Analytical Resources, LLC
Analytical Chemists and Consultants

26 June 2023

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

RE: AOC5 MR Phase 1

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

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

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

Associated Work Order(s)	Associated SDG ID(s)
23D0136	N/A

Susan Dunnihoo

Digitally signed by Susan Dunnihoo
Date: 2023.06.26 17:56:43 -07'00'

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

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

Analytical Resources, LLC

Susan Dunnihoo, Director, Client Services

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

Accredited in accordance with nelac
Cert# 100006-012

2 3D0 136

1 of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3992

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

Ship to: ARL
Attn: Sue Dumihoo
Shipper: Courier
Form filled out by: S. Replinger

Shipping Date: 4/6/23
Airbill Number: —
Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	SMS SVOCs	TOCI TS	SMS Metals	D/F	Archive		Comments / Instructions [Jar tag number(s)]
4.5.2023	1145	LDW23-SS1804	4	Sediment	x	x	x	x	x	x		
	1215	LDW23-SC1804	4		x		x			x		
	1605	LDW23-SS1804	4		x	x	x	x		x		
↓	1630	LDW23-SC1804	4	↓	x		x			x		
		Total Number of Containers	16	Purchase Order / Statement of Work # APS-110222-AOC5-ARL								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort		Print name:	
Signature:	Company: ARI LLC	Signature:	Company:
Company: Windward		Company:	
Date/Time: 4/6/23 1030	Date/Time: 04/06/23 1030	Date/Time:	Date/Time:

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

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

To be completed by Laboratory upon sample receipt:

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

2 3D0 136

1 of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3992

Project/Client Name: AOC 5 MR Phase 1 (LDW)
Project Number: 210075.01.02
Contact Name: Amara Vandervort
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Shipper: Courier
Form filled out by: S. Replinger

Shipping Date: 4/6/23
Airbill Number: —
Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	SMS SVOCs	TOC/TS	SMS metals	D/F	Archive		Comments / Instructions [Jar tag number(s)]
4.5.2023	1145	LDW23-SS1804	4	Sediment	x	x	x	x	x	x		
↓	1215	LDW23-SC1804	4	↓	x		x			x		
	1605	LDW23-SS1804-3	4		x	x	x	x		x		
↓	1630	LDW23-SC1804-3-AV	4	↓	x		x			x		
		Total Number of Containers	16	Purchase Order / Statement of Work #	APS-110222-AOC5-ARL							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort		Print name:	
Signature:	Company: ARI LLC	Signature:	Company:
Company: Windward		Company:	
Date/Time: 4/6/23 1030	Date/Time: 04/06/23 1030	Date/Time:	Date/Time:

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

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

To be completed by Laboratory upon sample receipt:

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

RE: 23D0136 - AOC5 receipts

Amara Vandervort <amarav@windwardenv.com>

Mon 4/10/2023 2:35 PM

To: Sue Dunnihoo <limsadm@arilabs.com>;Labdata <labdata@anchorqea.com>
Cc: Ali Judkins <ajudkins@anchorqea.com>;Anastasia Barr <anastasiab@windwardenv.com>

1 attachments (217 KB)

AOC5_Phase1_ARL_UnderStructure_040523_v2.pdf;

Hi,
We checked the field collection forms and updated the COC. Please use the attached updated version of the COC.

Amara Vandervort
Associate
Direct line: 206-812-5415
E-mail: amarav@windwardenv.com | www.windwardenv.com
200 First Avenue West, Suite 500 | Seattle, WA 98119

From: Amara Vandervort
Sent: Monday, April 10, 2023 1:51 PM
To: Sue Dunnihoo <limsadm@arilabs.com>; Labdata <labdata@anchorqea.com>
Cc: Ali Judkins <ajudkins@anchorqea.com>; Anastasia Barr <anastasiab@windwardenv.com>
Subject: RE: 23D0136 - AOC5 receipts

Hello,

One of these sample sets should be for location 1803. Were the jars both labeled as 1804 or did one set happen to be labeled as 1803? I am checking with the field crew to confirm times on their end.

Amara Vandervort
Associate
Direct line: 206-812-5415
E-mail: amarav@windwardenv.com | www.windwardenv.com
200 First Avenue West, Suite 500 | Seattle, WA 98119

From: Sue Dunnihoo <limsadm@arilabs.com>
Sent: Friday, April 7, 2023 9:20 AM
To: Labdata <labdata@anchorqea.com>
Cc: Ali Judkins <ajudkins@anchorqea.com>; Amara Vandervort <amarav@windwardenv.com>; Anastasia Barr <anastasiab@windwardenv.com>
Subject: 23D0136 - AOC5 receipts

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Please find attached for your review.

Did you really want two samples at different times with the same name?

Sue

*** I will be out of the office April 24-25 ****

**** NOTE - TATs are running 3 to 6 weeks depending on analysis ****

Courier requests cannot be guaranteed for same day pick-ups or deliveries. Please schedule in advance.

****Please email you bottle requests to your project manager several days before needed to give staff time to assemble the kit - we may not be able to accommodate your request as a walk-in****

Susan D. Dunnihoo

She/her/hers

Client Services Director

Analytical Resources, LLC

Analytical Chemists and Consultants

4611 South 134th Place, Suite 100

Tukwila, WA 98168

(206) 695-6207 office

sue.dunnihoo@arilabs.com

www.arilabs.com

As some of our staff are still working remotely we have changed sample receiving hours to 8 to 5 until further notice. Thank you for understanding.

Versions have been updated for SW-846 8260 and 8270 analyses, see our post explaining the details.

"Don't wish it were easier. Wish you were better." - Jim Rohn

Before printing, think about ENVIRONMENTAL responsibility

How was your customer experience?
Please take our 5 minute Online Customer Survey

Analytical Resources, LLC
Analytical Chemists and Consultants

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If you have received this correspondence in error, please notify sender and delete this message immediately. Thank you.

Analytical Resources, LLC

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward 4/6/23 Project Name: AOCS MR Phase I (LDW)

COC No(s): 3992 NA Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 230136 Tracking No: NA

Preliminary Examination Phase:

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

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1312 5.9

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90508

Cooler Accepted by: Date: 04/06/23 Time: 1030

Complete custody forms and attach all shipping documents

Log-In Phase:

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

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

Samples Logged by: Date: 4/6/23 Time: 1554 Labels checked by:

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

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

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	06/26/2023 15:44

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
23D0136-01	LDW23-SS1804	Solid	04/05/23 11:45	04/06/23 10:30
23D0136-02	LDW23-SC1804	Solid	04/05/23 12:15	04/06/23 10:30
23D0136-03	LDW23-SS1803	Solid	04/05/23 16:05	04/06/23 10:30
23D0136-04	LDW23-SC1803	Solid	04/05/23 16:30	04/06/23 10:30

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	26-Jun-2023 15:44

Case Narrative

Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Work Order: 23D0136

Sample receipt

Samples as listed on the preceding page were received 06-Apr-2023 10:30 under ARI work order 23D0136. For details regarding sample receipt, please refer to the Cooler Receipt Form. Samples were frozen on receipt to preserve holding times.

On 10-April-2023, instructions were received to update sample IDs per the enclosed ROC.

Semivolatiles - EPA Method SW8270E

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

Semivolatiles - EPA Method SW8270E-SIM

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements, with accepted excursions outside the 20% window. Associated positive results have been "Q"-flagged.

SLE0466-ICV1 showed benzoic acid and pentachlorophenol low of limits. SLE0466-LCV2 was run to verify benzoic acid response, and the MRL/LOD adjusted to the verified level of 200 ug/kg (initial) as the LCV at 80 ug/kg had not been analyzed.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries were within control limits. The relative percent difference (RPD) for benzoic acid was outside control limits and flagged on the summary sheet. As the MS/MSD recoveries and RPD were within limits, no further action was taken.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	26-Jun-2023 15:44

Case Narrative

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

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

Pesticides - EPA Method SW8081B (Hexachlorobenzene)

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits. Hexabromobiphenyl does not apply to the target compound and outliers are not addressed.

The surrogate percent recoveries were within control limits.

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

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

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

PCB Aroclors - EPA Method SW8082A

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen. The analyst noted extract were diluted 5x to mitigate matrix interference causing internal standard failures.

SLE0029-CCV3 showed response for tetra-chloro-m-xylene (TCMX) exceeding the upper limit on the second column. As TCMX is used internally as an indicator of blow-down efficiency and is not required by the method, no corrective action was required.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

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

The analyst noted identification of aroclors were made using the best possible fit, as there were miscellaneous interfering peaks throughout the runs inflating results and obscuring patterns.

Total Metals - EPA Method 6020B

The sample(s) were digested and analyzed within the recommended holding times for samples stored frozen.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	26-Jun-2023 15:44

Case Narrative

SLE0209-CAL4 was noted as slightly noisy for indium-1, with %R and analytes okay. SLE0209- IFA showed chromium-53 high.

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

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

The batch BLD0687 duplicate (DUP) relative percent difference (RPD) were within advisory control limits, reported under work order 23D0394.

The batch BLD0687 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPD) were within advisory control limits, reported under work order 23D0394.

Total Mercury - EPA Method 7471B

The sample(s) were digested and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements.

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

The blank spike (BS/LCS) percent recovery was within control limits.

The batch BLD0688 duplicate (DUP) relative percent difference (RPD) were within advisory control limits, defaulted to +/- the reporting limit due to the low level and "L"-flagged, reported under work order 23D0394.

The batch BLD0688 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPD) were within advisory control limits, reported under work order 23D0394.

Wet Chemistry (Total Organic Carbon and Total Solids)

The sample(s) were prepared and analyzed within the recommended holding times for samples stored frozen.

Initial and continuing calibrations were within method requirements.

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

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

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

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

Dioxin/Furans - EPA Method 1613

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen. Analysis was performed using an application specific column developed by Restek. The RTX-Dioxin2 column has unique isomer separation for the 2378-TCDF, eliminating the need for confirmation analysis.

The standard SLE0060-CCV1 had recovery for 13C12-1,2,3,6,7,8-HxCDD (81.4%) below the control limit.

Labeled internal standard areas were within limits.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	26-Jun-2023 15:44

Case Narrative

The cleanup surrogate percent recoveries were within control limits.

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

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

The batch BLD0657 duplicate (DUP) relative percent differences (RPD) for OCDD and OCDF were outside advisory control limits and flagged on the summary sheet, reported under work order 23D0063.

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

QUALIFIERS AND NOTES

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

LDW23-SS1804

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 A	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/18/23 11:16	File ID:	NT1005052311.D
% Solids:	49.34	Preparation:	EPA 3546 (Microwave)	Analyzed:	05/05/23 17:15
Batch:	BLD0329	Sequence:	SLE0101	Initial/Final:	20.29 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GE00012
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	1470		4.4	20.0
106-44-5	4-Methylphenol	1	22.5		7.4	20.0
91-20-3	Naphthalene	1	18.7	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	13.3	J	4.5	20.0
208-96-8	Acenaphthylene	1	12.6	J	6.2	20.0
131-11-3	Dimethylphthalate	1	7.7	J	4.4	20.0
83-32-9	Acenaphthene	1	14.9	J	5.2	20.0
132-64-9	Dibenzofuran	1	17.2	J	14.1	20.0
86-73-7	Fluorene	1	21.5		14.6	20.0
85-01-8	Phenanthrene	1	86.7		8.7	20.0
120-12-7	Anthracene	1	53.3		7.2	20.0
206-44-0	Fluoranthene	1	268		6.1	20.0
129-00-0	Pyrene	1	232		5.7	20.0
85-68-7	Butylbenzylphthalate	1	19.7	J	9.4	20.0
56-55-3	Benzo(a)anthracene	1	110		6.0	20.0
218-01-9	Chrysene	1	203		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	185		5.5	49.9
	Benzofluoranthenes, Total	1	318		10.0	40.0
50-32-8	Benzo(a)pyrene	1	113		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	62.9		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	23.5		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	80.5		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.17	384	51.2	27 - 120	
Phenol-d5	749.17	456	60.8	29 - 120	
2-Chlorophenol-d4	749.17	499	66.6	31 - 120	
1,2-Dichlorobenzene-d4	499.45	310	62.0	32 - 120	
Nitrobenzene-d5	499.45	355	71.2	30 - 120	
2-Fluorobiphenyl	499.45	368	73.8	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1804

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

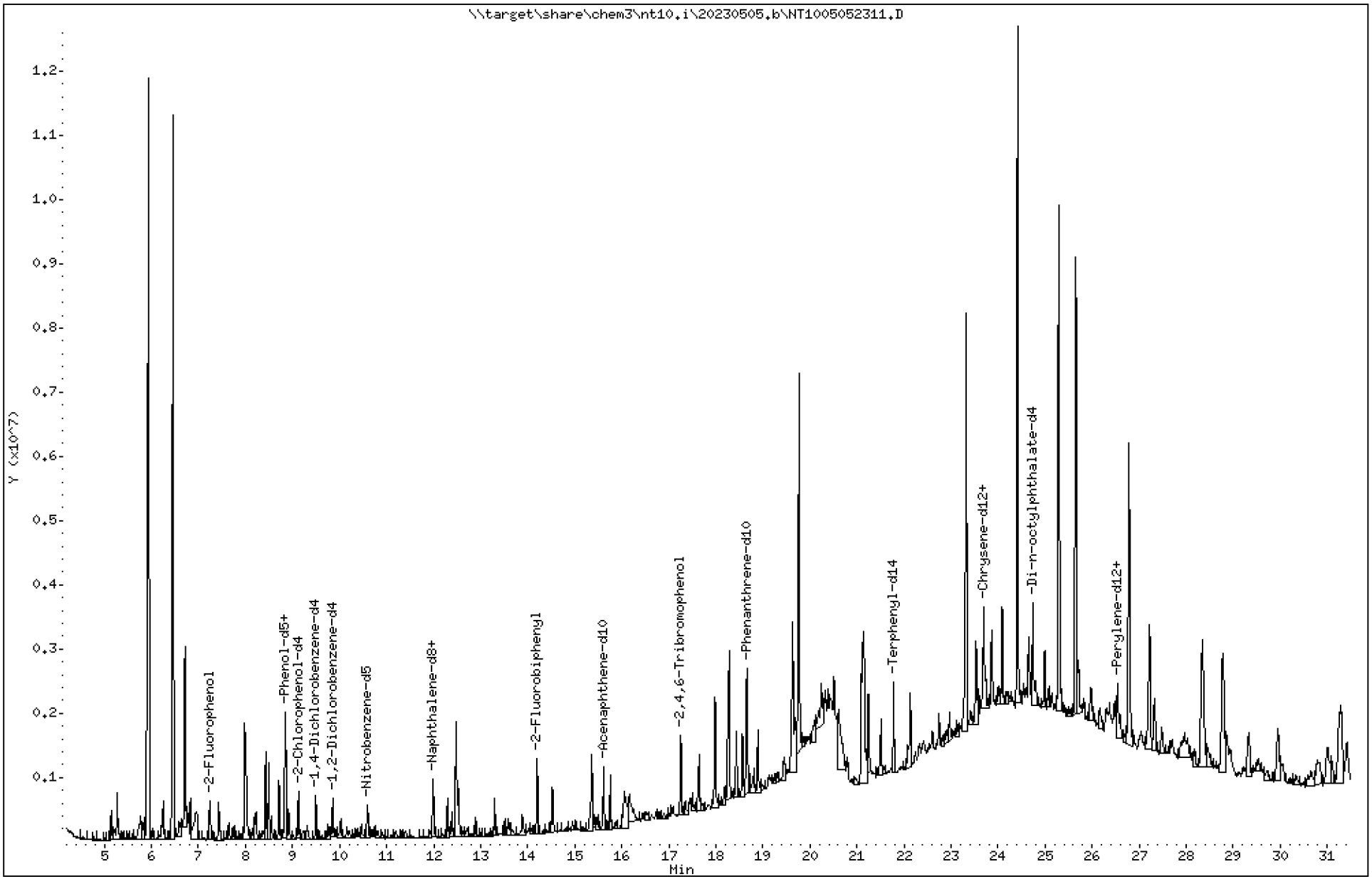
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 A	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/18/23 11:16	File ID:	NT1005052311.D
% Solids:	49.34	Preparation:	EPA 3546 (Microwave)	Analyzed:	05/05/23 17:15
Batch:	BLD0329	Sequence:	SLE0101	Initial/Final:	20.29 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GE00012
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.17	642	85.7	24 - 134	
p-Terphenyl-d14	499.45	372	74.4	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D
Date : 05-MAY-2023 17:15
Client ID:
Sample Info: 23D0136-01

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



23D0136 CLPLIKE (Rev0) - Page 16 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

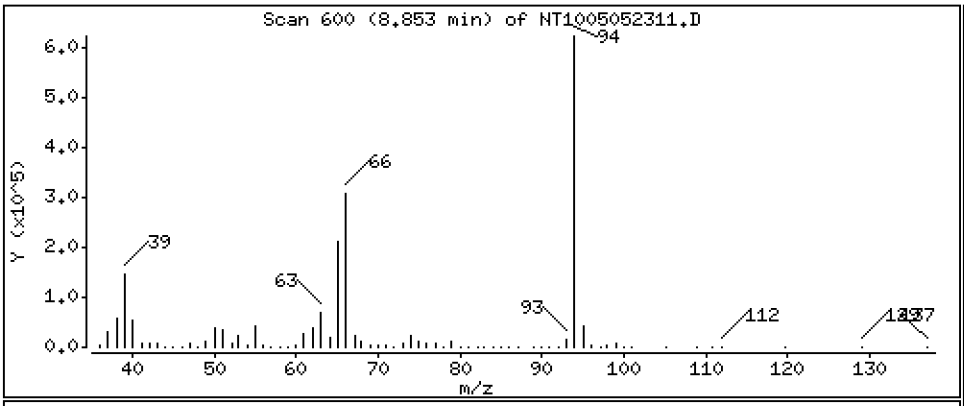
Operator: VTS

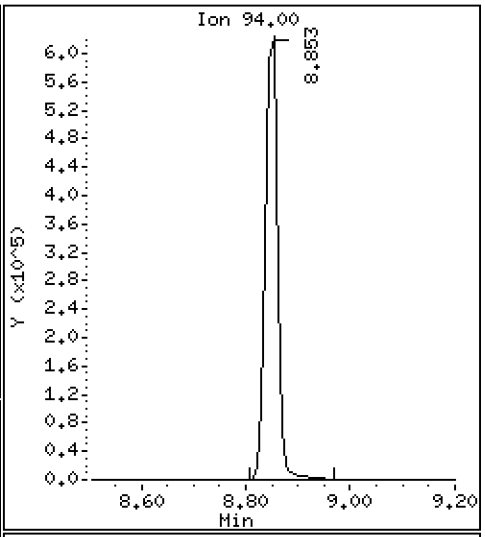
Column phase: ZB-5msi

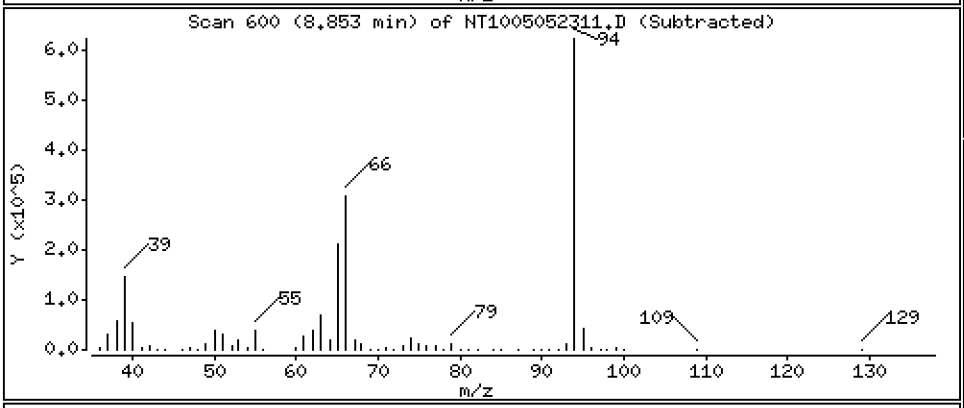
Column diameter: 0.25

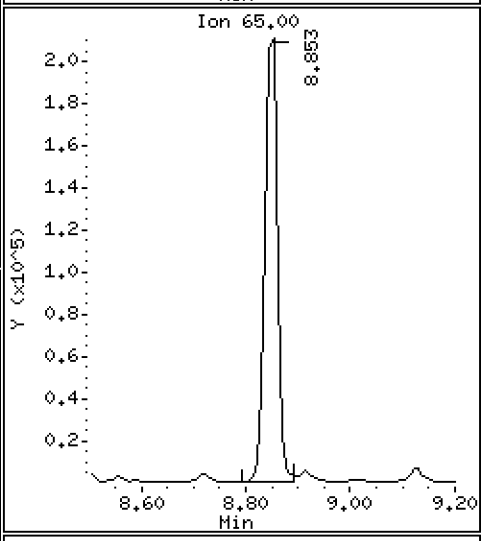
3 Phenol

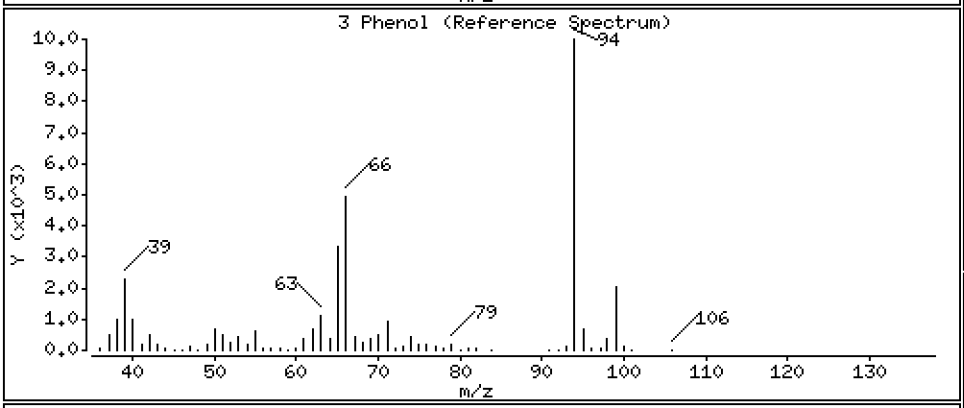
Concentration: 14.72 ug/mL

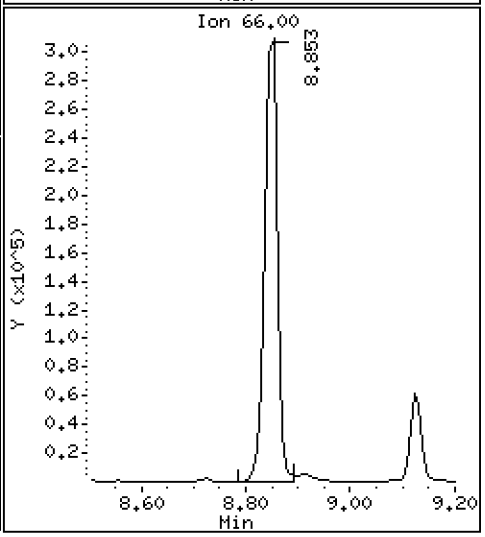


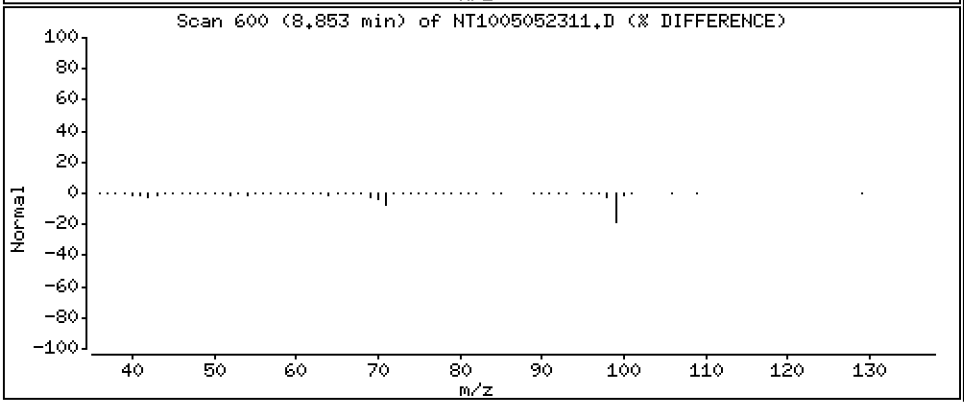












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

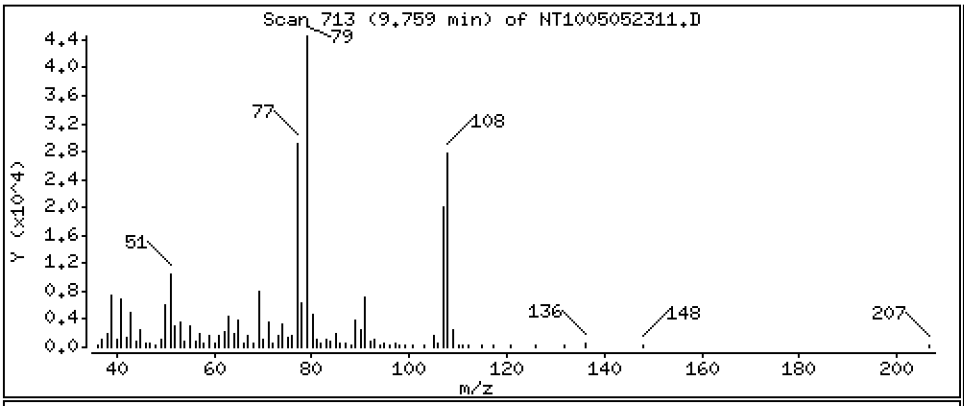
Operator: VTS

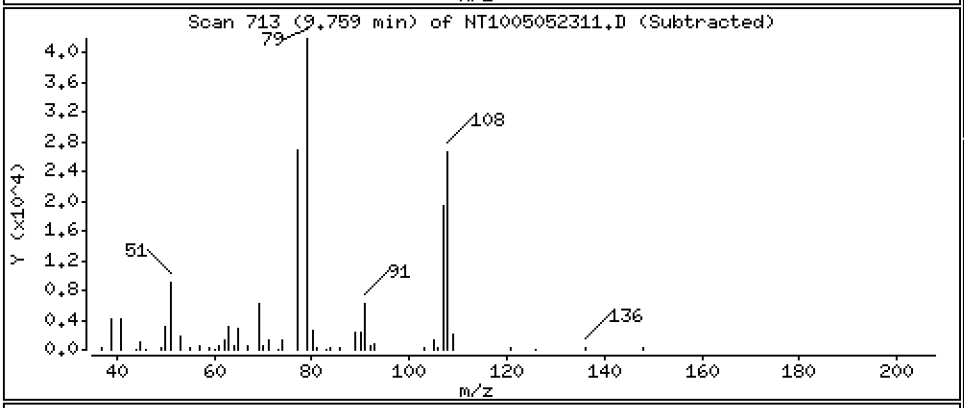
Column phase: ZB-5msi

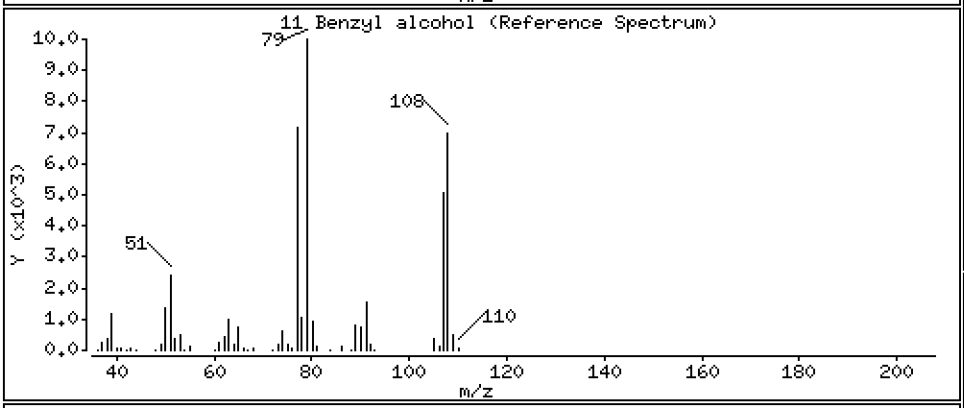
Column diameter: 0.25

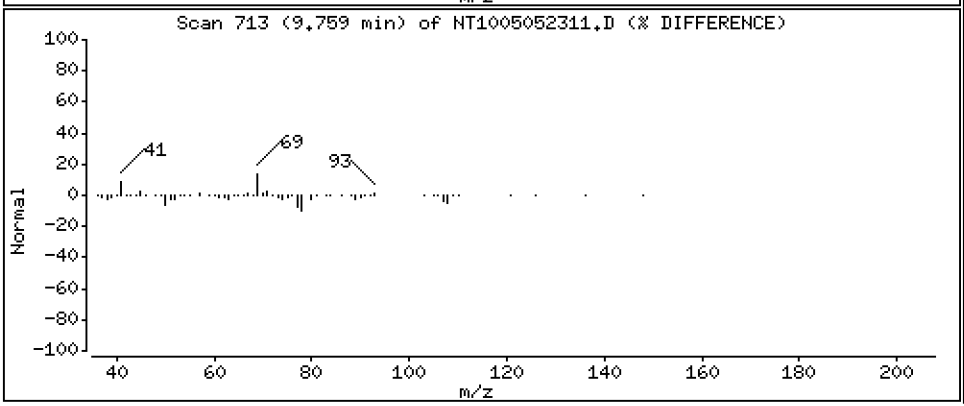
11 Benzyl alcohol

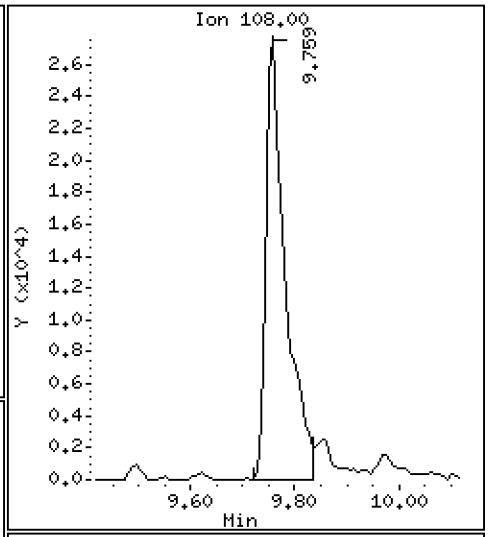
Concentration: 2.305 ug/mL

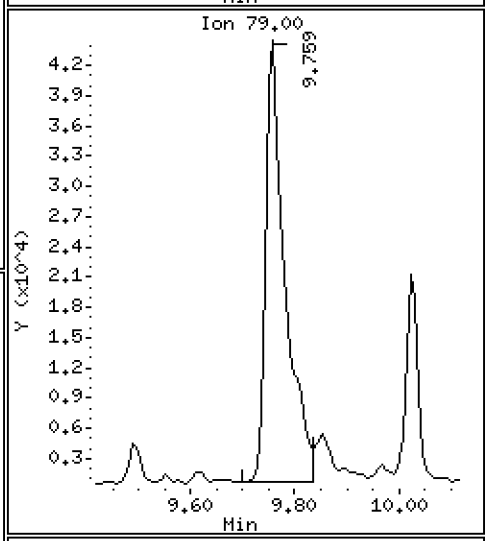


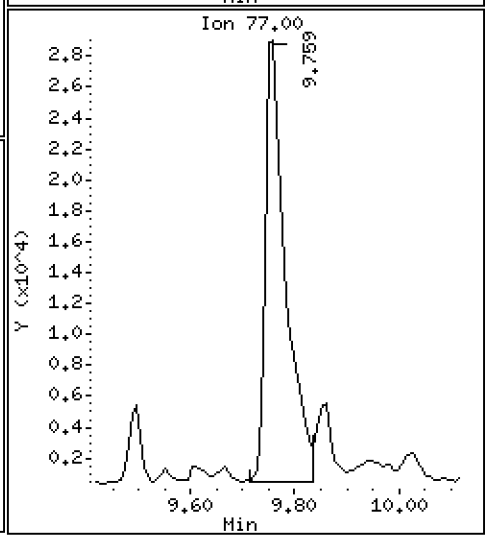












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

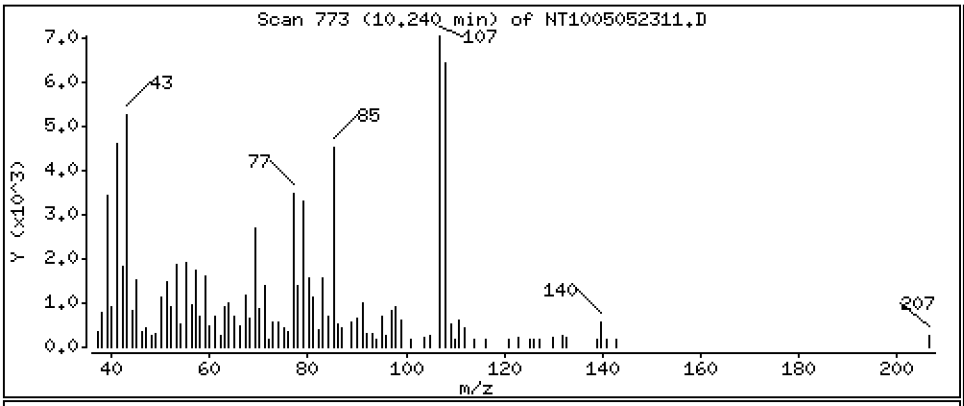
Operator: VTS

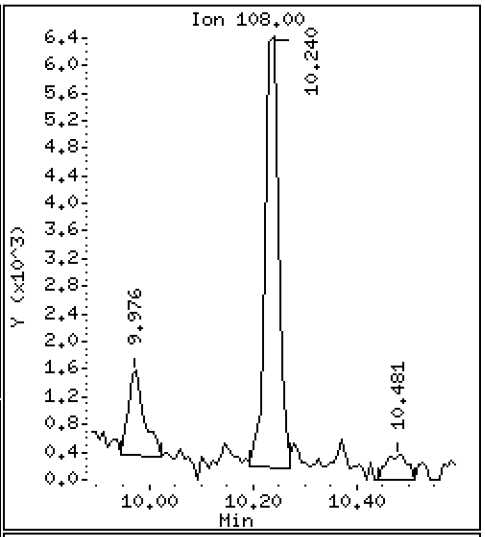
Column phase: ZB-5msi

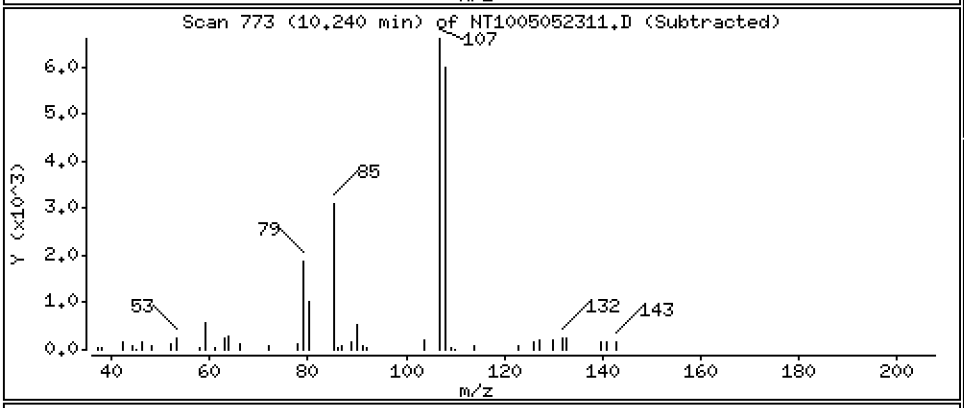
Column diameter: 0.25

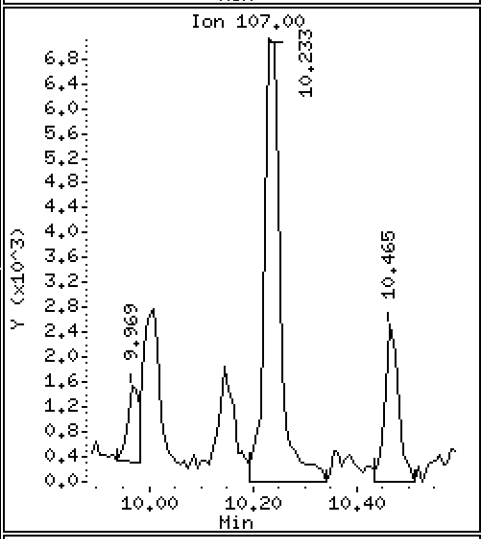
15 4-Methylphenol

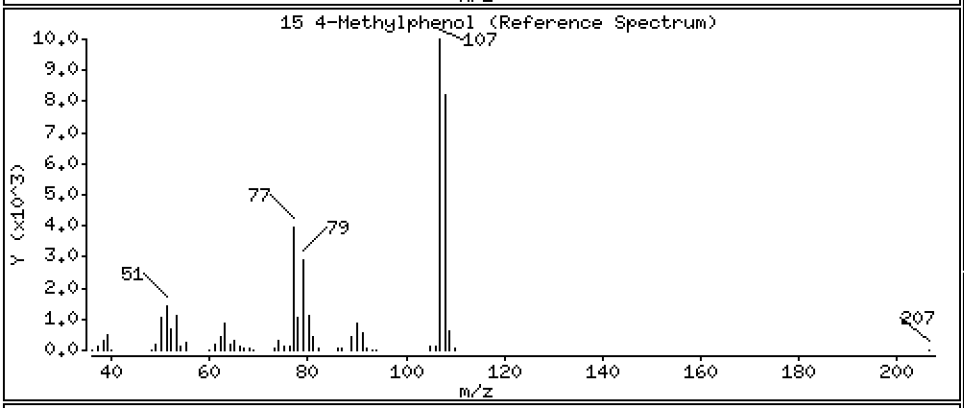
Concentration: 0.2254 ug/mL

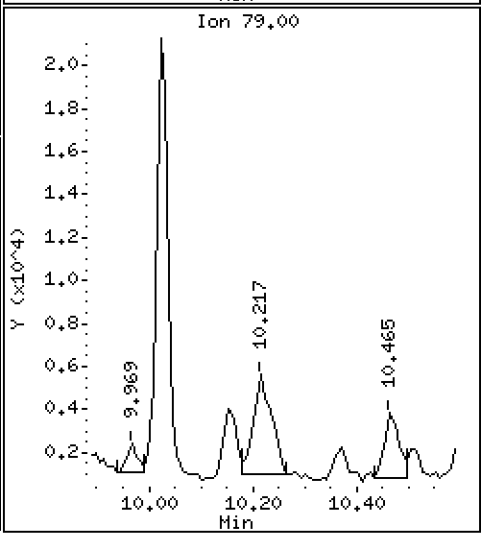


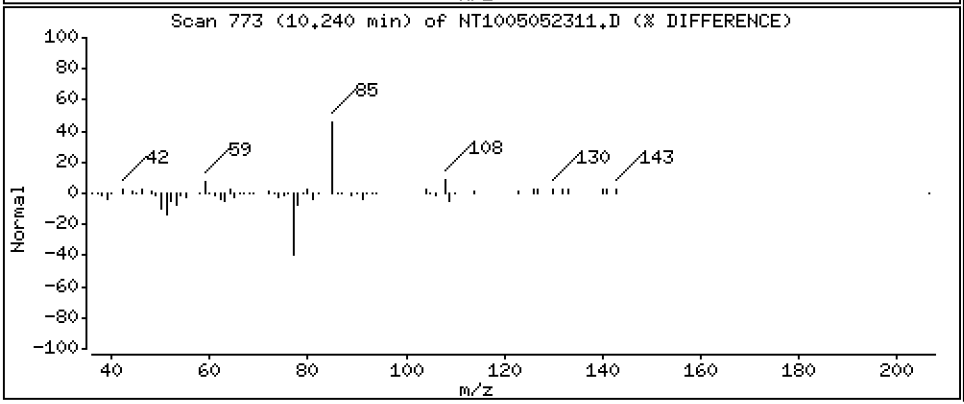












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

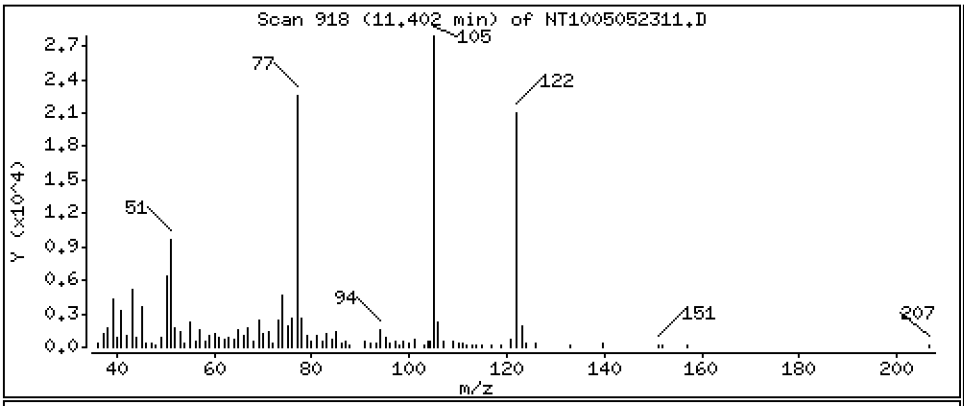
Operator: VTS

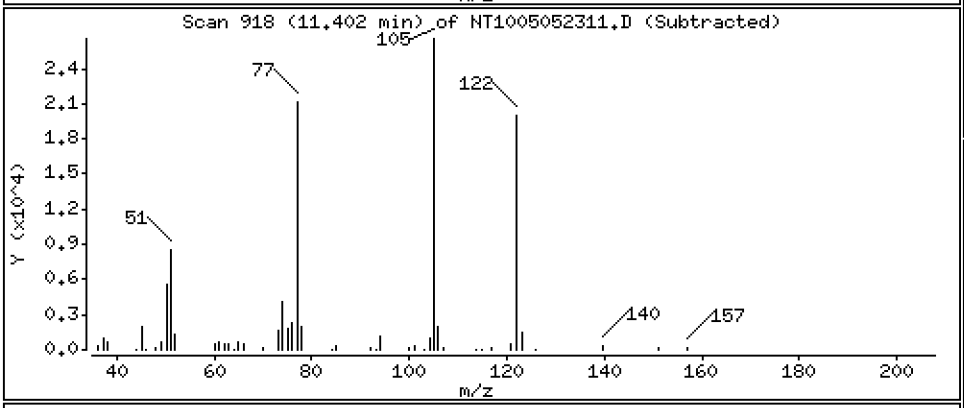
Column phase: ZB-5msi

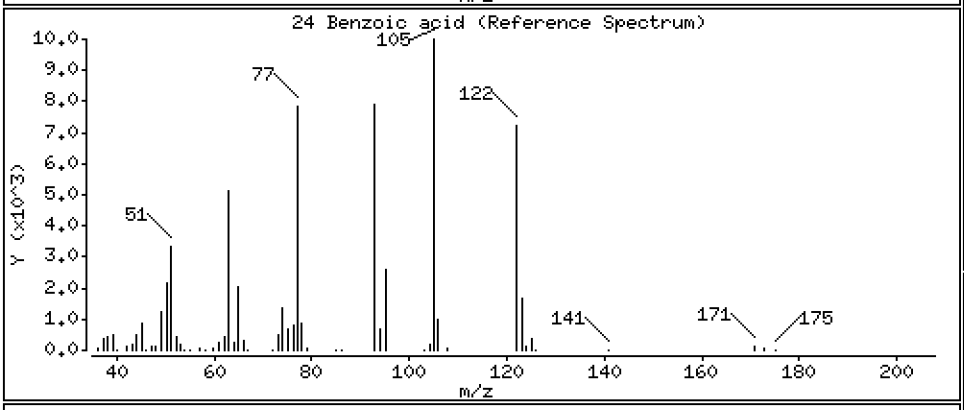
Column diameter: 0.25

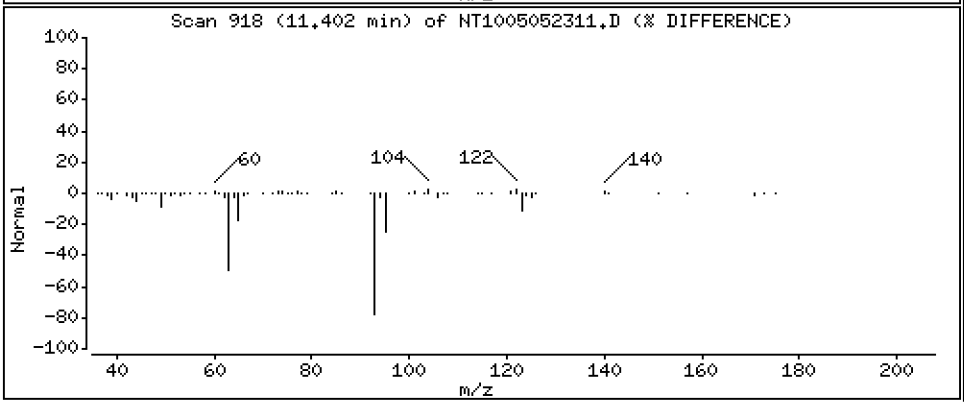
24 Benzoic acid

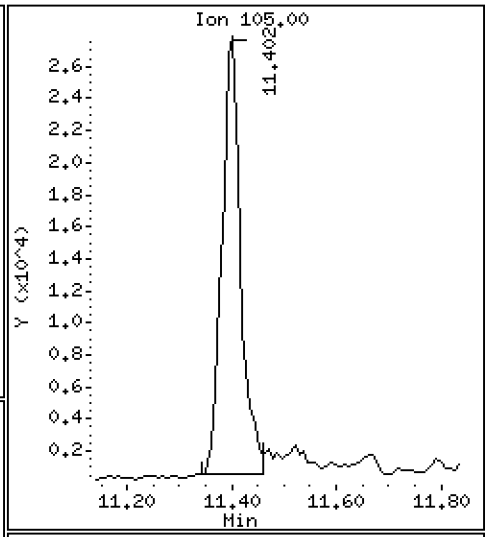
Concentration: 1.478 ug/mL

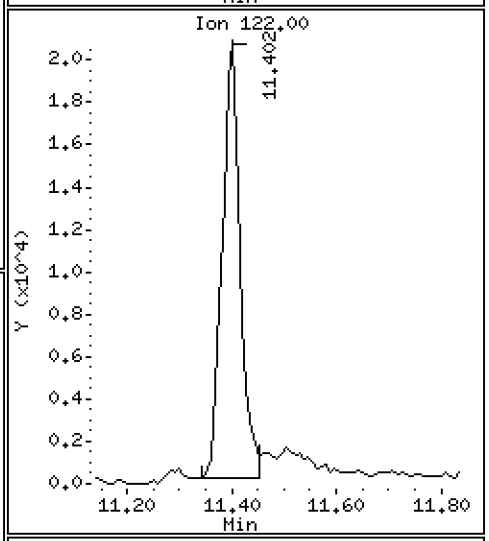


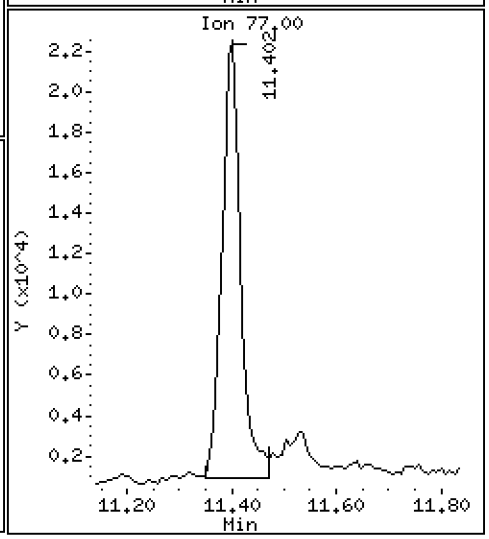












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

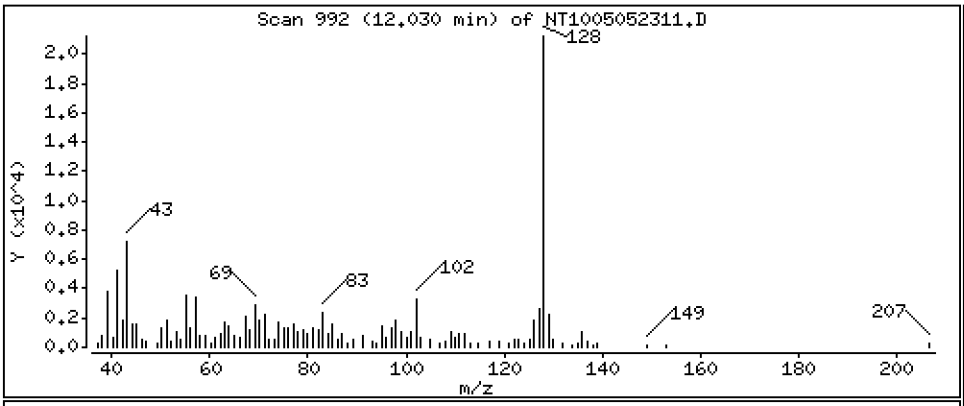
Operator: VTS

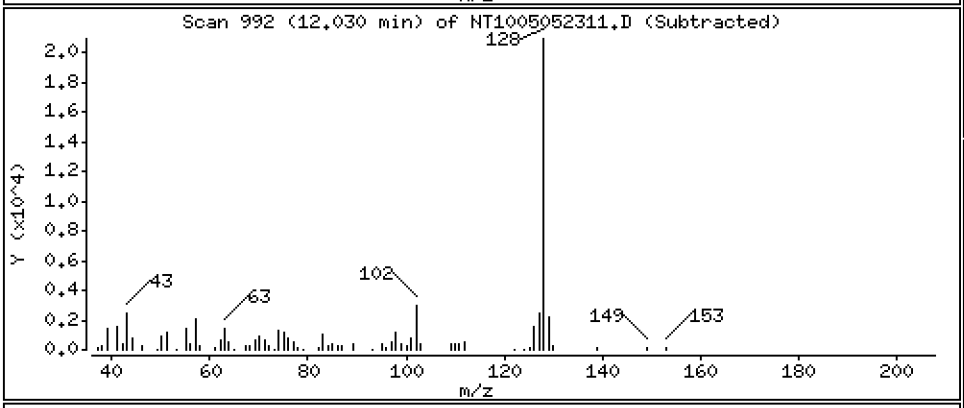
Column phase: ZB-5msi

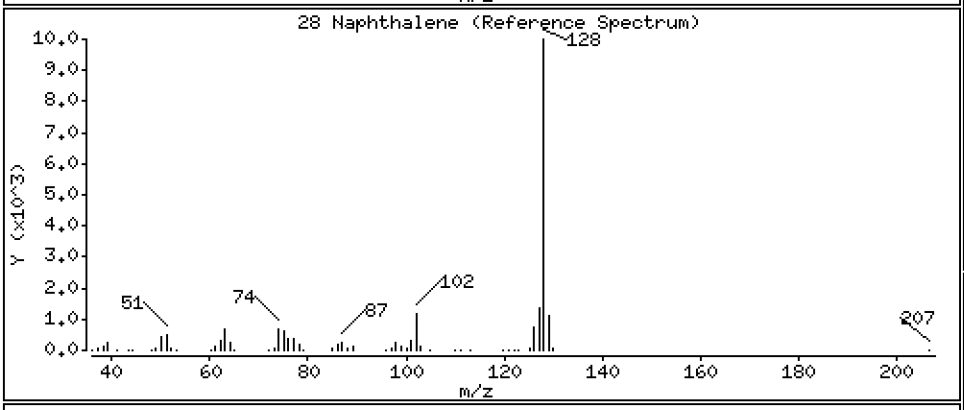
Column diameter: 0.25

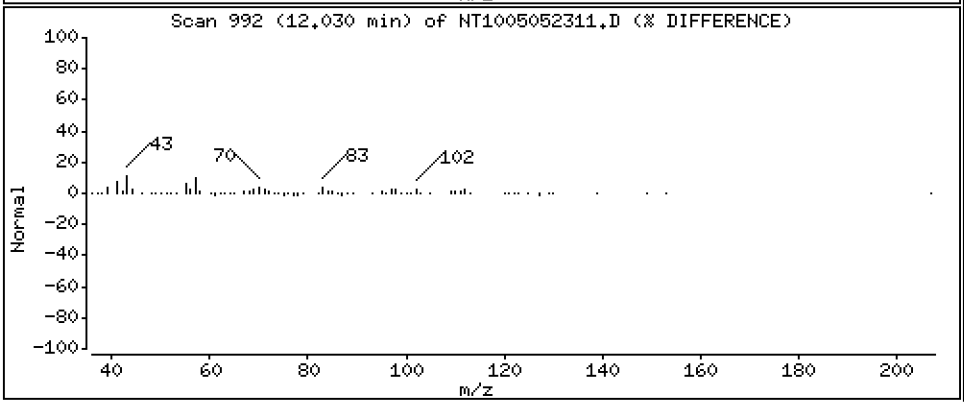
28 Naphthalene

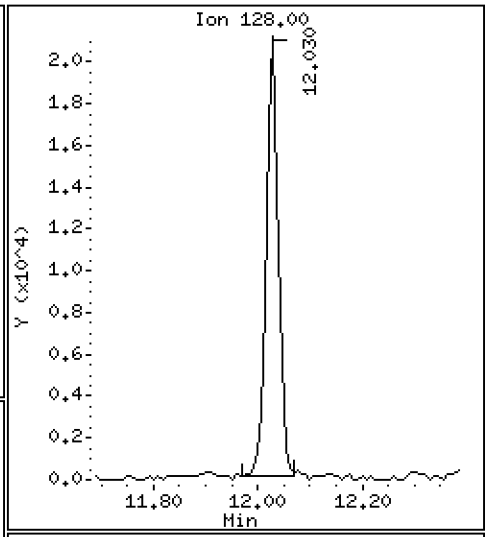
Concentration: 0.1874 ug/mL

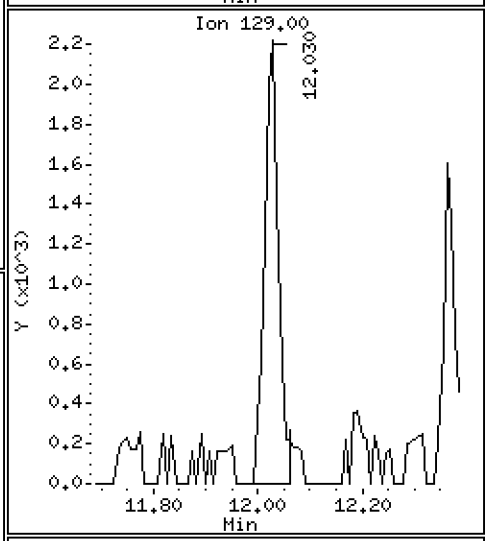


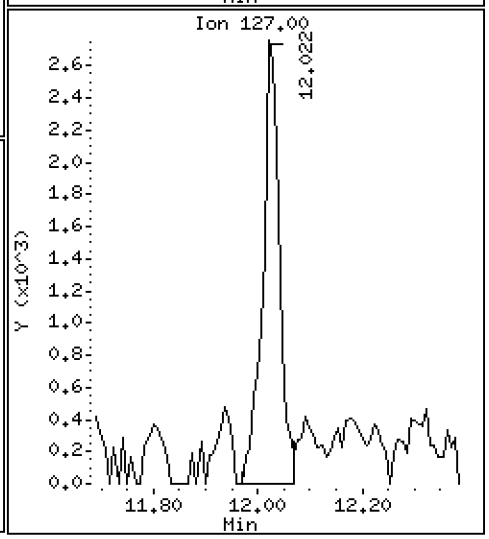












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

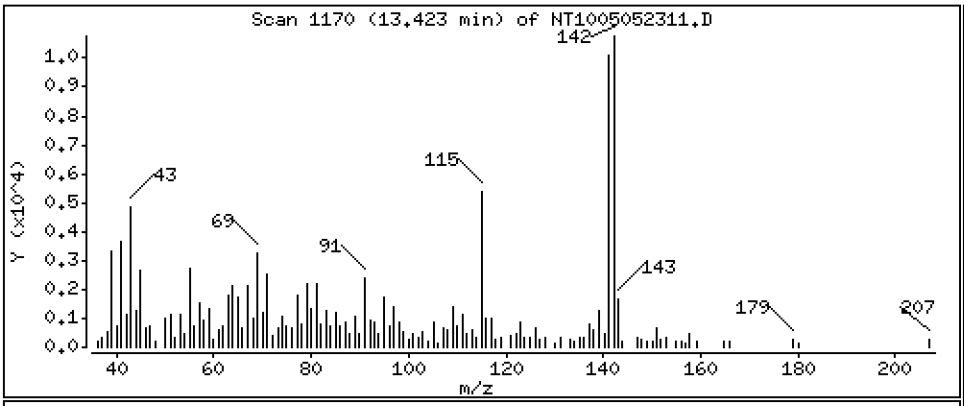
Operator: VTS

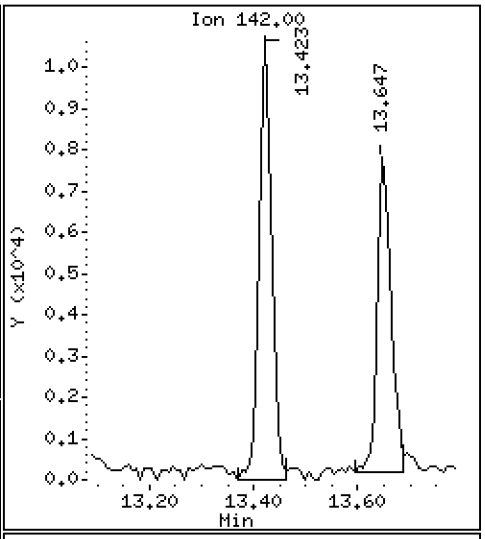
Column phase: ZB-5msi

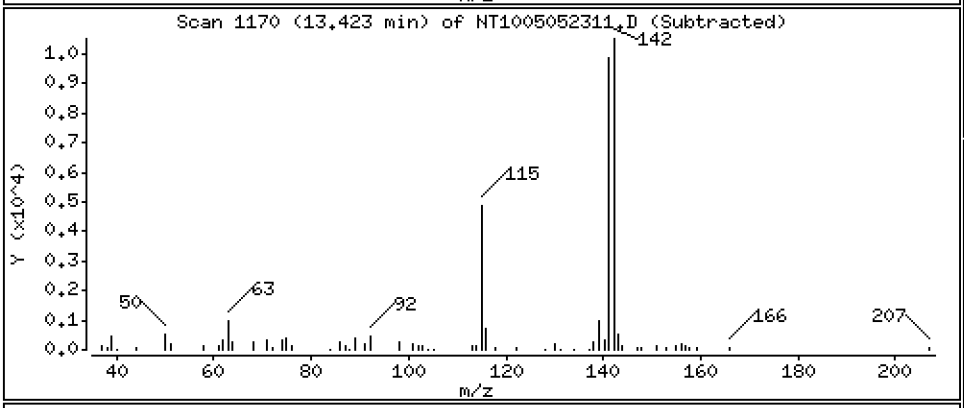
Column diameter: 0.25

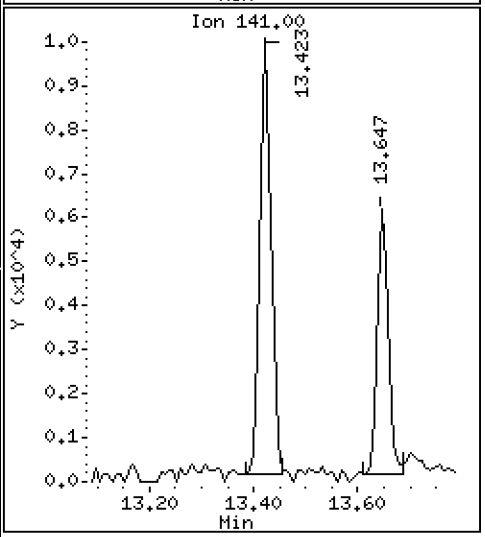
32 2-Methylnaphthalene

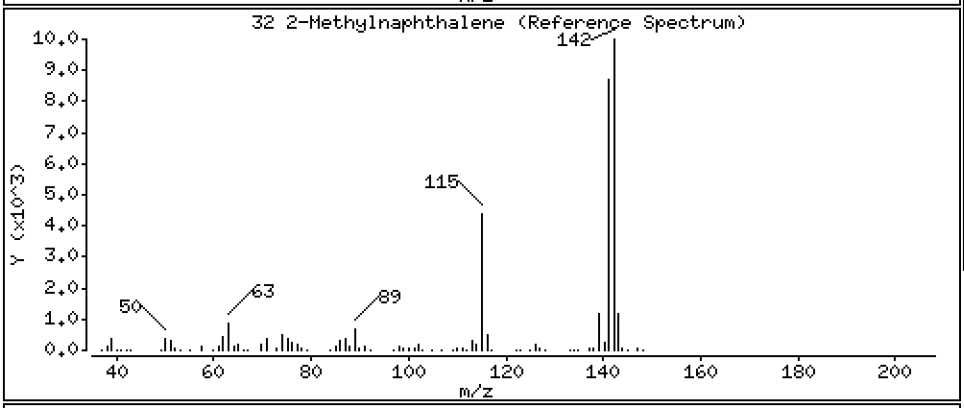
Concentration: 0.1333 ug/mL

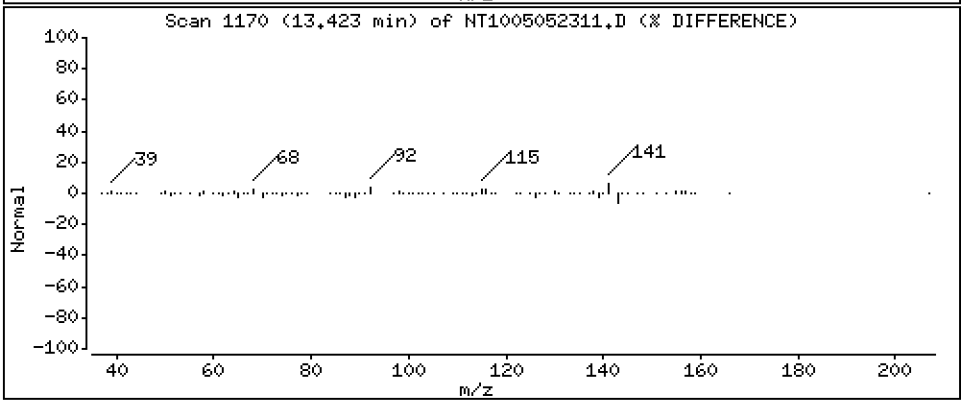












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

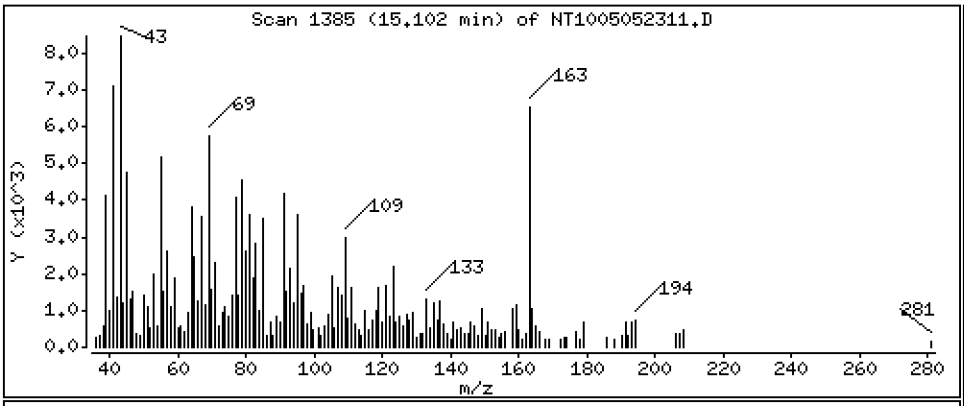
Operator: VTS

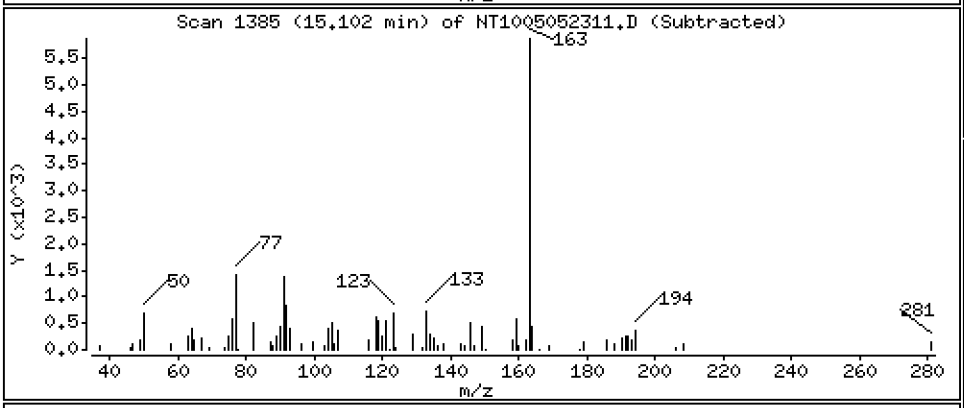
Column phase: ZB-5msi

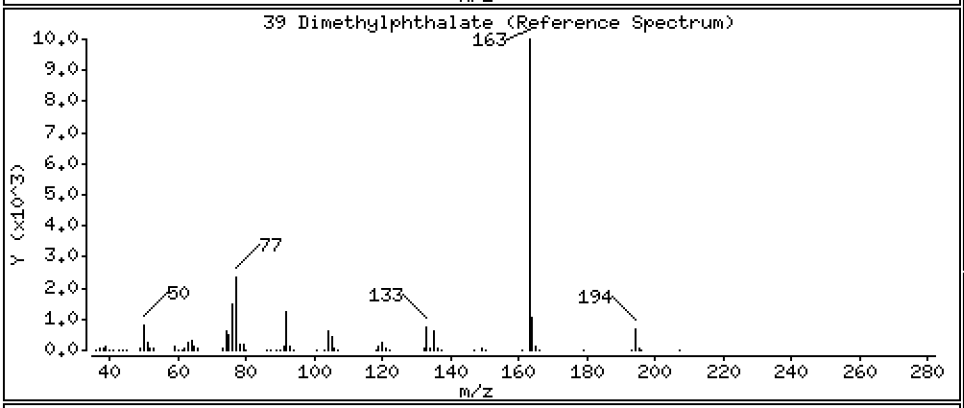
Column diameter: 0.25

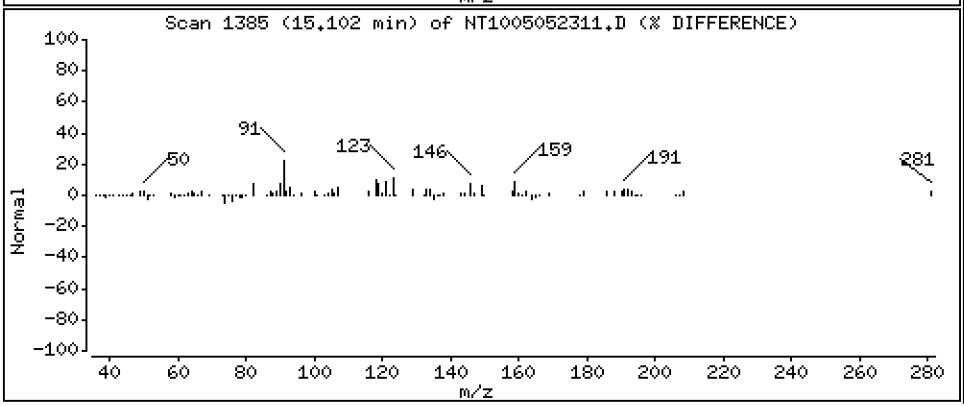
39 Dimethylphthalate

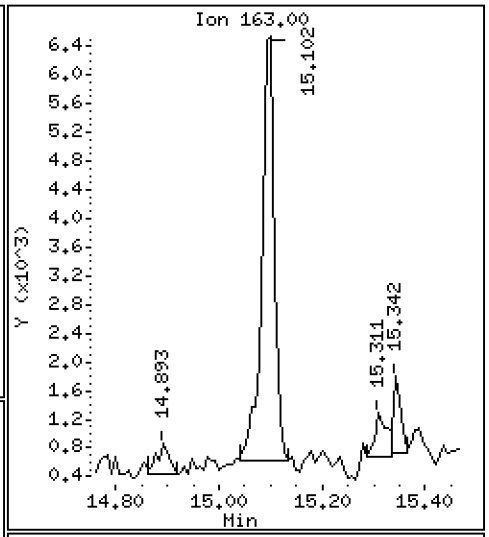
Concentration: 0.07716 ug/mL

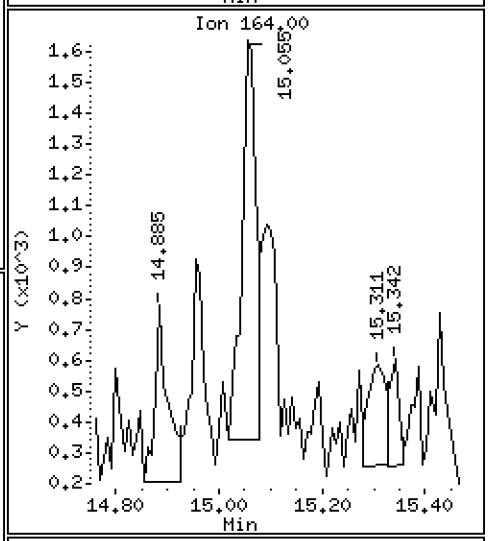


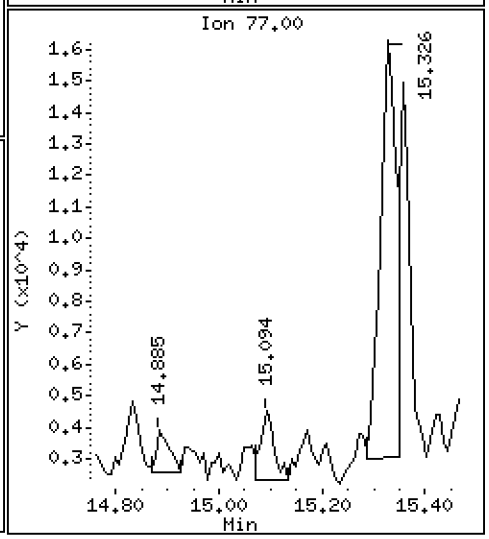












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

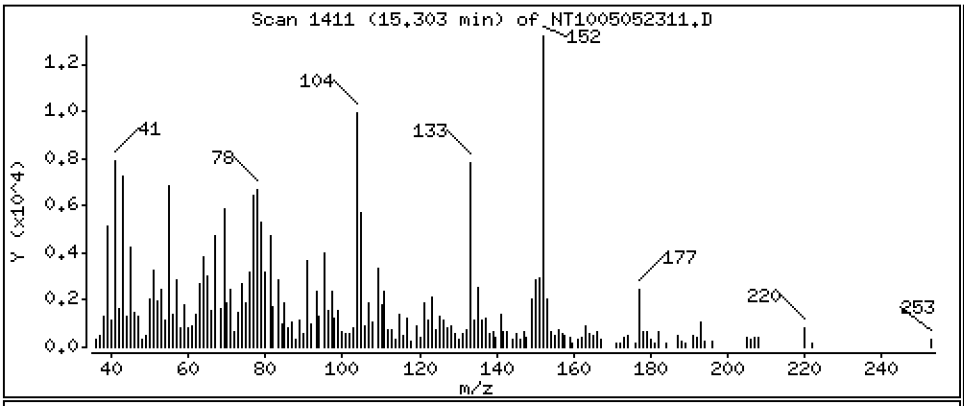
Operator: VTS

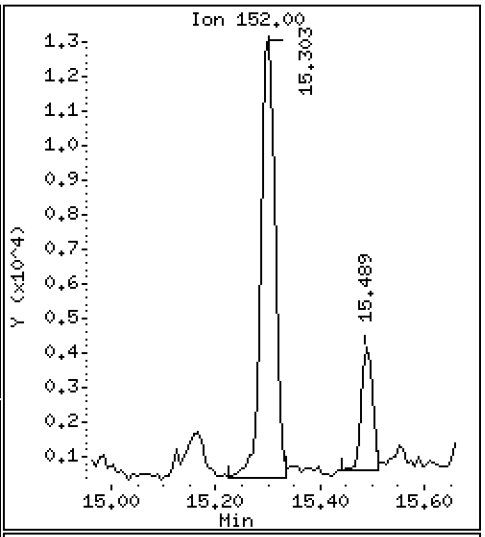
Column phase: ZB-5msi

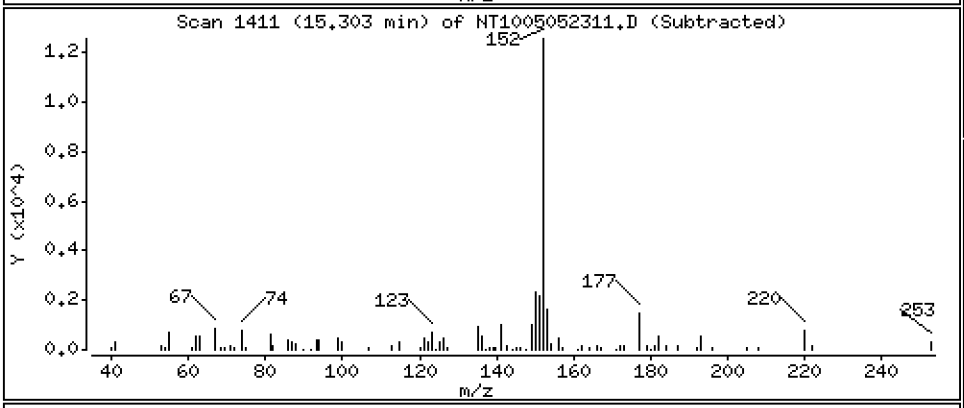
Column diameter: 0.25

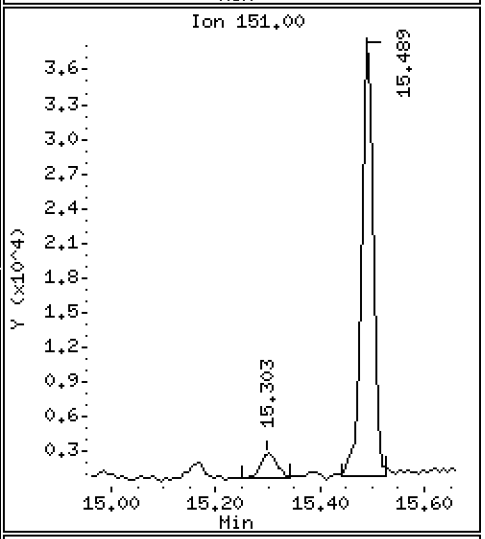
40 Acenaphthylene

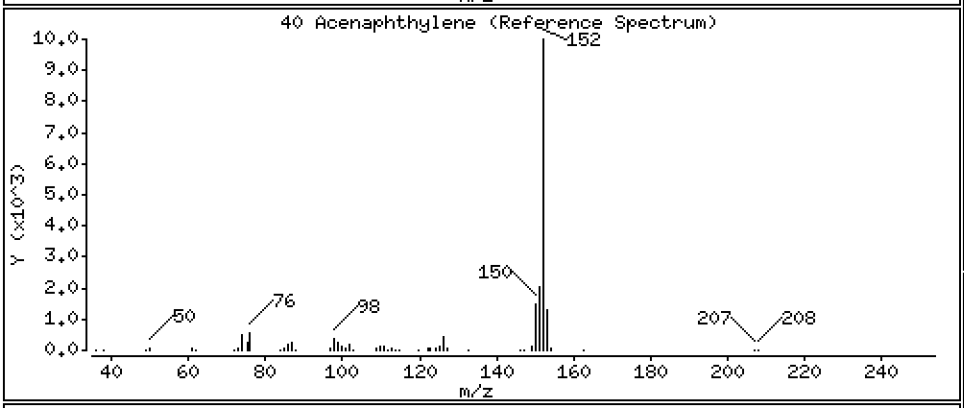
Concentration: 0.1260 ug/mL

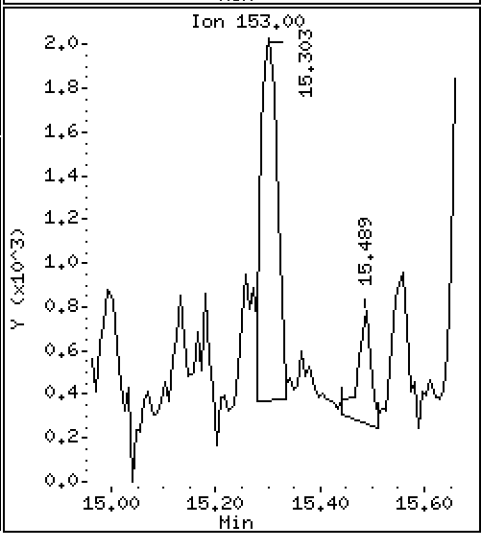


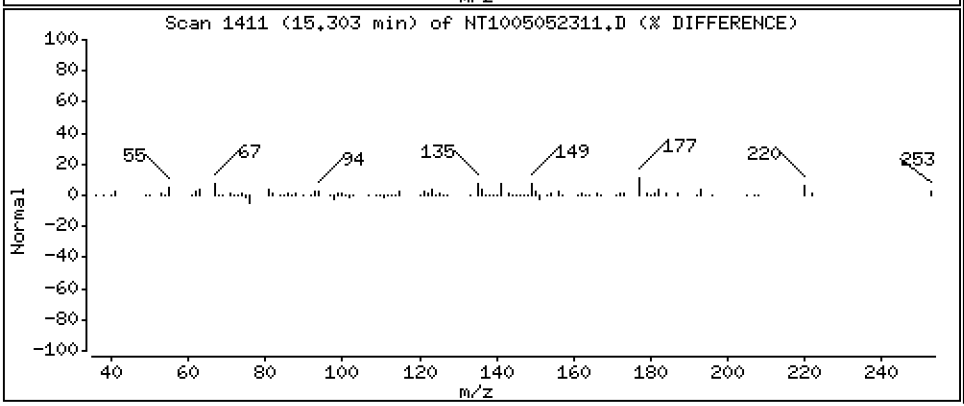












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

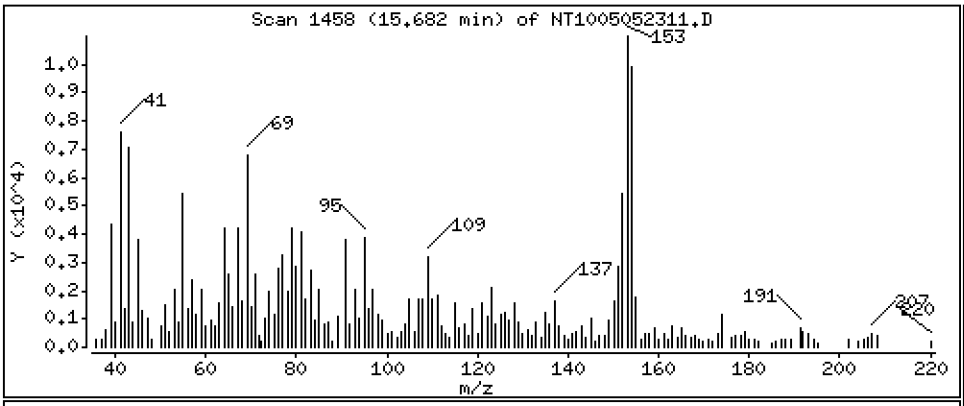
Operator: VTS

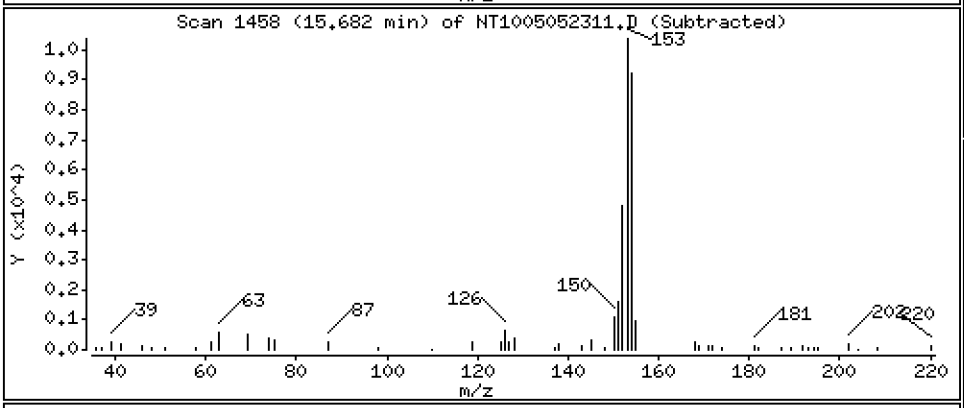
Column phase: ZB-5msi

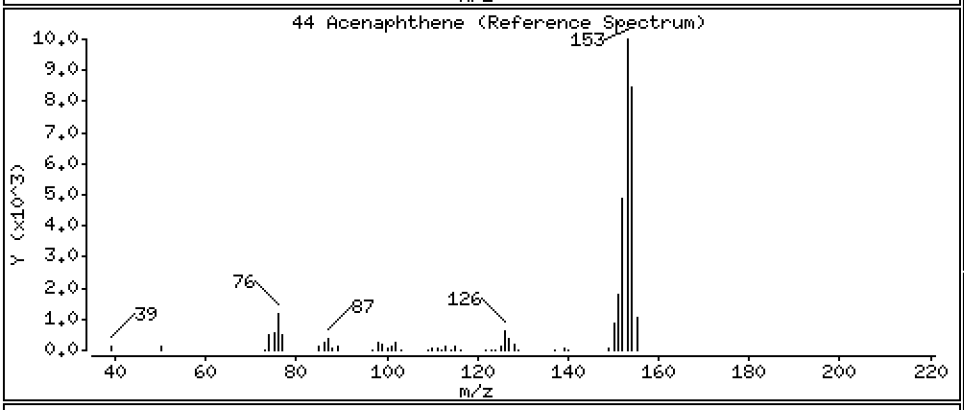
Column diameter: 0.25

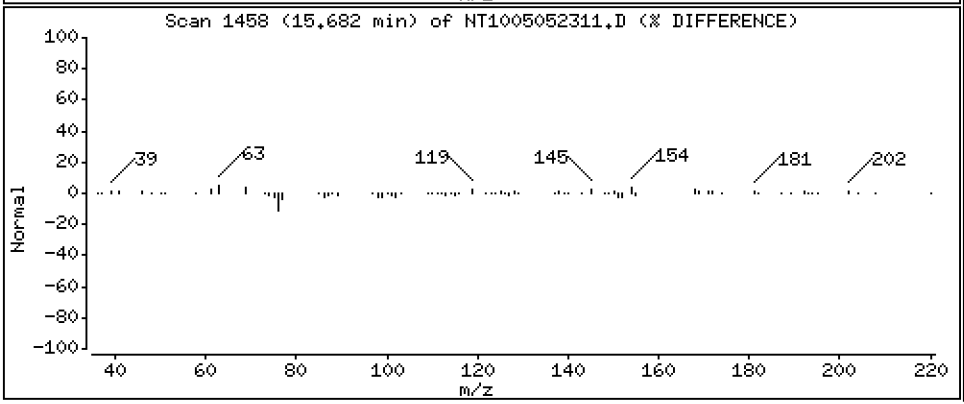
44 Acenaphthene

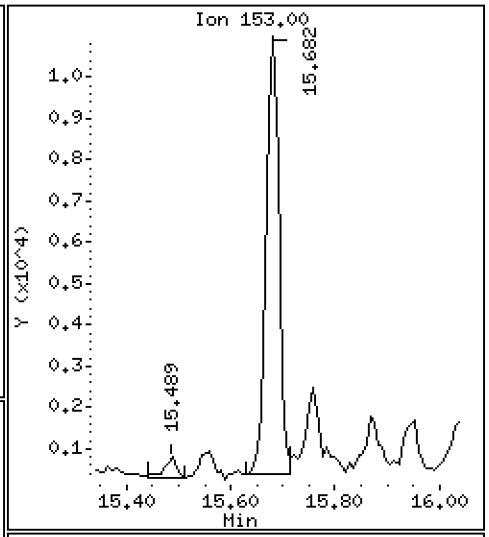
Concentration: 0.1492 ug/mL

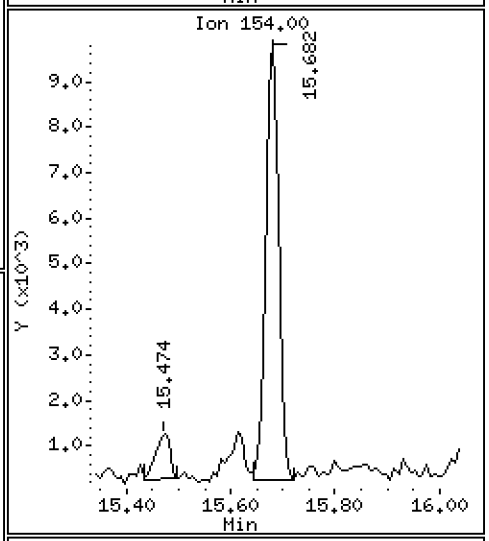


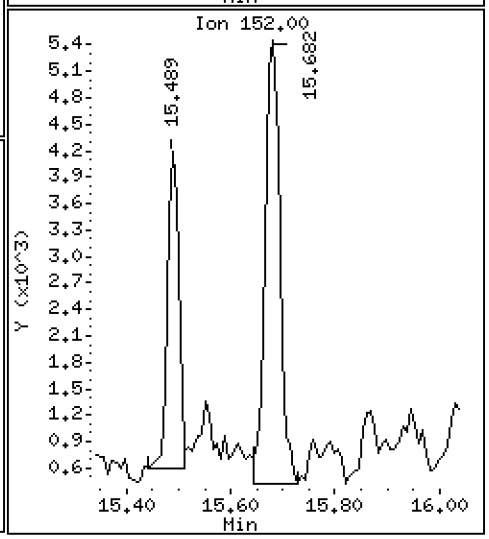












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

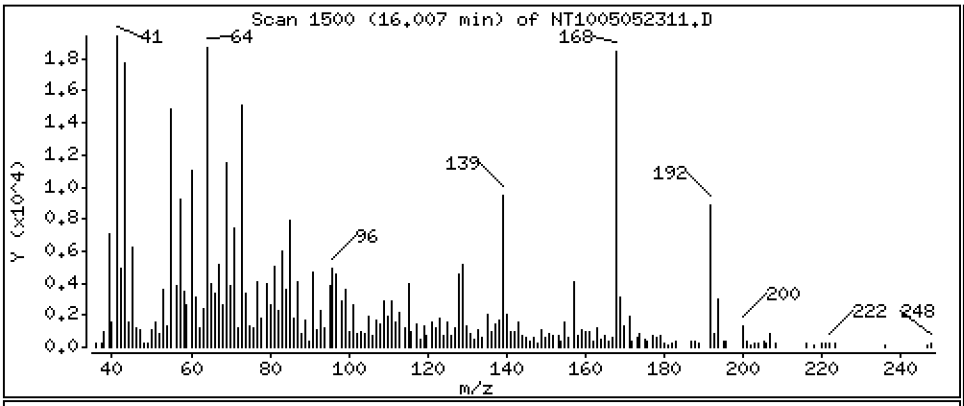
Operator: VTS

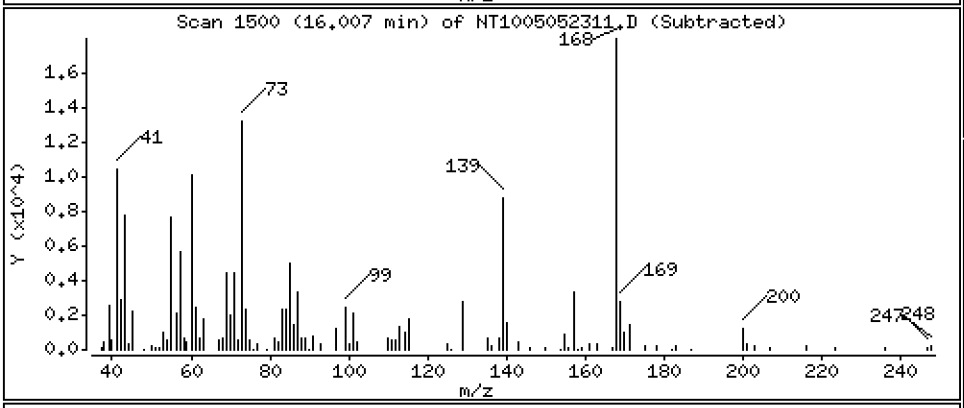
Column phase: ZB-5msi

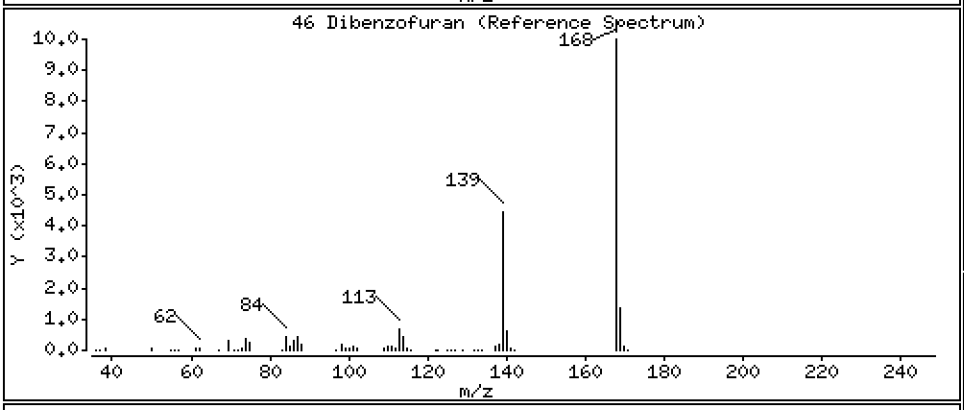
Column diameter: 0.25

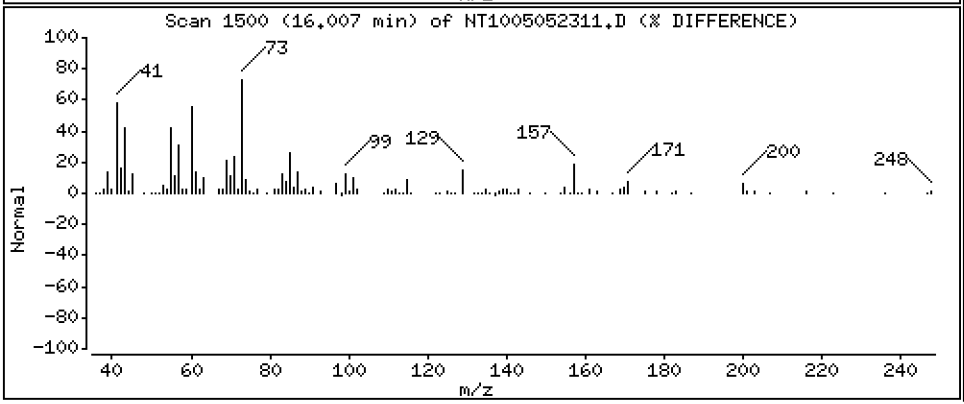
46 Dibenzofuran

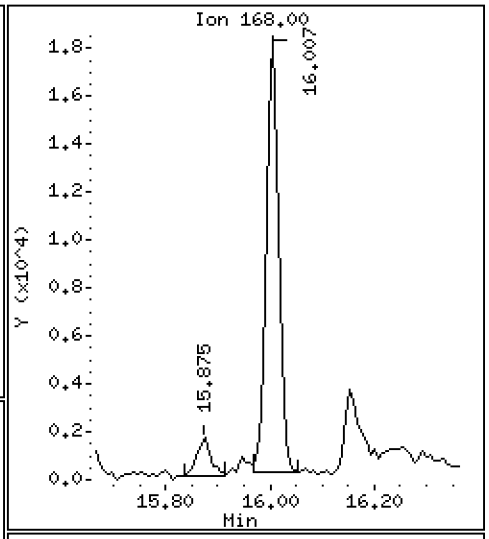
Concentration: 0.1726 ug/mL

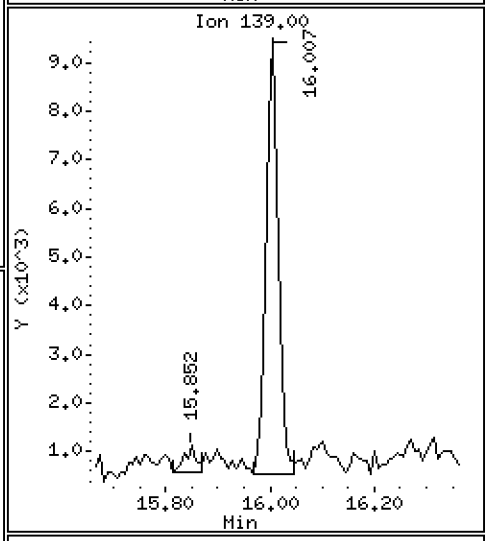


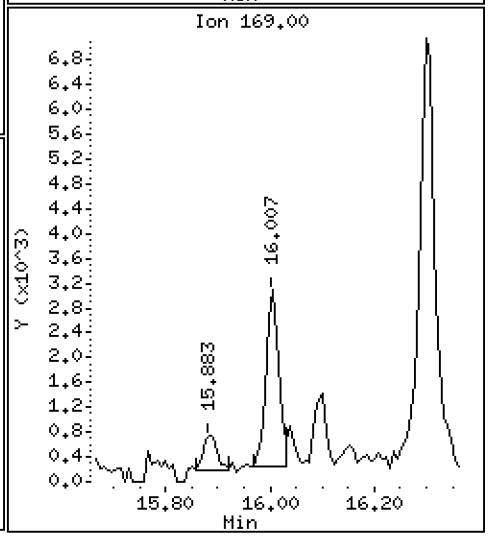












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Page 12

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

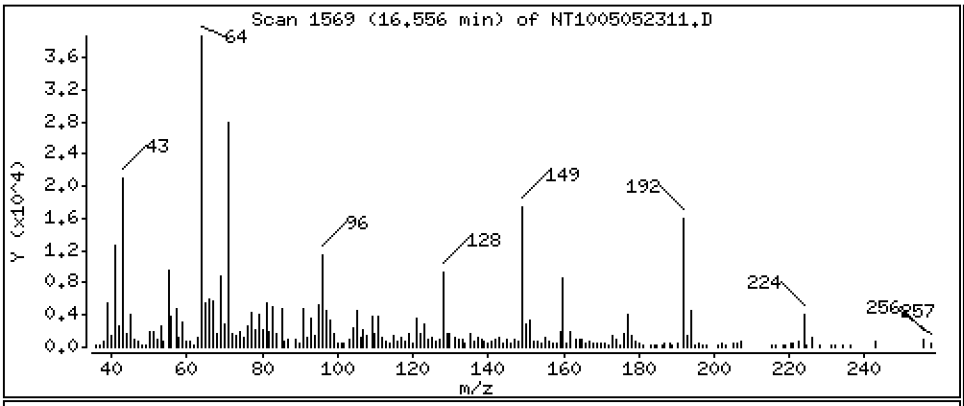
Operator: VTS

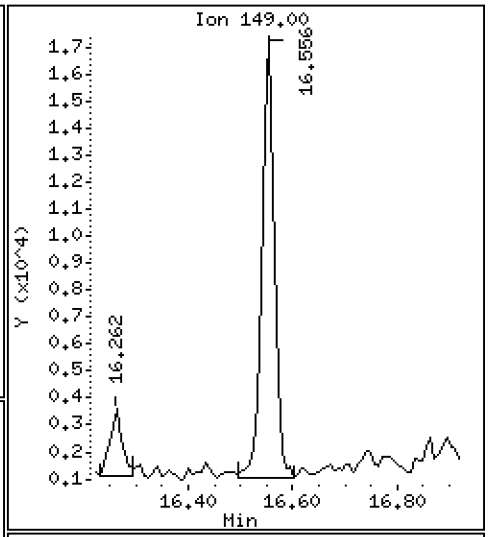
Column phase: ZB-5msi

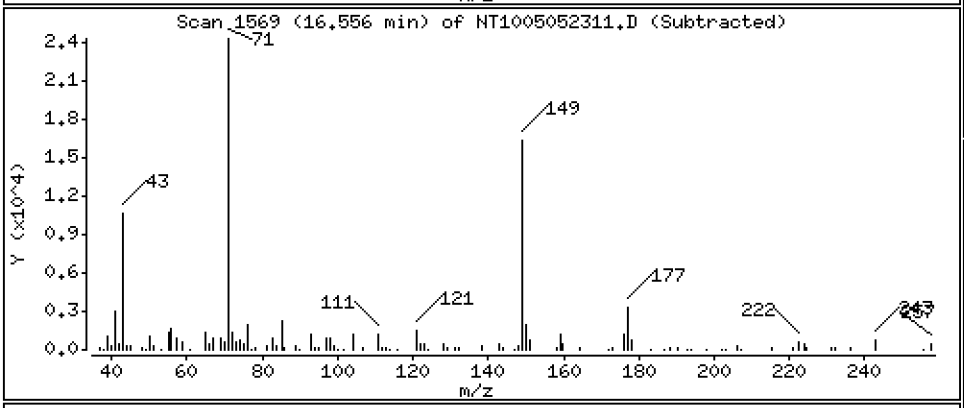
Column diameter: 0.25

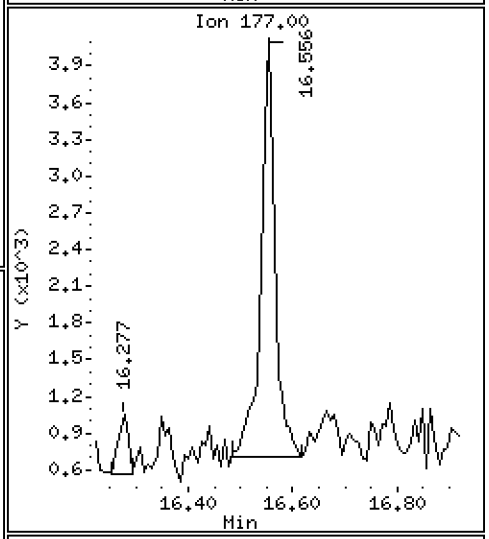
50 Diethylphthalate

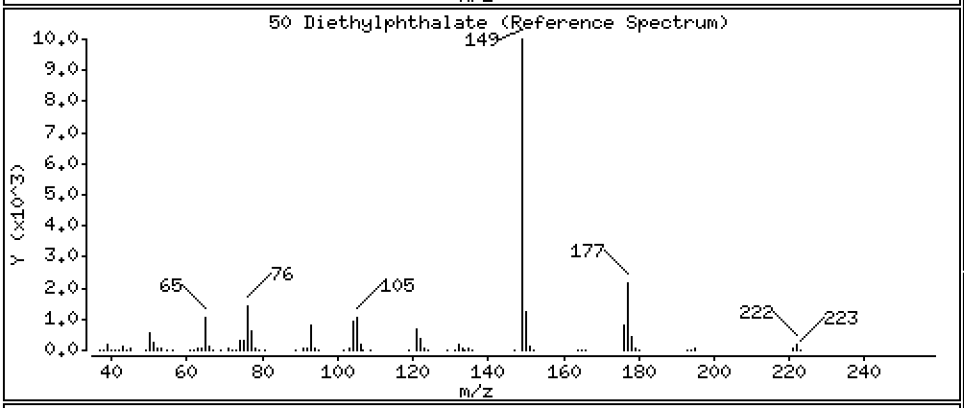
Concentration: 0.2270 ug/mL

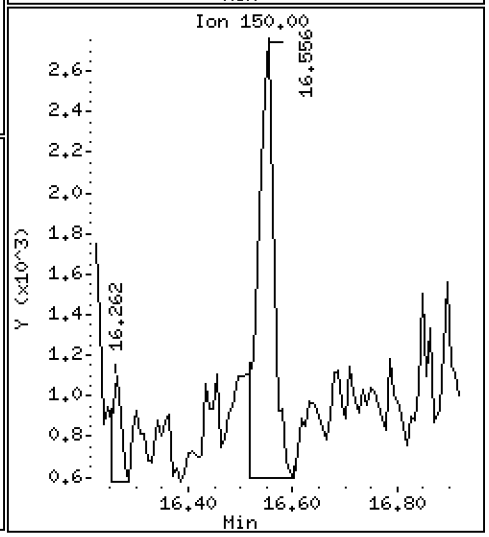


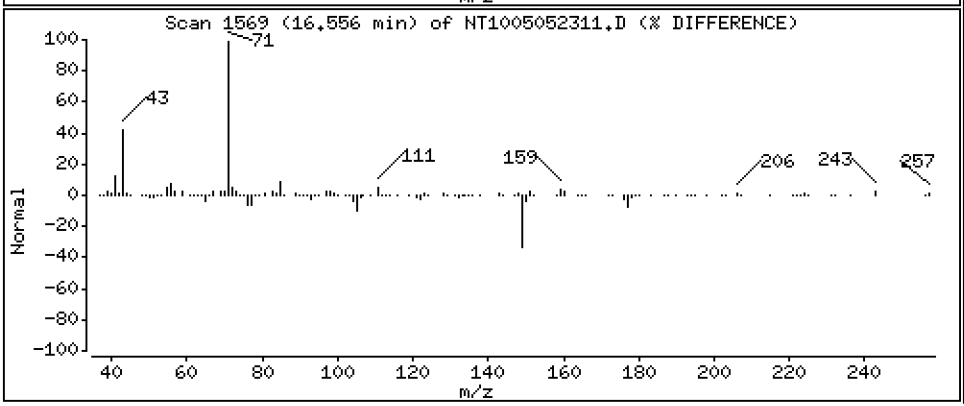












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

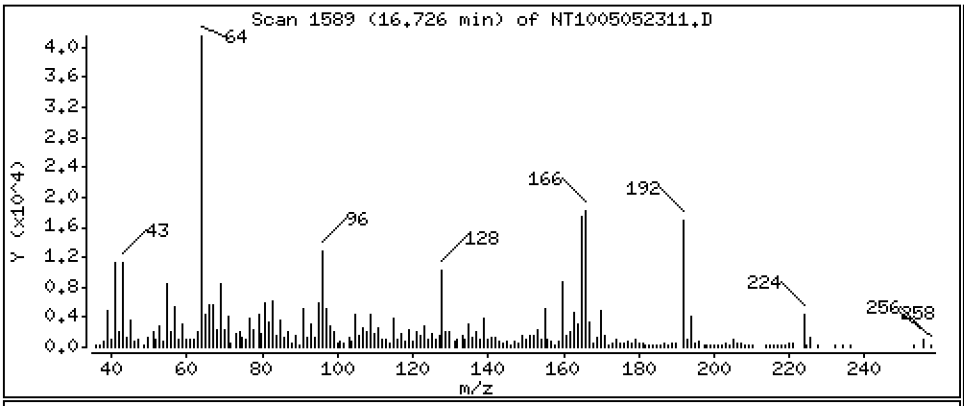
Operator: VTS

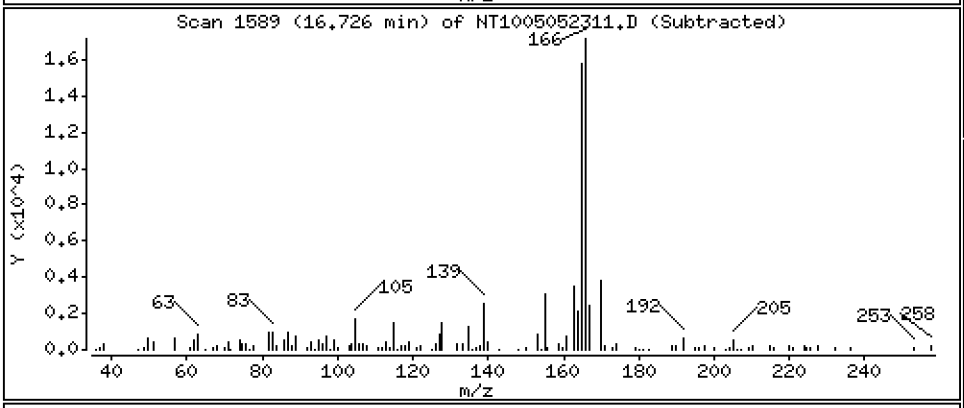
Column phase: ZB-5msi

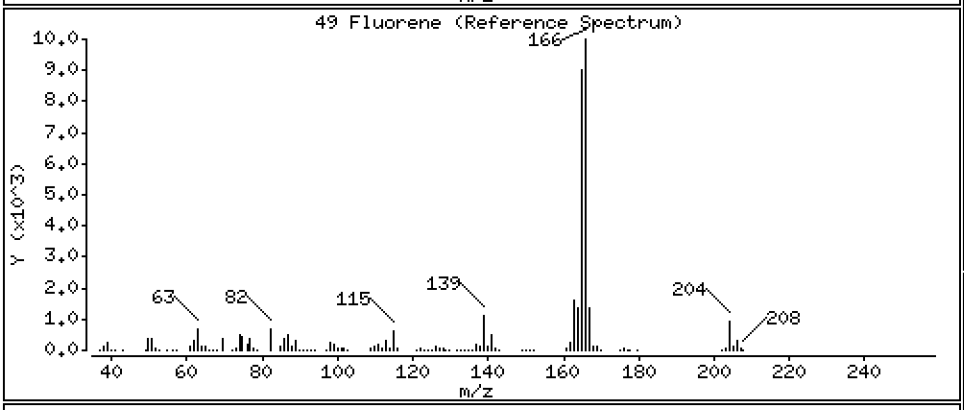
Column diameter: 0.25

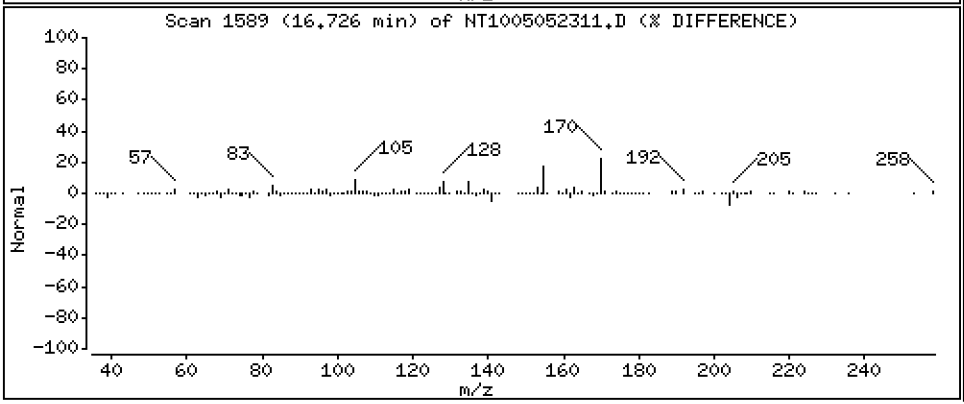
49 Fluorene

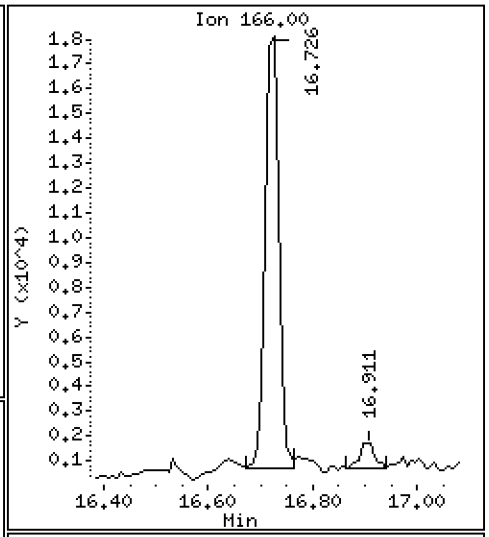
Concentration: 0.2149 ug/mL

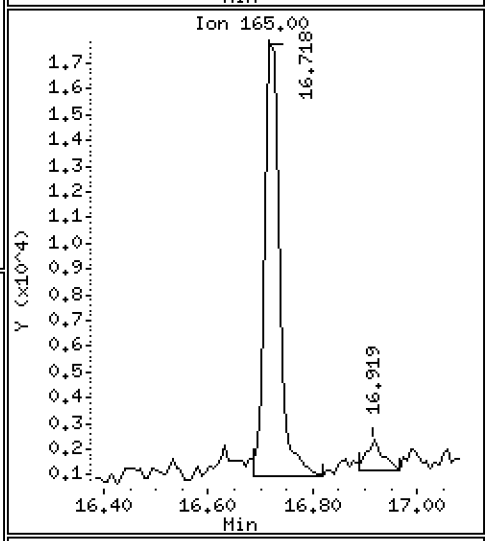


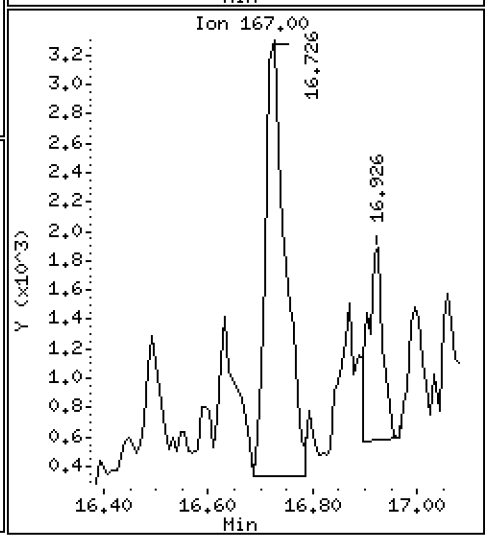












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

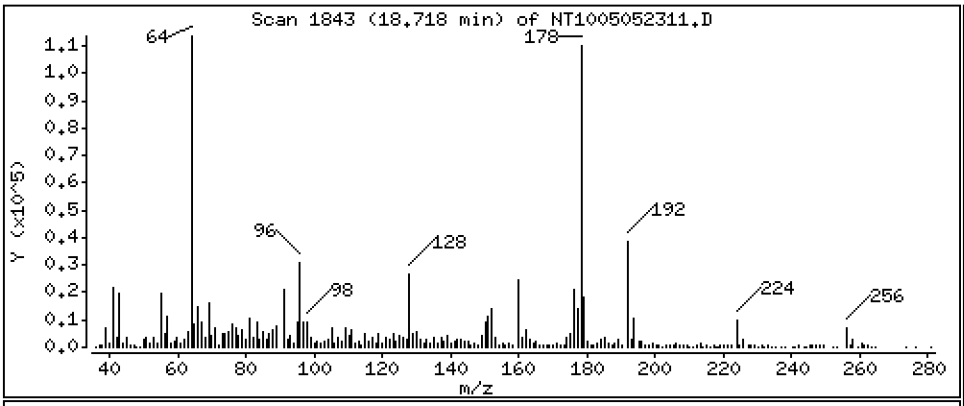
Operator: VTS

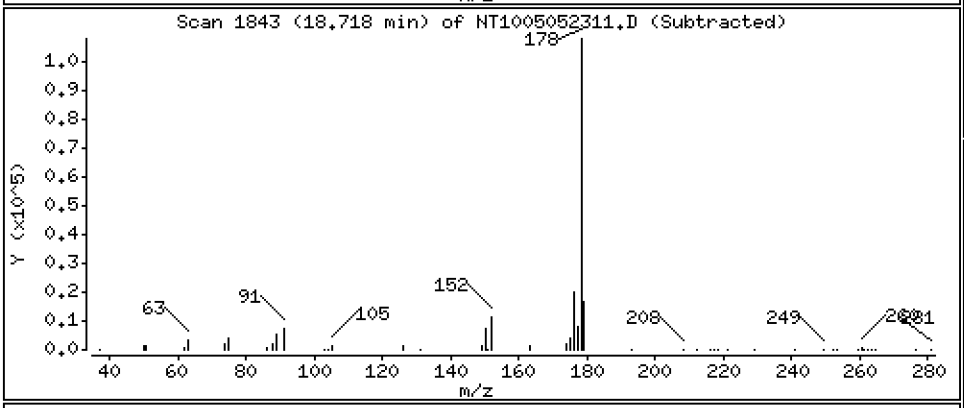
Column phase: ZB-5msi

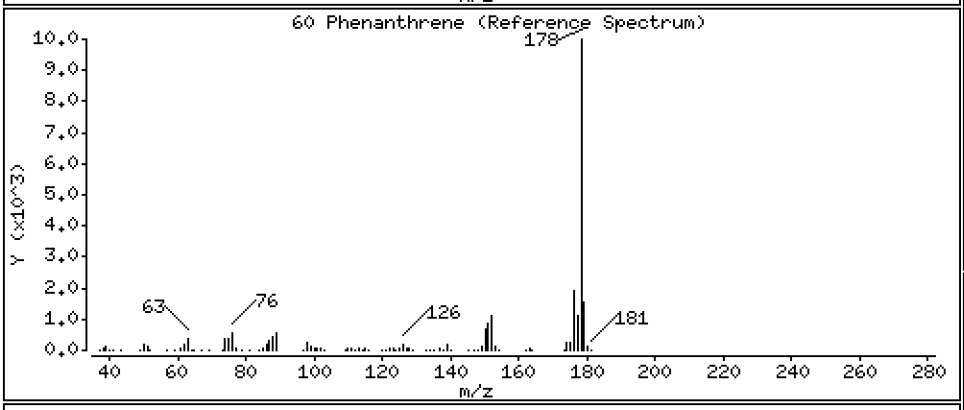
Column diameter: 0.25

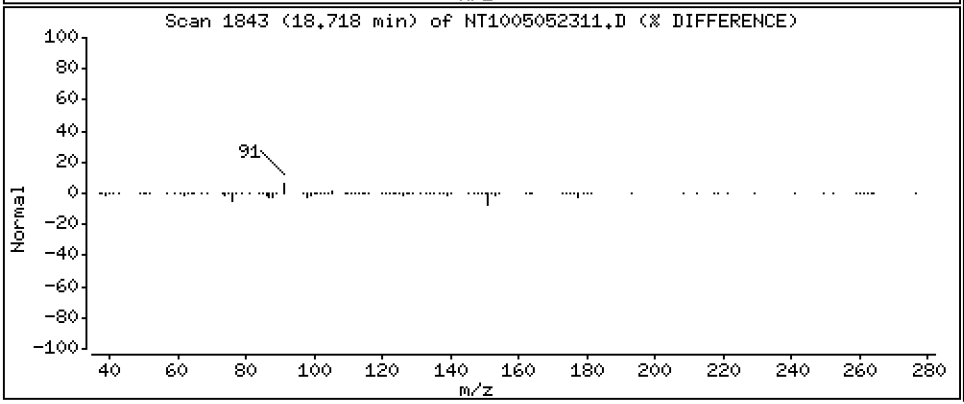
60 Phenanthrene

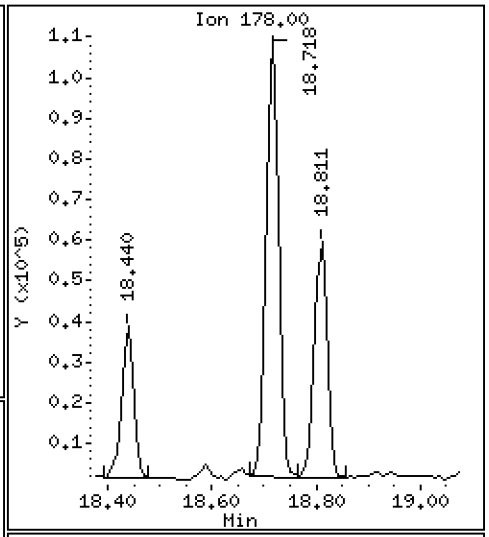
Concentration: 0.8677 ug/mL

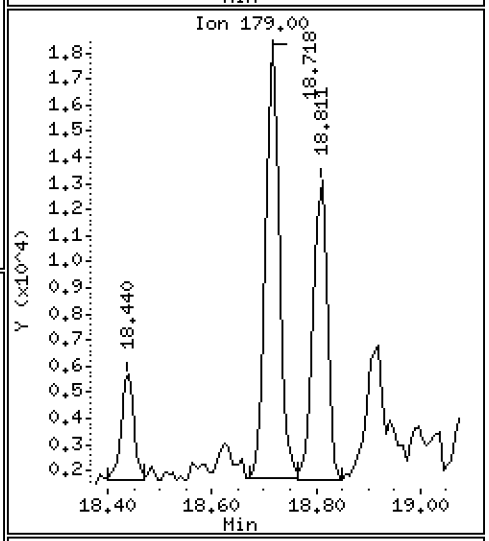


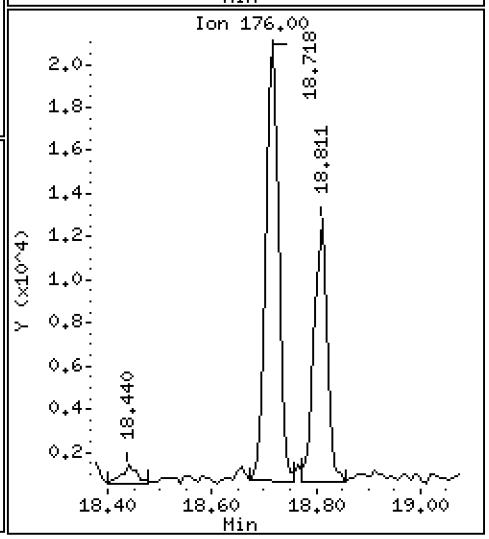












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

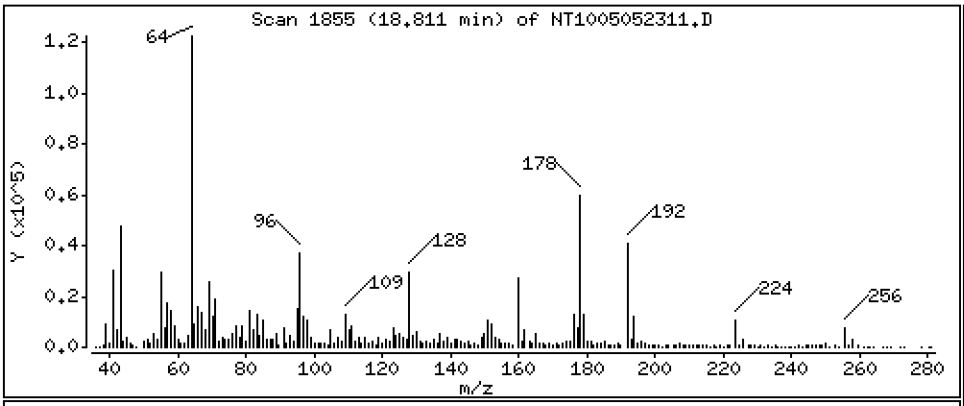
Operator: VTS

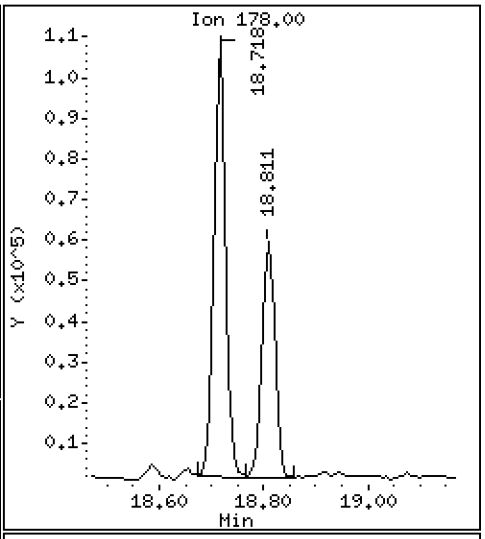
Column phase: ZB-5msi

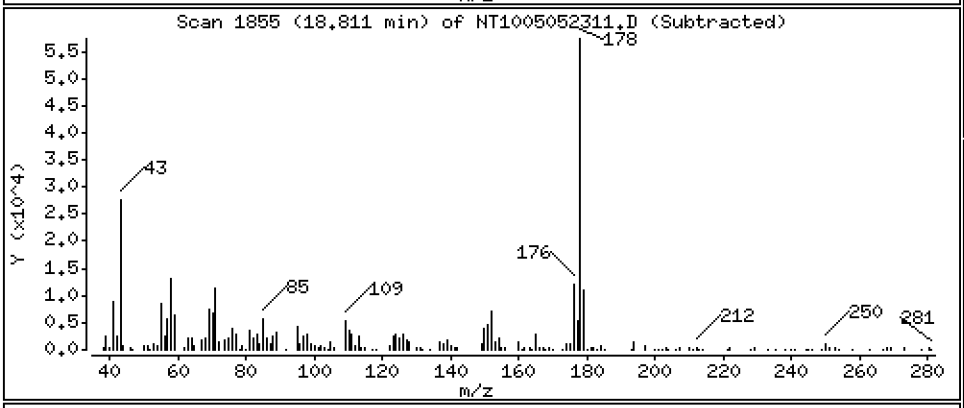
Column diameter: 0.25

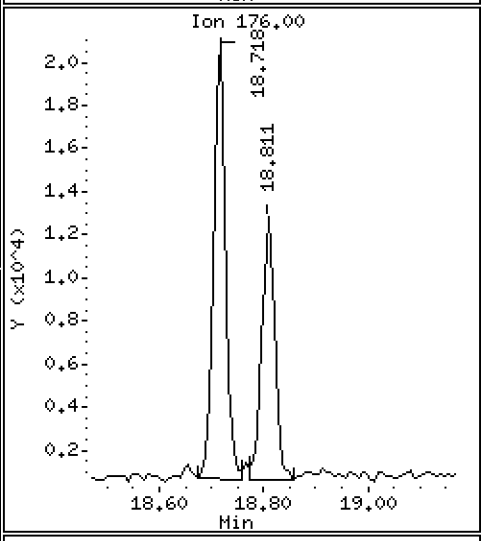
61 Anthracene

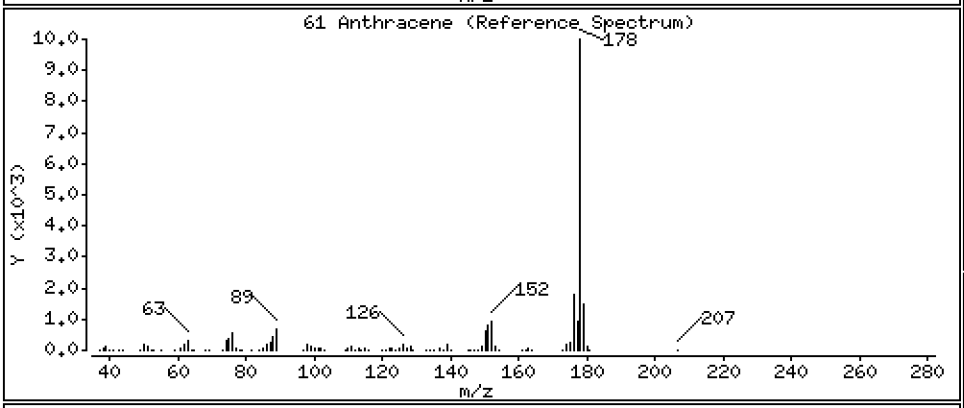
Concentration: 0.5336 ug/mL

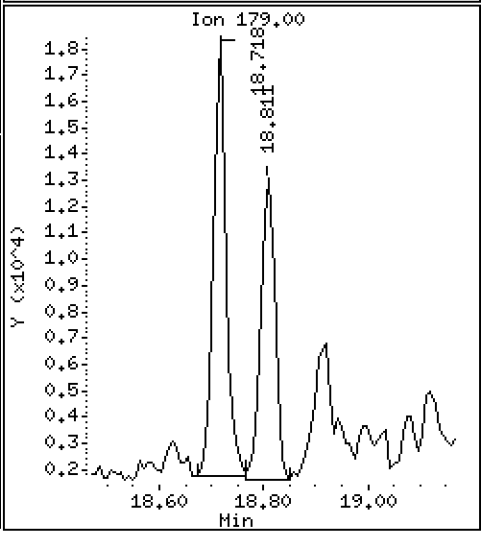


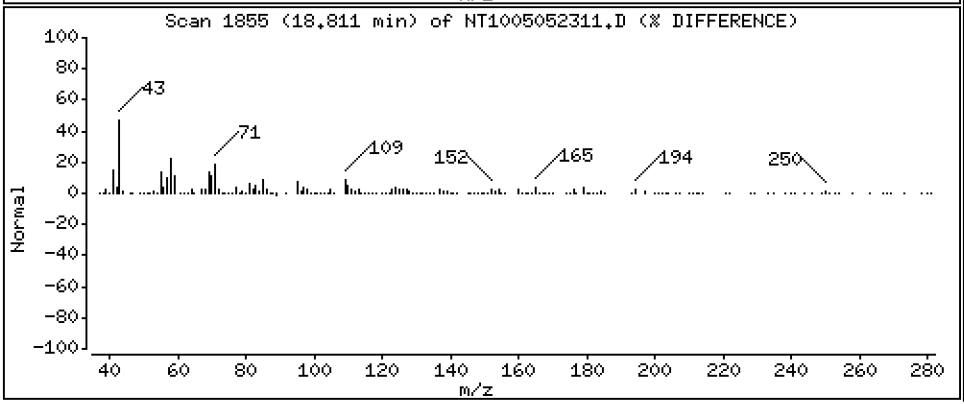












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

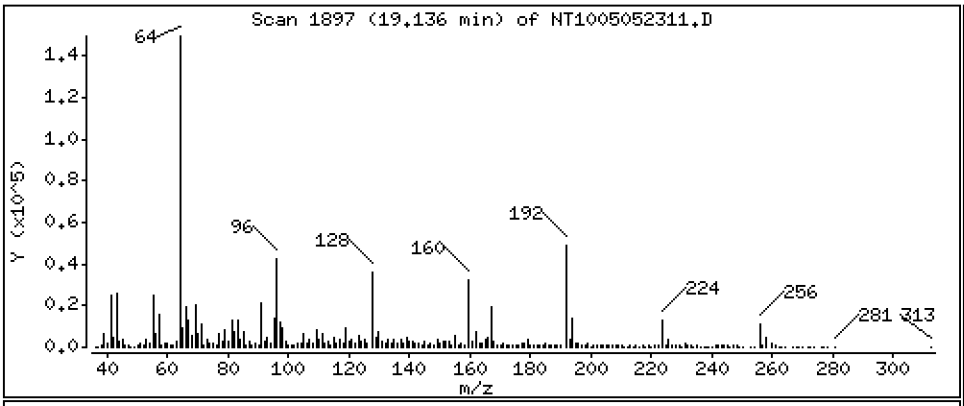
Operator: VTS

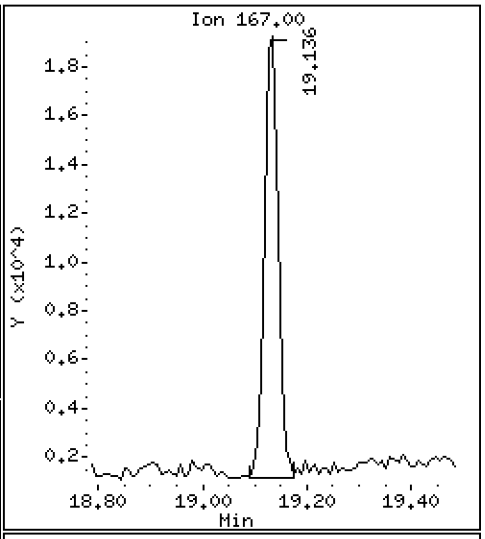
Column phase: ZB-5msi

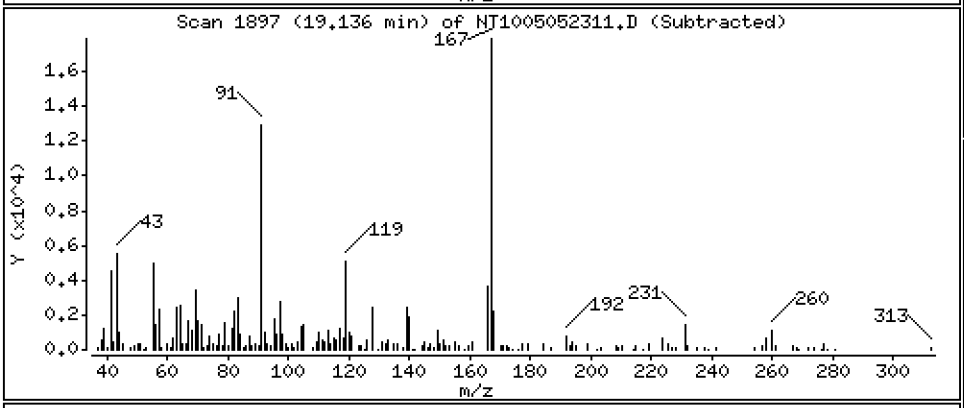
Column diameter: 0.25

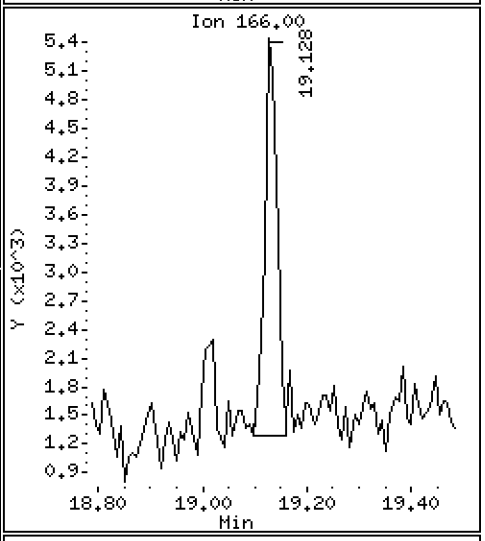
62 Carbazole

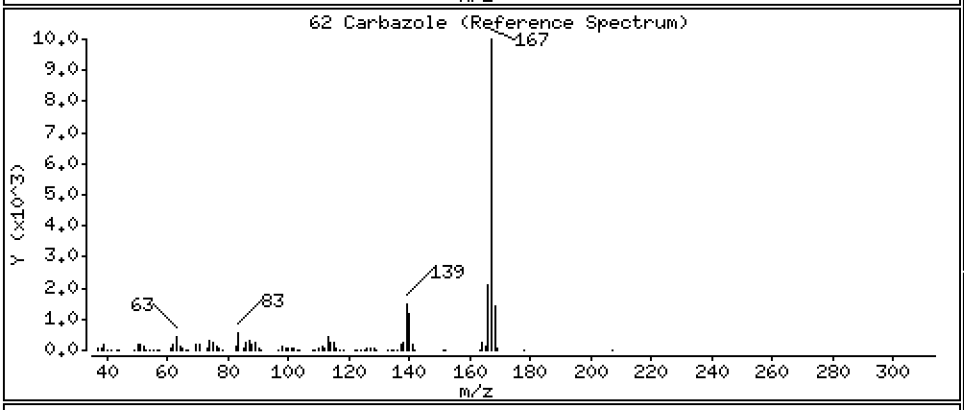
Concentration: 0.1994 ug/mL

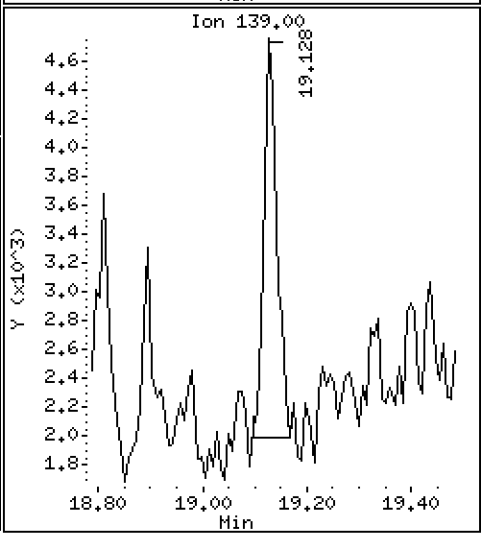


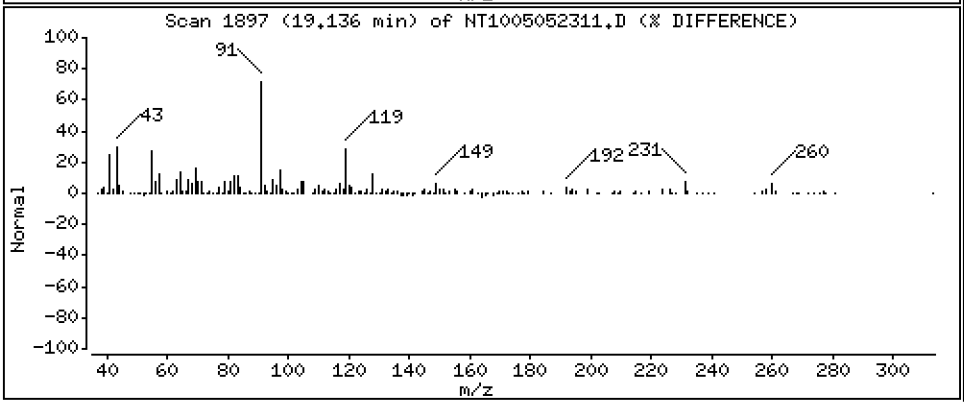












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

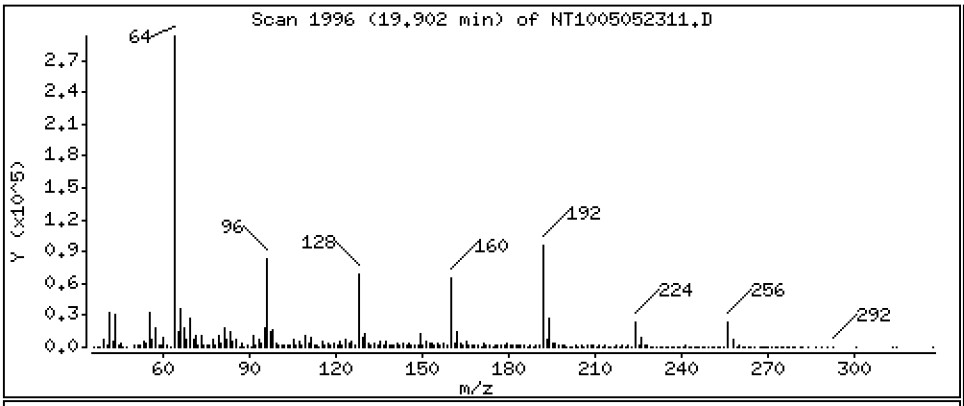
Operator: VTS

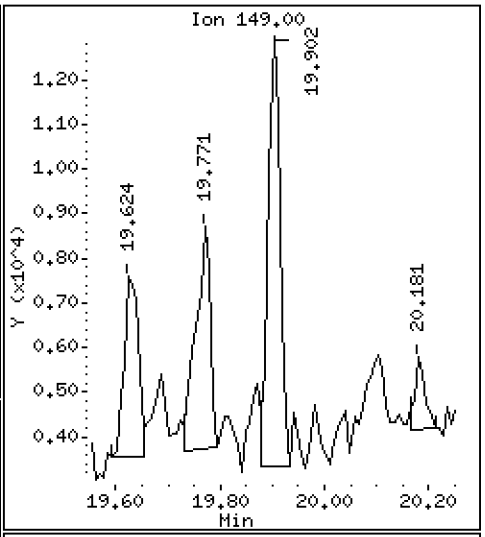
Column phase: ZB-5msi

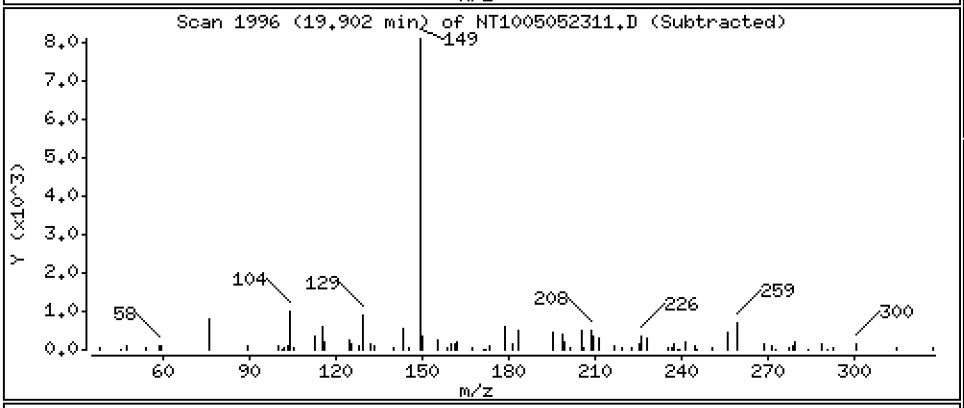
Column diameter: 0.25

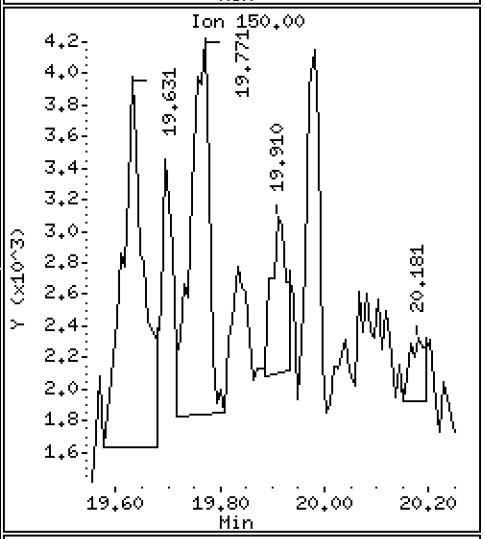
63 Di-n-butylphthalate

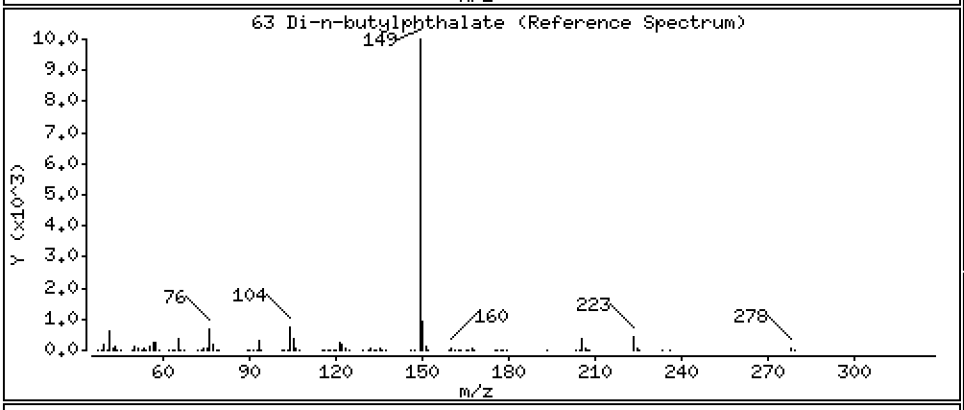
Concentration: 0.06155 ug/mL

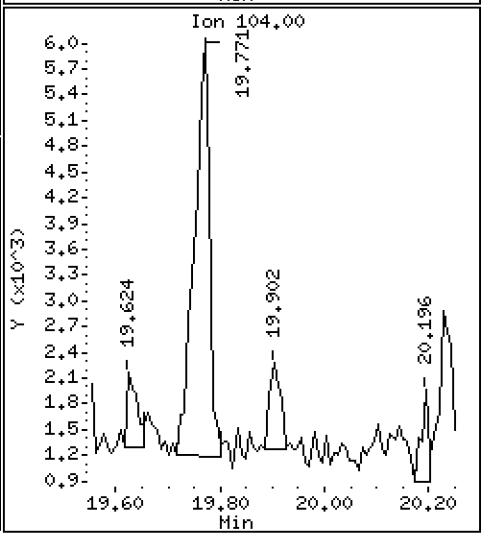


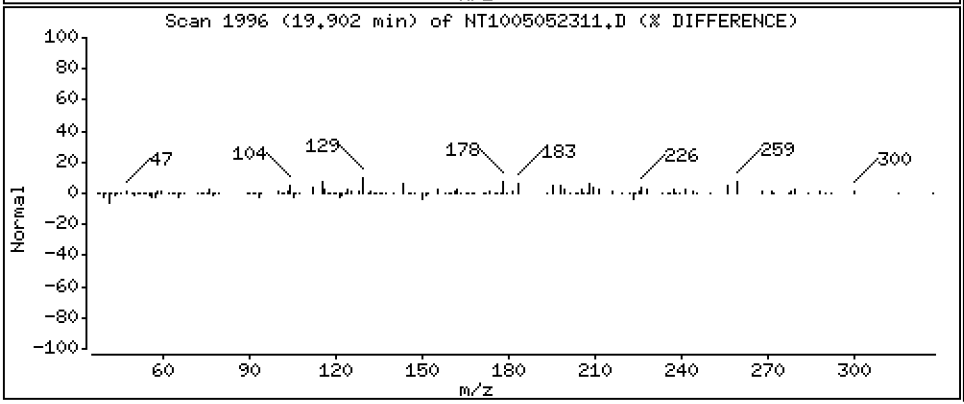












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

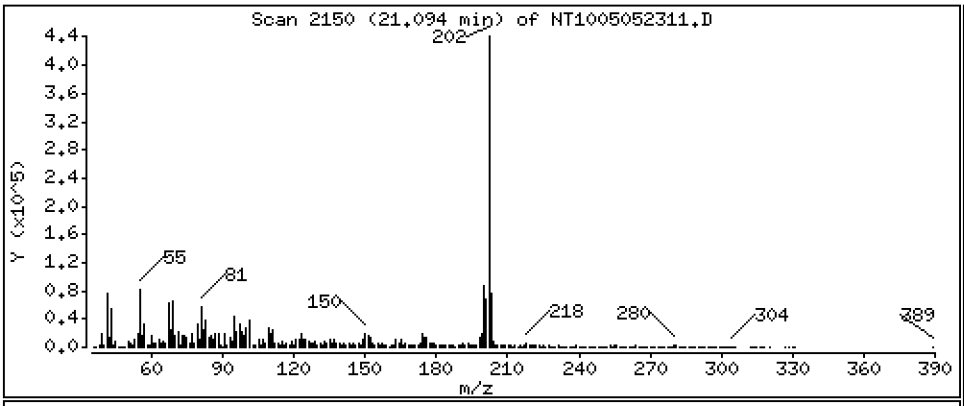
Operator: VTS

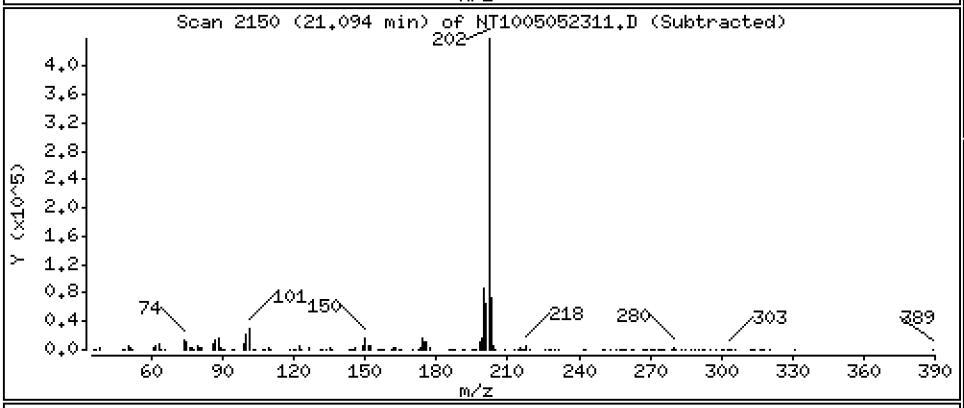
Column phase: ZB-5msi

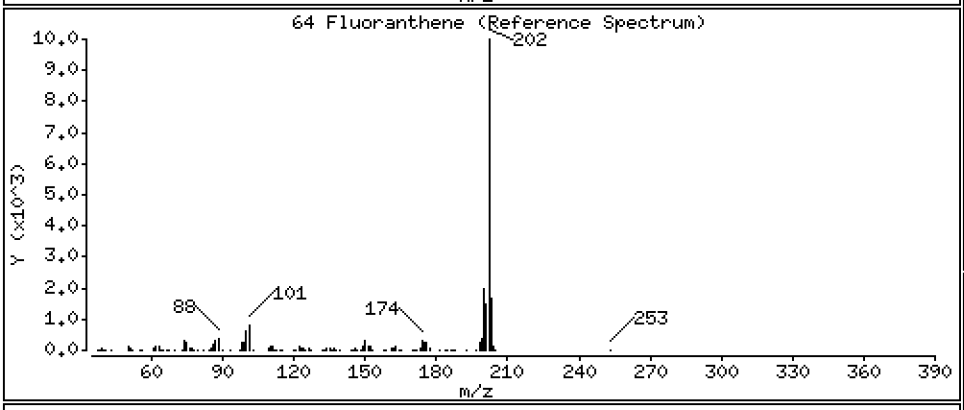
Column diameter: 0.25

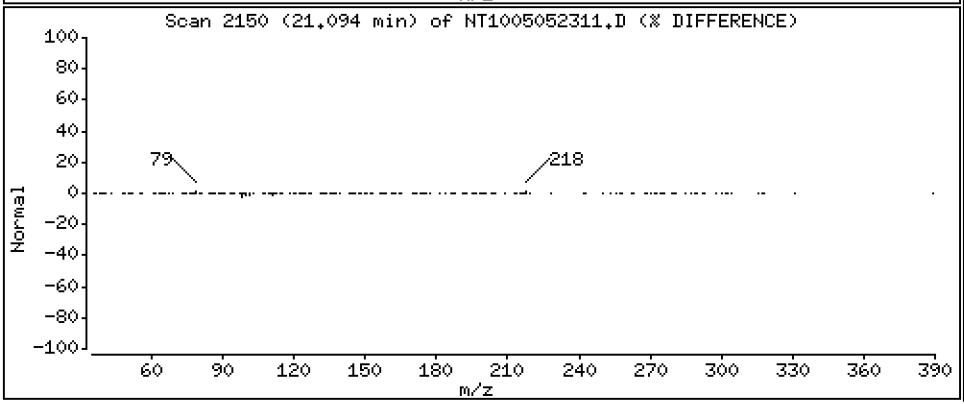
64 Fluoranthene

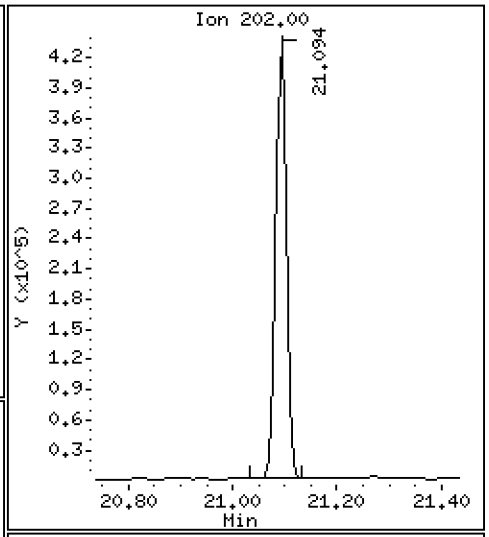
Concentration: 2.687 ug/mL

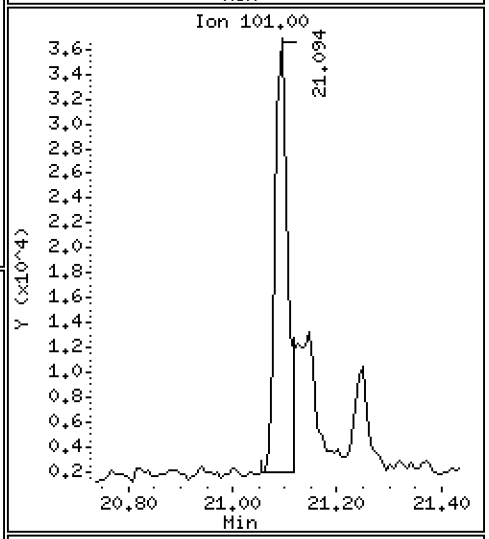


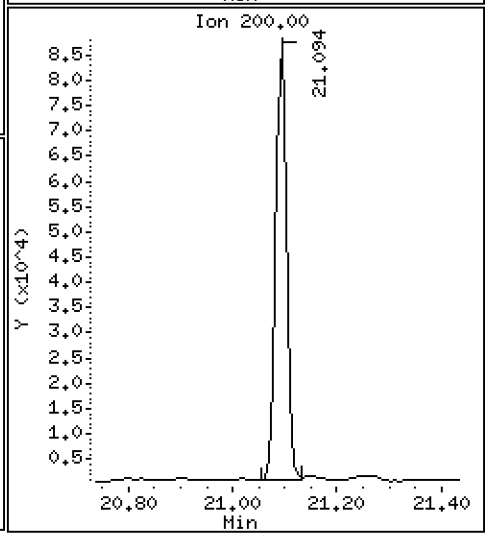












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

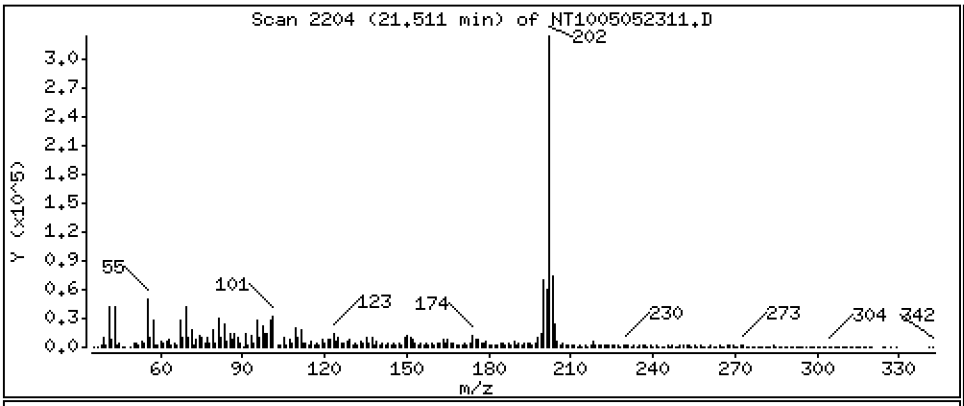
Operator: VTS

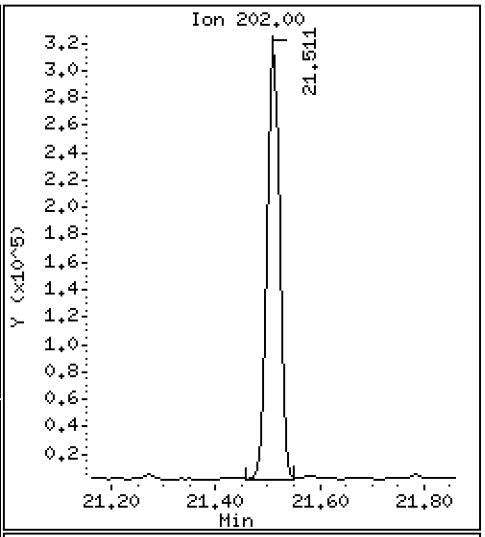
Column phase: ZB-5msi

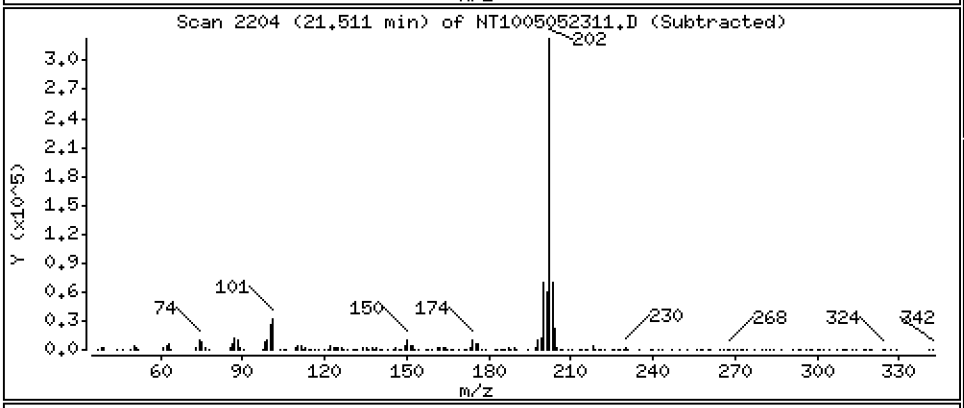
Column diameter: 0.25

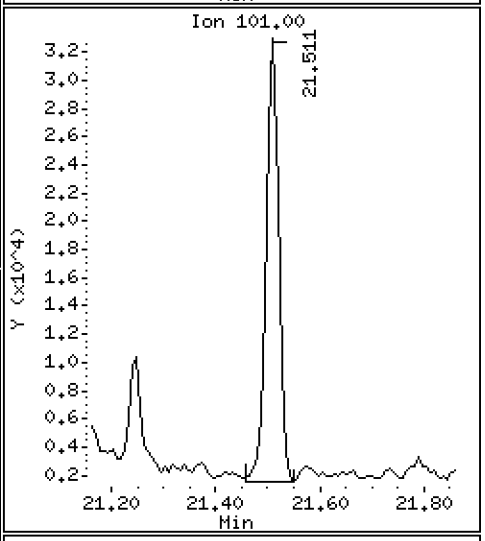
65 Pyrene

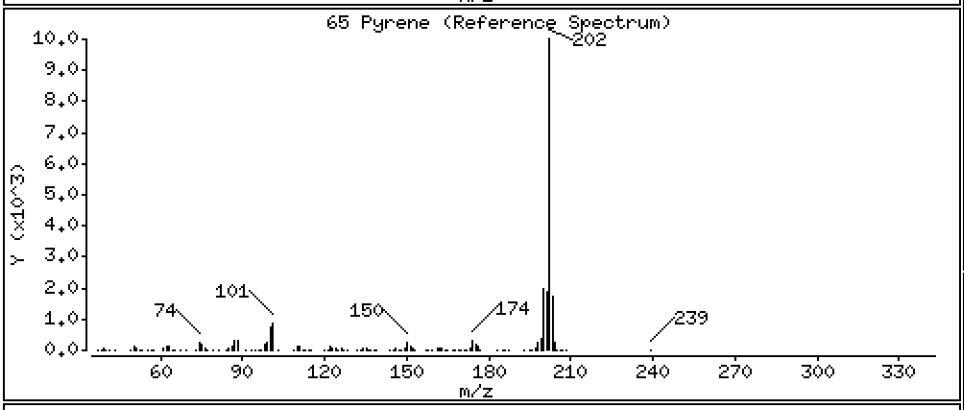
Concentration: 2.327 ug/mL

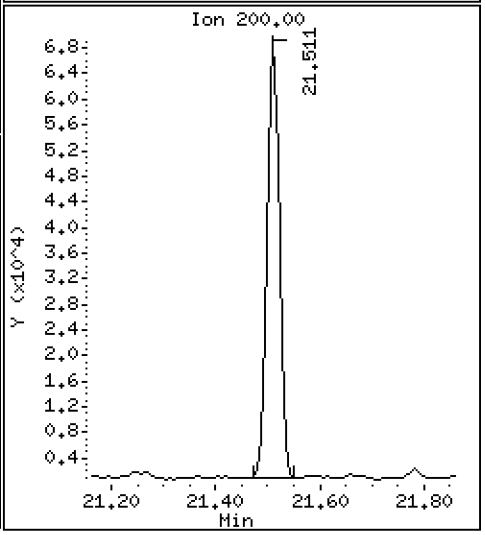


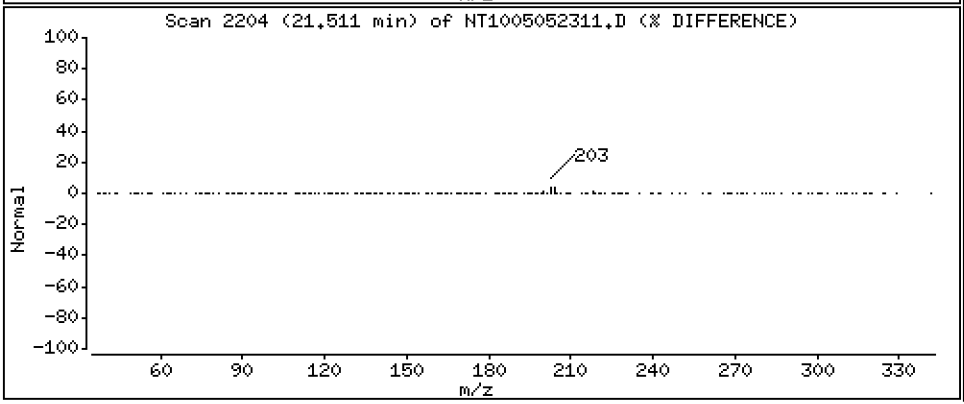












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

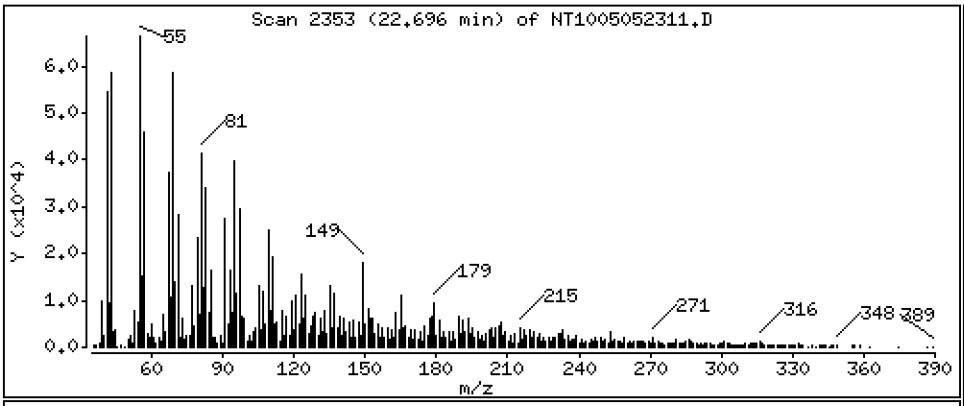
Operator: VTS

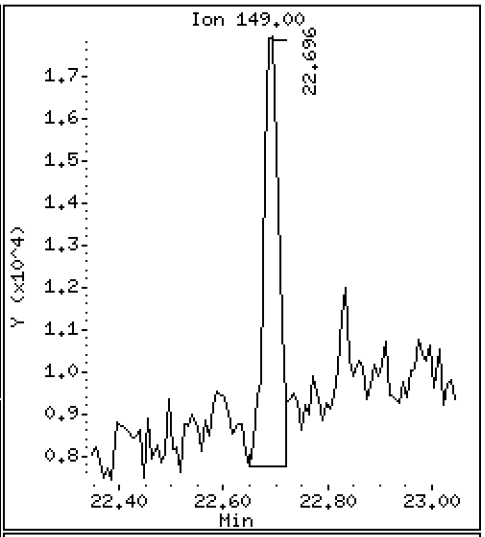
Column phase: ZB-5msi

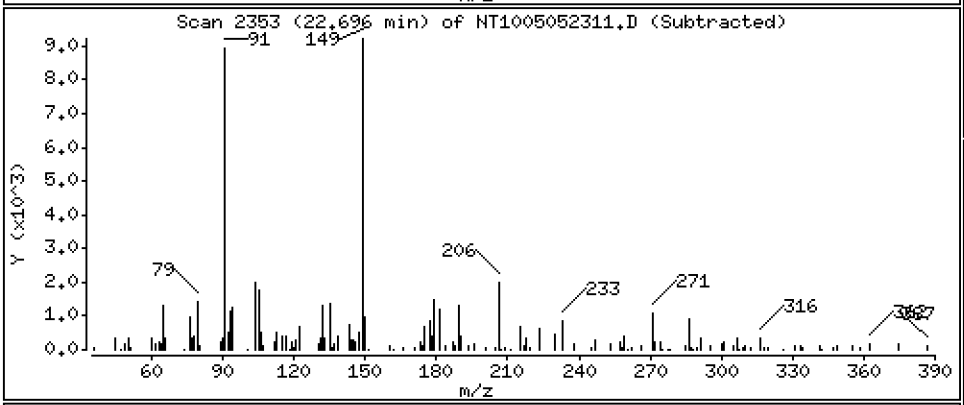
Column diameter: 0.25

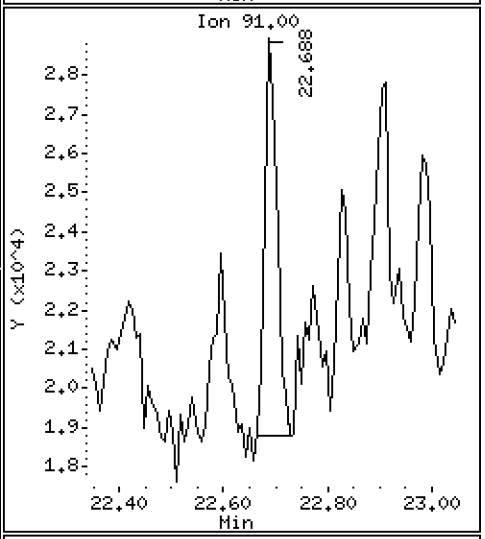
67 Butylbenzylphthalate

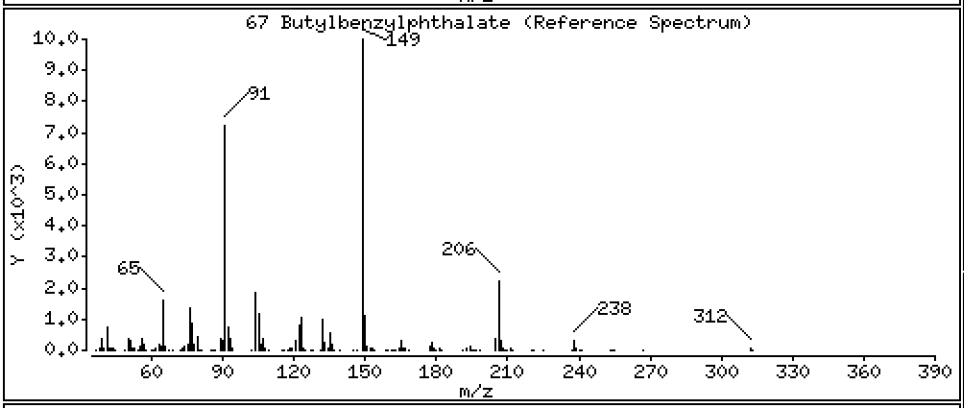
Concentration: 0.1971 ug/mL

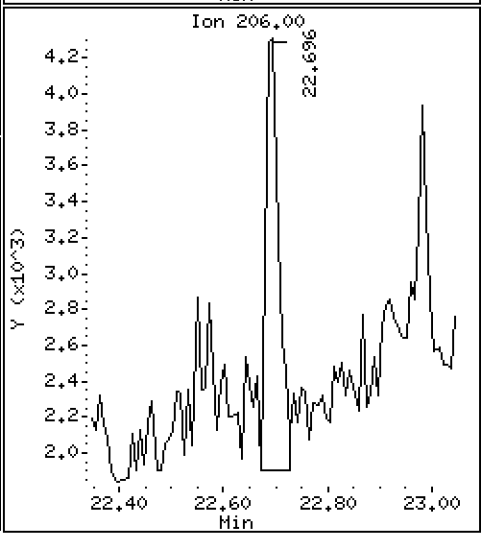


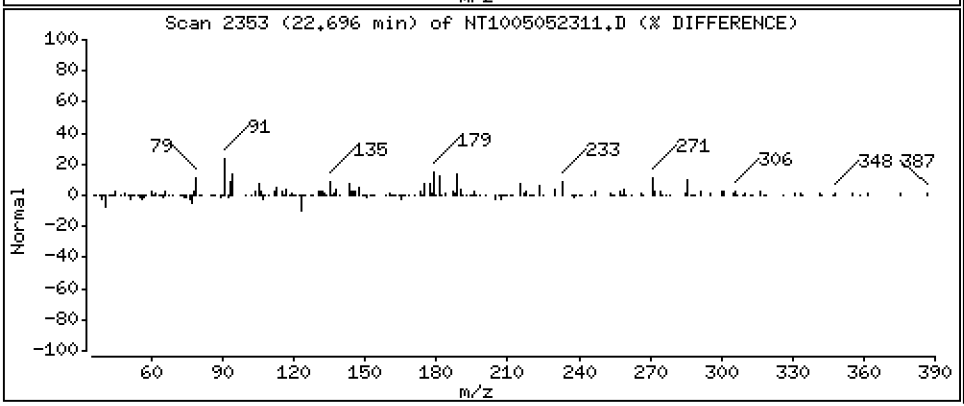












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

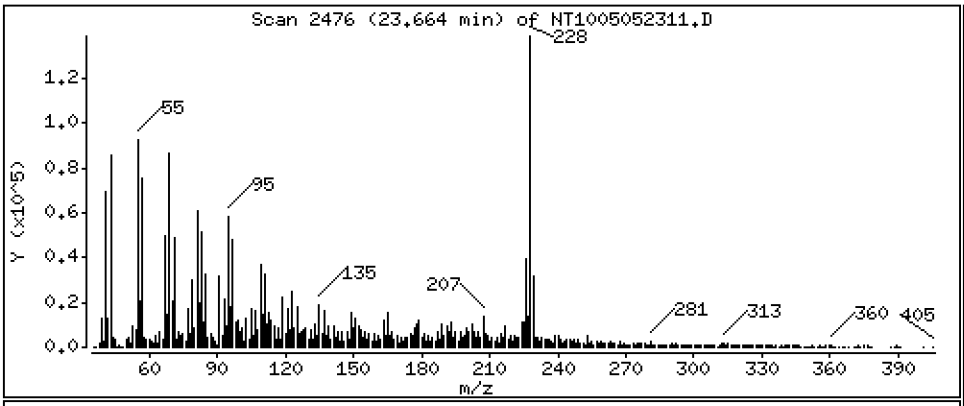
Operator: VTS

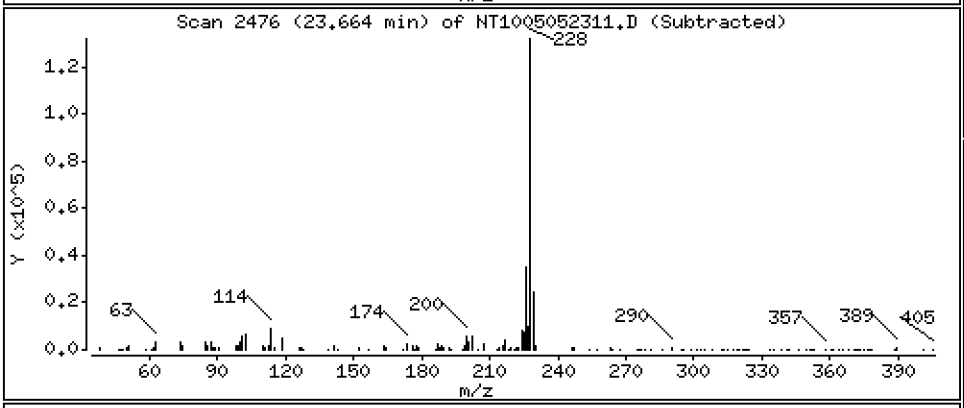
Column phase: ZB-5msi

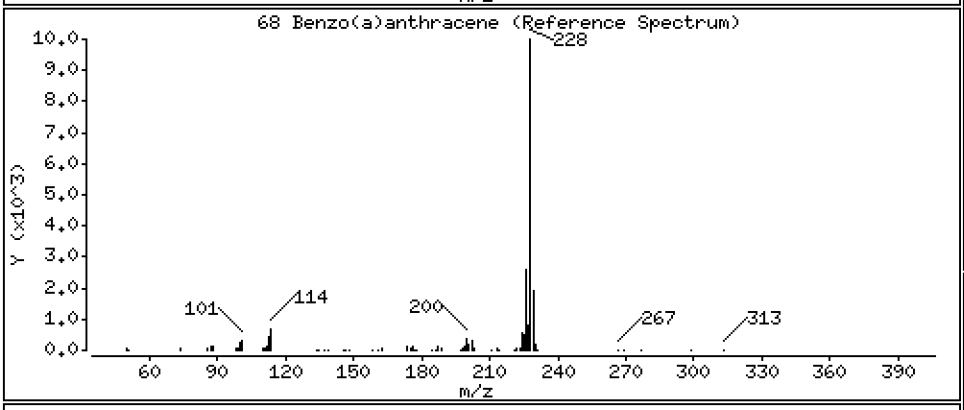
Column diameter: 0.25

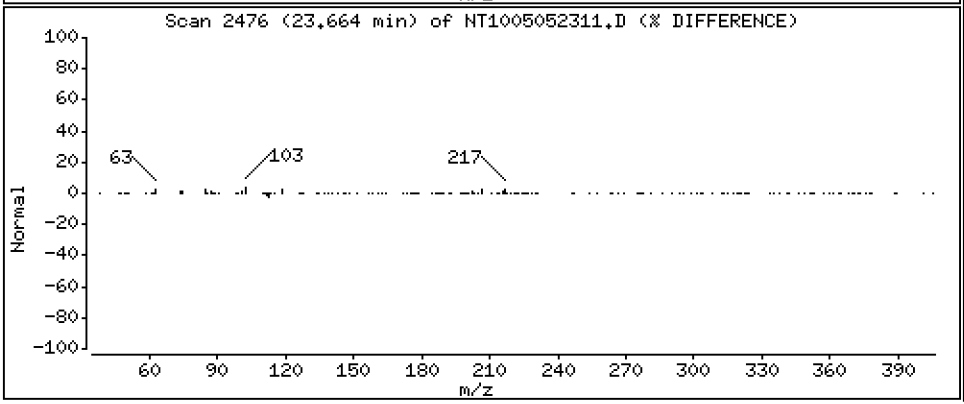
68 Benzo(a)anthracene

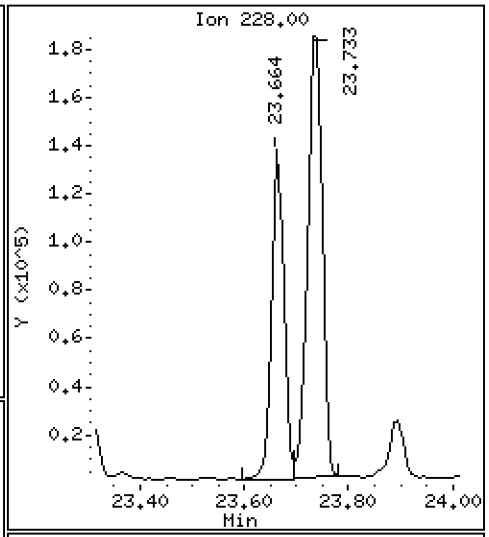
Concentration: 1.103 ug/mL

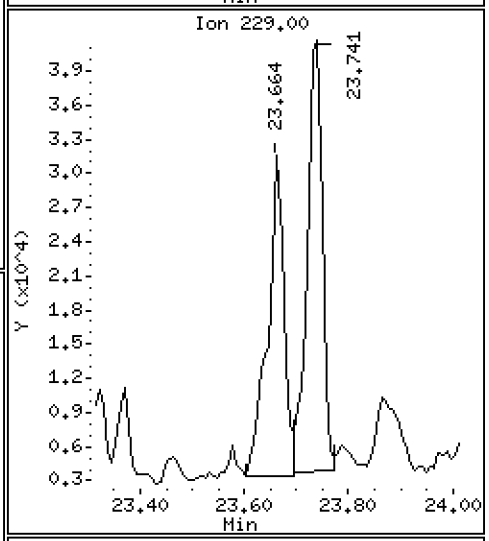


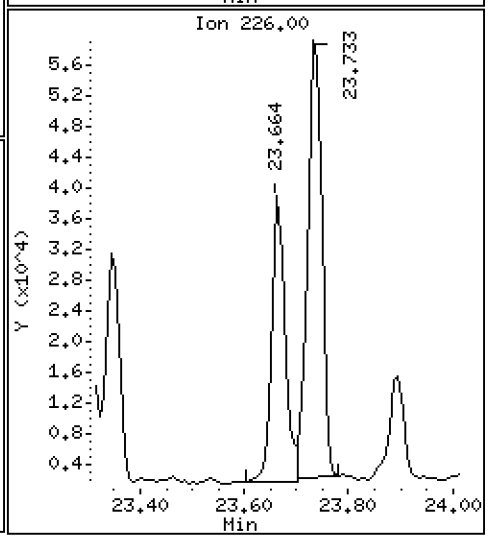












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

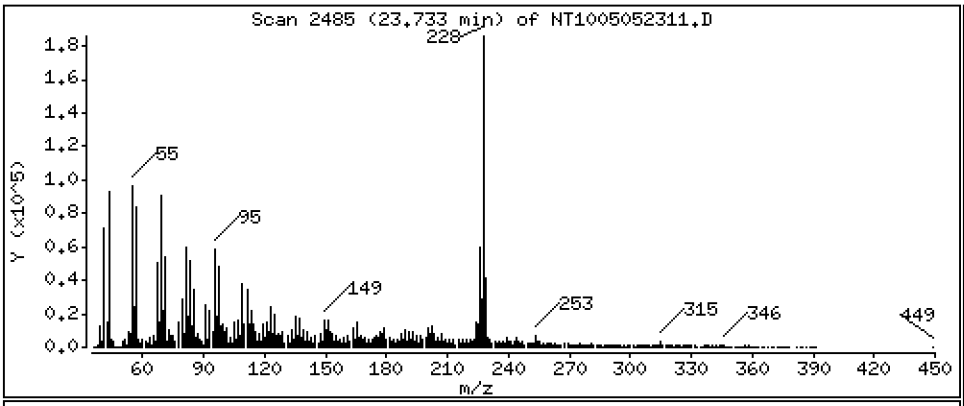
Operator: VTS

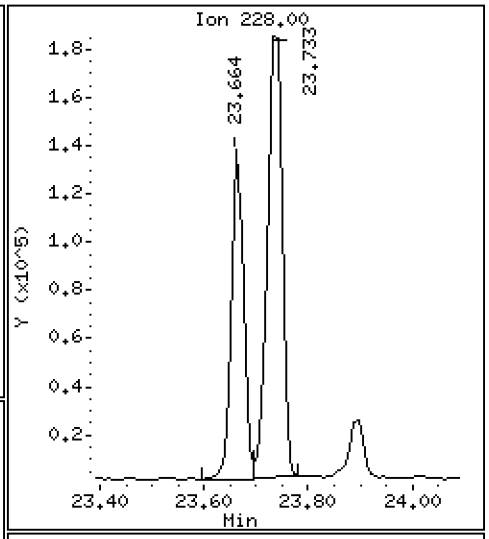
Column phase: ZB-5msi

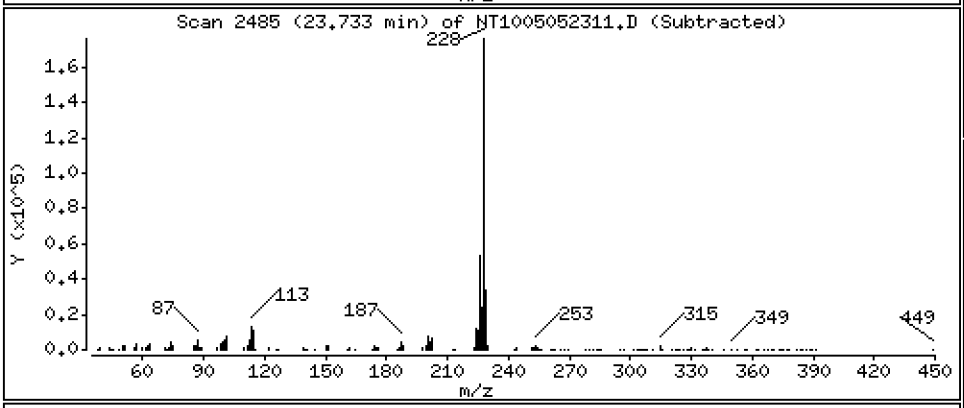
Column diameter: 0.25

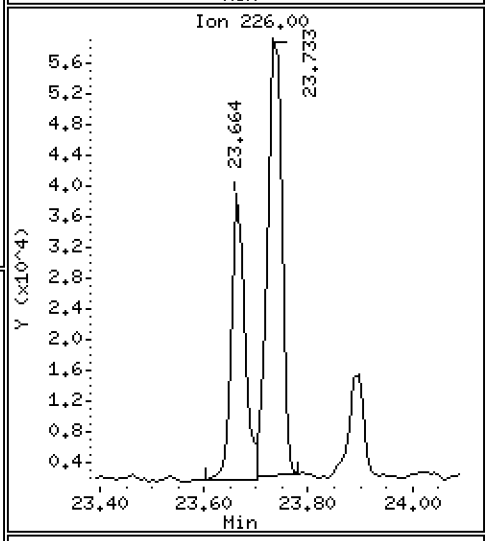
71 Chrysene

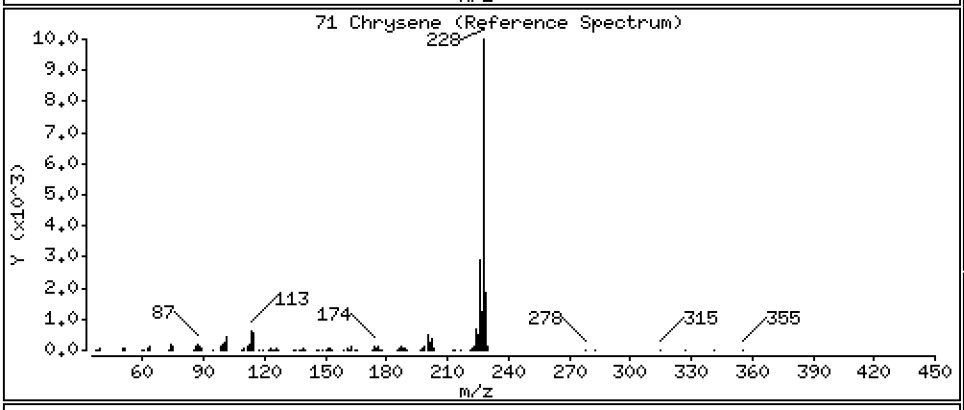
Concentration: 2.033 ug/mL

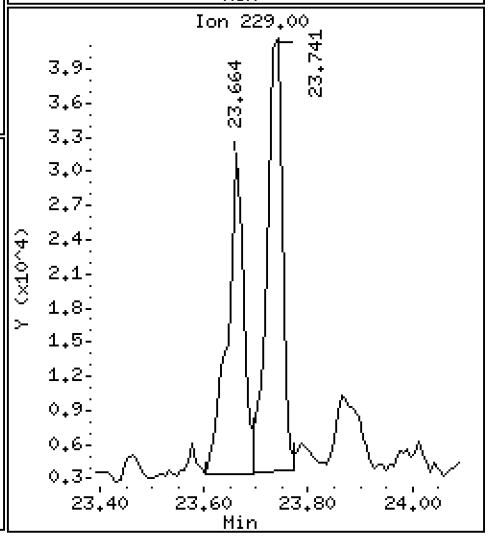


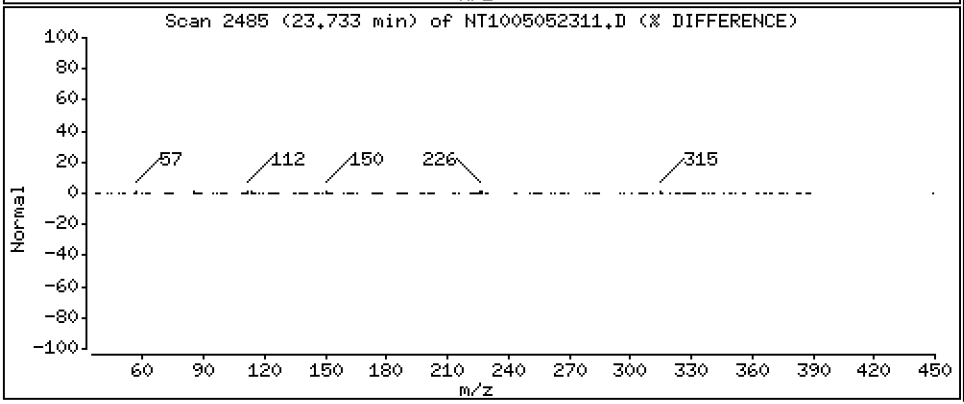












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

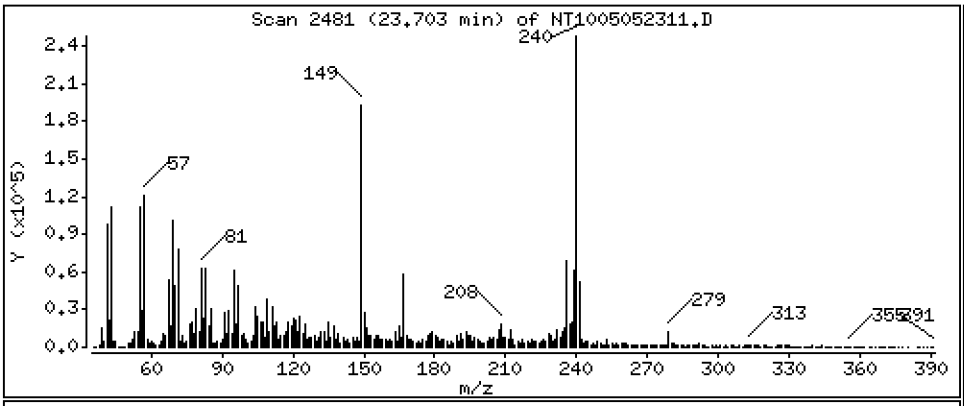
Operator: VTS

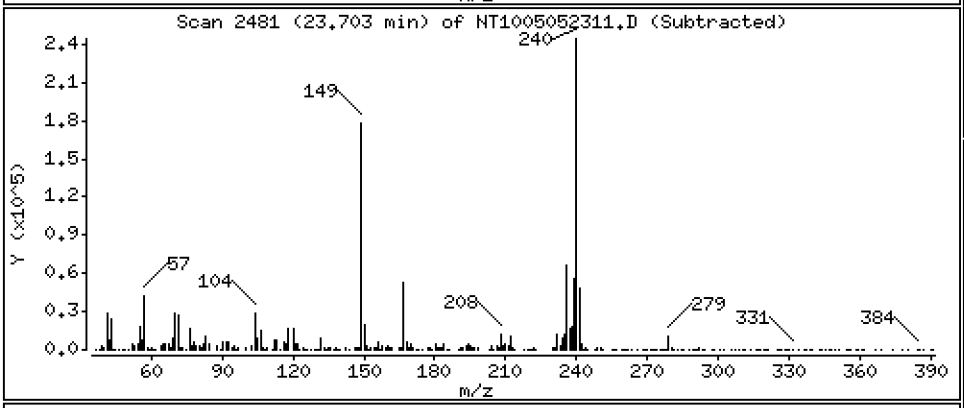
Column phase: ZB-5msi

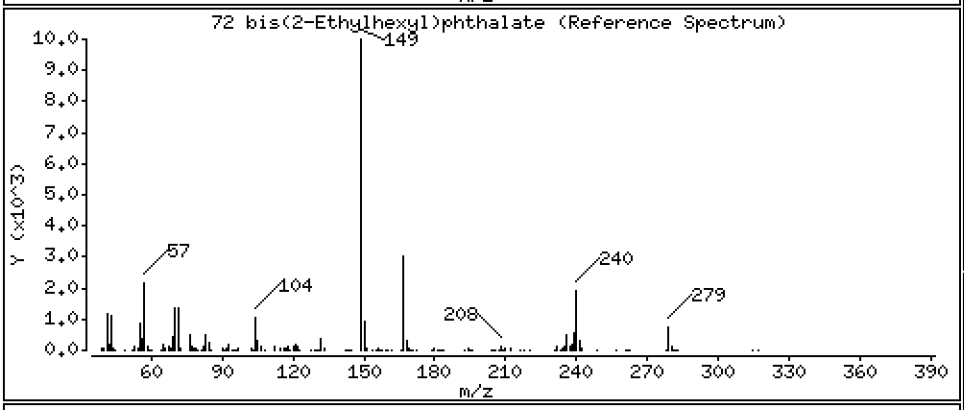
Column diameter: 0.25

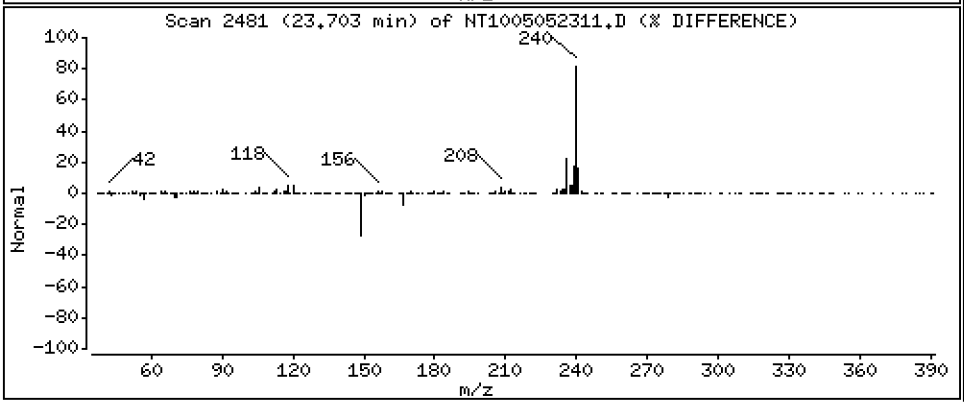
72 bis(2-Ethylhexyl)phthalate

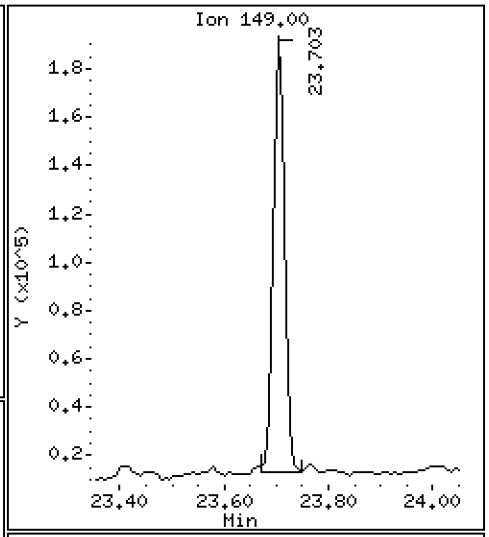
Concentration: 1.855 ug/mL

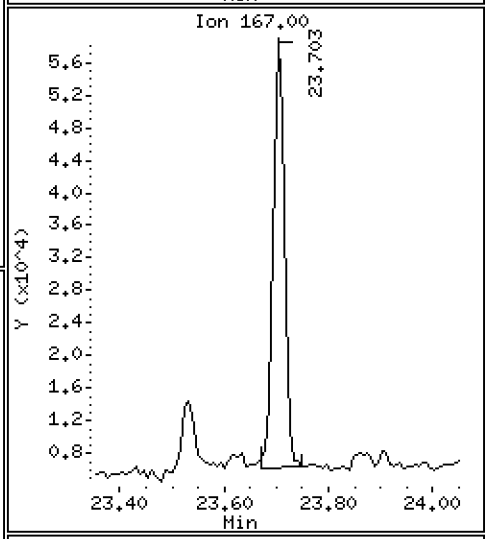


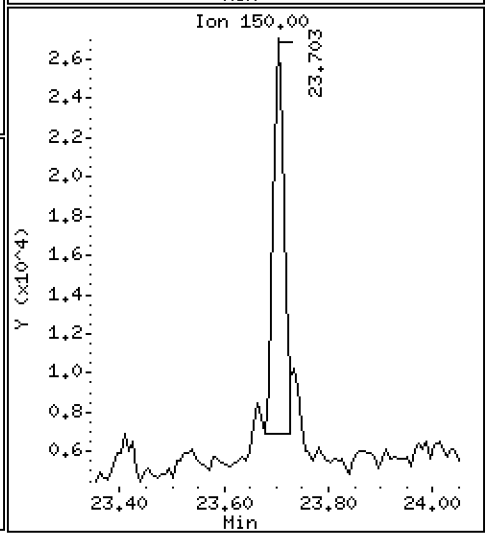












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

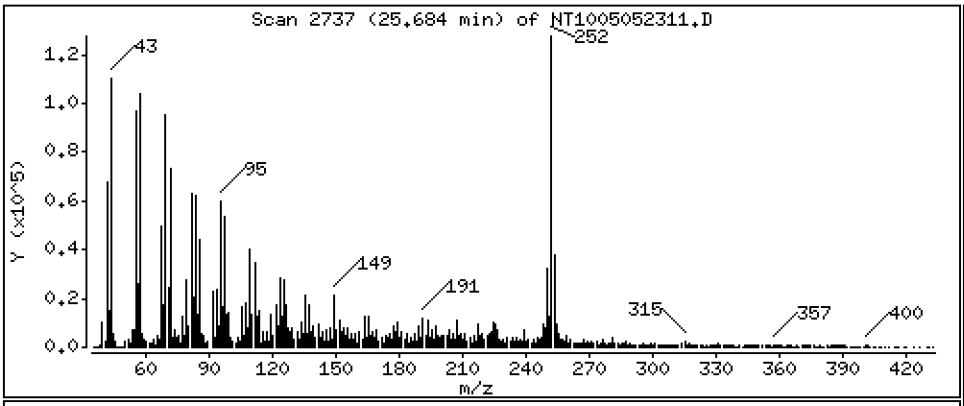
Operator: VTS

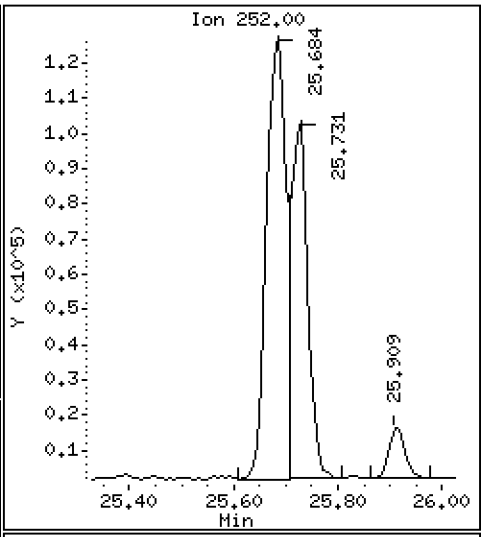
Column phase: ZB-5msi

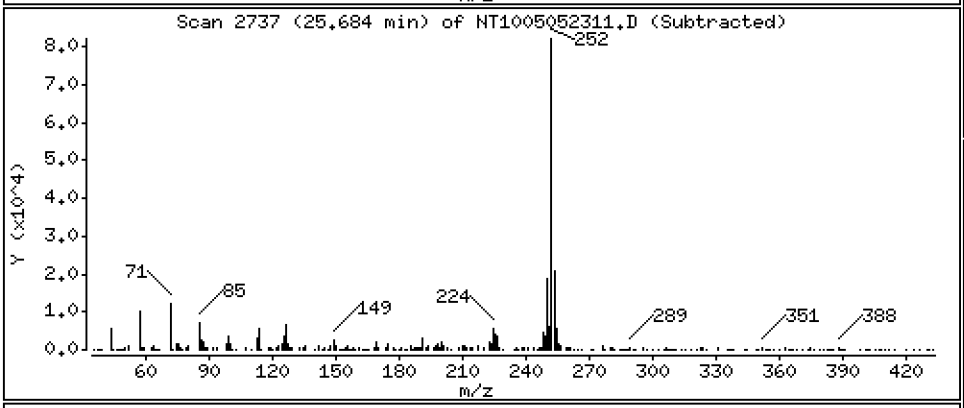
Column diameter: 0.25

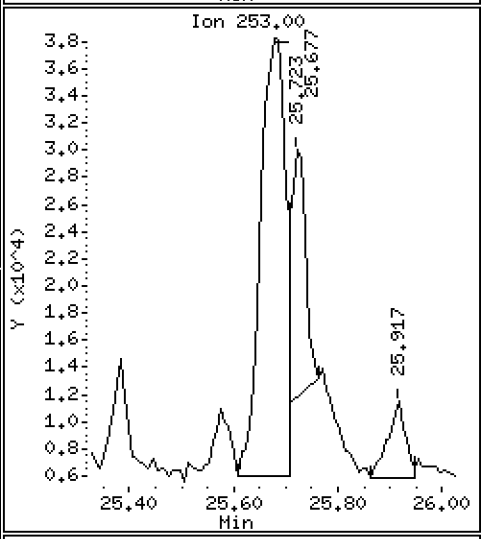
74 Benzo(b)fluoranthene

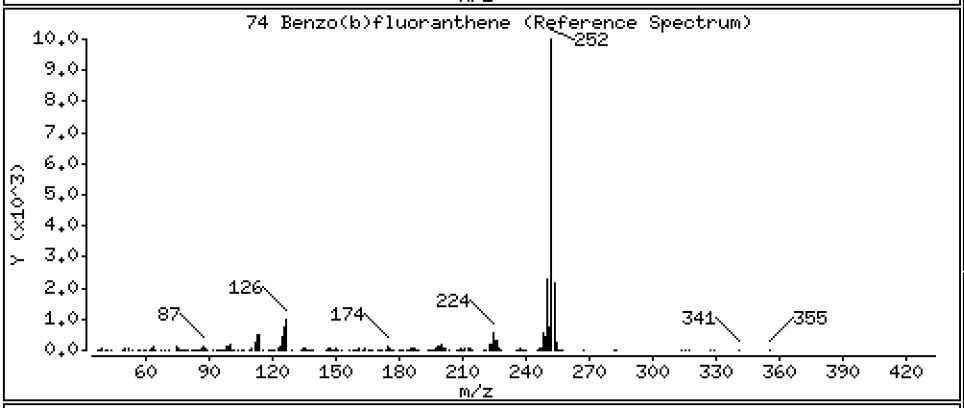
Concentration: 1.923 ug/mL

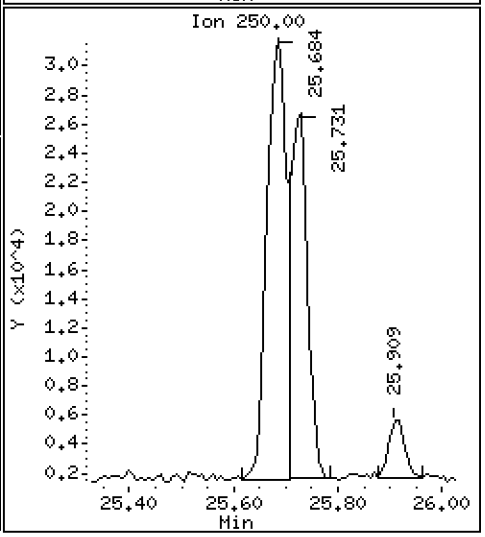


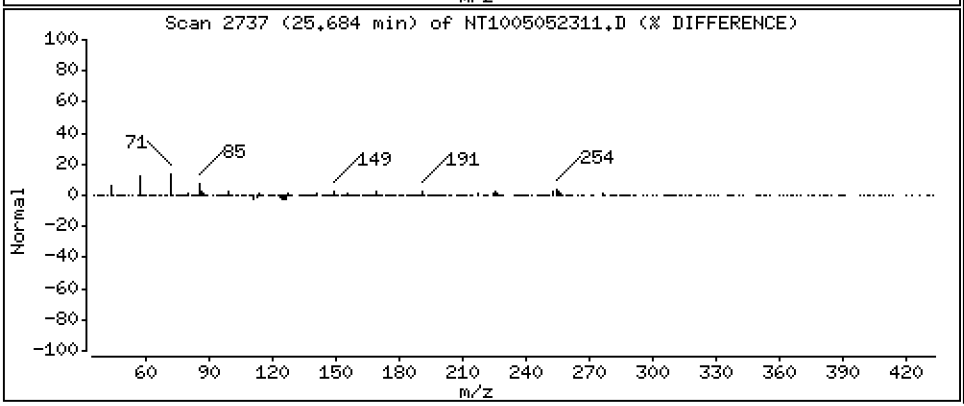












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

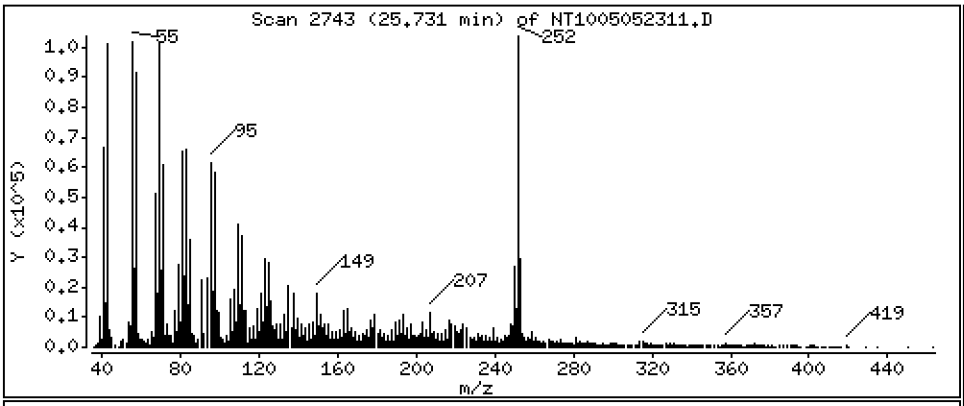
Operator: VTS

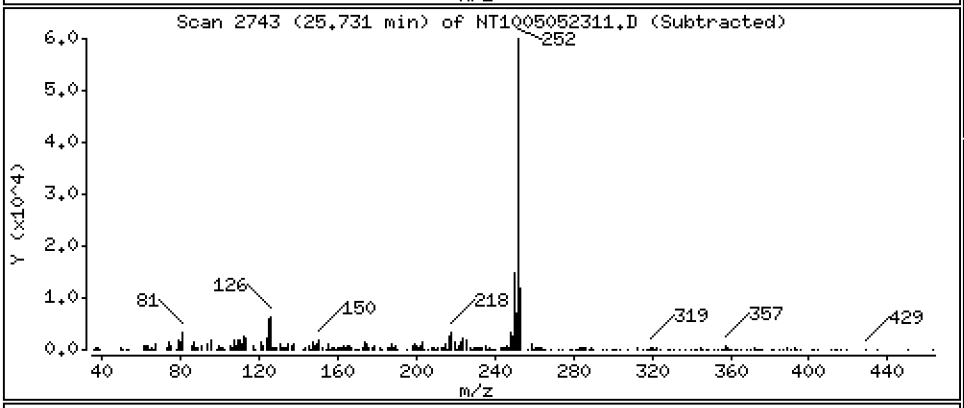
Column phase: ZB-5msi

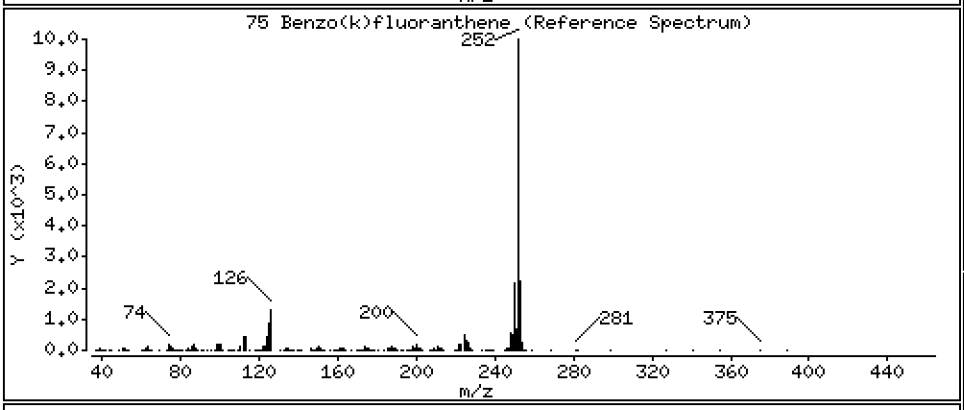
Column diameter: 0.25

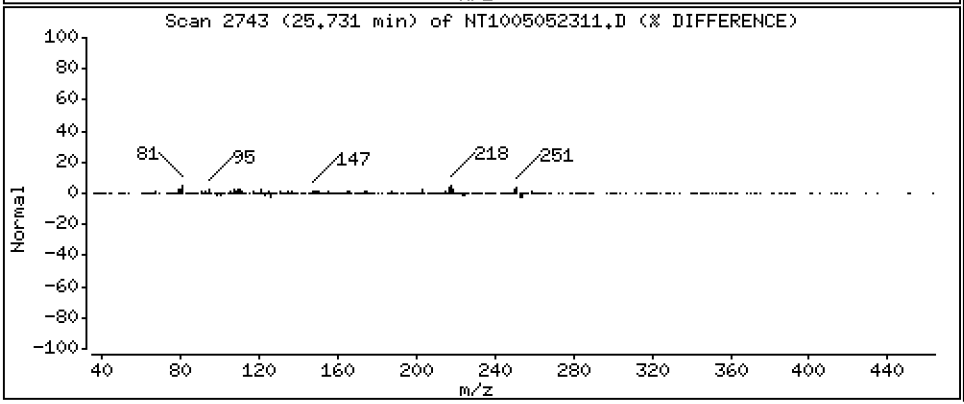
75 Benzo(k)fluoranthene

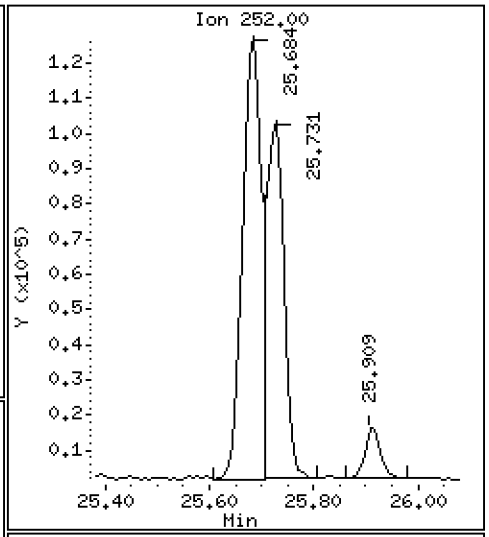
Concentration: 1.376 ug/mL

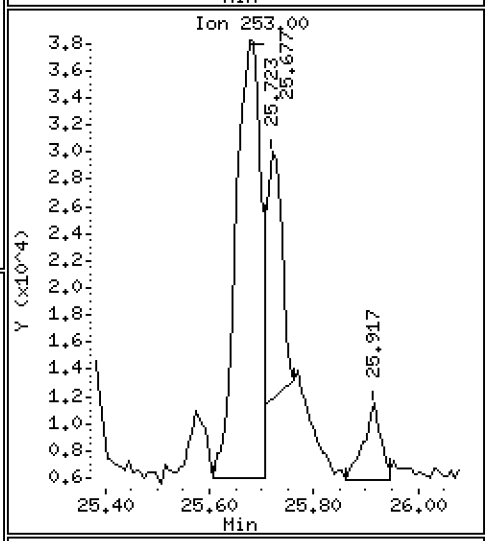


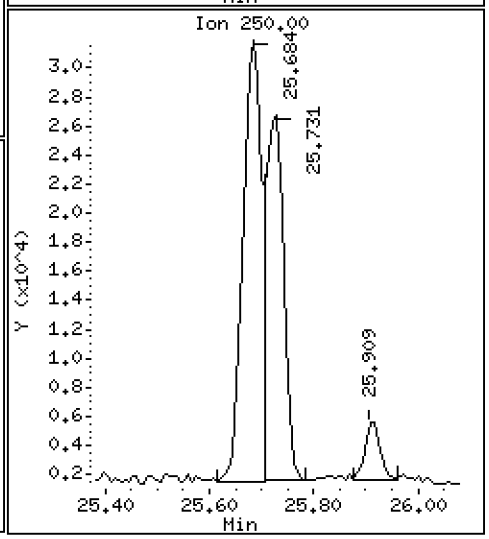












Date : 05-MAY-2023 17:15

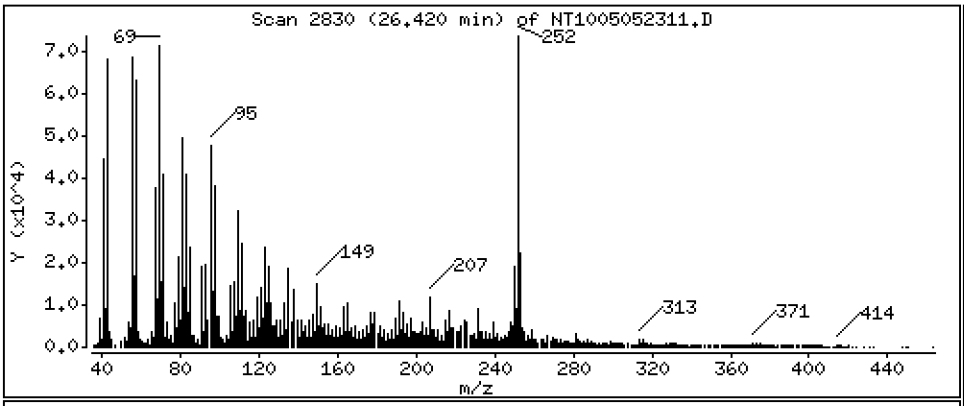
Client ID: Instrument: nt10.i

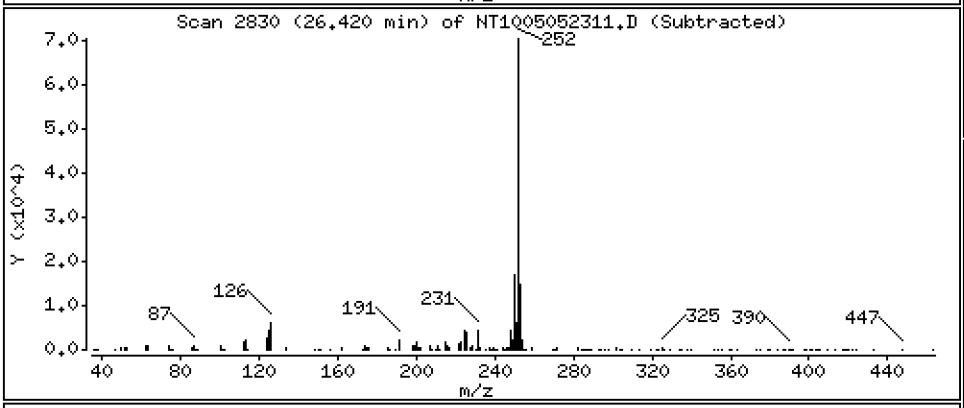
Sample Info: 23D0136-01

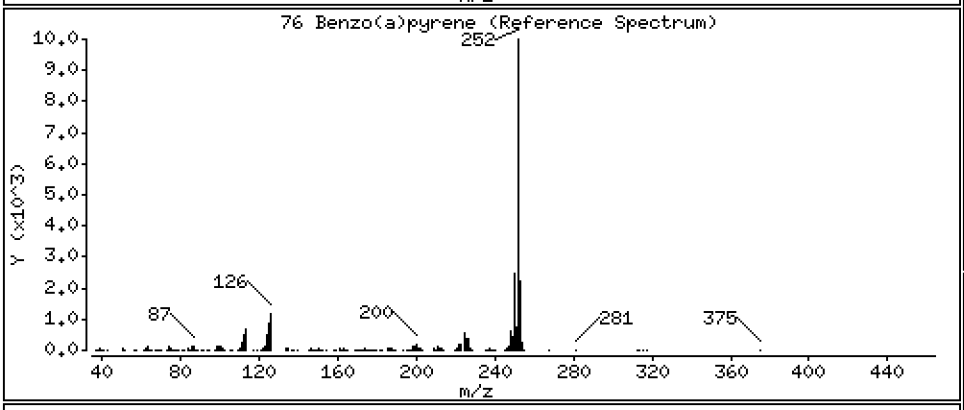
Operator: VTS

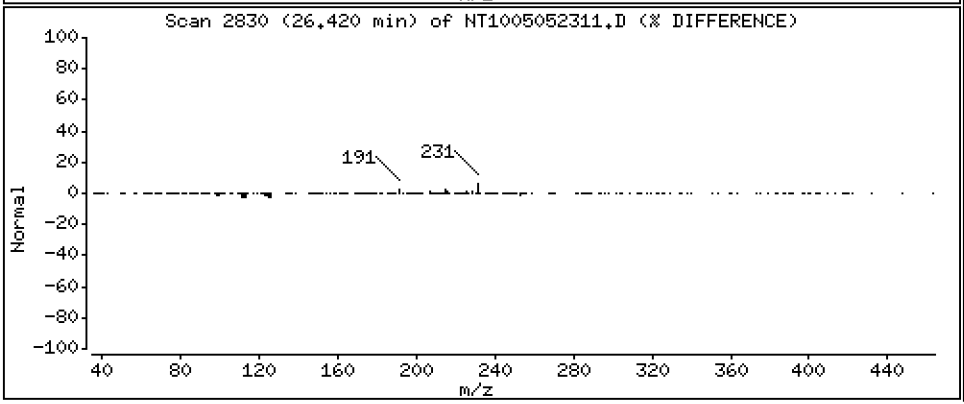
Column phase: ZB-5msi Column diameter: 0.25

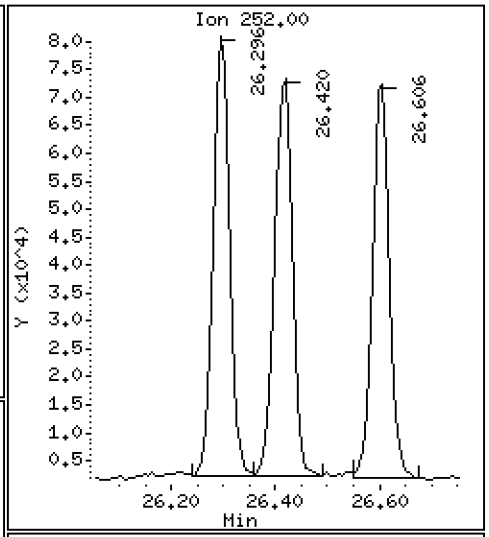
76 Benzo(a)pyrene Concentration: 1.132 ug/mL

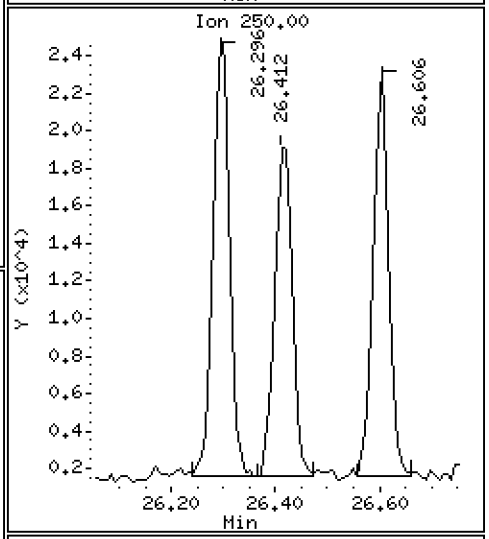


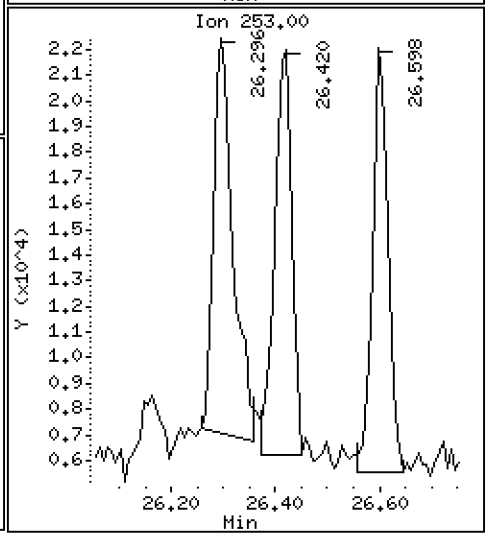












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

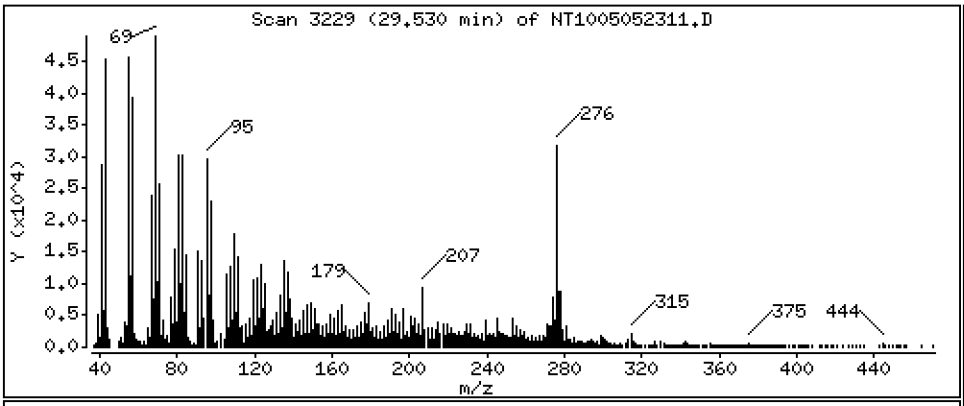
Operator: VTS

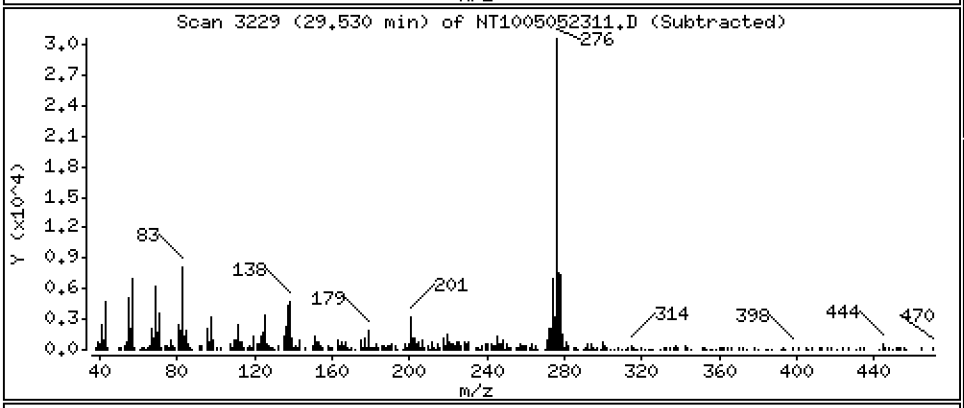
Column phase: ZB-5msi

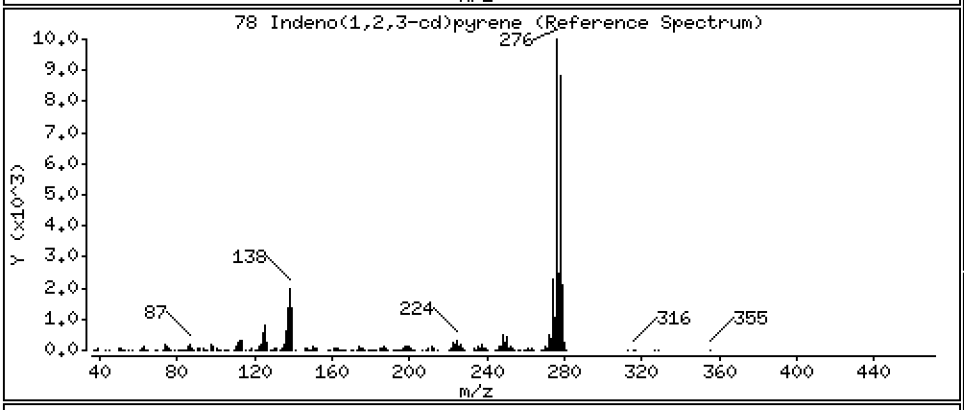
Column diameter: 0.25

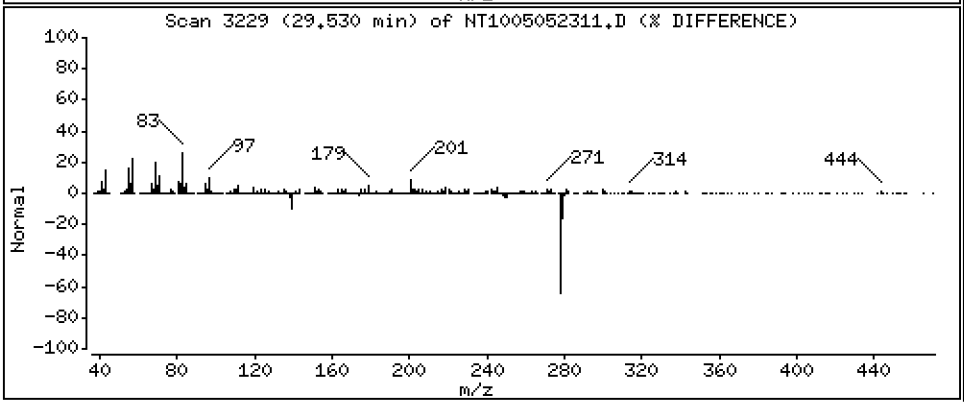
78 Indeno(1,2,3-cd)pyrene

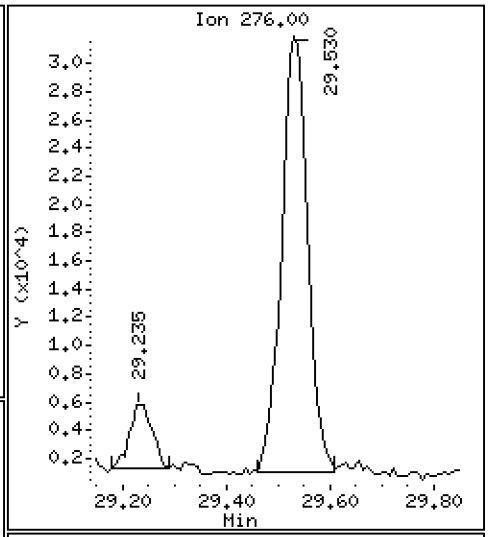
Concentration: 0.6299 ug/mL

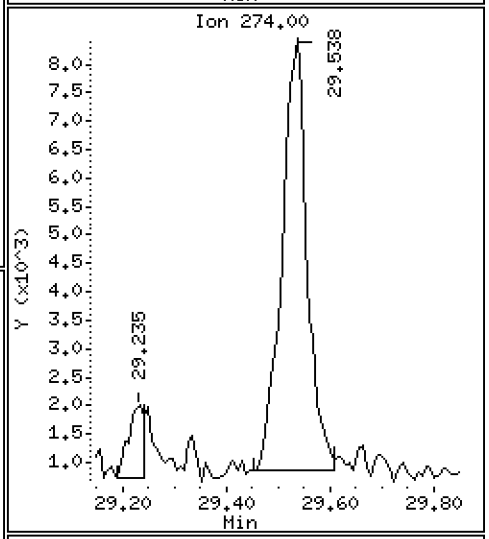


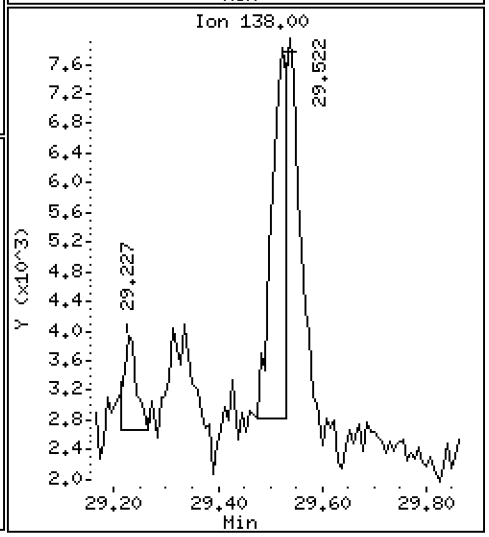












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

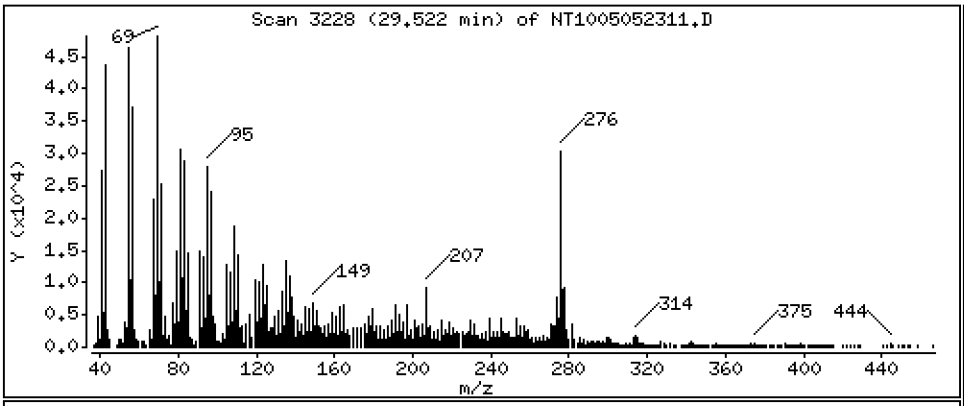
Operator: VTS

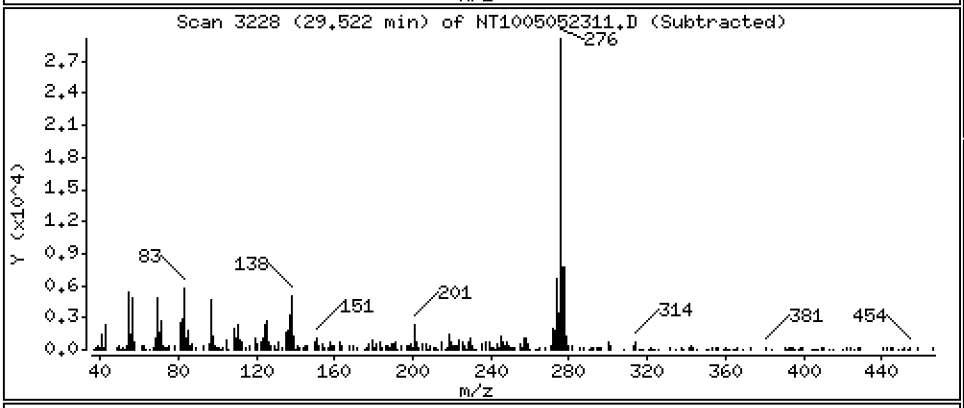
Column phase: ZB-5msi

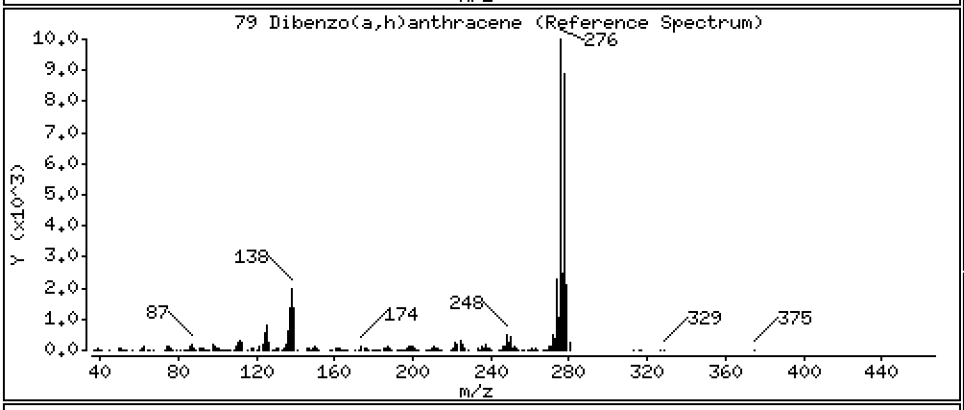
Column diameter: 0.25

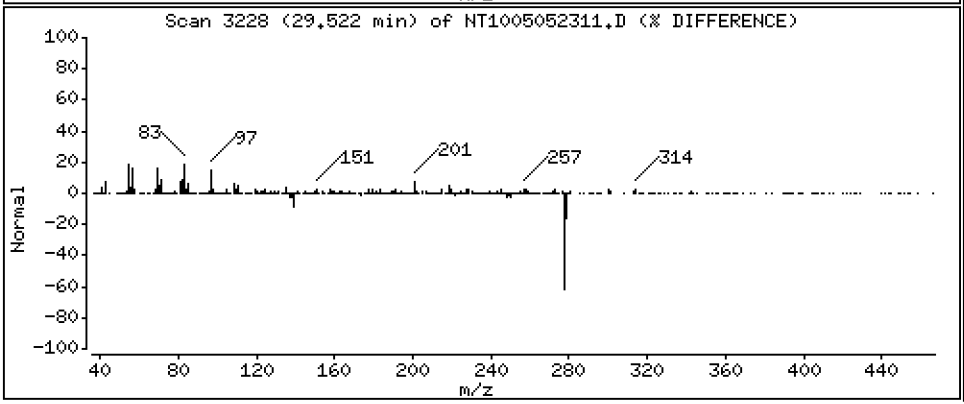
79 Dibenzo(a,h)anthracene

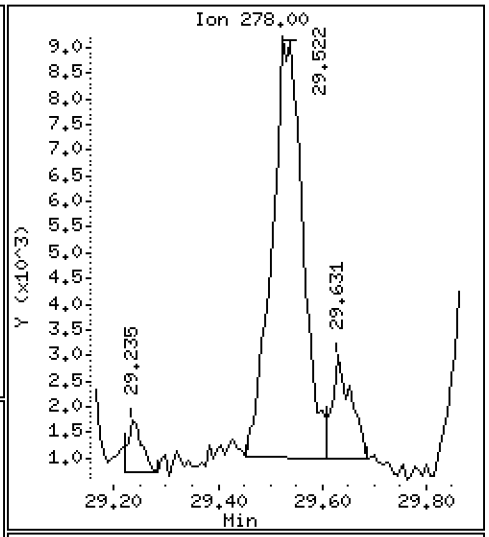
Concentration: 0.2350 ug/mL

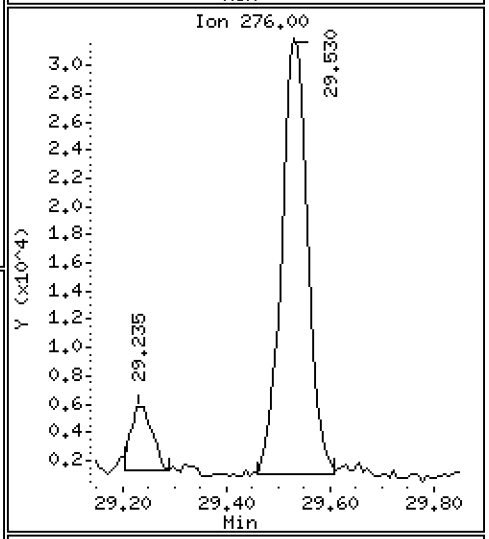


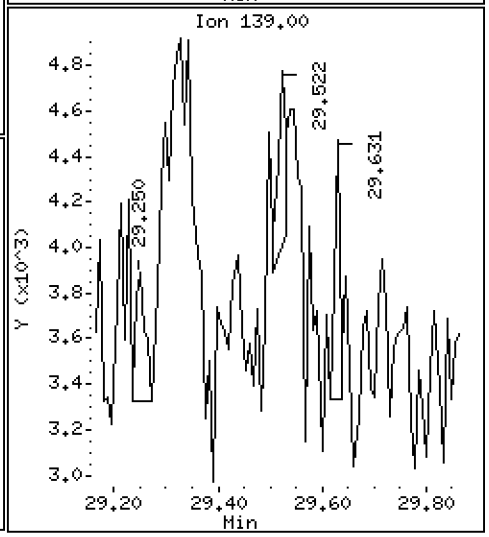












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

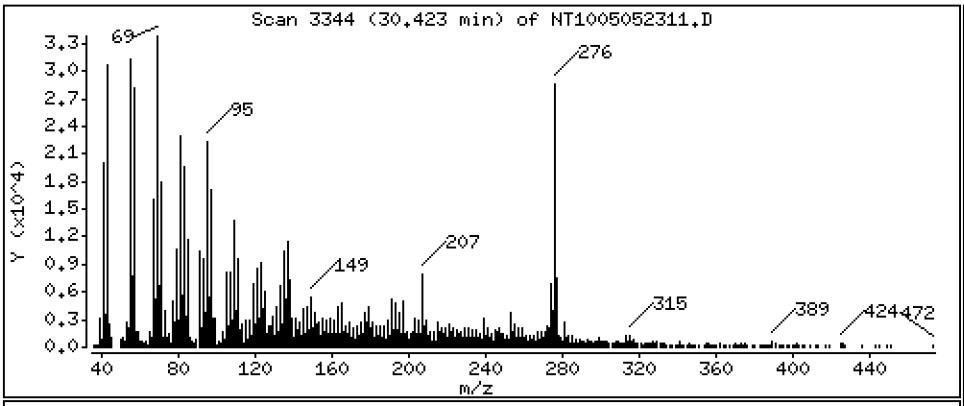
Operator: VTS

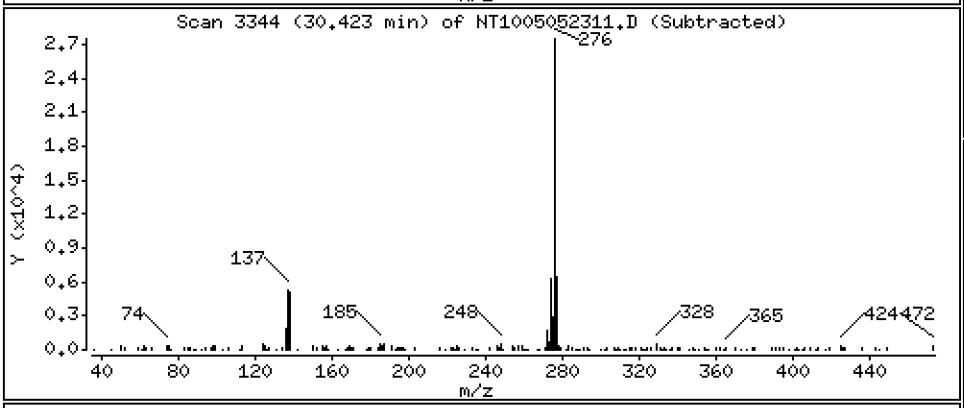
Column phase: ZB-5msi

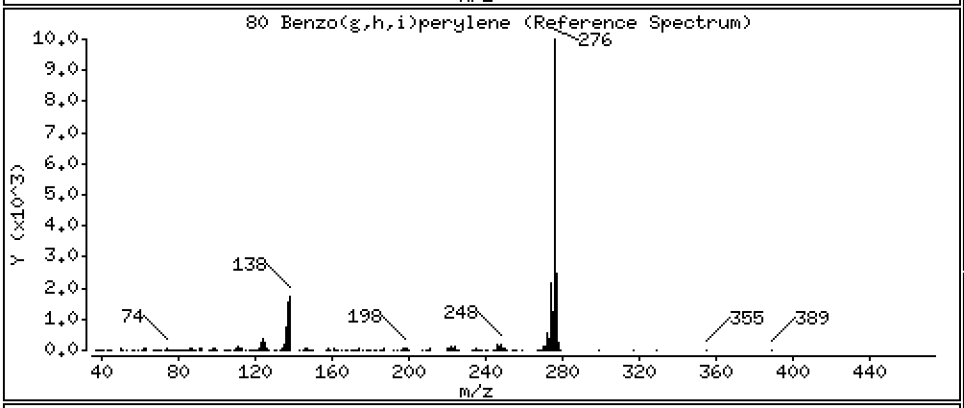
Column diameter: 0.25

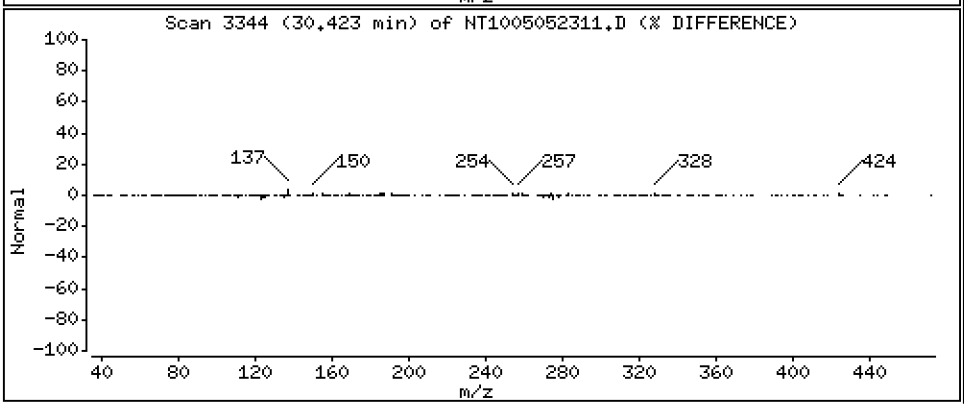
80 Benzo(g,h,i)perylene

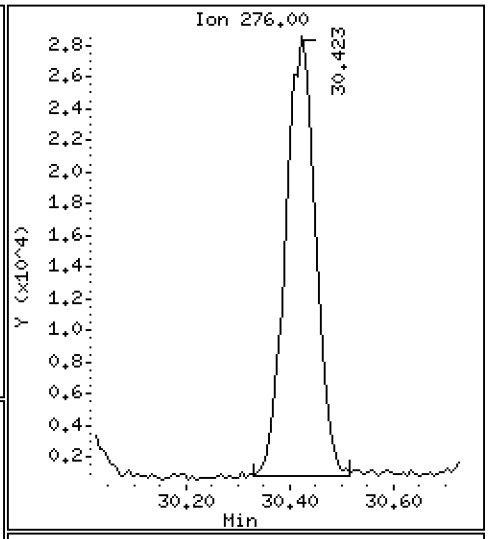
Concentration: 0.8056 ug/mL

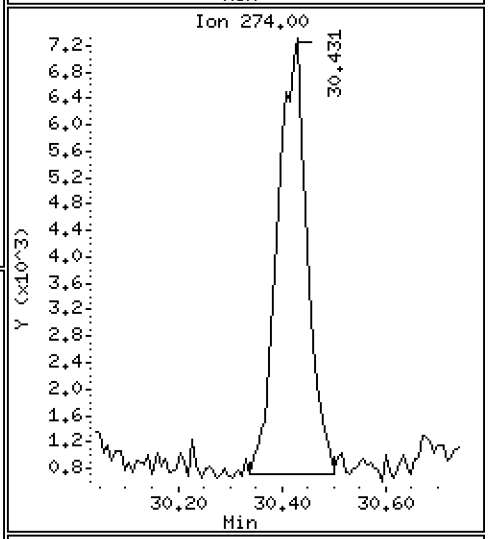


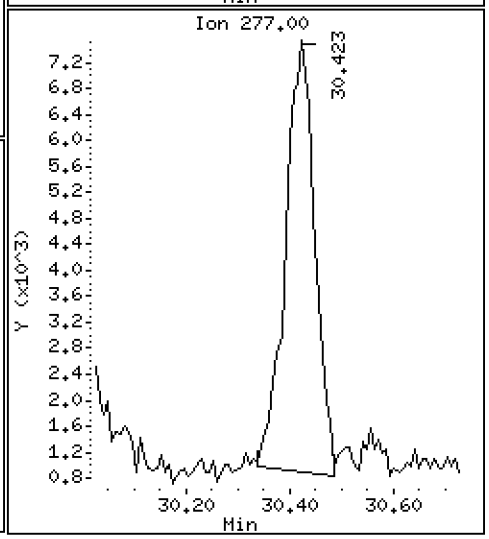












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

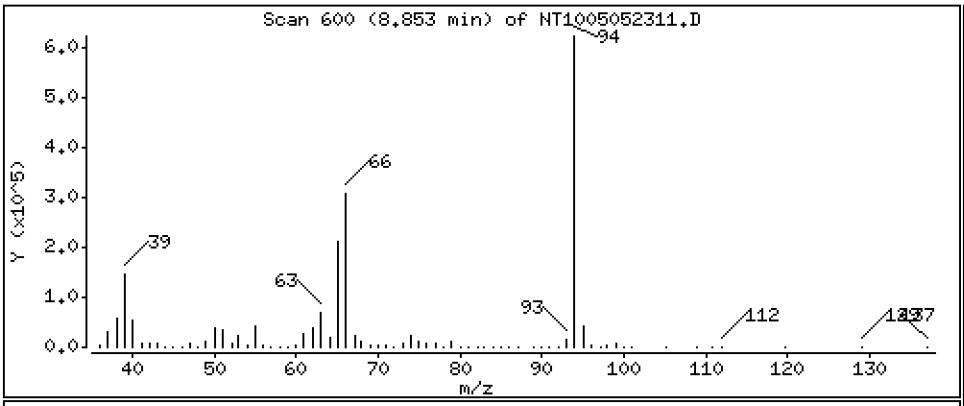
Operator: VTS

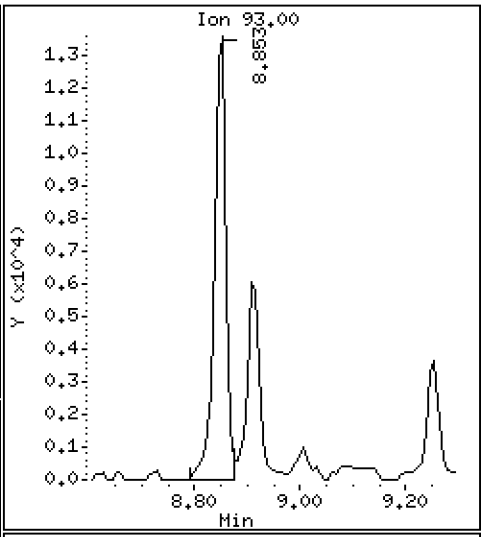
Column phase: ZB-5msi

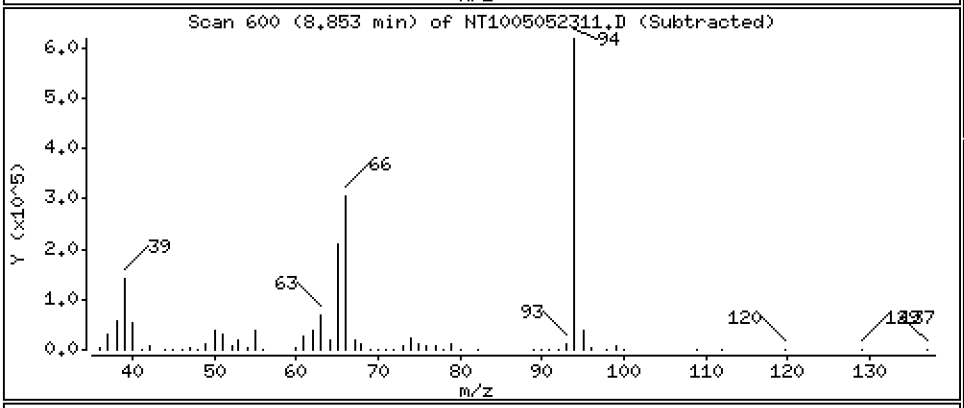
Column diameter: 0.25

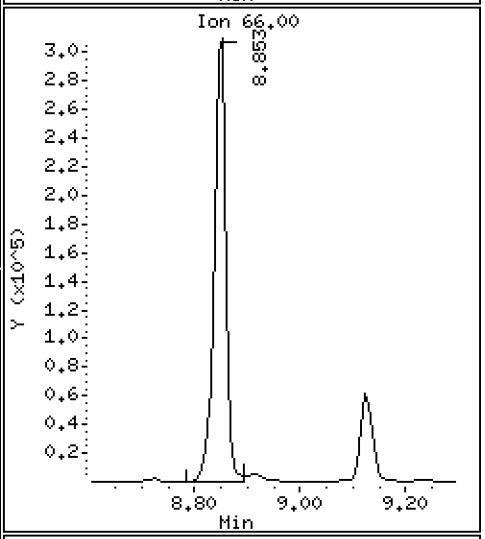
91 Aniline

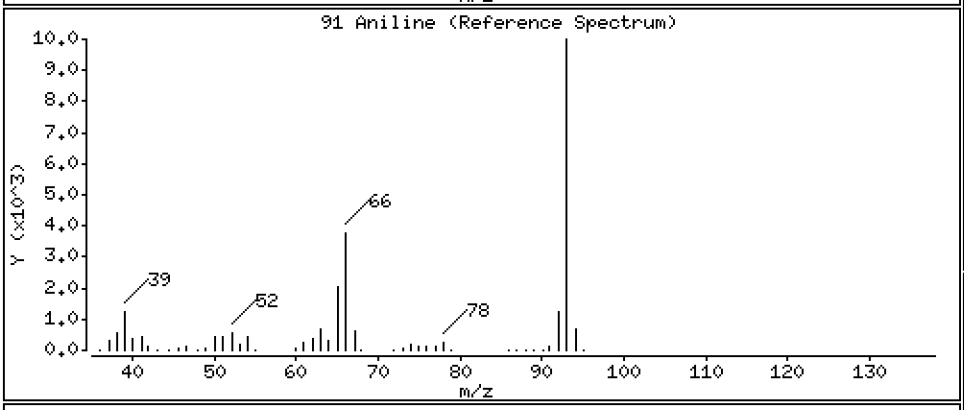
Concentration: 0.4053 ug/mL

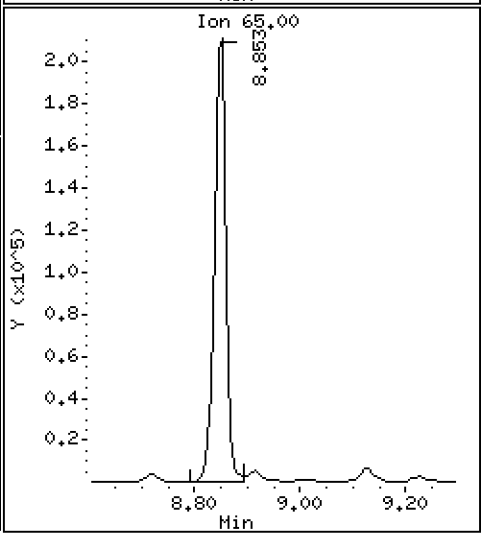


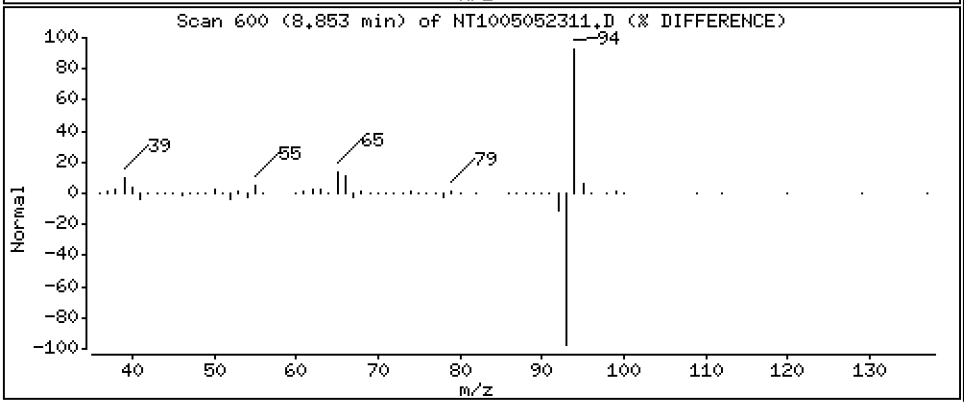












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

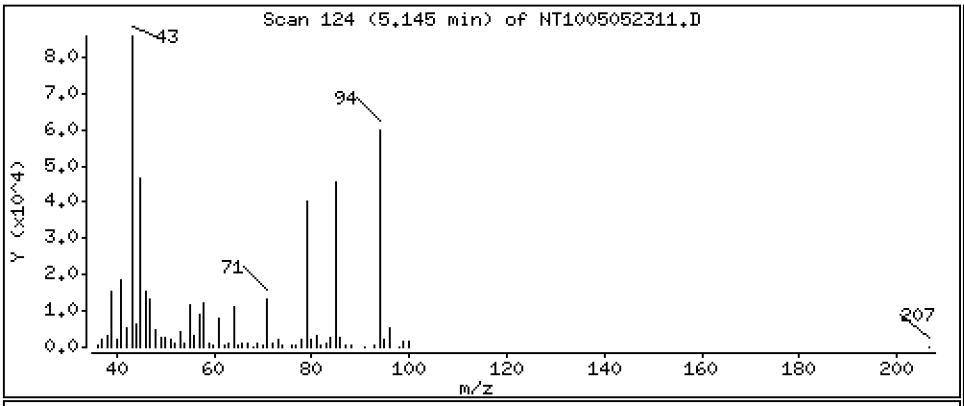
Operator: VTS

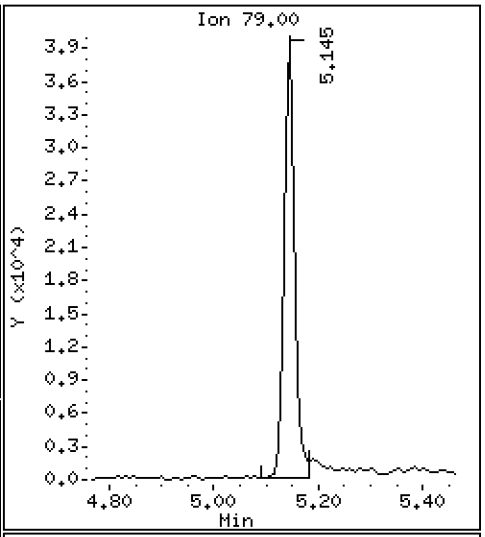
Column phase: ZB-5msi

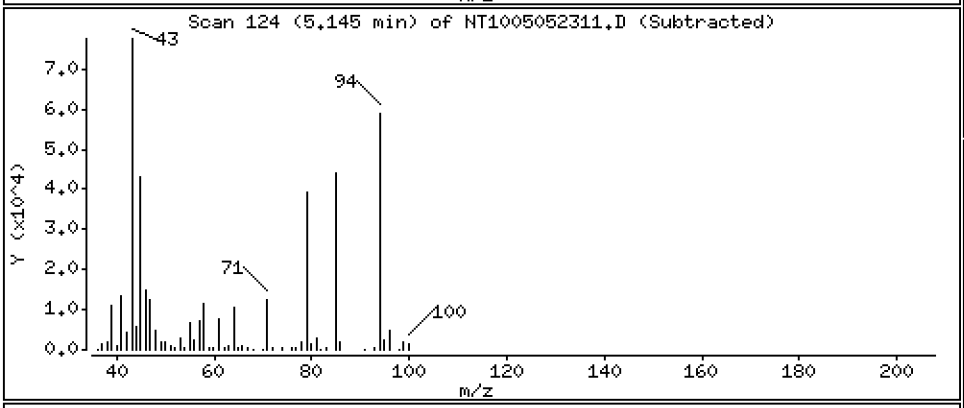
Column diameter: 0.25

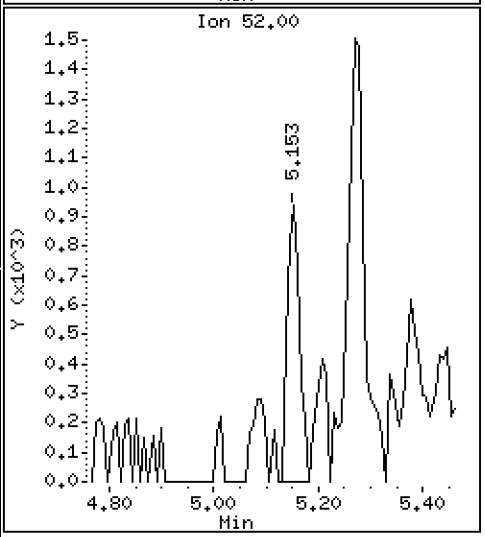
103 Pyridine

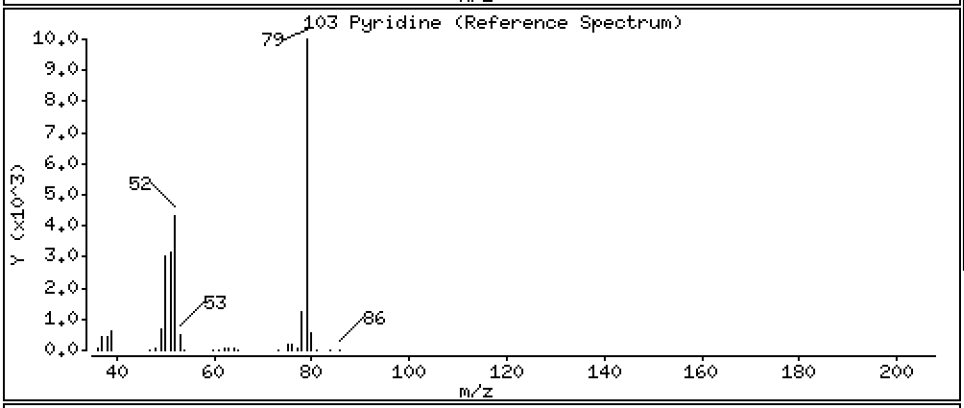
Concentration: 1.354 ug/mL

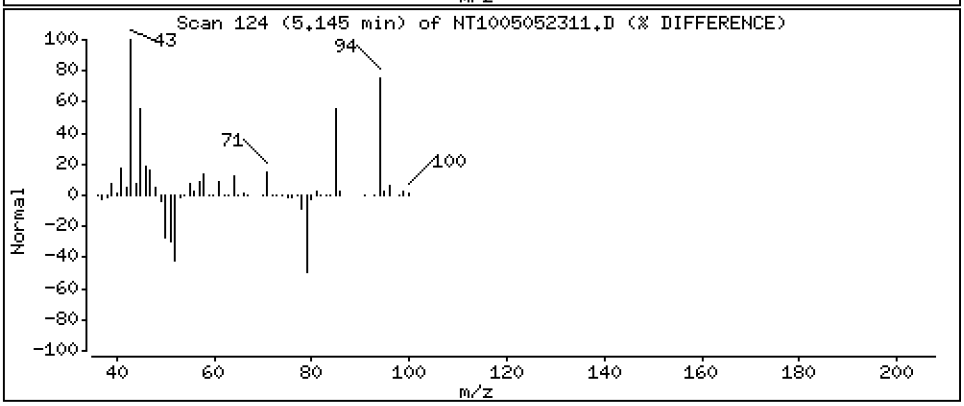












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

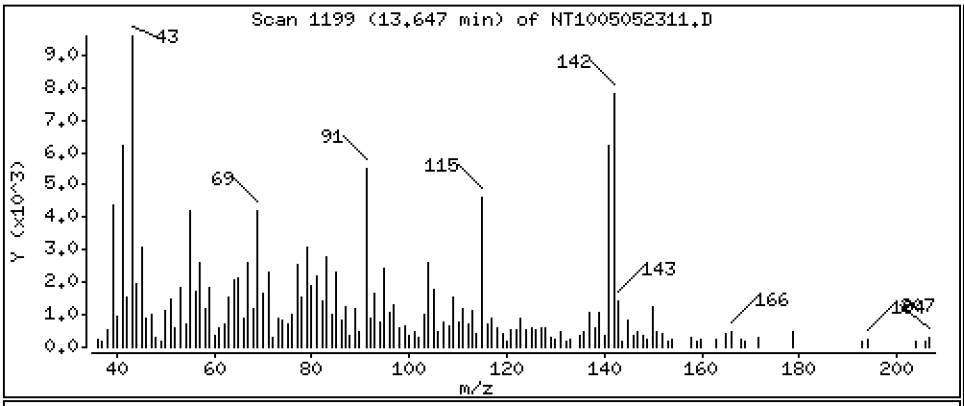
Operator: VTS

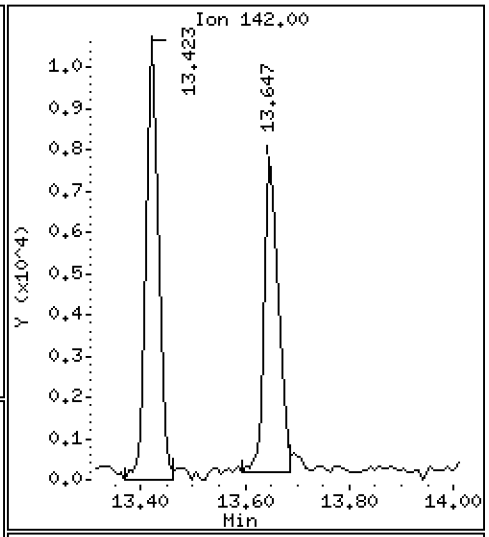
Column phase: ZB-5msi

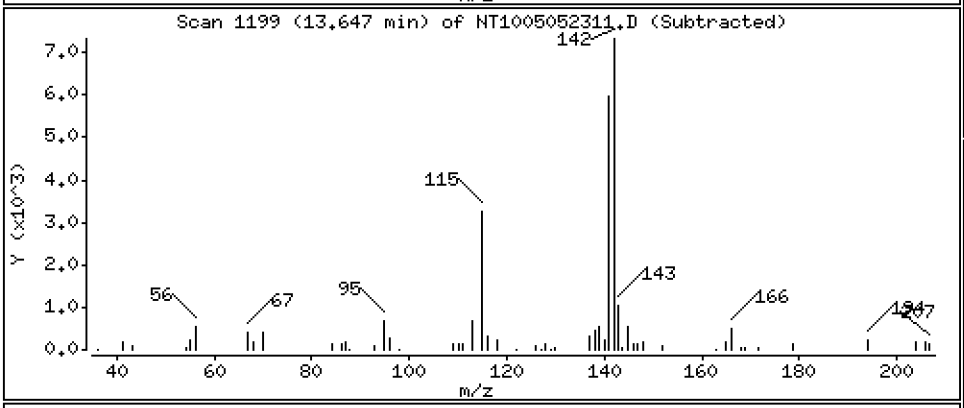
Column diameter: 0.25

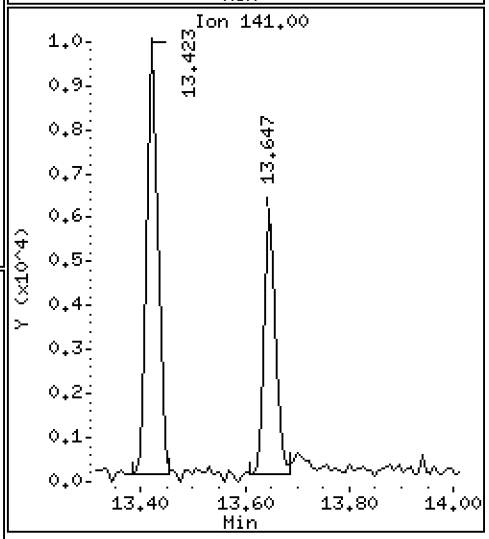
105 1-methylnaphthalene

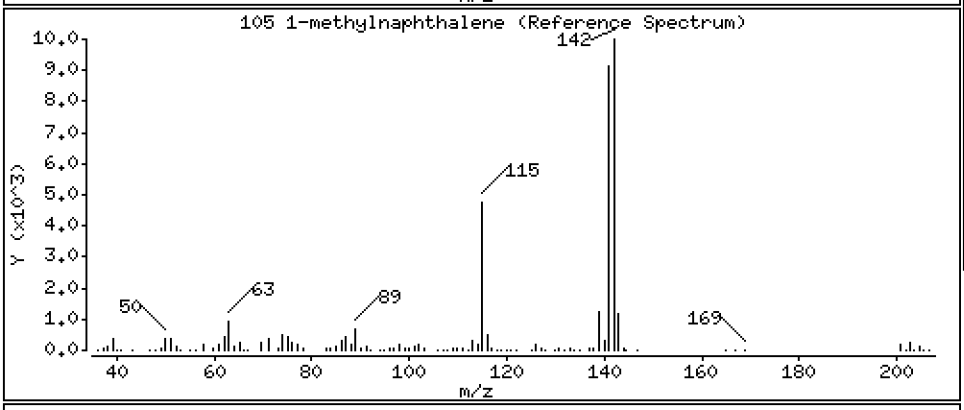
Concentration: 0.1194 ug/mL

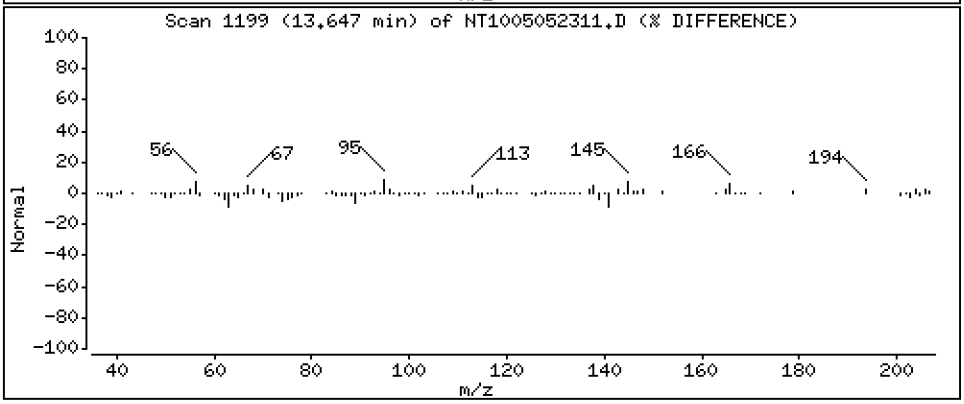












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

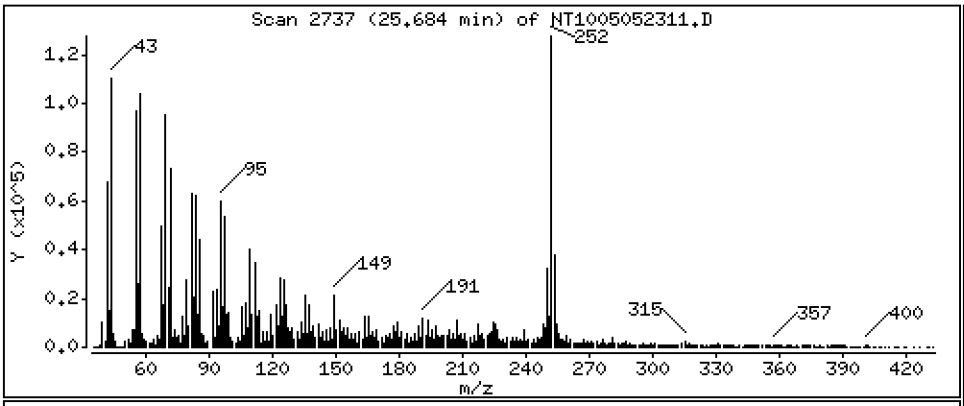
Operator: VTS

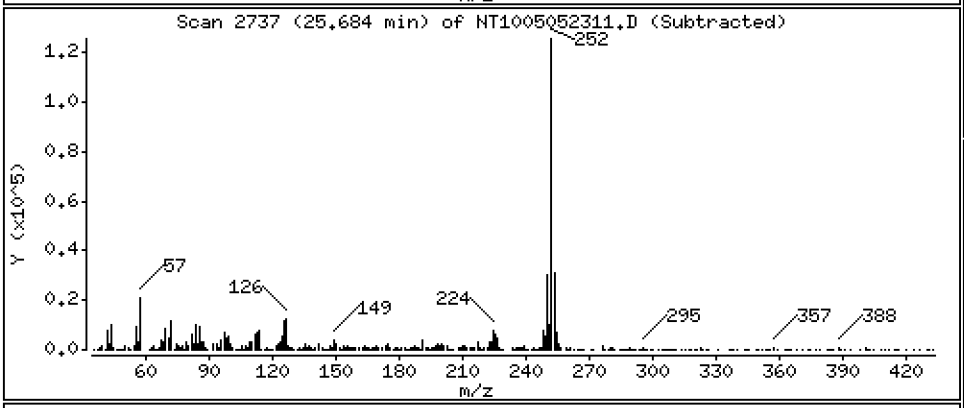
Column phase: ZB-5msi

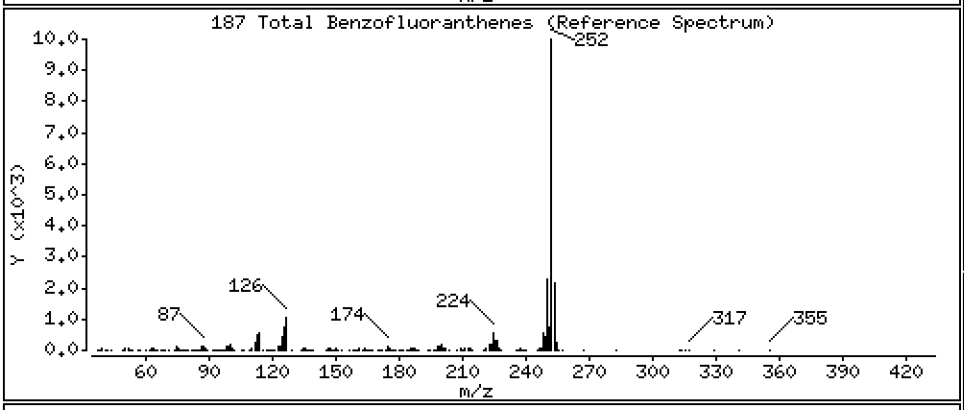
Column diameter: 0.25

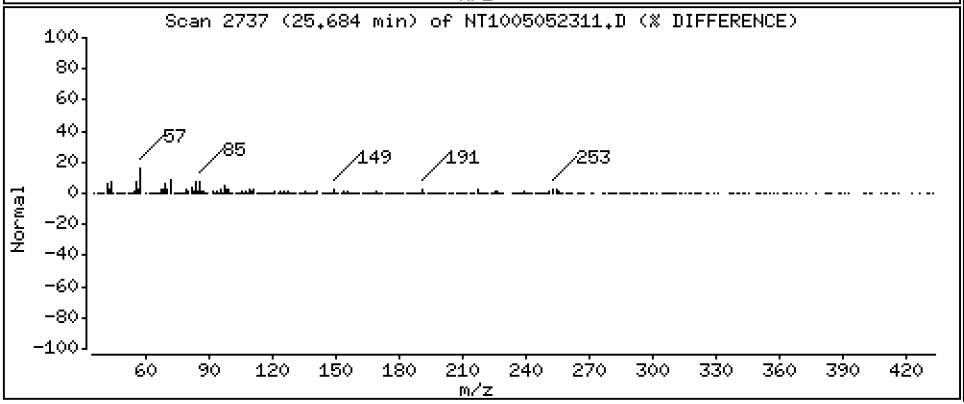
187 Total Benzofluoranthenes

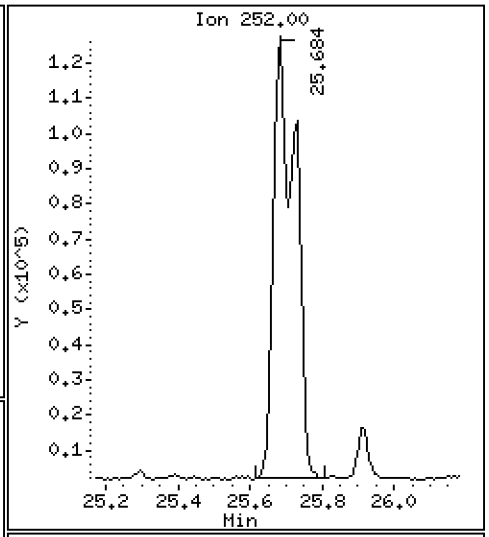
Concentration: 3.183 ug/mL

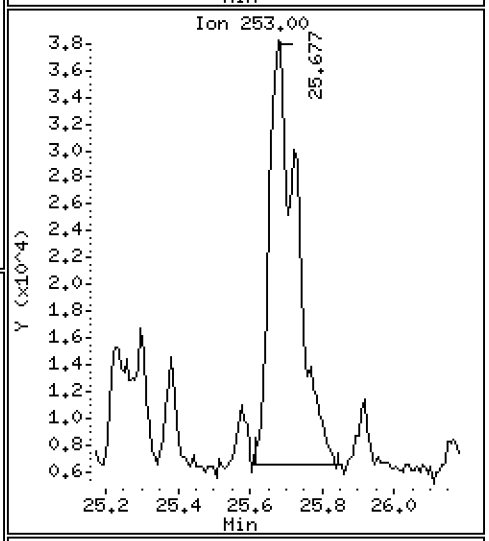


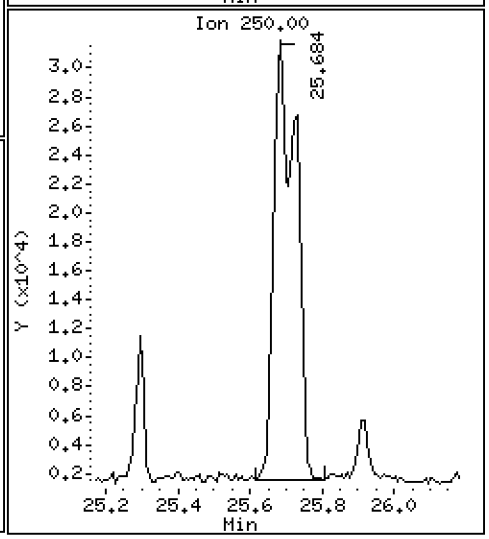












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052311.D
Lab Smp Id: 23D0136-01
Inj Date : 05-MAY-2023 17:15
Operator : VTS Inst ID: nt10.i
Smp Info : 23D0136-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.246	7.253	(1.000)	192812	3.83964	3.840	
$	2 Phenol-d5	99	8.830	8.830	(1.000)	276156	4.56139	4.561	
	3 Phenol	94	8.853	8.853	(1.000)	952934	14.7209	14.72	
$	5 2-Chlorophenol-d4	132	9.123	9.139	(1.000)	289898	4.99657	4.997	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.495	9.502	(1.000)	165950	4.00000		(M)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.852	9.867	(1.000)	132694	3.10014	3.100	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.758	9.766	(1.000)	71706	2.30458	2.305	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	Compound Not Detected.						
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	10.240	10.240	(1.000)	12845	0.22536	0.2254	
$	18 Nitrobenzene-d5	82	10.589	10.604	(0.884)	252117	3.55880	3.559	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.402	11.486	(0.951)	68383	1.47773	1.478	
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.983	11.999	(1.000)	633949	4.00000		
	28 Naphthalene	128	12.030	12.037	(1.004)	33141	0.18737	0.1874	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.422	13.437	(1.120)	17625	0.13328	0.1333	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	14.204	14.211	(0.910)	549770	3.68869	3.689
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	15.101	15.109	(0.967)	10185	0.07716	0.07716
	40 Acenaphthylene	152	15.303	15.310	(0.980)	23093	0.12603	0.1260
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.612	15.628	(1.000)	344264	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	15.682	15.689	(1.004)	17384	0.14917	0.1492
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	16.006	16.014	(1.025)	29322	0.17257	0.1726
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	16.555	16.571	(1.060)	31113	0.22702	0.2270
	49 Fluorene	166	16.725	16.733	(1.071)	30124	0.21491	0.2149
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	17.257	17.265	(1.105)	109839	6.42425	6.424
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.671	18.679	(1.000)	665495	4.00000	
	60 Phenanthrene	178	18.718	18.726	(1.002)	169431	0.86767	0.8677
	61 Anthracene	178	18.811	18.818	(1.007)	96286	0.53360	0.5336
	62 Carbazole	167	19.136	19.136	(1.025)	31853	0.19942	0.1994
	63 Di-n-butylphthalate	149	19.902	19.902	(1.066)	14702	0.06155	0.06155
	64 Fluoranthene	202	21.093	21.085	(0.890)	578888	2.68739	2.687
	65 Pyrene	202	21.511	21.511	(0.908)	500816	2.32739	2.327
$	66 Terphenyl-d14	244	21.782	21.782	(0.919)	633034	3.71968	3.720
	67 Butylbenzylphthalate	149	22.695	22.695	(0.958)	19887	0.19714	0.1971
	68 Benzo(a)anthracene	228	23.663	23.663	(0.999)	210735	1.10332	1.103
*	69 Chrysene-d12	240	23.694	23.694	(1.000)	482469	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.733	23.741	(1.002)	347500	2.03274	2.033
	72 bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	252369	1.85535	1.855
*	134 Di-n-octylphthalate-d4	153	24.739	24.739	(1.000)	944282	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	25.684	25.676	(0.968)	333782	1.92300	1.923
	75 Benzo(k)fluoranthene	252	25.730	25.730	(0.969)	236933	1.37560	1.376
	76 Benzo(a)pyrene	252	26.419	26.404	(0.995)	164451	1.13193	1.132
*	77 Perylene-d12	264	26.543	26.528	(1.000)	422532	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.530	29.498	(1.113)	109936	0.62988	0.6299
	79 Dibenzo(a,h)anthracene	278	29.522	29.514	(1.112)	34343	0.23495	0.2350
	80 Benzo(g,h,i)perylene	276	30.423	30.376	(1.146)	112065	0.80556	0.8056
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	8.853	8.953	(1.000)	21623	0.40529	0.4053
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	5.144	5.114	(1.000)	57912	1.35401	1.354
	105 1-methylnaphthalene	142	13.646	13.662	(1.139)	14474	0.11938	0.1194
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.684	25.676	(0.968)	531895	3.18349	3.183
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052311.D
Lab Smp Id: 23D0136-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	165950	-7.53
27 Naphthalene-d8	621628	310814	1243256	633949	1.98
42 Acenaphthene-d10	353112	176556	706224	344264	-2.51
59 Phenanthrene-d10	694933	347467	1389866	665495	-4.24
69 Chrysene-d12	553967	276984	1107934	482469	-12.91
134 Di-n-octylphthala	895601	447801	1791202	944282	5.44
77 Perylene-d12	482573	241287	965146	422532	-12.44

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	-0.08
27 Naphthalene-d8	12.00	11.50	12.50	11.98	-0.13
42 Acenaphthene-d10	15.63	15.13	16.13	15.61	-0.10
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.69	0.00
134 Di-n-octylphthala	24.74	24.24	25.24	24.74	0.00
77 Perylene-d12	26.53	26.03	27.03	26.54	0.06

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

REVIEW SUMMARY FOR FILE - NT1005052311.D

Lab ID: 23D0136-01
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 17:15

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.957	-0.0059	Benzoic acid

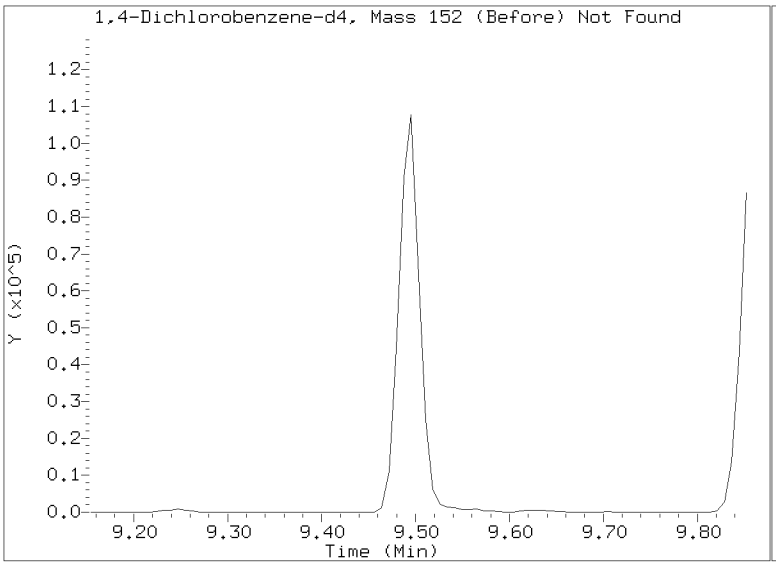
RRT check based on Ccal File: NT1005052303.D

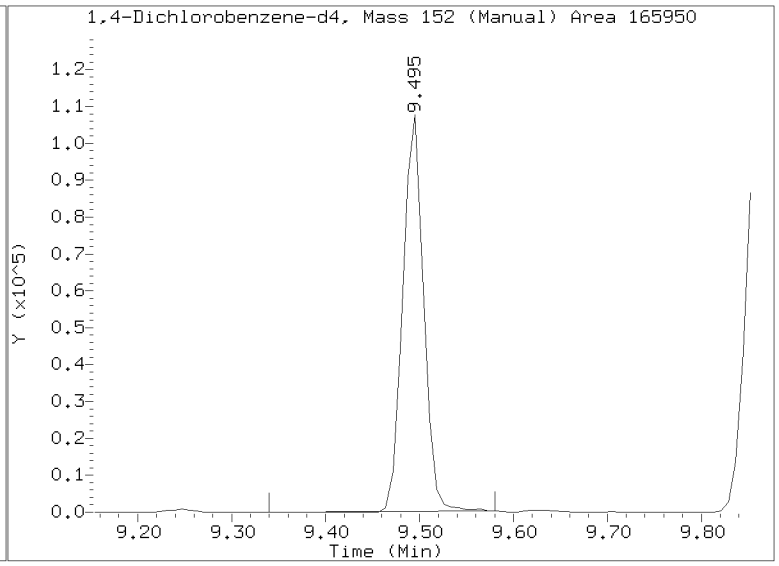
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052311.D
Injection Date: 05-MAY-2023 17:15
Lab ID:23D0136-01 Client ID:
Report Date: 05/08/2023 10:15





APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1803

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 A	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/18/23 11:16	File ID:	NT1005052312.D
% Solids:	44.31	Preparation:	EPA 3546 (Microwave)	Analyzed:	05/05/23 17:54
Batch:	BLD0329	Sequence:	SLE0101	Initial/Final:	22.58 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GE00012
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	109		4.4	20.0
106-44-5	4-Methylphenol	1	76.8		7.4	20.0
91-20-3	Naphthalene	1	21.7		4.2	20.0
91-57-6	2-Methylnaphthalene	1	16.4	J	4.5	20.0
208-96-8	Acenaphthylene	1	14.2	J	6.2	20.0
131-11-3	Dimethylphthalate	1	7.2	J	4.4	20.0
83-32-9	Acenaphthene	1	15.9	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.3		14.1	20.0
86-73-7	Fluorene	1	23.7		14.6	20.0
85-01-8	Phenanthrene	1	92.0		8.7	20.0
120-12-7	Anthracene	1	60.4		7.2	20.0
206-44-0	Fluoranthene	1	258		6.1	20.0
129-00-0	Pyrene	1	235		5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.8		9.4	20.0
56-55-3	Benzo(a)anthracene	1	135		6.0	20.0
218-01-9	Chrysene	1	233		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	196		5.5	50.0
	Benzofluoranthenes, Total	1	377		10.0	40.0
50-32-8	Benzo(a)pyrene	1	136		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	68.9		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	24.3		17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	87.0		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.61	554	73.9	27 - 120	
Phenol-d5	749.61	586	78.1	29 - 120	
2-Chlorophenol-d4	749.61	641	85.5	31 - 120	
1,2-Dichlorobenzene-d4	499.74	367	73.5	32 - 120	
Nitrobenzene-d5	499.74	421	84.3	30 - 120	
2-Fluorobiphenyl	499.74	411	82.3	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1803

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

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

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 A	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/18/23 11:16	File ID:	NT1005052312.D
% Solids:	44.31	Preparation:	EPA 3546 (Microwave)	Analyzed:	05/05/23 17:54
Batch:	BLD0329	Sequence:	SLE0101	Initial/Final:	22.58 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GE00012
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.61	683	91.2	24 - 134	
p-Terphenyl-d14	499.74	386	77.2	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

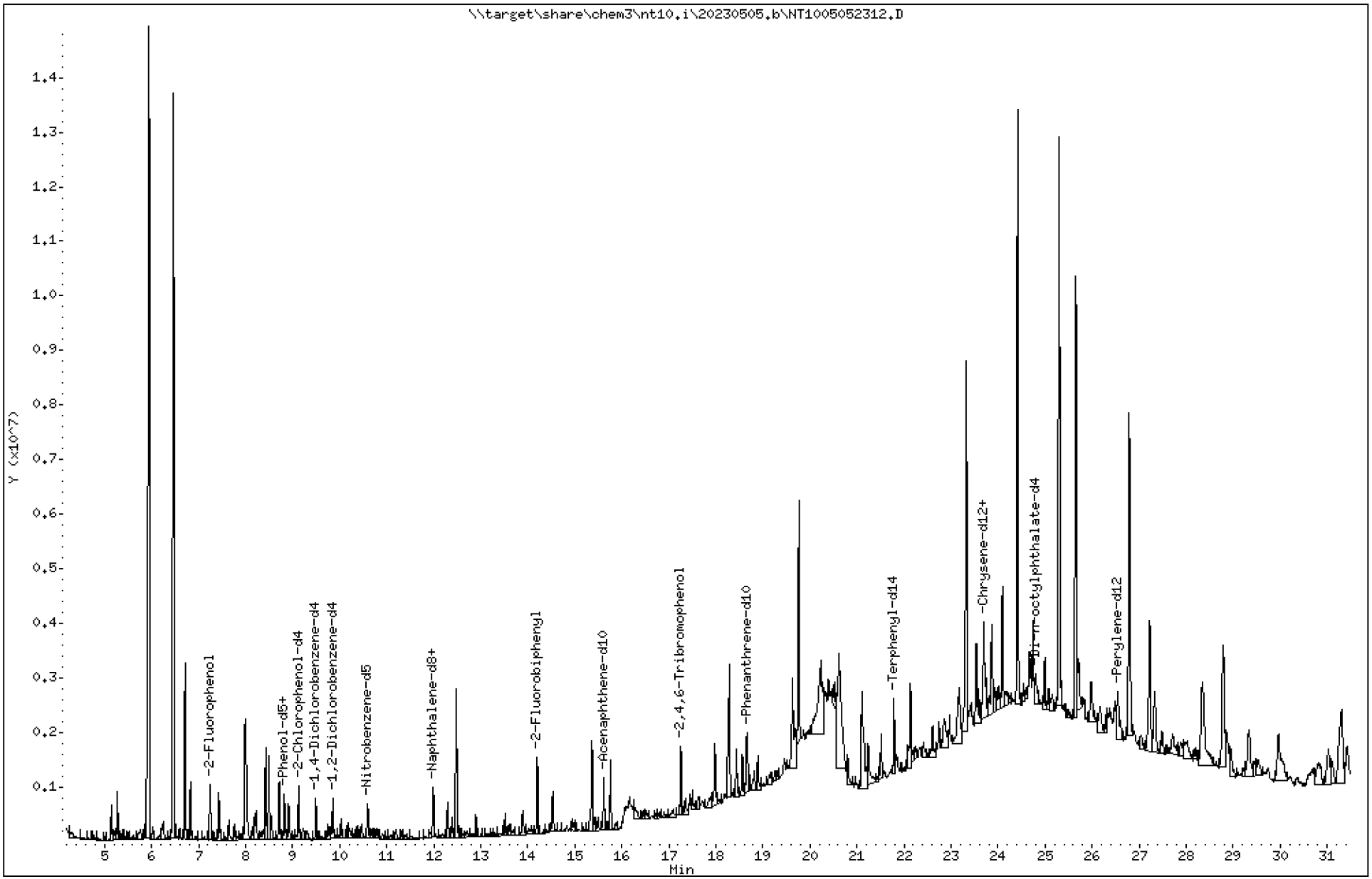
Instrument: nt10.i

Sample Info: 23D0136-03

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 57 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

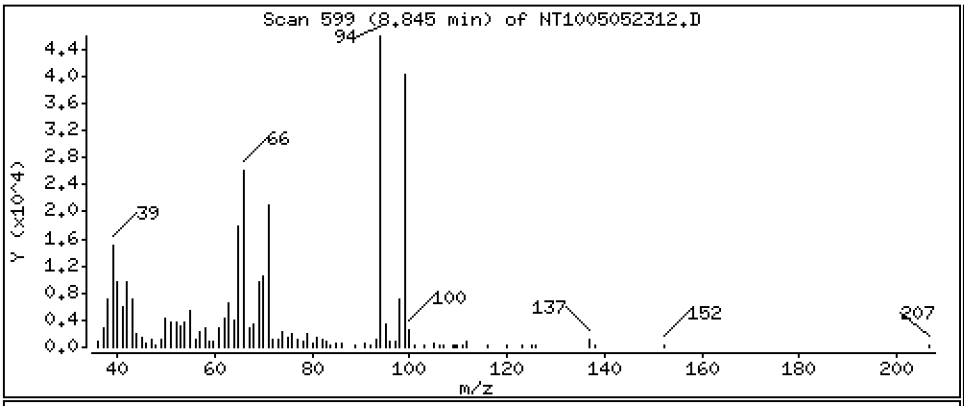
Operator: VTS

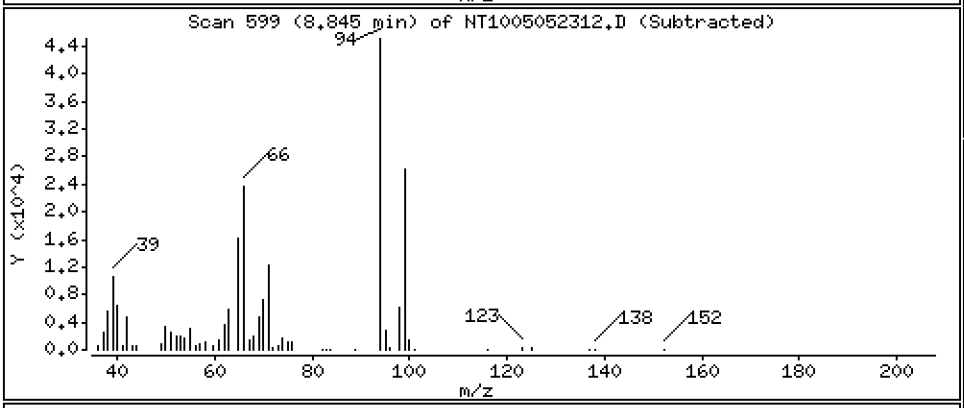
Column phase: ZB-5msi

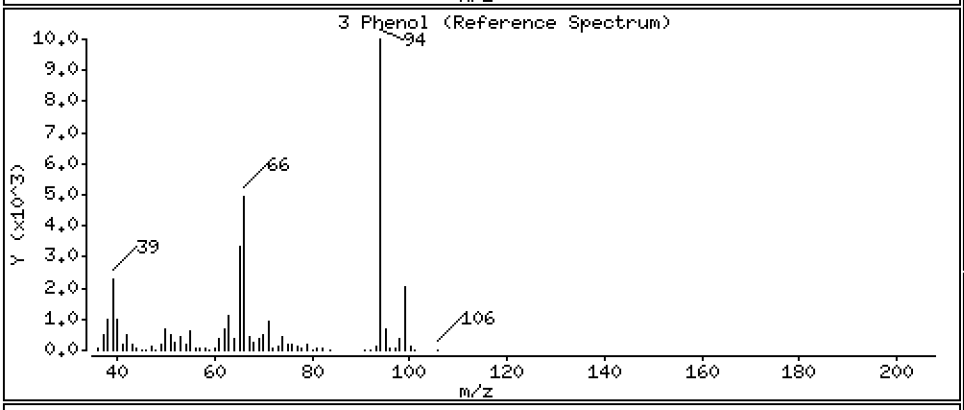
Column diameter: 0.25

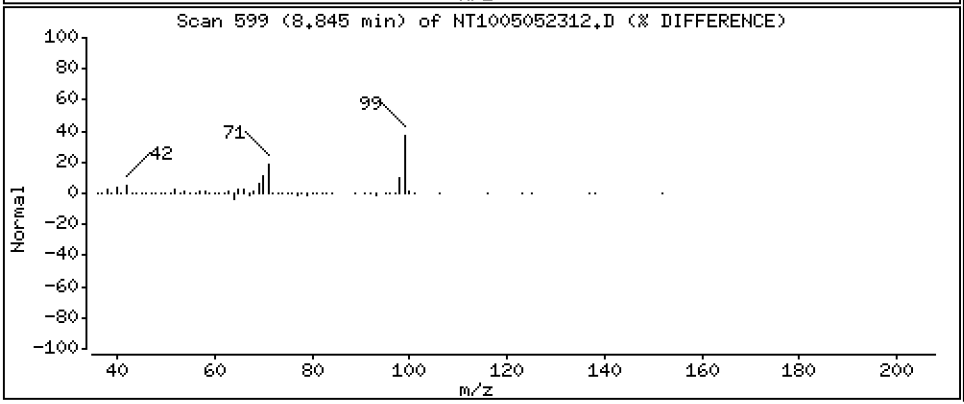
3 Phenol

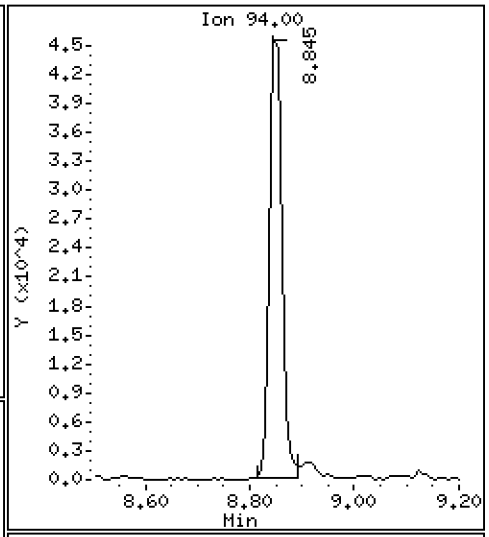
Concentration: 1.095 ug/mL

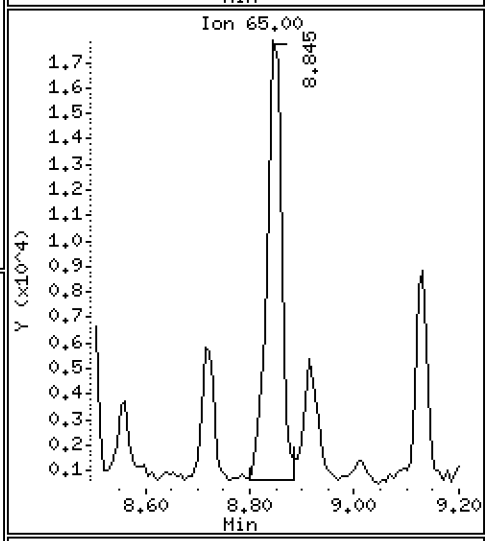


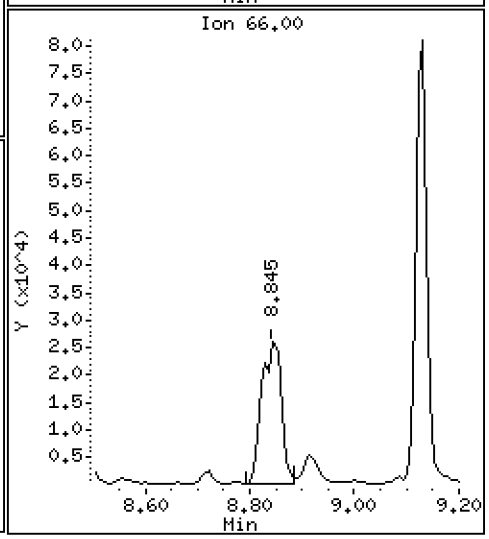












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

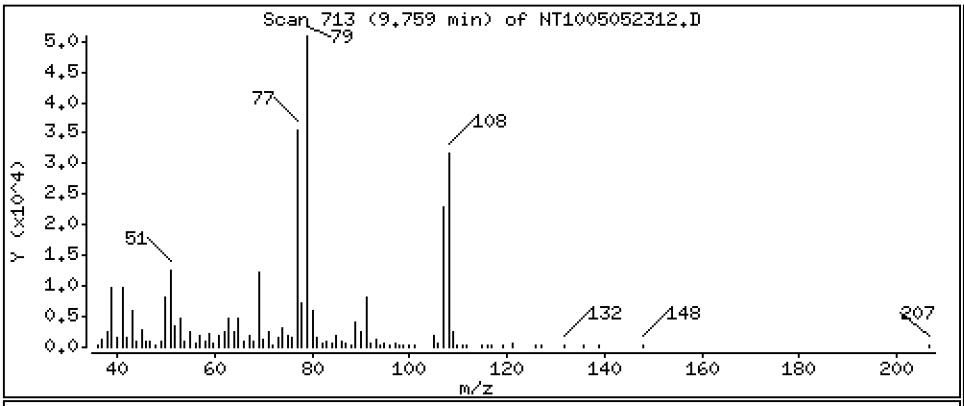
Operator: VTS

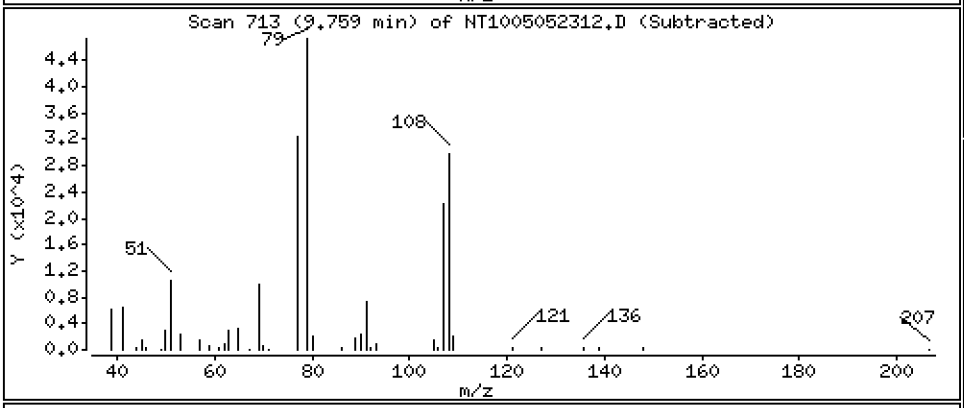
Column phase: ZB-5msi

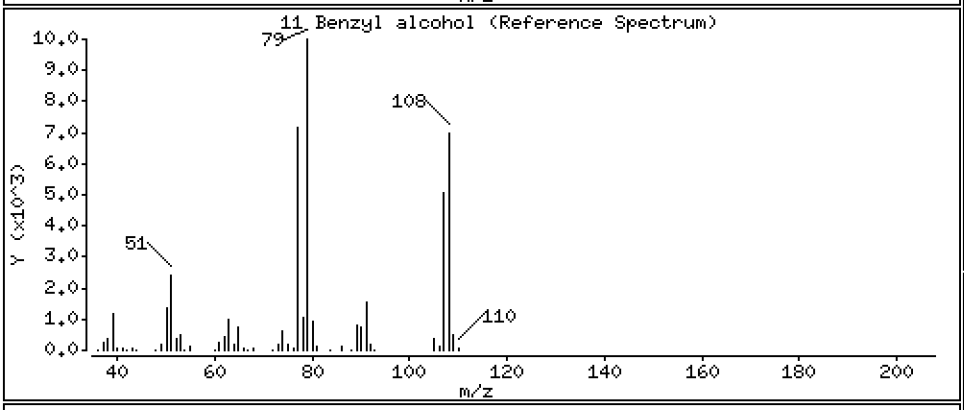
Column diameter: 0.25

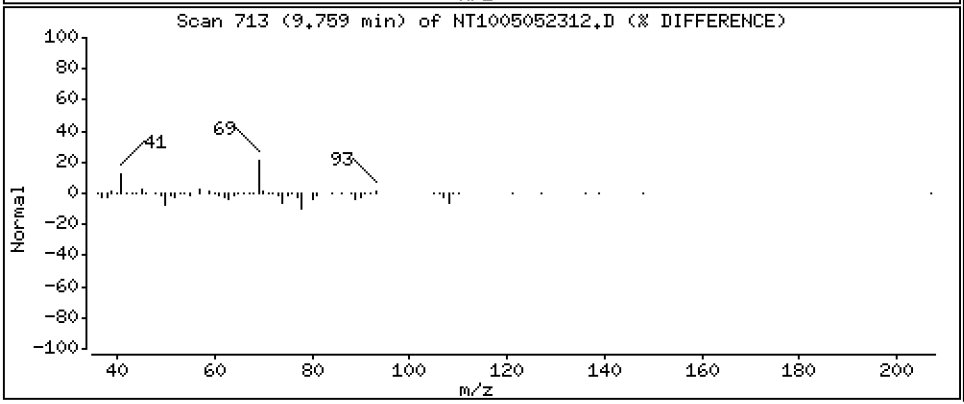
11 Benzyl alcohol

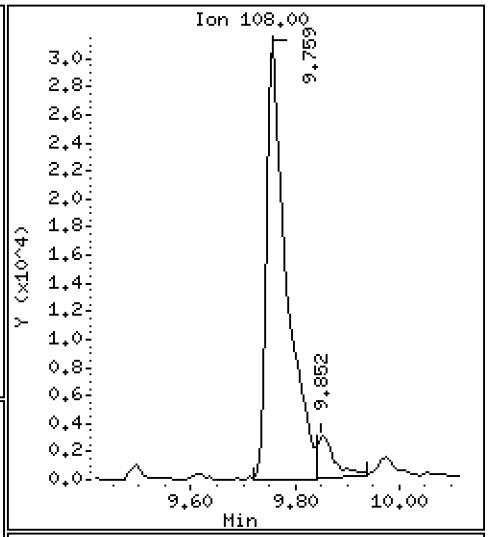
Concentration: 2.687 ug/mL

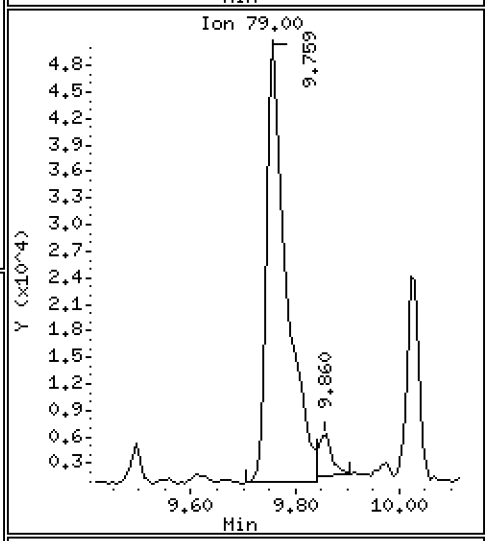


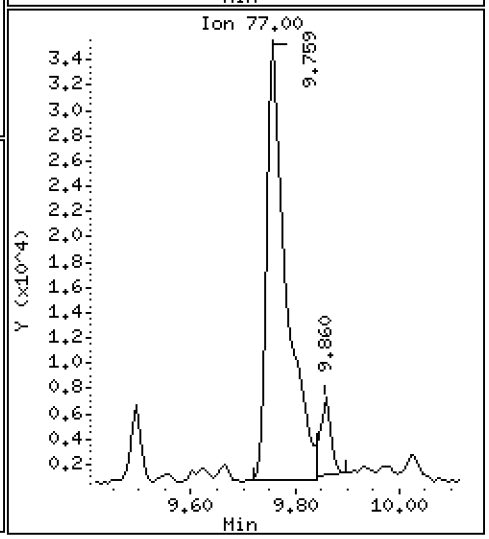












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

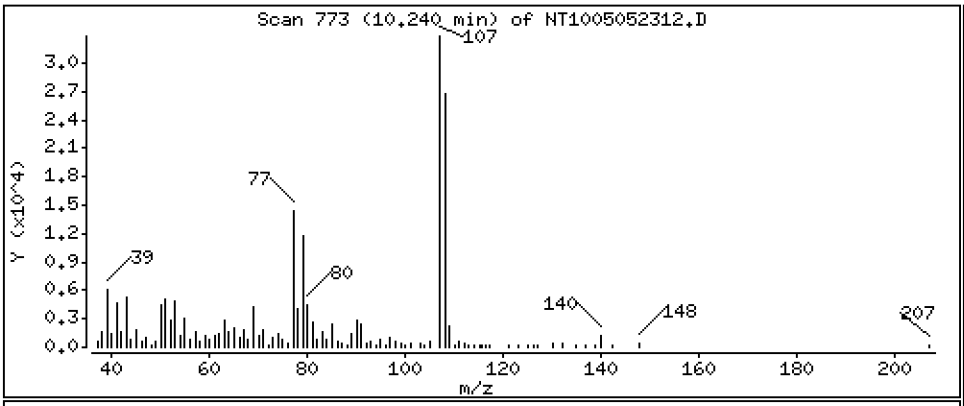
Operator: VTS

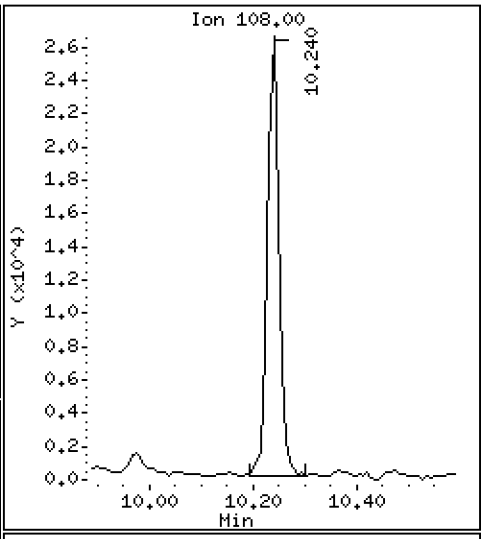
Column phase: ZB-5msi

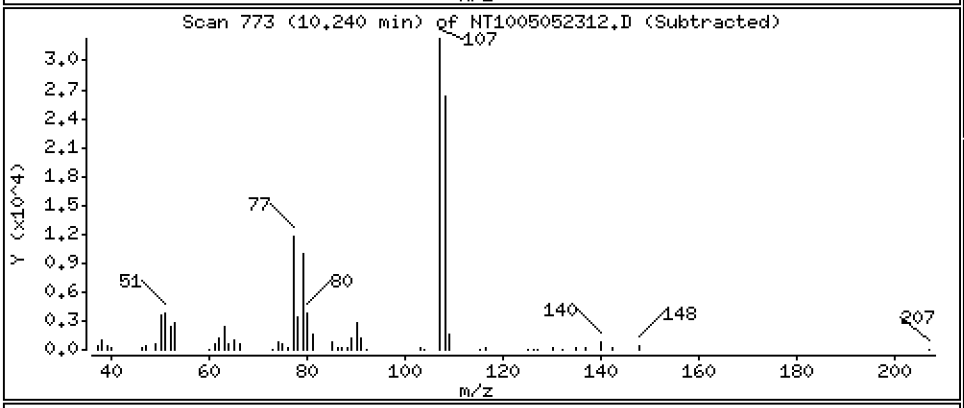
Column diameter: 0.25

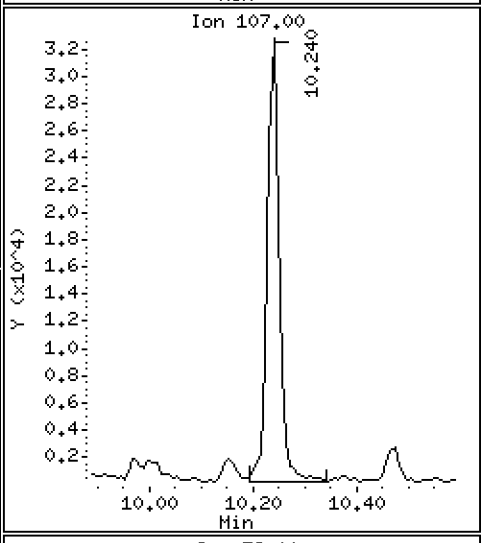
15 4-Methylphenol

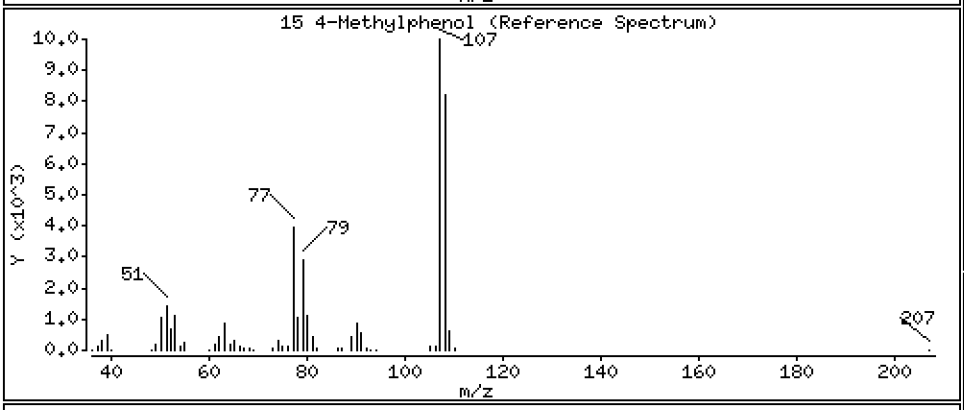
Concentration: 0.7686 ug/mL

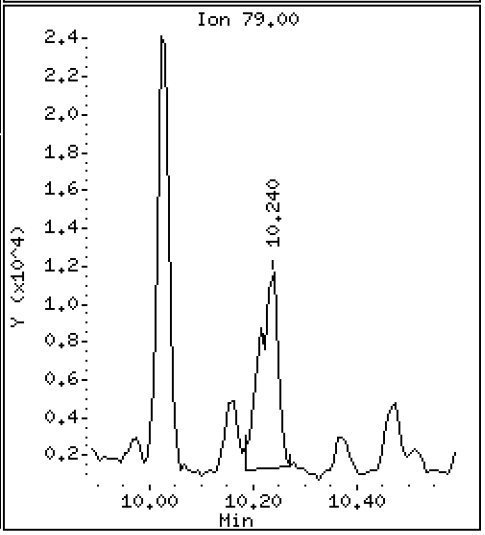


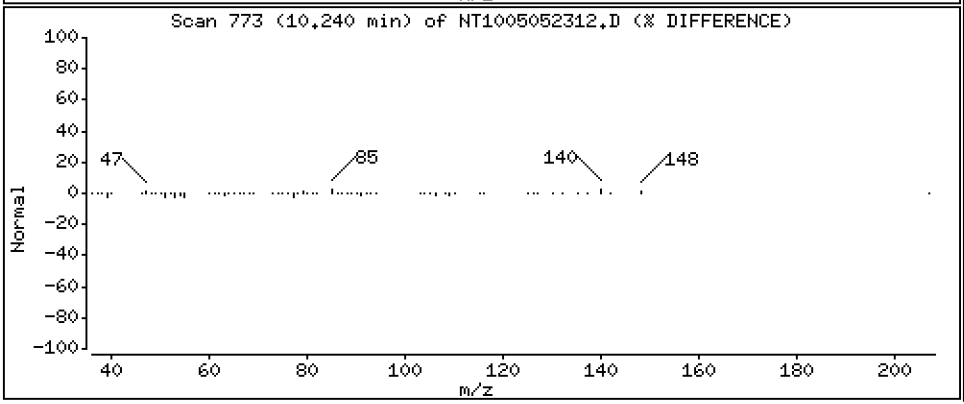












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

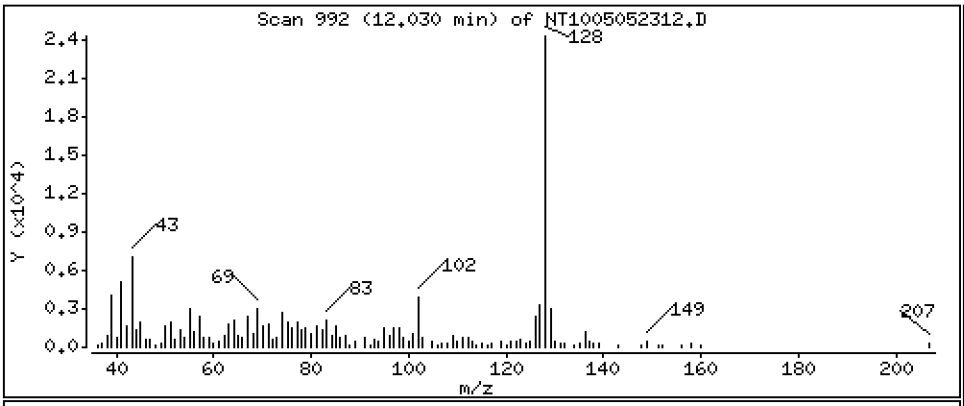
Operator: VTS

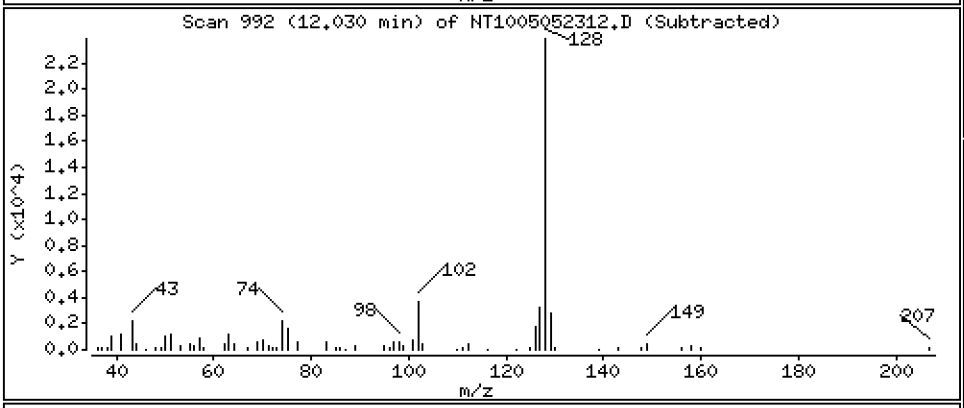
Column phase: ZB-5msi

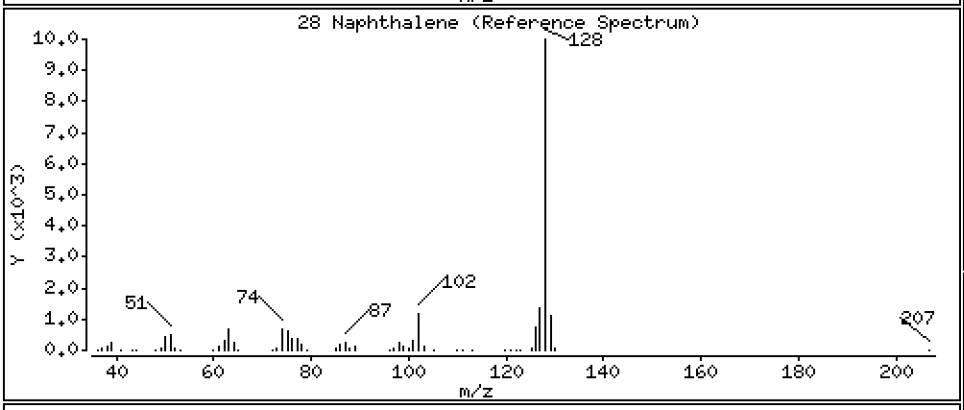
Column diameter: 0.25

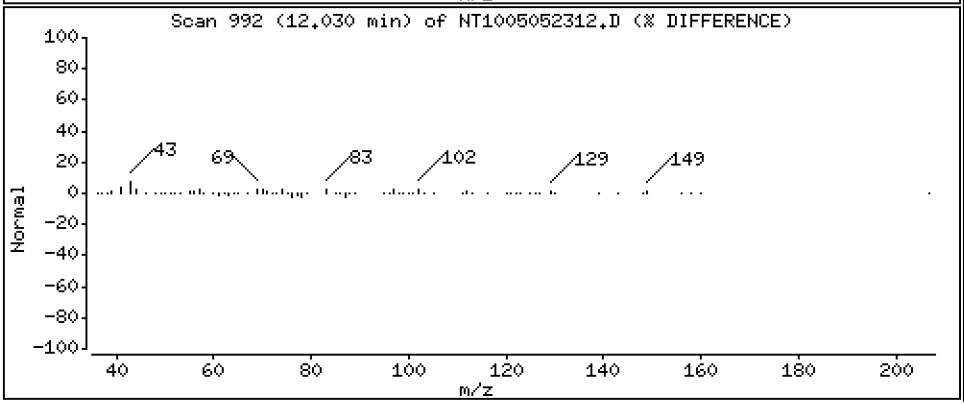
28 Naphthalene

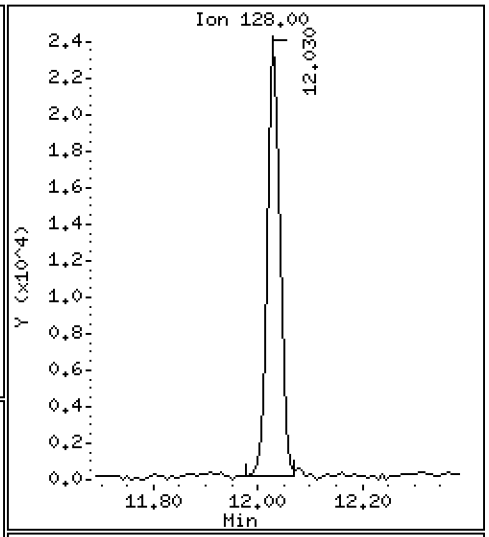
Concentration: 0.2176 ug/mL

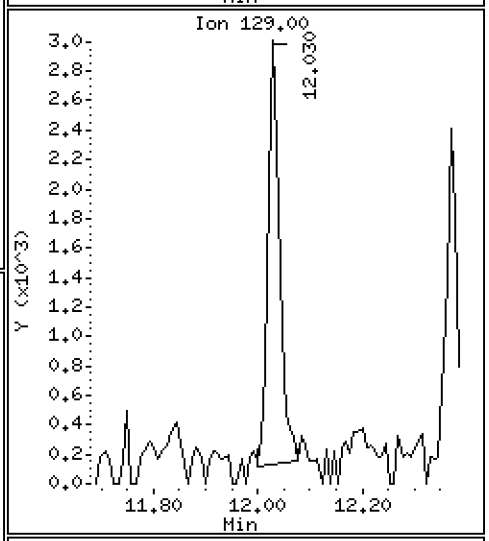


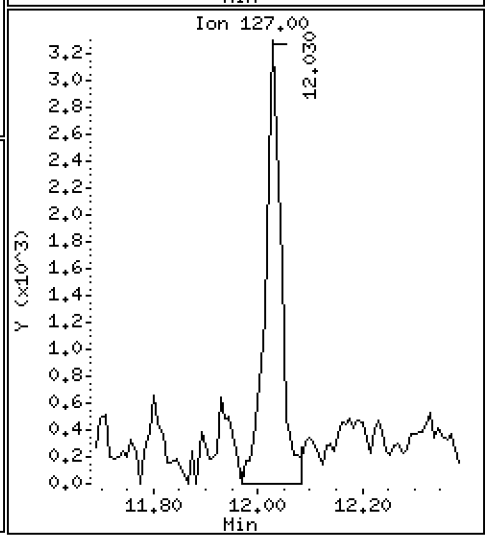












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

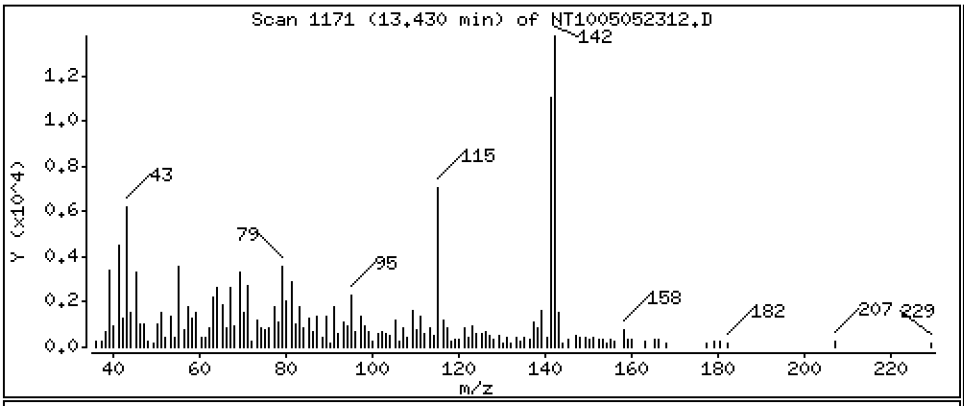
Operator: VTS

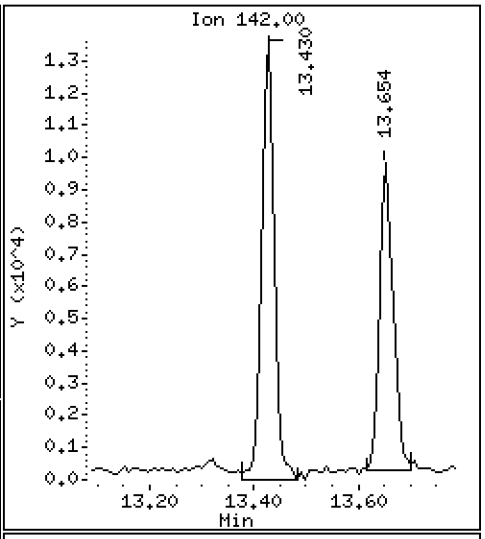
Column phase: ZB-5msi

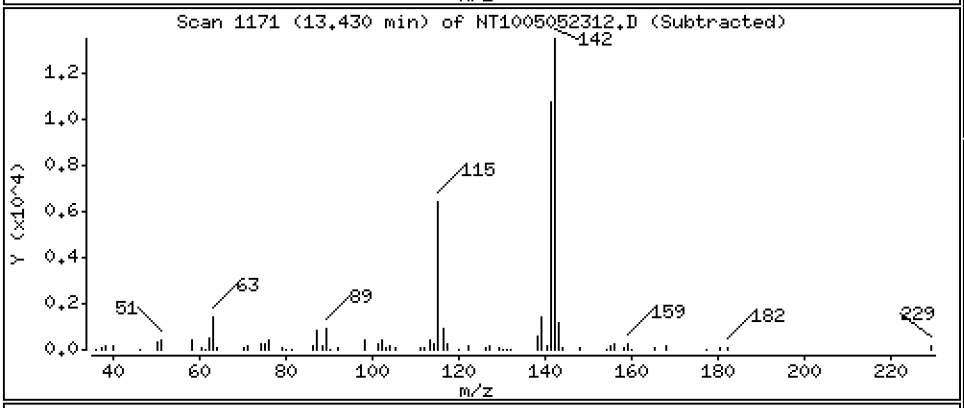
Column diameter: 0.25

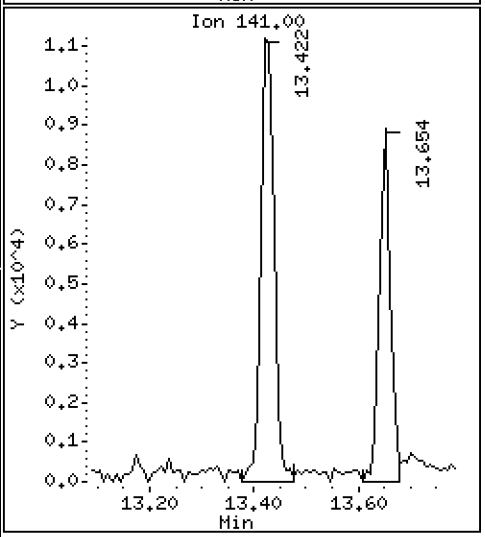
32 2-Methylnaphthalene

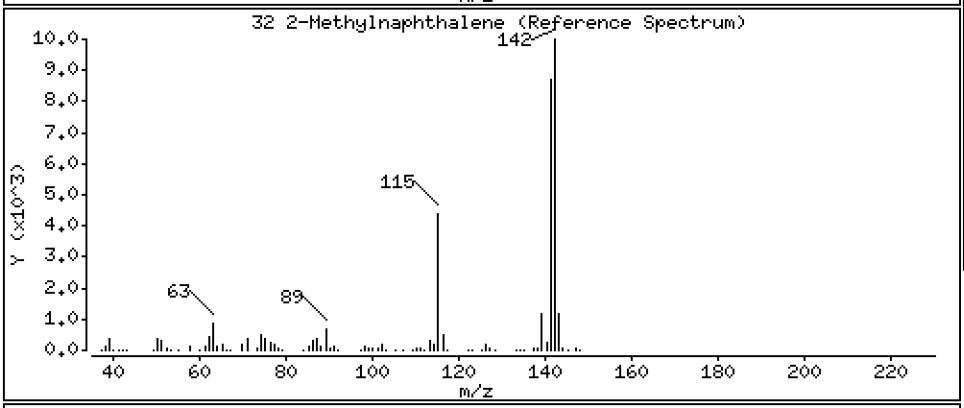
Concentration: 0.1643 ug/mL

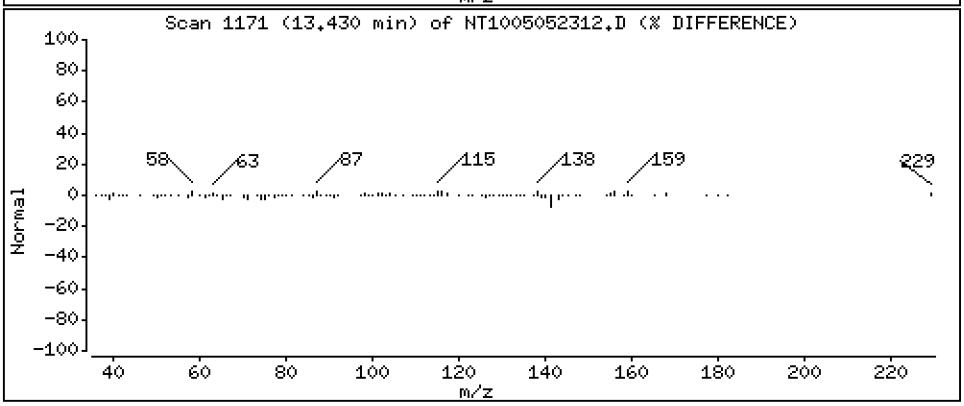












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

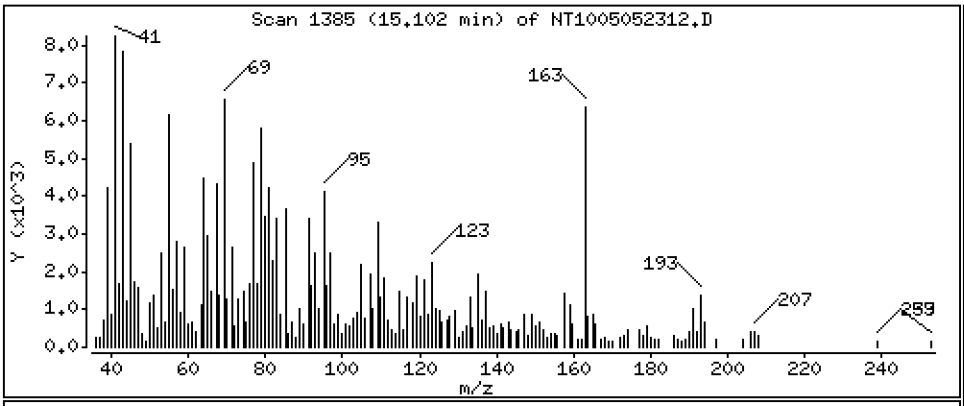
Operator: VTS

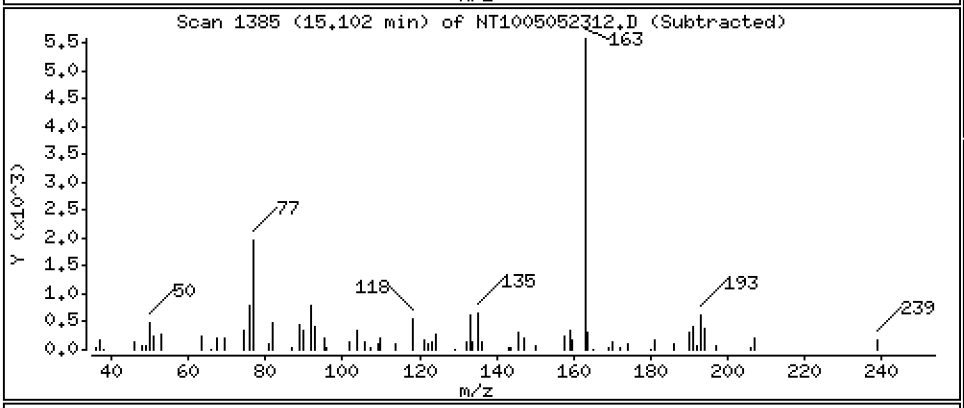
Column phase: ZB-5msi

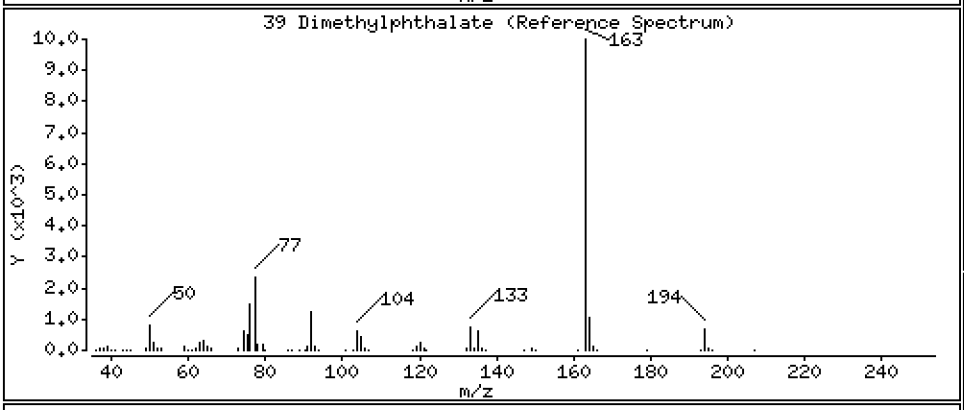
Column diameter: 0.25

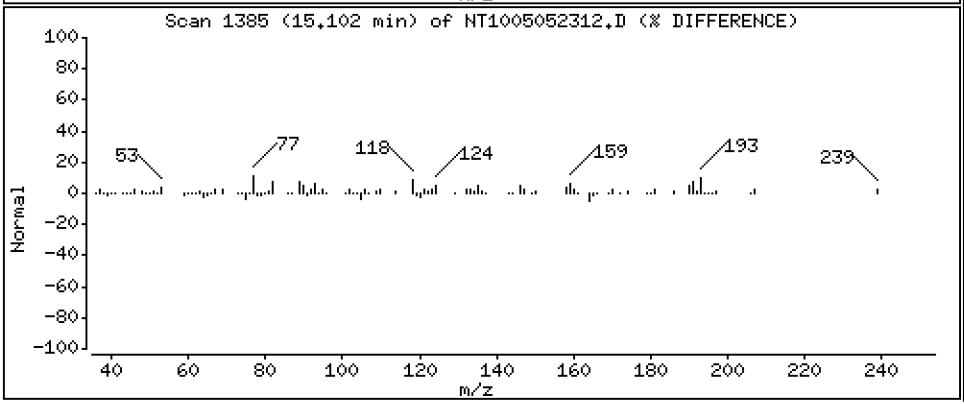
39 Dimethylphthalate

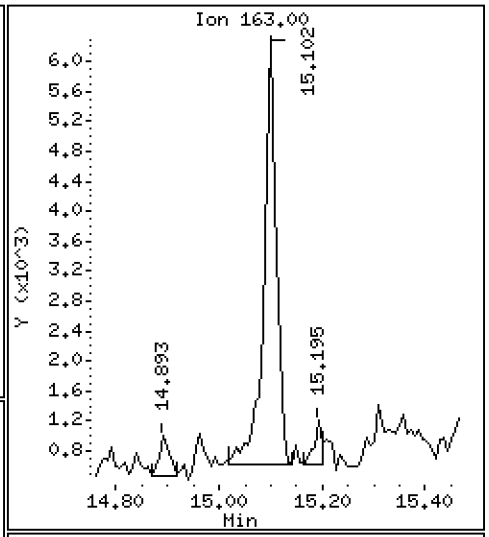
Concentration: 0.07215 ug/mL

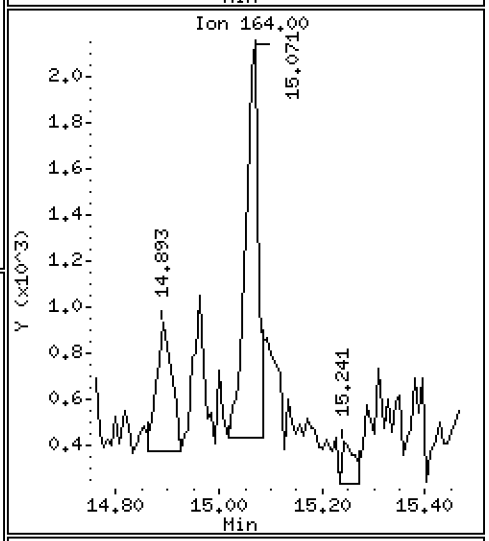


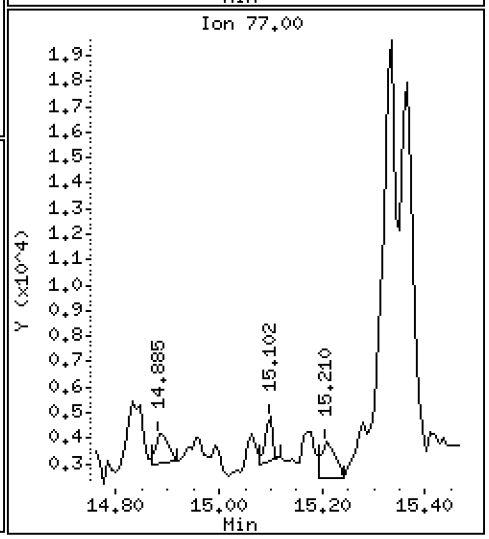












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

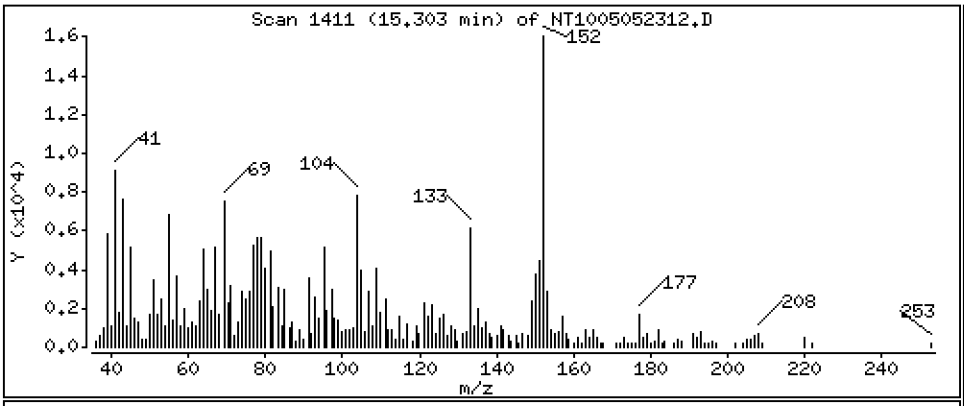
Operator: VTS

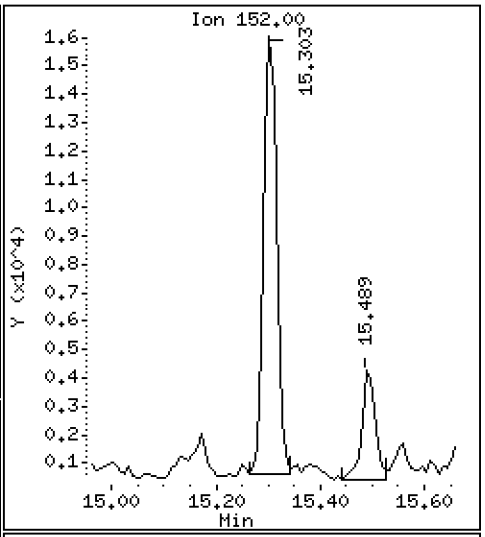
Column phase: ZB-5msi

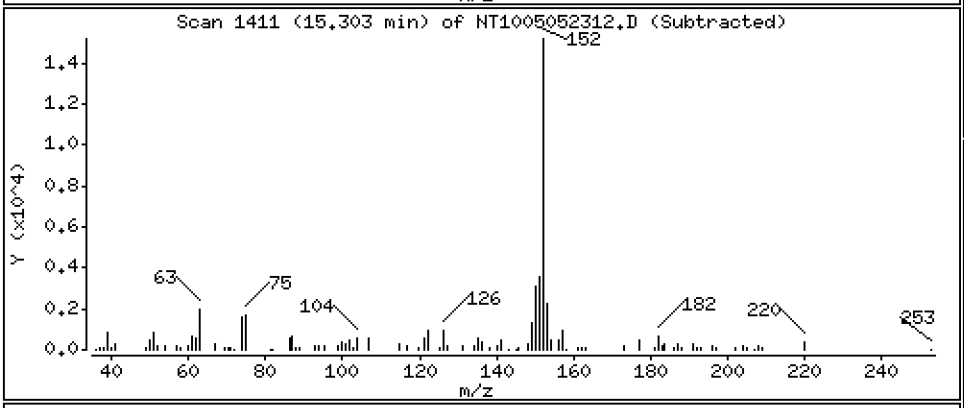
Column diameter: 0.25

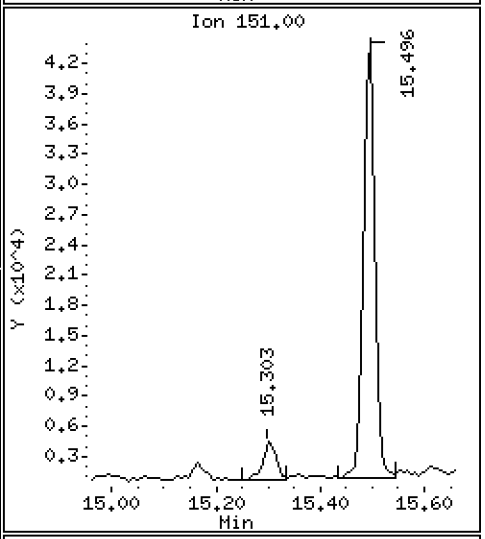
40 Acenaphthylene

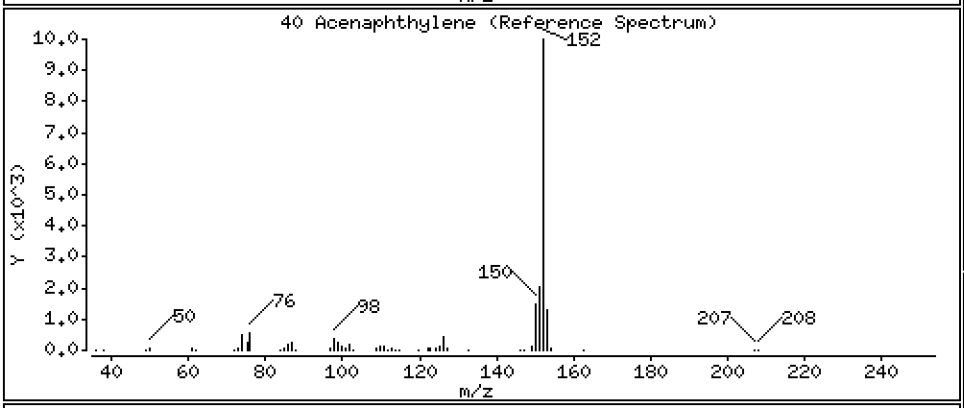
Concentration: 0.1418 ug/mL

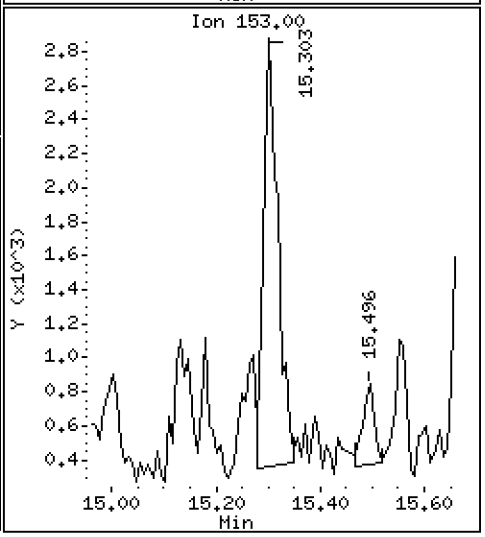


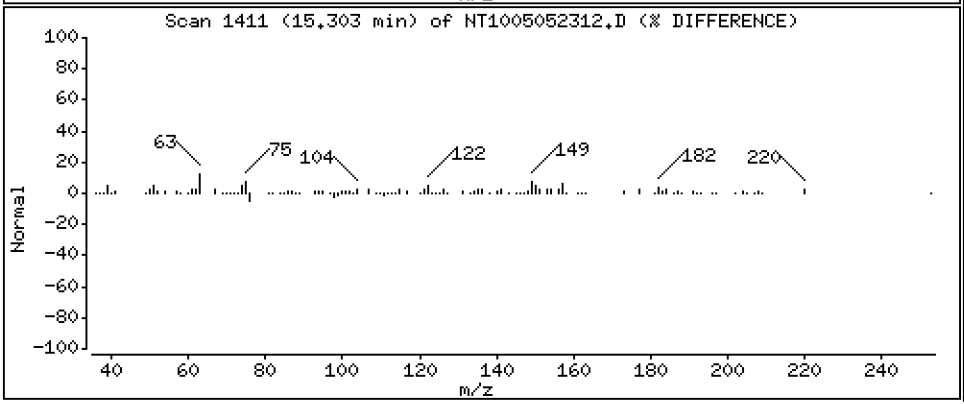












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

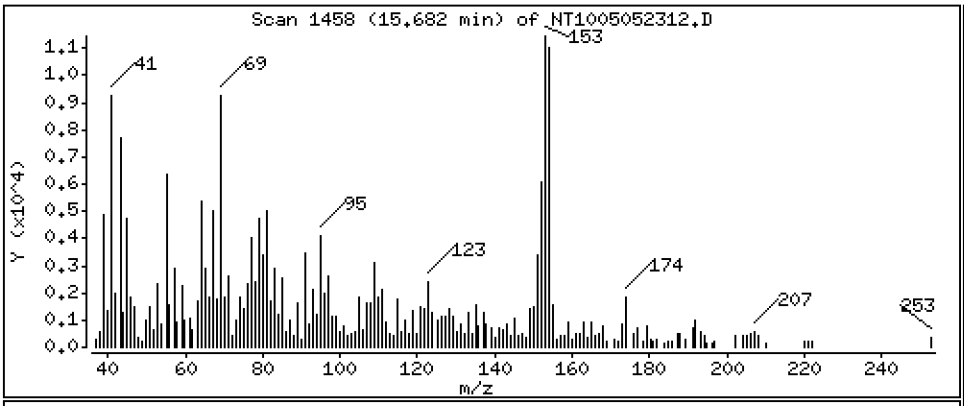
Operator: VTS

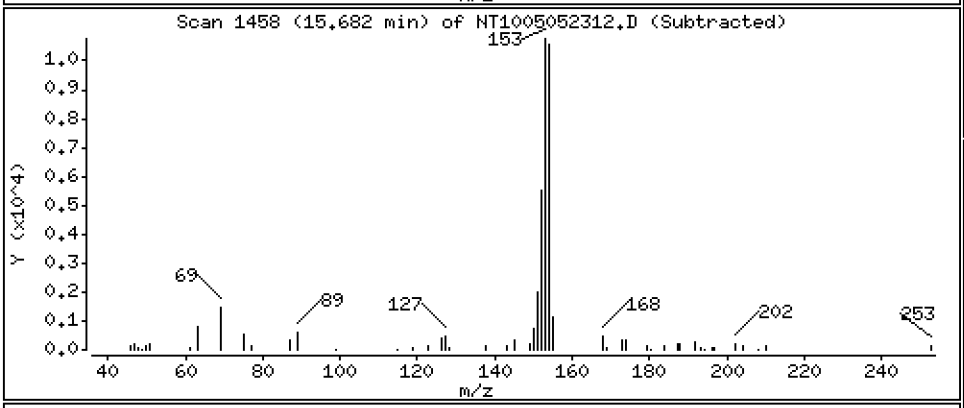
Column phase: ZB-5msi

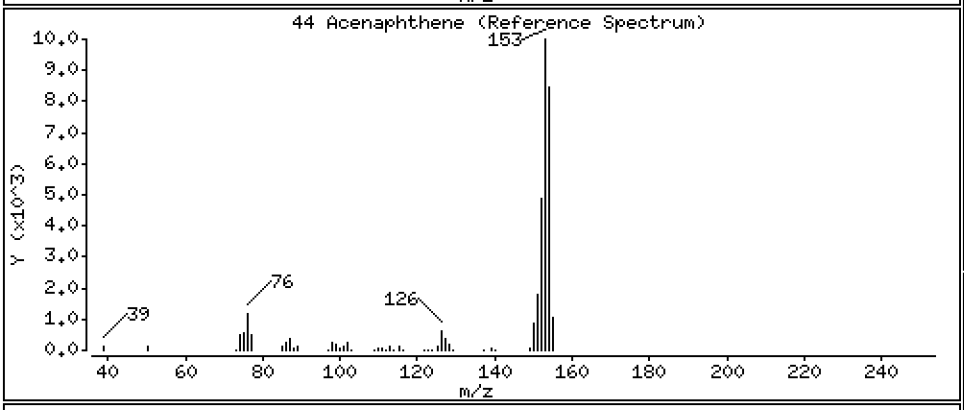
Column diameter: 0.25

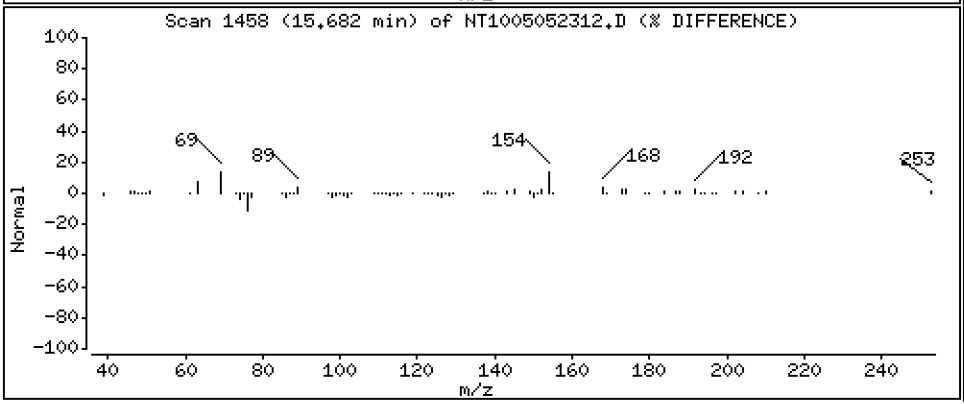
44 Acenaphthene

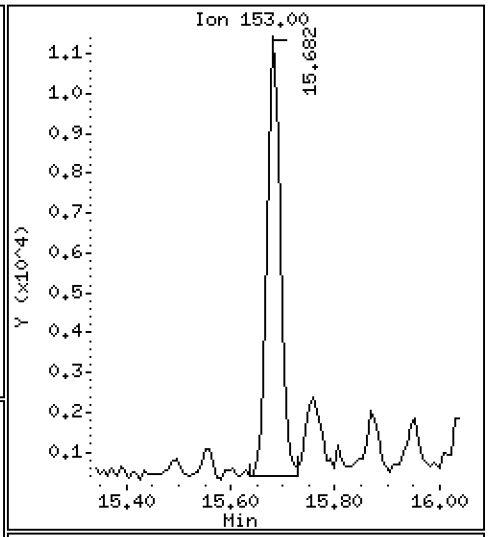
Concentration: 0.1586 ug/mL

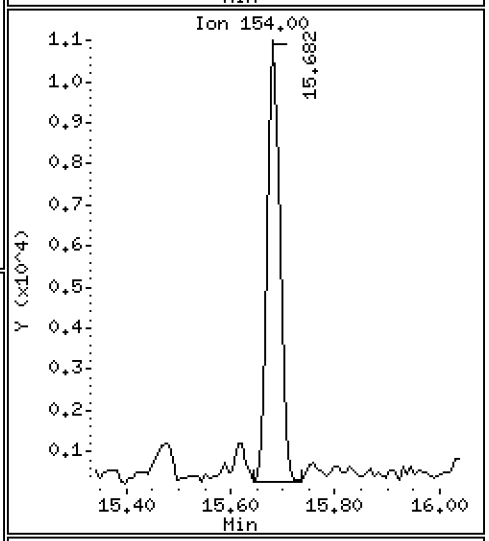


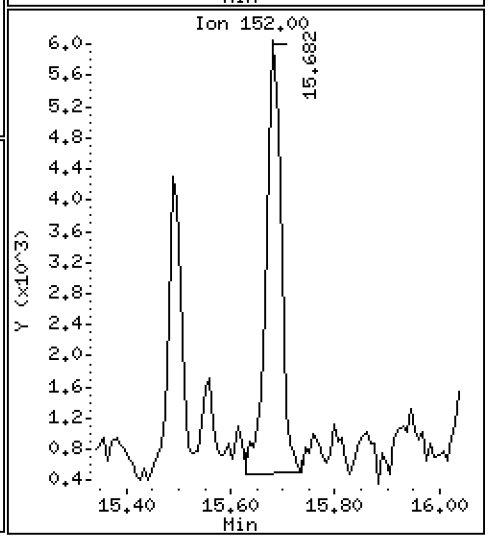












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

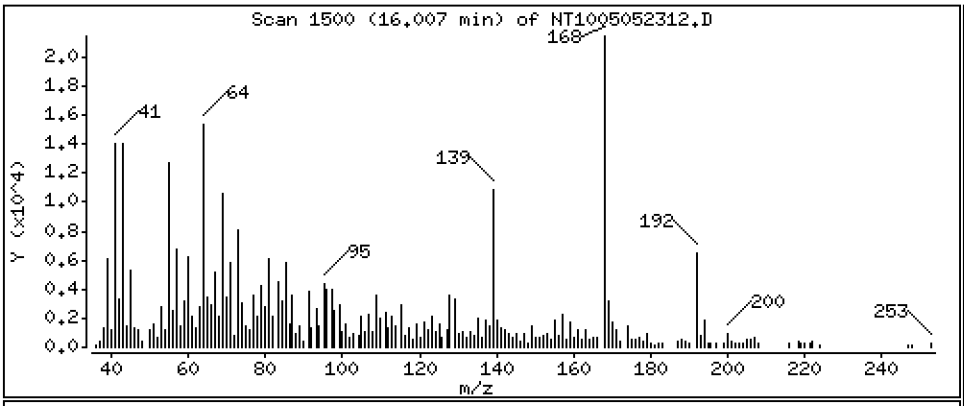
Operator: VTS

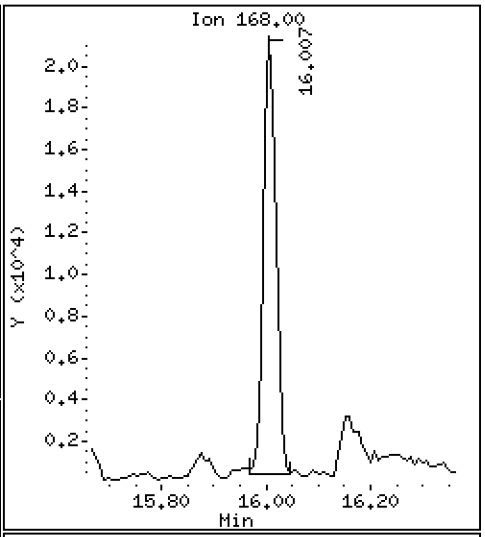
Column phase: ZB-5msi

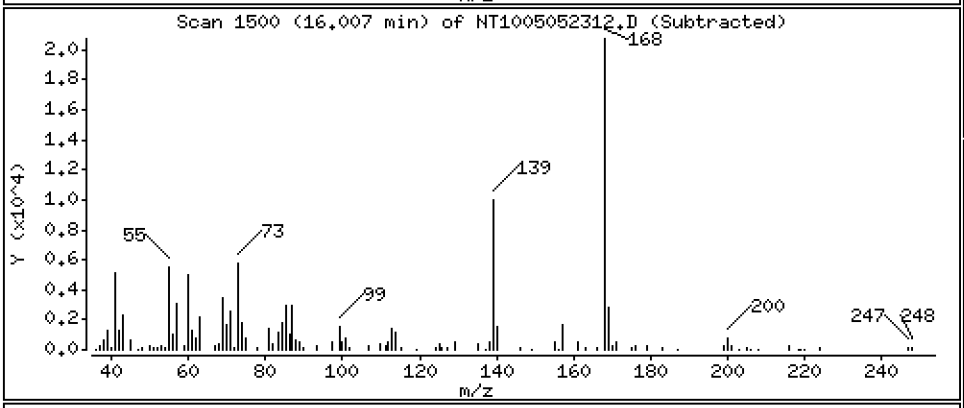
Column diameter: 0.25

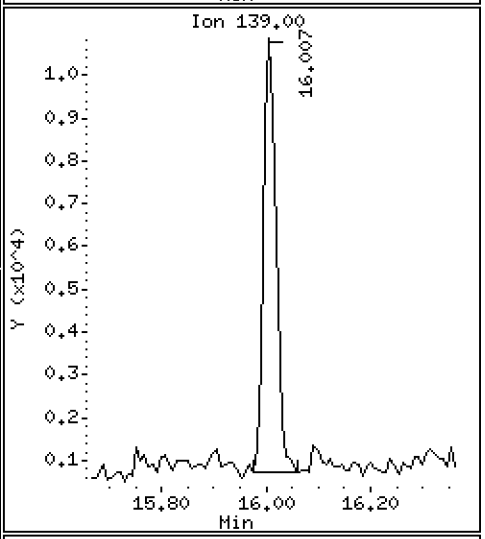
46 Dibenzofuran

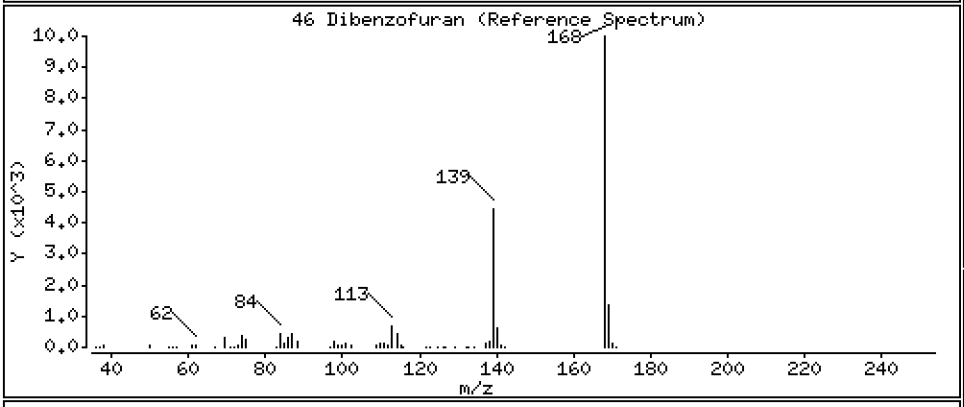
Concentration: 0.2034 ug/mL

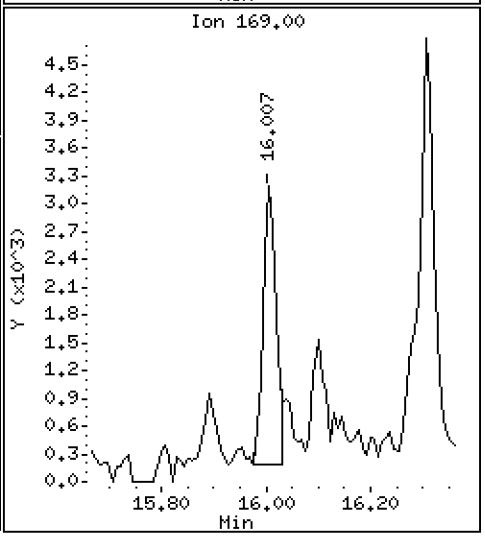


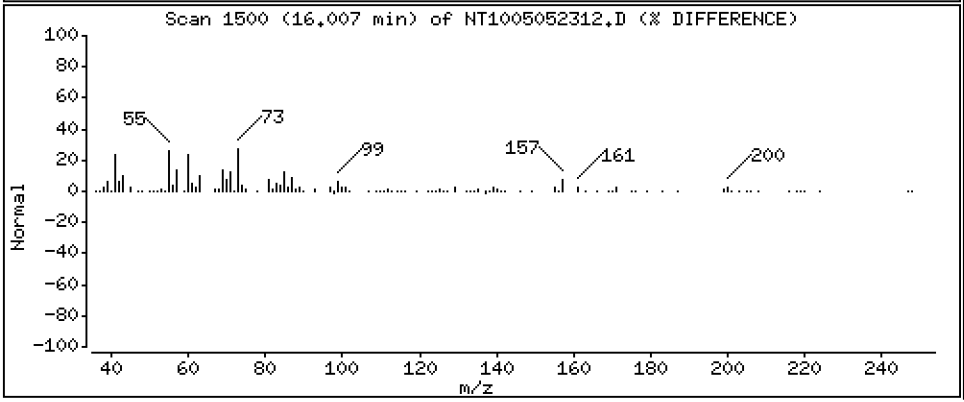












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

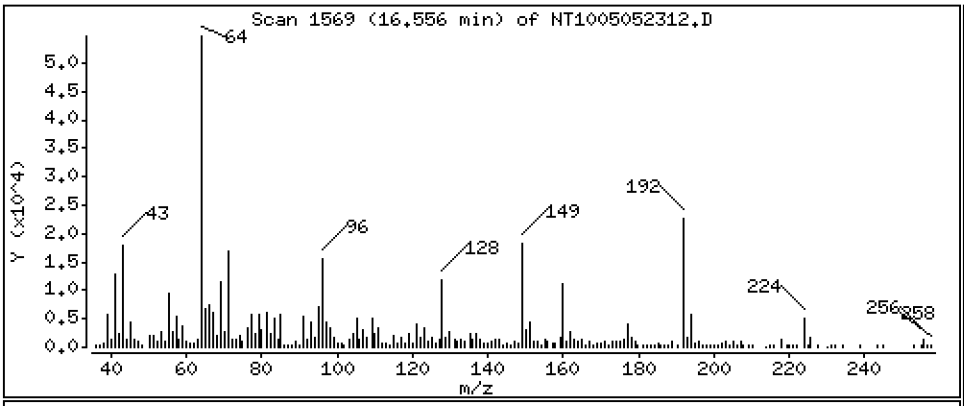
Operator: VTS

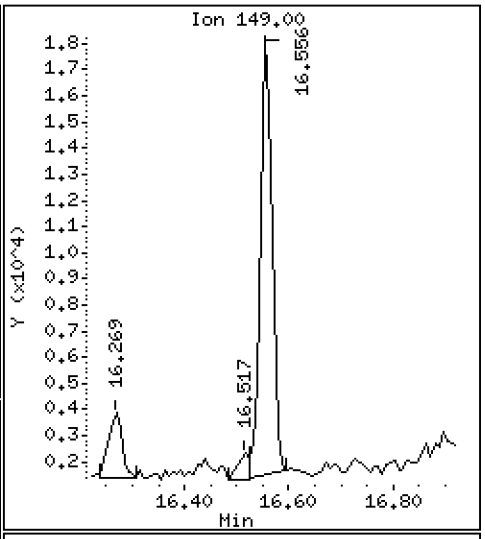
Column phase: ZB-5msi

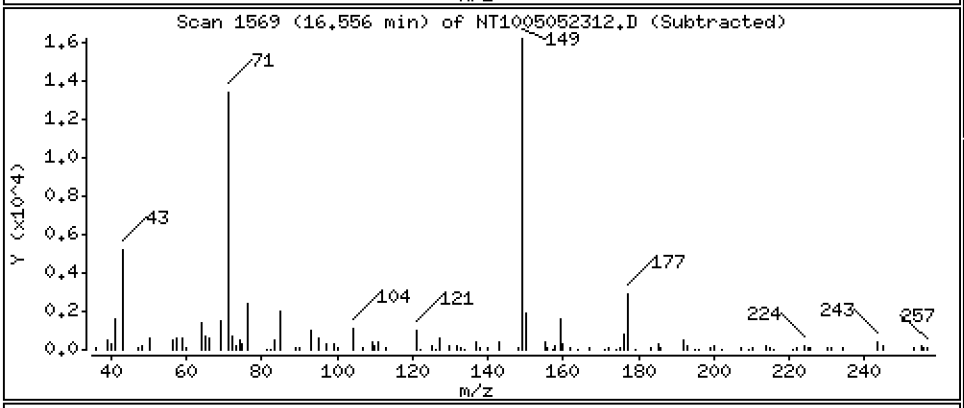
Column diameter: 0.25

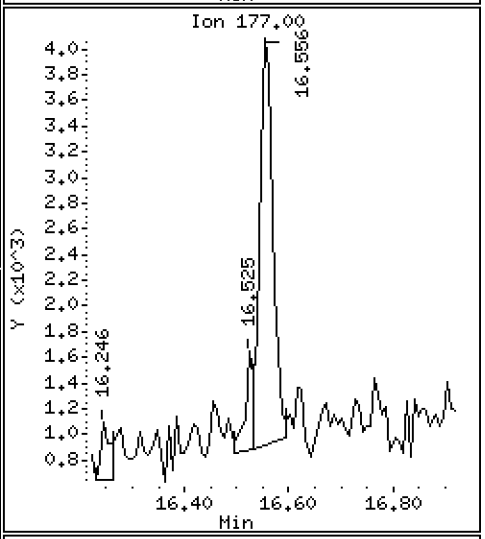
50 Diethylphthalate

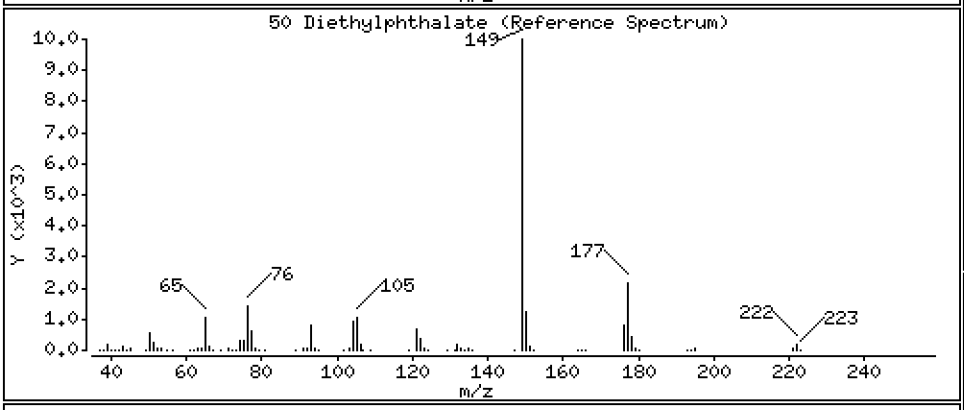
Concentration: 0.1854 ug/mL

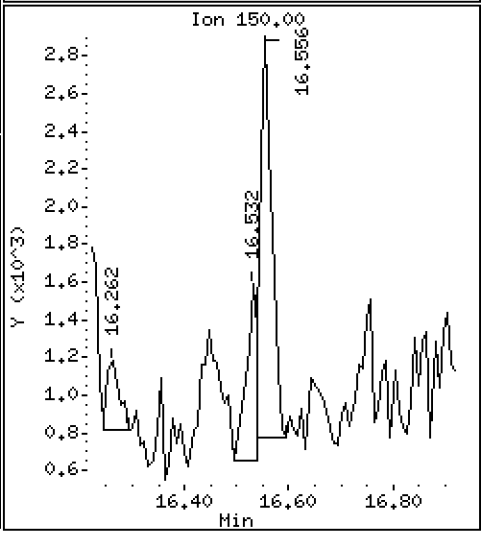


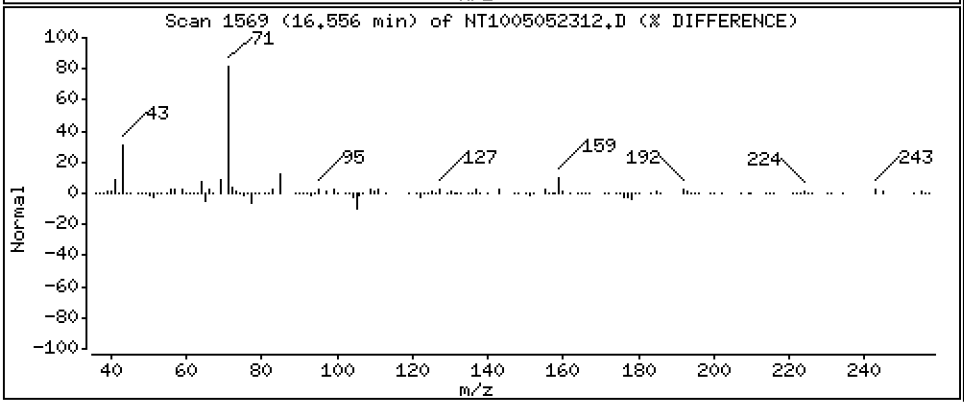












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

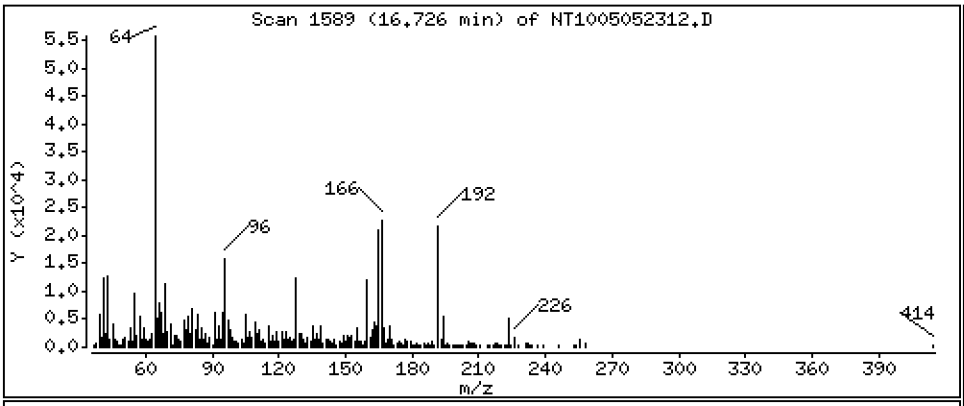
Operator: VTS

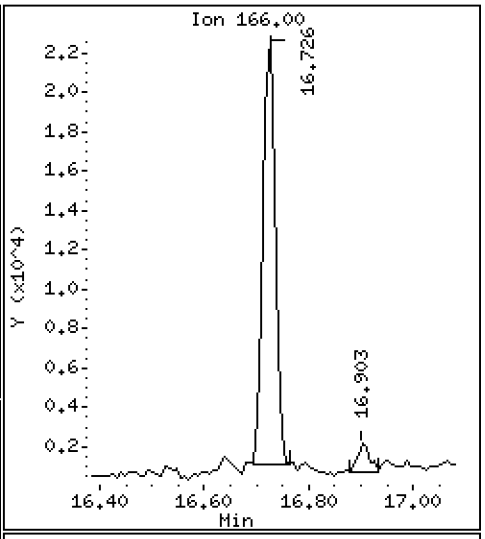
Column phase: ZB-5msi

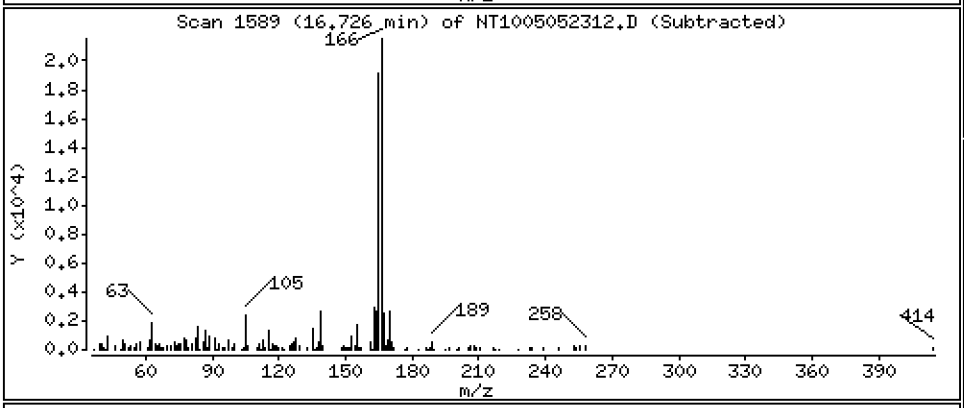
Column diameter: 0.25

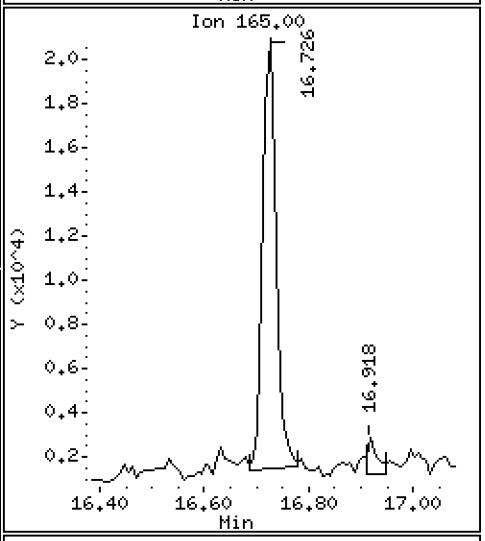
49 Fluorene

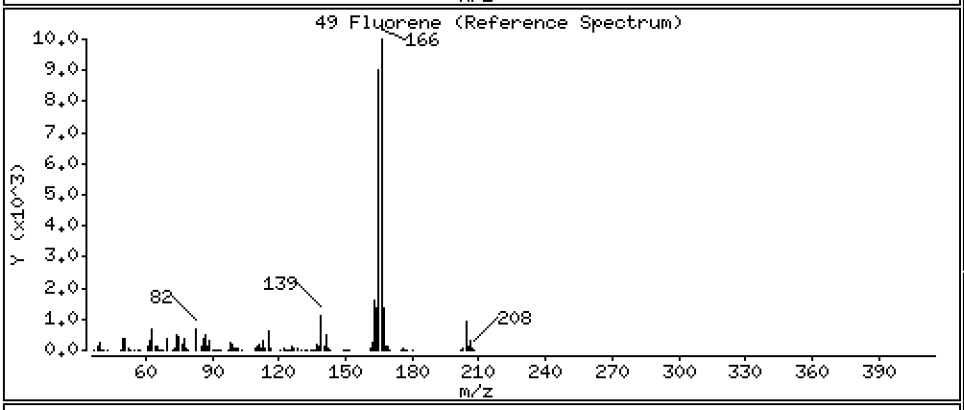
Concentration: 0.2375 ug/mL

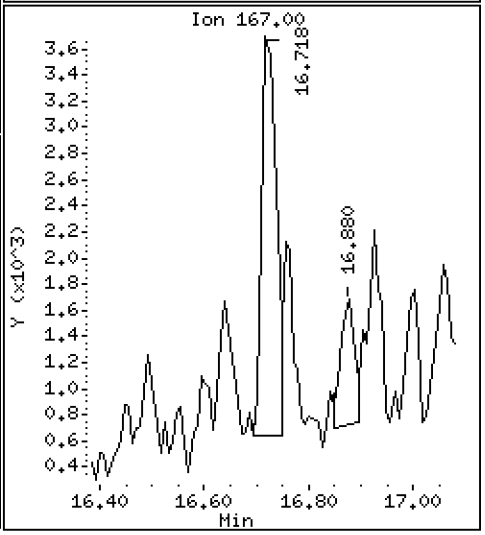


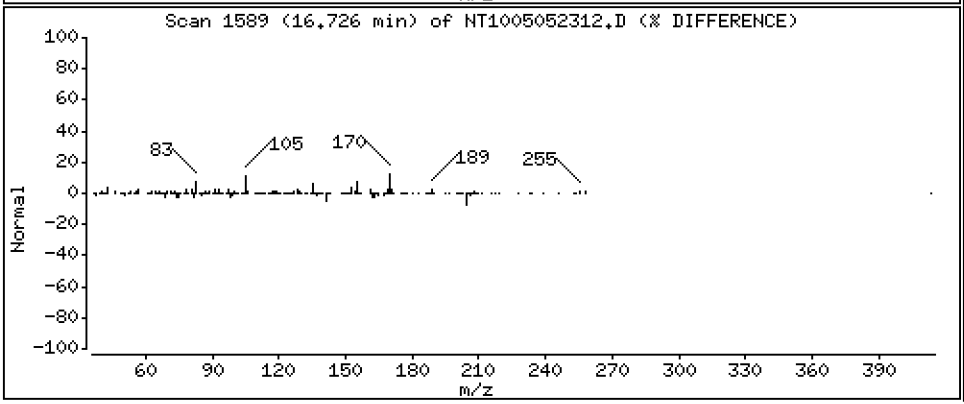












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

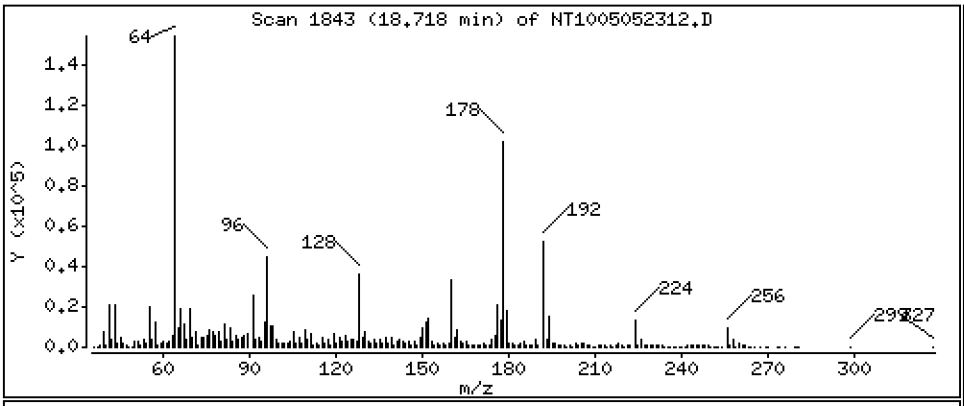
Operator: VTS

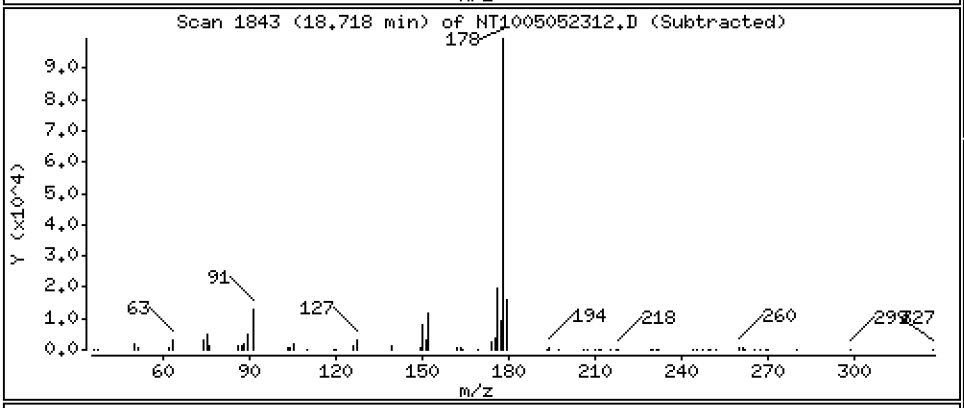
Column phase: ZB-5msi

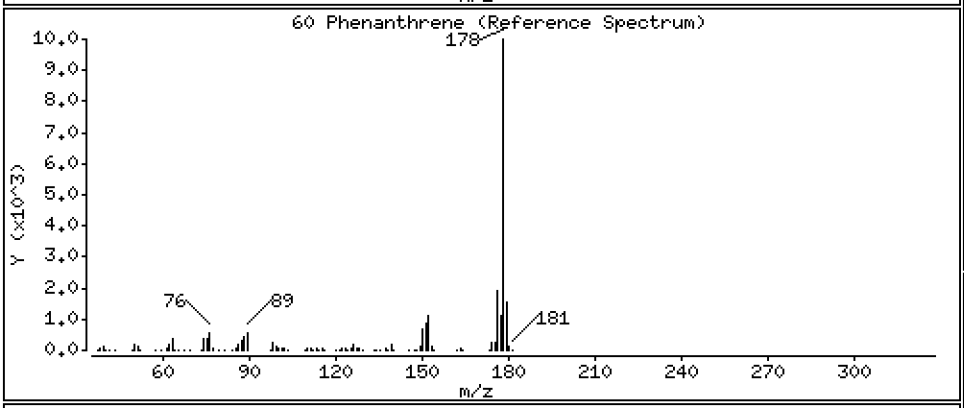
Column diameter: 0.25

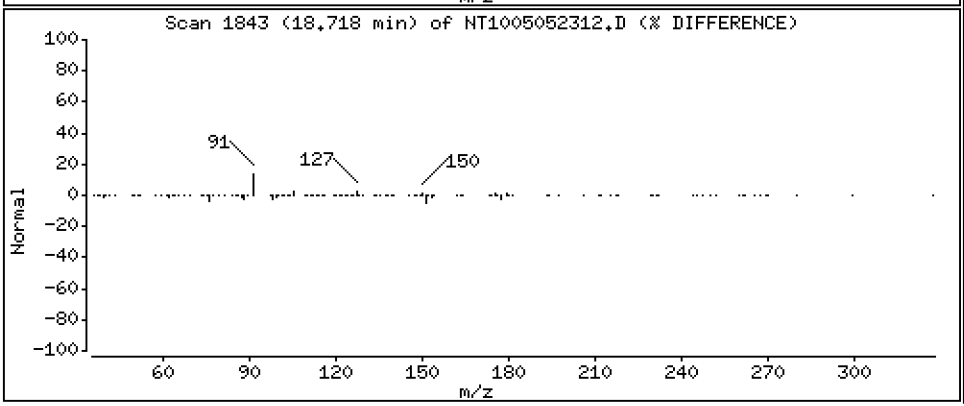
60 Phenanthrene

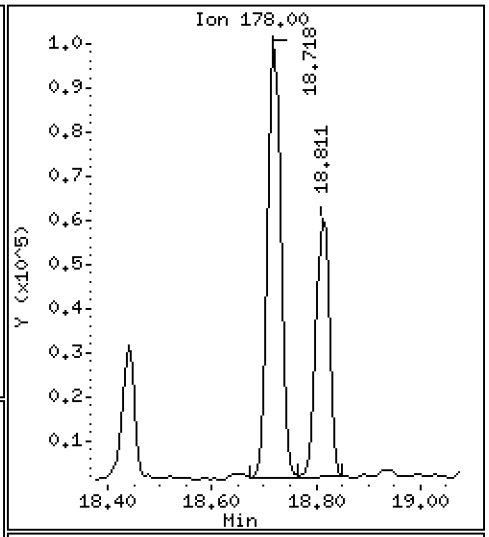
Concentration: 0.9205 ug/mL

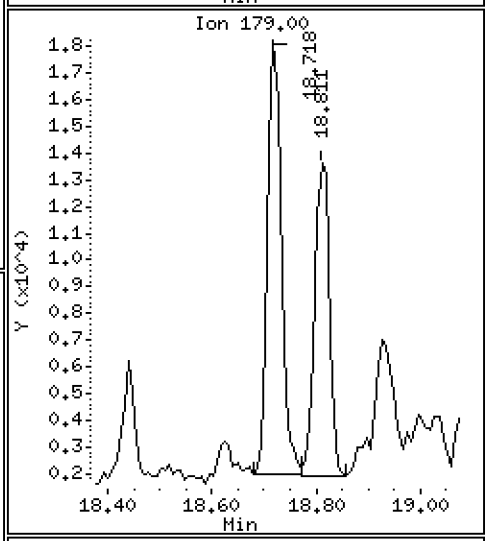


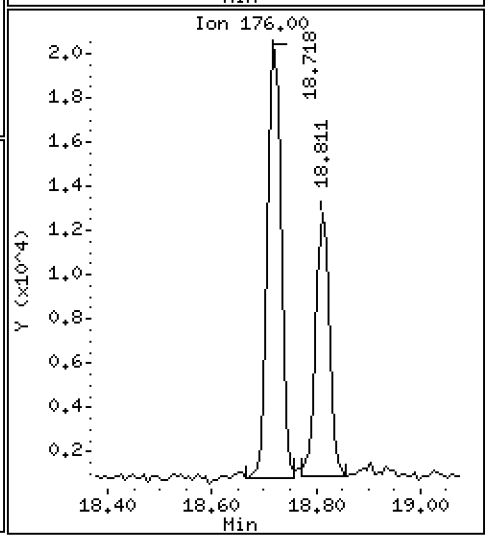












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

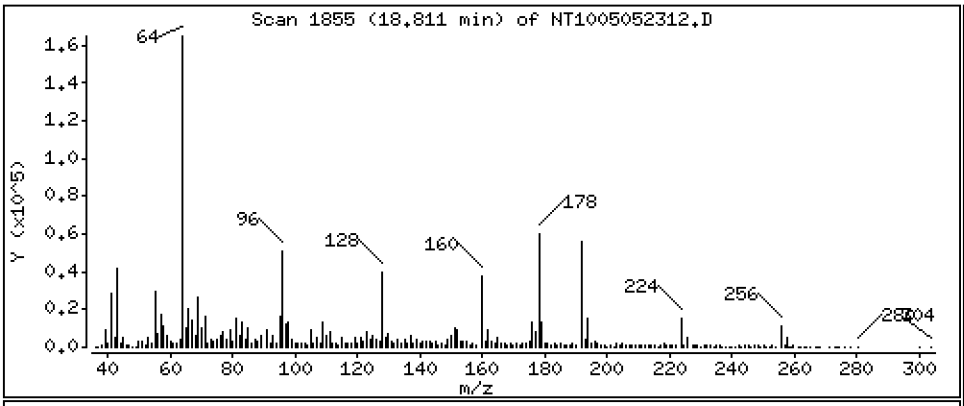
Operator: VTS

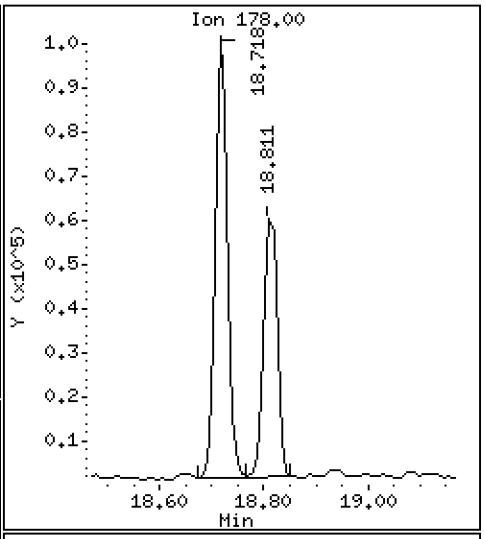
Column phase: ZB-5msi

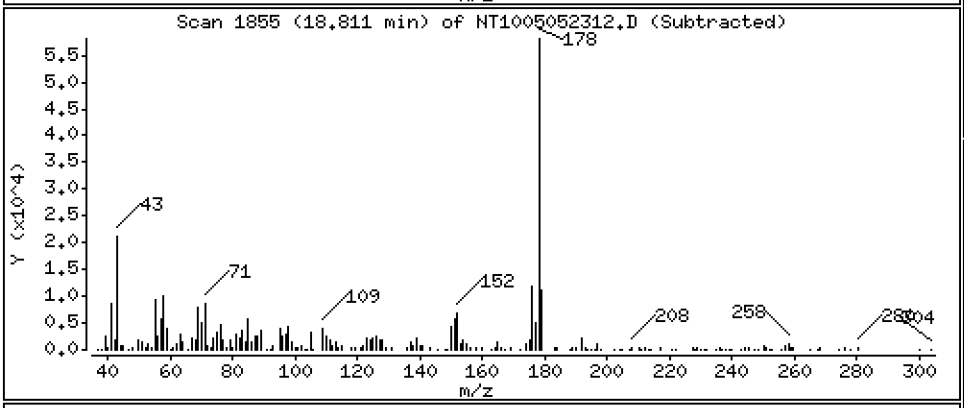
Column diameter: 0.25

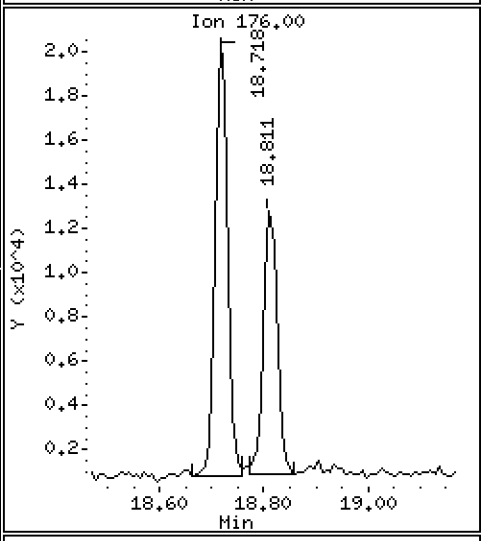
61 Anthracene

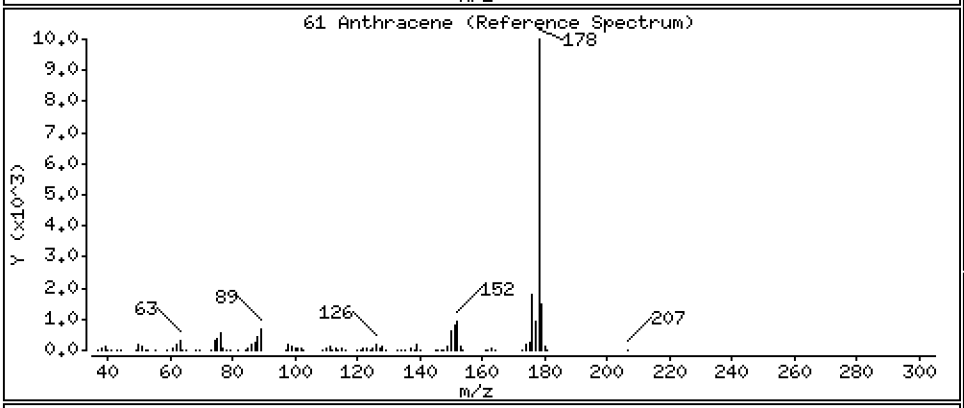
Concentration: 0.6046 ug/mL

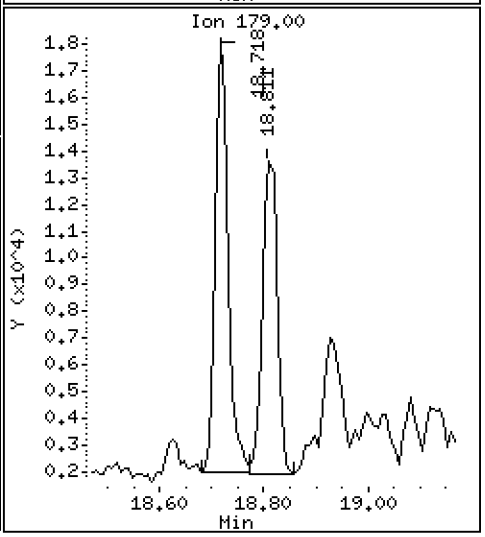


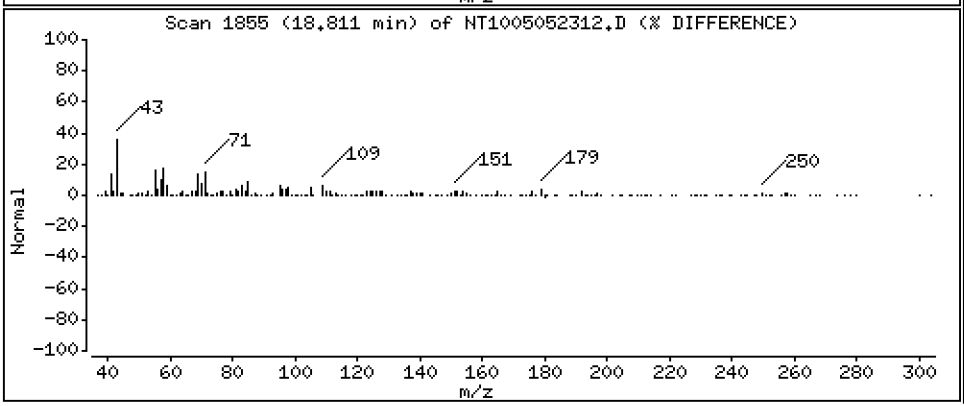












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

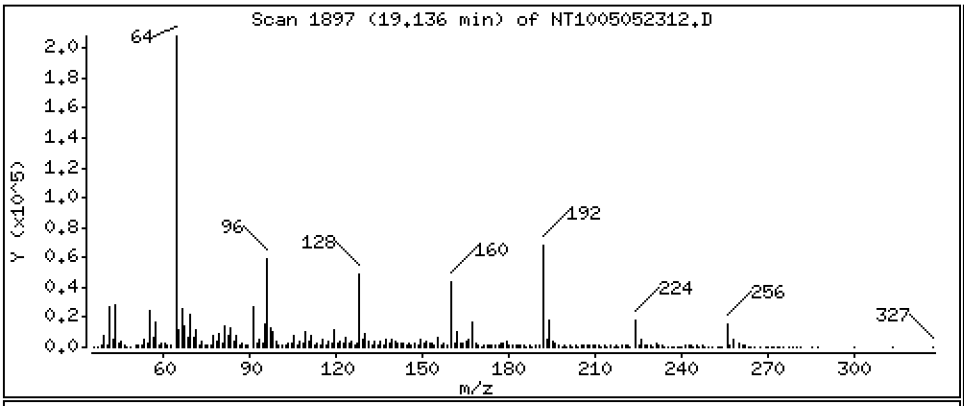
Operator: VTS

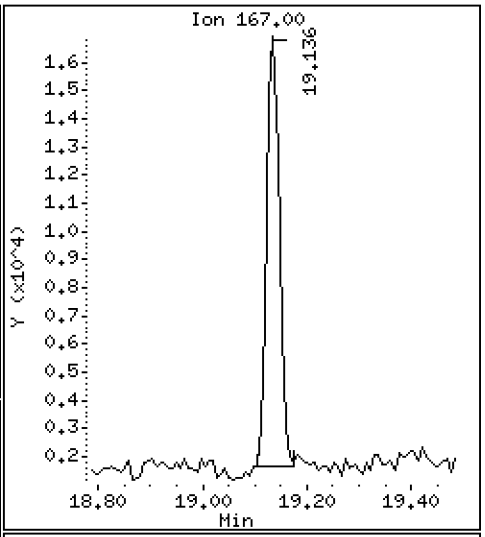
Column phase: ZB-5msi

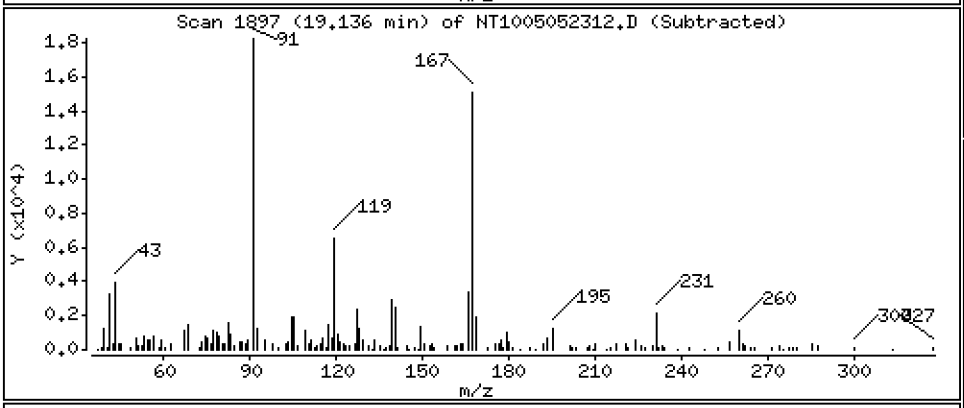
Column diameter: 0.25

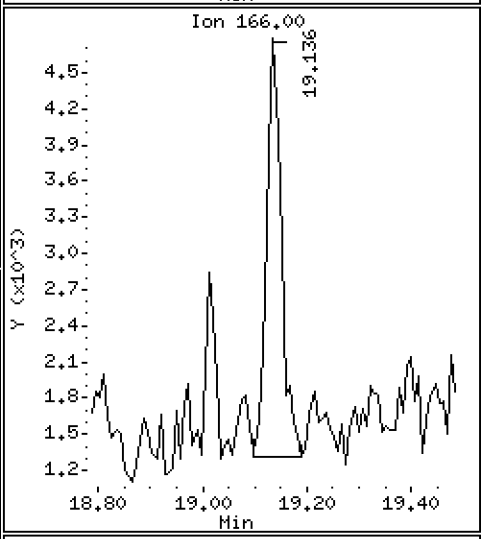
62 Carbazole

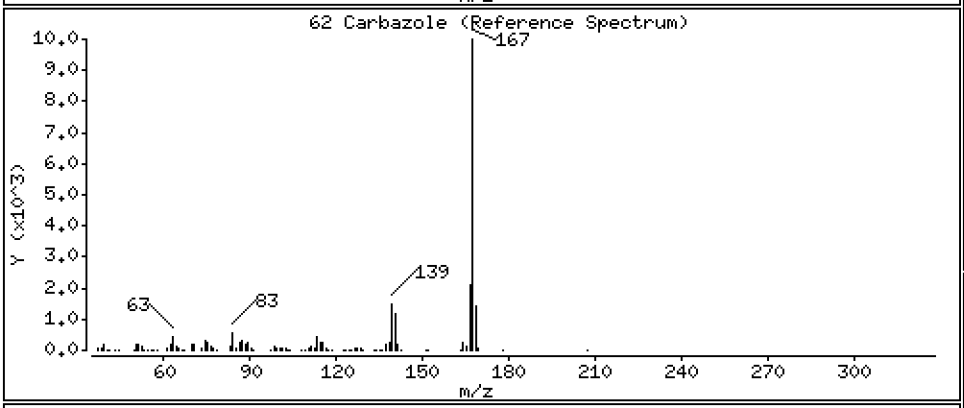
Concentration: 0.1642 ug/mL

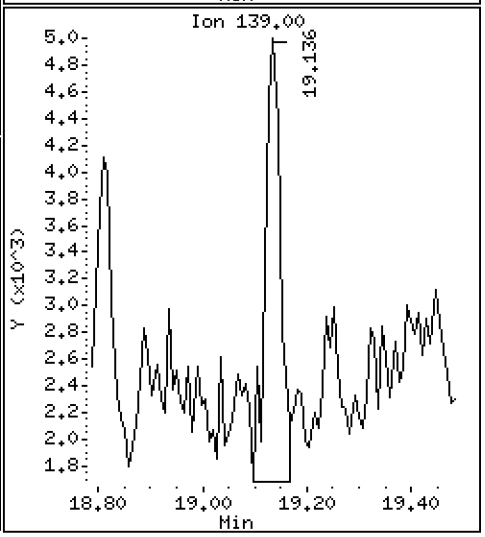


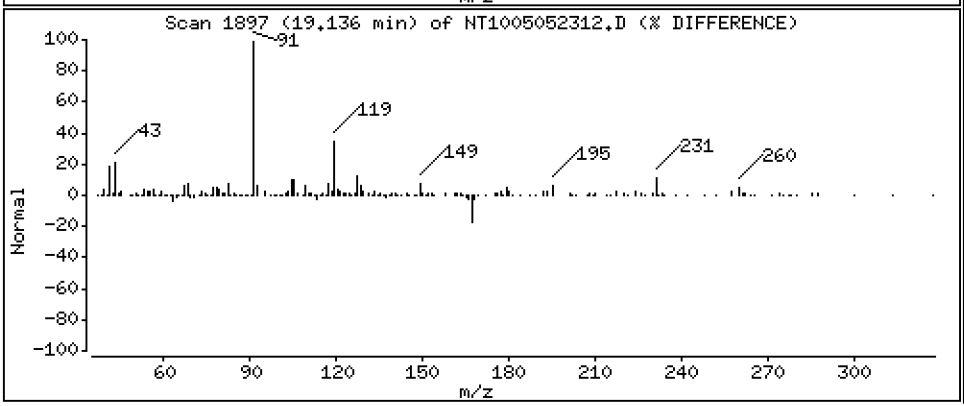












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

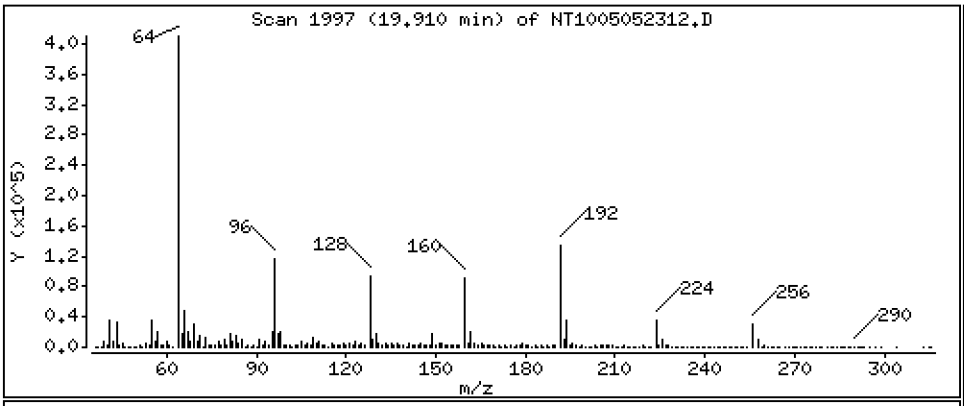
Operator: VTS

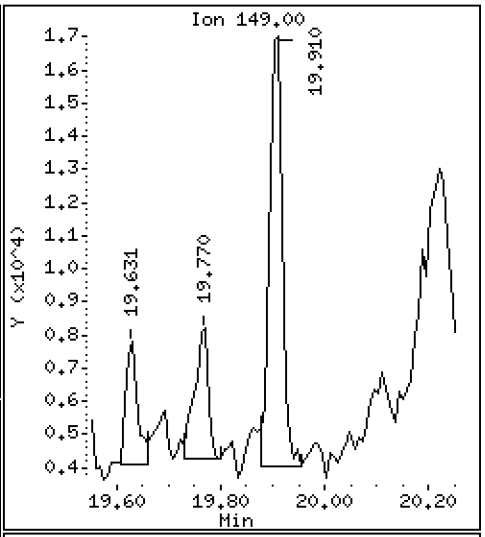
Column phase: ZB-5msi

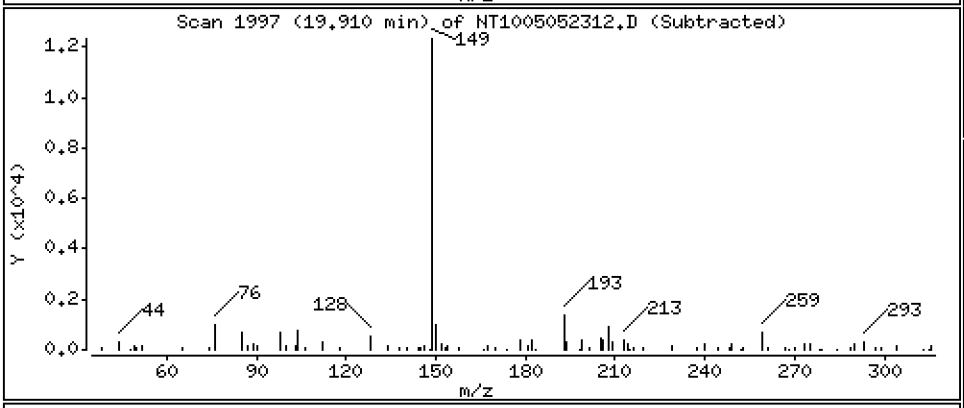
Column diameter: 0.25

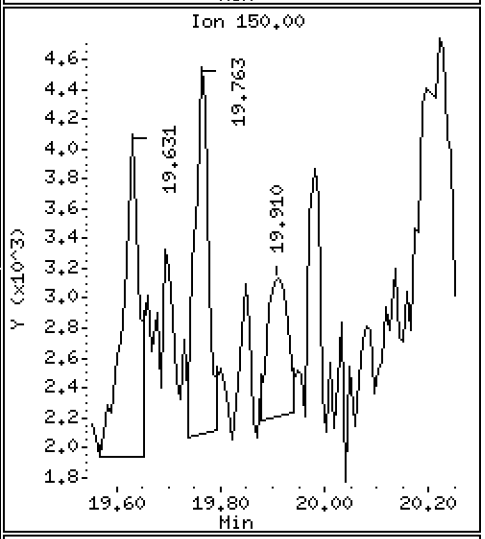
63 Di-n-butylphthalate

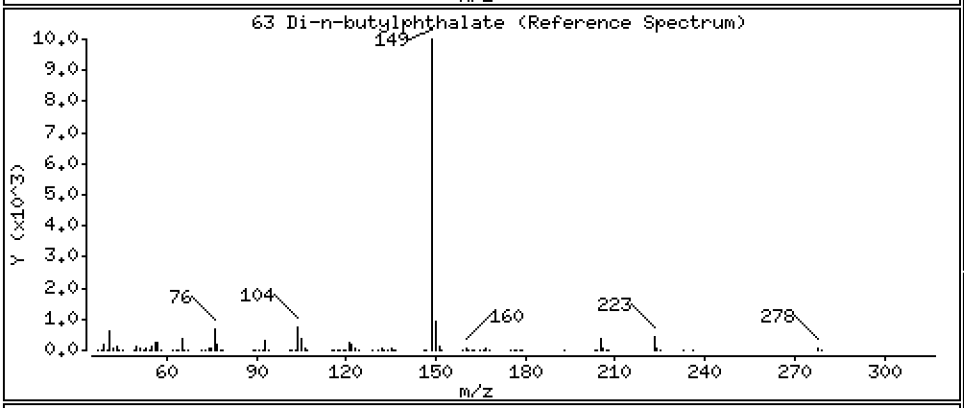
Concentration: 0.09810 ug/mL

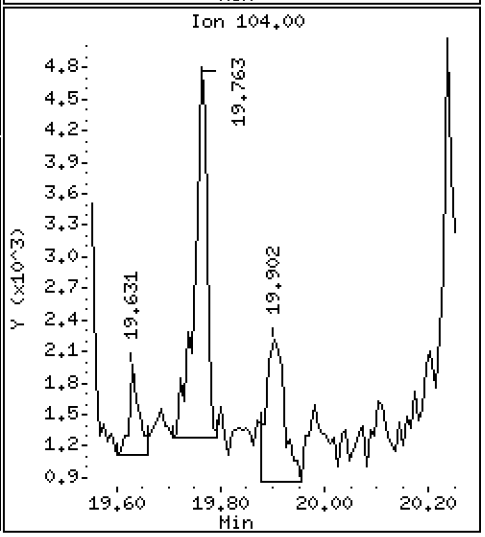


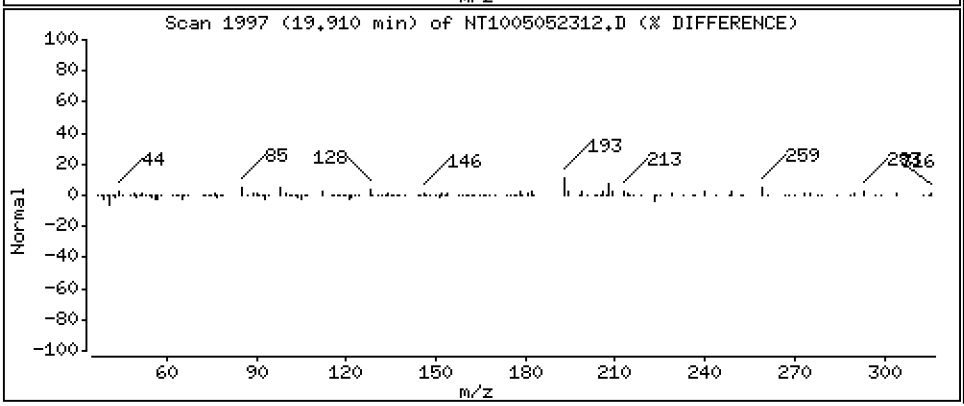












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

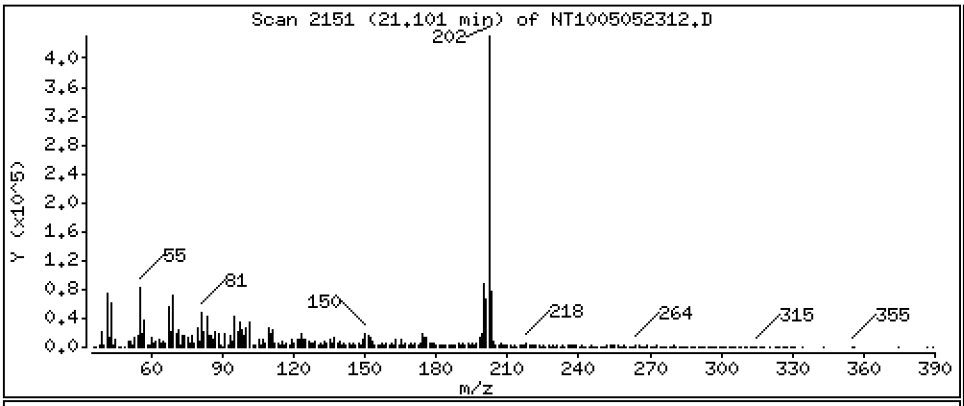
Operator: VTS

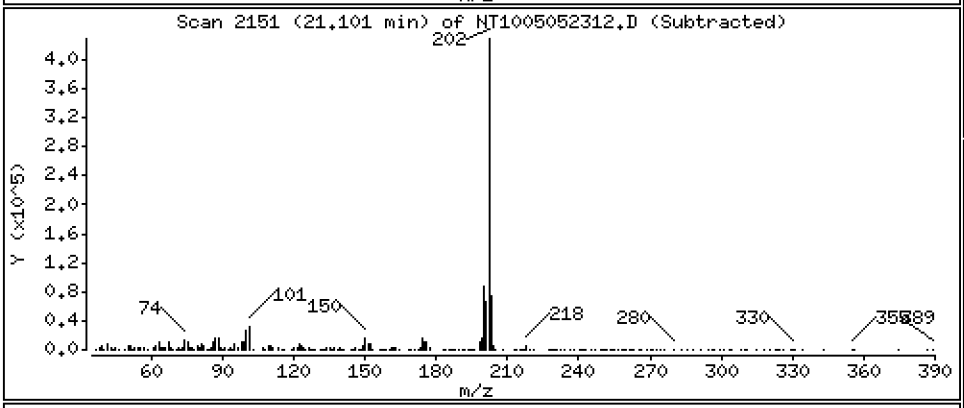
Column phase: ZB-5msi

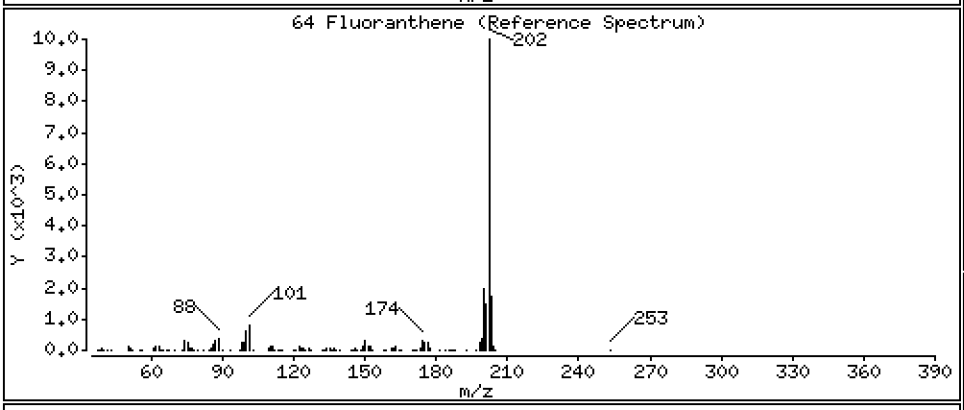
Column diameter: 0.25

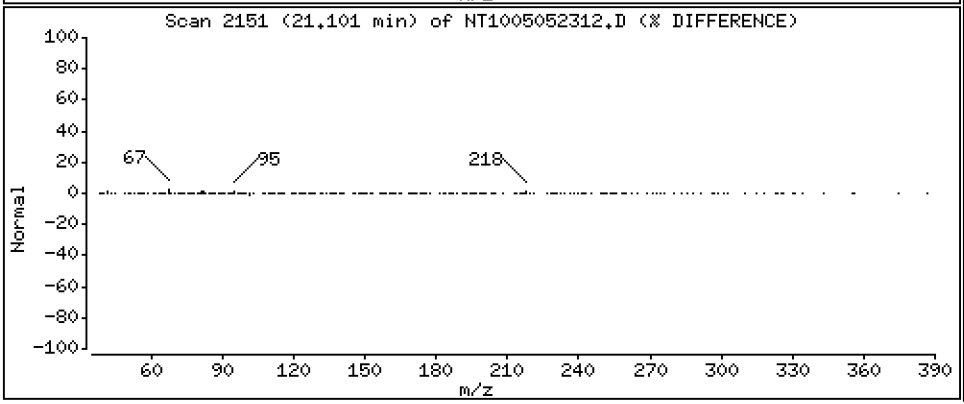
64 Fluoranthene

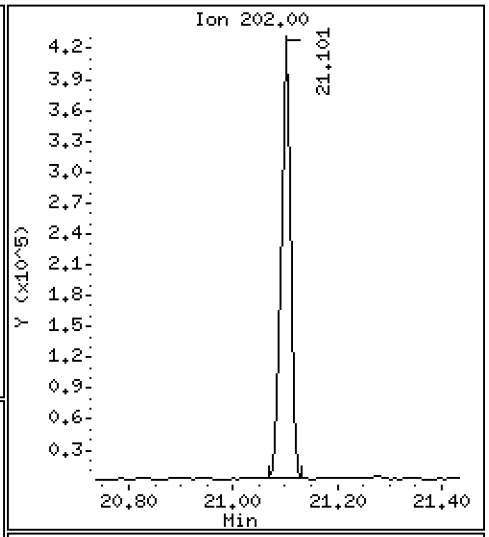
Concentration: 2.578 ug/mL

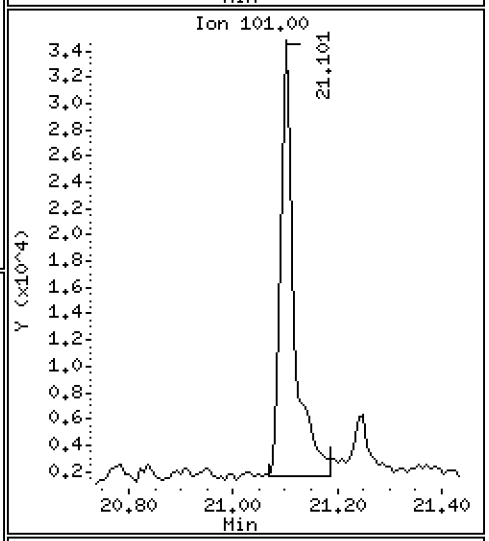


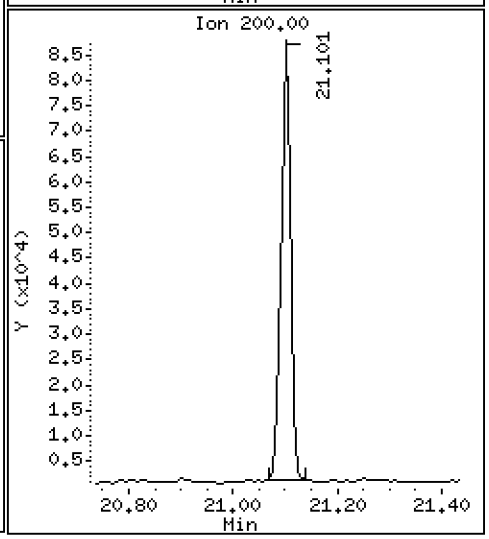












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

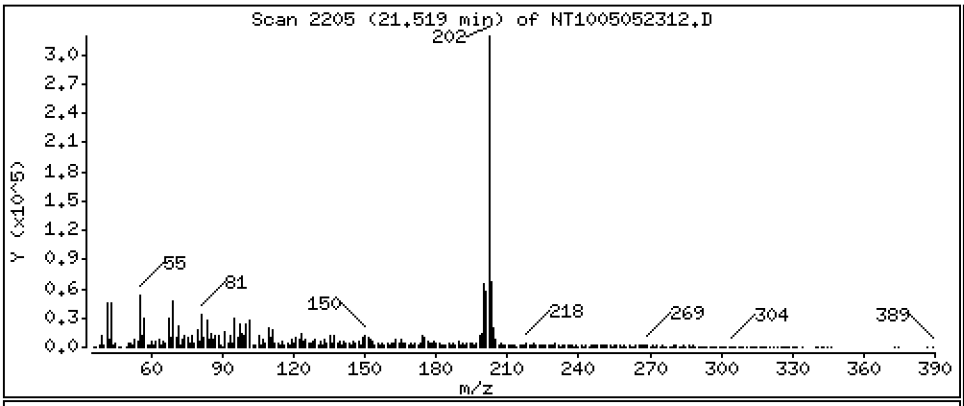
Operator: VTS

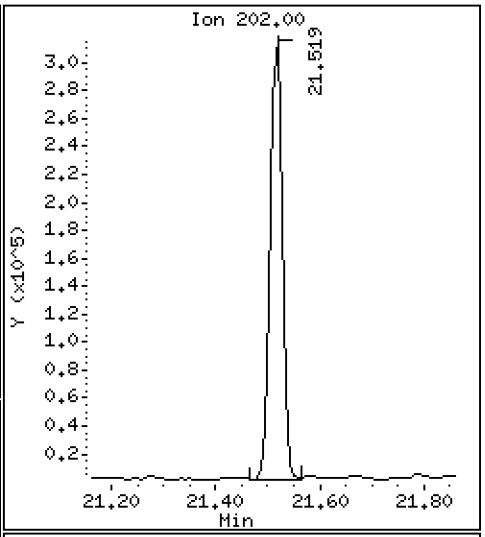
Column phase: ZB-5msi

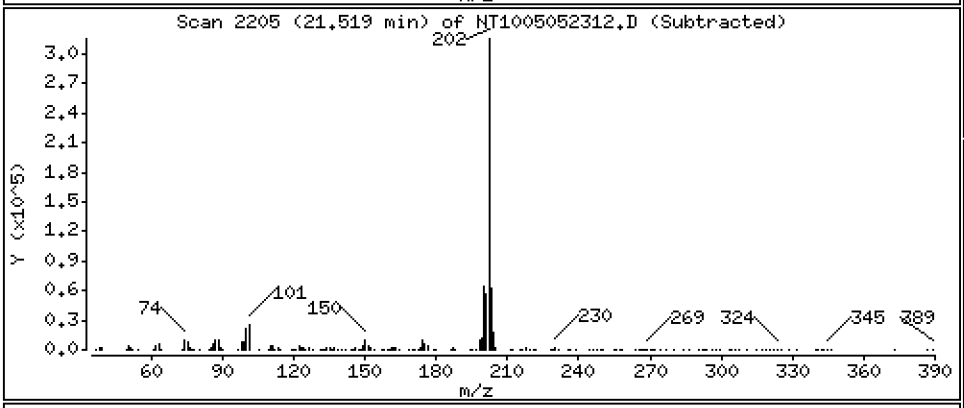
Column diameter: 0.25

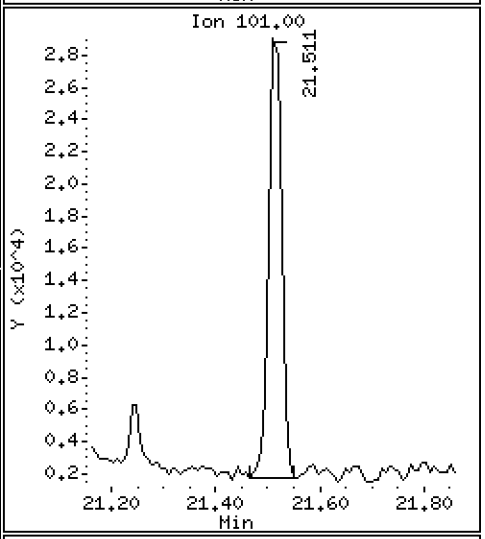
65 Pyrene

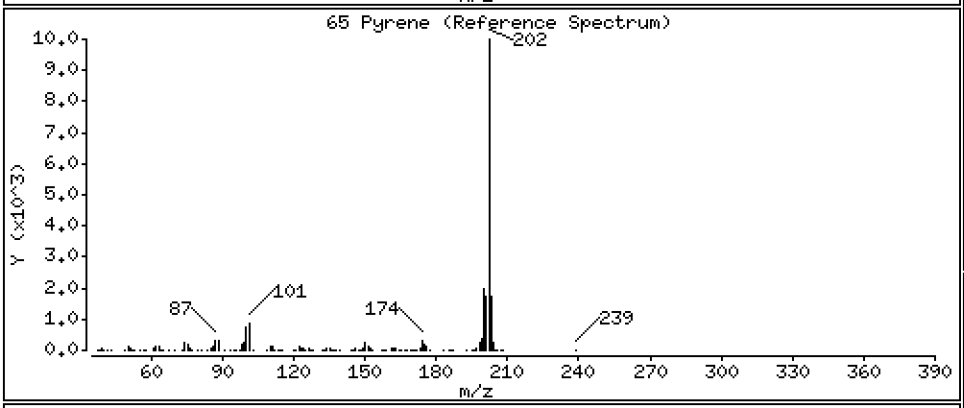
Concentration: 2.349 ug/mL

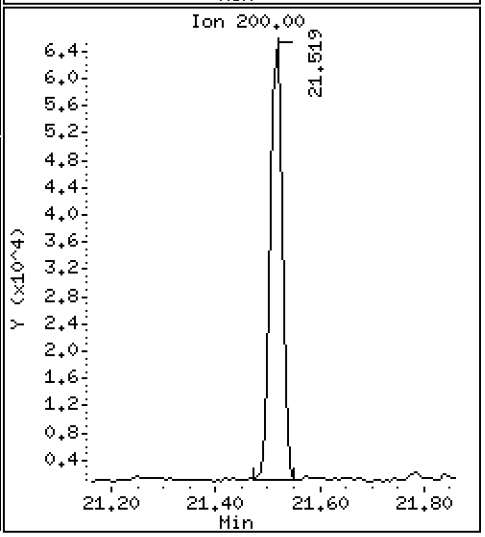


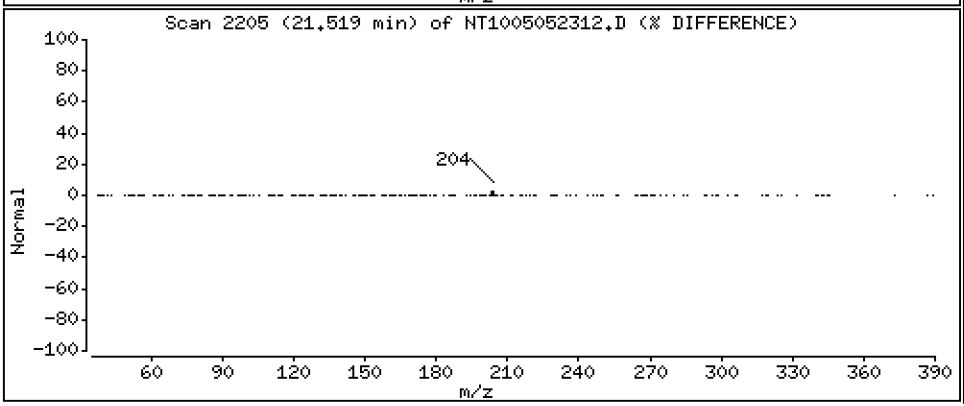












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

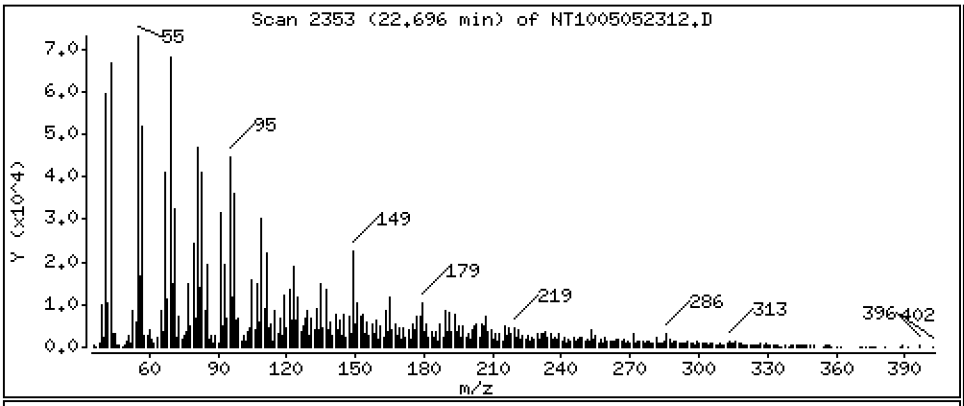
Operator: VTS

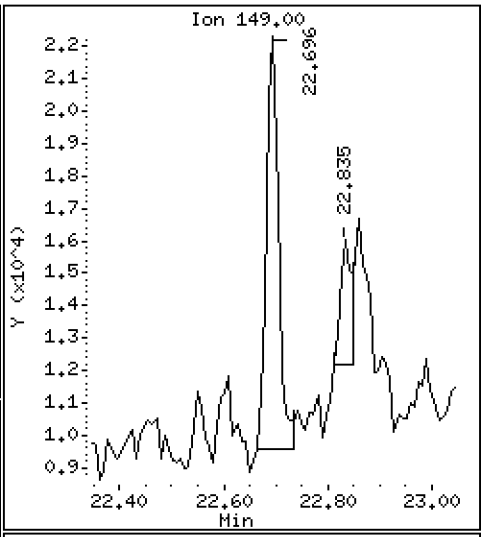
Column phase: ZB-5msi

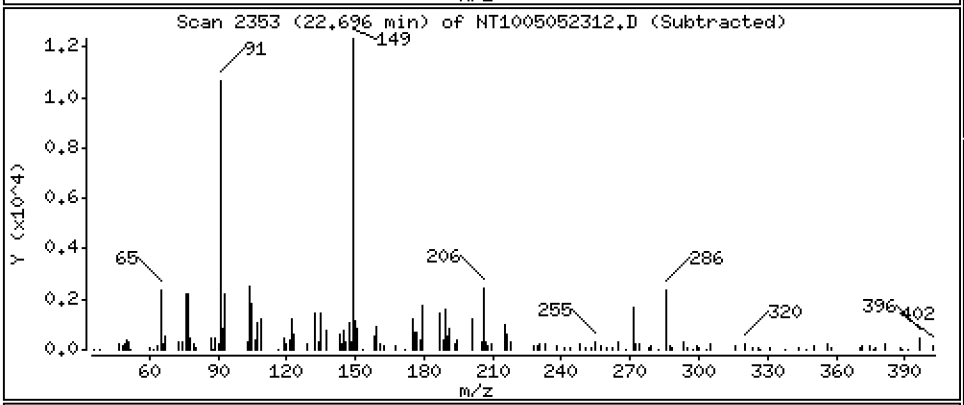
Column diameter: 0.25

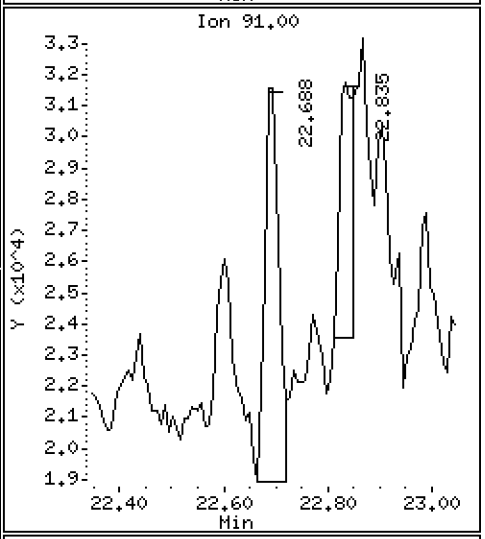
67 Butylbenzylphthalate

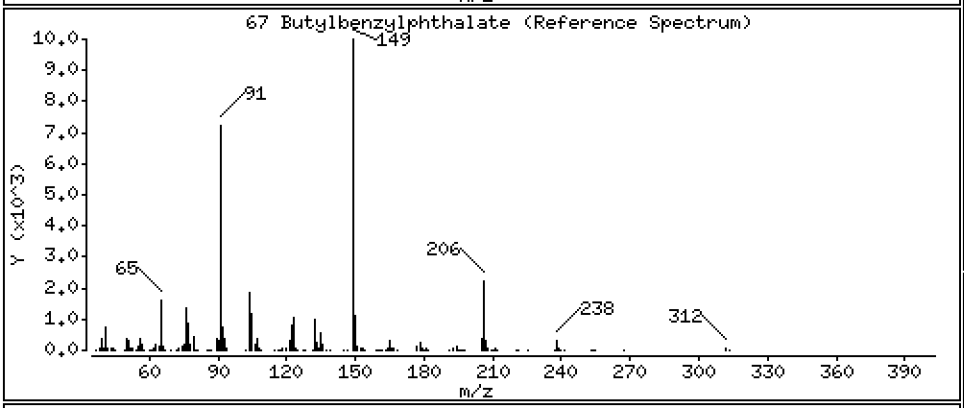
Concentration: 0.2078 ug/mL

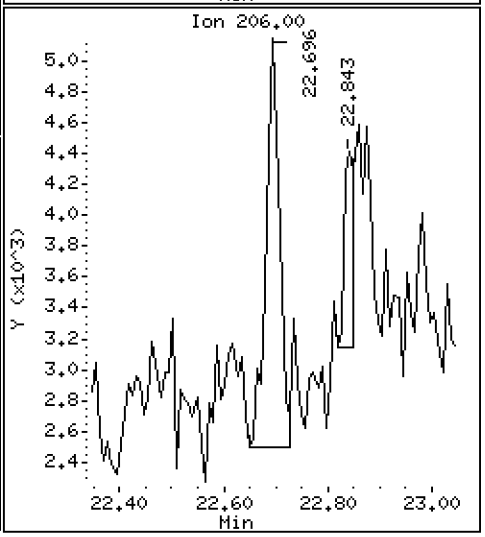


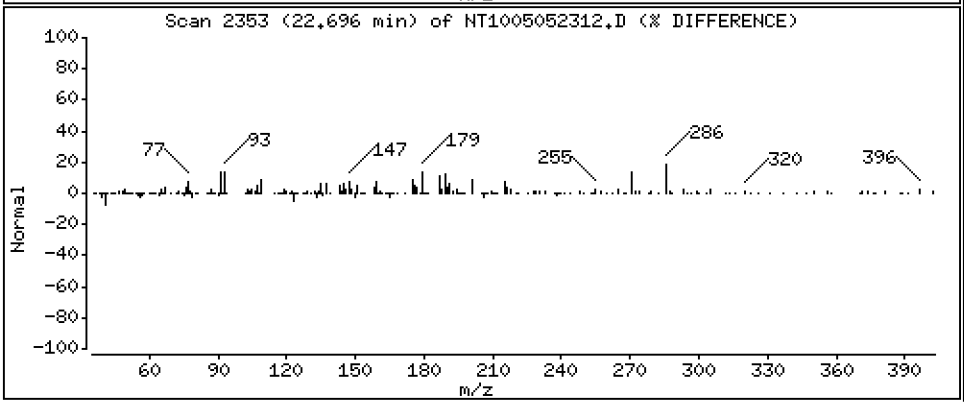












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

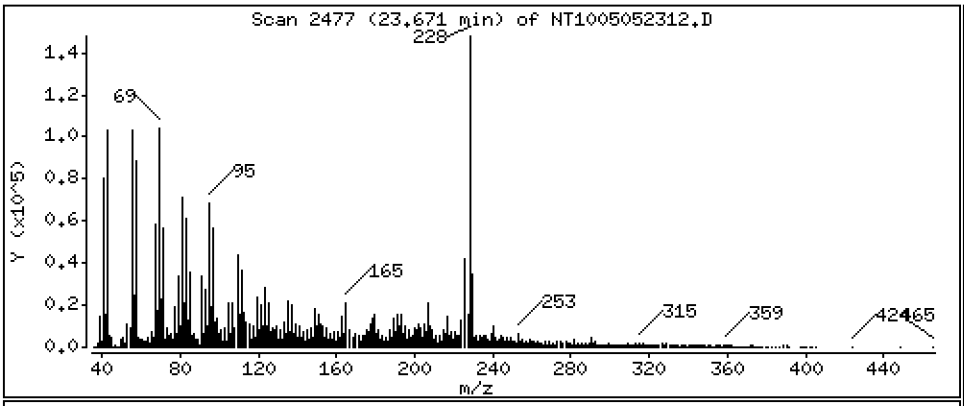
Operator: VTS

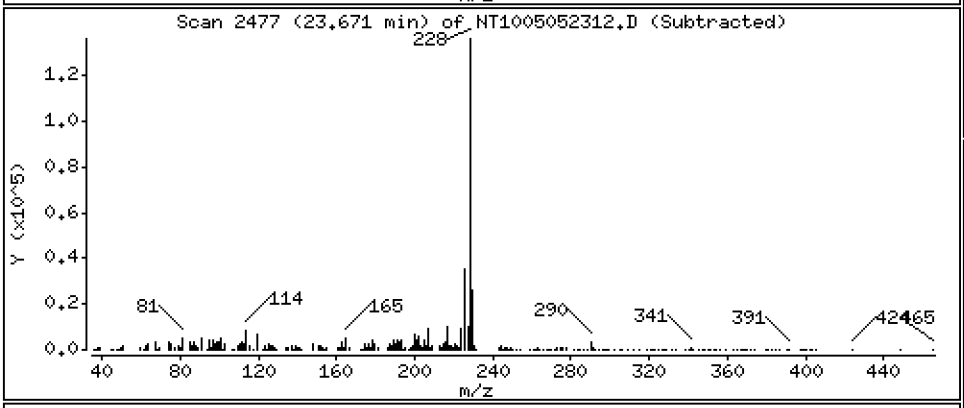
Column phase: ZB-5msi

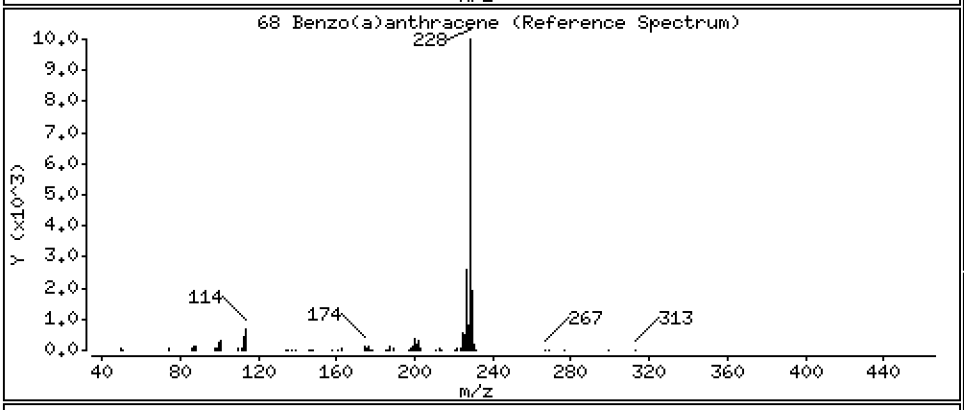
Column diameter: 0.25

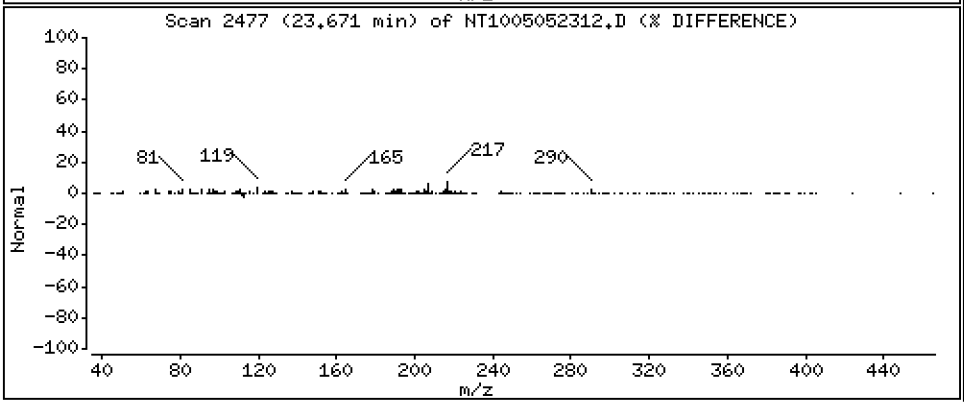
68 Benzo(a)anthracene

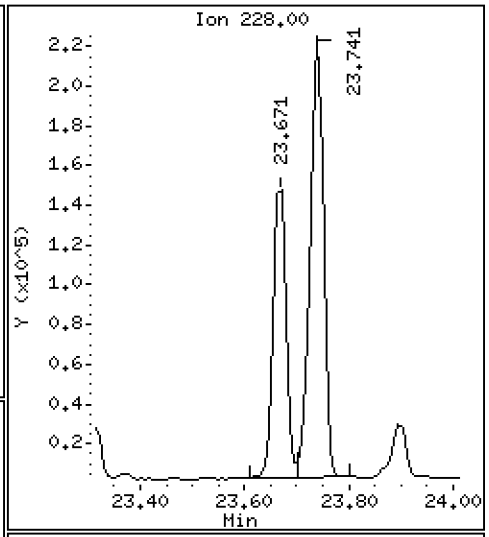
Concentration: 1.351 ug/mL

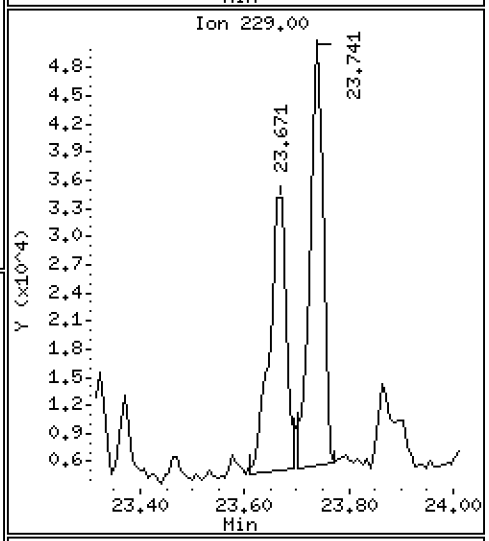


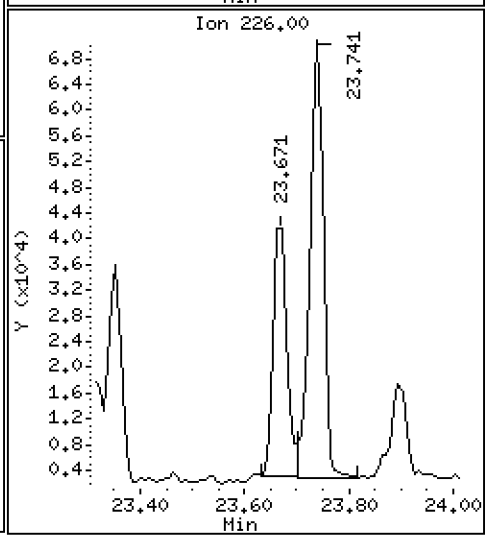












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

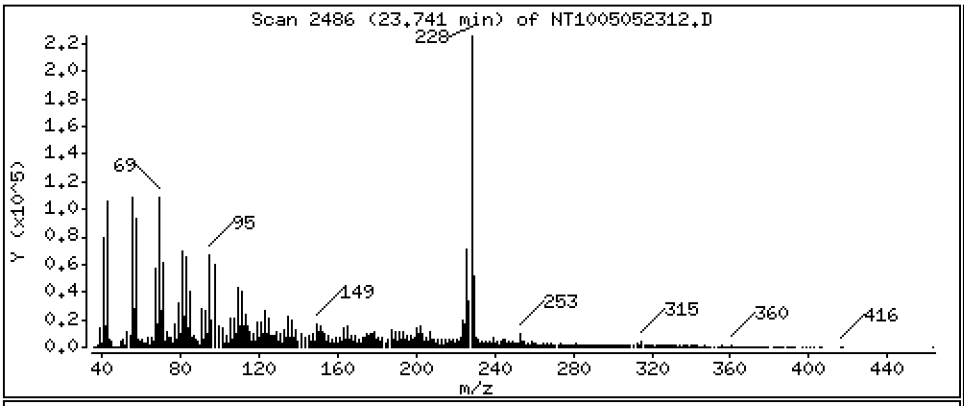
Operator: VTS

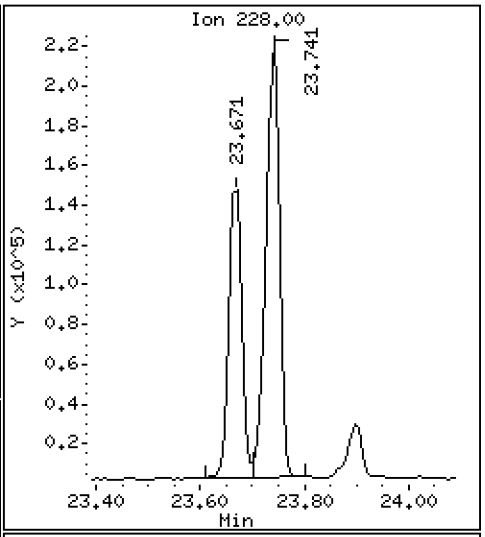
Column phase: ZB-5msi

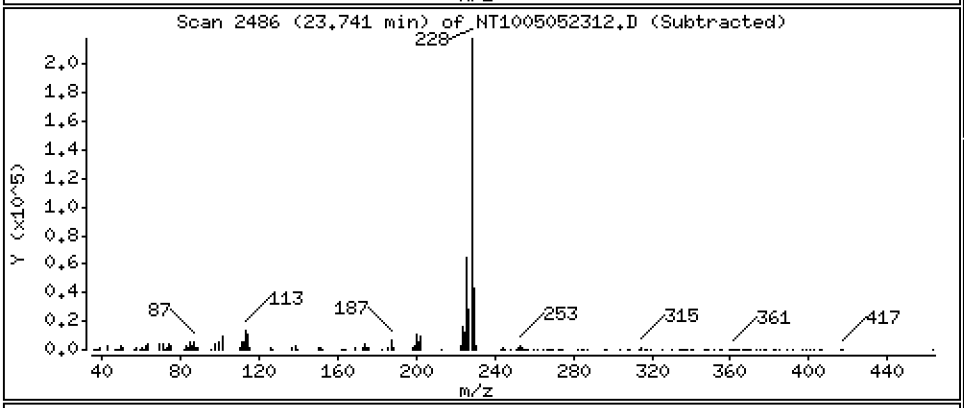
Column diameter: 0.25

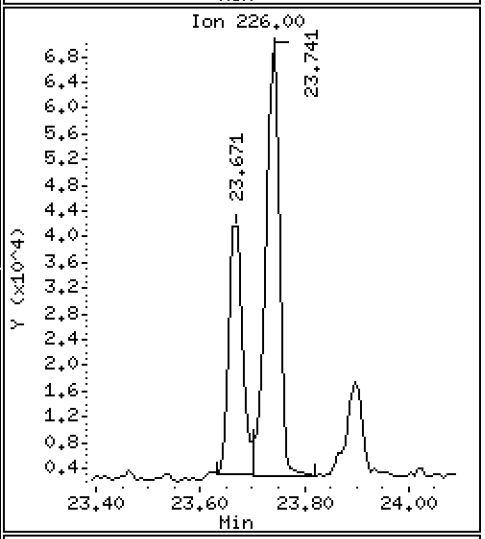
71 Chrysene

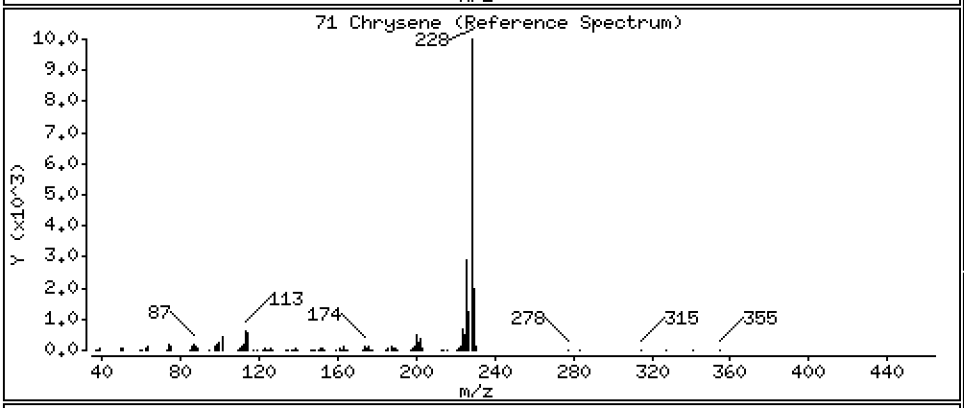
Concentration: 2.333 ug/mL

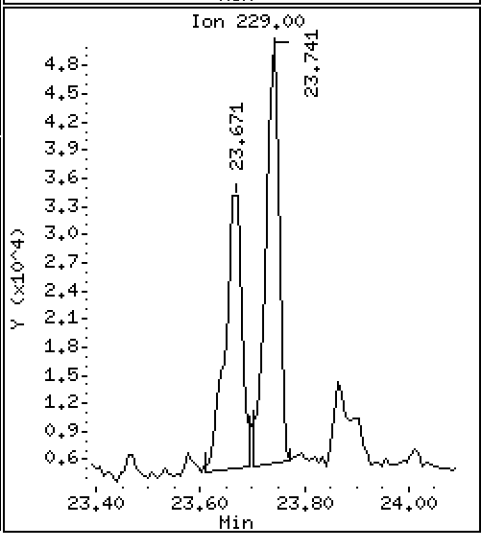


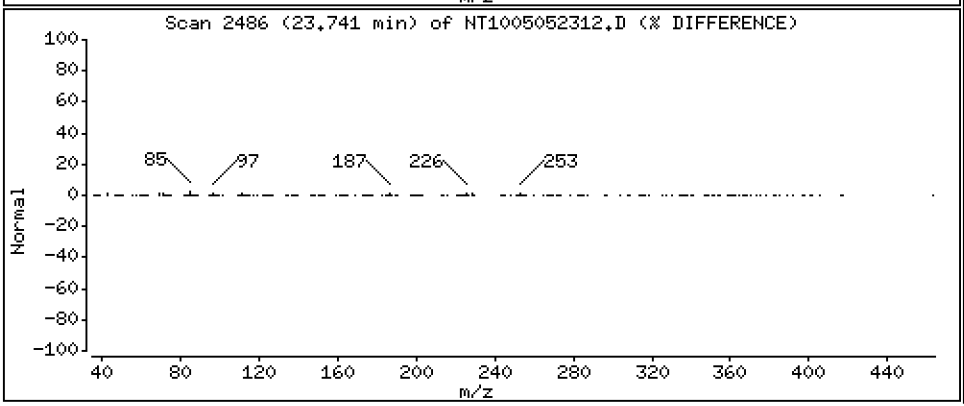












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

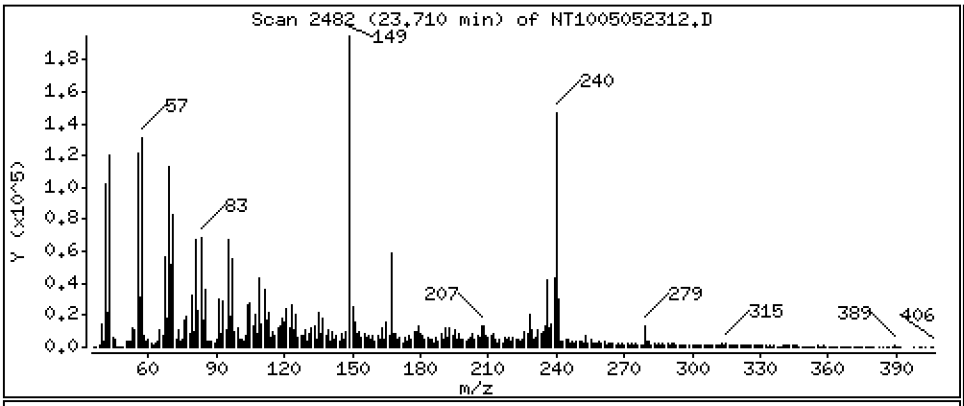
Operator: VTS

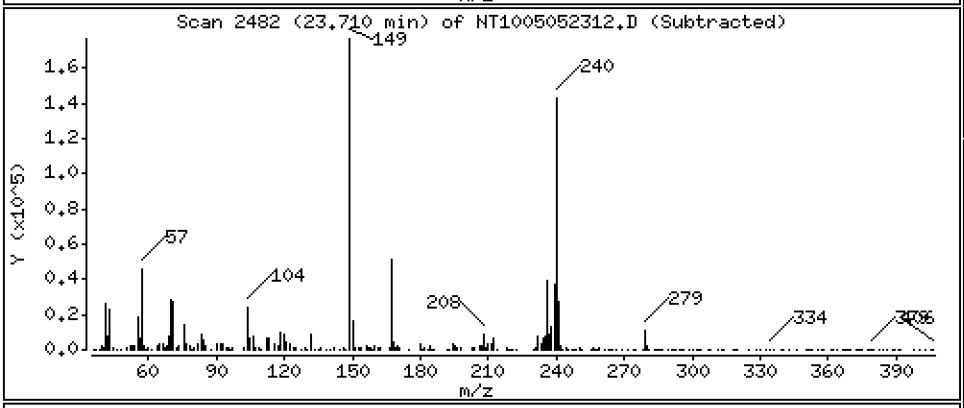
Column phase: ZB-5msi

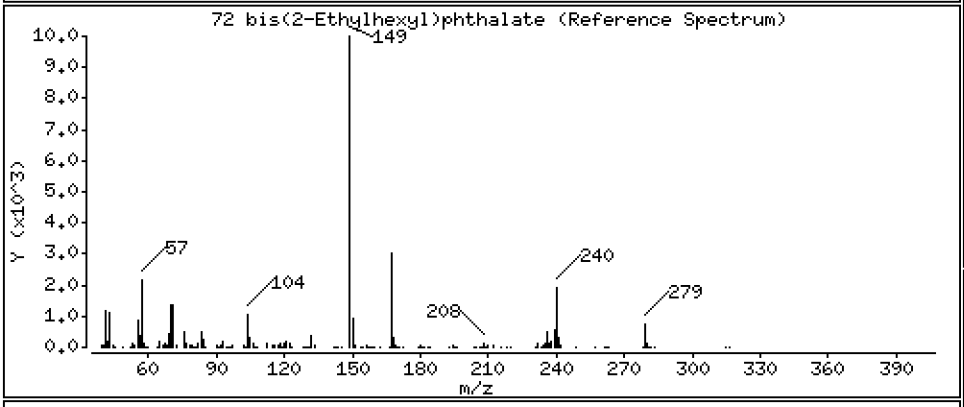
Column diameter: 0.25

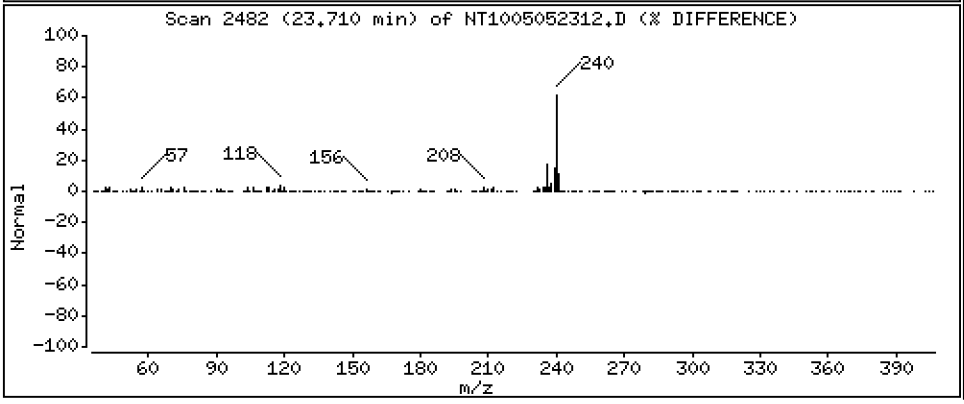
72 bis(2-Ethylhexyl)phthalate

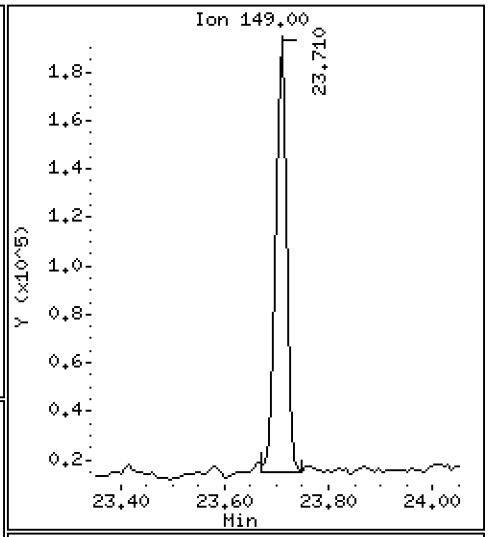
Concentration: 1.964 ug/mL

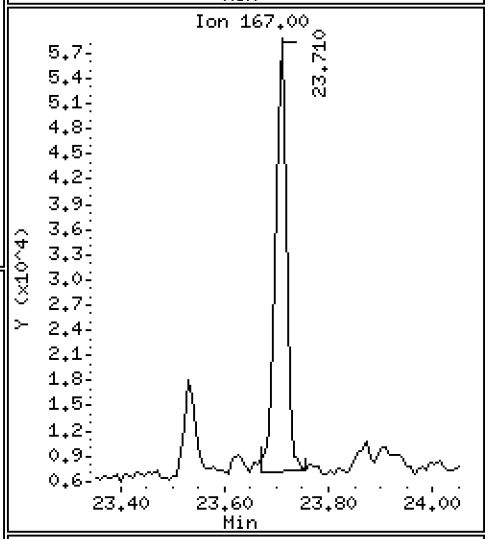


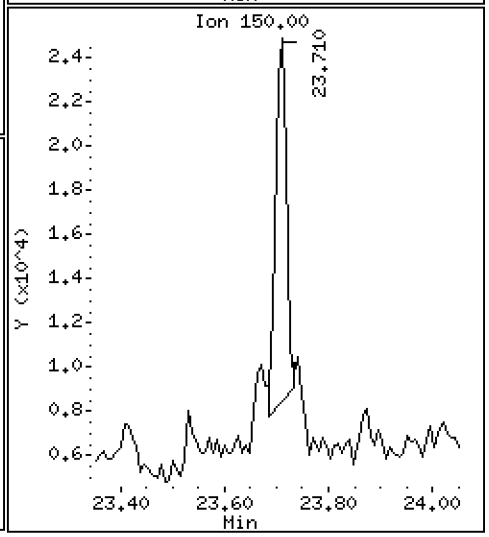












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

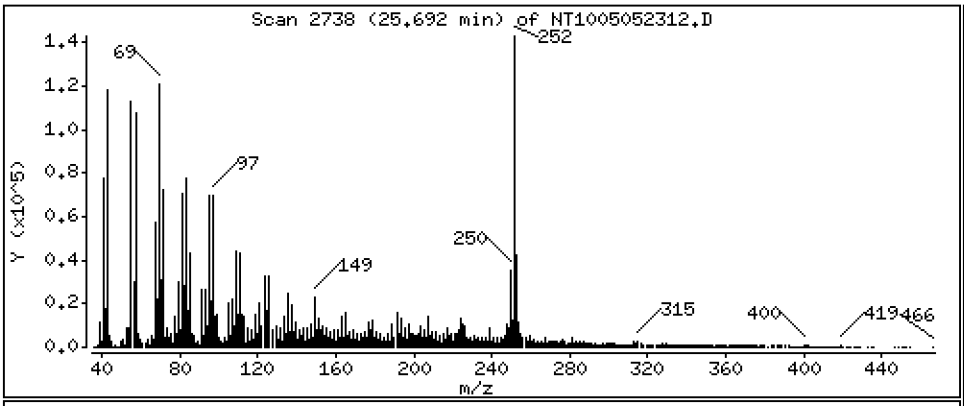
Operator: VTS

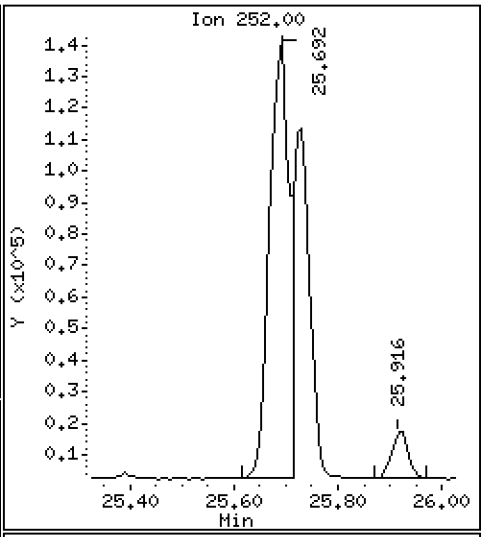
Column phase: ZB-5msi

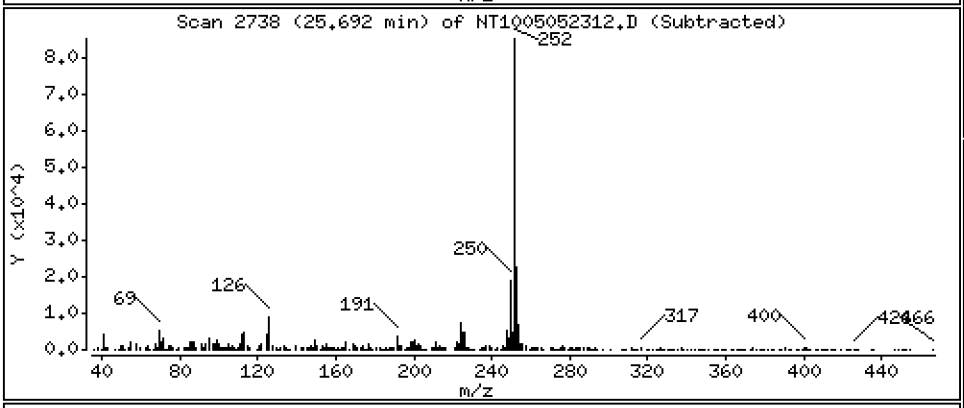
Column diameter: 0.25

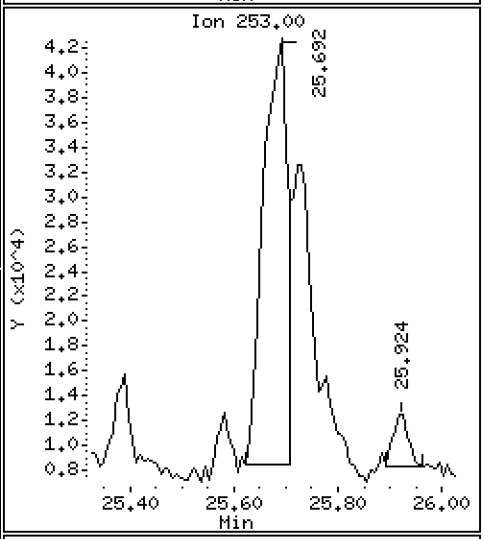
74 Benzo(b)fluoranthene

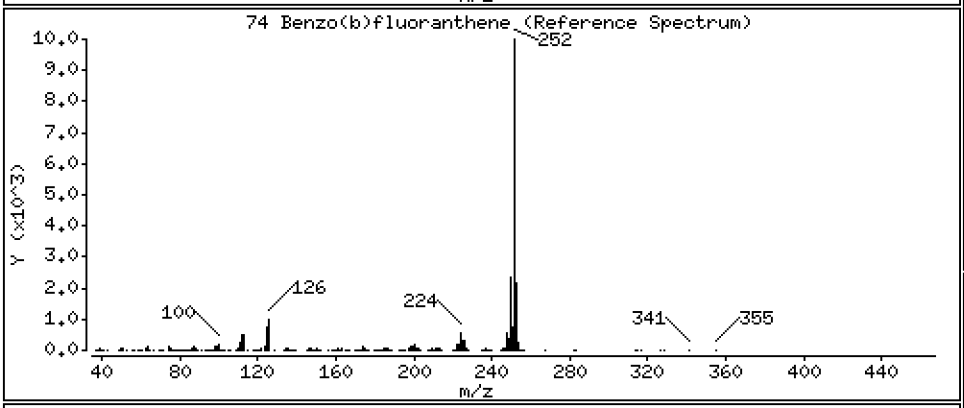
Concentration: 2.385 ug/mL

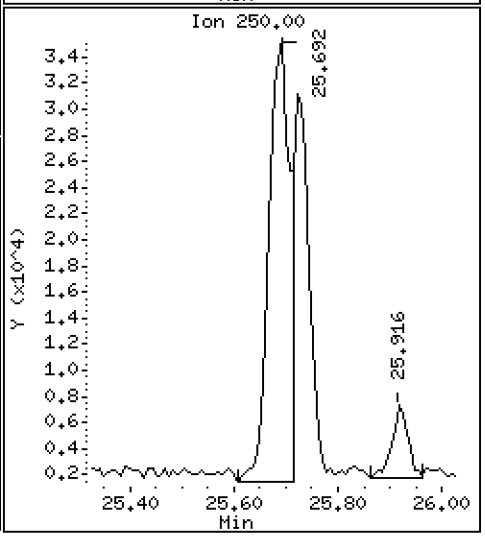


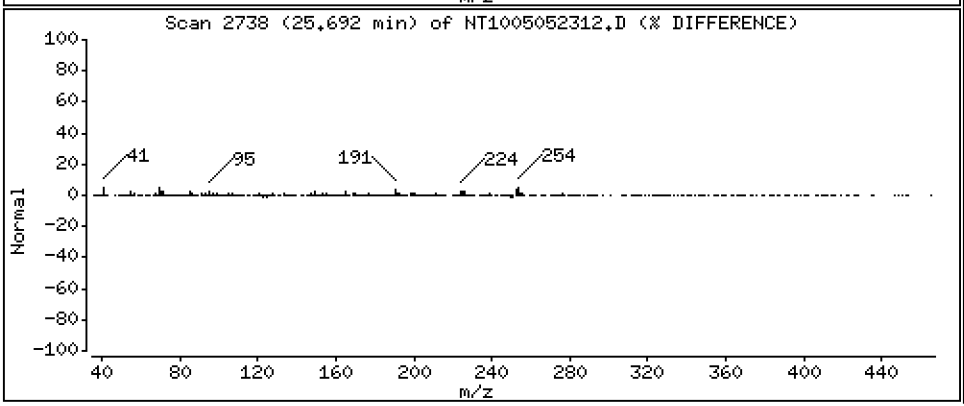












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

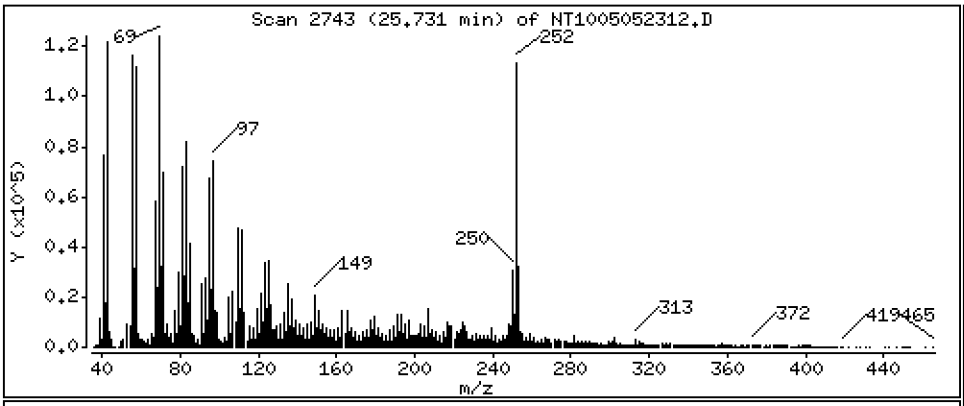
Operator: VTS

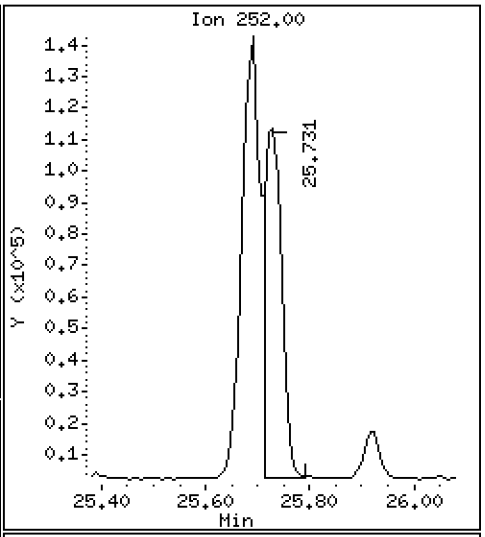
Column phase: ZB-5msi

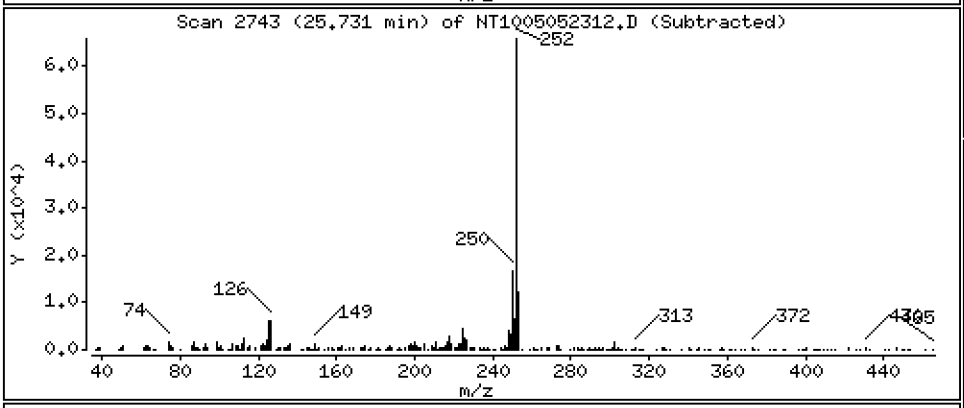
Column diameter: 0.25

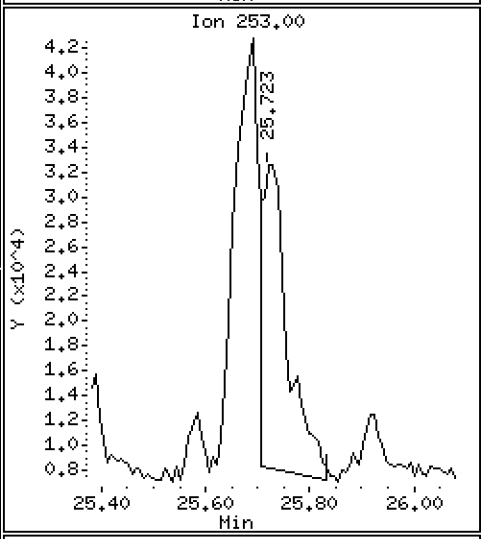
75 Benzo(k)fluoranthene

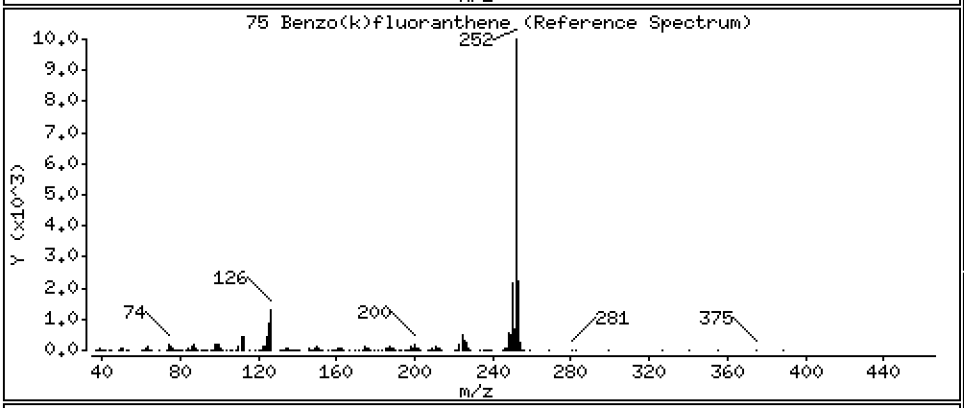
Concentration: 1.523 ug/mL

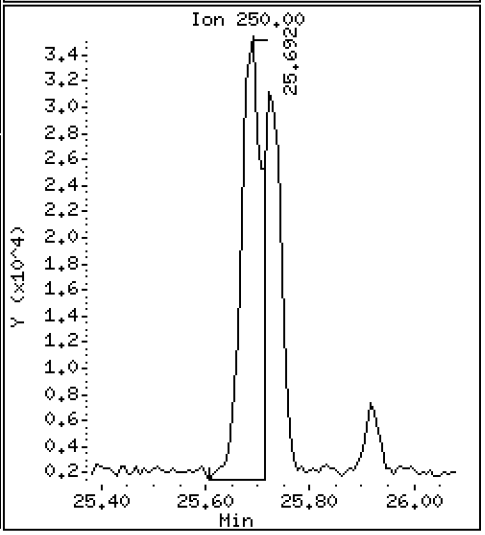


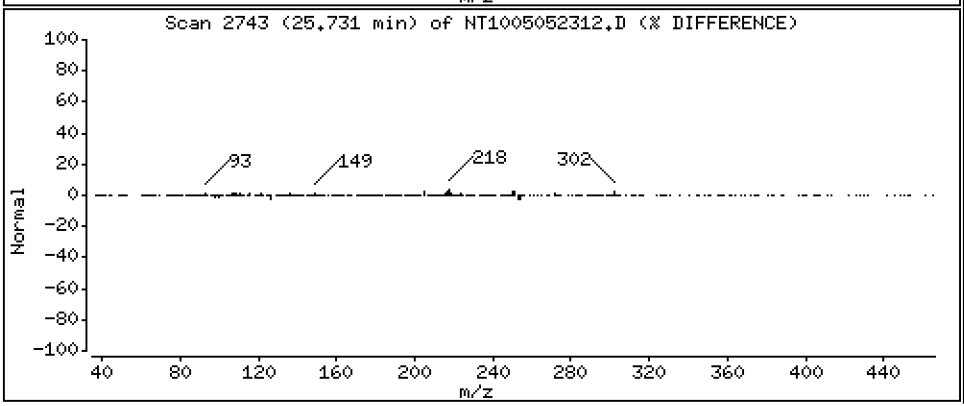












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

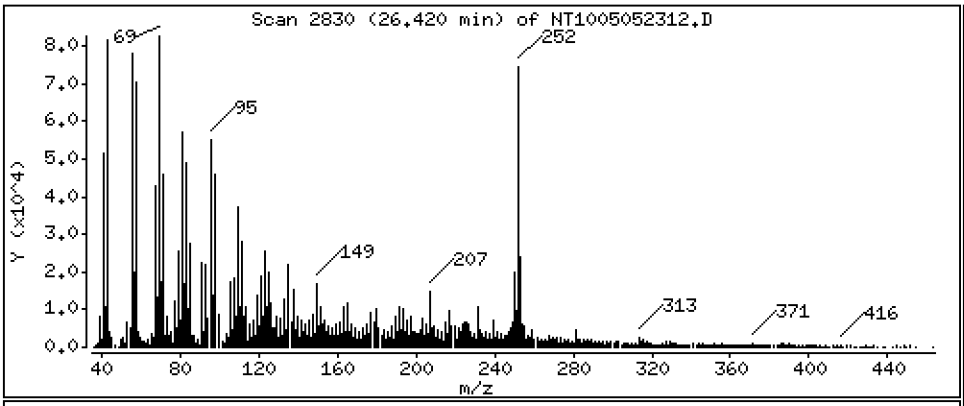
Operator: VTS

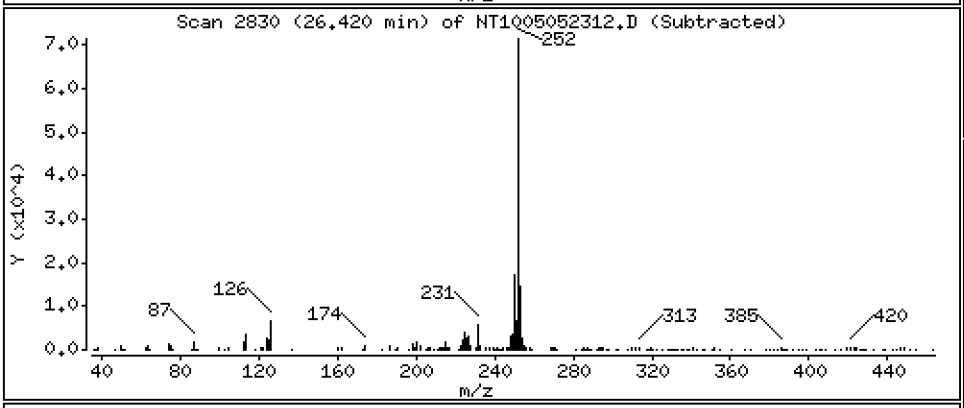
Column phase: ZB-5msi

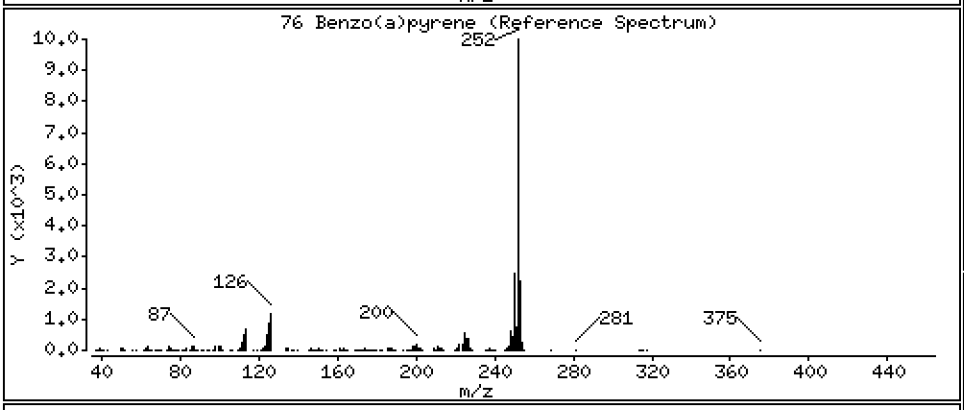
Column diameter: 0.25

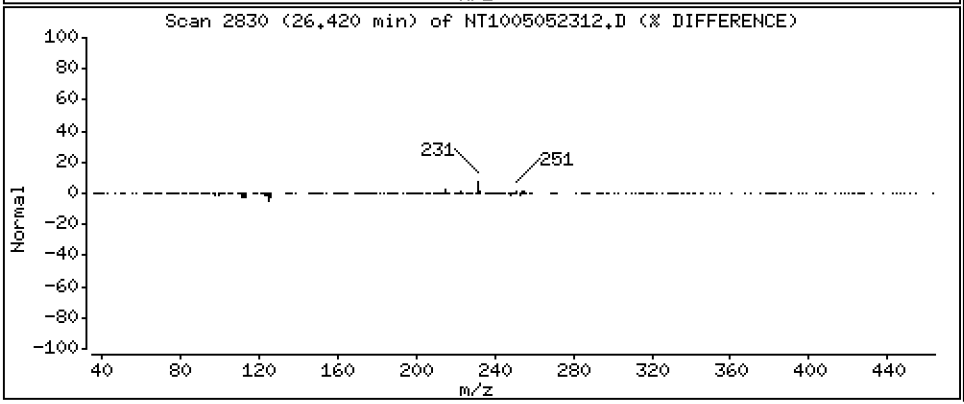
76 Benzo(a)pyrene

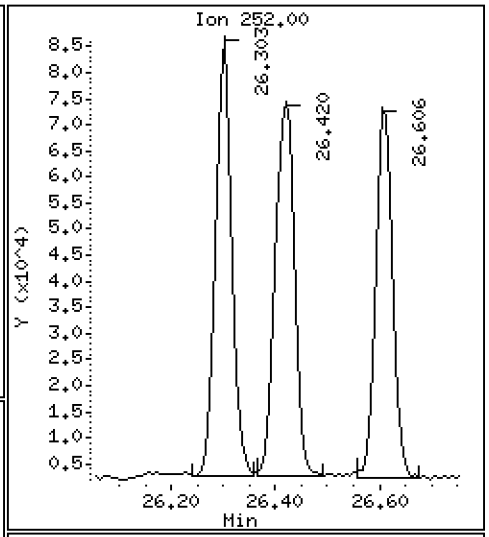
Concentration: 1.358 ug/mL

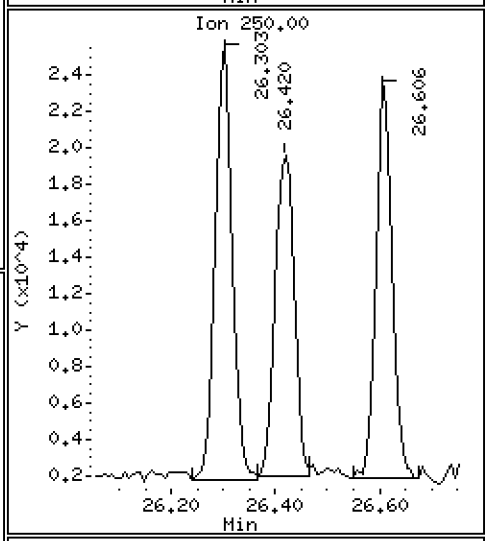


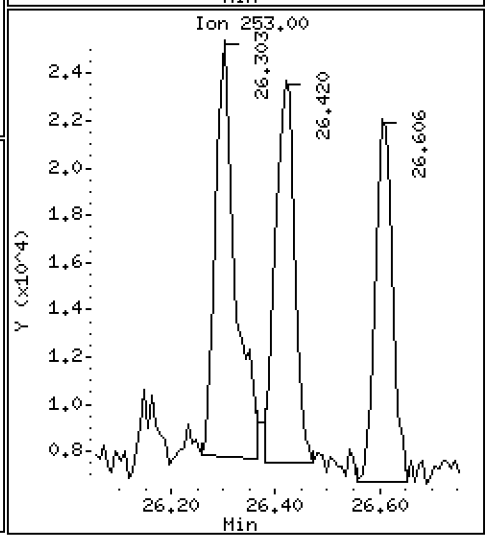












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

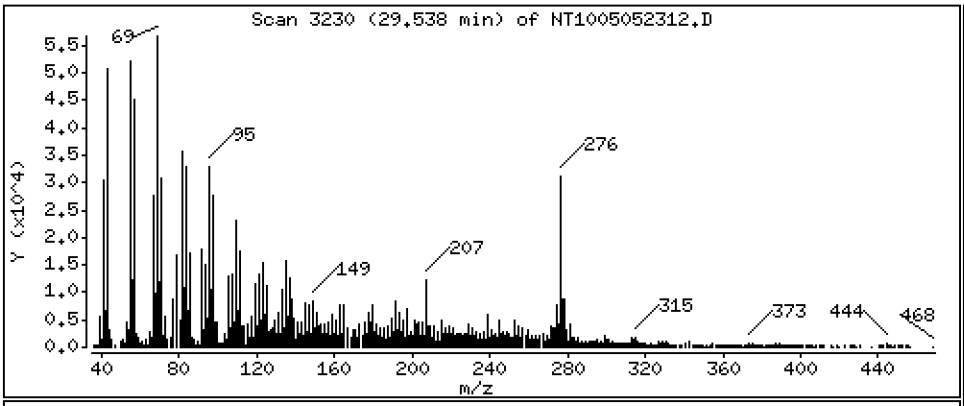
Operator: VTS

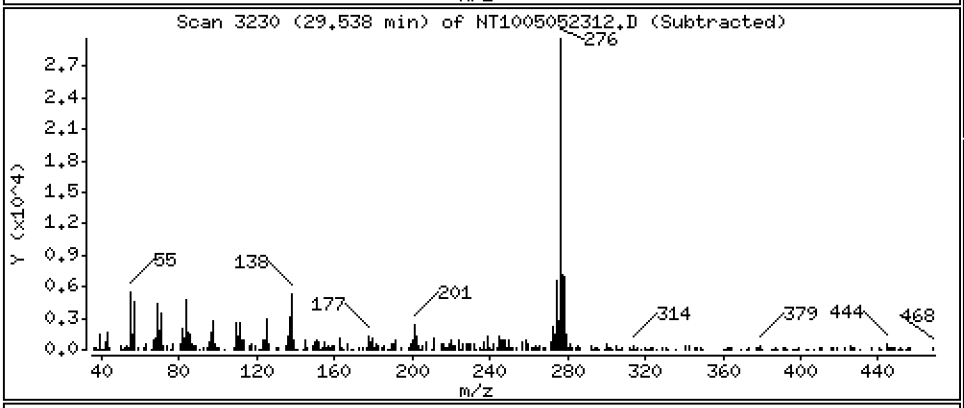
Column phase: ZB-5msi

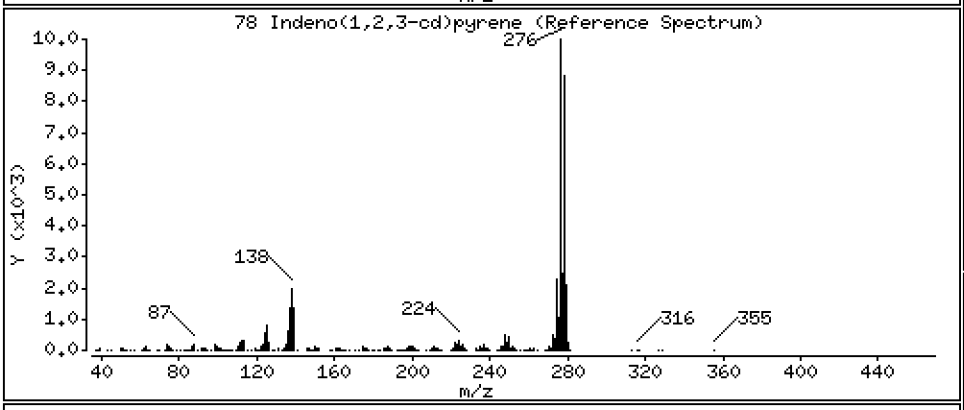
Column diameter: 0.25

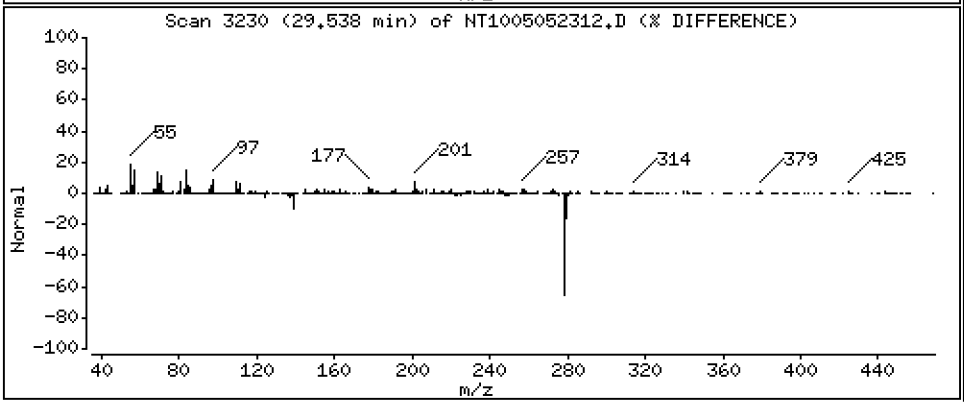
78 Indeno(1,2,3-cd)pyrene

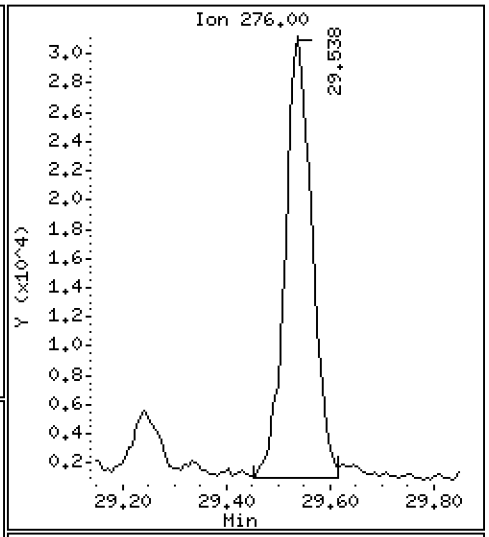
Concentration: 0.6889 ug/mL

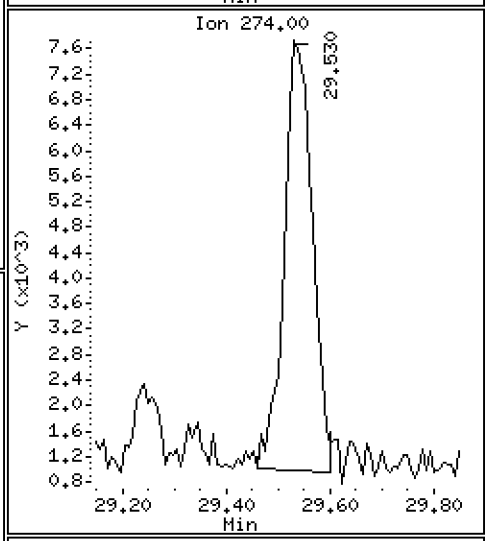


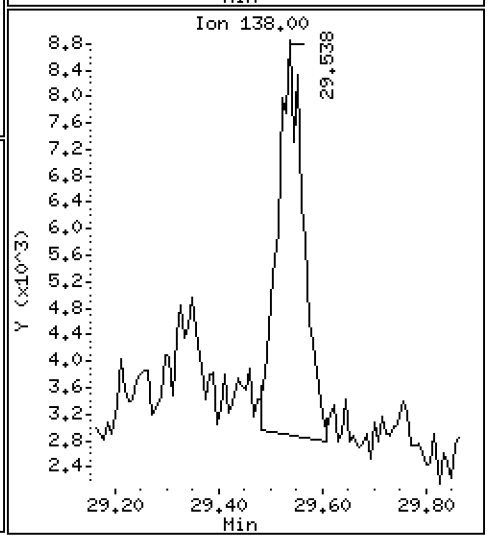












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

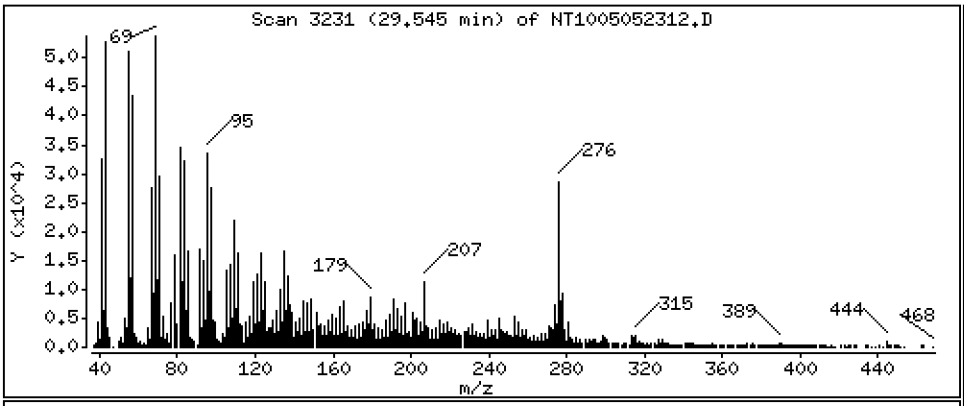
Operator: VTS

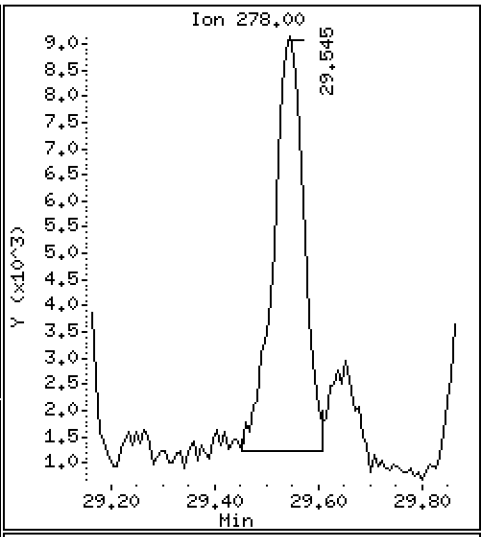
Column phase: ZB-5msi

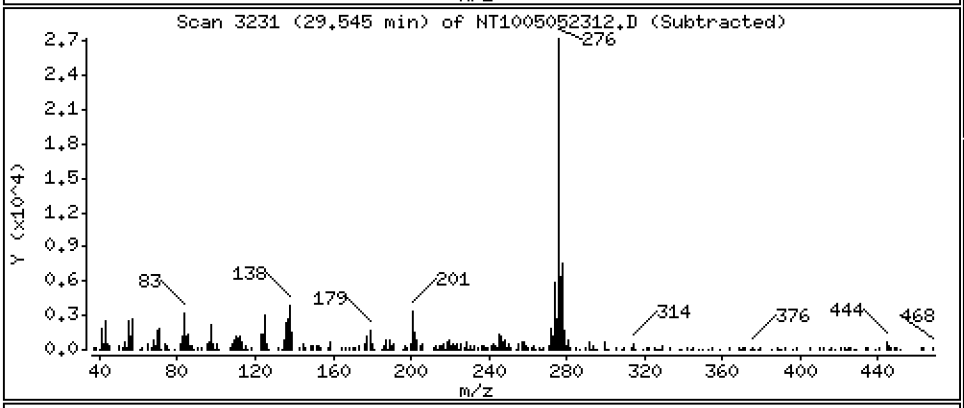
Column diameter: 0.25

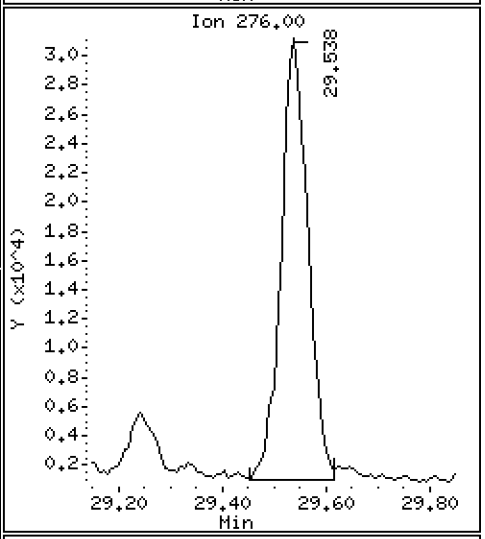
79 Dibenzo(a,h)anthracene

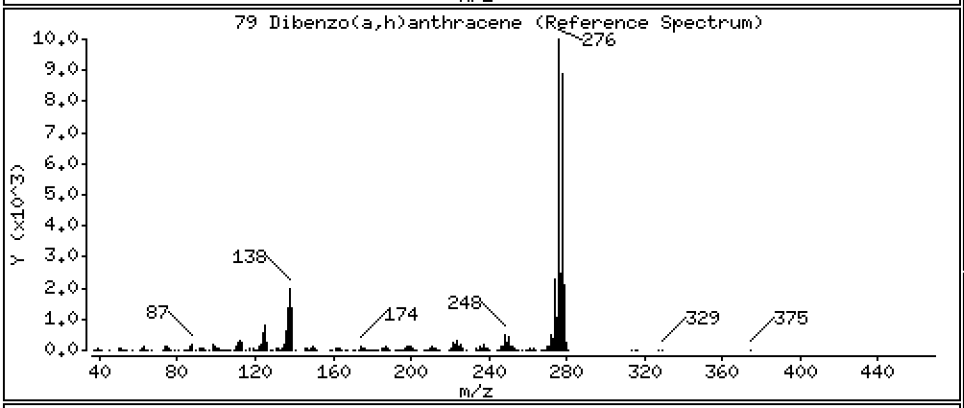
Concentration: 0.2427 ug/mL

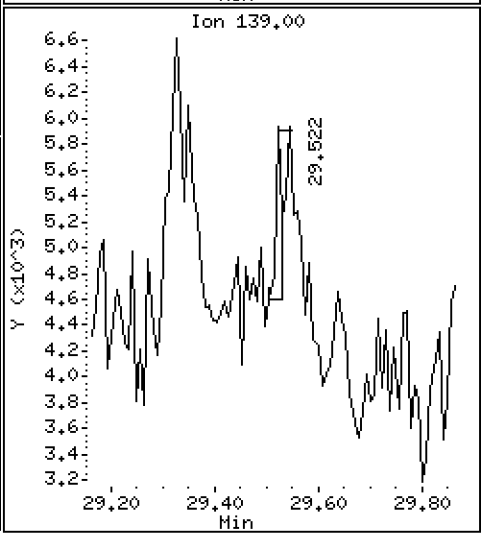


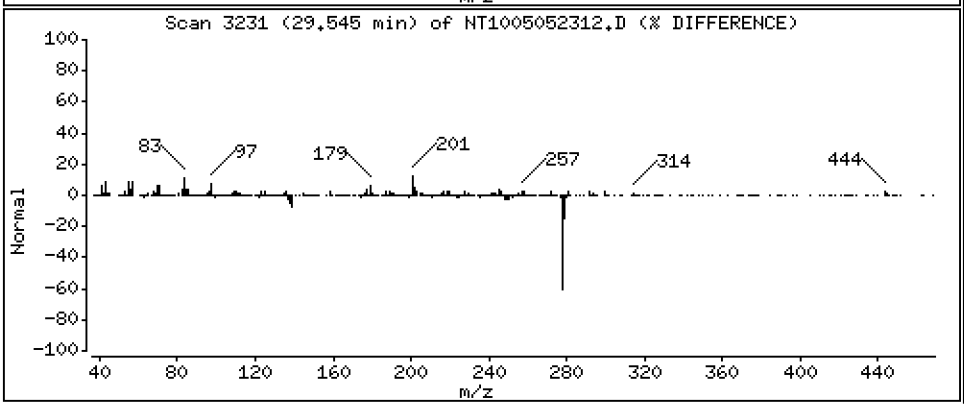












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

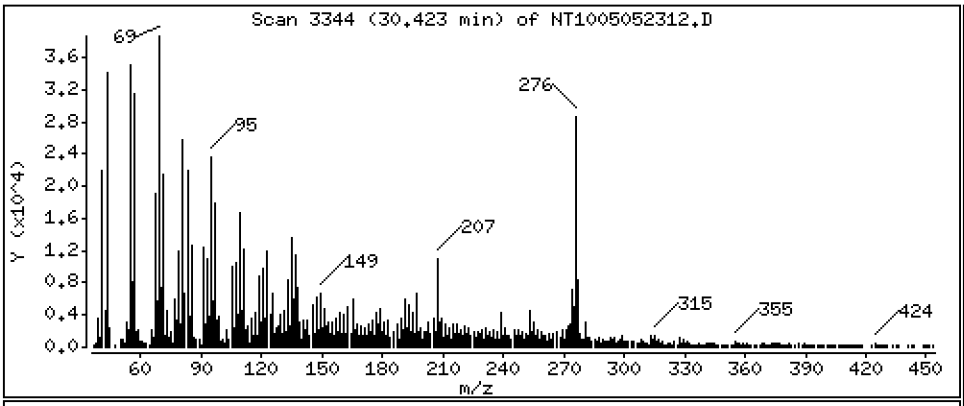
Operator: VTS

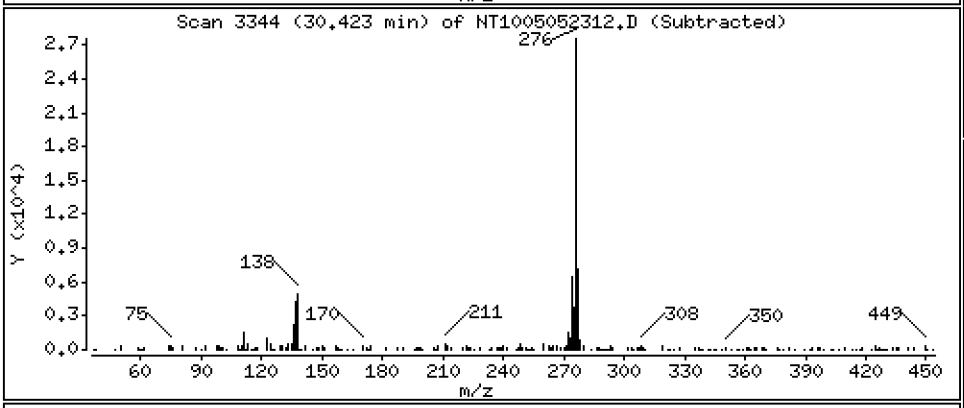
Column phase: ZB-5msi

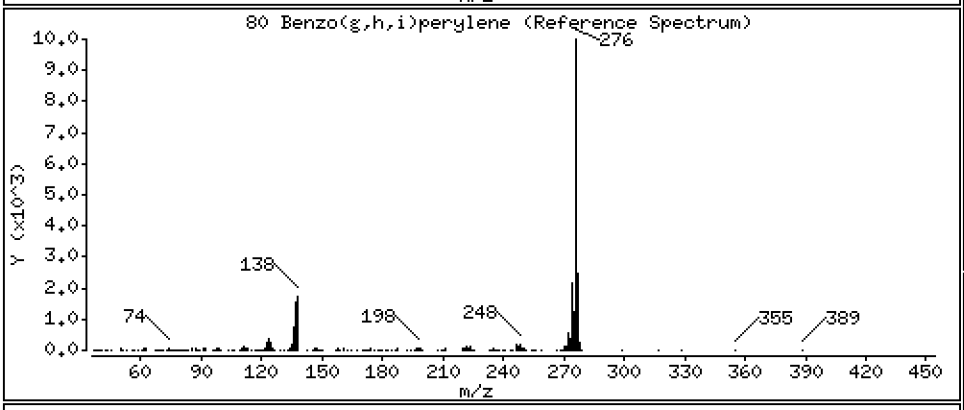
Column diameter: 0.25

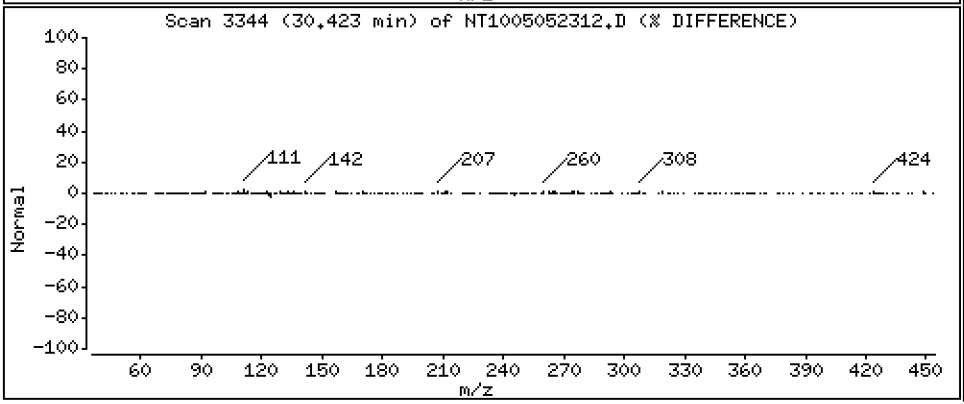
80 Benzo(g,h,i)perylene

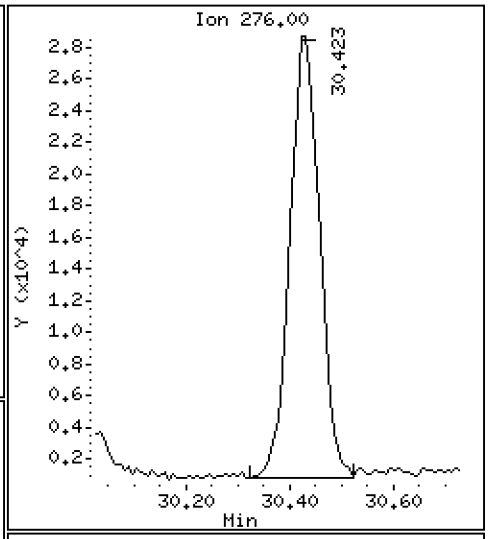
Concentration: 0.8707 ug/mL

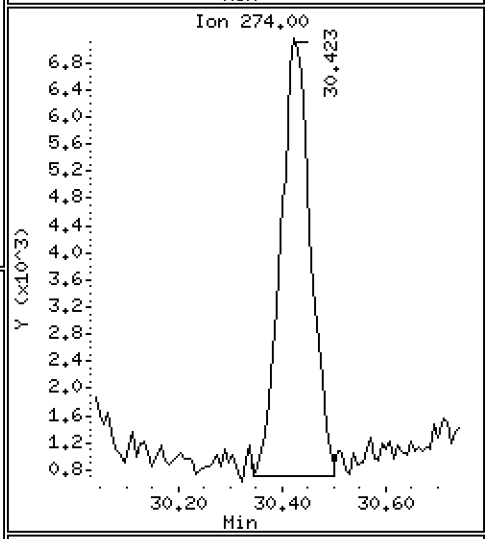


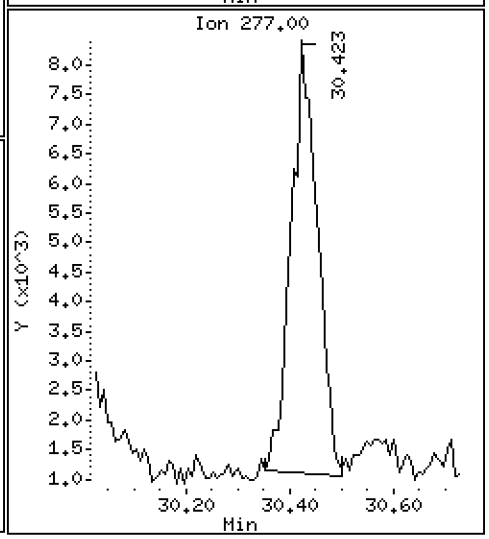












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

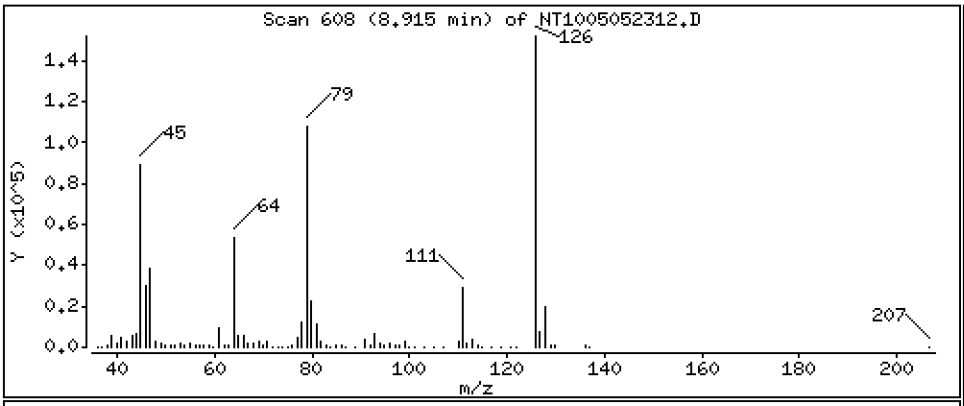
Operator: VTS

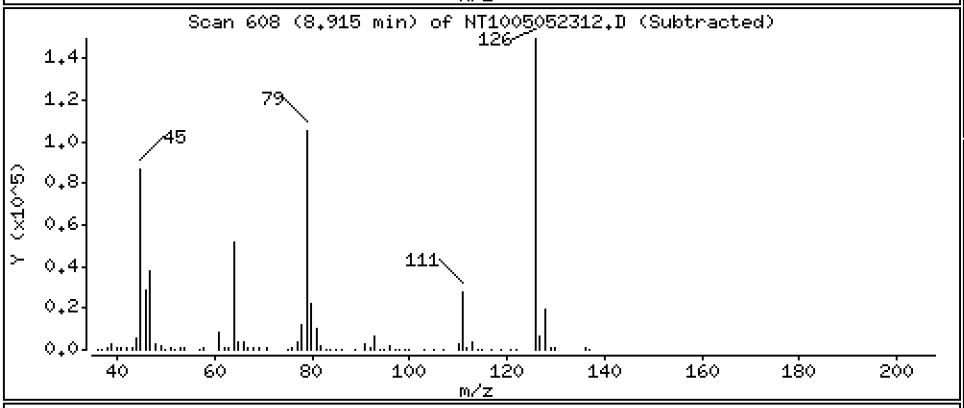
Column phase: ZB-5msi

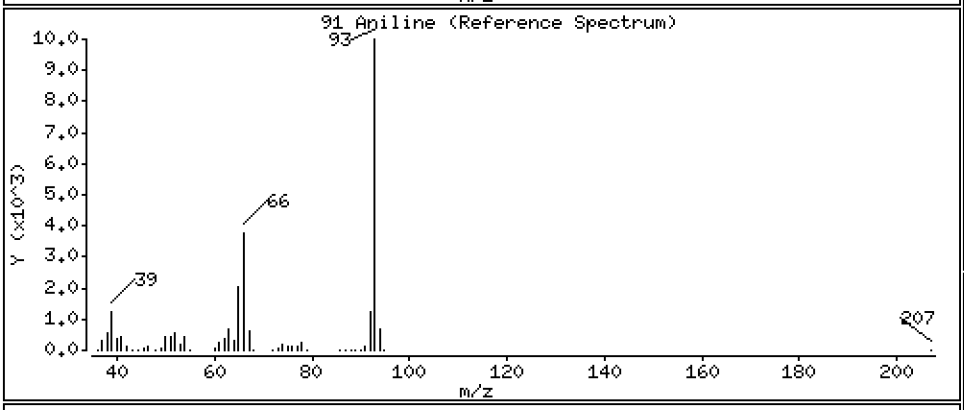
Column diameter: 0.25

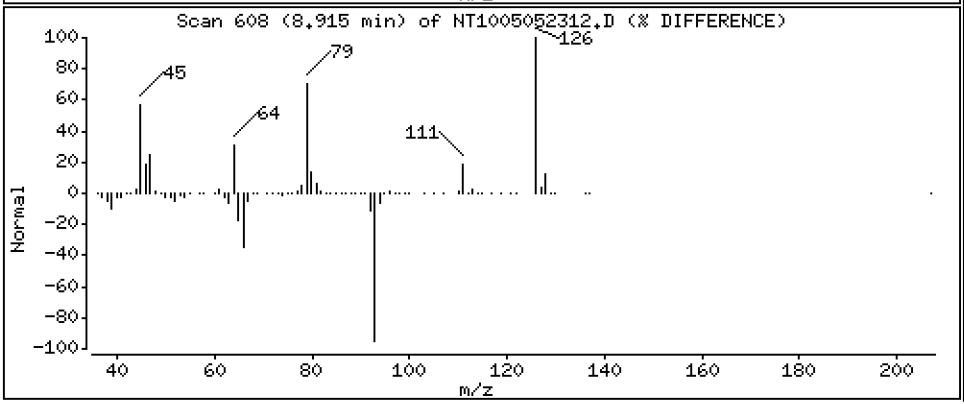
91 Aniline

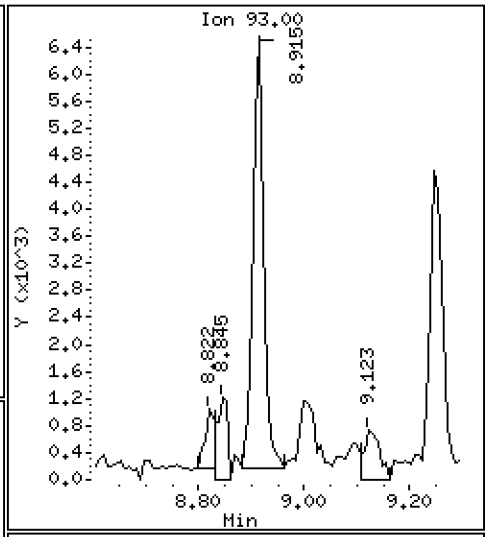
Concentration: 0.1758 ug/mL

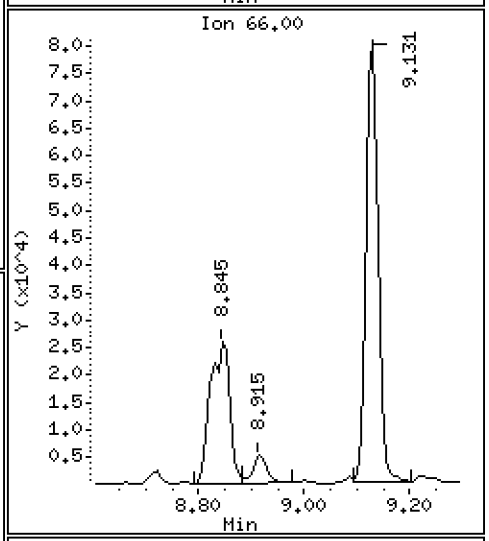


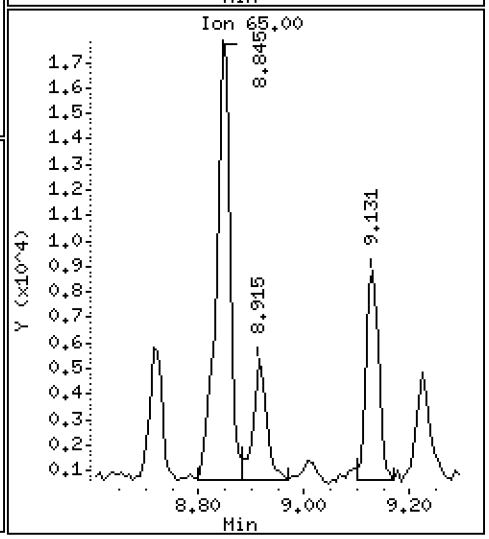












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

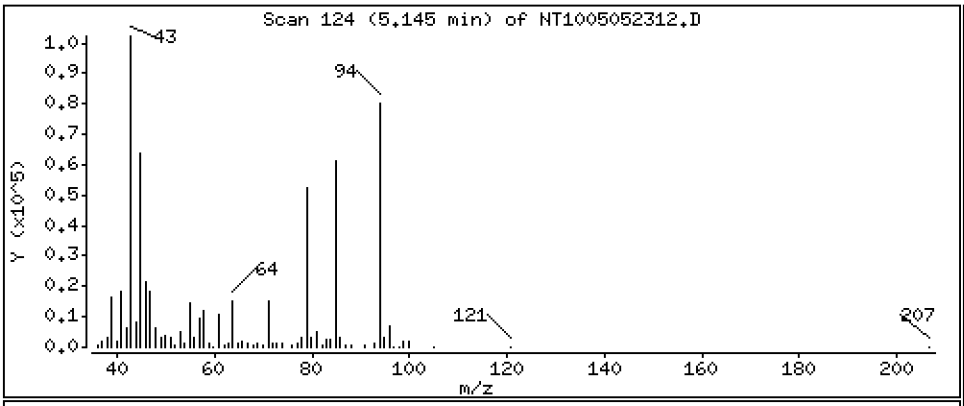
Operator: VTS

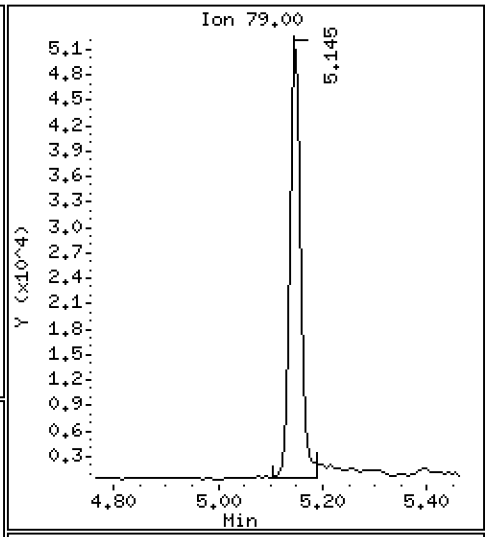
Column phase: ZB-5msi

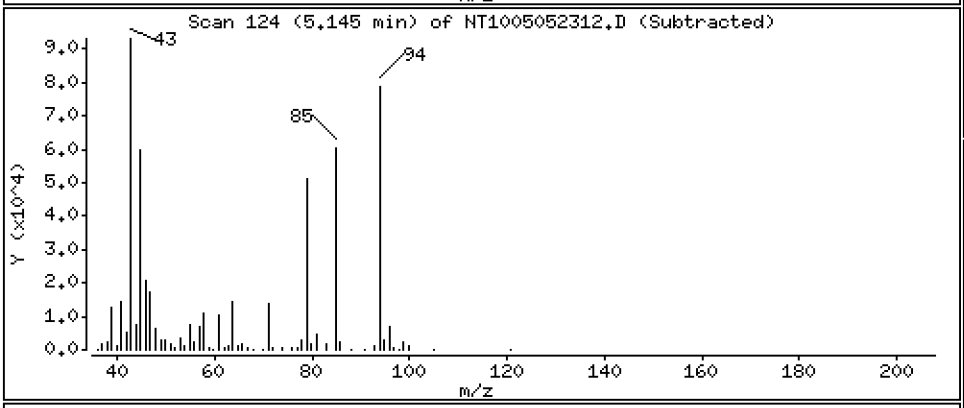
Column diameter: 0.25

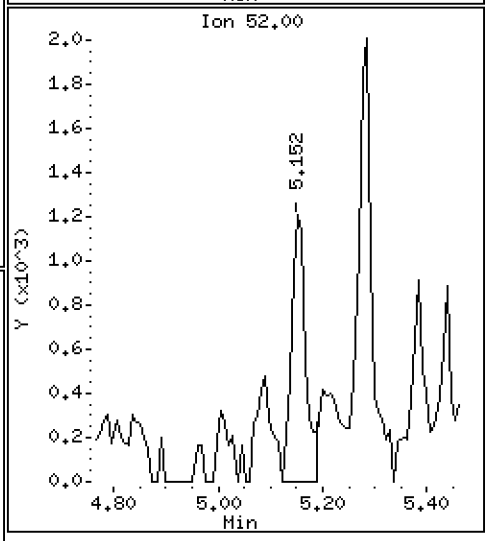
103 Pyridine

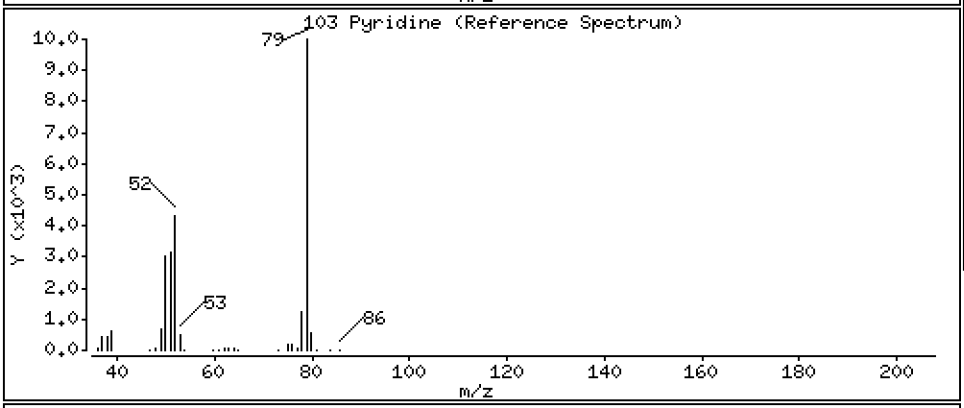
Concentration: 1.827 ug/mL

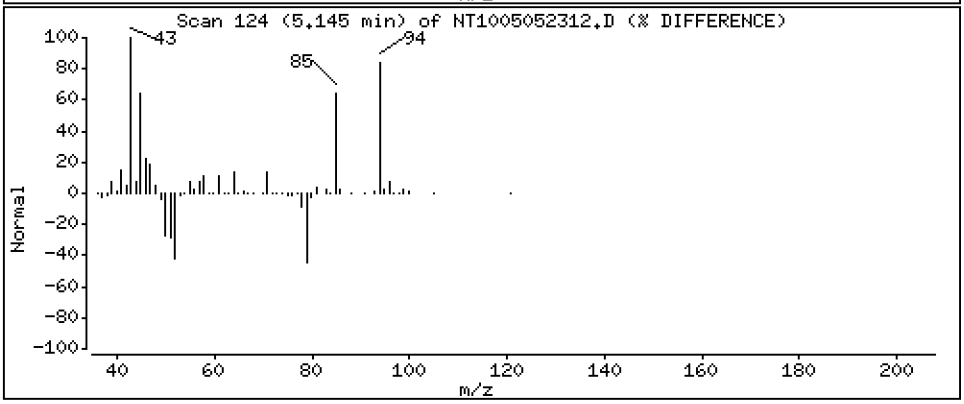












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

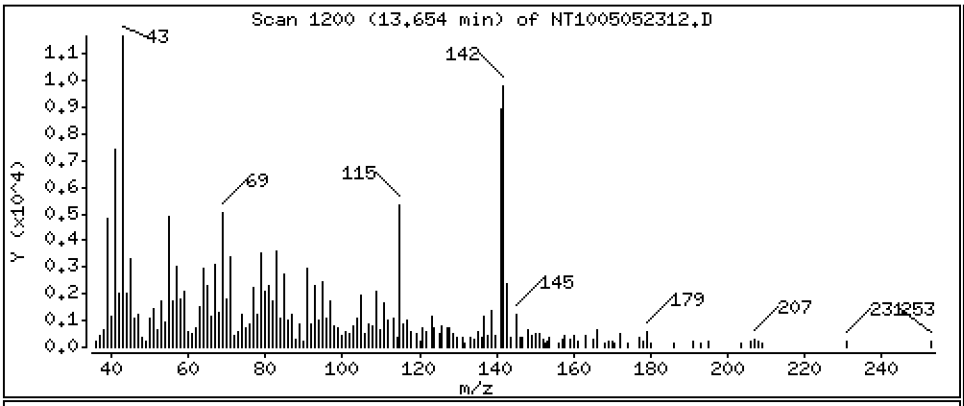
Operator: VTS

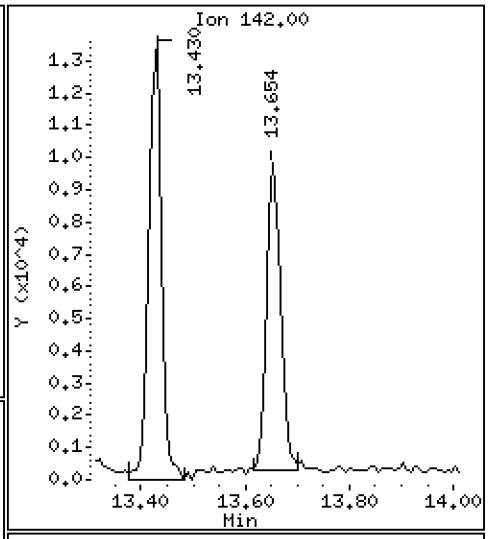
Column phase: ZB-5msi

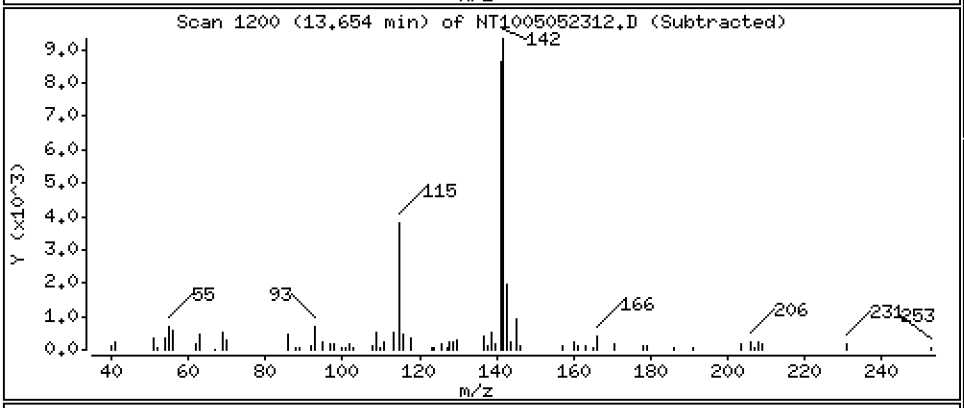
Column diameter: 0.25

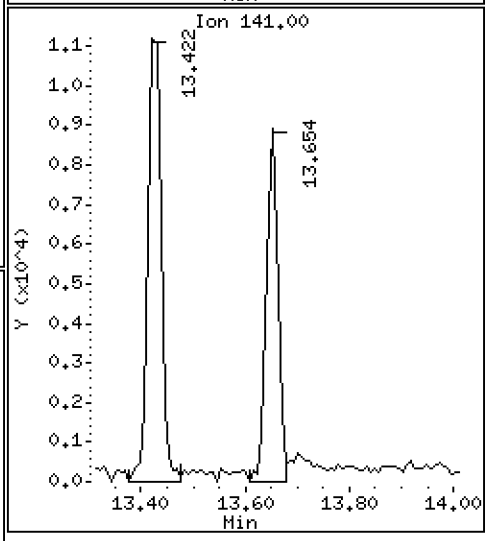
105 1-methylnaphthalene

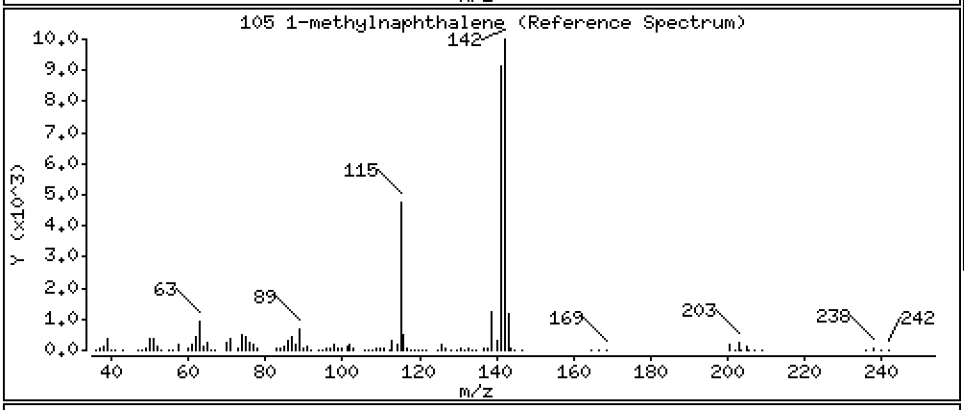
Concentration: 0.1386 ug/mL

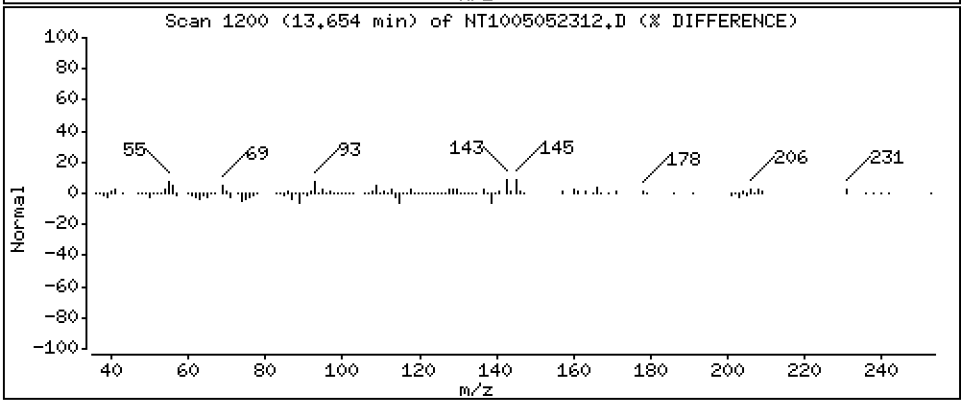












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

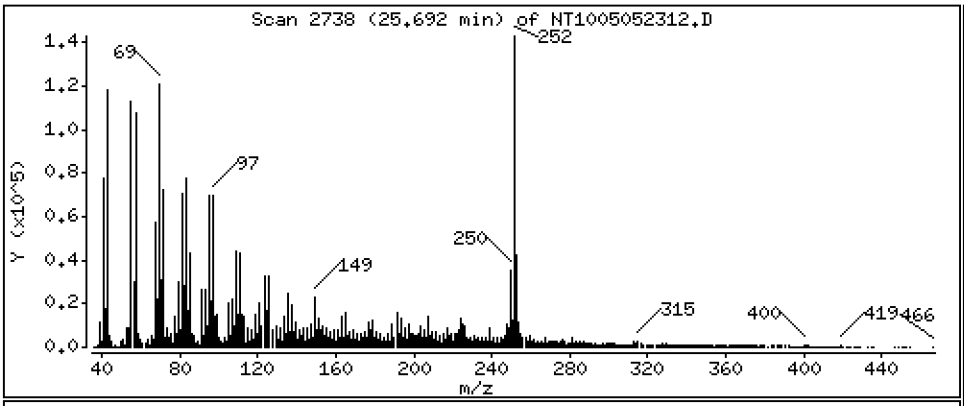
Operator: VTS

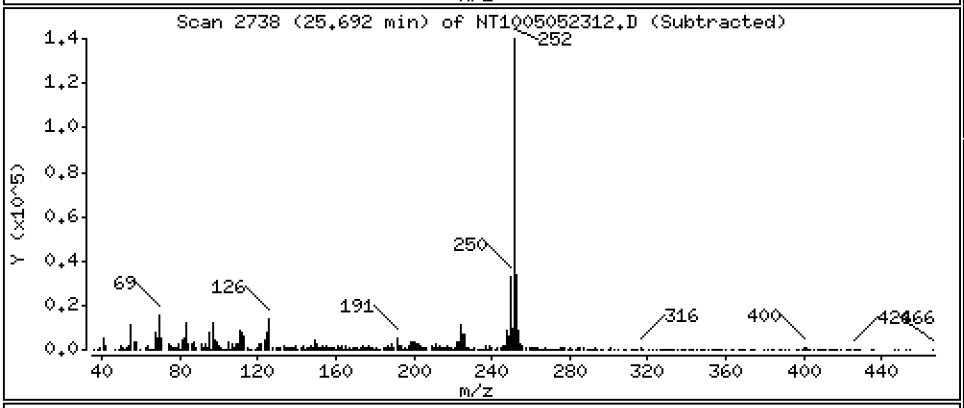
Column phase: ZB-5msi

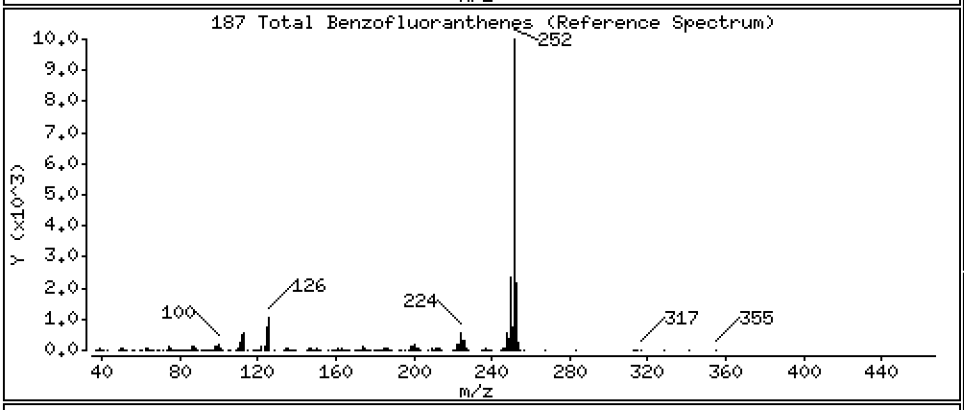
Column diameter: 0.25

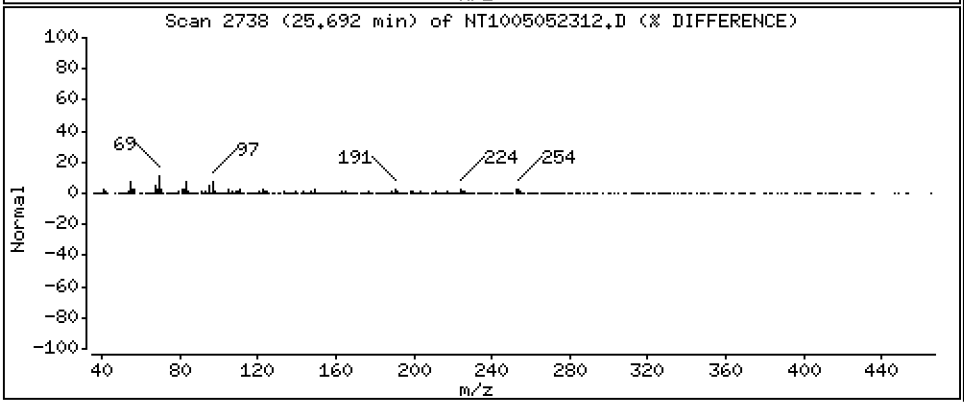
187 Total Benzofluoranthenes

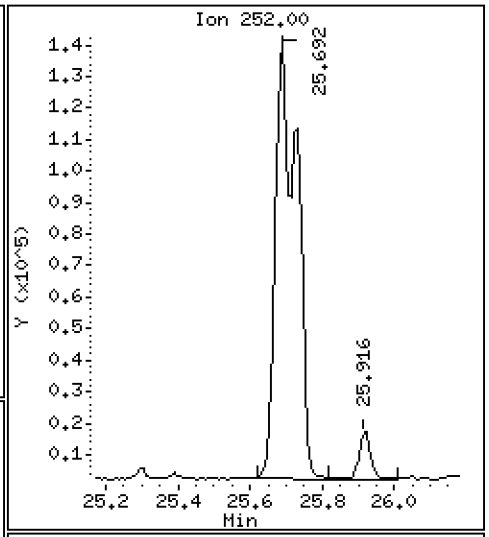
Concentration: 3.774 ug/mL

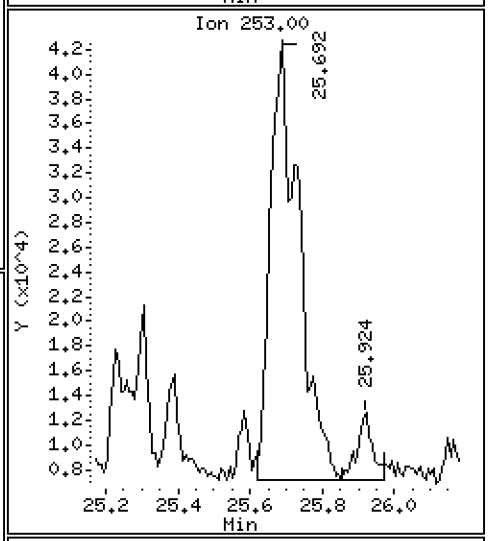


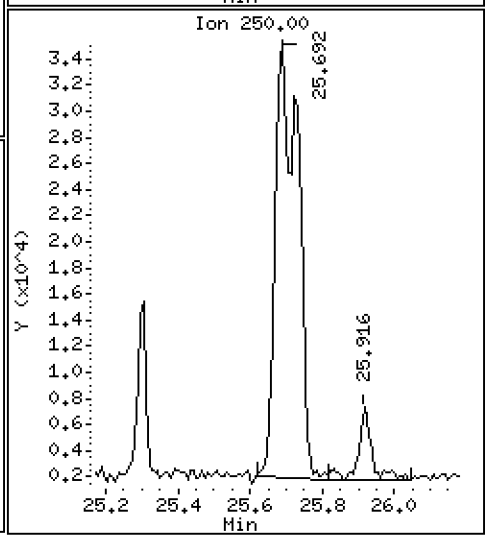












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Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

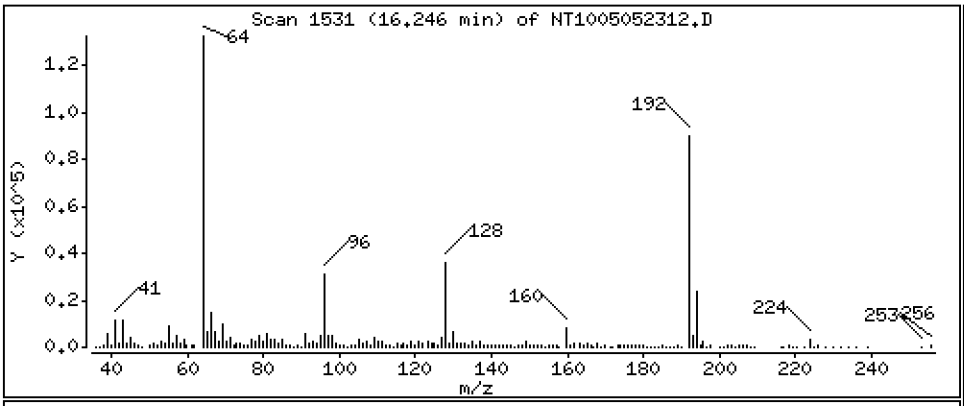
Operator: VTS

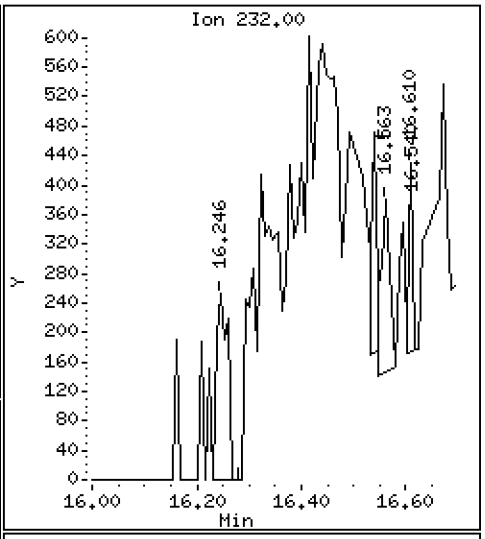
Column phase: ZB-5msi

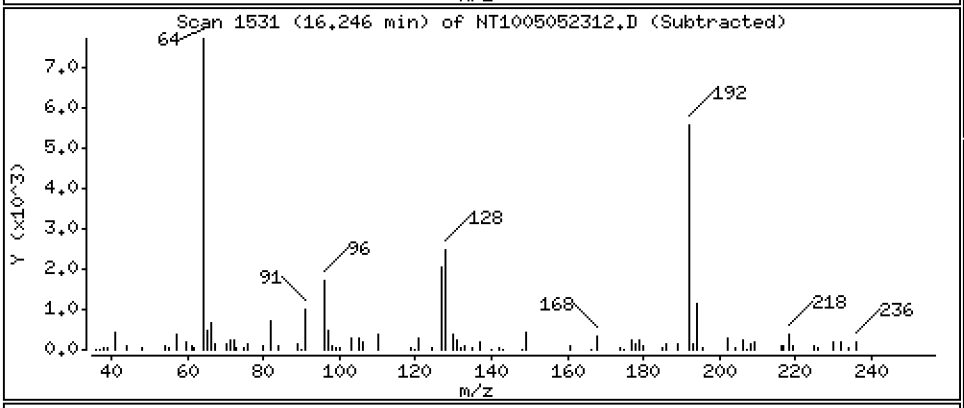
Column diameter: 0.25

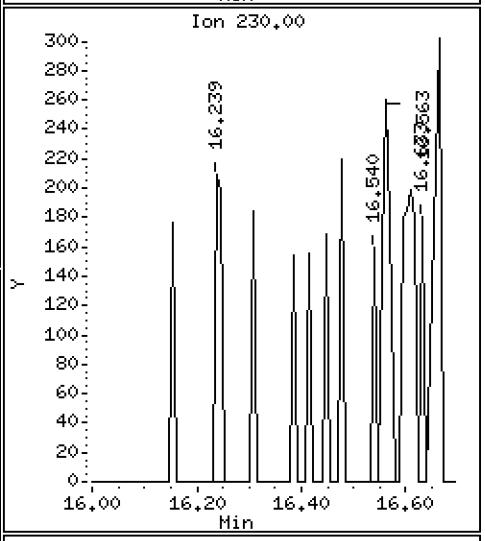
120 2,3,4,6-Tetrachlorophenol

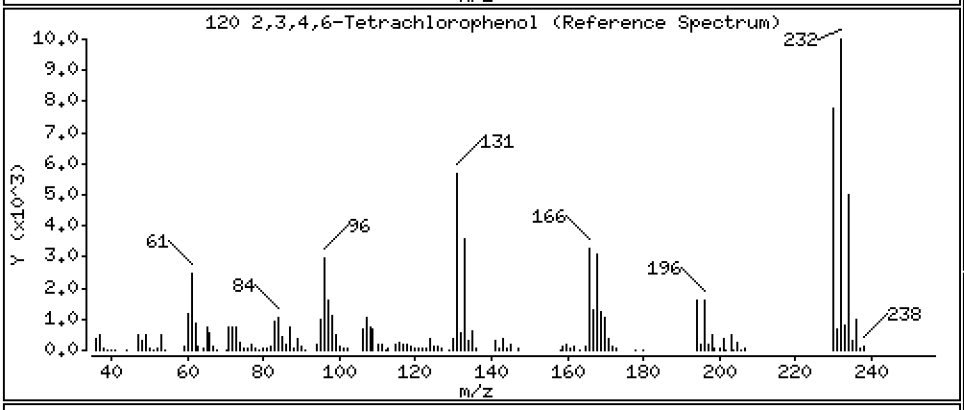
Concentration: 0.009003 ug/mL

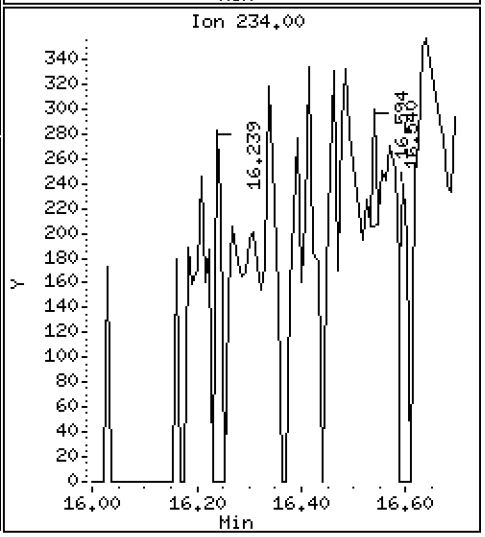


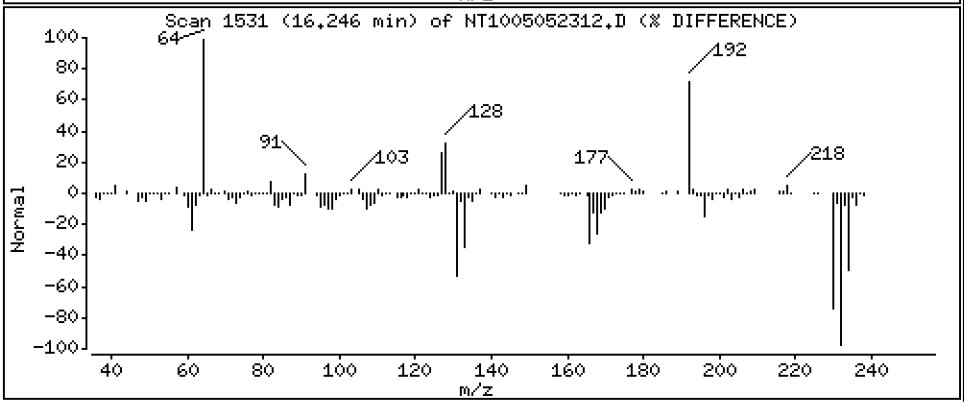












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052312.D
Lab Smp Id: 23D0136-03
Inj Date : 05-MAY-2023 17:54
Operator : VTS Inst ID: nt10.i
Smp Info : 23D0136-03
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.246	7.253	(1.000)	279389	5.54598	5.546
$	2 Phenol-d5	99	8.829	8.830	(1.000)	355982	5.86116	5.861
	3 Phenol	94	8.845	8.853	(1.000)	71117	1.09511	1.095
$	5 2-Chlorophenol-d4	132	9.131	9.139	(1.000)	373121	6.41046	6.410
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.502	(1.000)	166481	4.00000	(M)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.867	(1.000)	157720	3.67308	3.673
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.758	9.766	(1.000)	83861	2.68663	2.687
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	10.240	10.240	(1.000)	43947	0.76857	0.7686
$	18 Nitrobenzene-d5	82	10.596	10.604	(0.884)	300690	4.21414	4.214
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	638506	4.00000	
	28 Naphthalene	128	12.029	12.037	(1.003)	38757	0.21756	0.2176
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.429	13.437	(1.120)	21883	0.16430	0.1643
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	14.203	14.211	(0.909)	609588	4.11343	4.113
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	15.101	15.109	(0.967)	9470	0.07215	0.07215
40	Acenaphthylene	152	15.302	15.310	(0.980)	25836	0.14181	0.1418
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	15.620	15.628	(1.000)	342307	4.00000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	15.681	15.689	(1.004)	18376	0.15859	0.1586
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	16.006	16.014	(1.025)	34358	0.20336	0.2034
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	Compound Not Detected.					
50	Diethylphthalate	149	16.555	16.571	(1.060)	25264	0.18540	0.1854
49	Fluorene	166	16.725	16.733	(1.071)	33095	0.23746	0.2375
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52	4-Nitroaniline	138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	116516	6.83667	6.837
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.671	18.679	(1.000)	618530	4.00000	
60	Phenanthrene	178	18.718	18.726	(1.002)	167056	0.92047	0.9205
61	Anthracene	178	18.810	18.818	(1.007)	101402	0.60462	0.6046
62	Carbazole	167	19.135	19.136	(1.025)	24382	0.16424	0.1642
63	Di-n-butylphthalate	149	19.909	19.902	(1.066)	21782	0.09810	0.09810
64	Fluoranthene	202	21.101	21.085	(0.890)	522927	2.57783	2.578
65	Pyrene	202	21.518	21.511	(0.908)	476018	2.34905	2.349
$ 66	Terphenyl-d14	244	21.789	21.782	(0.919)	618548	3.85948	3.859
67	Butylbenzylphthalate	149	22.695	22.695	(0.958)	19740	0.20781	0.2078
68	Benzo(a)anthracene	228	23.671	23.663	(0.999)	242965	1.35079	1.351
* 69	Chrysene-d12	240	23.702	23.694	(1.000)	454352	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.740	23.741	(1.002)	375641	2.33333	2.333
72	bis(2-Ethylhexyl)phthalate	149	23.709	23.702	(0.958)	252607	1.96424	1.964
* 134	Di-n-octylphthalate-d4	153	24.739	24.739	(1.000)	892773	4.00000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	25.691	25.676	(0.968)	382213	2.38515	2.385
75	Benzo(k)fluoranthene	252	25.730	25.730	(0.969)	242115	1.52259	1.523(M)
76	Benzo(a)pyrene	252	26.419	26.404	(0.995)	182086	1.35754	1.358
* 77	Perylene-d12	264	26.551	26.528	(1.000)	390090	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.537	29.498	(1.112)	111011	0.68894	0.6889
79	Dibenzo(a,h)anthracene	278	29.545	29.514	(1.113)	32754	0.24272	0.2427
80	Benzo(g,h,i)perylene	276	30.423	30.376	(1.146)	111832	0.87074	0.8707
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	8.914	8.953	(1.000)	9407	0.17576	0.1758
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	5.144	5.114	(1.000)	78384	1.82681	1.827
105	1-methylnaphthalene	142	13.654	13.662	(1.139)	16928	0.13863	0.1386
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.691	25.676	(0.968)	582151	3.77406	3.774
120 2,3,4,6-Tetrachlorophenol	232	16.246	16.346	(1.040)	396	0.00900	0.009003

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052312.D
Lab Smp Id: 23D0136-03
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	166481	-7.23
27 Naphthalene-d8	621628	310814	1243256	638506	2.72
42 Acenaphthene-d10	353112	176556	706224	342307	-3.06
59 Phenanthrene-d10	694933	347467	1389866	618530	-10.99
69 Chrysene-d12	553967	276984	1107934	454352	-17.98
134 Di-n-octylphthala	895601	447801	1791202	892773	-0.32
77 Perylene-d12	482573	241287	965146	390090	-19.16

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.07
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.70	0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.74	-0.00
77 Perylene-d12	26.53	26.03	27.03	26.55	0.09

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

REVIEW SUMMARY FOR FILE - NT1005052312.D

Lab ID: 23D0136-03
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 17:54

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.040	1.046	-0.0059	2,3,4,6-Tetrachlorophenol

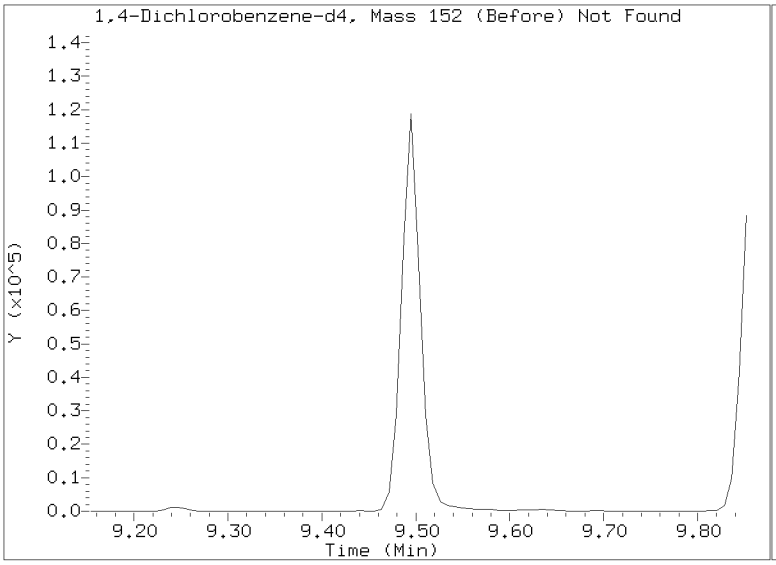
RRT check based on Ccal File: NT1005052303.D

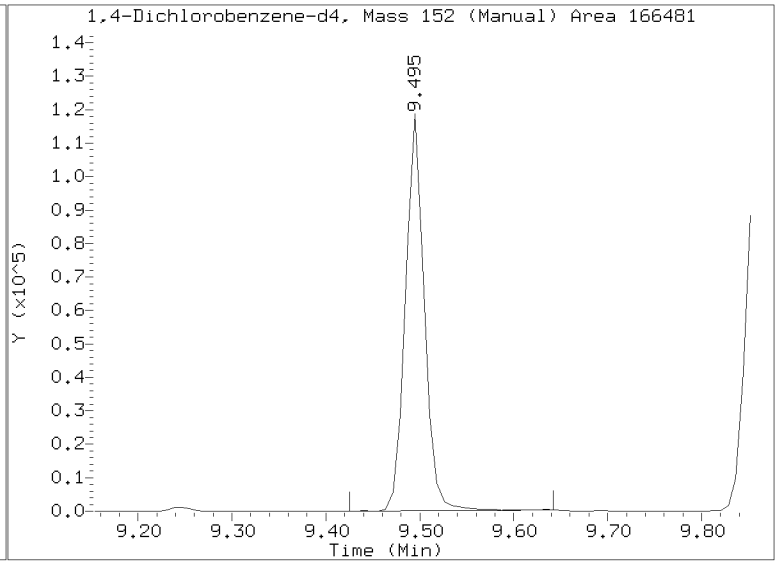
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

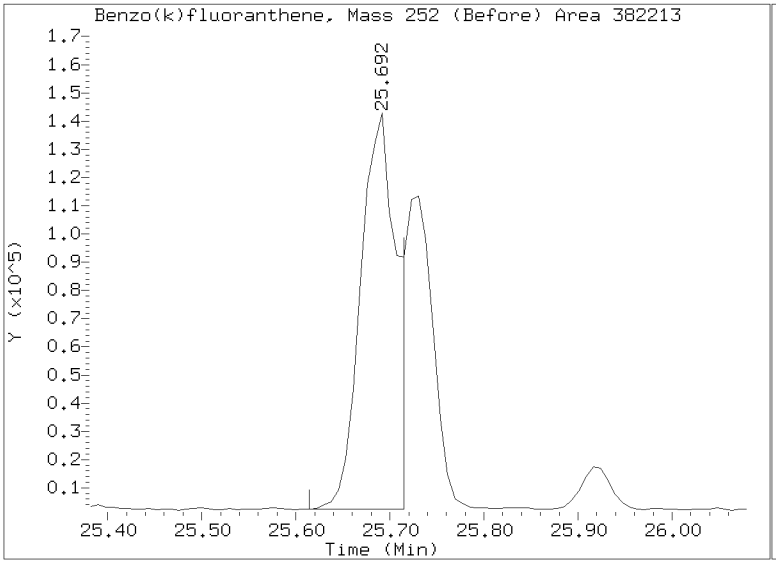
* Only compounds listed in the work order have been verified by the analyst *

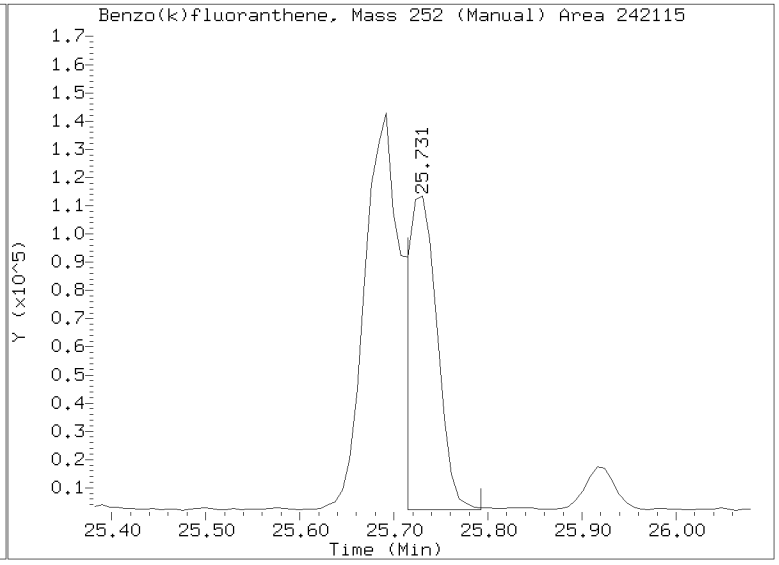
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052312.D
Injection Date: 05-MAY-2023 17:54
Lab ID:23D0136-03 Client ID:
Report Date: 05/08/2023 10:15









APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Batch: BLD0329 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	NT1005052311.D	04/18/23 11:16	
LDW23-SS1803	23D0136-03	NT1005052312.D	04/18/23 11:16	
Blank	BLD0329-BLK1	NT1005052307.D	04/18/23 11:16	
LCS	BLD0329-BS1	NT1005052308.D	04/18/23 11:16	
LCS Dup	BLD0329-BSD1	NT1005052309.D	04/18/23 11:16	
LDW23-SS1803	BLD0329-MS1	NT1005052313.D	04/18/23 11:16	
LDW23-SS1803	BLD0329-MSD1	NT1005052314.D	04/18/23 11:16	
Reference	BLD0329-SRM1	NT1005052310.D	04/18/23 11:16	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0329

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid Date Prepared: 04/18/23 Balance ID: B146462614 Set Up By: CRD 4/18/23

WO Comments
23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23D0136-01 A	49.3	(20.27) 20.29	(1:1)	1mL	1	0.5	
23D0136-03 A	44.3	(22.57) 22.58	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0329-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLD0329-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLD0329-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLD0329-MS1	44.3	(22.57) 22.57	(1:1)	1mL	1	0.5	Use 23D0136-03
BLD0329-MSD1	44.3	(22.57) 22.57	(1:1)	1mL	1	0.5	Use 23D0136-03
BLD0329-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1	0.5	Use K003477

+1g DI WATER

04/18/23 — Client ID verified By — Date

AA — 5-4-23 — Preparation Reviewed By — Date

04/18/23 11:16 — Extraction Date and Time

Printed: 4/13/2023 9:28:30AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0329

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

Prep Steps	Reagents Used		Surrogates & Spike Standards Used

Microwave

1 2 3

Analyst/Date: 4/18/23

Station/Reagent	Standard ID
Microwave Analyst: CG Date: 4/18/23	
Anhydrous Sodium Sulfate	L004657
1:1 Methylene Chloride/Acetone	L004244
Methylene Chloride	L004621
Pre-Deactivated Glass Wool	L001924

Pre-GPC KD
100°C
Exchange to Hexane
(add 10 mL to KD)

0 2 4 5 6

Analyst/Date: 4/24/23

Pre GPC KD Analyst: CL Date: 4/24/23	
~~Pre-Deactivated Glass Wool~~	
~~Anhydrous Sodium Sulfate~~	
Methylene Chloride	L002621
Hexane	L003500

TurboVap
Pre GPC

1 2 3 4 5

Analyst/Date: LJ 4/26/23

GPC Filter Prep Analyst: LJ Date: 4/26/23	
Methylene Chloride	K005941
GPC Filter	L001799

Post GPC KD
80-85°C

0 1 2 4 5 6

Analyst/Date: LJ 5/3/23

GPC Analyst: AA Date: 4-27-23	
Methylene Chloride	K005941
GPC Calibration File	C1C0059-GPC2

TurboVap

1 2 3 4 5

Analyst/Date: AA 5-4-23

Post GPC KD Analyst: LJ Date: 5/3/23	
Methylene Chloride	L004175

Water Wash

Analyst/Date: AA 5-4-23

Vialing Analyst: AA Date: 5-4-23	
Methylene Chloride	L004175

Type	Vial ID / Standard ID		Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A	L001153 Exp Date: 8/1/2023	50µL	CG	
Full List Spike (Freezer) 100µg/mL	7	L001812 (V) Exp Date: 8/4/2023	50µL	CG	
Base Spike 200µg/mL	56	L001812 (V) Exp L004778 Date: 8/20/2023	50µL	CG	
Acid Spike 100/200µg/mL	38	L001812 (V) Exp L004779 Date: 8/20/2023	50µL	CG	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0329

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch: BLD0329

Total Solids Batch: BLD0208 Work Order(s): 23D0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-04	CR 4/12/23
[ ] Standing Water Decanted (Not shared)=	
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 4/12/23
[X] Multiple Jars Y / (N)	CR 4/12/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0051	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	BLD0329-BLK1	NT1005052307.D	05/04/2023	
Reference	BLD0329-SRM1	NT1005052310.D	05/04/2023	
Matrix Spike Dup	BLD0329-MSD1	NT1005052314.D	05/04/2023	
Matrix Spike	BLD0329-MS1	NT1005052313.D	05/04/2023	
LCS Dup	BLD0329-BSD1	NT1005052309.D	05/04/2023	
LCS	BLD0329-BS1	NT1005052308.D	05/04/2023	
LDW23-SS1803	23D0136-03	NT1005052312.D	05/04/2023	
LDW23-SS1804	23D0136-01	NT1005052311.D	05/04/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

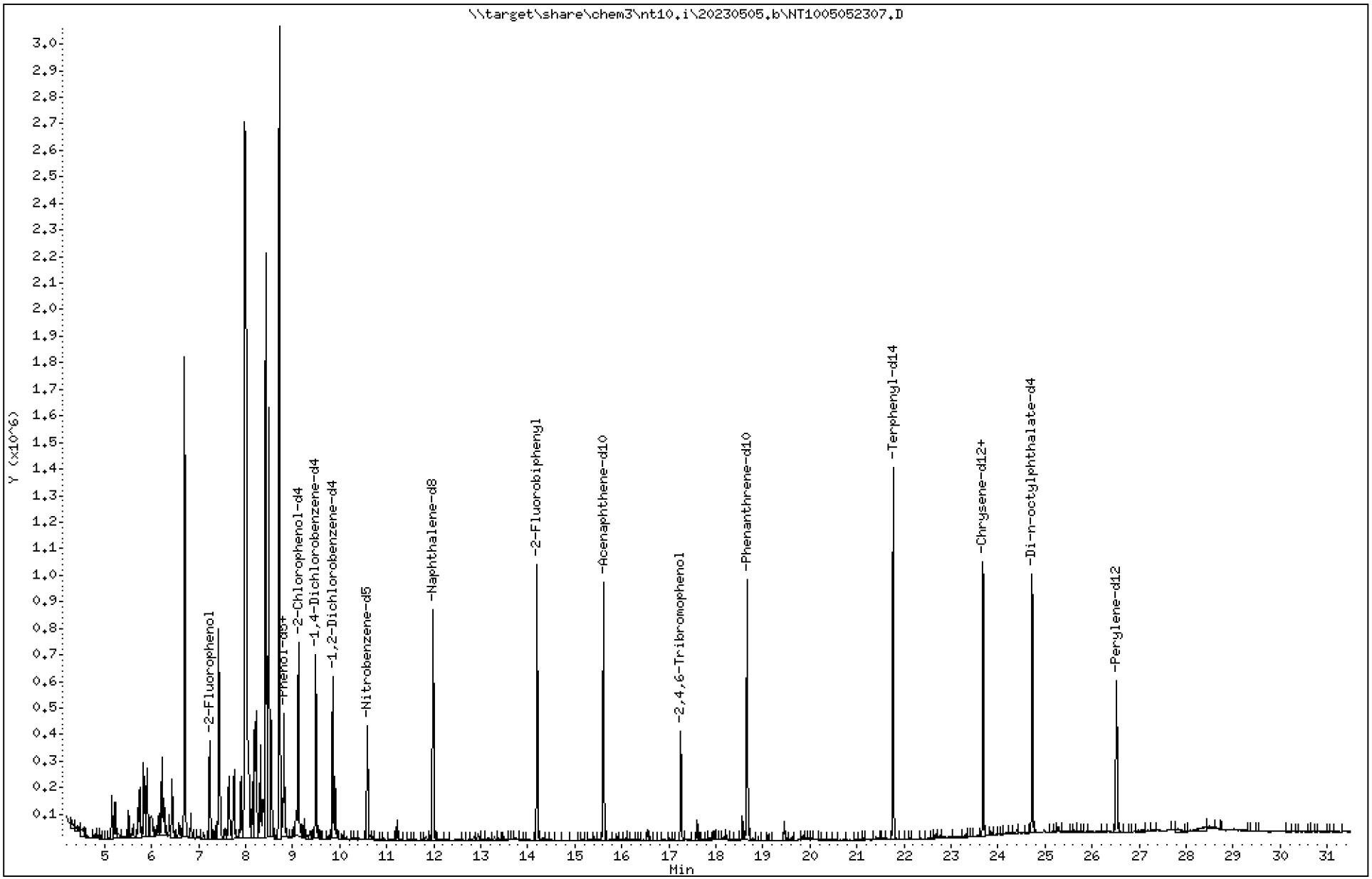
Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0329-BLK1	File ID:	NT1005052307.D
Sampled:	N/A	Prepared:	04/18/23 11:16	Analyzed:	05/05/23 14:40
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLD0329	Sequence:	SLE0101	Calibration:	GE00012
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

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

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	290	38.7	27 - 120	
Phenol-d5	750.00	333	44.4	29 - 120	
2-Chlorophenol-d4	750.00	432	57.6	31 - 120	
1,2-Dichlorobenzene-d4	500.00	317	63.5	32 - 120	
Nitrobenzene-d5	500.00	325	64.9	30 - 120	
2-Fluorobiphenyl	500.00	326	65.1	35 - 120	
2,4,6-Tribromophenol	750.00	311	41.5	24 - 134	
p-Terphenyl-d14	500.00	383	76.6	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052307.D
Date : 05-MAY-2023 14:40
Client ID:
Sample Info: BLD0329-BLK1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

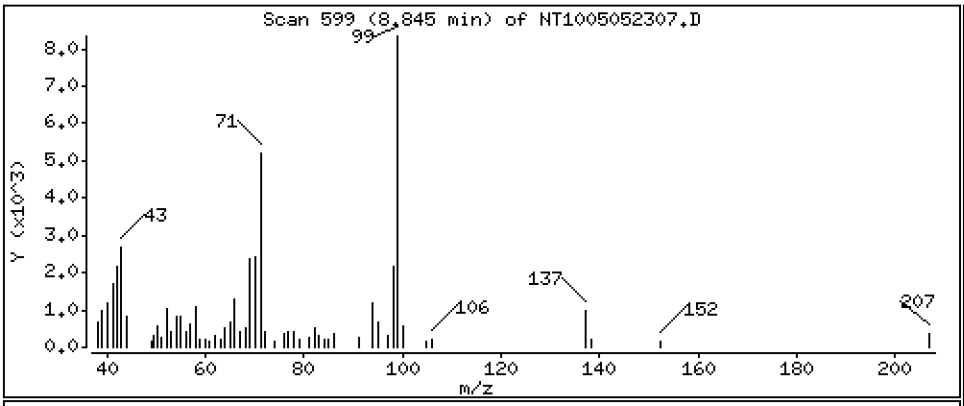
Operator: VTS

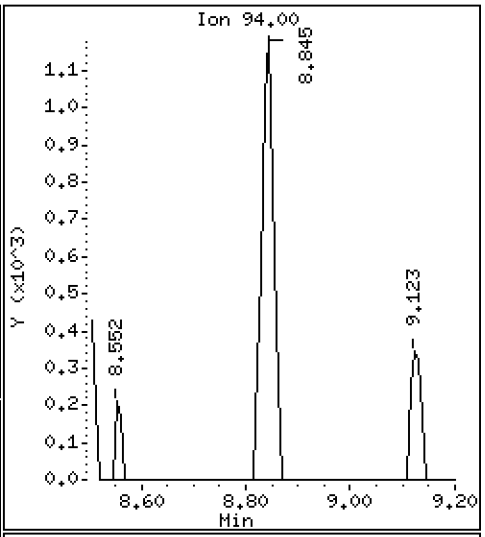
Column phase: ZB-5msi

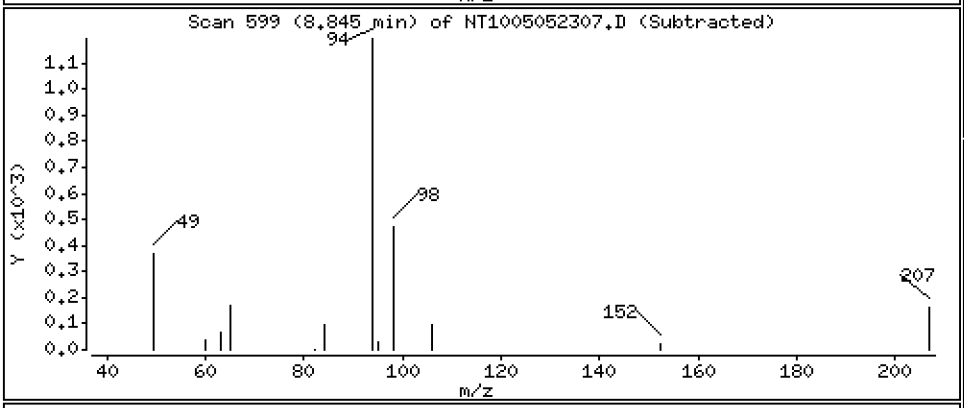
Column diameter: 0.25

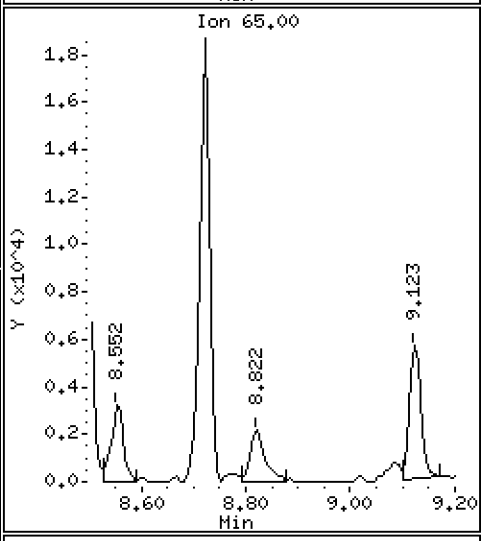
3 Phenol

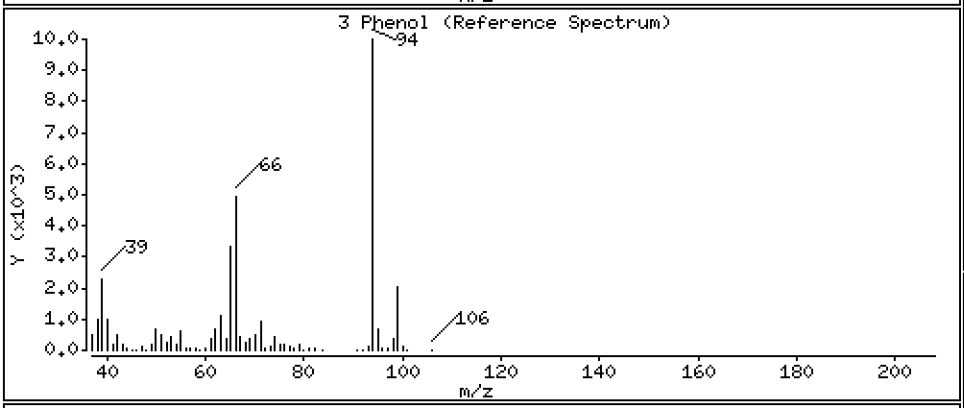
Concentration: 0.02808 ug/mL

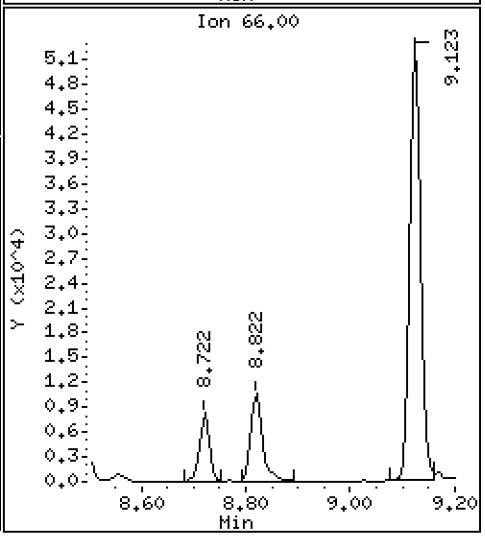


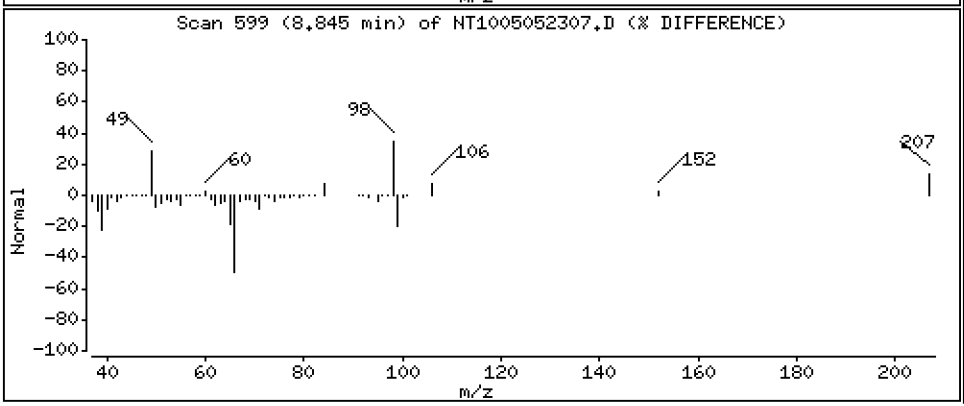












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

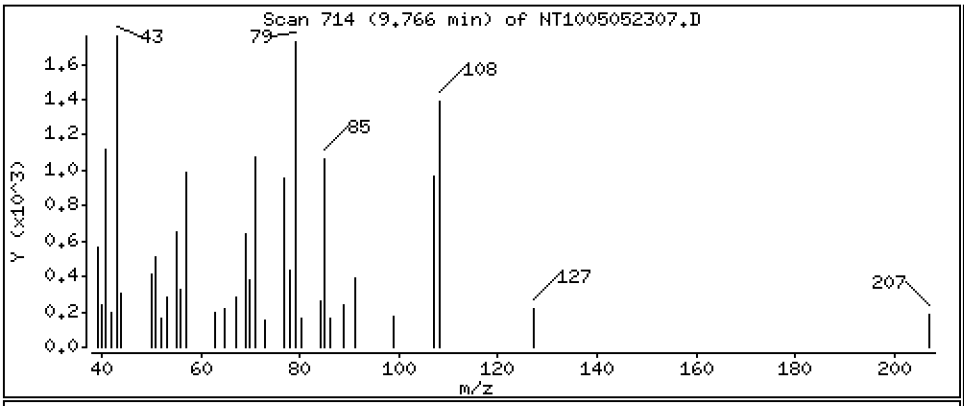
Operator: VTS

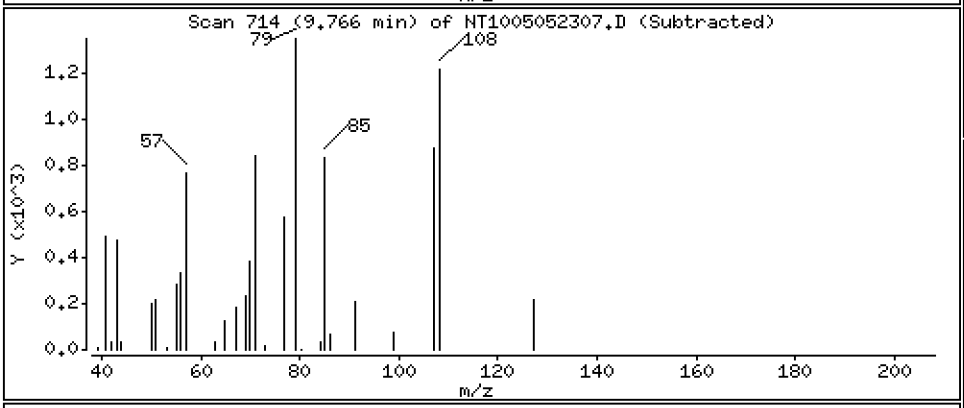
Column phase: ZB-5msi

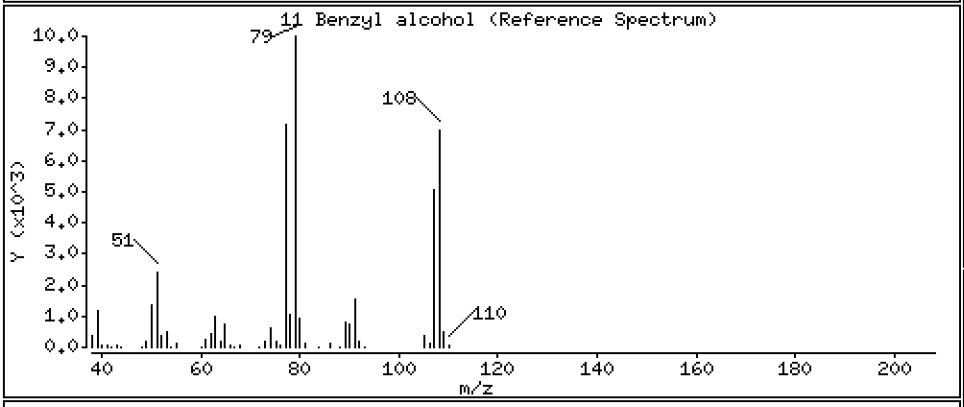
Column diameter: 0.25

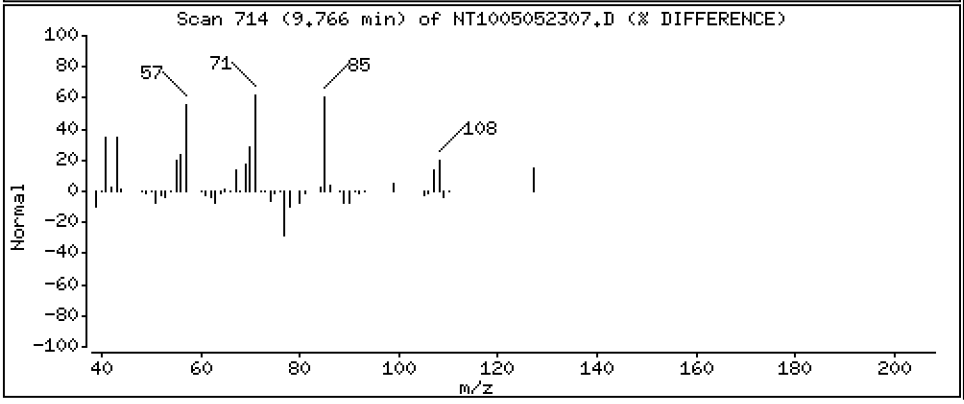
11 Benzyl alcohol

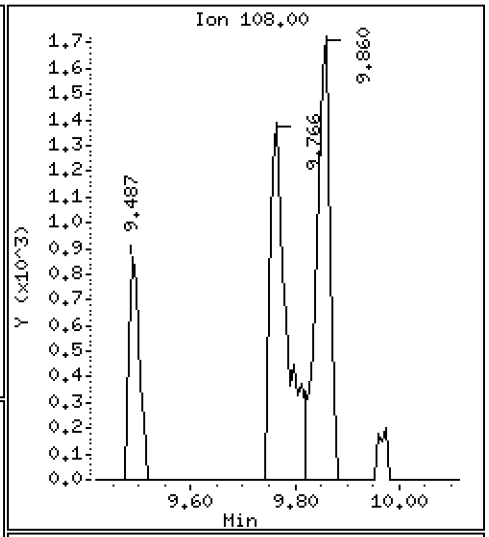
Concentration: 0.09858 ug/mL

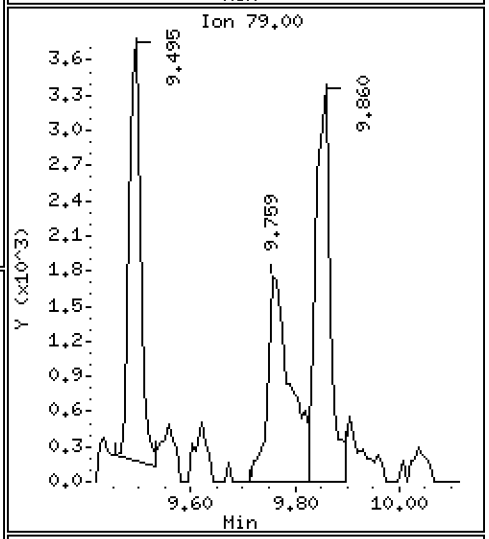


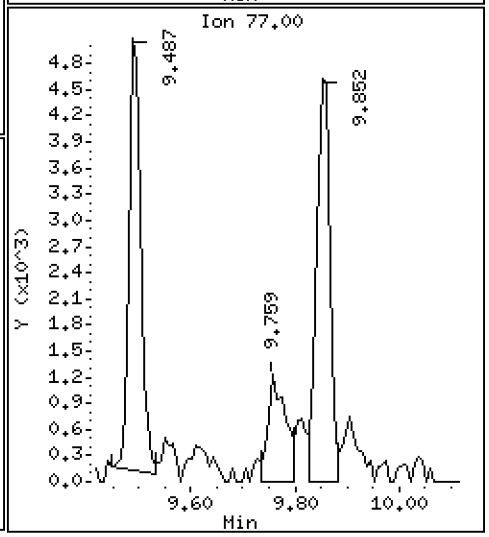












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

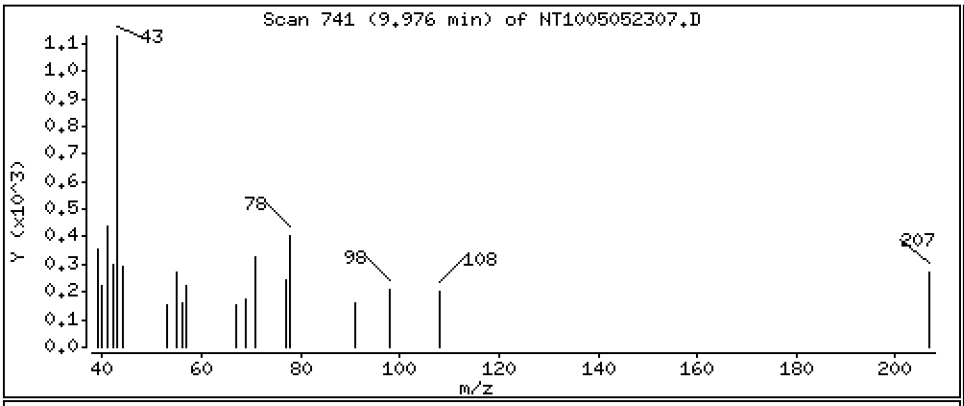
Operator: VTS

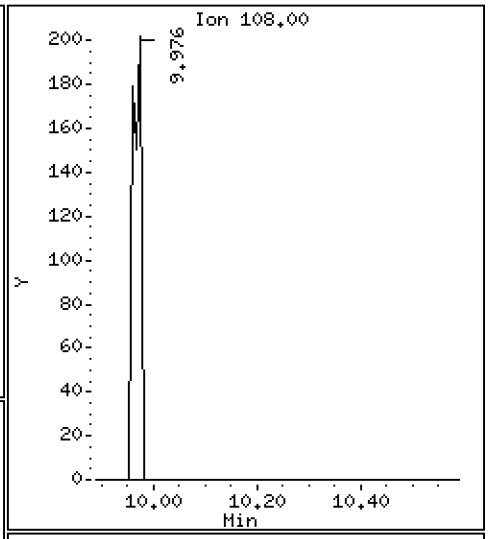
Column phase: ZB-5msi

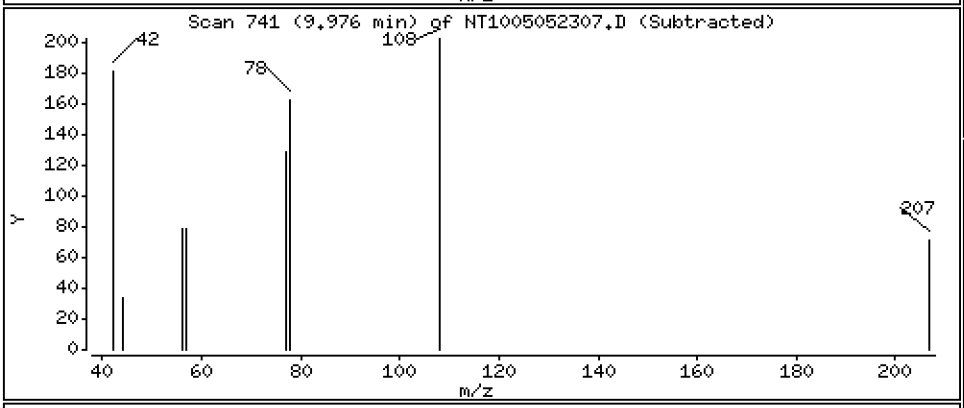
Column diameter: 0.25

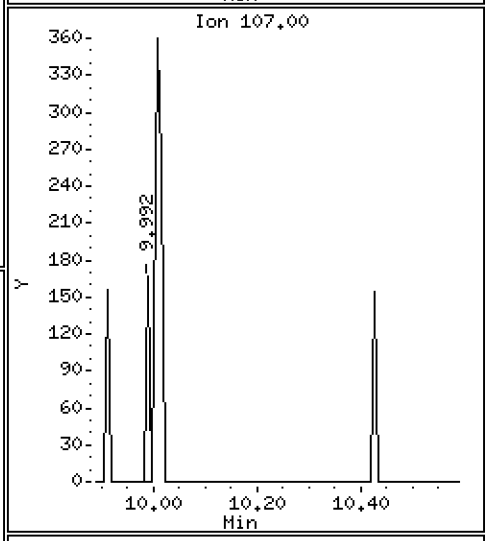
15 4-Methylphenol

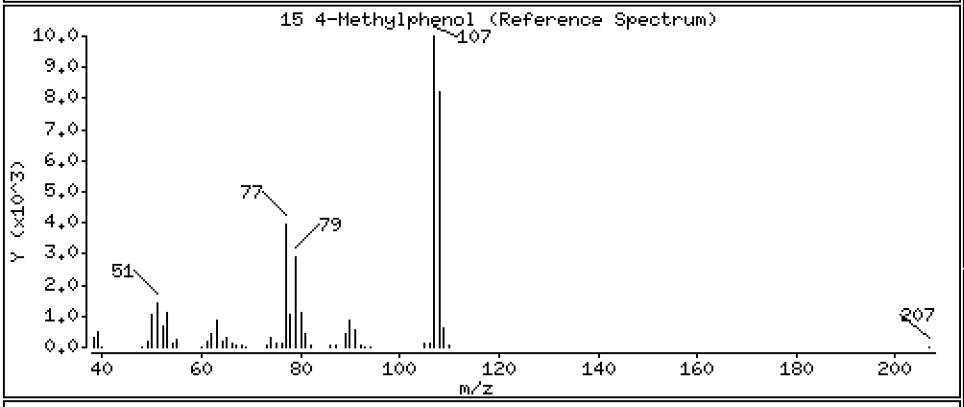
Concentration: 0.004325 ug/mL

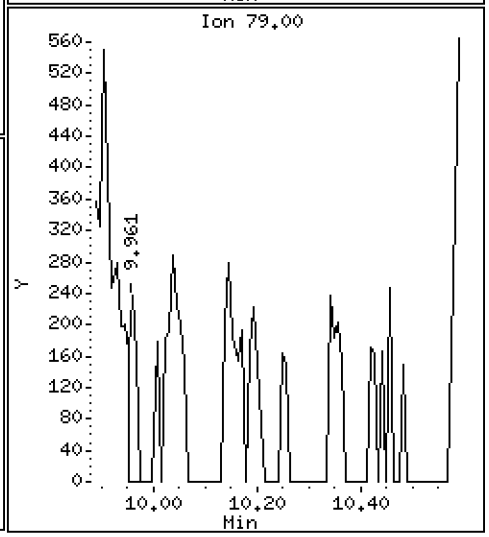


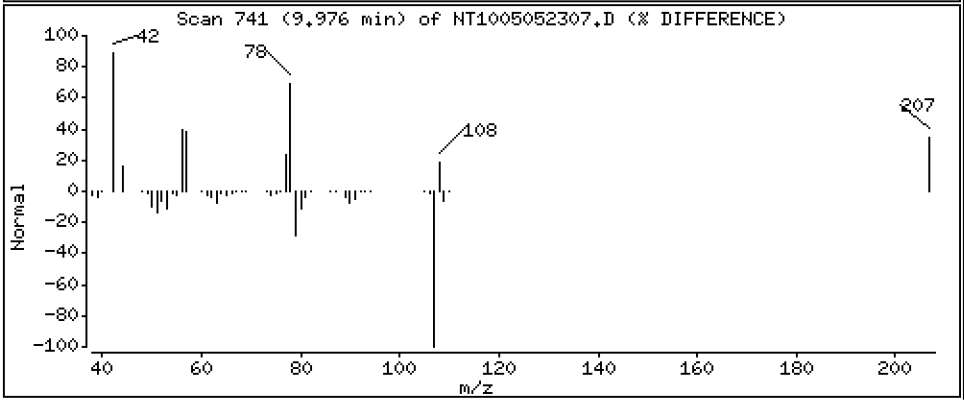












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

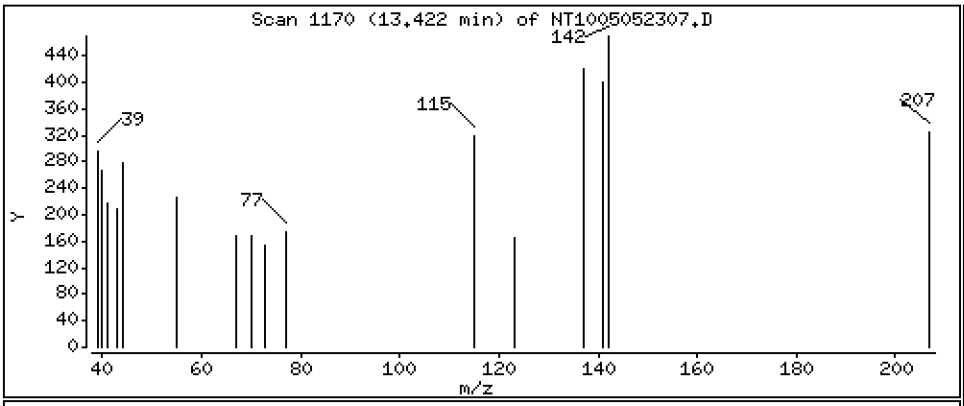
Operator: VTS

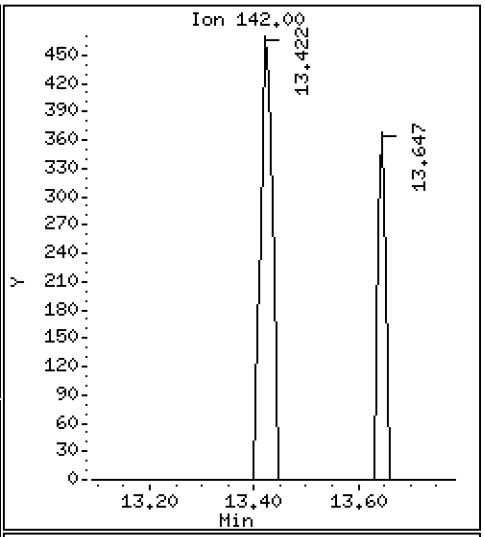
Column phase: ZB-5msi

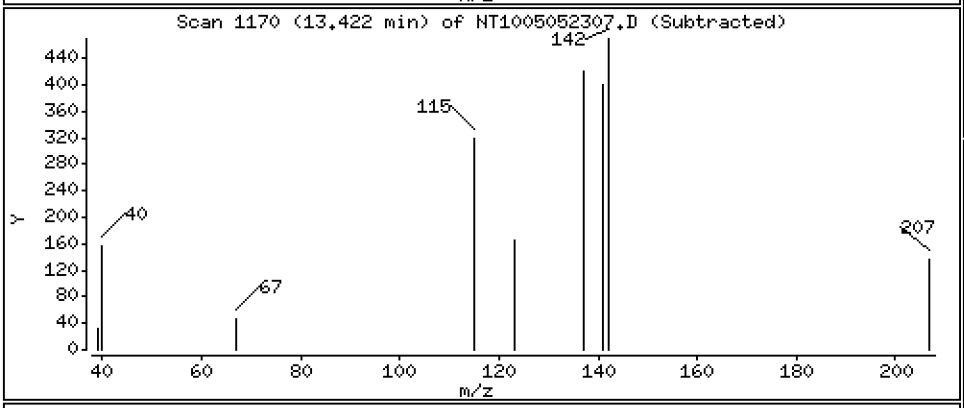
Column diameter: 0.25

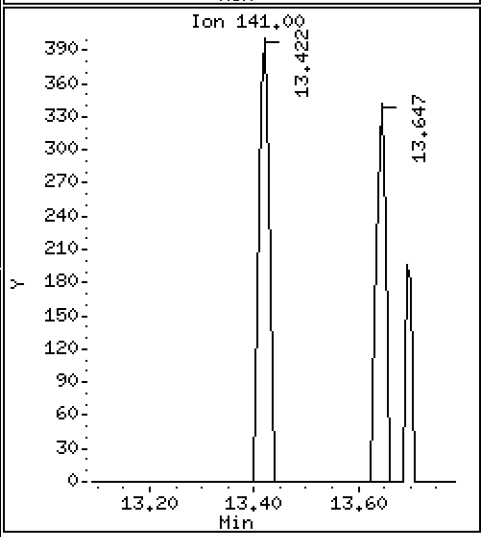
32 2-Methylnaphthalene

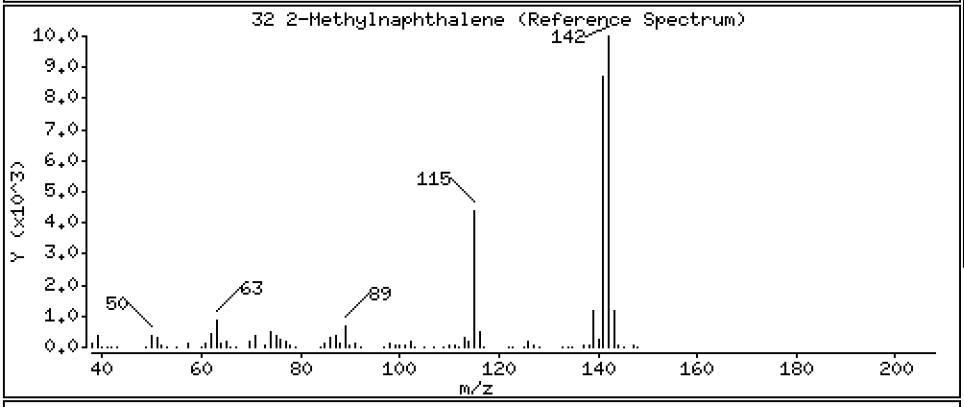
Concentration: 0.005467 ug/mL

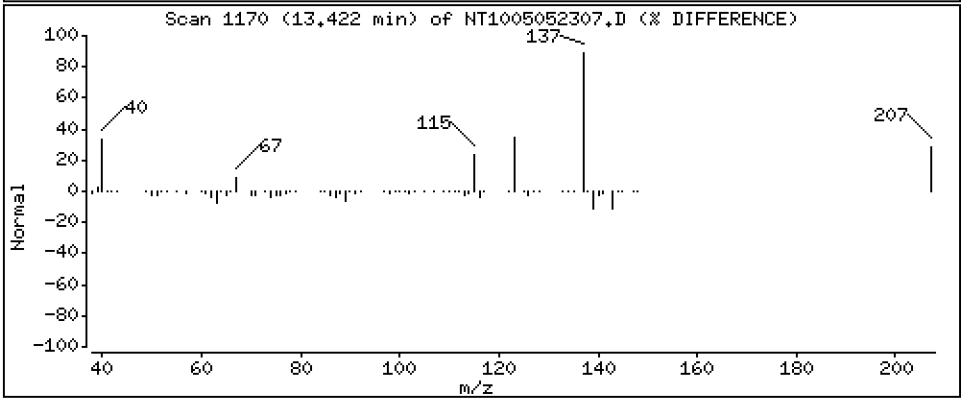












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

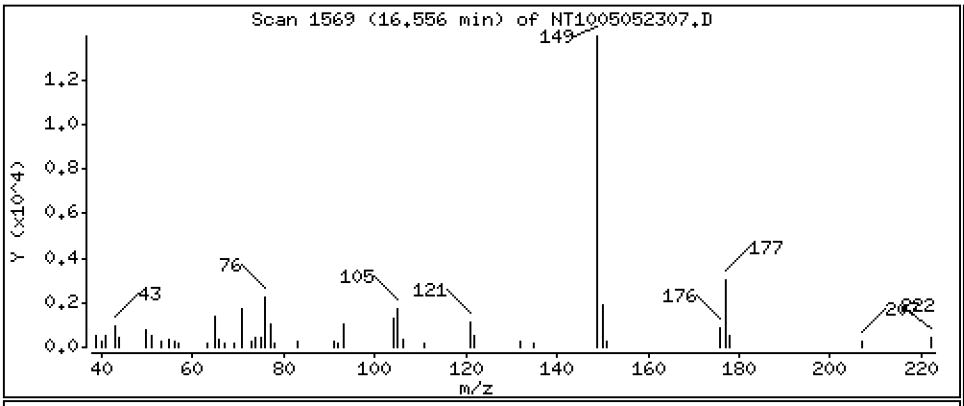
Operator: VTS

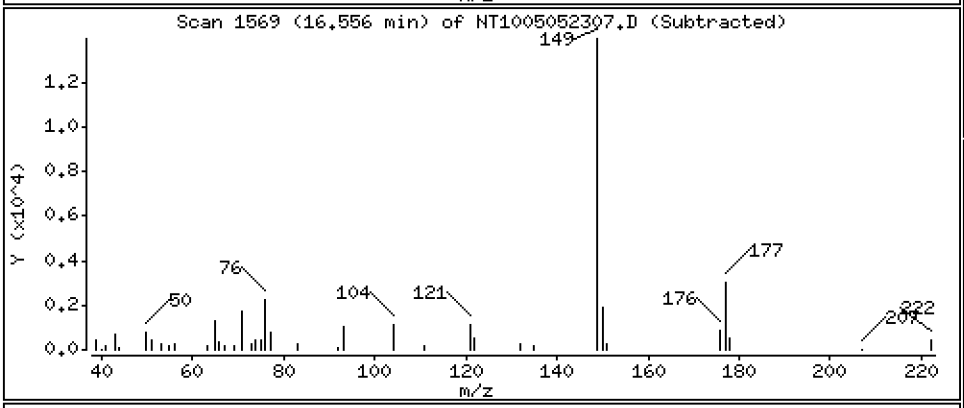
Column phase: ZB-5msi

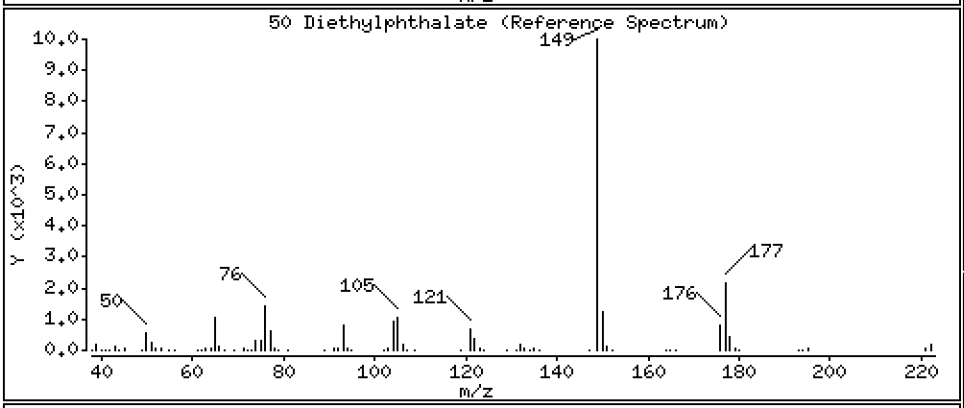
Column diameter: 0.25

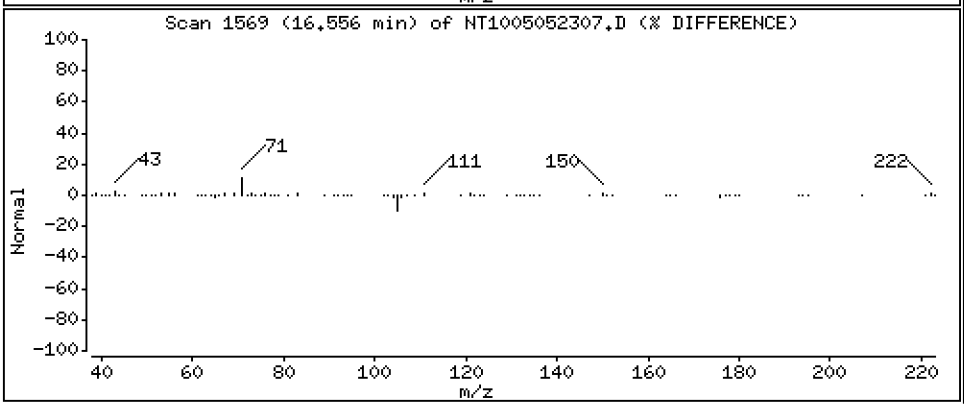
50 Diethylphthalate

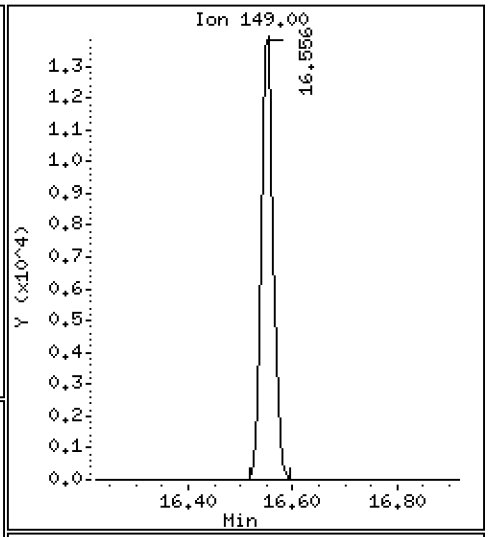
Concentration: 0.1654 ug/mL

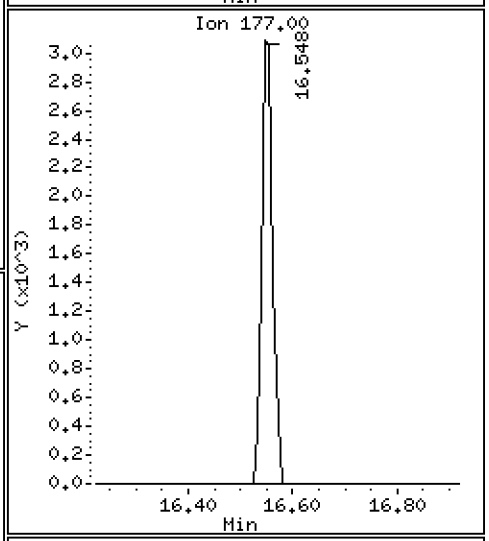


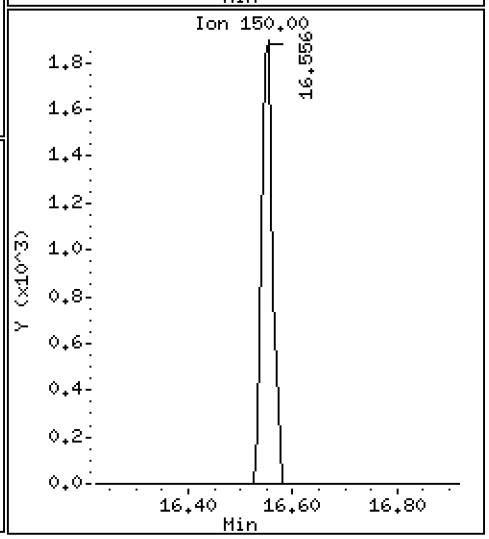












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

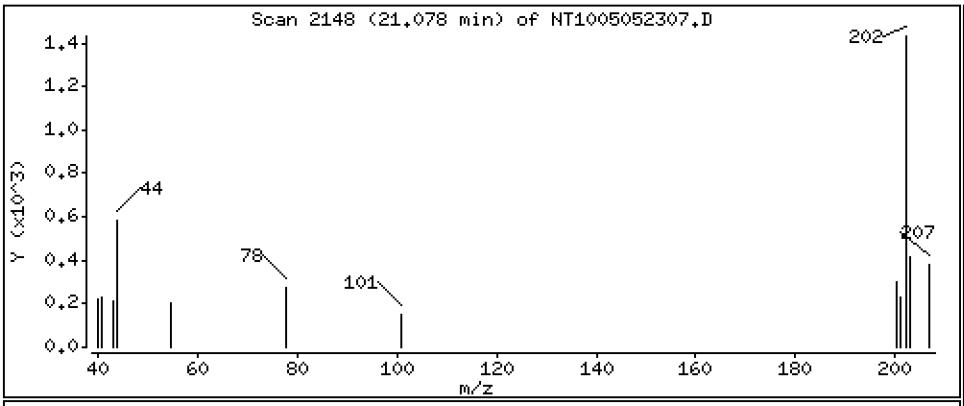
Operator: VTS

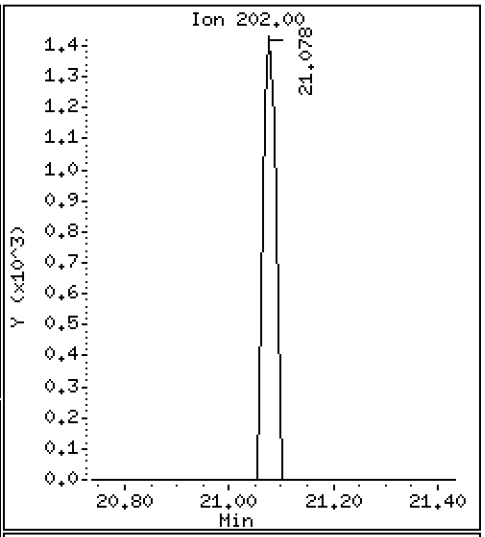
Column phase: ZB-5msi

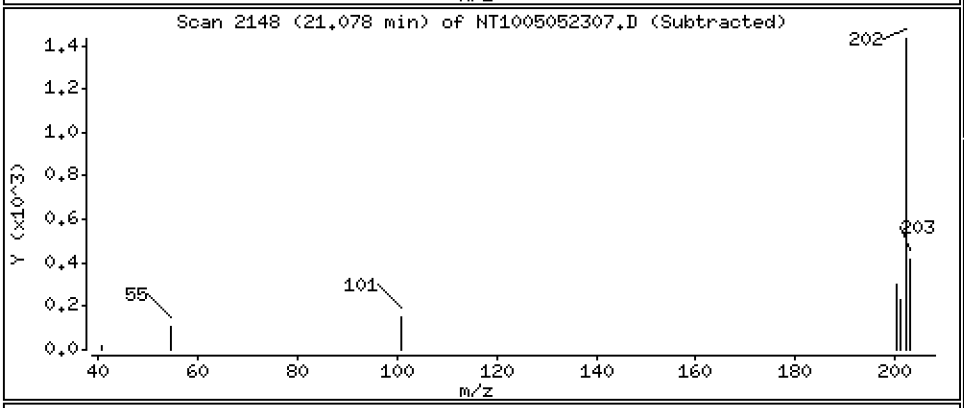
Column diameter: 0.25

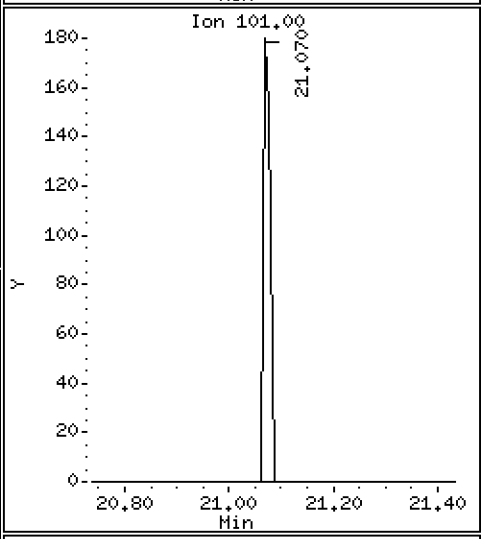
64 Fluoranthene

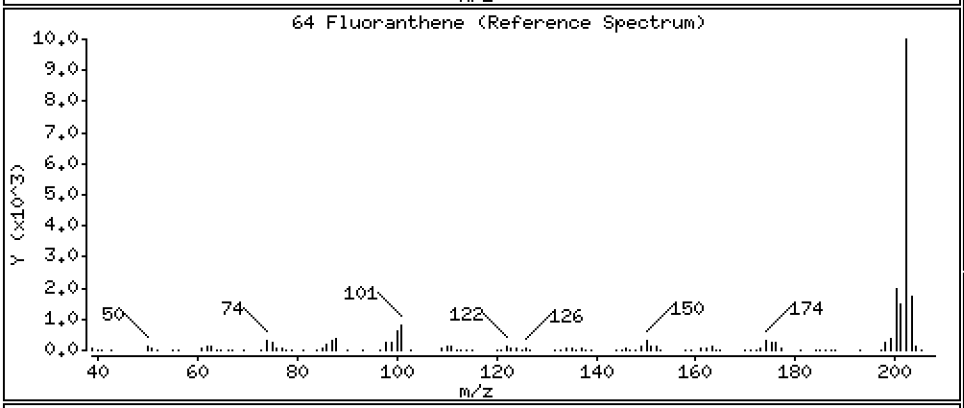
Concentration: 0.009968 ug/mL

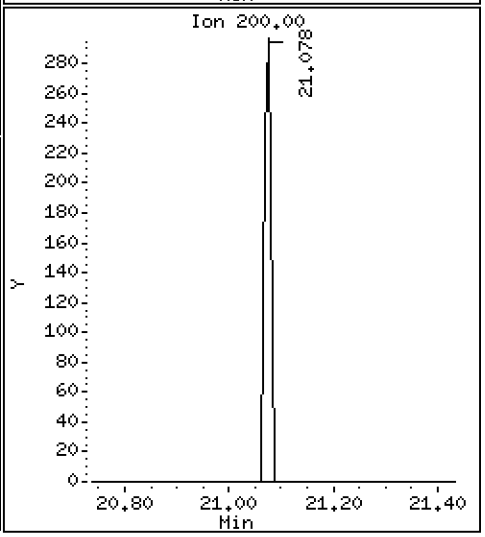


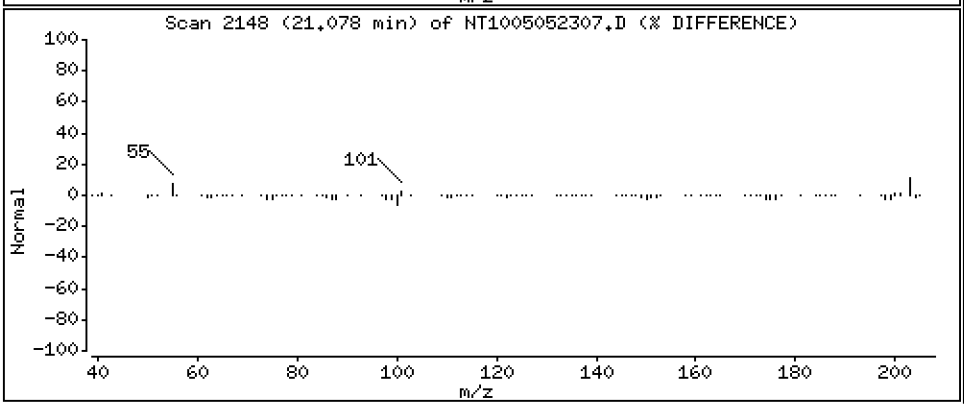












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052307.D

Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

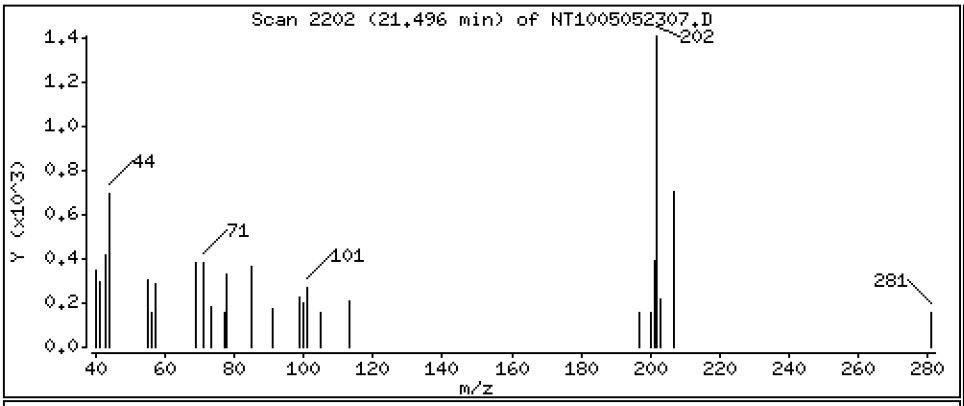
Operator: VTS

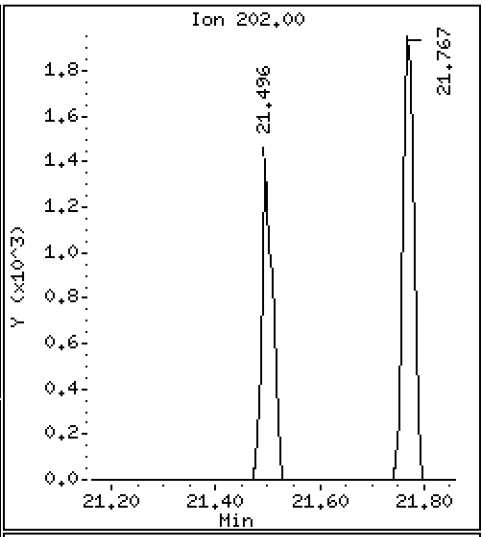
Column phase: ZB-5msi

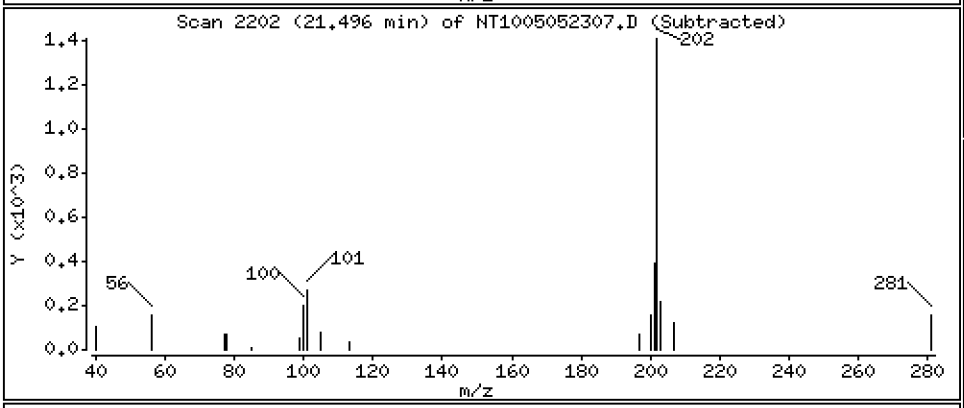
Column diameter: 0.25

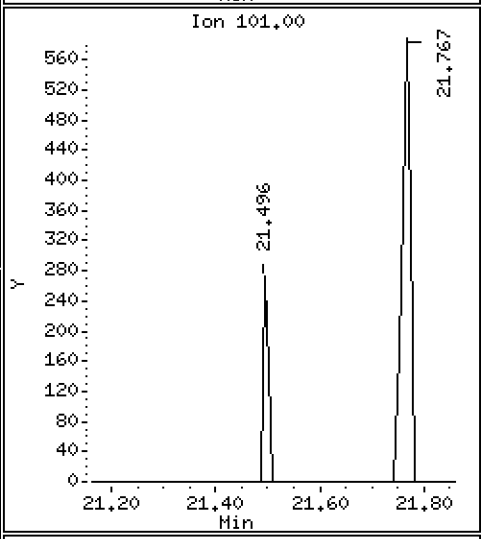
65 Pyrene

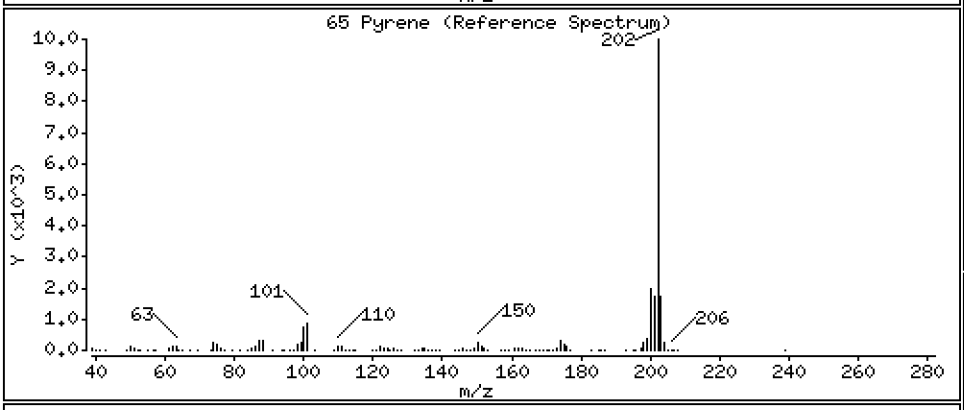
Concentration: 0.008680 ug/mL

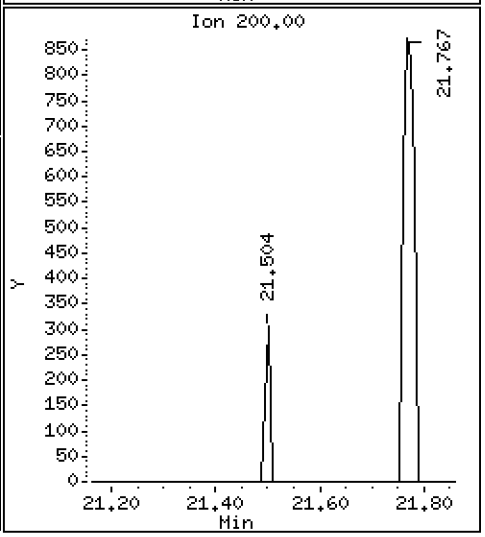


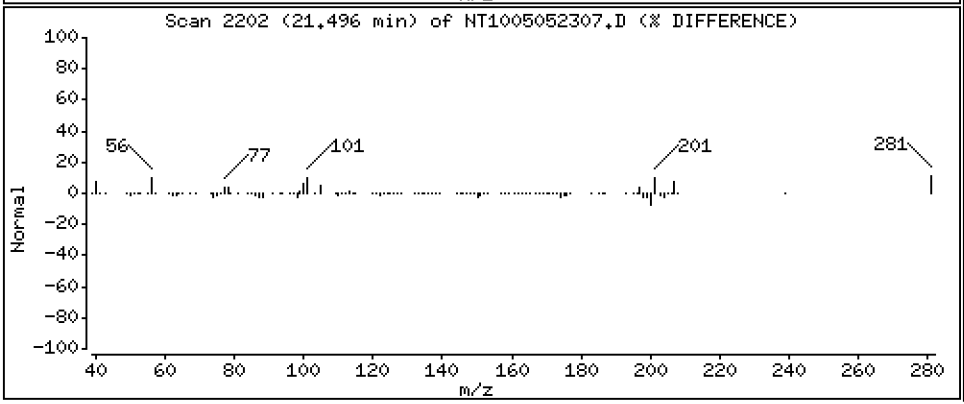












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052307.D

Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK1

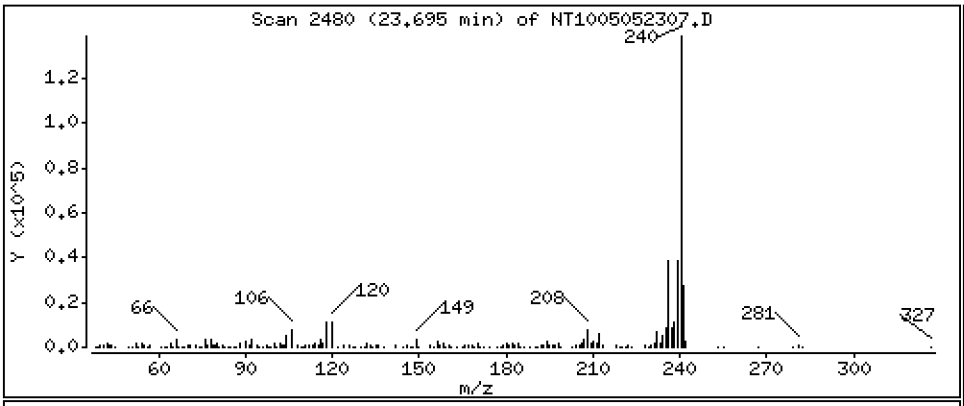
Operator: VTS

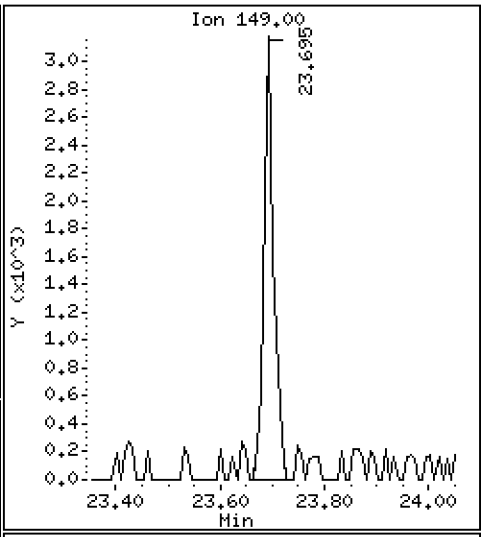
Column phase: ZB-5msi

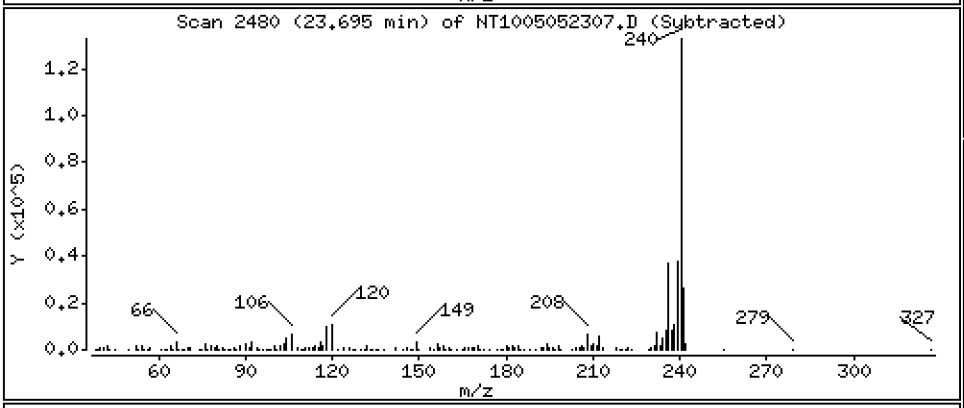
Column diameter: 0.25

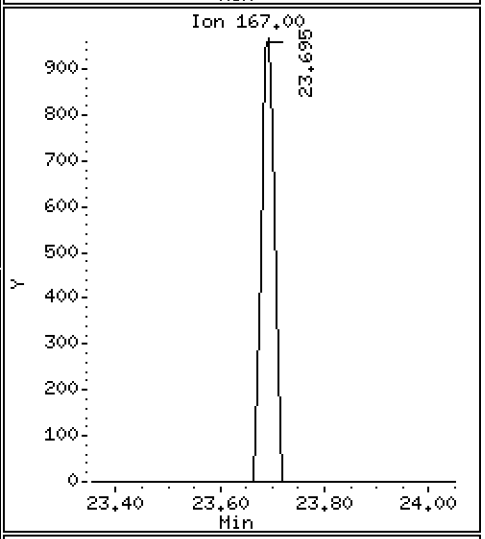
72 bis(2-Ethylhexyl)phthalate

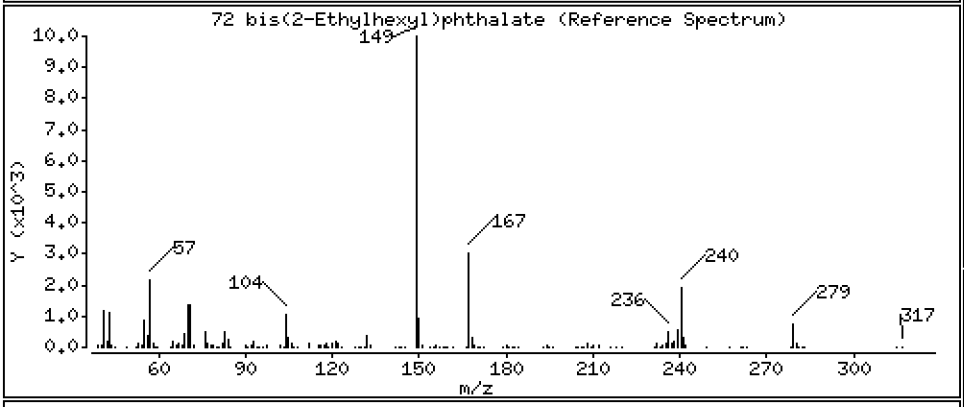
Concentration: 0.03666 ug/mL

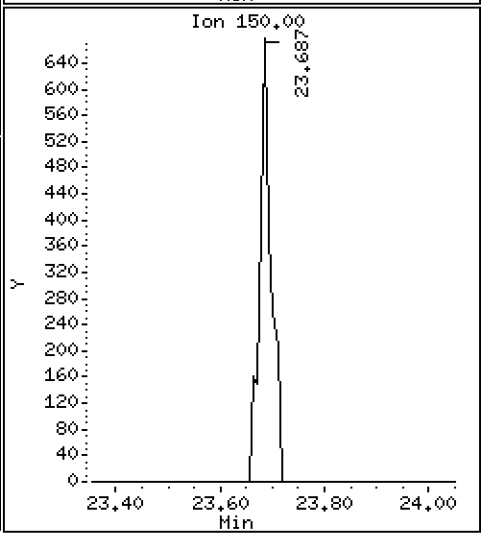


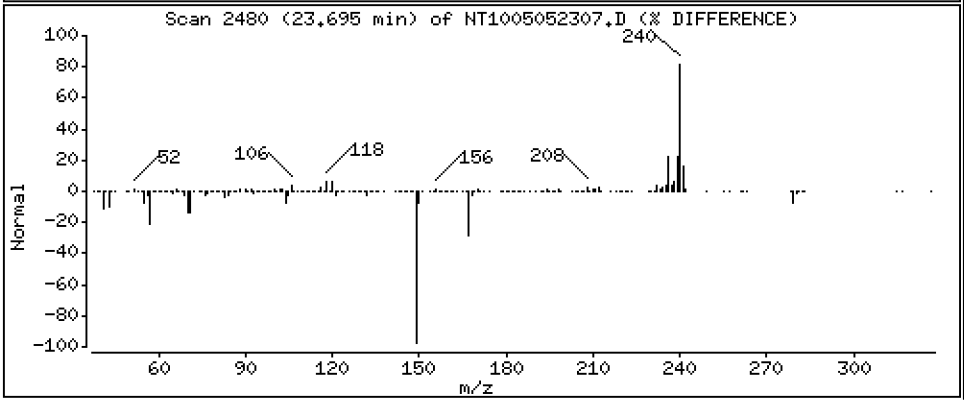












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052307.D
Lab Smp Id: BLD0329-BLK1
Inj Date : 05-MAY-2023 14:40
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0329-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.238	7.253	(1.000)	146072	2.90344	2.903	
$	2 Phenol-d5	99	8.822	8.830	(1.000)	202067	3.33141	3.331	
	3 Phenol	94	8.845	8.853	(1.000)	1821	0.02808	0.02808	
$	5 2-Chlorophenol-d4	132	9.123	9.139	(1.000)	251018	4.31838	4.318	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.502	(1.000)	166260	4.00000		(M)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.851	9.867	(1.000)	136052	3.17267	3.173	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.766	9.766	(1.000)	3073	0.09858	0.09858	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	Compound Not Detected.						
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.976	10.240	(1.000)	247	0.00433	0.004325	
$	18 Nitrobenzene-d5	82	10.589	10.604	(0.884)	226439	3.24569	3.246	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.983	11.999	(1.000)	624309	4.00000		
	28 Naphthalene	128	Compound Not Detected.						
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.422	13.437	(1.120)	712	0.00547	0.005467	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.196	14.211	(0.909)	478168	3.25587	3.256
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.612	15.628	(1.000)	339232	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.555	16.571	(1.060)	22336	0.16539	0.1654
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	17.257	17.265	(1.105)	51380	3.10935	3.109
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.664	18.679	(1.000)	627090	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	21.077	21.085	(0.890)	2282	0.00997	0.009968
	65	Pyrene	202	21.495	21.511	(0.908)	1985	0.00868	0.008680
$	66	Terphenyl-d14	244	21.766	21.782	(0.919)	692728	3.83004	3.830
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.679	23.694	(1.000)	512752	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.694	23.702	(0.958)	4056	0.03666	0.03666
*	134	Di-n-octylphthalate-d4	153	24.724	24.739	(1.000)	768100	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	26.520	26.528	(1.000)	443652	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052307.D
Lab Smp Id: BLD0329-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	166260	-7.36
27 Naphthalene-d8	621628	310814	1243256	624309	0.43
42 Acenaphthene-d10	353112	176556	706224	339232	-3.93
59 Phenanthrene-d10	694933	347467	1389866	627090	-9.76
69 Chrysene-d12	553967	276984	1107934	512752	-7.44
134 Di-n-octylphthala	895601	447801	1791202	768100	-14.24
77 Perylene-d12	482573	241287	965146	443652	-8.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	12.00	11.50	12.50	11.98	-0.13
42 Acenaphthene-d10	15.63	15.13	16.13	15.61	-0.10
59 Phenanthrene-d10	18.68	18.18	19.18	18.66	-0.08
69 Chrysene-d12	23.69	23.19	24.19	23.68	-0.07
134 Di-n-octylphthala	24.74	24.24	25.24	24.72	-0.06
77 Perylene-d12	26.53	26.03	27.03	26.52	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005052307.D

Lab ID: BLD0329-BLK1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 14:40

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

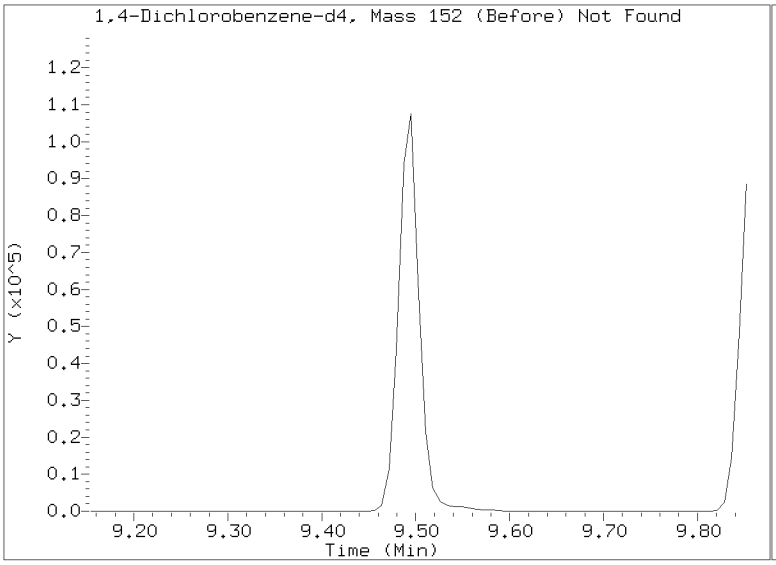
RRT check based on Ccal File: NT1005052303.D

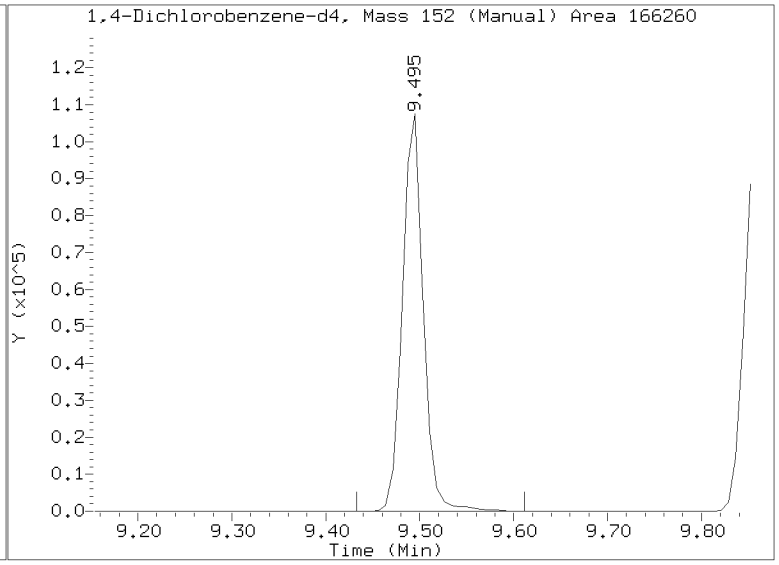
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052307.D
Injection Date: 05-MAY-2023 14:40
Lab ID:BLD0329-BLK1 Client ID:
Report Date: 05/08/2023 10:14





APPROVED

By Deenay Dunmore at 10:40 am, May 08, 2023

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 15:18
Batch:	BLD0329	Laboratory ID:	BLD0329-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Phenol	500	231		46.3	34 - 120
4-Methylphenol	500	266		53.1	29 - 120
Naphthalene	500	307		61.5	43 - 120
2-Methylnaphthalene	500	300		60.0	43 - 120
Acenaphthylene	500	299		59.7	42 - 120
Dimethylphthalate	500	362		72.5	43 - 120
Acenaphthene	500	319		63.7	45 - 120
Dibenzofuran	500	319		63.9	43 - 120
Fluorene	500	317		63.3	45 - 120
Phenanthrene	500	341		68.2	49 - 120
Anthracene	500	295		59.1	45 - 120
Fluoranthene	500	354		70.8	53 - 145
Pyrene	500	353		70.6	52 - 134
Butylbenzylphthalate	500	367		73.4	45 - 132
Benzo(a)anthracene	500	355		70.9	49 - 120
Chrysene	500	355		71.0	47 - 120
bis(2-Ethylhexyl)phthalate	500	408		81.6	34 - 130
Benzofluoranthenes, Total	1000	734		73.4	30 - 160
Benzo(a)pyrene	500	349		69.9	42 - 120
Indeno(1,2,3-cd)pyrene	500	376		75.2	42 - 163
Dibenzo(a,h)anthracene	500	371		74.2	30 - 133
Benzo(g,h,i)perylene	500	380		76.1	46 - 148

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	262		52.3	12.4	30	34 - 120
4-Methylphenol	500	314		62.8	16.8	30	29 - 120
Naphthalene	500	339		67.8	9.84	30	43 - 120
2-Methylnaphthalene	500	334		66.8	10.7	30	43 - 120
Acenaphthylene	500	344		68.7	14.0	30	42 - 120
Dimethylphthalate	500	414		82.9	13.4	30	43 - 120
Acenaphthene	500	360		72.0	12.3	30	45 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 15:57
Batch:	BLD0329	Laboratory ID:	BLD0329-BSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS Dup
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenzofuran	500	365		73.0	13.3	30	43 - 120
Fluorene	500	367		73.4	14.7	30	45 - 120
Phenanthrene	500	370		74.0	8.13	30	49 - 120
Anthracene	500	335		66.9	12.5	30	45 - 120
Fluoranthene	500	387		77.5	8.99	30	53 - 145
Pyrene	500	388		77.7	9.56	30	52 - 134
Butylbenzylphthalate	500	393		78.5	6.70	30	45 - 132
Benzo(a)anthracene	500	389		77.7	9.13	30	49 - 120
Chrysene	500	386		77.3	8.51	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	448		89.6	9.26	30	34 - 130
Benzofluoranthenes, Total	1000	815		81.5	10.5	30	30 - 160
Benzo(a)pyrene	500	387		77.4	10.2	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	406		81.1	7.59	30	42 - 163
Dibenzo(a,h)anthracene	500	404		80.8	8.52	30	30 - 133
Benzo(g,h,i)perylene	500	408		81.6	7.07	30	46 - 148

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

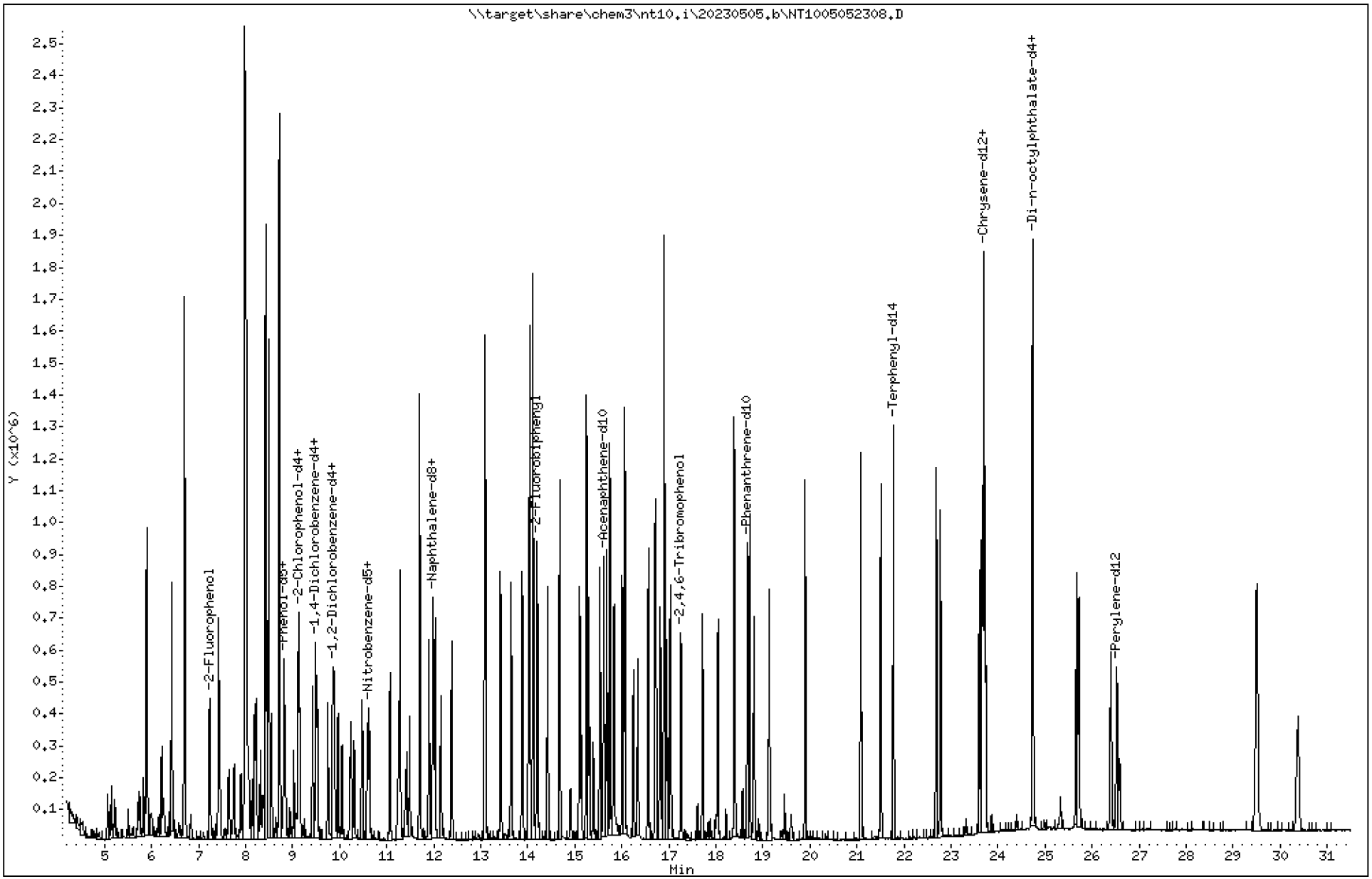
Sample Info: BLD0329-BS1

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS

Column diameter: 0.25



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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

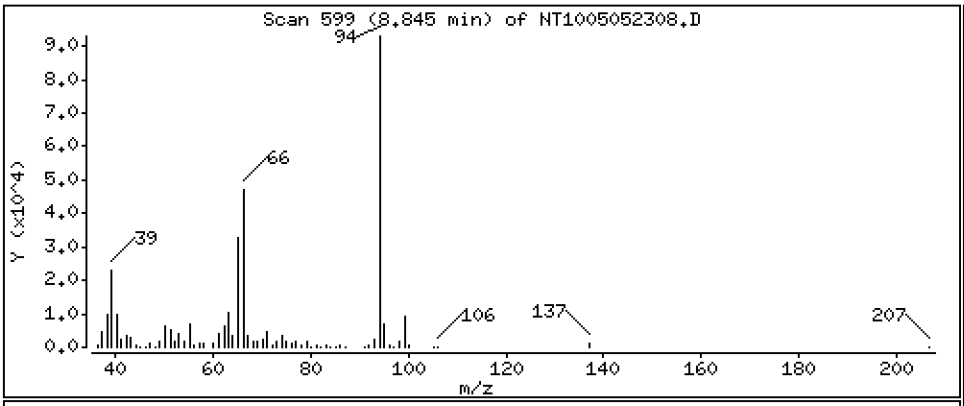
Operator: VTS

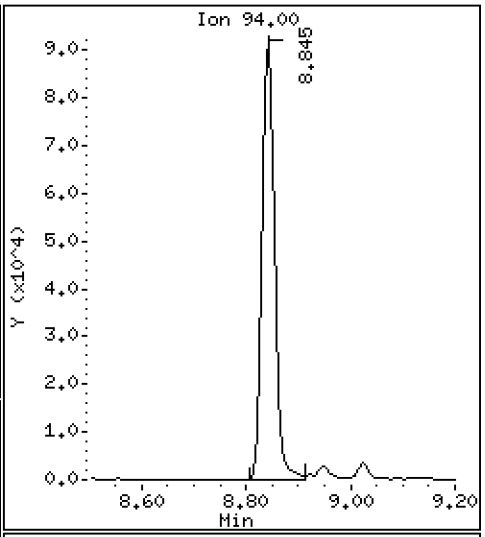
Column phase: ZB-5msi

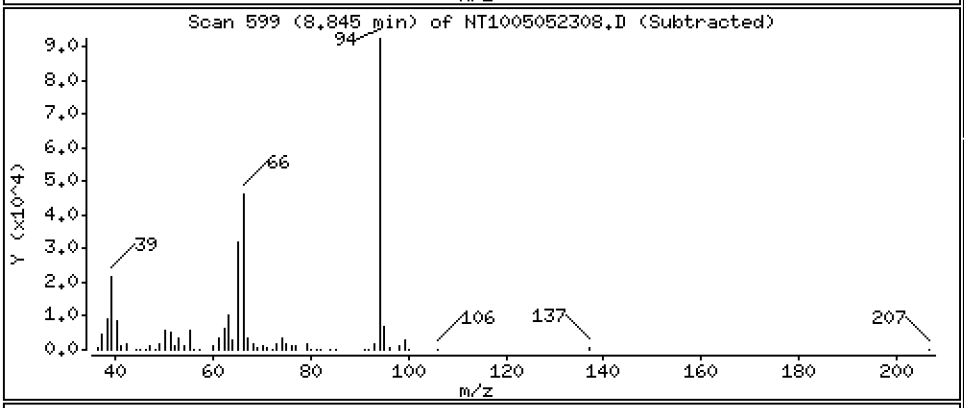
Column diameter: 0.25

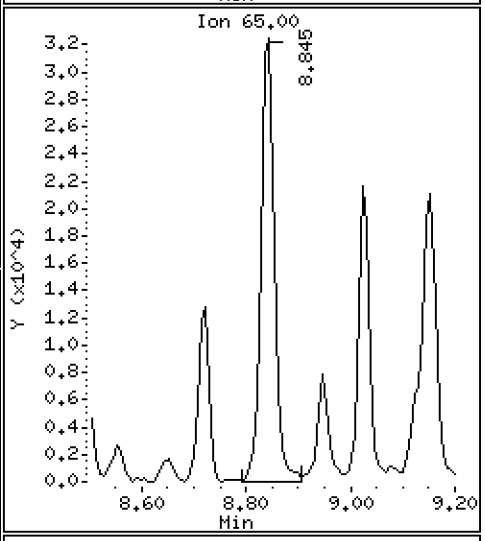
3 Phenol

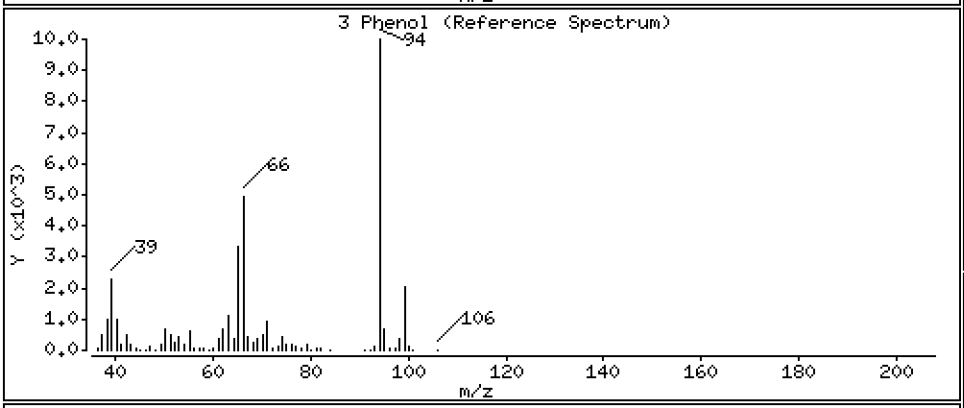
Concentration: 2.313 ug/mL

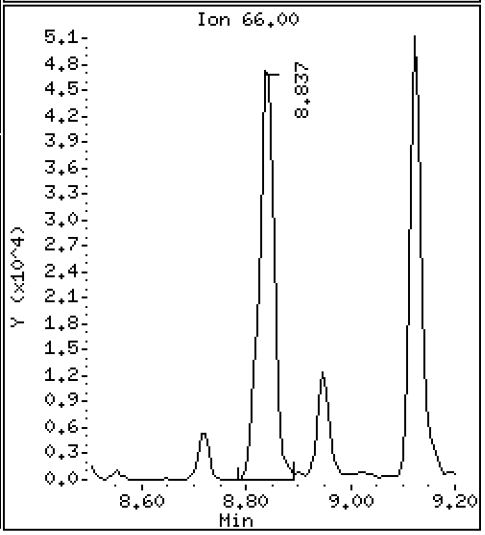


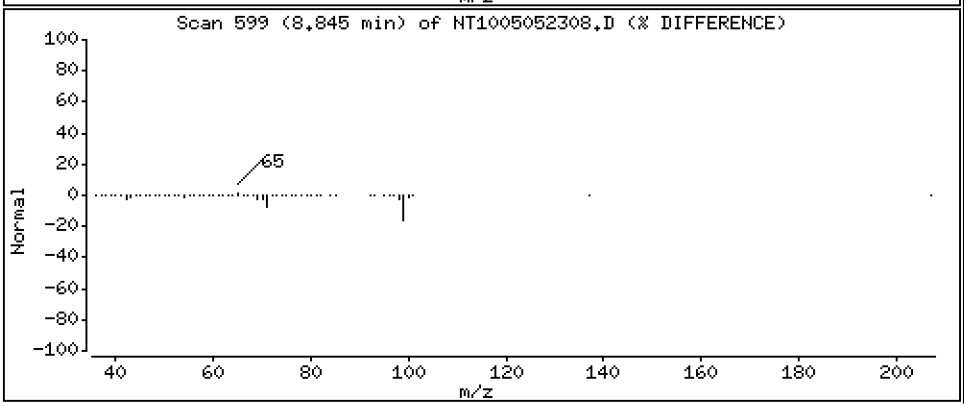












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

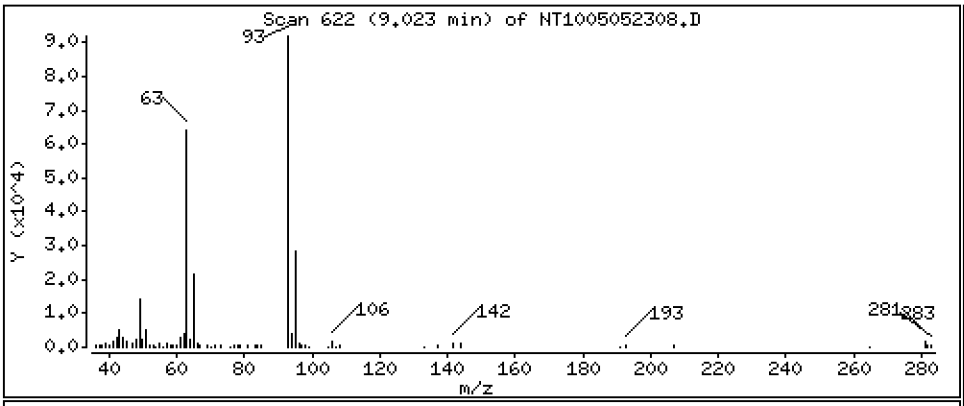
Operator: VTS

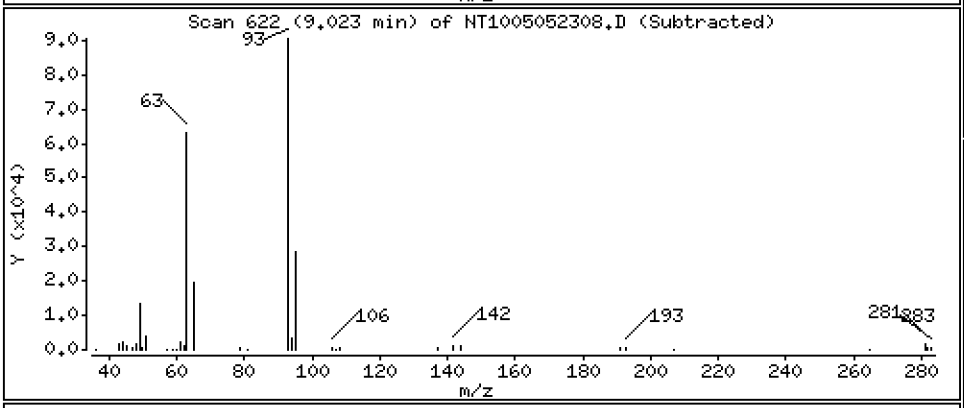
Column phase: ZB-5msi

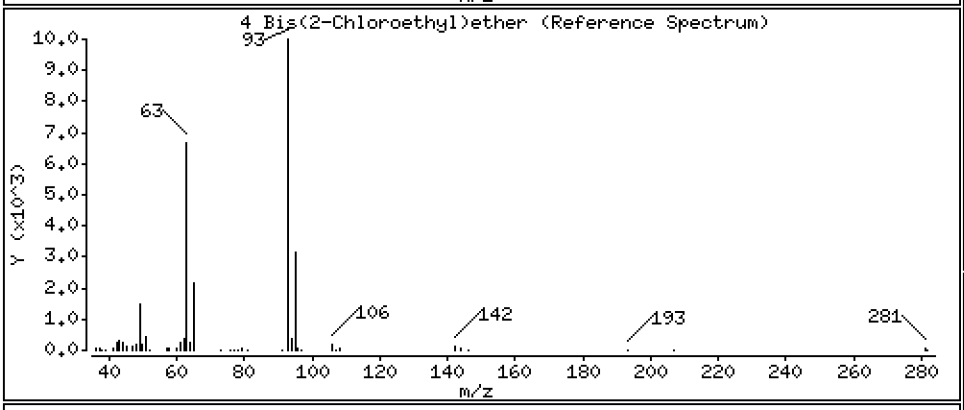
Column diameter: 0.25

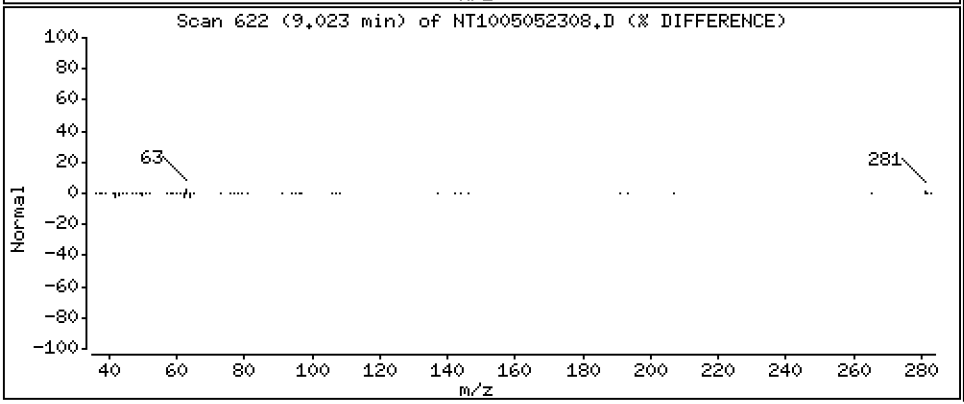
4 Bis(2-Chloroethyl)ether

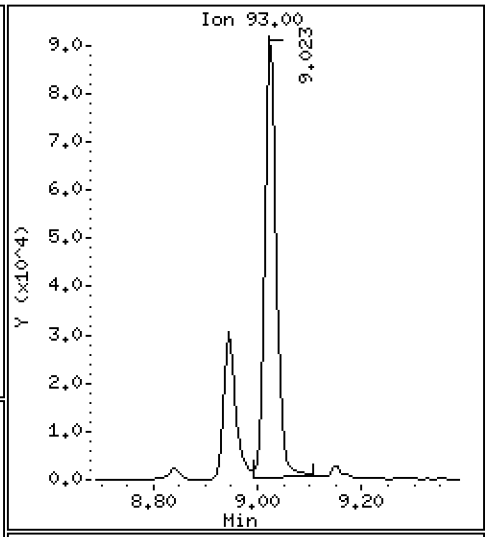
Concentration: 3.104 ug/mL

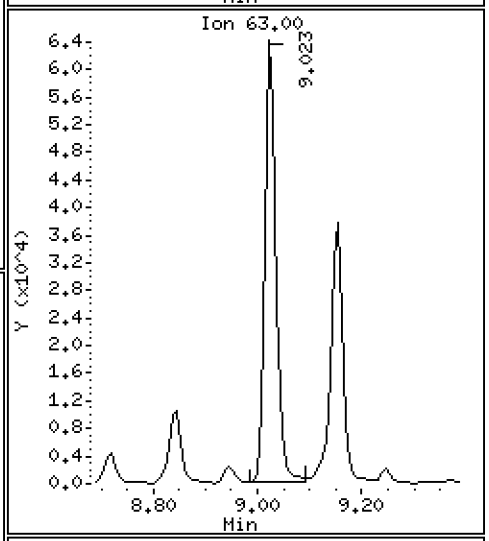


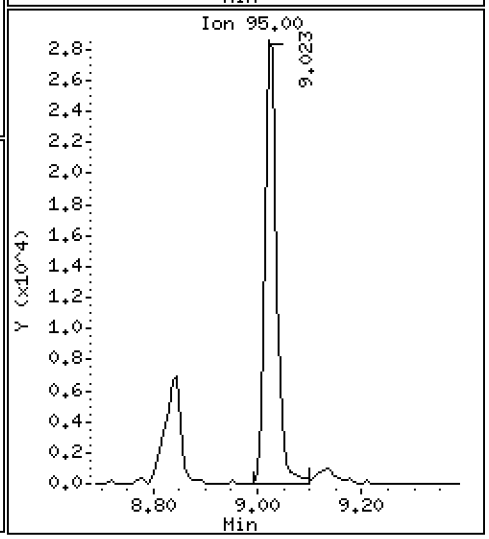












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

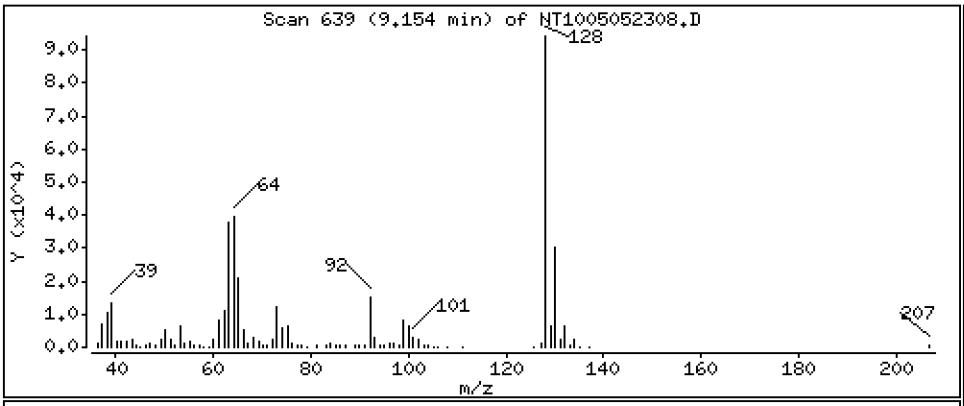
Operator: VTS

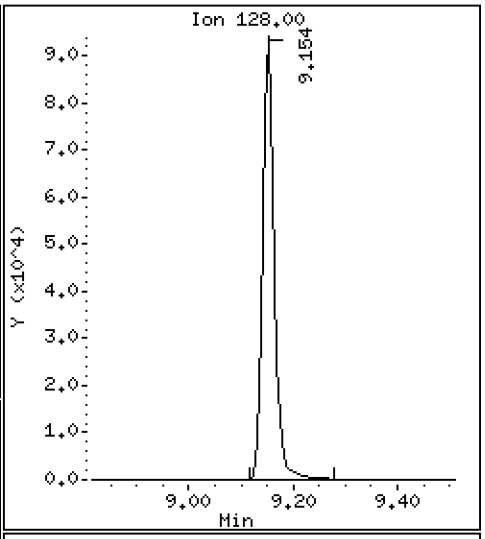
Column phase: ZB-5msi

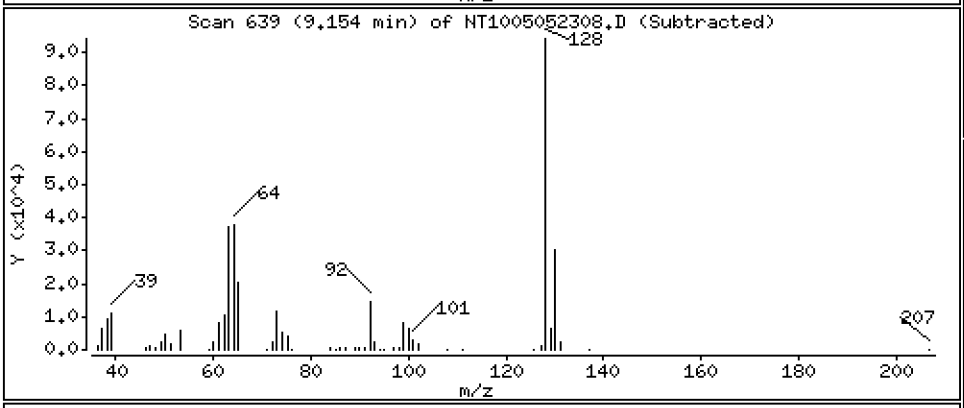
Column diameter: 0.25

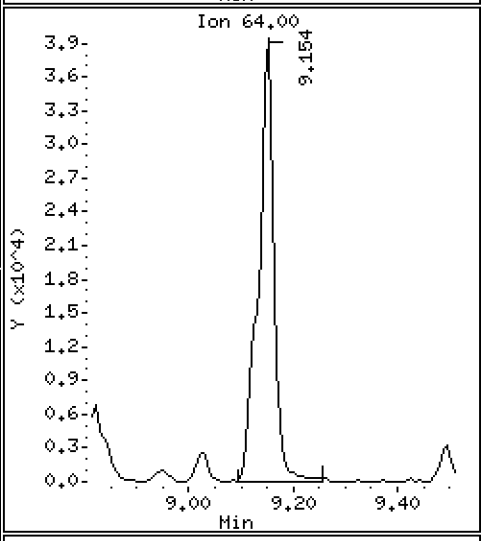
6 2-Chlorophenol

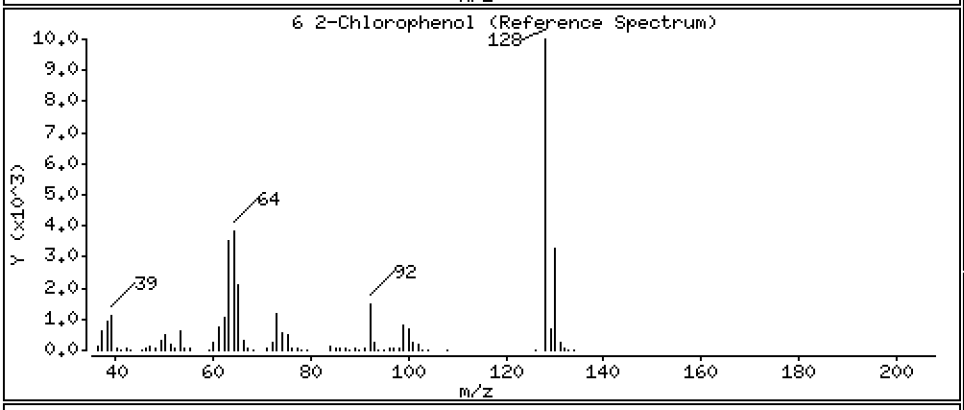
Concentration: 2.663 ug/mL

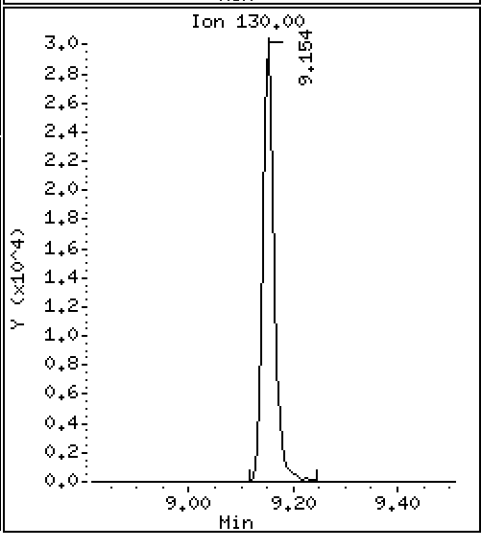


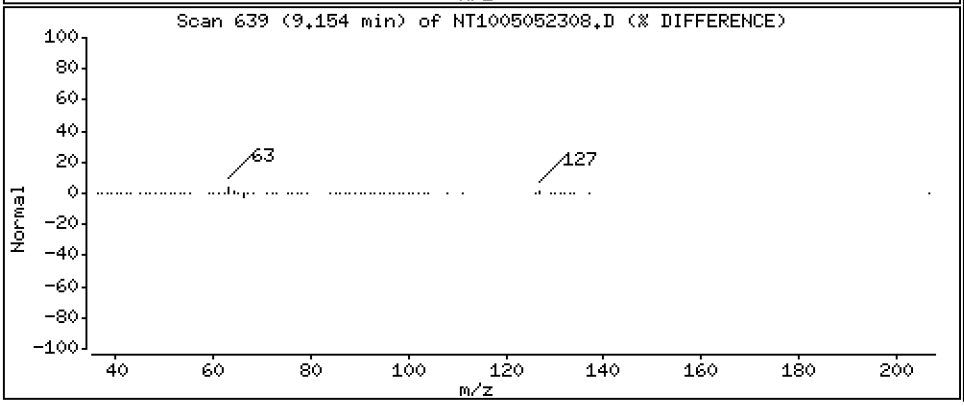












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

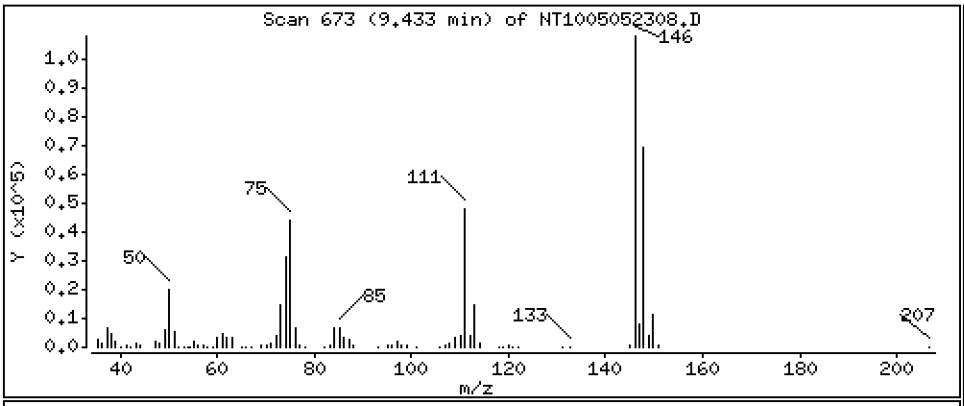
Operator: VTS

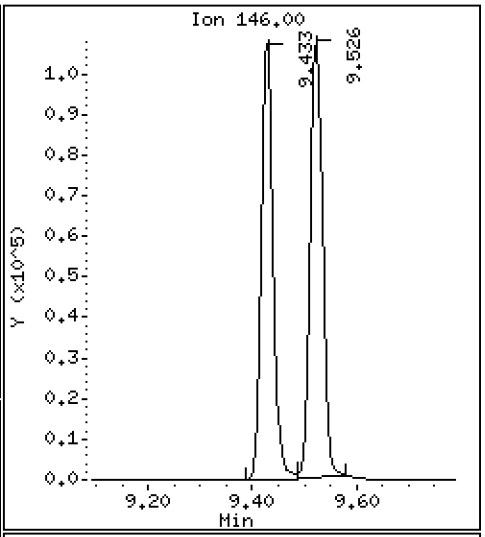
Column phase: ZB-5msi

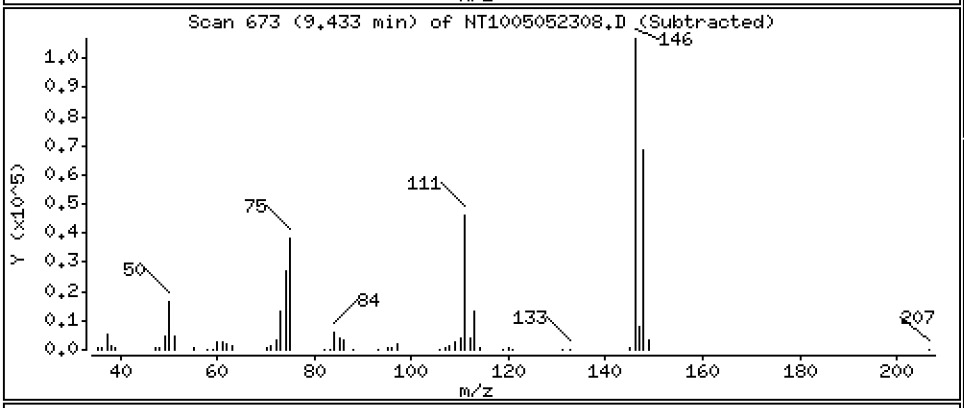
Column diameter: 0.25

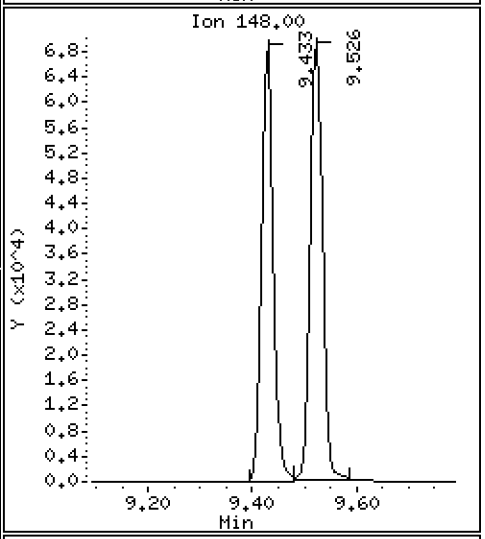
7 1,3-Dichlorobenzene

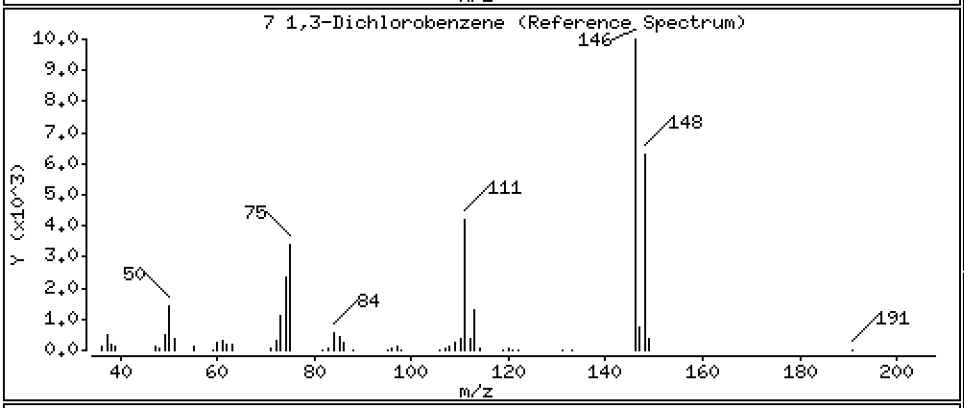
Concentration: 2.815 ug/mL

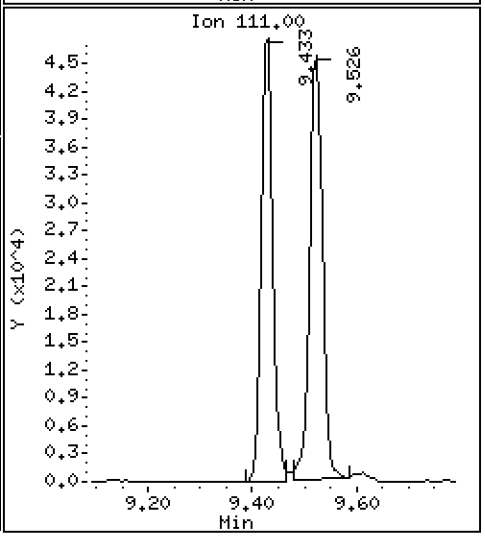


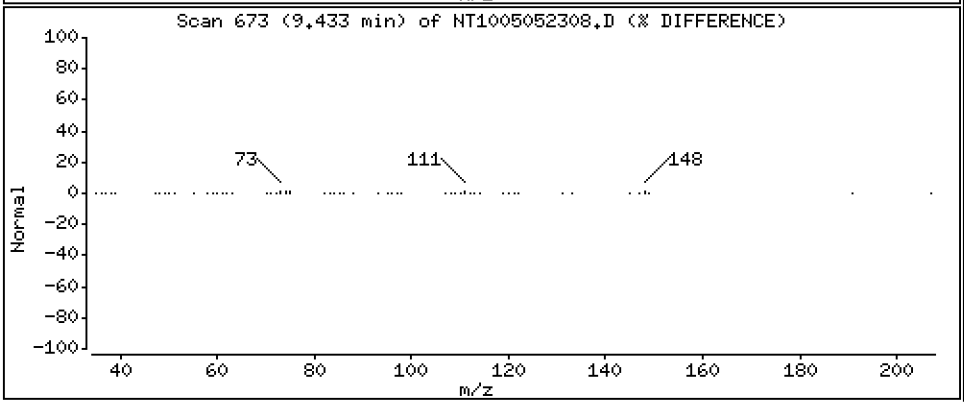












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

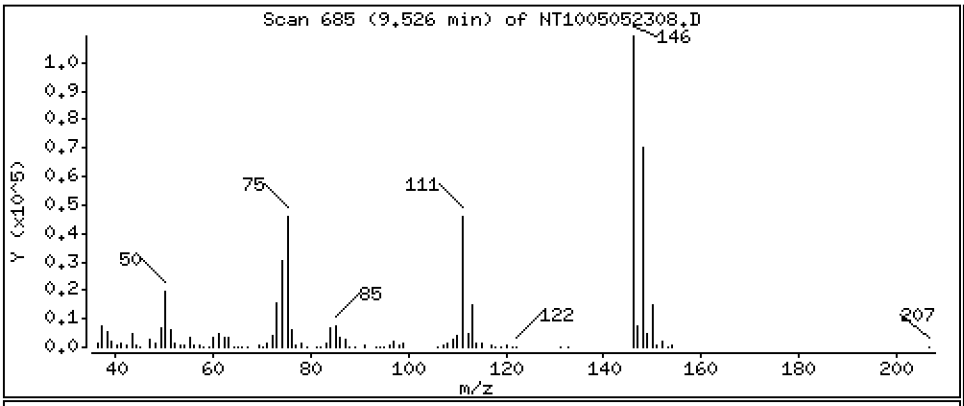
Operator: VTS

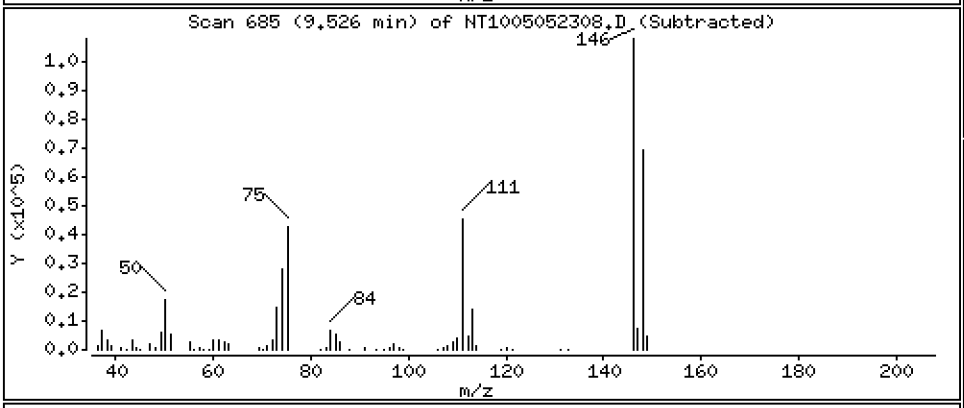
Column phase: ZB-5msi

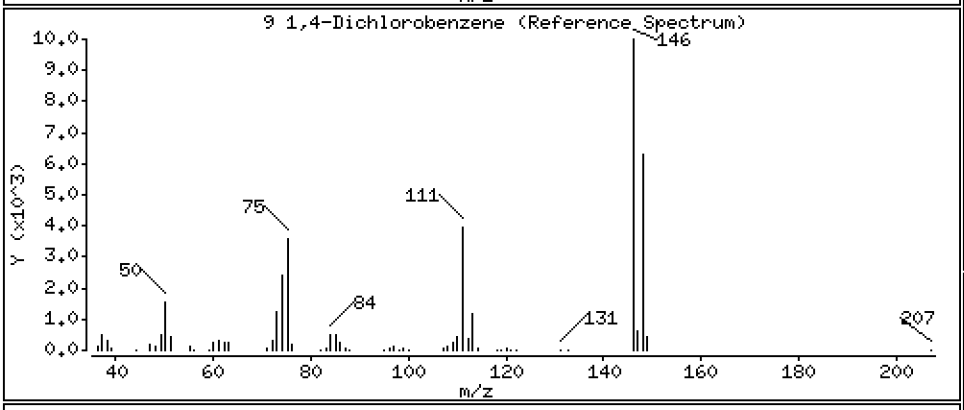
Column diameter: 0.25

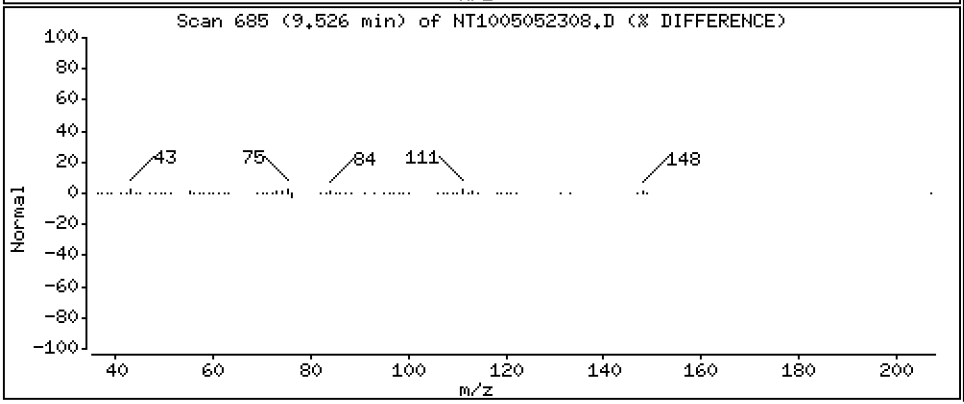
9 1,4-Dichlorobenzene

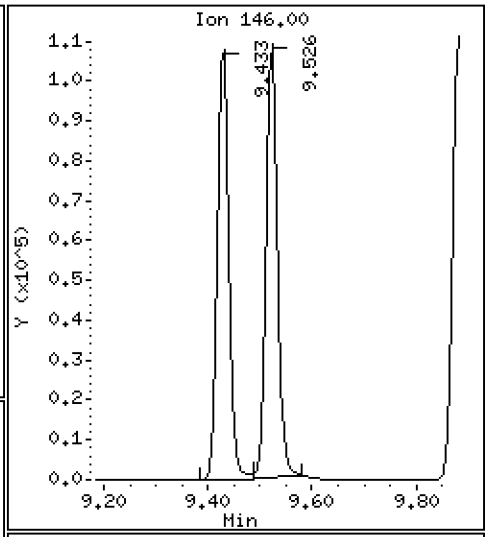
Concentration: 2.777 ug/mL

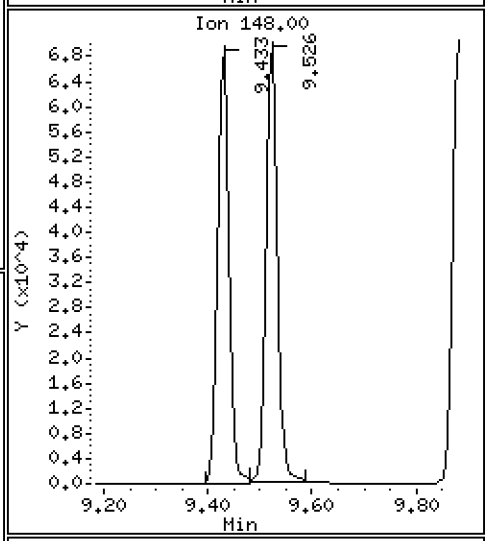


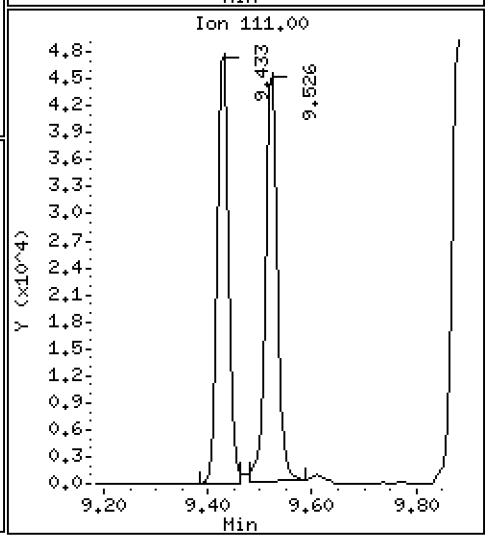












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

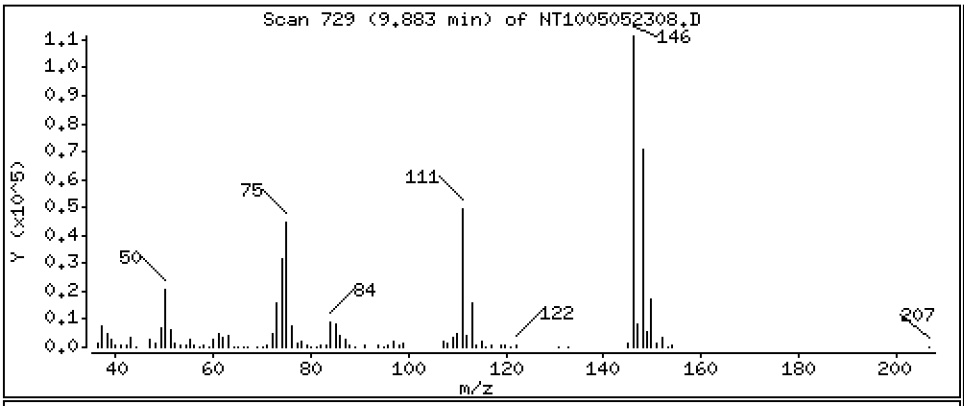
Operator: VTS

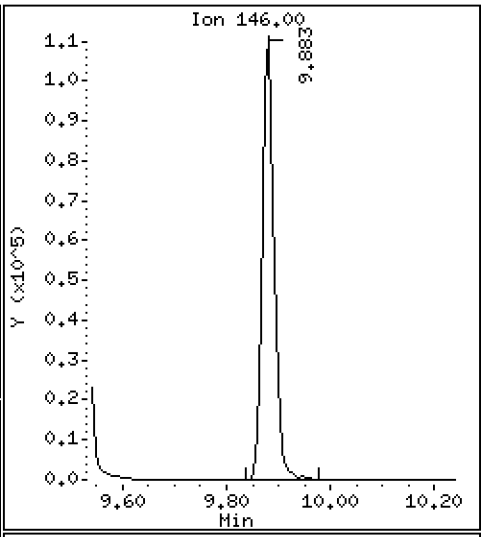
Column phase: ZB-5msi

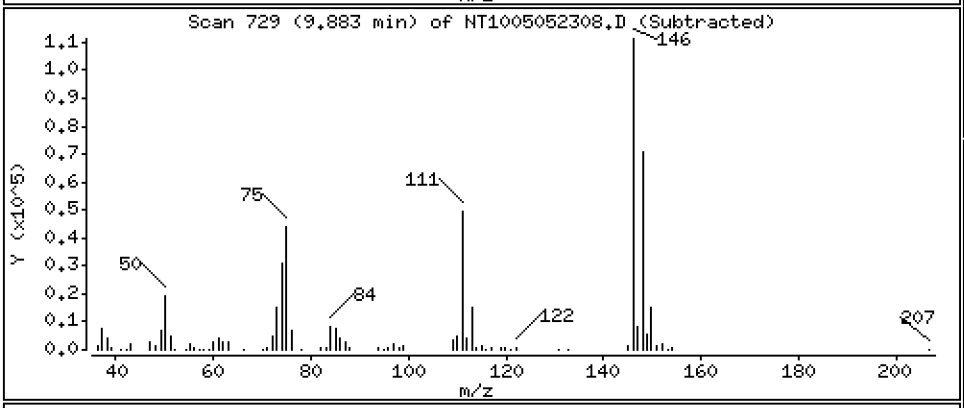
Column diameter: 0.25

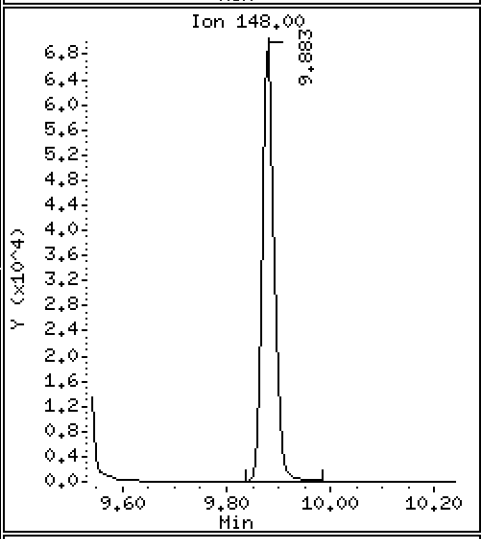
12 1,2-Dichlorobenzene

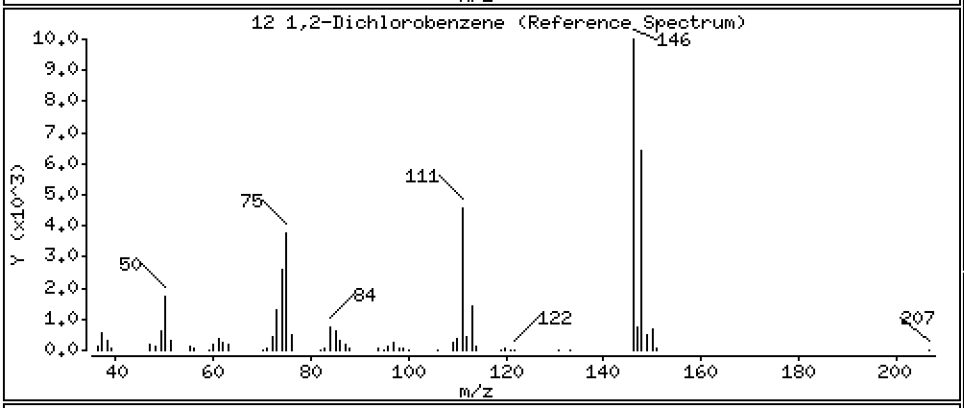
Concentration: 2.904 ug/mL

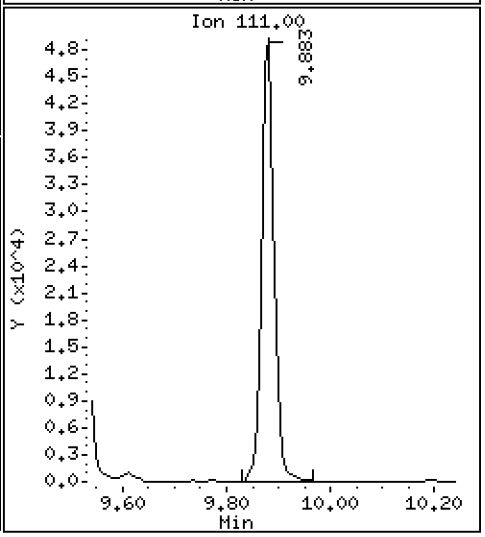


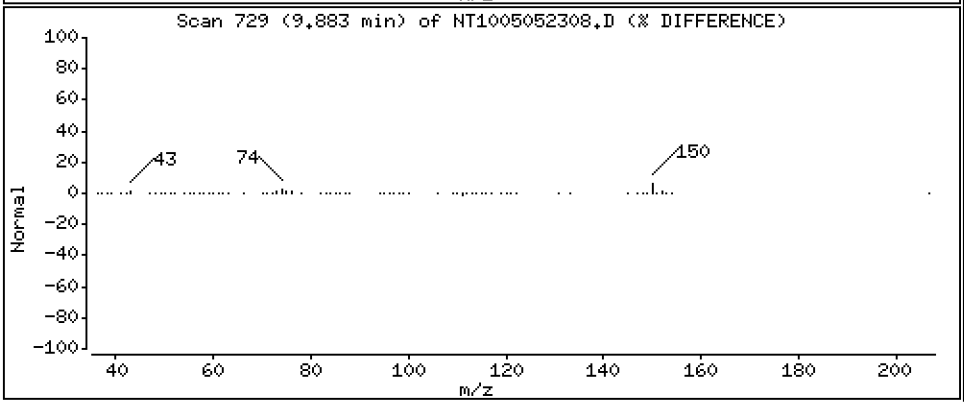












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

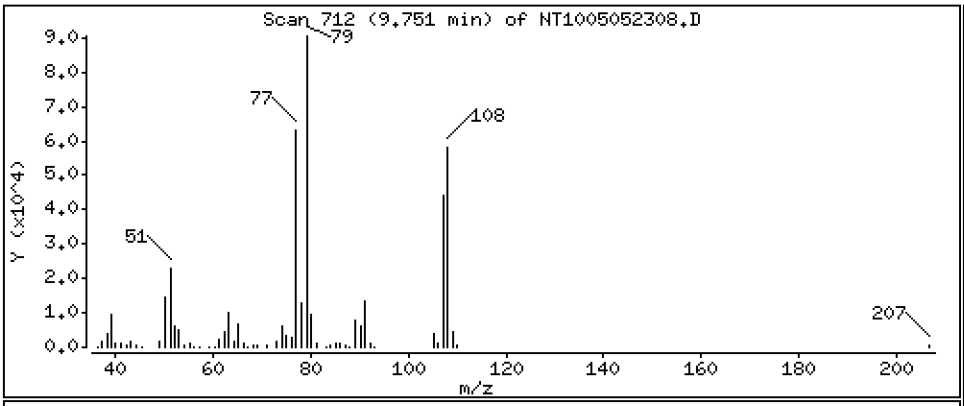
Operator: VTS

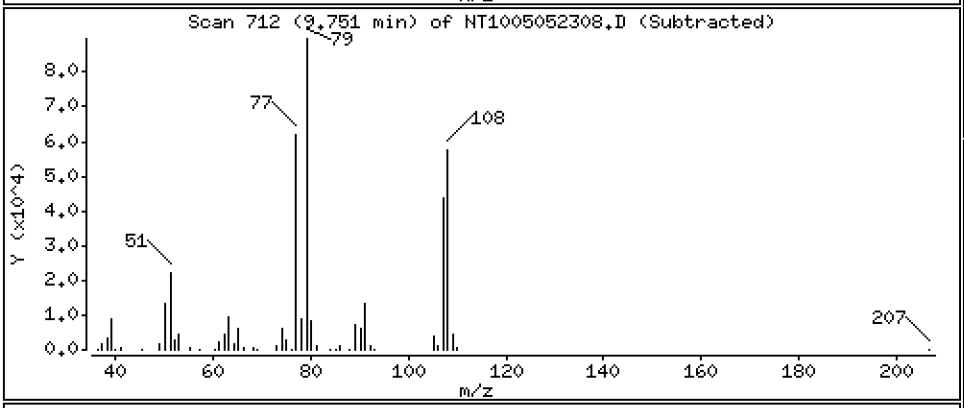
Column phase: ZB-5msi

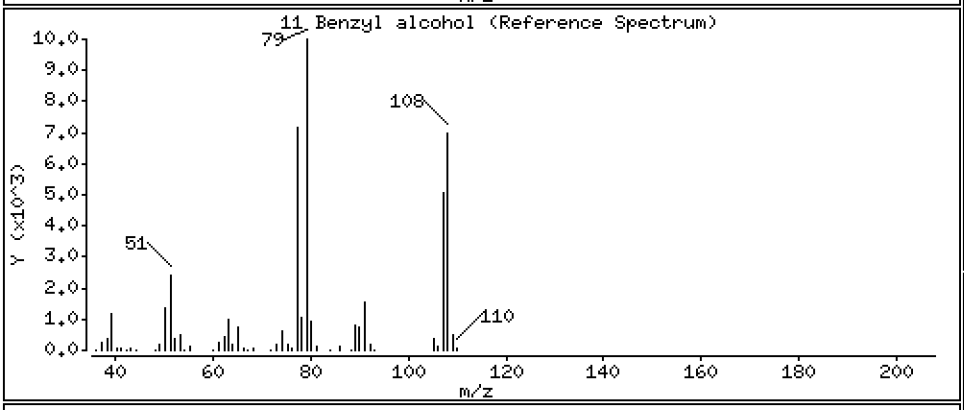
Column diameter: 0.25

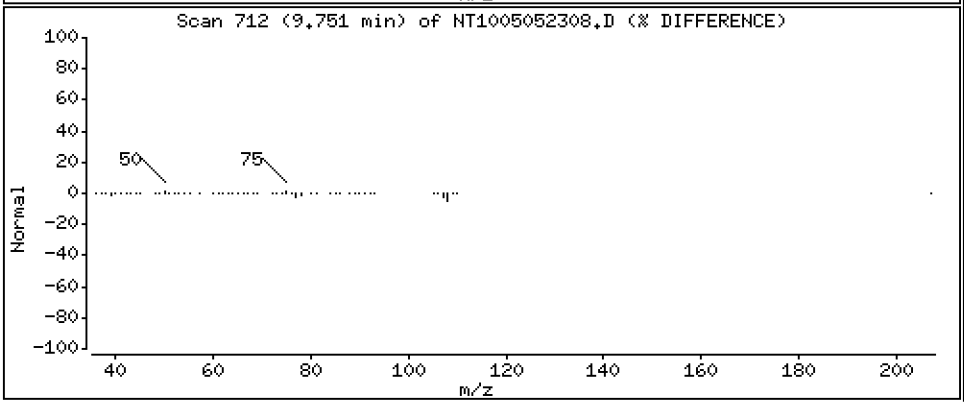
11 Benzyl alcohol

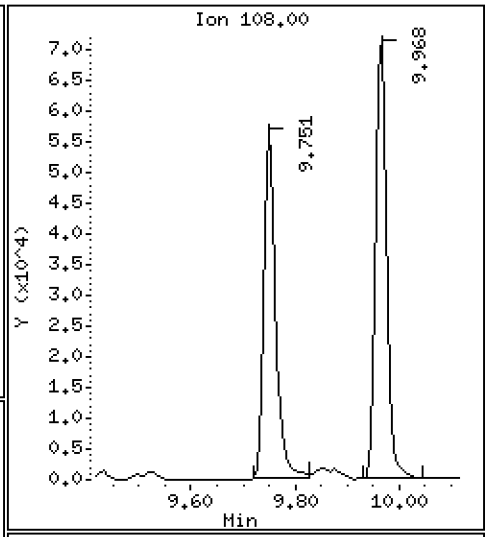
Concentration: 3.000 ug/mL

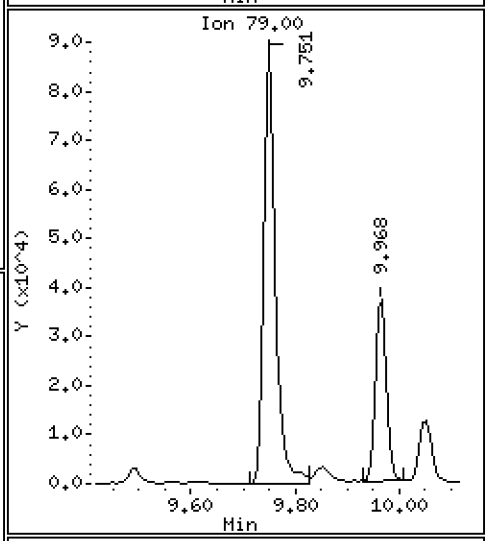


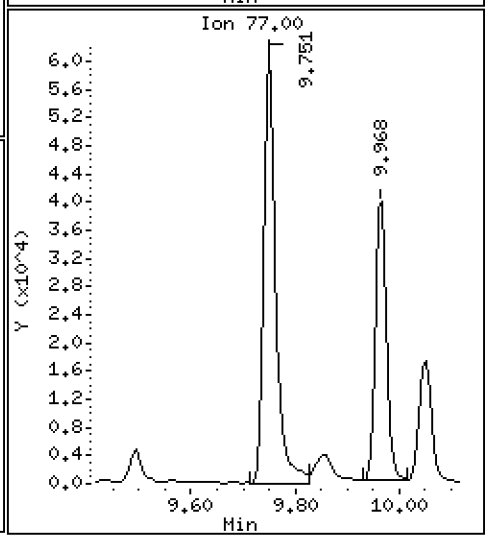












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

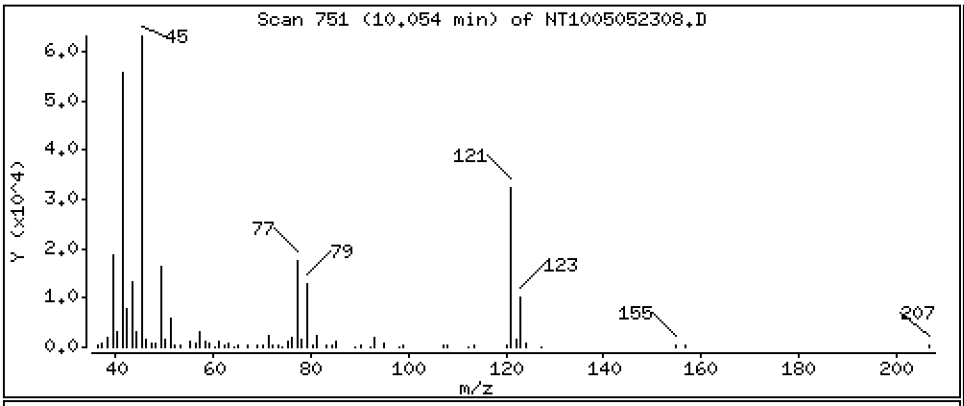
Operator: VTS

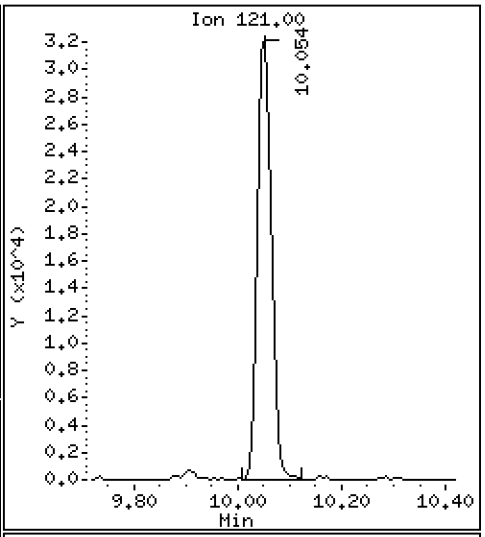
Column phase: ZB-5msi

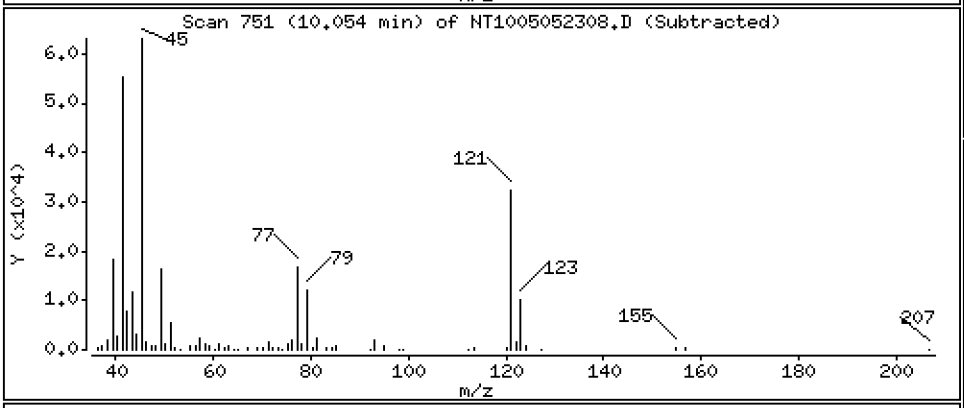
Column diameter: 0.25

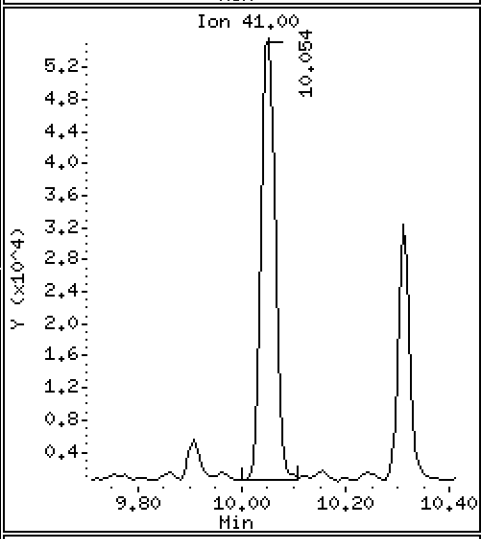
14 2,2'-oxybis(1-Chloropropane)

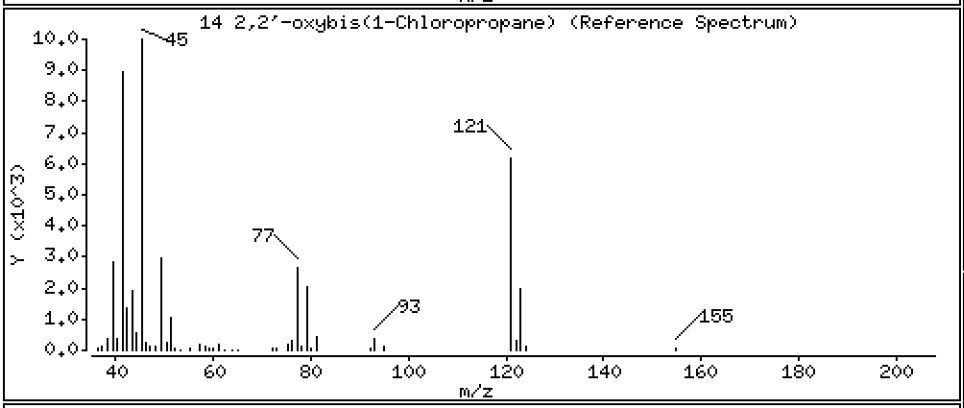
Concentration: 3.491 ug/mL

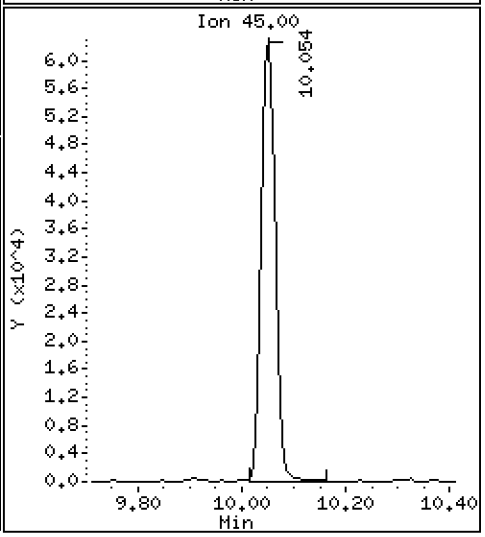


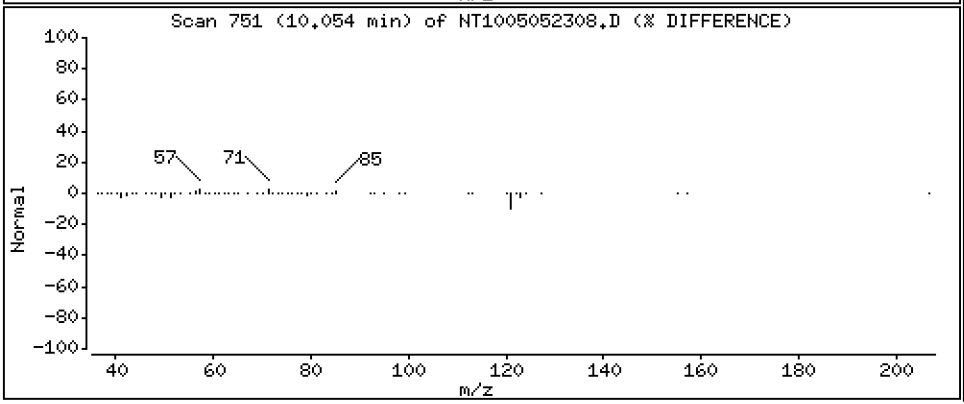












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

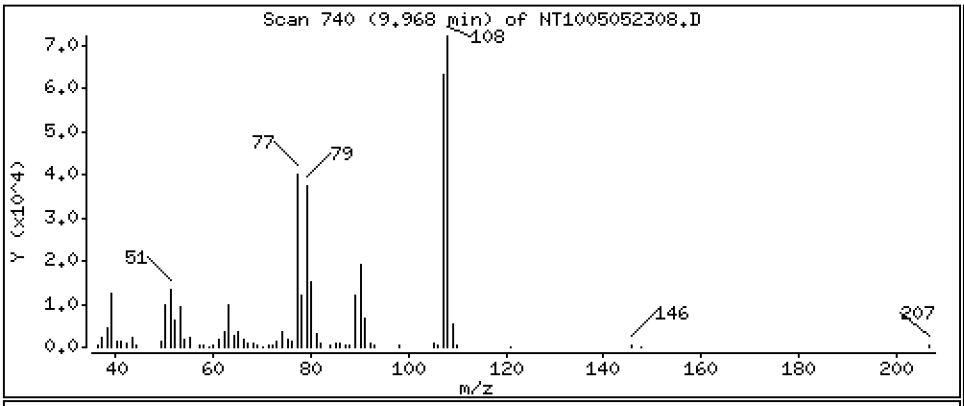
Operator: VTS

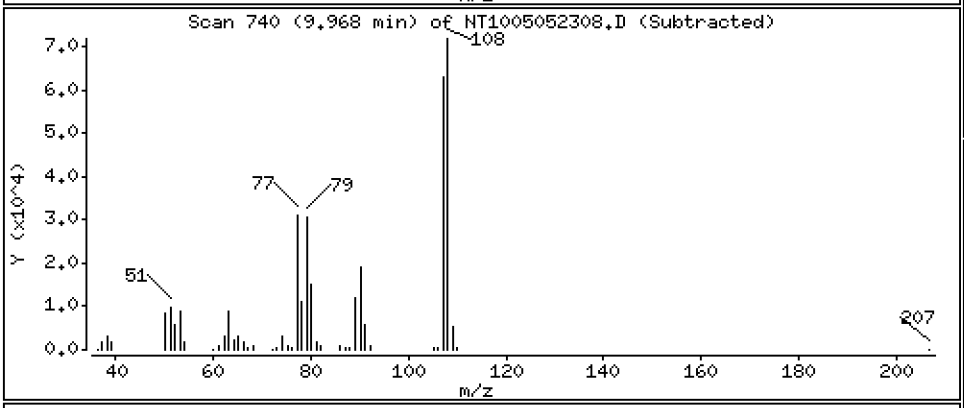
Column phase: ZB-5msi

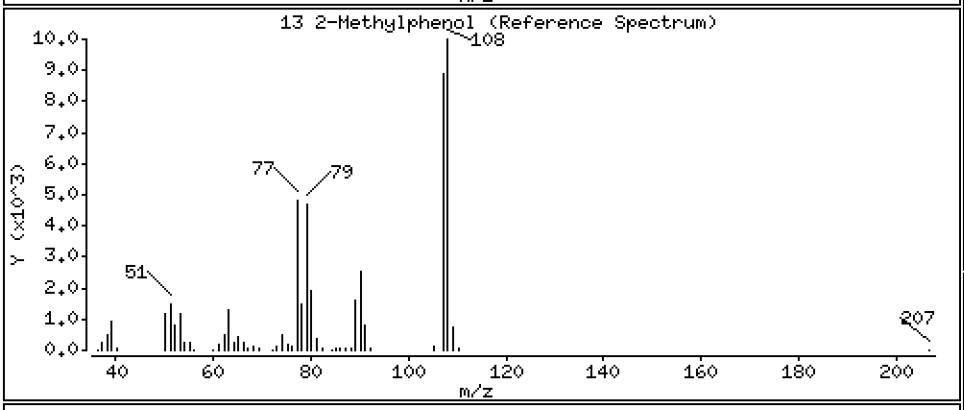
Column diameter: 0.25

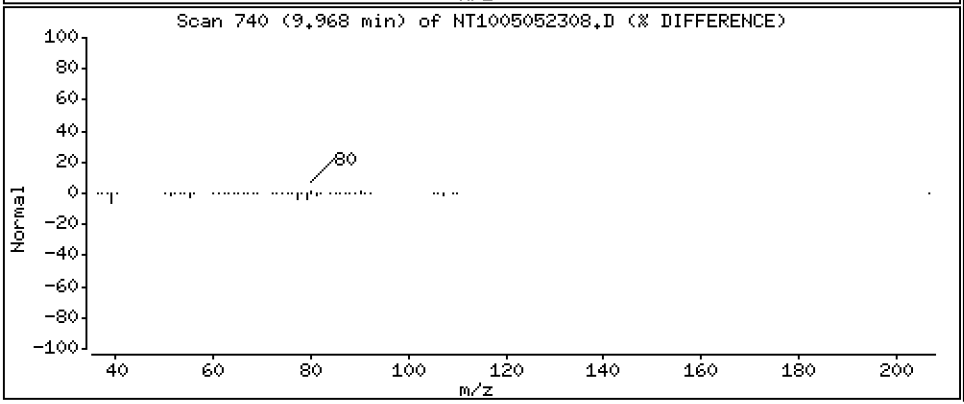
13 2-Methylphenol

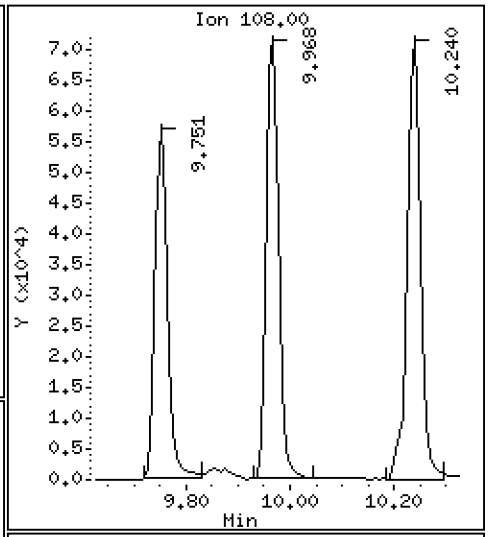
Concentration: 2.428 ug/mL

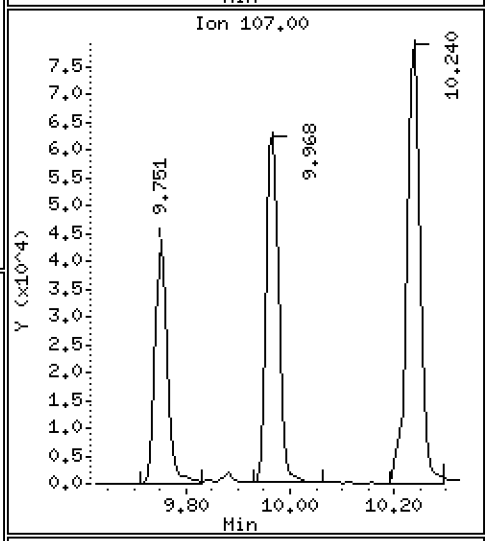


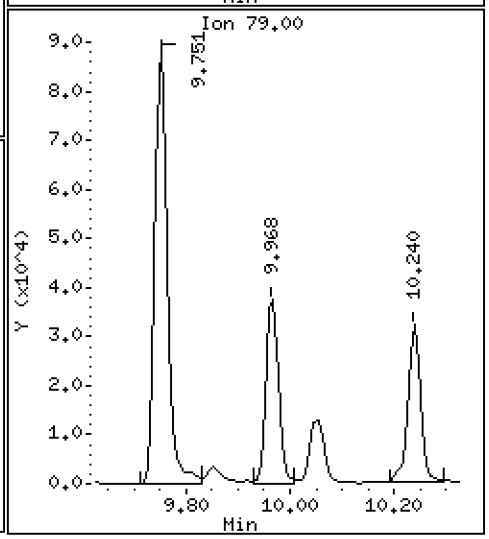












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

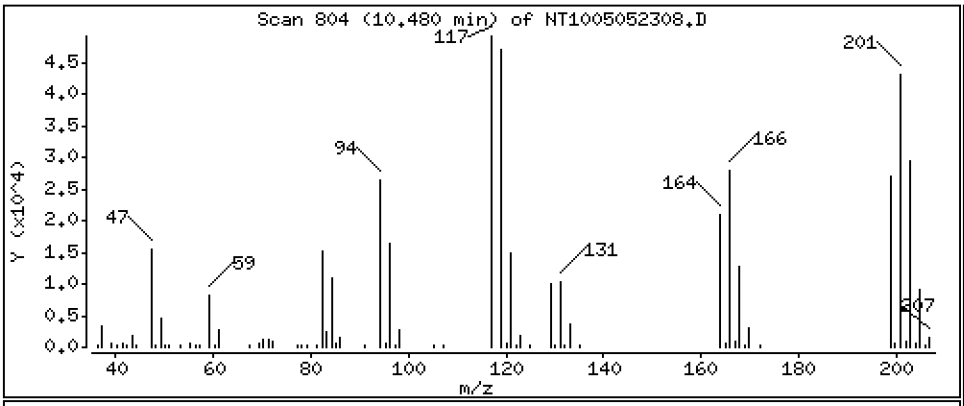
Operator: VTS

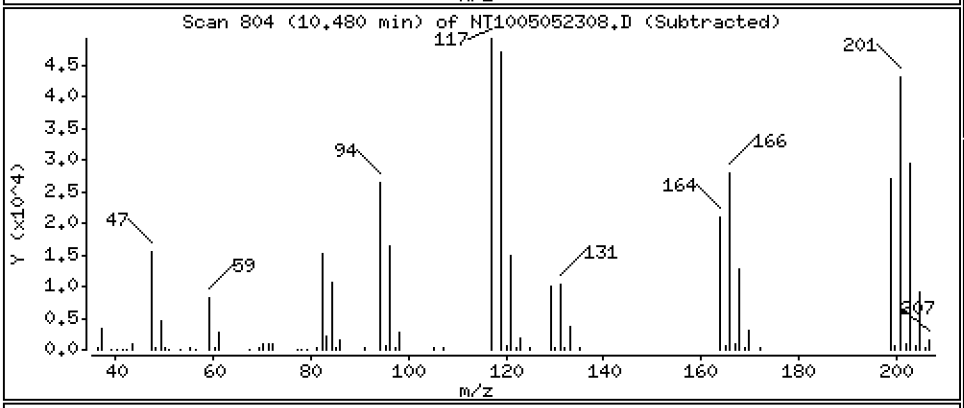
Column phase: ZB-5msi

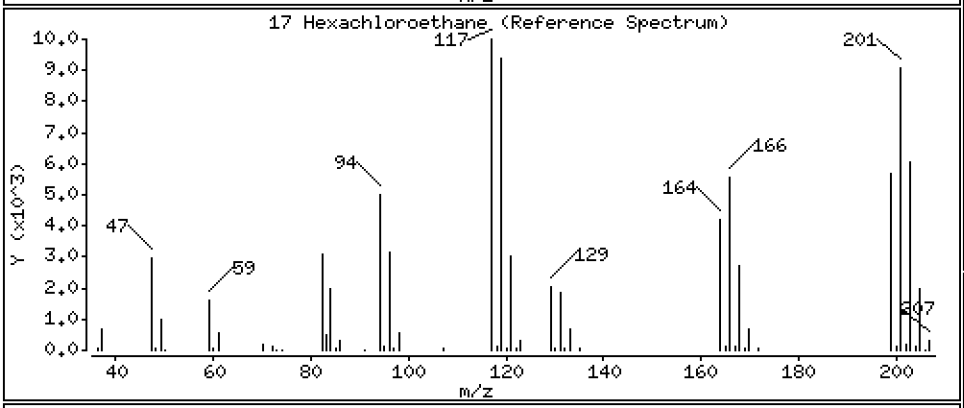
Column diameter: 0.25

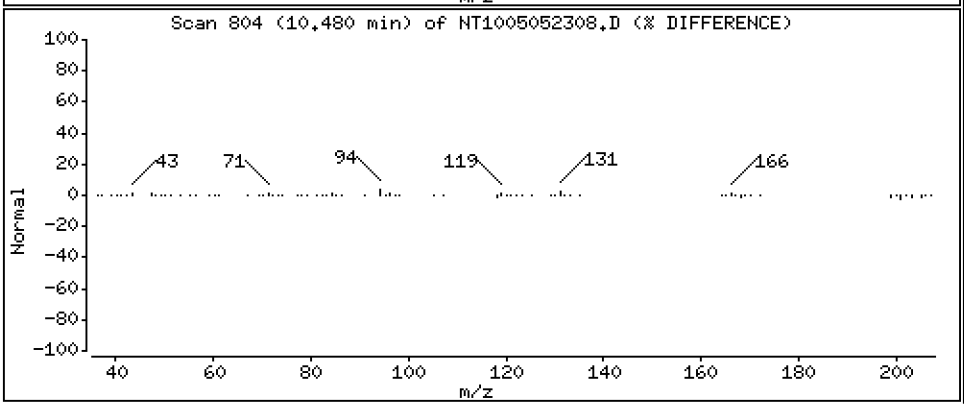
17 Hexachloroethane

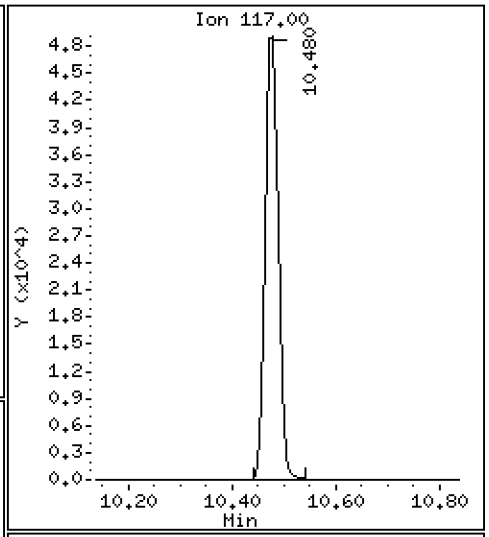
Concentration: 3.092 ug/mL

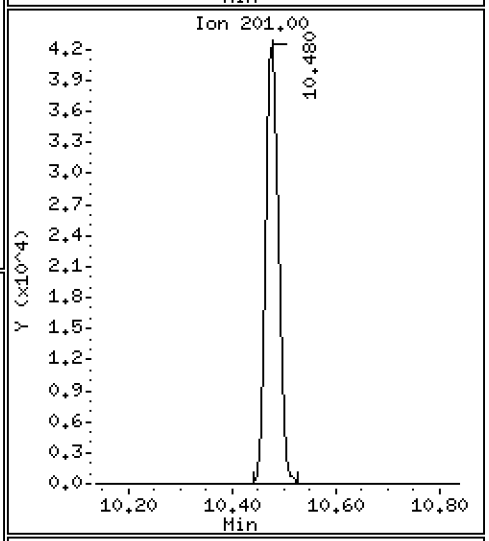


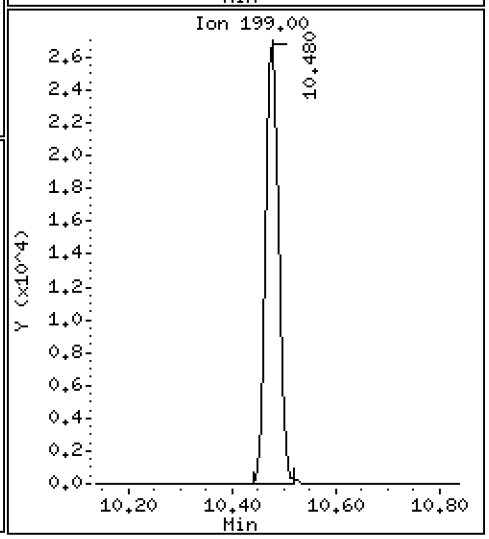












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

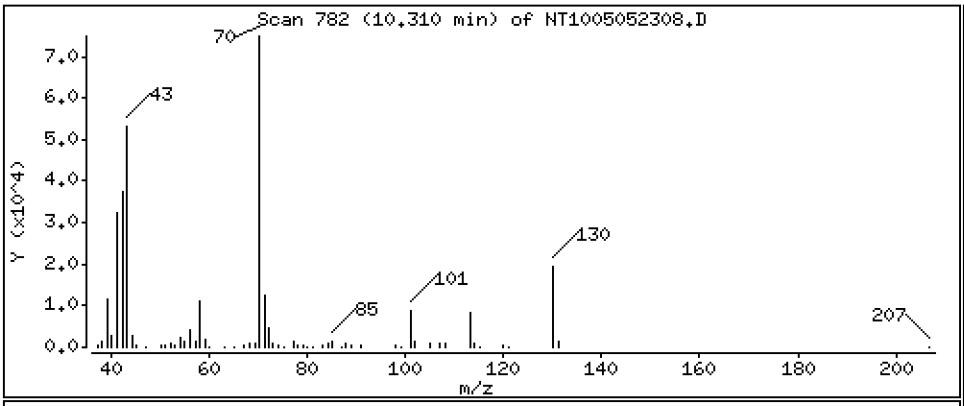
Operator: VTS

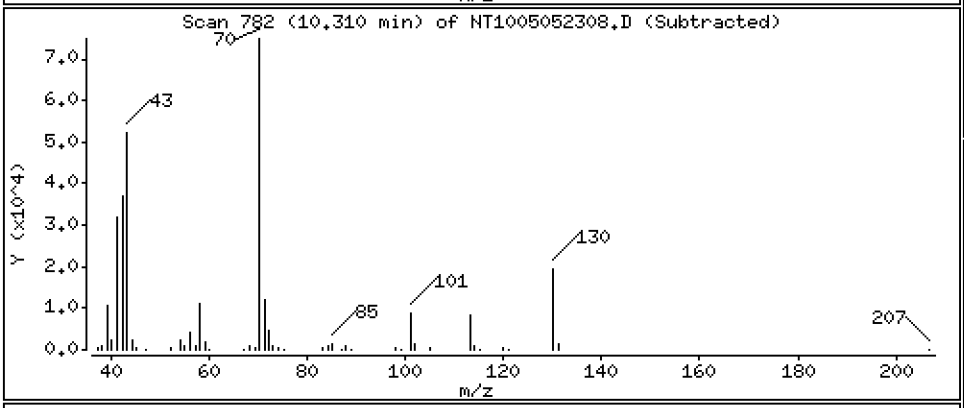
Column phase: ZB-5msi

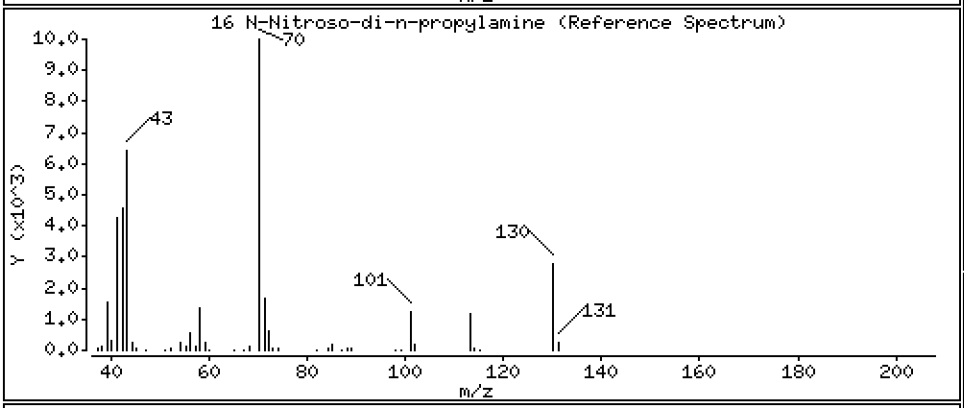
Column diameter: 0.25

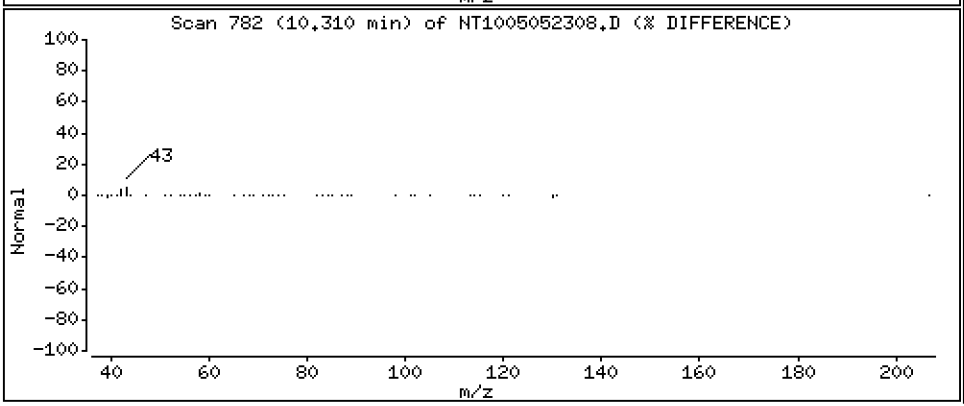
16 N-Nitroso-di-n-propylamine

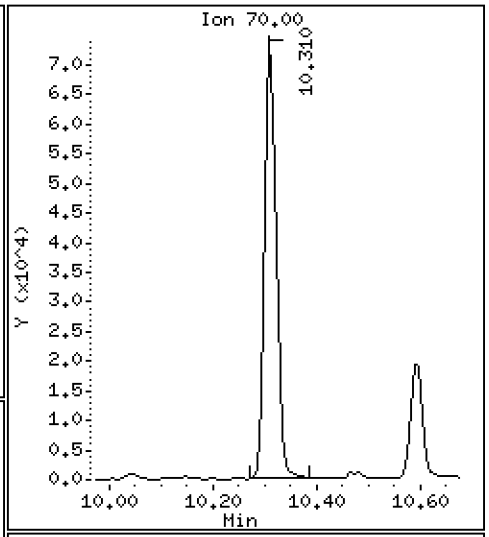
Concentration: 3.044 ug/mL

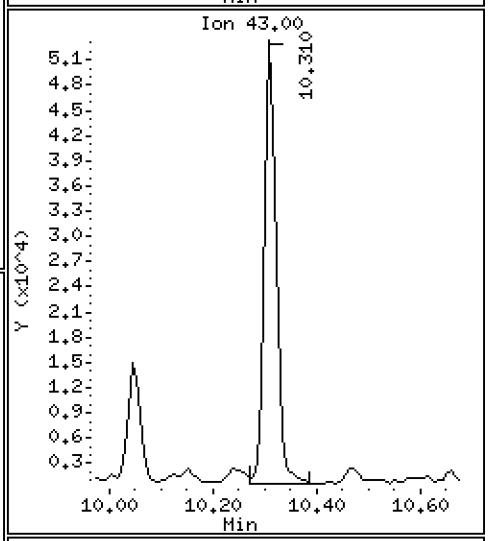


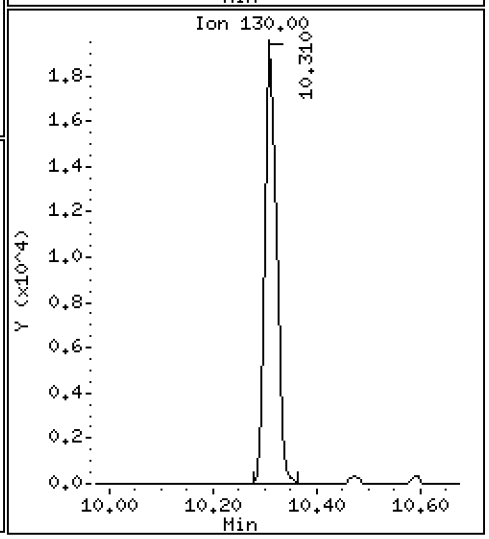












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

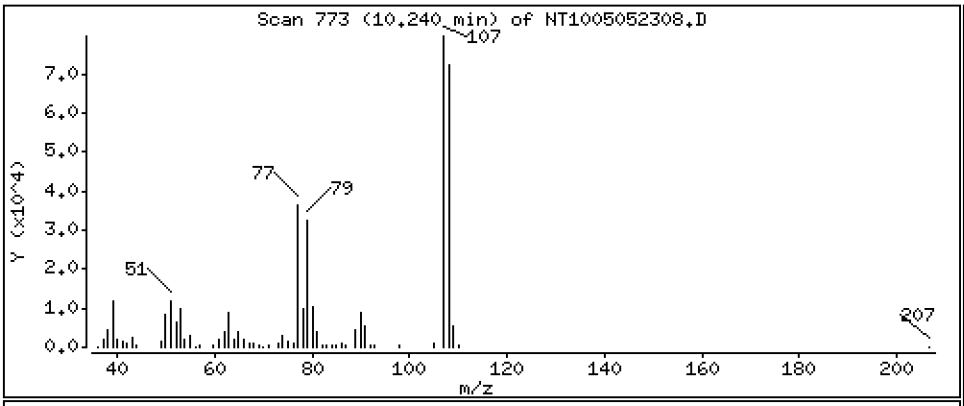
Operator: VTS

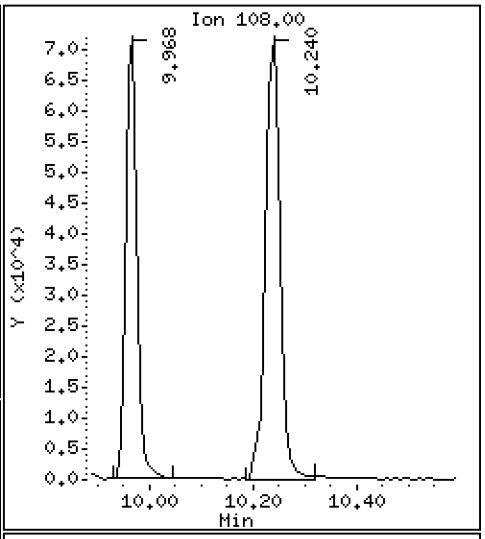
Column phase: ZB-5msi

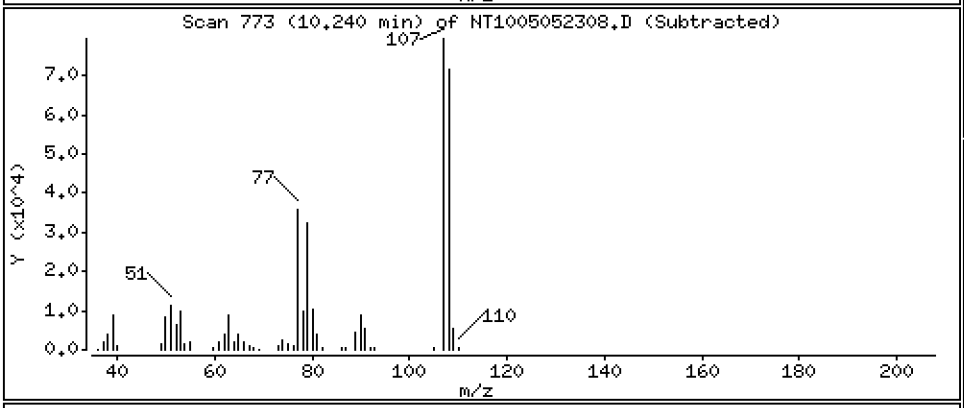
Column diameter: 0.25

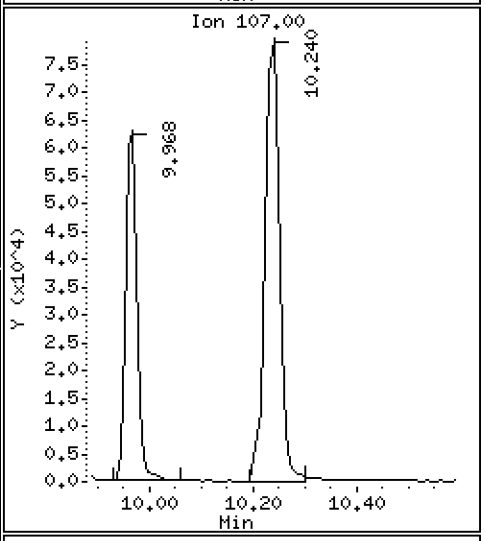
15 4-Methylphenol

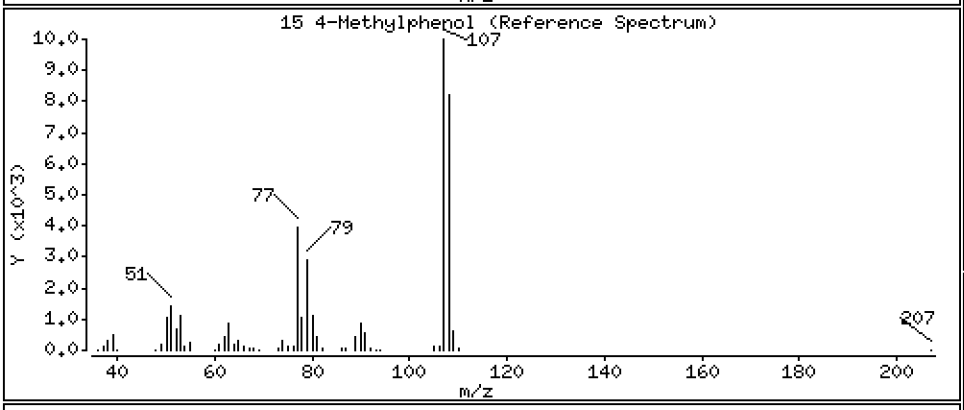
Concentration: 2.656 ug/mL

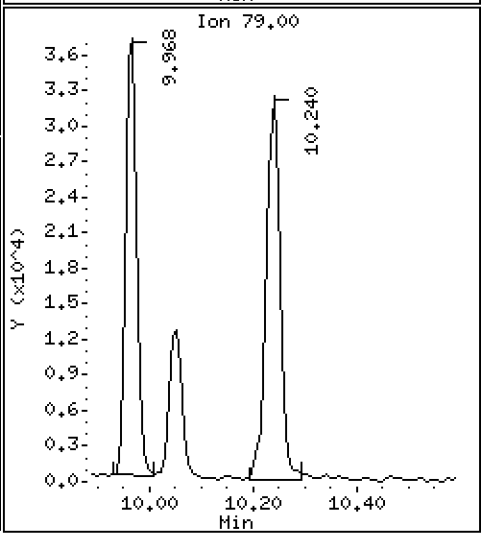


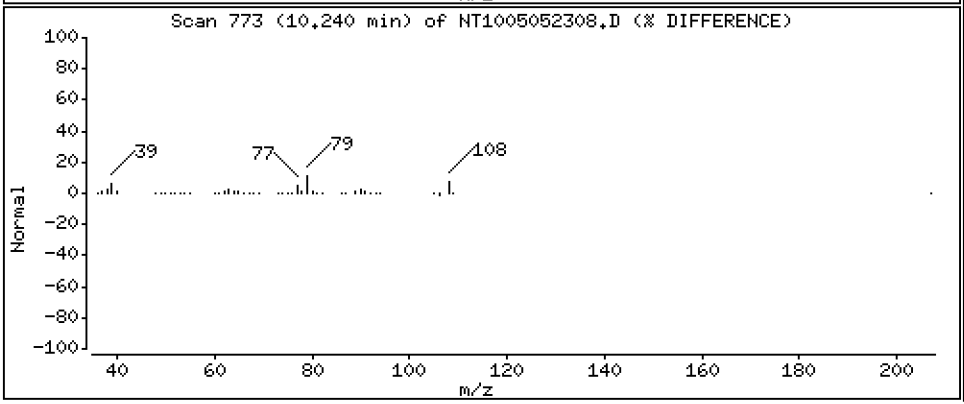












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

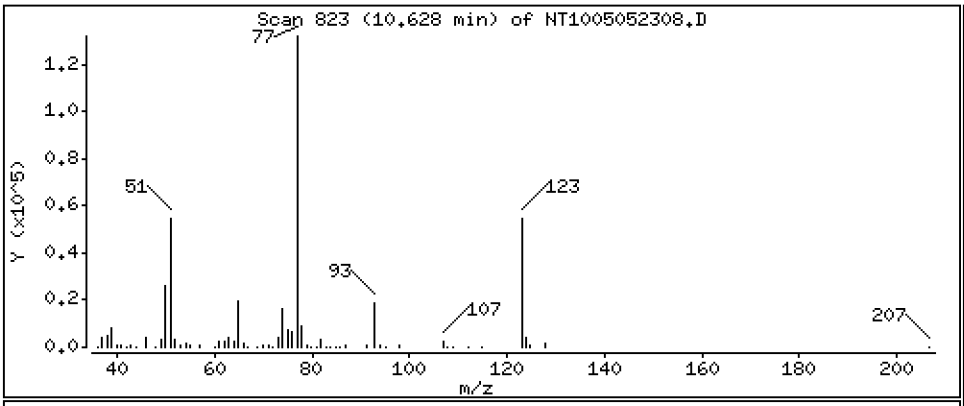
Operator: VTS

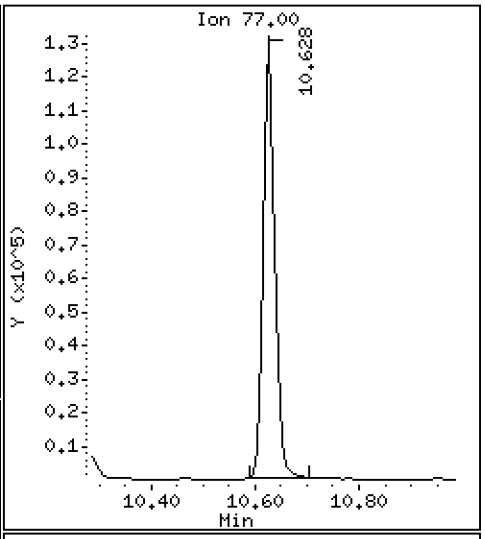
Column phase: ZB-5msi

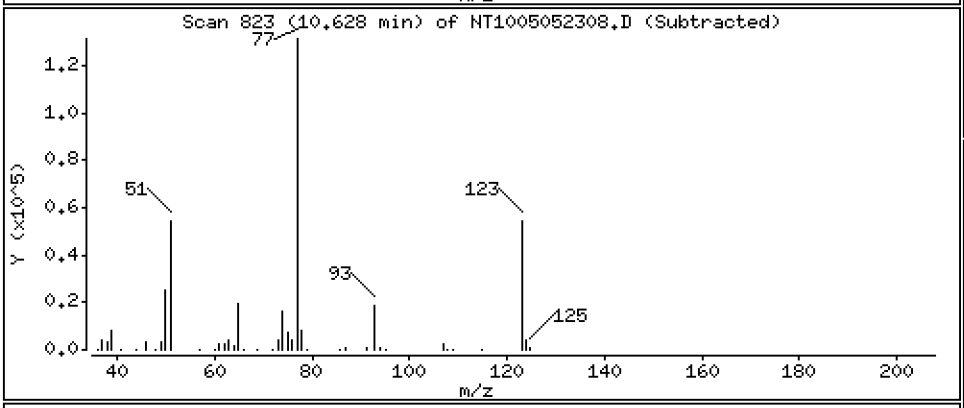
Column diameter: 0.25

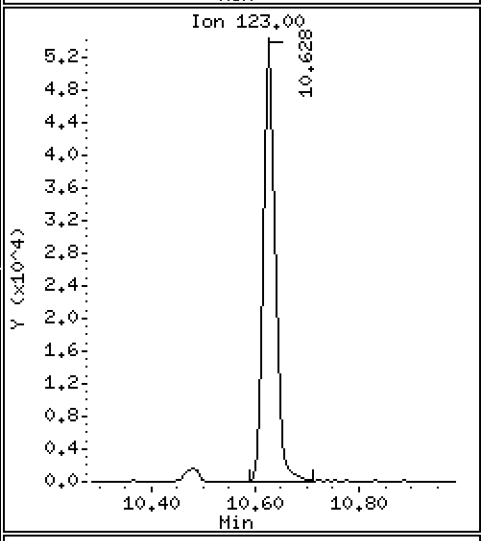
19 Nitrobenzene

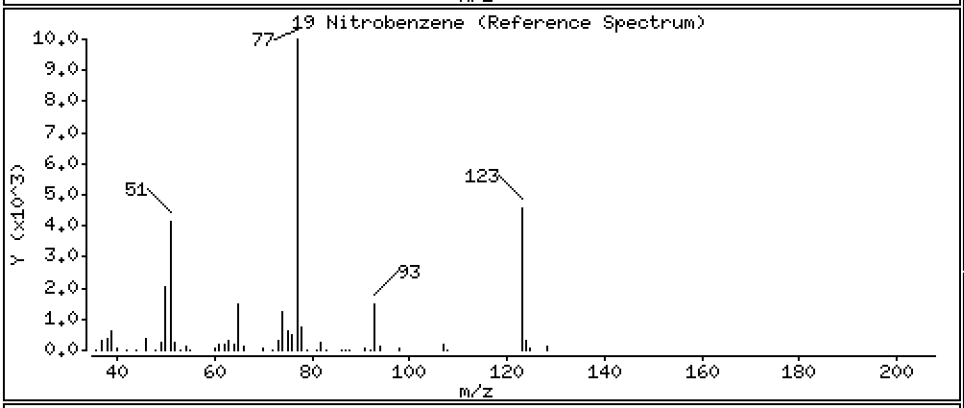
Concentration: 3.229 ug/mL

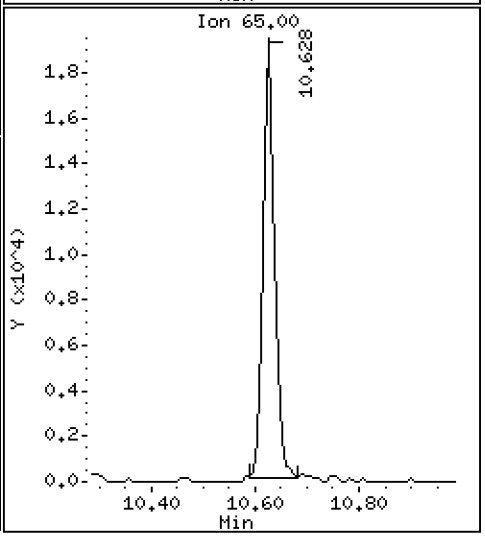


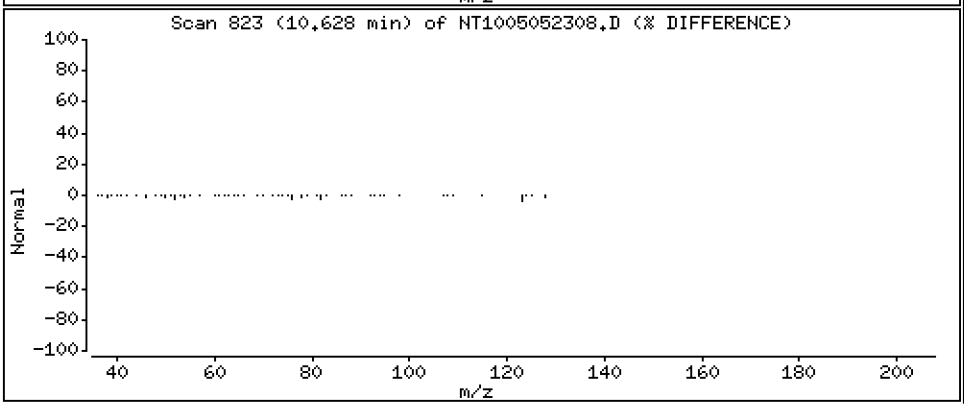












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

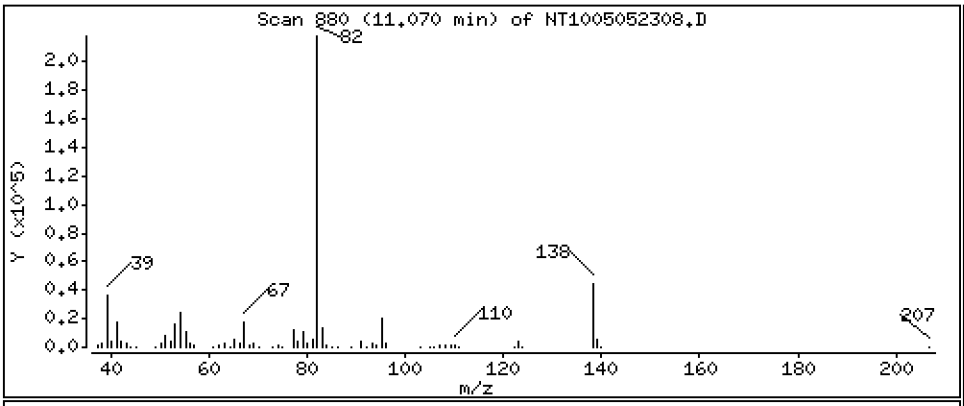
Operator: VTS

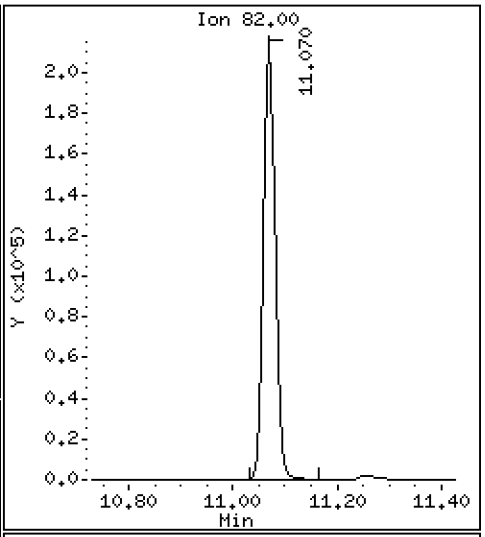
Column phase: ZB-5msi

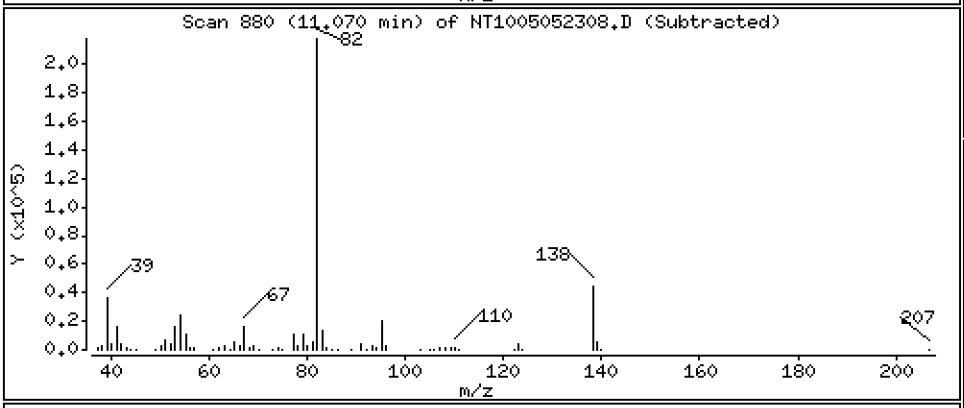
Column diameter: 0.25

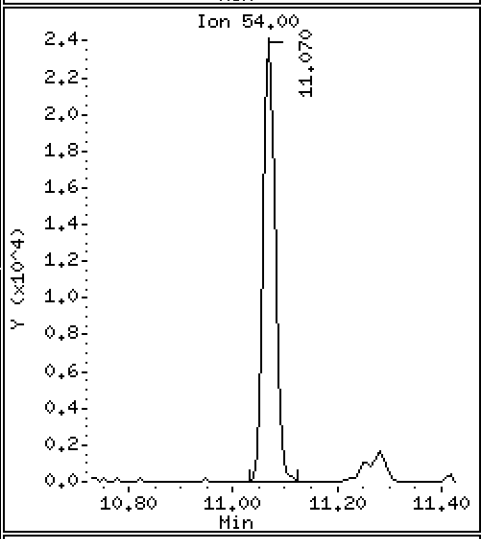
20 Isophorone

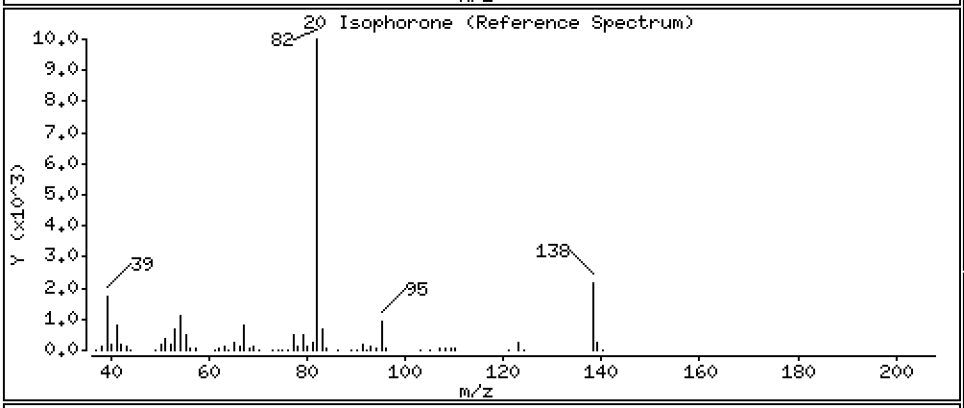
Concentration: 4.996 ug/mL

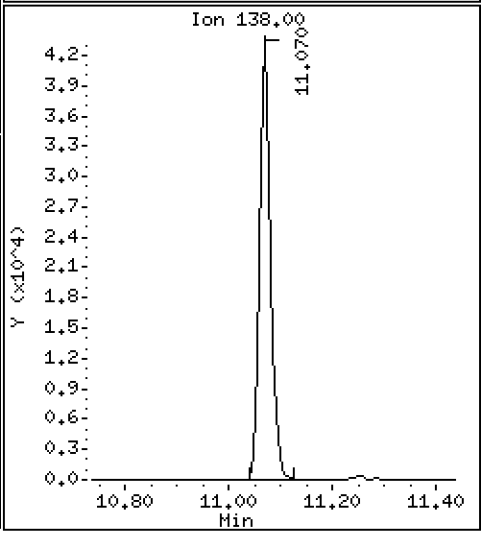


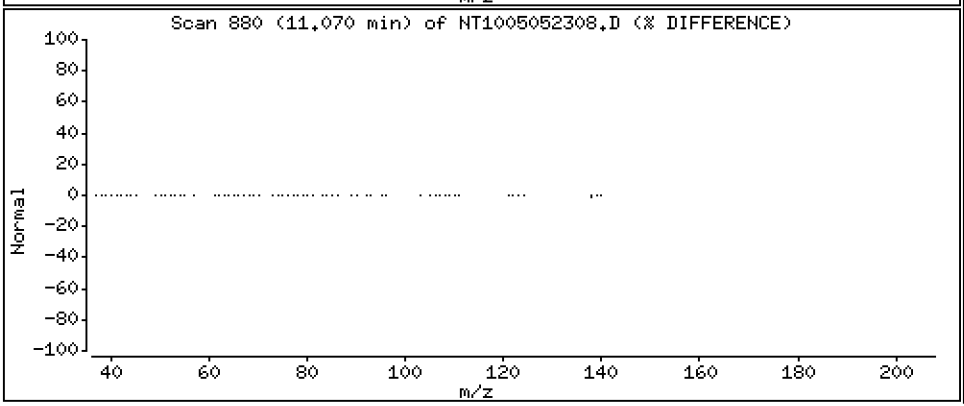












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

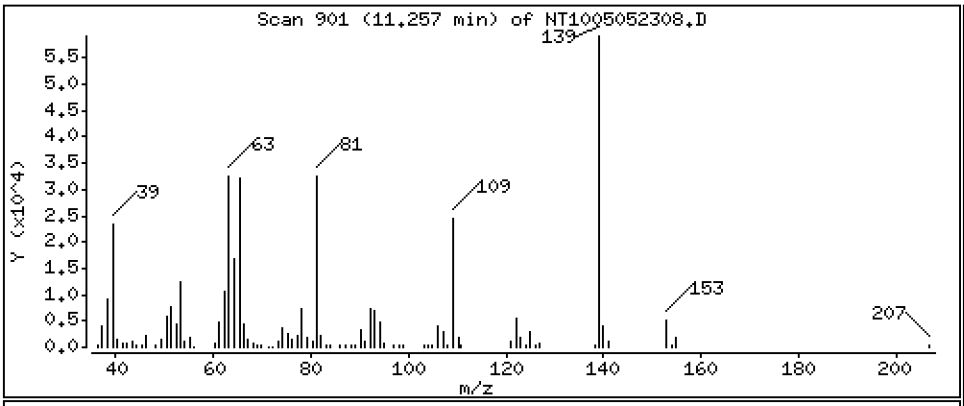
Operator: VTS

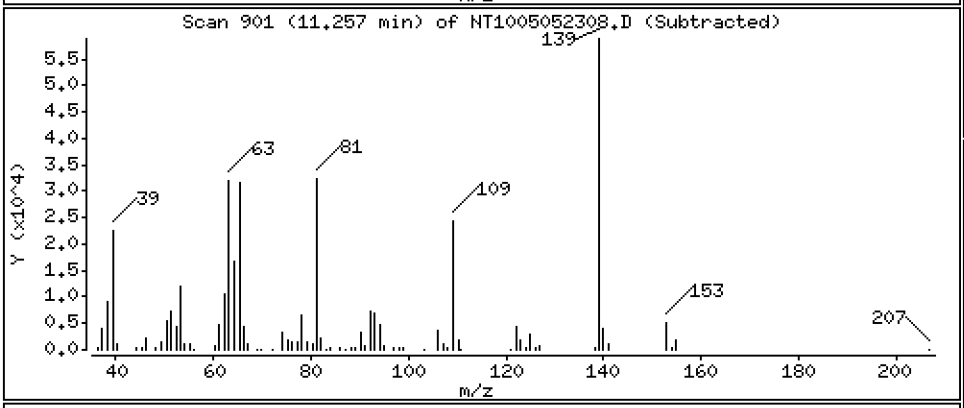
Column phase: ZB-5msi

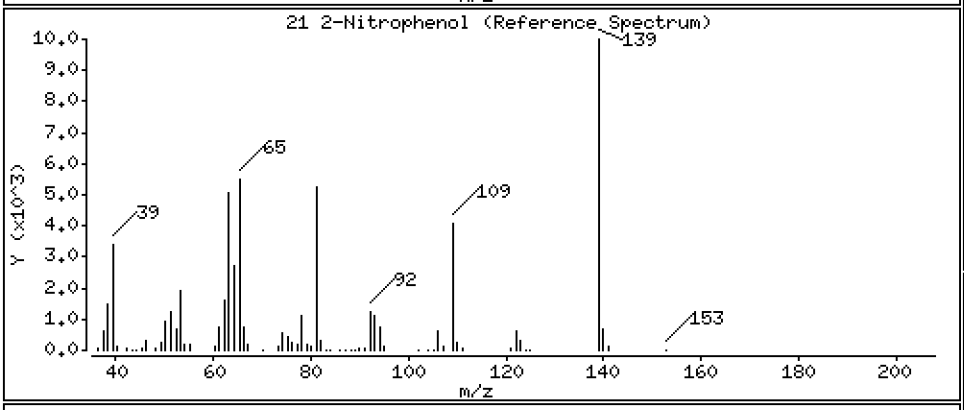
Column diameter: 0.25

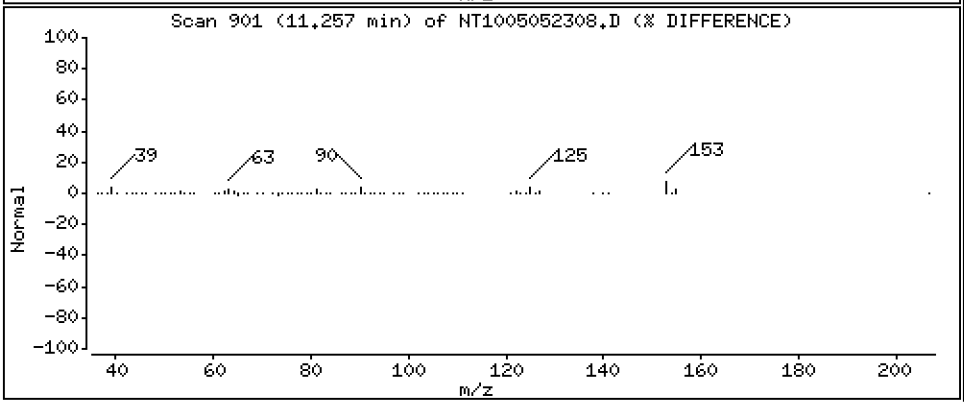
21 2-Nitrophenol

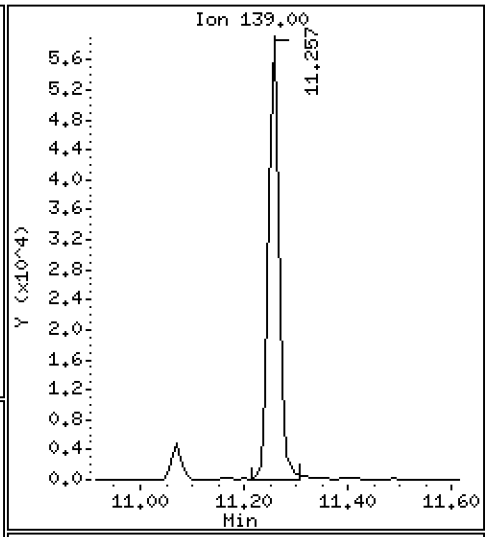
Concentration: 2.642 ug/mL

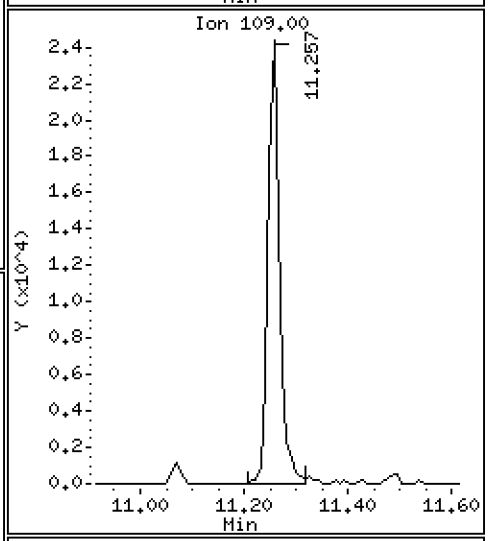


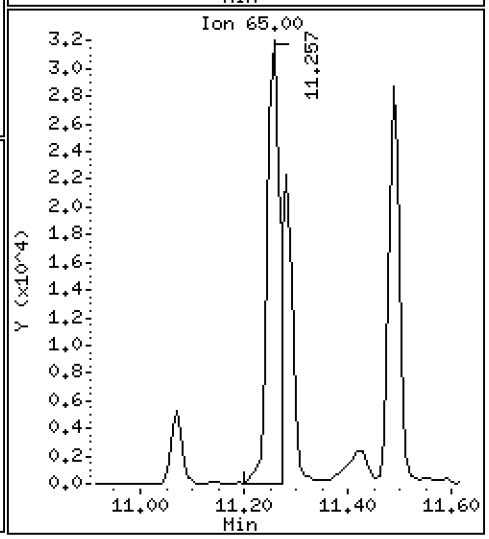












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

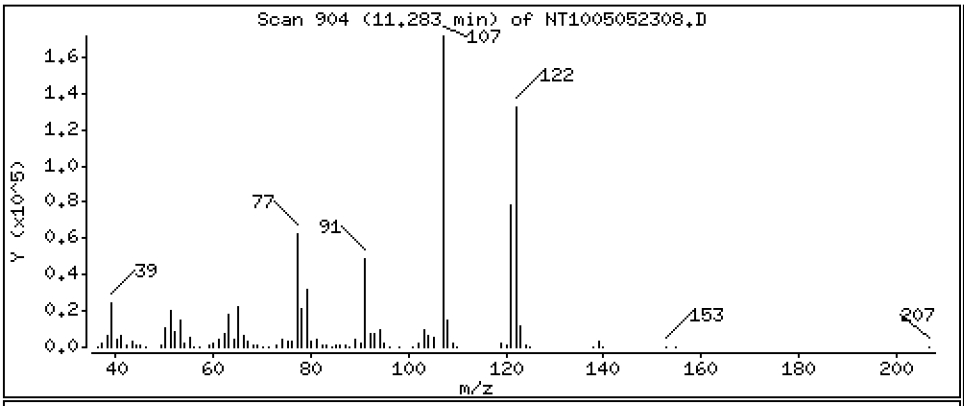
Operator: VTS

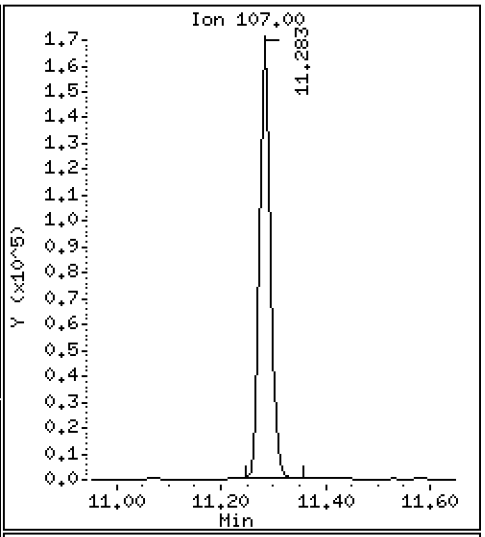
Column phase: ZB-5msi

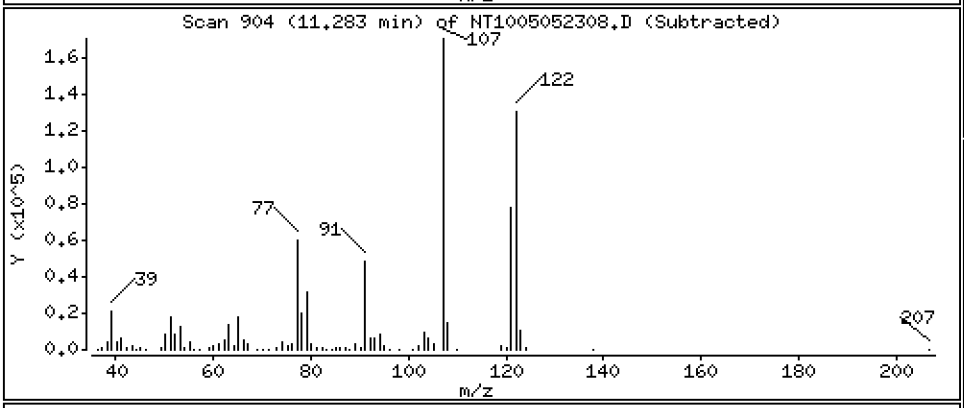
Column diameter: 0.25

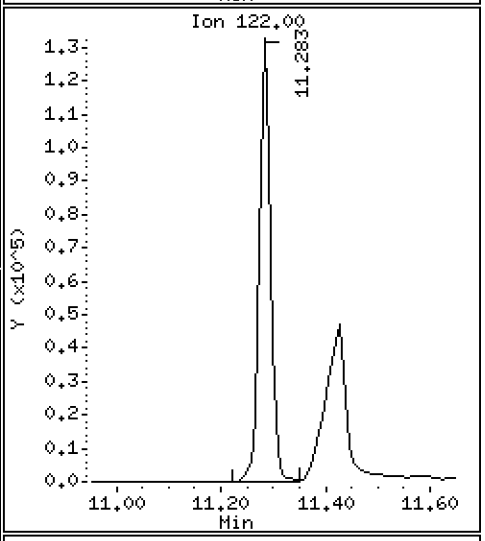
22 2,4-Dimethylphenol

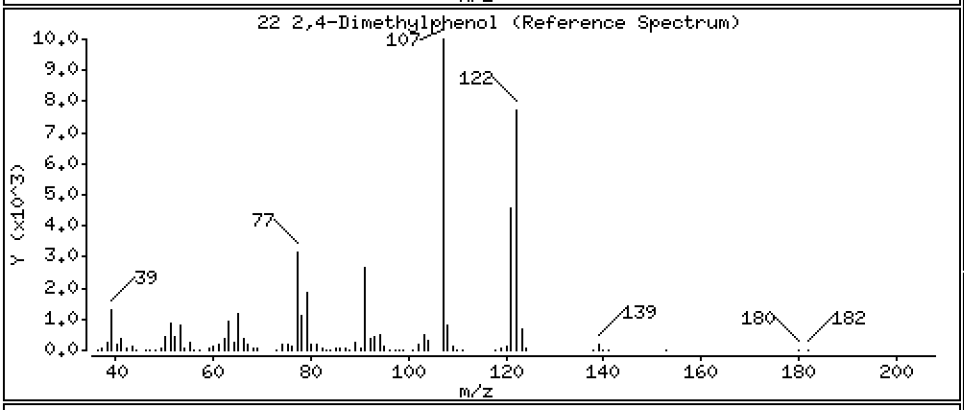
Concentration: 4.095 ug/mL

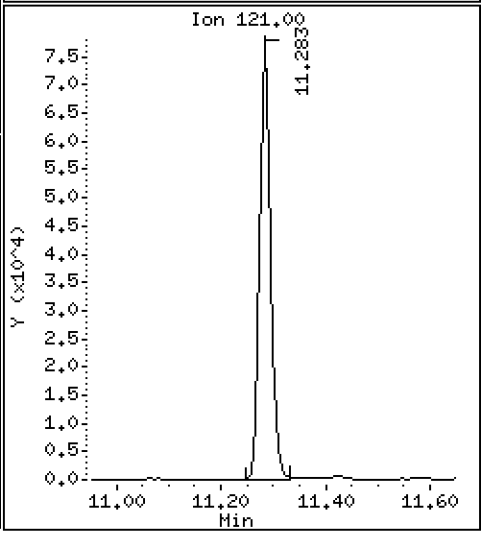


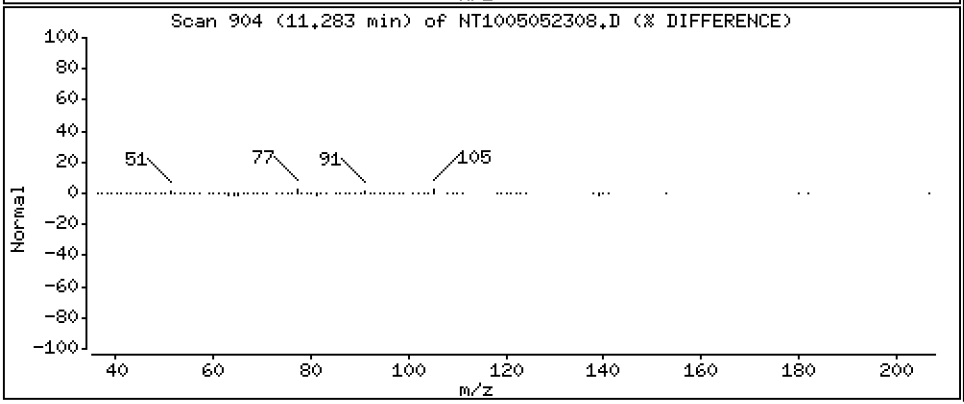












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

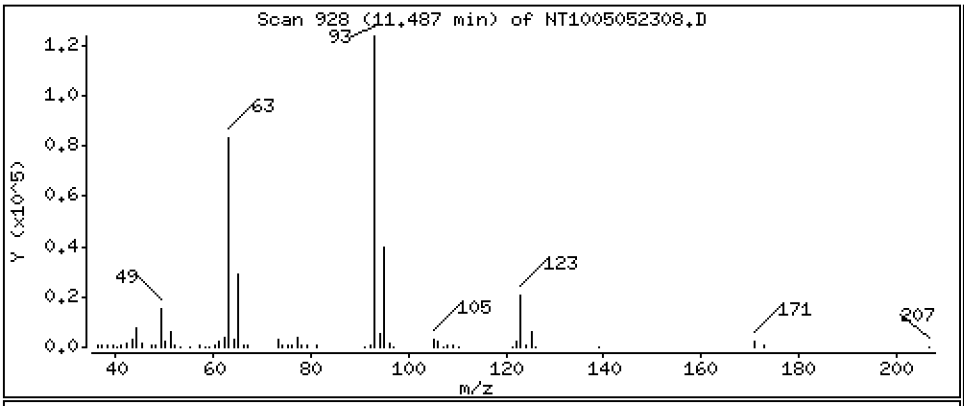
Operator: VTS

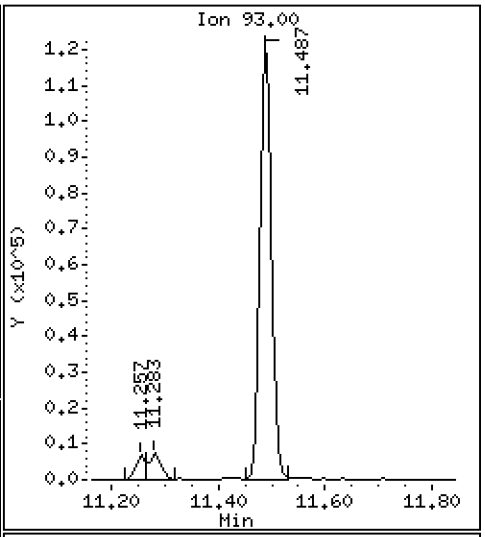
Column phase: ZB-5msi

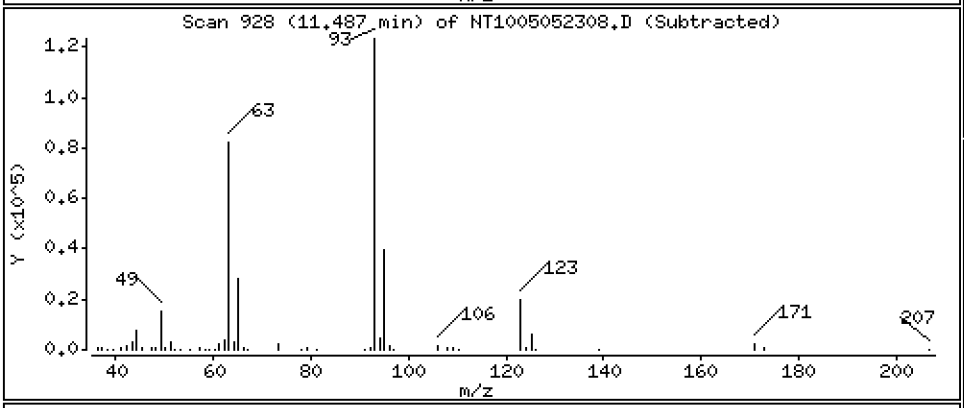
Column diameter: 0.25

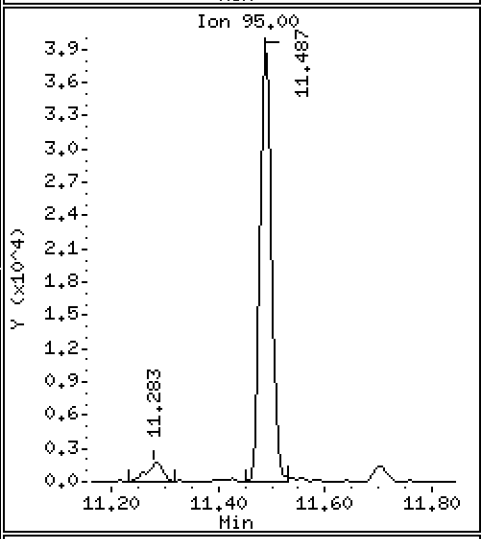
23 Bis(2-Chloroethoxy)methane

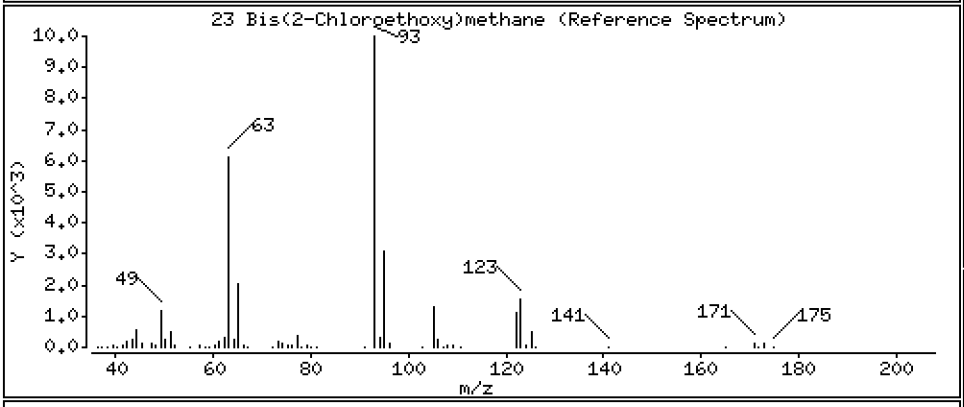
Concentration: 4.017 ug/mL

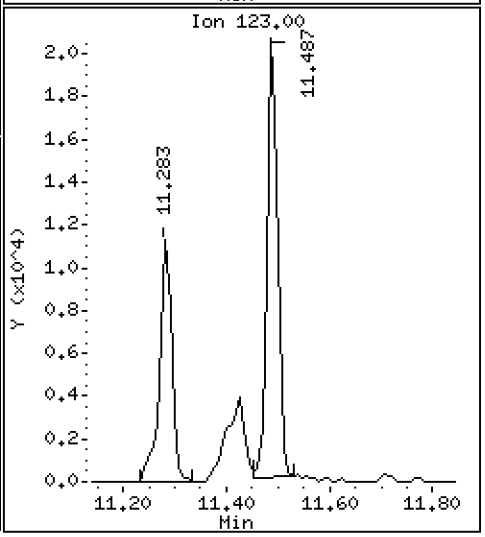


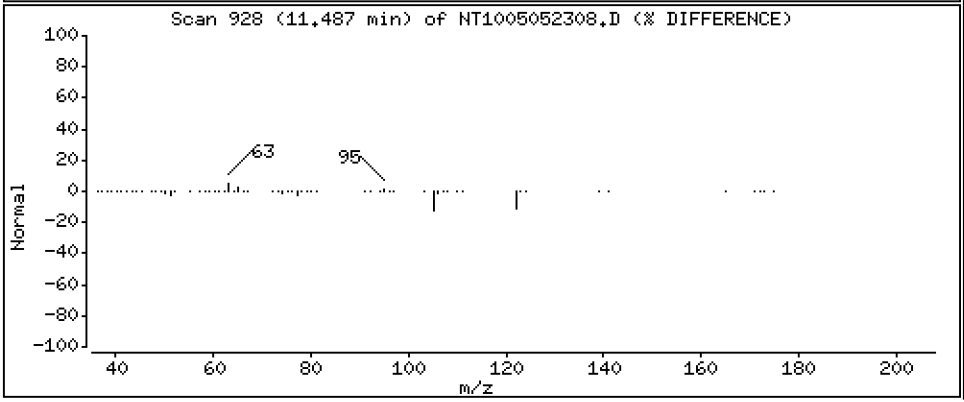












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

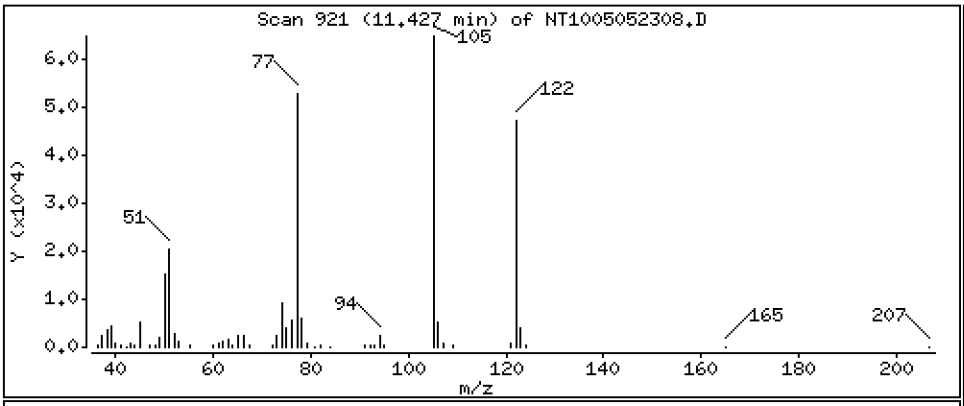
Operator: VTS

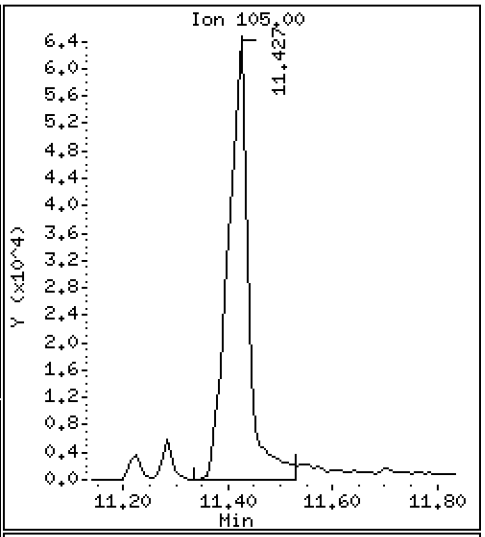
Column phase: ZB-5msi

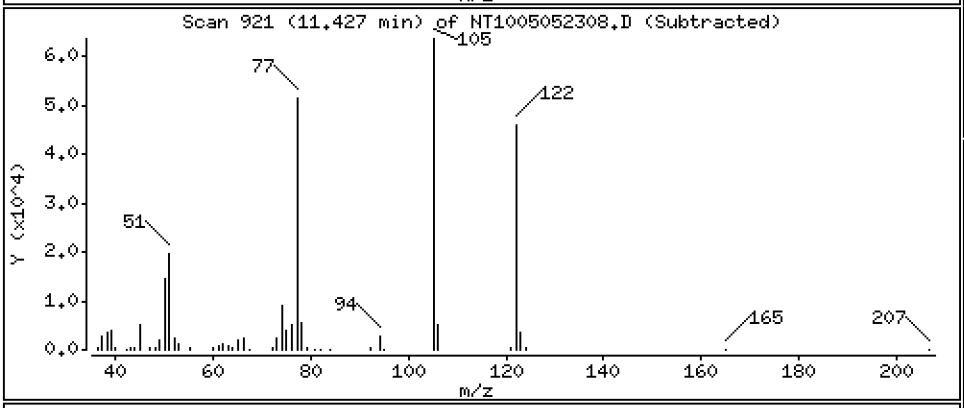
Column diameter: 0.25

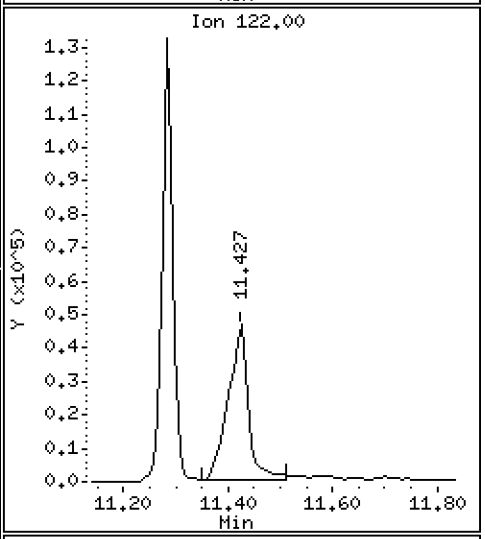
24 Benzoic acid

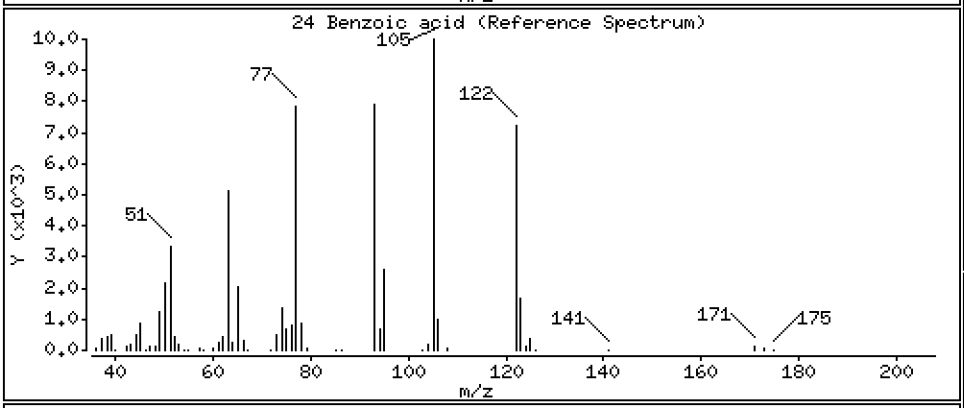
Concentration: 4.402 ug/mL

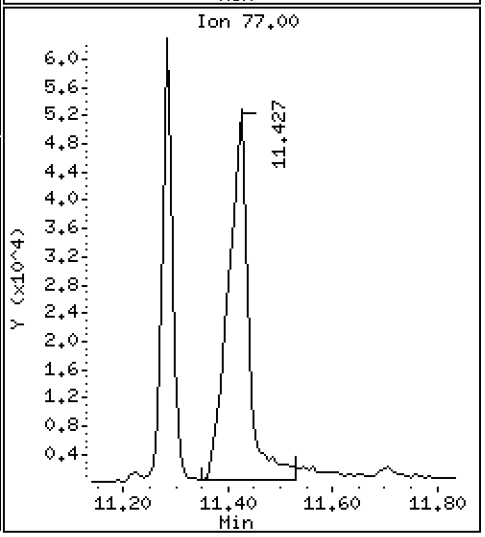


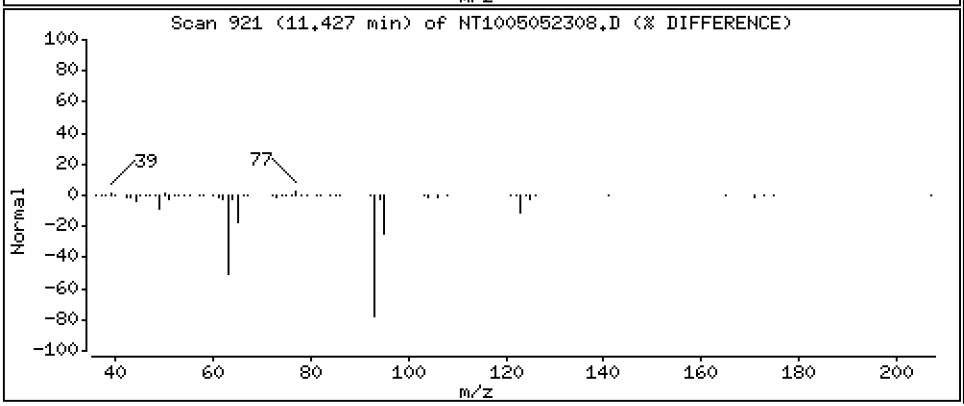












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

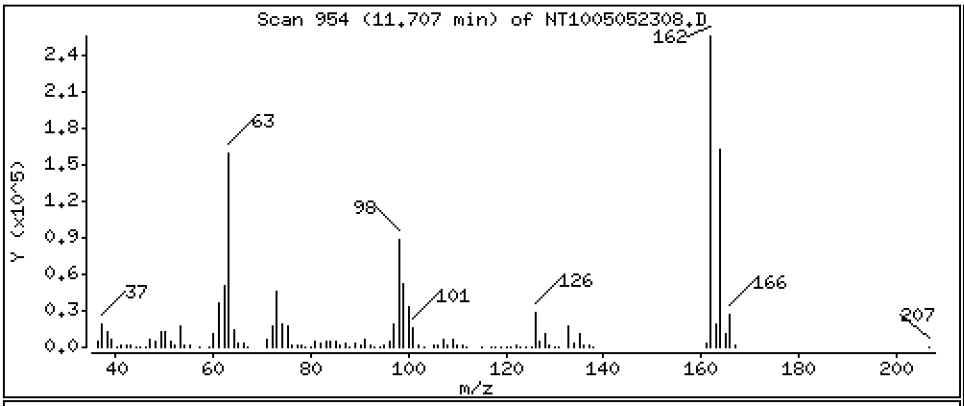
Operator: VTS

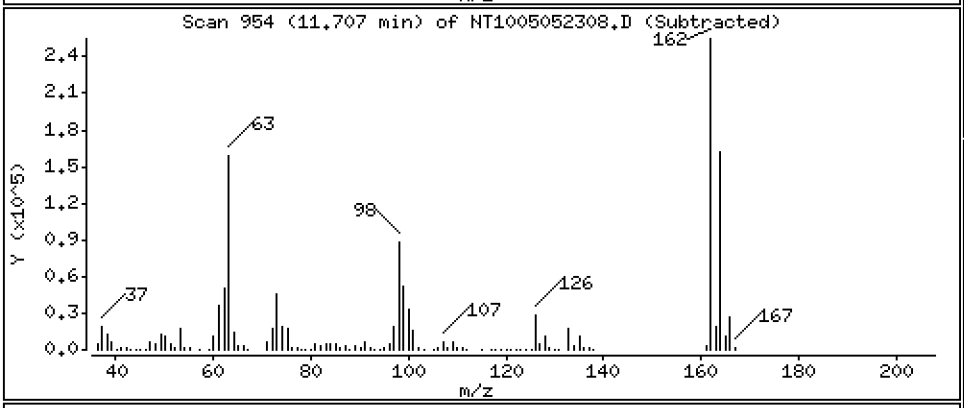
Column phase: ZB-5msi

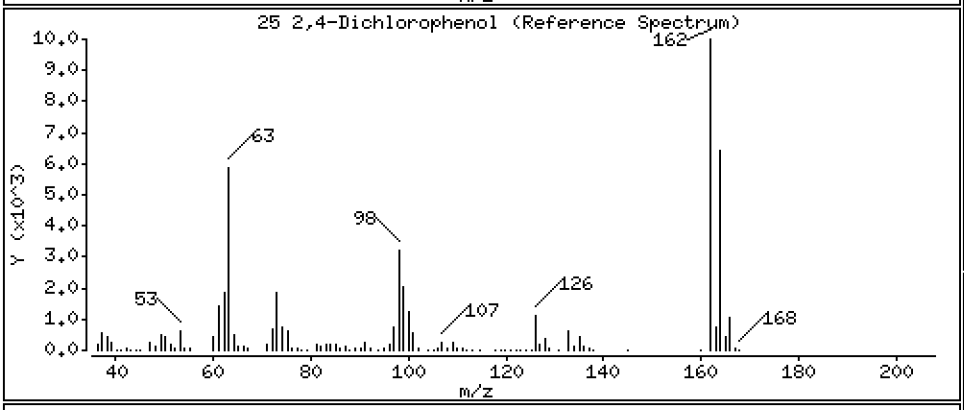
Column diameter: 0.25

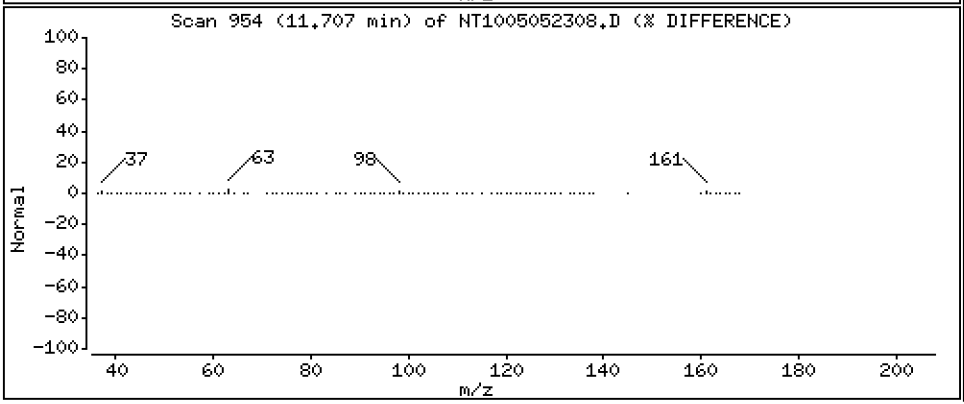
25 2,4-Dichlorophenol

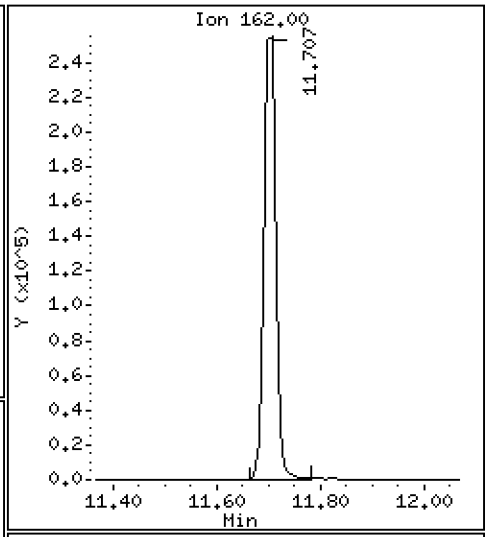
Concentration: 8.815 ug/mL

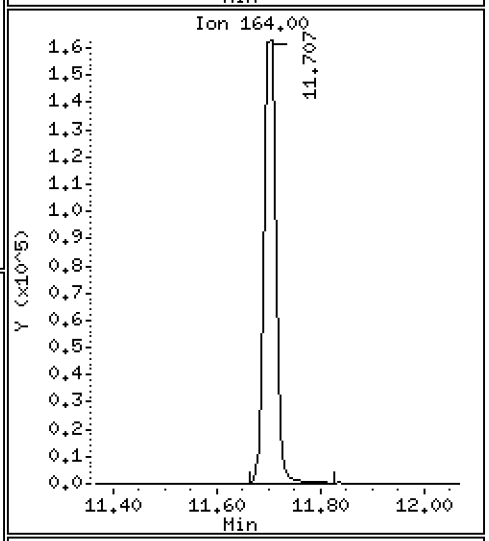


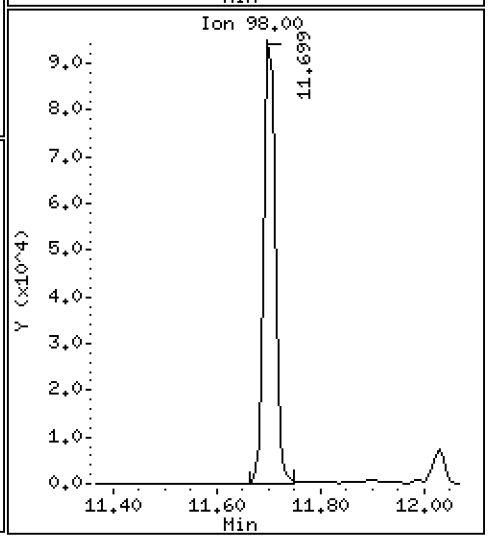












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

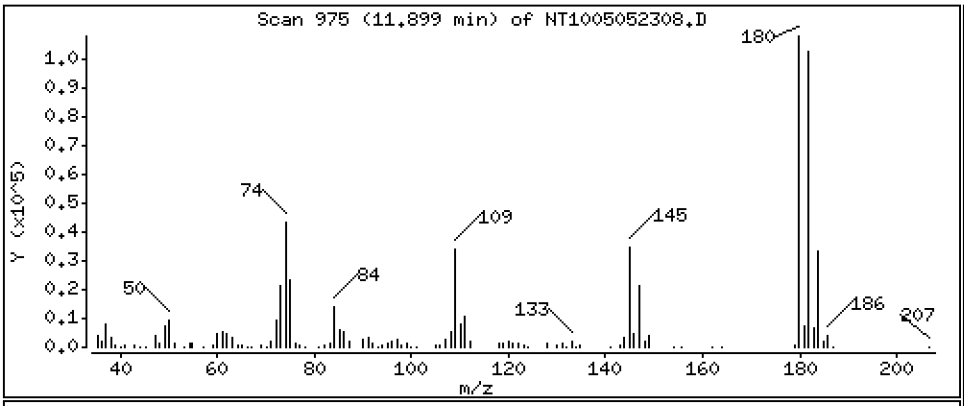
Operator: VTS

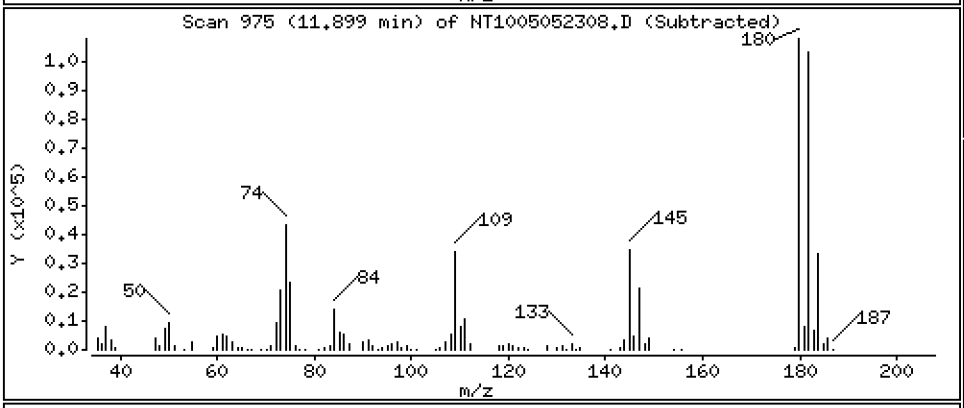
Column phase: ZB-5msi

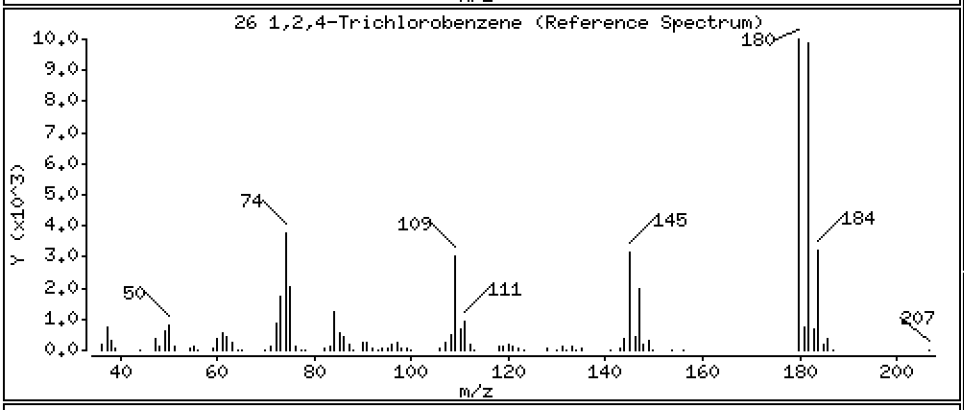
Column diameter: 0.25

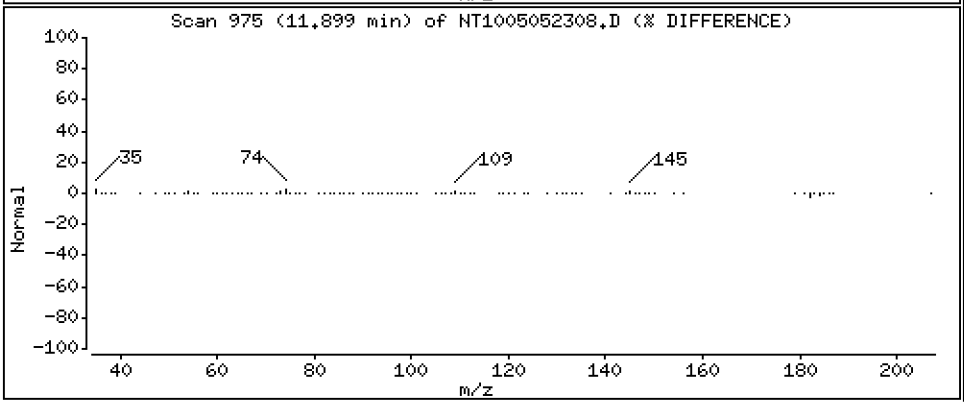
26 1,2,4-Trichlorobenzene

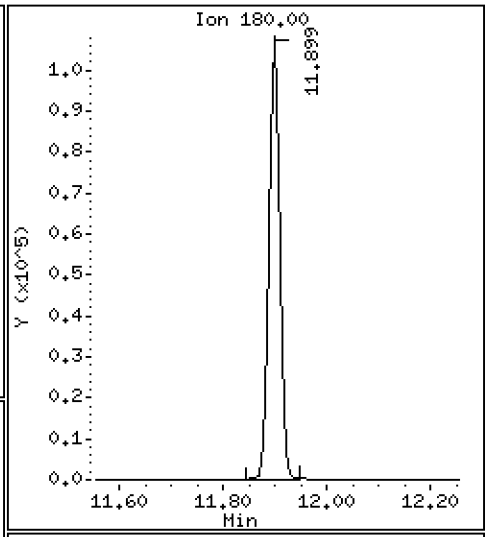
Concentration: 2.948 ug/mL

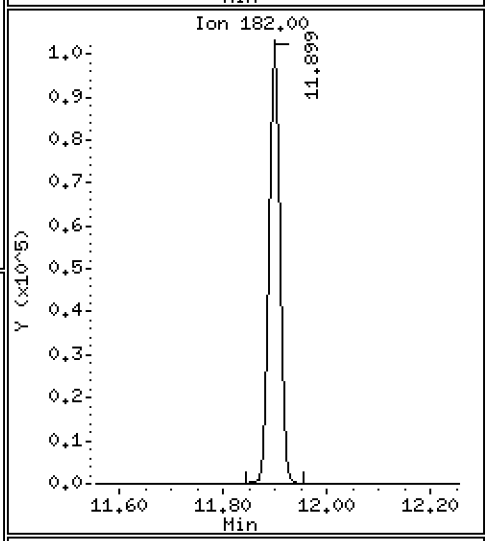


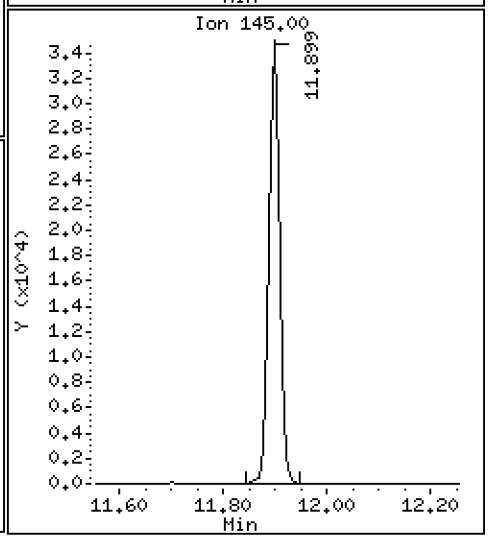












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

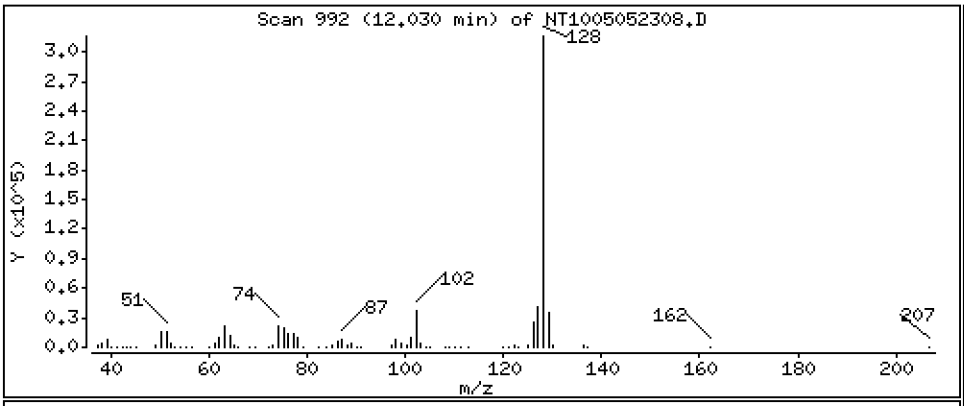
Operator: VTS

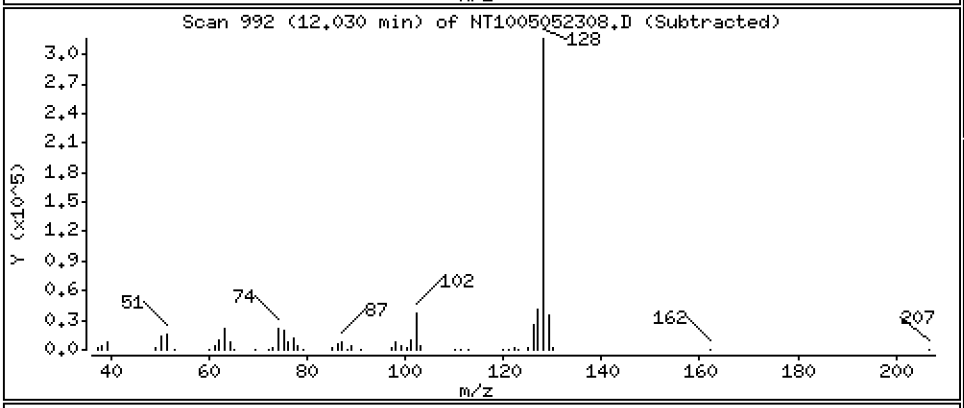
Column phase: ZB-5msi

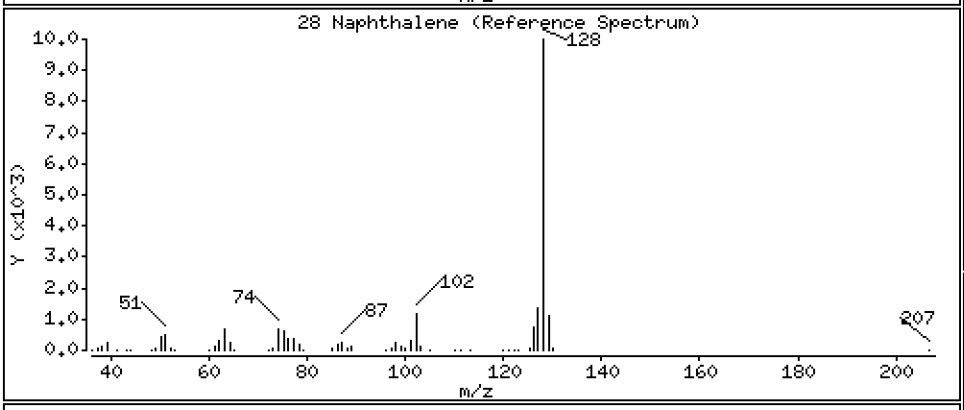
Column diameter: 0.25

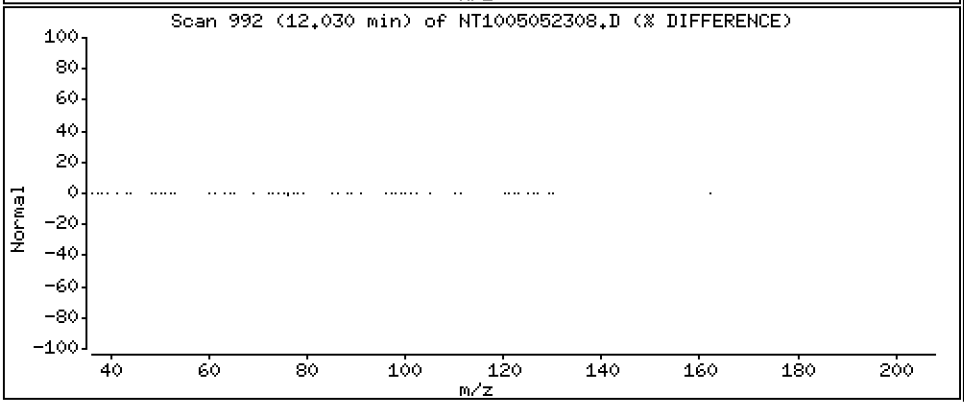
28 Naphthalene

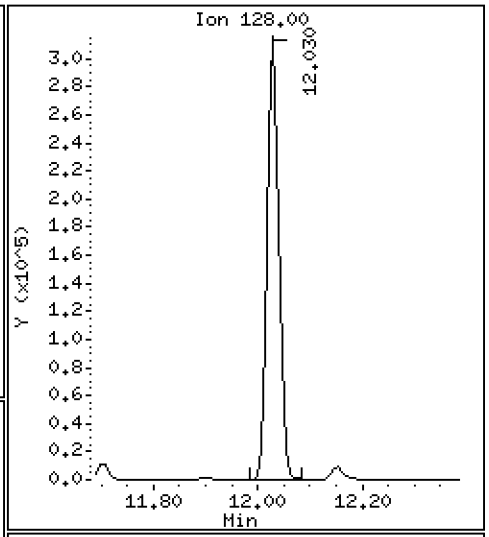
Concentration: 3.073 ug/mL

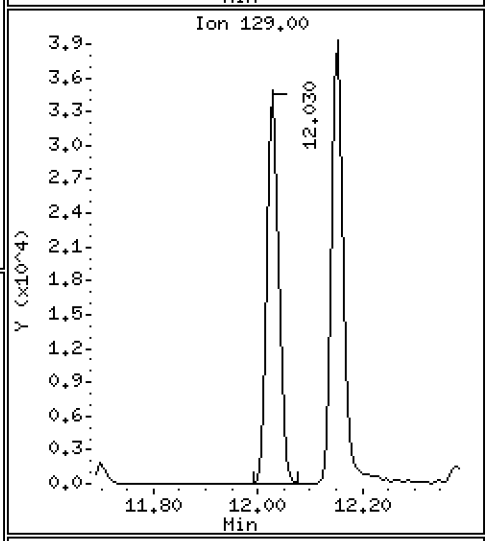


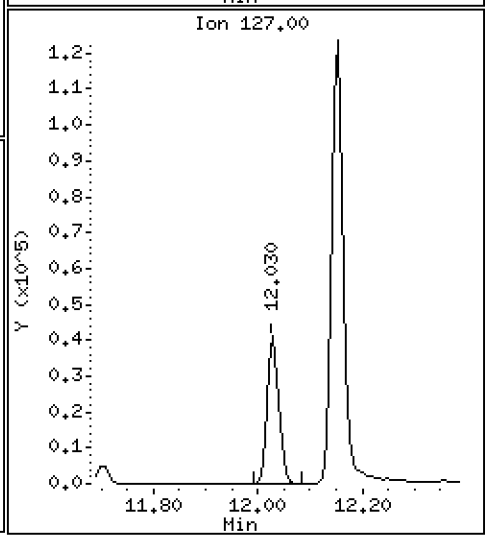












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

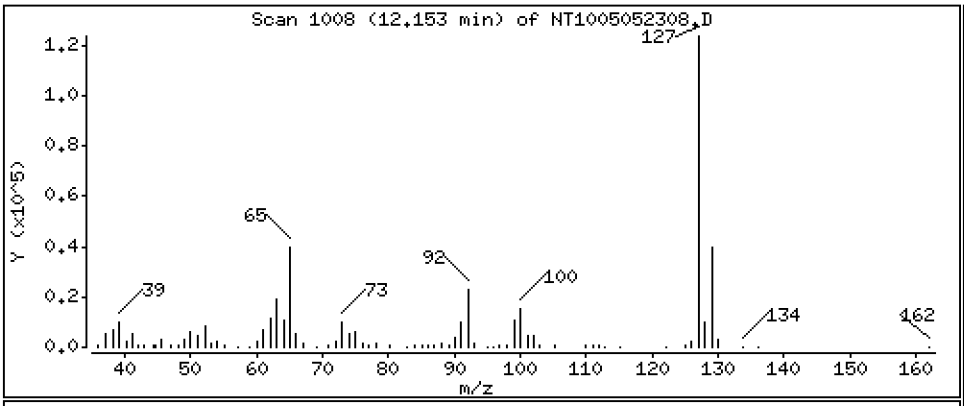
Operator: VTS

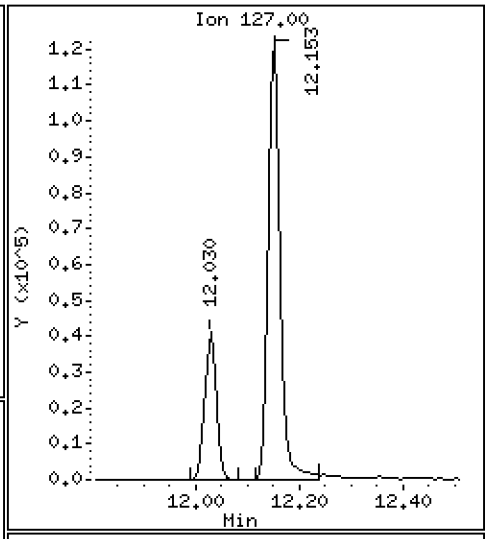
Column phase: ZB-5msi

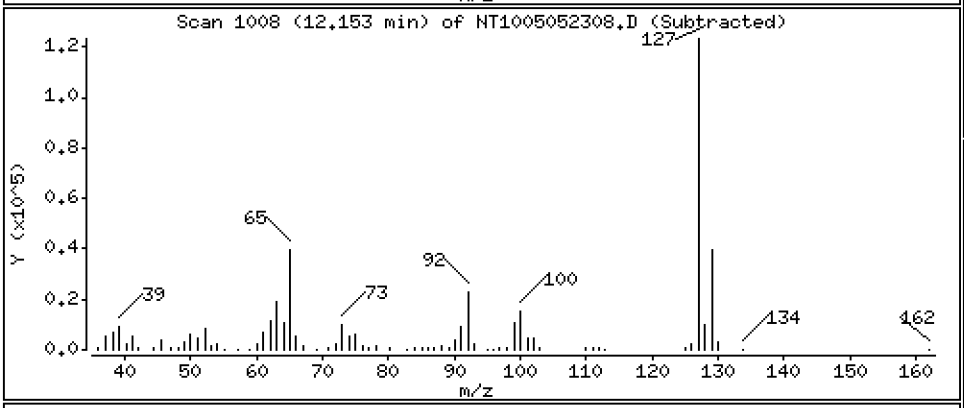
Column diameter: 0.25

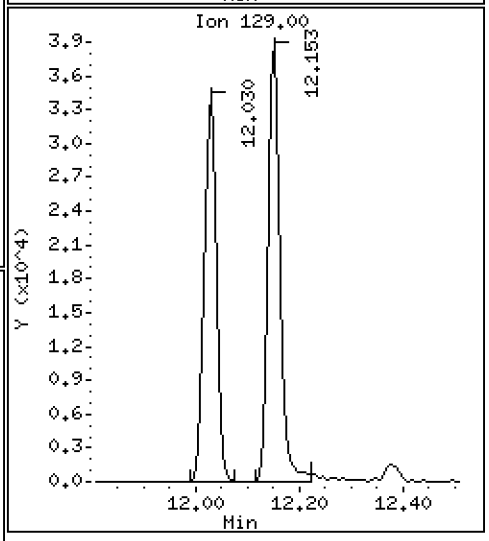
29 4-Chloroaniline

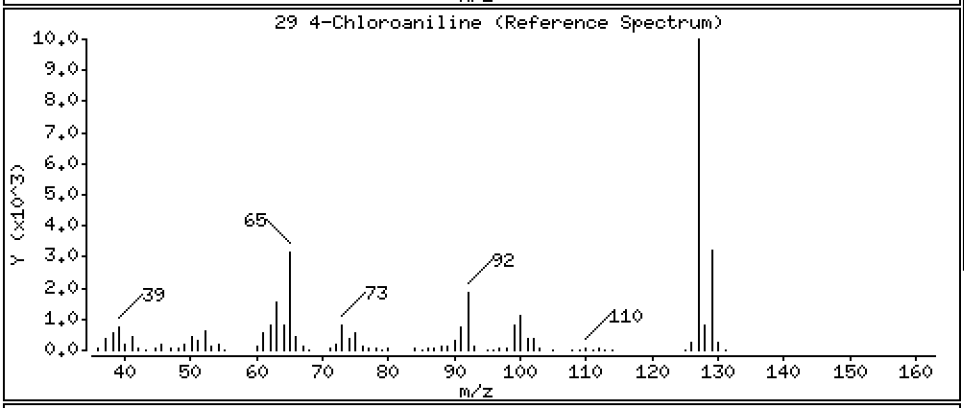
Concentration: 3.578 ug/mL

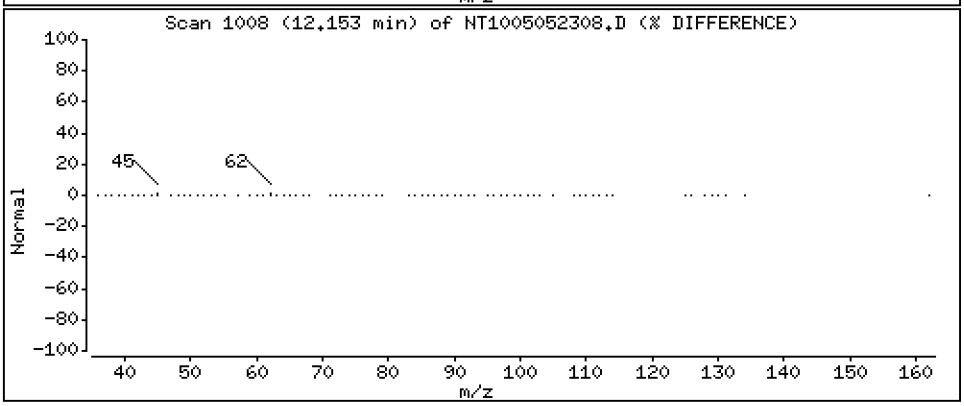












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

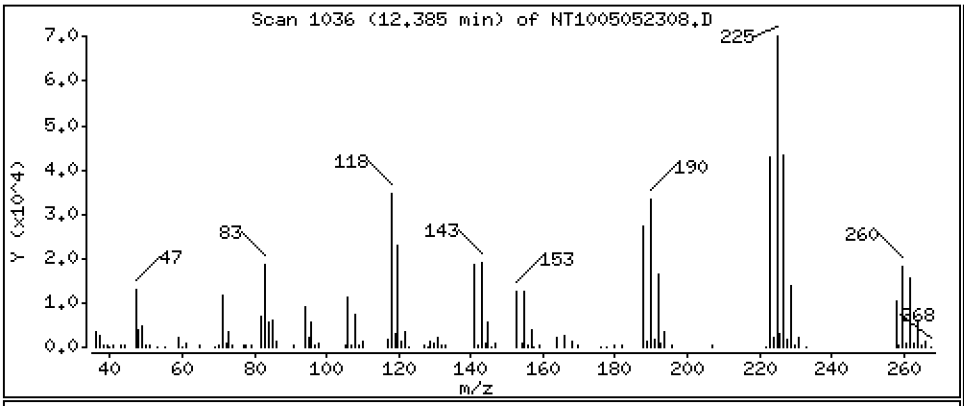
Operator: VTS

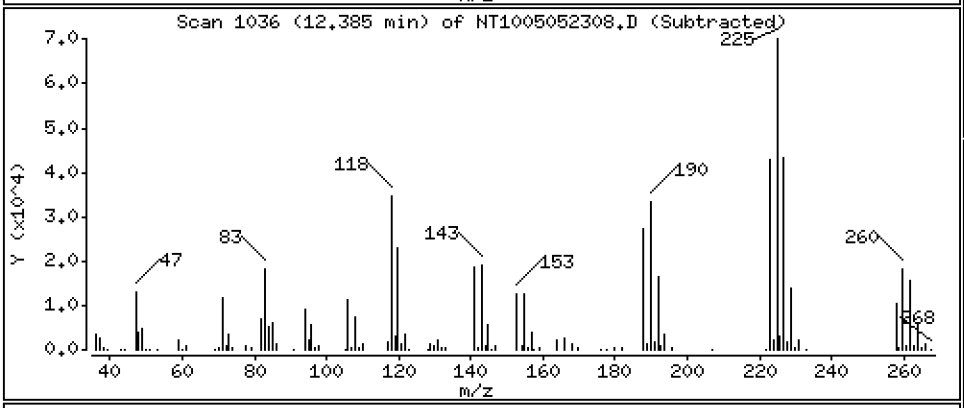
Column phase: ZB-5msi

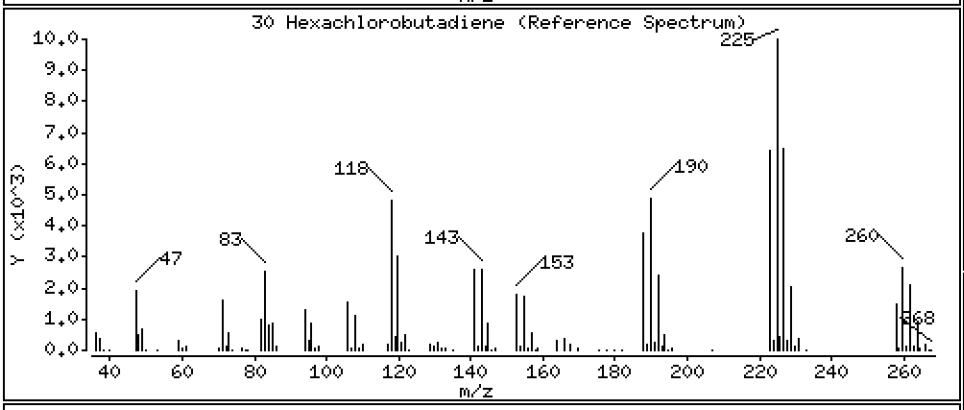
Column diameter: 0.25

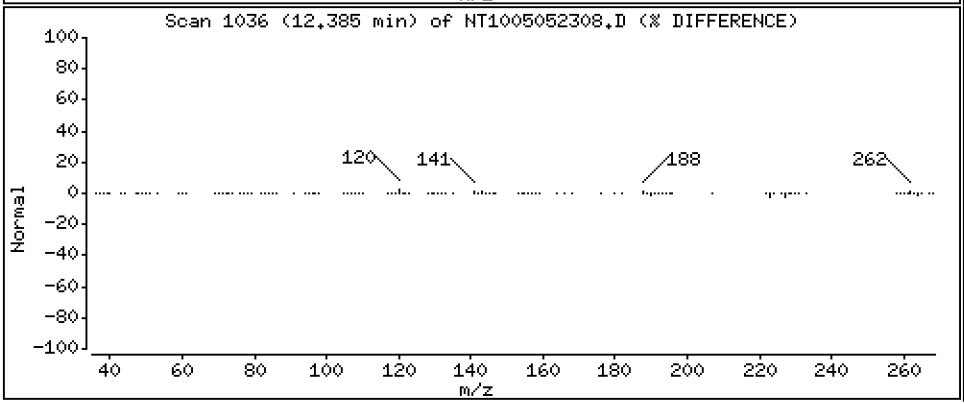
30 Hexachlorobutadiene

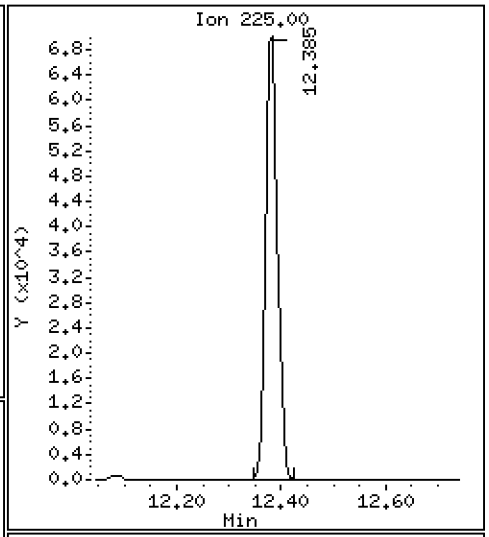
Concentration: 3.027 ug/mL

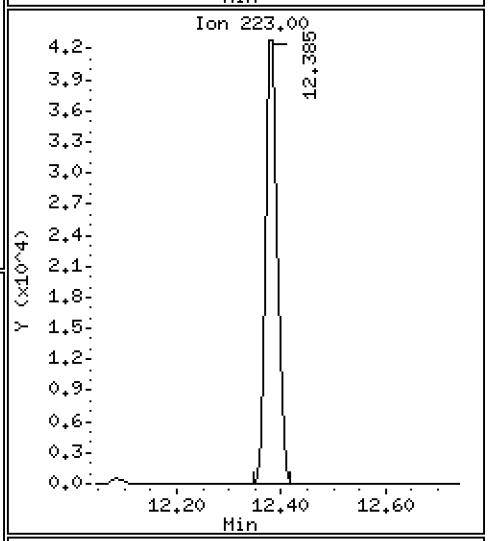


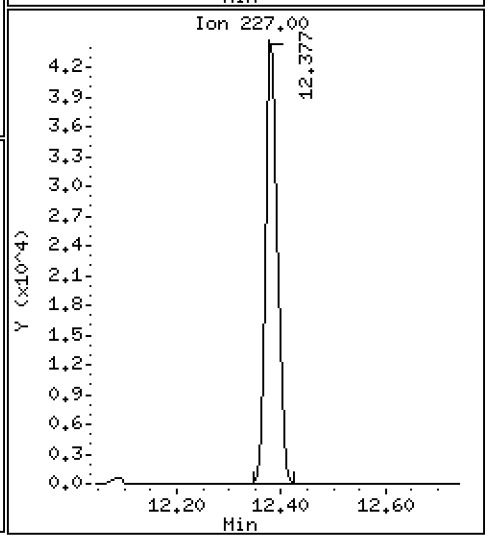












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

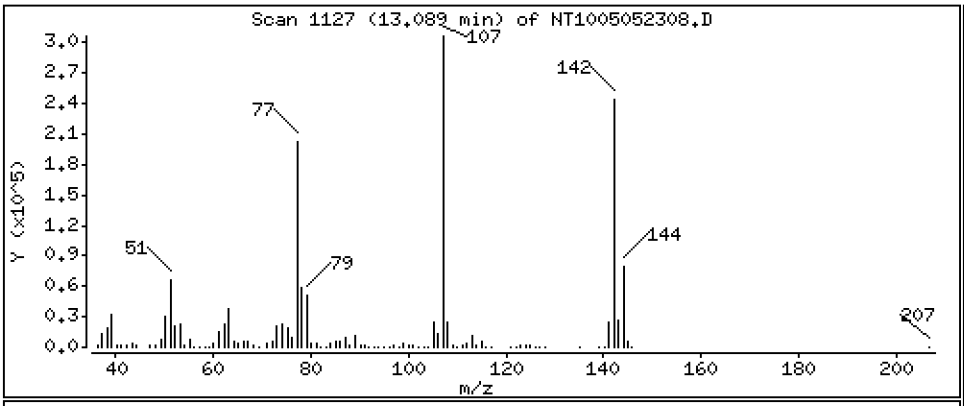
Operator: VTS

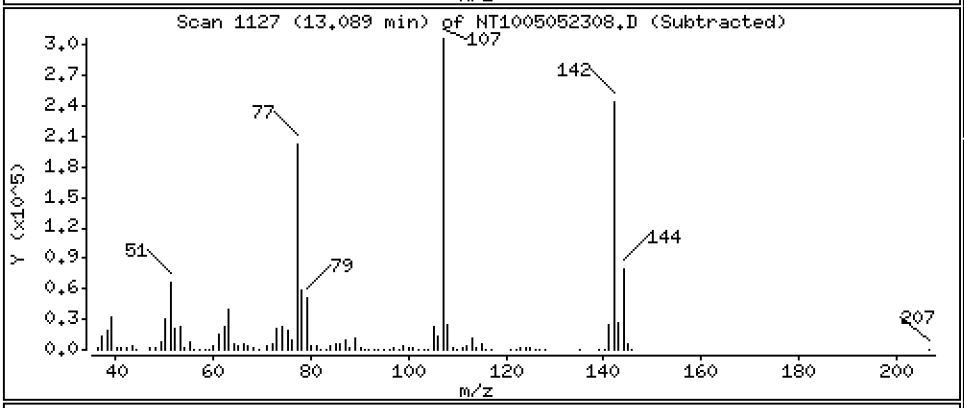
Column phase: ZB-5msi

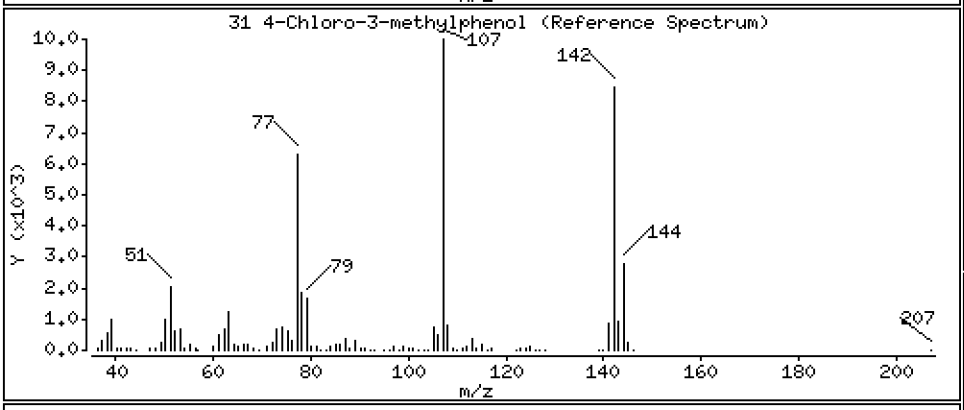
Column diameter: 0.25

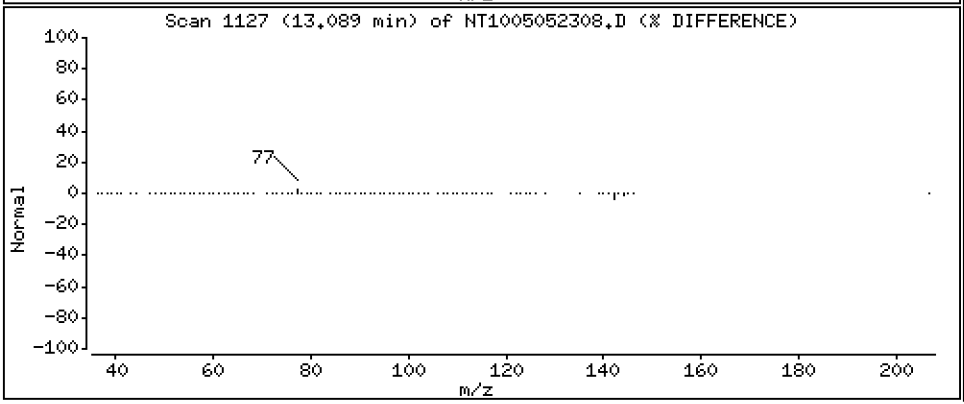
31 4-Chloro-3-methylphenol

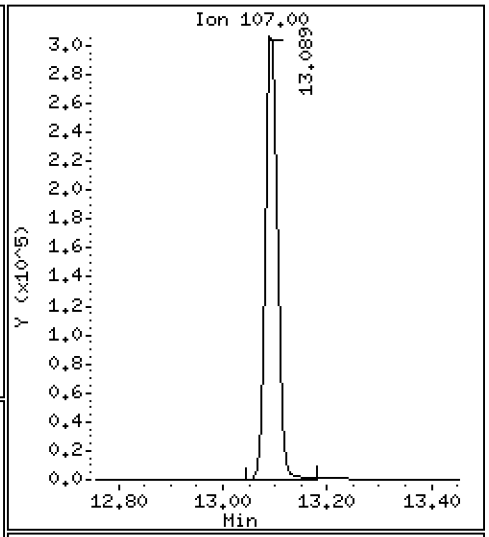
Concentration: 9.402 ug/mL

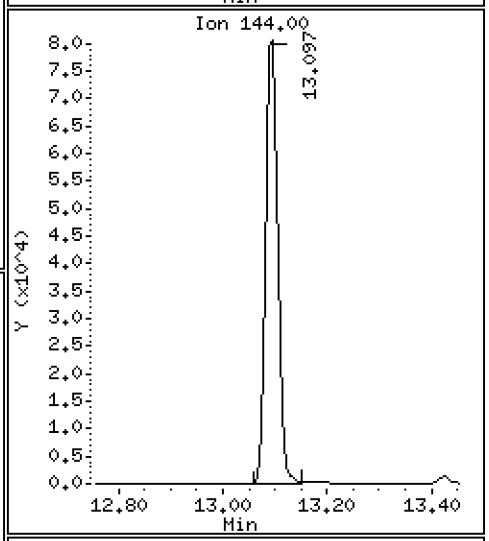


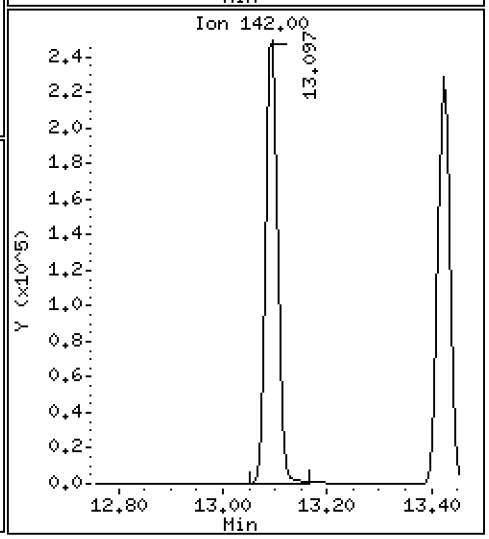












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

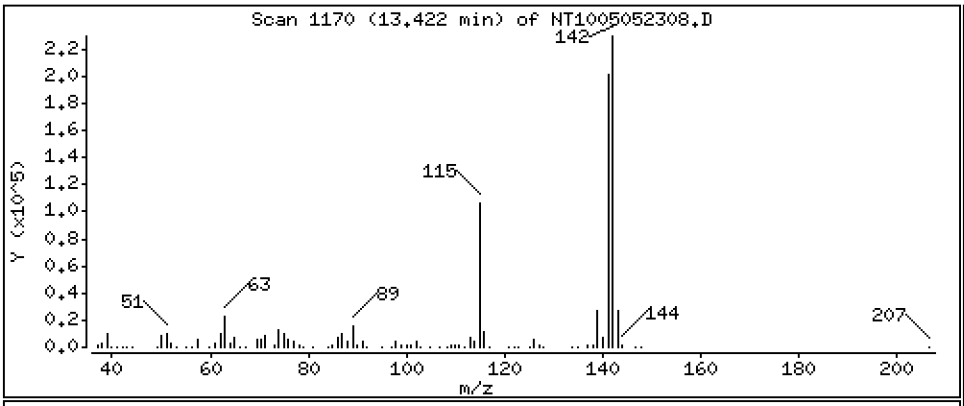
Operator: VTS

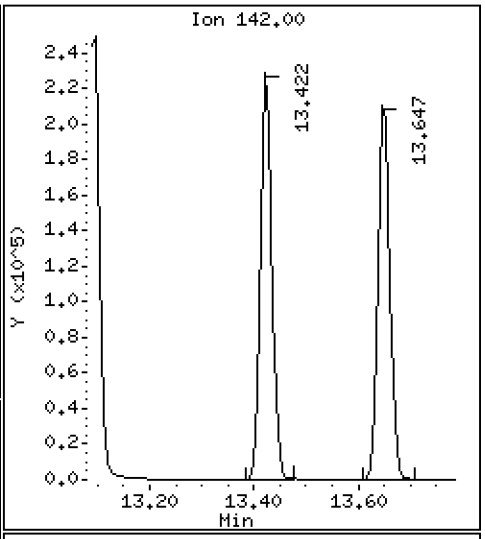
Column phase: ZB-5msi

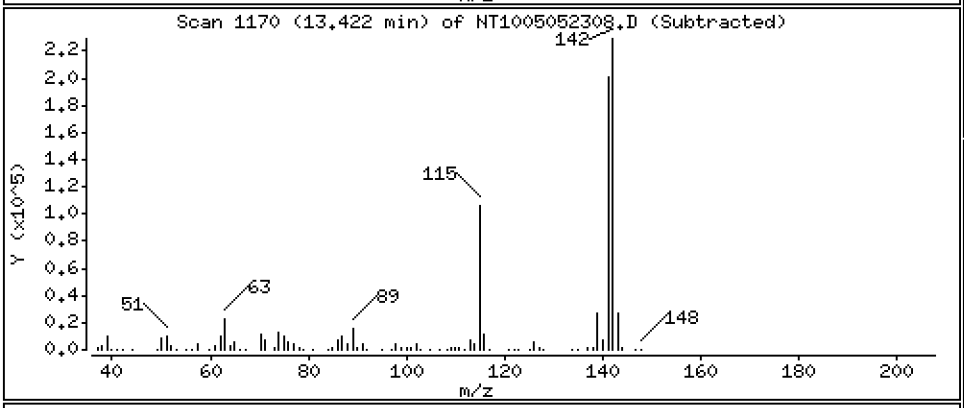
Column diameter: 0.25

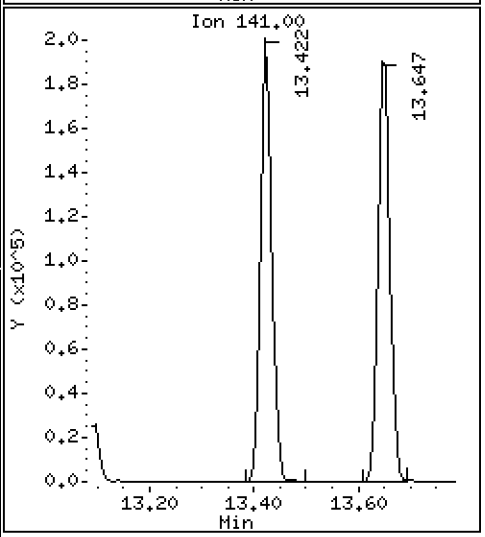
32 2-Methylnaphthalene

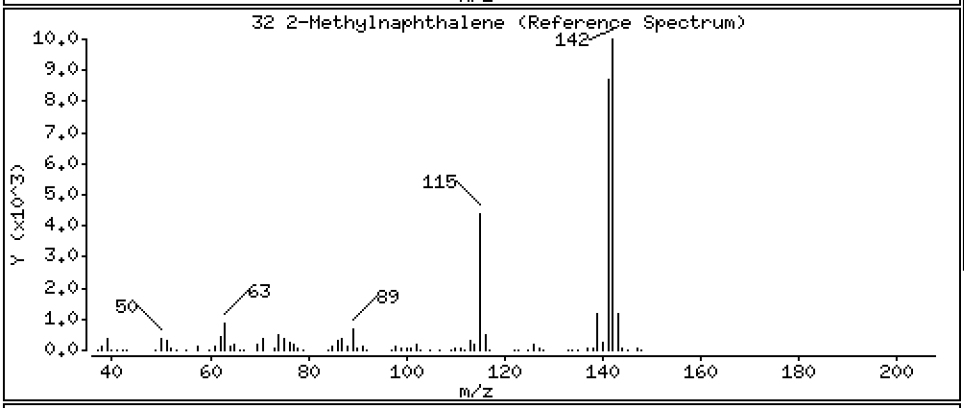
Concentration: 3.000 ug/mL

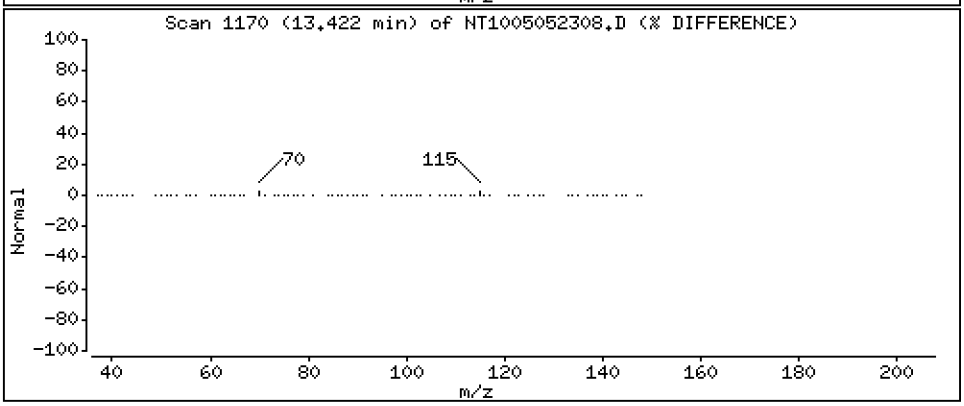












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

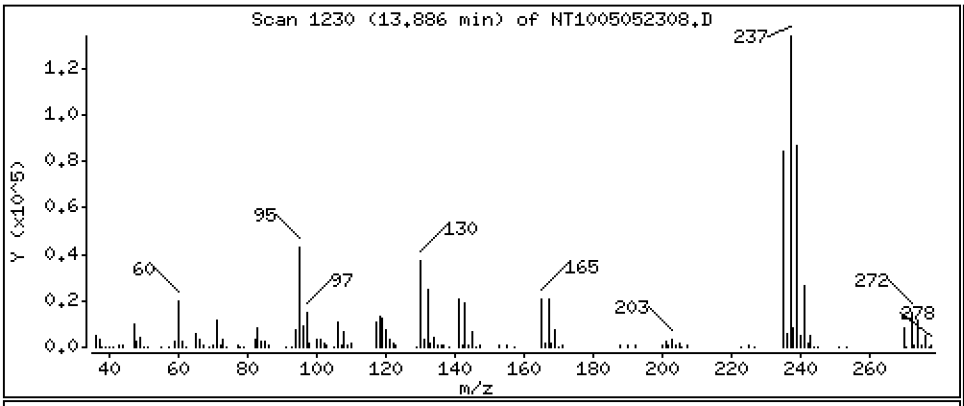
Operator: VTS

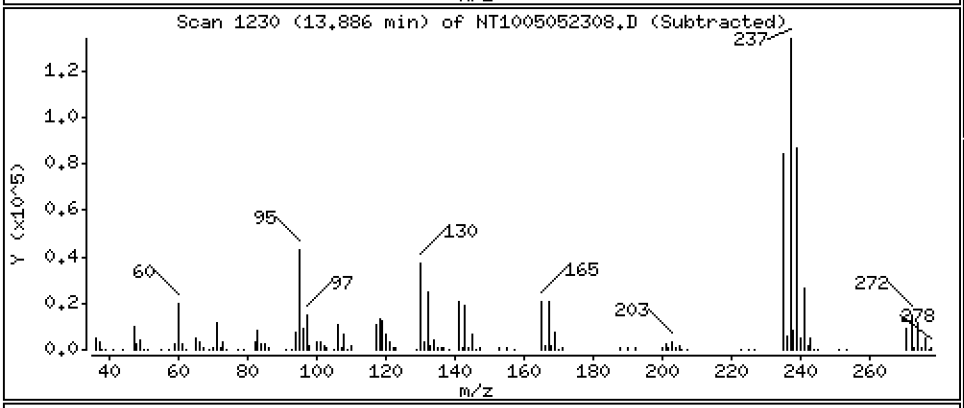
Column phase: ZB-5msi

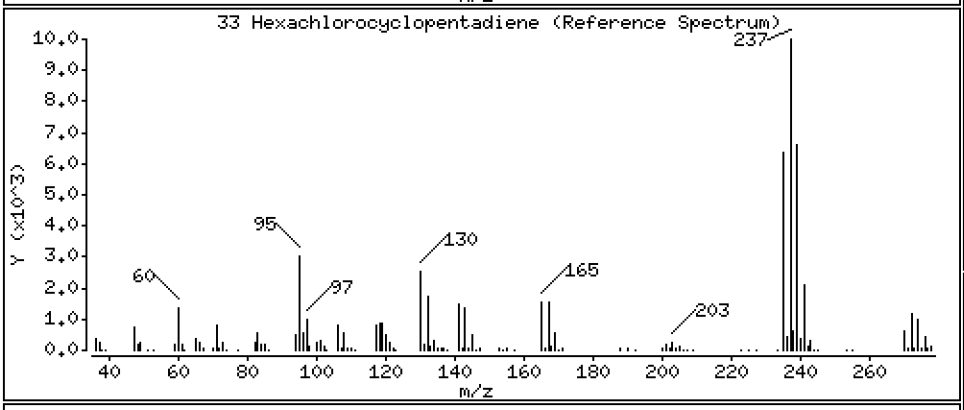
Column diameter: 0.25

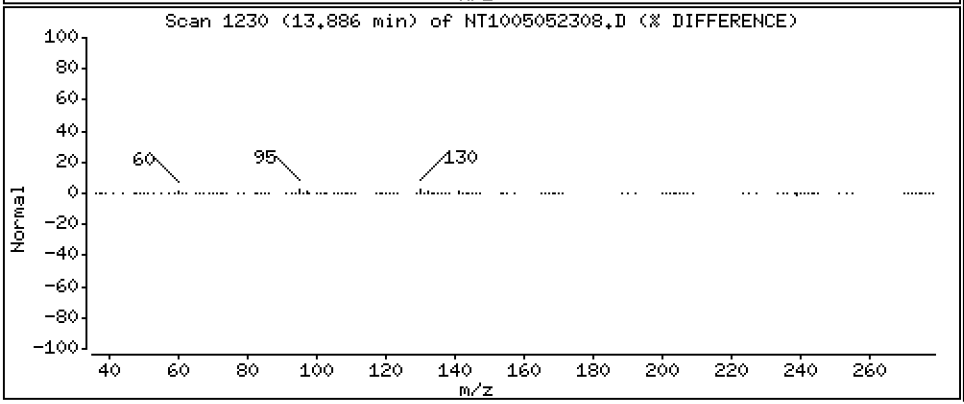
33 Hexachlorocyclopentadiene

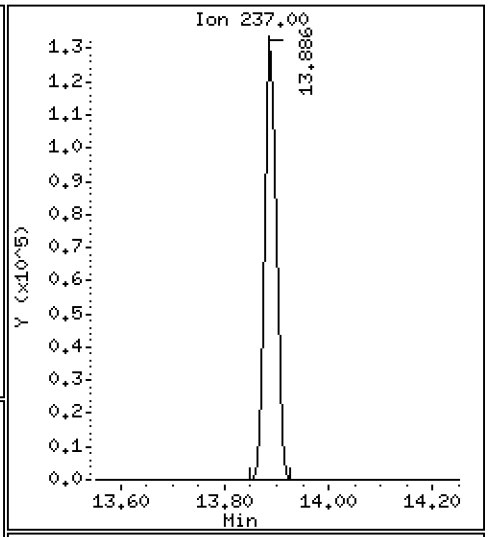
Concentration: 5.001 ug/mL

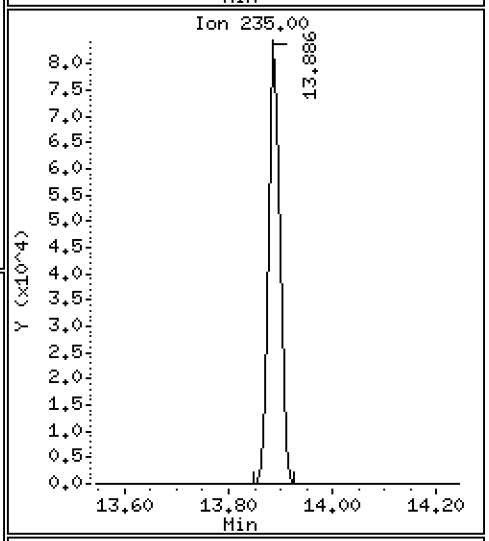


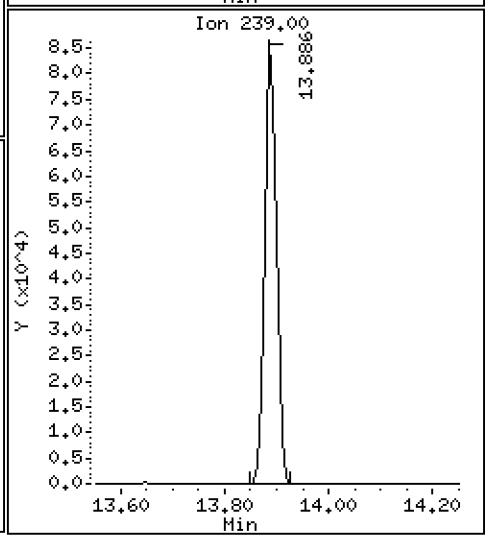












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

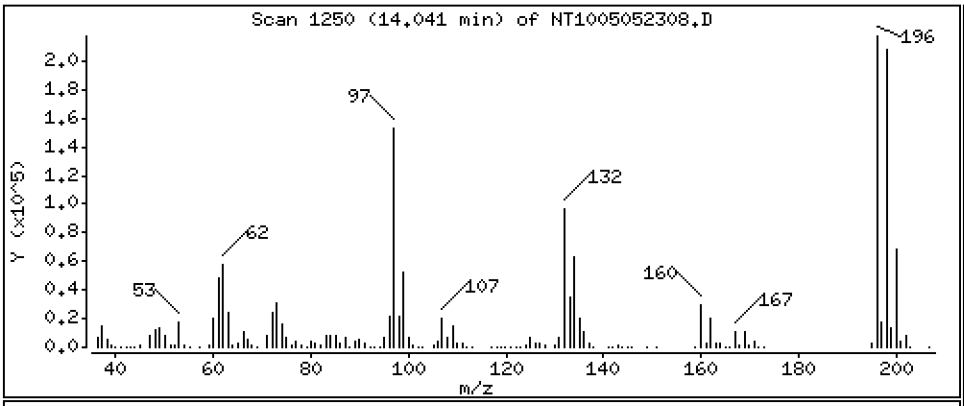
Operator: VTS

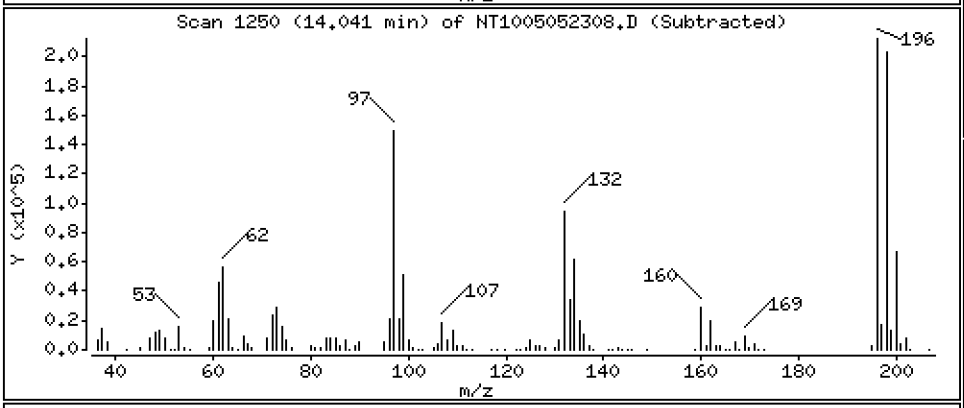
Column phase: ZB-5msi

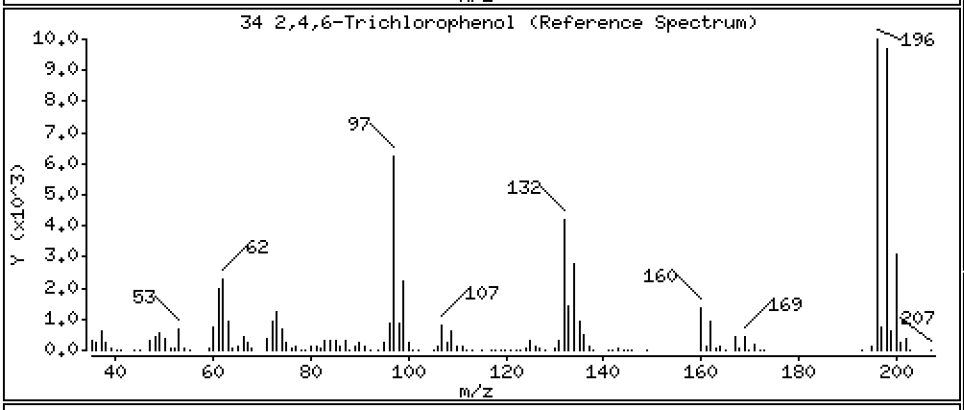
Column diameter: 0.25

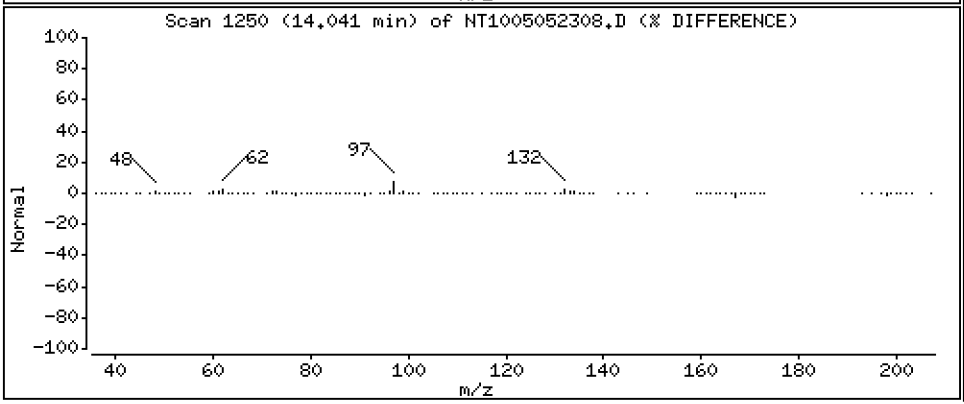
34 2,4,6-Trichlorophenol

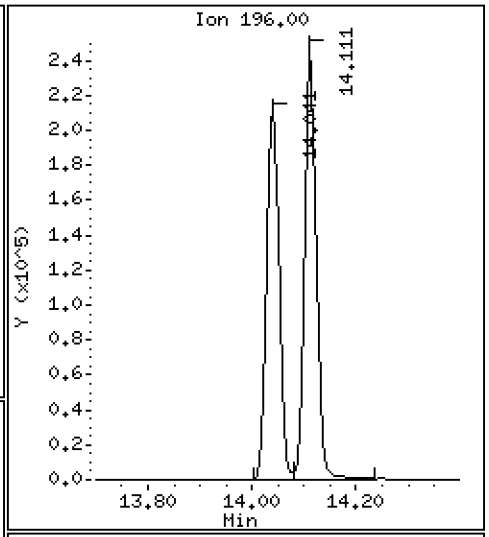
Concentration: 8.505 ug/mL

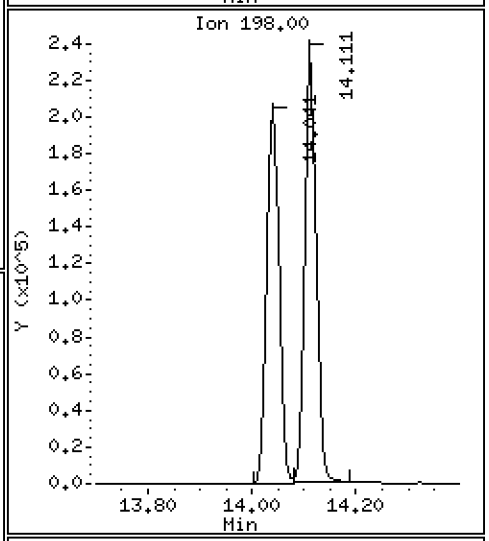


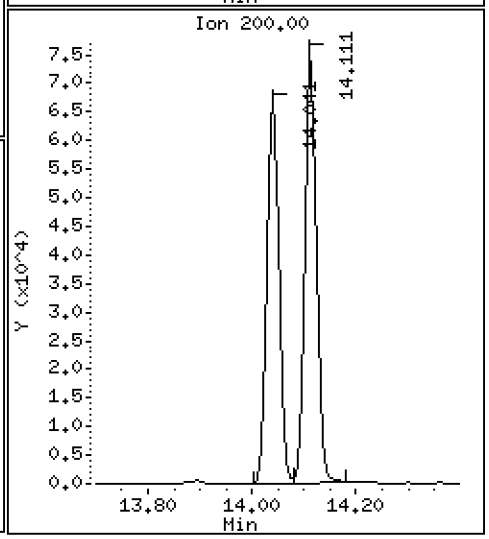












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

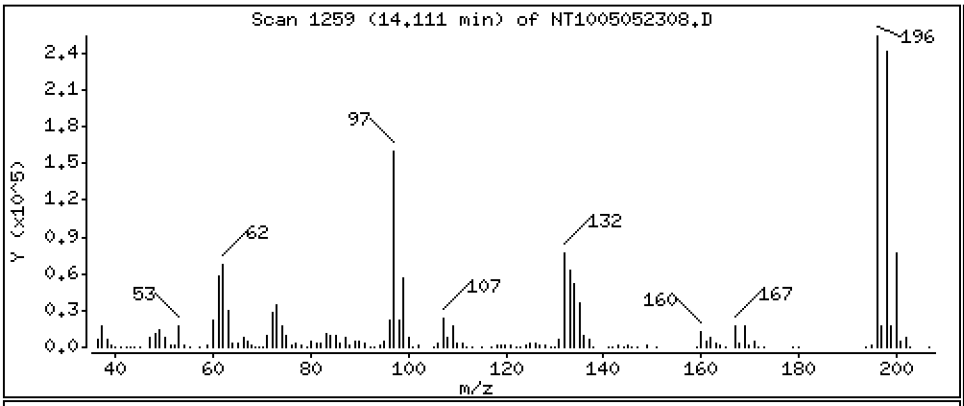
Operator: VTS

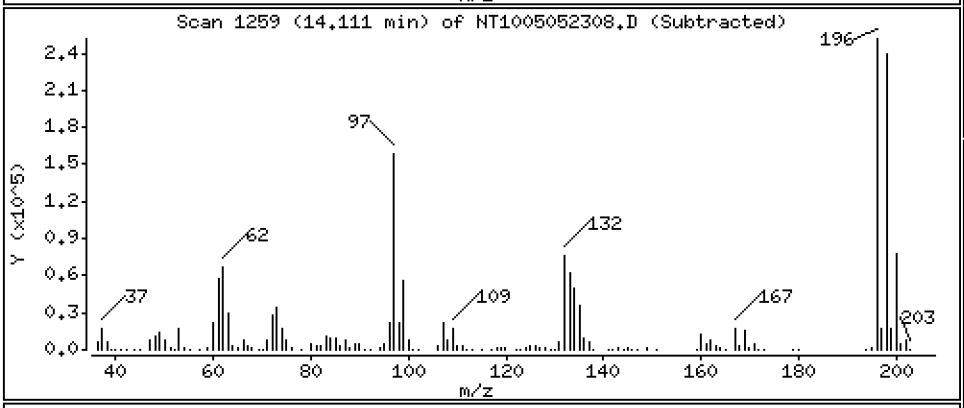
Column phase: ZB-5msi

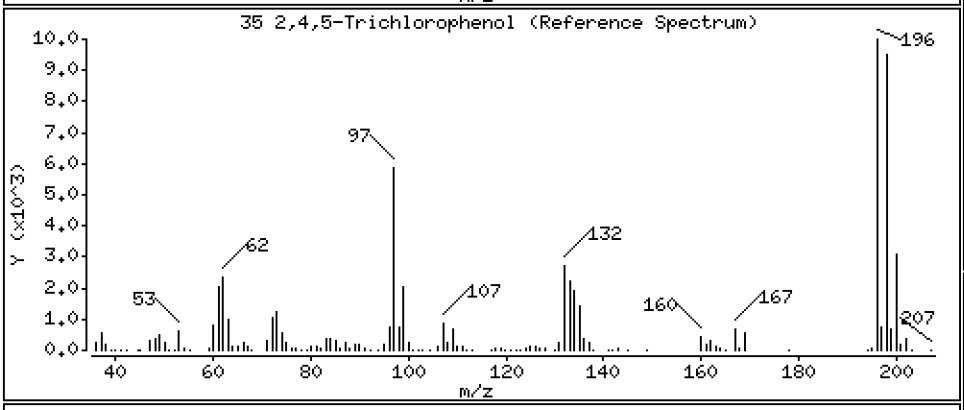
Column diameter: 0.25

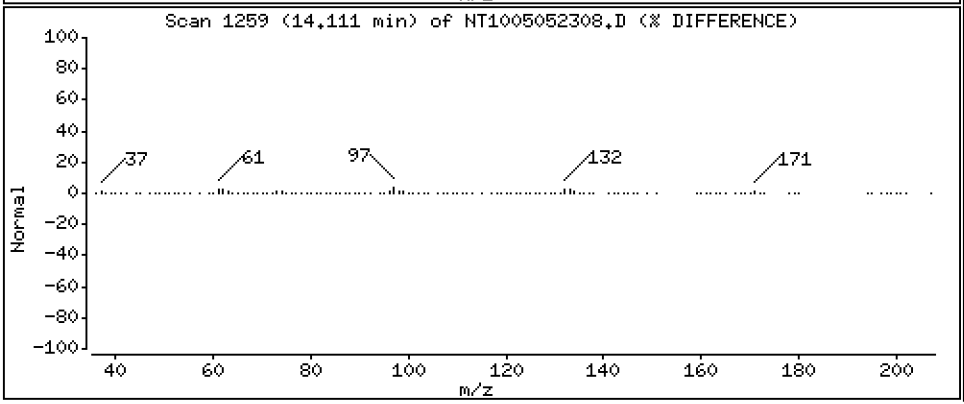
35 2,4,5-Trichlorophenol

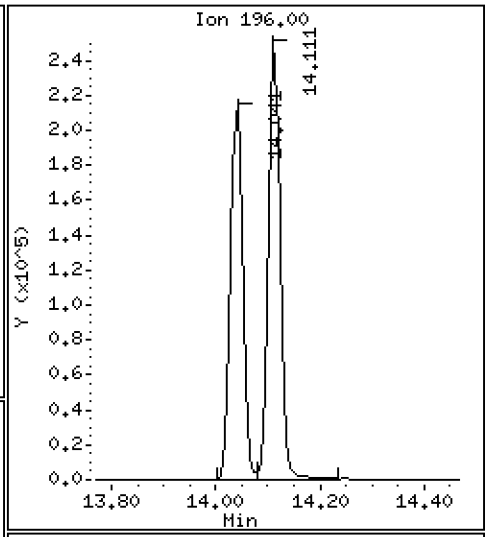
Concentration: 8.594 ug/mL

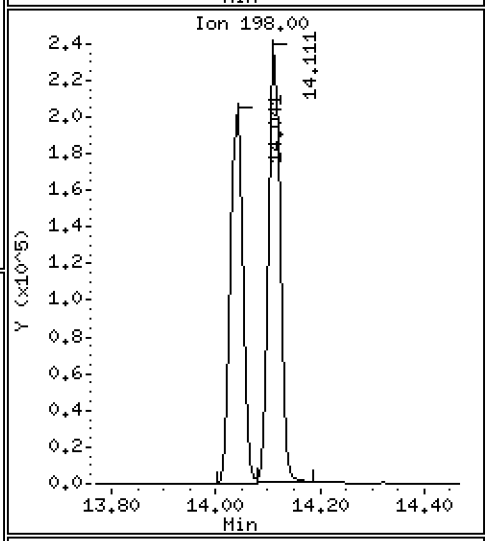


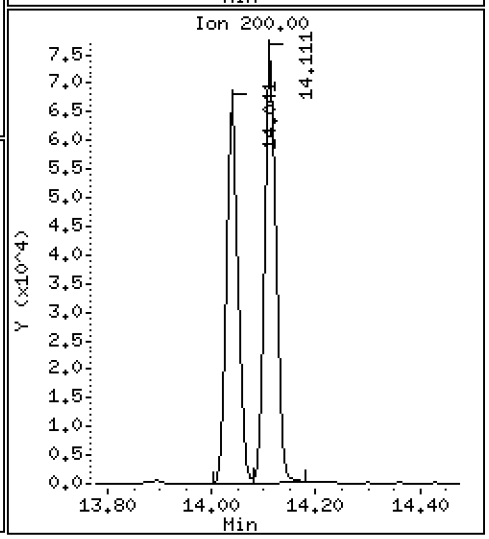












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

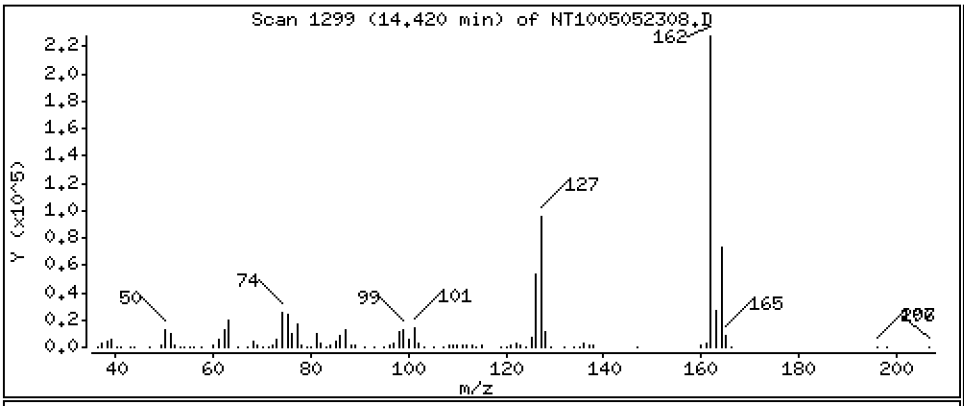
Operator: VTS

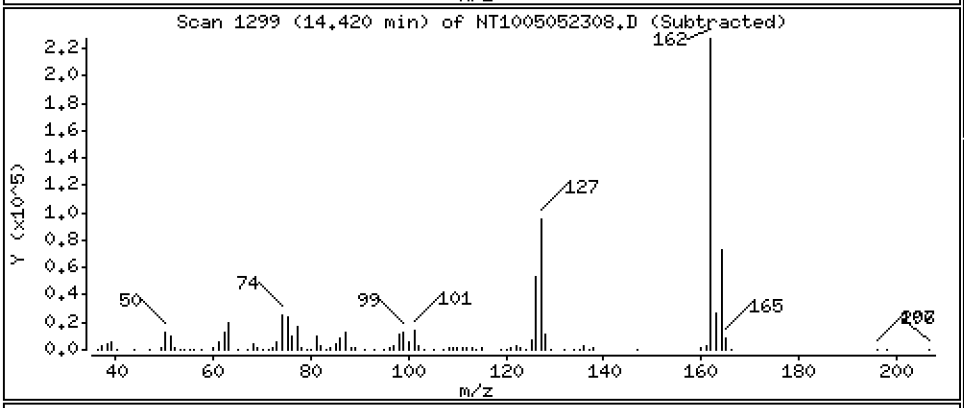
Column phase: ZB-5msi

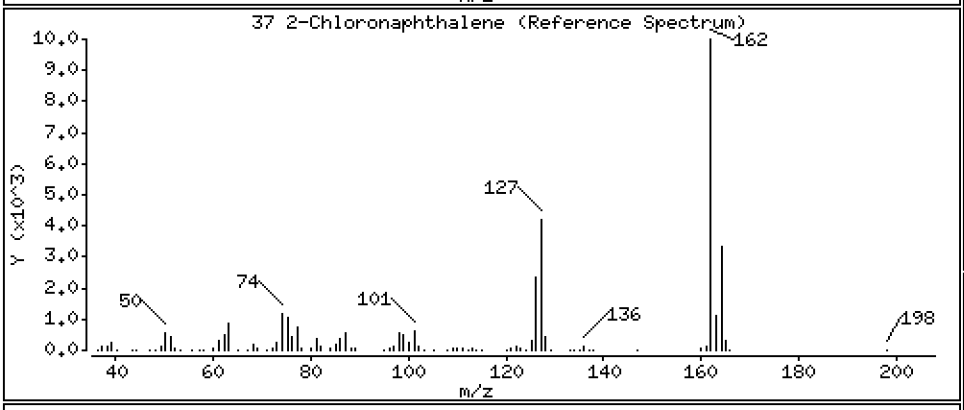
Column diameter: 0.25

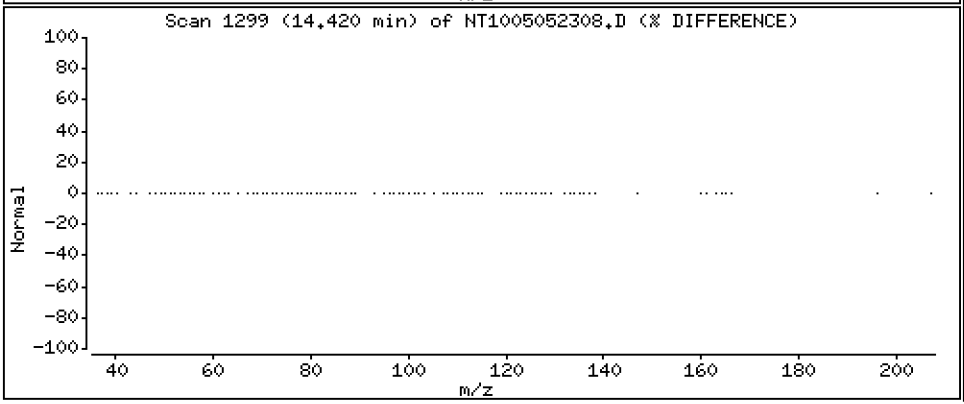
37 2-Chloronaphthalene

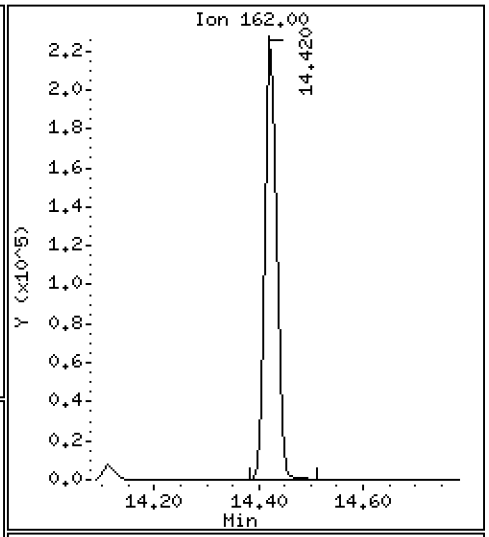
Concentration: 3.127 ug/mL

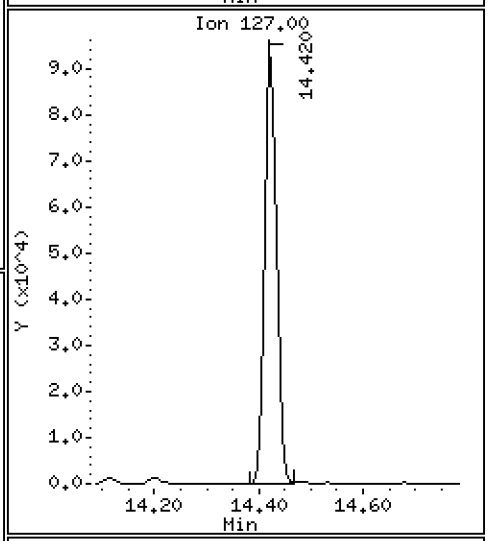


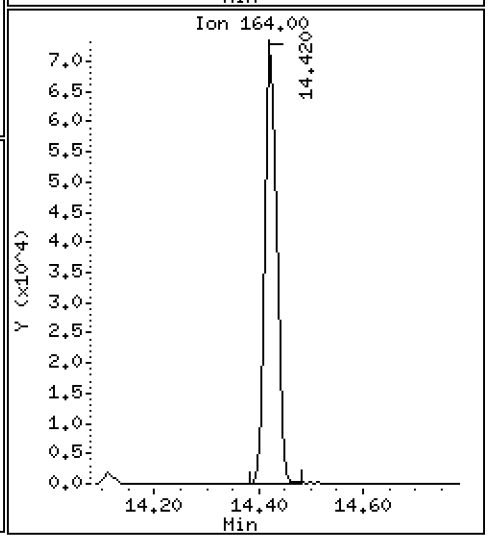












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

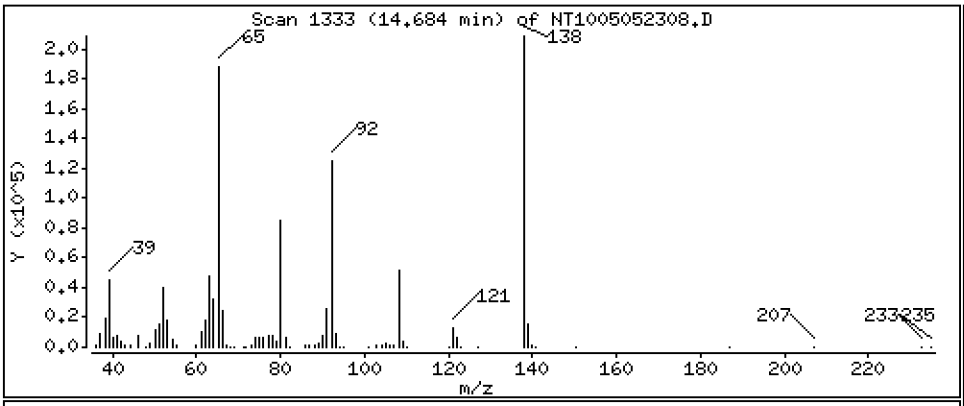
Operator: VTS

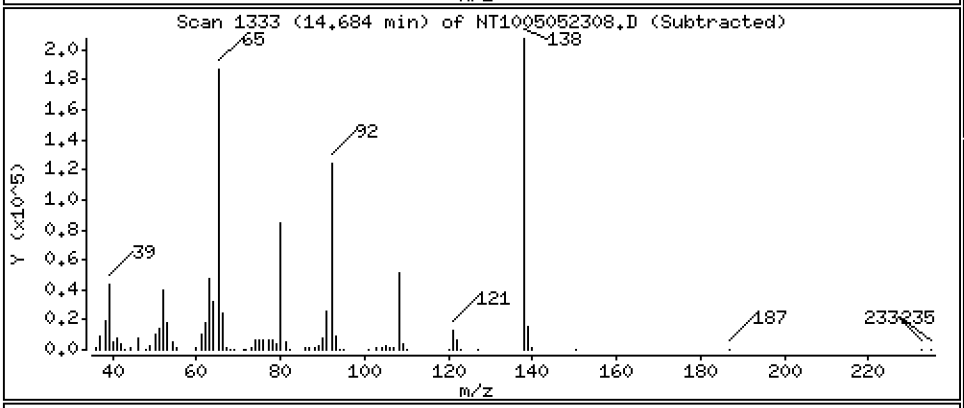
Column phase: ZB-5msi

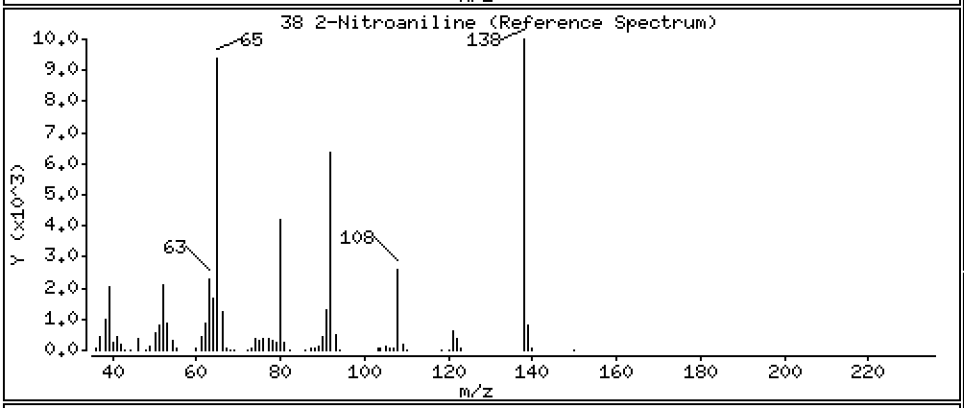
Column diameter: 0.25

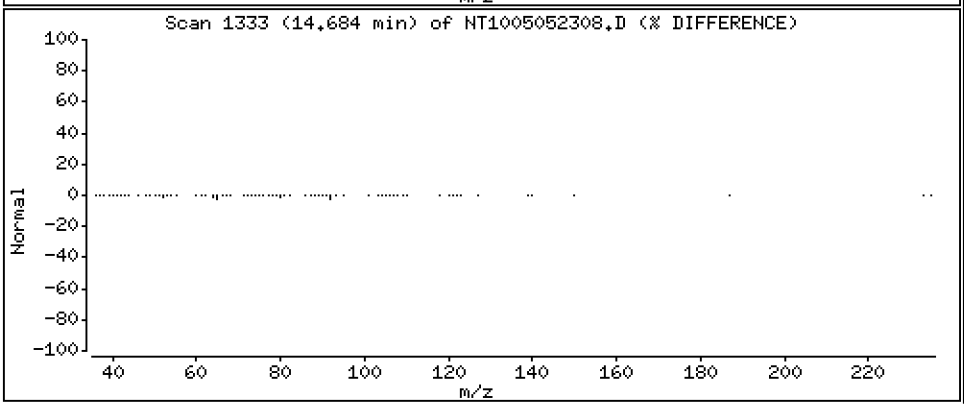
38 2-Nitroaniline

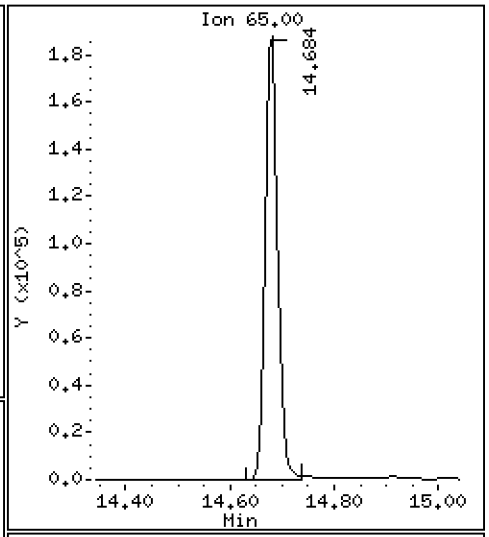
Concentration: 9.806 ug/mL

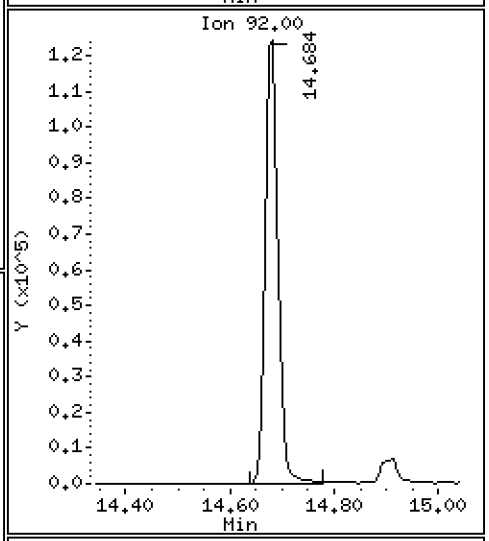


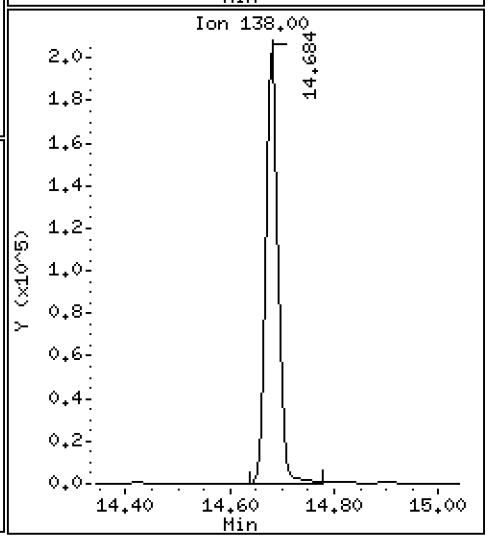












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

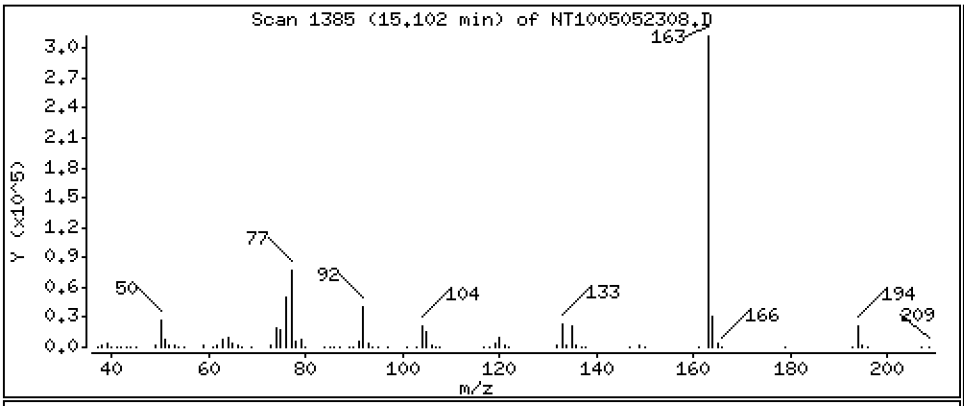
Operator: VTS

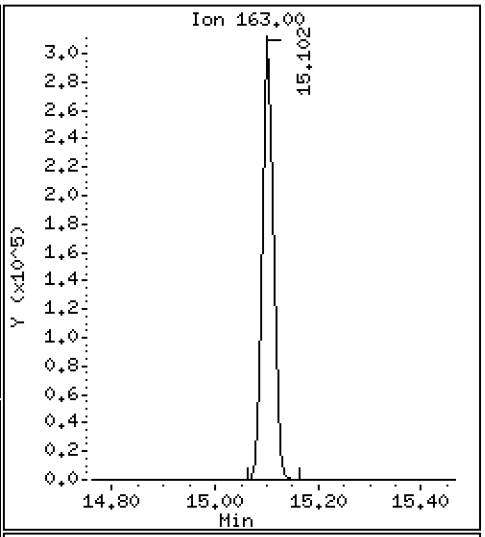
Column phase: ZB-5msi

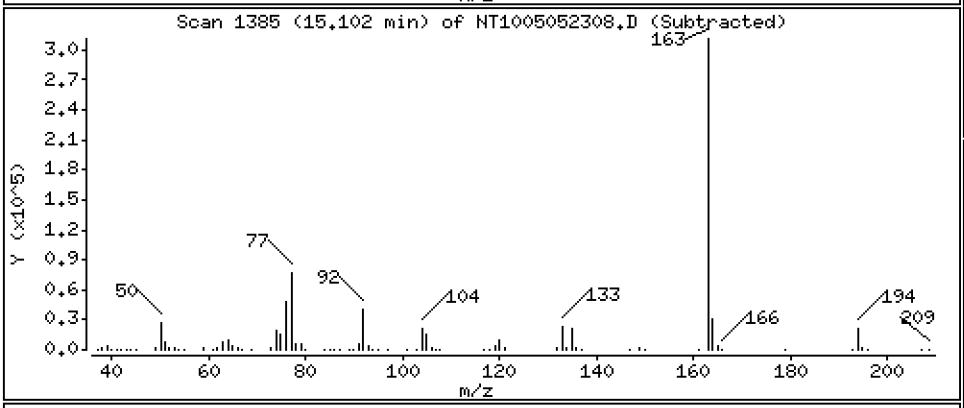
Column diameter: 0.25

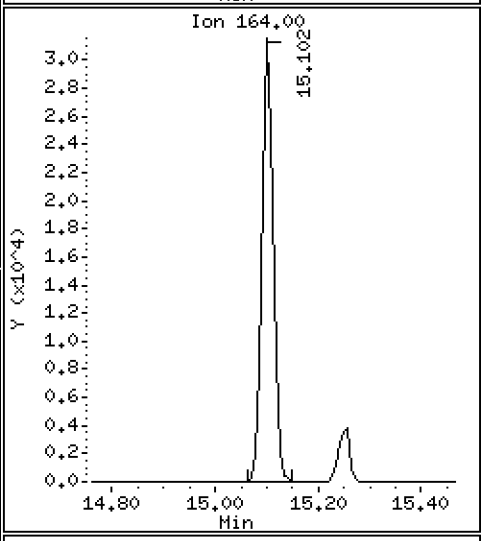
39 Dimethylphthalate

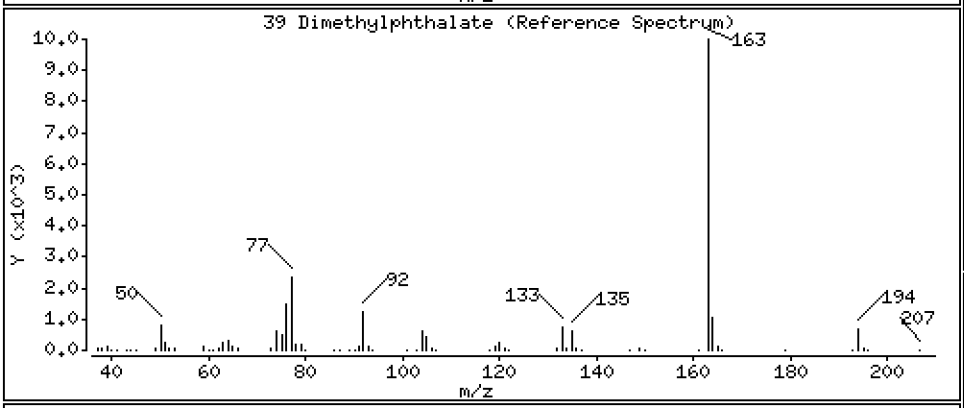
Concentration: 3.624 ug/mL

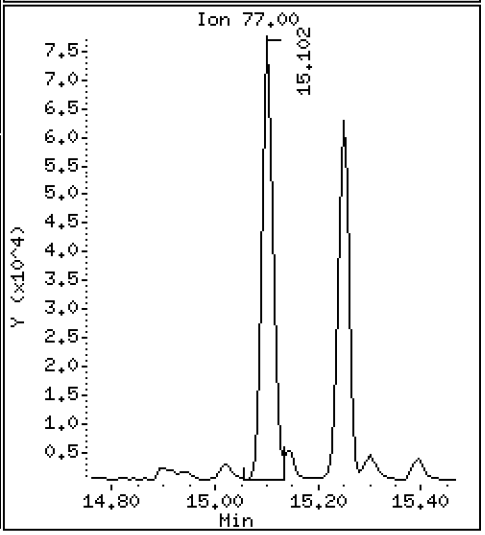


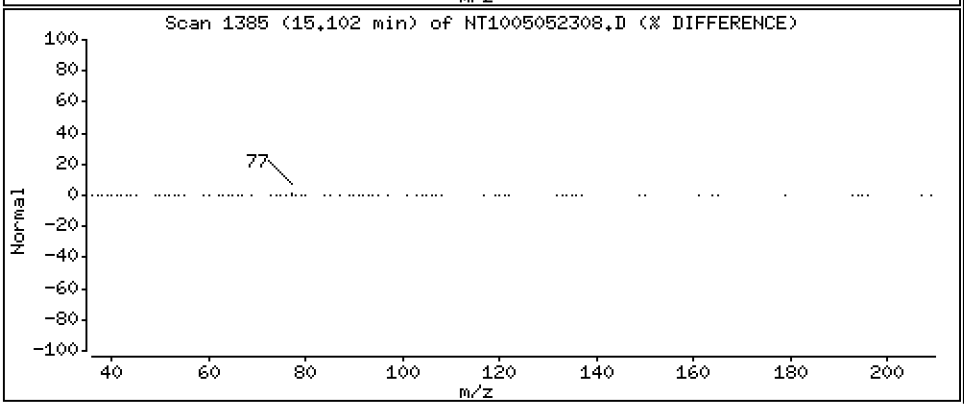












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

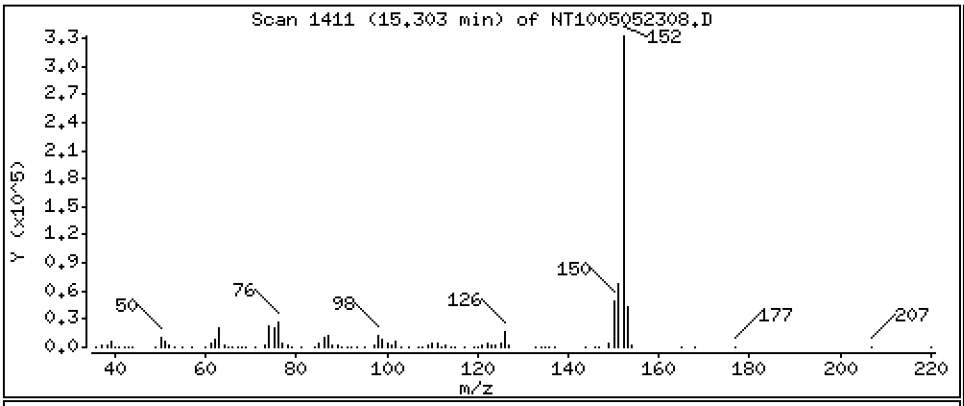
Operator: VTS

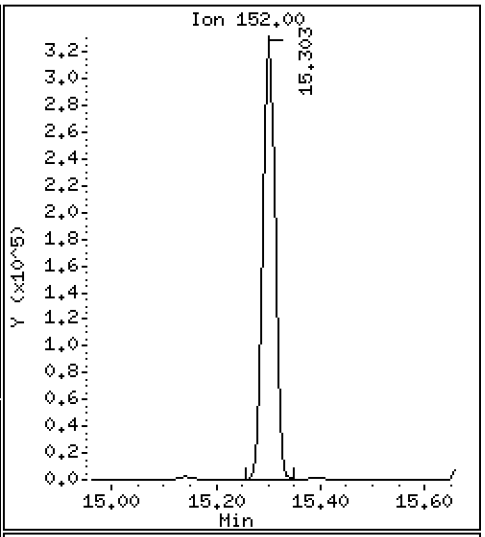
Column phase: ZB-5msi

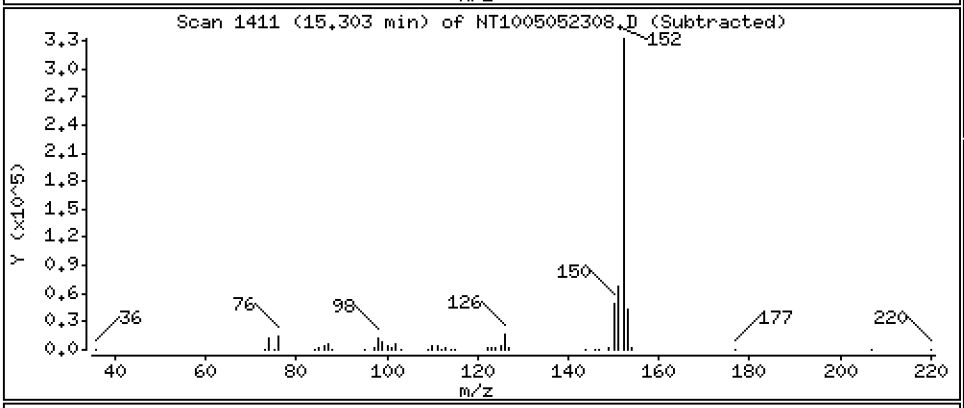
Column diameter: 0.25

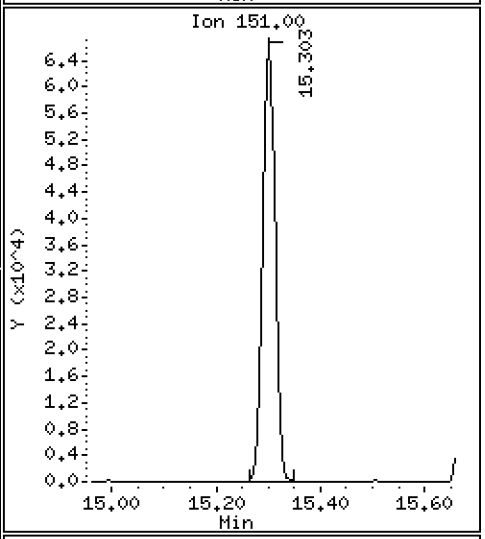
40 Acenaphthylene

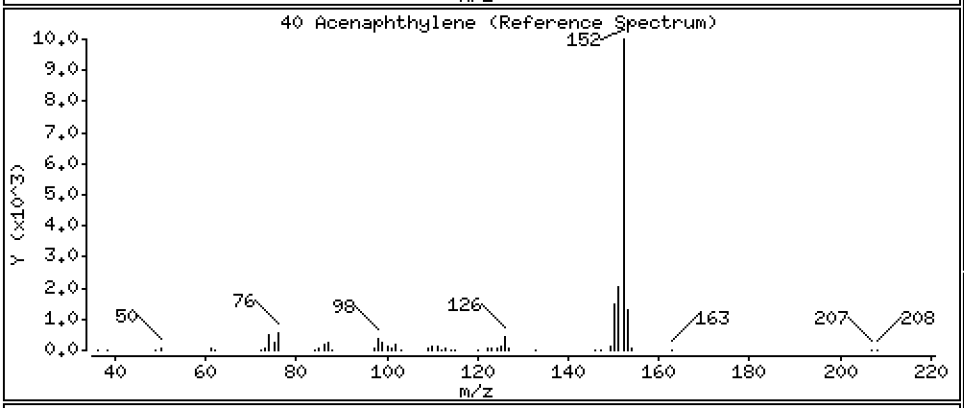
Concentration: 2.987 ug/mL

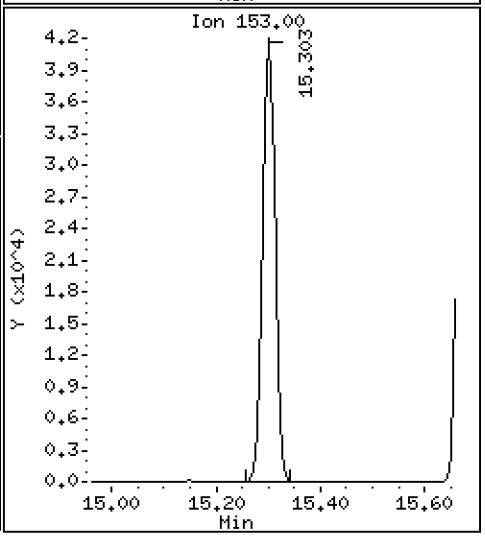


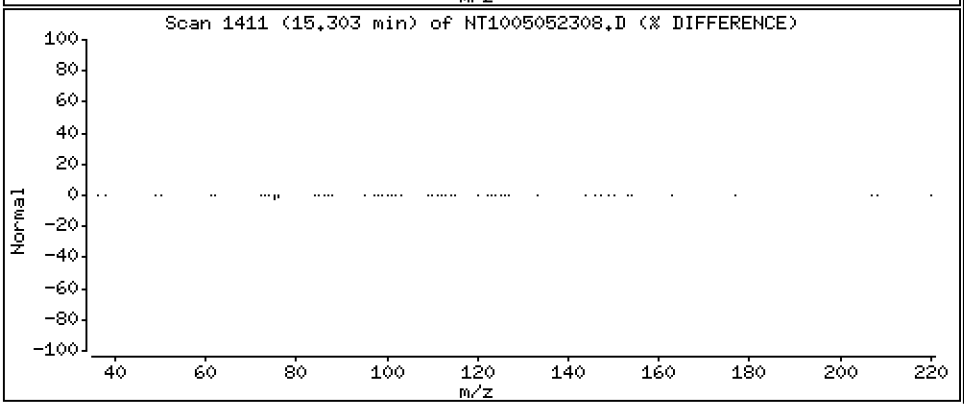












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

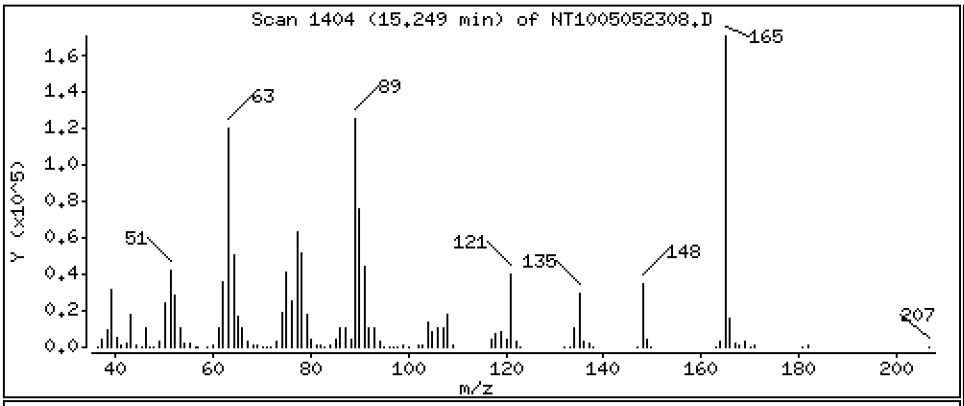
Operator: VTS

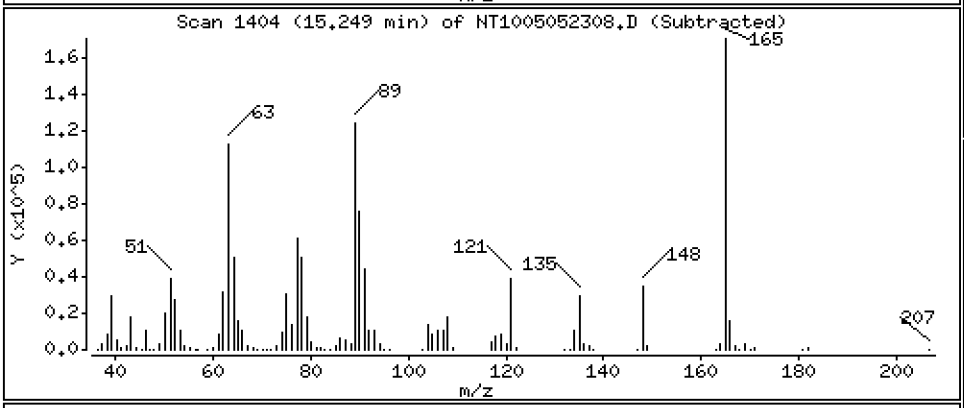
Column phase: ZB-5msi

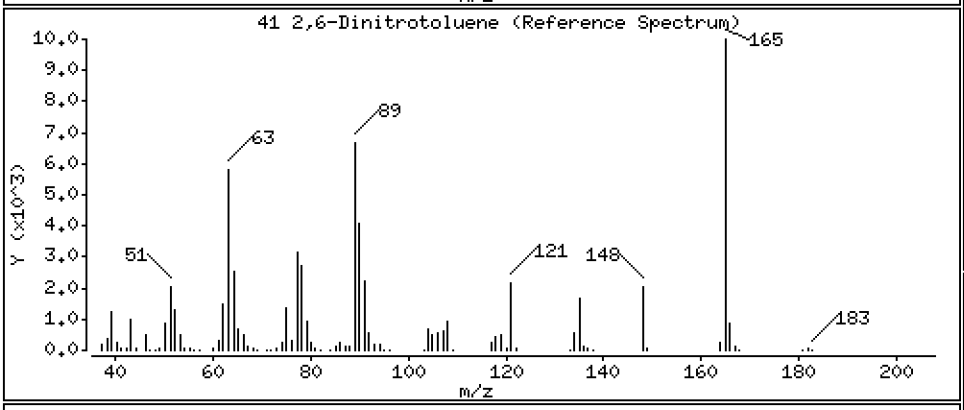
Column diameter: 0.25

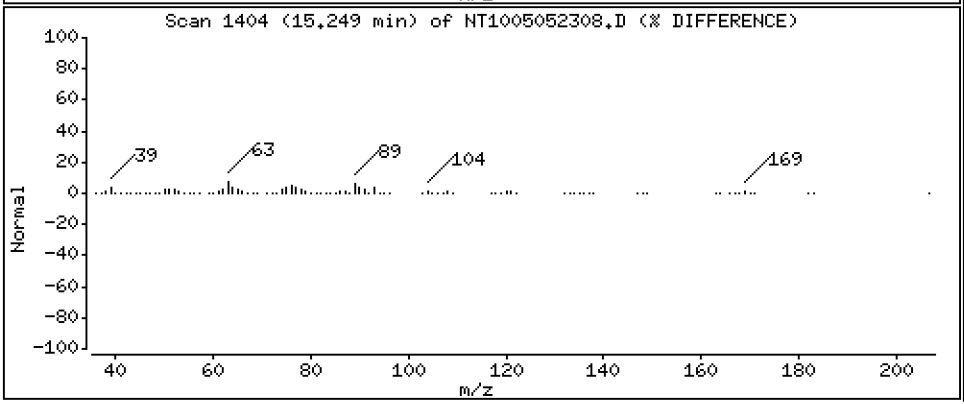
41 2,6-Dinitrotoluene

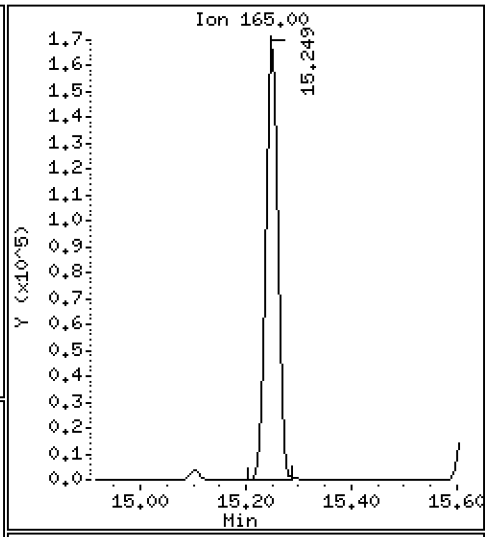
Concentration: 9.535 ug/mL

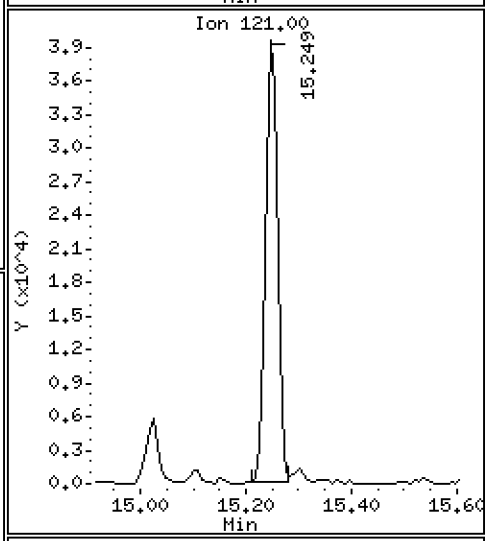


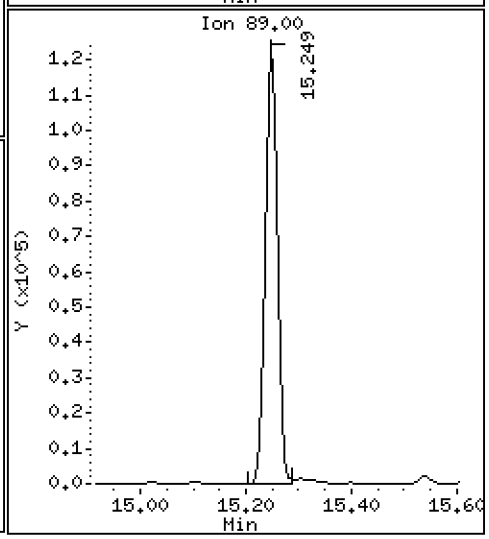












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

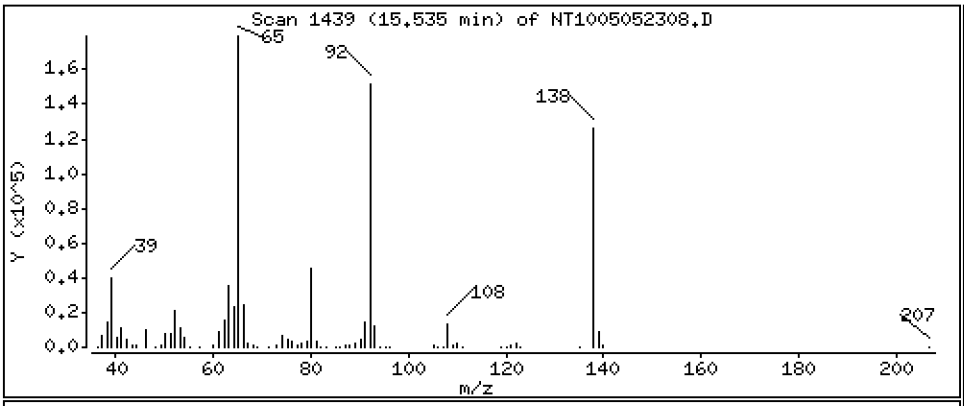
Operator: VTS

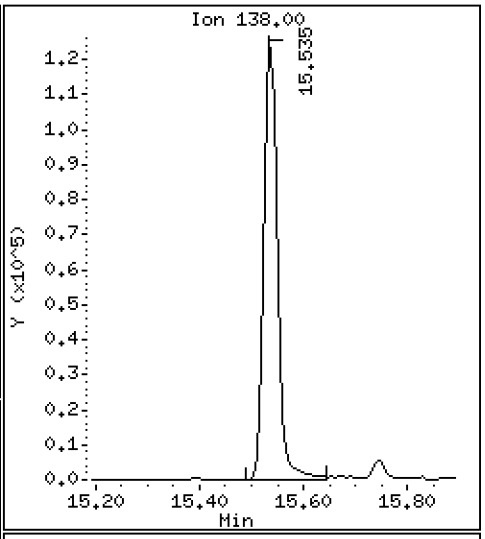
Column phase: ZB-5msi

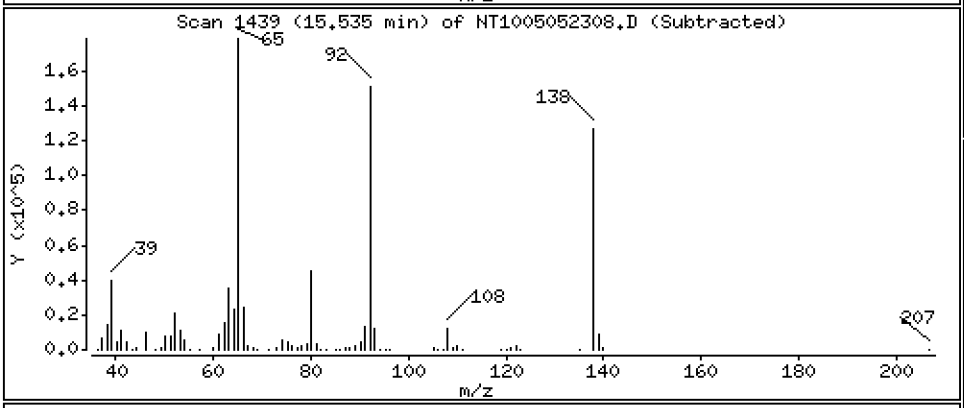
Column diameter: 0.25

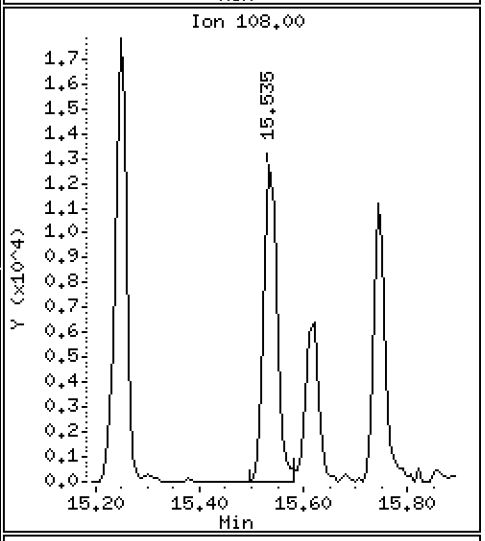
43 3-Nitroaniline

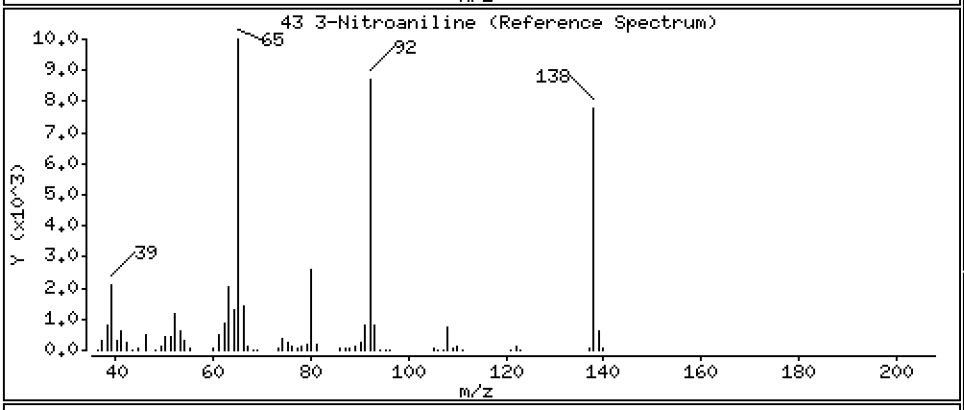
Concentration: 7.904 ug/mL

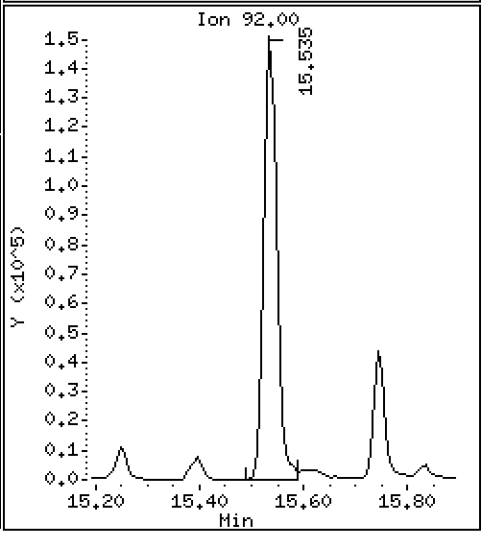


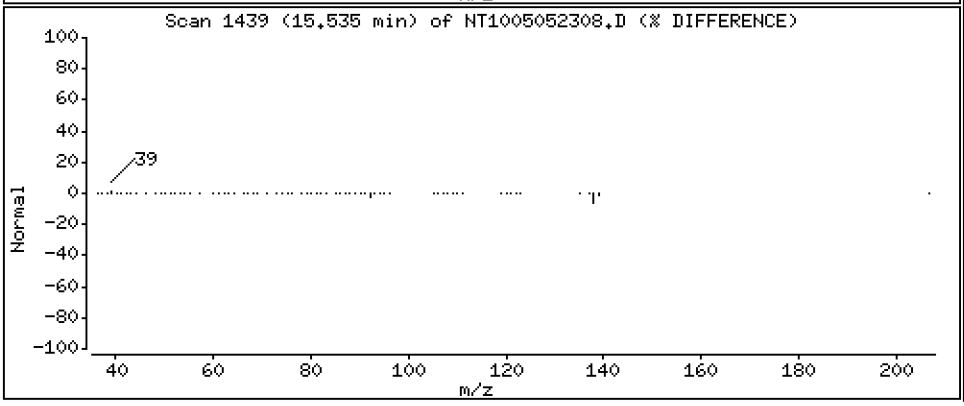












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

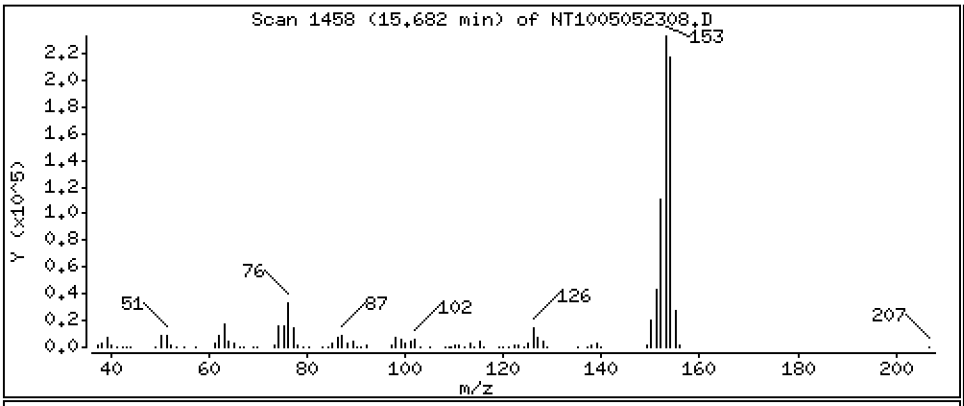
Operator: VTS

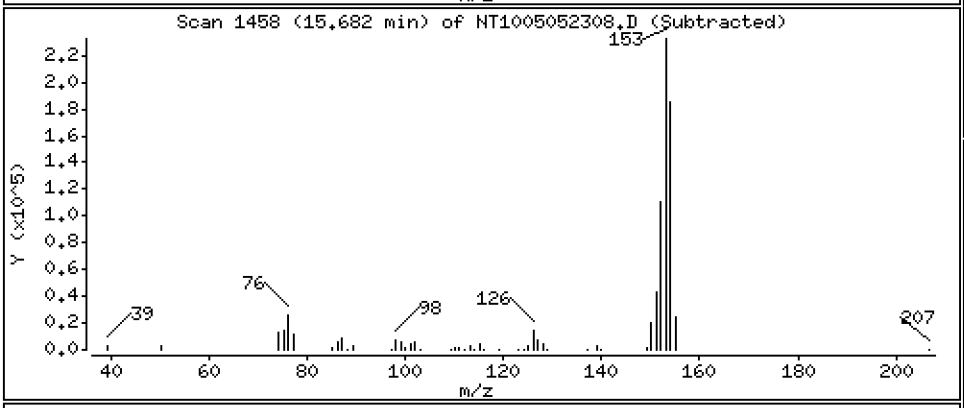
Column phase: ZB-5msi

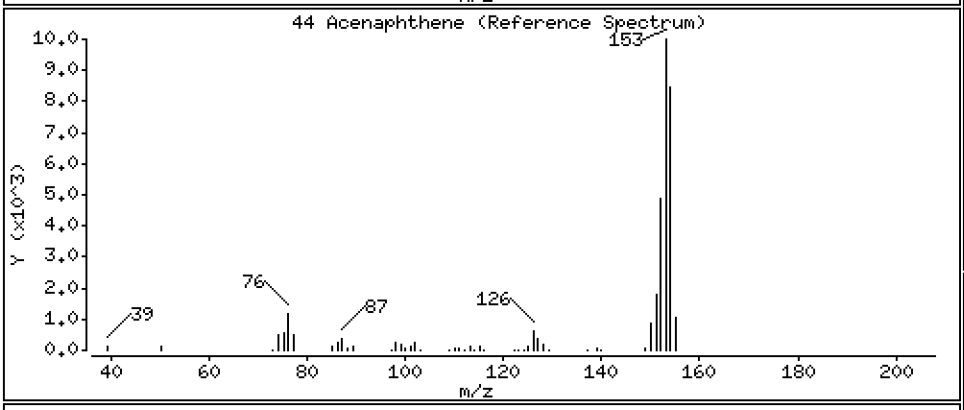
Column diameter: 0.25

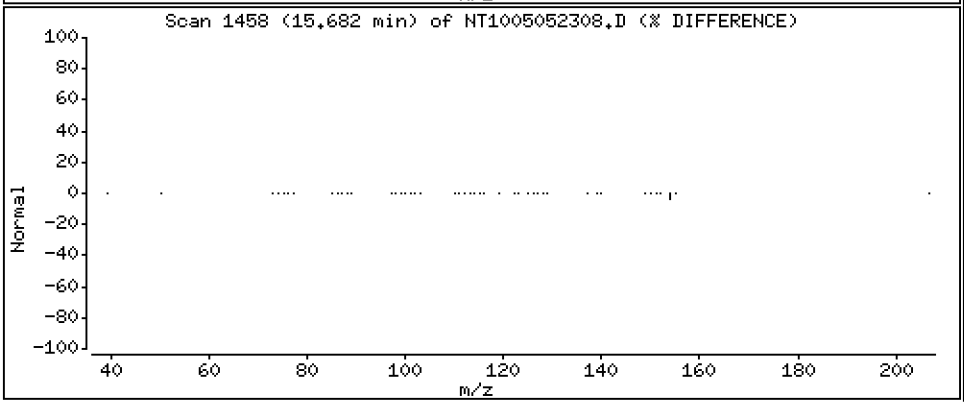
44 Acenaphthene

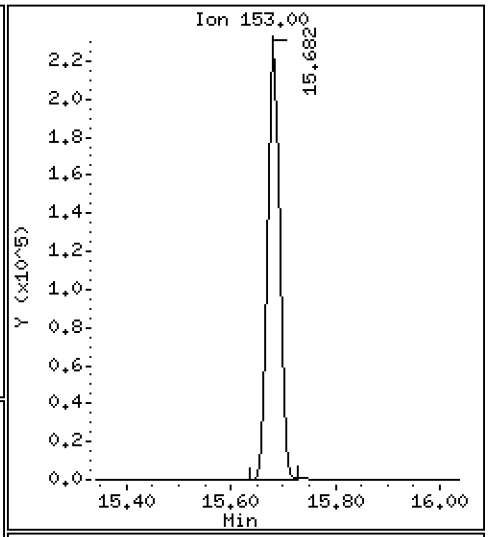
Concentration: 3.185 ug/mL

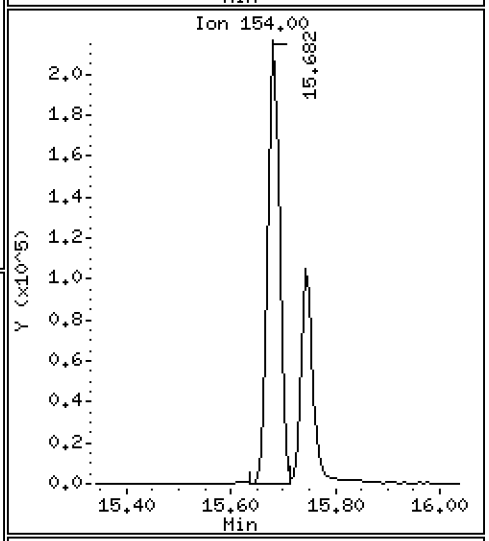


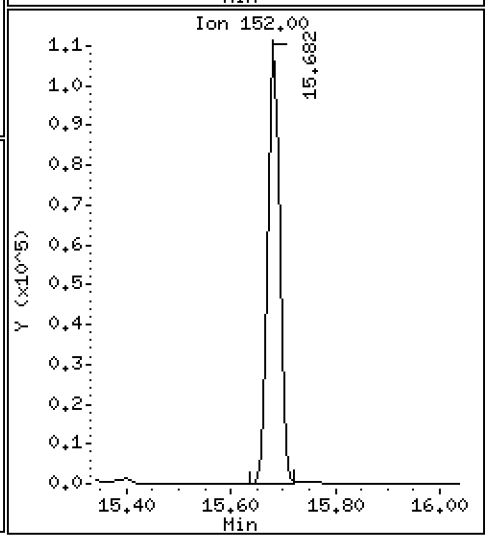












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

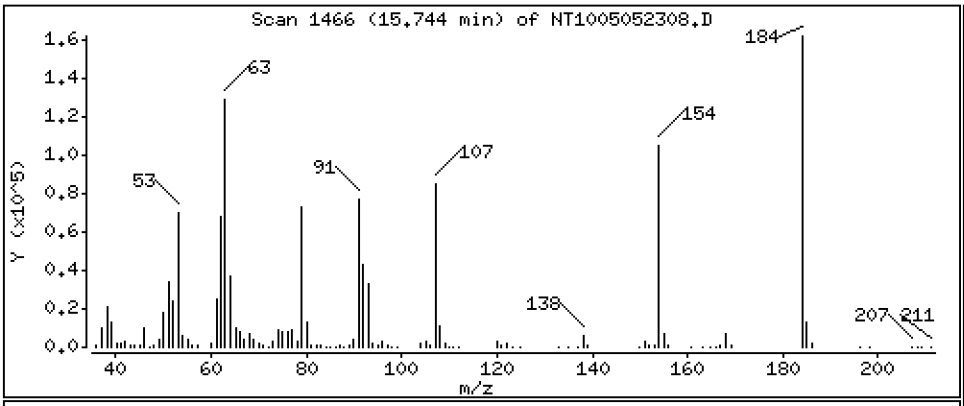
Operator: VTS

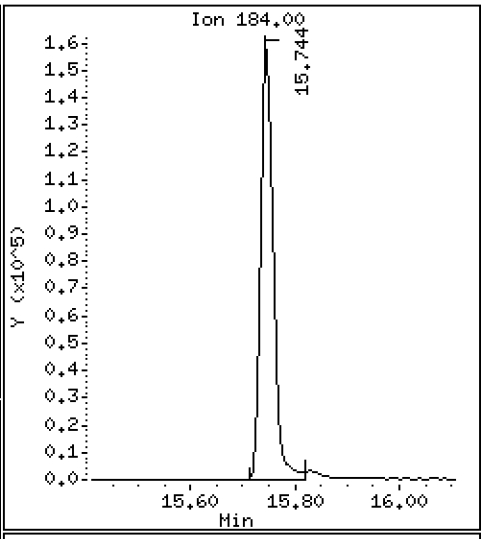
Column phase: ZB-5msi

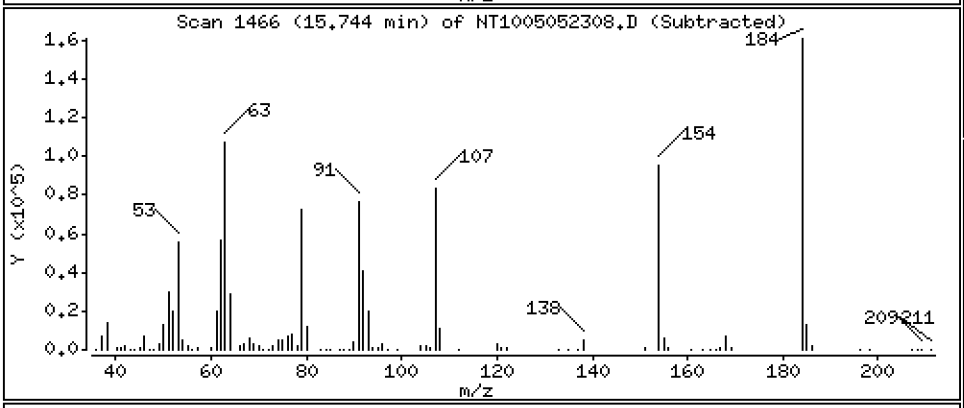
Column diameter: 0.25

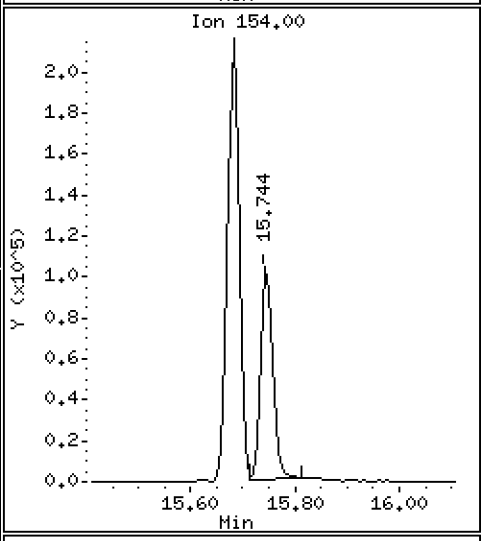
45 2,4-Dinitrophenol

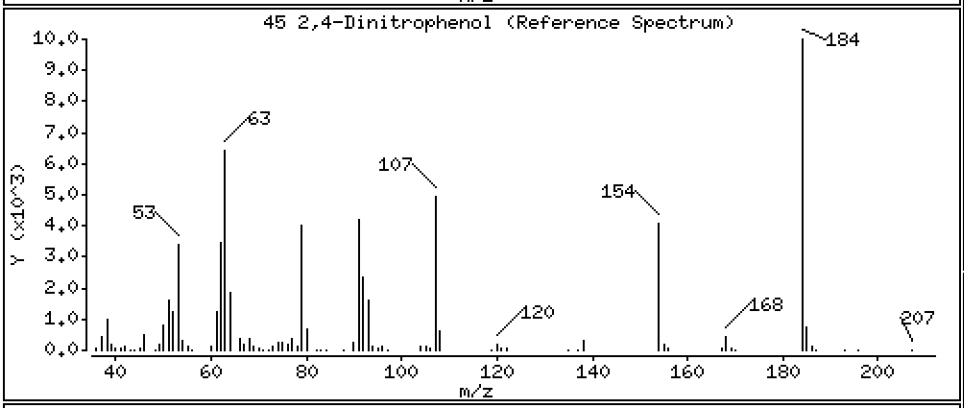
Concentration: 11.86 ug/mL

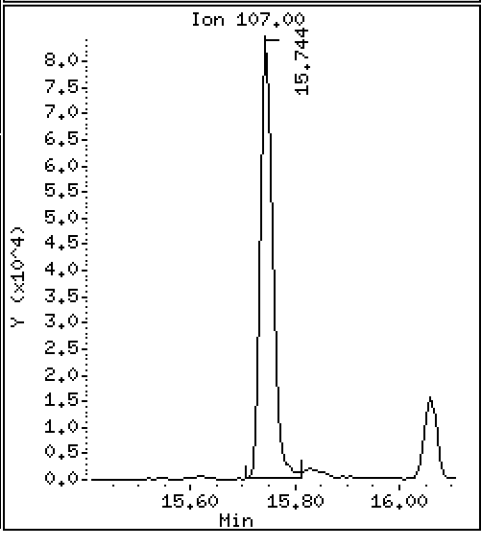


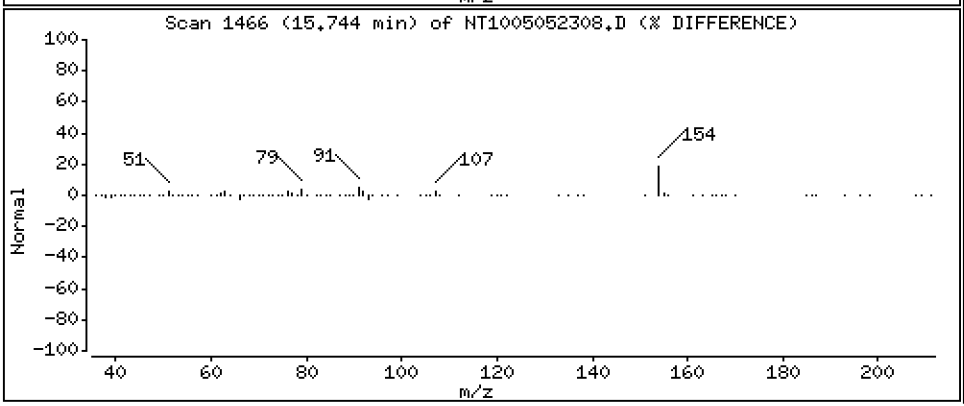












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

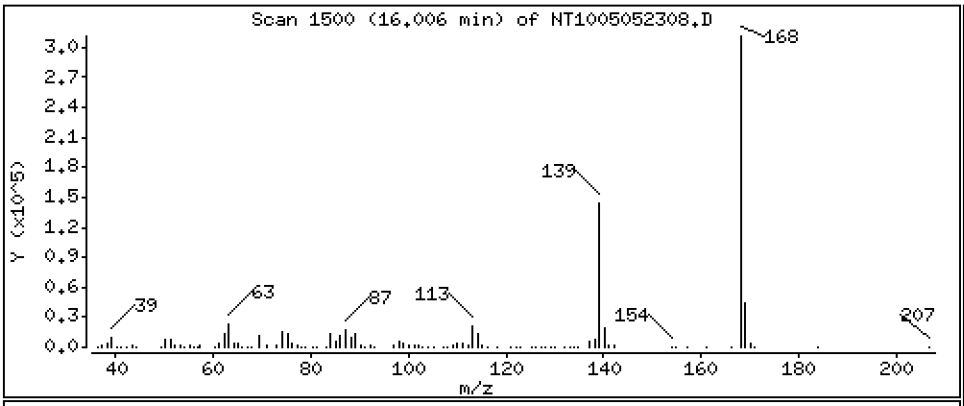
Operator: VTS

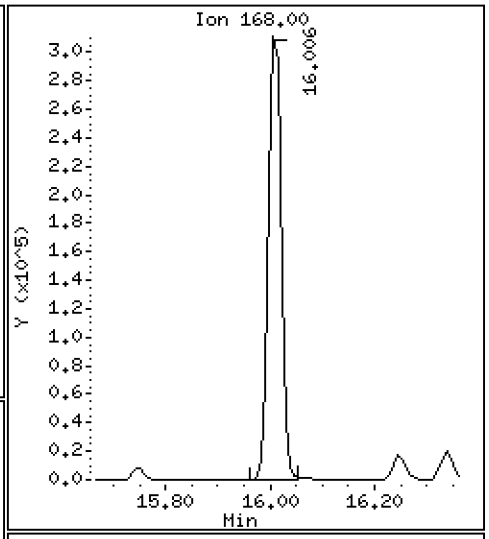
Column phase: ZB-5msi

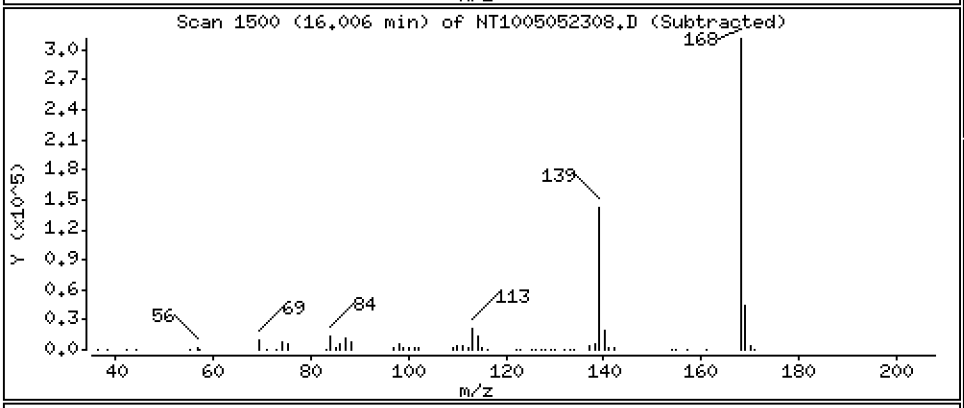
Column diameter: 0.25

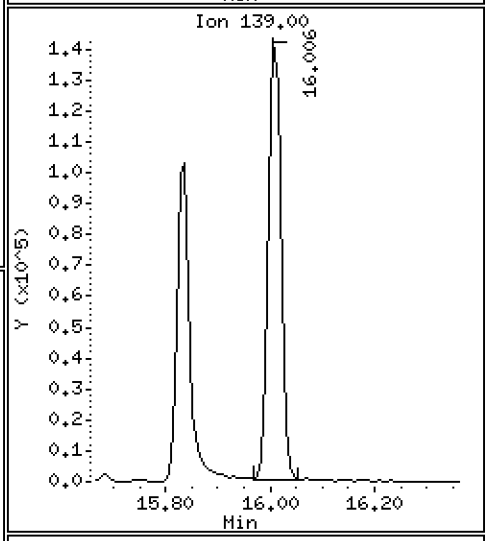
46 Dibenzofuran

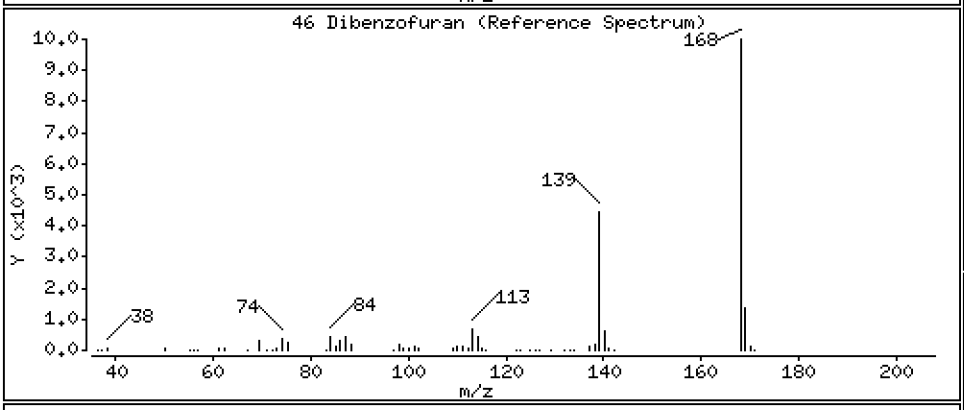
Concentration: 3.194 ug/mL

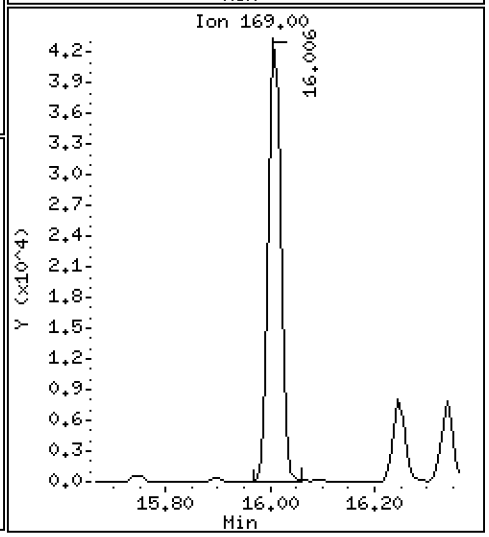


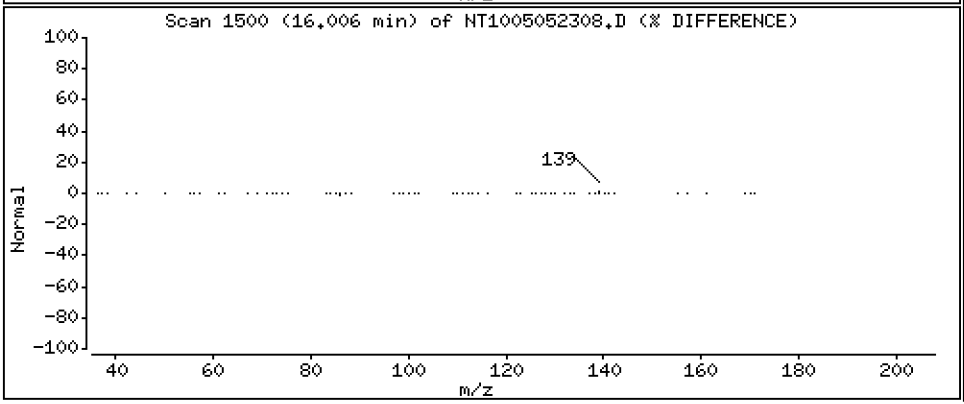












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

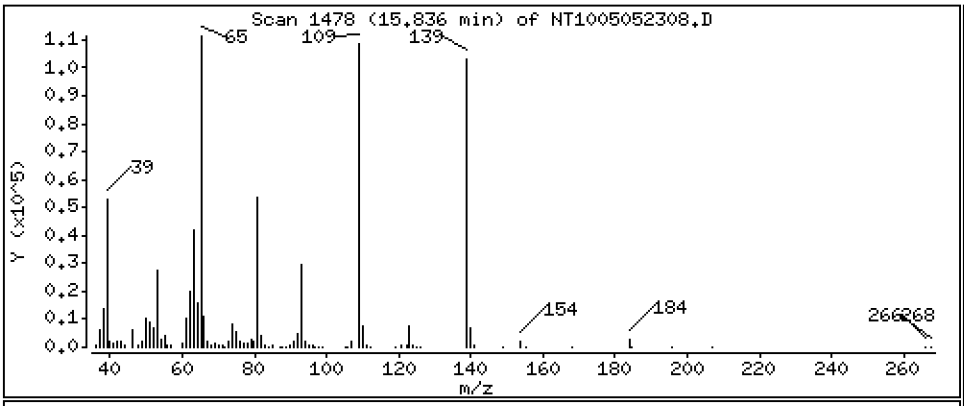
Operator: VTS

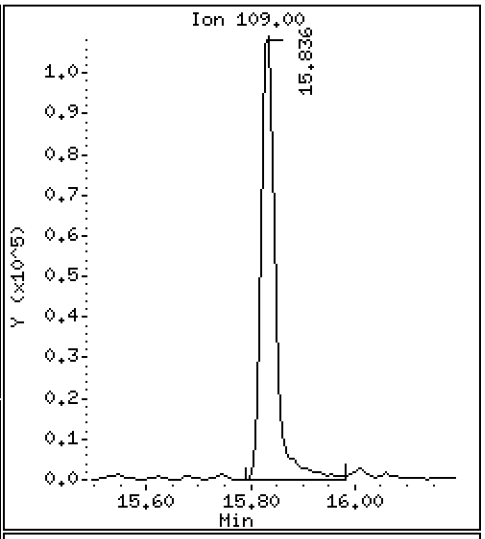
Column phase: ZB-5msi

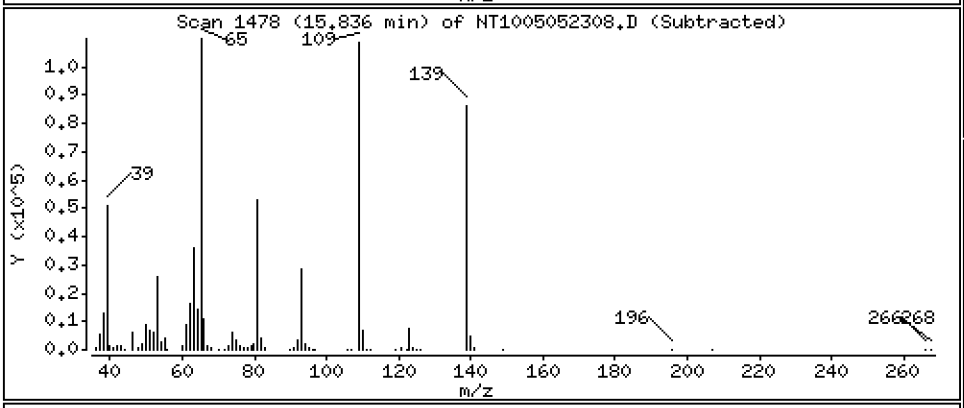
Column diameter: 0.25

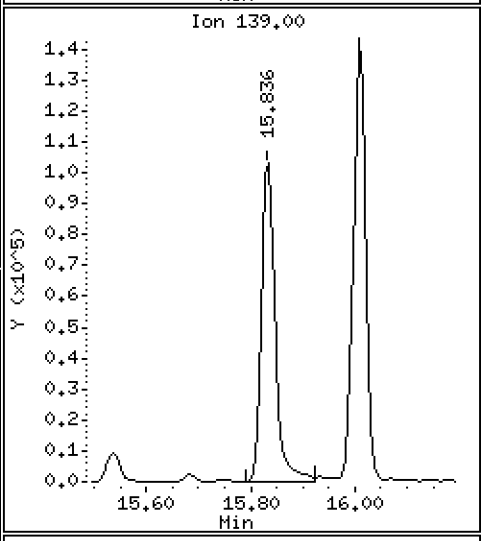
47 4-Nitrophenol

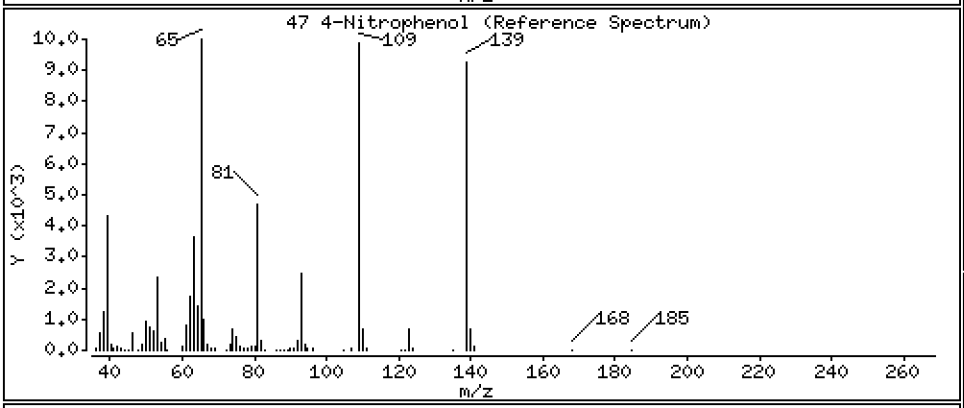
Concentration: 7.906 ug/mL

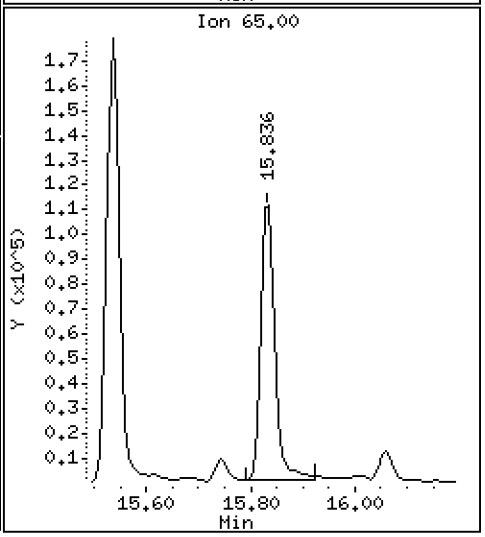


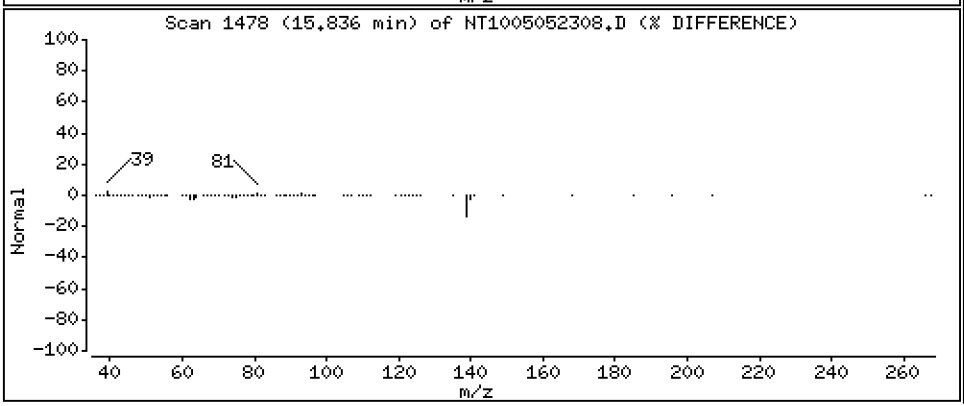












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

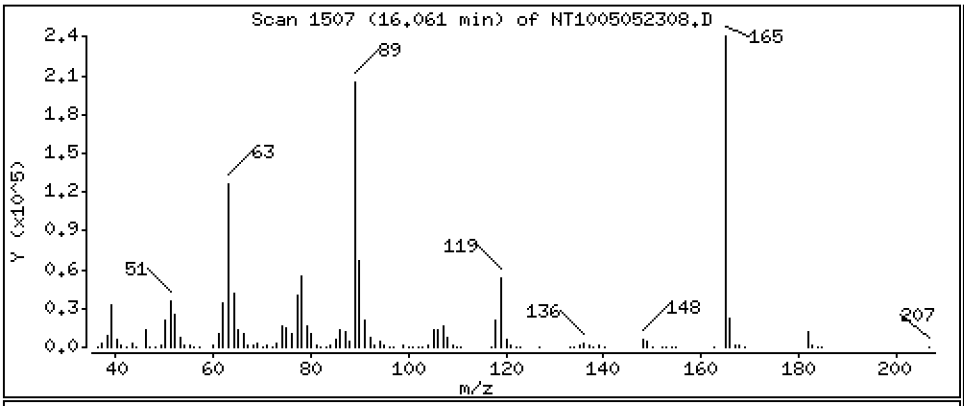
Operator: VTS

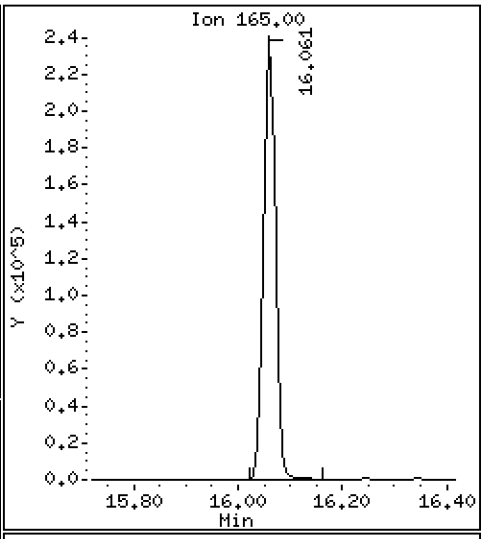
Column phase: ZB-5msi

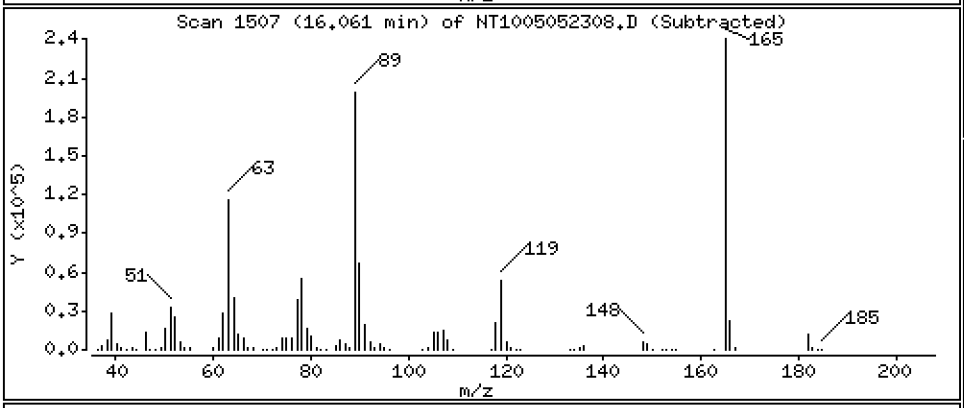
Column diameter: 0.25

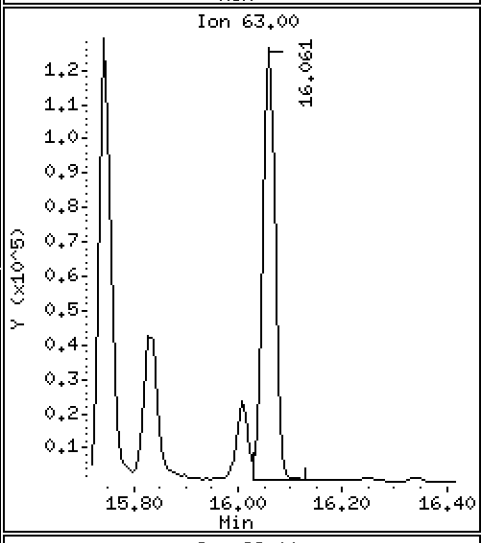
48 2,4-Dinitrotoluene

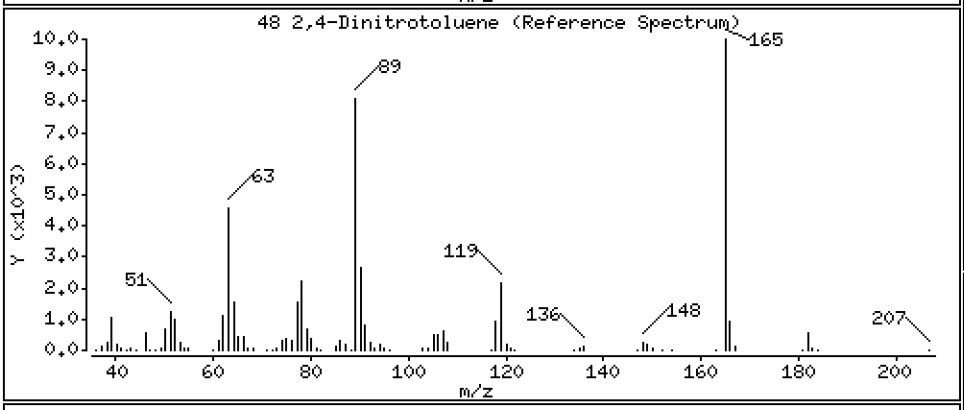
Concentration: 8.908 ug/mL

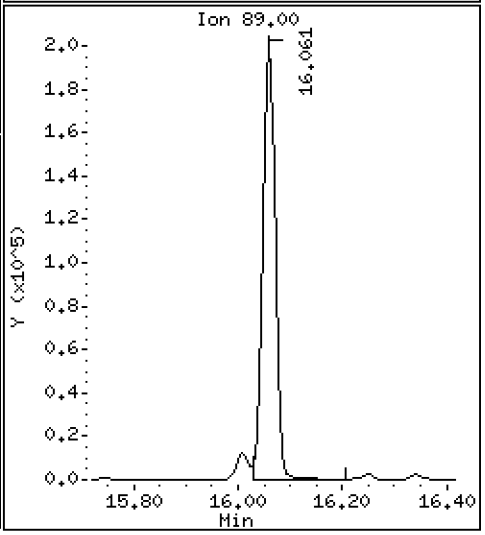


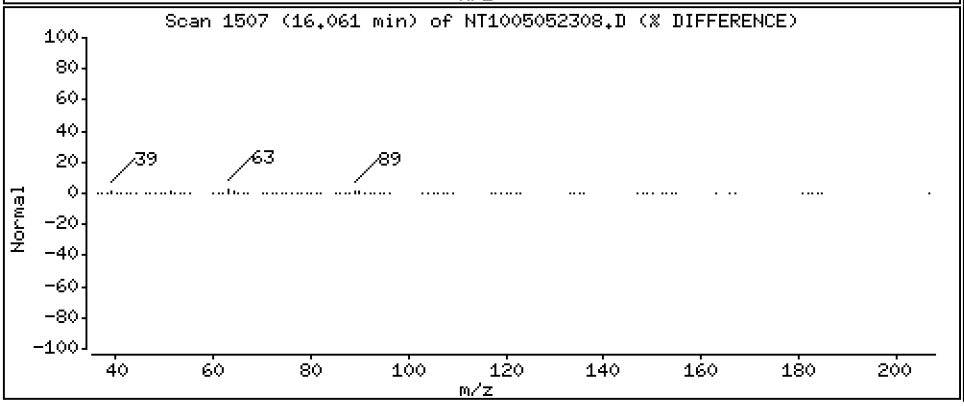












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

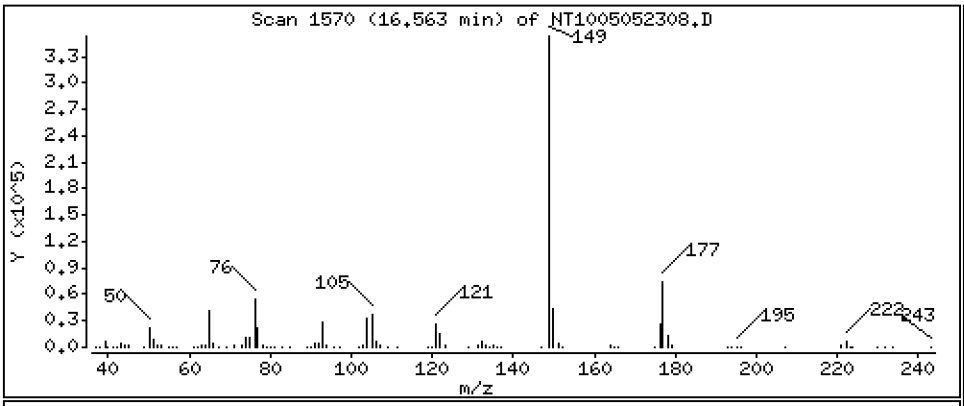
Operator: VTS

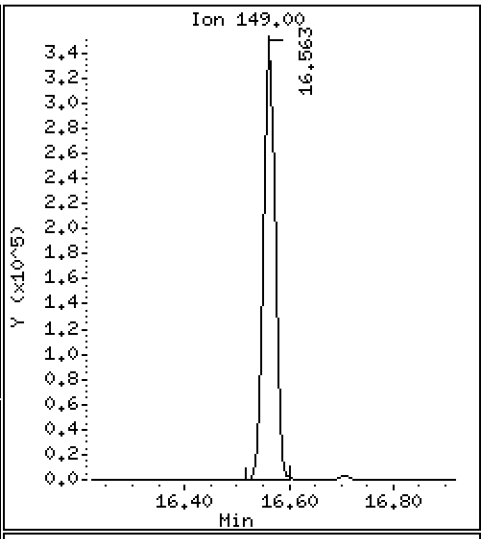
Column phase: ZB-5msi

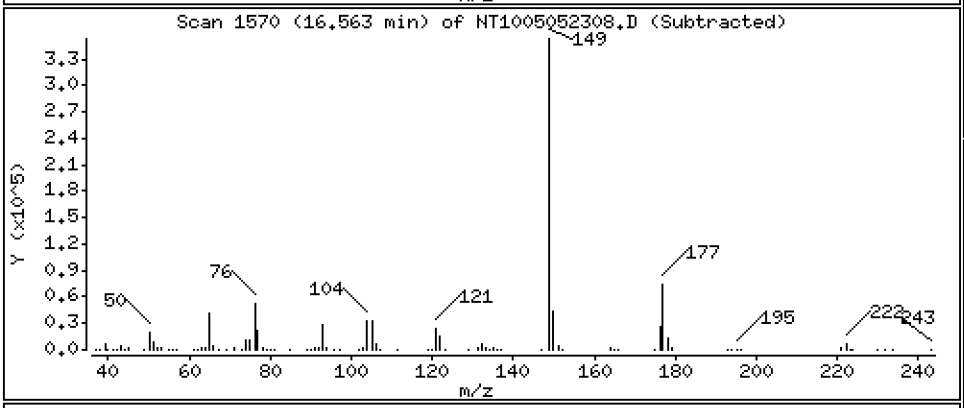
Column diameter: 0.25

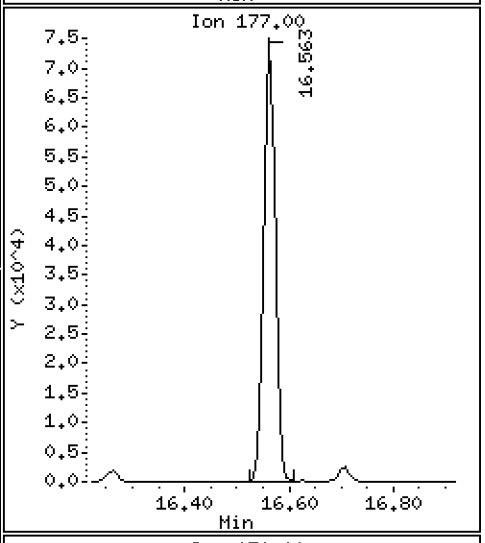
50 Diethylphthalate

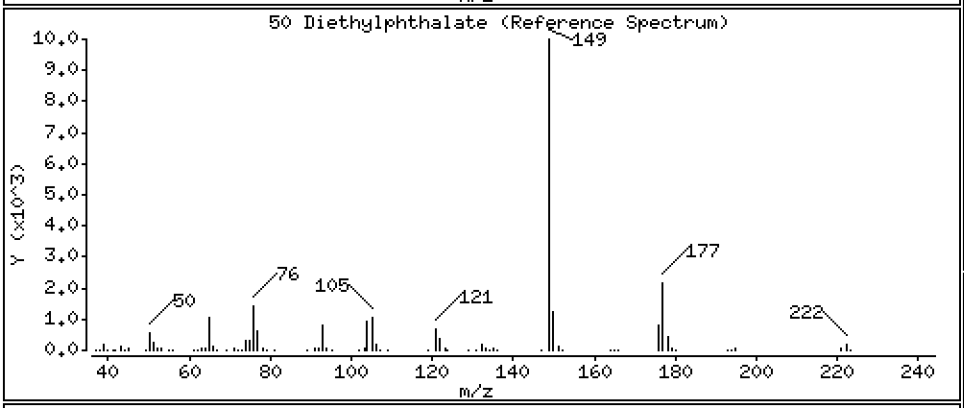
Concentration: 3.967 ug/mL

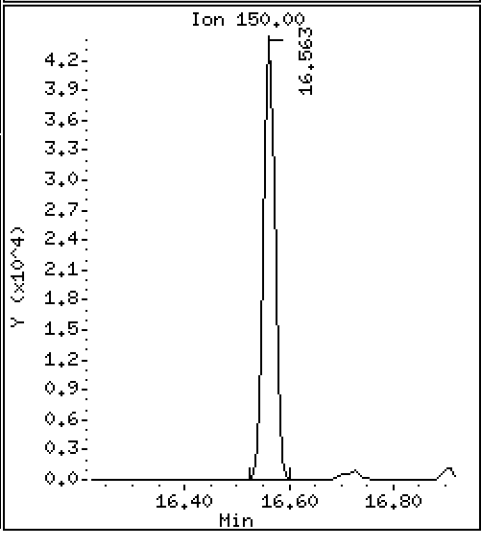


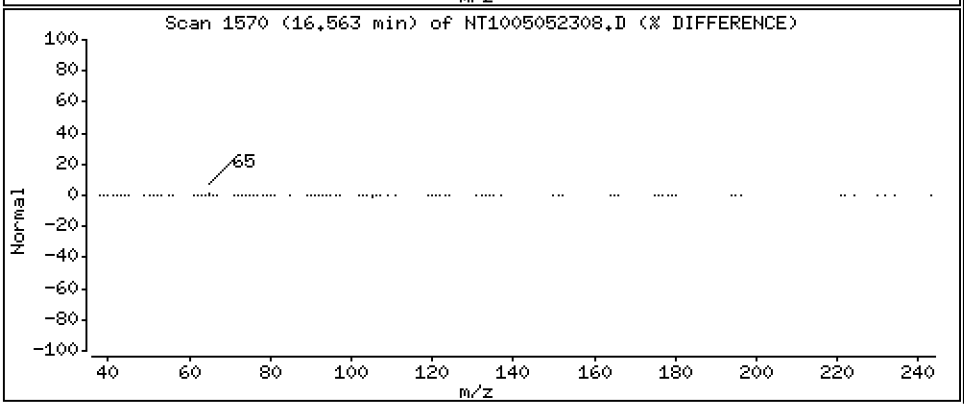












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

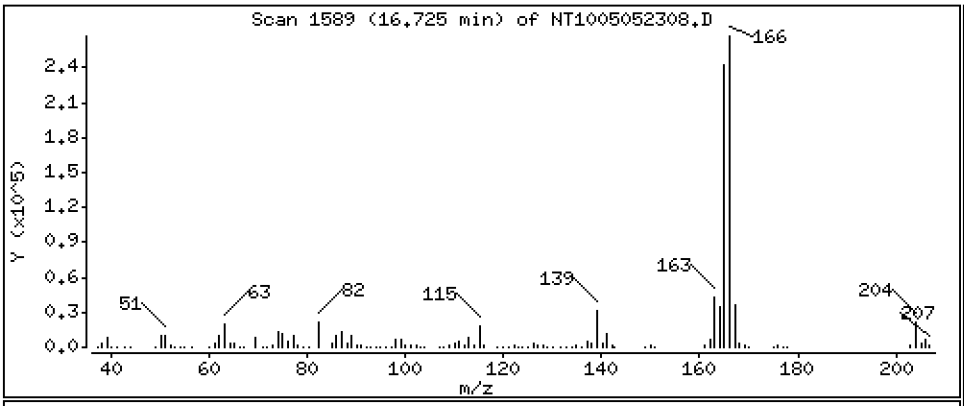
Operator: VTS

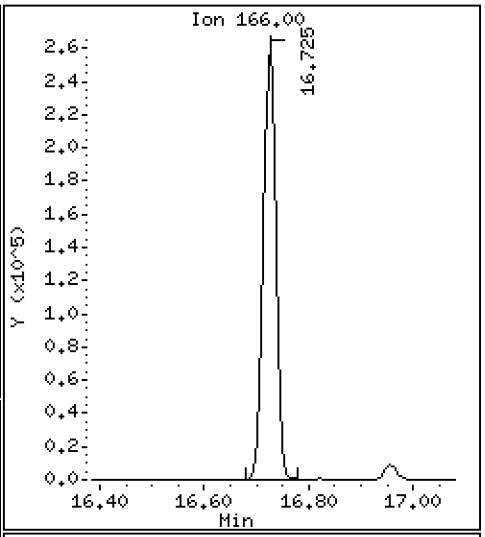
Column phase: ZB-5msi

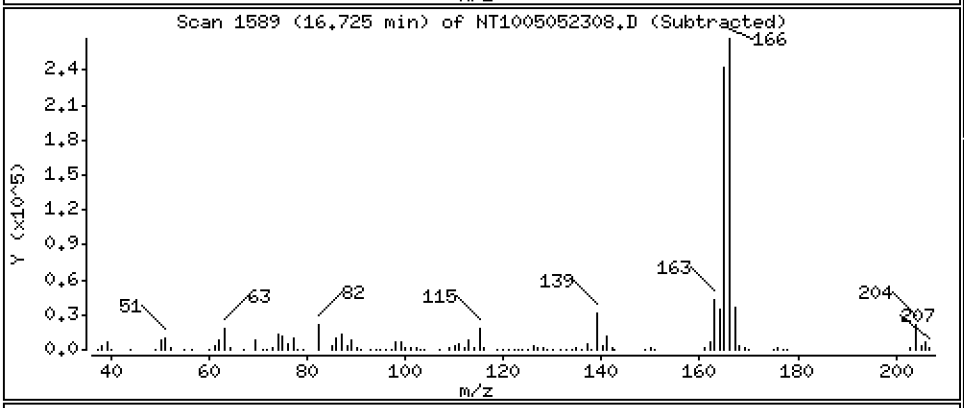
Column diameter: 0.25

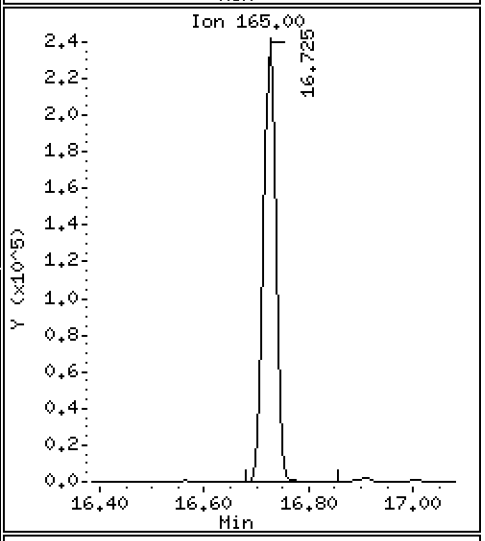
49 Fluorene

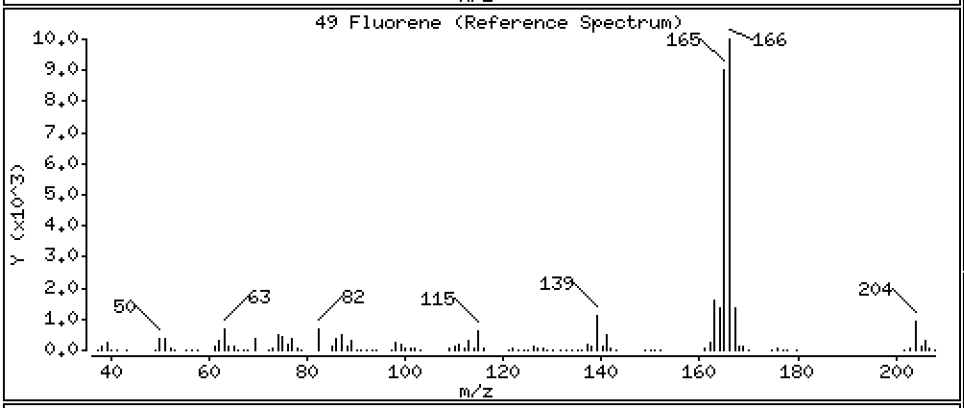
Concentration: 3.165 ug/mL

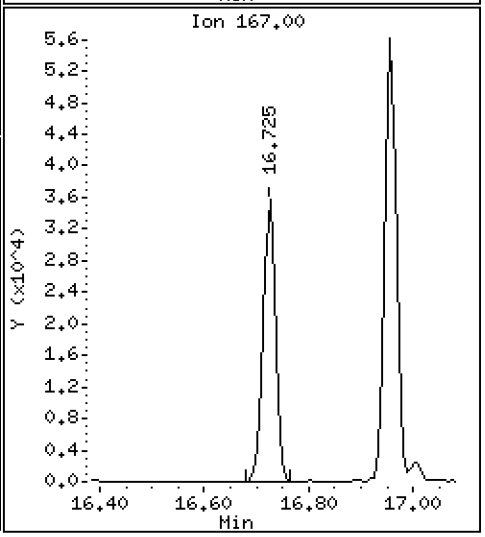


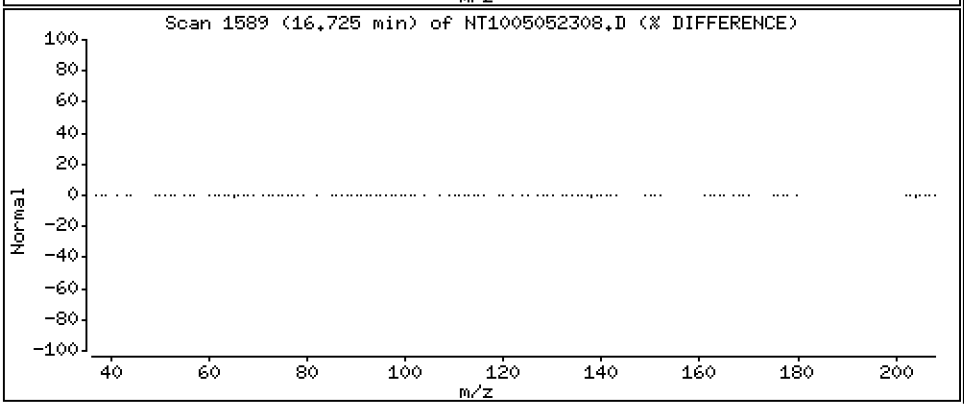












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

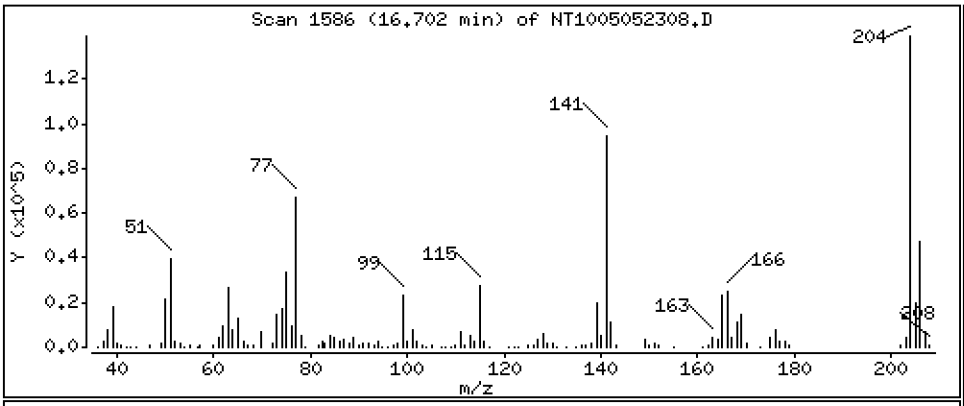
Operator: VTS

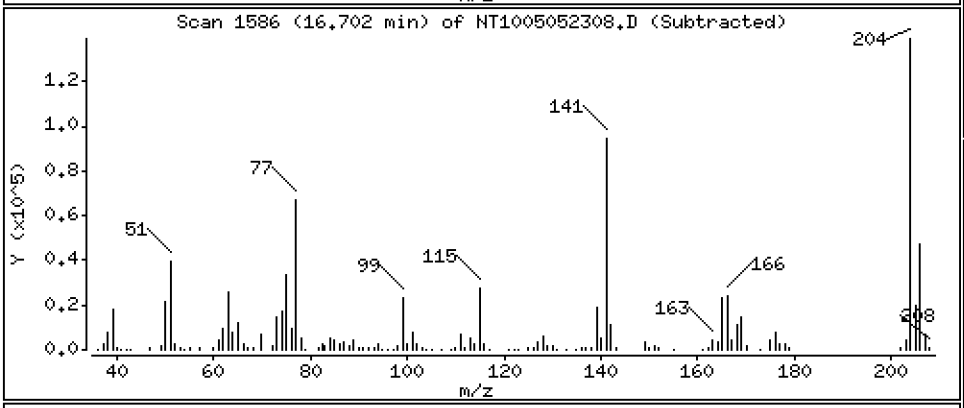
Column phase: ZB-5msi

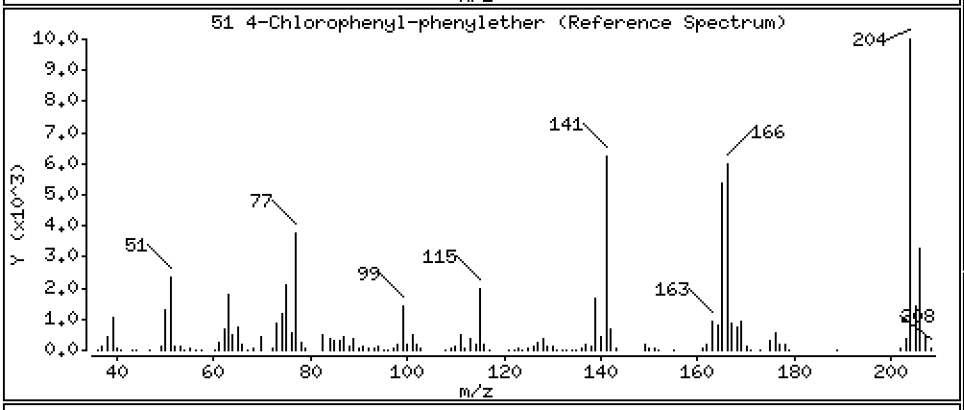
Column diameter: 0.25

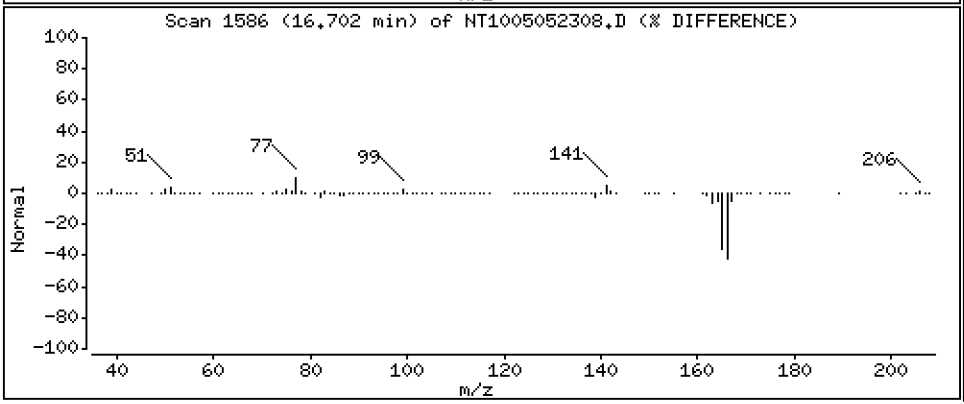
51 4-Chlorophenyl-phenylether

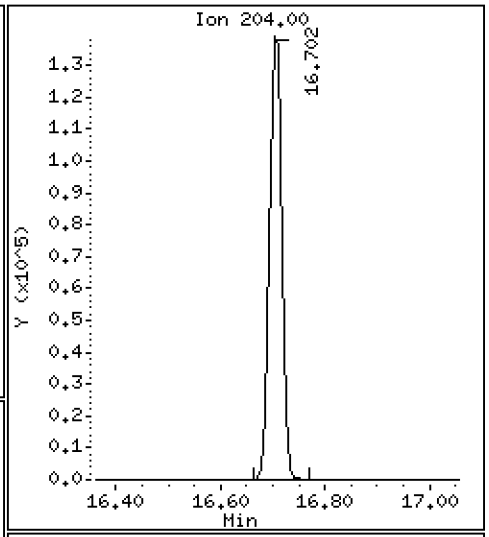
Concentration: 3.346 ug/mL

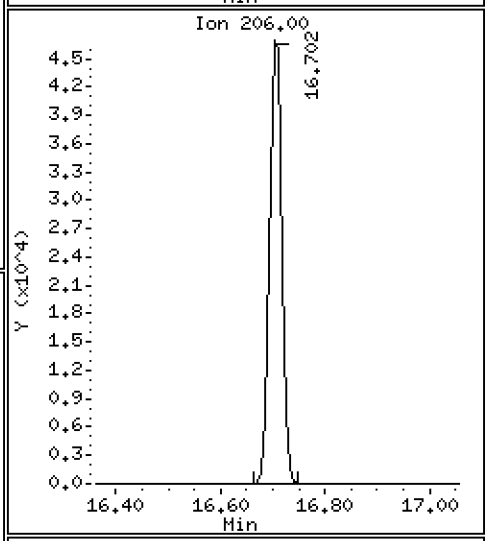


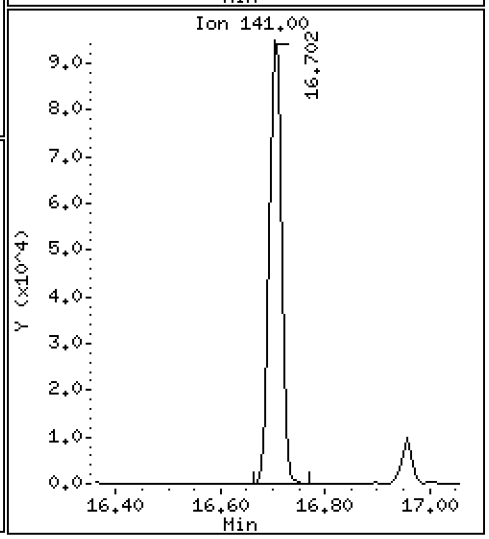












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

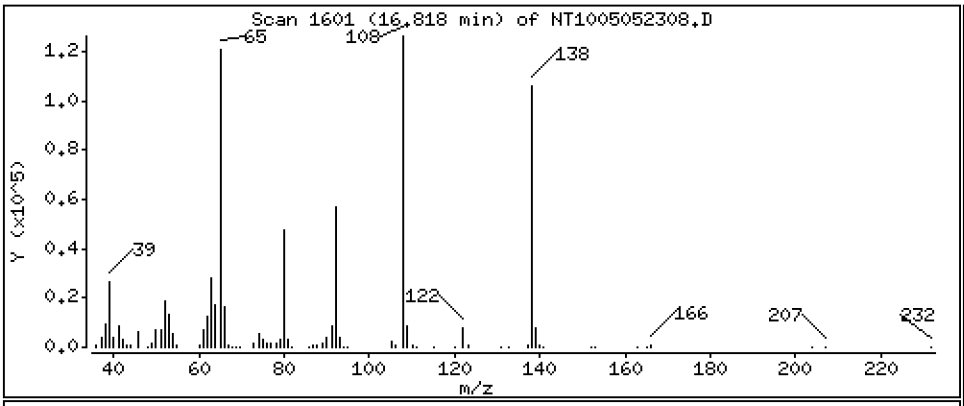
Operator: VTS

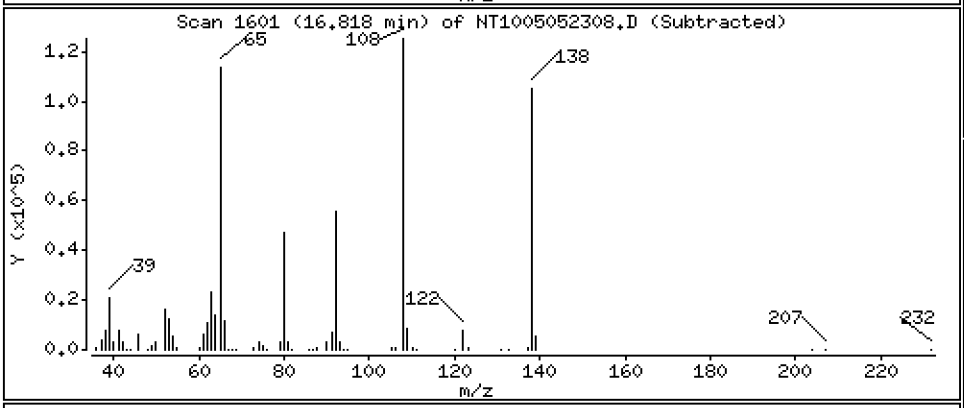
Column phase: ZB-5msi

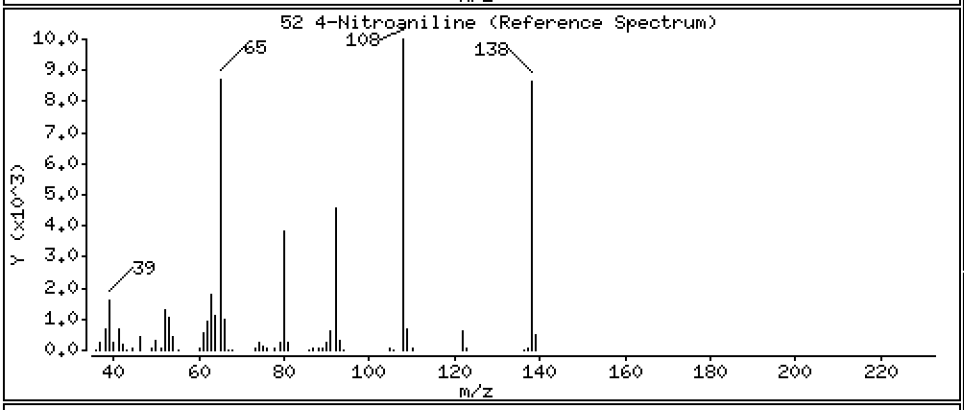
Column diameter: 0.25

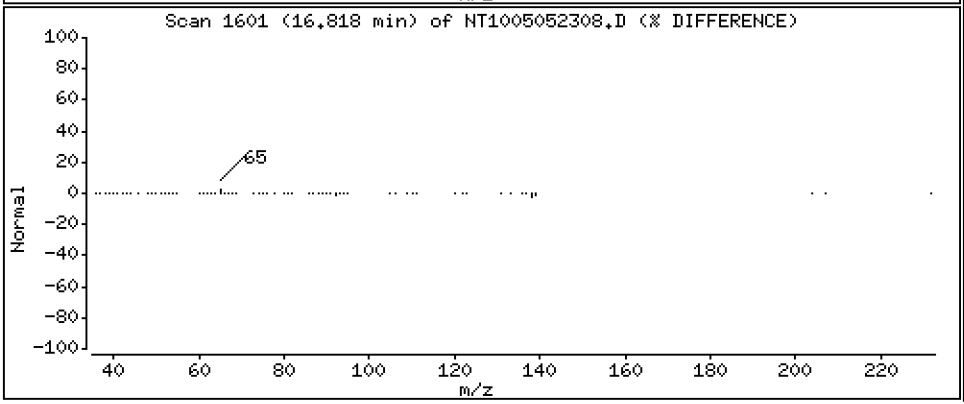
52 4-Nitroaniline

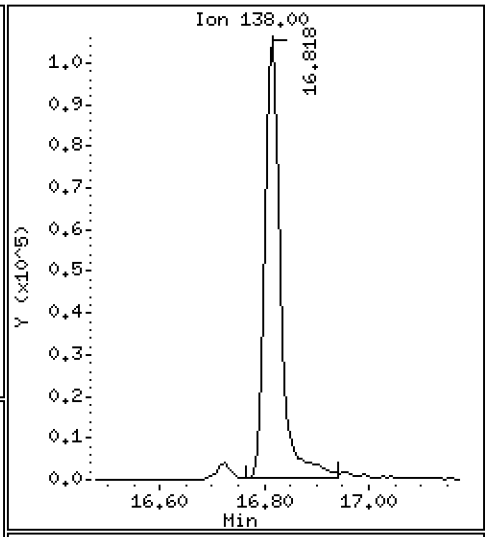
Concentration: 8.008 ug/mL

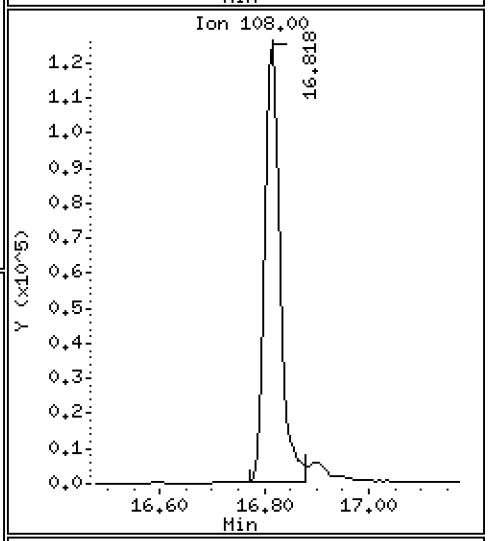


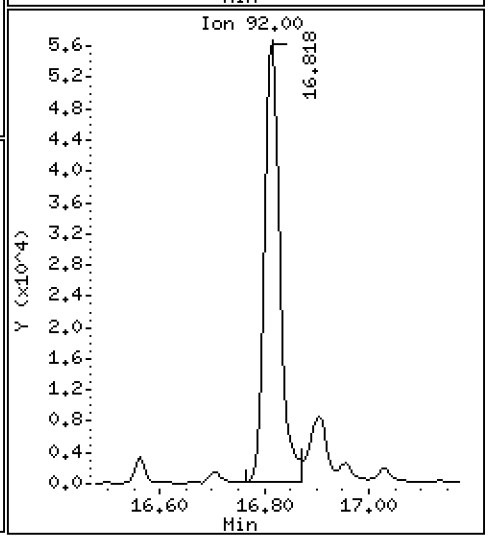












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

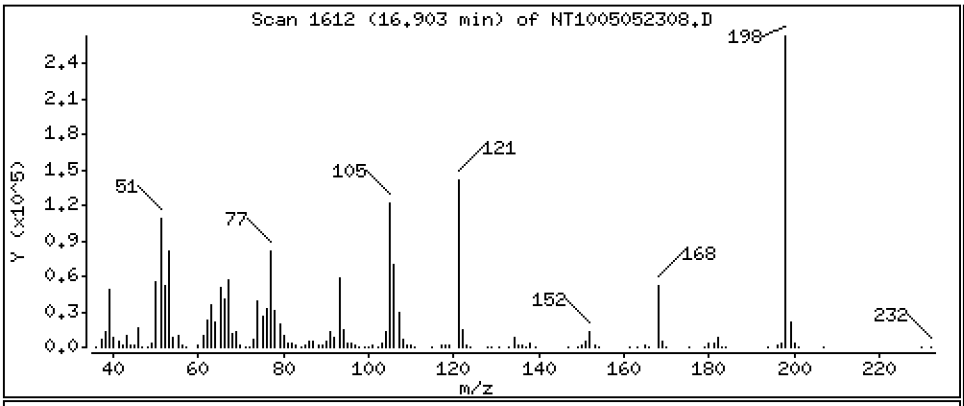
Operator: VTS

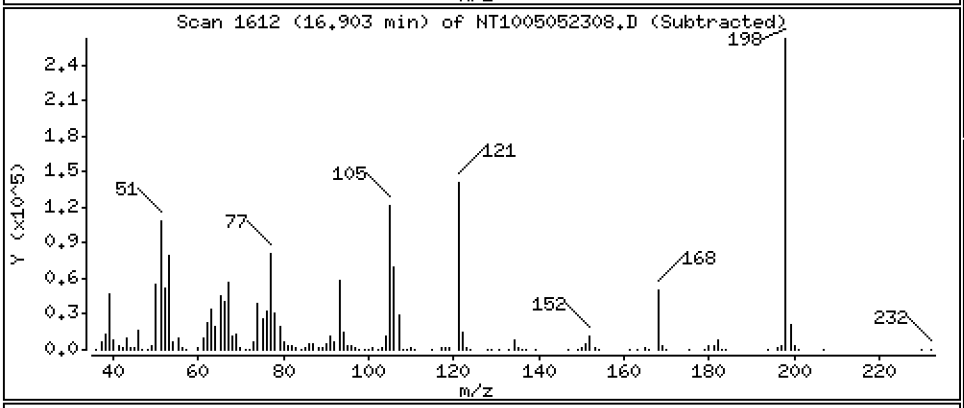
Column phase: ZB-5msi

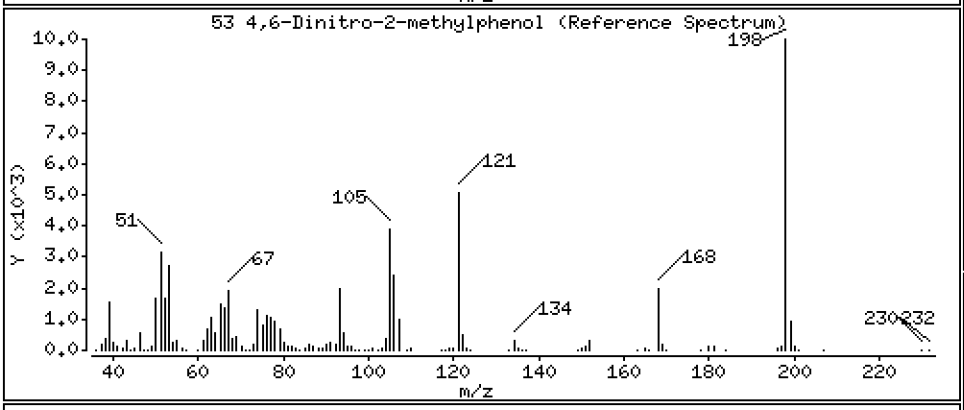
Column diameter: 0.25

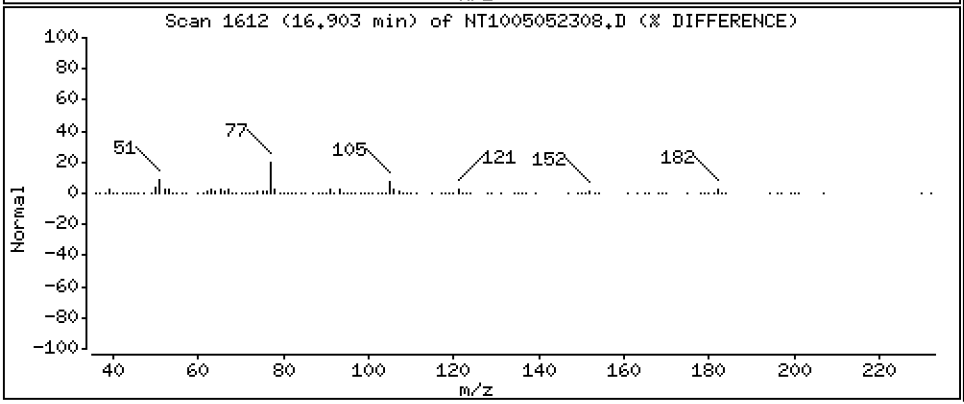
53 4,6-Dinitro-2-methylphenol

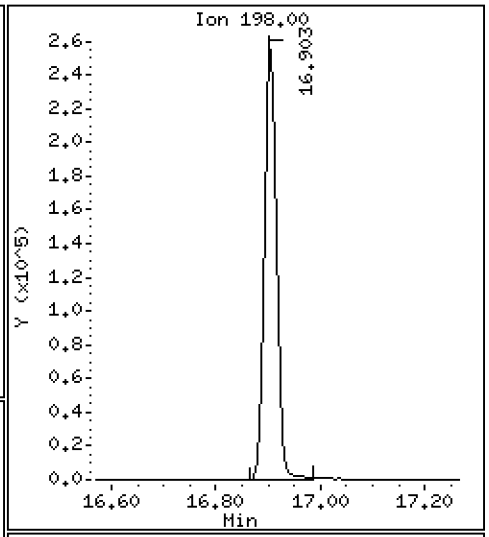
Concentration: 17.47 ug/mL

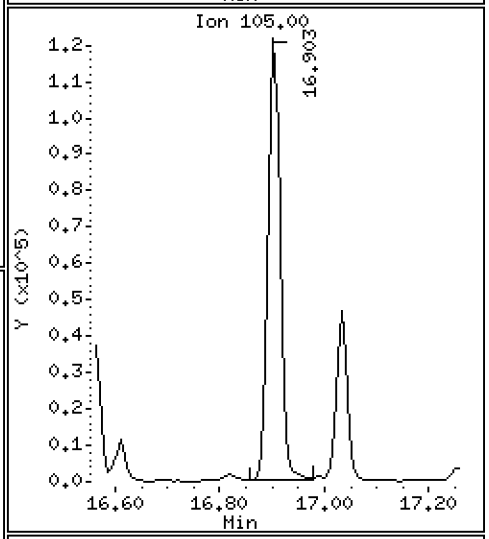


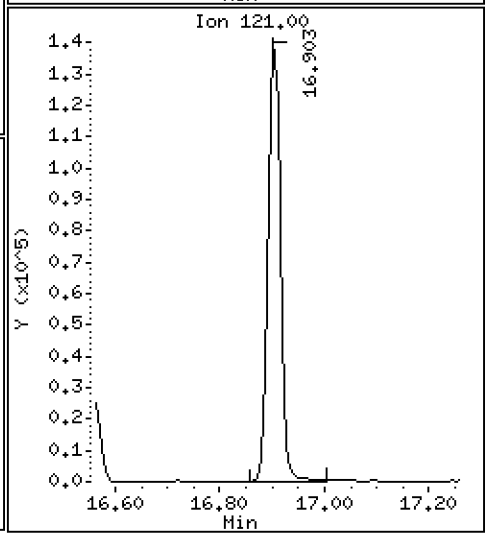












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

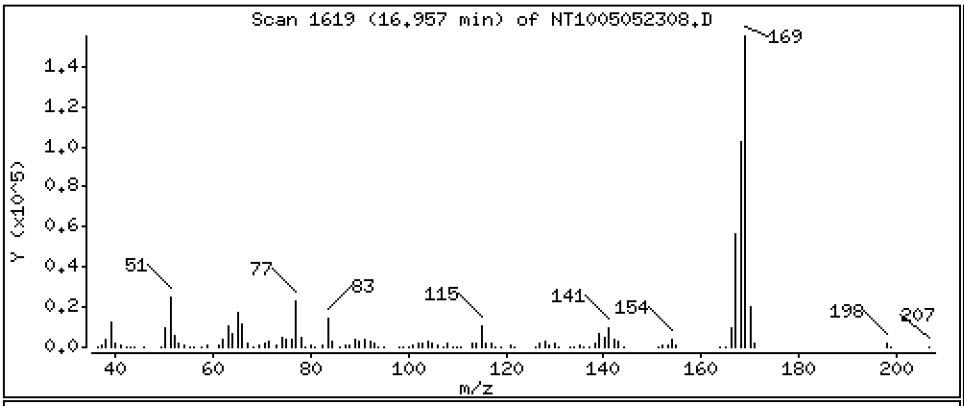
Operator: VTS

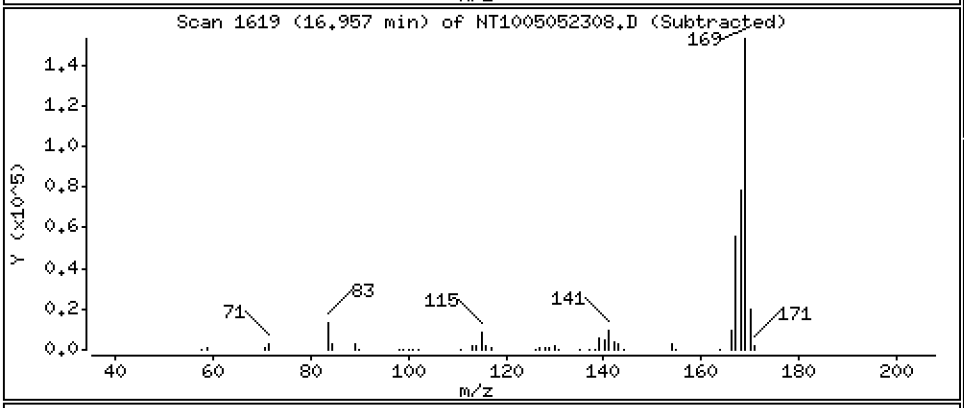
Column phase: ZB-5msi

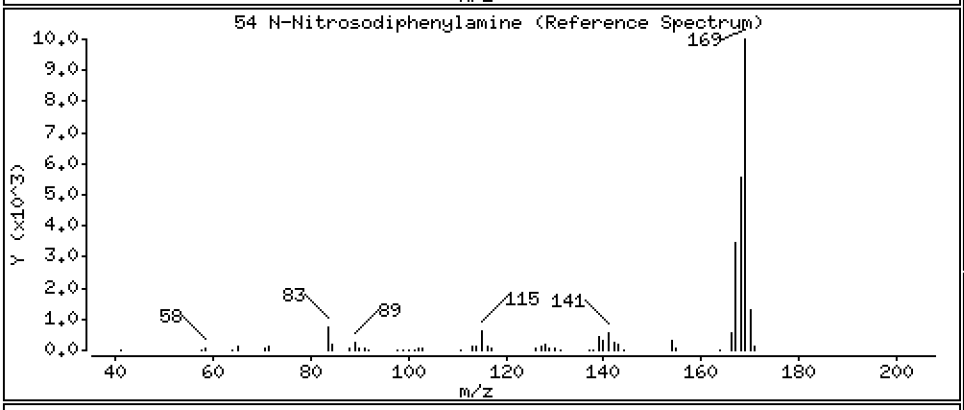
Column diameter: 0.25

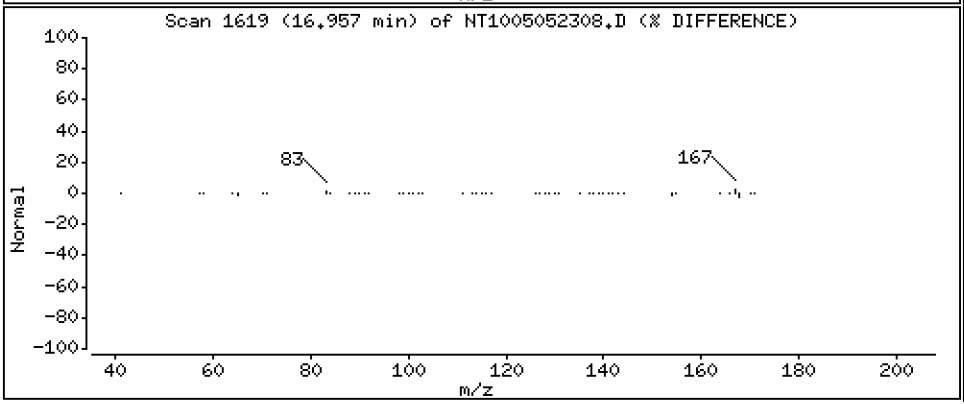
54 N-Nitrosodiphenylamine

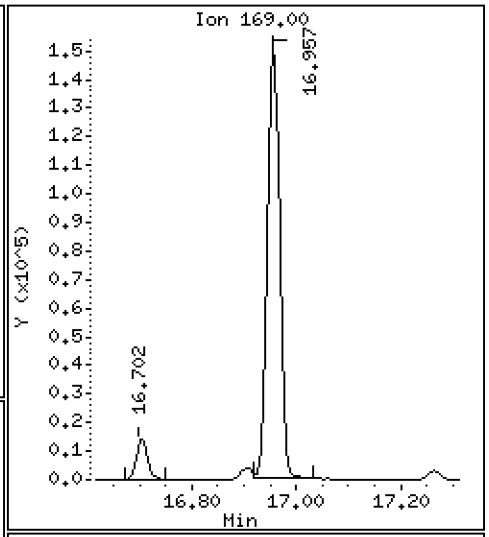
Concentration: 3.106 ug/mL

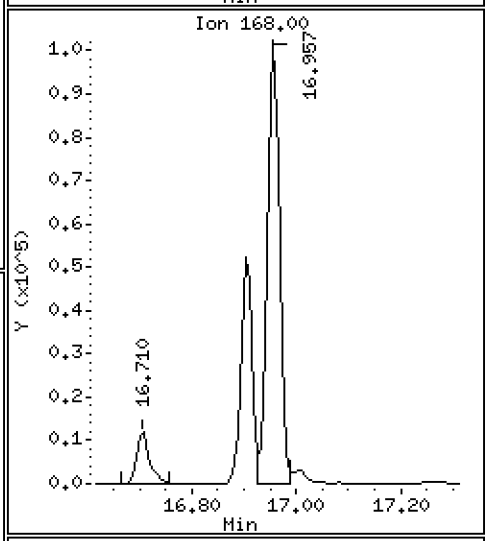


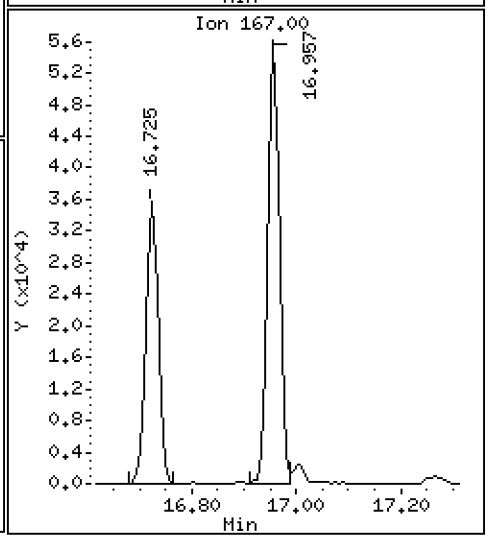












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

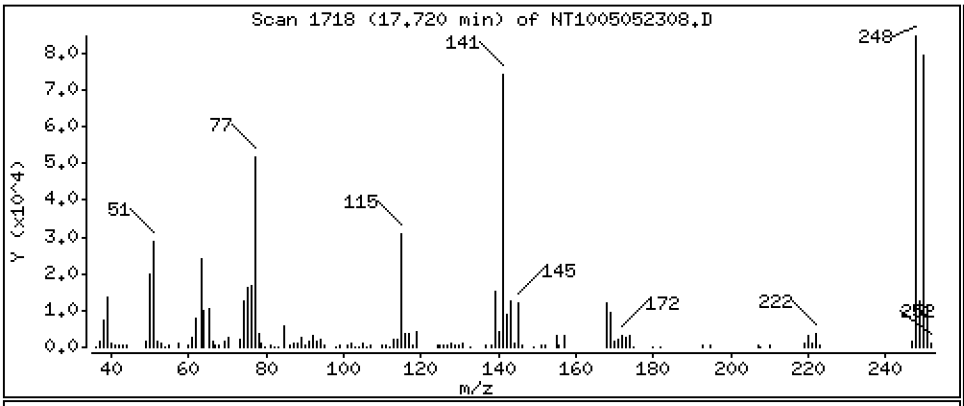
Operator: VTS

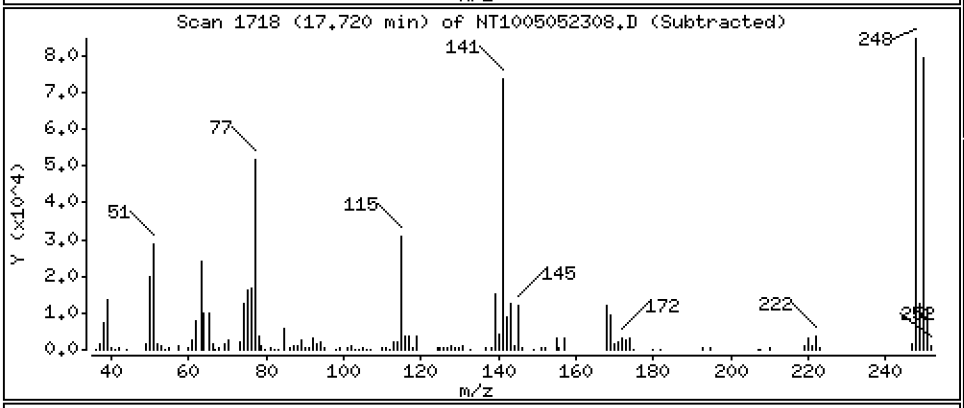
Column phase: ZB-5msi

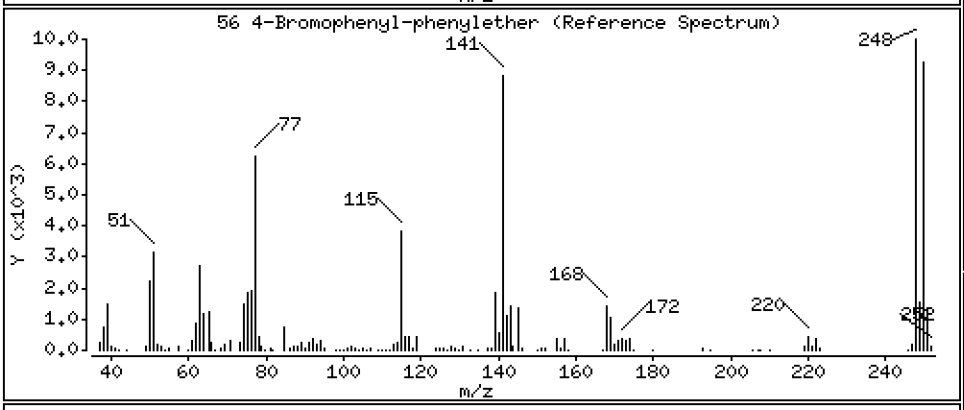
Column diameter: 0.25

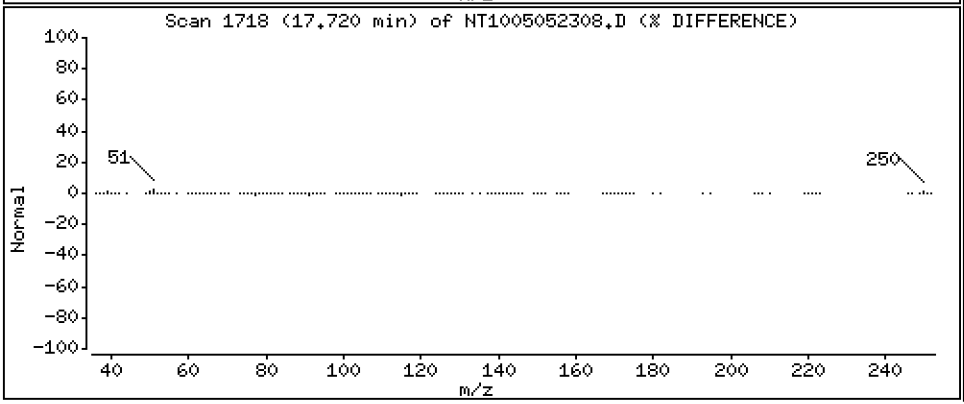
56 4-Bromophenyl-phenylether

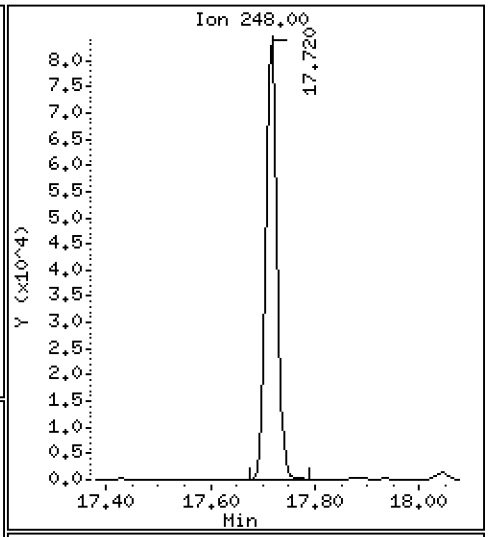
Concentration: 3.678 ug/mL

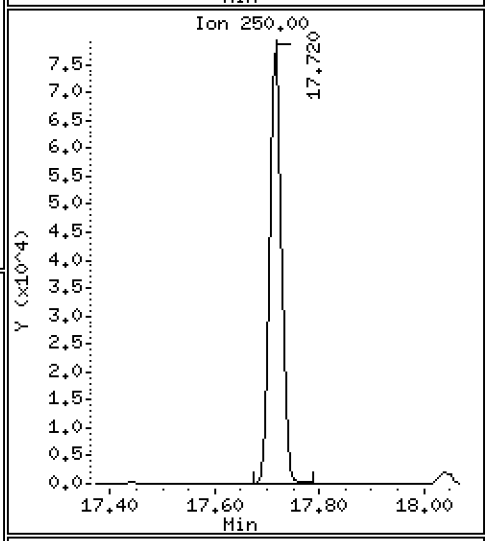


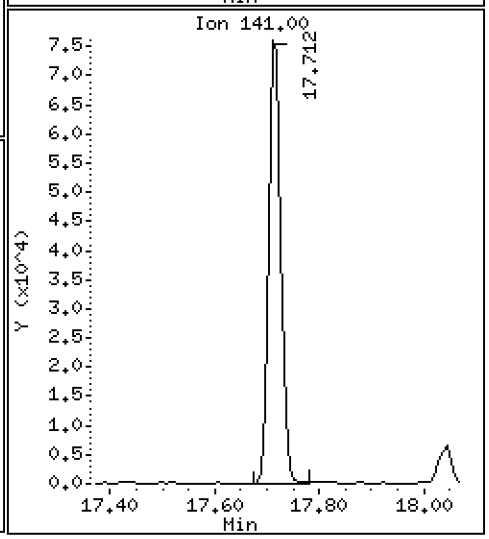












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

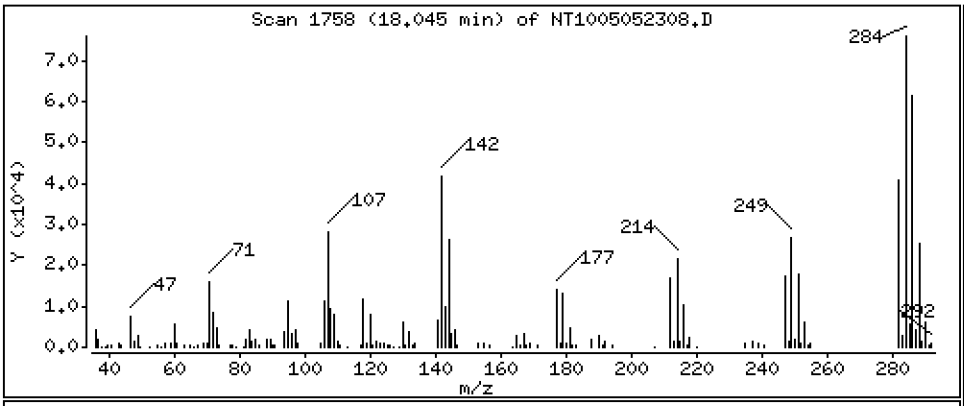
Operator: VTS

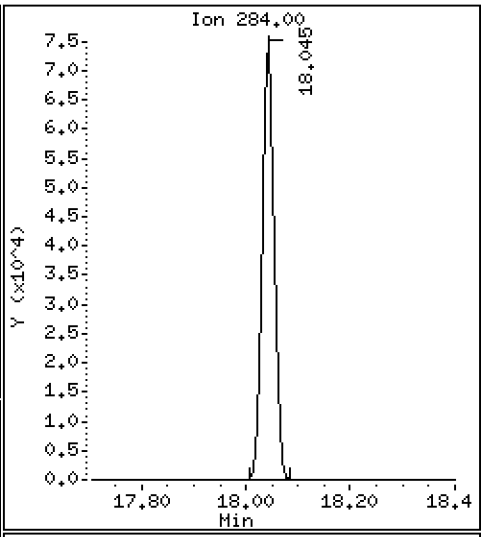
Column phase: ZB-5msi

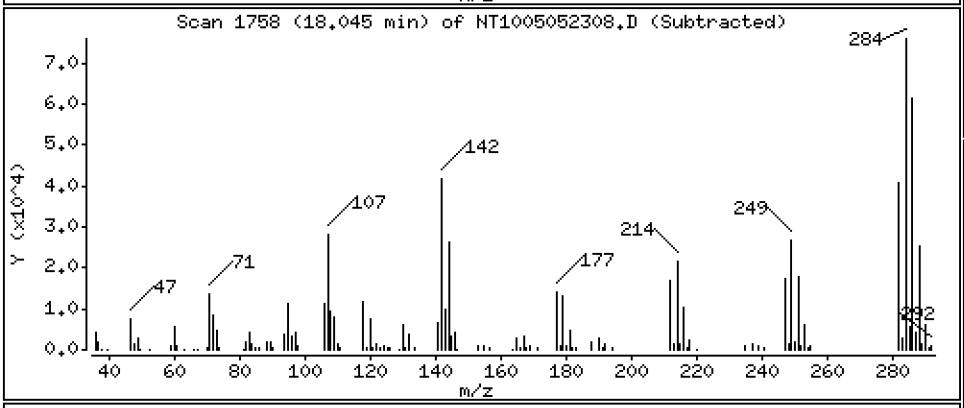
Column diameter: 0.25

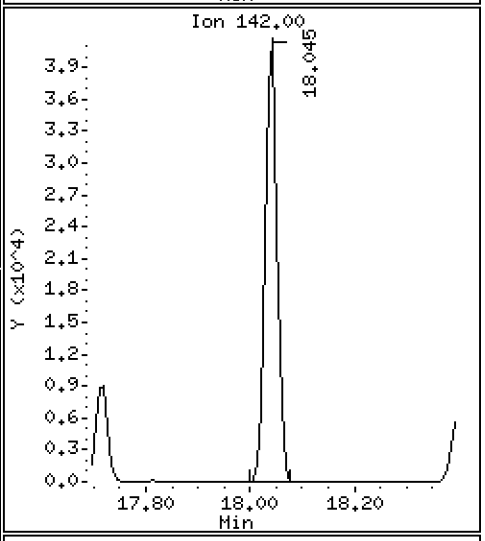
57 Hexachlorobenzene

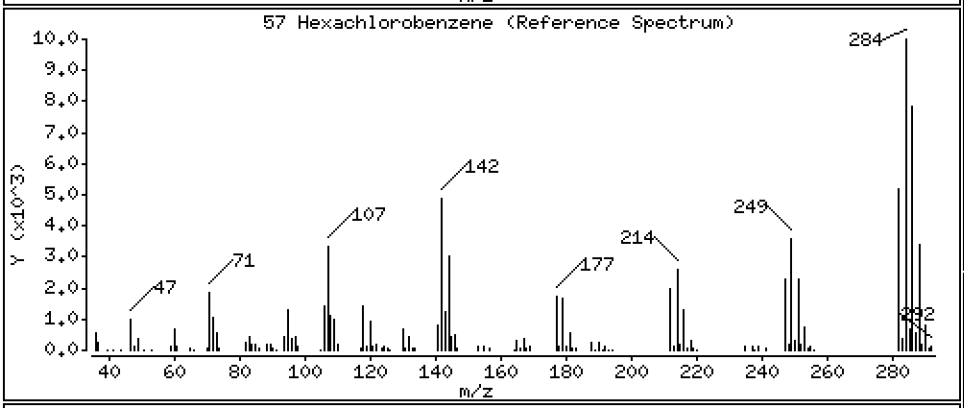
Concentration: 3.274 ug/mL

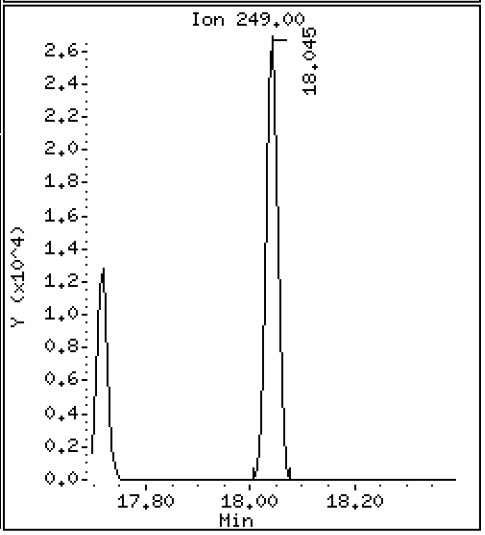


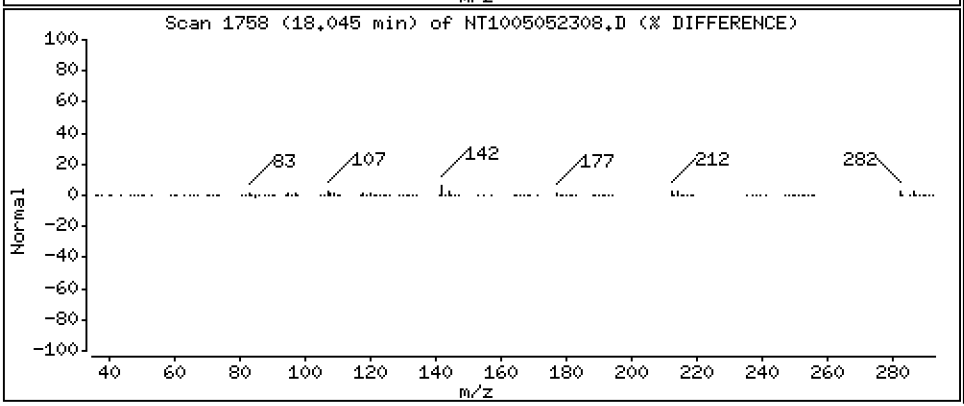












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

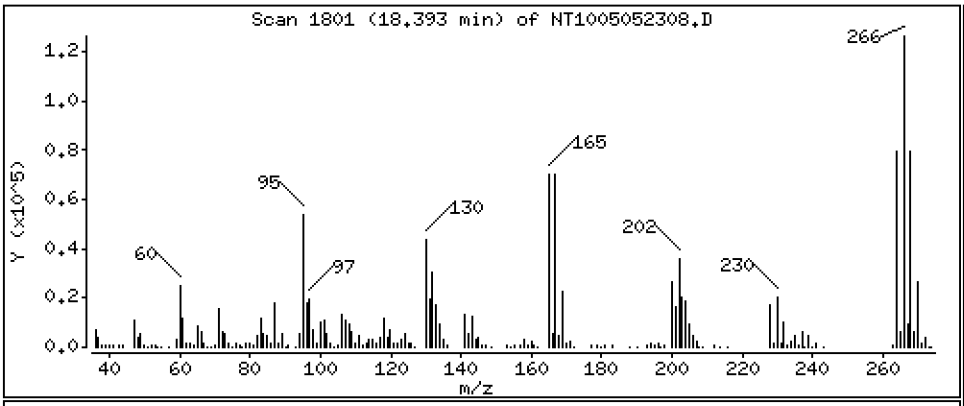
Operator: VTS

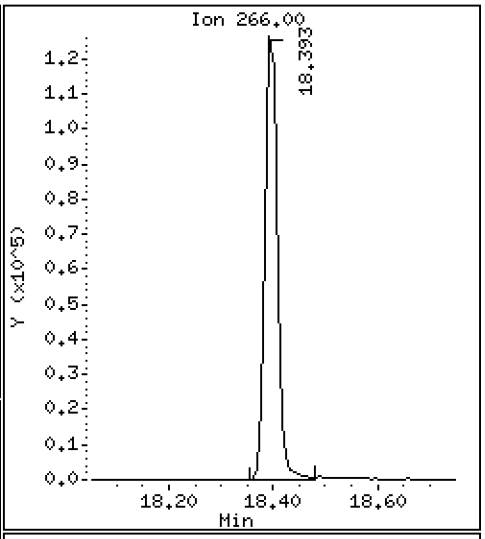
Column phase: ZB-5msi

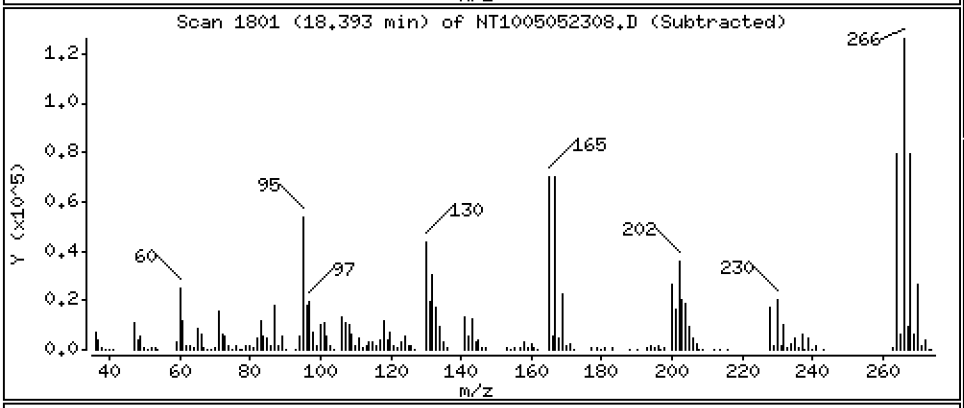
Column diameter: 0.25

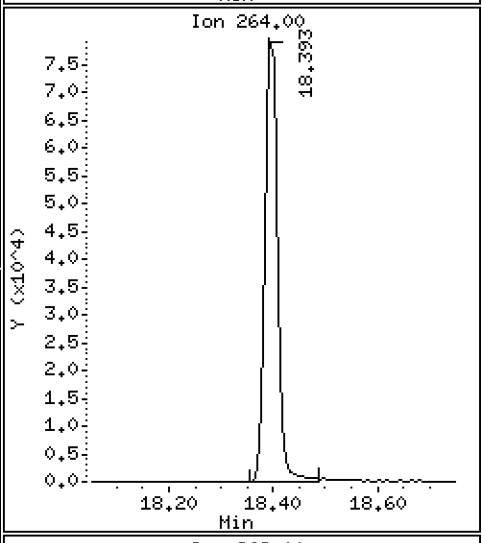
58 Pentachlorophenol

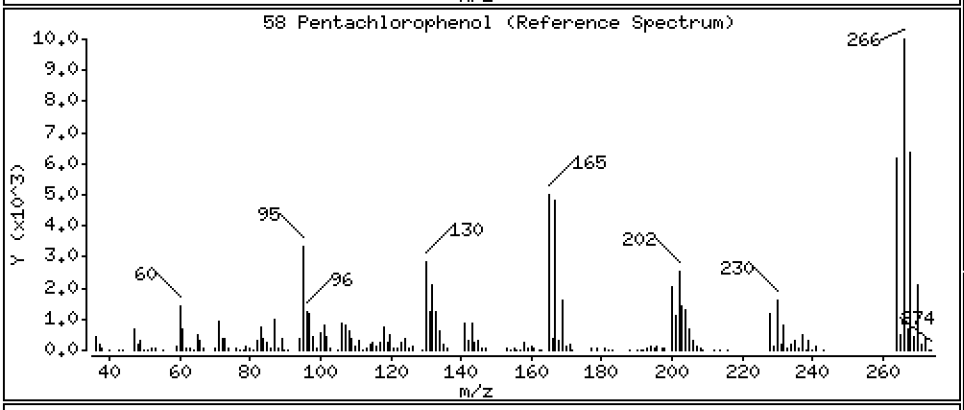
Concentration: 7.820 ug/mL

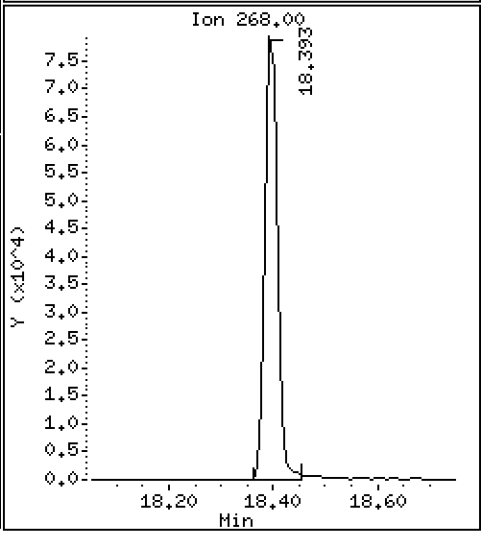


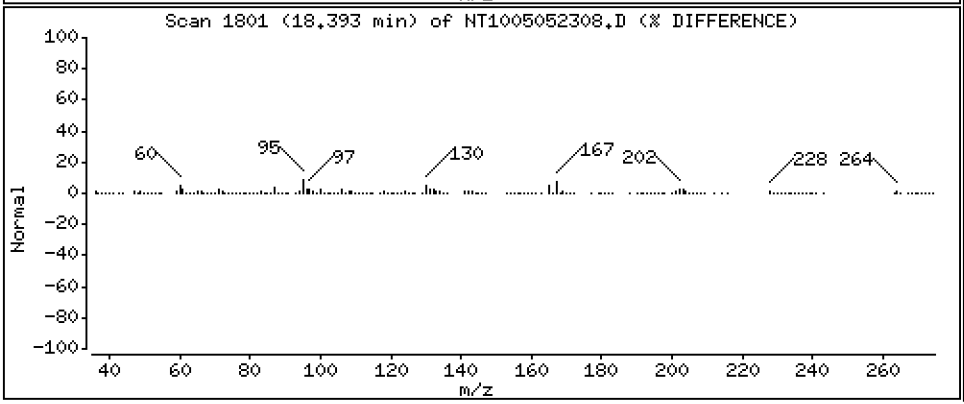












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

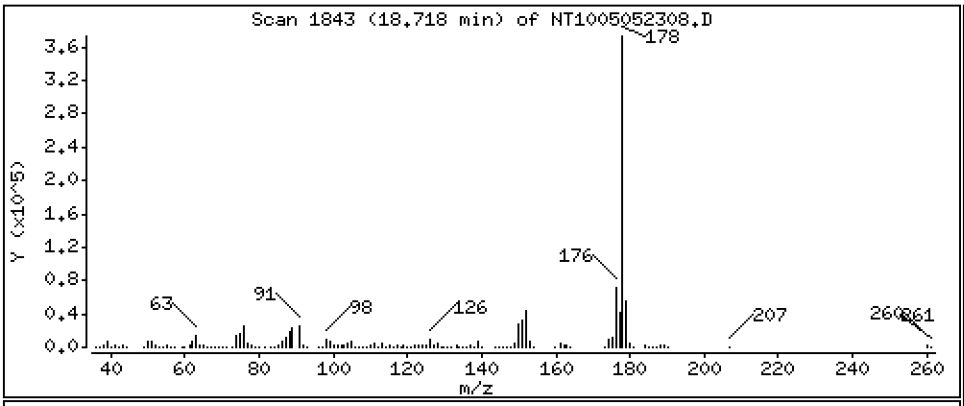
Operator: VTS

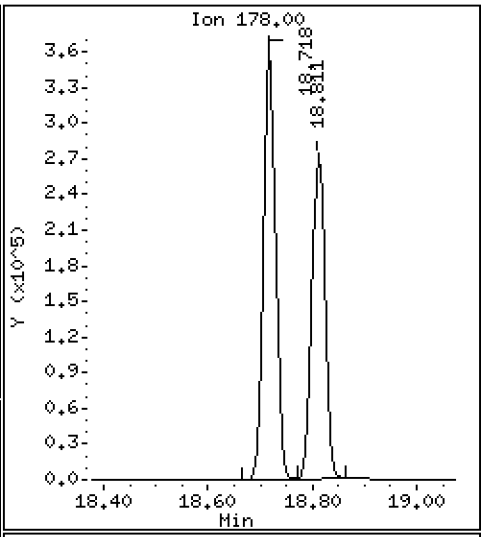
Column phase: ZB-5msi

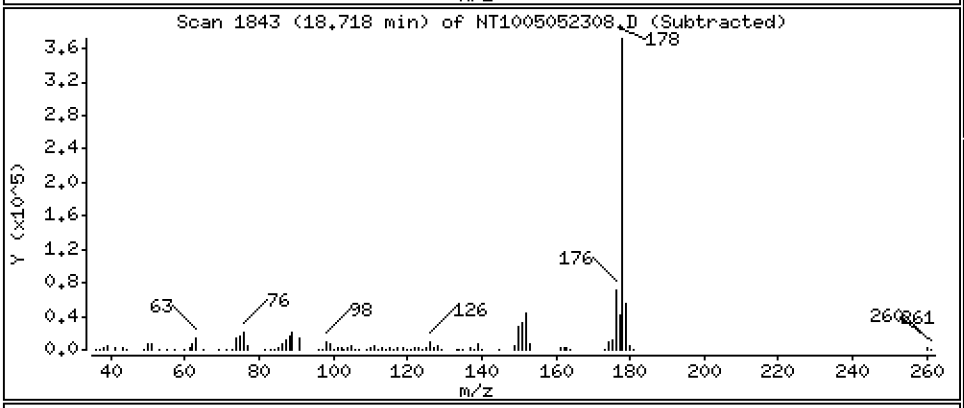
Column diameter: 0.25

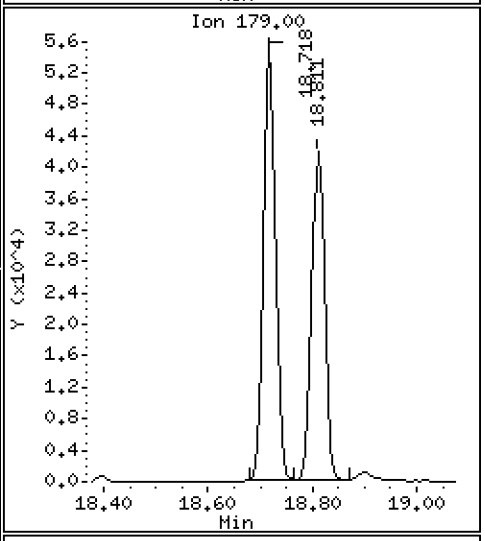
60 Phenanthrene

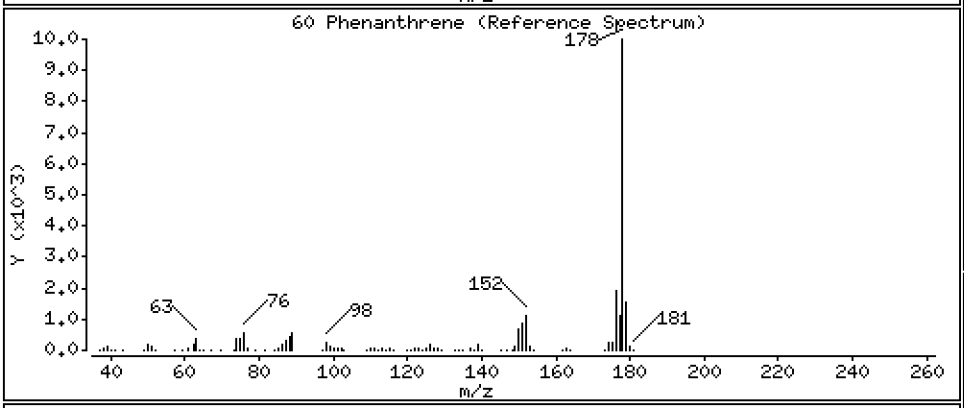
Concentration: 3.409 ug/mL

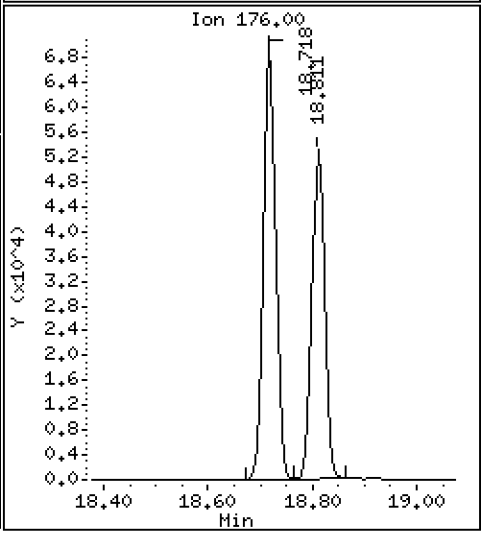


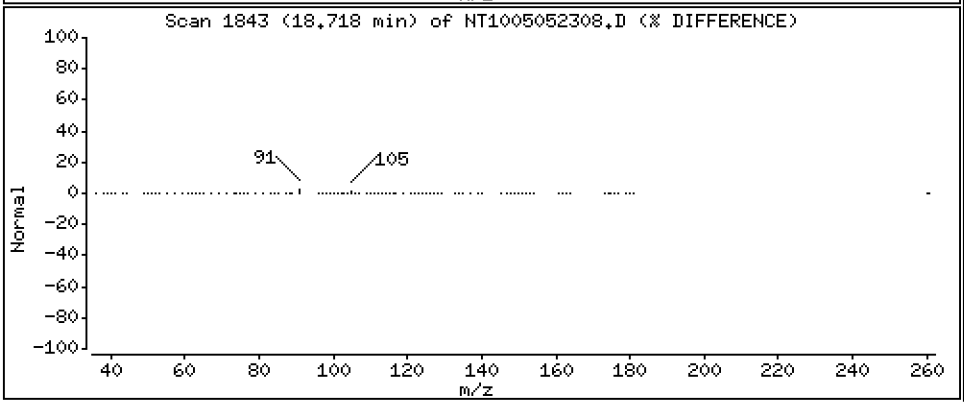












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

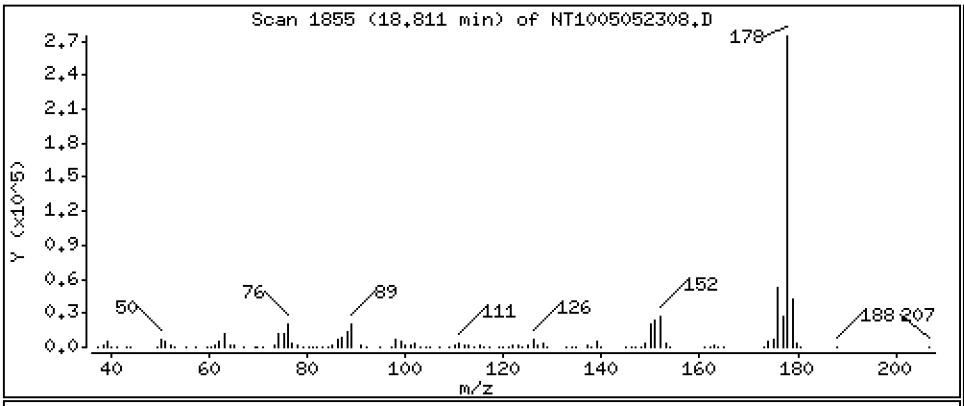
Operator: VTS

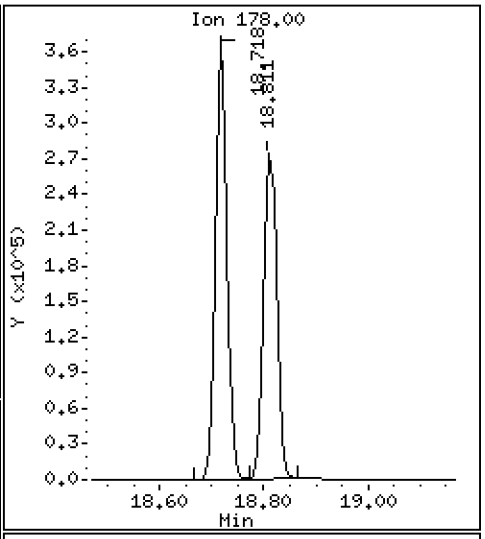
Column phase: ZB-5msi

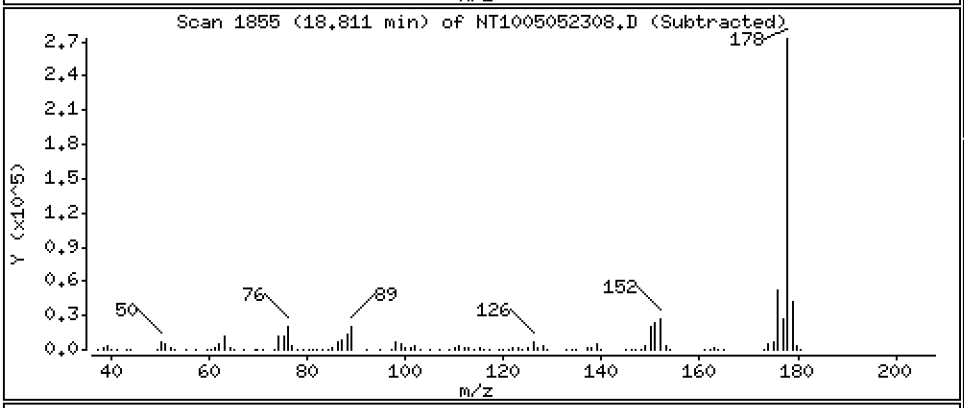
Column diameter: 0.25

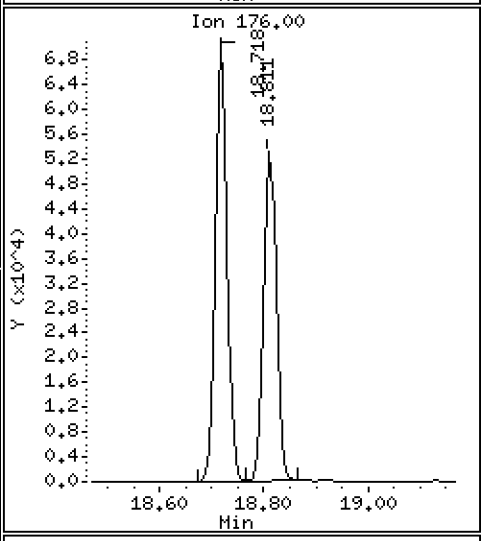
61 Anthracene

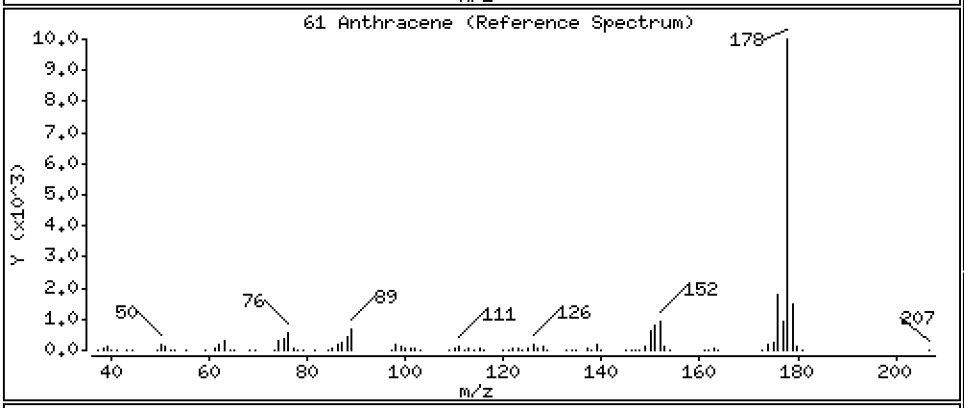
Concentration: 2.953 ug/mL

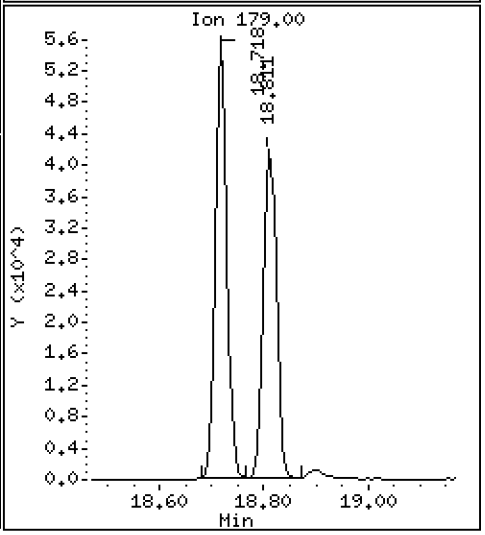


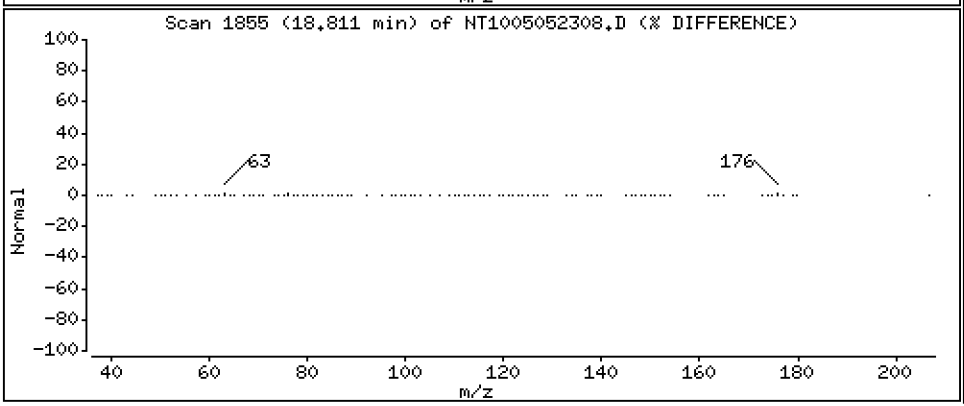












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

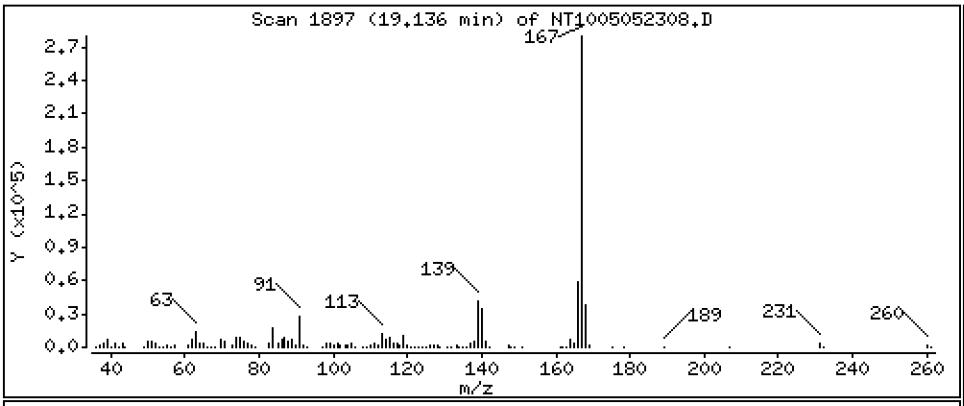
Operator: VTS

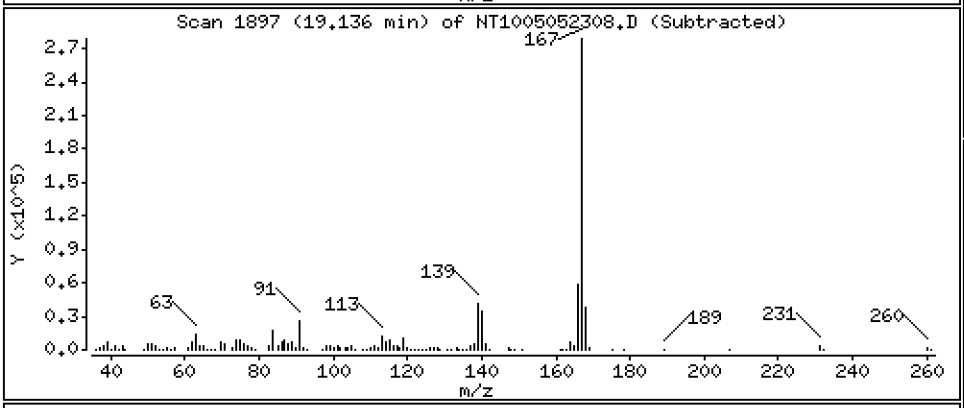
Column phase: ZB-5msi

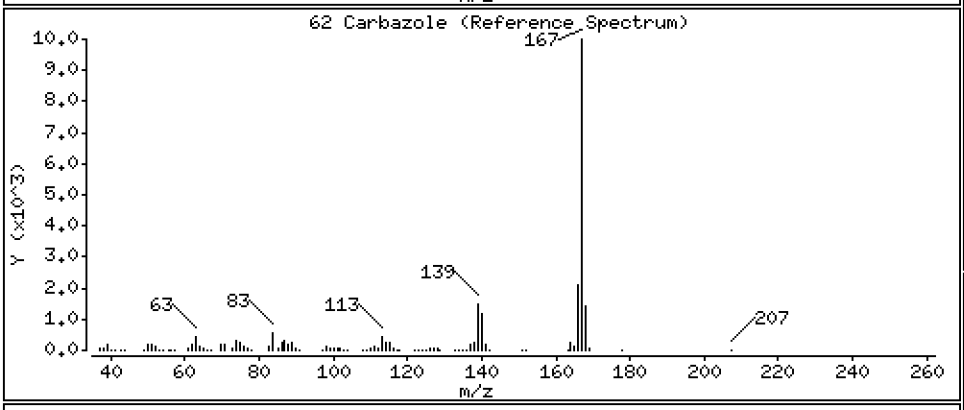
Column diameter: 0.25

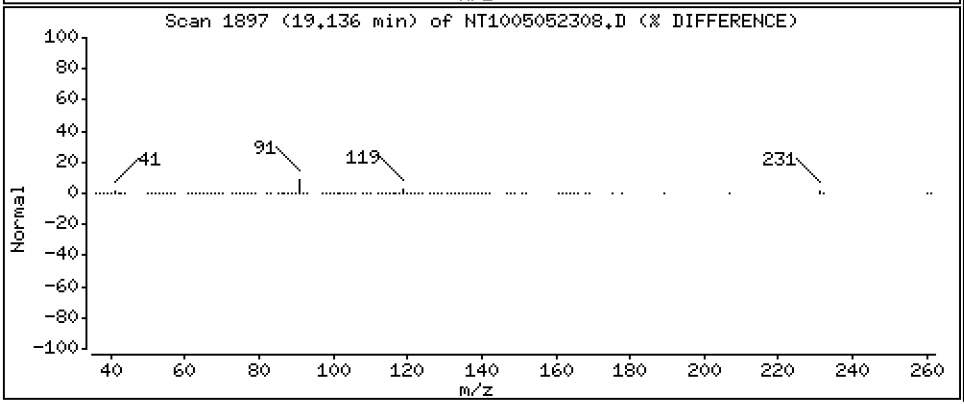
62 Carbazole

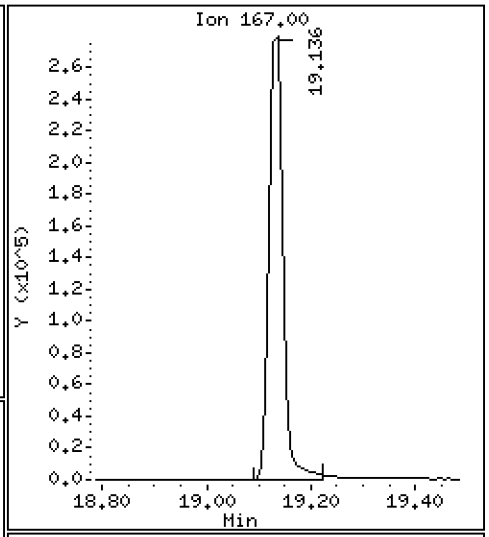
Concentration: 3.629 ug/mL

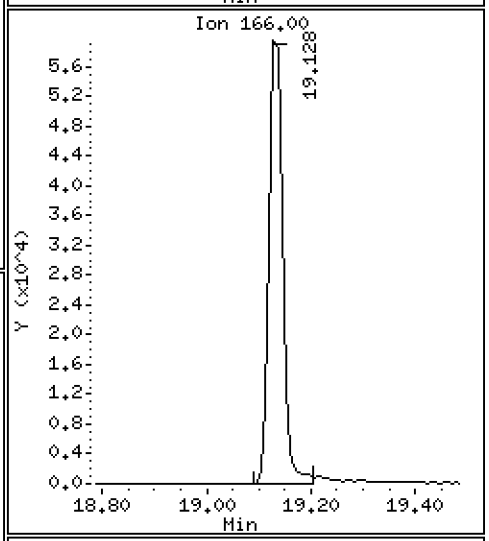


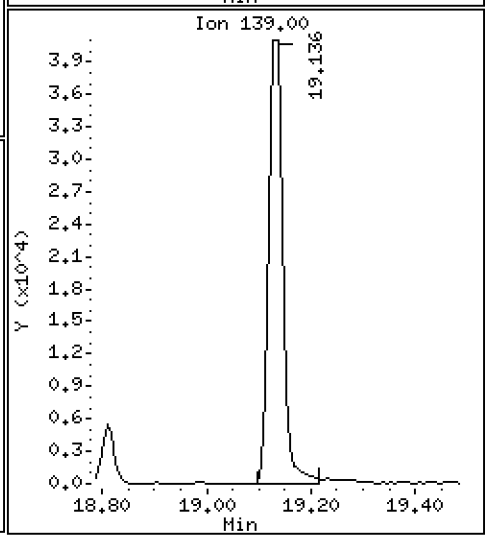












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

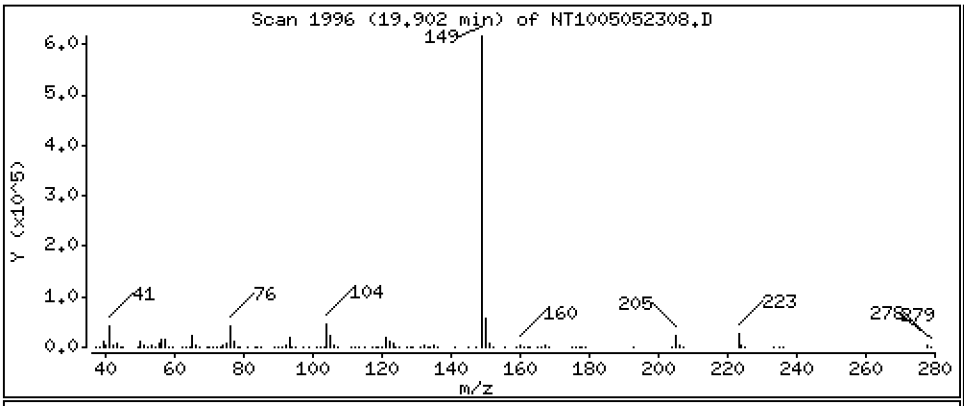
Operator: VTS

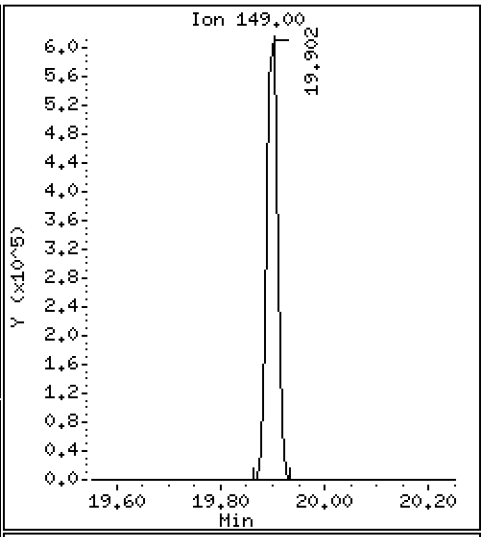
Column phase: ZB-5msi

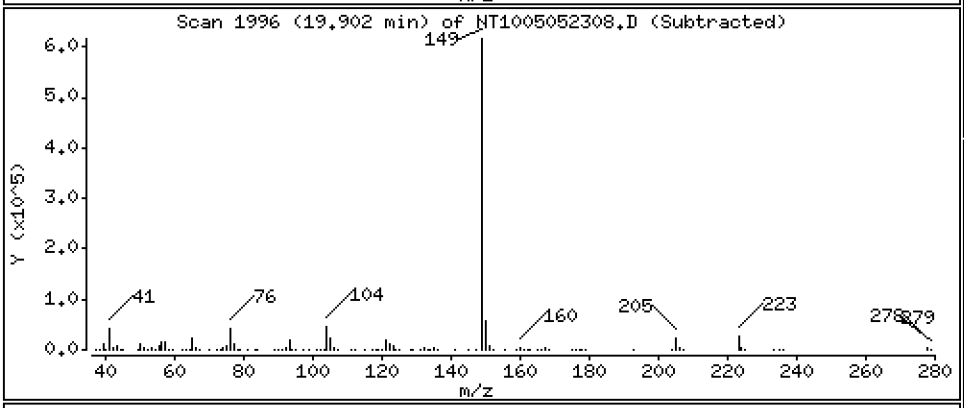
Column diameter: 0.25

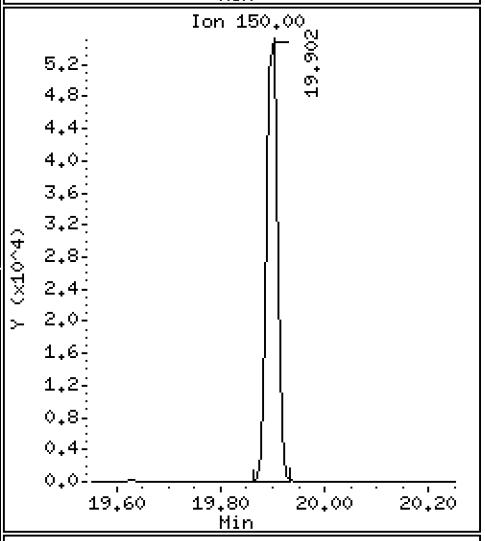
63 Di-n-butylphthalate

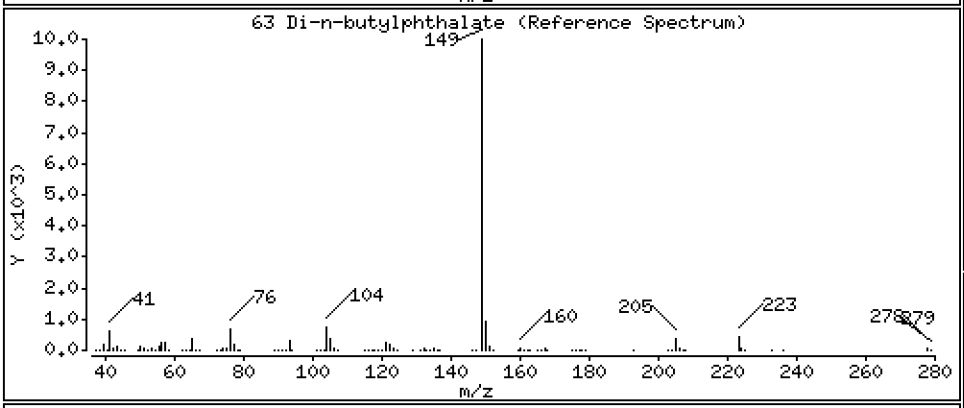
Concentration: 3.990 ug/mL

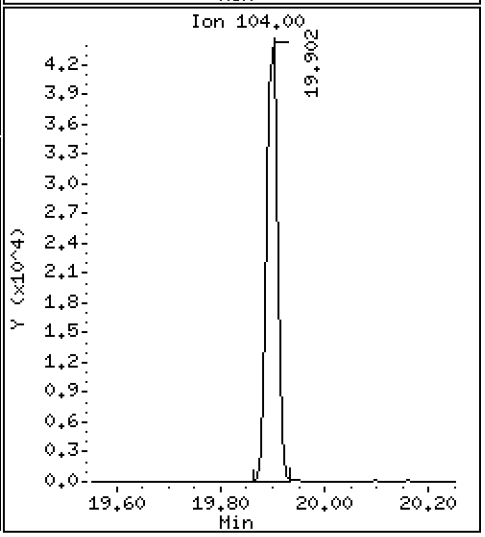


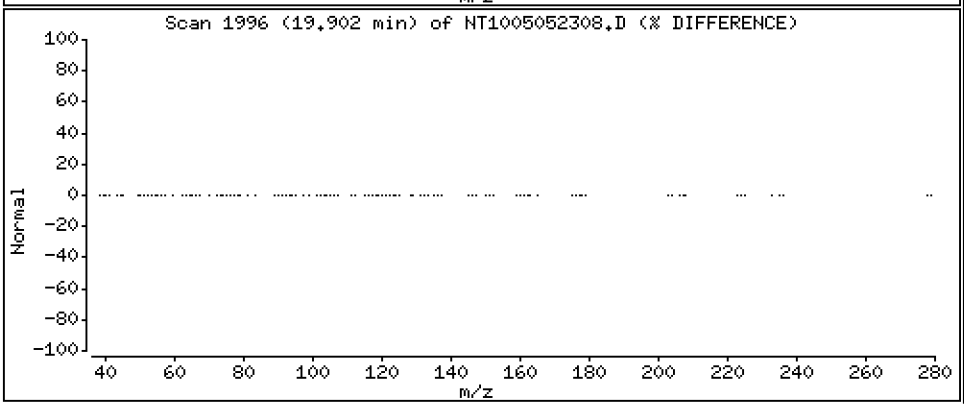












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

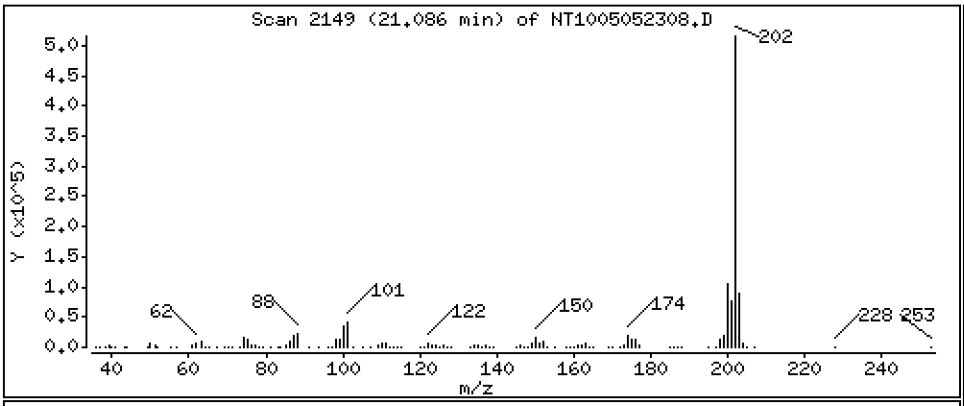
Operator: VTS

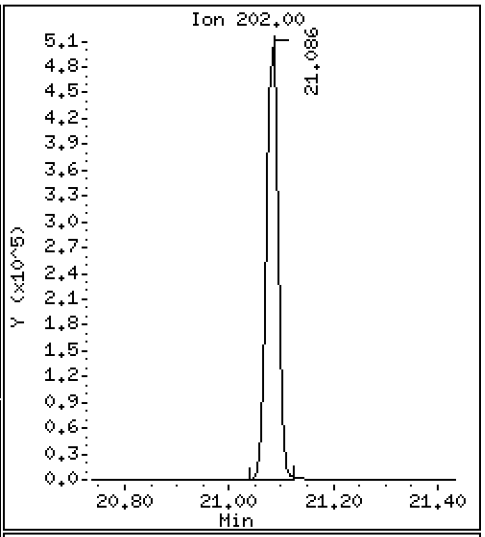
Column phase: ZB-5msi

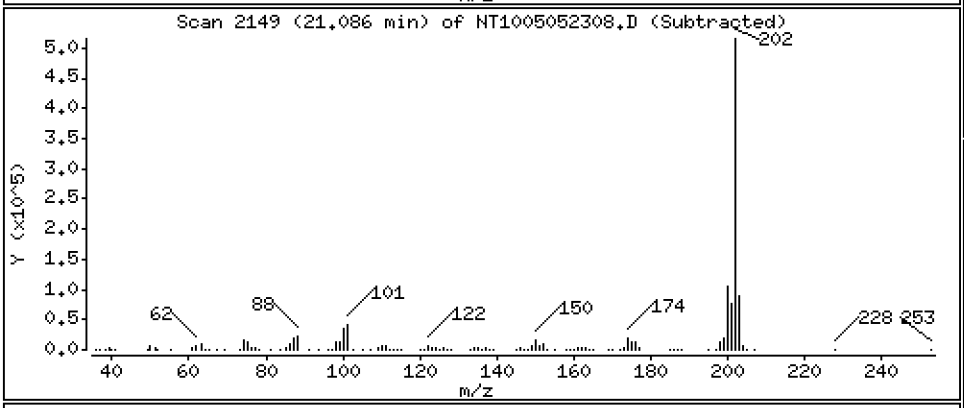
Column diameter: 0.25

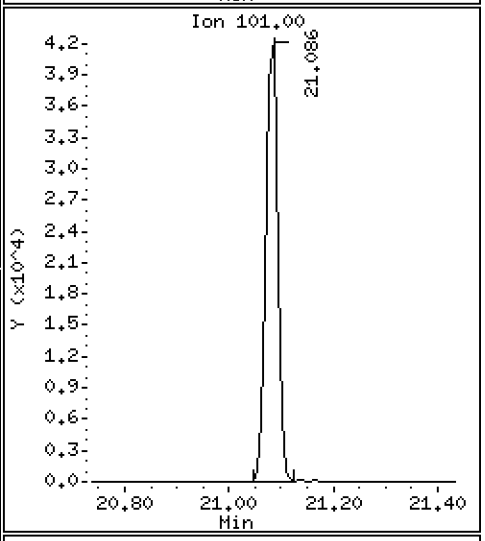
64 Fluoranthene

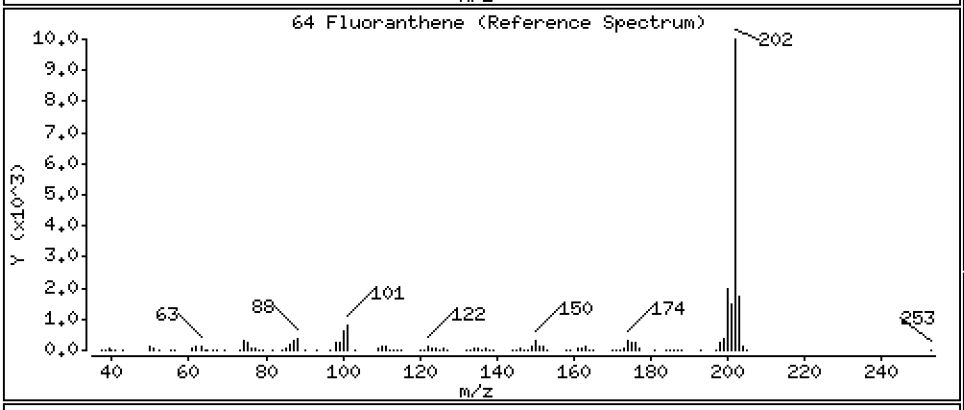
Concentration: 3.542 ug/mL

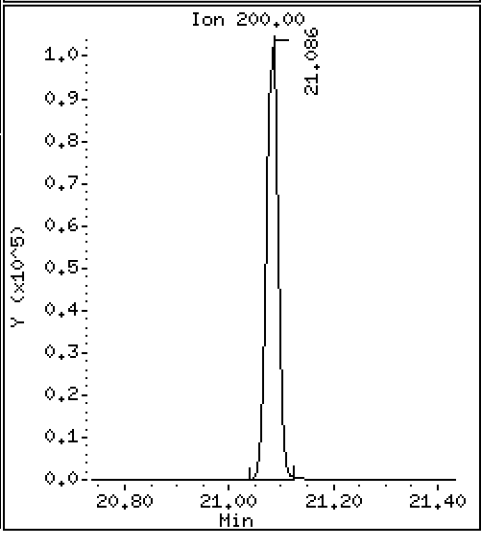


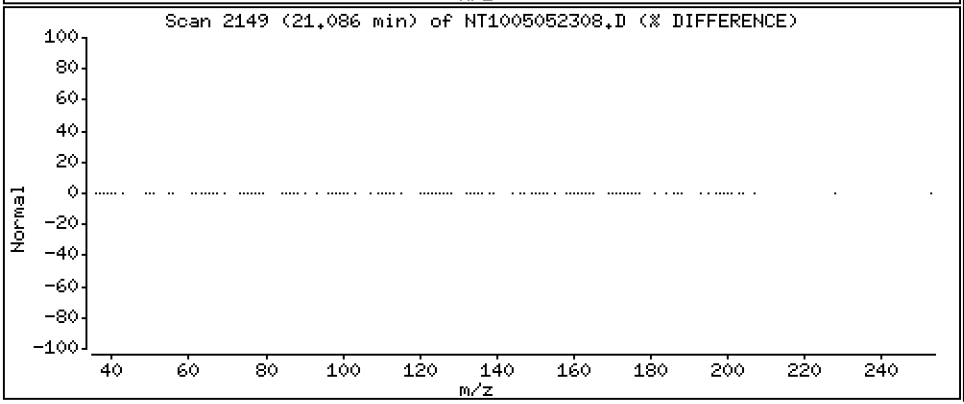












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

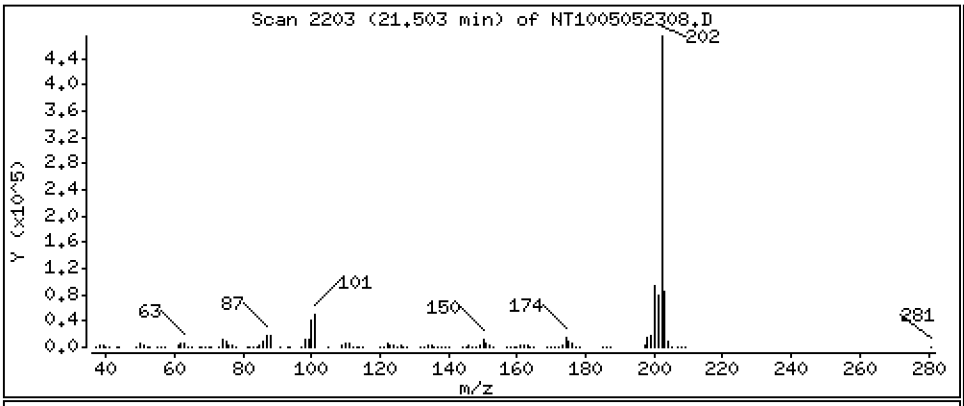
Operator: VTS

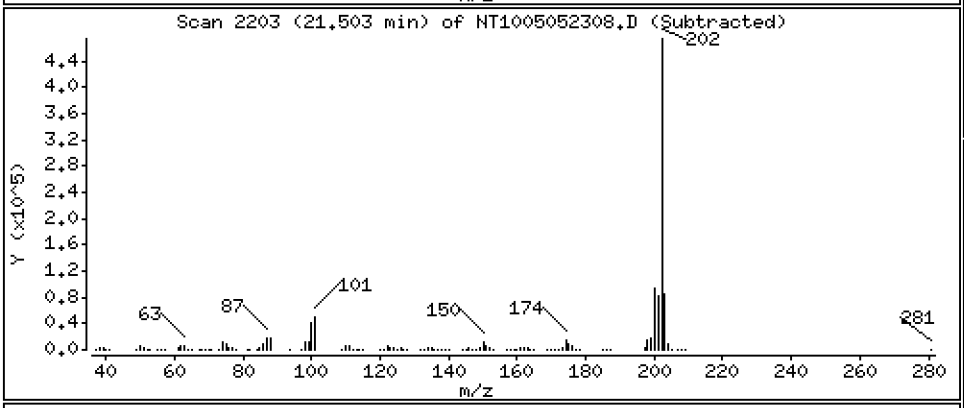
Column phase: ZB-5msi

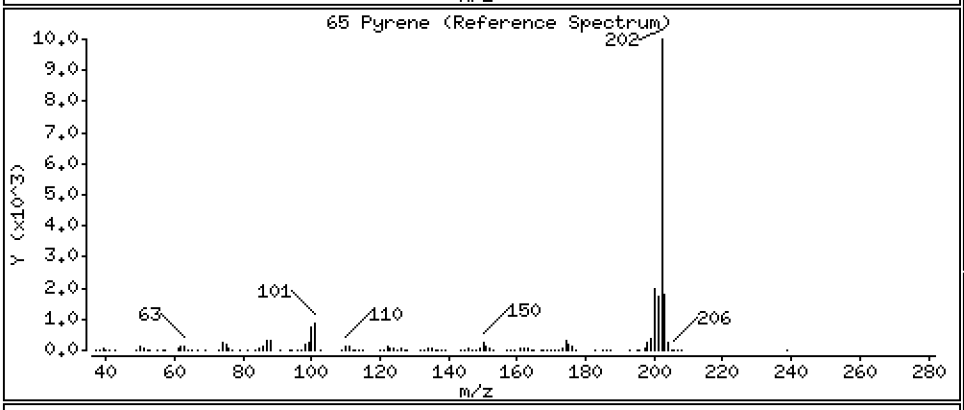
Column diameter: 0.25

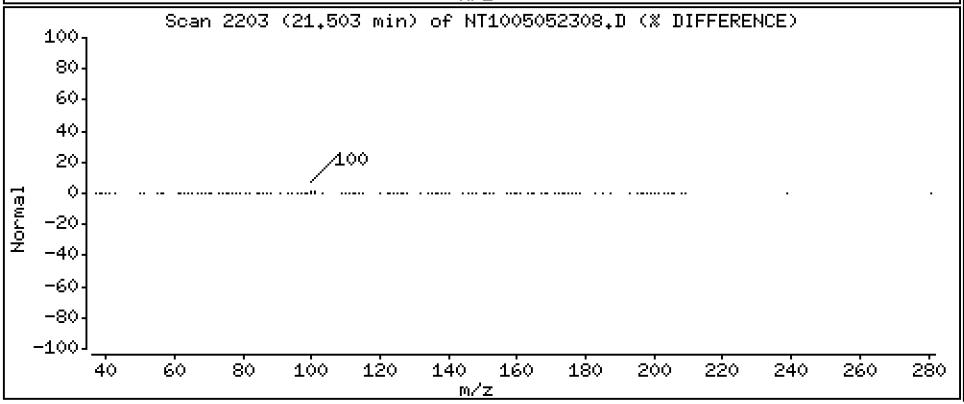
65 Pyrene

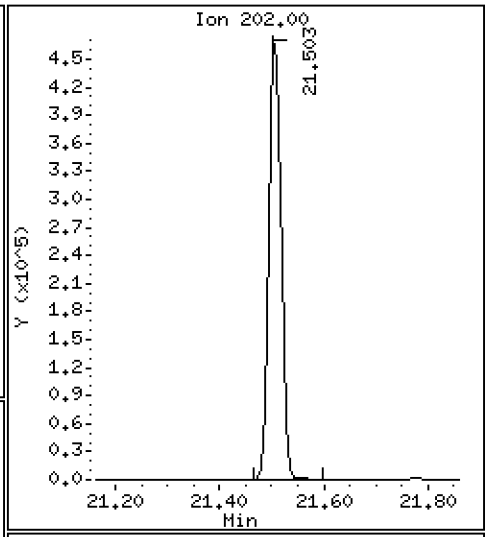
Concentration: 3.529 ug/mL

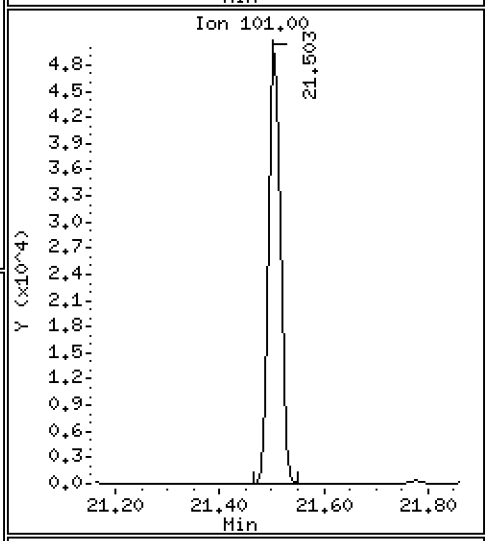


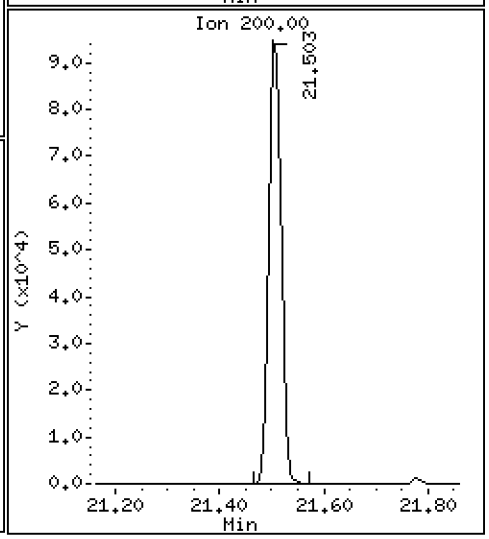












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

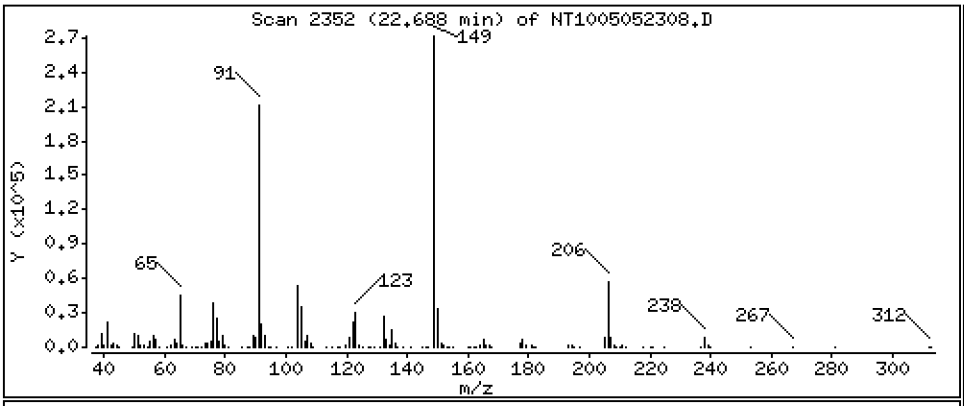
Operator: VTS

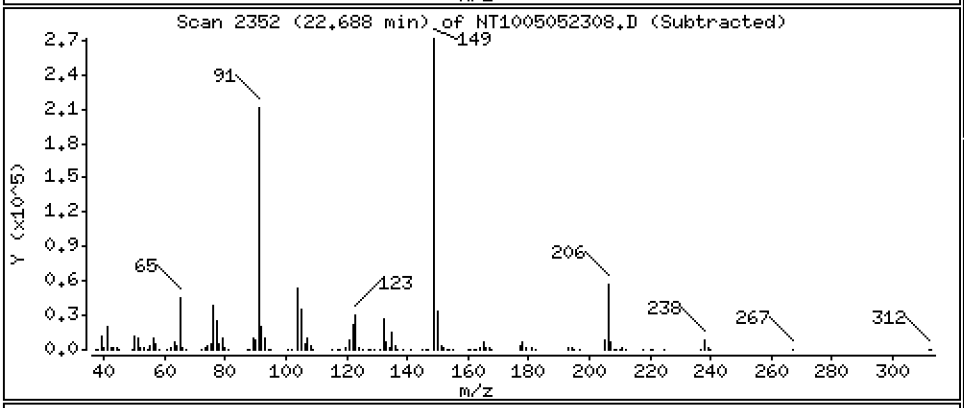
Column phase: ZB-5msi

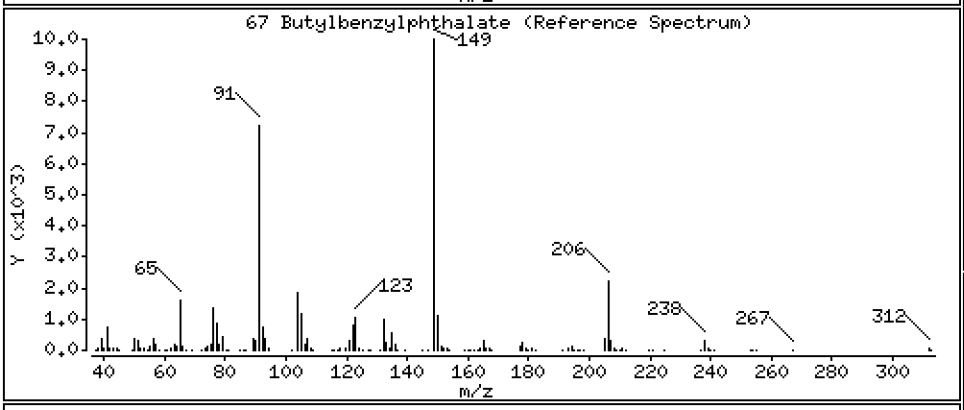
Column diameter: 0.25

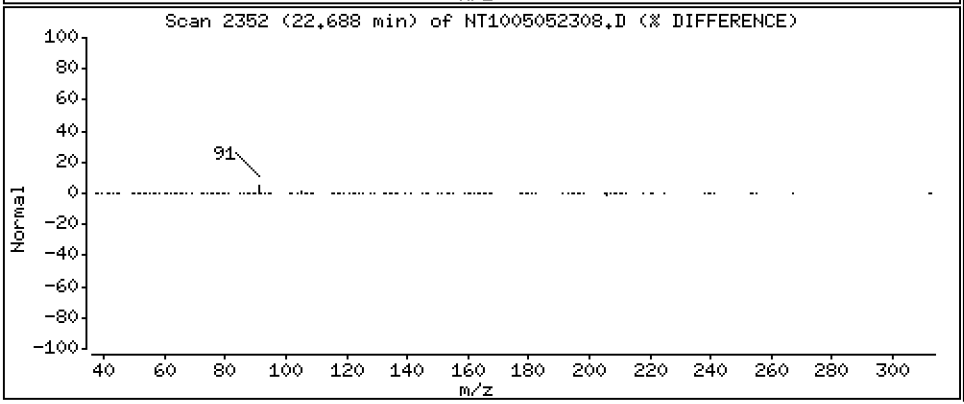
67 Butylbenzylphthalate

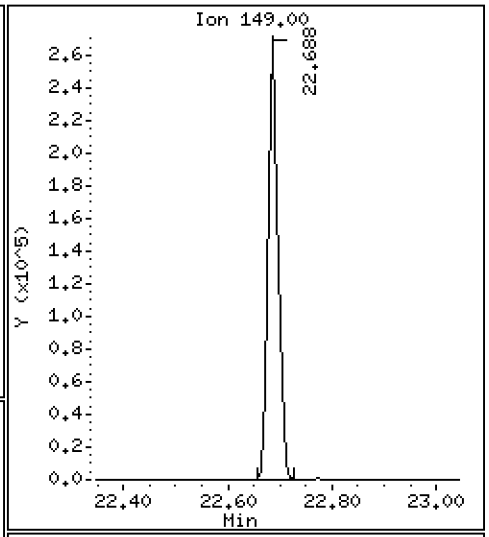
Concentration: 3.671 ug/mL

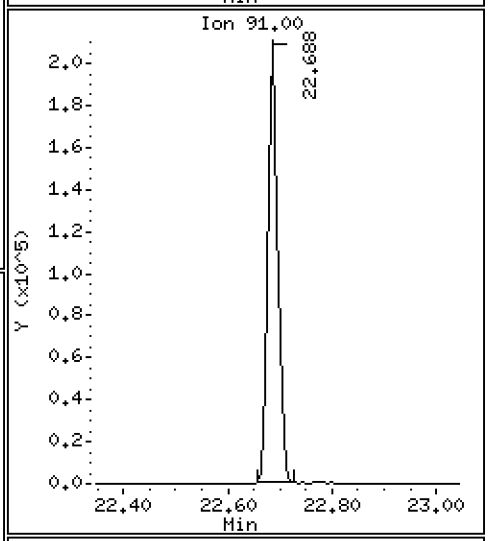


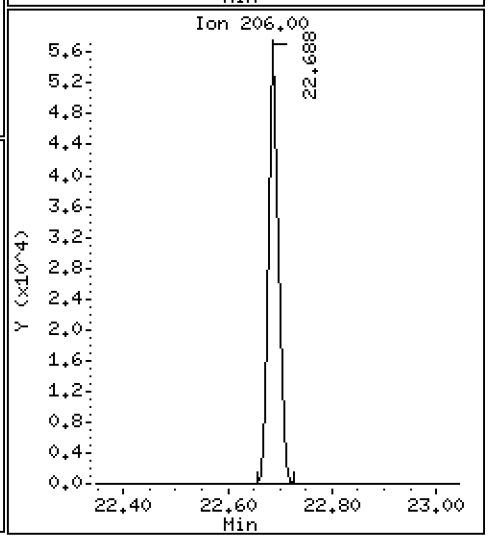












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

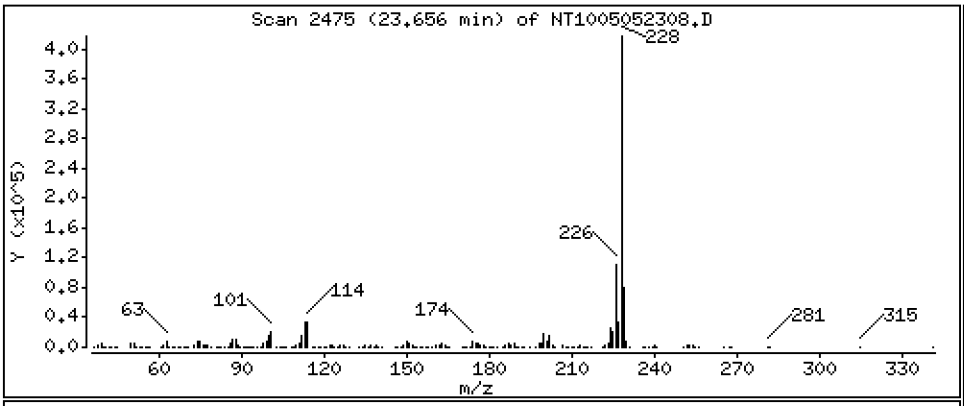
Operator: VTS

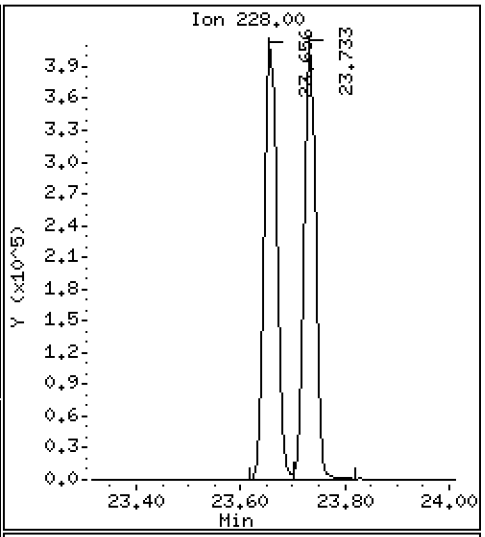
Column phase: ZB-5msi

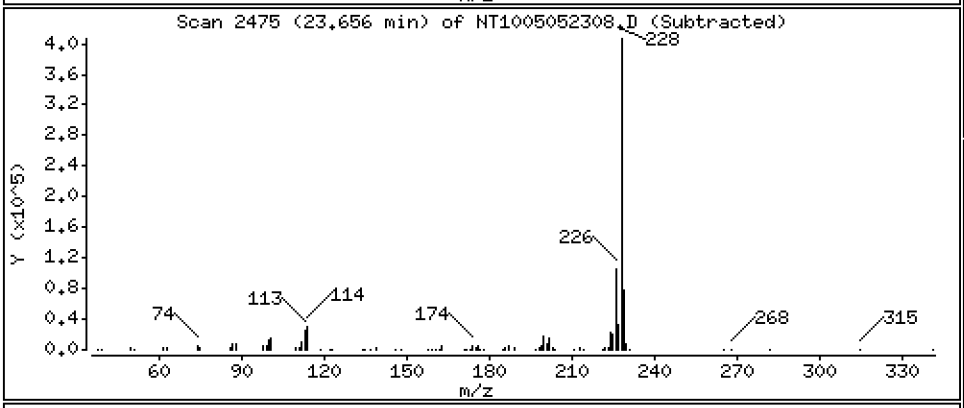
Column diameter: 0.25

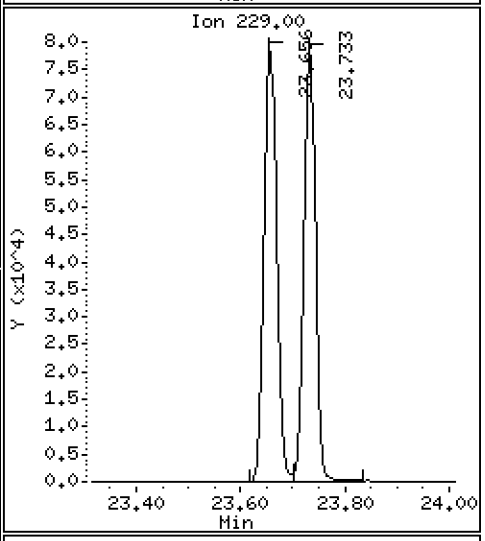
68 Benzo(a)anthracene

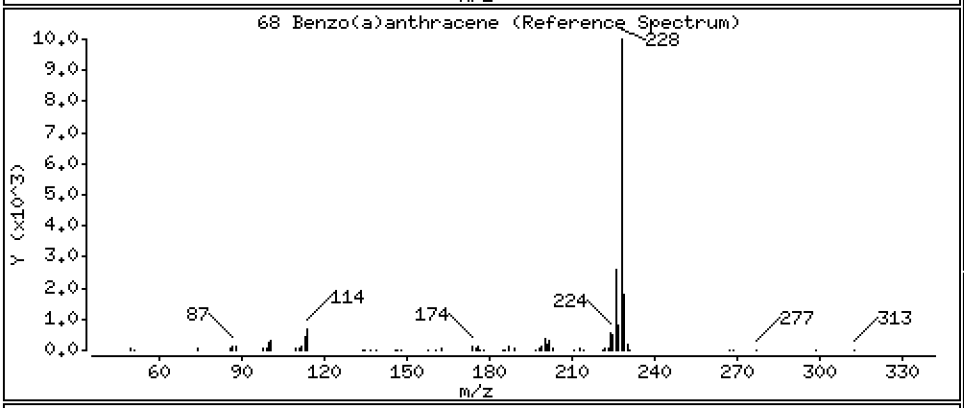
Concentration: 3.546 ug/mL

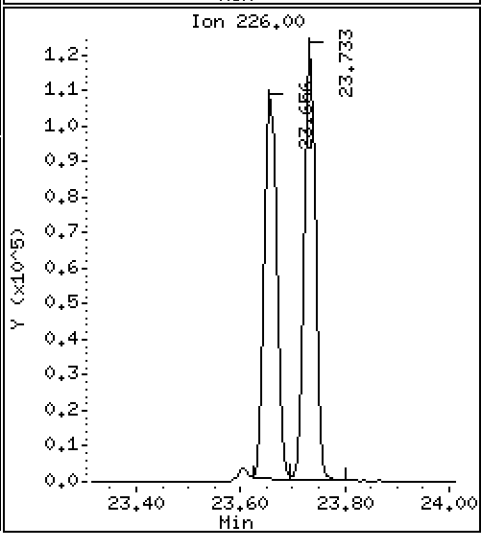


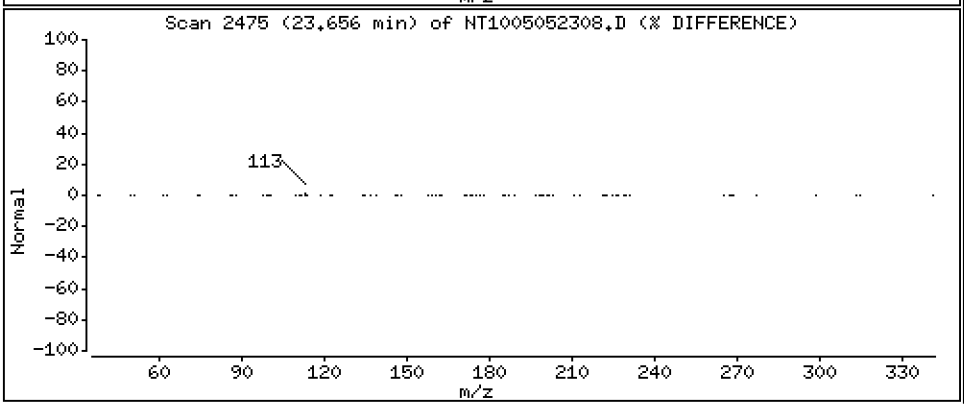












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

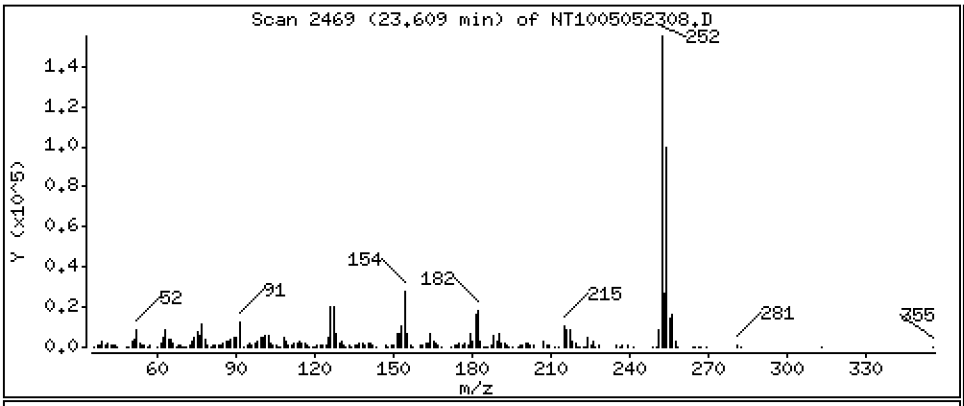
Operator: VTS

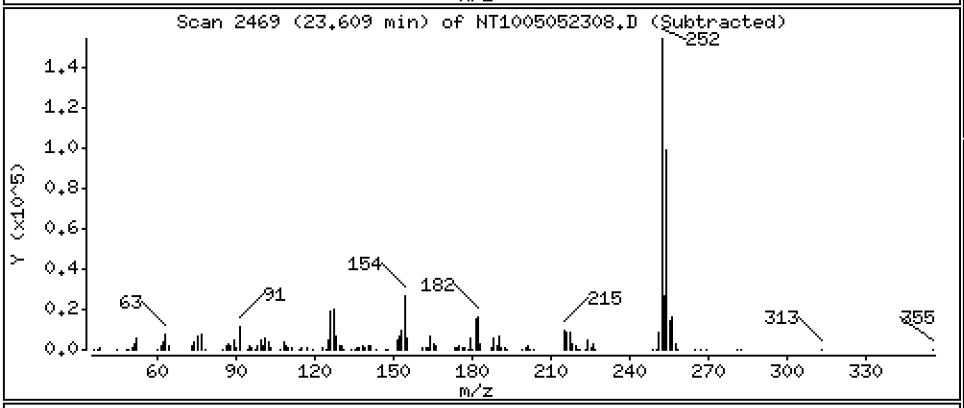
Column phase: ZB-5msi

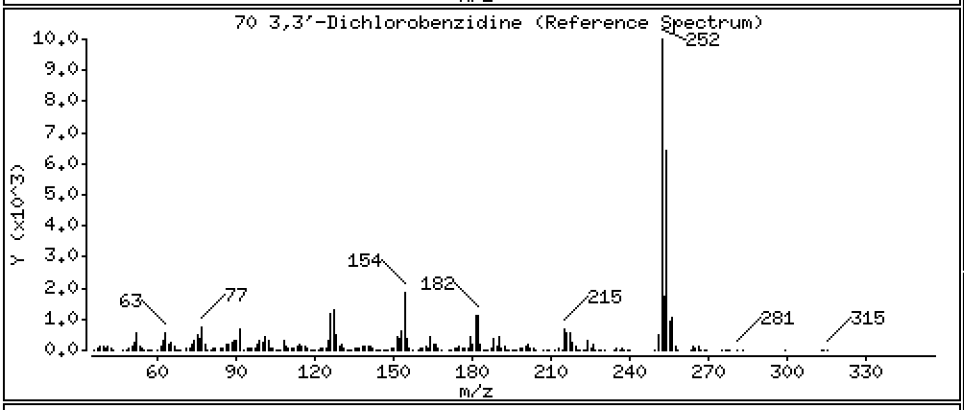
Column diameter: 0.25

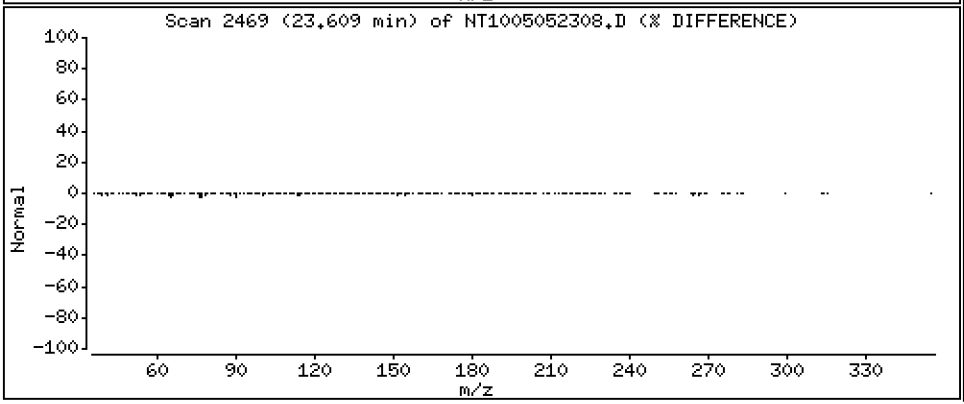
70 3,3'-Dichlorobenzidine

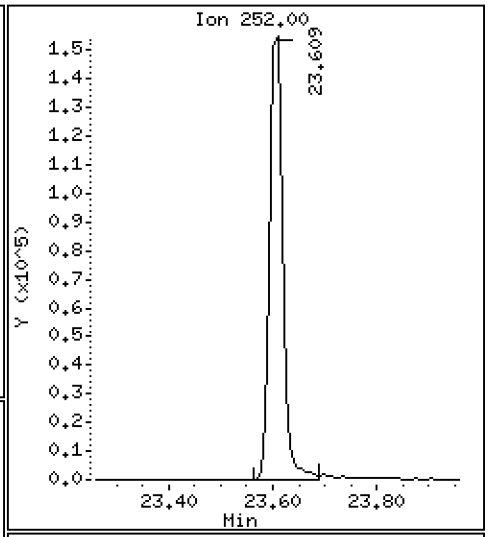
Concentration: 4.516 ug/mL

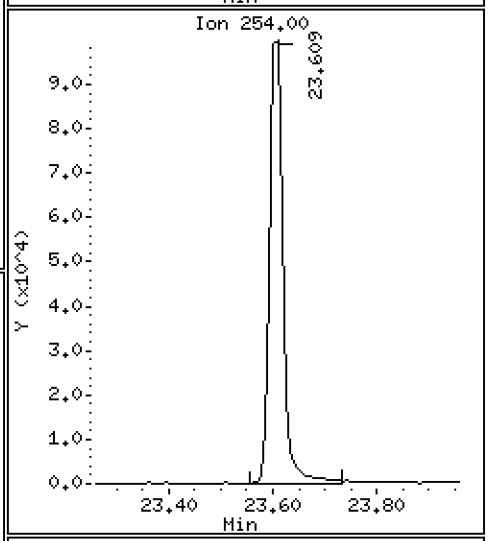


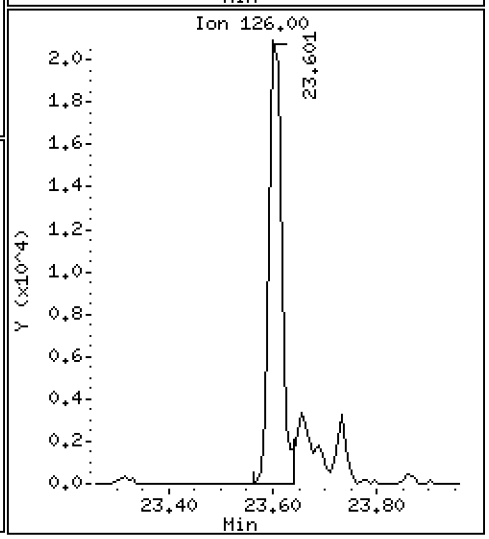












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

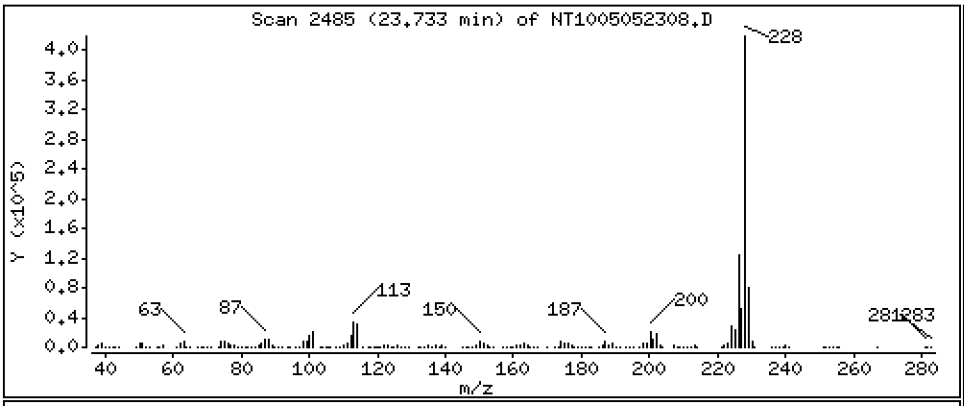
Operator: VTS

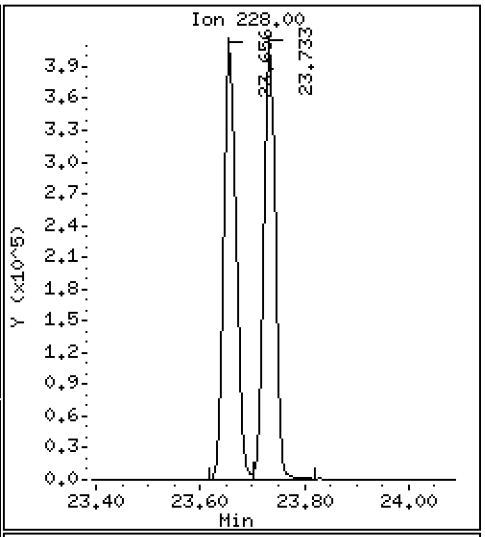
Column phase: ZB-5msi

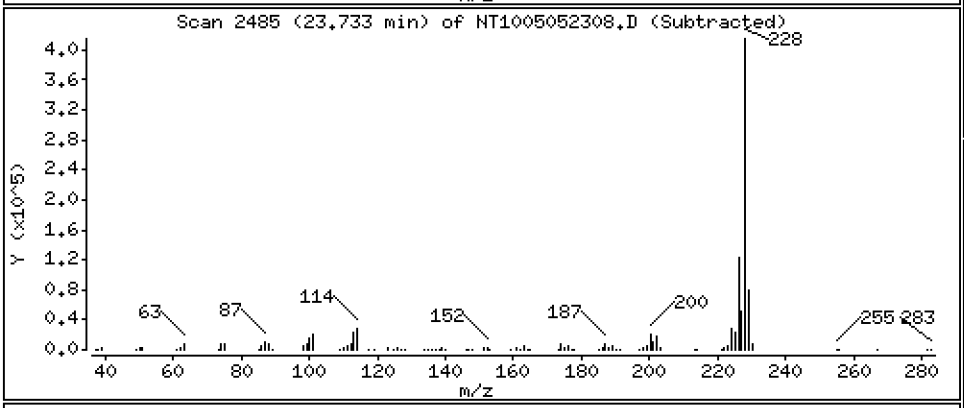
Column diameter: 0.25

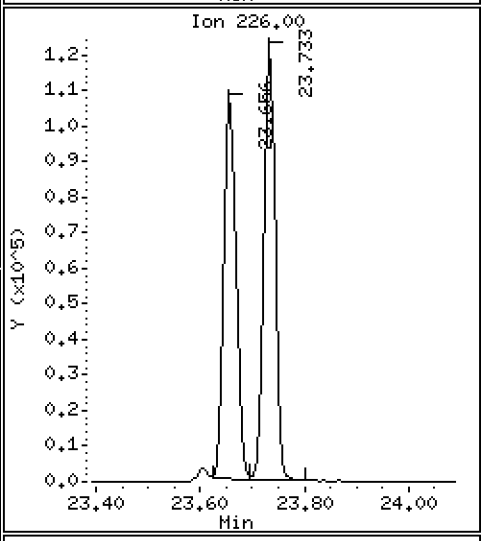
71 Chrysene

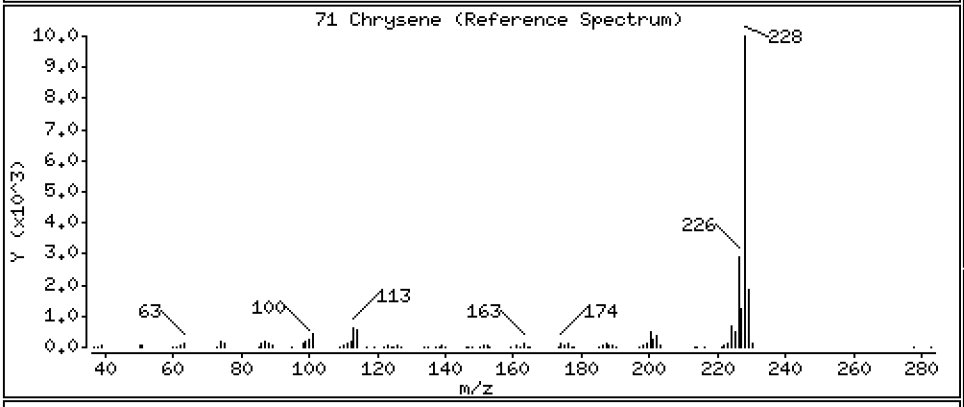
Concentration: 3.548 ug/mL

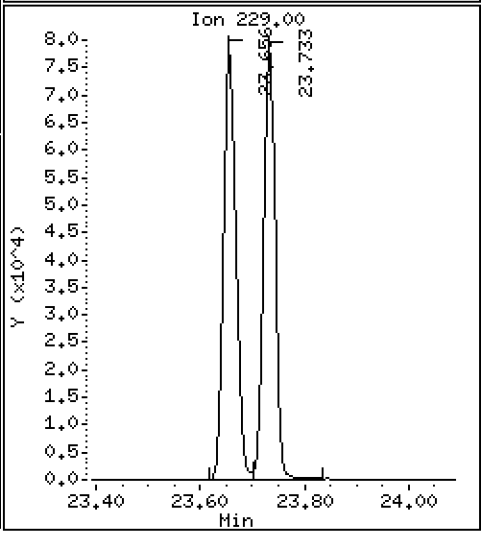


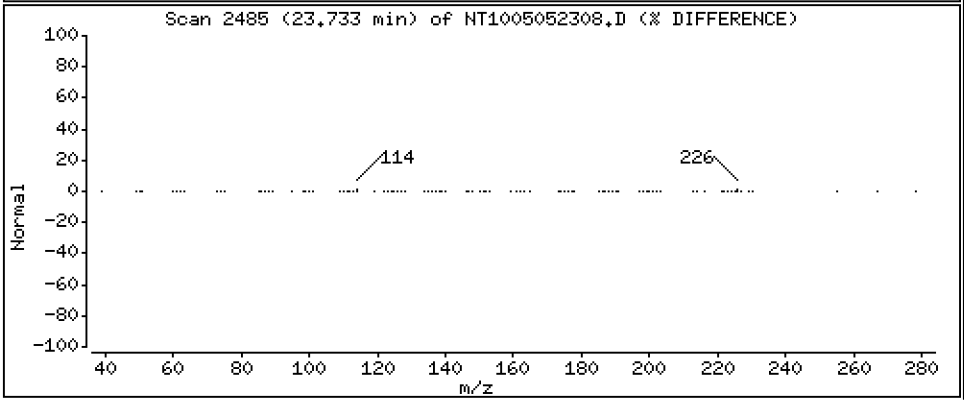












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

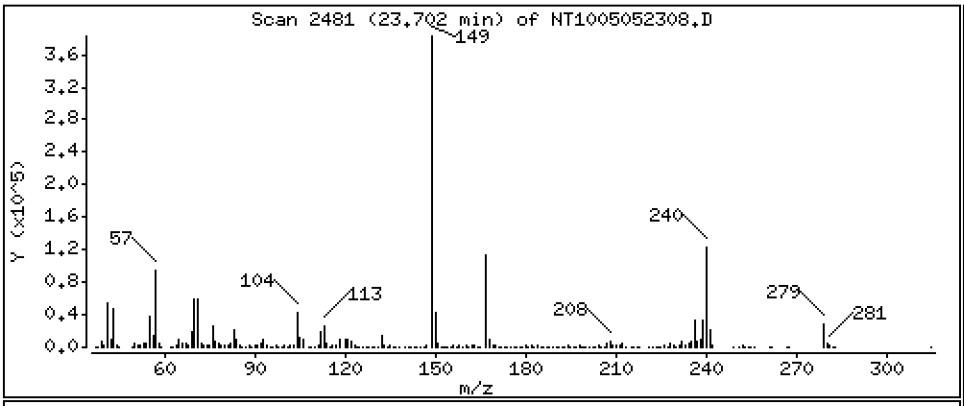
Operator: VTS

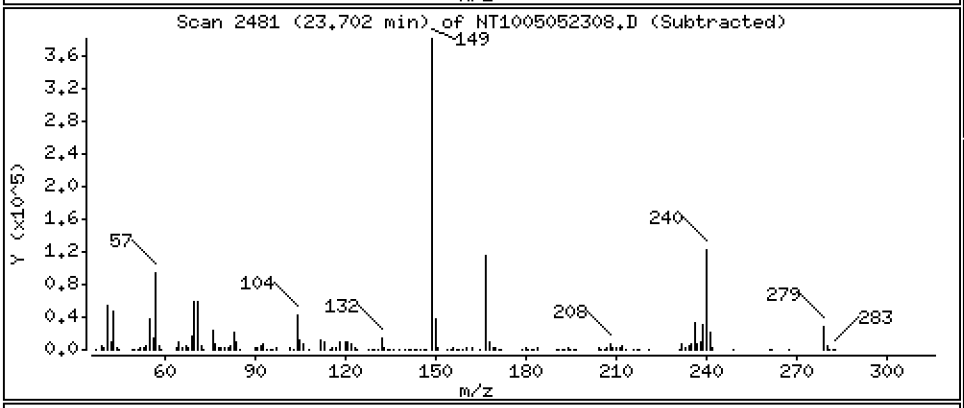
Column phase: ZB-5msi

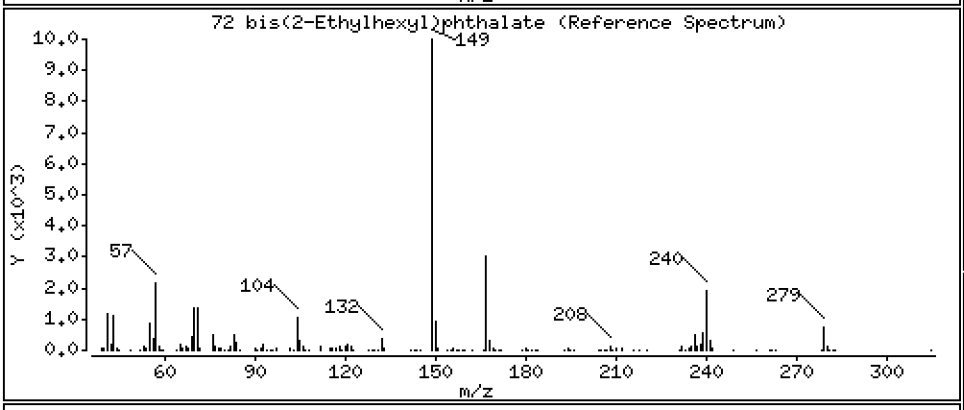
Column diameter: 0.25

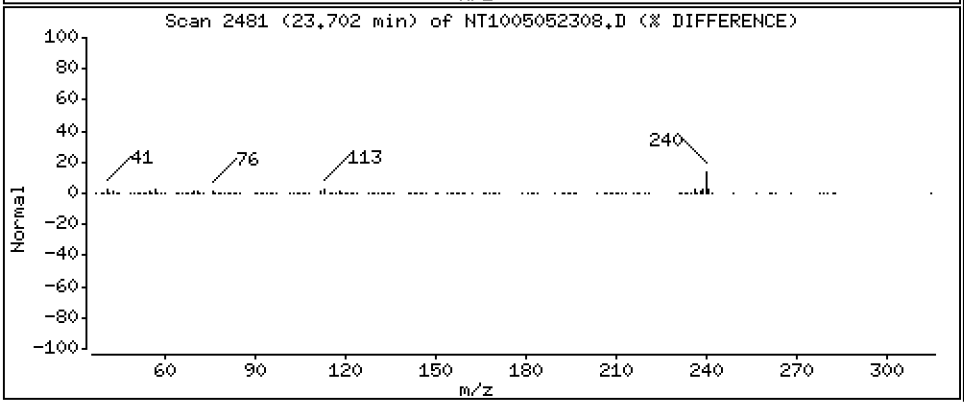
72 bis(2-Ethylhexyl)phthalate

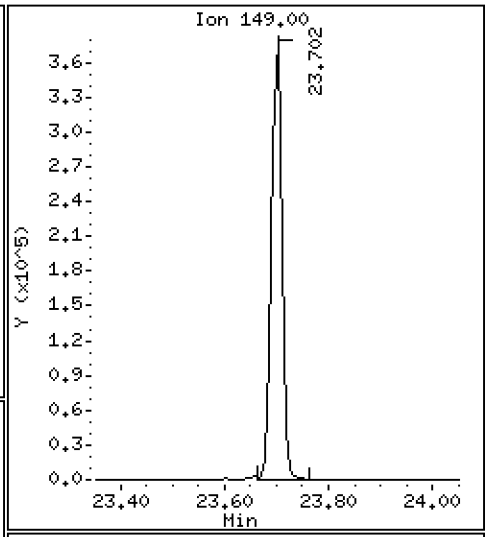
Concentration: 4.082 ug/mL

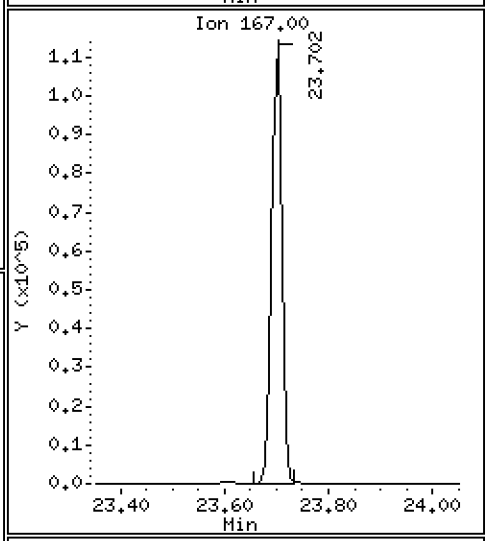


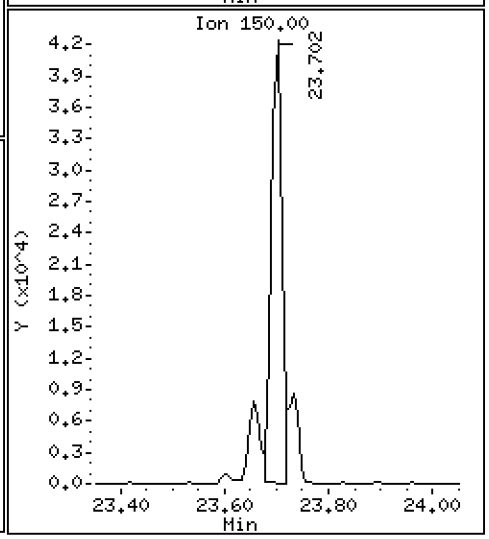












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

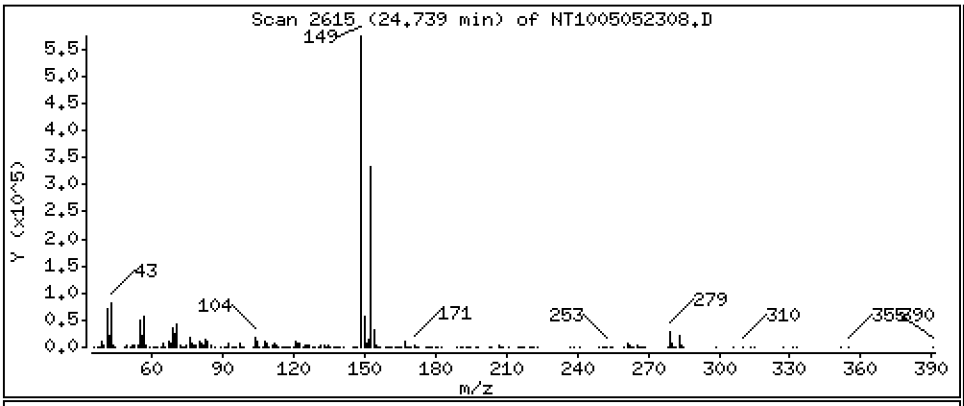
Operator: VTS

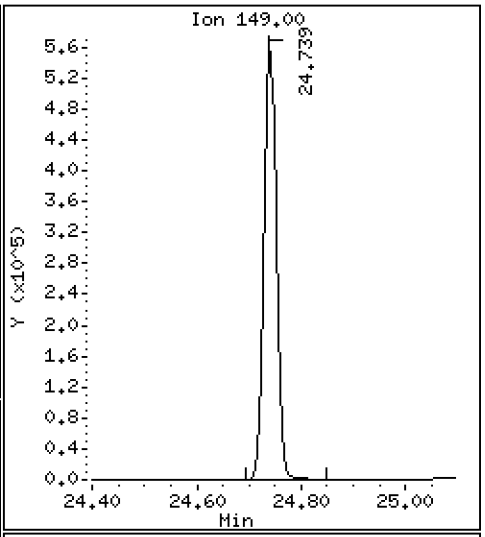
Column phase: ZB-5msi

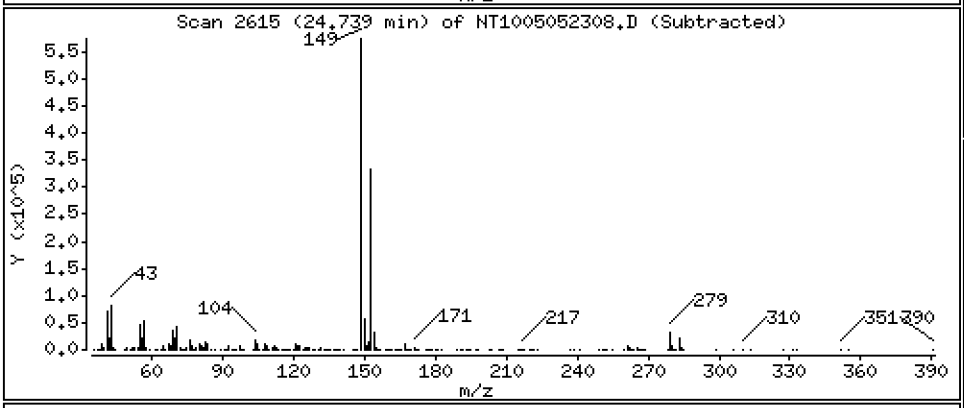
Column diameter: 0.25

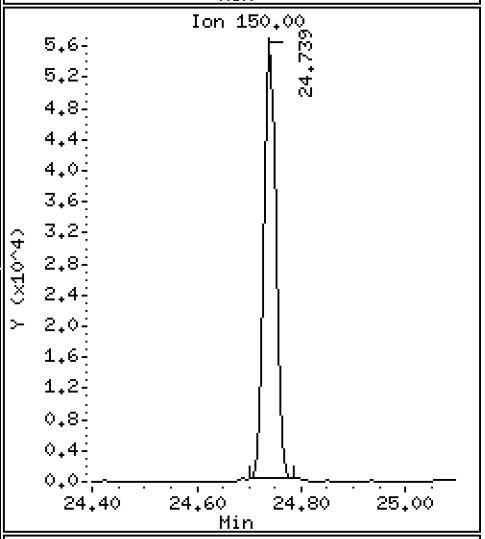
73 Di-n-octylphthalate

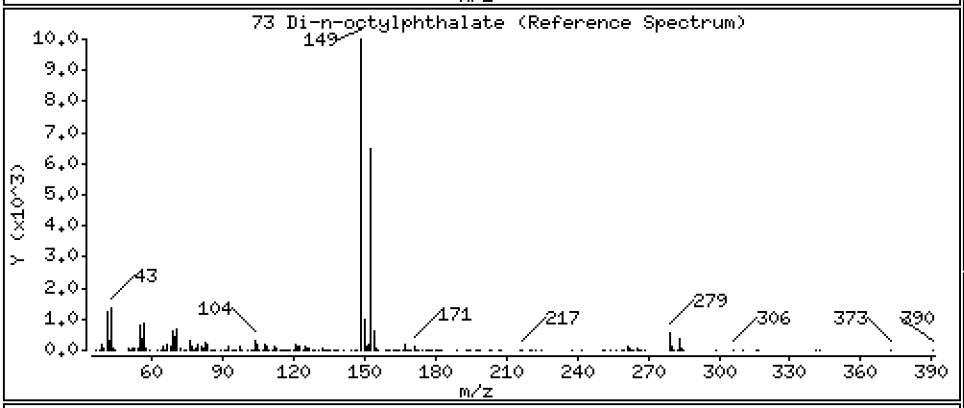
Concentration: 3.981 ug/mL

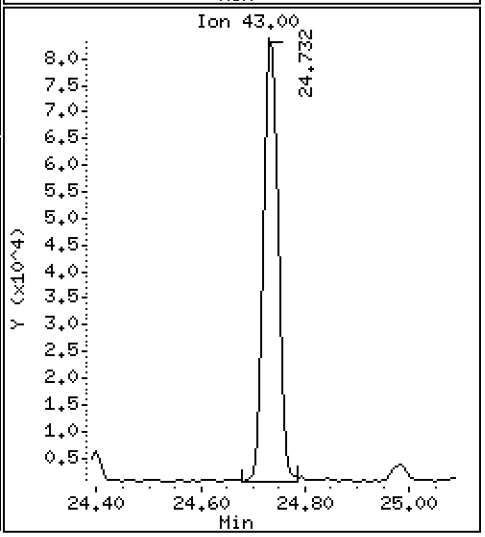


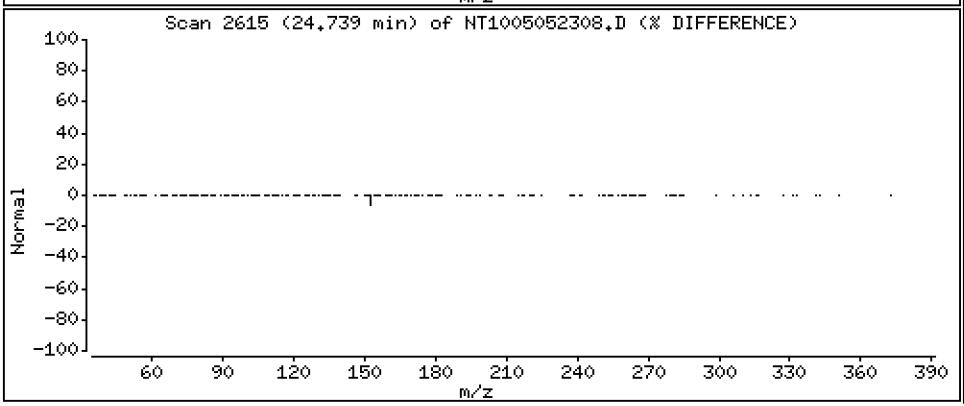












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

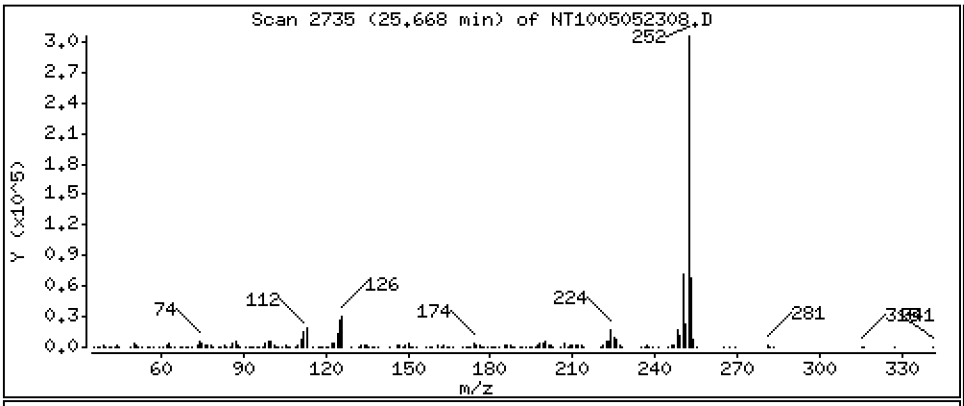
Operator: VTS

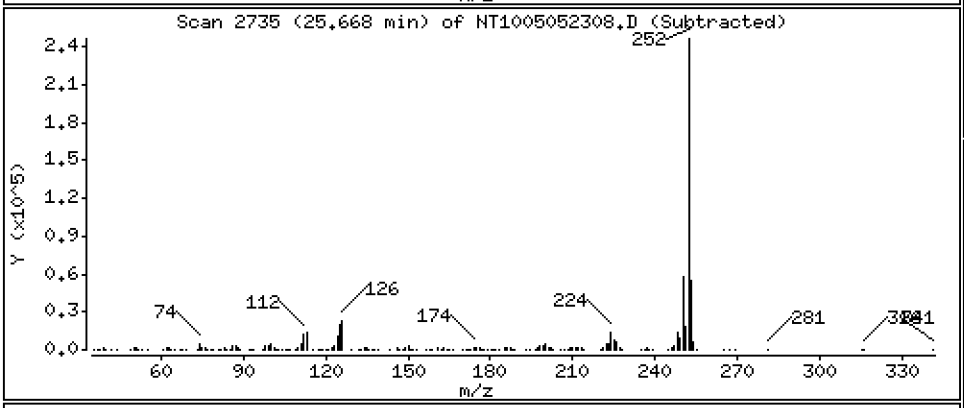
Column phase: ZB-5msi

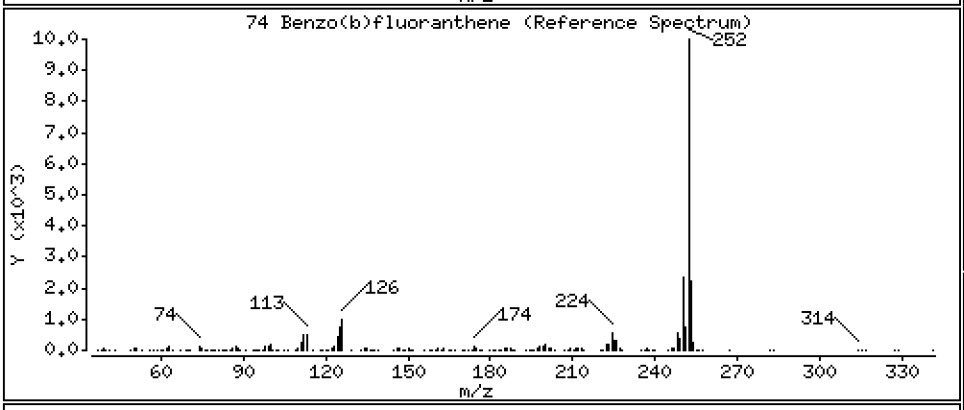
Column diameter: 0.25

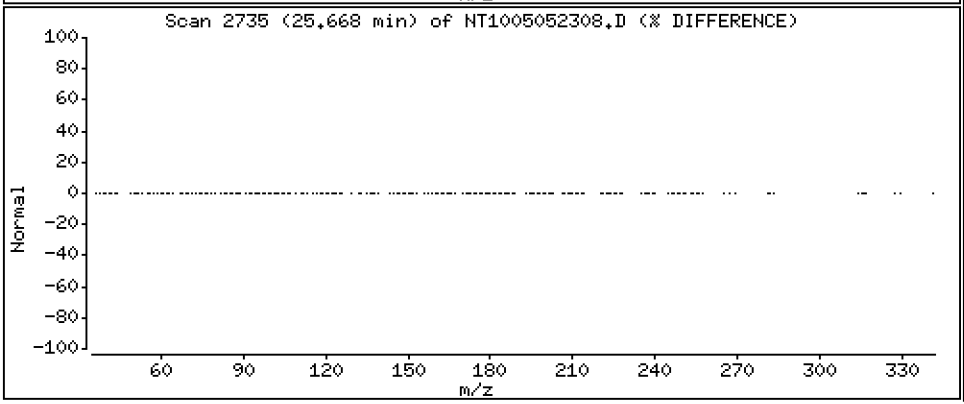
74 Benzo(b)fluoranthene

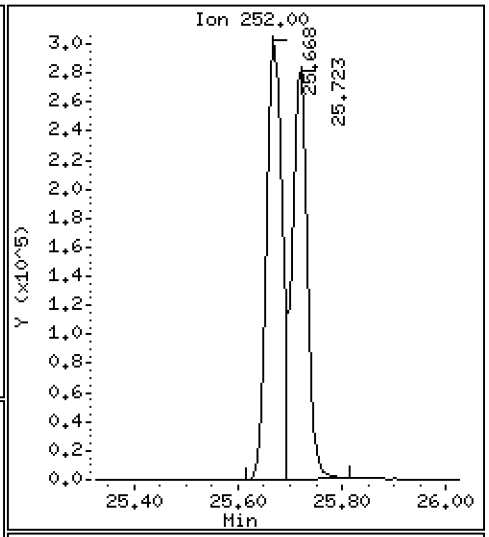
Concentration: 3.613 ug/mL

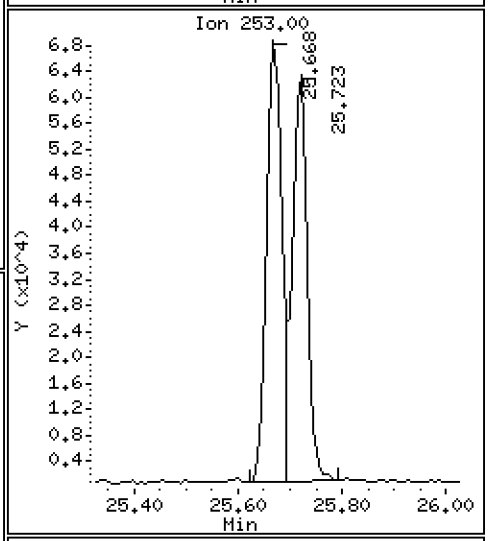


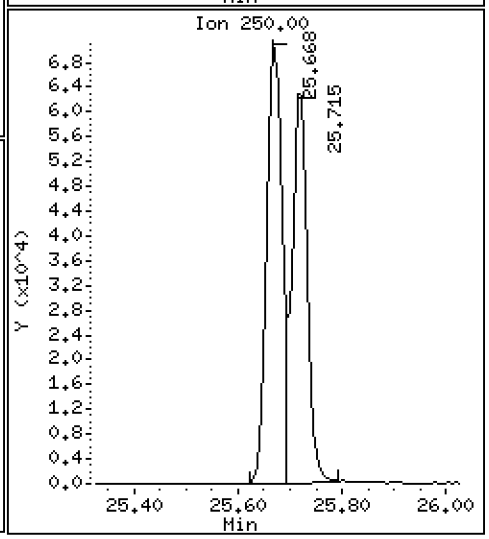












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

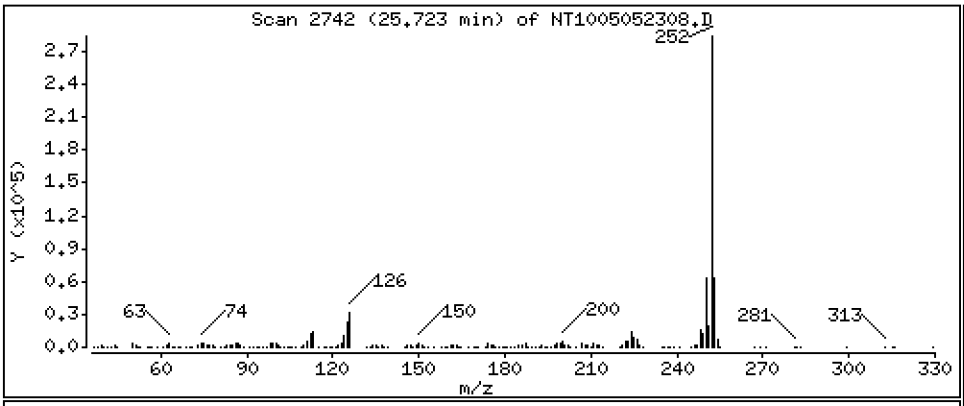
Operator: VTS

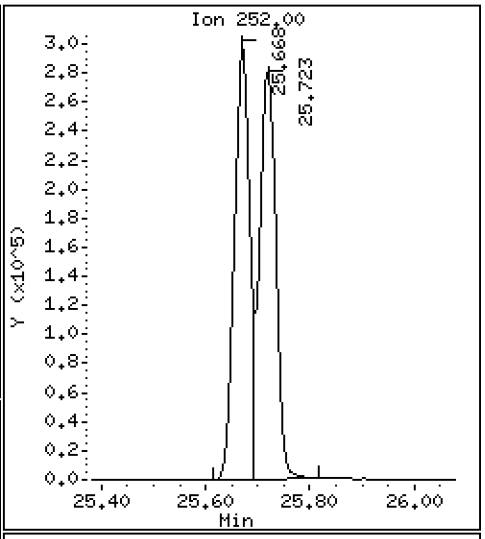
Column phase: ZB-5msi

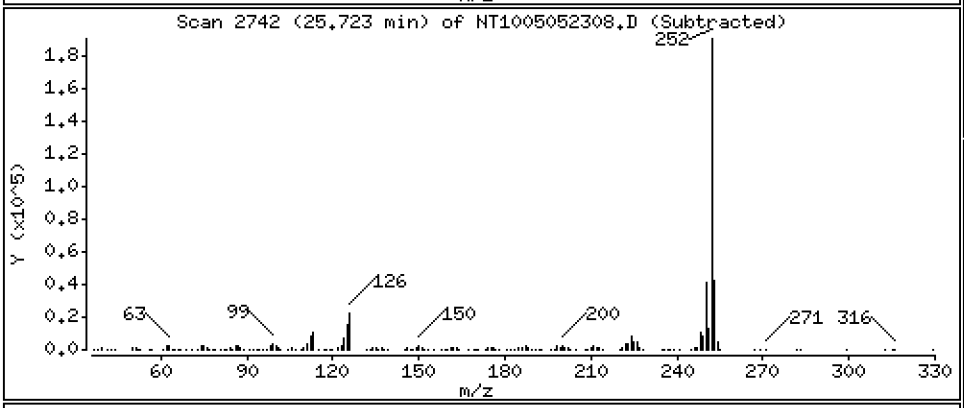
Column diameter: 0.25

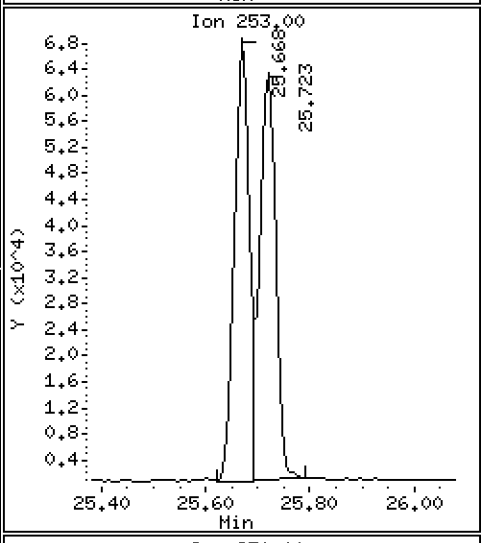
75 Benzo(k)fluoranthene

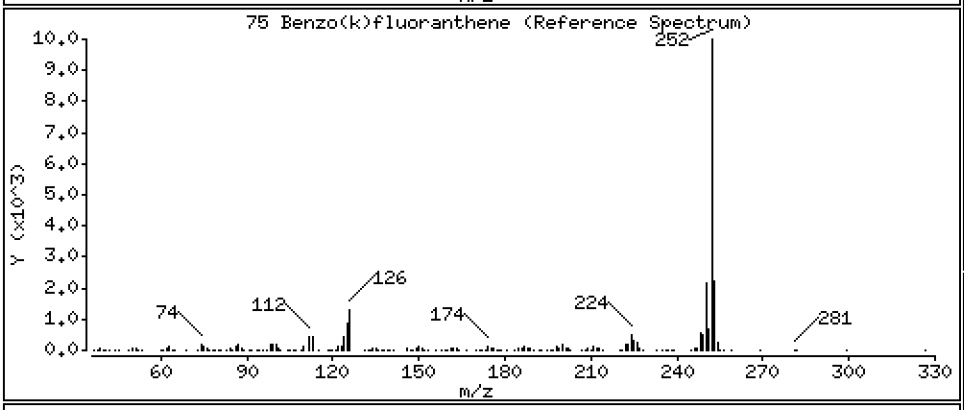
Concentration: 3.769 ug/mL

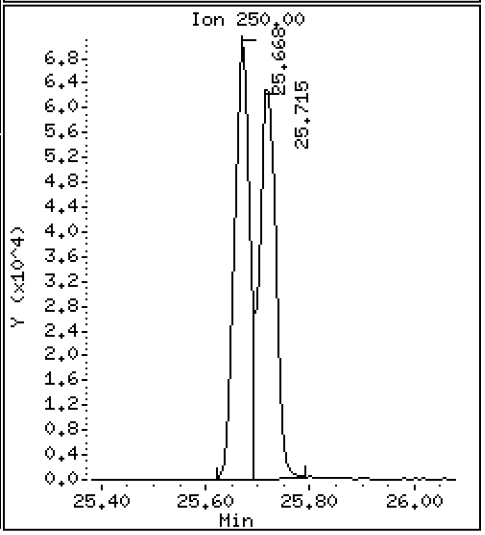


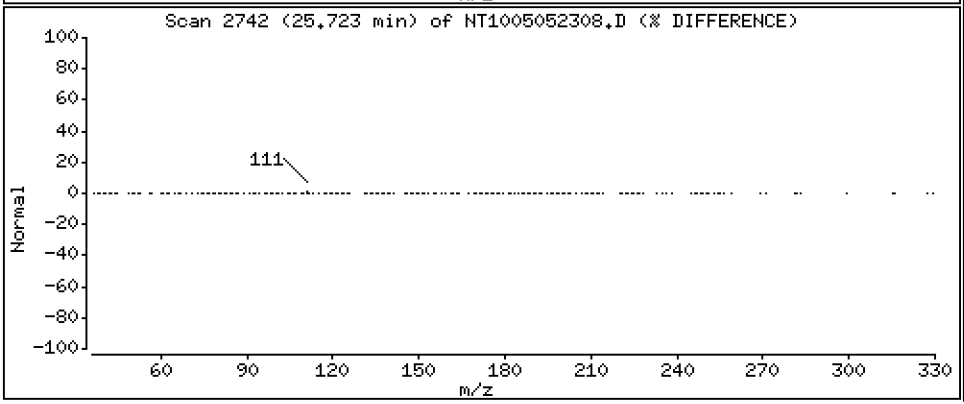












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

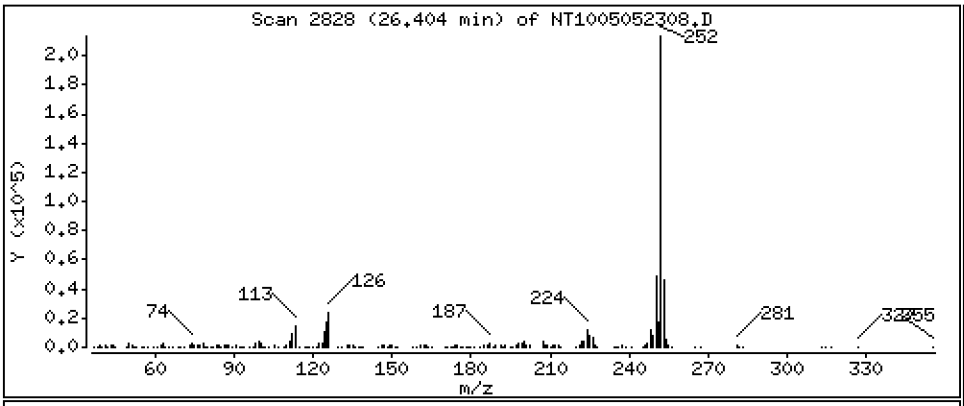
Operator: VTS

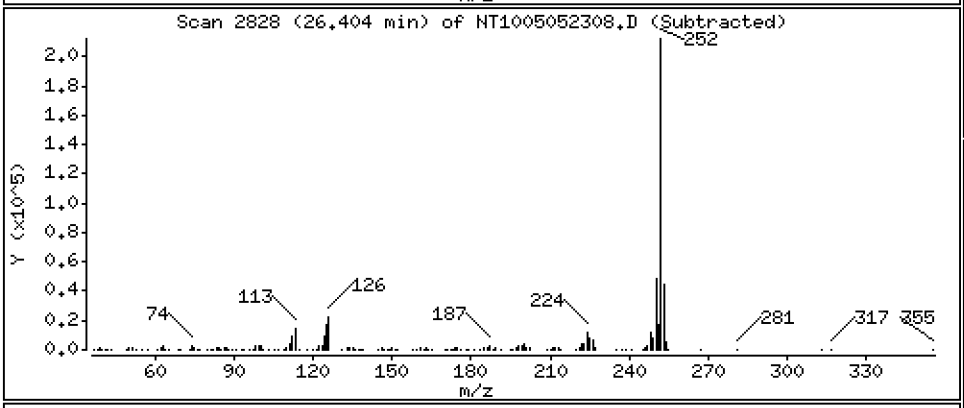
Column phase: ZB-5msi

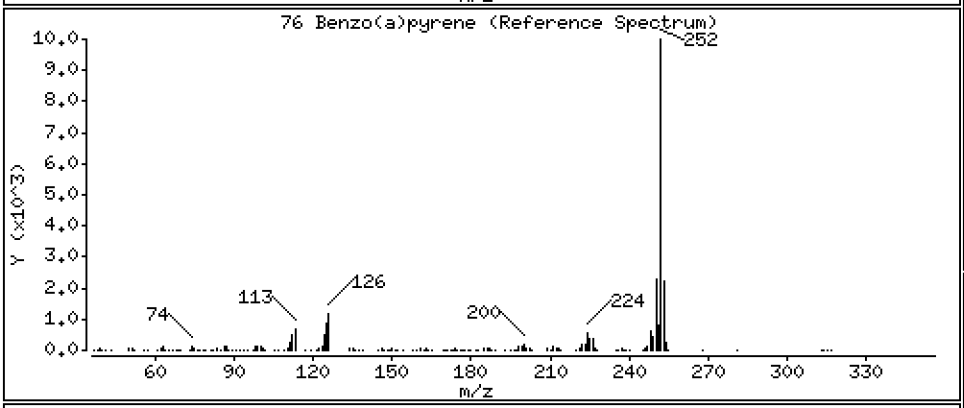
Column diameter: 0.25

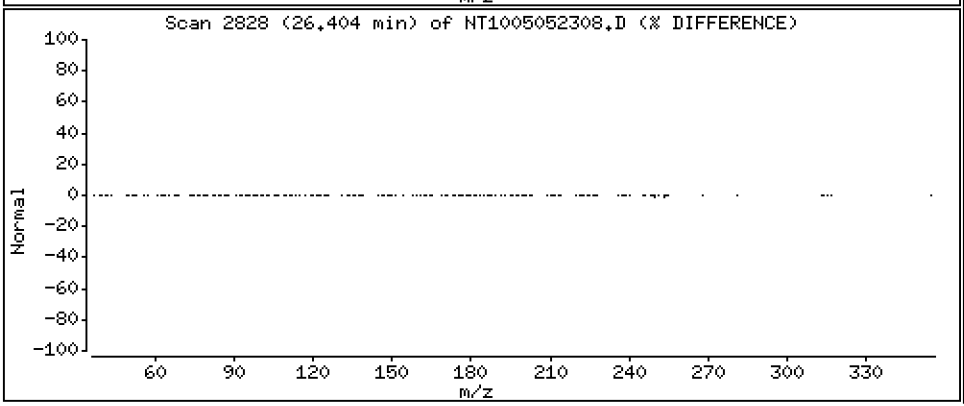
76 Benzo(a)pyrene

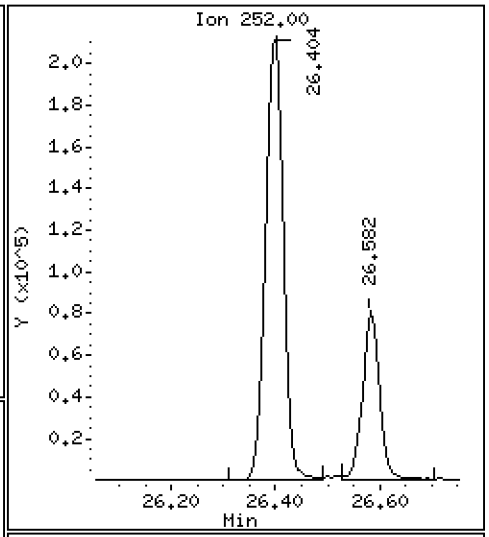
Concentration: 3.494 ug/mL

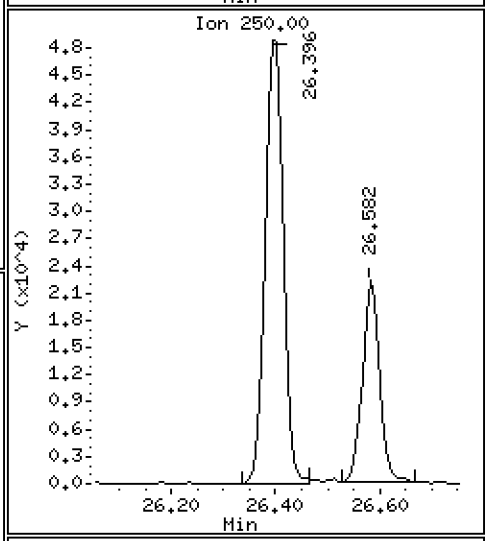


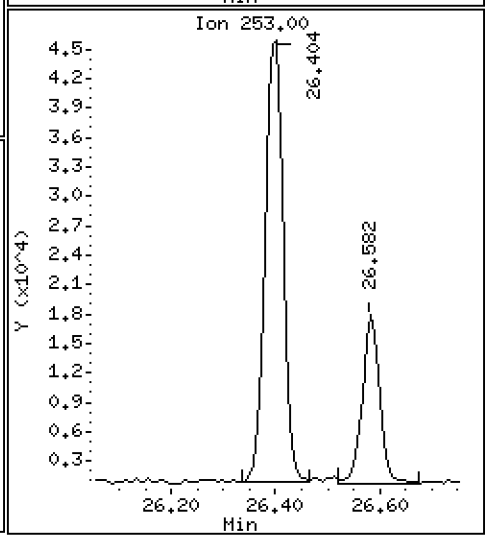












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

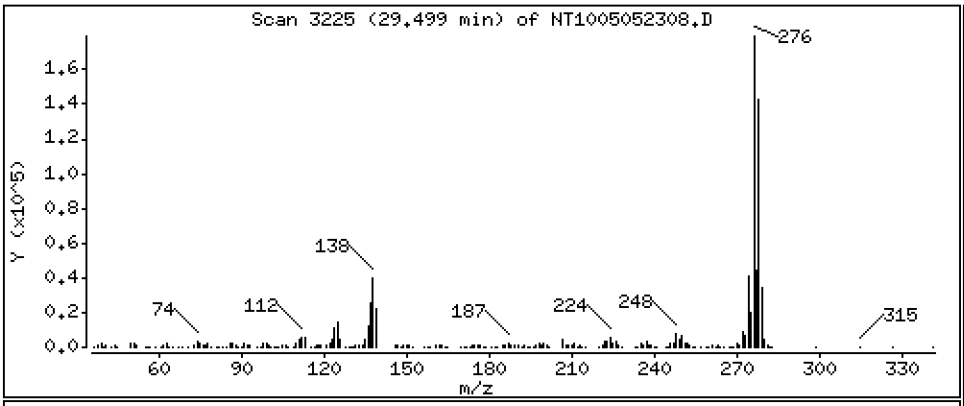
Operator: VTS

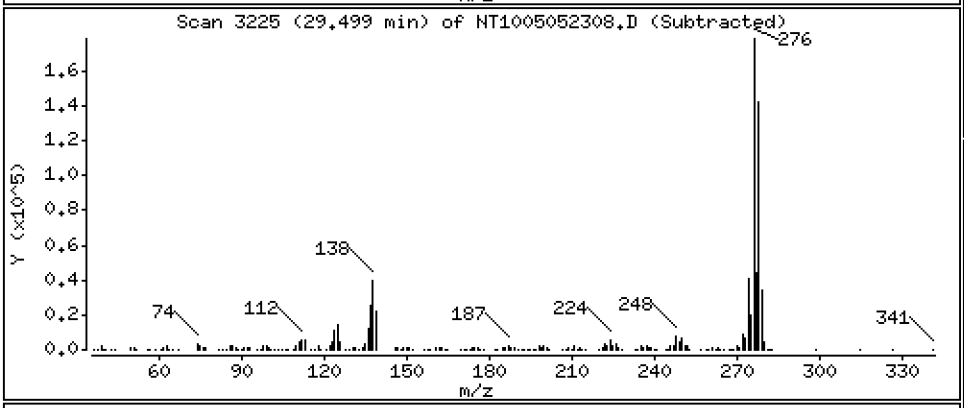
Column phase: ZB-5msi

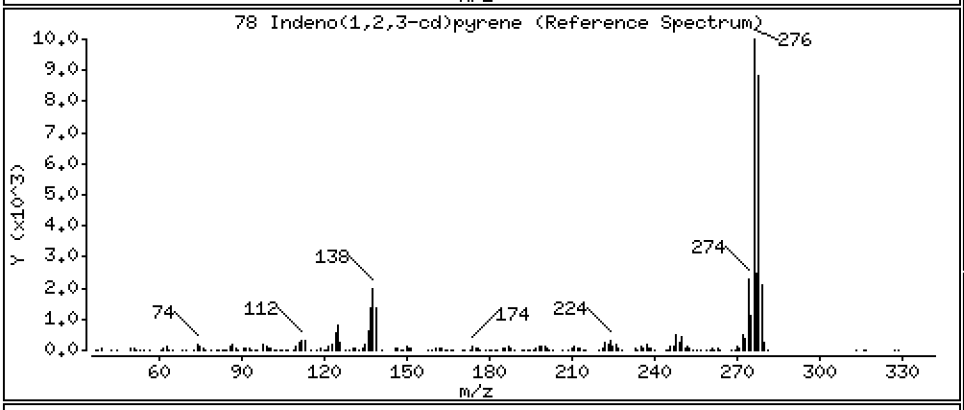
Column diameter: 0.25

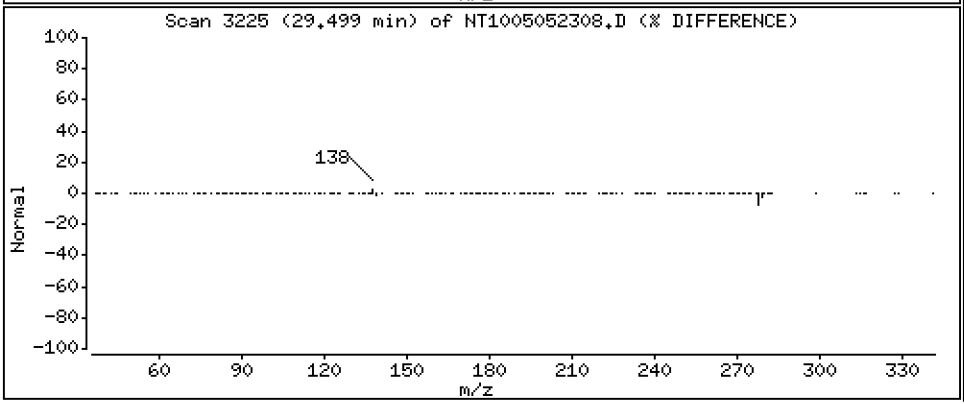
78 Indeno(1,2,3-cd)pyrene

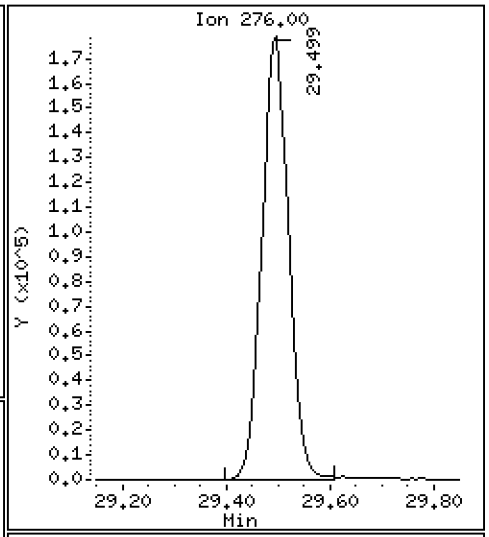
Concentration: 3.760 ug/mL

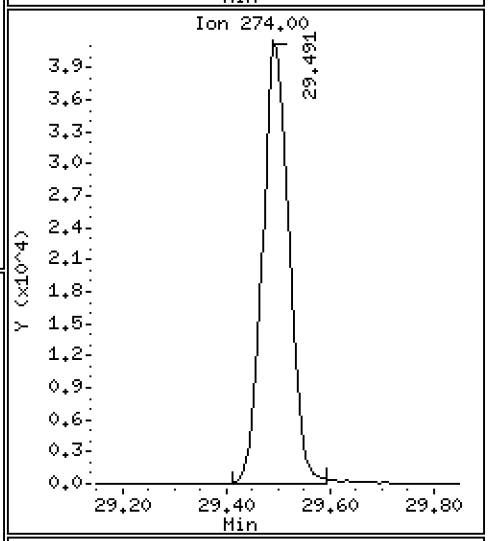


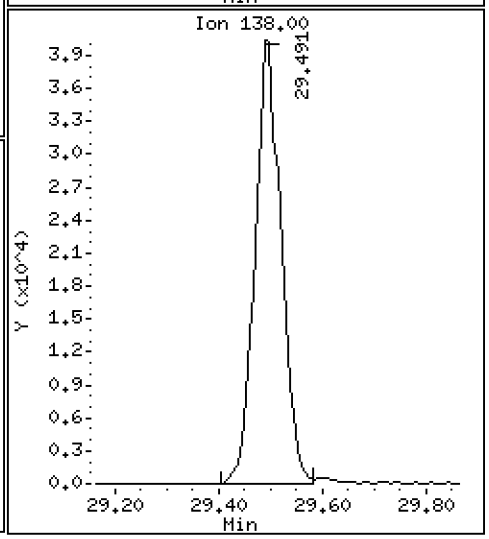












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

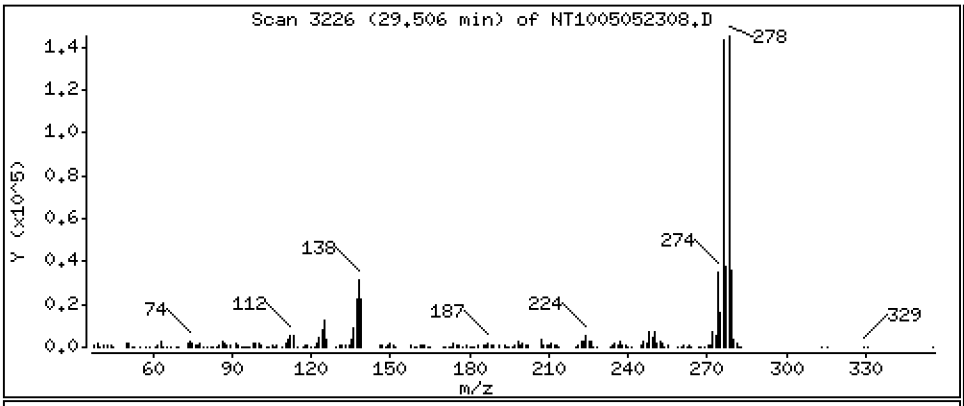
Operator: VTS

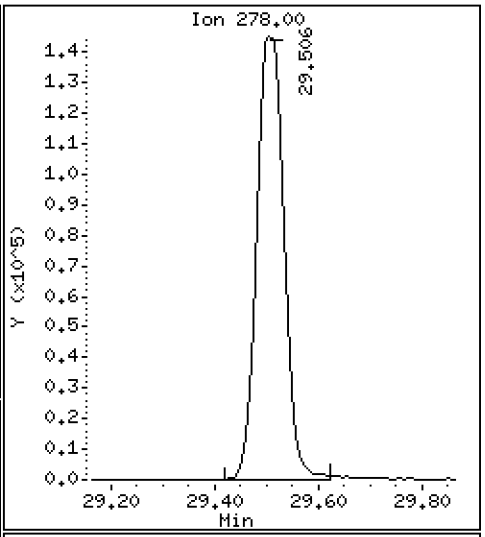
Column phase: ZB-5msi

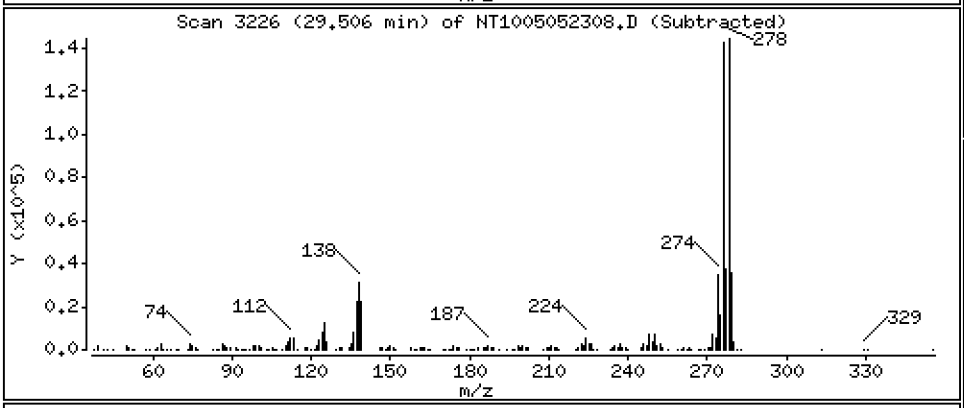
Column diameter: 0.25

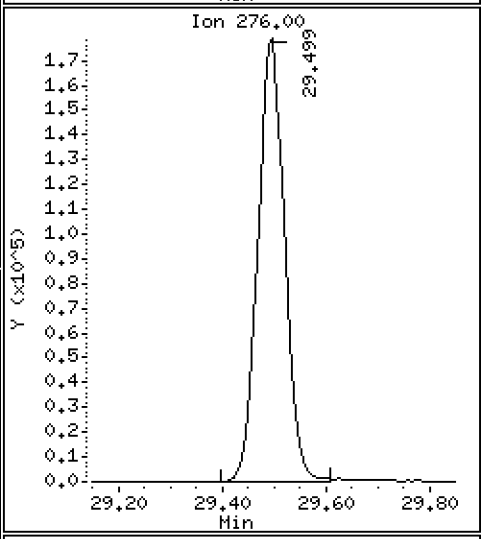
79 Dibenzo(a,h)anthracene

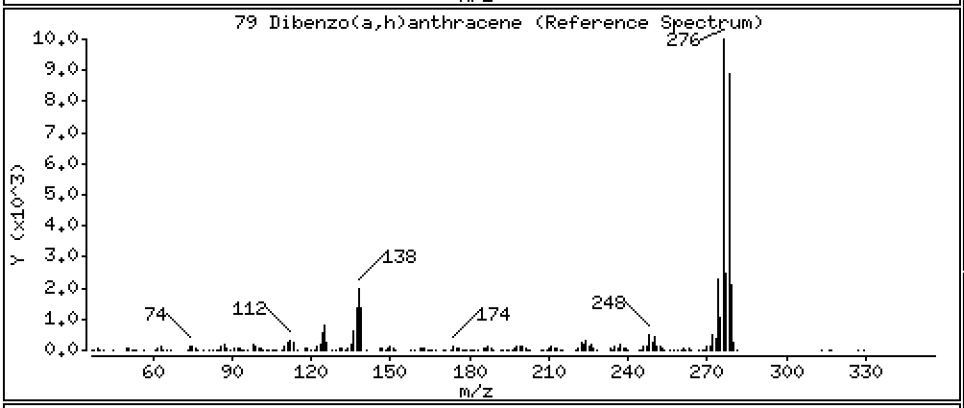
Concentration: 3.710 ug/mL

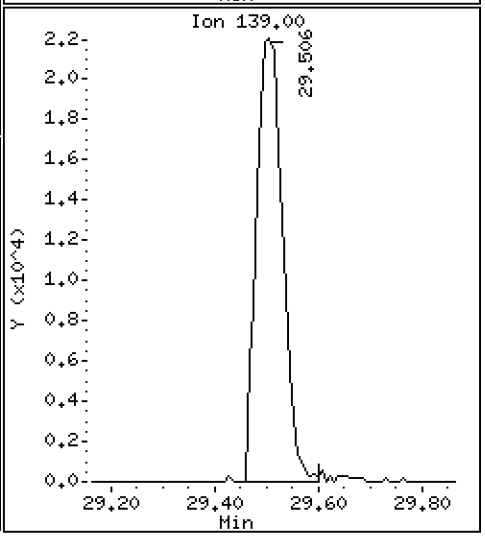


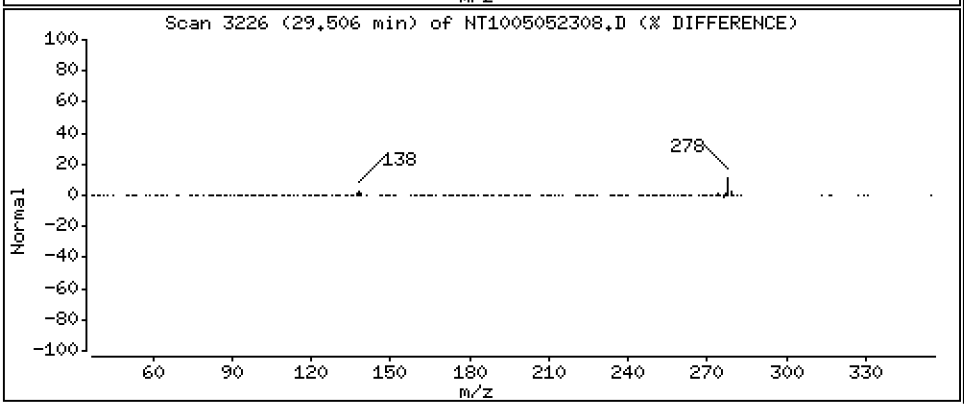












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

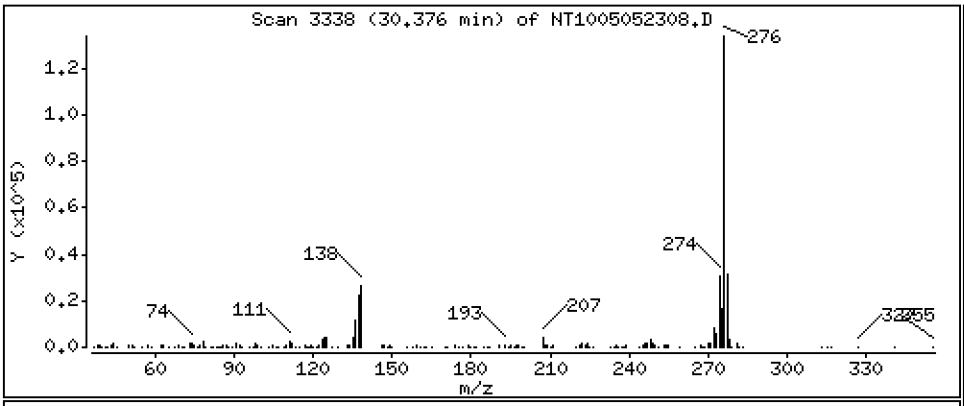
Operator: VTS

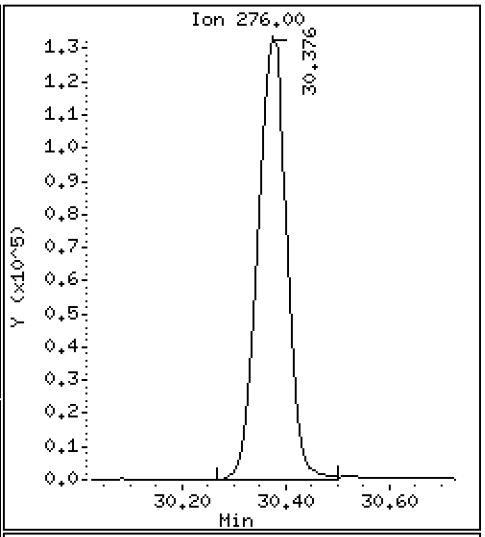
Column phase: ZB-5msi

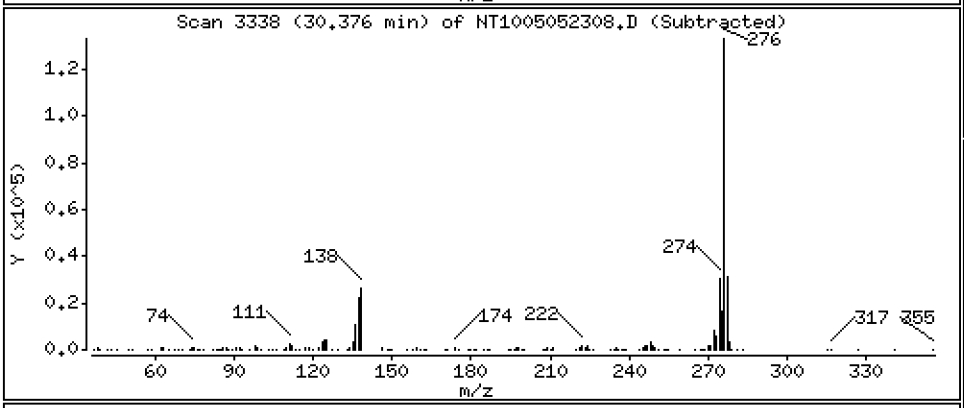
Column diameter: 0.25

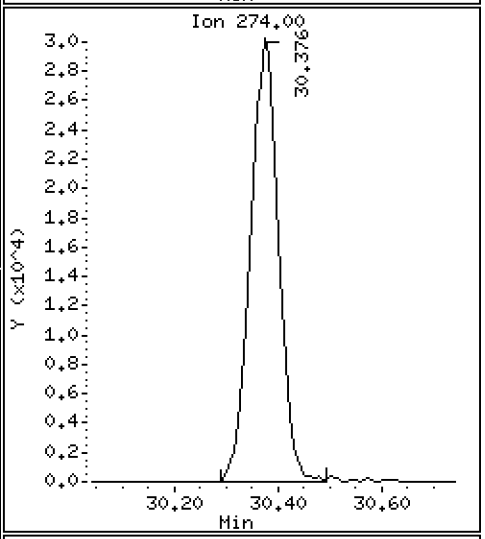
80 Benzo(g,h,i)perylene

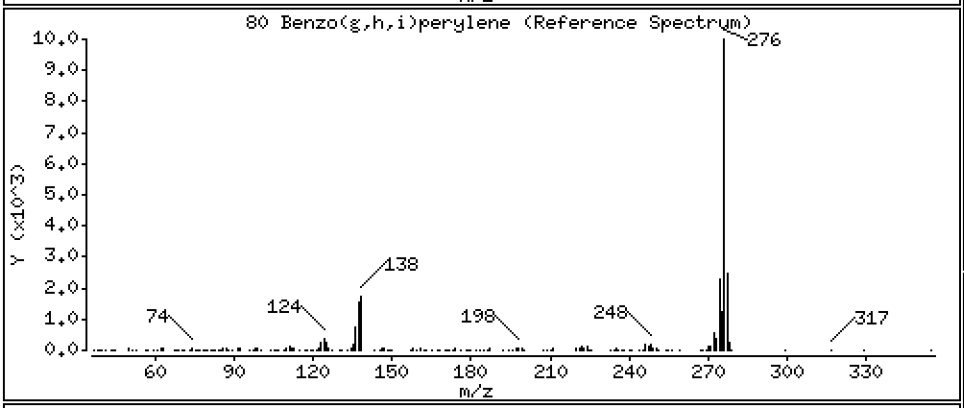
Concentration: 3.803 ug/mL

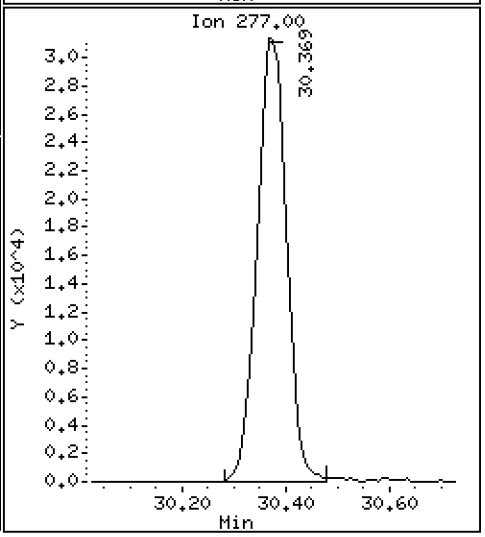


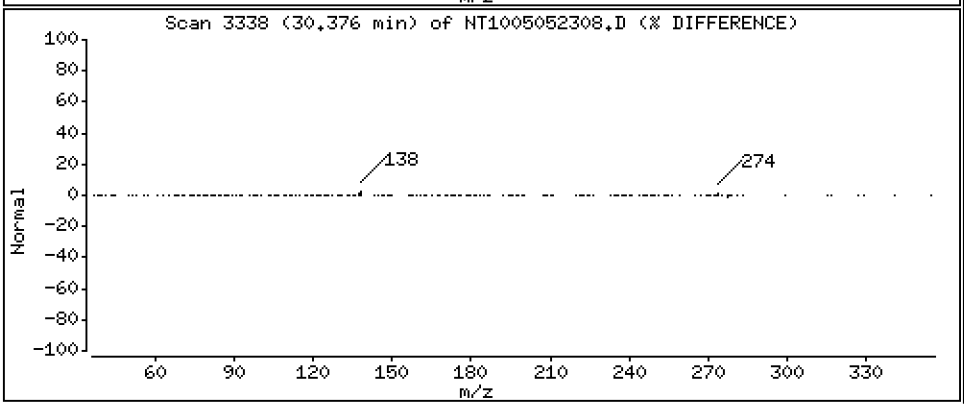












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

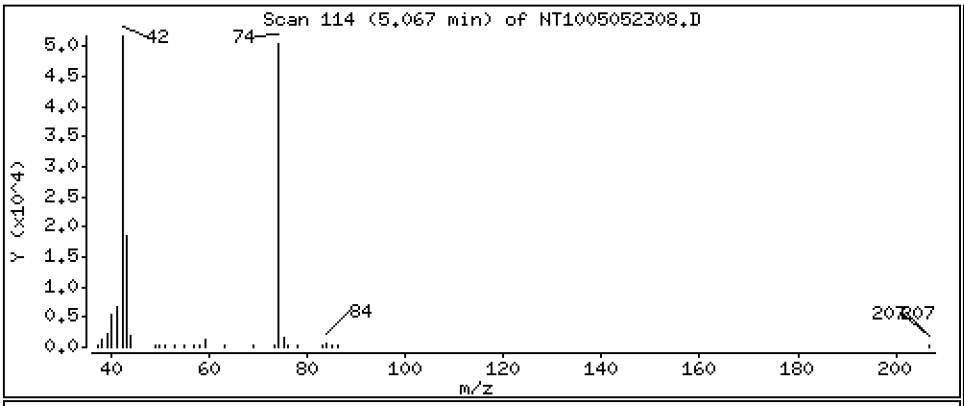
Operator: VTS

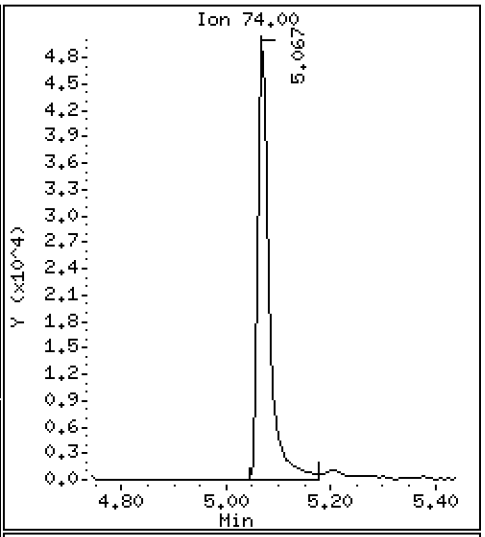
Column phase: ZB-5msi

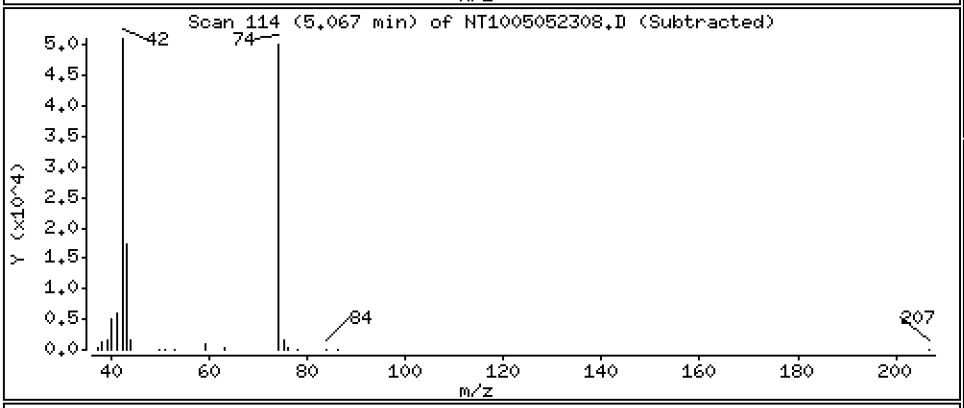
Column diameter: 0.25

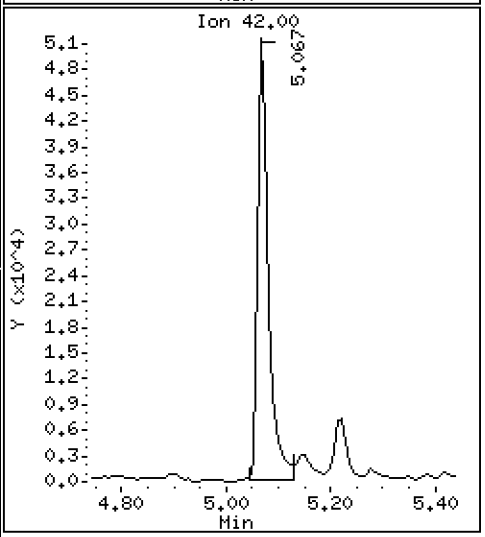
90 N-Nitrosodimethylamine

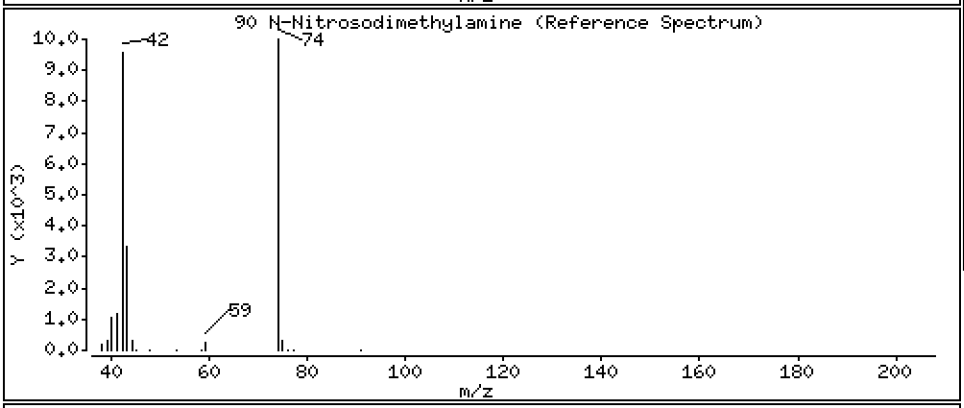
Concentration: 2.992 ug/mL

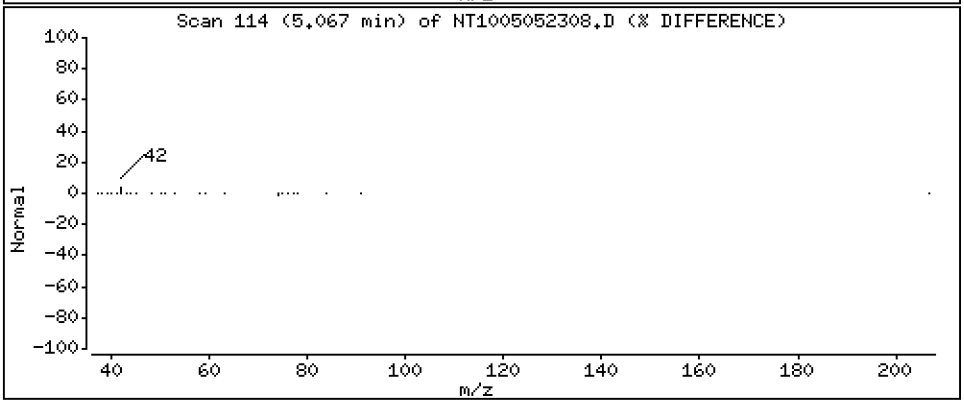












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

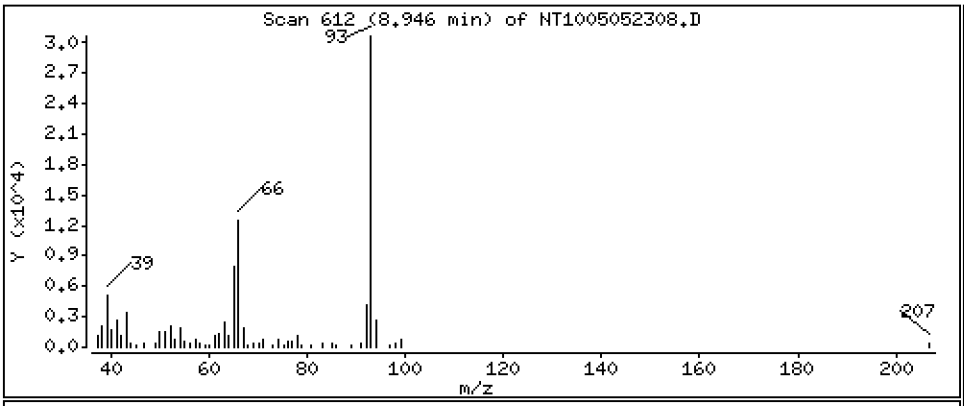
Operator: VTS

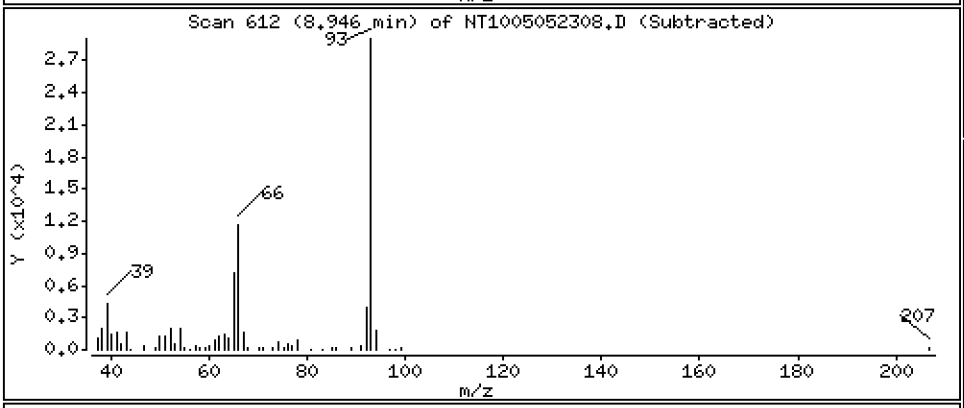
Column phase: ZB-5msi

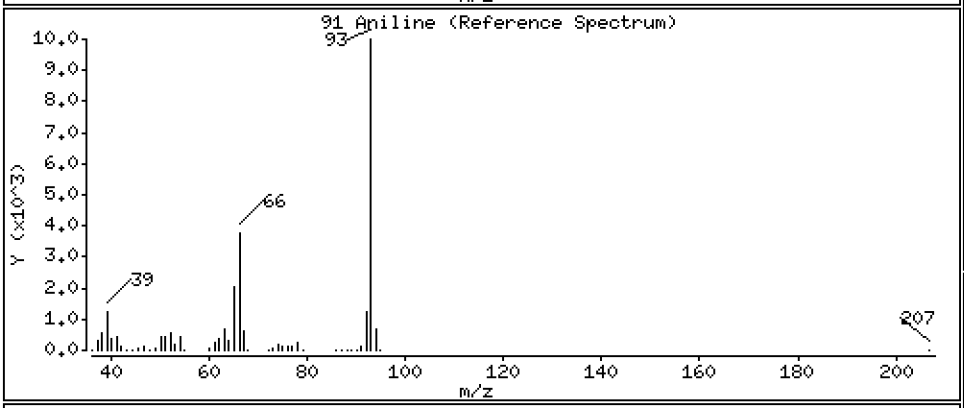
Column diameter: 0.25

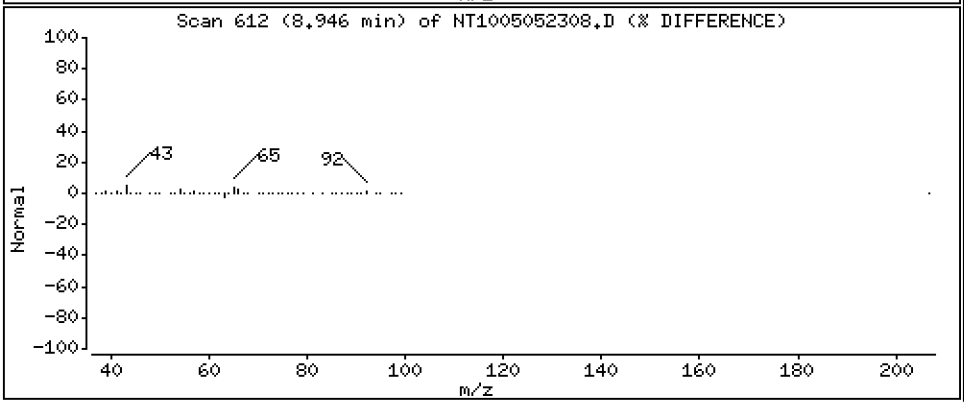
91 Aniline

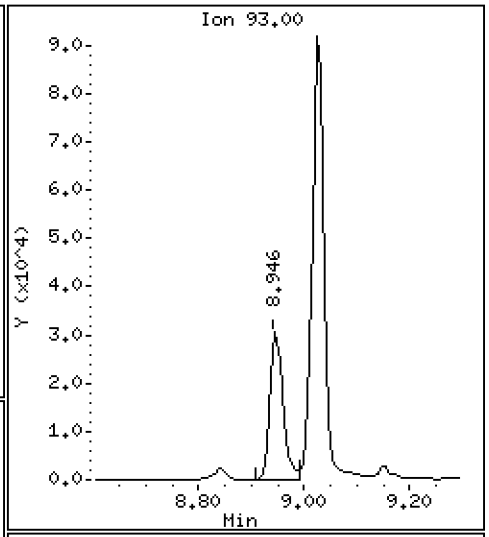
Concentration: 0.9742 ug/mL

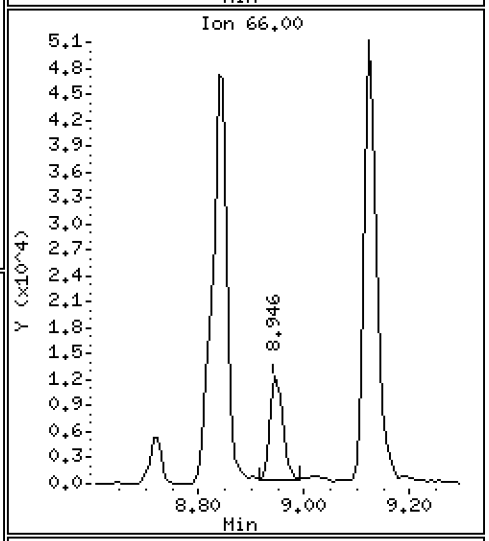


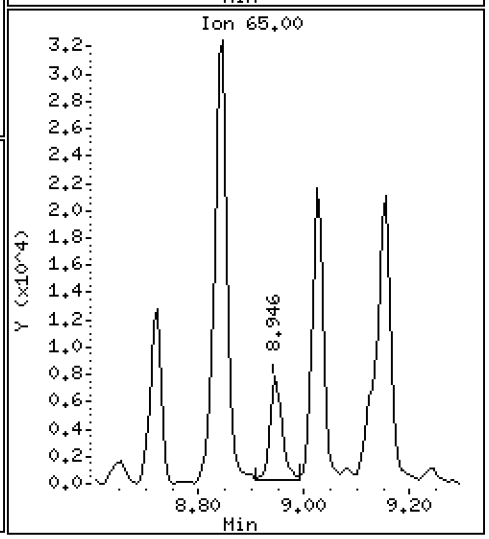












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

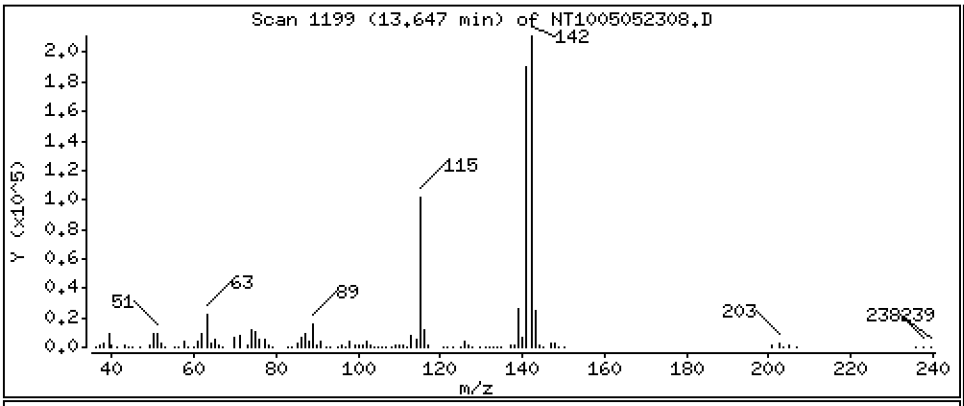
Operator: VTS

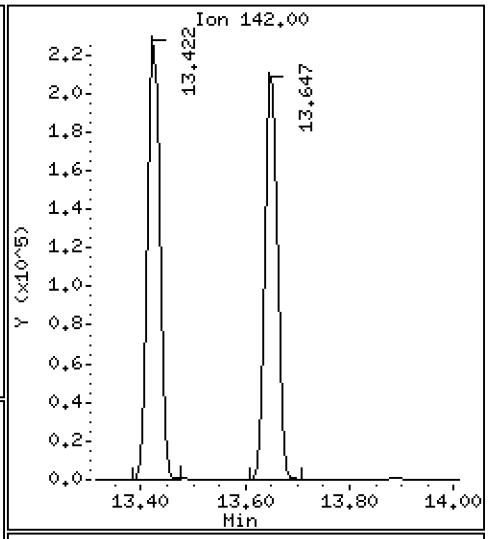
Column phase: ZB-5msi

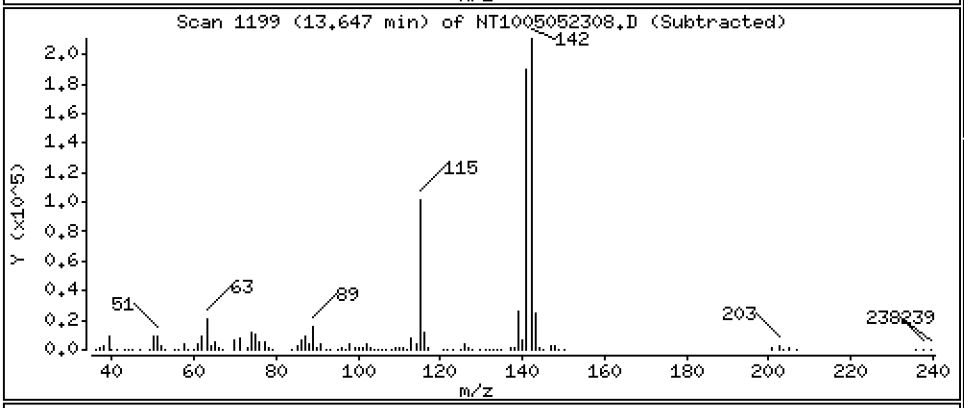
Column diameter: 0.25

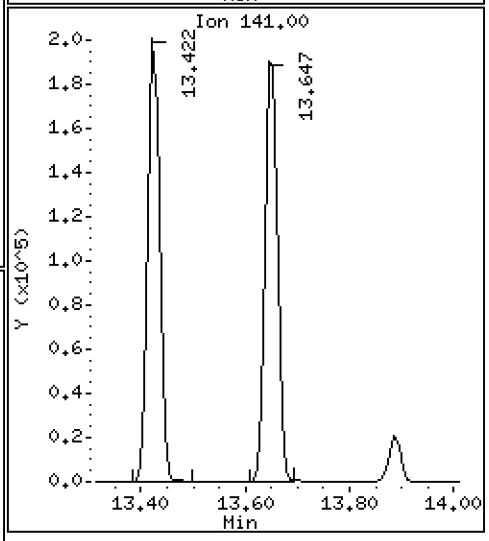
105 1-methylnaphthalene

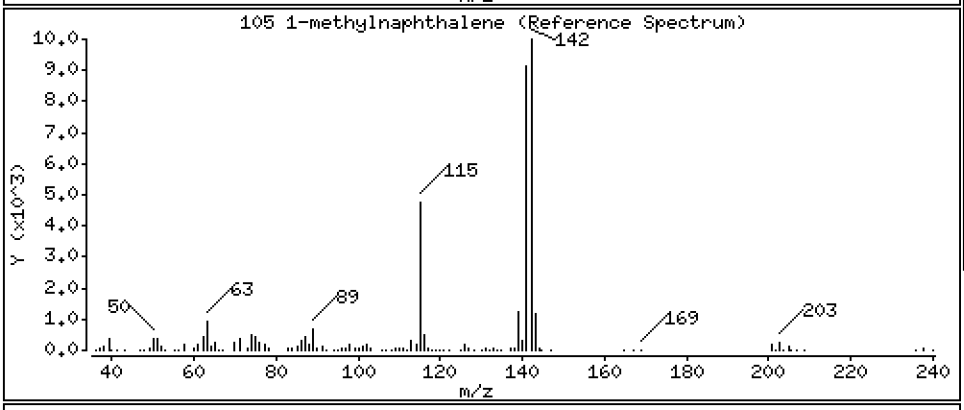
Concentration: 3.147 ug/mL

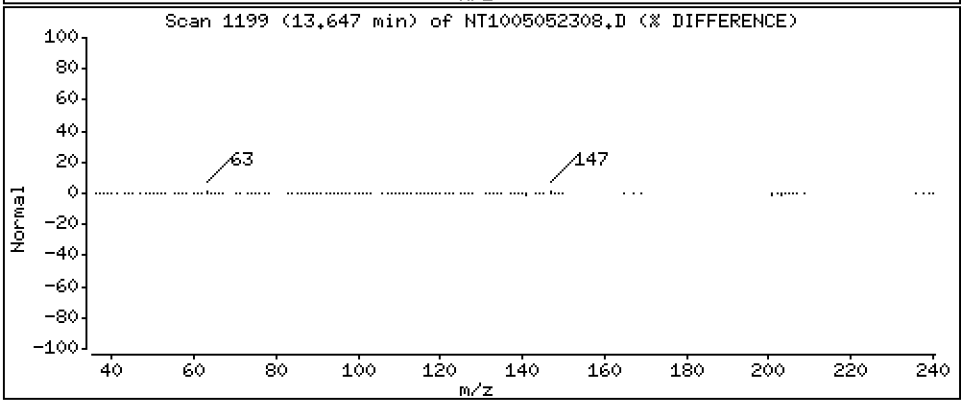












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

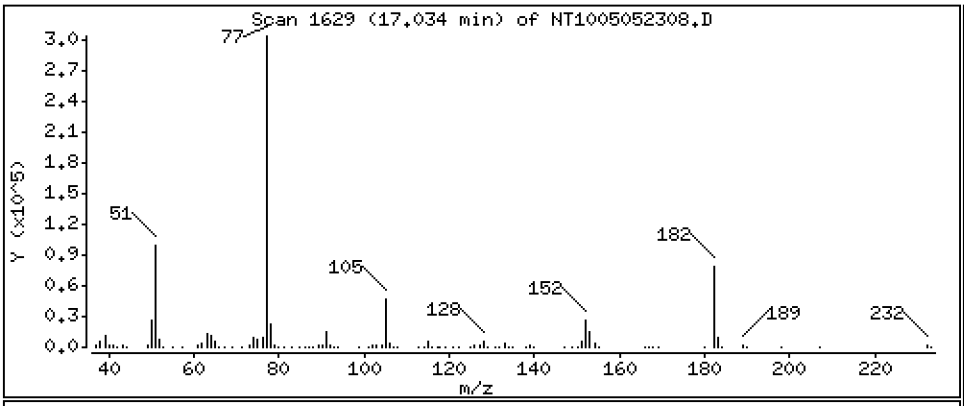
Operator: VTS

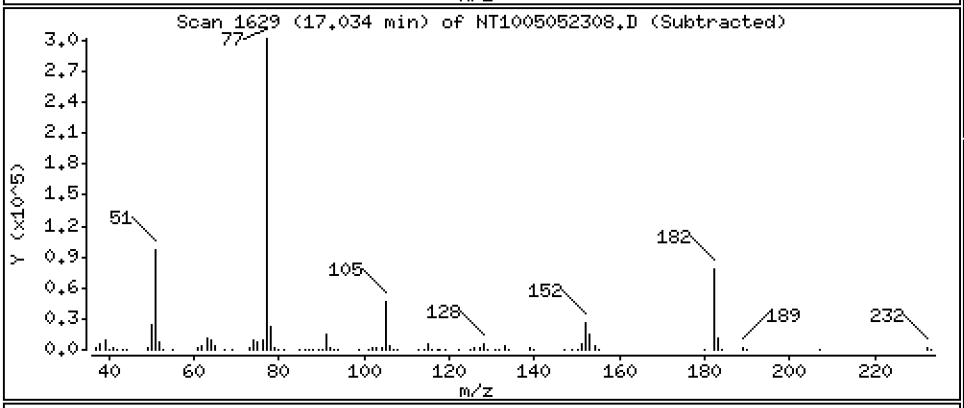
Column phase: ZB-5msi

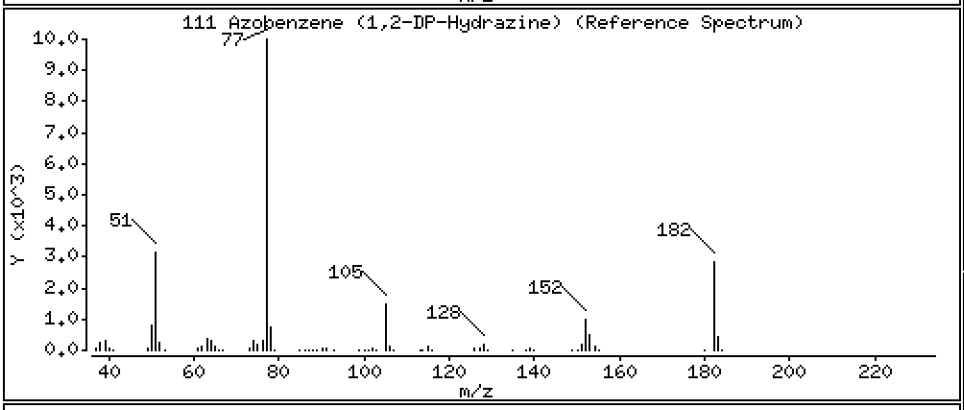
Column diameter: 0.25

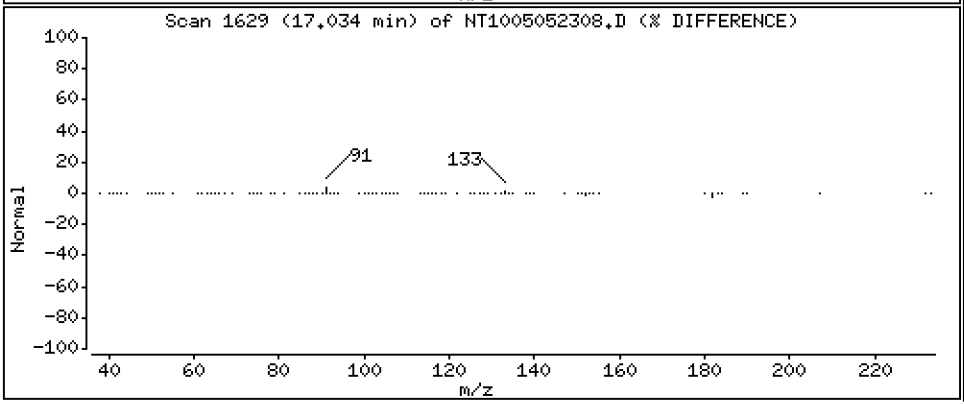
111 Azobenzene (1,2-DP-Hydrazine)

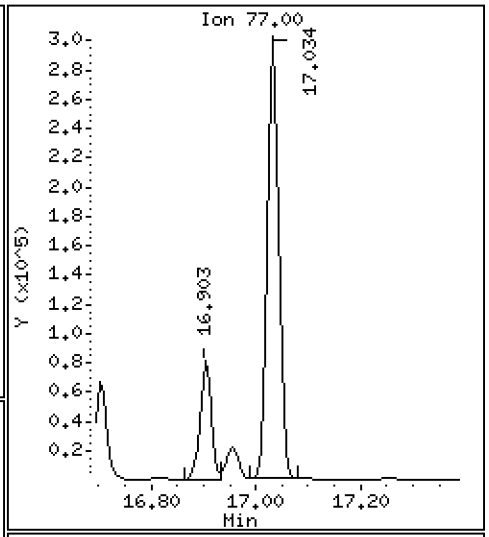
Concentration: 3.588 ug/mL

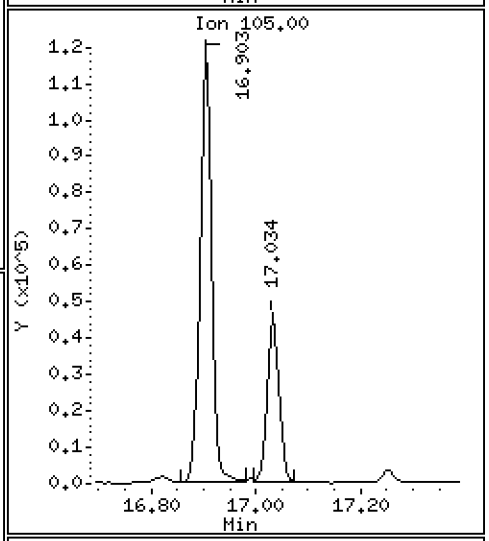


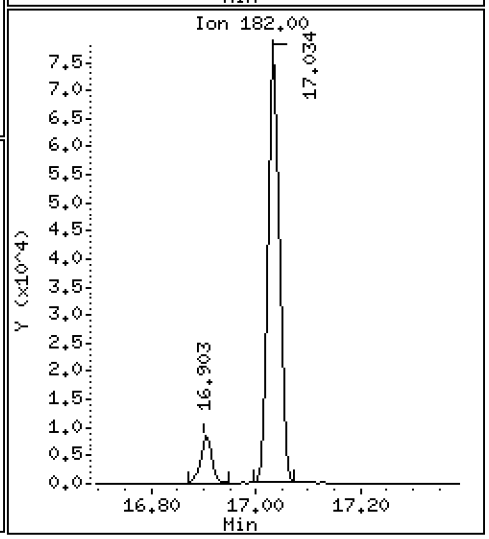












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

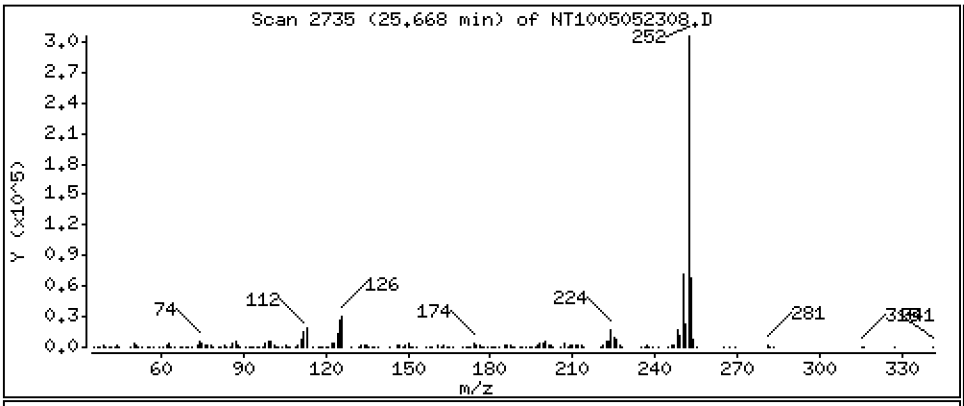
Operator: VTS

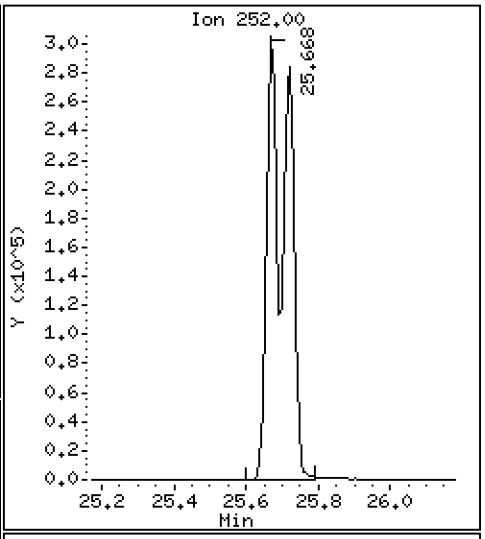
Column phase: ZB-5msi

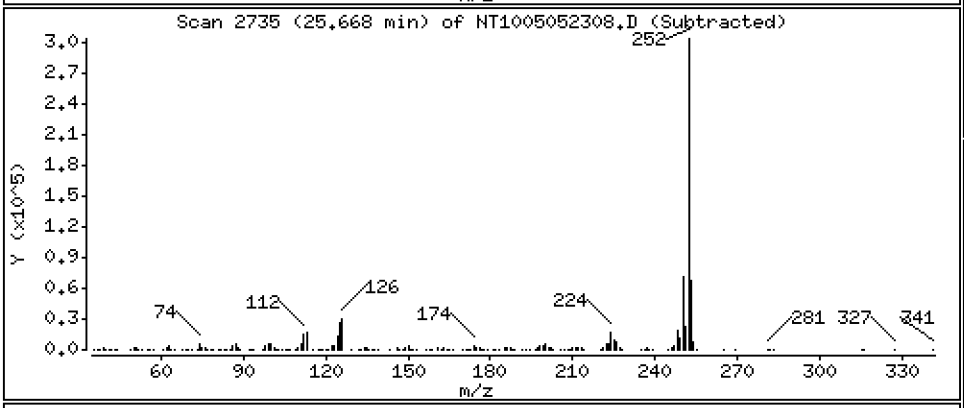
Column diameter: 0.25

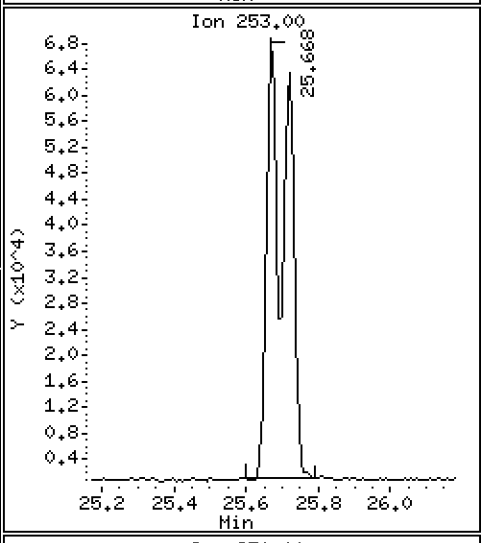
187 Total Benzofluoranthenes

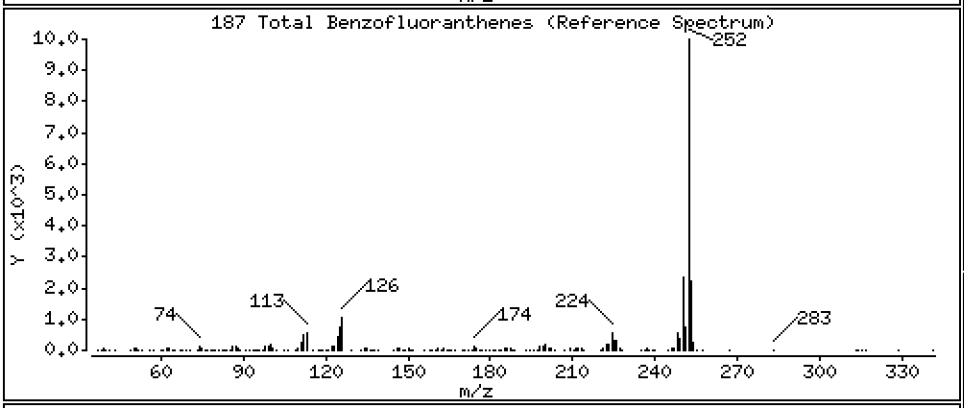
Concentration: 7.338 ug/mL

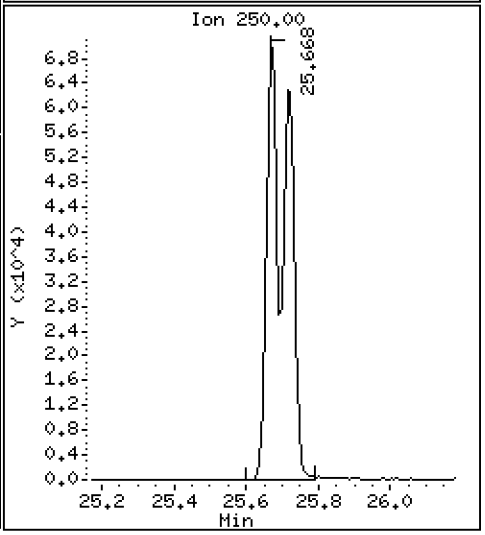


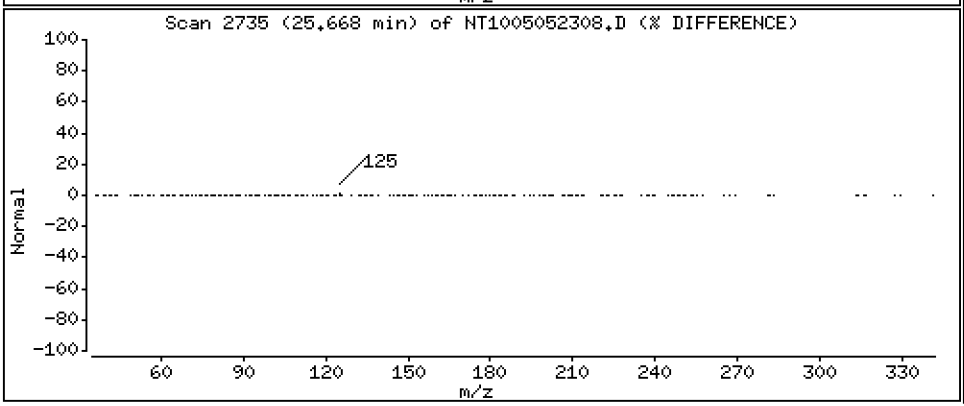












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS1

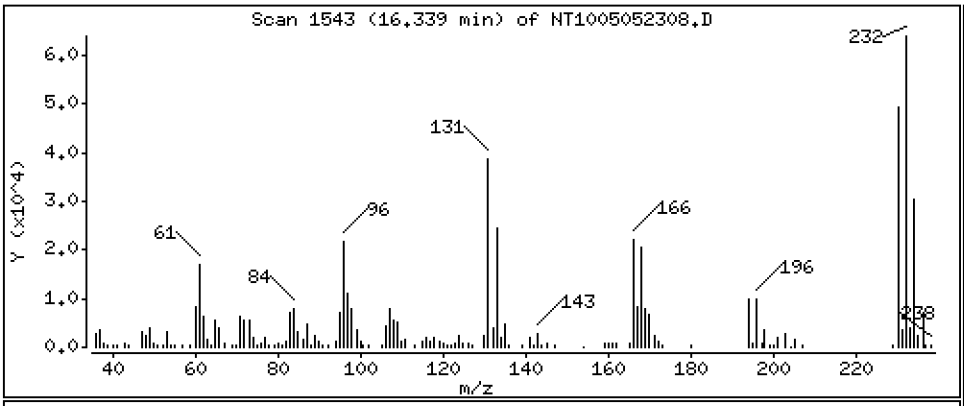
Operator: VTS

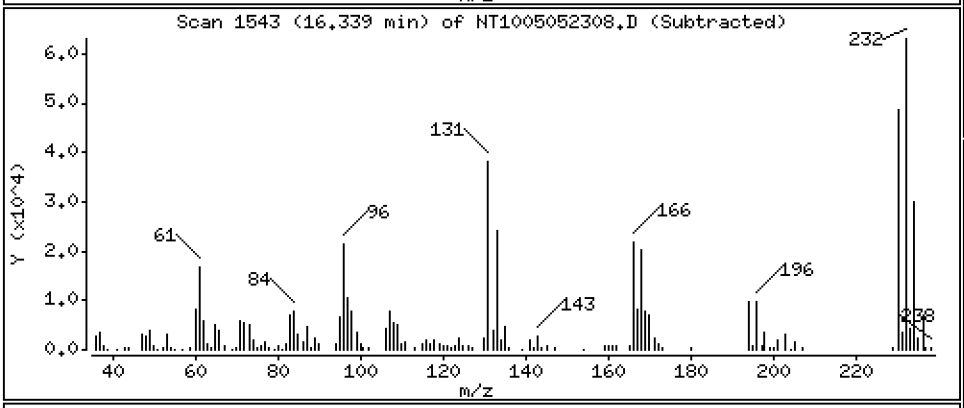
Column phase: ZB-5msi

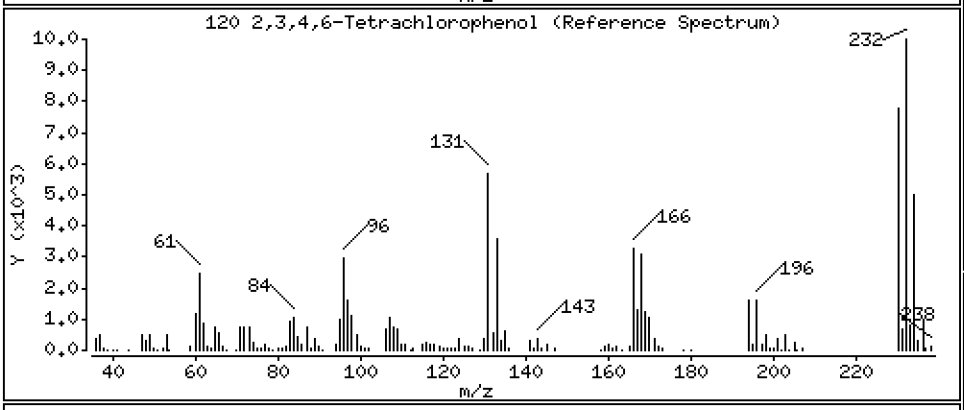
Column diameter: 0.25

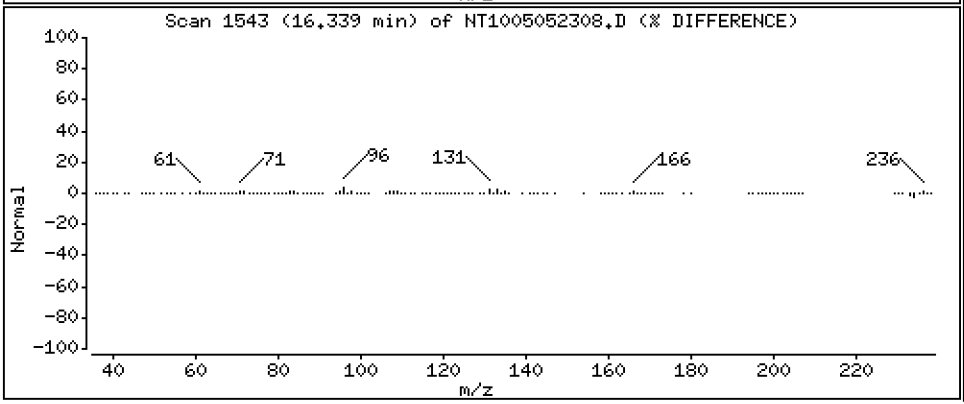
120 2,3,4,6-Tetrachlorophenol

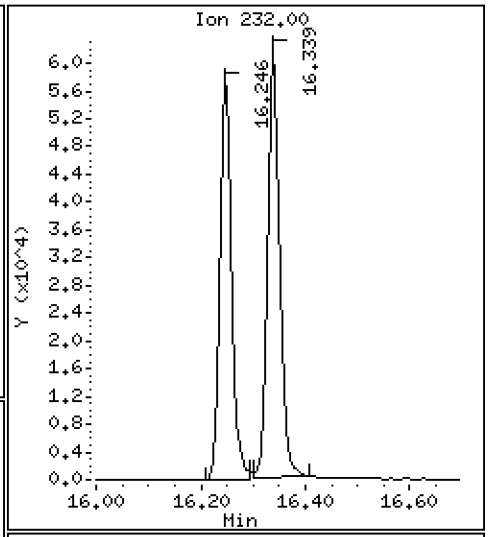
Concentration: 2.293 ug/mL

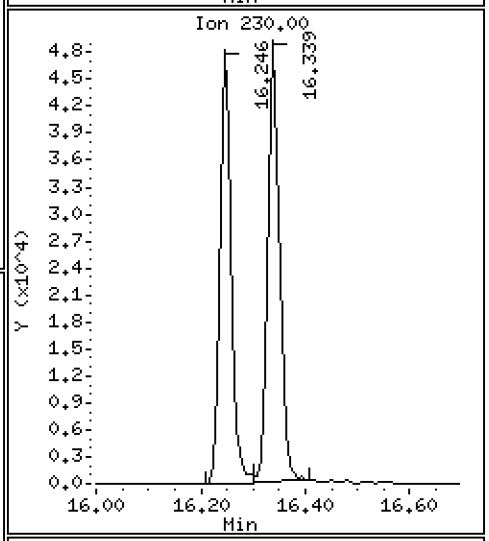


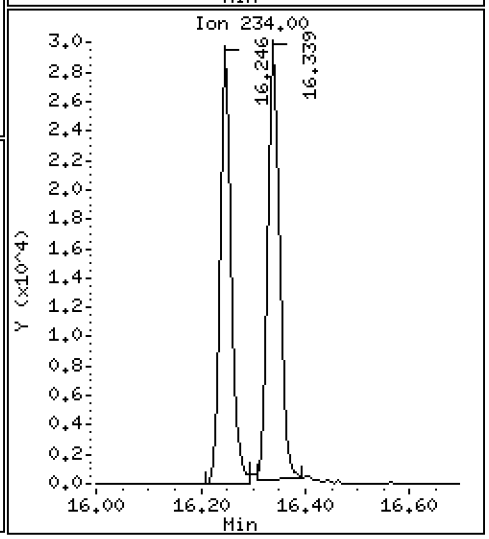












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052308.D
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Inj Date : 05-MAY-2023 15:18
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0329-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.238	7.253	(1.000)	177921	3.63829	3.638	
$	2 Phenol-d5	99	8.821	8.830	(1.000)	223185	3.78549	3.785	
	3 Phenol	94	8.845	8.853	(1.000)	145780	2.31251	2.313	
$	5 2-Chlorophenol-d4	132	9.123	9.139	(1.000)	250298	4.42995	4.430	
	4 Bis(2-Chloroethyl)ether	93	9.022	9.038	(1.000)	141601	3.10428	3.104	
	6 2-Chlorophenol	128	9.154	9.162	(1.000)	148011	2.66269	2.663	
	7 1,3-Dichlorobenzene	146	9.432	9.440	(1.000)	176284	2.81474	2.815	
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.502	(1.000)	161608	4.00000	(M)	
	9 1,4-Dichlorobenzene	146	9.525	9.533	(1.000)	170865	2.77732	2.777	
$	10 1,2-Dichlorobenzene-d4	152	9.851	9.867	(1.000)	120692	2.89550	2.895	
	12 1,2-Dichlorobenzene	146	9.882	9.890	(1.000)	173446	2.90386	2.904	
	11 Benzyl alcohol	108	9.750	9.766	(1.000)	90903	3.00005	3.000	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.069	(1.000)	60217	3.49069	3.491	
	13 2-Methylphenol	108	9.968	9.976	(1.000)	112256	2.42788	2.428	
	17 Hexachloroethane	117	10.480	10.488	(1.000)	82263	3.09248	3.092	
	16 N-Nitroso-di-n-propylamine	70	10.309	10.325	(1.000)	111491	3.04440	3.044	
	15 4-Methylphenol	108	10.239	10.240	(1.000)	147441	2.65630	2.656	
$	18 Nitrobenzene-d5	82	10.589	10.604	(0.883)	209068	3.35097	3.351	
	19 Nitrobenzene	77	10.627	10.636	(0.886)	194715	3.22933	3.229	
	20 Isophorone	82	11.070	11.078	(0.923)	358627	4.99606	4.996	
	21 2-Nitrophenol	139	11.257	11.266	(0.939)	84596	2.64164	2.642	
	22 2,4-Dimethylphenol	107	11.282	11.300	(0.941)	241111	4.09502	4.095	
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.503	(0.958)	184334	4.01721	4.017	
	24 Benzoic acid	105	11.427	11.486	(0.953)	179724	4.40217	4.402	
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	407720	8.81471	8.815	
	26 1,2,4-Trichlorobenzene	180	11.898	11.906	(0.992)	195302	2.94797	2.948	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	558307	4.00000		
	28 Naphthalene	128	12.029	12.037	(1.003)	478691	3.07314	3.073	
	29 4-Chloroaniline	127	12.153	12.161	(1.014)	205100	3.57823	3.578	
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	110604	3.02730	3.027	
	31 4-Chloro-3-methylphenol	107	13.089	13.105	(1.092)	473943	9.40201	9.402	
	32 2-Methylnaphthalene	142	13.422	13.437	(1.119)	349381	2.99995	3.000	
	33 Hexachlorocyclopentadiene	237	13.886	13.902	(0.889)	199258	5.00056	5.001	

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	333825	8.50464	8.505
	35	2,4,5-Trichlorophenol	196	14.110	14.118	(0.903)	367854	8.59398	8.594
$	36	2-Fluorobiphenyl	172	14.203	14.211	(0.909)	439915	3.17104	3.171
	37	2-Chloronaphthalene	162	14.420	14.436	(0.923)	341701	3.12736	3.127
	38	2-Nitroaniline	65	14.683	14.691	(0.940)	311153	9.80574	9.806
	39	Dimethylphthalate	163	15.101	15.109	(0.967)	445254	3.62400	3.624
	40	Acenaphthylene	152	15.302	15.310	(0.980)	509497	2.98736	2.987
	41	2,6-Dinitrotoluene	165	15.248	15.256	(0.976)	264419	9.53483	9.535
*	42	Acenaphthene-d10	164	15.620	15.628	(1.000)	320442	4.00000	
	43	3-Nitroaniline	138	15.534	15.543	(0.995)	215763	7.90386	7.904
	44	Acenaphthene	153	15.681	15.689	(1.004)	345529	3.18543	3.185
	45	2,4-Dinitrophenol	184	15.743	15.759	(1.008)	258692	11.8608	11.86
	46	Dibenzofuran	168	16.006	16.014	(1.025)	505126	3.19384	3.194
	47	4-Nitrophenol	109	15.836	15.844	(1.014)	202705	7.90616	7.906
	48	2,4-Dinitrotoluene	165	16.060	16.068	(1.028)	355844	8.90835	8.908
	50	Diethylphthalate	149	16.563	16.571	(1.060)	506018	3.96669	3.967
	49	Fluorene	166	16.725	16.733	(1.071)	412971	3.16524	3.165
	51	4-Chlorophenyl-phenylether	204	16.702	16.710	(1.069)	217363	3.34565	3.346
	52	4-Nitroaniline	138	16.817	16.825	(1.077)	214836	8.00833	8.008
	53	4,6-Dinitro-2-methylphenol	198	16.902	16.918	(0.905)	400463	17.4685	17.47
	54	N-Nitrosodiphenylamine	169	16.956	16.964	(0.908)	233861	3.10580	3.106
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	77299	4.90129	4.901
	56	4-Bromophenyl-phenylether	248	17.720	17.728	(0.949)	130722	3.67750	3.678
	57	Hexachlorobenzene	284	18.044	18.052	(0.966)	116810	3.27395	3.274
	58	Pentachlorophenol	266	18.393	18.401	(0.985)	197225	7.82011	7.820
*	59	Phenanthrene-d10	188	18.671	18.679	(1.000)	569811	4.00000	
	60	Phenanthrene	178	18.718	18.726	(1.002)	570033	3.40938	3.409
	61	Anthracene	178	18.810	18.818	(1.007)	456191	2.95265	2.953
	62	Carbazole	167	19.135	19.136	(1.025)	496381	3.62949	3.629
	63	Di-n-butylphthalate	149	19.901	19.902	(1.066)	831754	3.99046	3.990
	64	Fluoranthene	202	21.085	21.085	(0.890)	740417	3.54161	3.542
	65	Pyrene	202	21.503	21.511	(0.908)	736906	3.52851	3.529
$	66	Terphenyl-d14	244	21.774	21.782	(0.919)	623609	3.77553	3.776
	67	Butylbenzylphthalate	149	22.687	22.695	(0.958)	347023	3.67079	3.671
	68	Benzo(a)anthracene	228	23.655	23.663	(0.999)	657313	3.54590	3.546
*	69	Chrysene-d12	240	23.686	23.694	(1.000)	468254	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.609	23.609	(0.997)	258332	4.51565	4.516
	71	Chrysene	228	23.733	23.741	(1.002)	588605	3.54763	3.548
	72	bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	487795	4.08248	4.082
*	134	Di-n-octylphthalate-d4	153	24.731	24.739	(1.000)	829477	4.00000	
	73	Di-n-octylphthalate	149	24.739	24.747	(1.000)	871247	3.98127	3.981
	74	Benzo(b)fluoranthene	252	25.668	25.676	(0.968)	606417	3.61254	3.613
	75	Benzo(k)fluoranthene	252	25.722	25.730	(0.970)	627778	3.76876	3.769
	76	Benzo(a)pyrene	252	26.404	26.404	(0.995)	490930	3.49403	3.494
*	77	Perylene-d12	264	26.527	26.528	(1.000)	408634	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.498	29.498	(1.112)	634705	3.76026	3.760
	79	Dibenzo(a,h)anthracene	278	29.506	29.514	(1.112)	524390	3.70952	3.710
	80	Benzo(g,h,i)perylene	276	30.376	30.376	(1.145)	511685	3.80324	3.803
	90	N-Nitrosodimethylamine	74	5.067	5.090	(1.000)	79037	2.99223	2.992
	91	Aniline	93	8.945	8.953	(1.000)	50618	0.97424	0.9742
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.646	13.662	(1.138)	335983	3.14670	3.147
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.033	17.041	(1.091)	447096	3.58750	3.588

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.668	25.676	(0.968)	1185732	7.33820	7.338
120 2,3,4,6-Tetrachlorophenol	232	16.338	16.346	(1.046)	95895	2.29311	2.293

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052308.D
Lab Smp Id: BLD0329-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	161608	-9.95
27 Naphthalene-d8	621628	310814	1243256	558307	-10.19
42 Acenaphthene-d10	353112	176556	706224	320442	-9.25
59 Phenanthrene-d10	694933	347467	1389866	569811	-18.00
69 Chrysene-d12	553967	276984	1107934	468254	-15.47
134 Di-n-octylphthala	895601	447801	1791202	829477	-7.38
77 Perylene-d12	482573	241287	965146	408634	-15.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.09
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.07
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.69	-0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.73	-0.03
77 Perylene-d12	26.53	26.03	27.03	26.53	-0.00

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

REVIEW SUMMARY FOR FILE - NT1005052308.D

Lab ID: BLD0329-BS1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 15:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.060	-0.0596	2,2'-oxybis(1-Chloropropane)

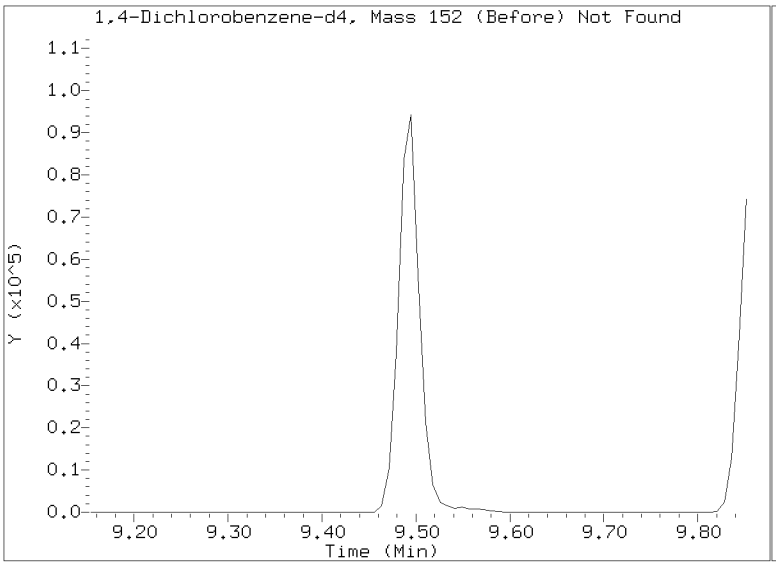
RRT check based on Ccal File: NT1005052303.D

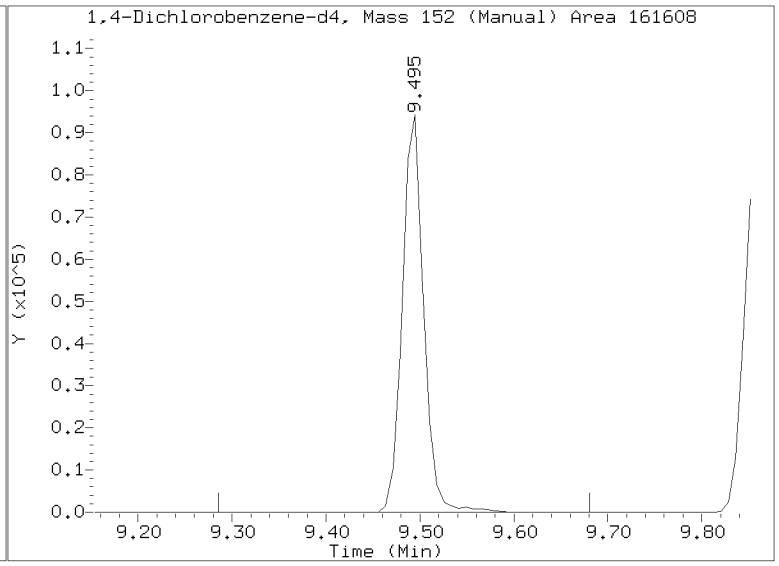
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052308.D
Injection Date: 05-MAY-2023 15:18
Lab ID:BLD0329-BS1 Client ID:
Report Date: 05/08/2023 10:14



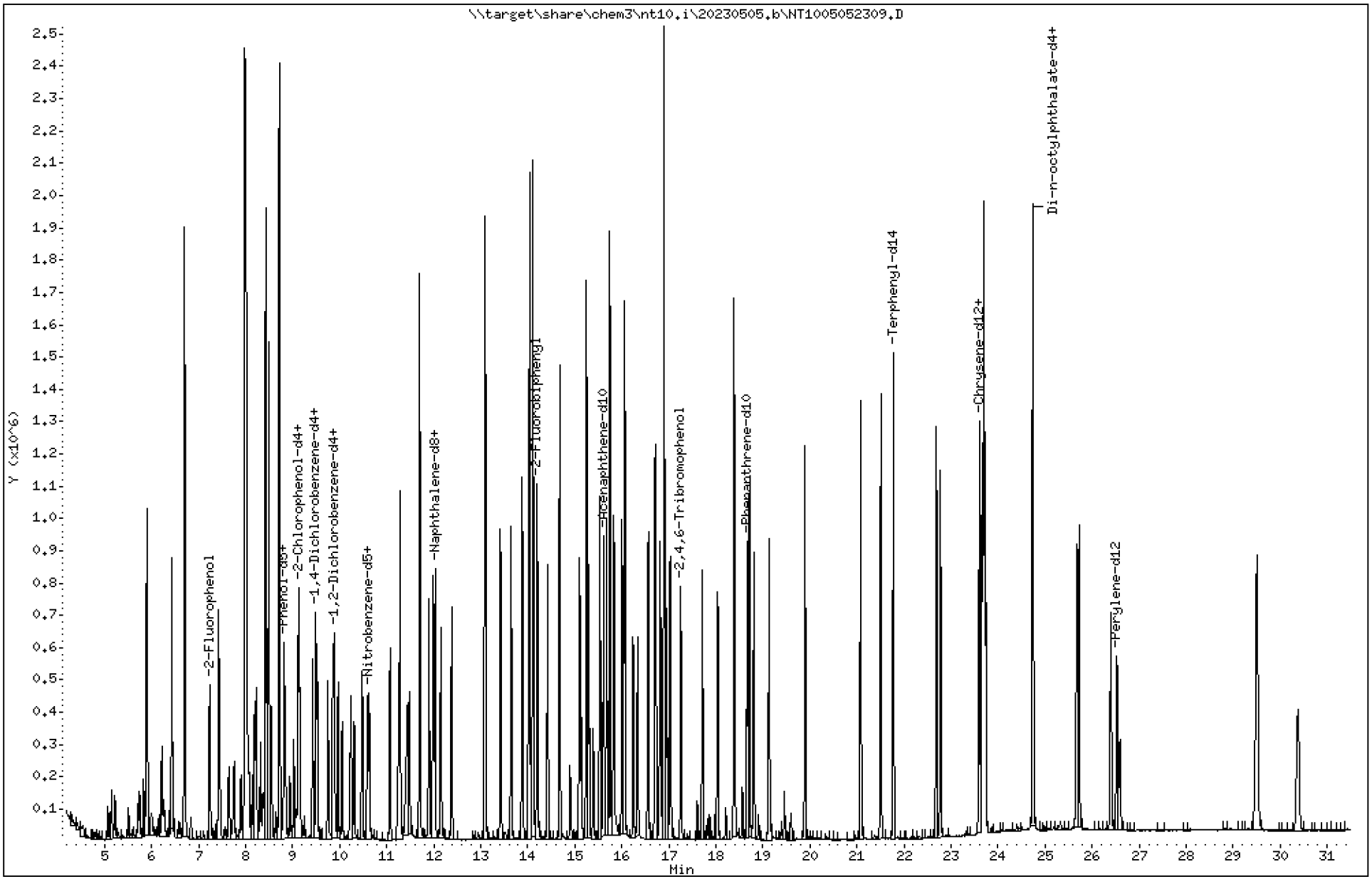


APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D
Date : 05-MAY-2023 15:57
Client ID:
Sample Info: BLD0329-BSD1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

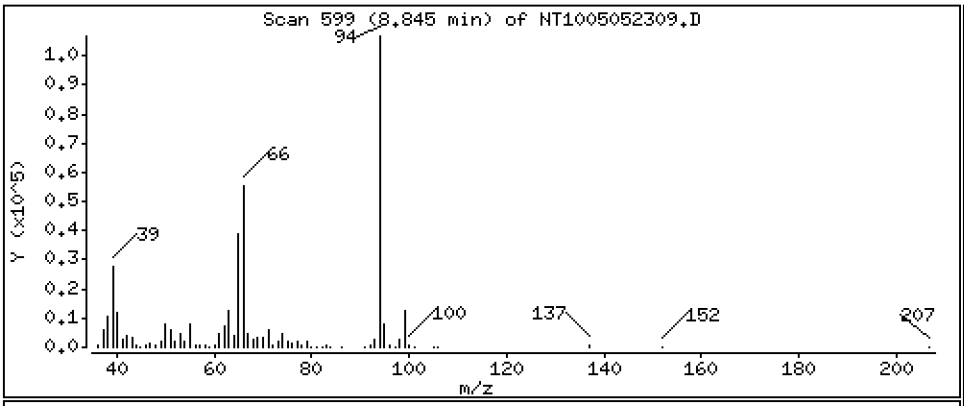
Operator: VTS

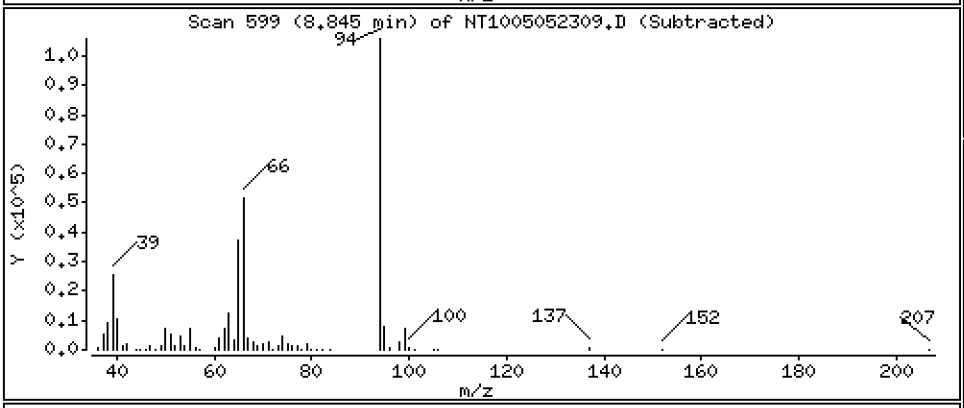
Column phase: ZB-5msi

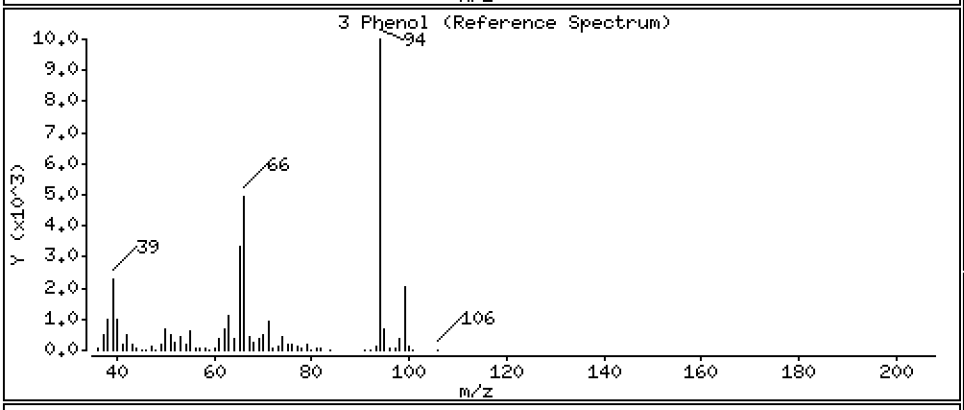
Column diameter: 0.25

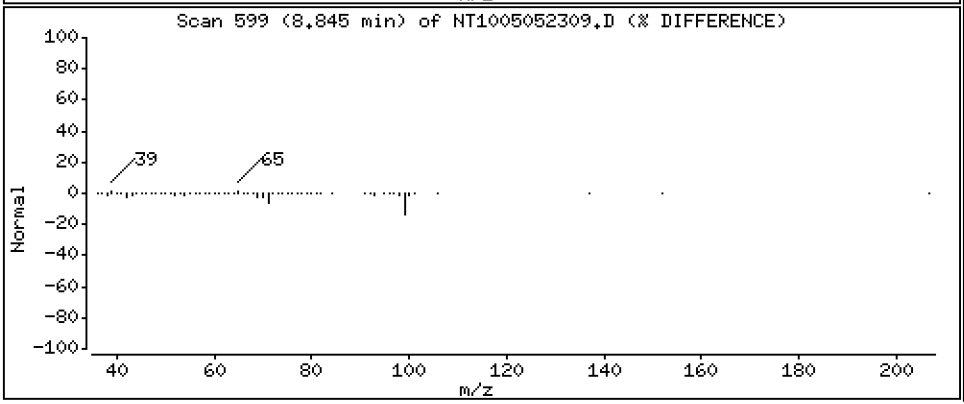
3 Phenol

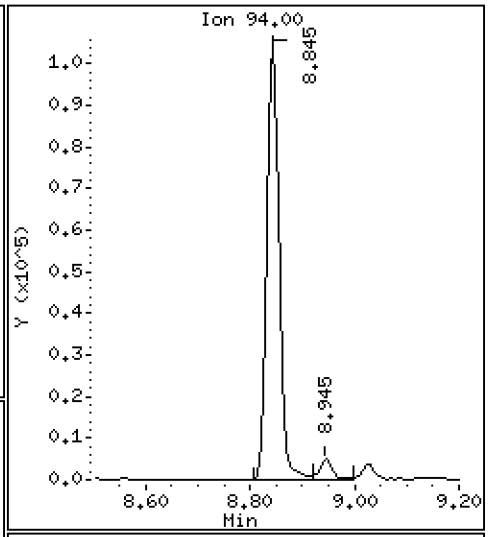
Concentration: 2.617 ug/mL

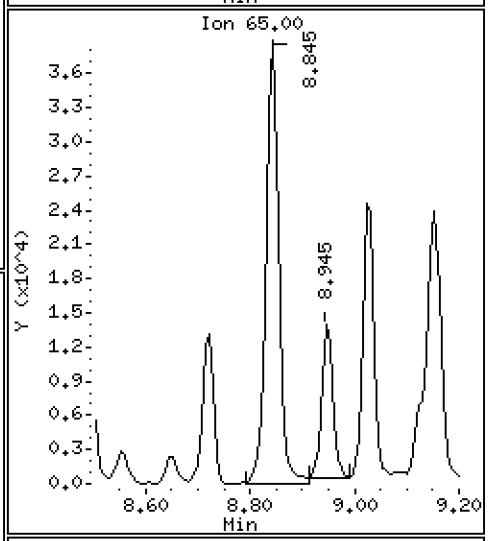


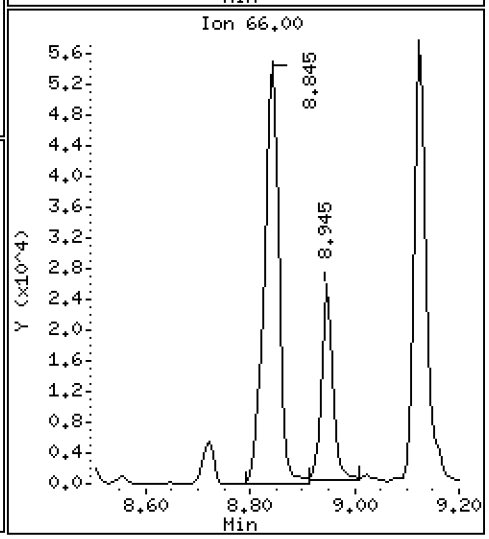












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

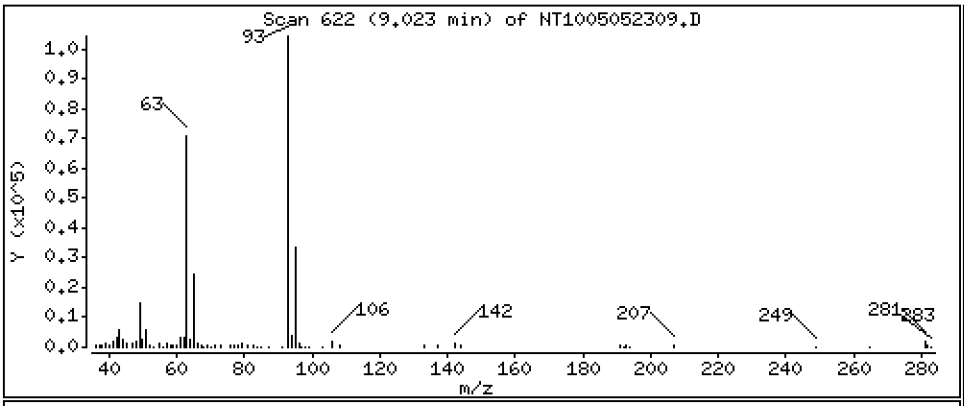
Operator: VTS

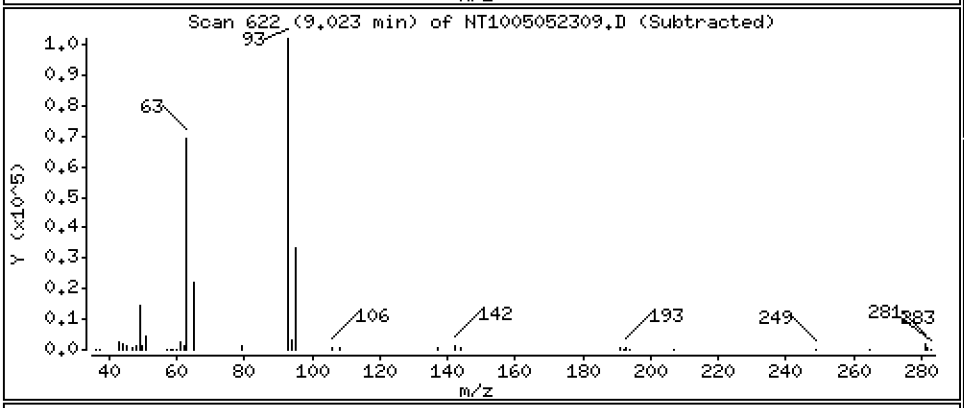
Column phase: ZB-5msi

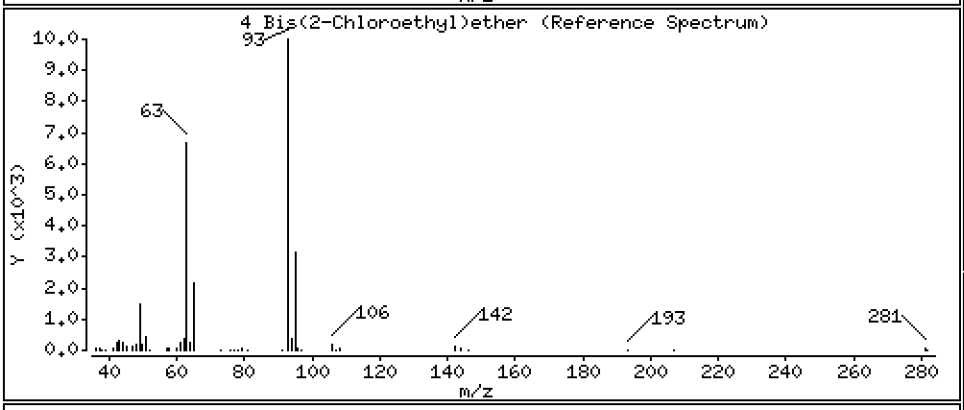
Column diameter: 0.25

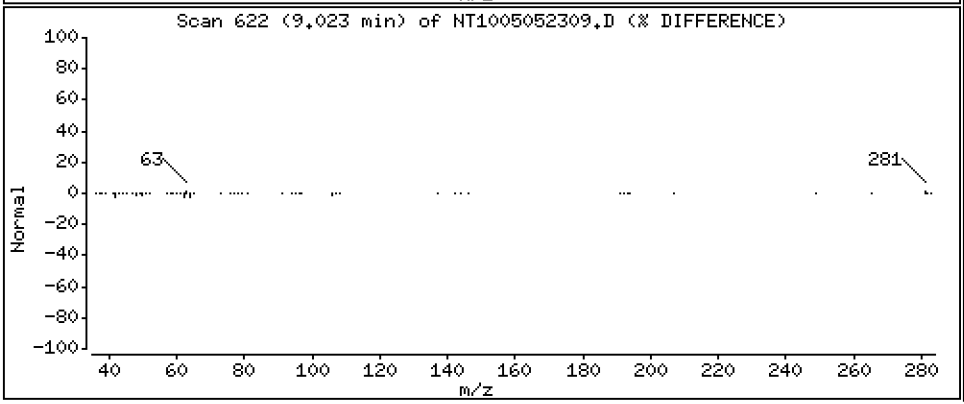
4 Bis(2-Chloroethyl)ether

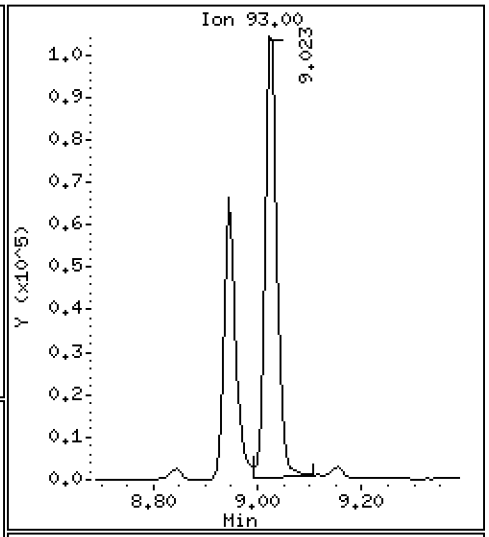
Concentration: 3.727 ug/mL

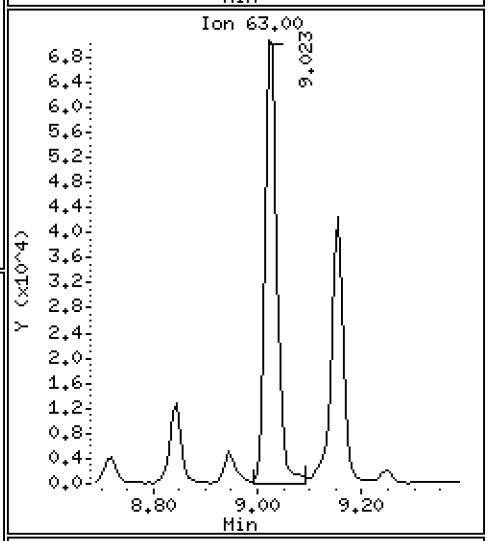


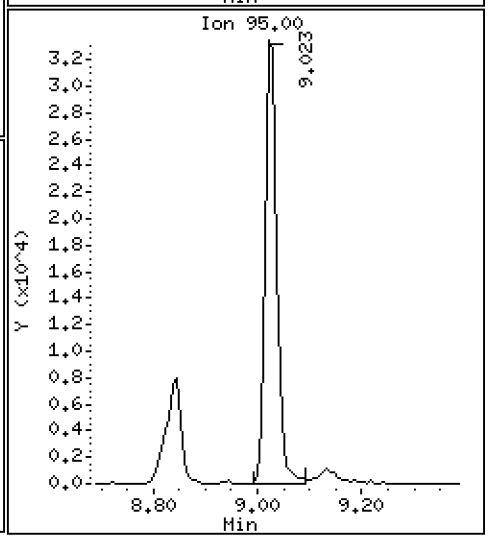












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

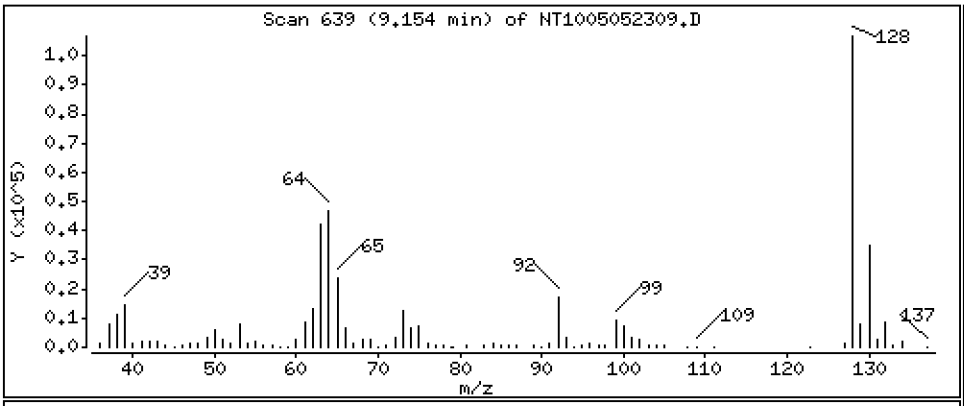
Operator: VTS

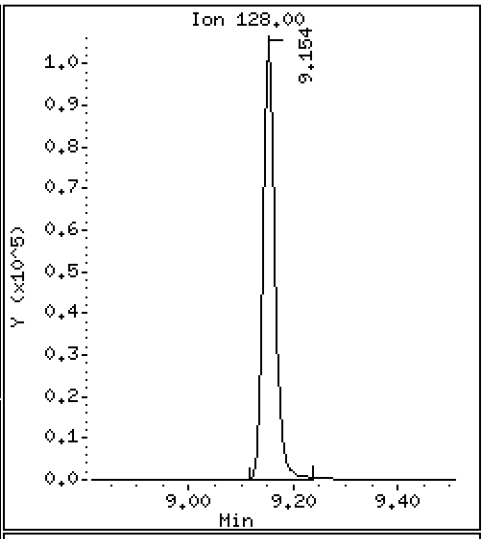
Column phase: ZB-5msi

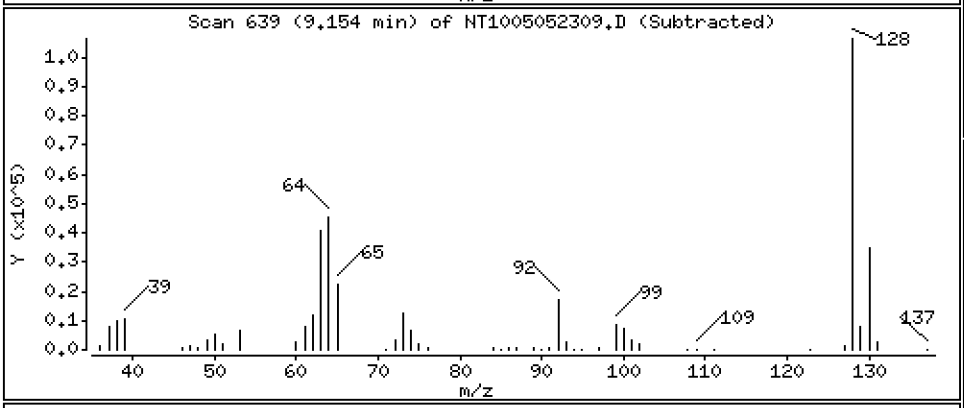
Column diameter: 0.25

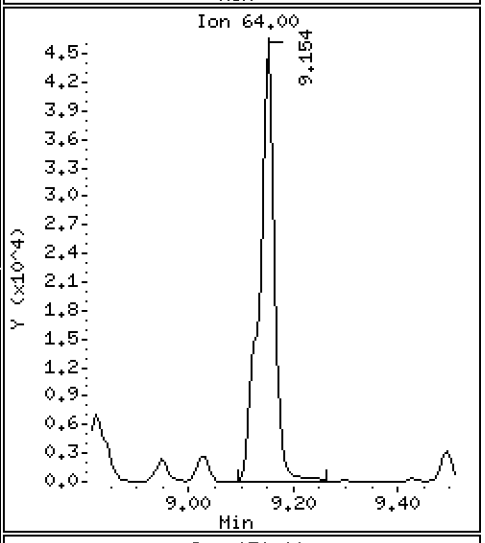
6 2-Chlorophenol

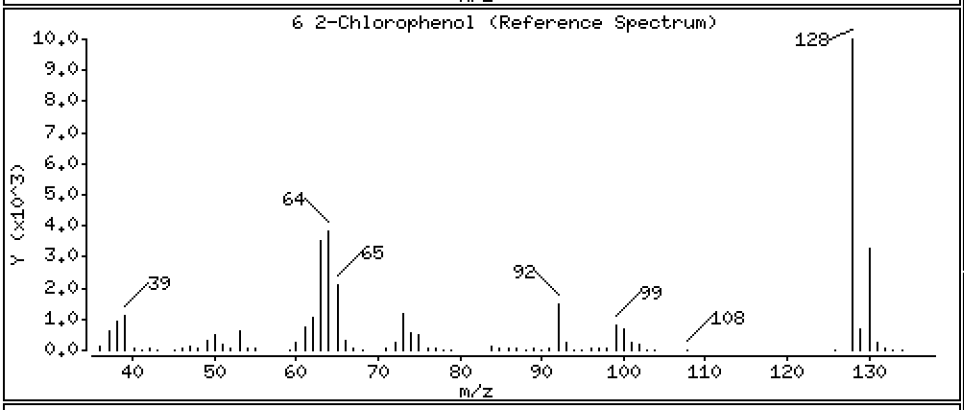
Concentration: 3.131 ug/mL

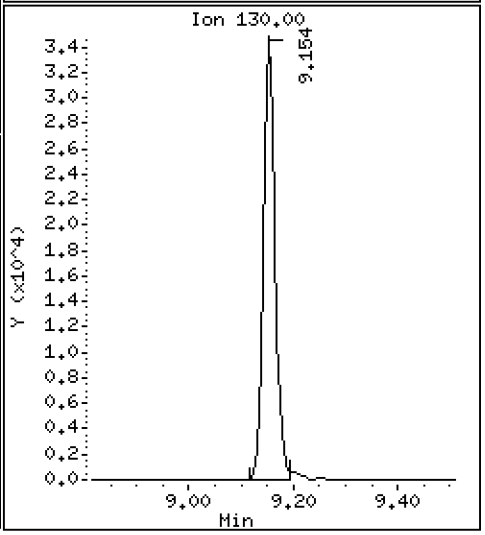


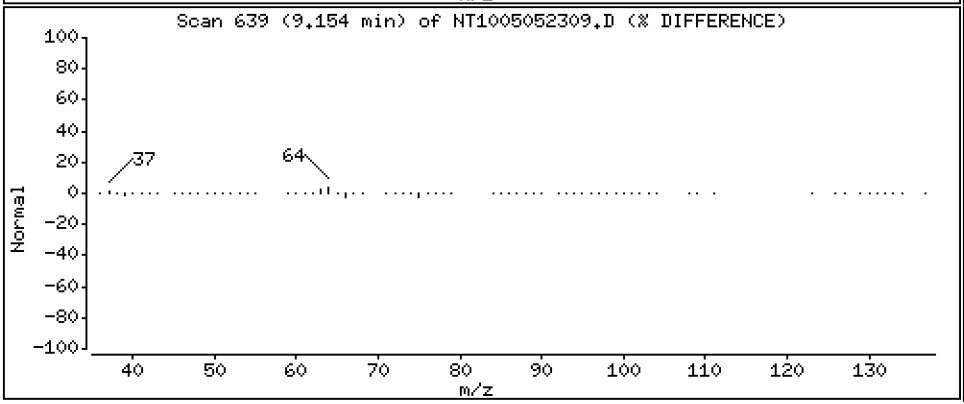












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

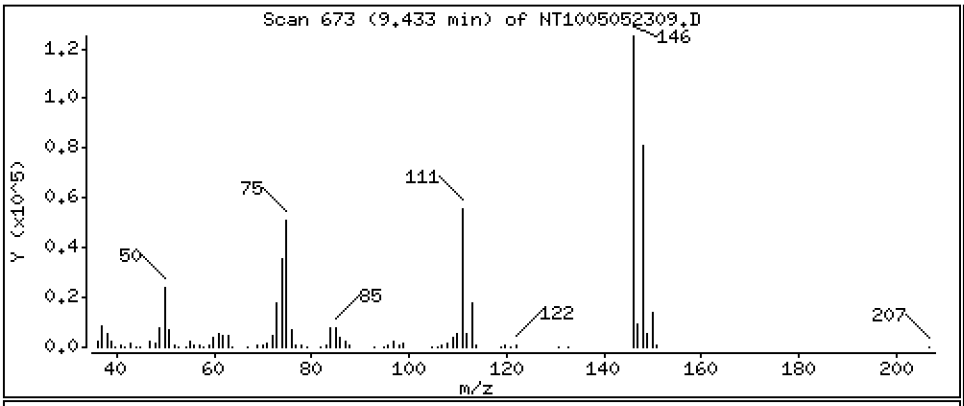
Operator: VTS

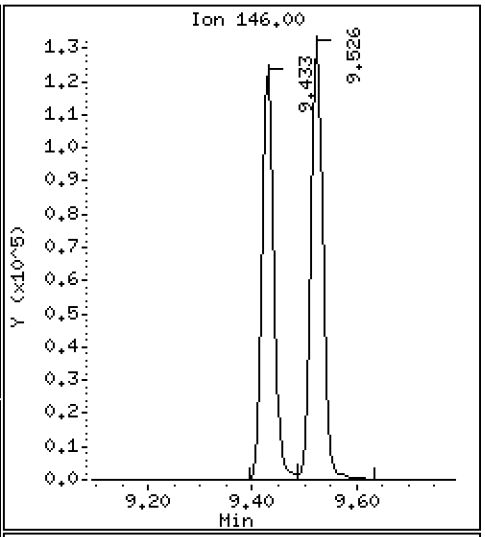
Column phase: ZB-5msi

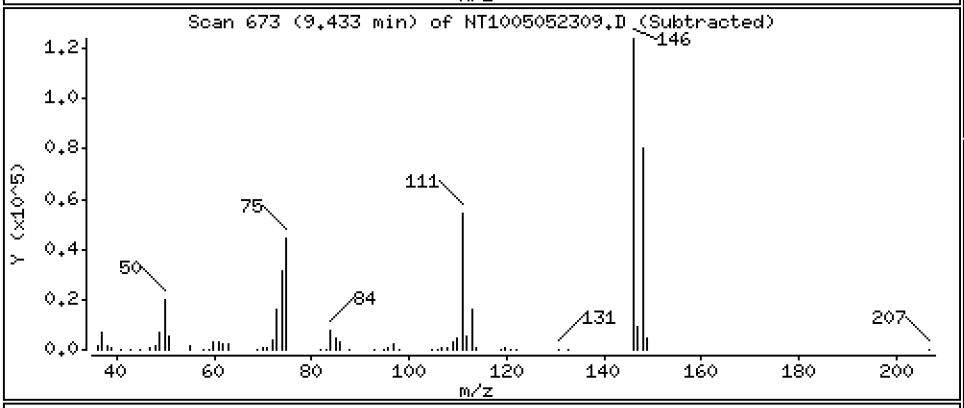
Column diameter: 0.25

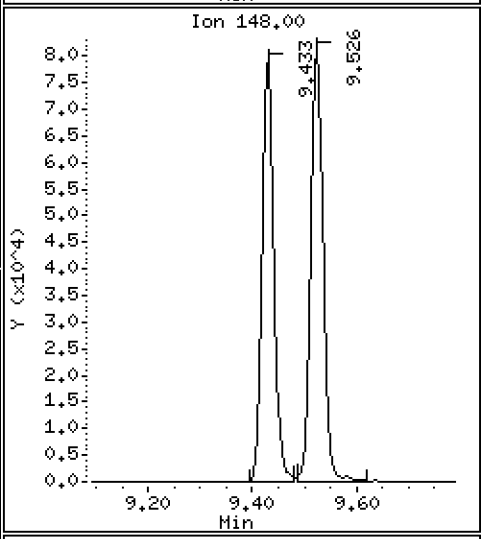
7 1,3-Dichlorobenzene

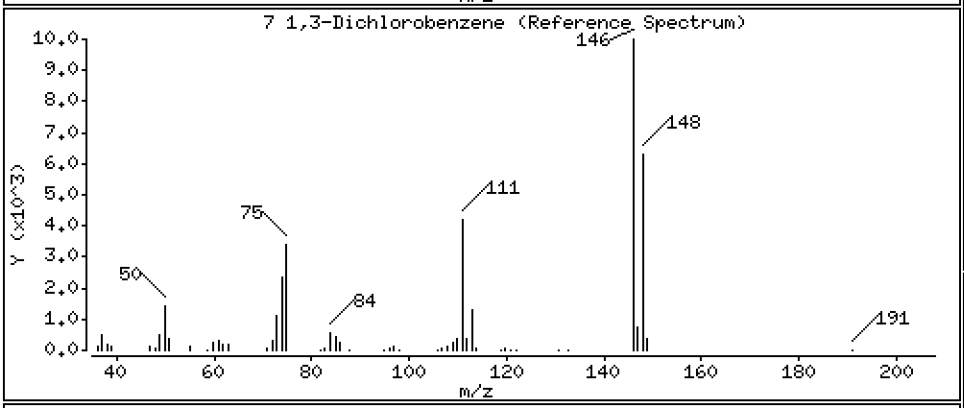
Concentration: 3.285 ug/mL

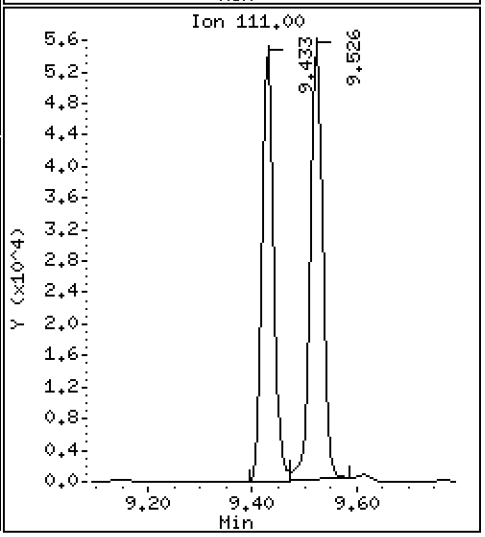


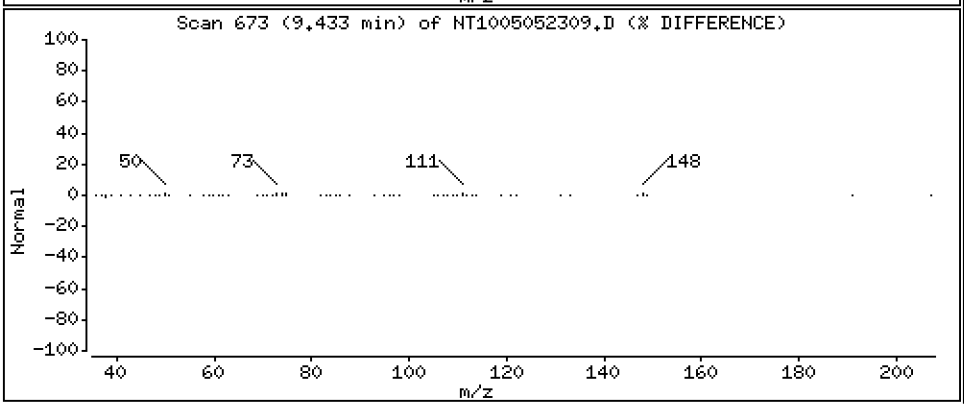












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

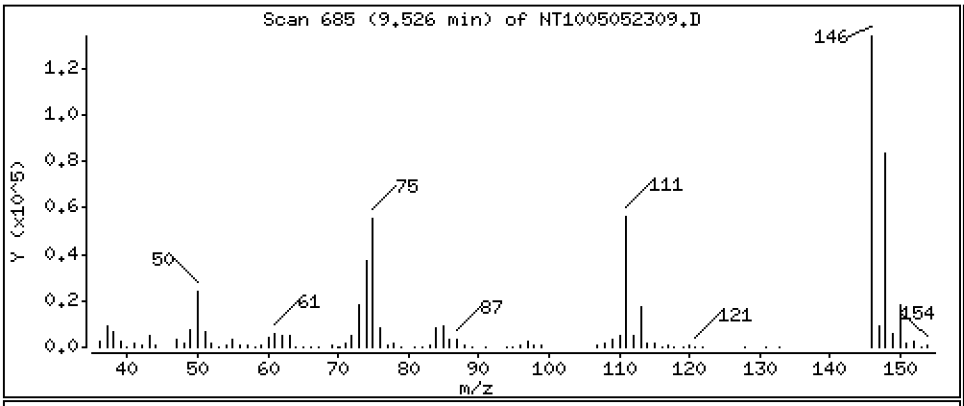
Operator: VTS

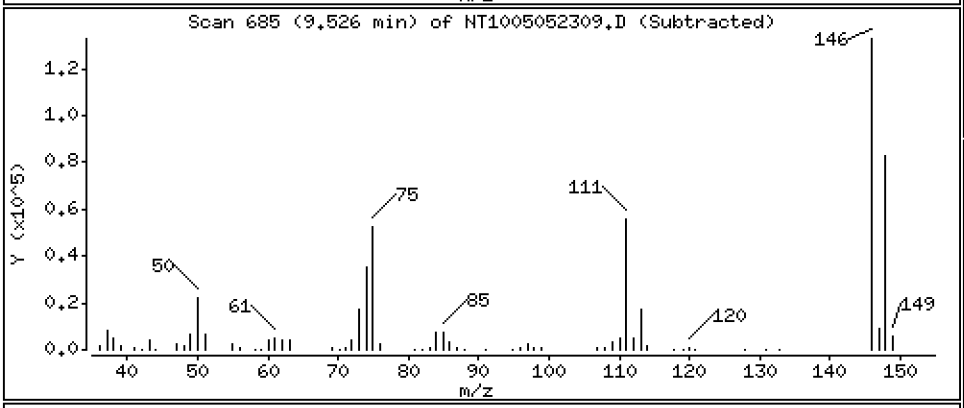
Column phase: ZB-5msi

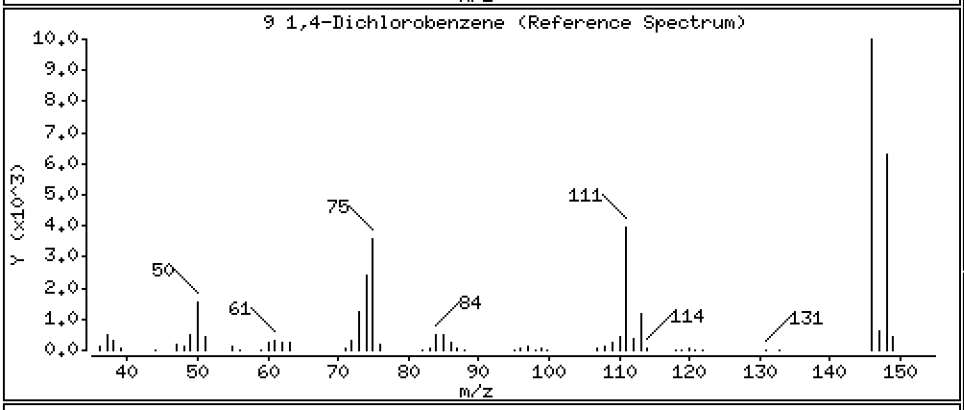
Column diameter: 0.25

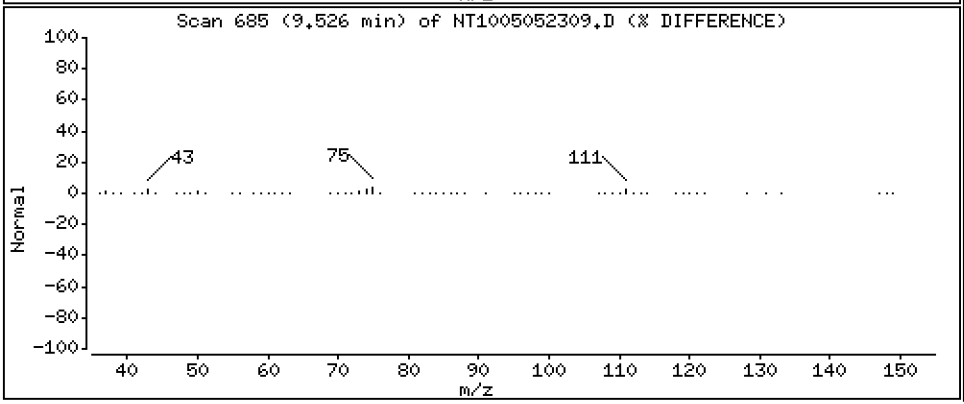
9 1,4-Dichlorobenzene

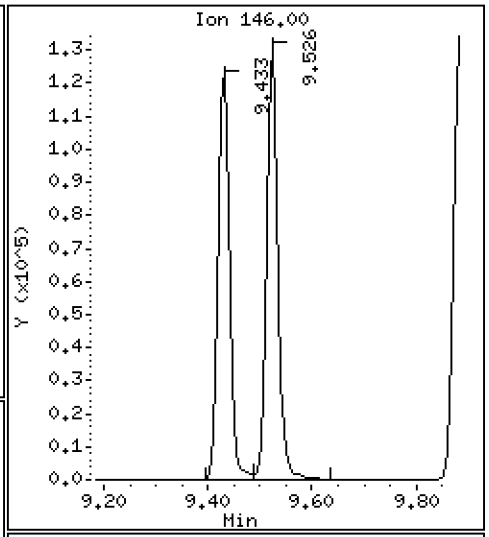
Concentration: 3.341 ug/mL

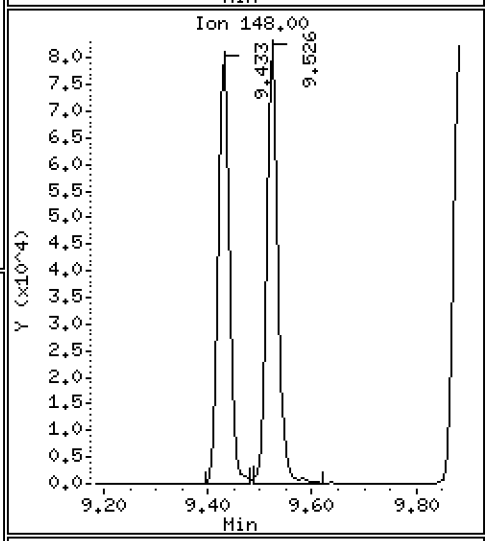


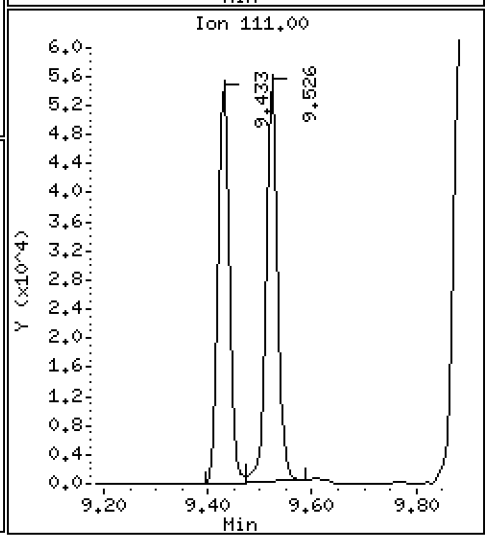












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

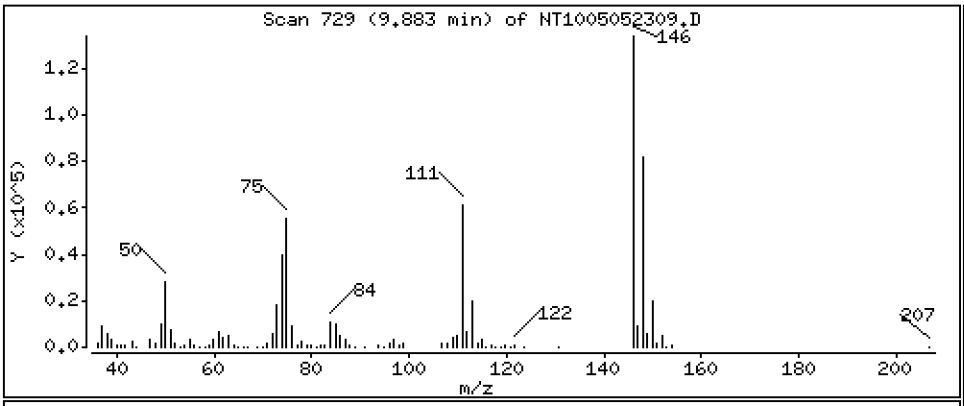
Operator: VTS

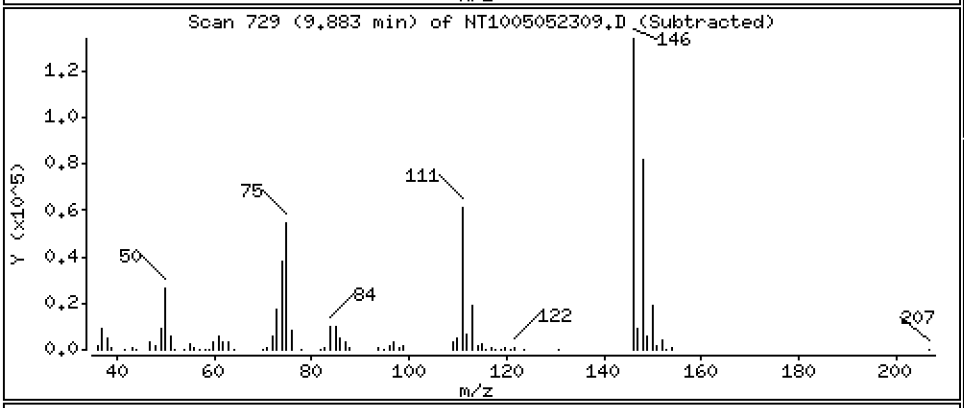
Column phase: ZB-5msi

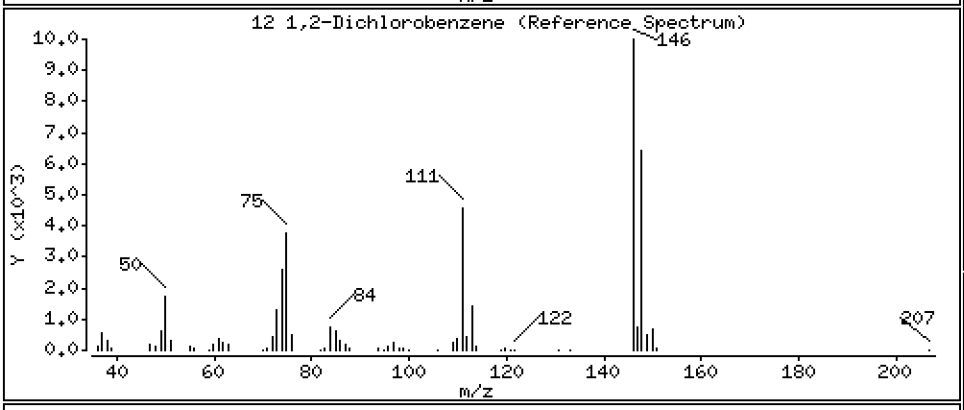
Column diameter: 0.25

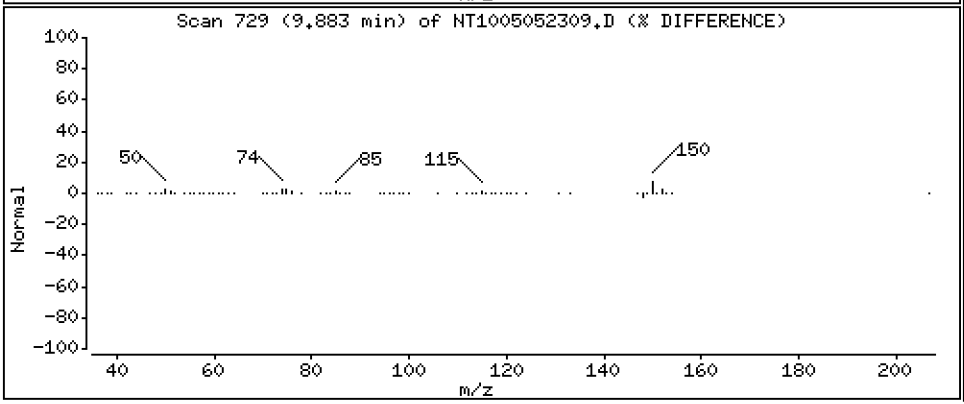
12 1,2-Dichlorobenzene

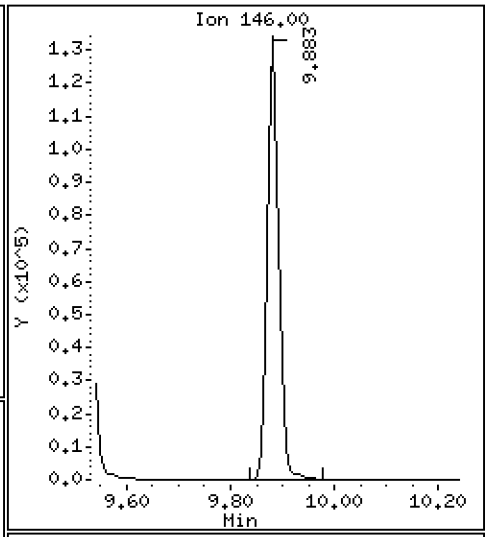
Concentration: 3.402 ug/mL

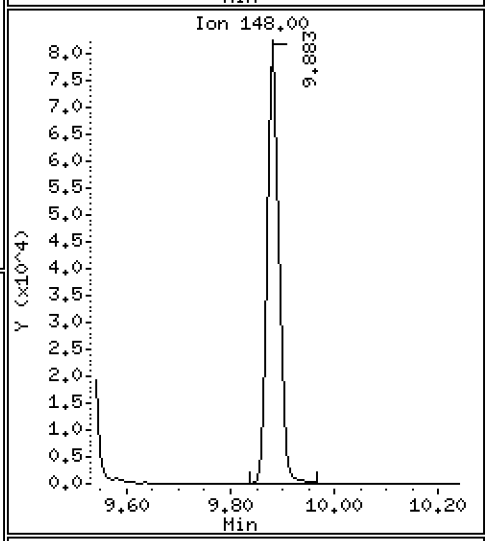


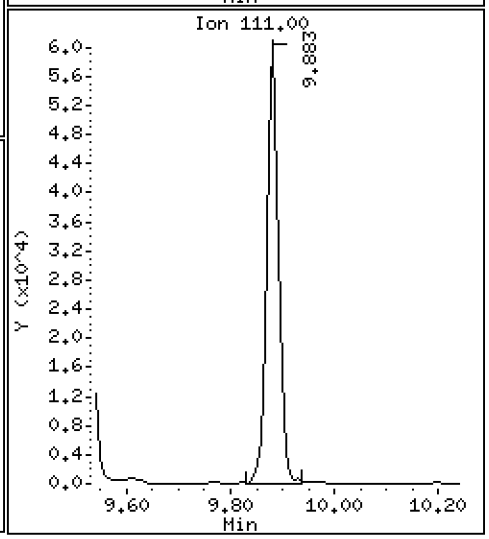












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

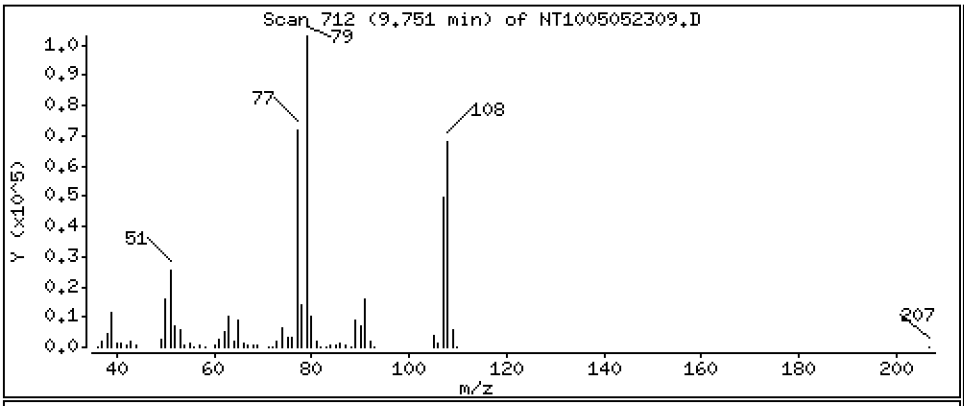
Operator: VTS

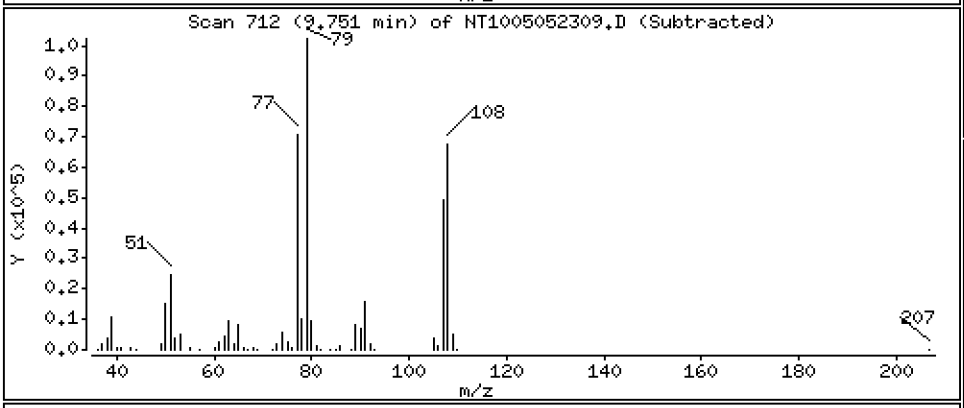
Column phase: ZB-5msi

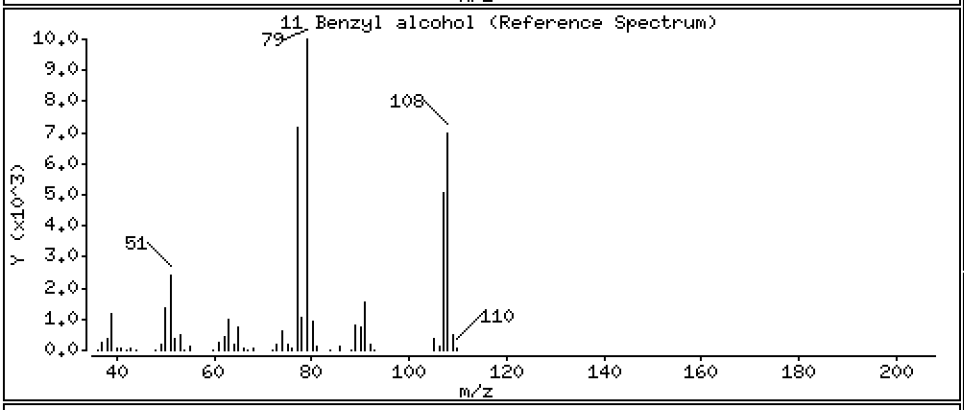
Column diameter: 0.25

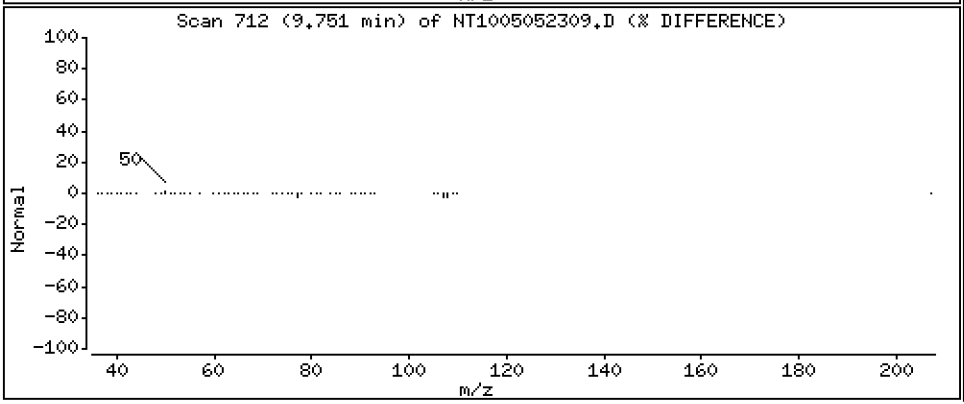
11 Benzyl alcohol

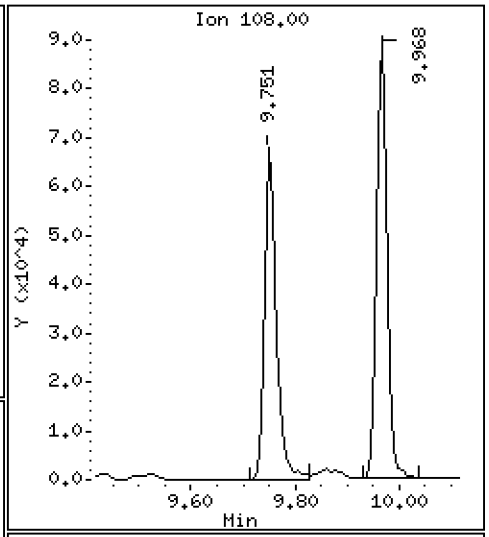
Concentration: 3.615 ug/mL

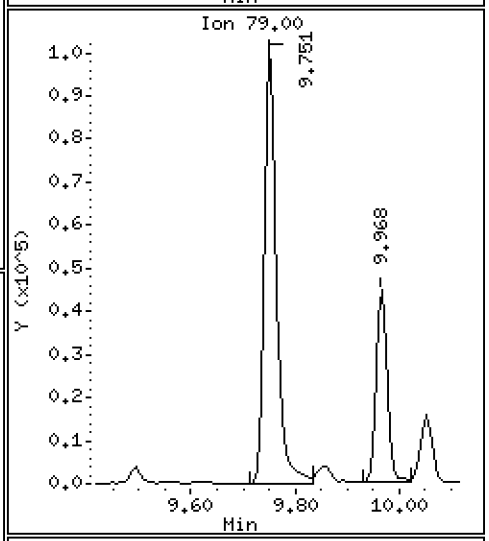


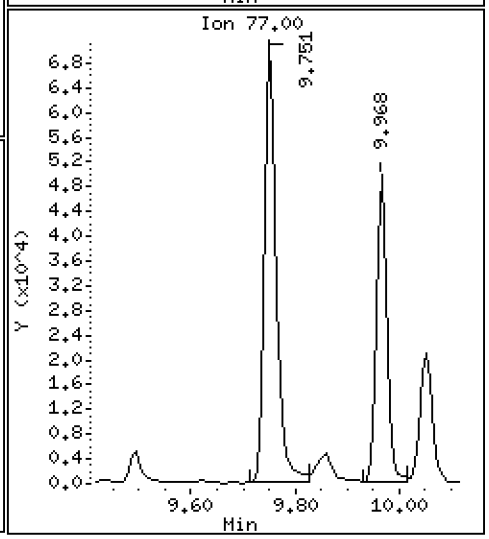












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

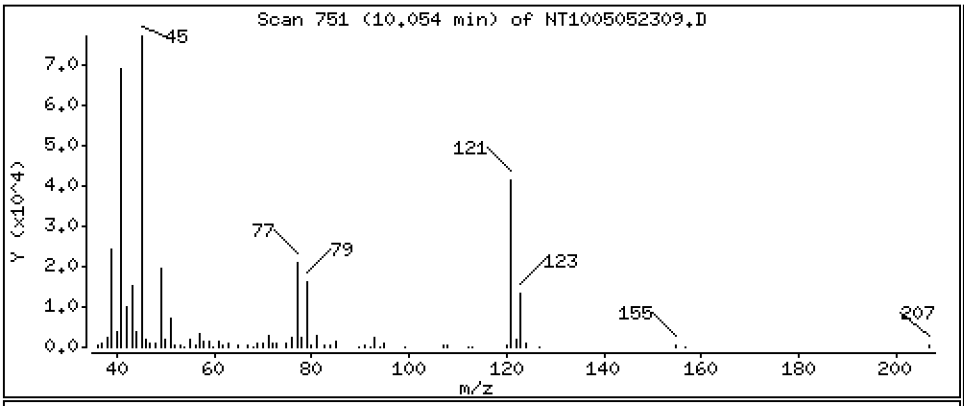
Operator: VTS

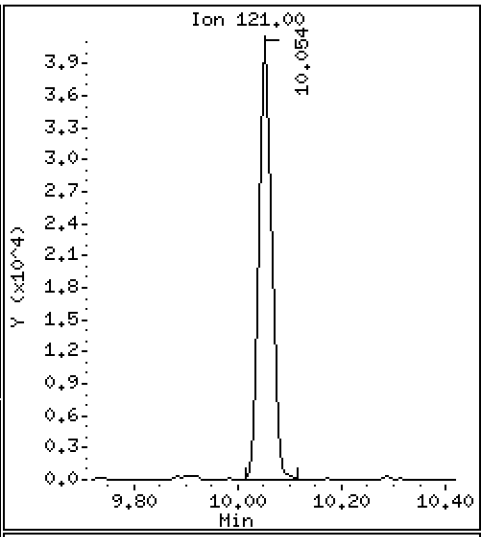
Column phase: ZB-5msi

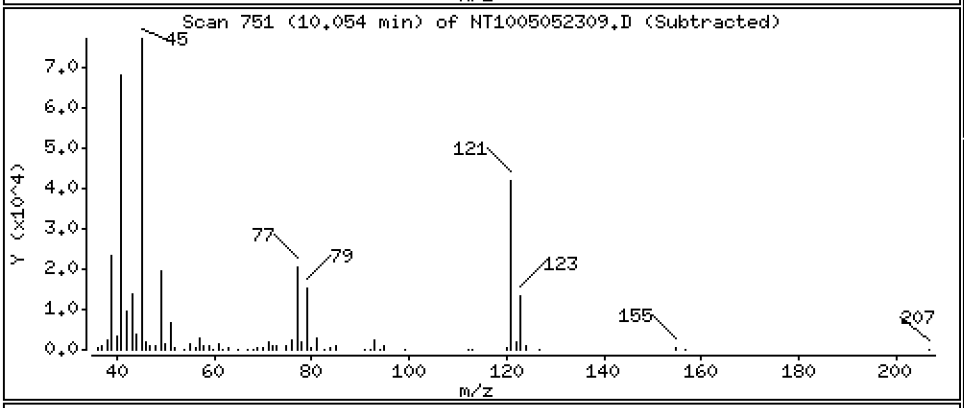
Column diameter: 0.25

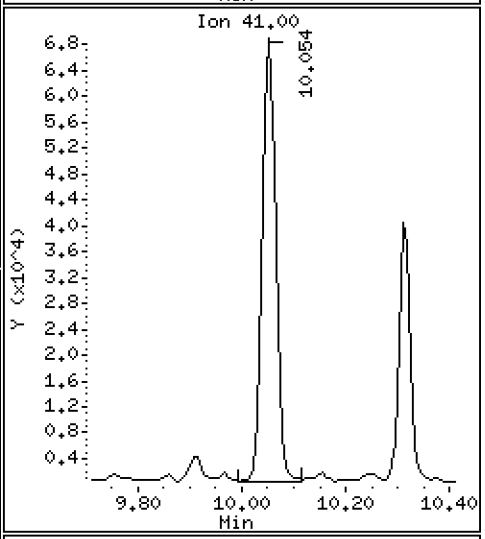
14 2,2'-oxybis(1-Chloropropane)

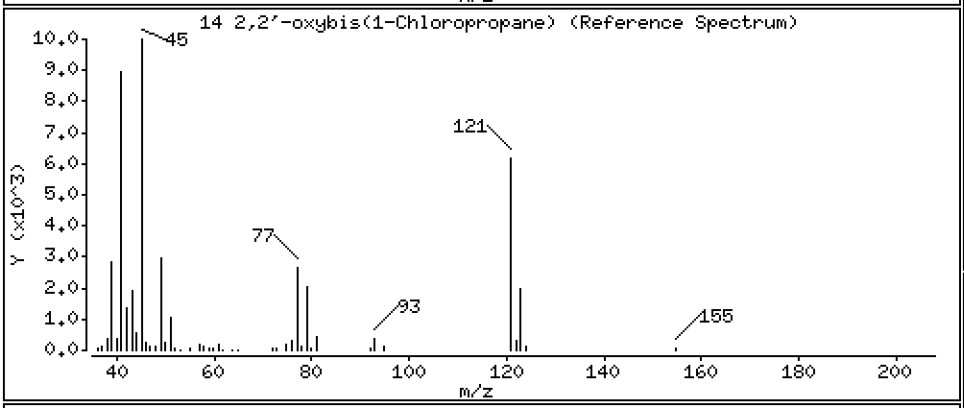
Concentration: 4.078 ug/mL

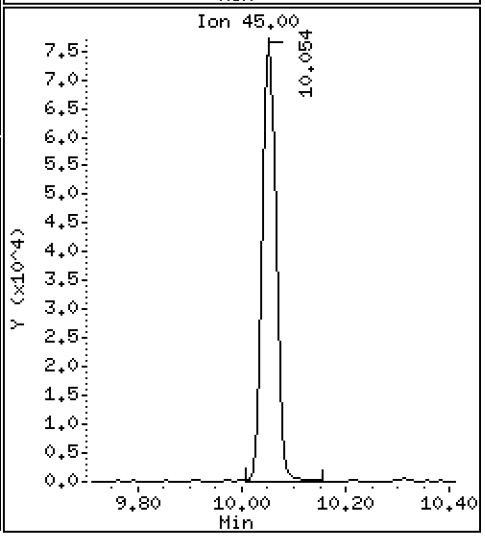


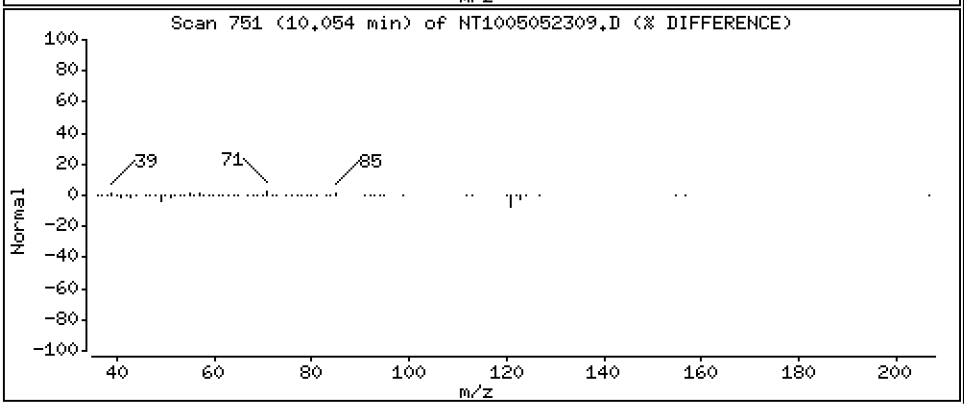












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

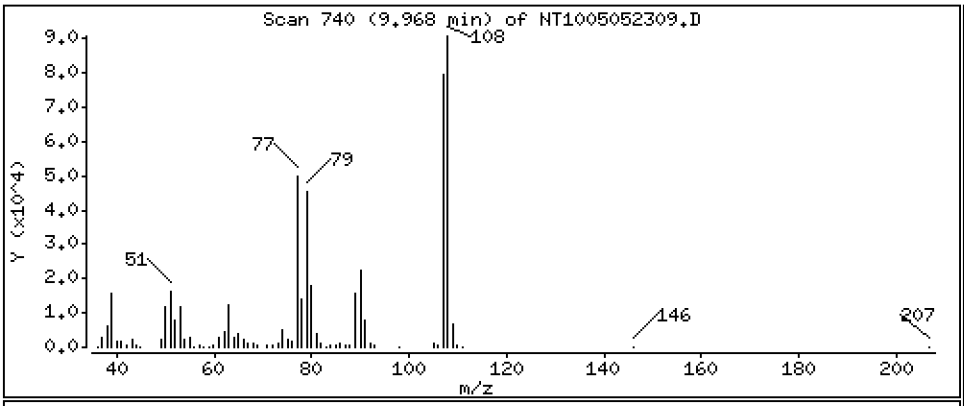
Operator: VTS

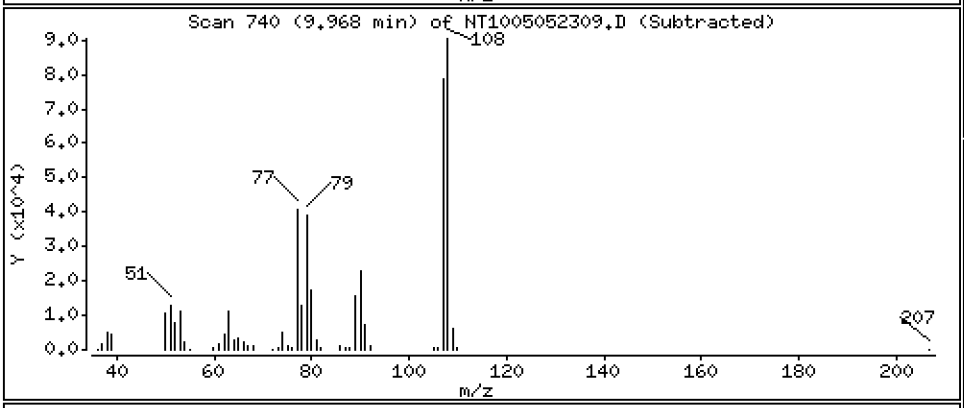
Column phase: ZB-5msi

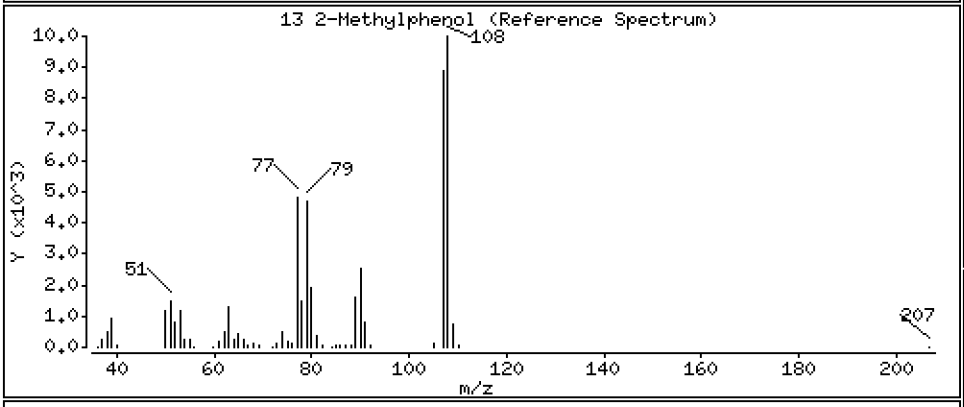
Column diameter: 0.25

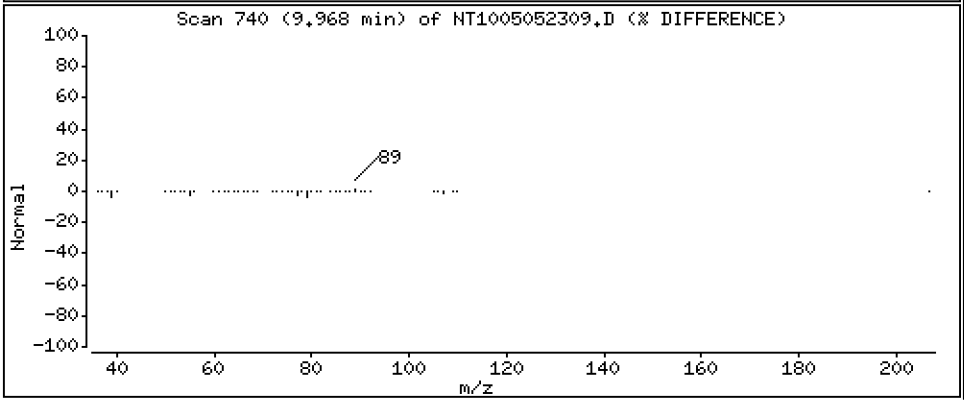
13 2-Methylphenol

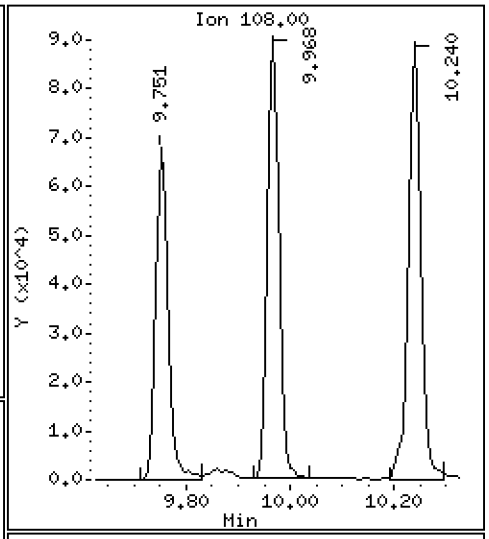
Concentration: 2.923 ug/mL

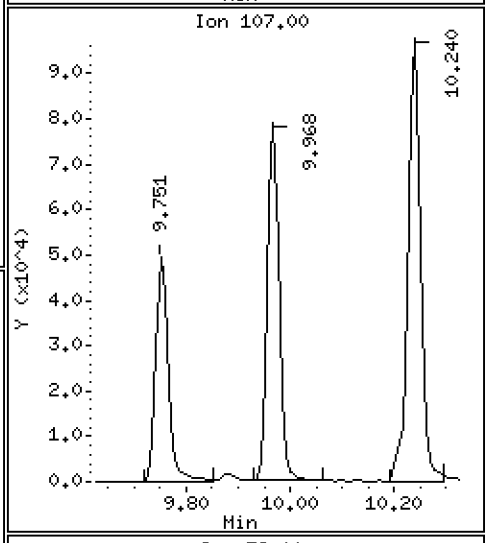


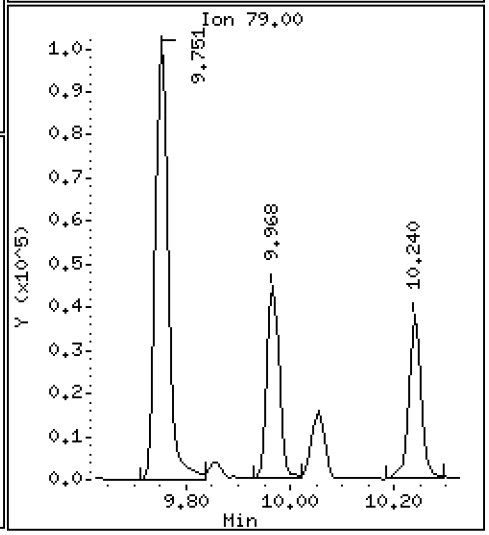












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

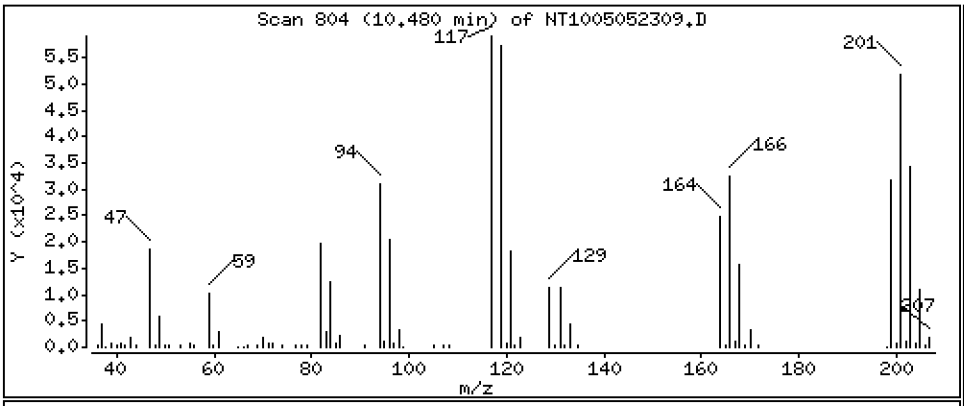
Operator: VTS

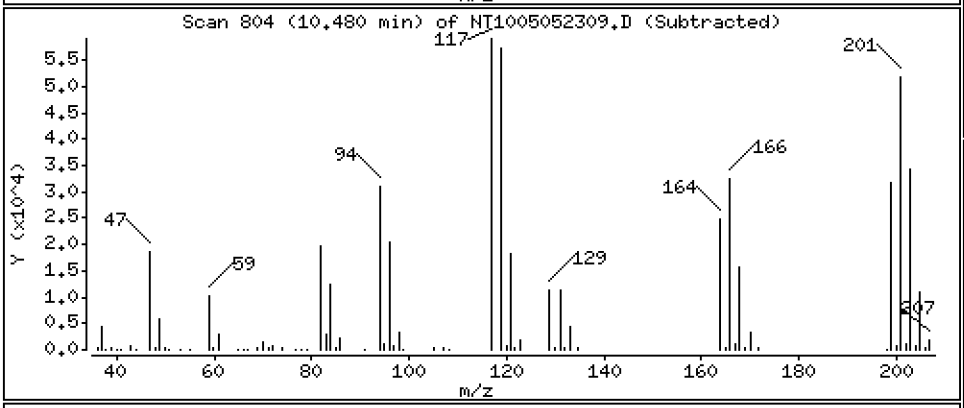
Column phase: ZB-5msi

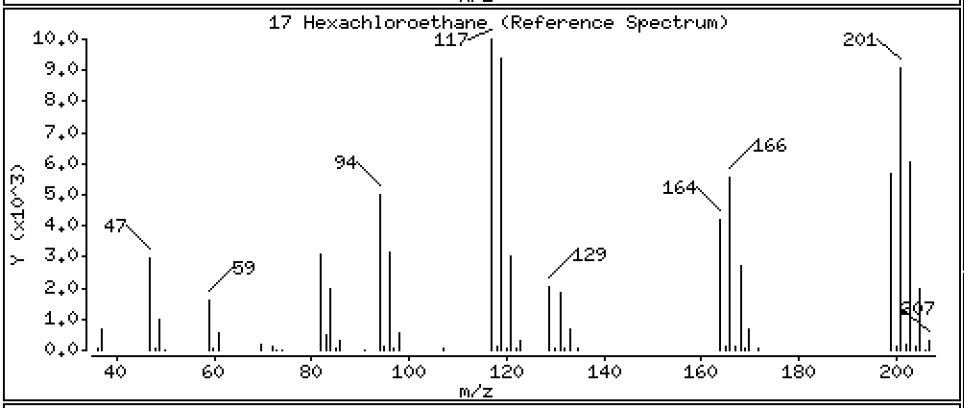
Column diameter: 0.25

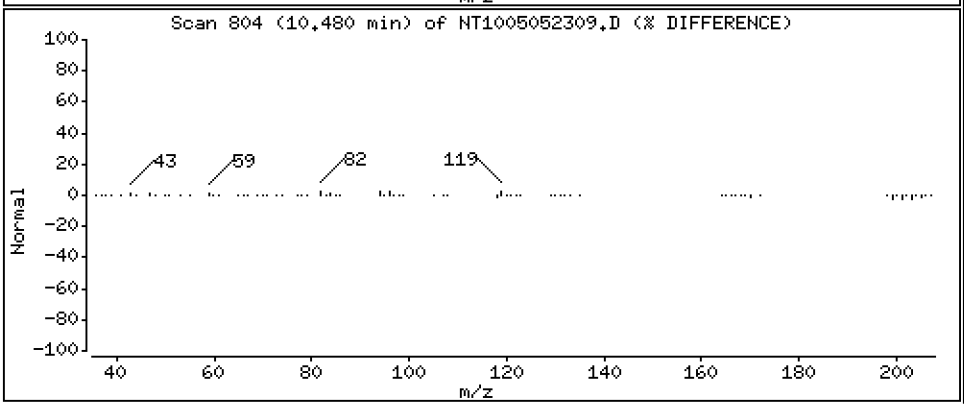
17 Hexachloroethane

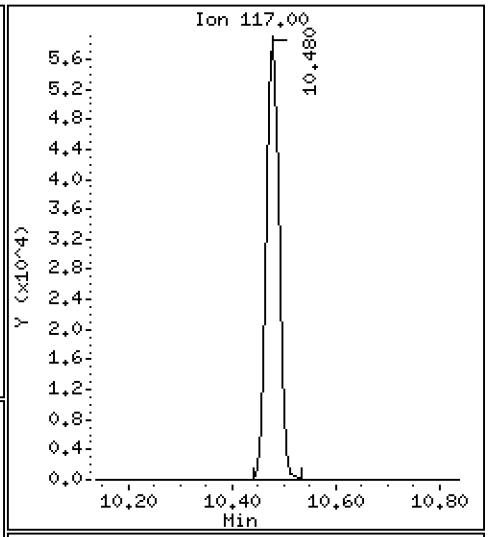
Concentration: 3.649 ug/mL

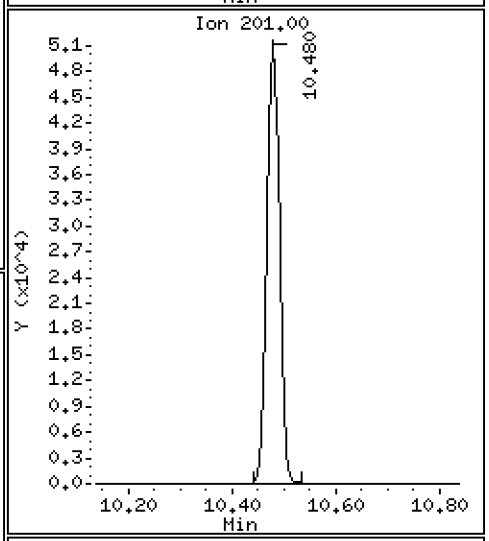


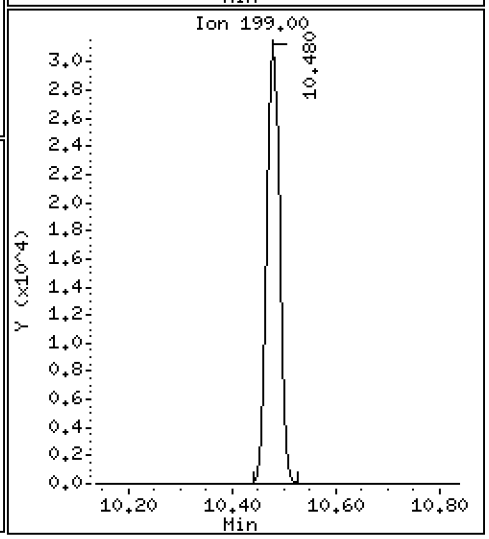












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

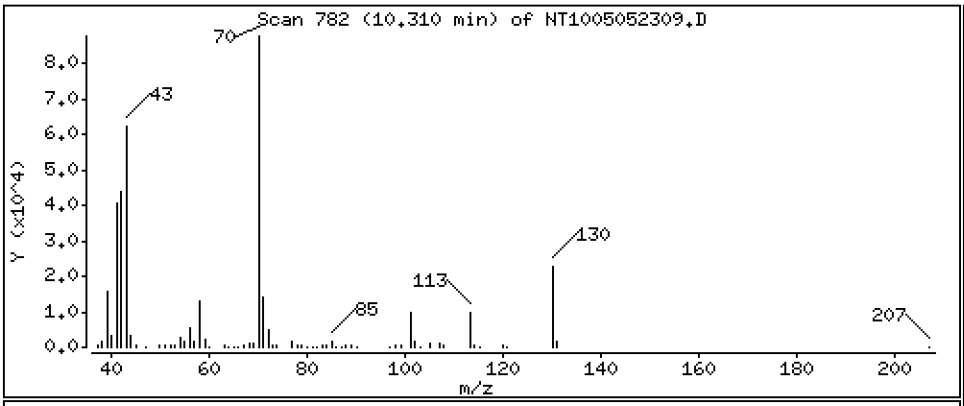
Operator: VTS

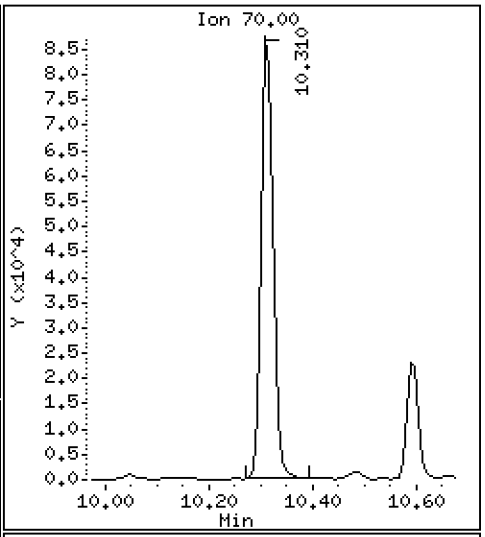
Column phase: ZB-5msi

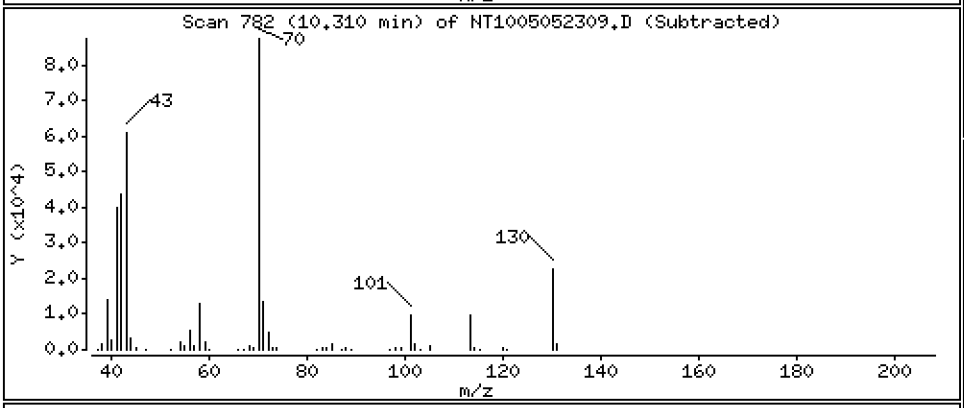
Column diameter: 0.25

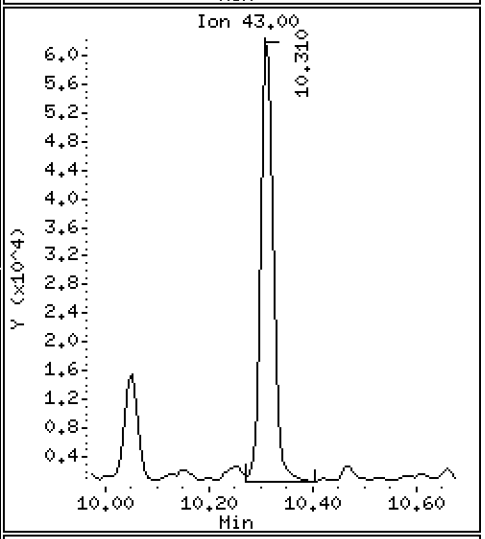
16 N-Nitroso-di-n-propylamine

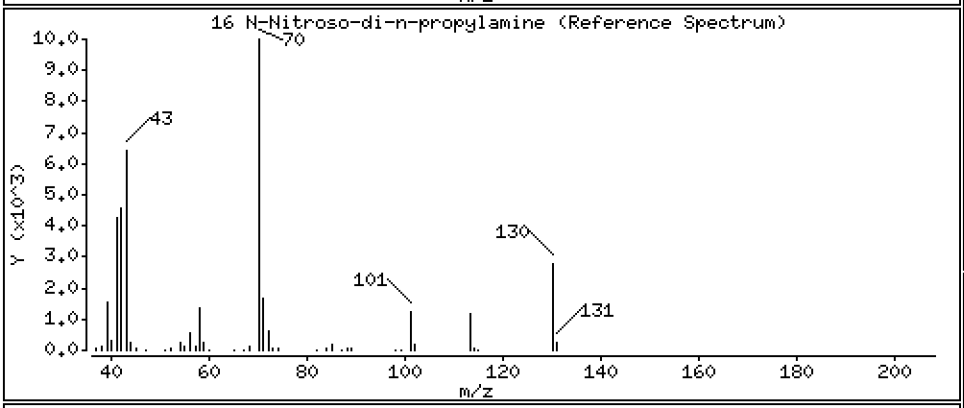
Concentration: 3.717 ug/mL

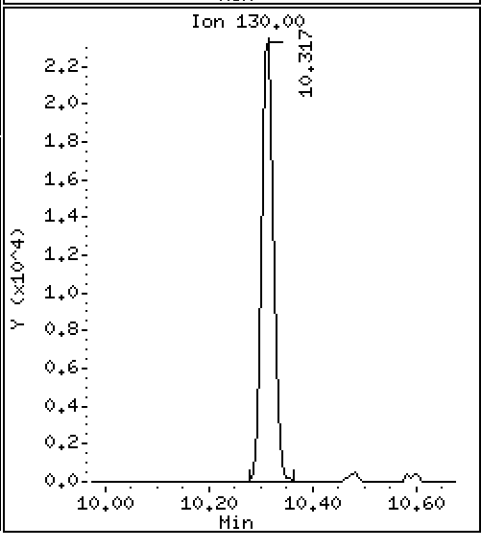


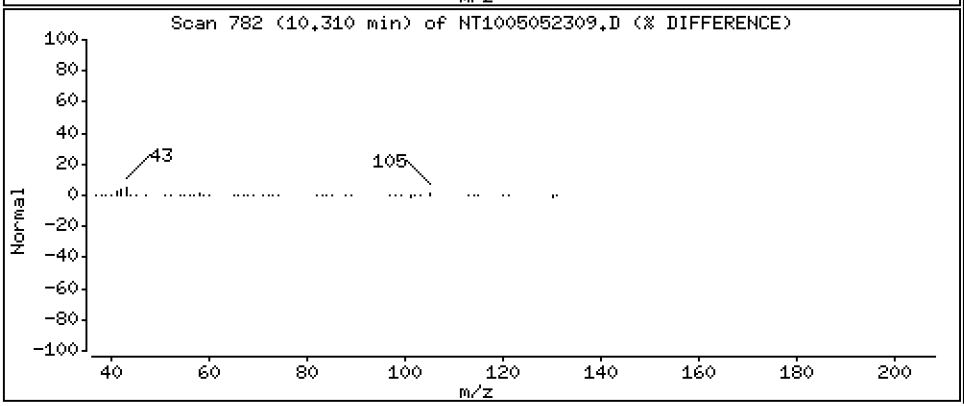












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

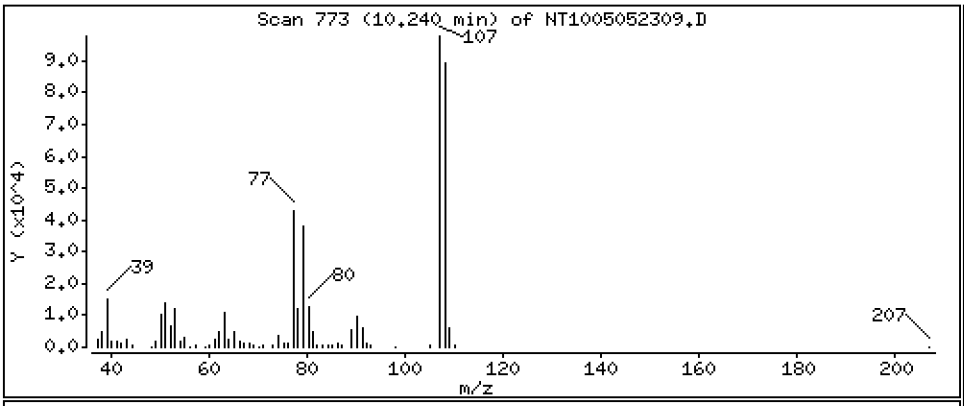
Operator: VTS

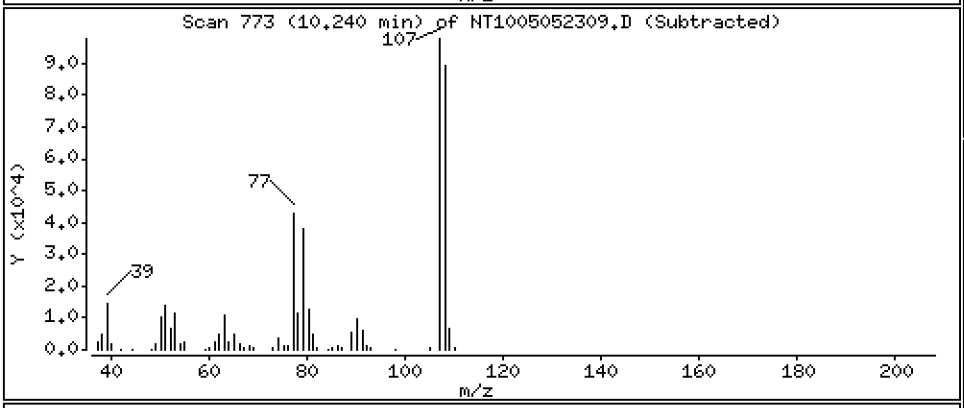
Column phase: ZB-5msi

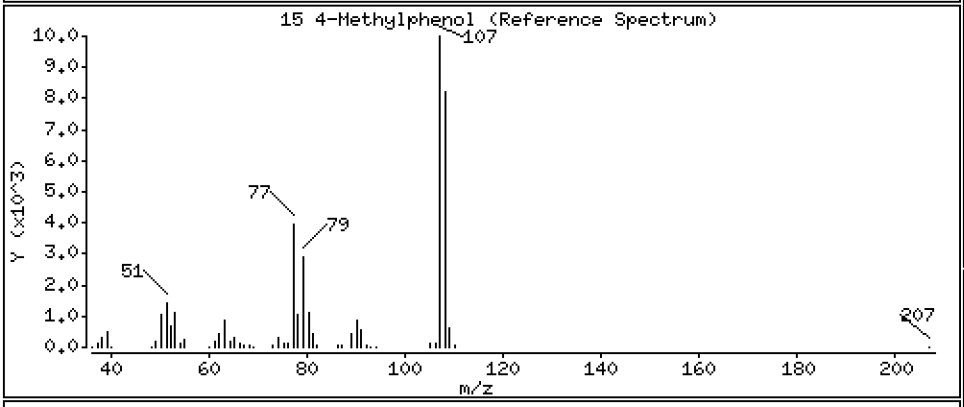
Column diameter: 0.25

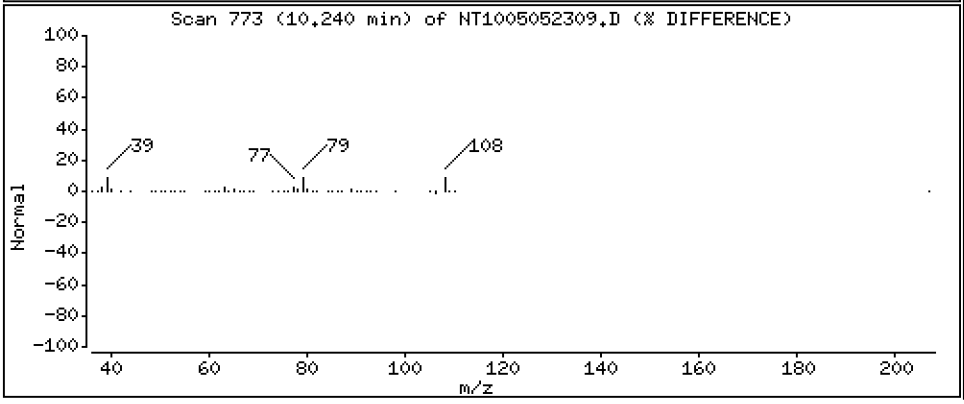
15 4-Methylphenol

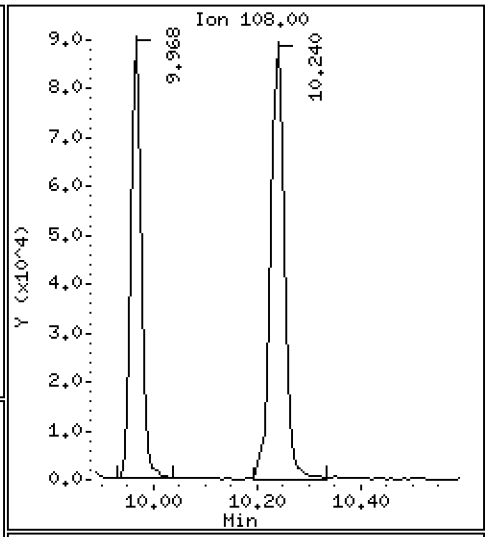
Concentration: 3.142 ug/mL

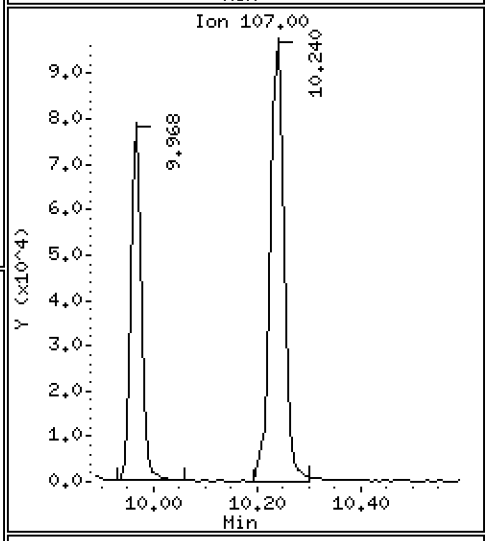


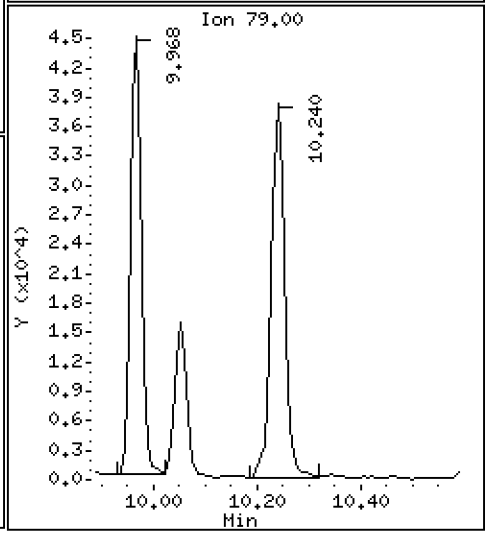












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

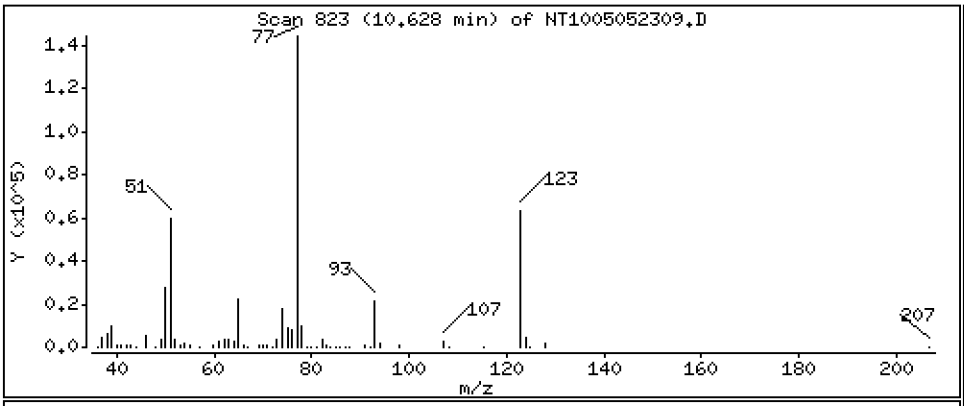
Operator: VTS

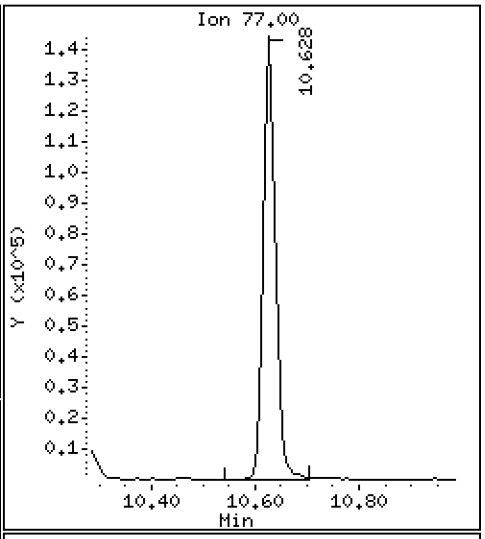
Column phase: ZB-5msi

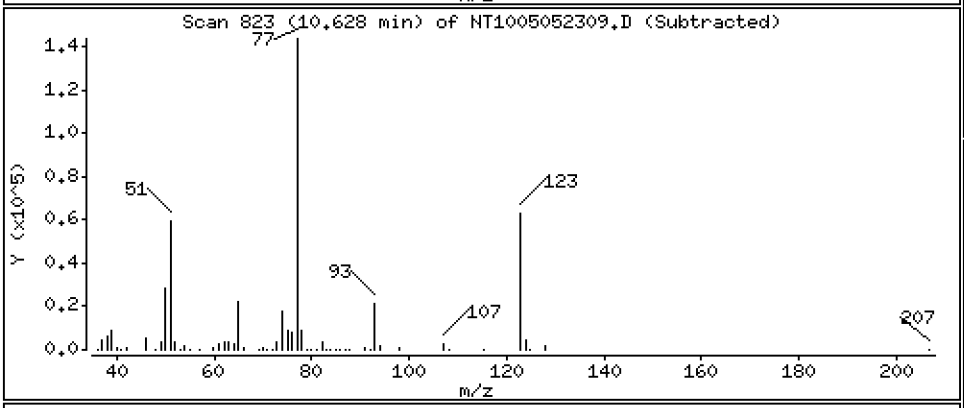
Column diameter: 0.25

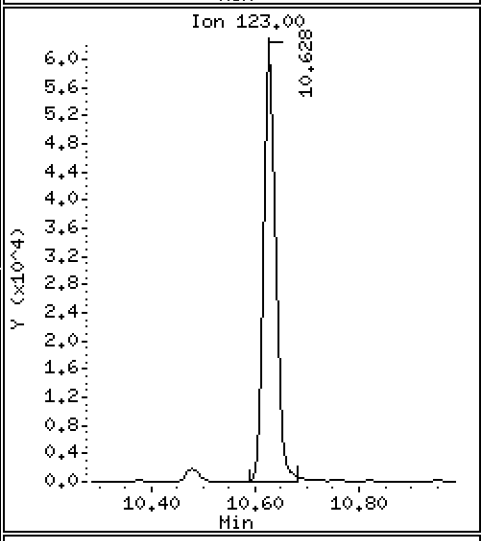
19 Nitrobenzene

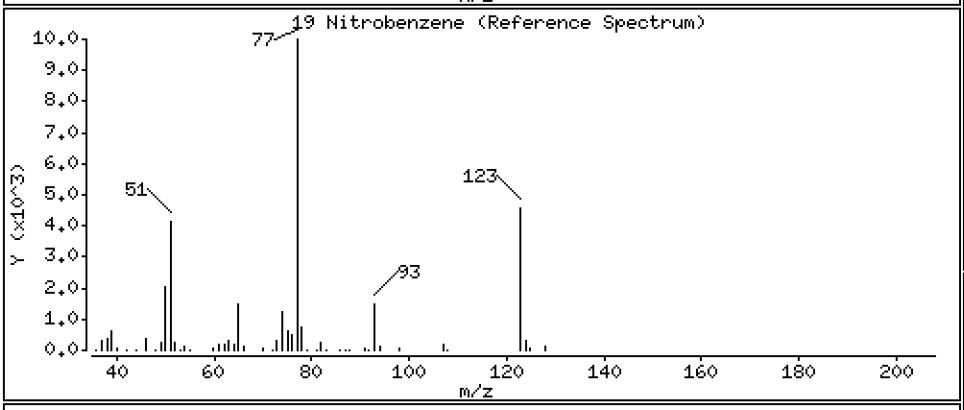
Concentration: 3.624 ug/mL

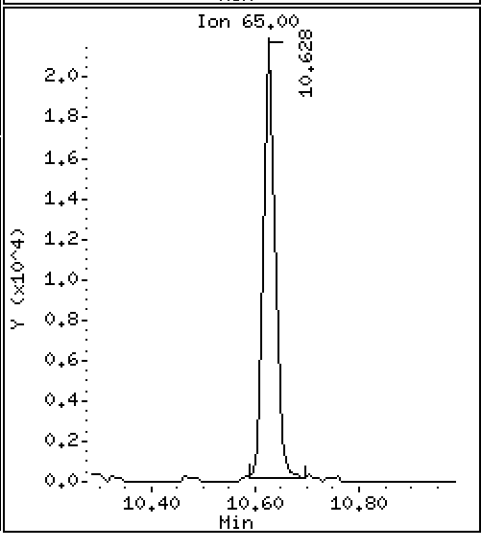


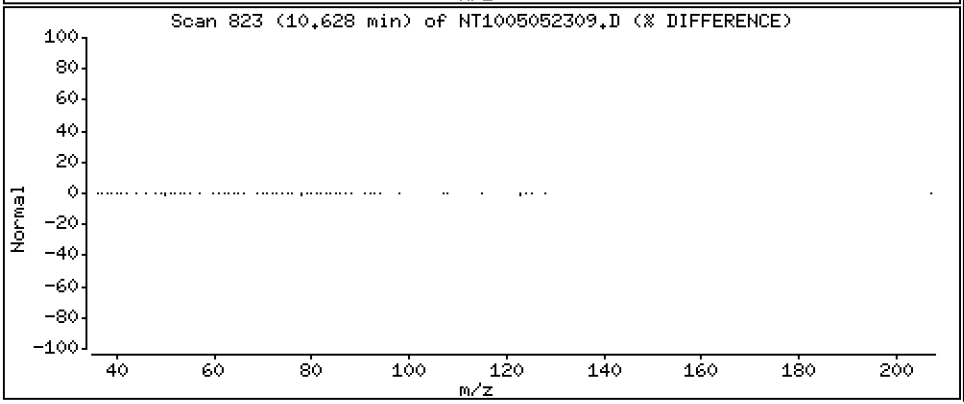












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

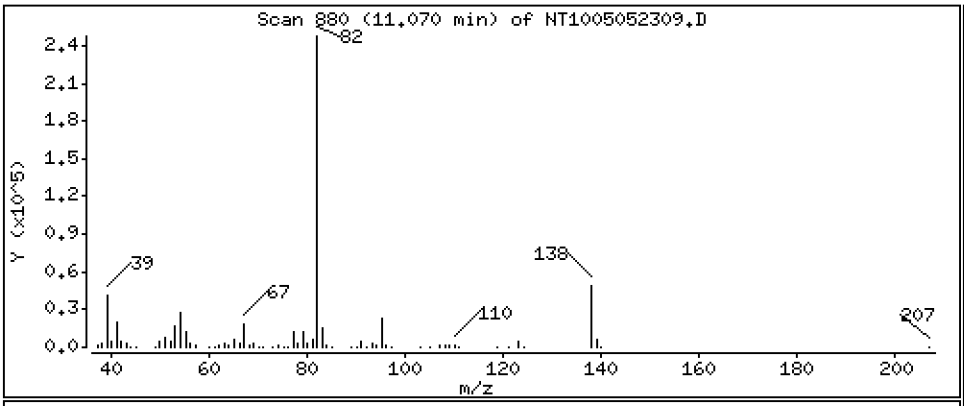
Operator: VTS

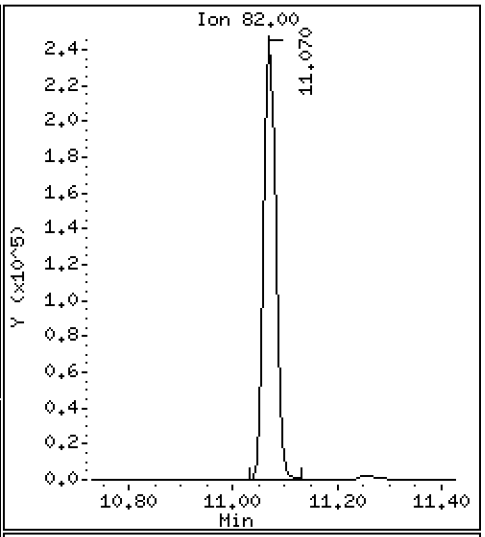
Column phase: ZB-5msi

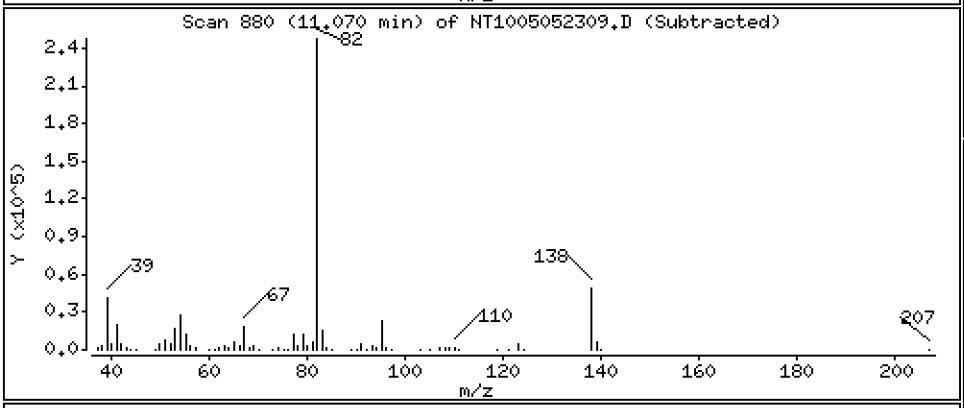
Column diameter: 0.25

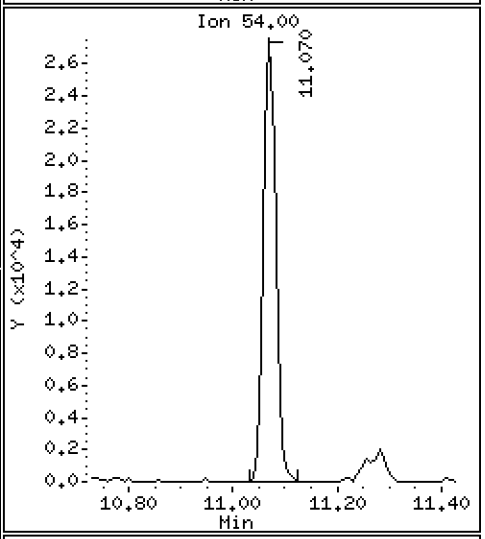
20 Isophorone

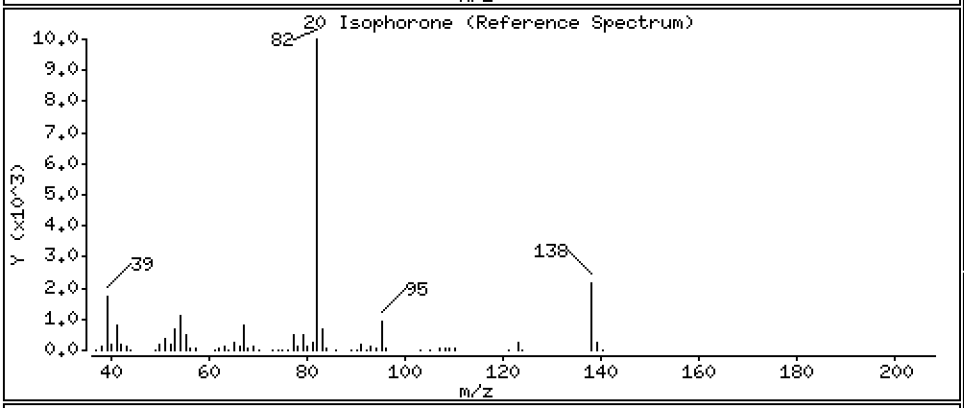
Concentration: 4.972 ug/mL

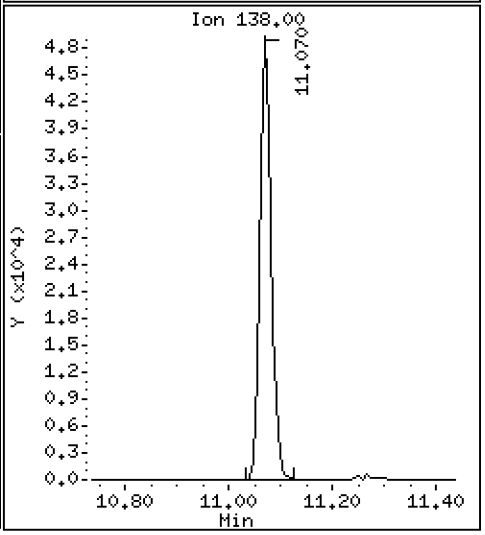


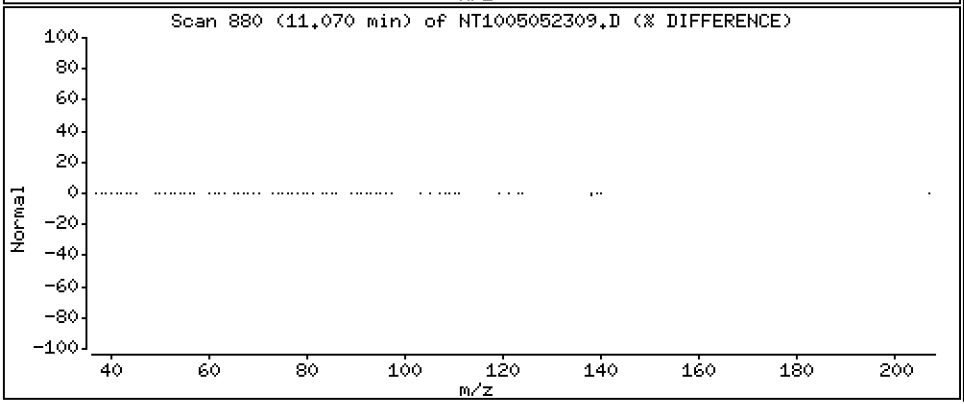












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

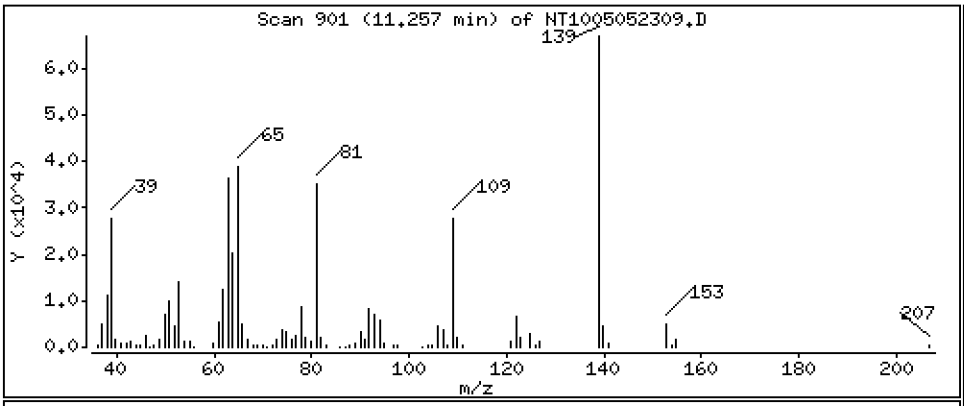
Operator: VTS

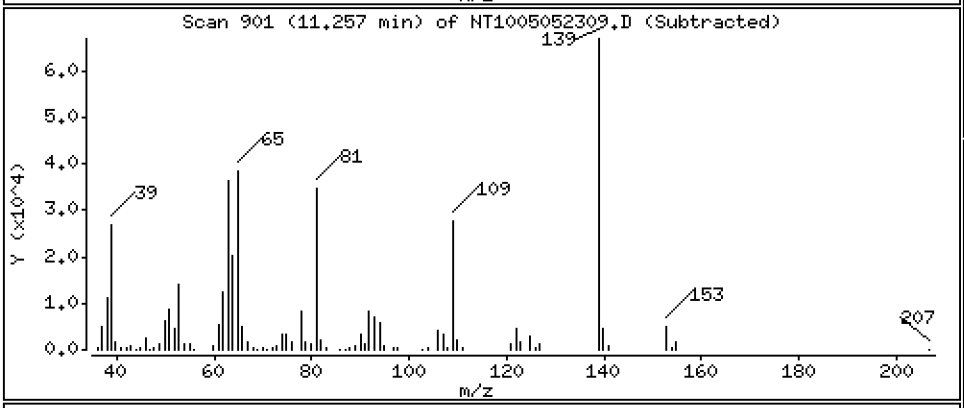
Column phase: ZB-5msi

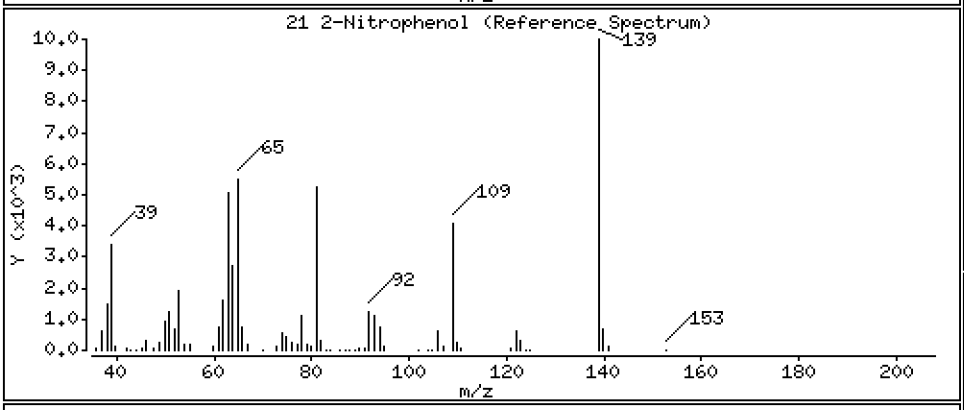
Column diameter: 0.25

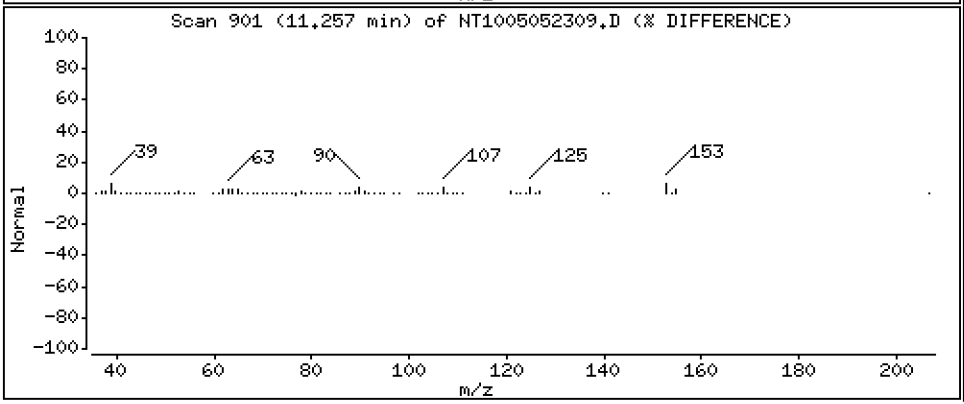
21 2-Nitrophenol

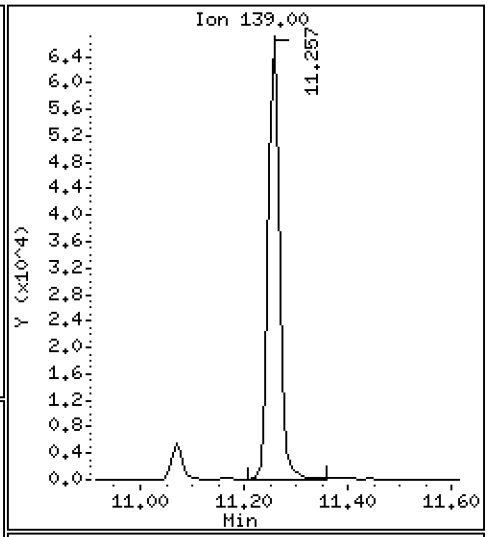
Concentration: 3.059 ug/mL

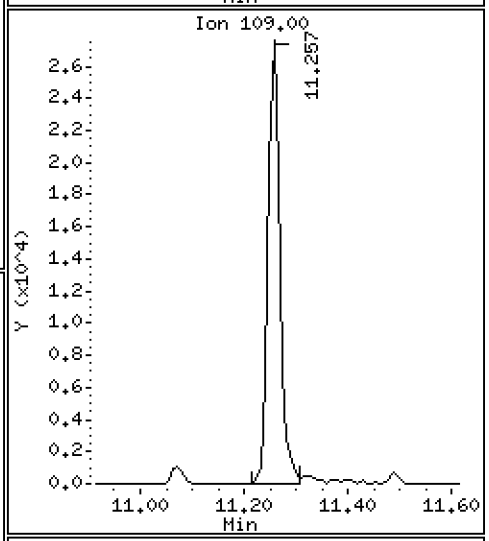


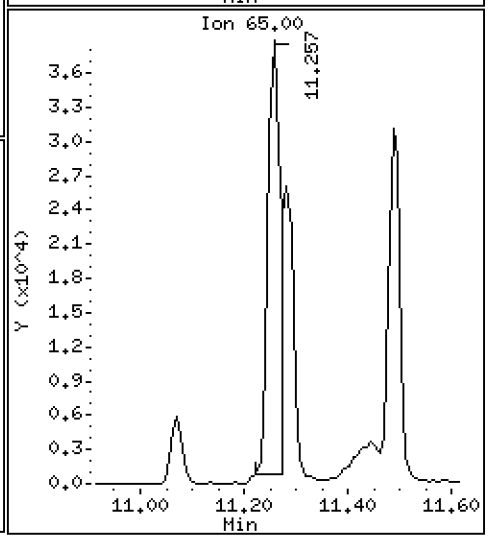












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

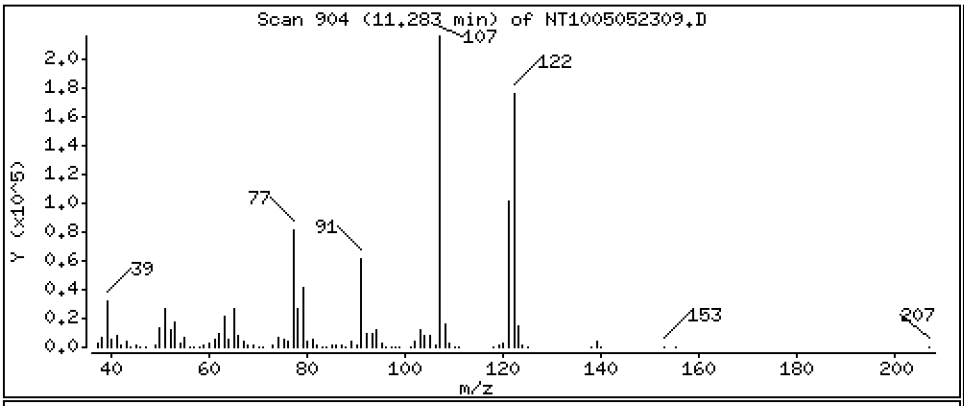
Operator: VTS

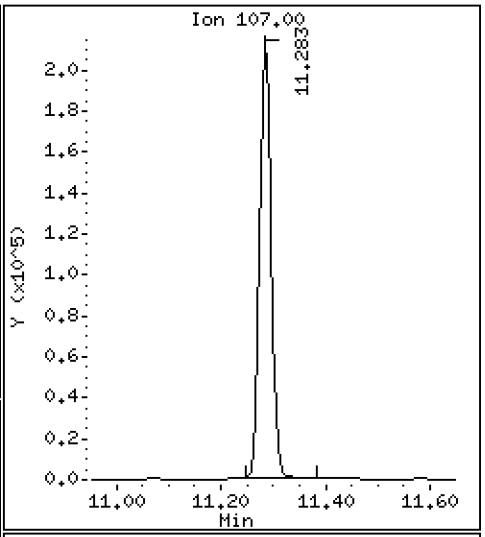
Column phase: ZB-5msi

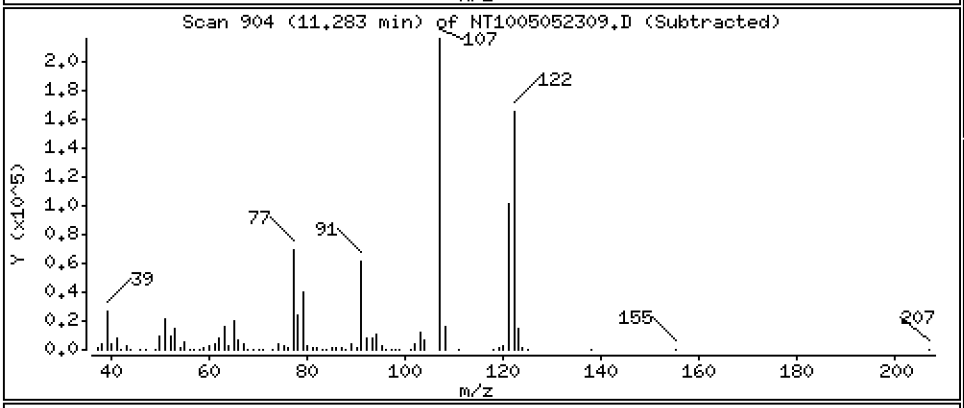
Column diameter: 0.25

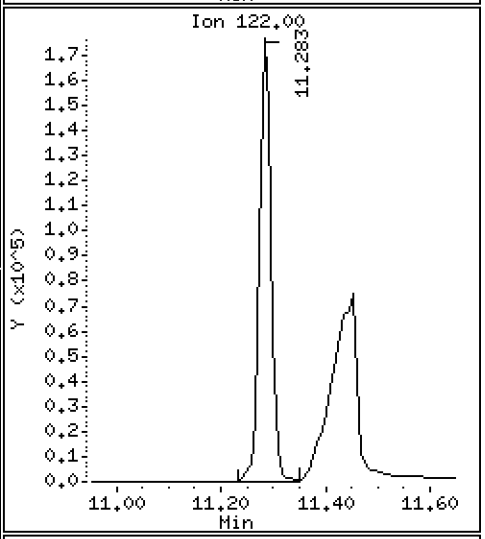
22 2,4-Dimethylphenol

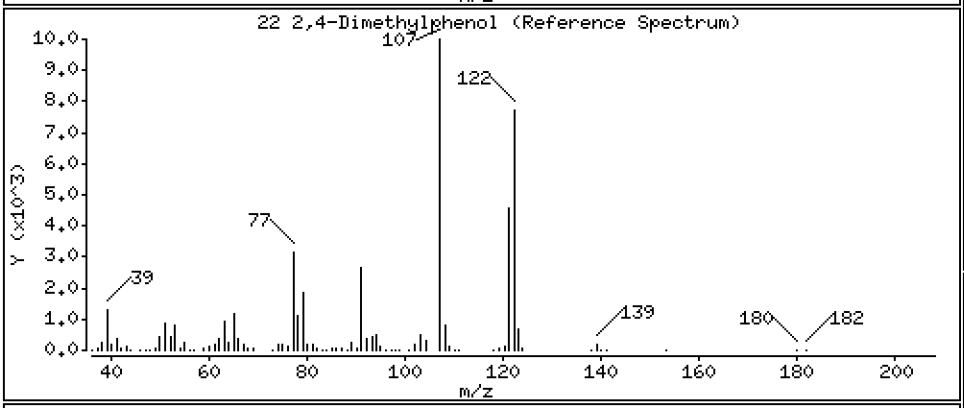
Concentration: 5.281 ug/mL

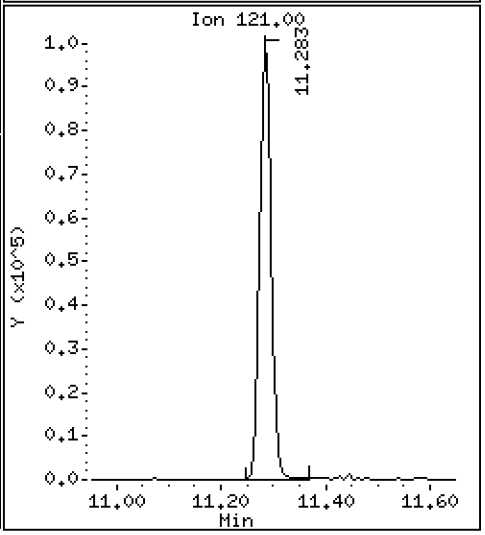


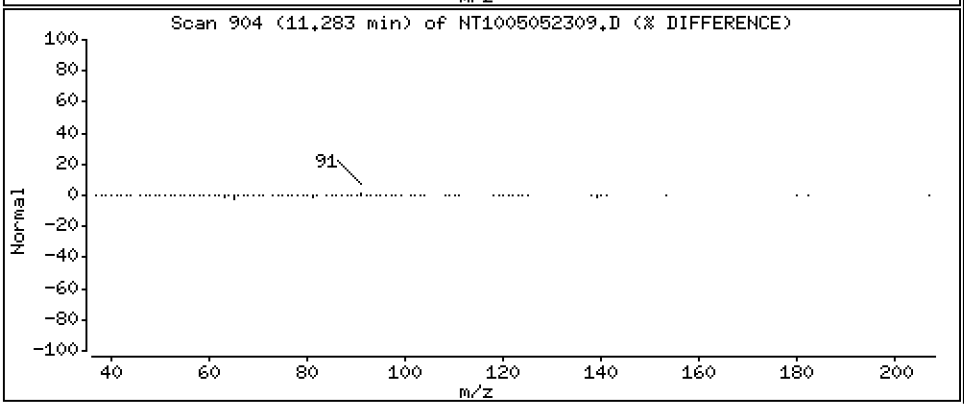












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

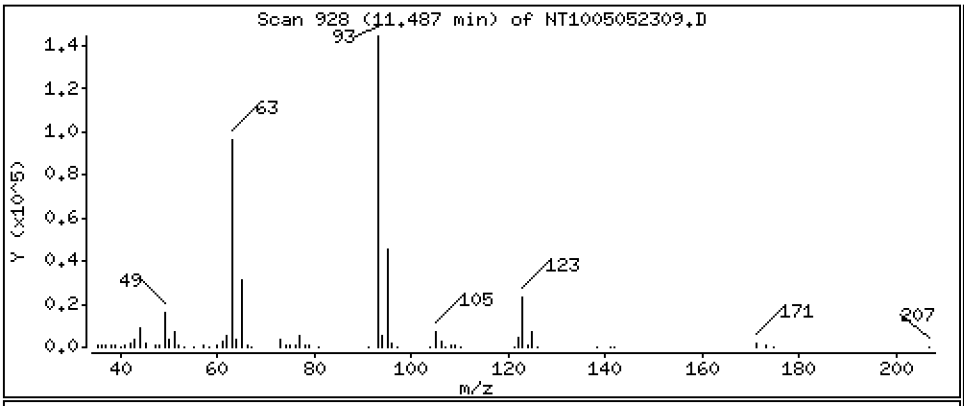
Operator: VTS

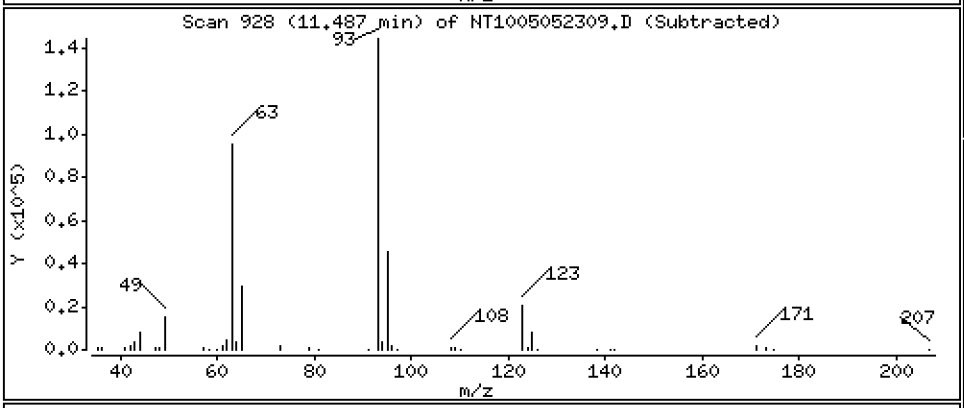
Column phase: ZB-5msi

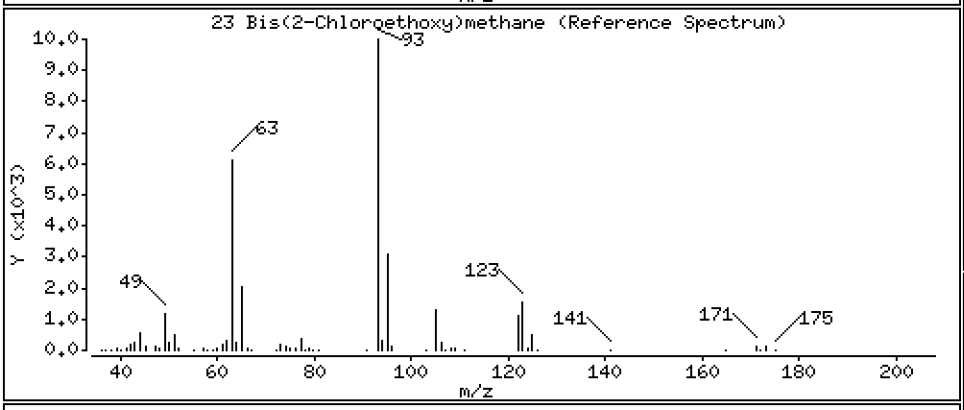
Column diameter: 0.25

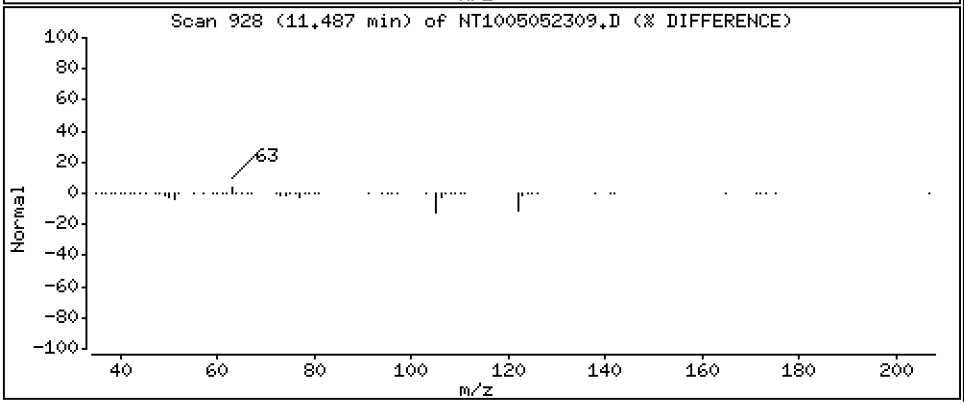
23 Bis(2-Chloroethoxy)methane

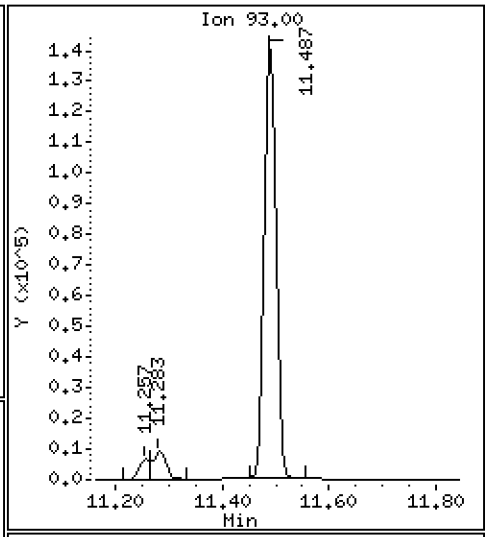
Concentration: 4.366 ug/mL

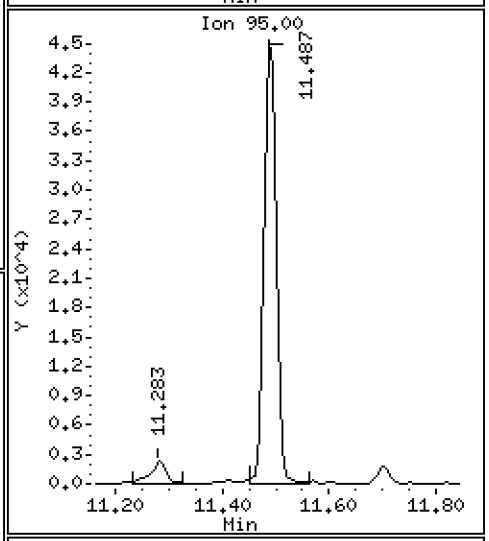


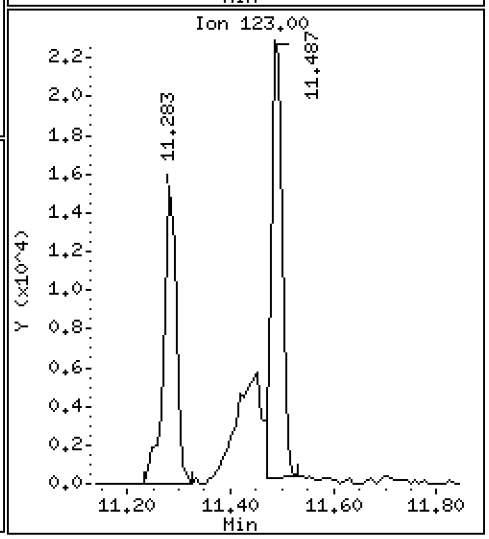












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

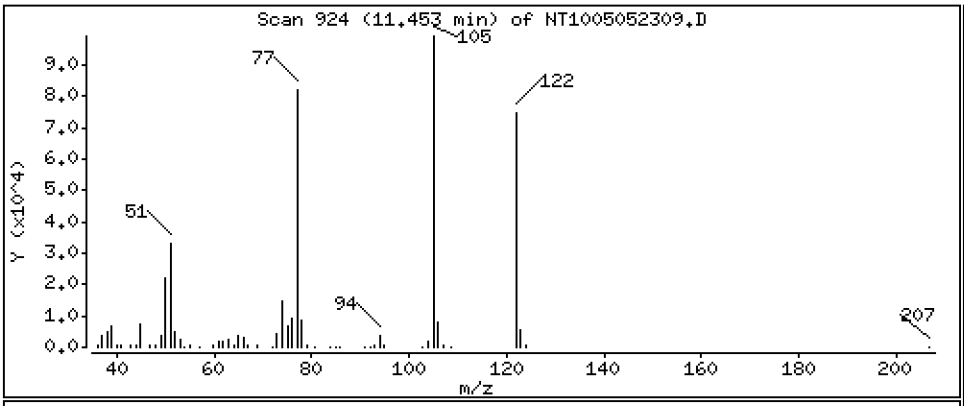
Operator: VTS

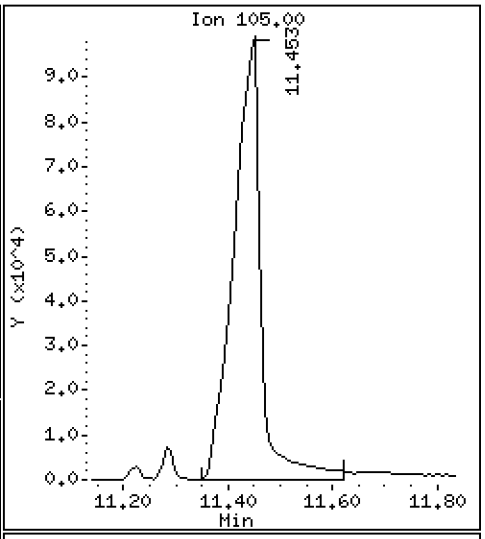
Column phase: ZB-5msi

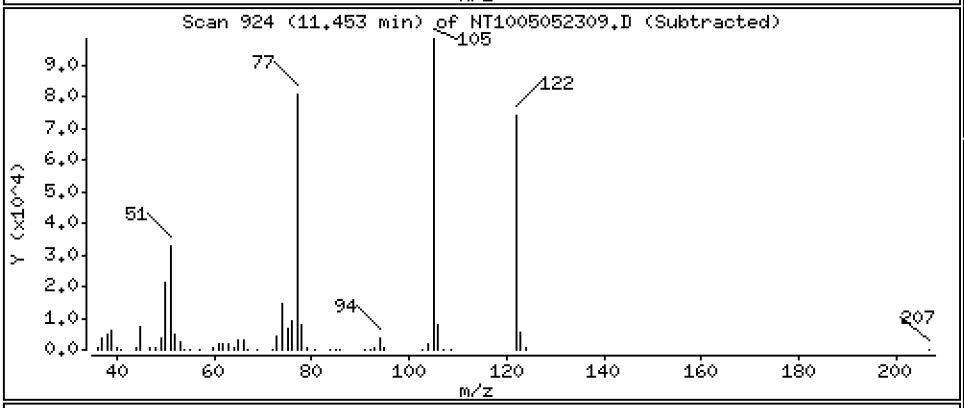
Column diameter: 0.25

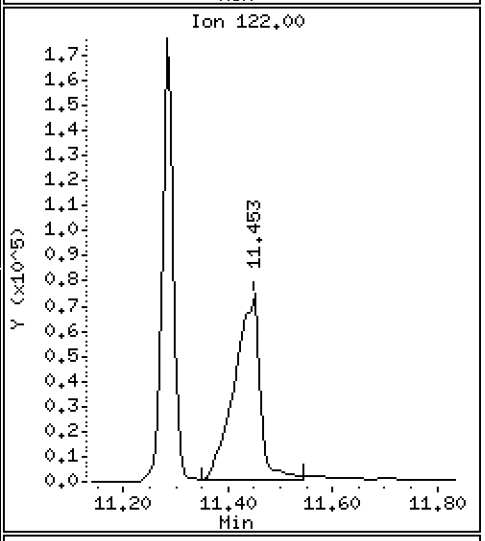
24 Benzoic acid

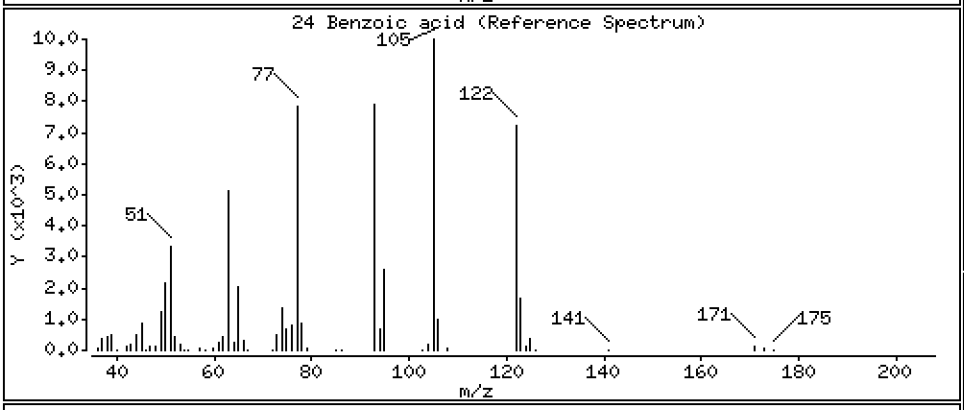
Concentration: 8.487 ug/mL

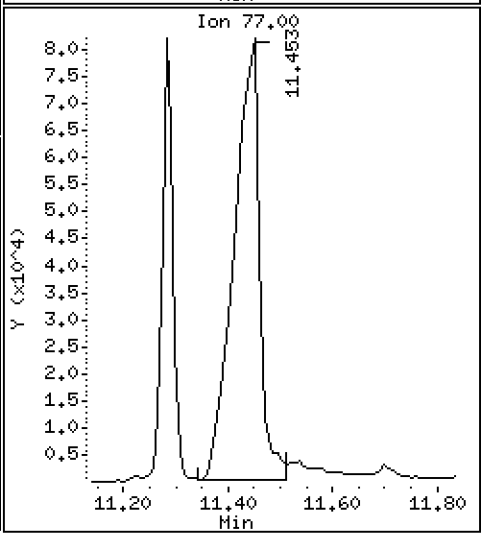


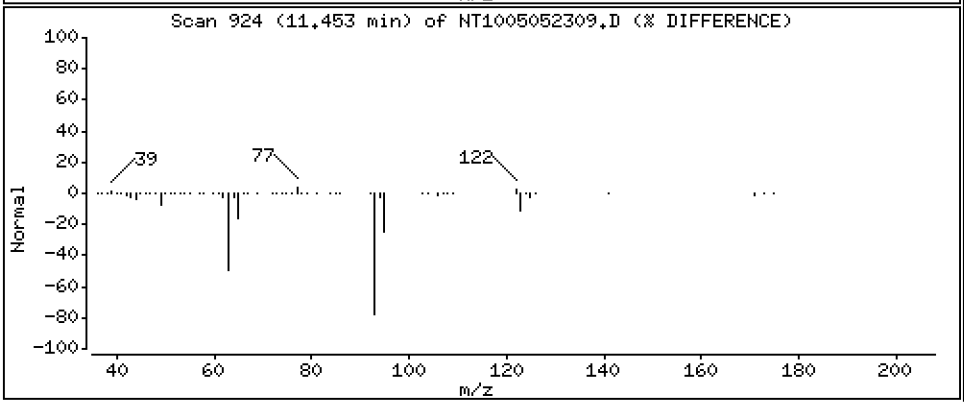












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

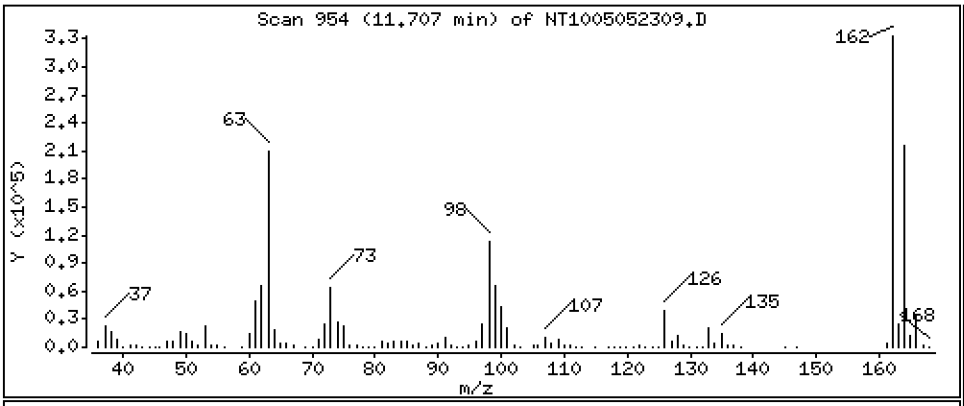
Operator: VTS

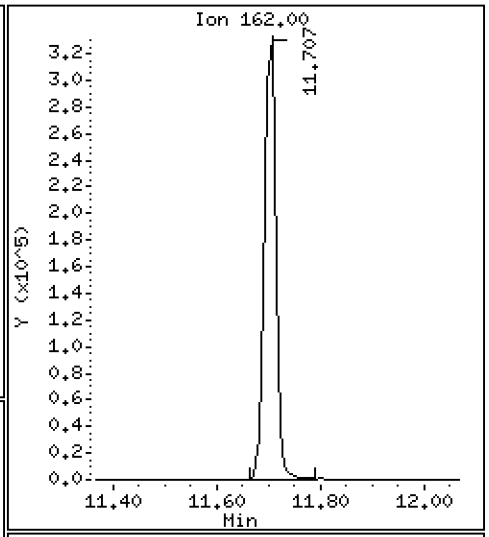
Column phase: ZB-5msi

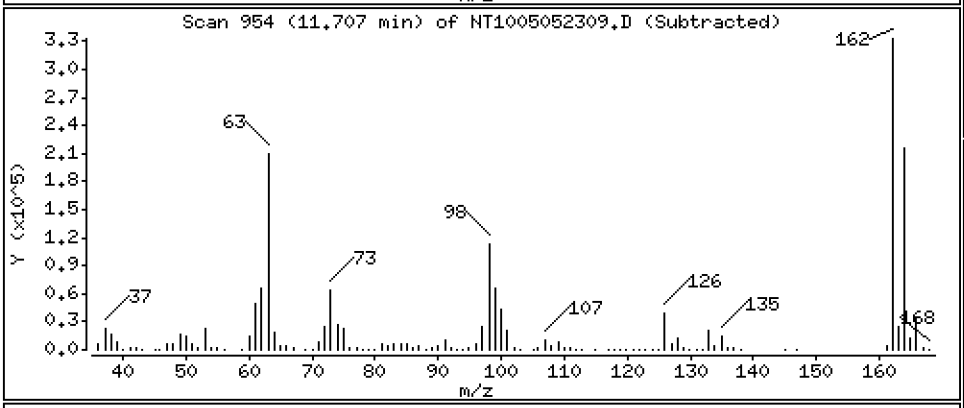
Column diameter: 0.25

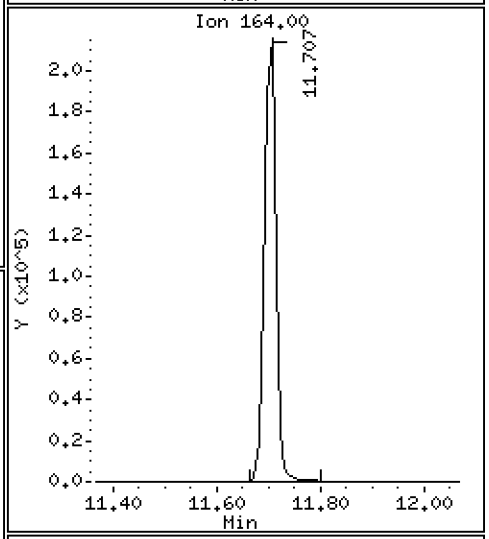
25 2,4-Dichlorophenol

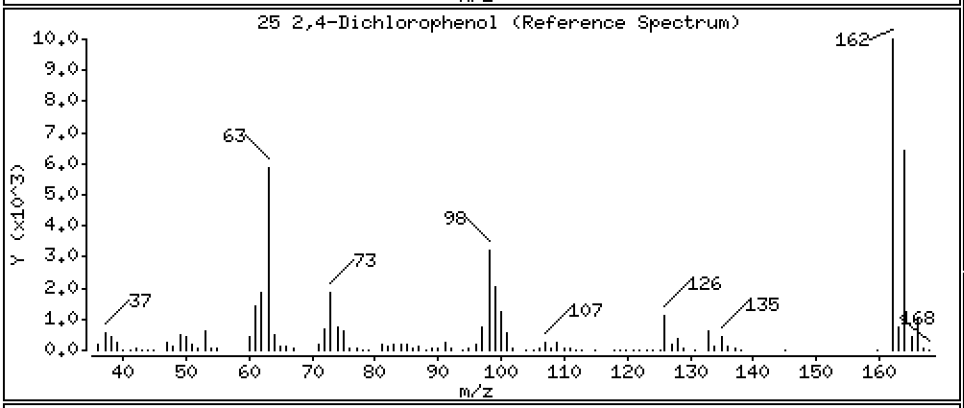
Concentration: 10.60 ug/mL

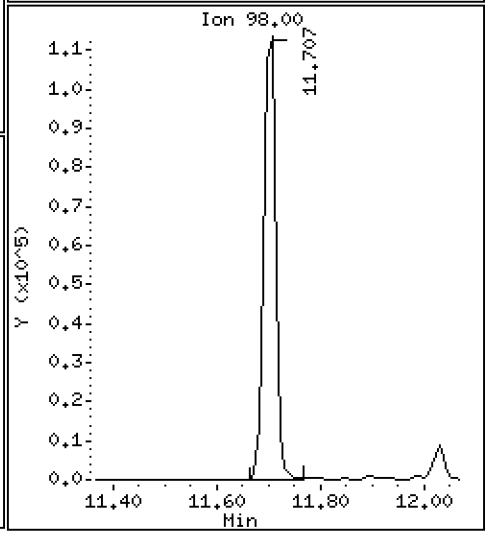


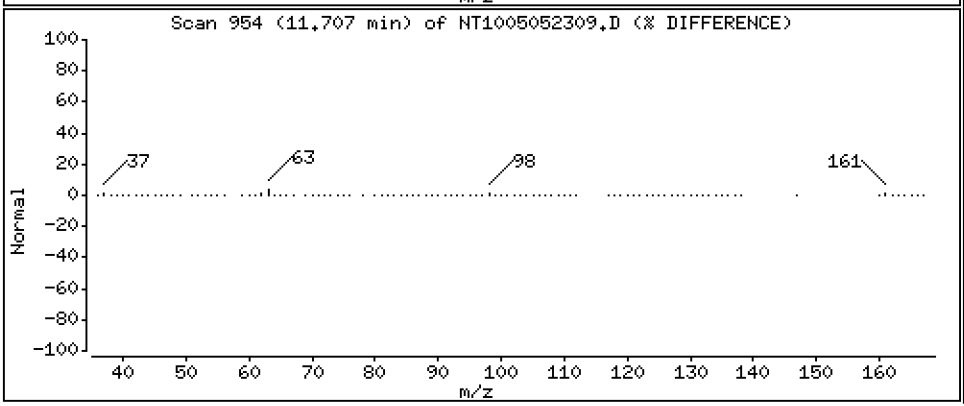












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

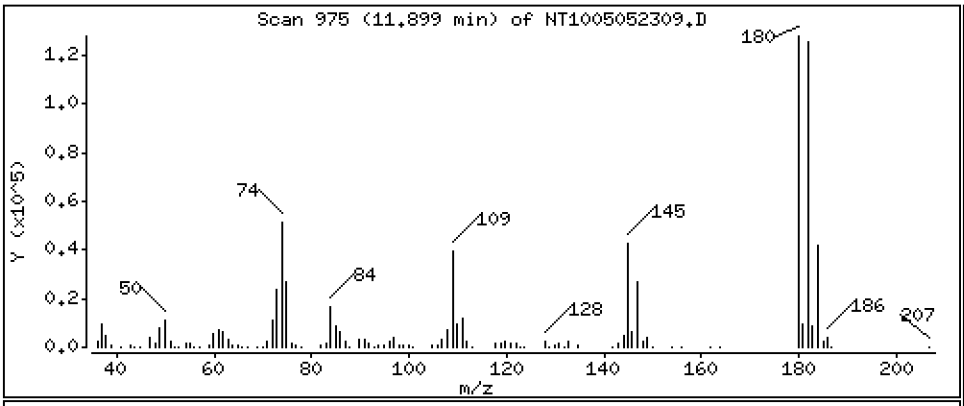
Operator: VTS

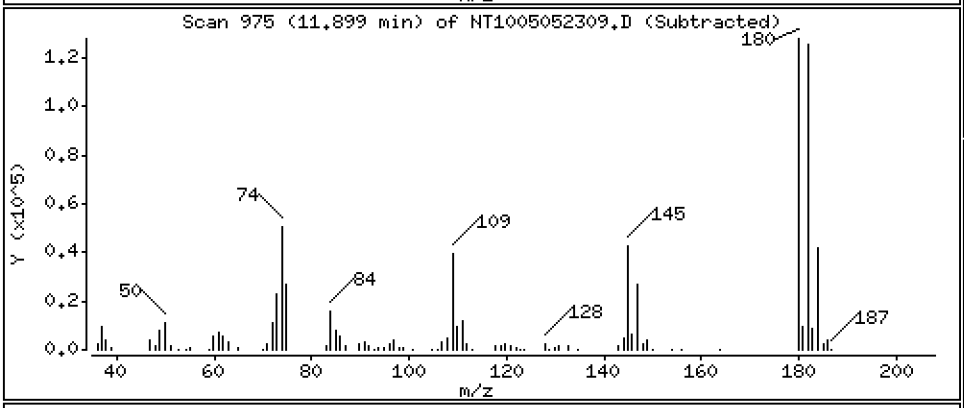
Column phase: ZB-5msi

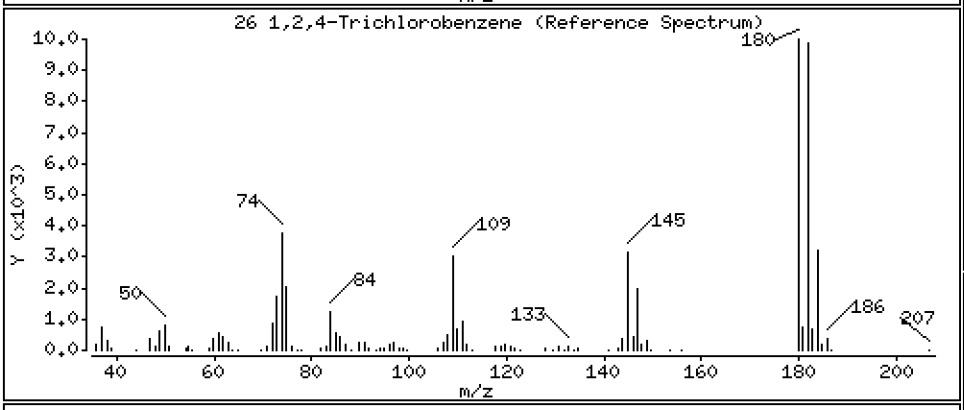
Column diameter: 0.25

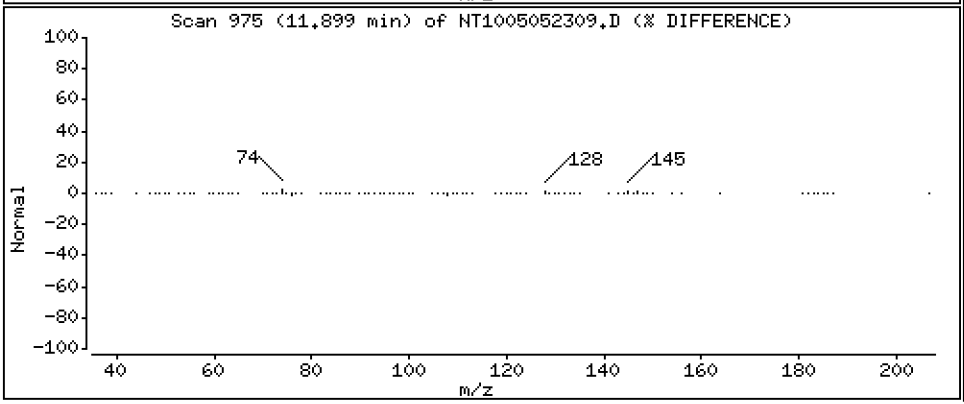
26 1,2,4-Trichlorobenzene

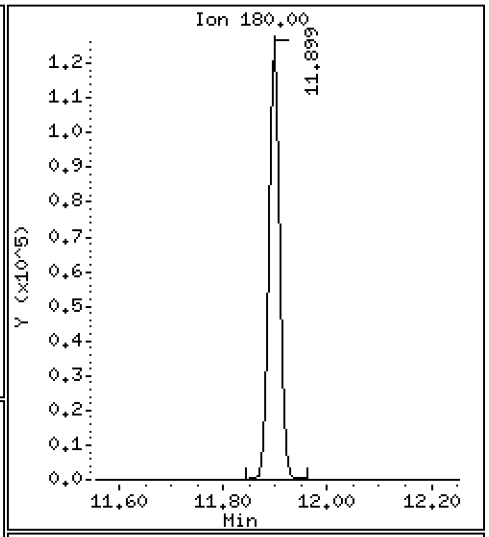
Concentration: 3.184 ug/mL

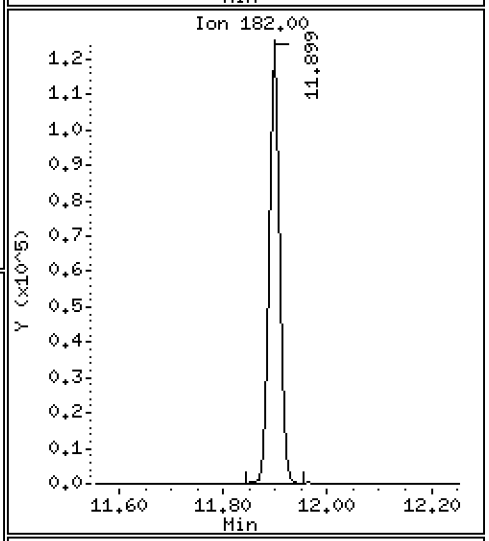


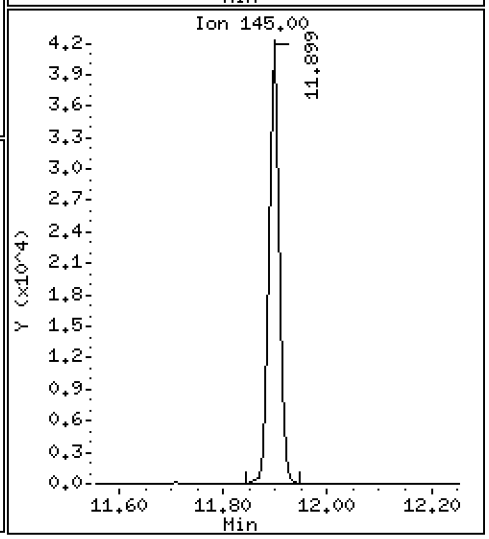












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

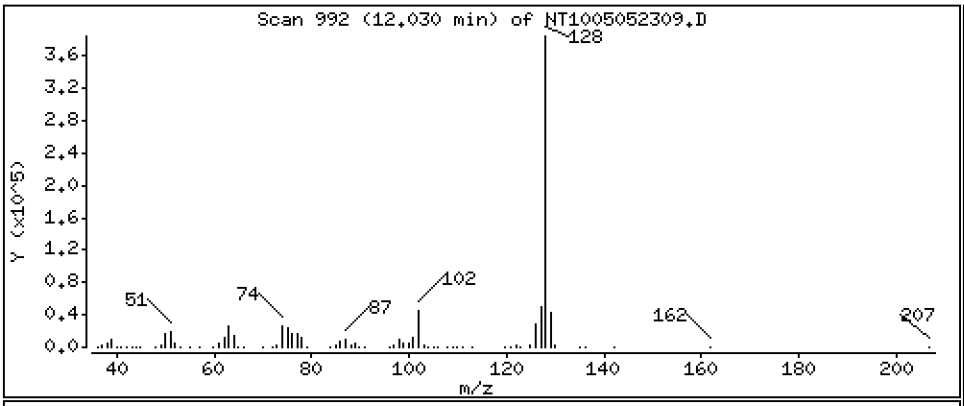
Operator: VTS

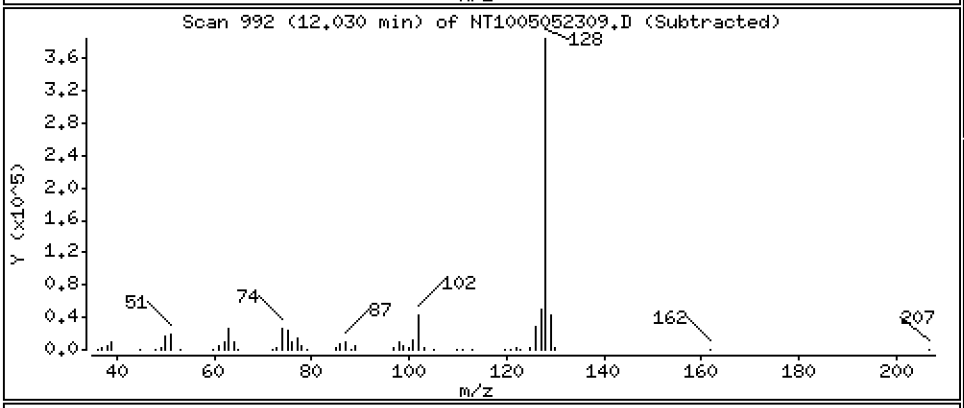
Column phase: ZB-5msi

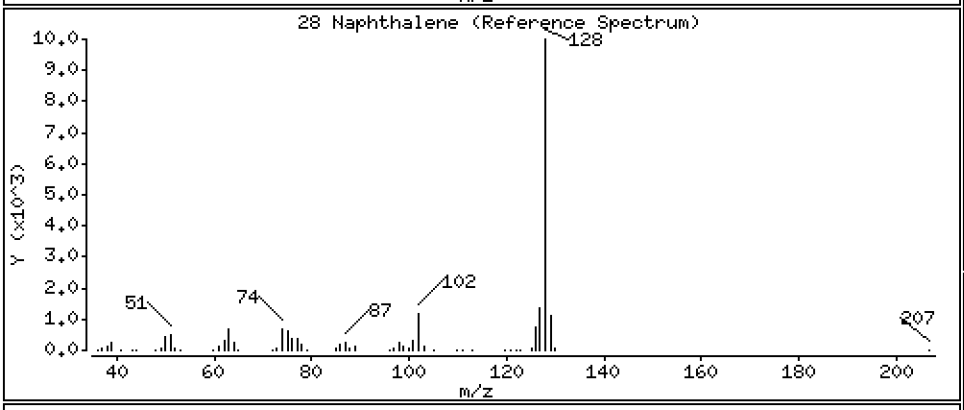
Column diameter: 0.25

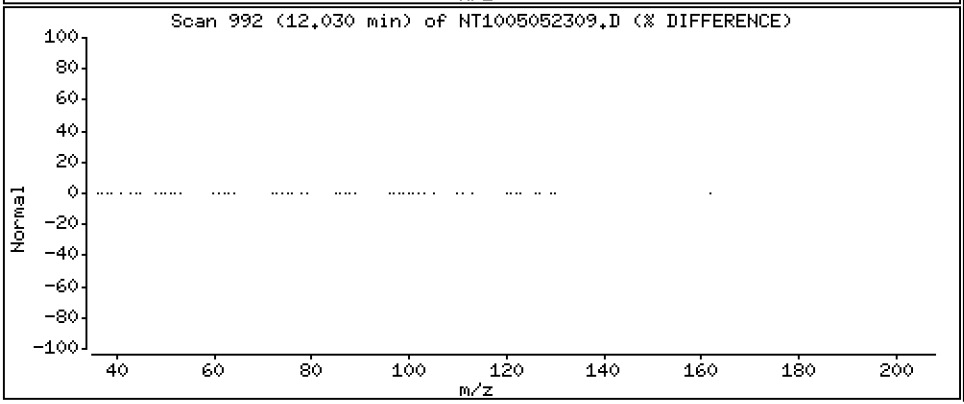
28 Naphthalene

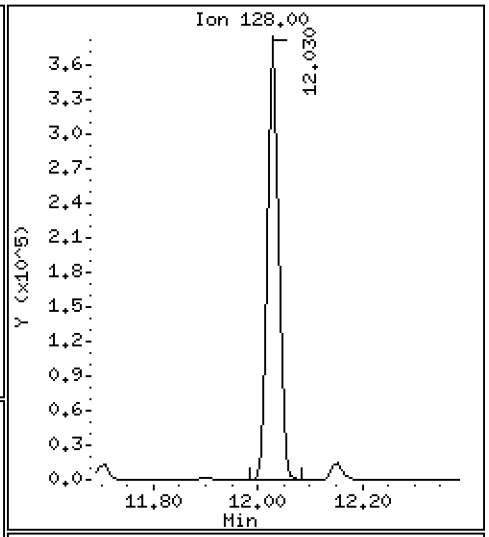
Concentration: 3.391 ug/mL

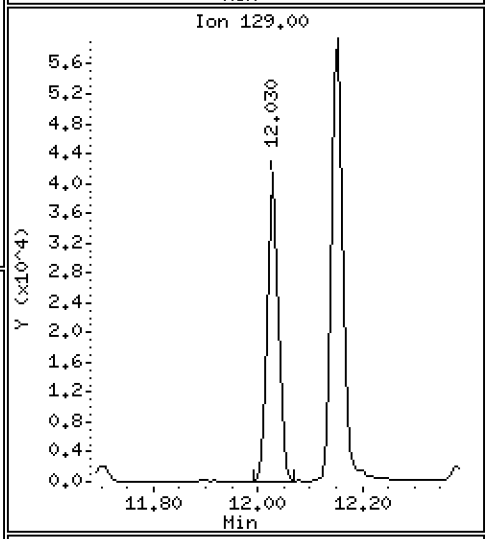


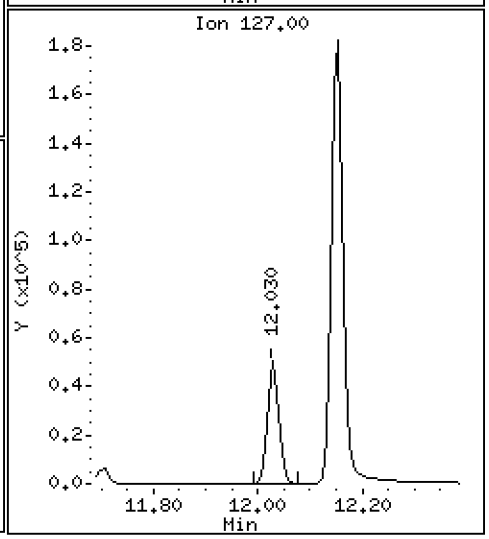












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

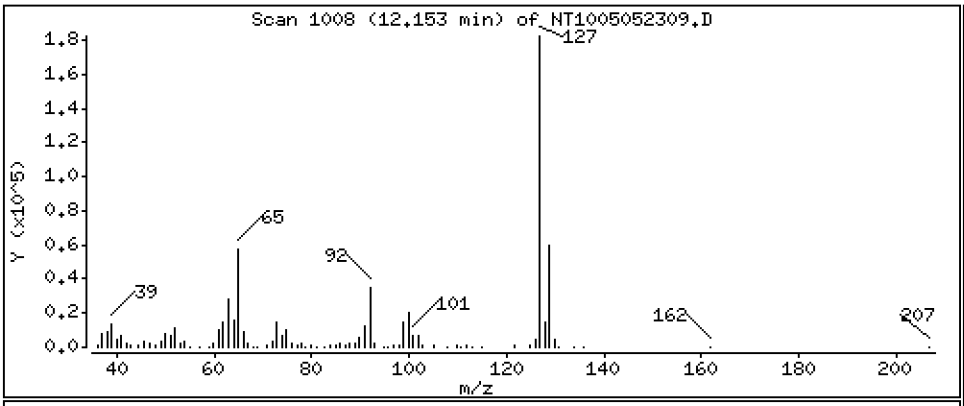
Operator: VTS

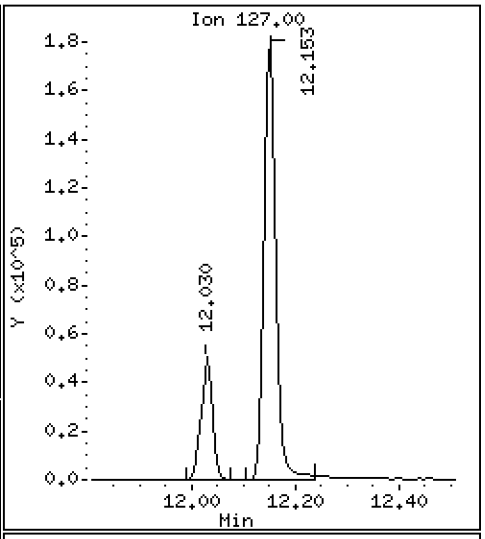
Column phase: ZB-5msi

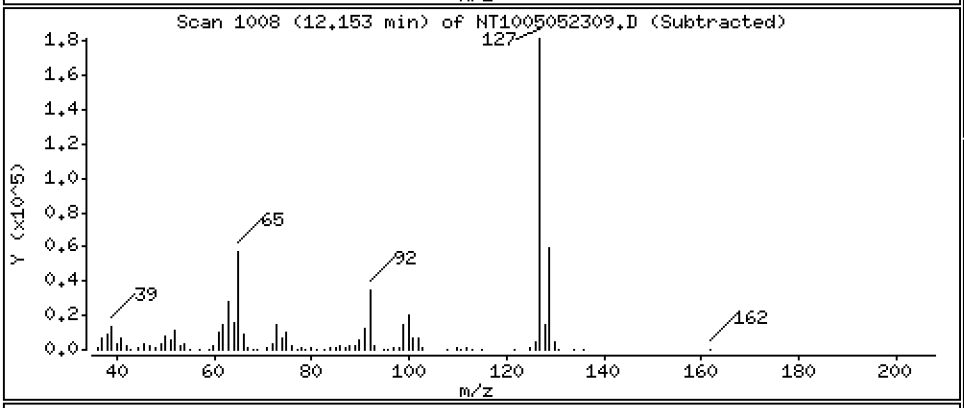
Column diameter: 0.25

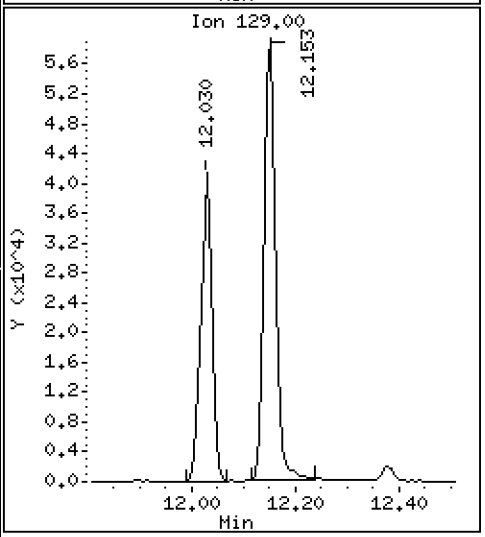
29 4-Chloroaniline

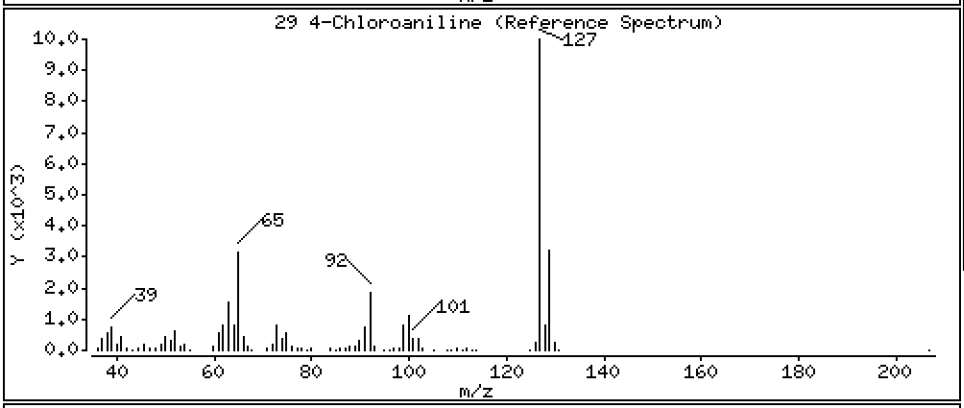
Concentration: 4.983 ug/mL

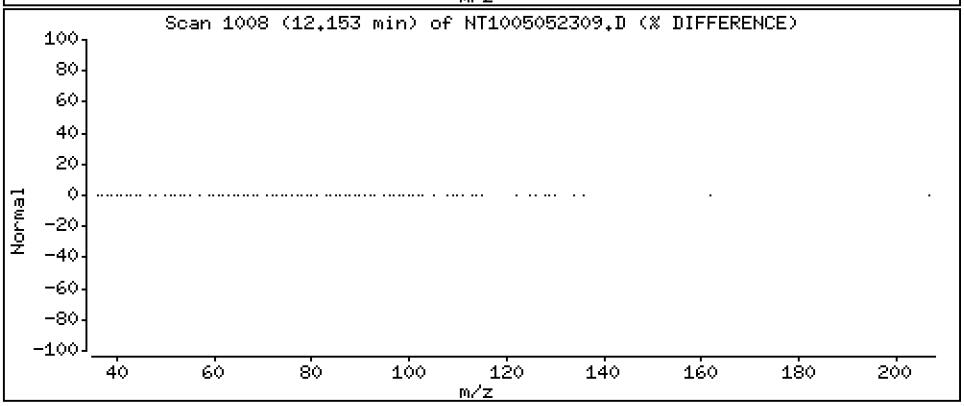












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

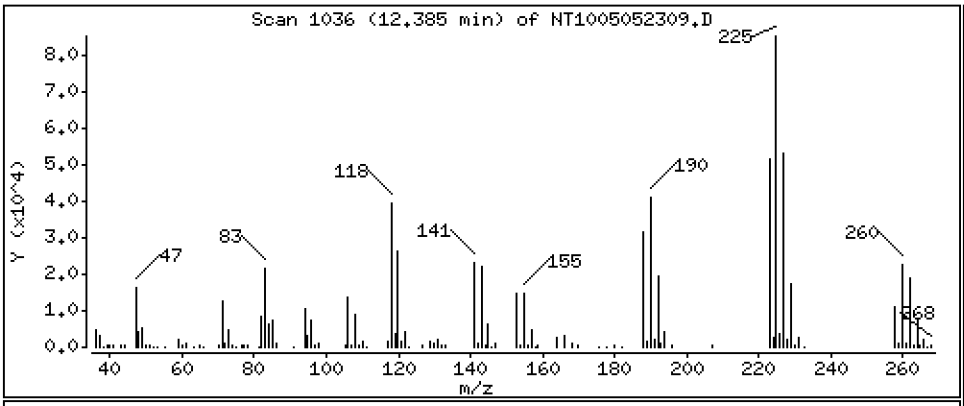
Operator: VTS

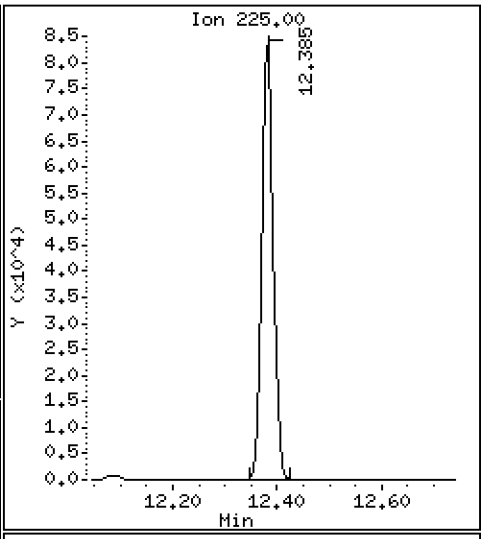
Column phase: ZB-5msi

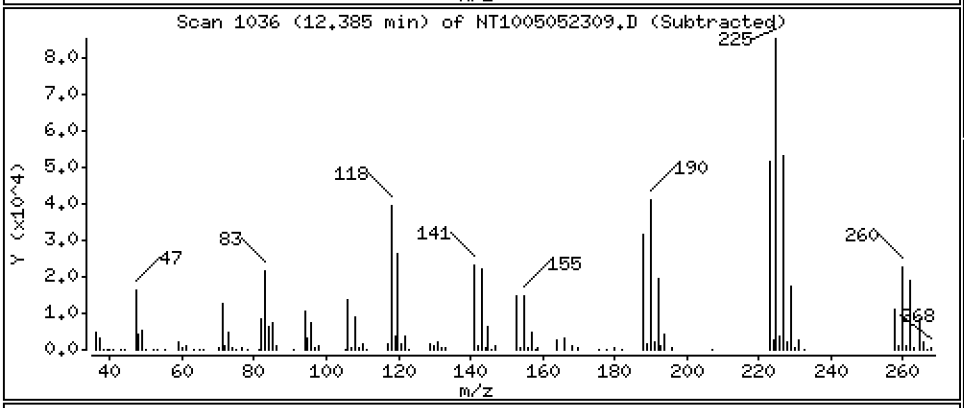
Column diameter: 0.25

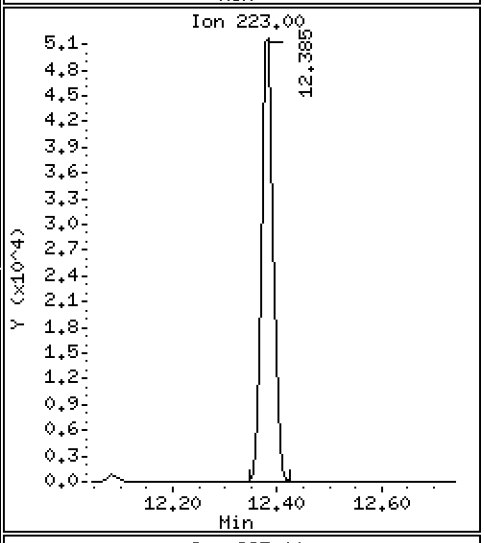
30 Hexachlorobutadiene

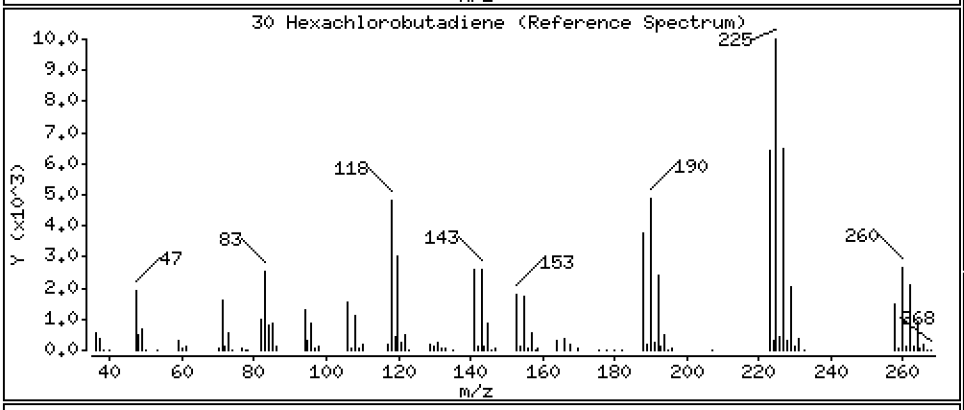
Concentration: 3.313 ug/mL

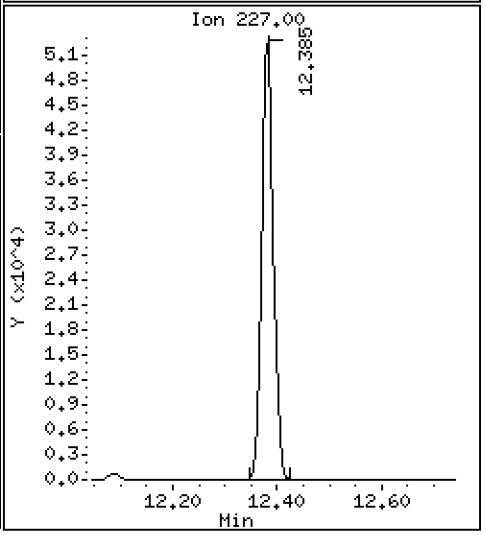


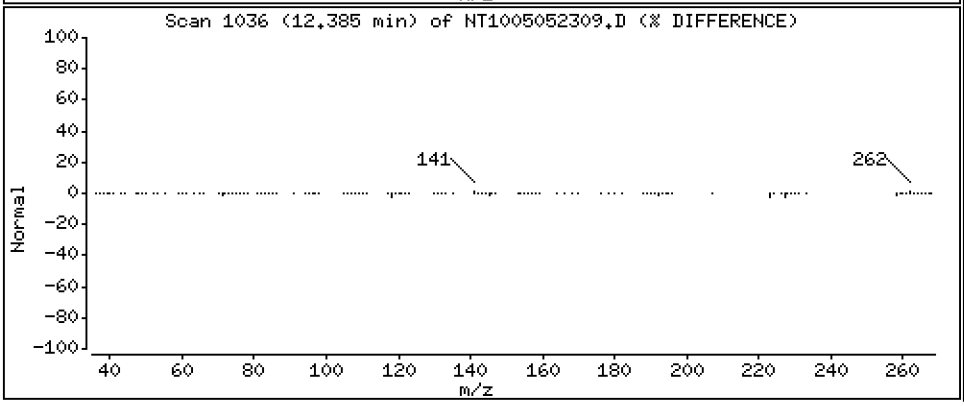












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

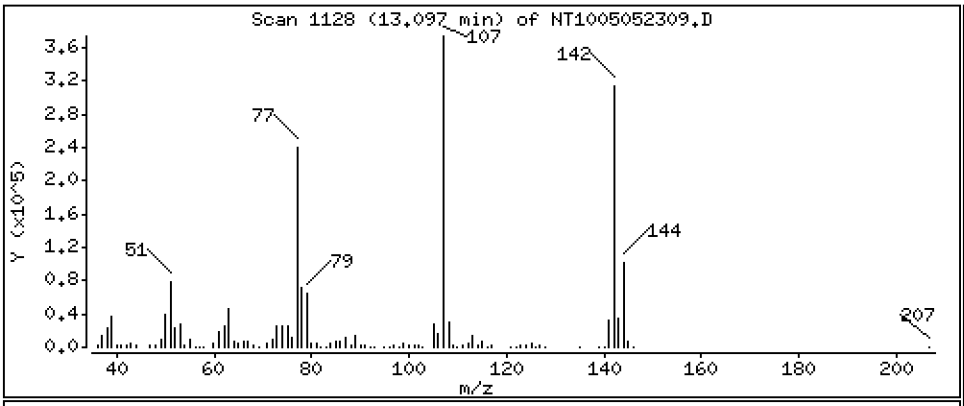
Operator: VTS

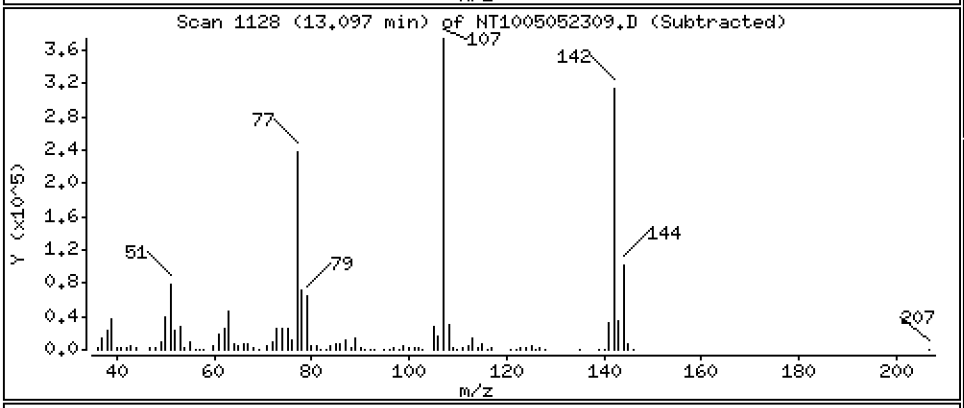
Column phase: ZB-5msi

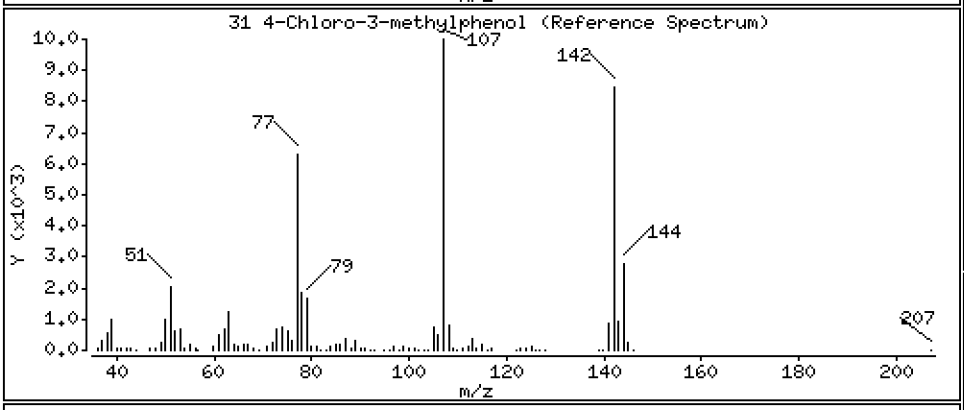
Column diameter: 0.25

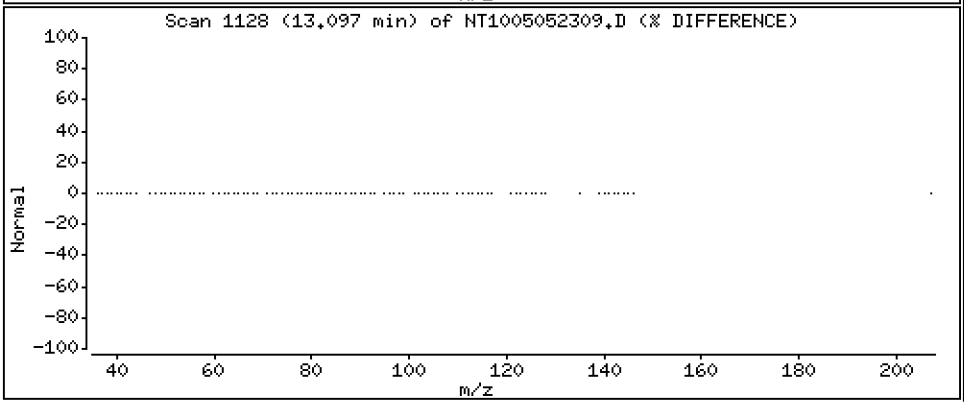
31 4-Chloro-3-methylphenol

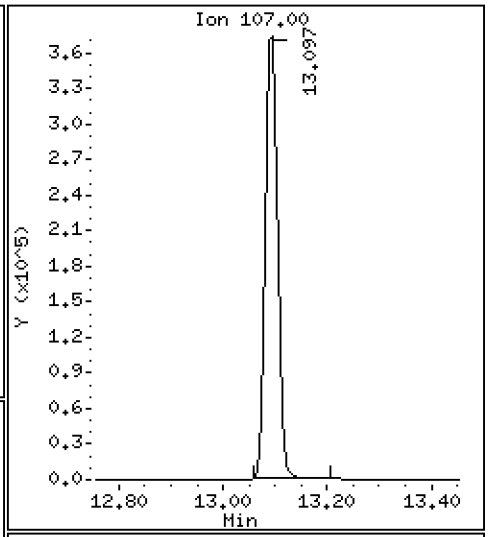
Concentration: 11.05 ug/mL

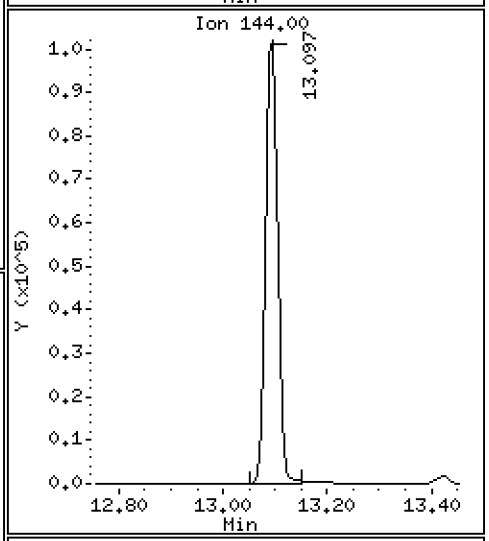


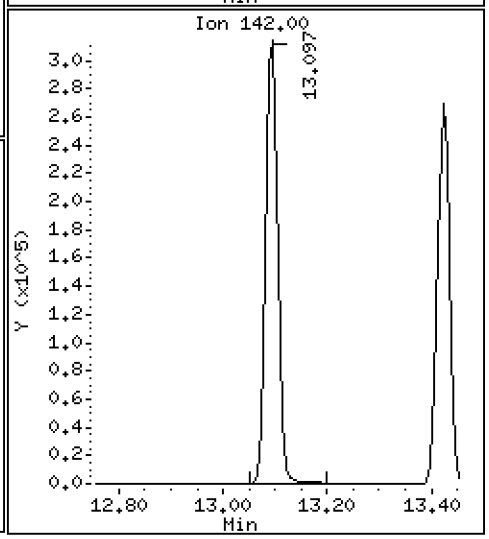












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

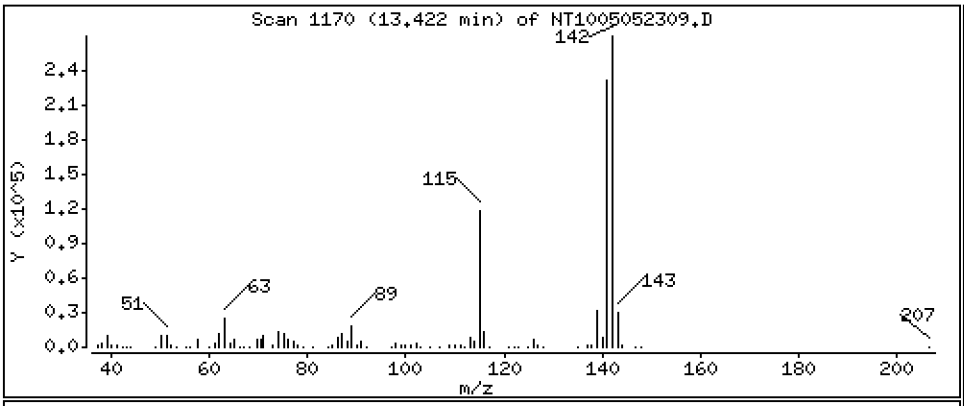
Operator: VTS

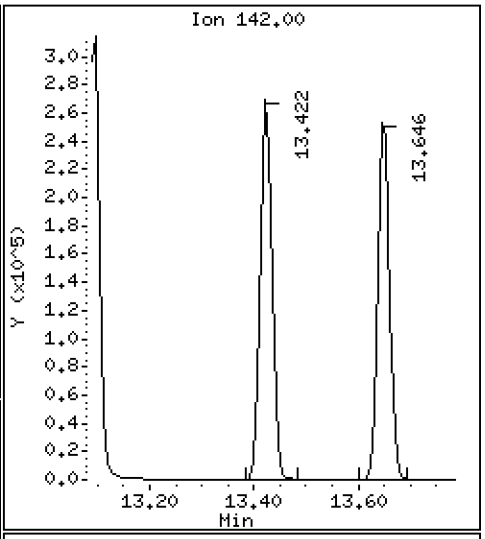
Column phase: ZB-5msi

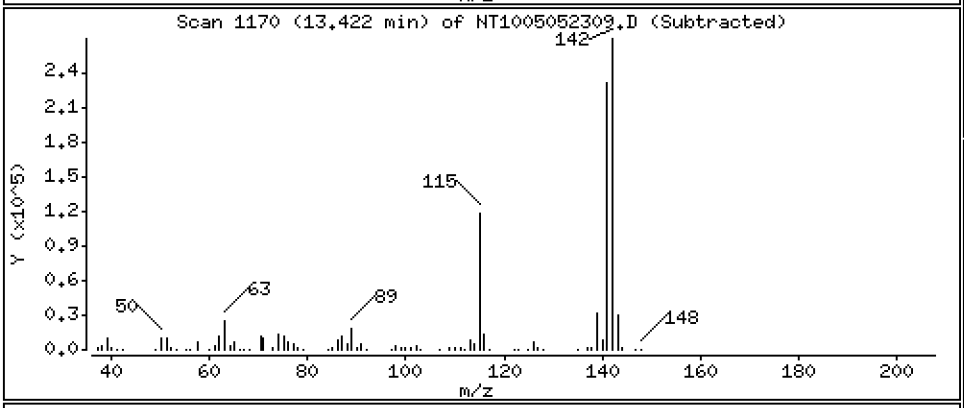
Column diameter: 0.25

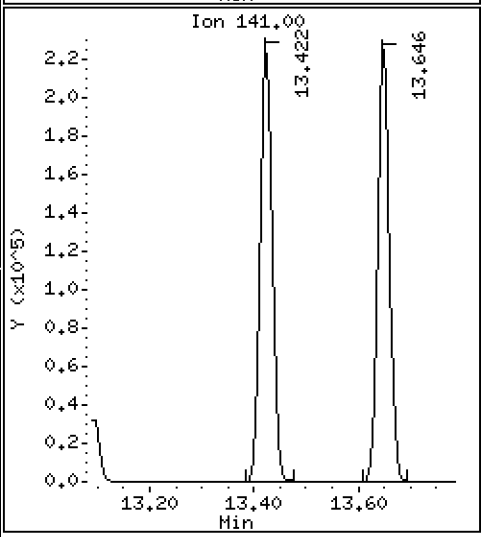
32 2-Methylnaphthalene

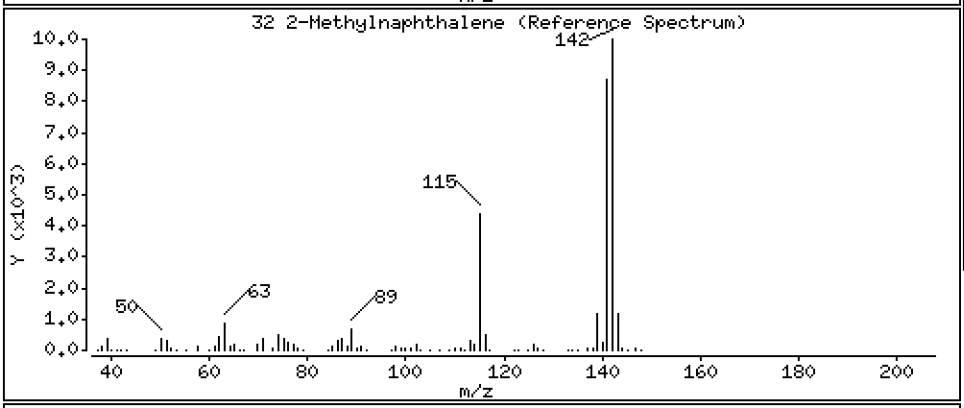
Concentration: 3.338 ug/mL

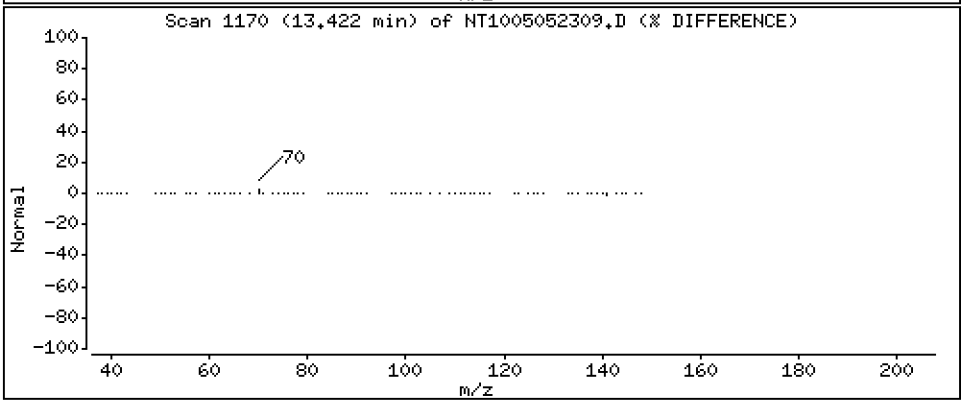












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

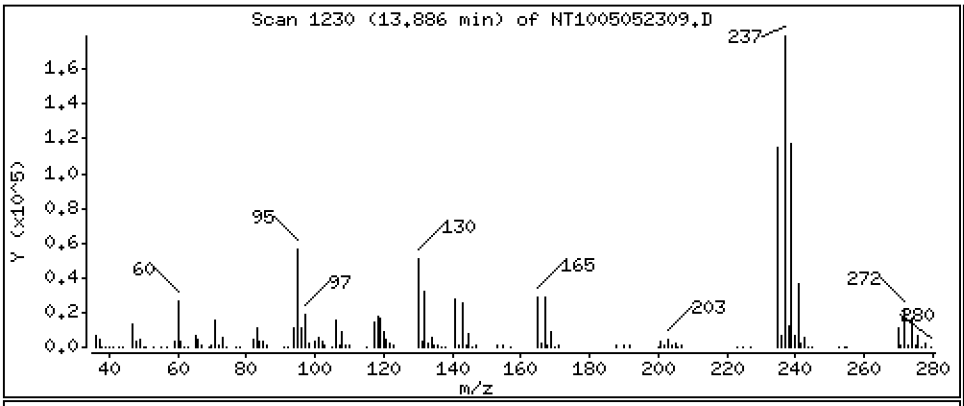
Operator: VTS

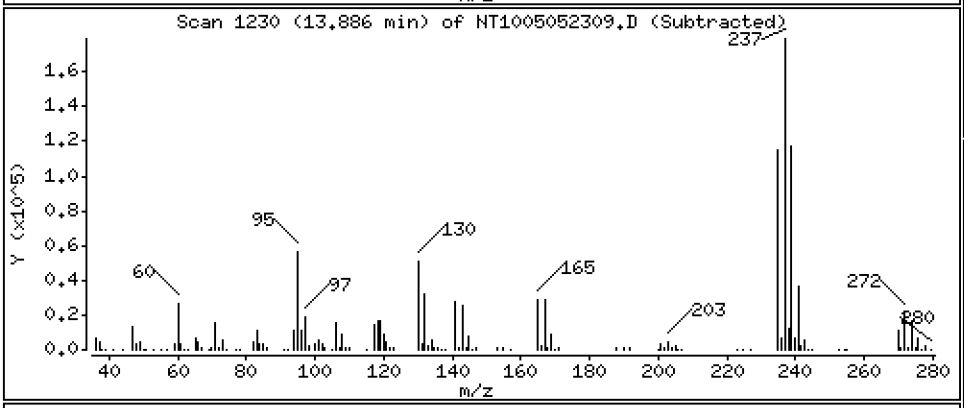
Column phase: ZB-5msi

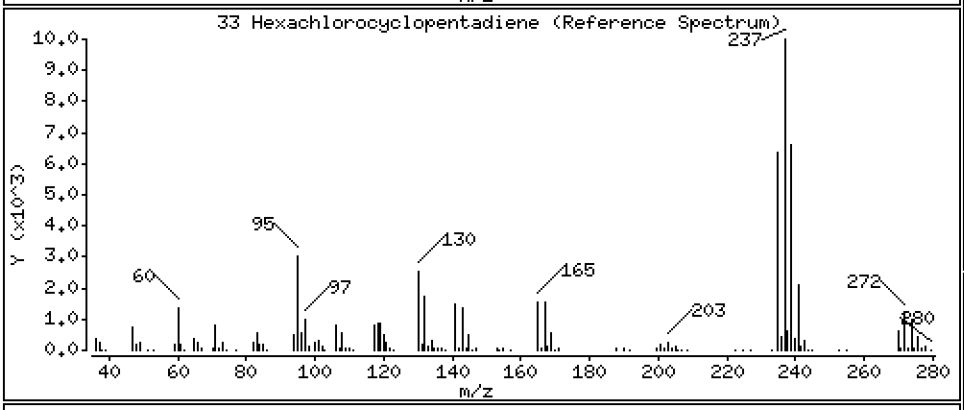
Column diameter: 0.25

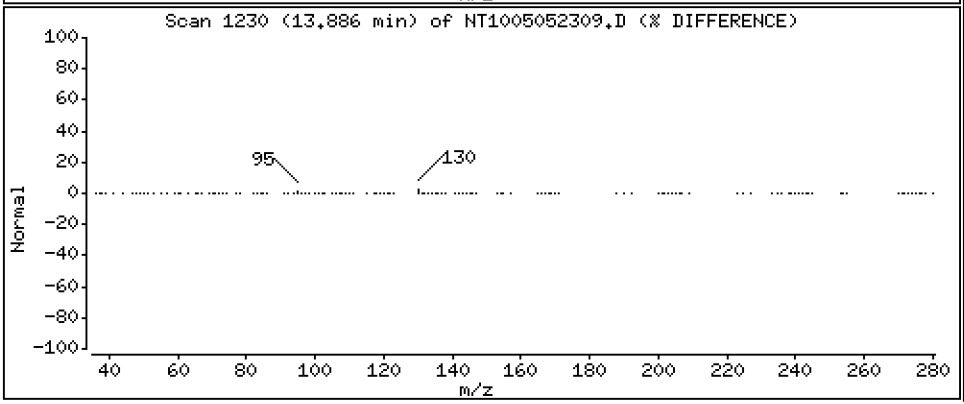
33 Hexachlorocyclopentadiene

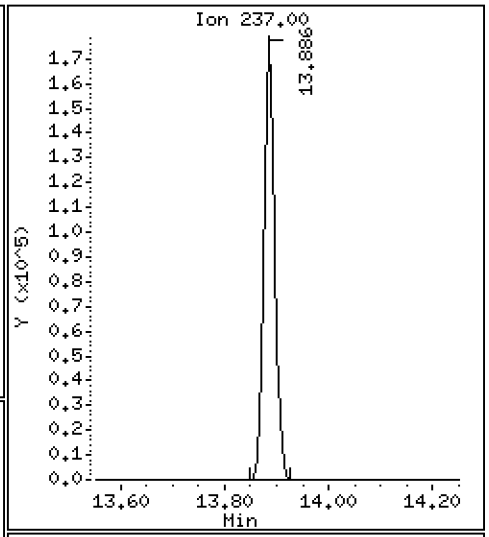
Concentration: 6.329 ug/mL

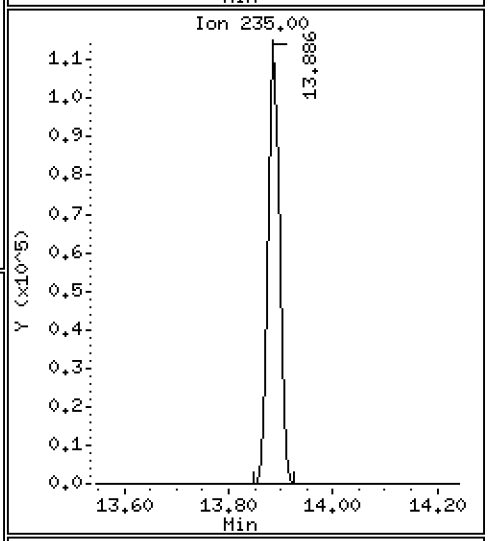


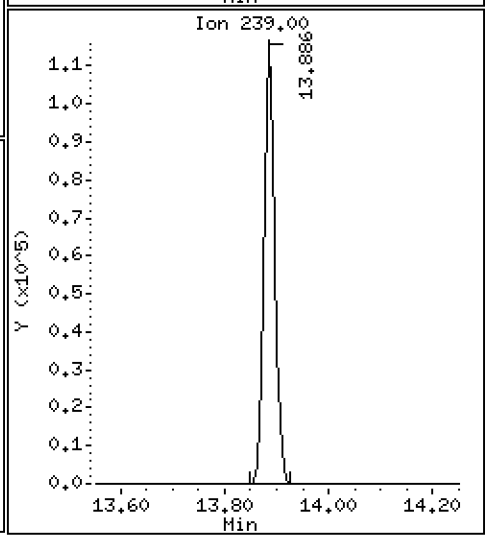












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

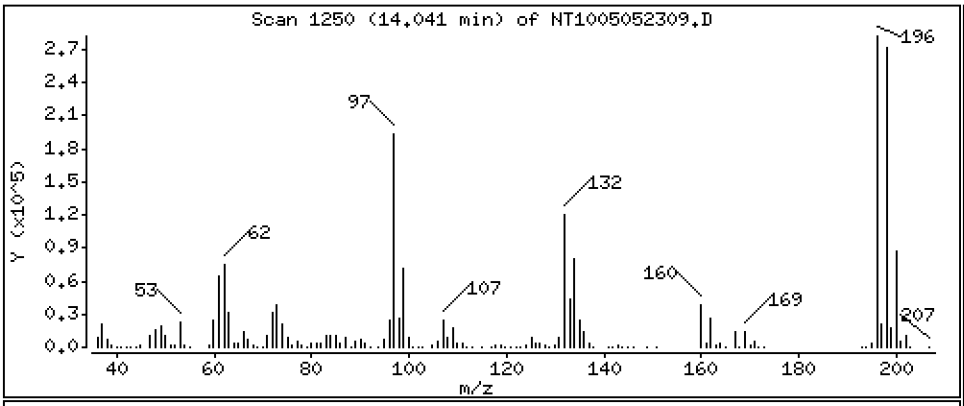
Operator: VTS

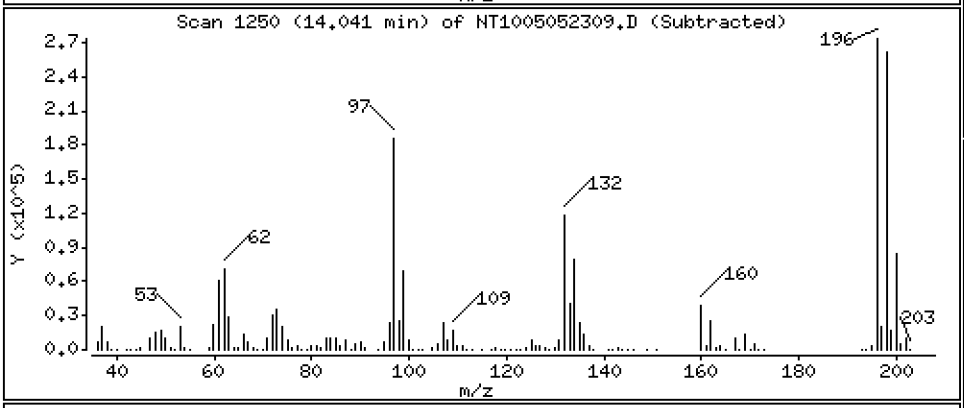
Column phase: ZB-5msi

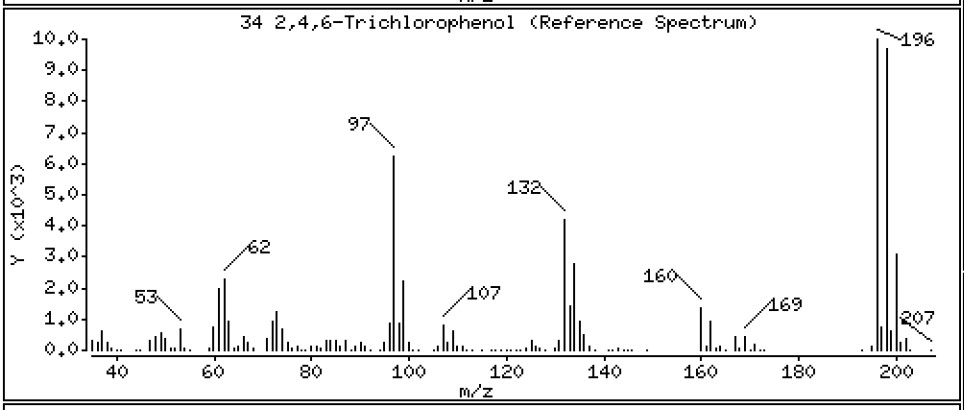
Column diameter: 0.25

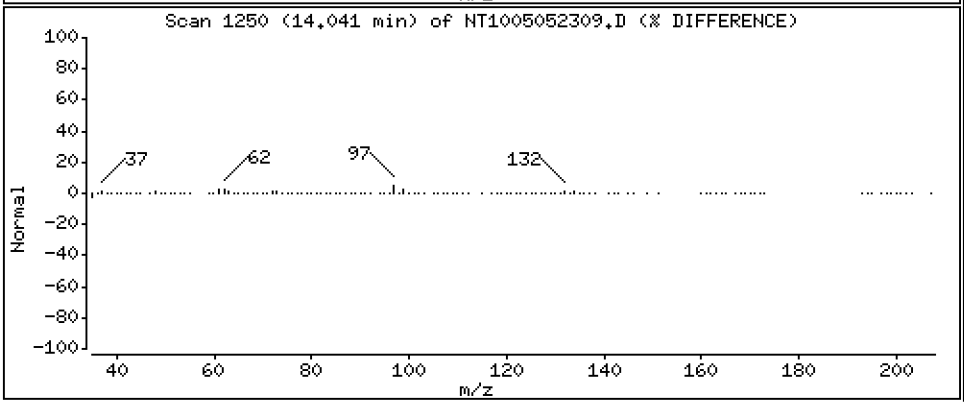
34 2,4,6-Trichlorophenol

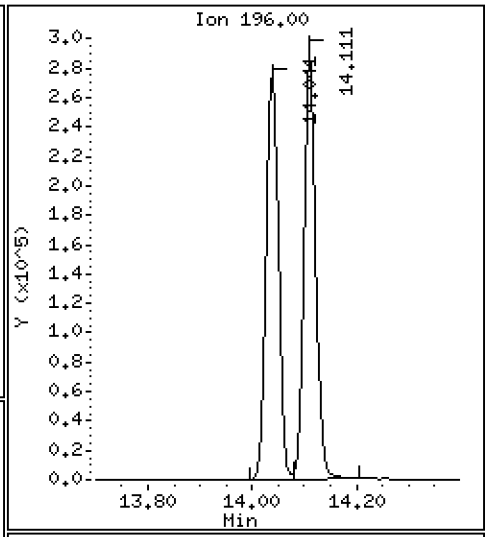
Concentration: 10.79 ug/mL

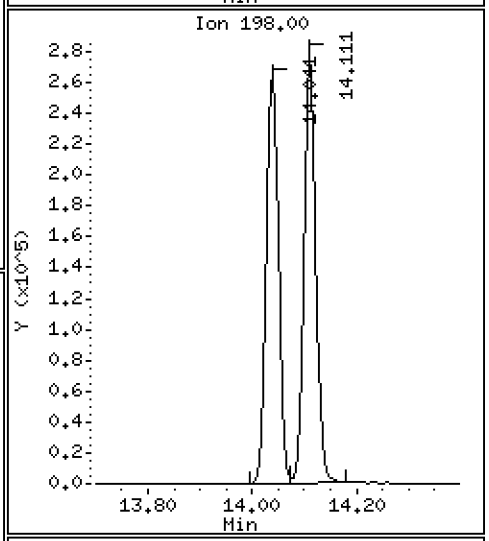


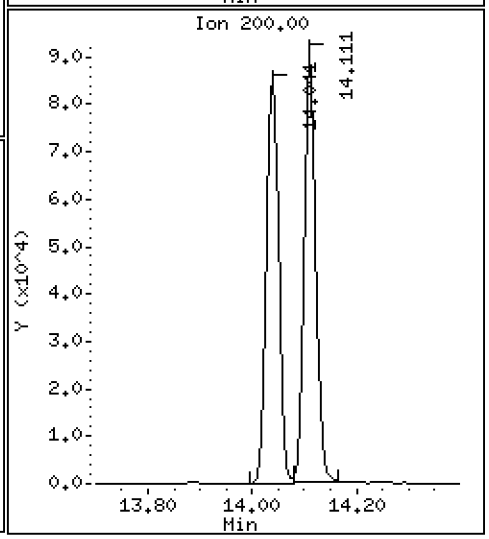












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

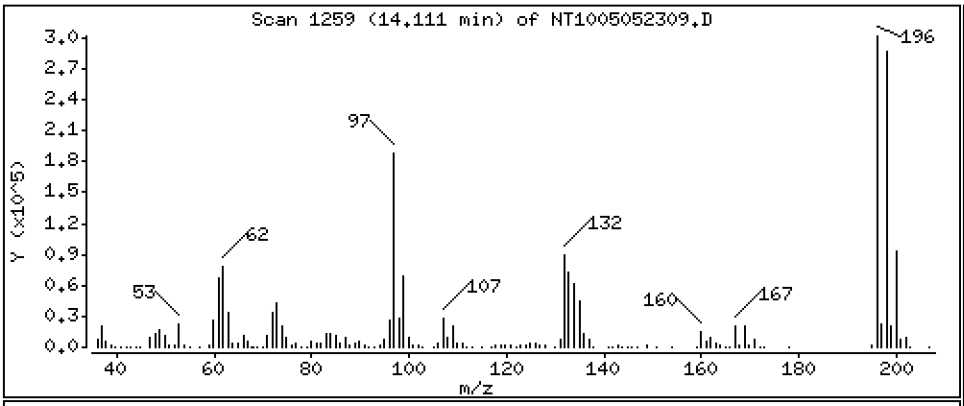
Operator: VTS

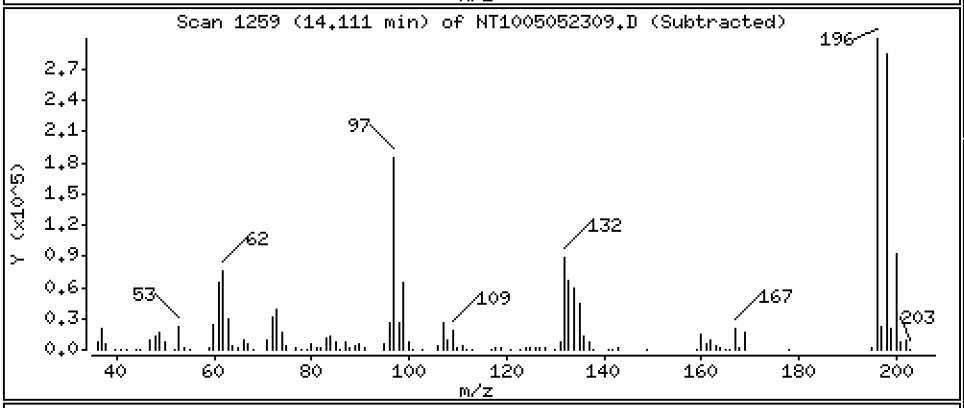
Column phase: ZB-5msi

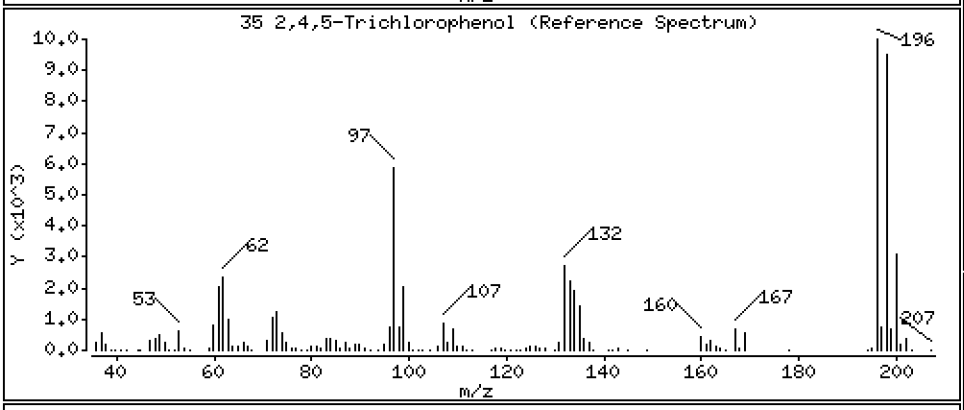
Column diameter: 0.25

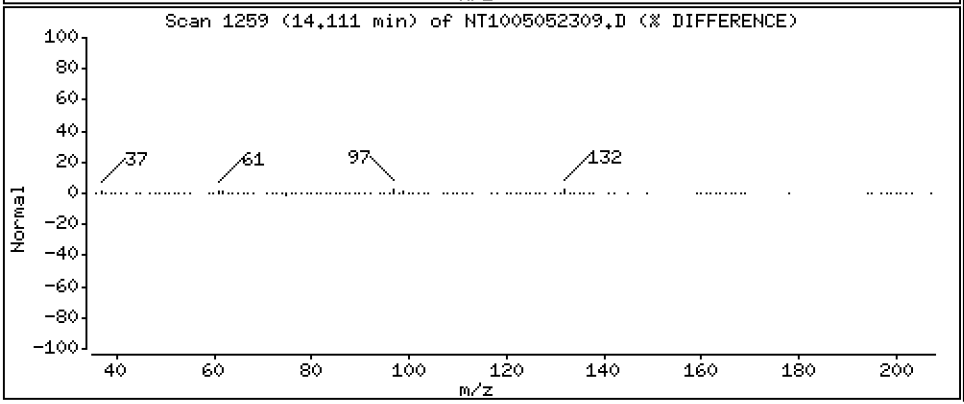
35 2,4,5-Trichlorophenol

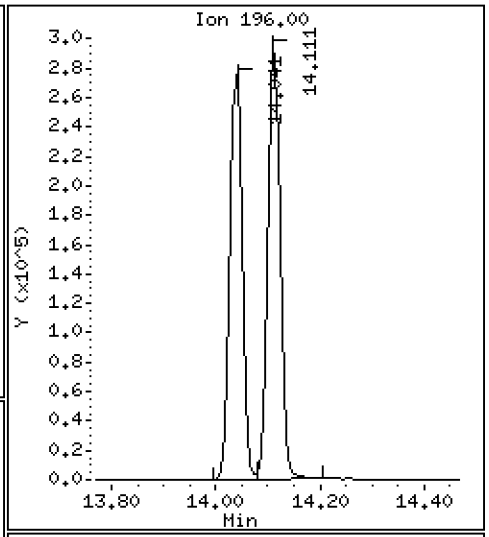
Concentration: 10.41 ug/mL

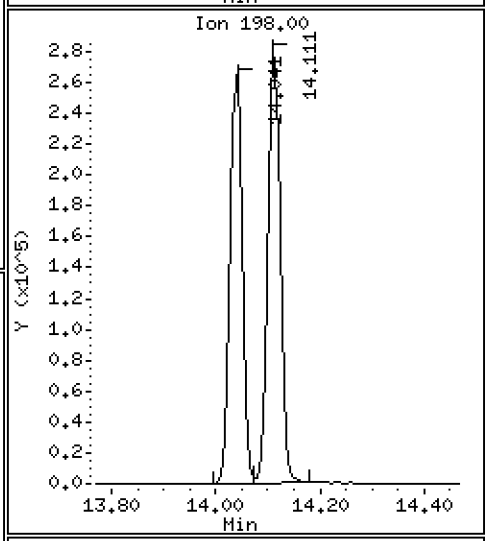


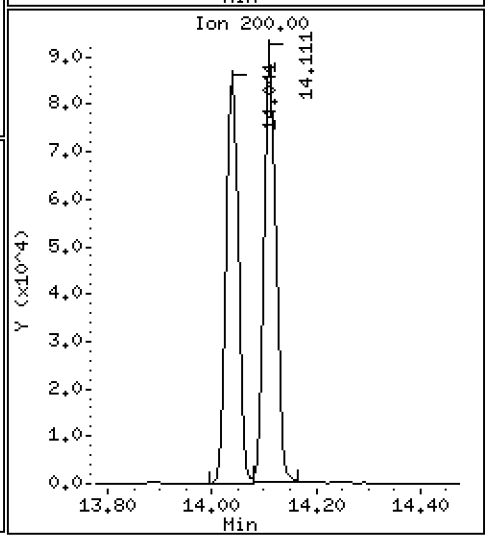












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

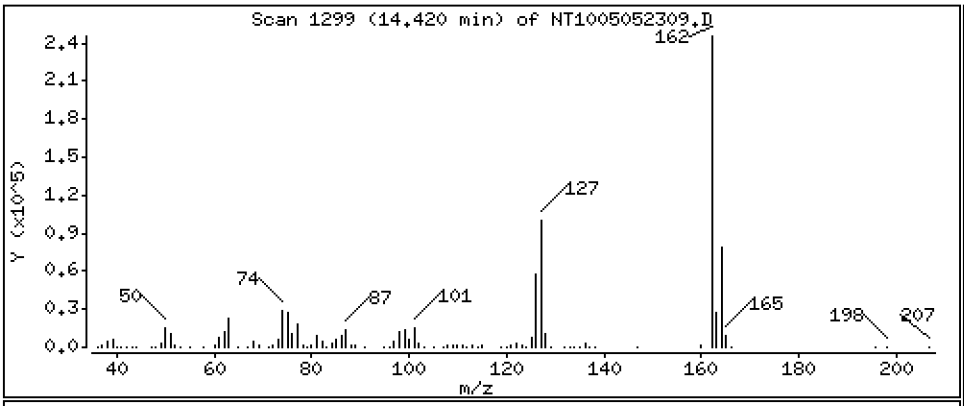
Operator: VTS

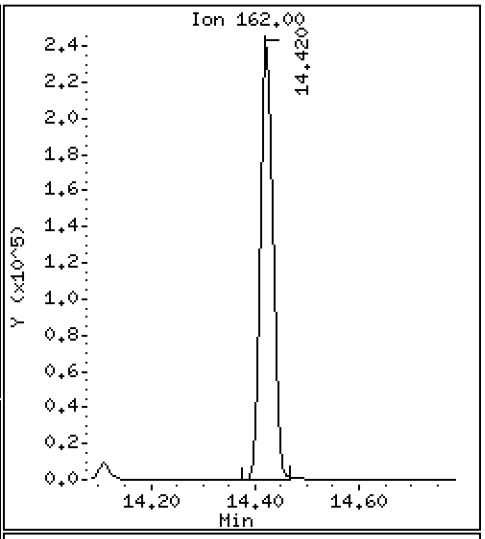
Column phase: ZB-5msi

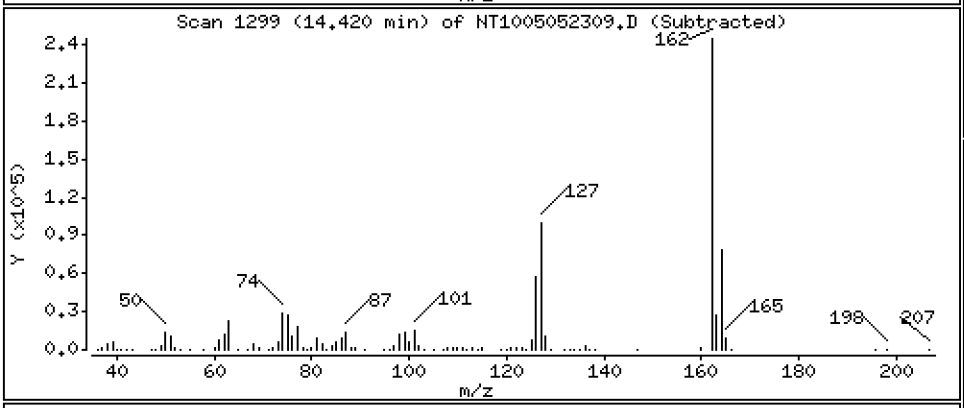
Column diameter: 0.25

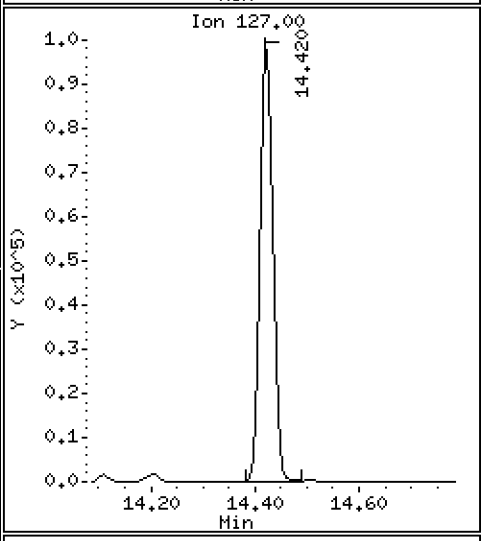
37 2-Chloronaphthalene

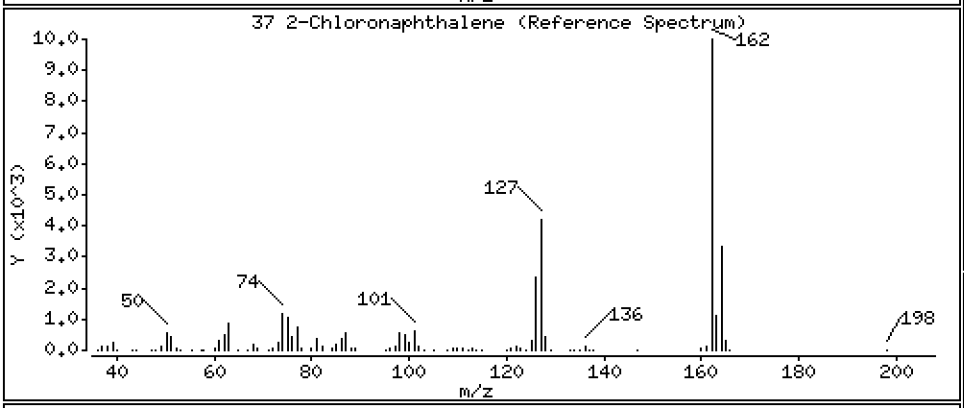
Concentration: 3.503 ug/mL

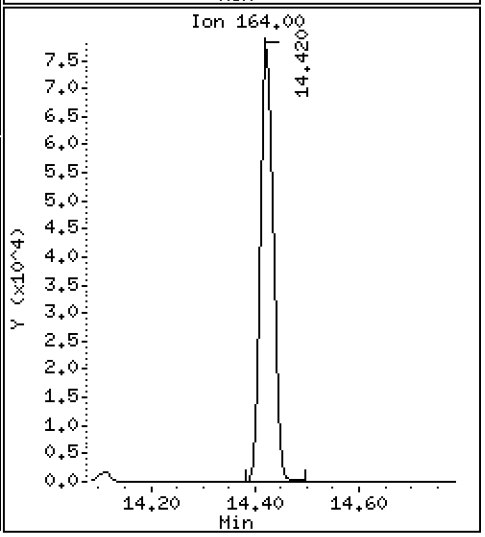


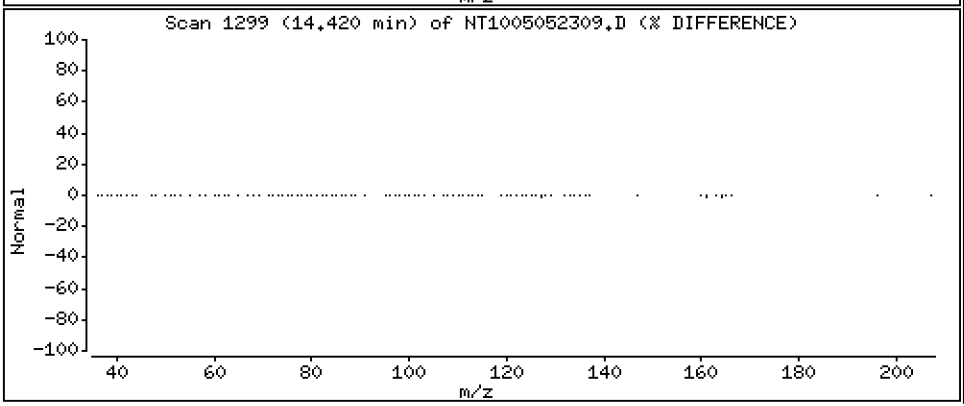












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

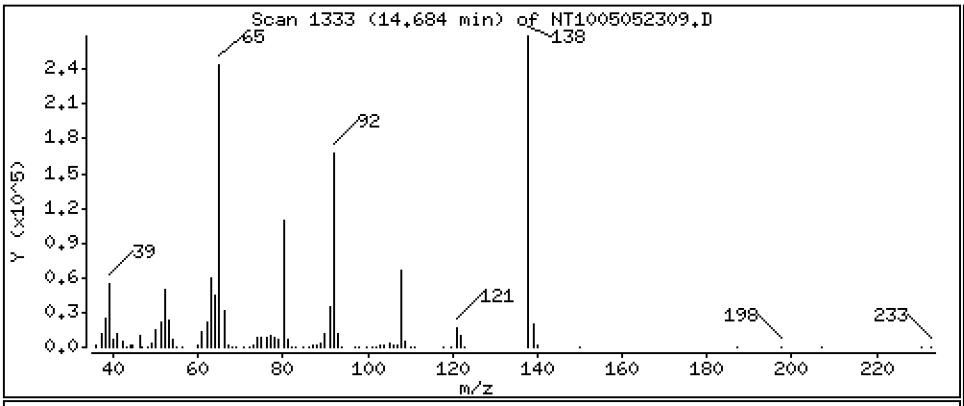
Operator: VTS

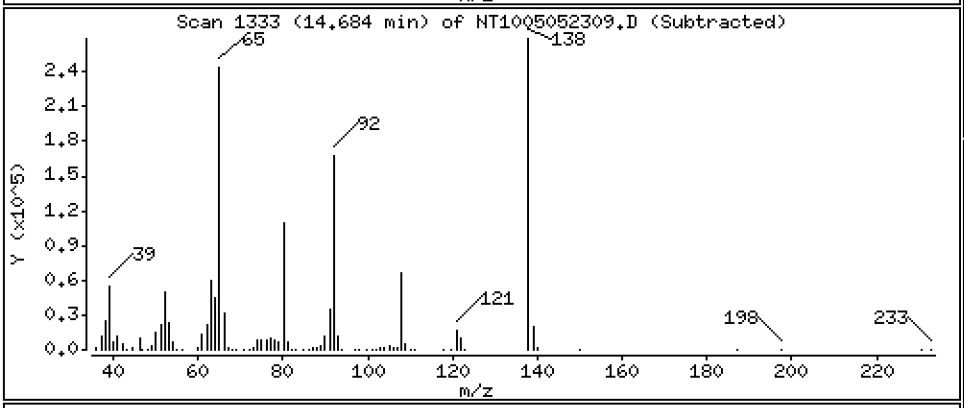
Column phase: ZB-5msi

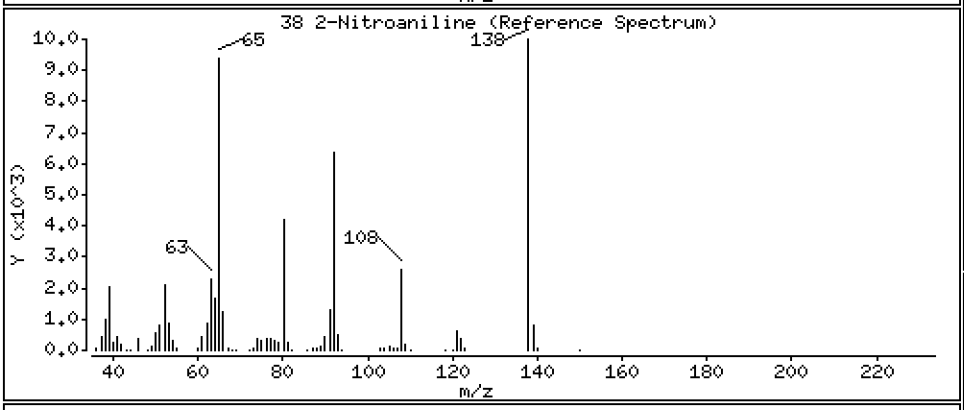
Column diameter: 0.25

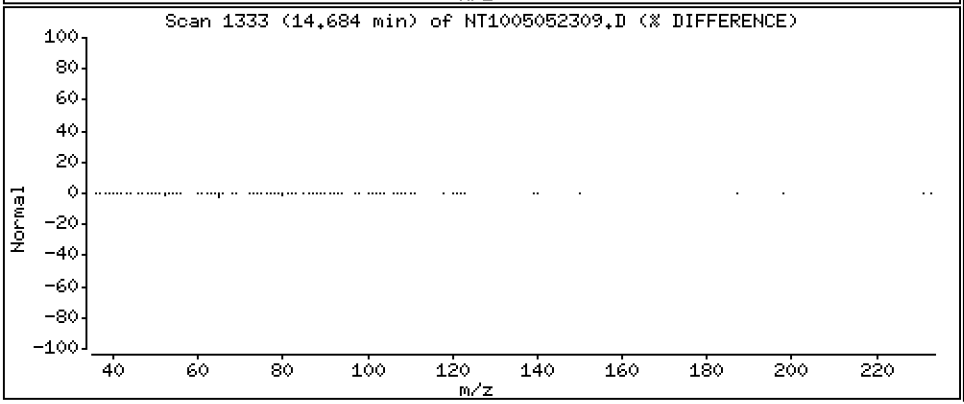
38 2-Nitroaniline

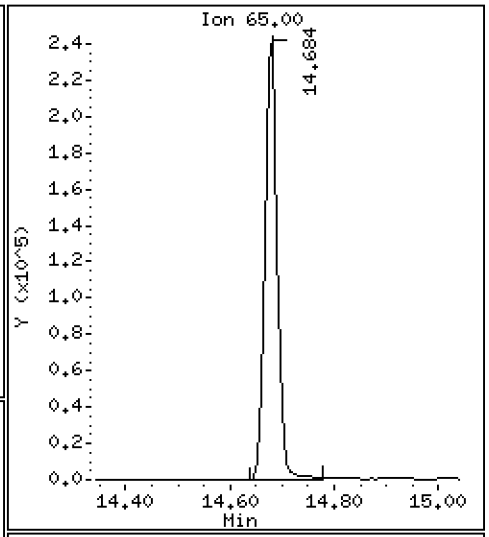
Concentration: 12.21 ug/mL

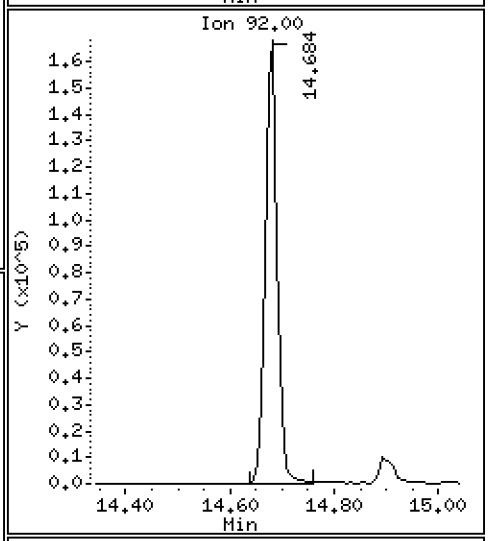


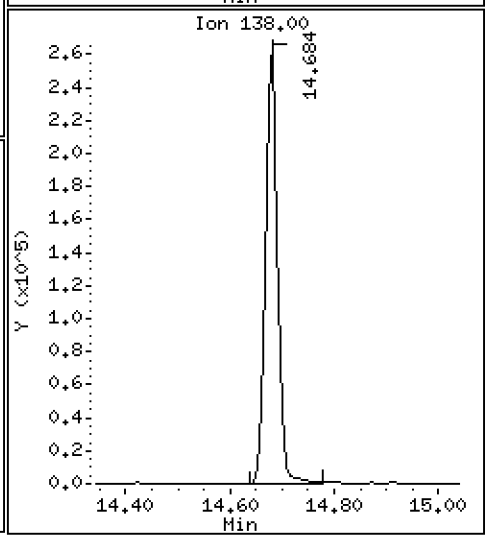












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

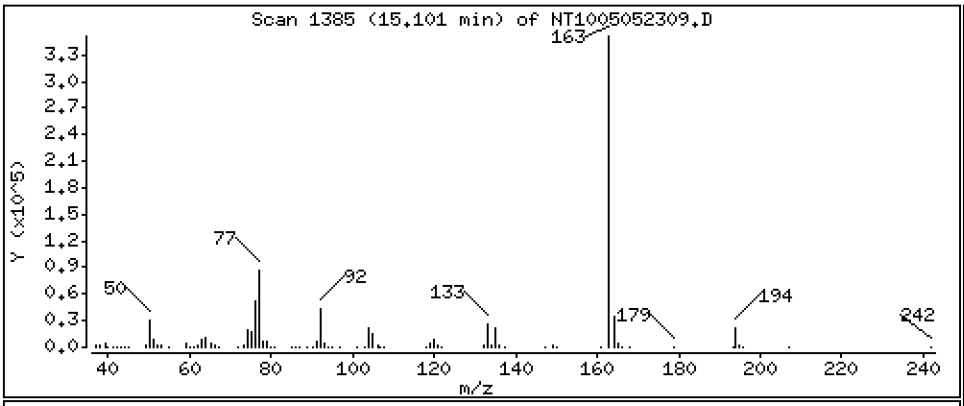
Operator: VTS

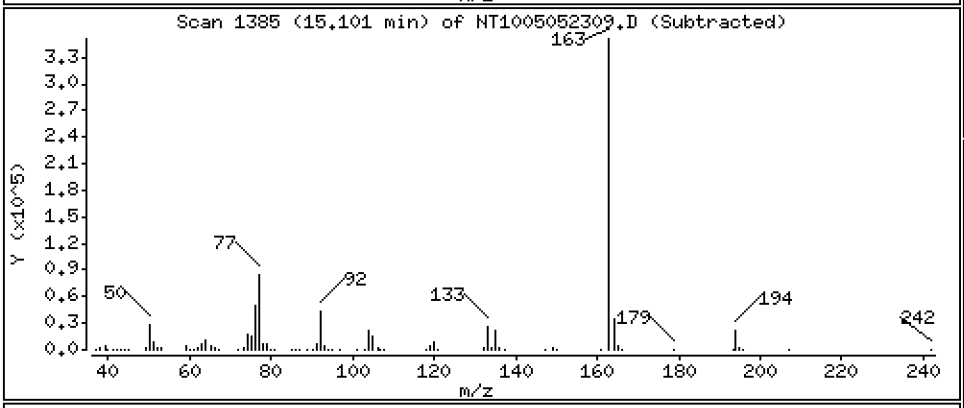
Column phase: ZB-5msi

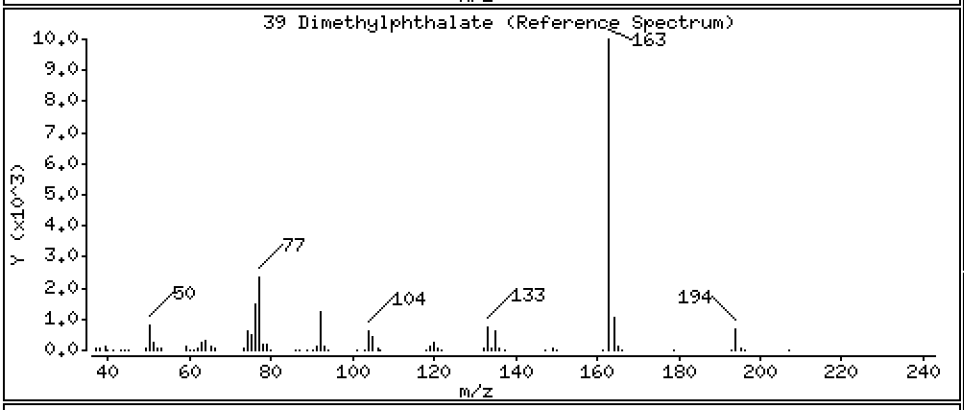
Column diameter: 0.25

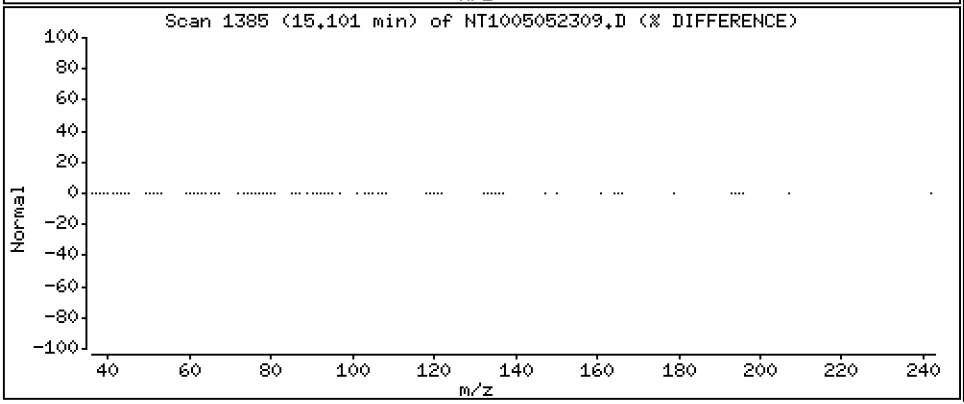
39 Dimethylphthalate

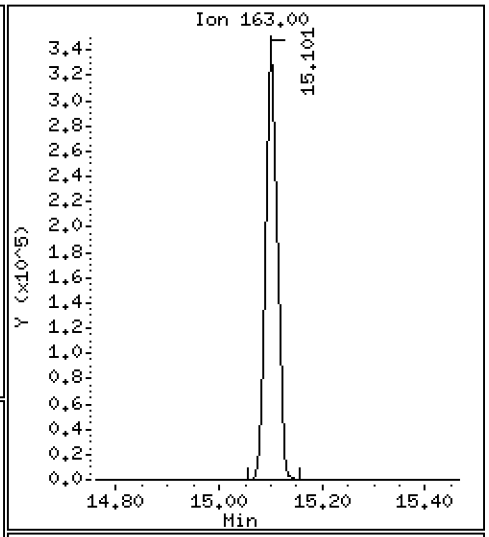
Concentration: 4.143 ug/mL

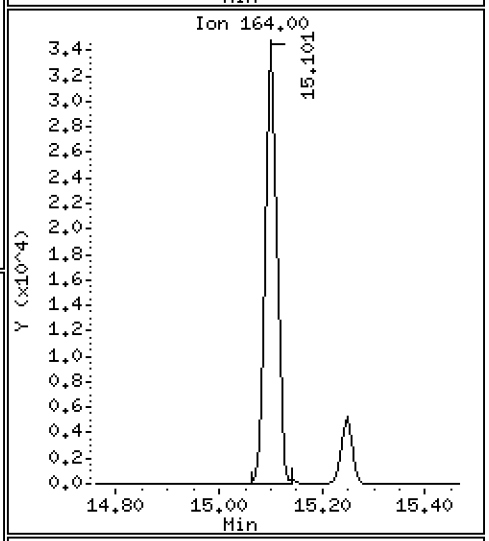


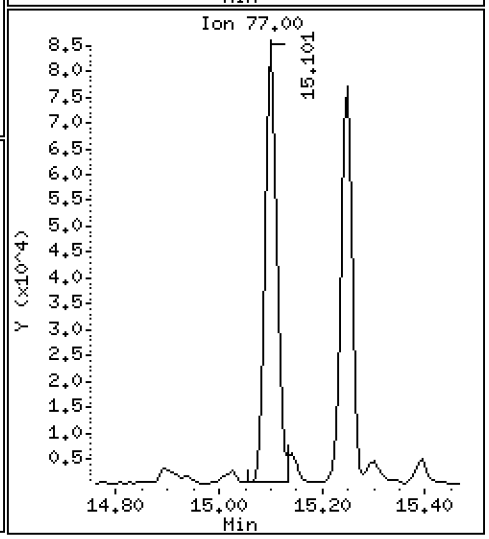












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

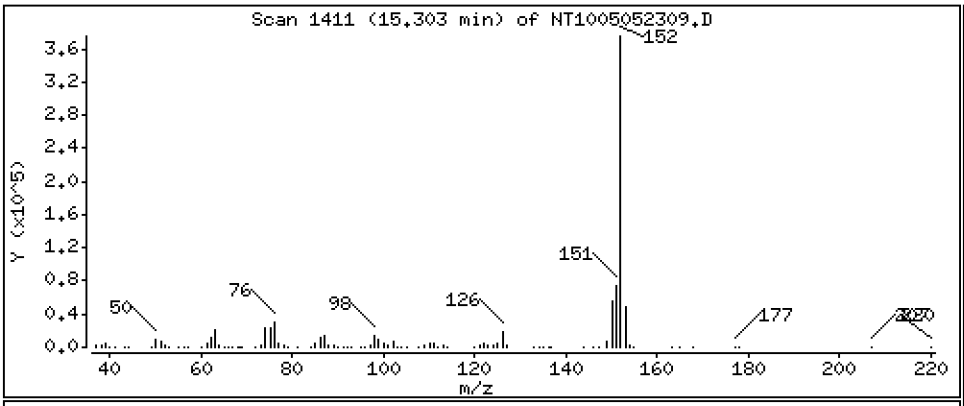
Operator: VTS

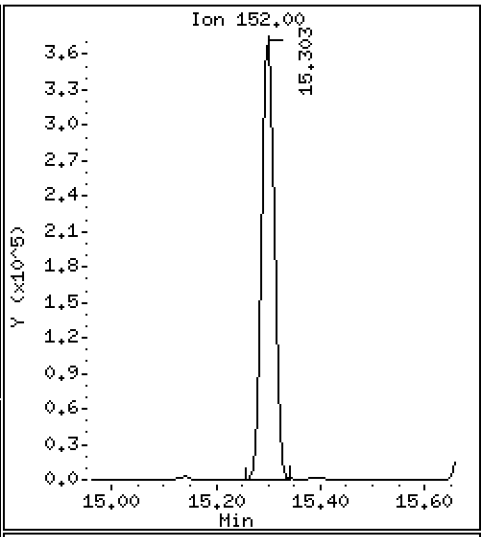
Column phase: ZB-5msi

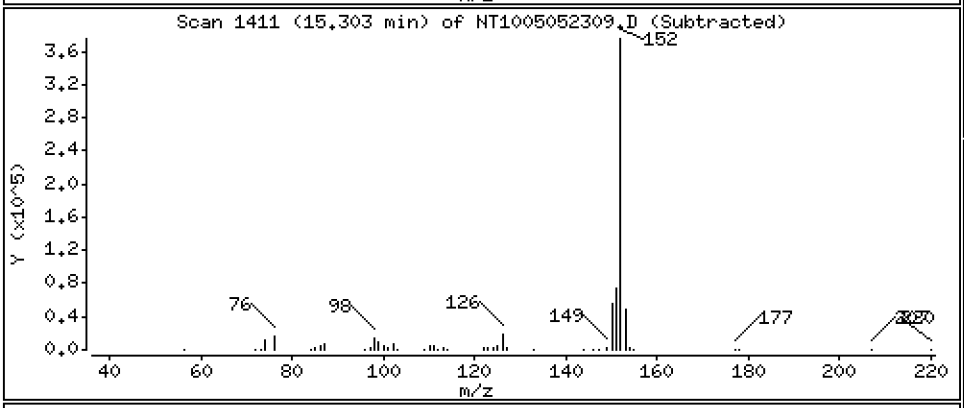
Column diameter: 0.25

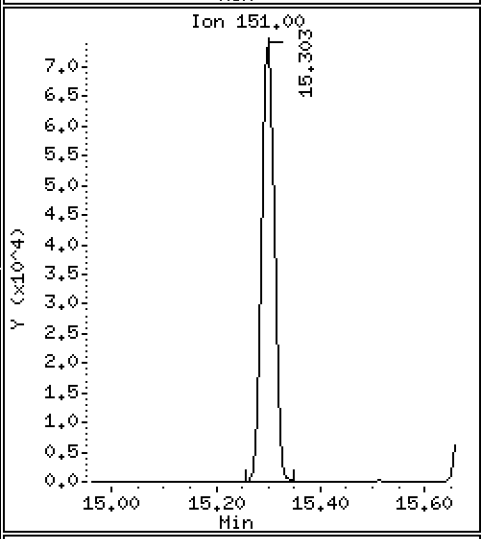
40 Acenaphthylene

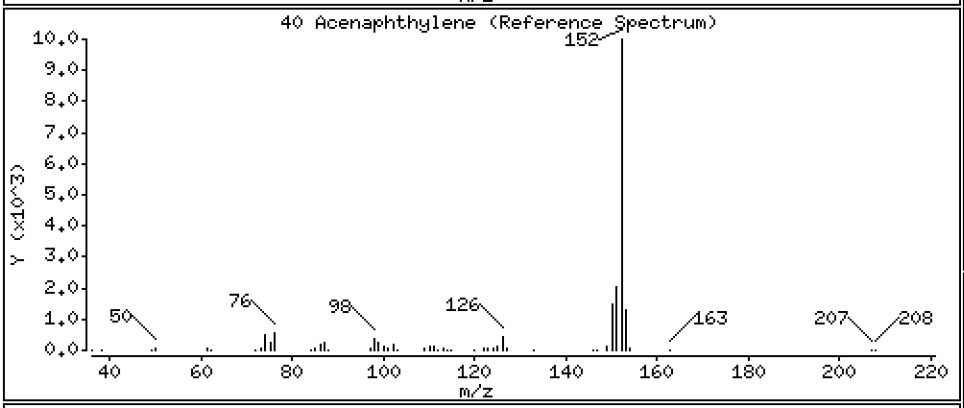
Concentration: 3.436 ug/mL

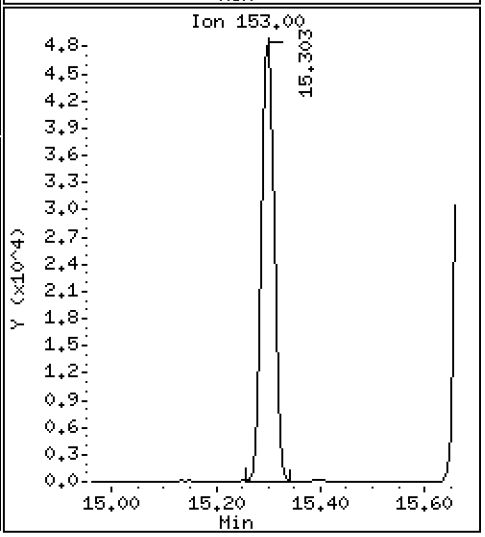


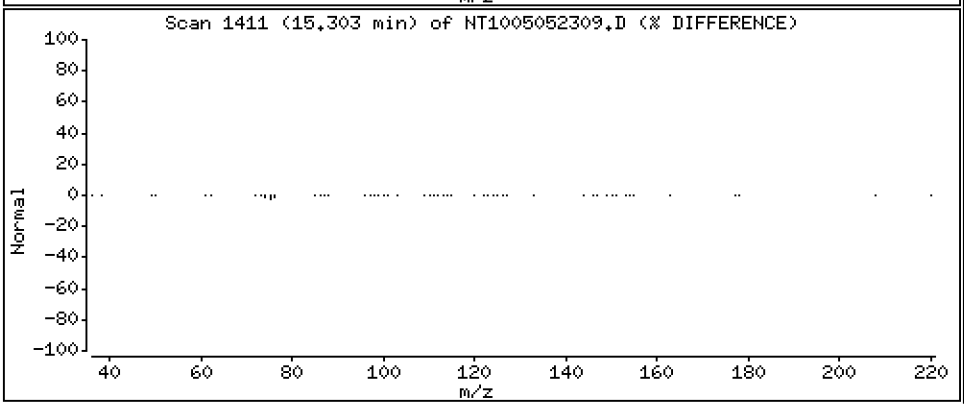












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

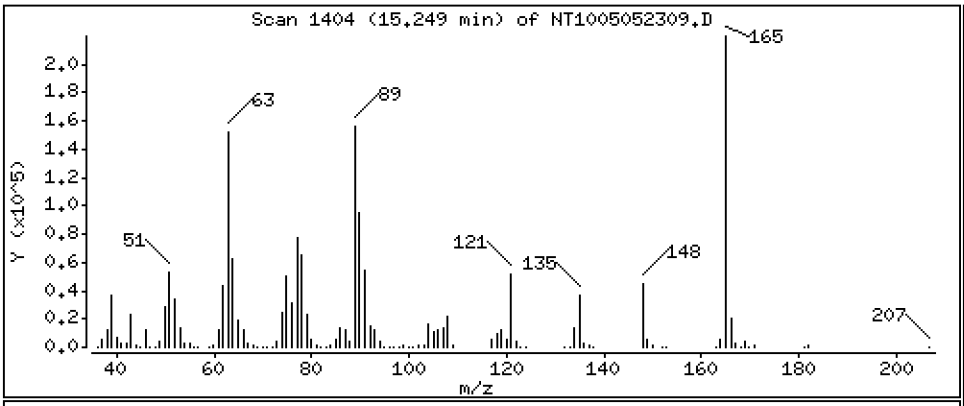
Operator: VTS

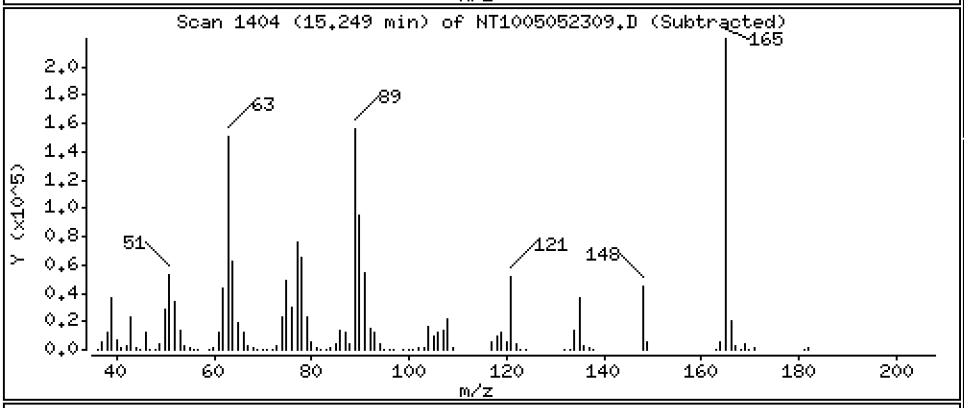
Column phase: ZB-5msi

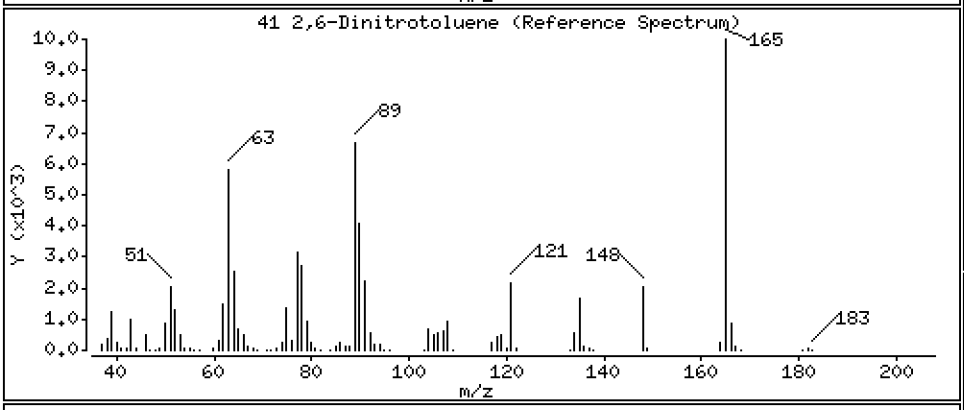
Column diameter: 0.25

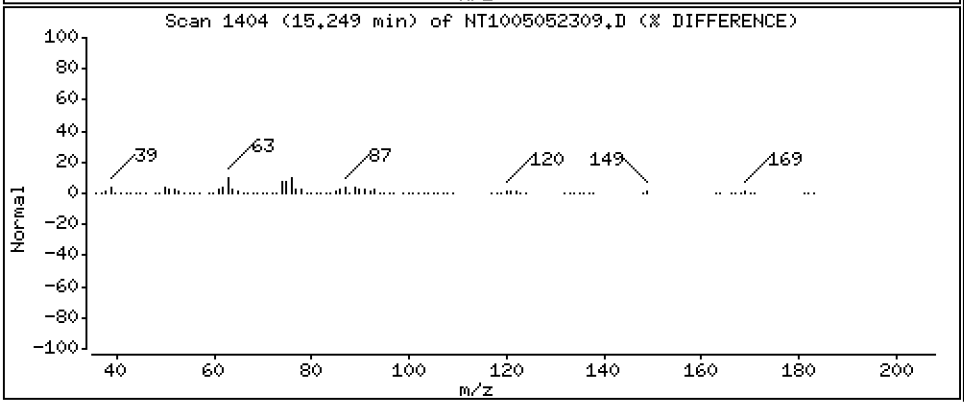
41 2,6-Dinitrotoluene

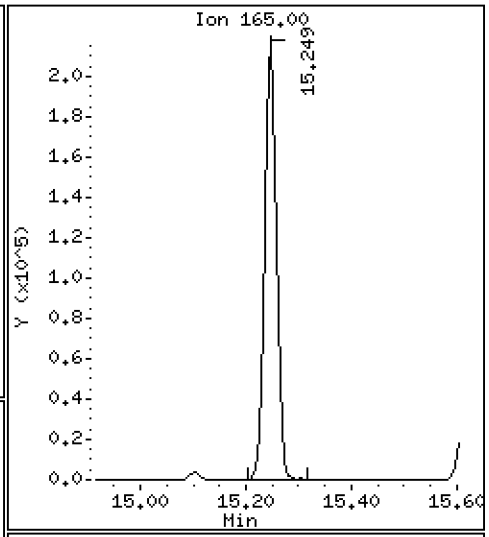
Concentration: 11.76 ug/mL

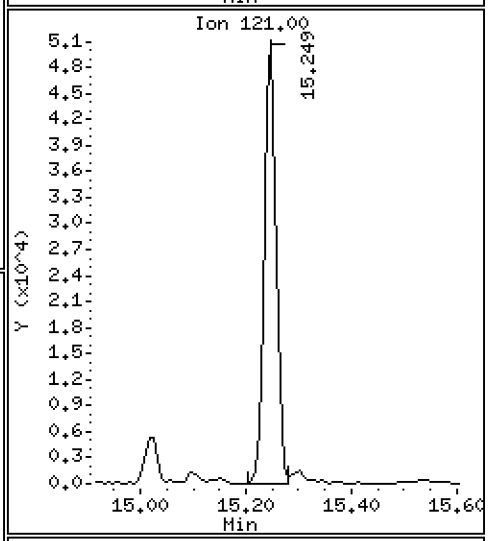


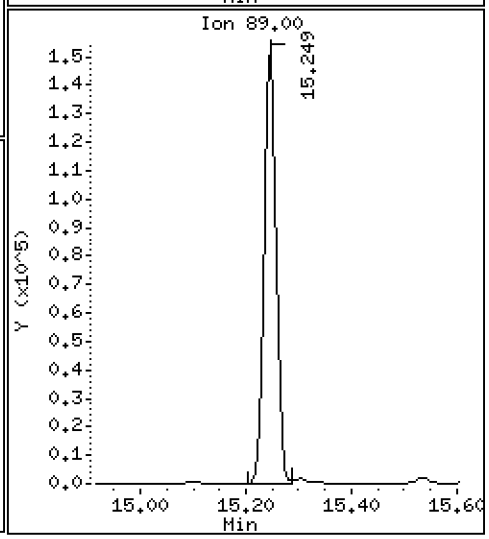












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

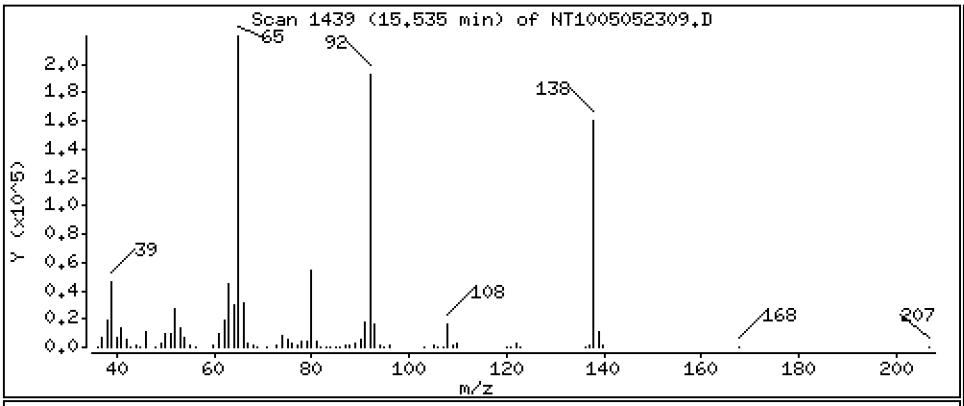
Operator: VTS

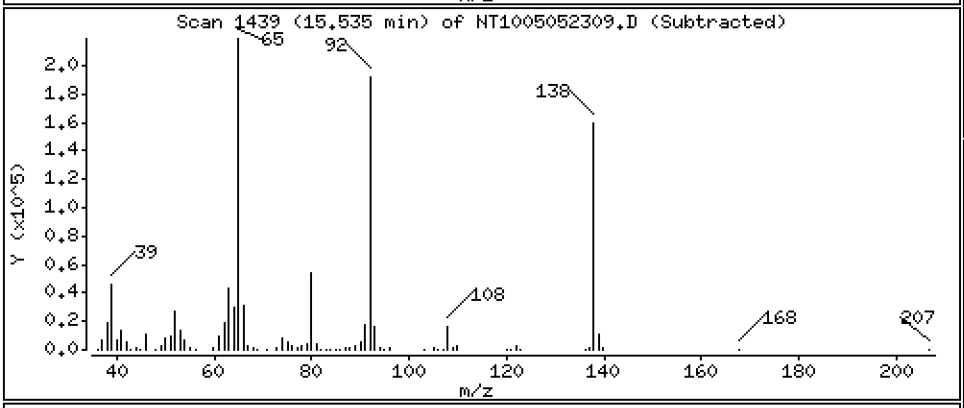
Column phase: ZB-5msi

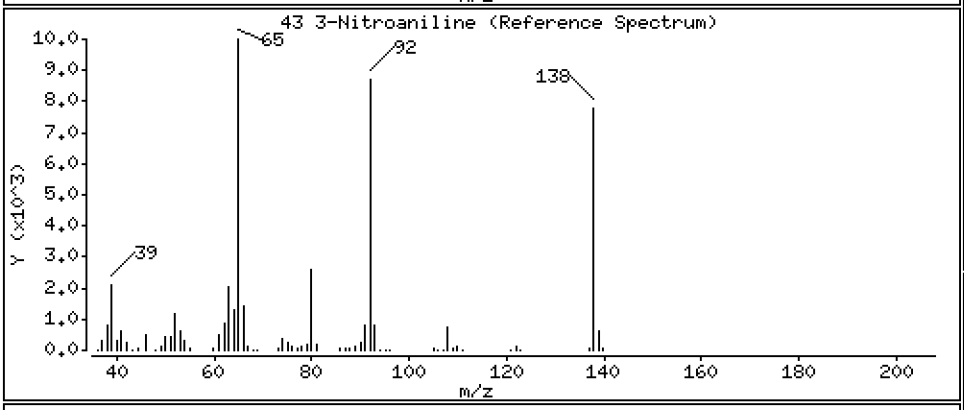
Column diameter: 0.25

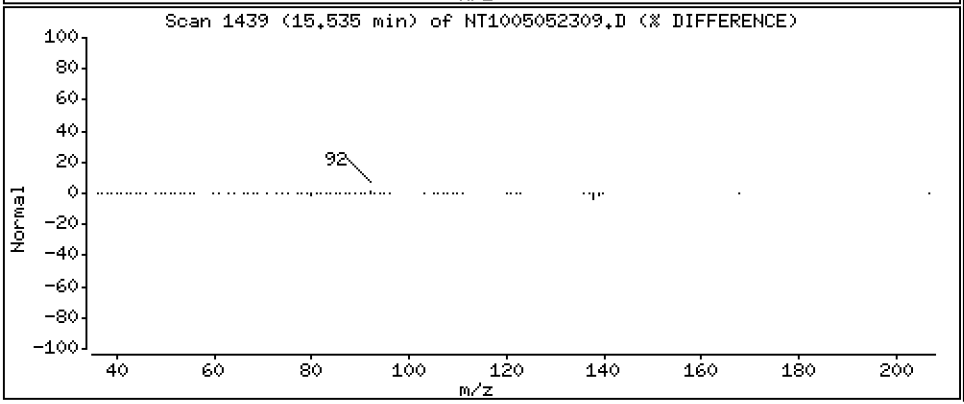
43 3-Nitroaniline

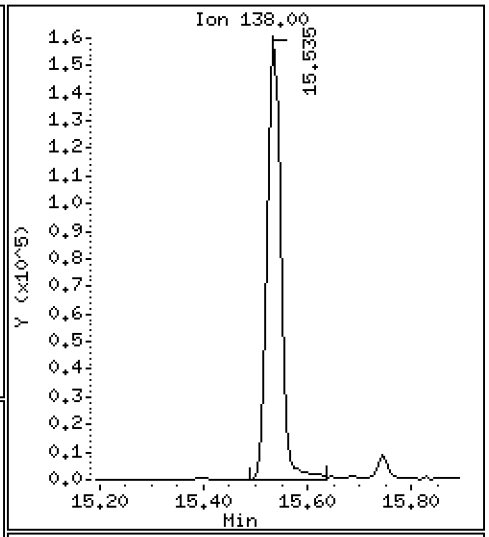
Concentration: 9.955 ug/mL

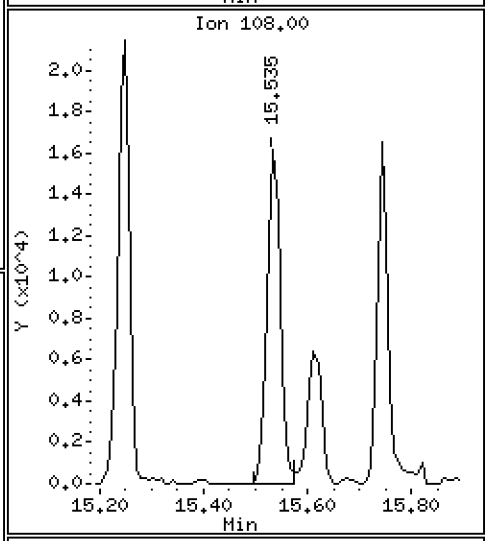


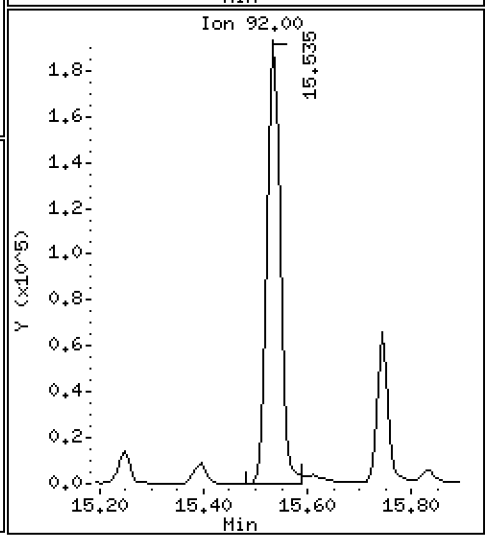












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

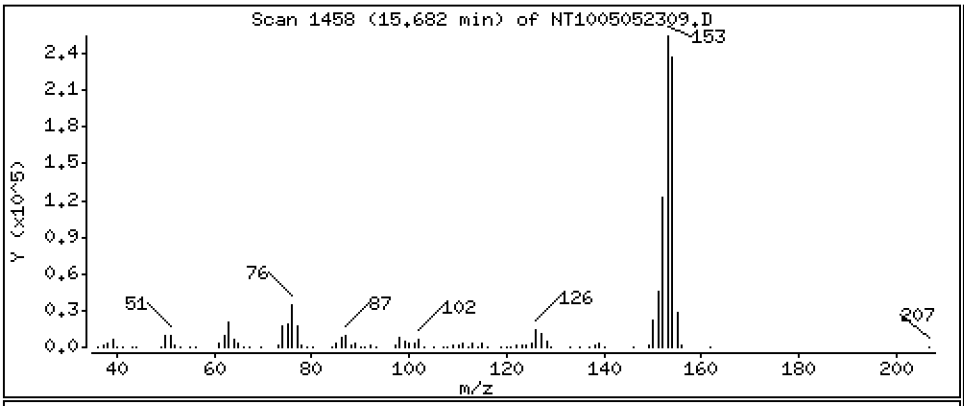
Operator: VTS

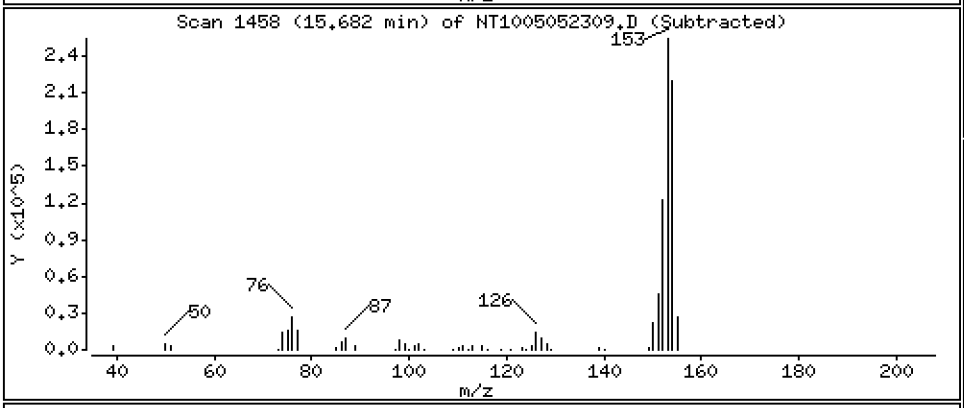
Column phase: ZB-5msi

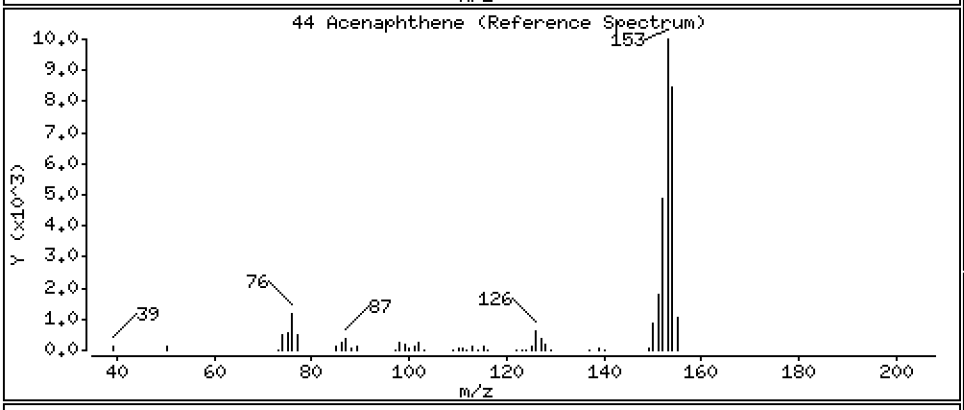
Column diameter: 0.25

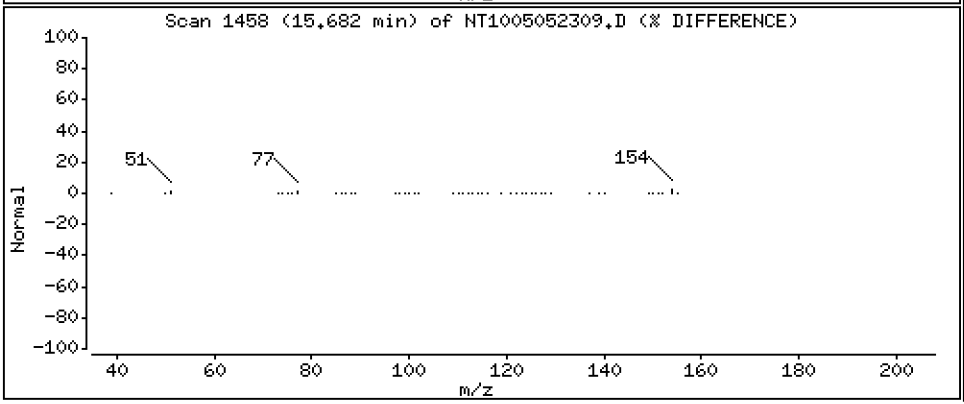
44 Acenaphthene

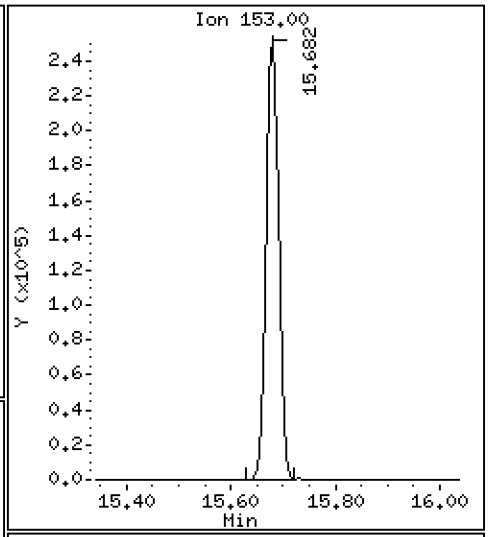
Concentration: 3.601 ug/mL

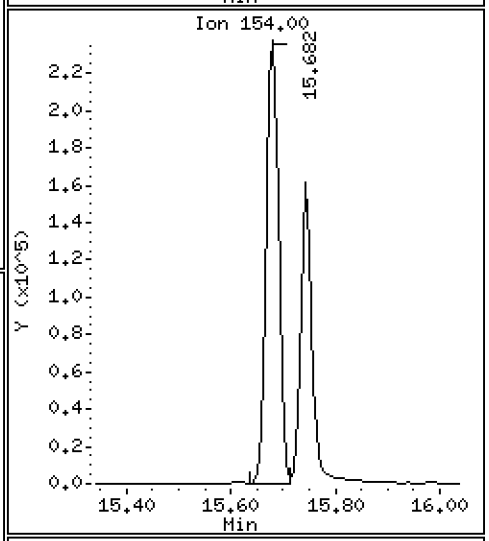


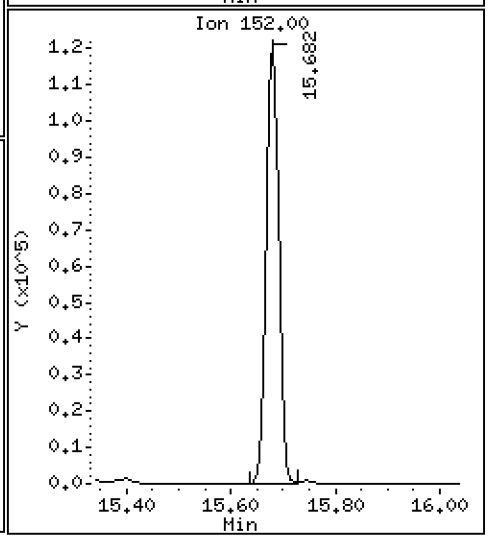












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

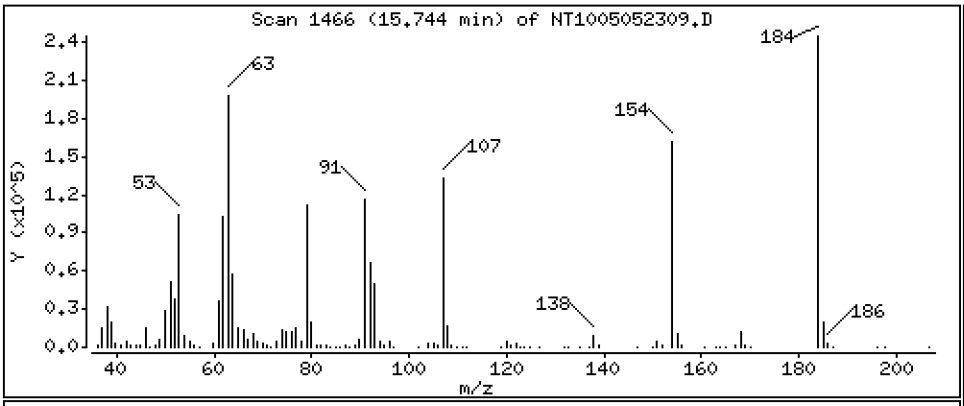
Operator: VTS

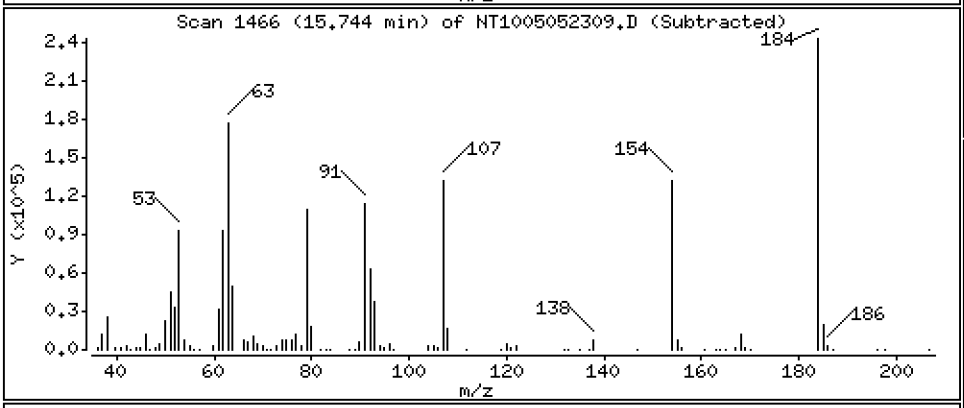
Column phase: ZB-5msi

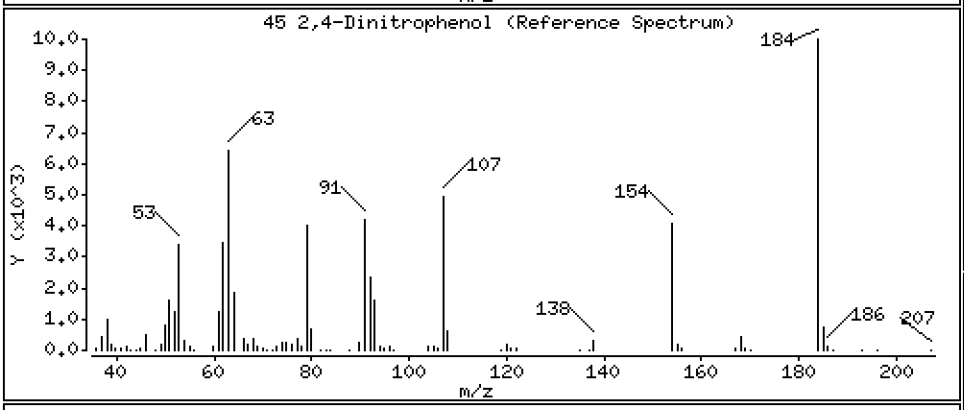
Column diameter: 0.25

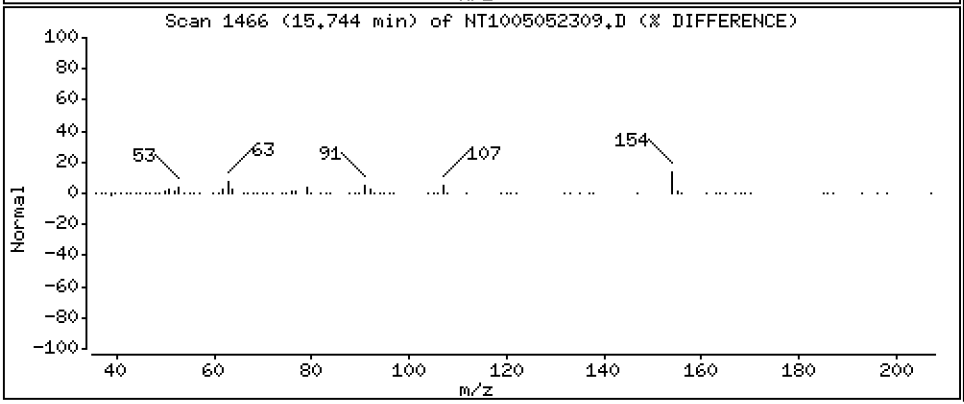
45 2,4-Dinitrophenol

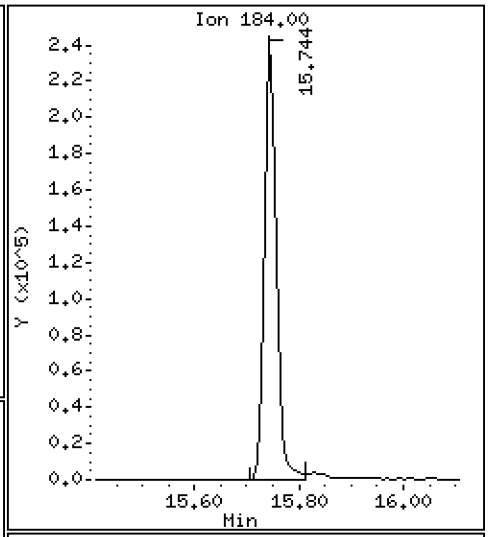
Concentration: 16.52 ug/mL

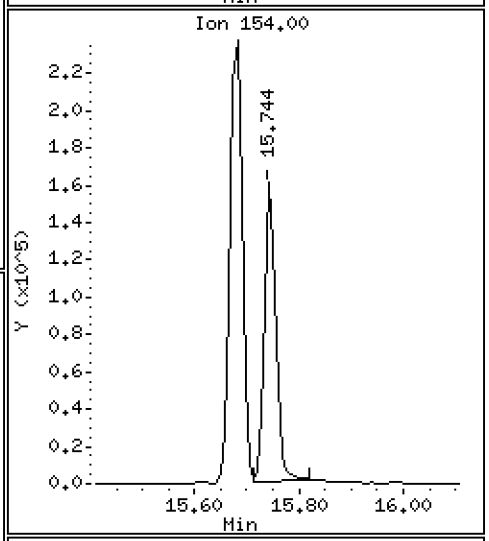


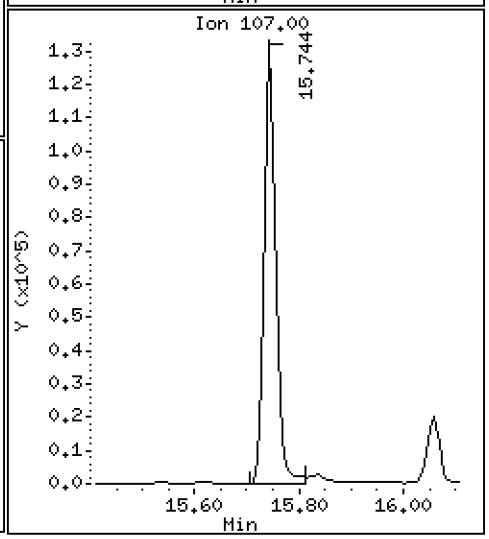












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

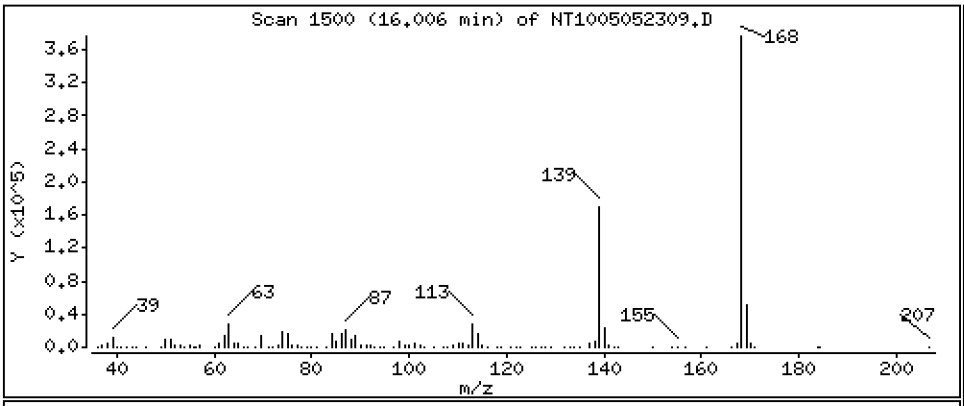
Operator: VTS

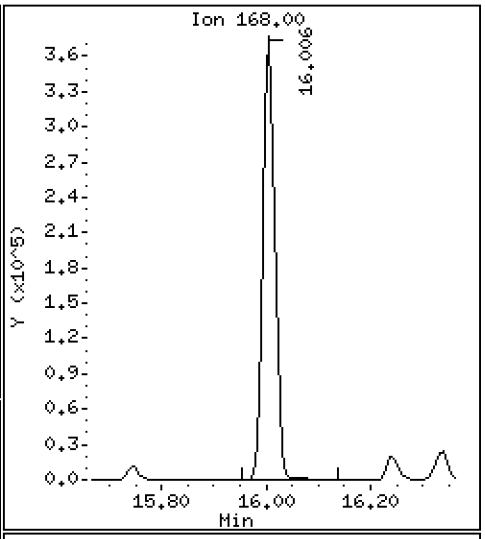
Column phase: ZB-5msi

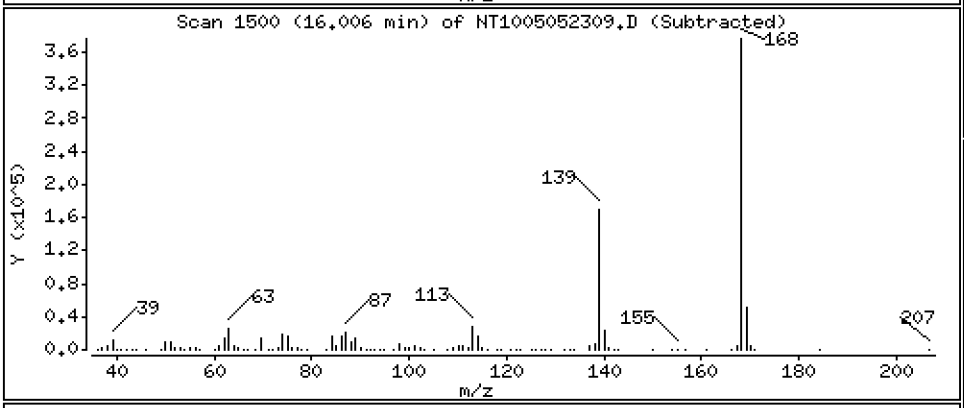
Column diameter: 0.25

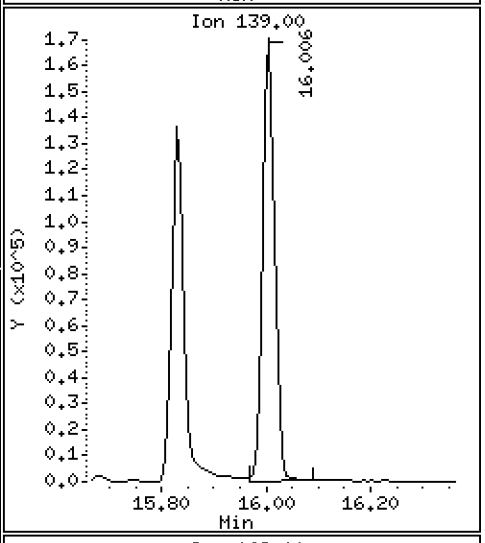
46 Dibenzofuran

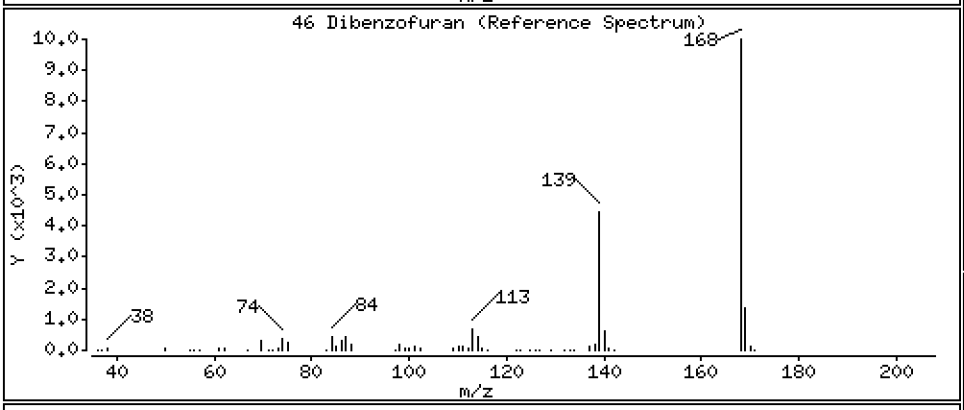
Concentration: 3.649 ug/mL

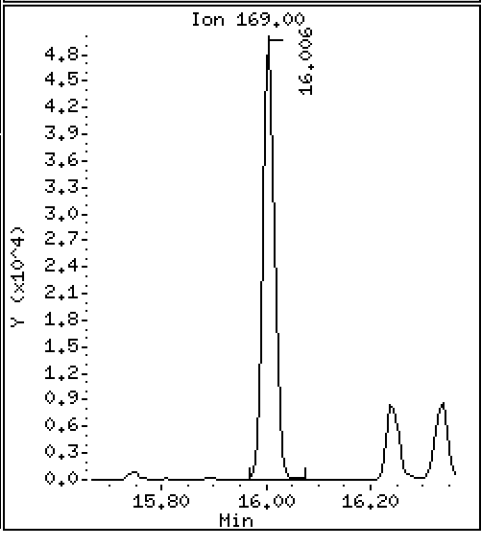


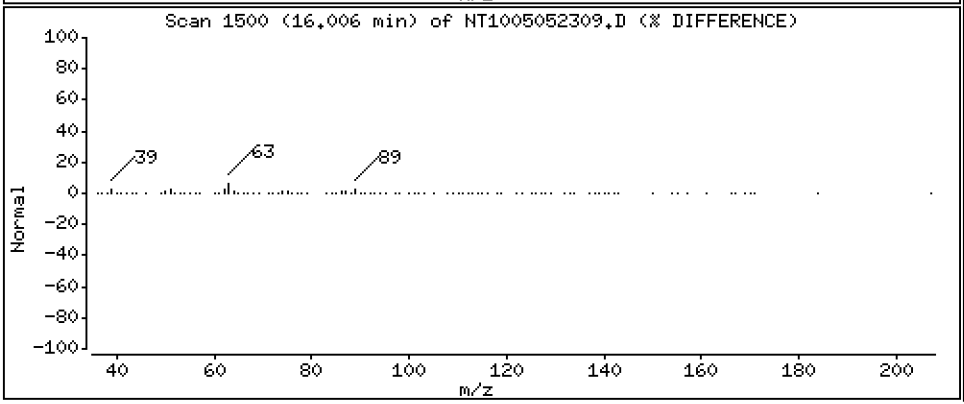












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

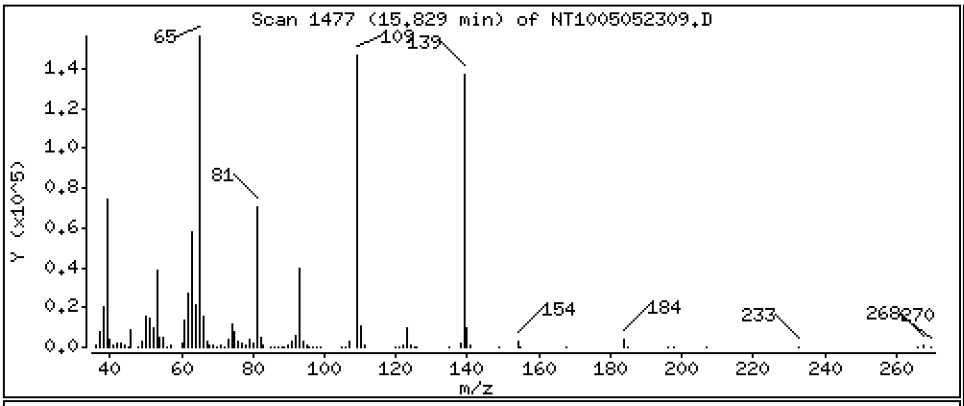
Operator: VTS

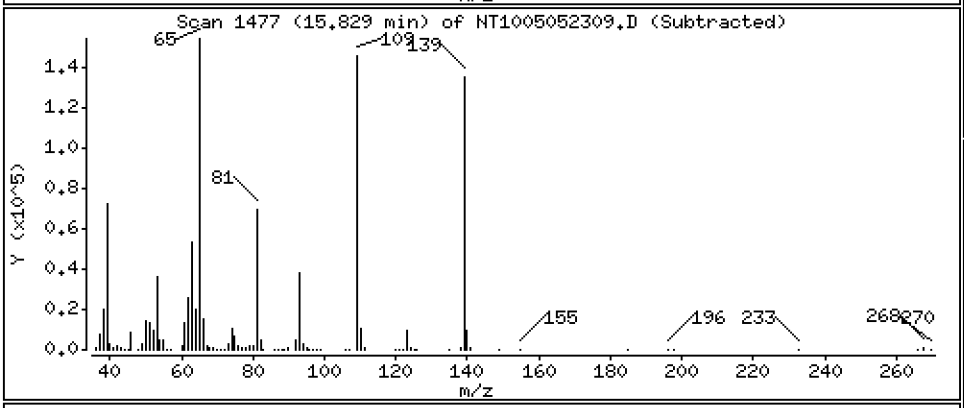
Column phase: ZB-5msi

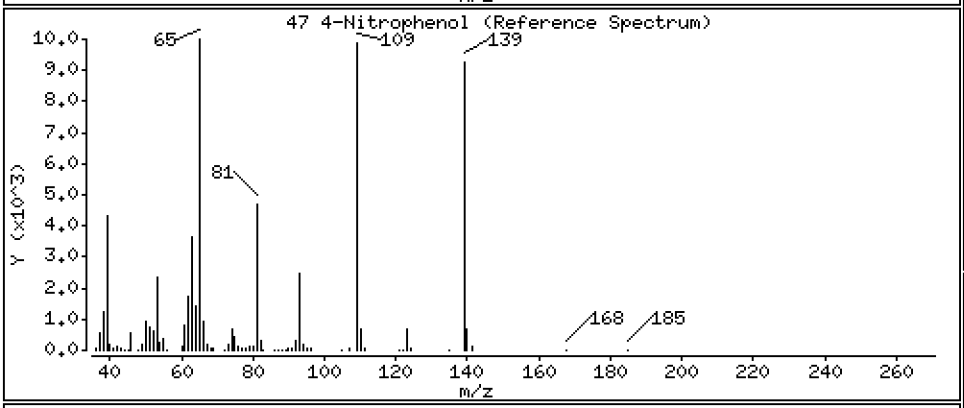
Column diameter: 0.25

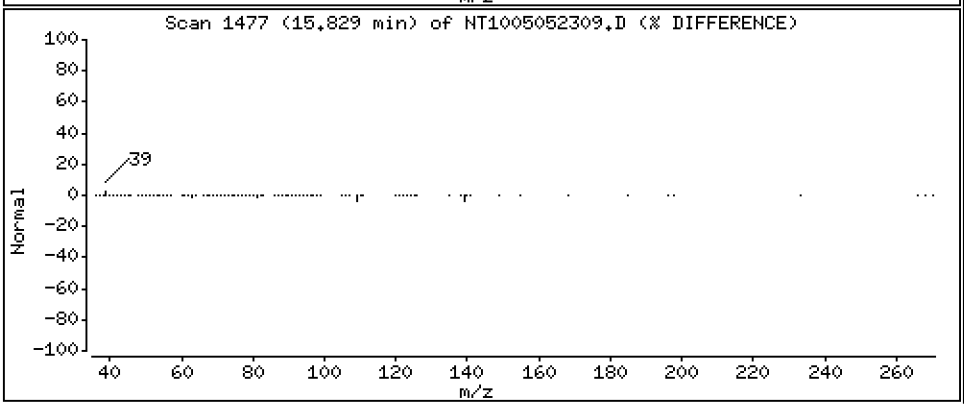
47 4-Nitrophenol

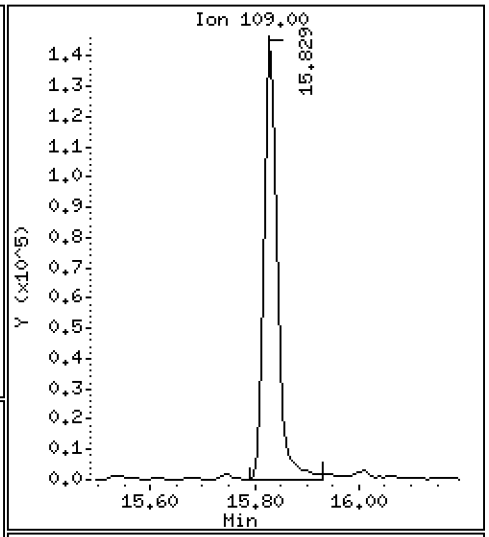
Concentration: 9.579 ug/mL

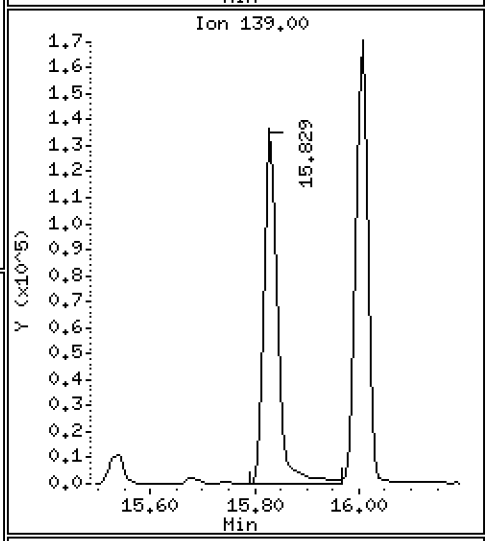


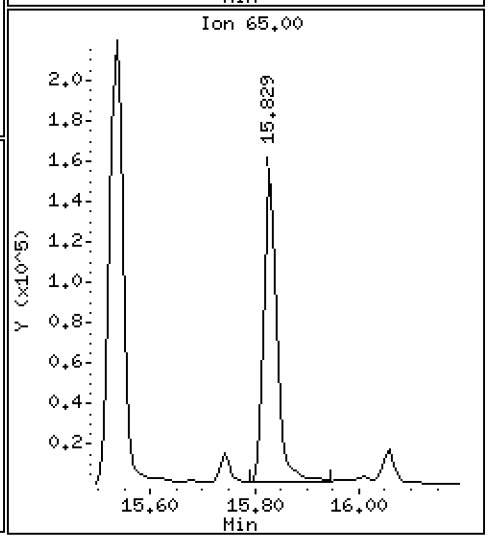












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

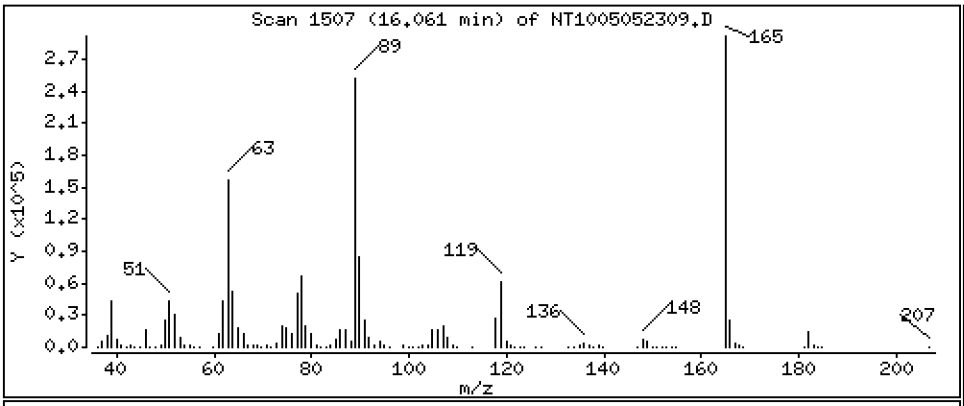
Operator: VTS

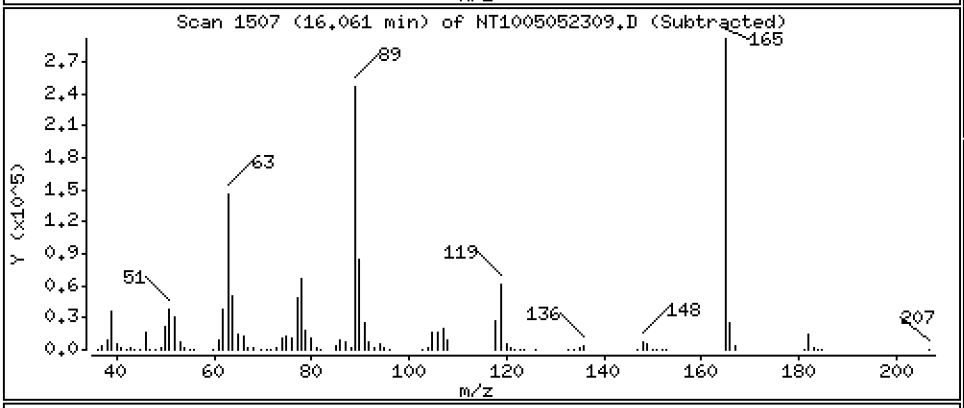
Column phase: ZB-5msi

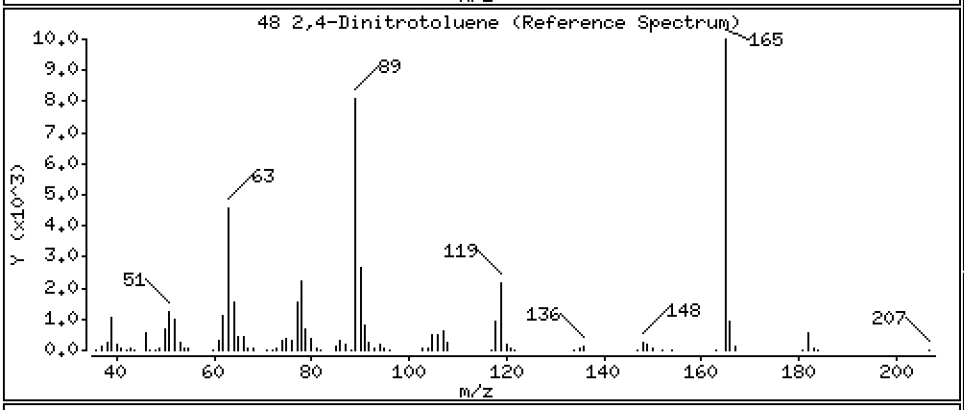
Column diameter: 0.25

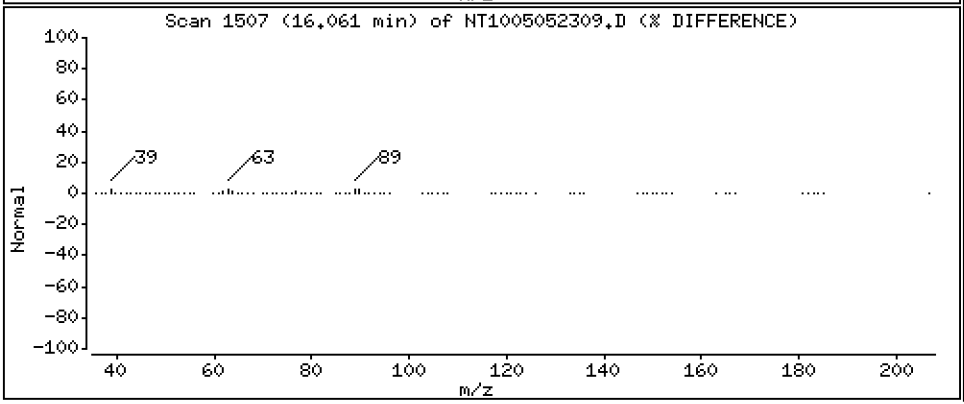
48 2,4-Dinitrotoluene

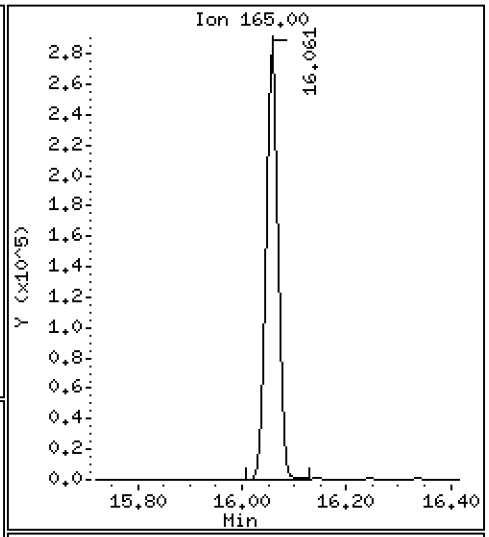
Concentration: 11.04 ug/mL

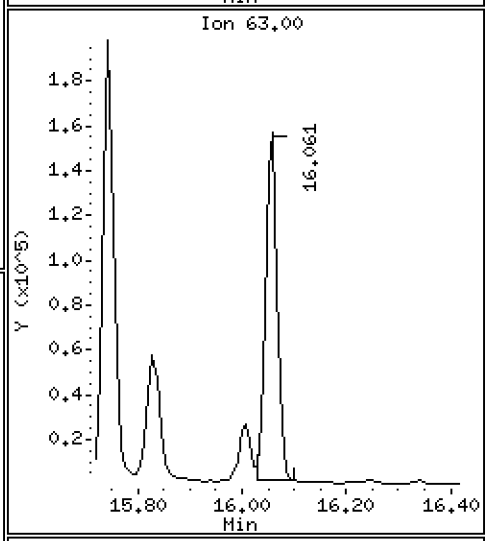


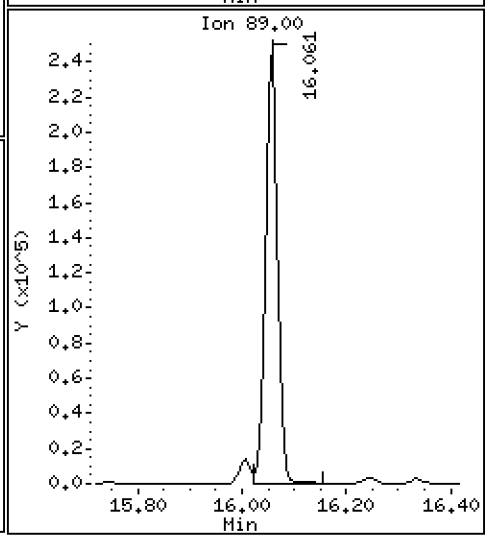












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

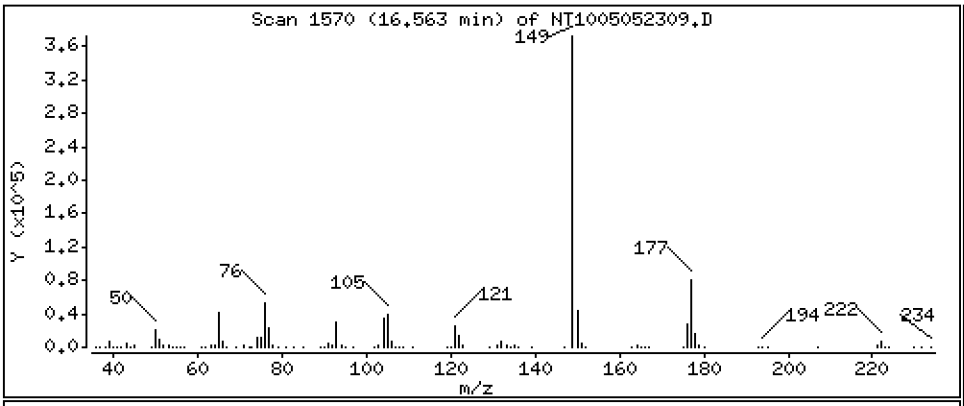
Operator: VTS

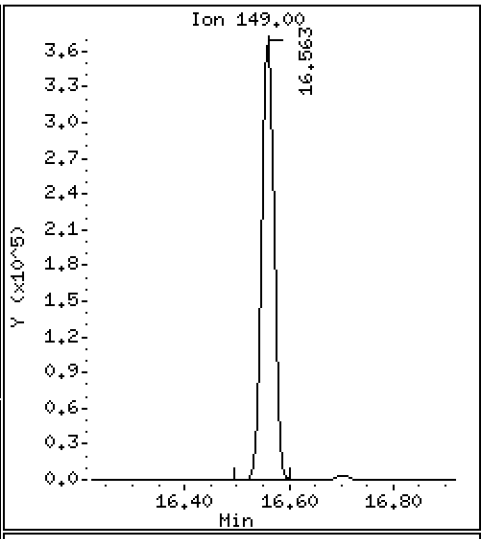
Column phase: ZB-5msi

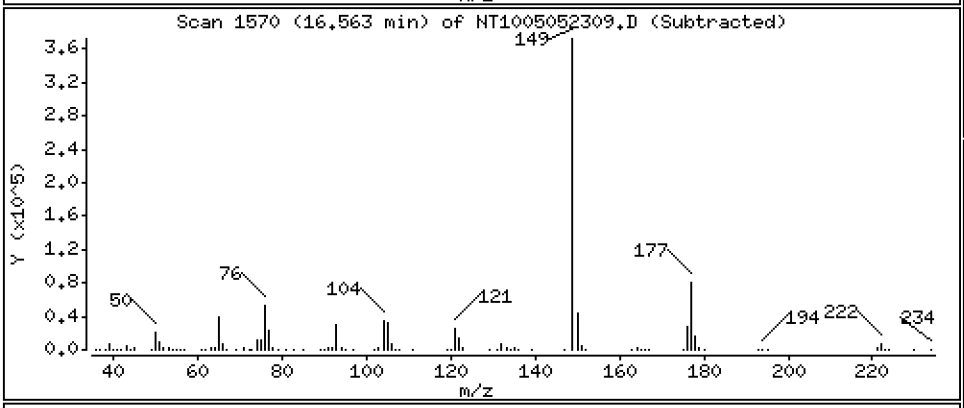
Column diameter: 0.25

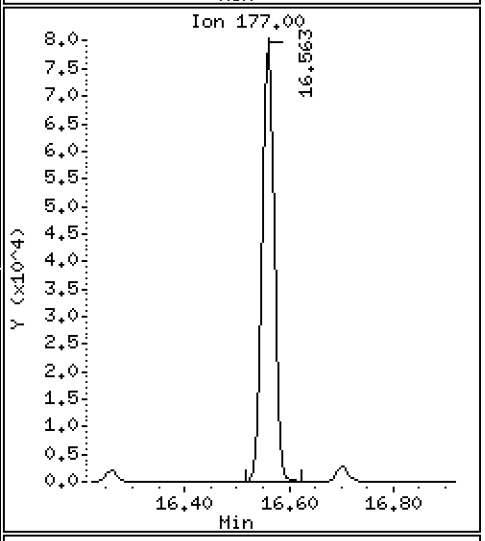
50 Diethylphthalate

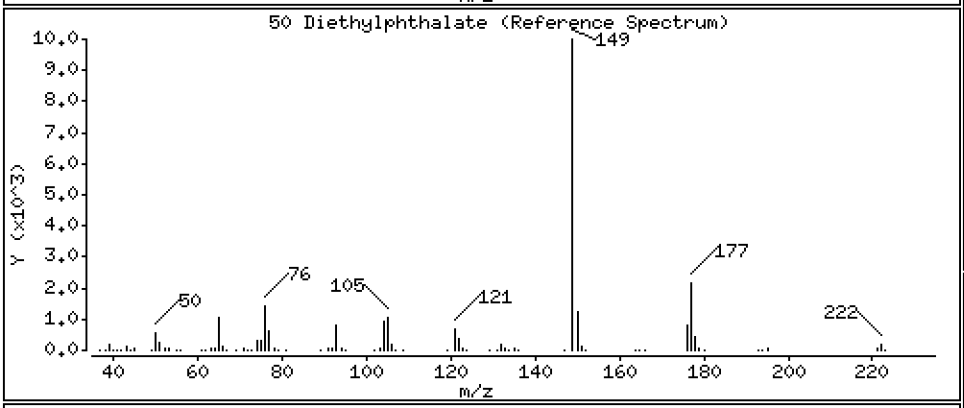
Concentration: 5.173 ug/mL

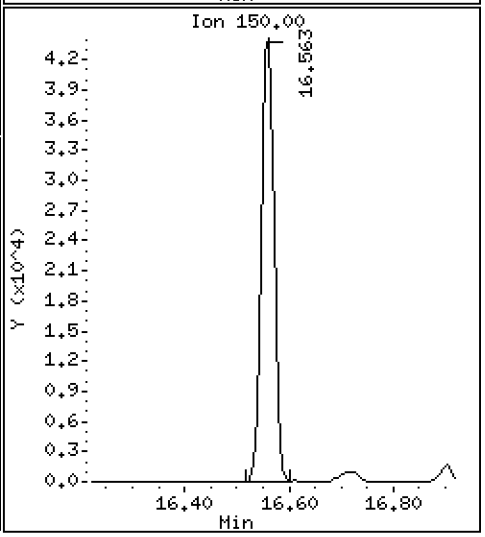


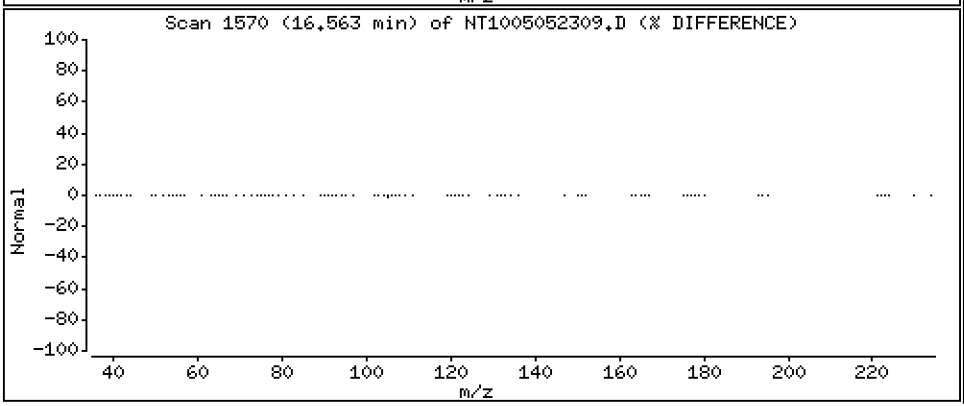












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

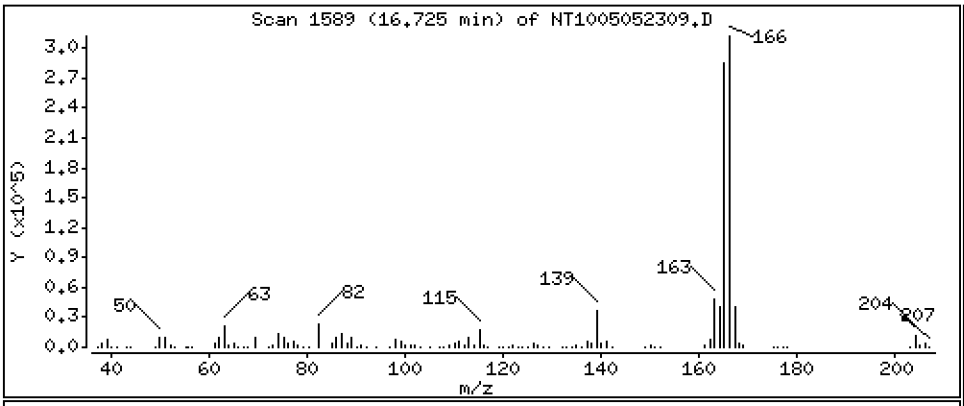
Operator: VTS

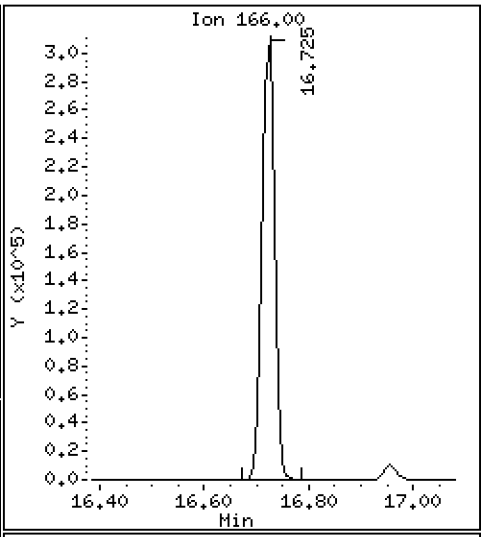
Column phase: ZB-5msi

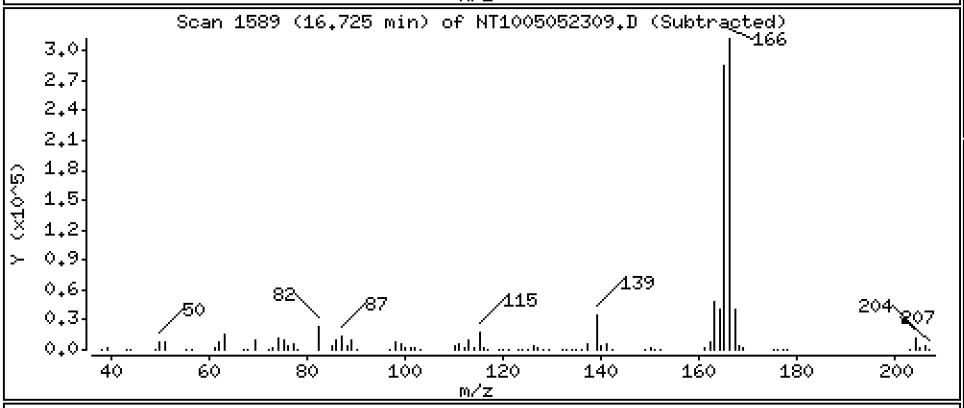
Column diameter: 0.25

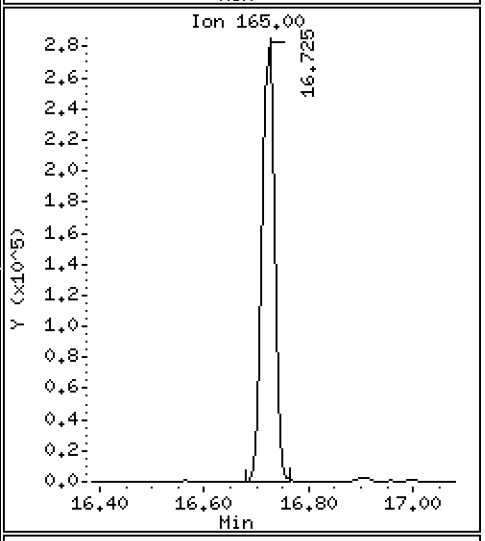
49 Fluorene

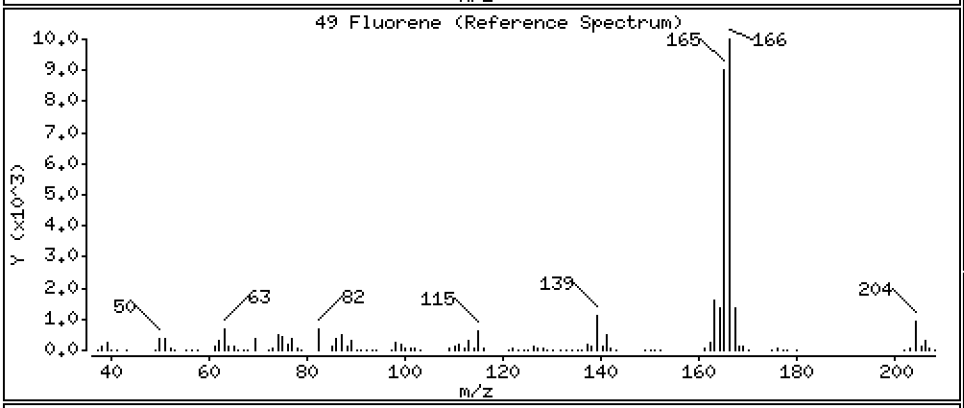
Concentration: 3.668 ug/mL

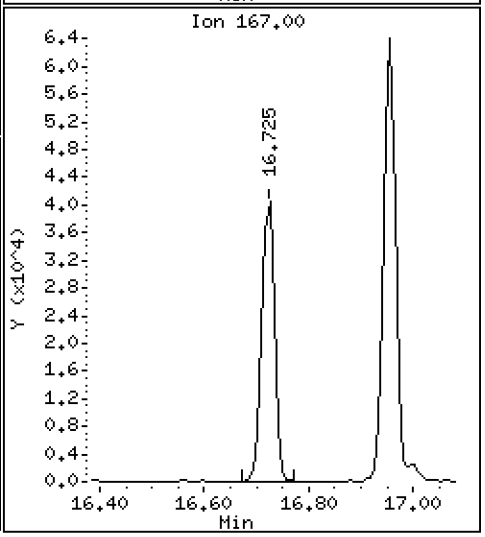


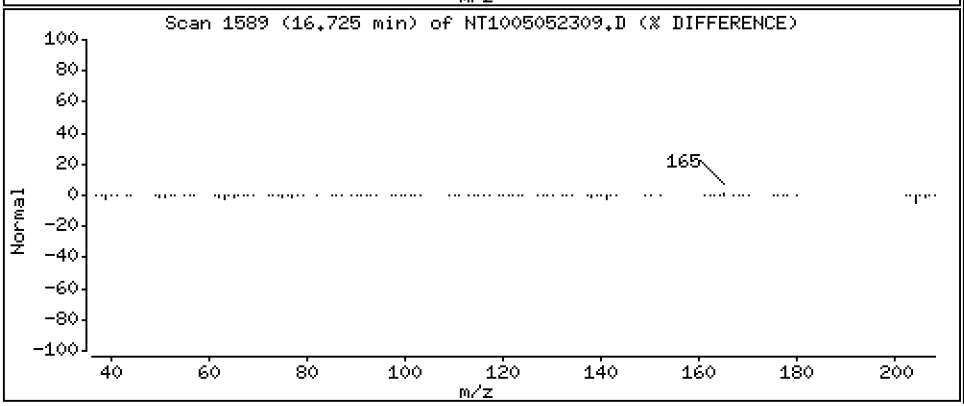












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

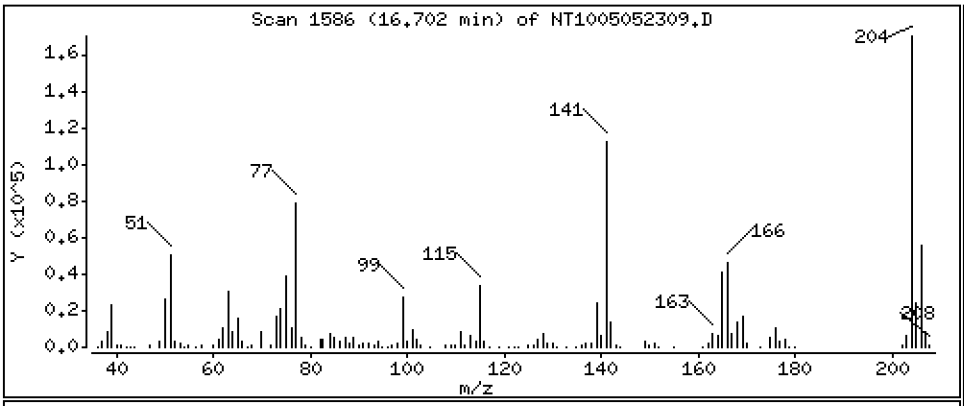
Operator: VTS

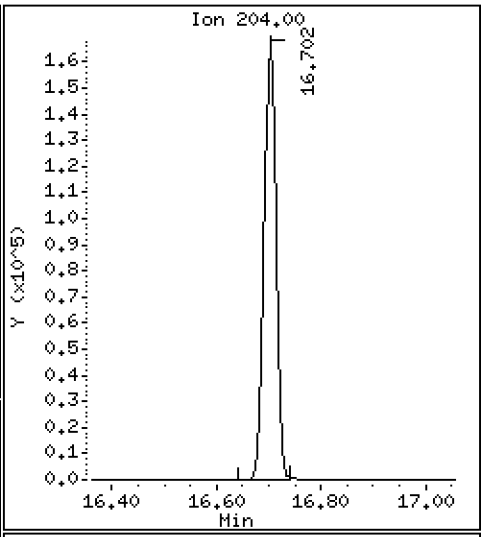
Column phase: ZB-5msi

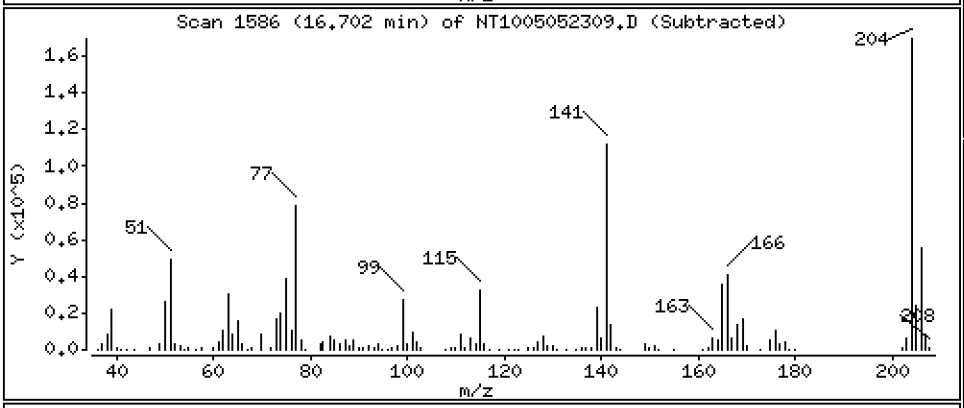
Column diameter: 0.25

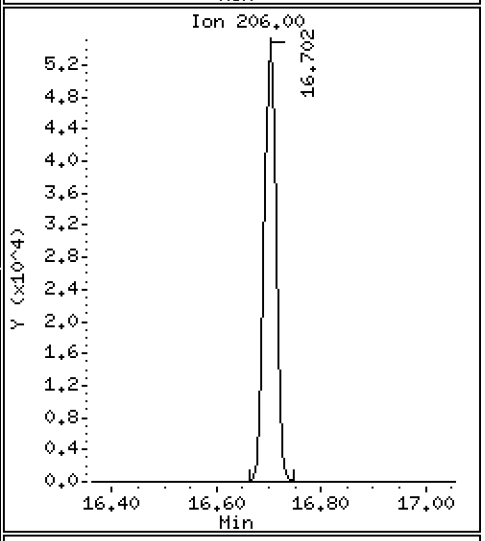
51 4-Chlorophenyl-phenylether

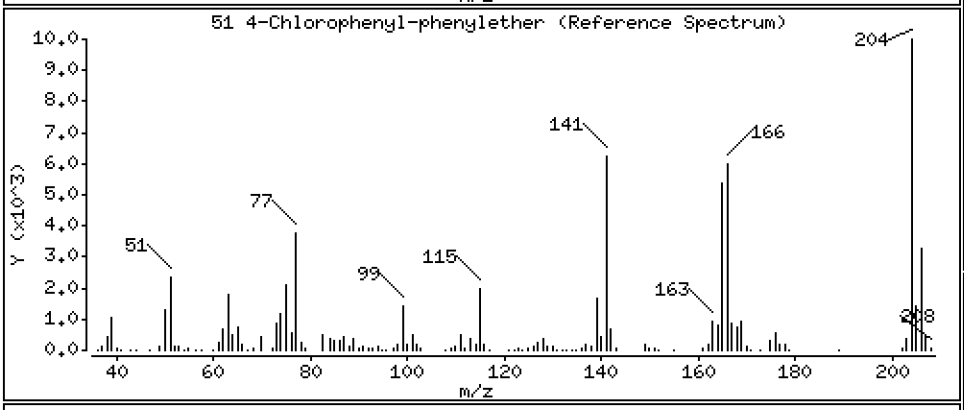
Concentration: 4.462 ug/mL

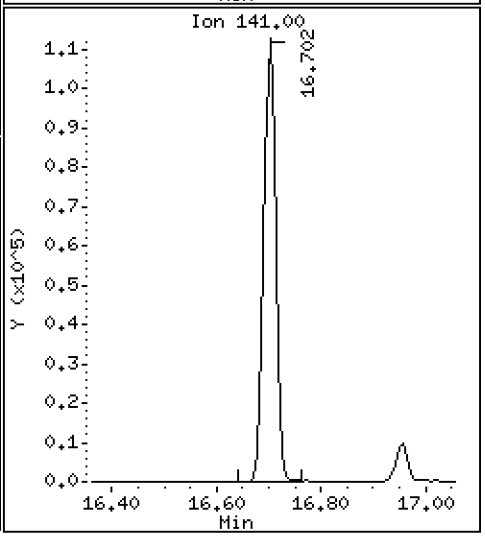


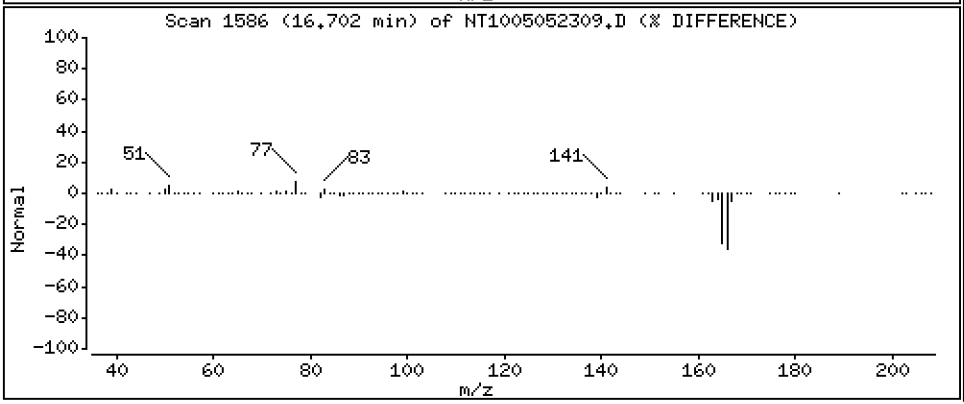












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

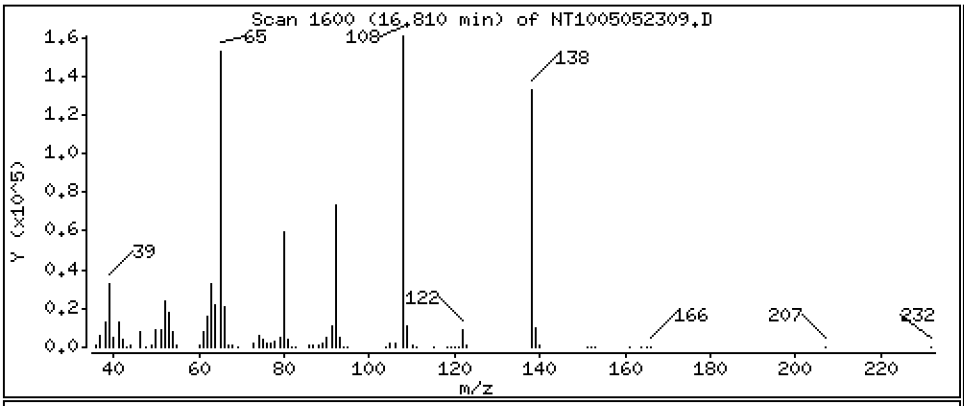
Operator: VTS

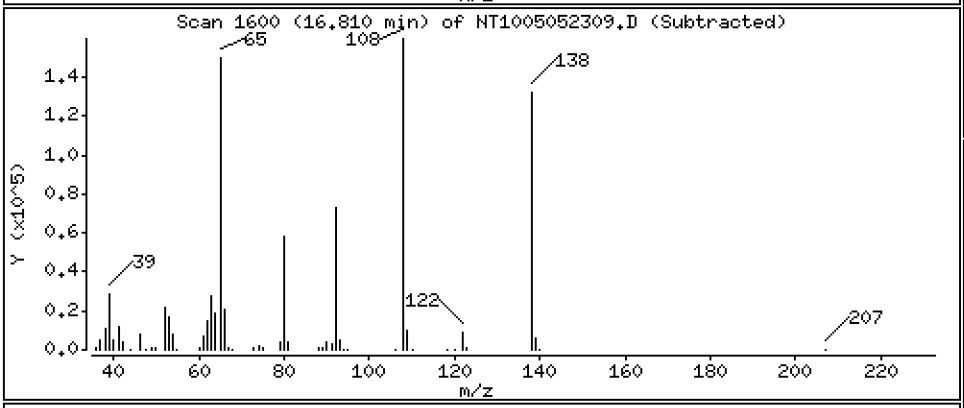
Column phase: ZB-5msi

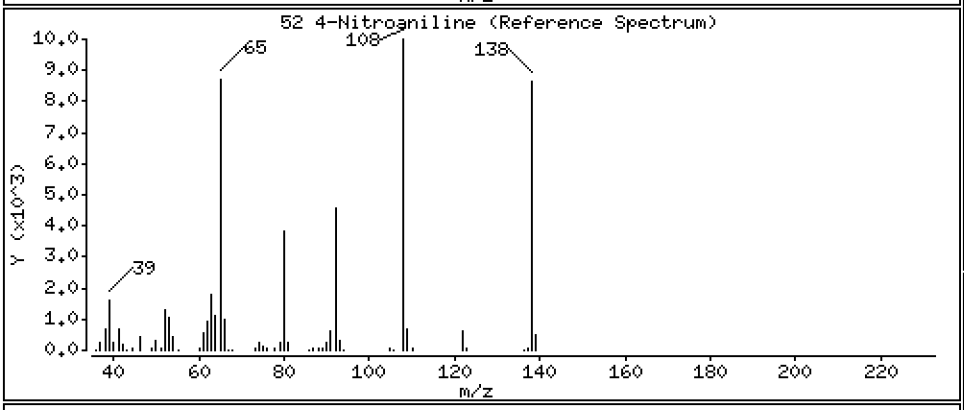
Column diameter: 0.25

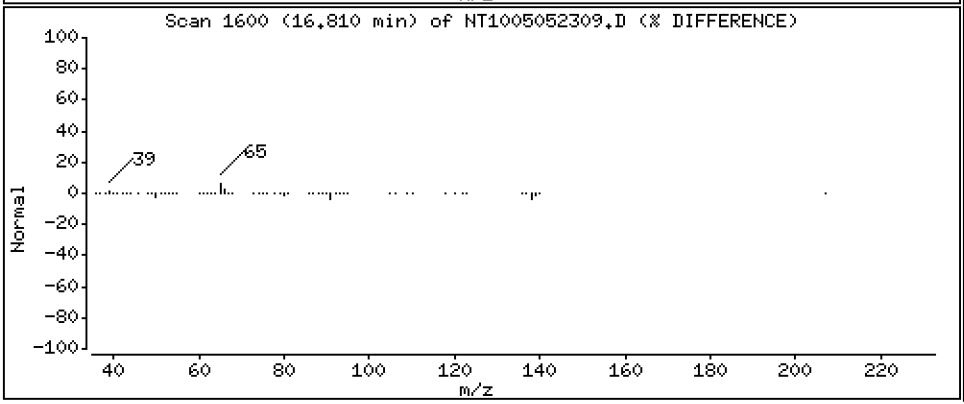
52 4-Nitroaniline

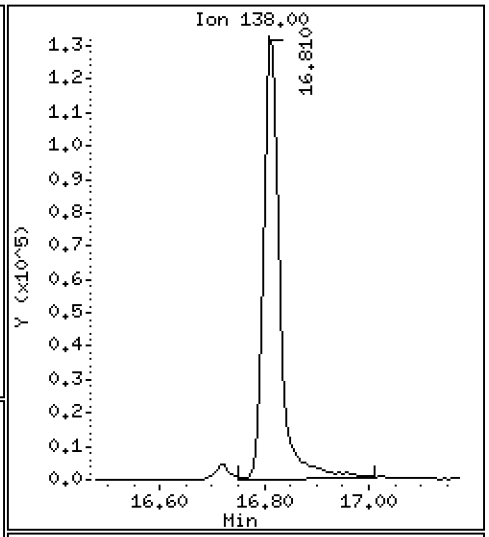
Concentration: 10.12 ug/mL

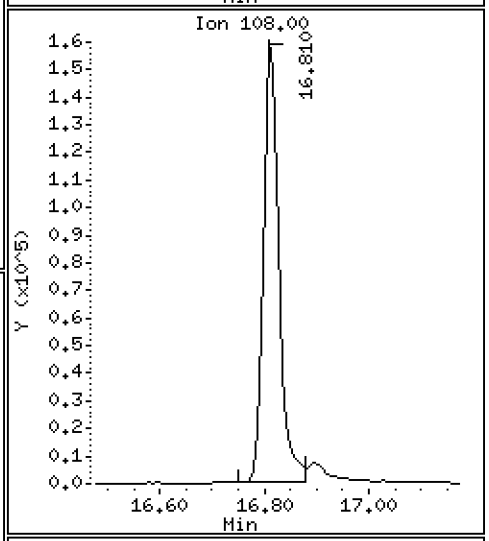


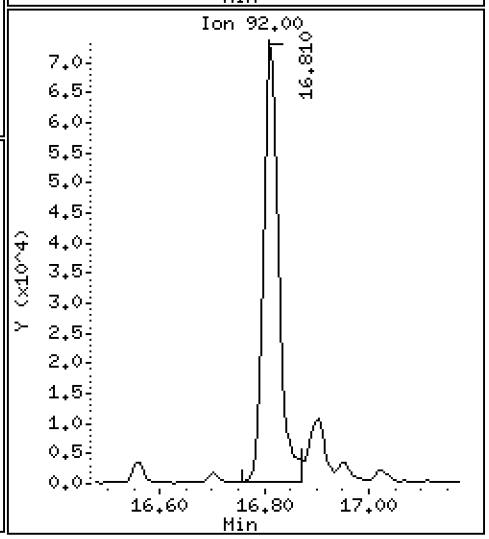












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

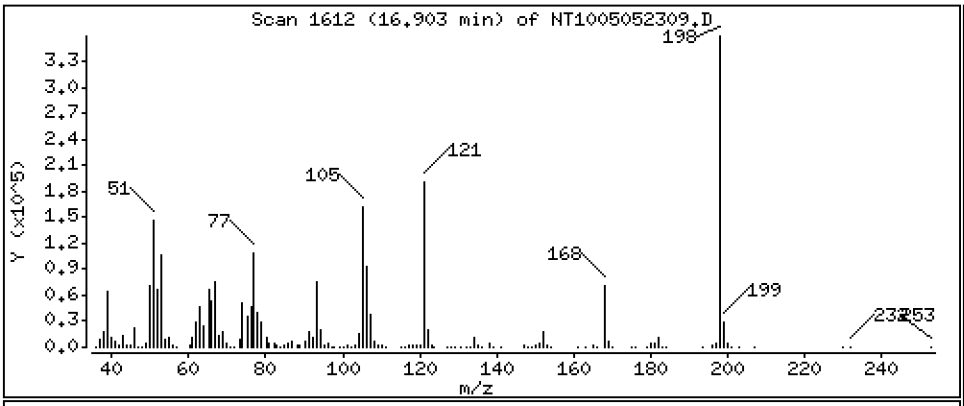
Operator: VTS

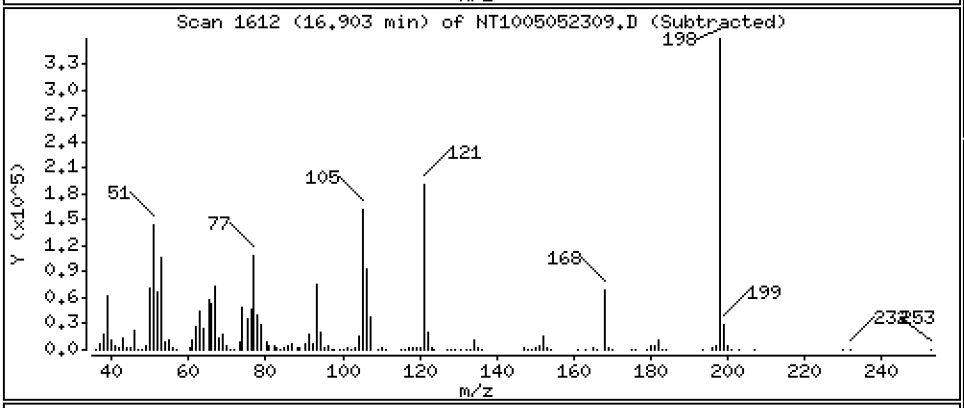
Column phase: ZB-5msi

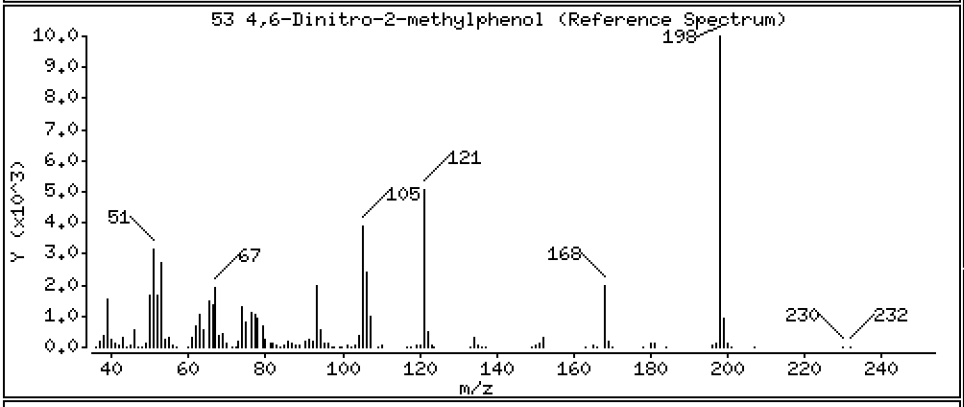
Column diameter: 0.25

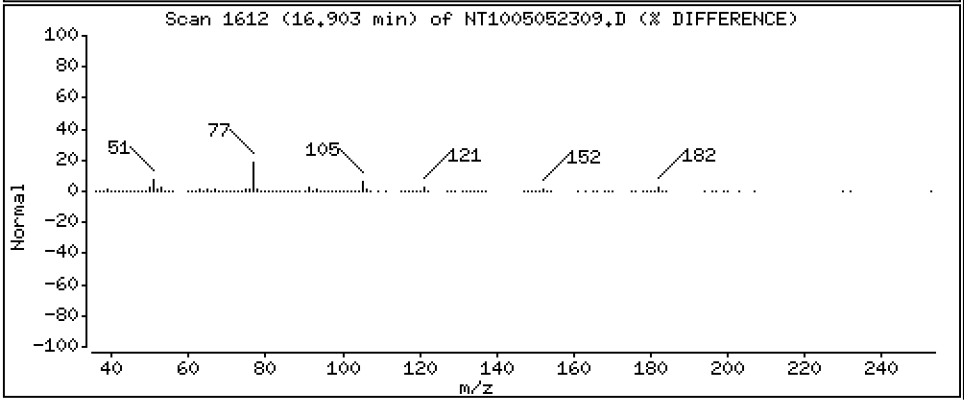
53 4,6-Dinitro-2-methylphenol

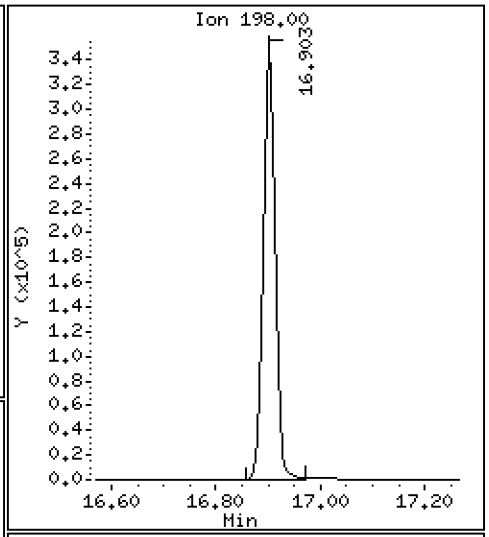
Concentration: 22.53 ug/mL

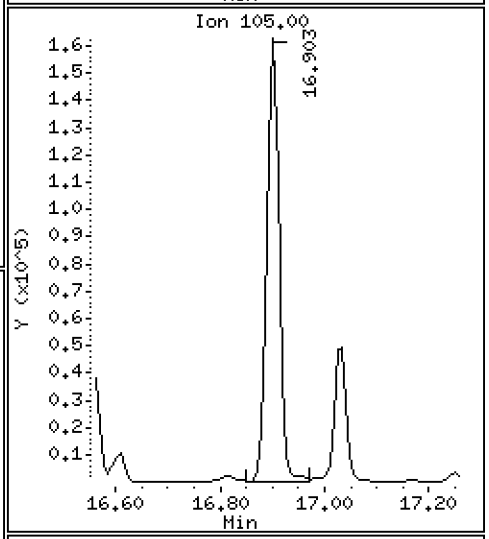


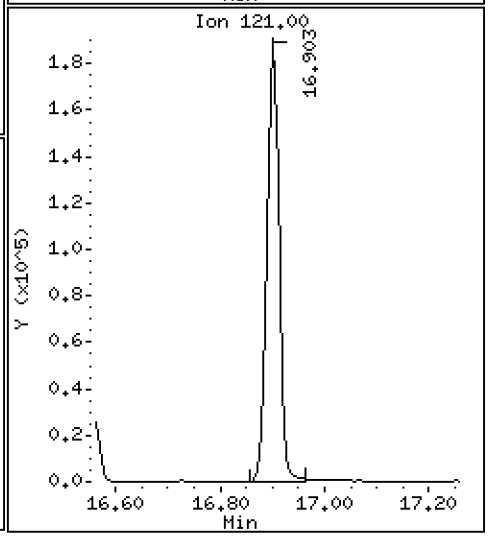












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

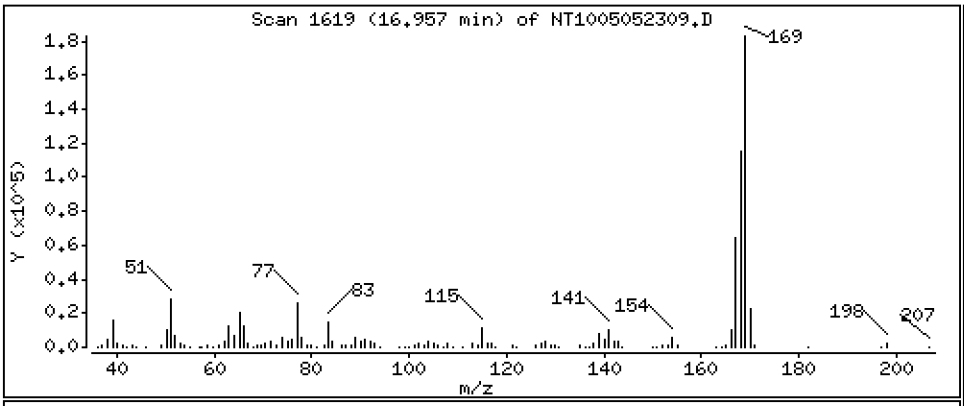
Operator: VTS

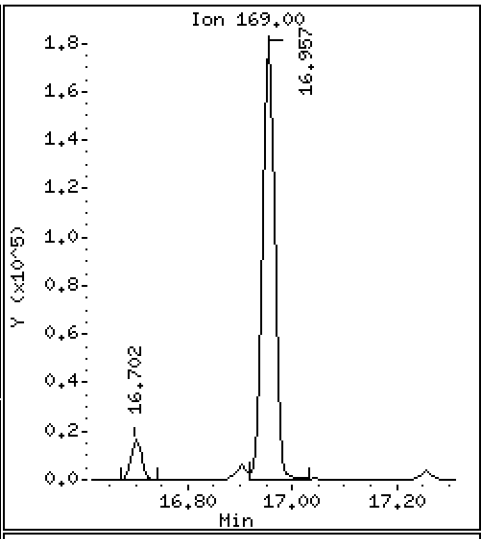
Column phase: ZB-5msi

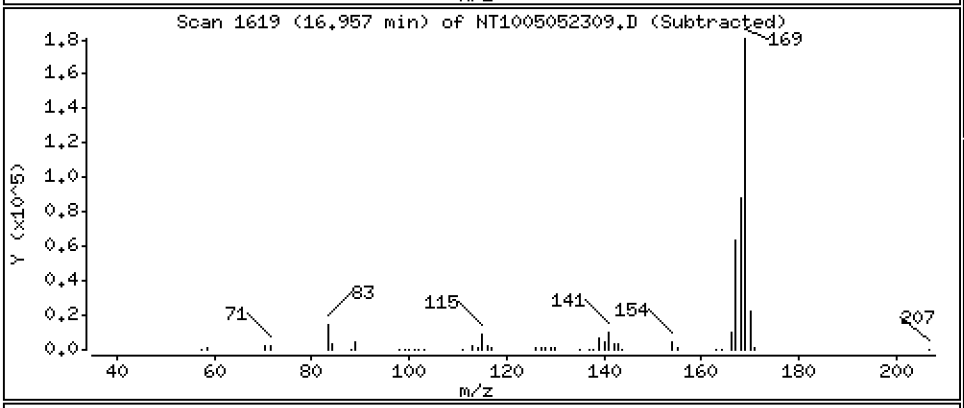
Column diameter: 0.25

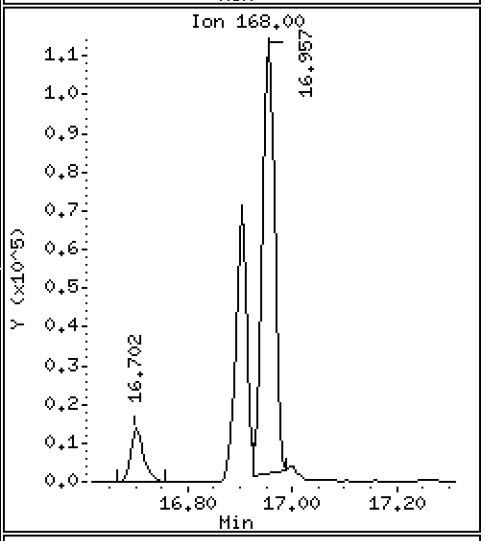
54 N-Nitrosodiphenylamine

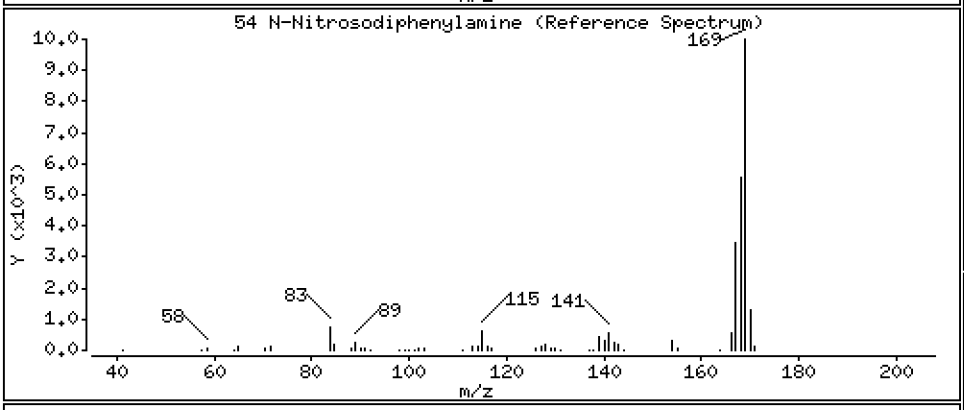
Concentration: 3.552 ug/mL

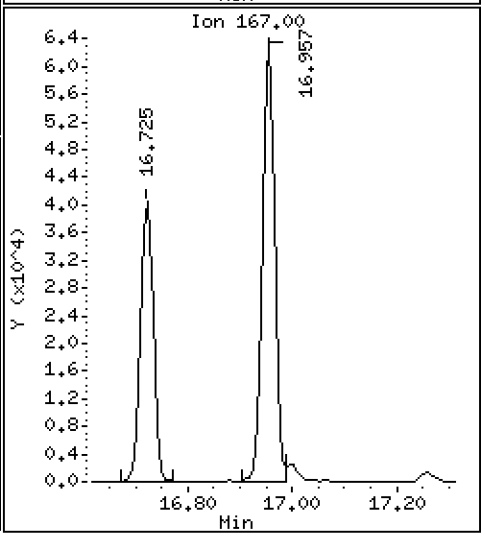


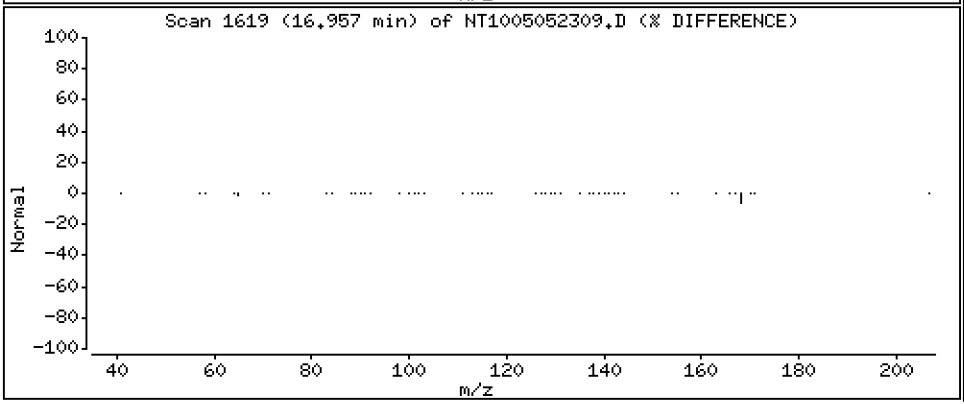












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

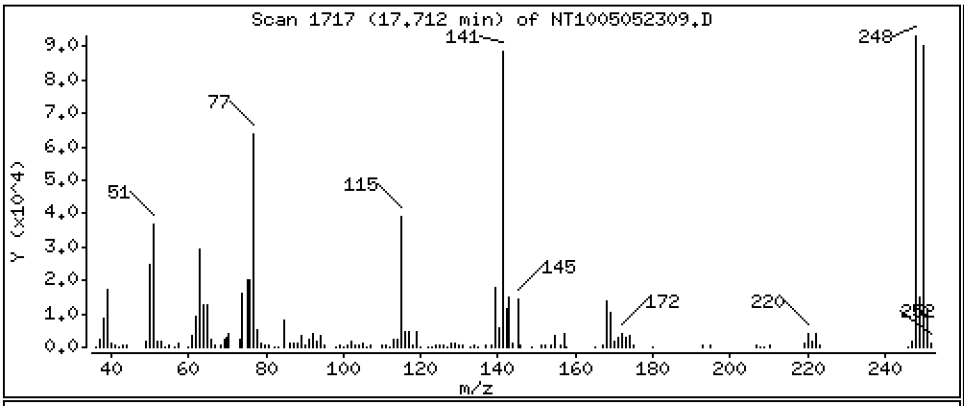
Operator: VTS

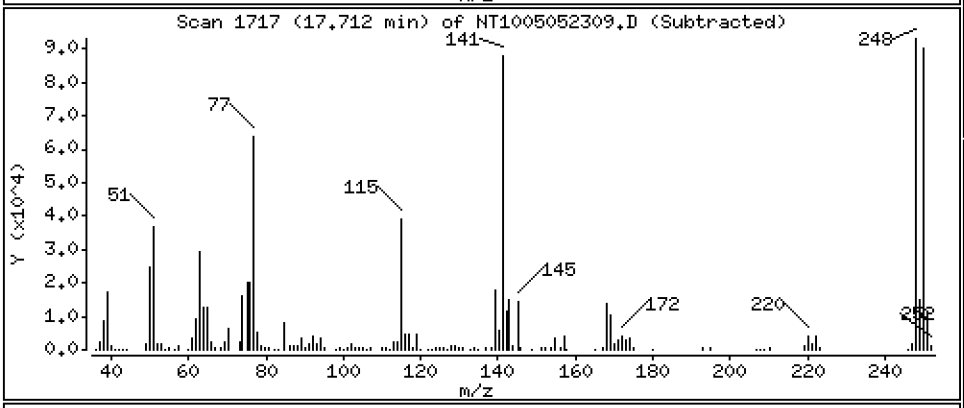
Column phase: ZB-5msi

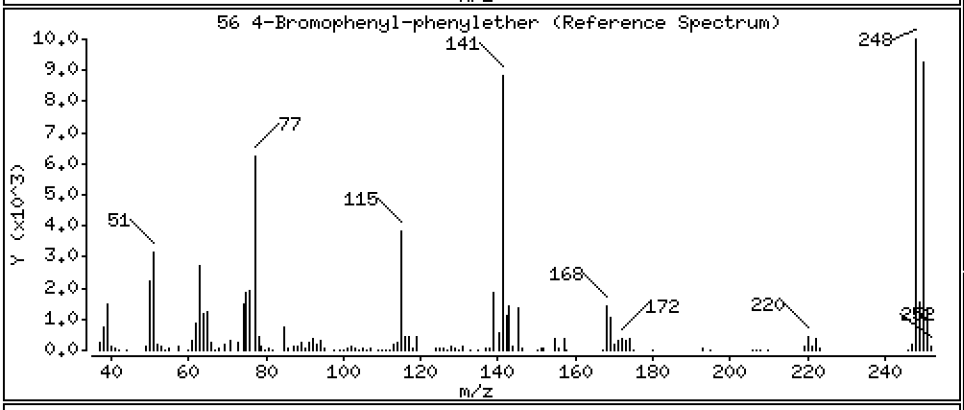
Column diameter: 0.25

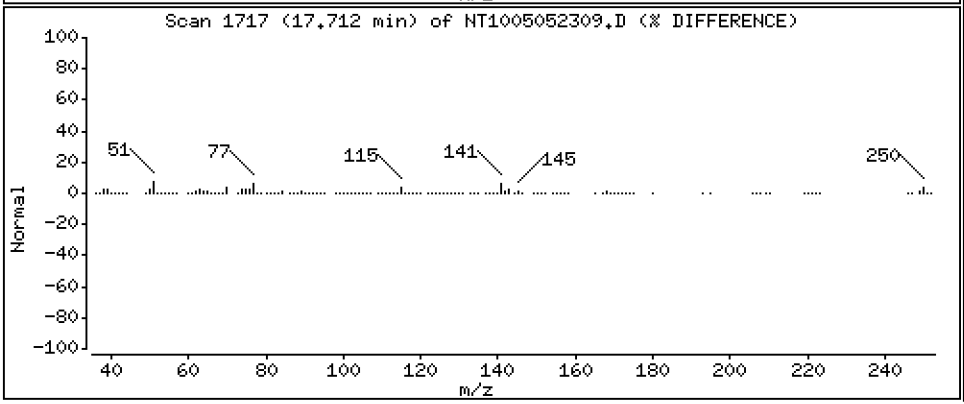
56 4-Bromophenyl-phenylether

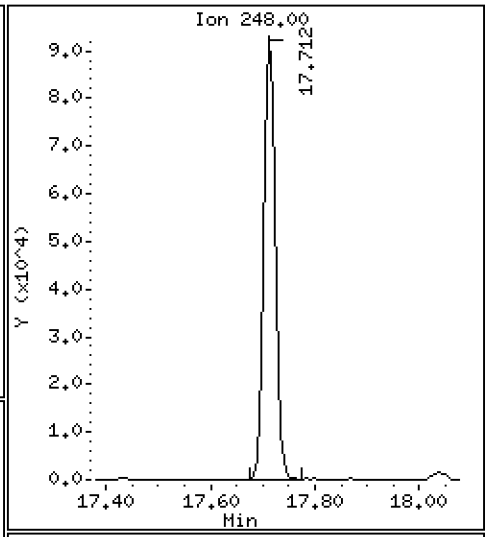
Concentration: 4.038 ug/mL

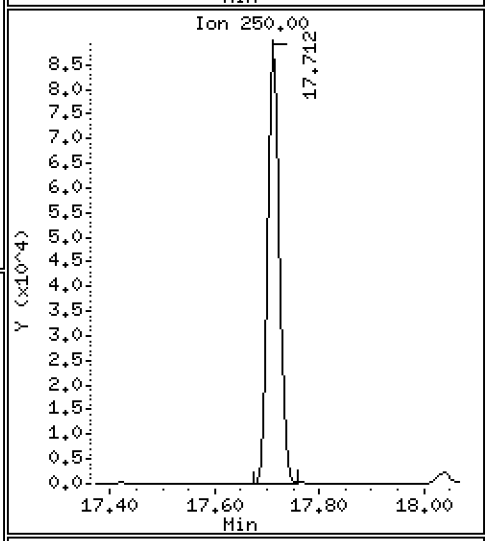


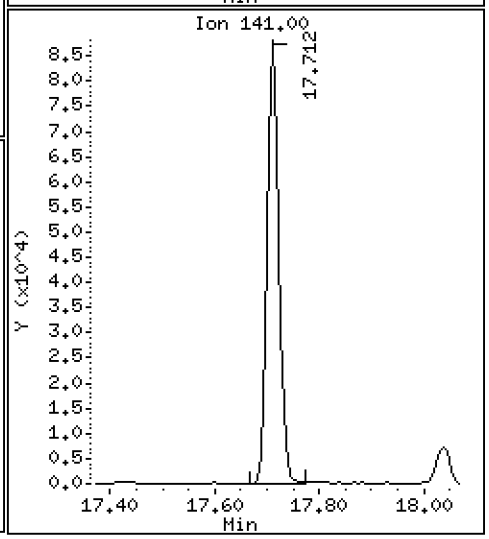












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

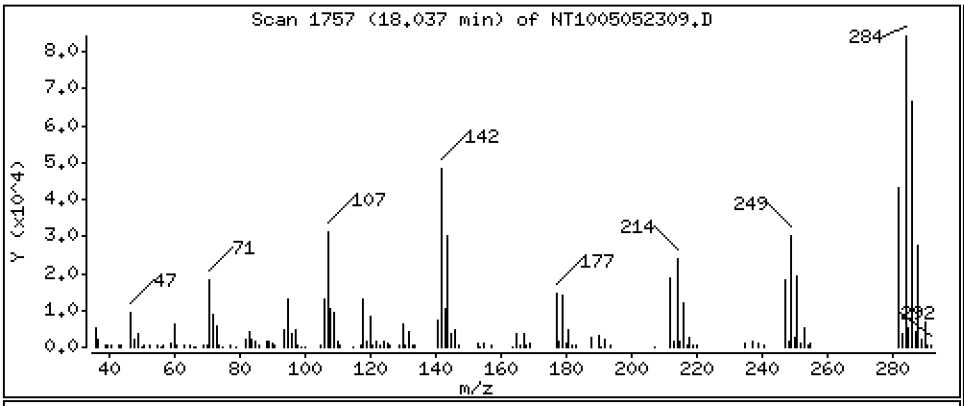
Operator: VTS

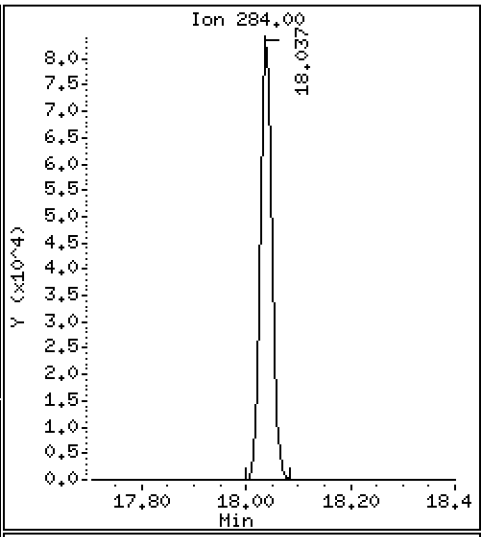
Column phase: ZB-5msi

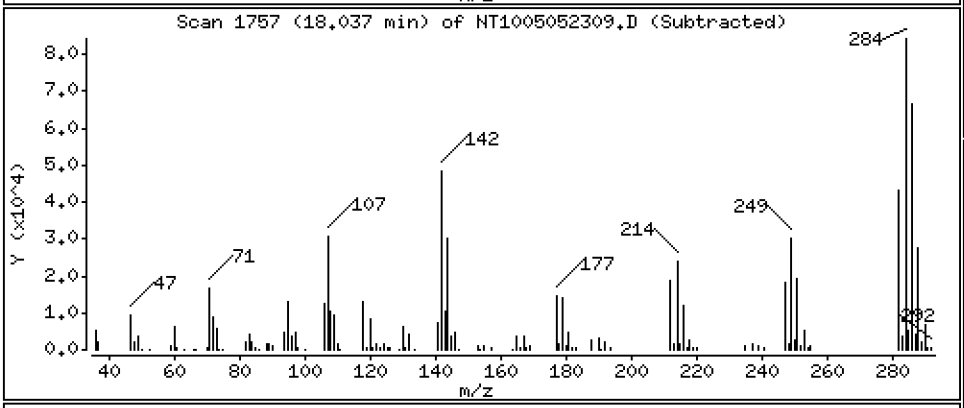
Column diameter: 0.25

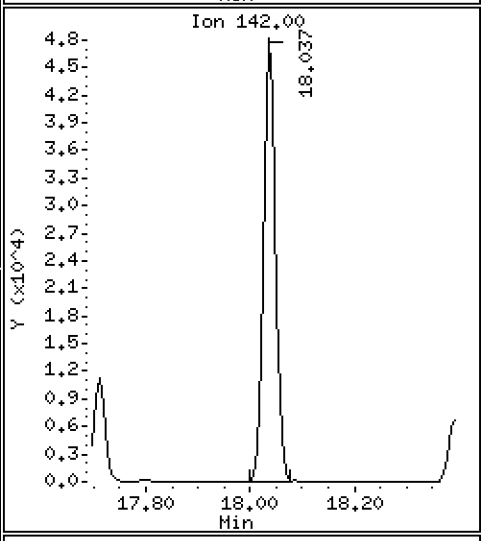
57 Hexachlorobenzene

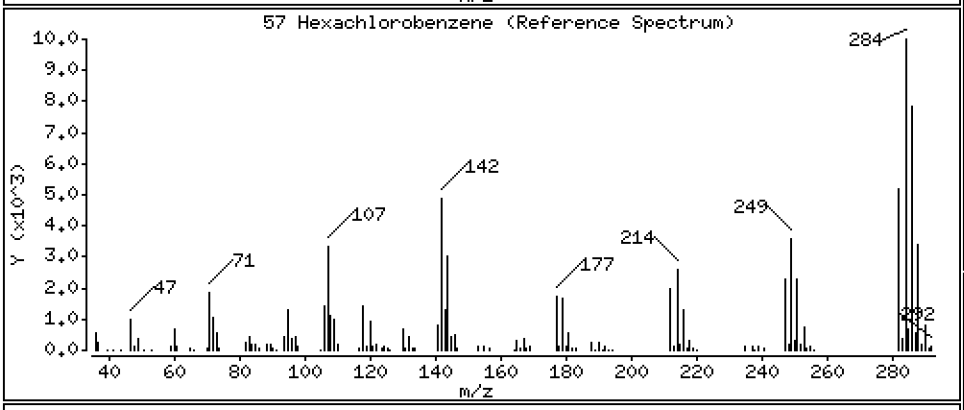
Concentration: 3.662 ug/mL

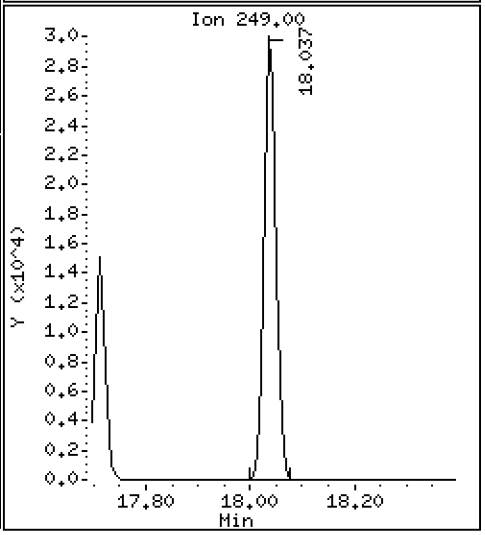


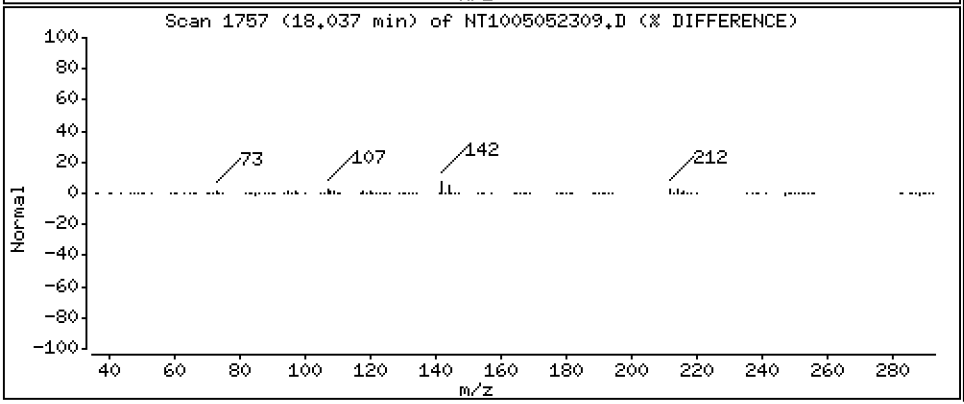












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

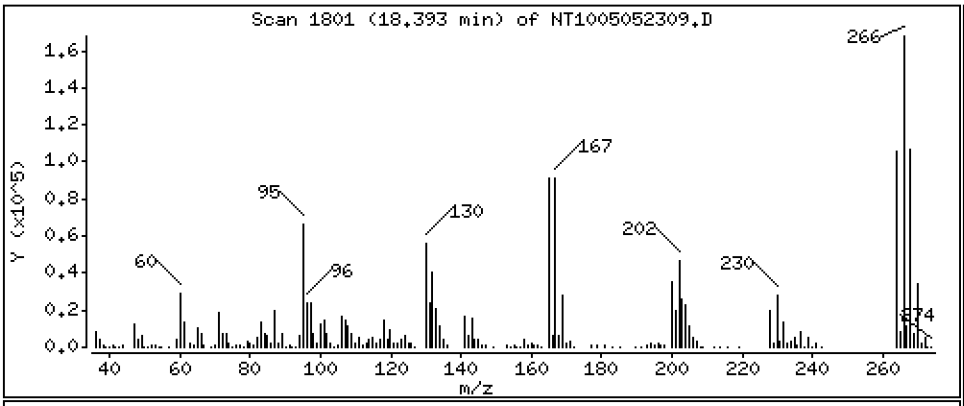
Operator: VTS

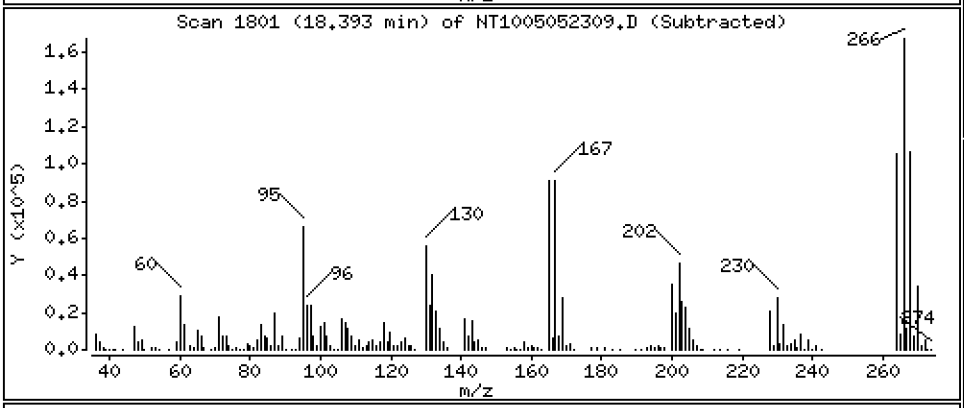
Column phase: ZB-5msi

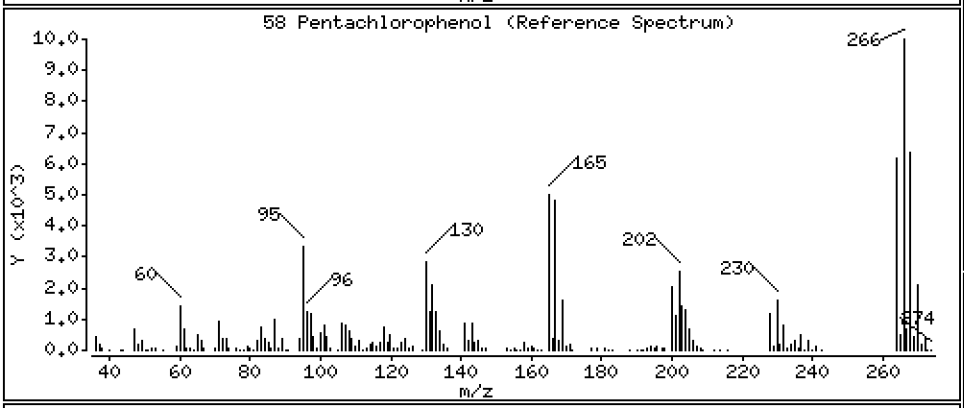
Column diameter: 0.25

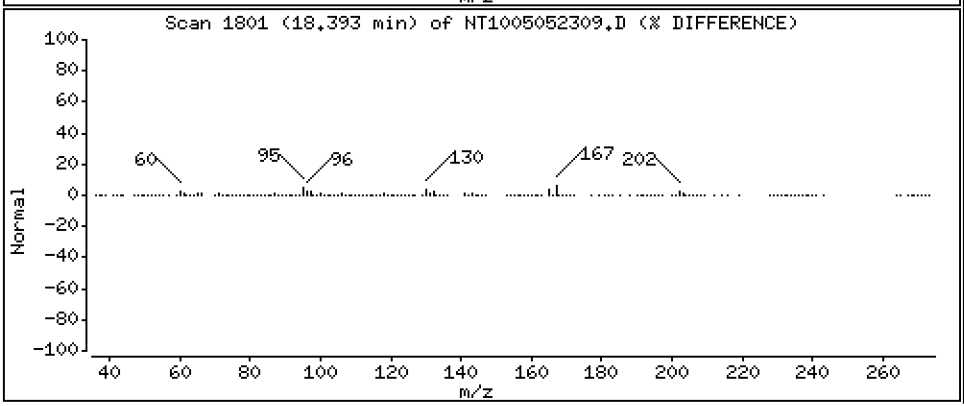
58 Pentachlorophenol

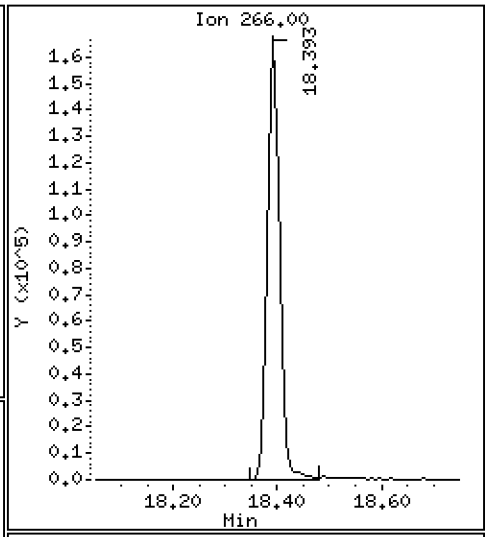
Concentration: 9.662 ug/mL

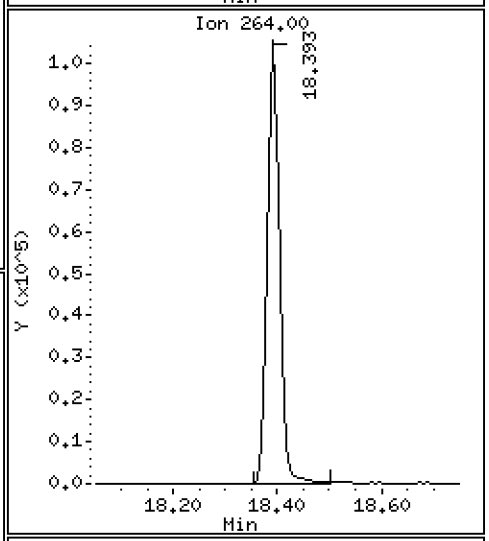


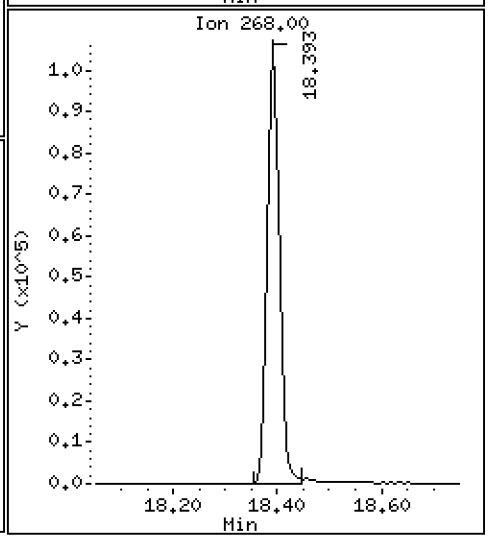












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

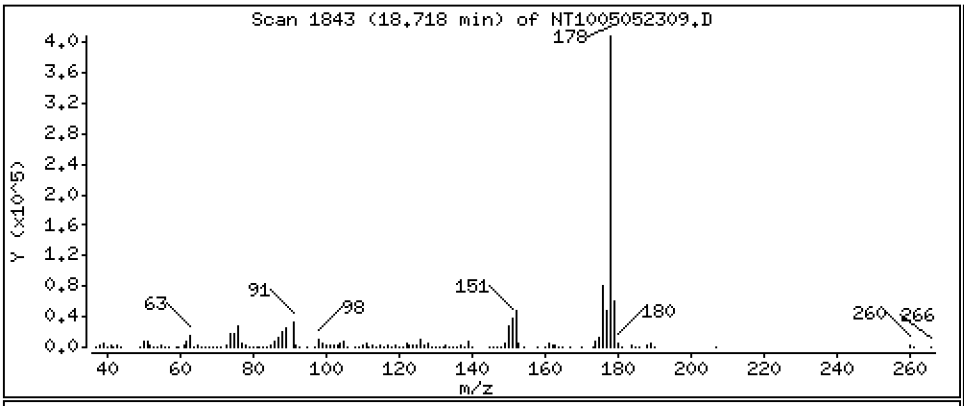
Operator: VTS

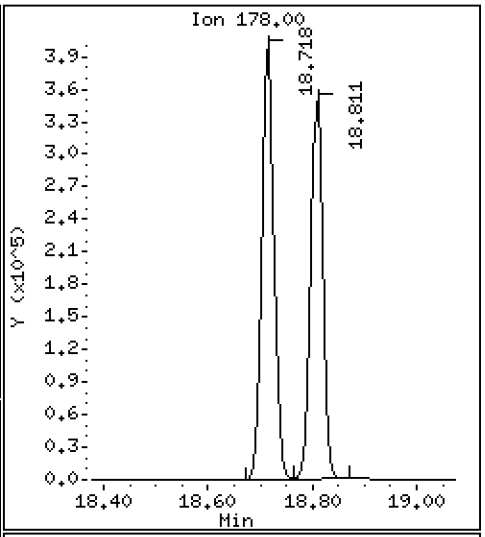
Column phase: ZB-5msi

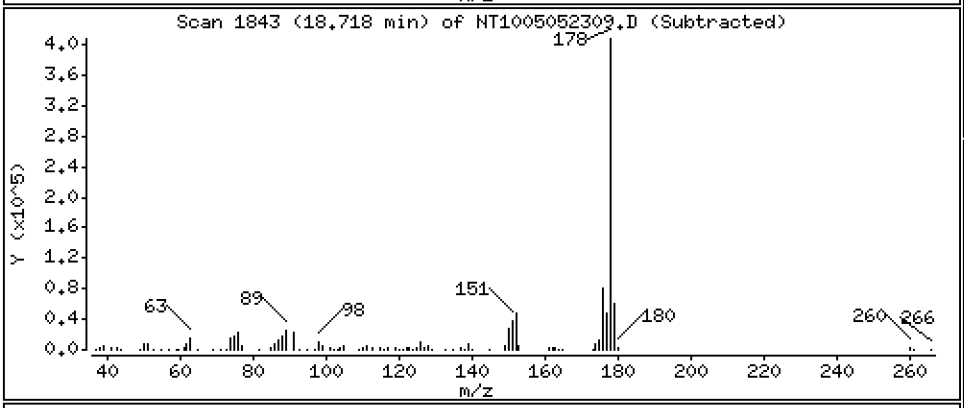
Column diameter: 0.25

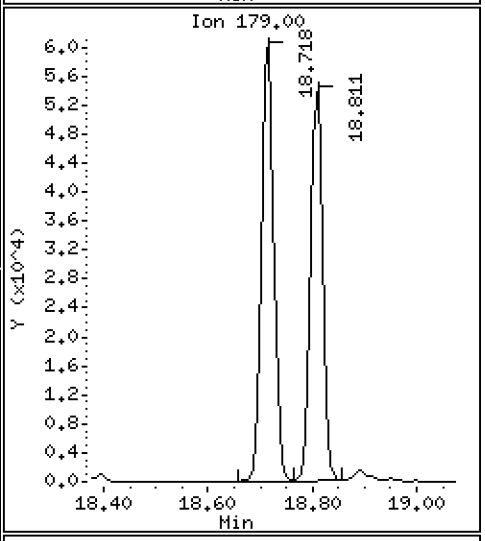
60 Phenanthrene

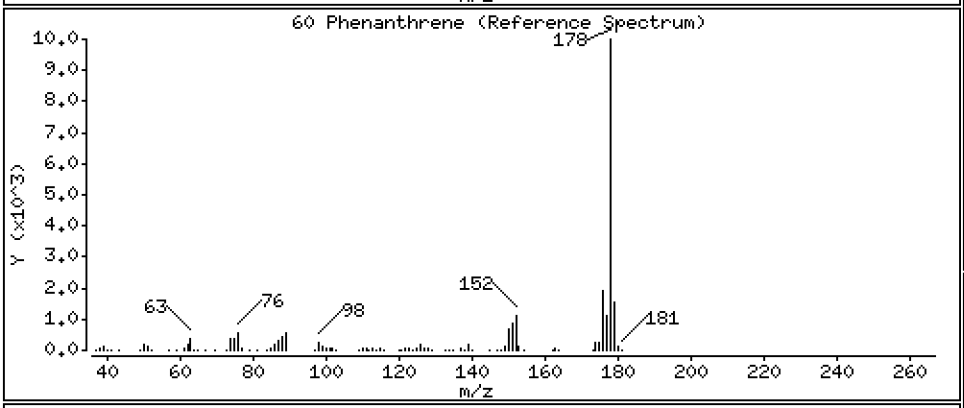
Concentration: 3.698 ug/mL

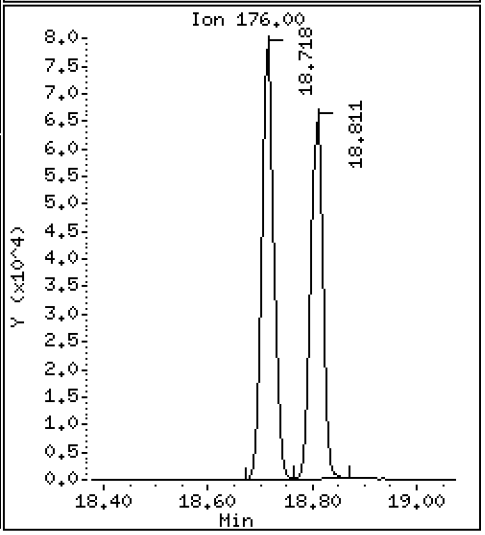


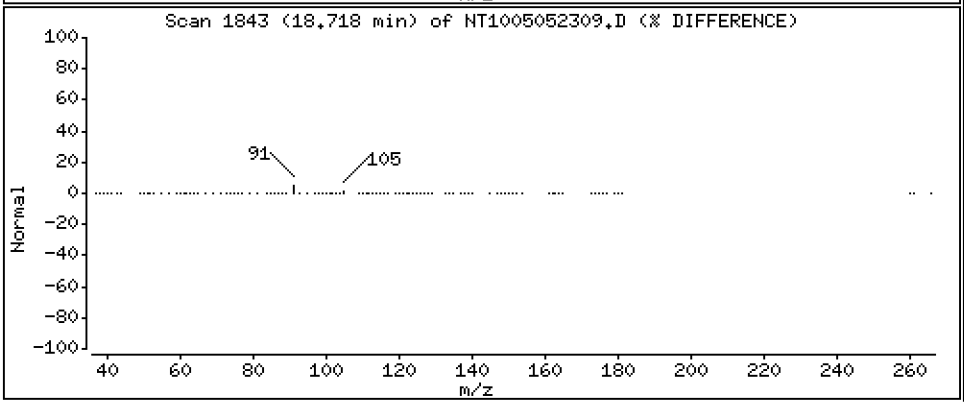












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

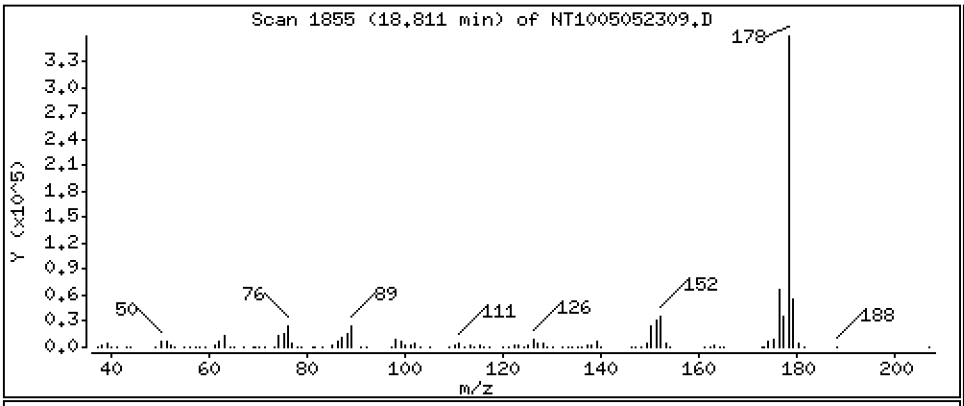
Operator: VTS

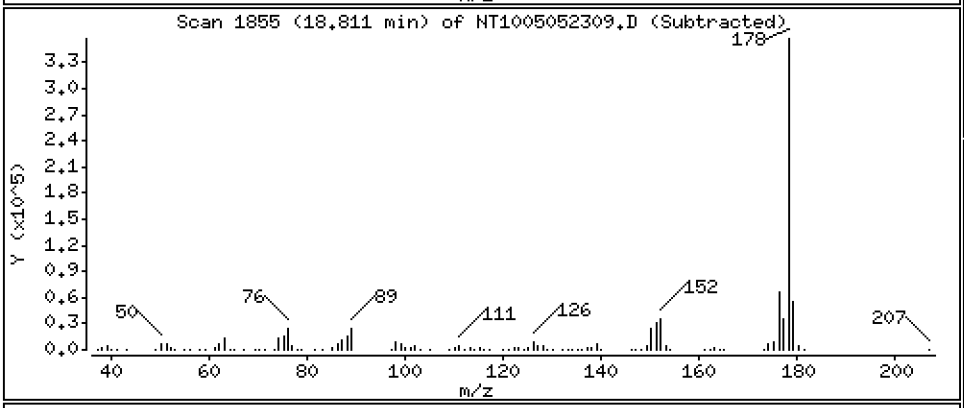
Column phase: ZB-5msi

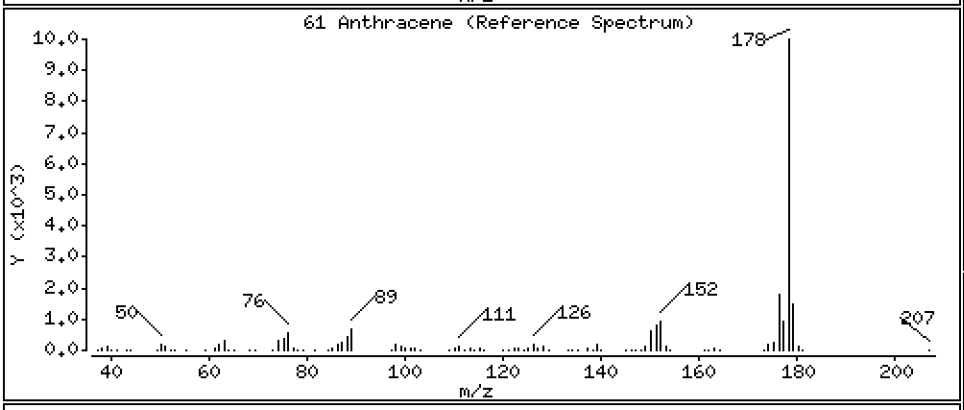
Column diameter: 0.25

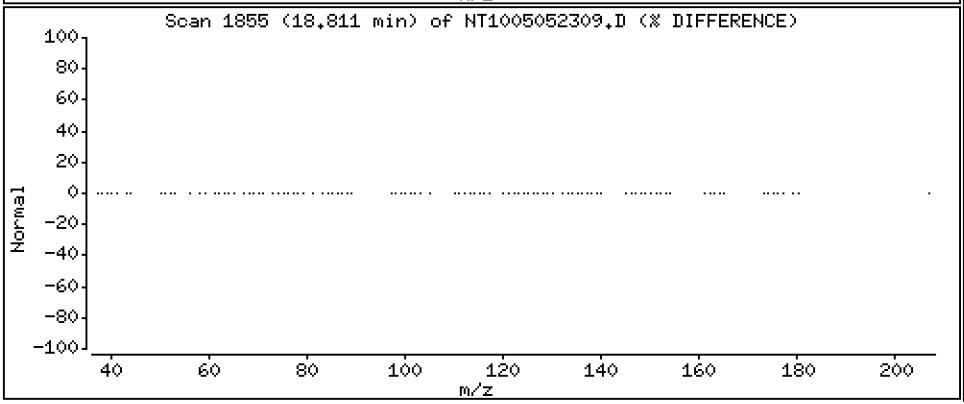
61 Anthracene

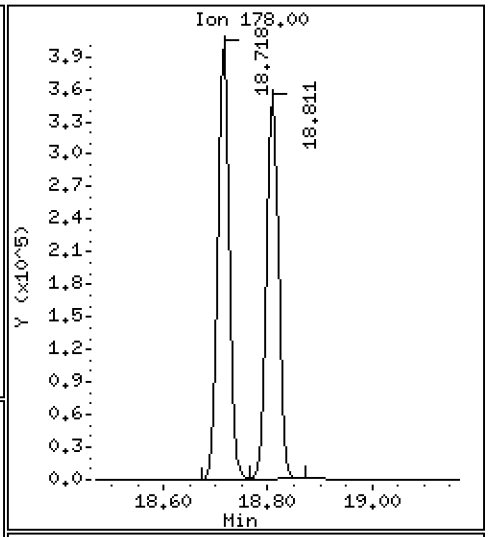
Concentration: 3.345 ug/mL

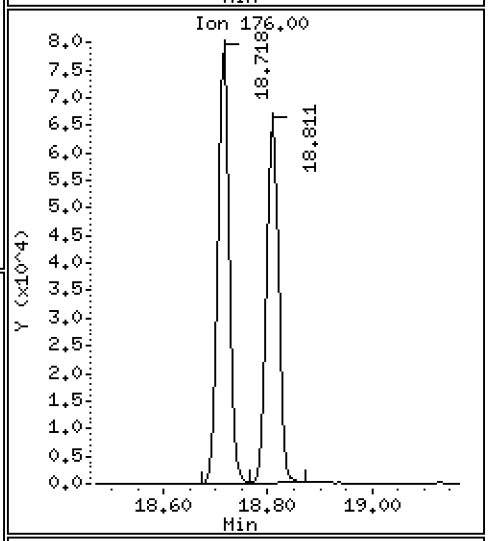


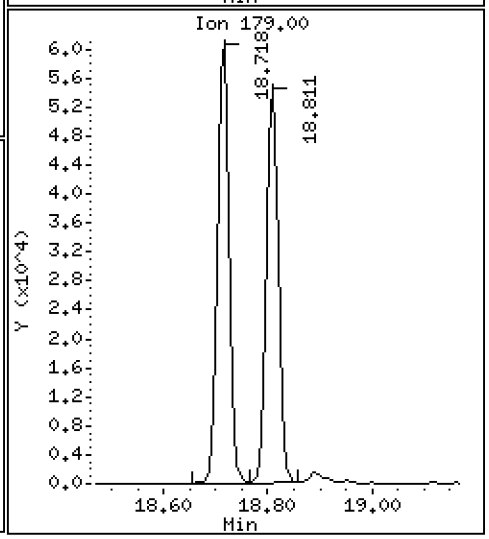












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

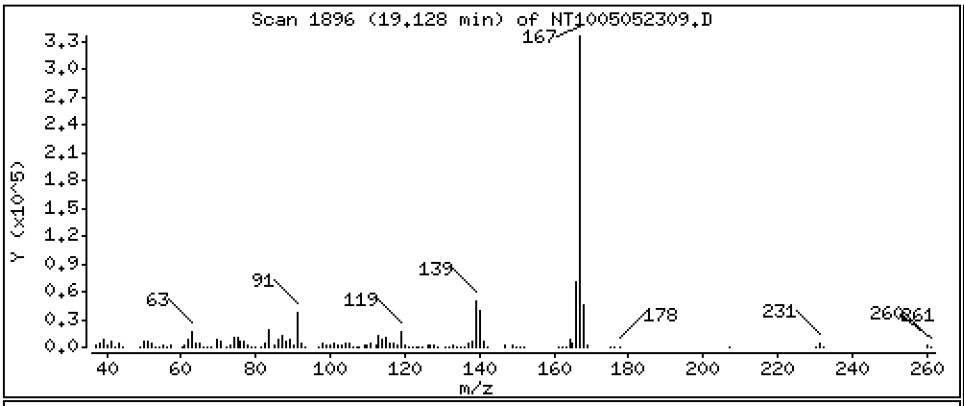
Operator: VTS

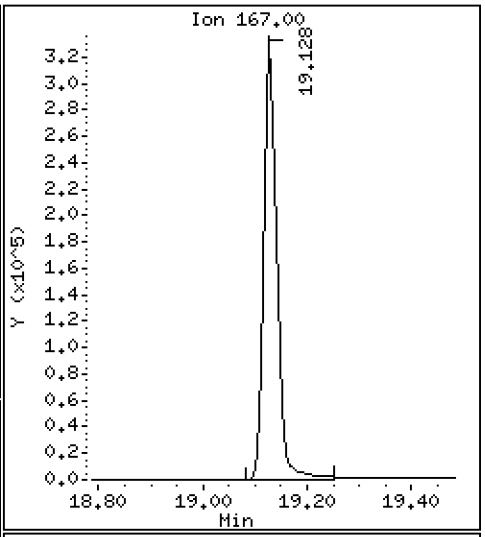
Column phase: ZB-5msi

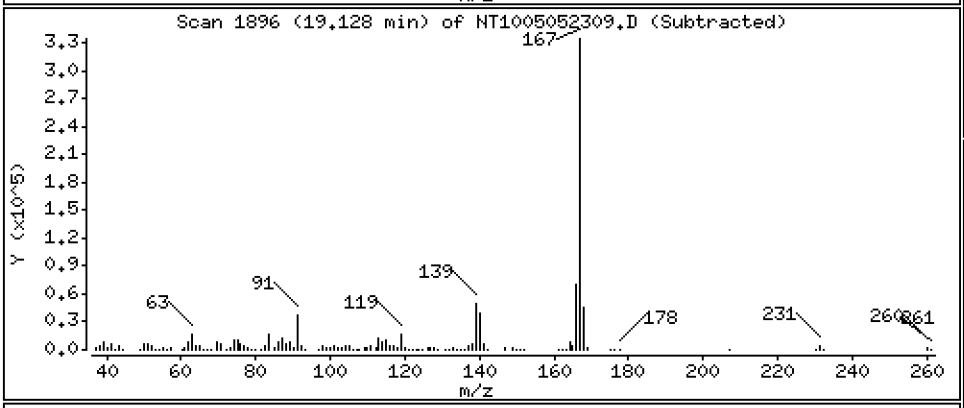
Column diameter: 0.25

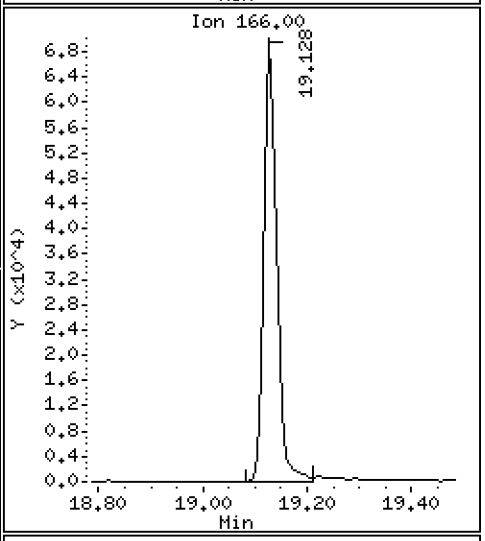
62 Carbazole

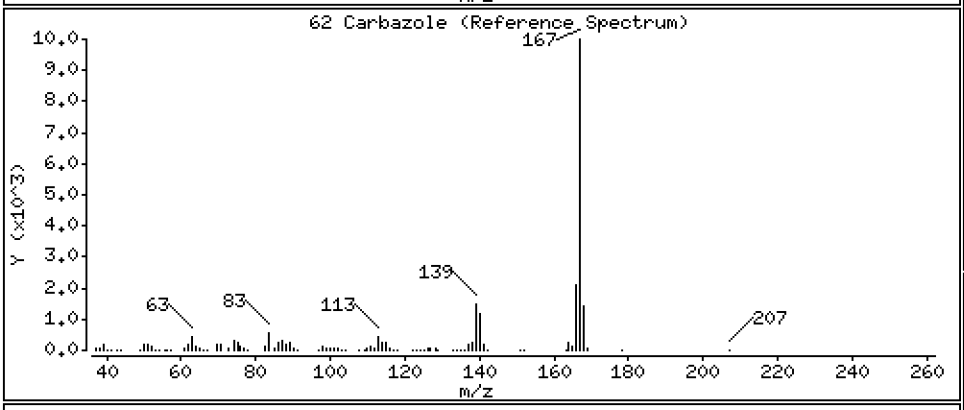
Concentration: 3.947 ug/mL

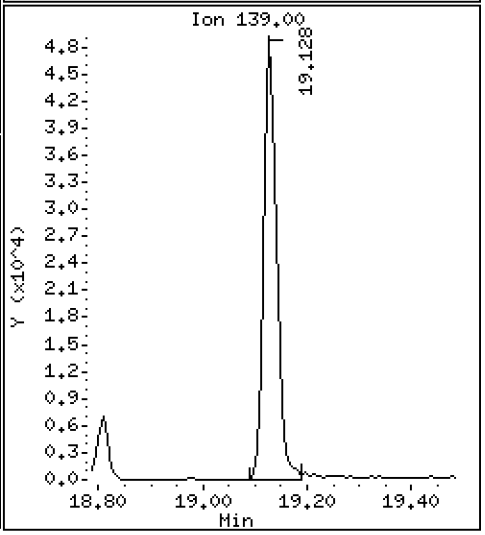


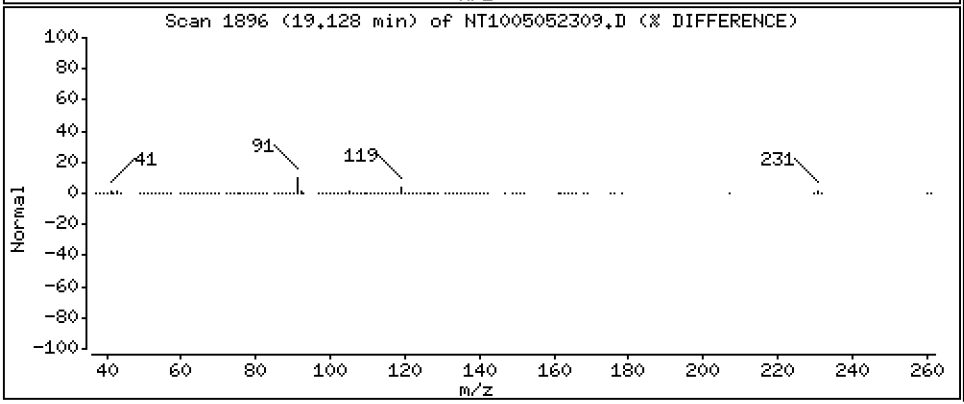












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

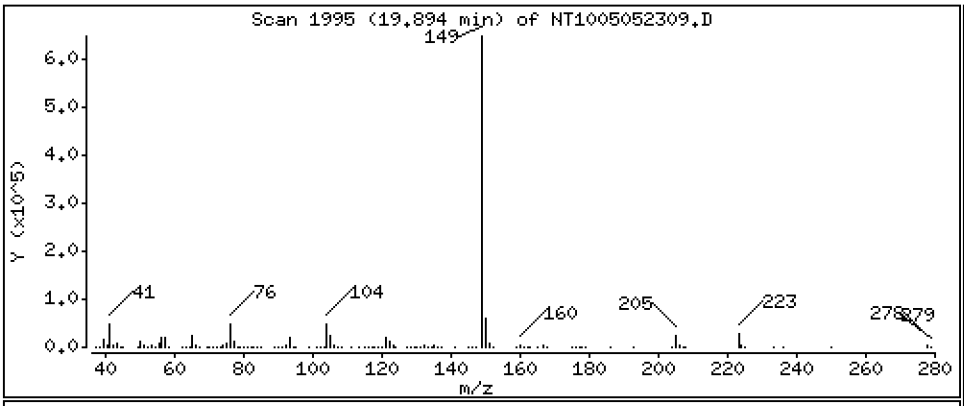
Operator: VTS

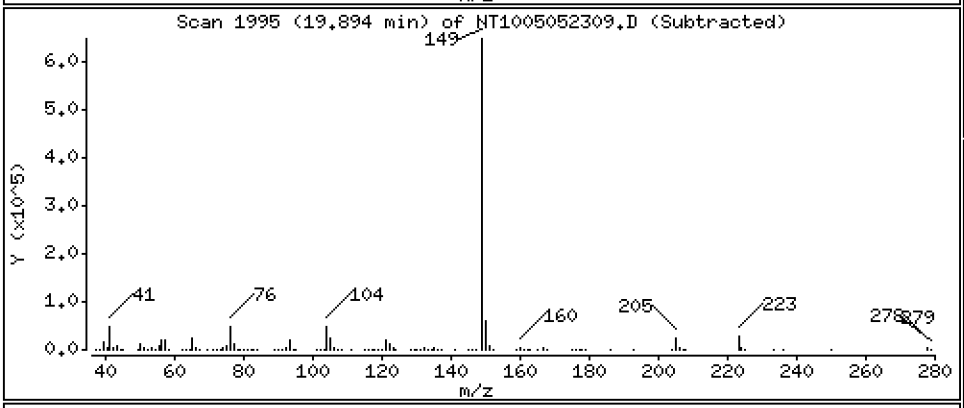
Column phase: ZB-5msi

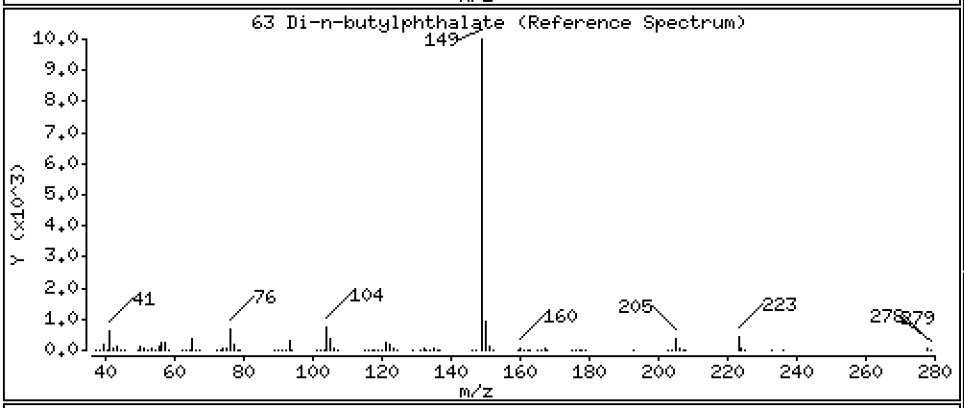
Column diameter: 0.25

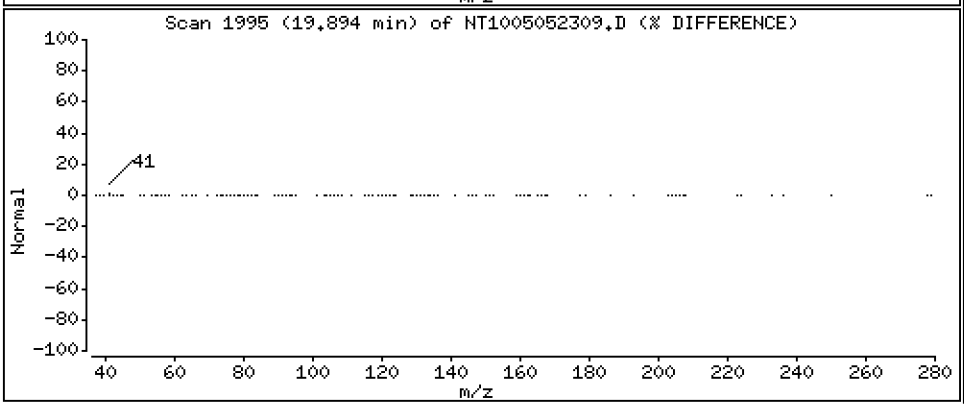
63 Di-n-butylphthalate

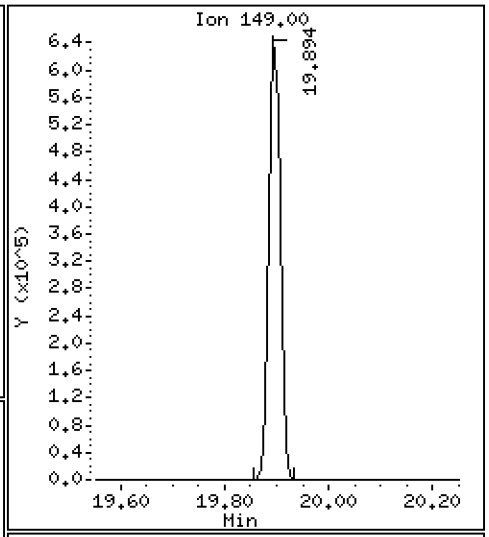
Concentration: 4.253 ug/mL

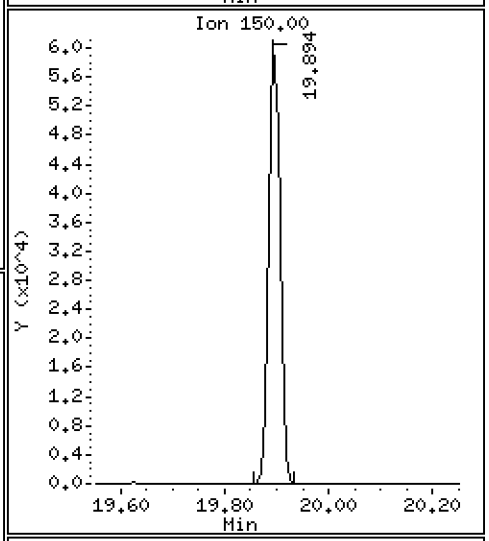


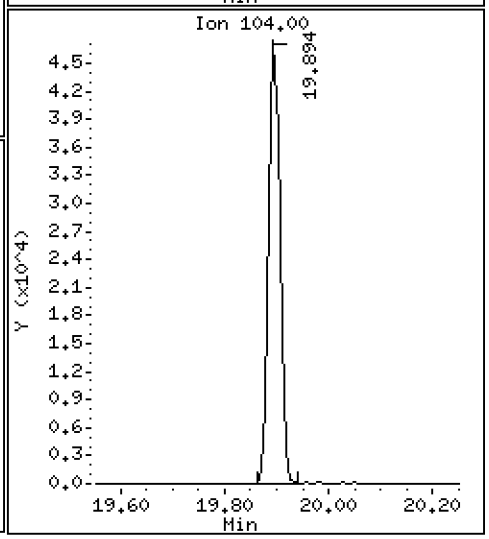












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

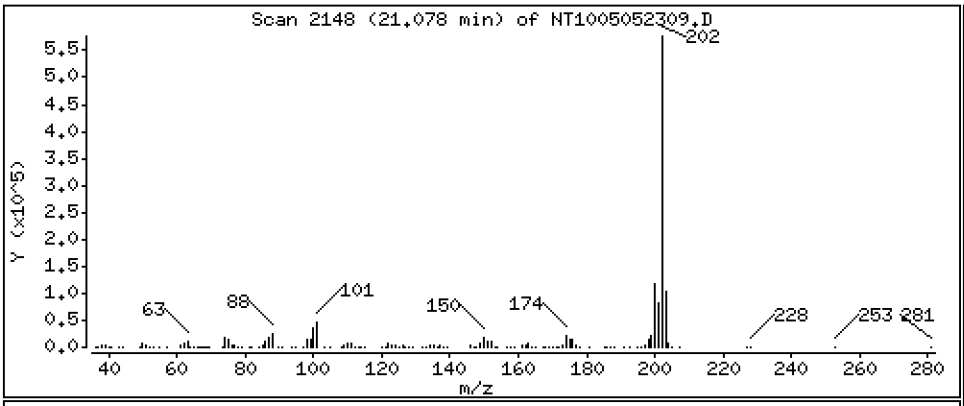
Operator: VTS

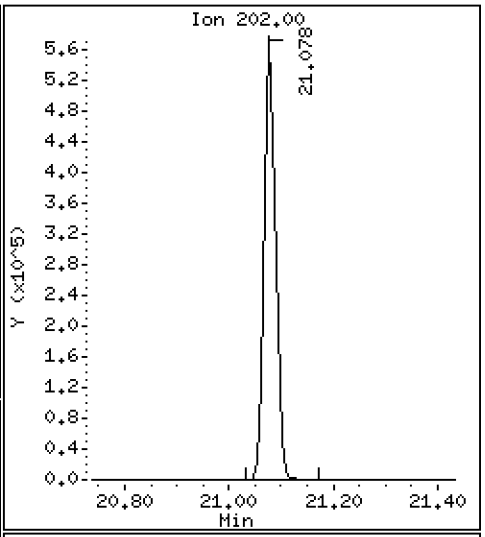
Column phase: ZB-5msi

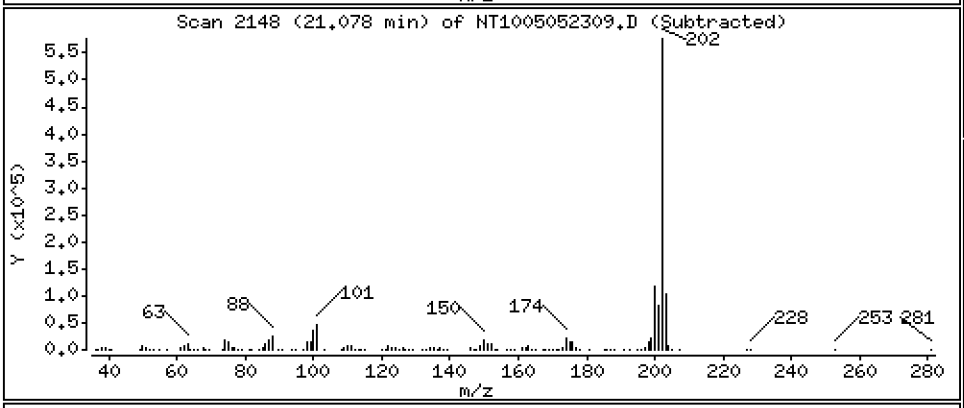
Column diameter: 0.25

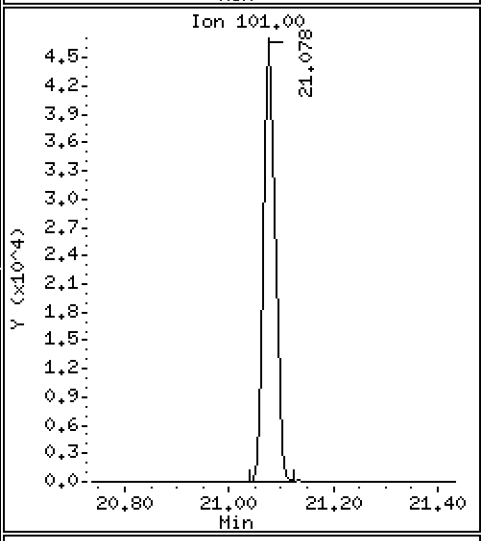
64 Fluoranthene

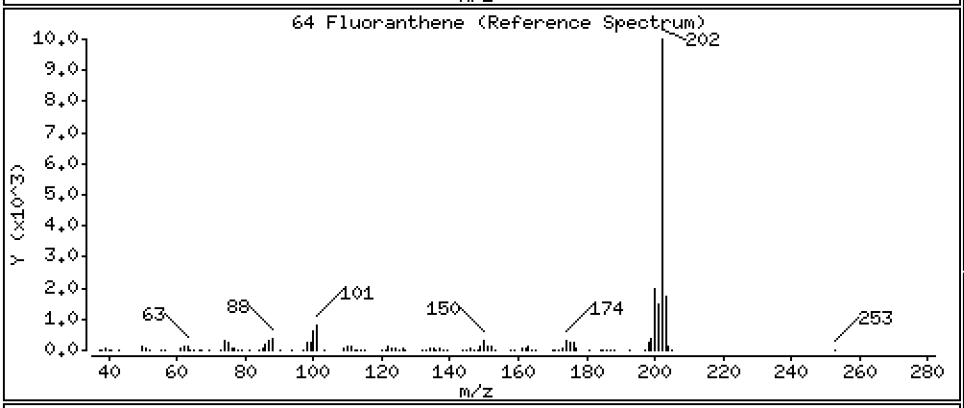
Concentration: 3.875 ug/mL

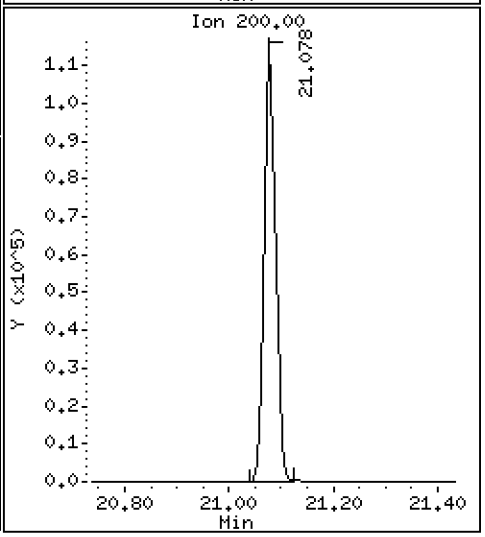


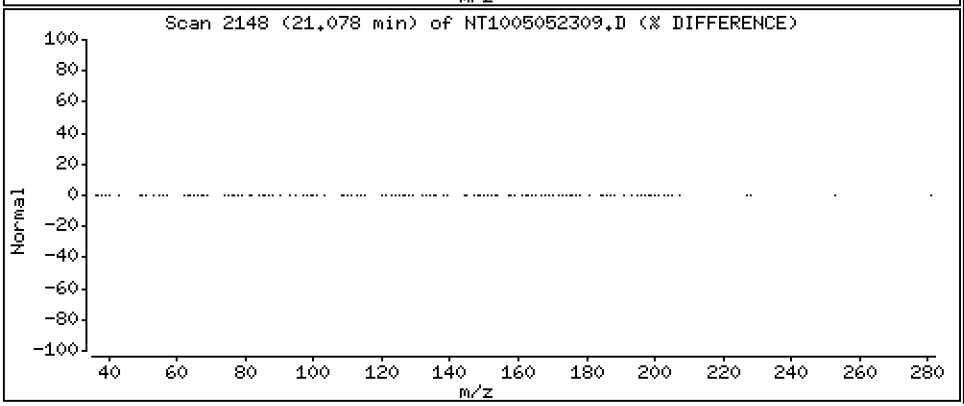












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

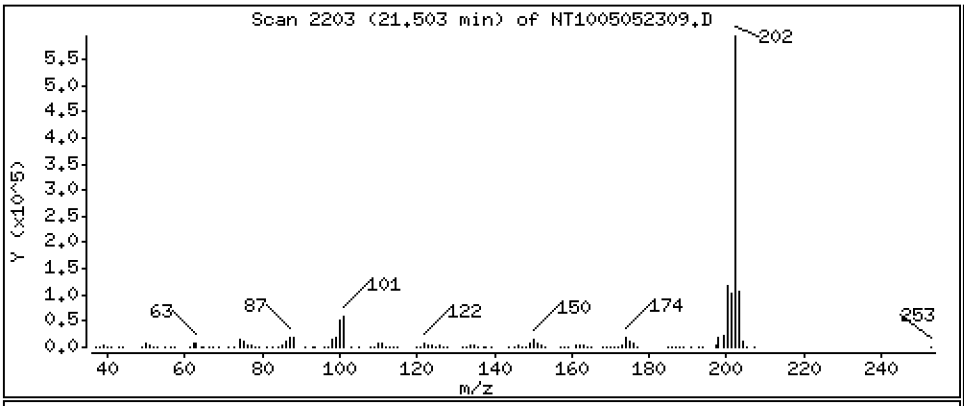
Operator: VTS

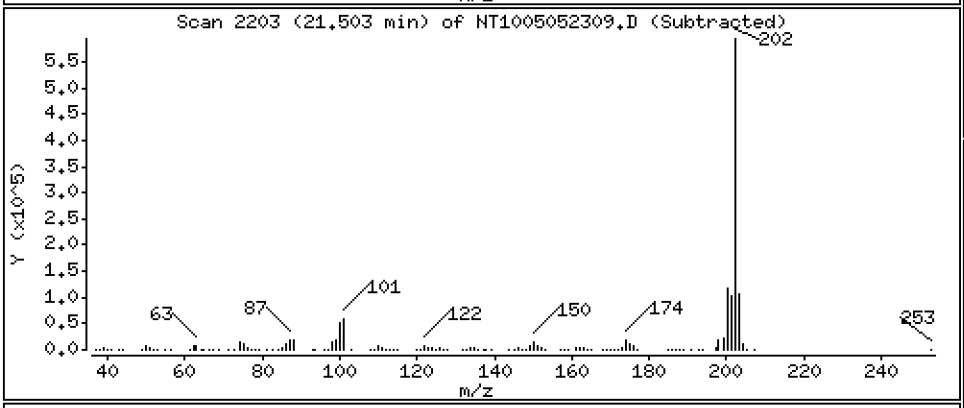
Column phase: ZB-5msi

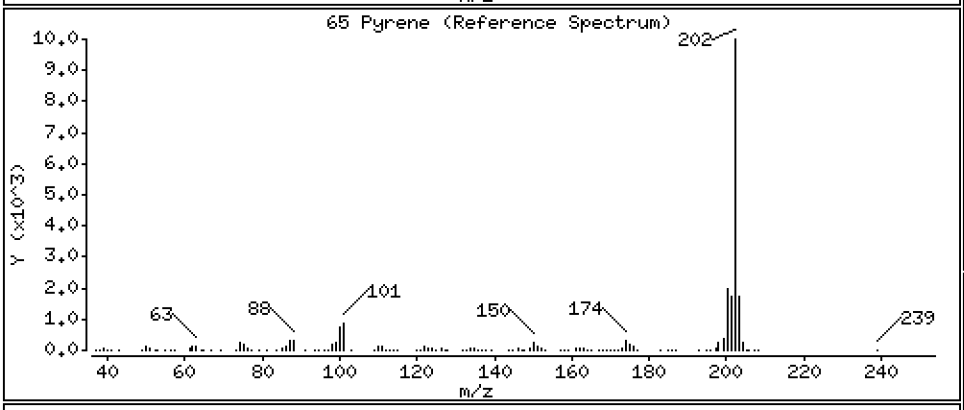
Column diameter: 0.25

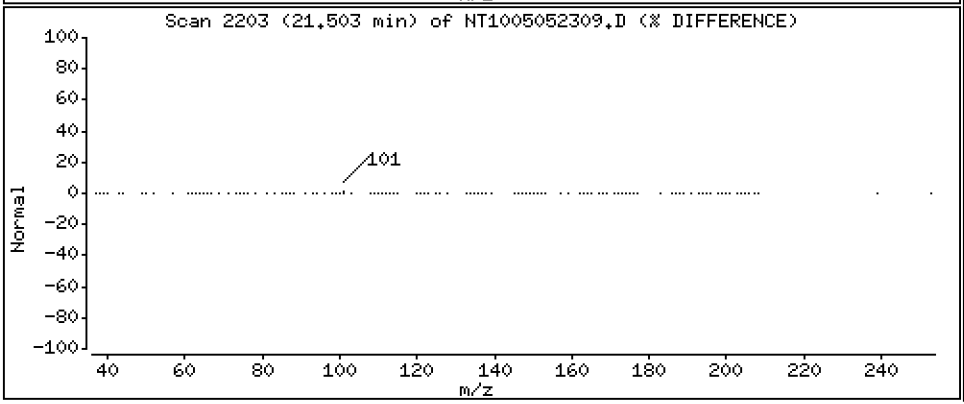
65 Pyrene

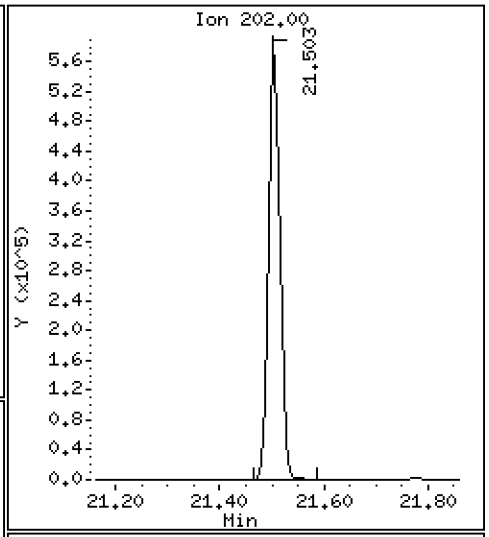
Concentration: 3.883 ug/mL

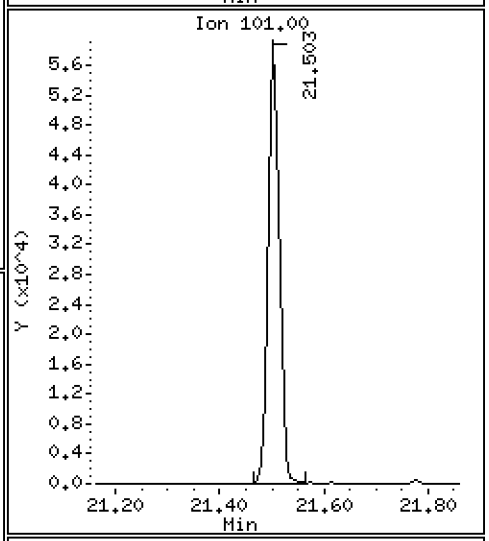


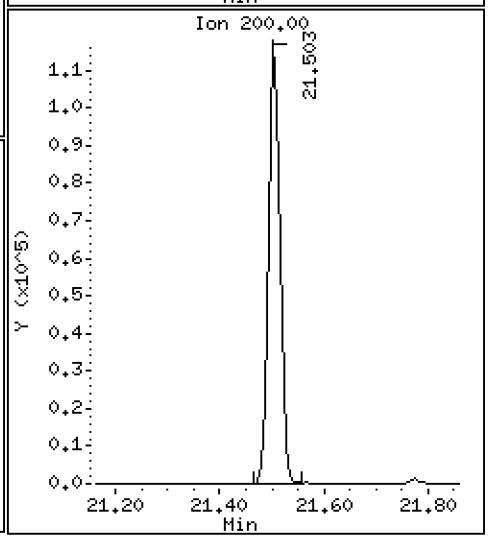












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

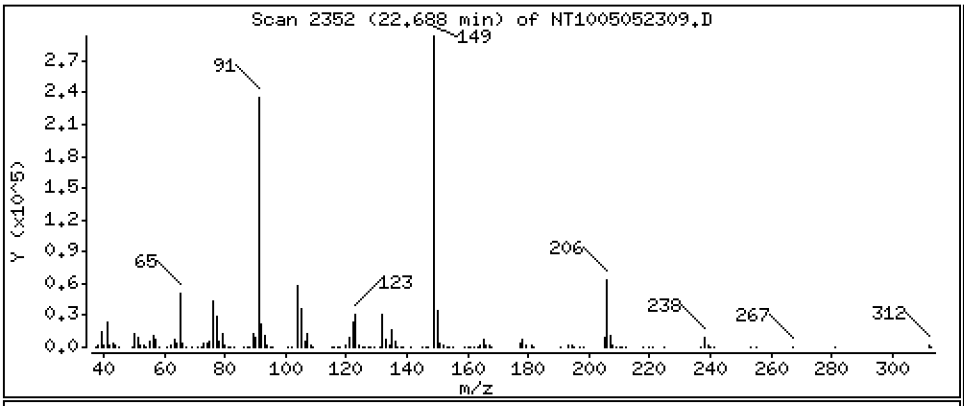
Operator: VTS

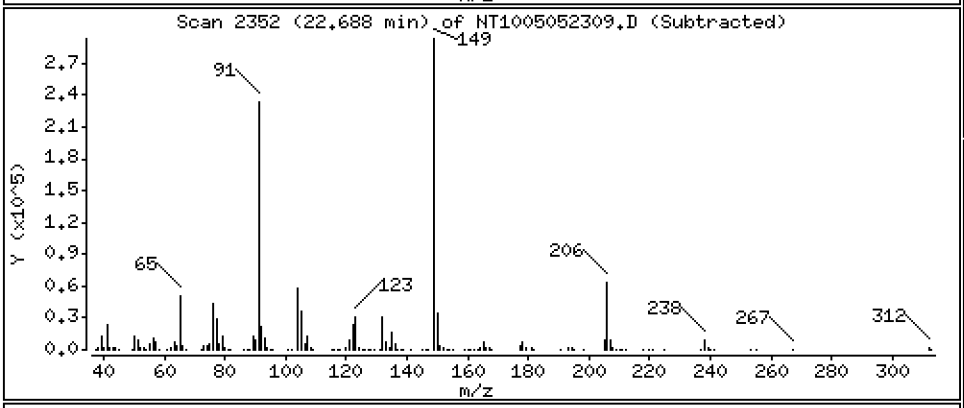
Column phase: ZB-5msi

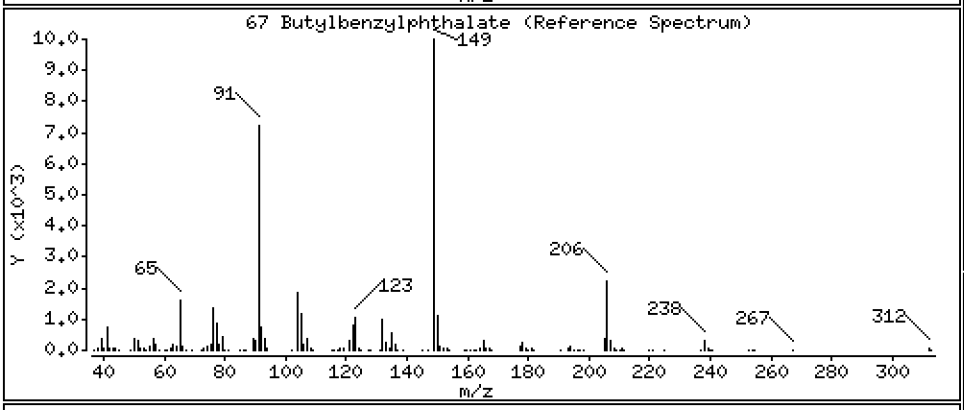
Column diameter: 0.25

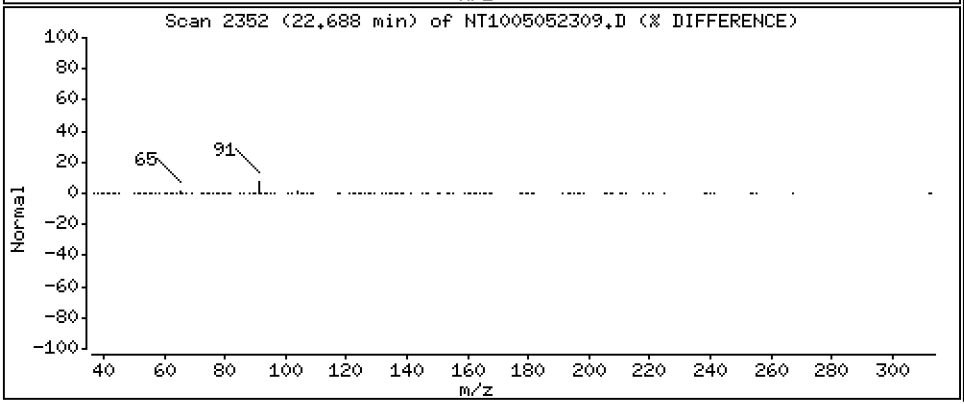
67 Butylbenzylphthalate

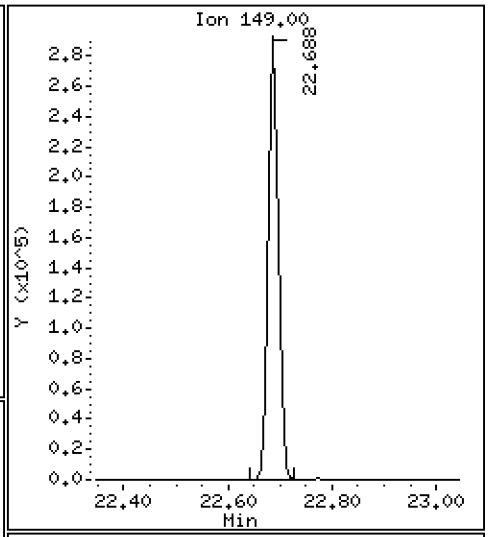
Concentration: 3.925 ug/mL

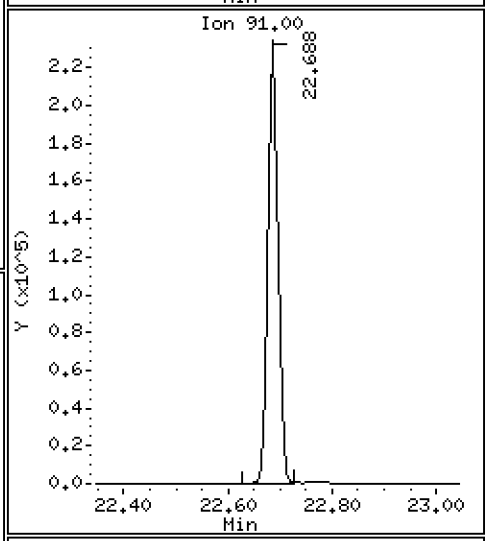


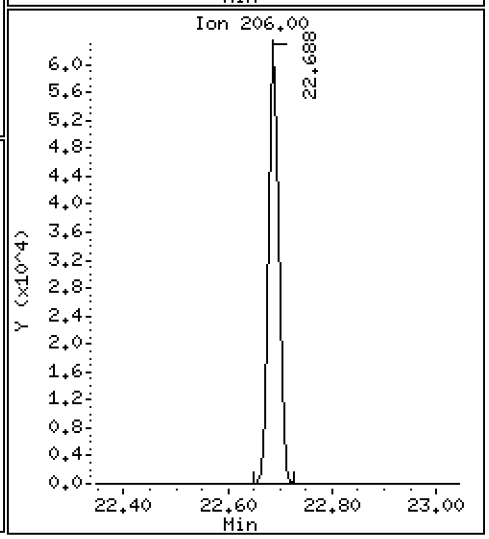












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

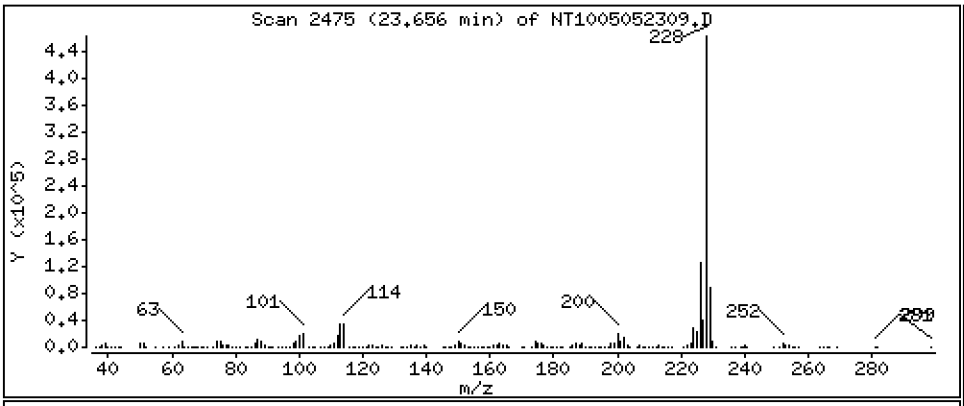
Operator: VTS

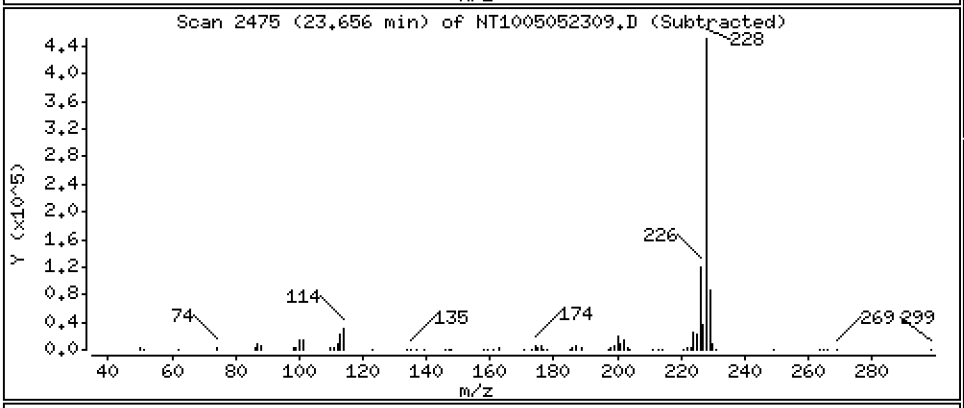
Column phase: ZB-5msi

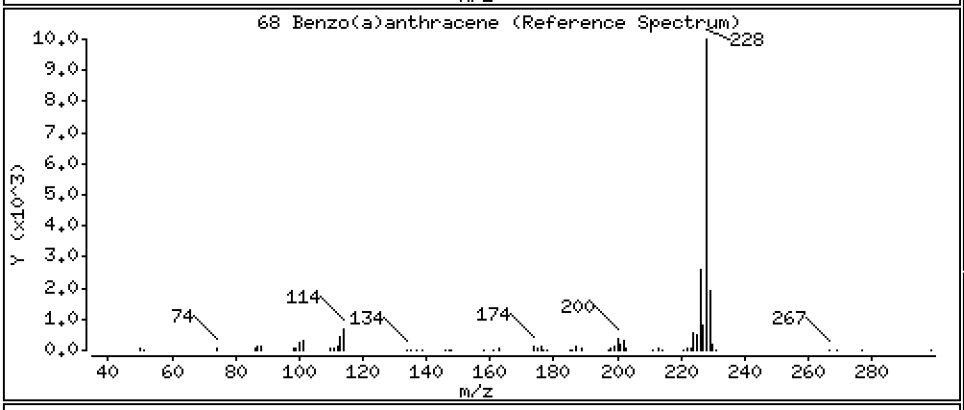
Column diameter: 0.25

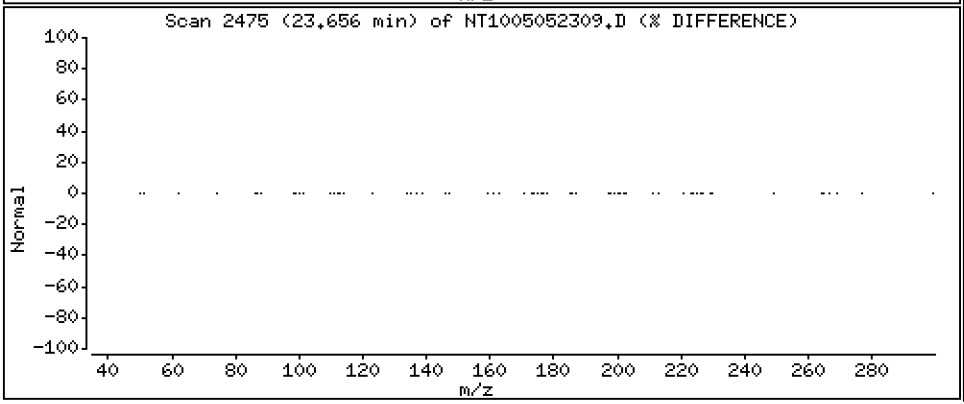
68 Benzo(a)anthracene

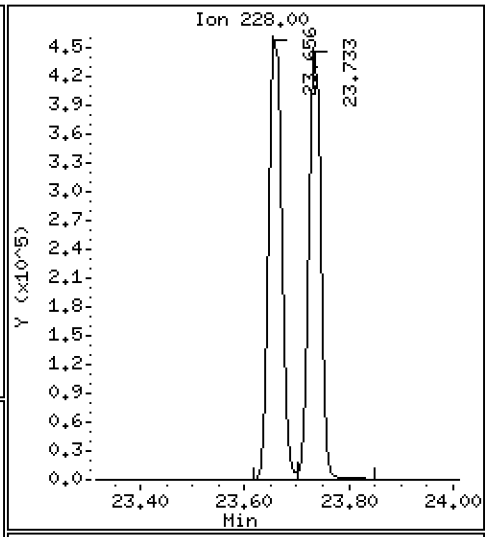
Concentration: 3.885 ug/mL

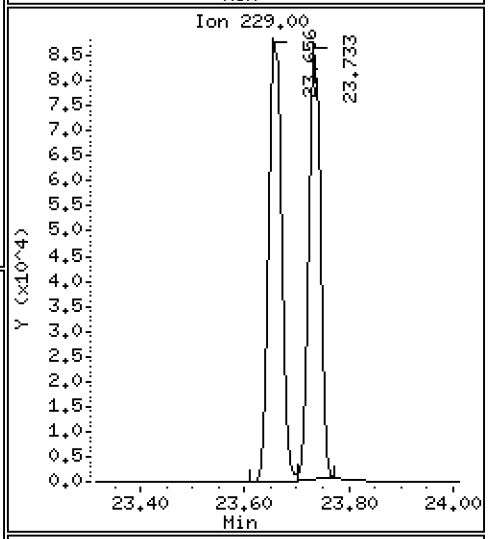


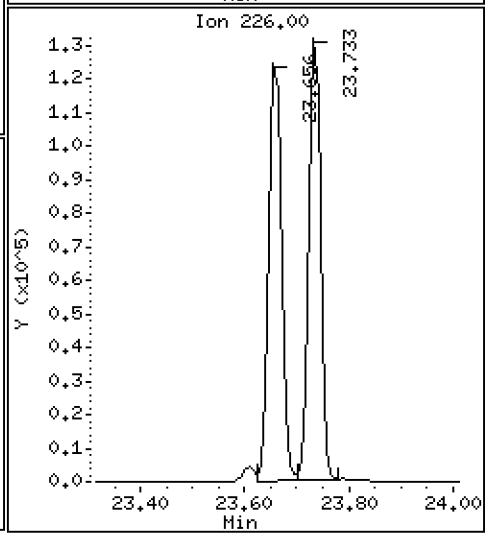












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

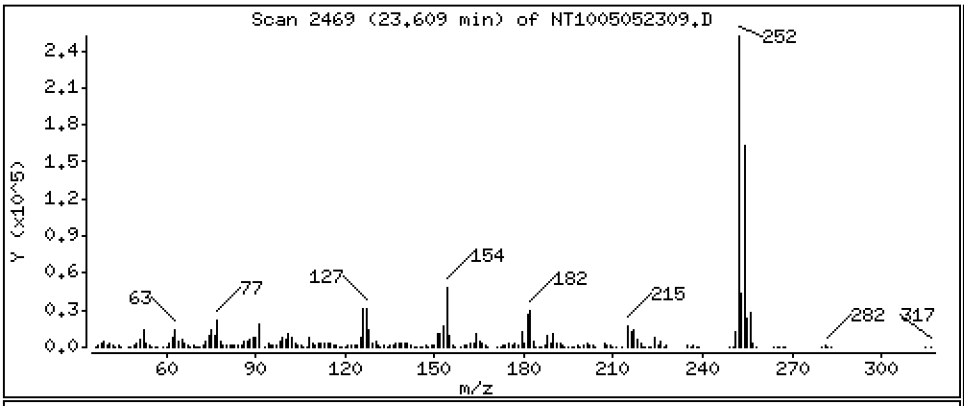
Operator: VTS

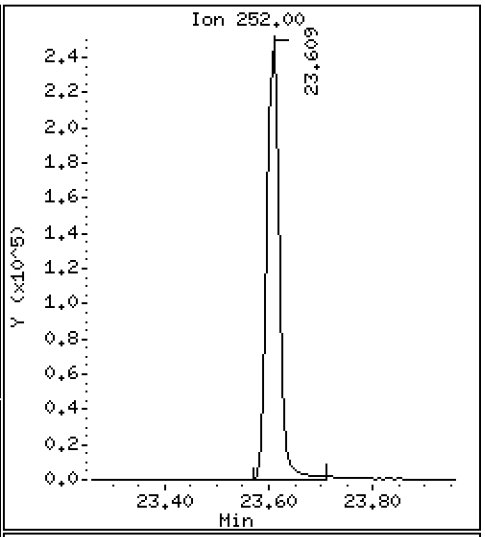
Column phase: ZB-5msi

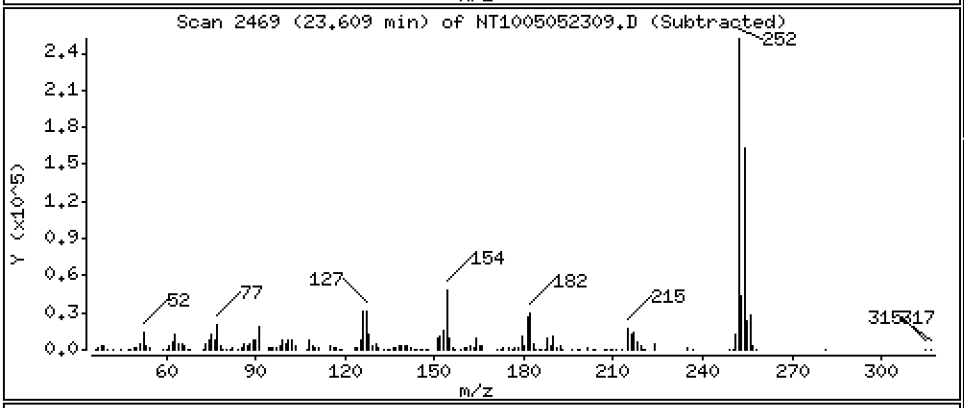
Column diameter: 0.25

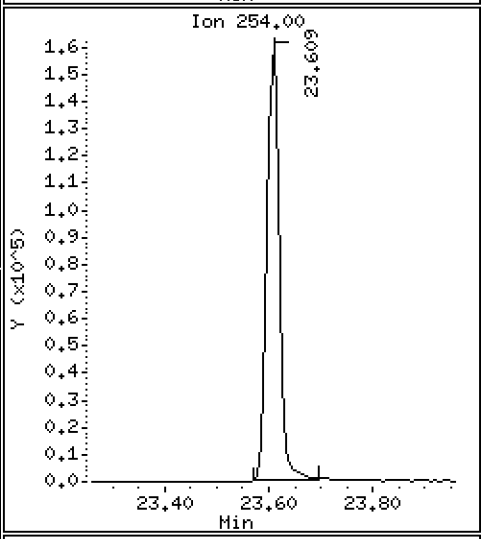
70 3,3'-Dichlorobenzidine

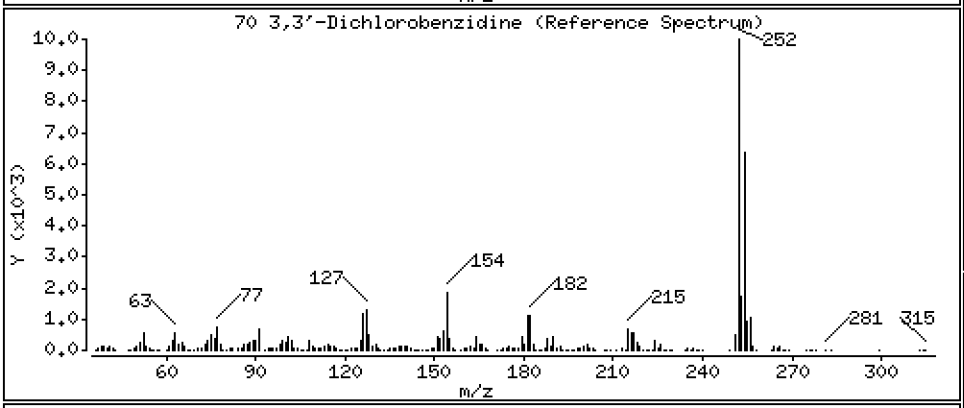
Concentration: 6.517 ug/mL

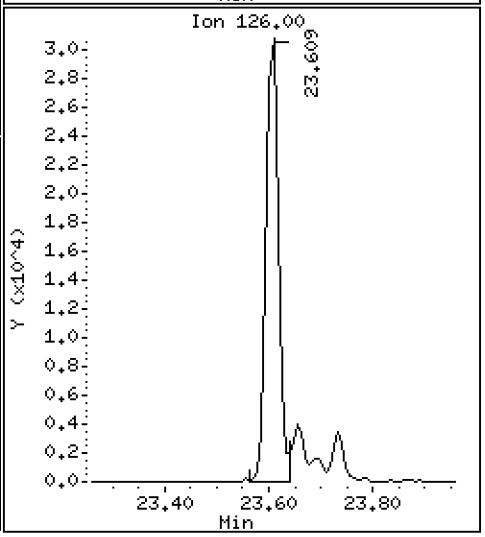


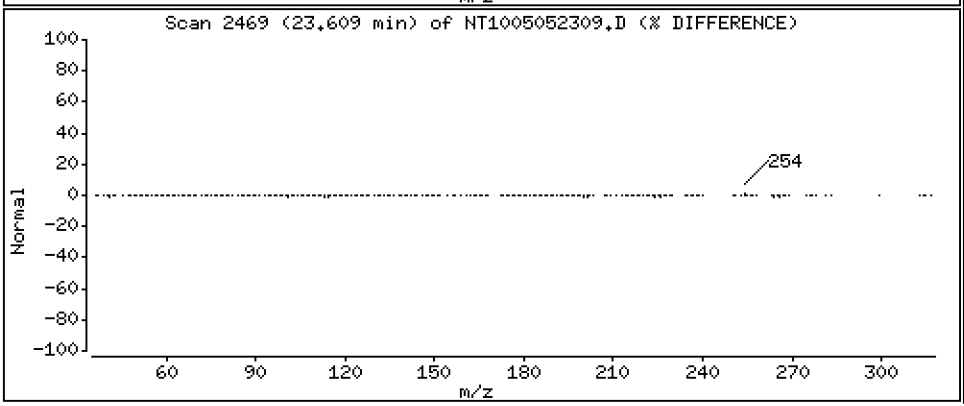












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

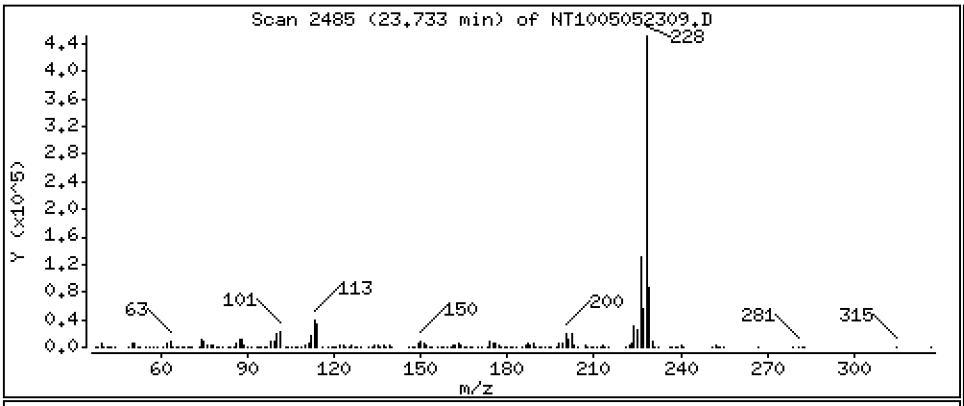
Operator: VTS

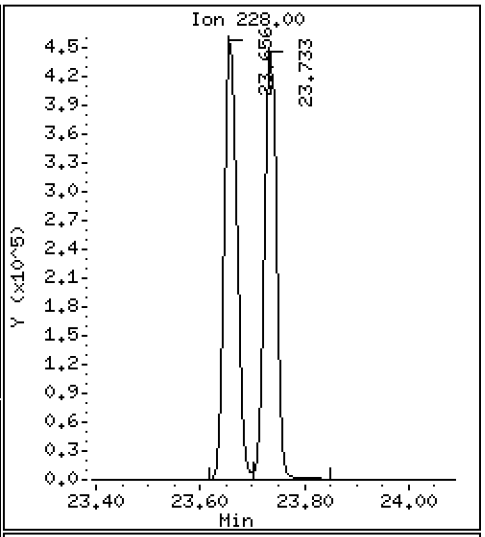
Column phase: ZB-5msi

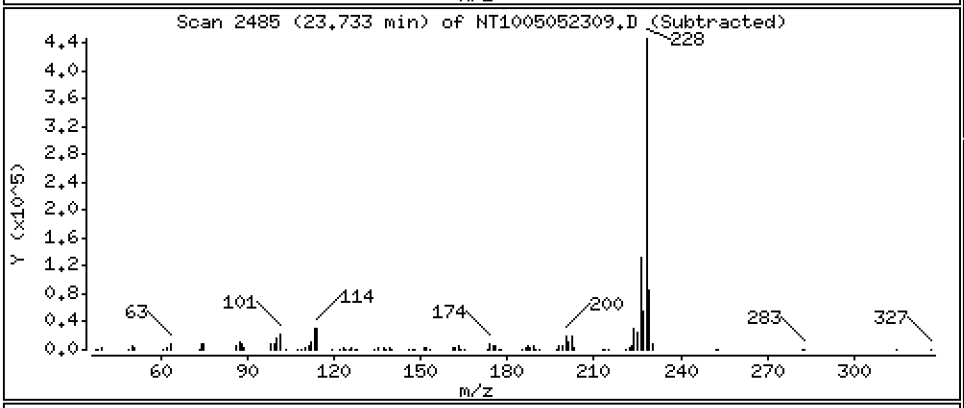
Column diameter: 0.25

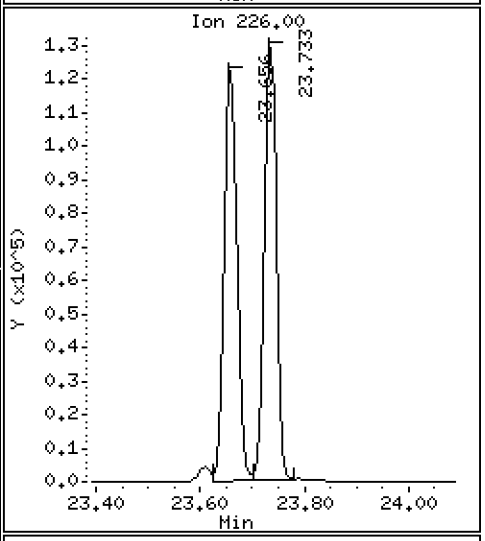
71 Chrysene

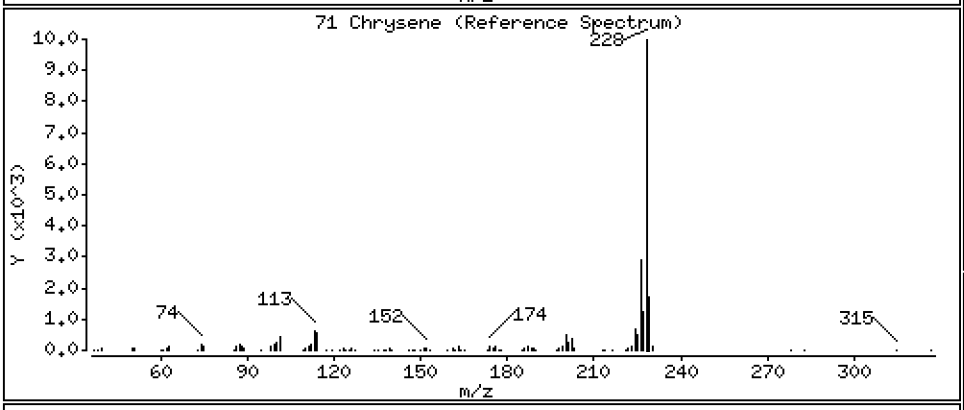
Concentration: 3.863 ug/mL

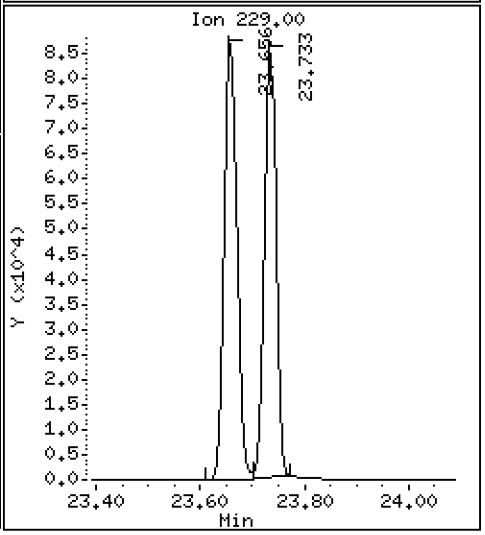


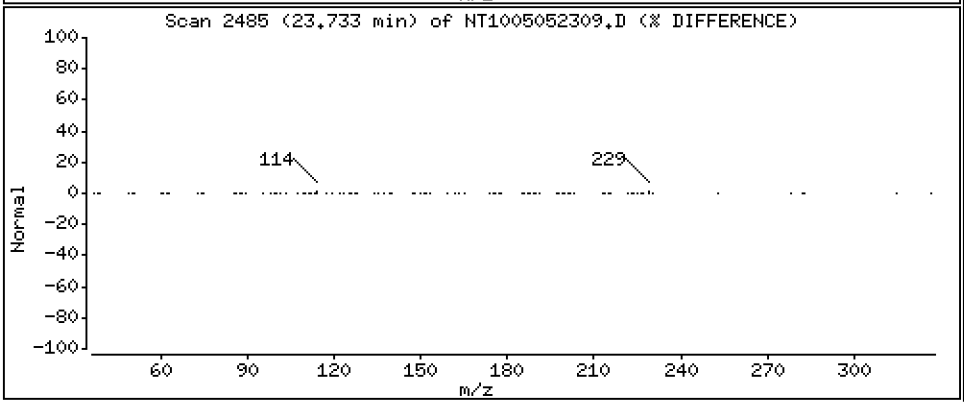












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

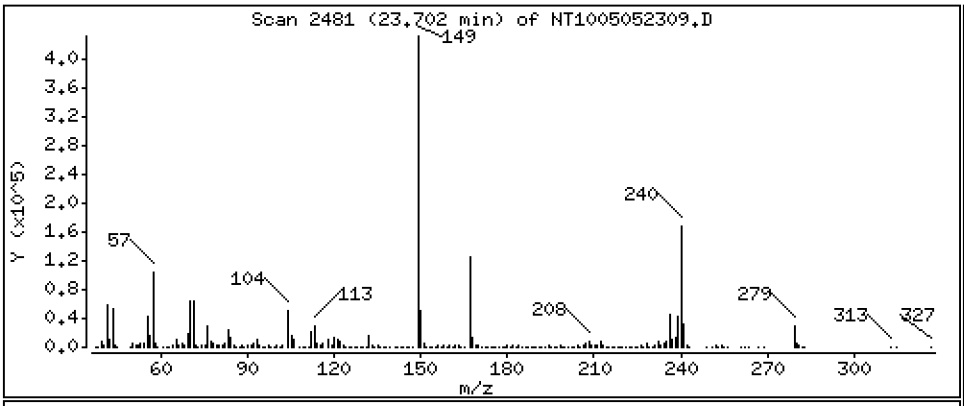
Operator: VTS

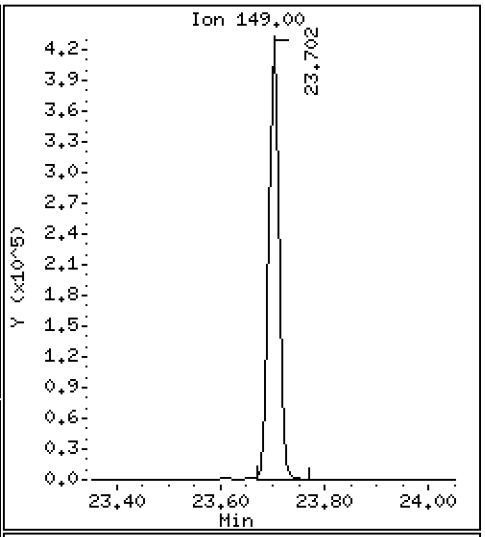
Column phase: ZB-5msi

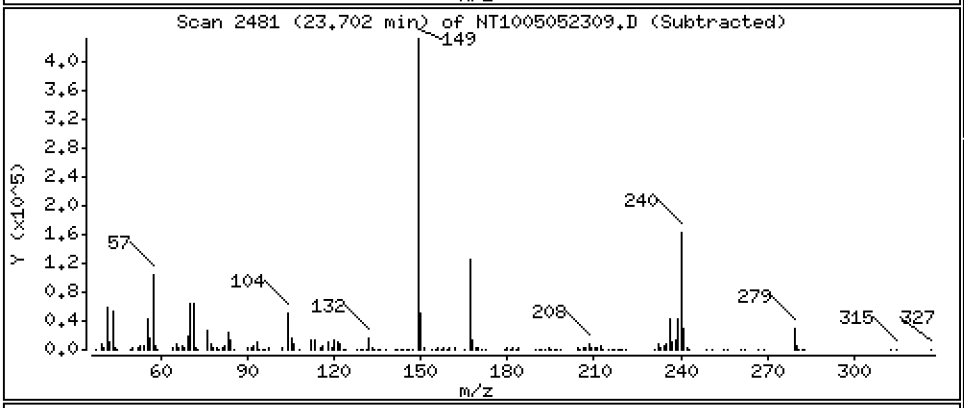
Column diameter: 0.25

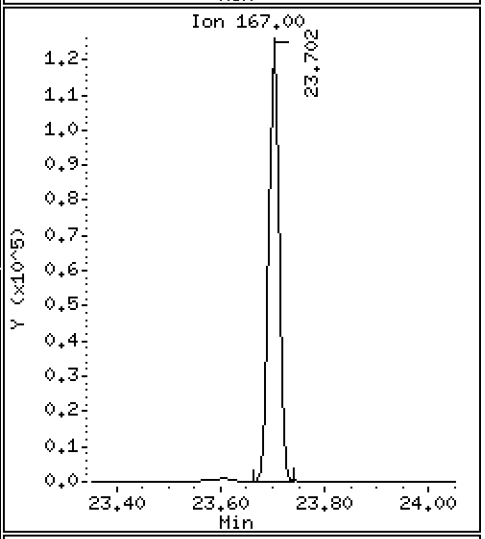
72 bis(2-Ethylhexyl)phthalate

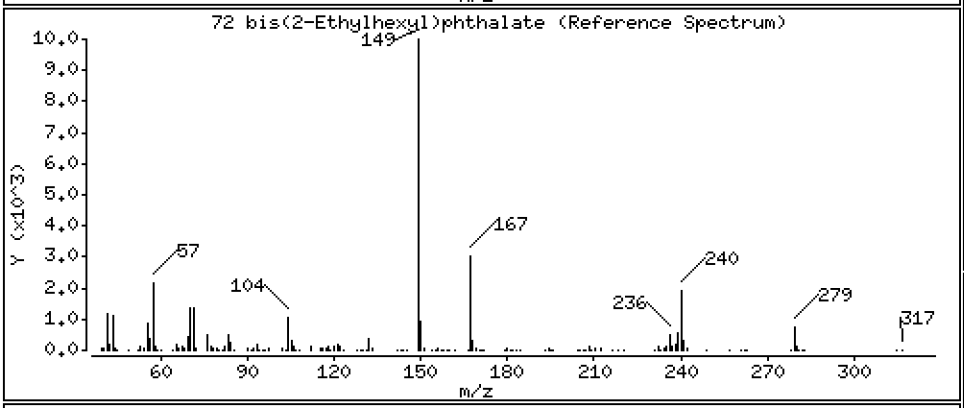
Concentration: 4.479 ug/mL

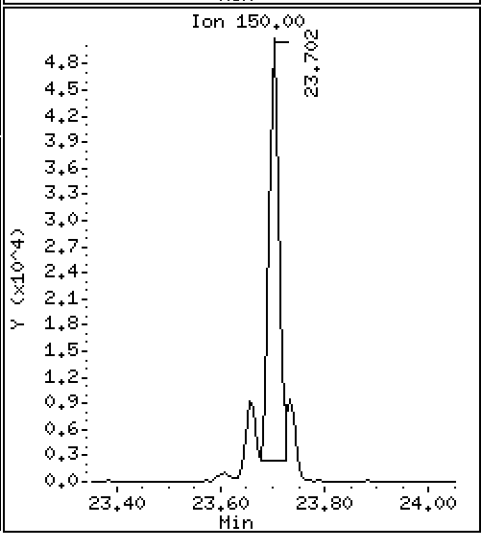


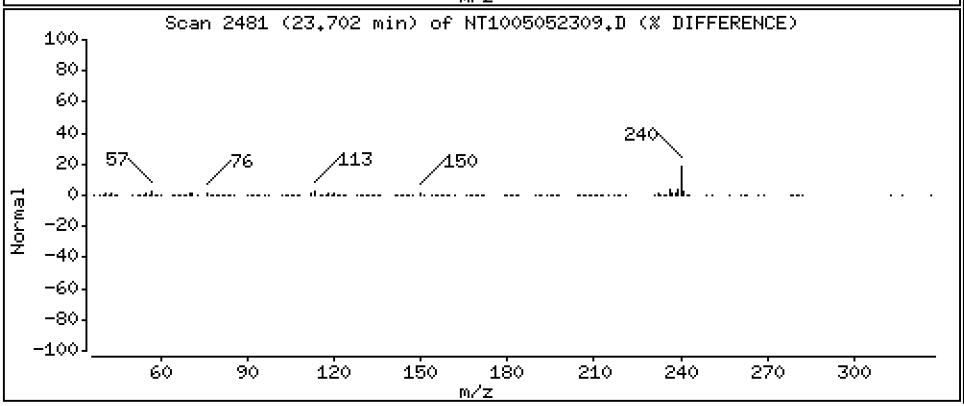












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

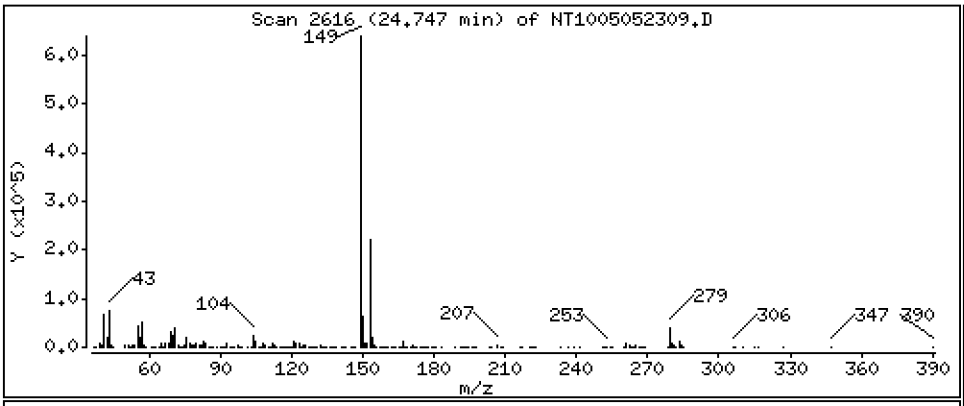
Operator: VTS

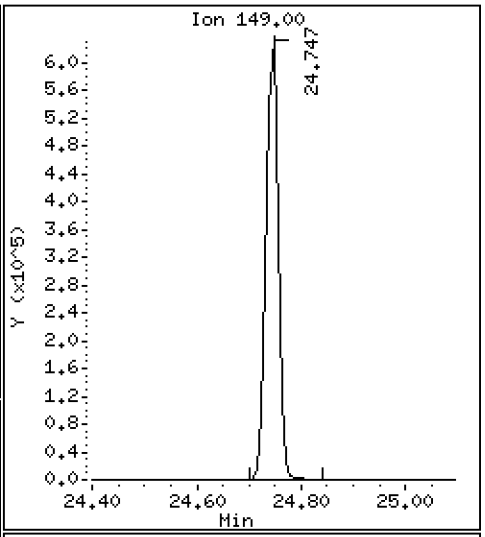
Column phase: ZB-5msi

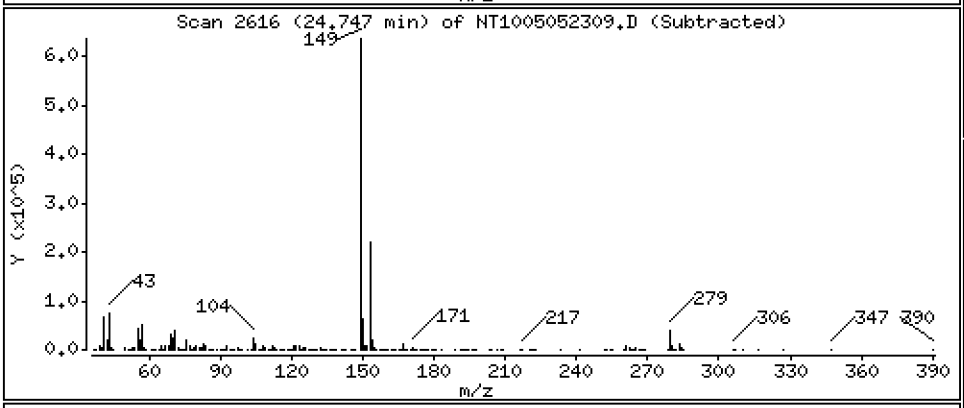
Column diameter: 0.25

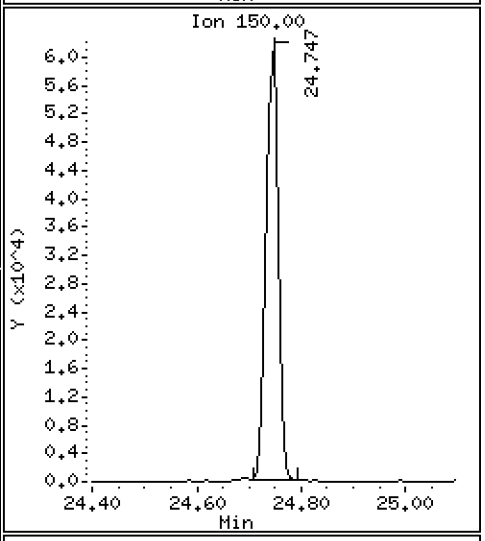
73 Di-n-octylphthalate

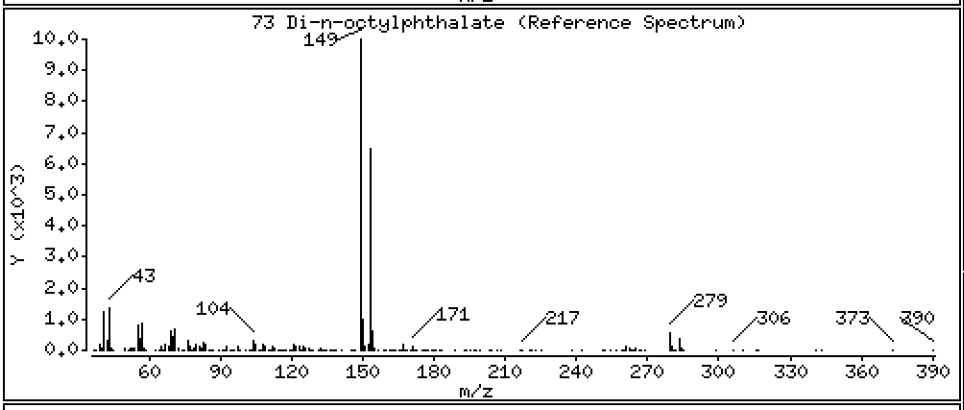
Concentration: 4.355 ug/mL

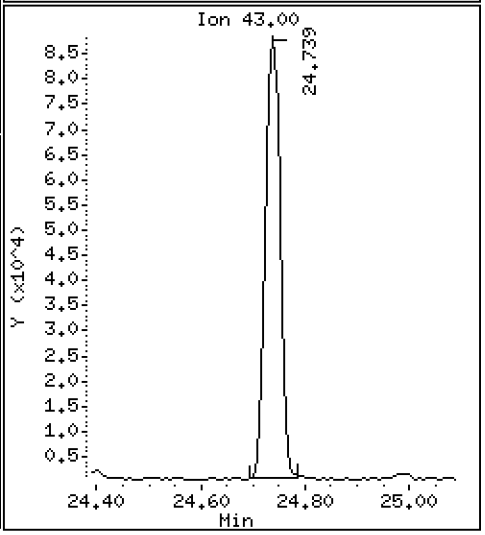


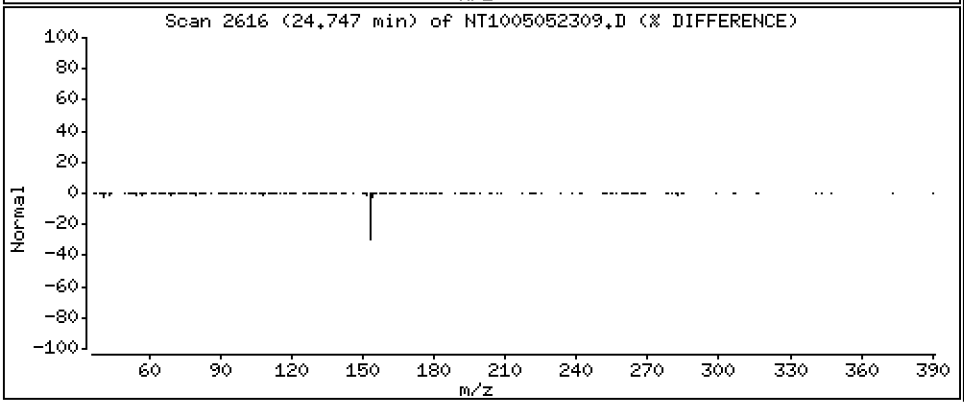












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

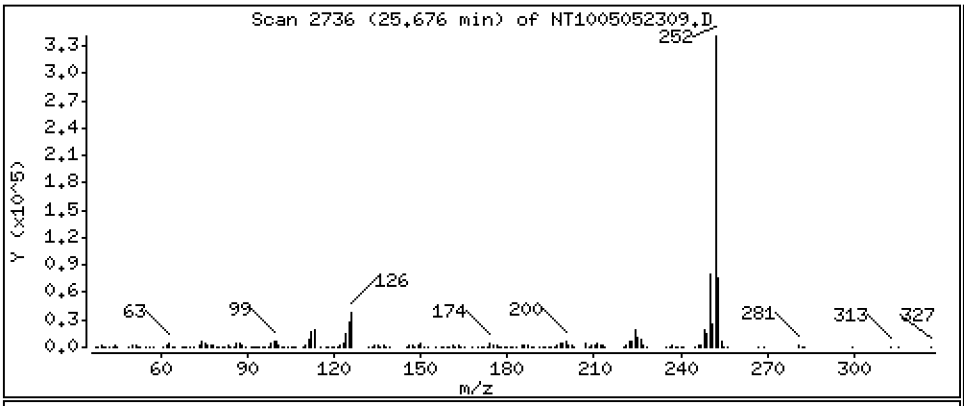
Operator: VTS

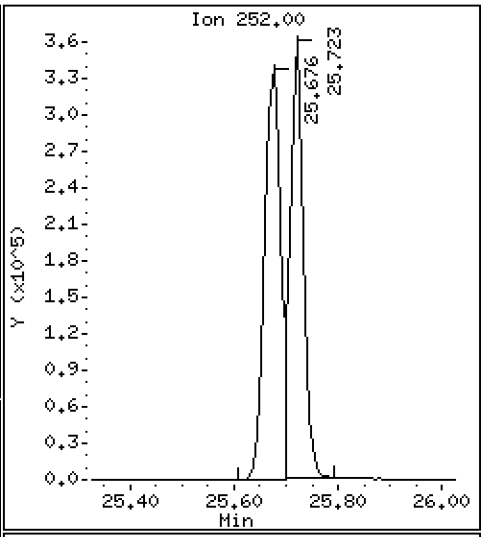
Column phase: ZB-5msi

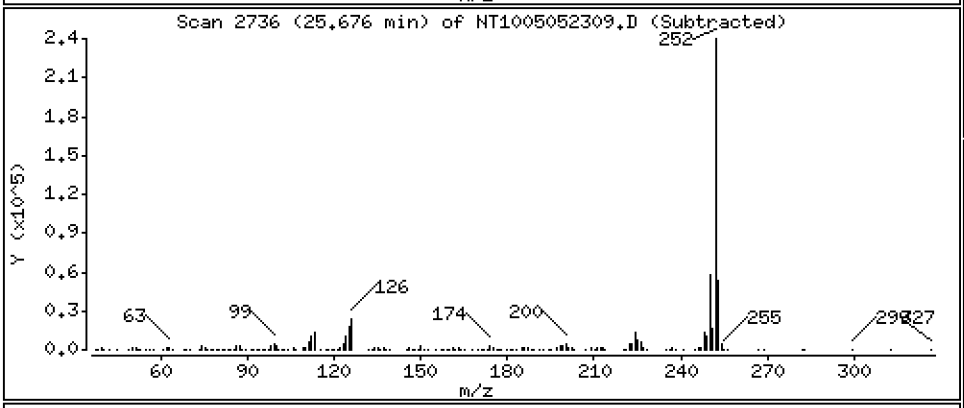
Column diameter: 0.25

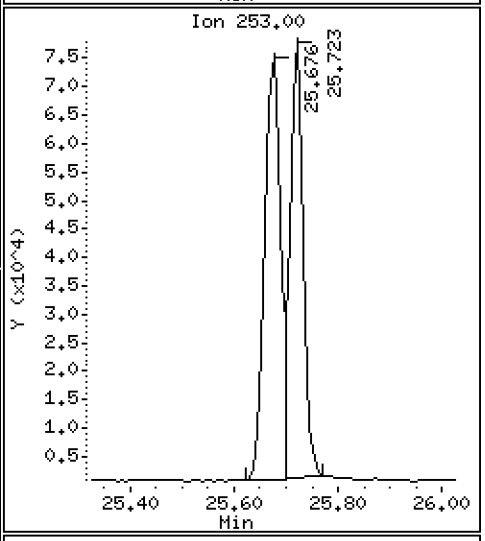
74 Benzo(b)fluoranthene

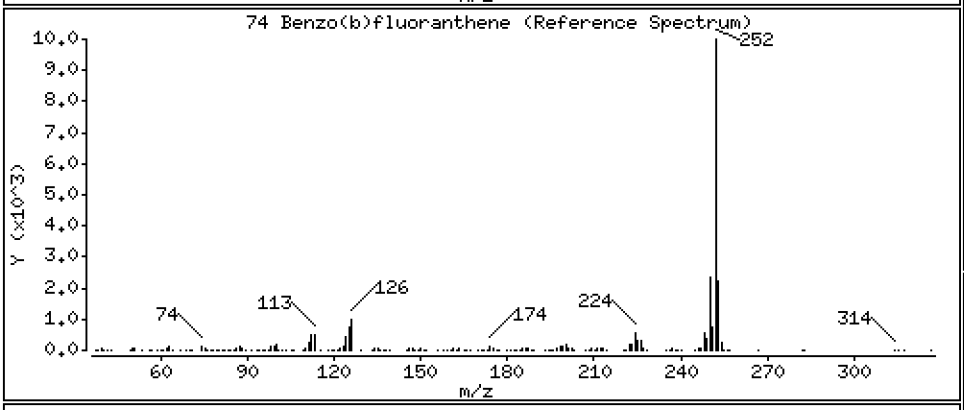
Concentration: 4.207 ug/mL

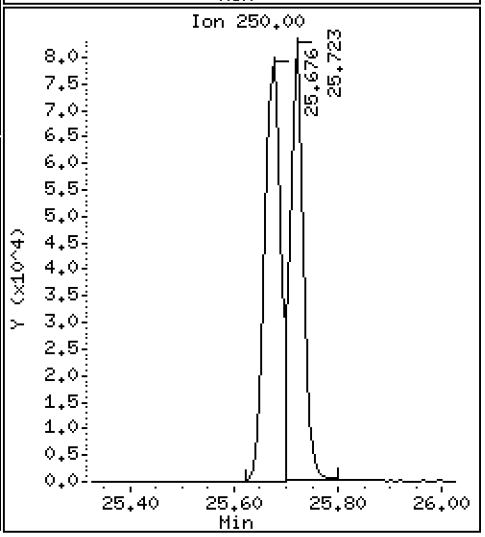


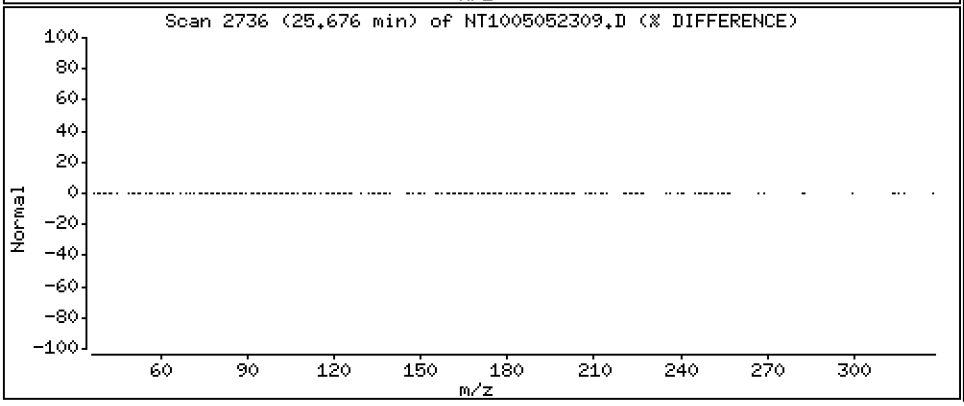












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

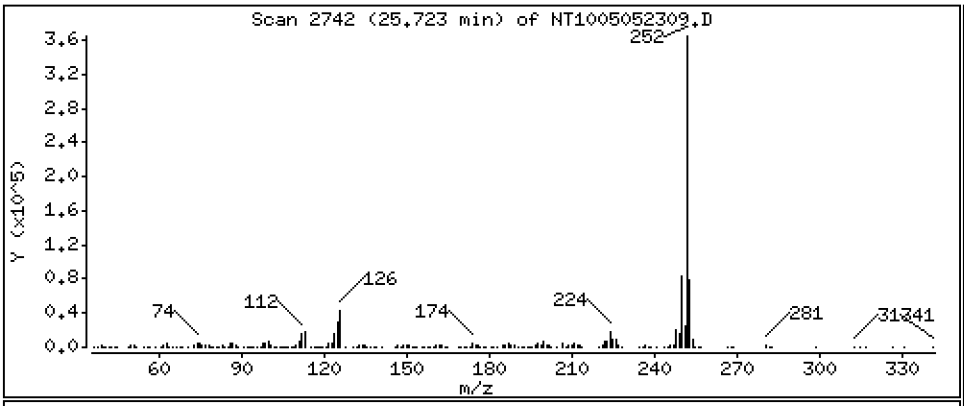
Operator: VTS

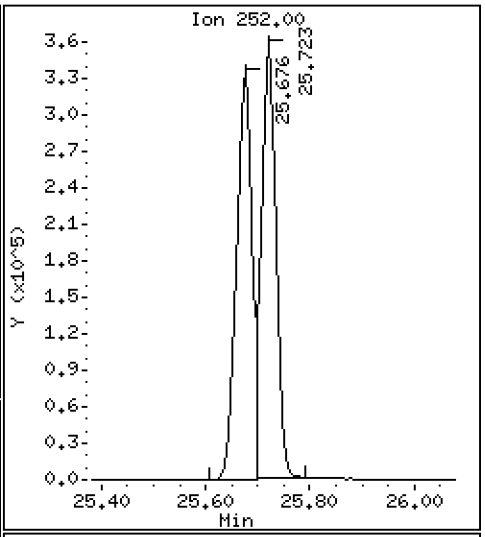
Column phase: ZB-5msi

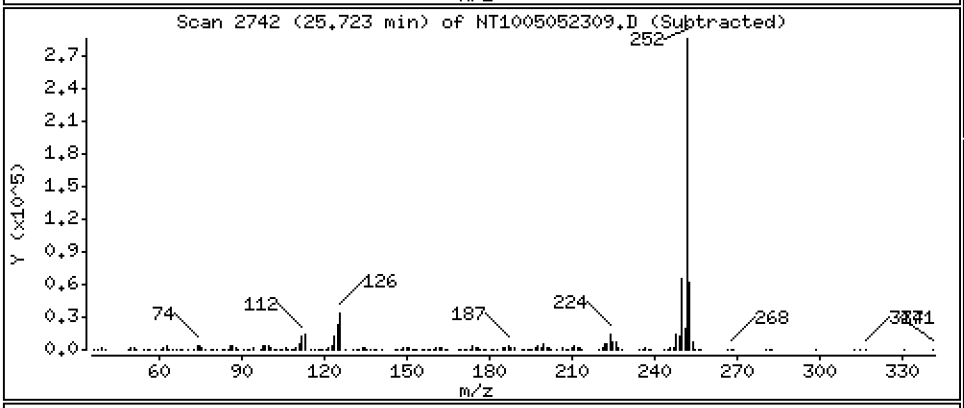
Column diameter: 0.25

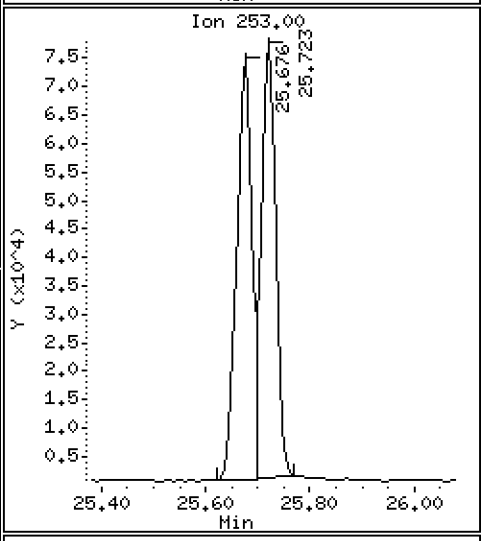
75 Benzo(k)fluoranthene

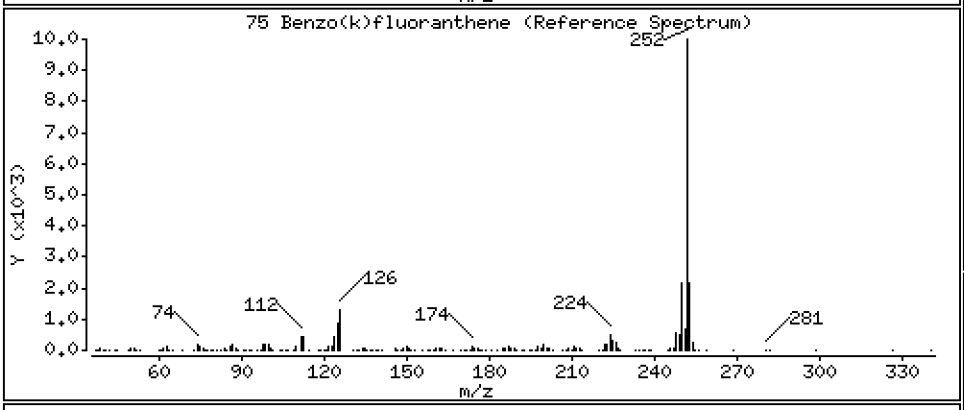
Concentration: 3.952 ug/mL

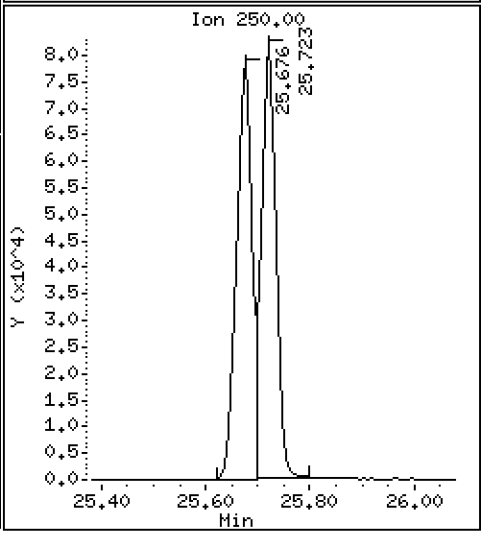


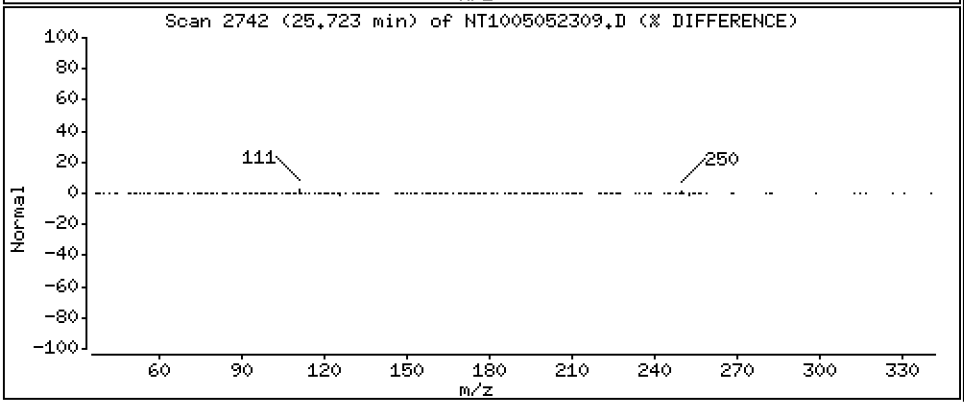












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

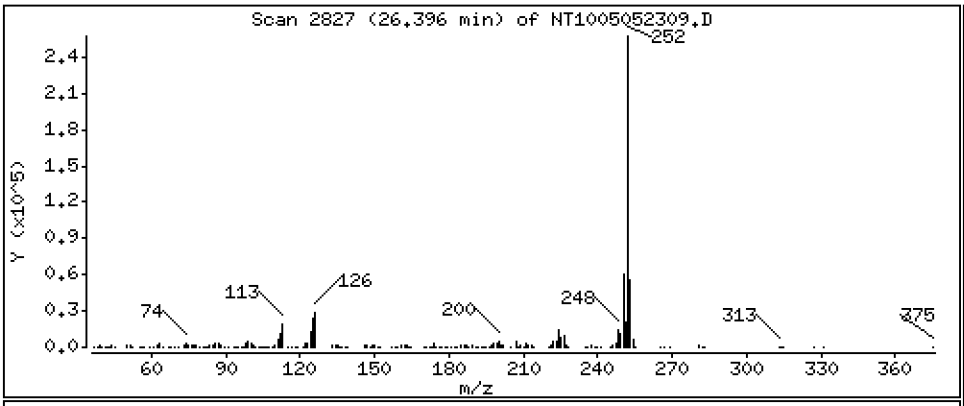
Operator: VTS

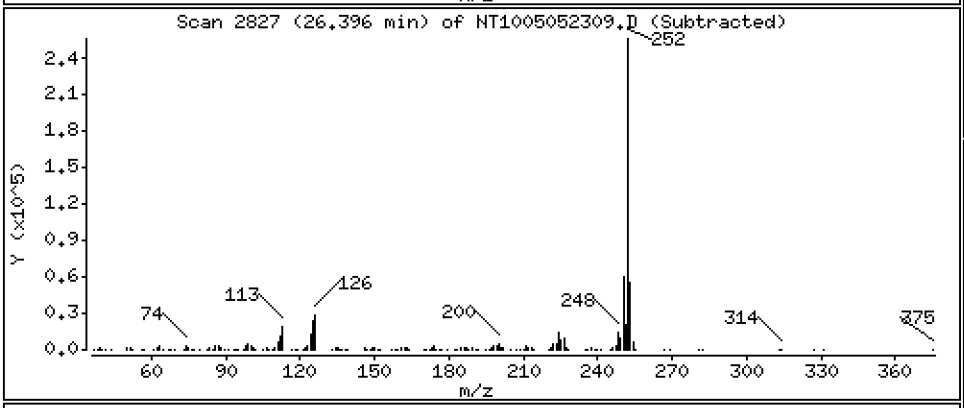
Column phase: ZB-5msi

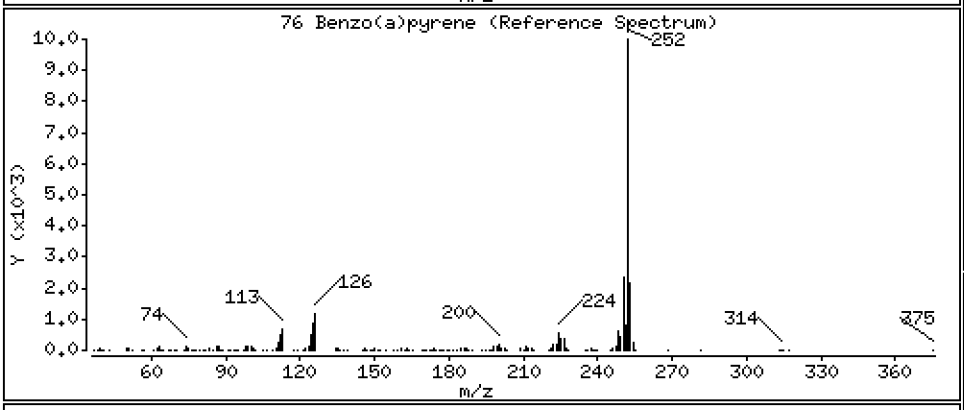
Column diameter: 0.25

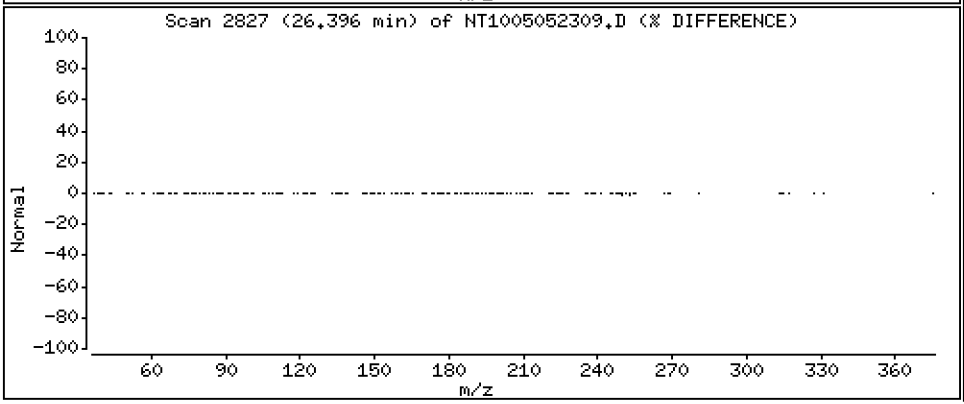
76 Benzo(a)pyrene

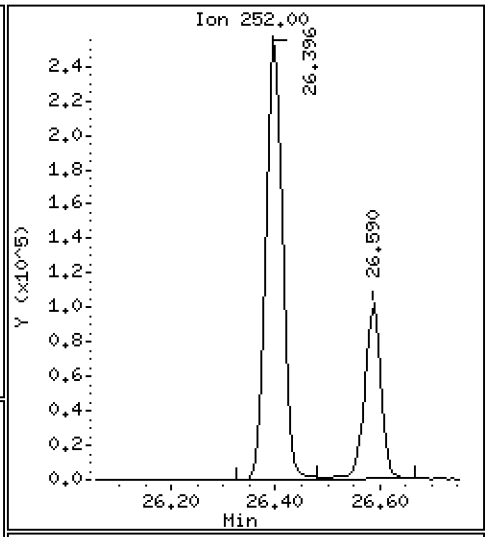
Concentration: 3.869 ug/mL

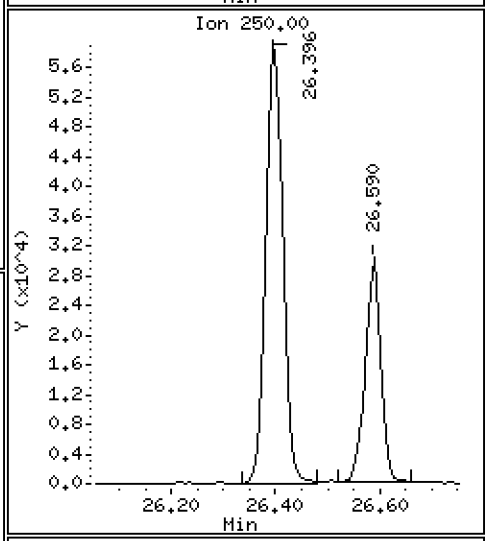


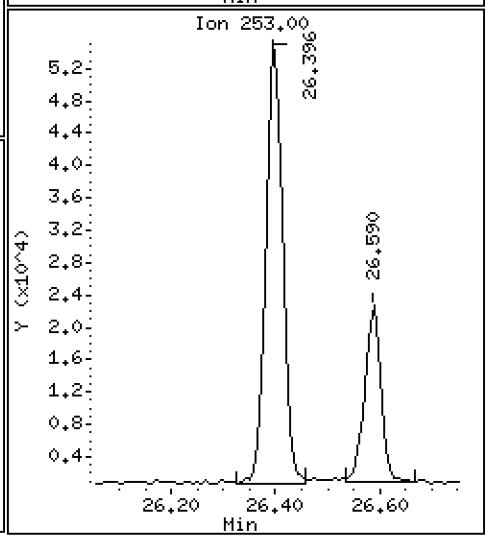












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

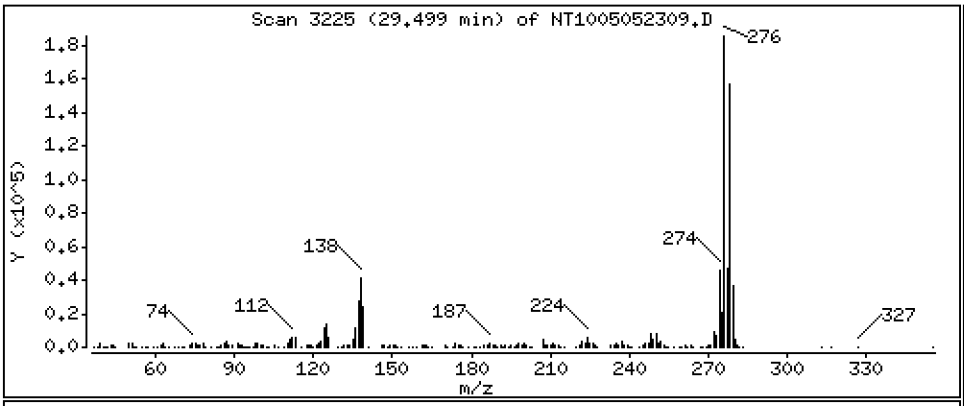
Operator: VTS

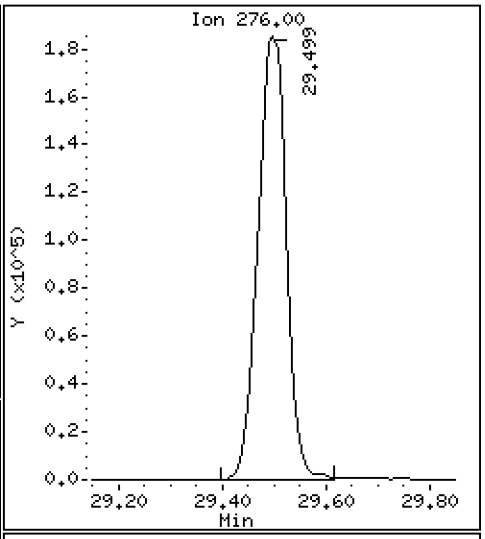
Column phase: ZB-5msi

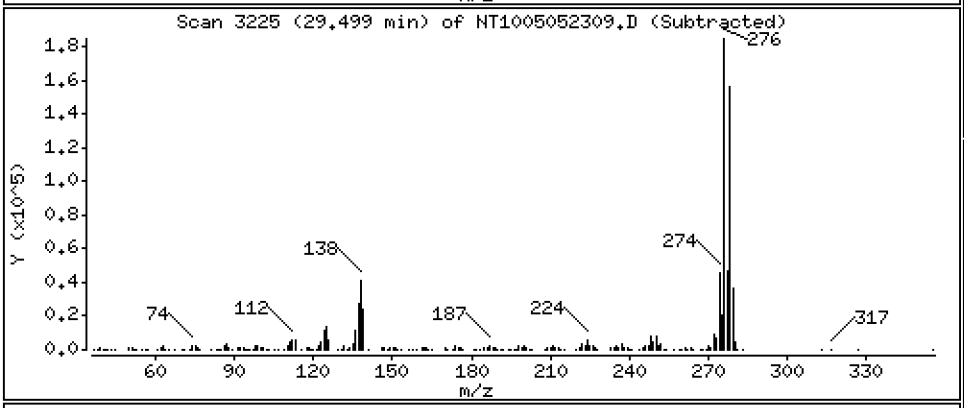
Column diameter: 0.25

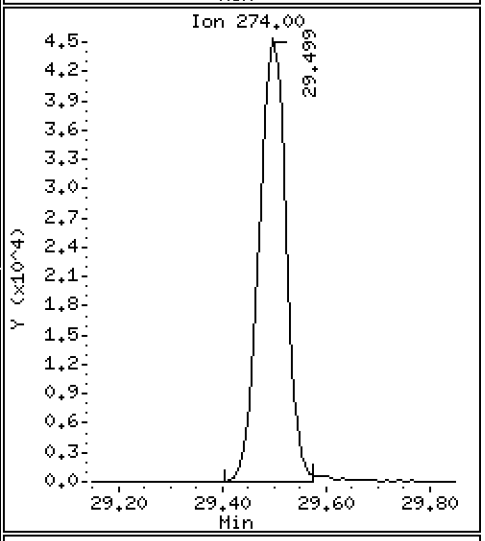
78 Indeno(1,2,3-cd)pyrene

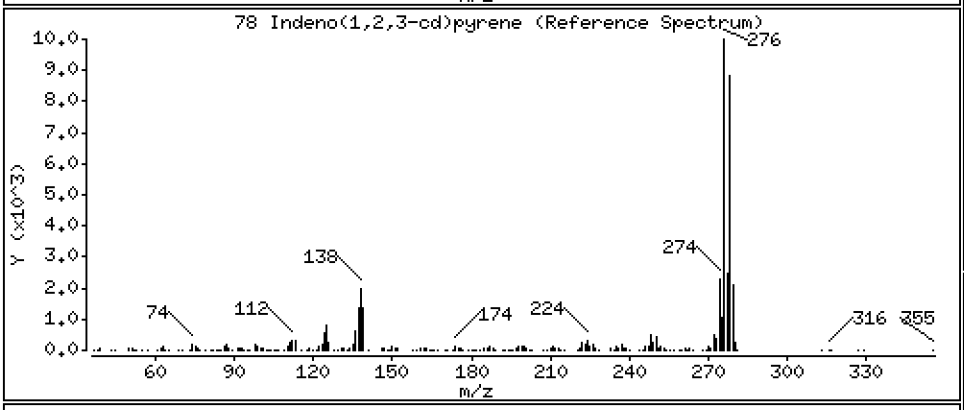
Concentration: 4.057 ug/mL

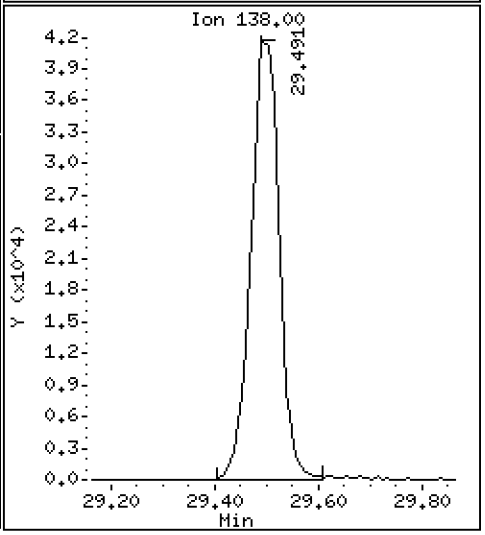


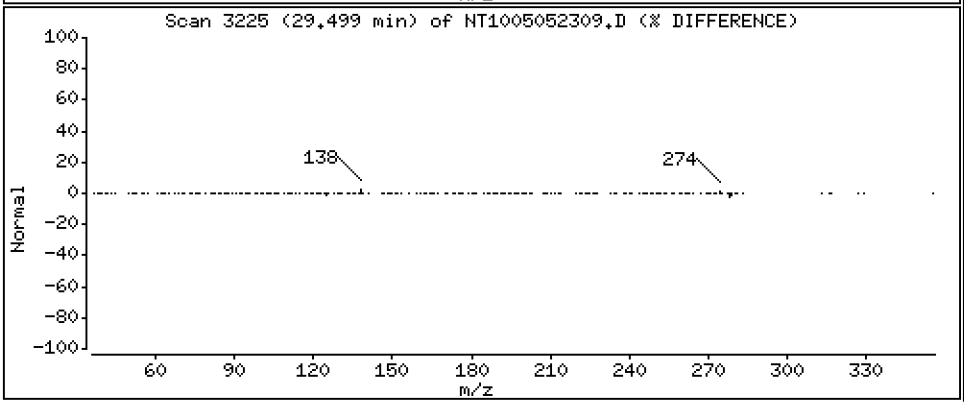












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

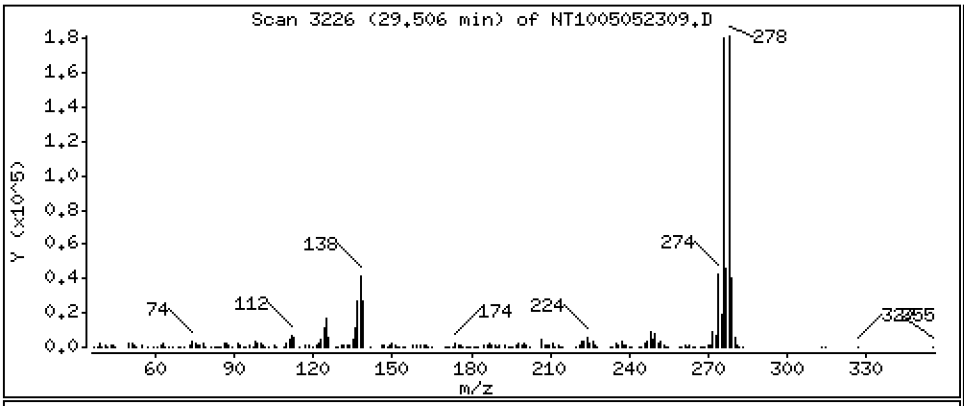
Operator: VTS

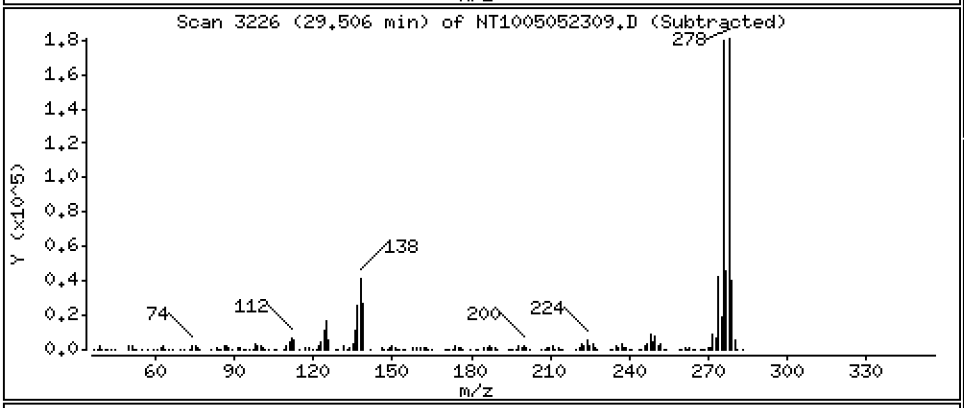
Column phase: ZB-5msi

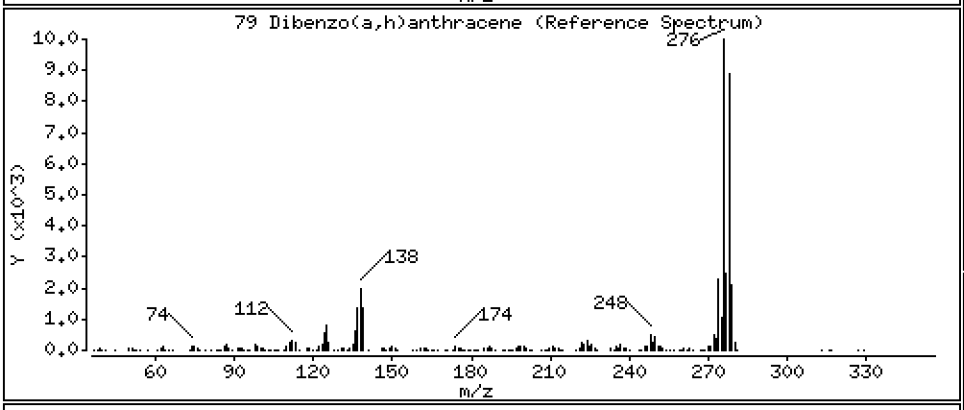
Column diameter: 0.25

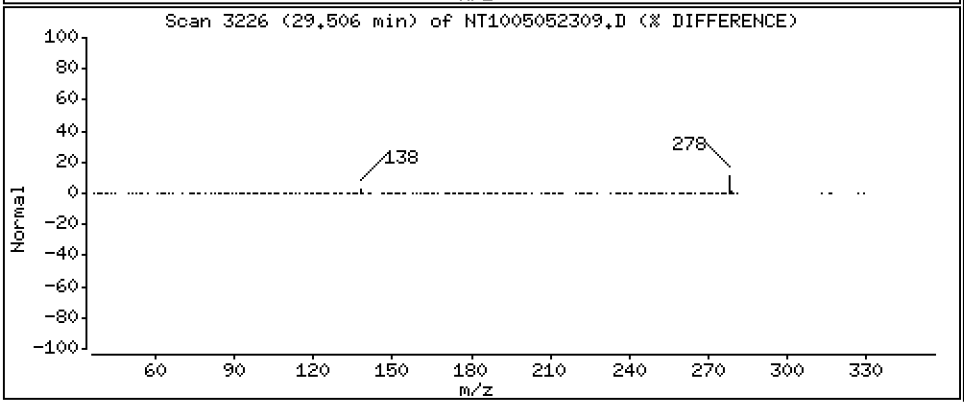
79 Dibenzo(a,h)anthracene

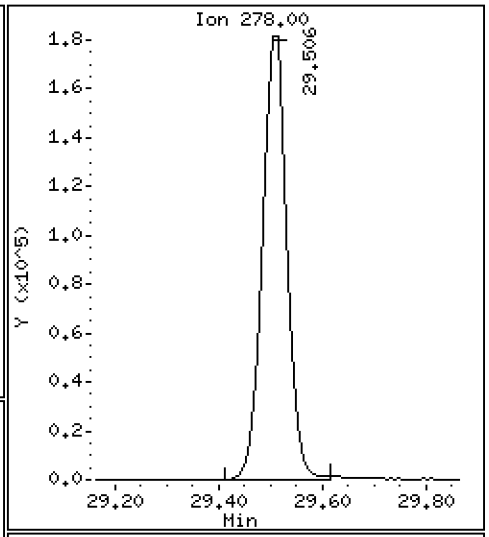
Concentration: 4.039 ug/mL

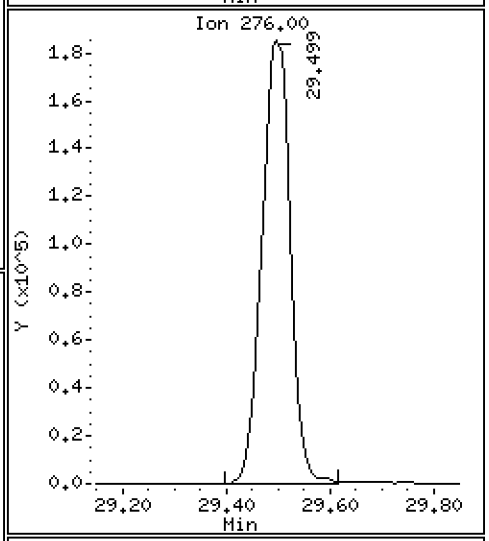


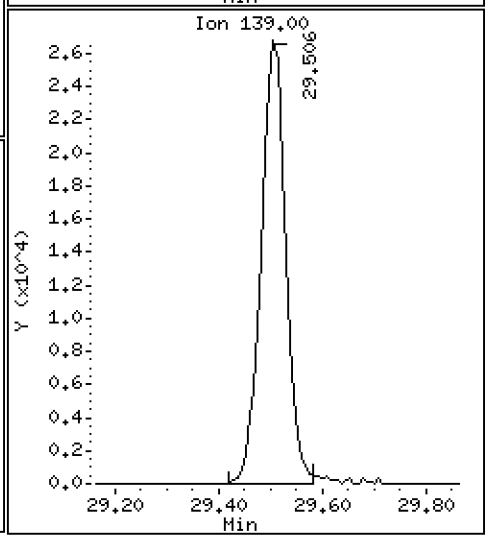












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

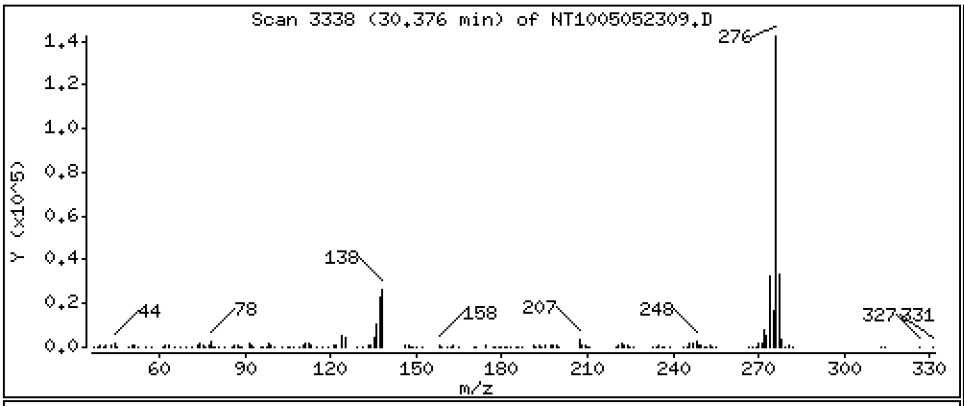
Operator: VTS

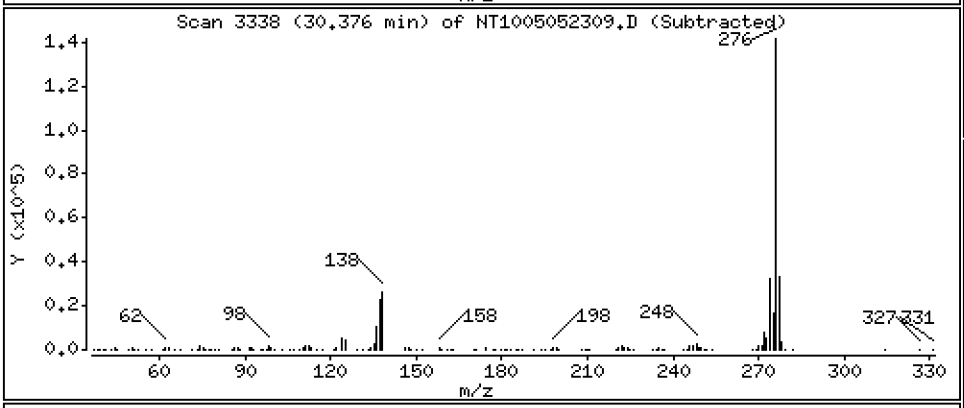
Column phase: ZB-5msi

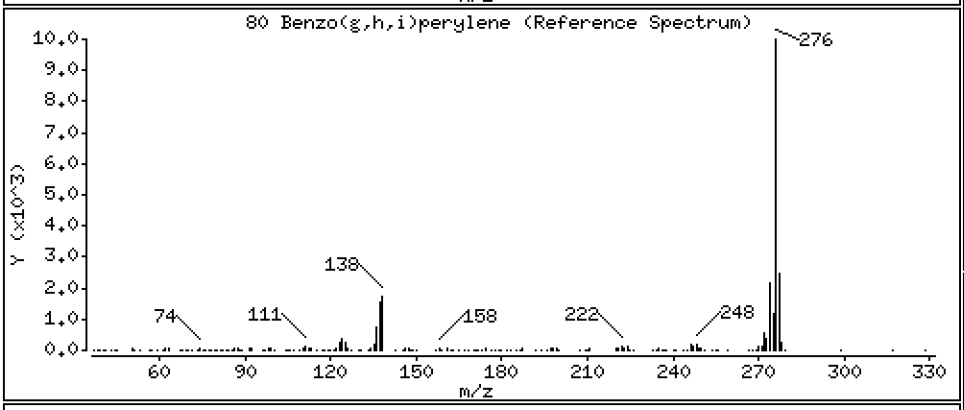
Column diameter: 0.25

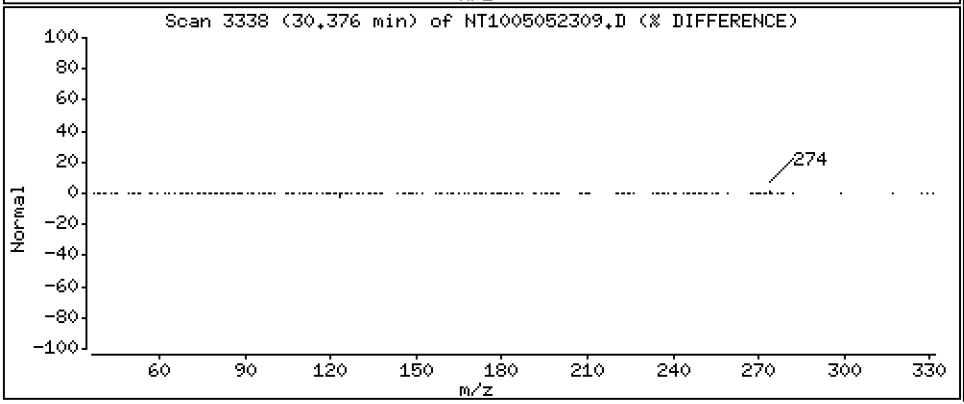
80 Benzo(g,h,i)perylene

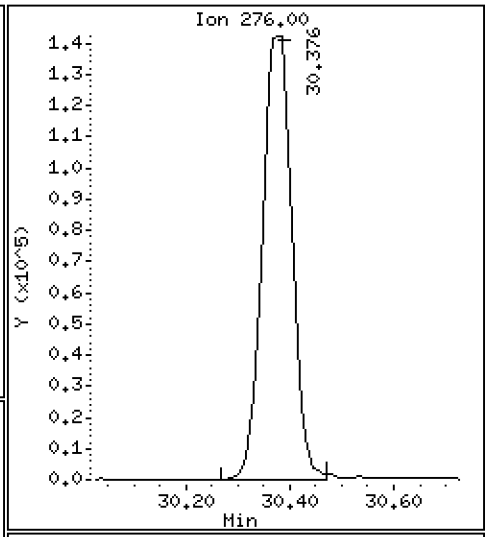
Concentration: 4.082 ug/mL

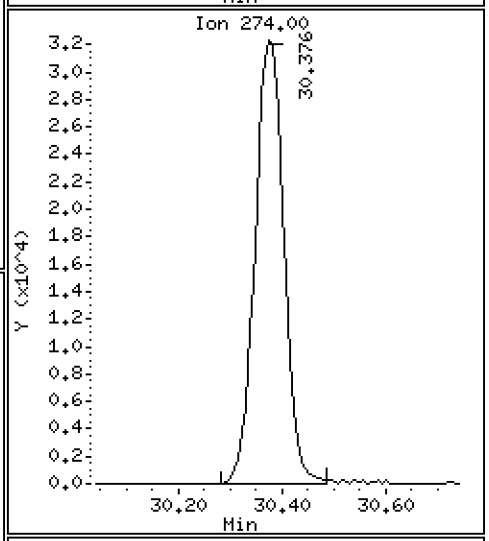


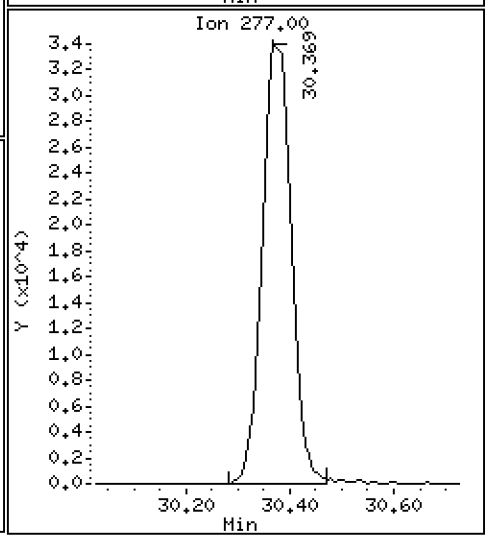












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

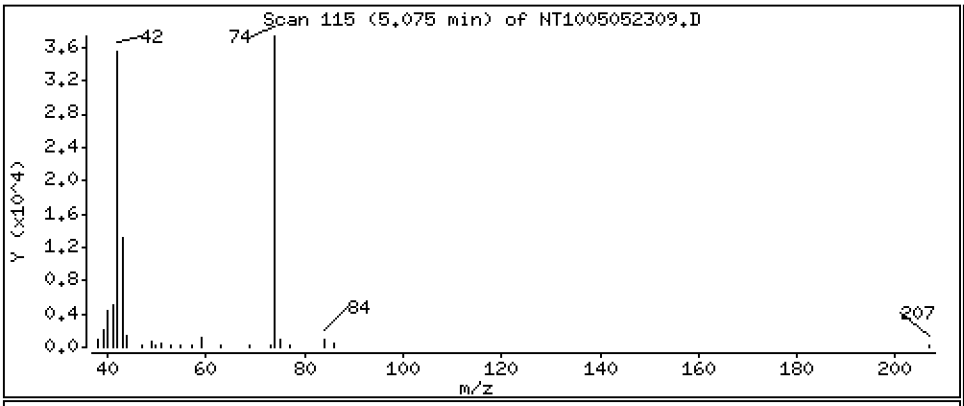
Operator: VTS

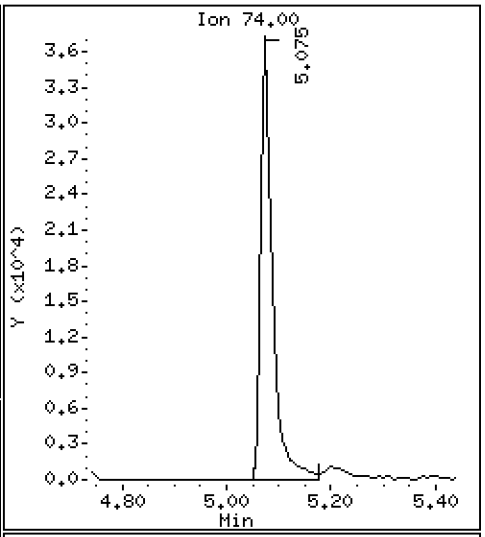
Column phase: ZB-5msi

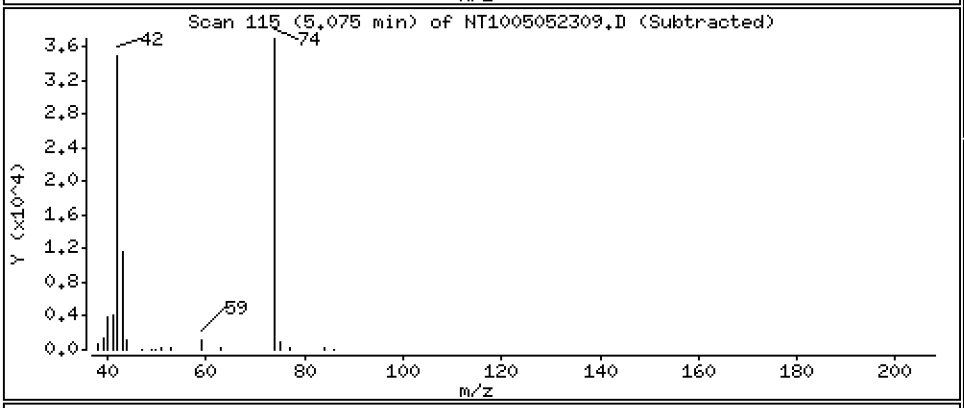
Column diameter: 0.25

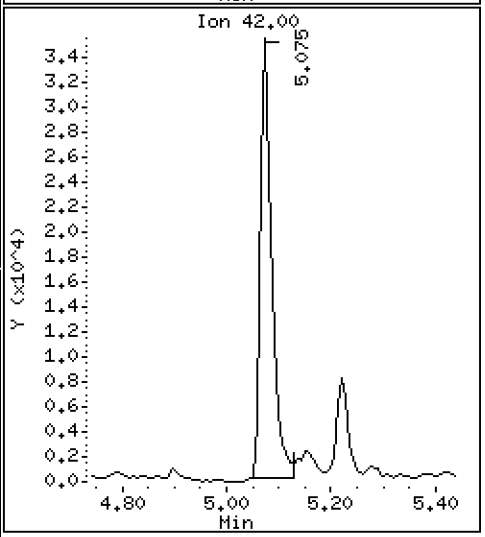
90 N-Nitrosodimethylamine

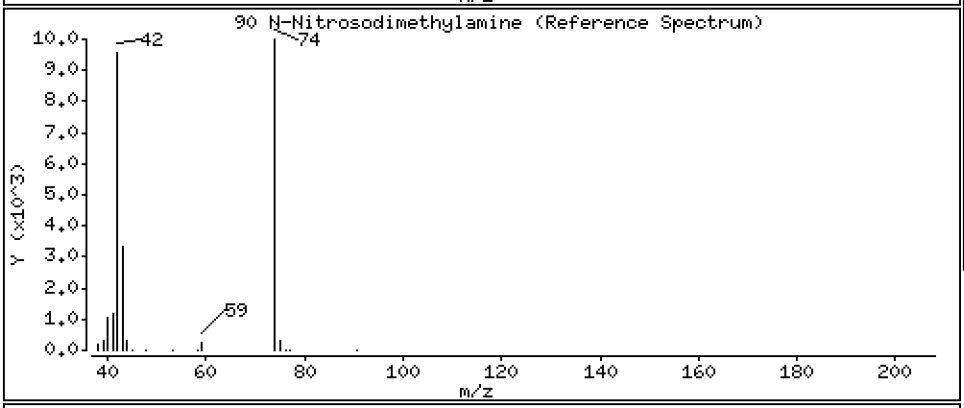
Concentration: 2.188 ug/mL

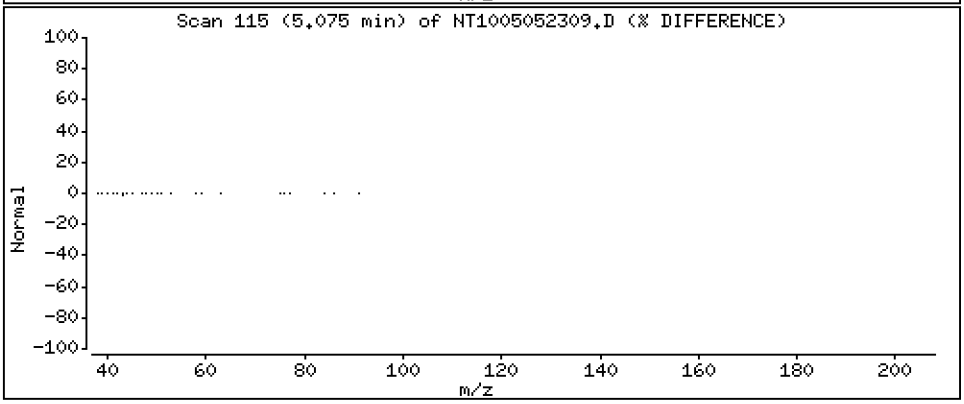












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

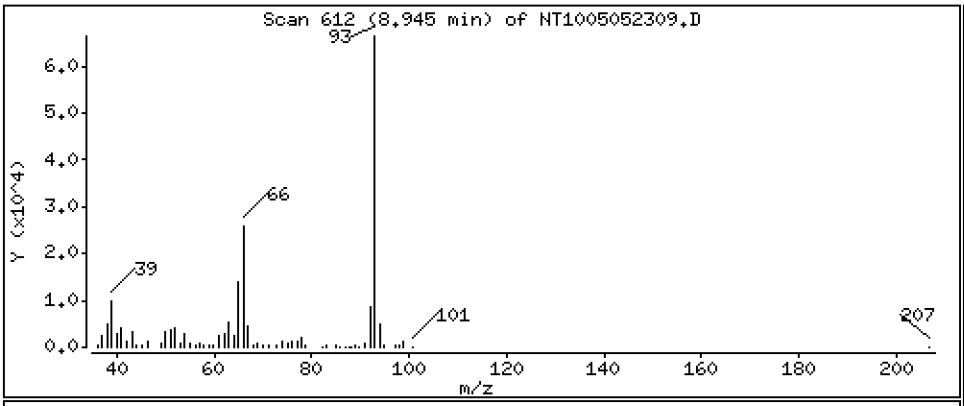
Operator: VTS

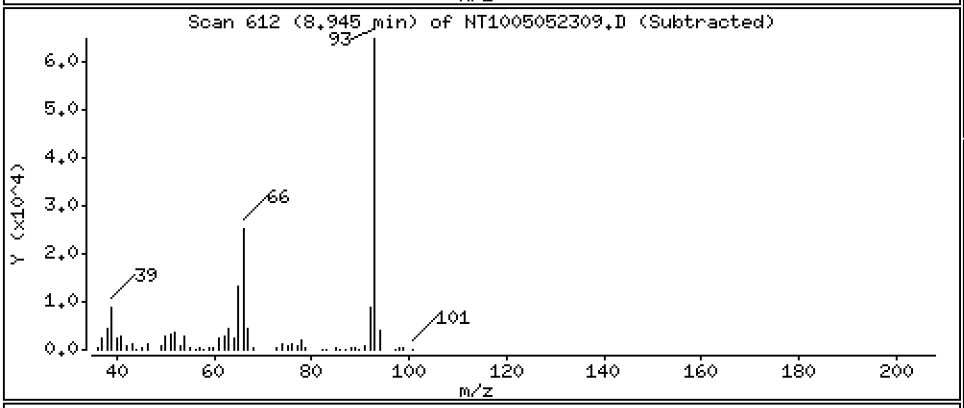
Column phase: ZB-5msi

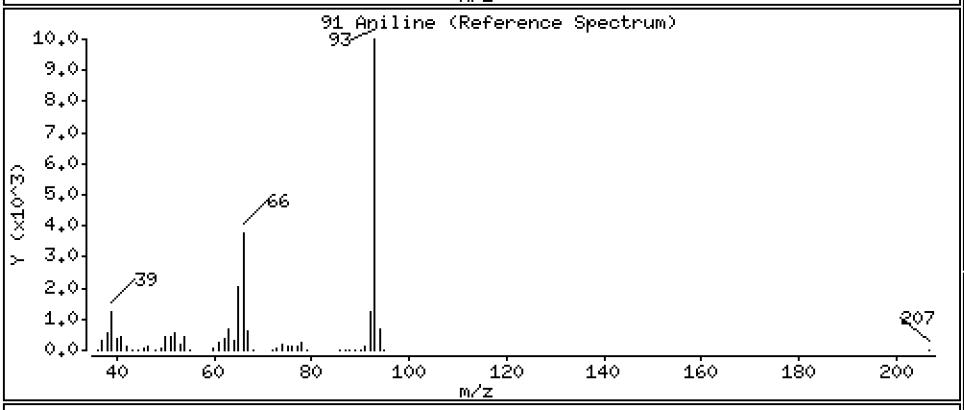
Column diameter: 0.25

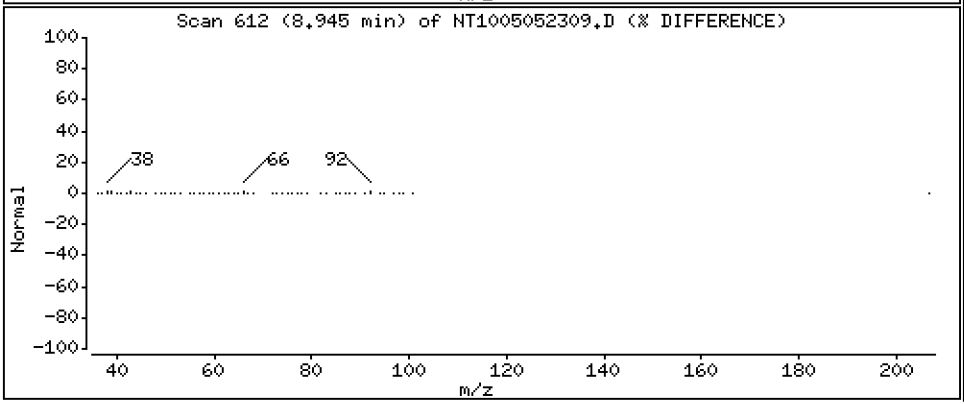
91 Aniline

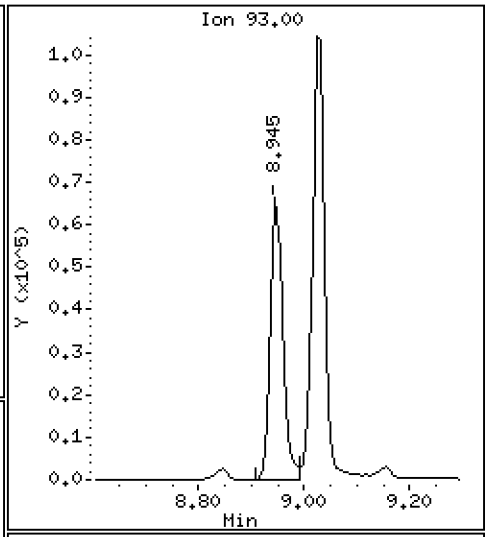
Concentration: 2.037 ug/mL

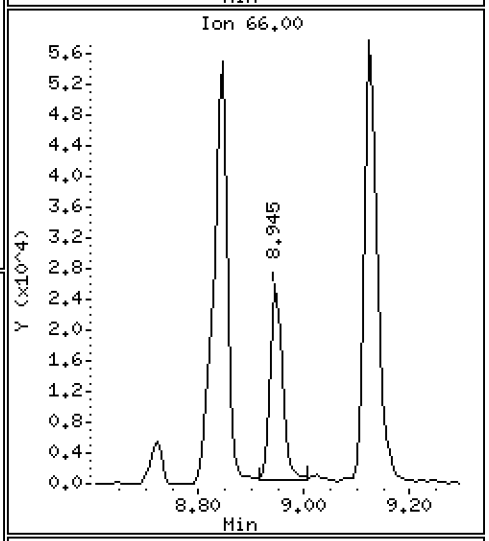


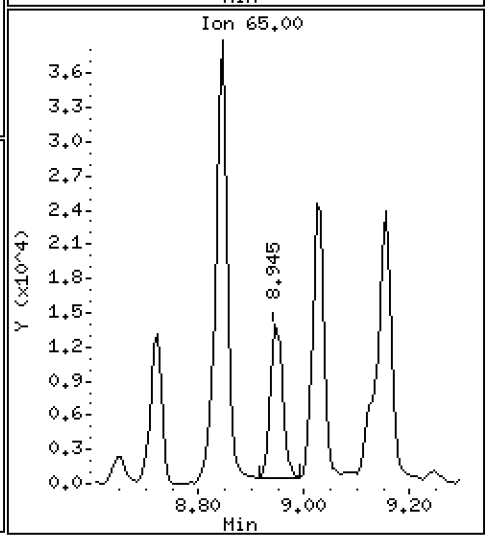












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

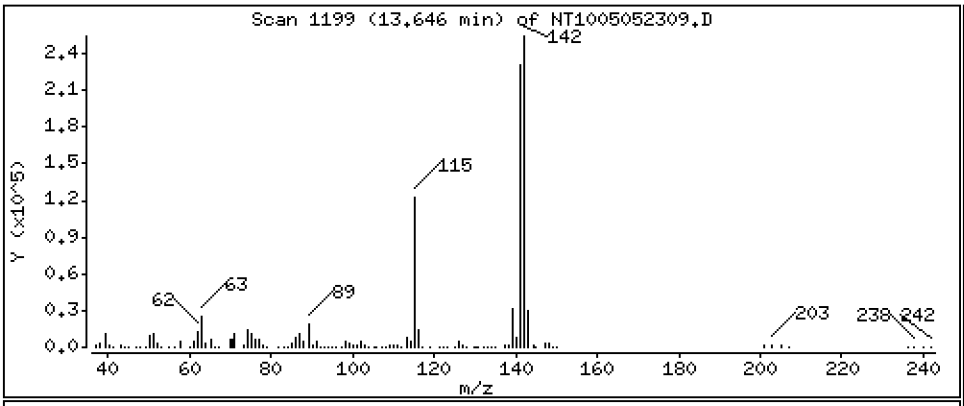
Operator: VTS

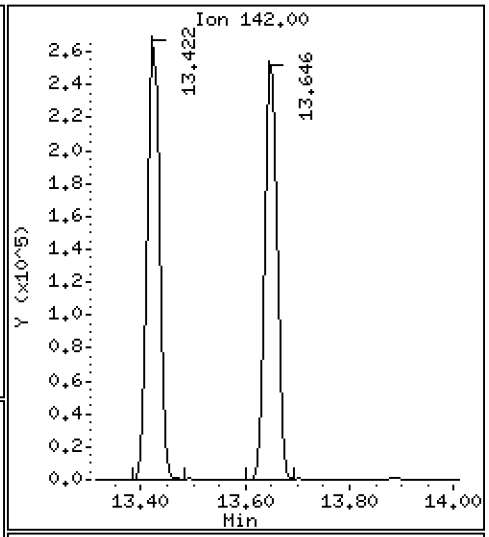
Column phase: ZB-5msi

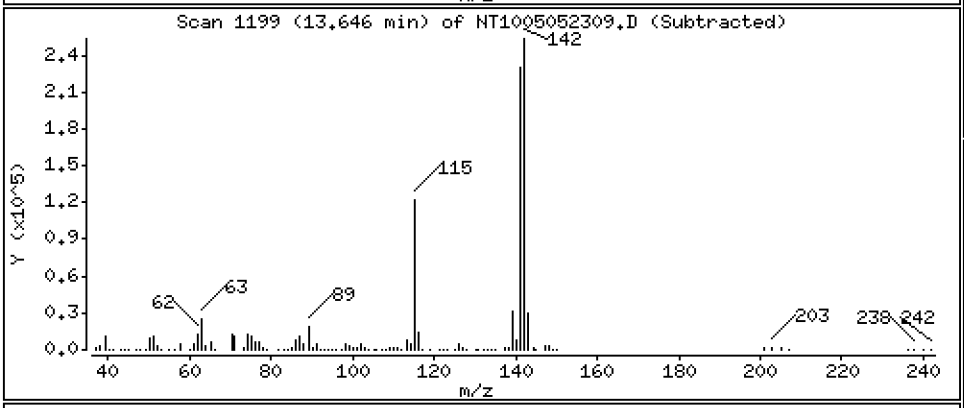
Column diameter: 0.25

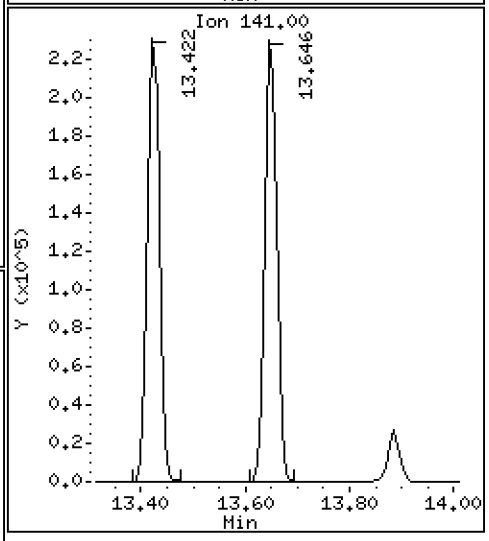
105 1-methylnaphthalene

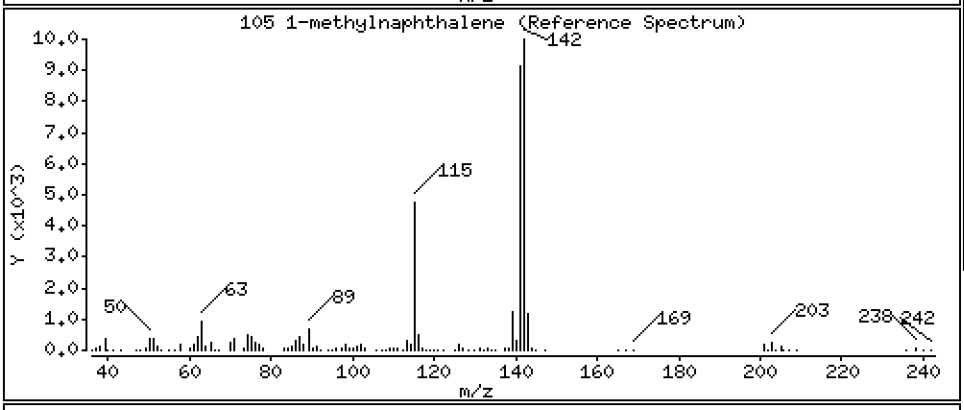
Concentration: 3.556 ug/mL

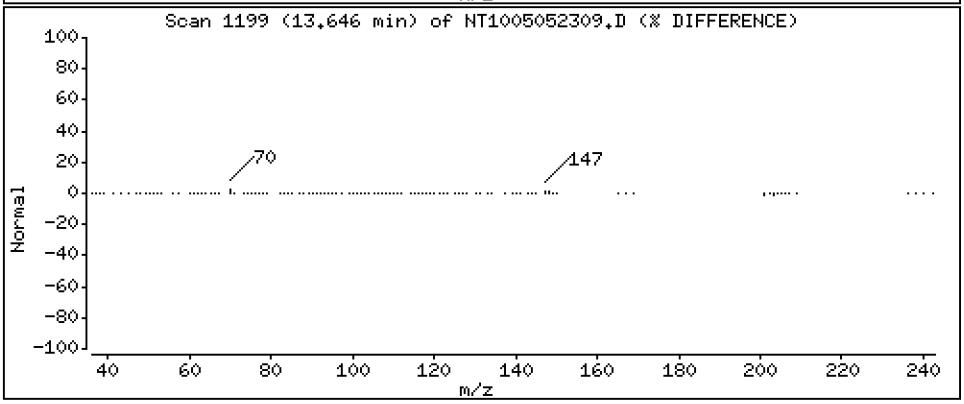












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

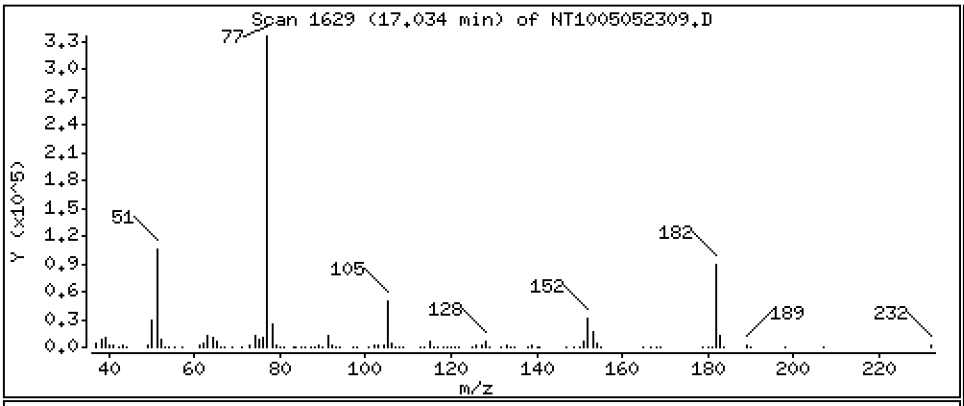
Operator: VTS

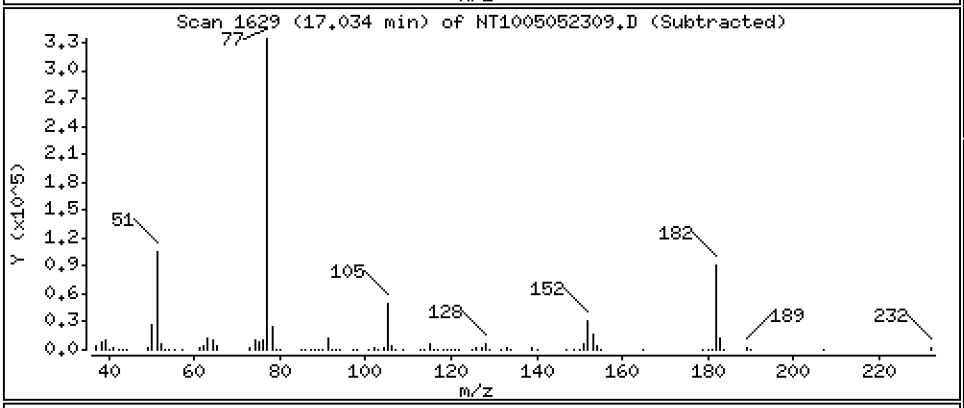
Column phase: ZB-5msi

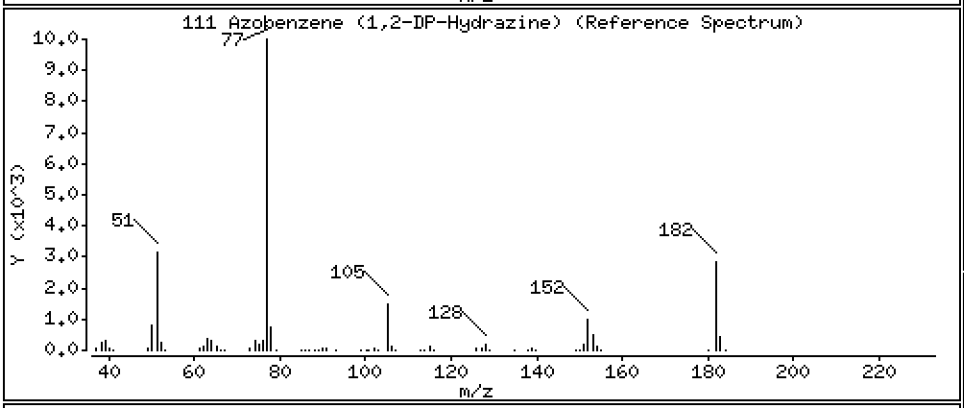
Column diameter: 0.25

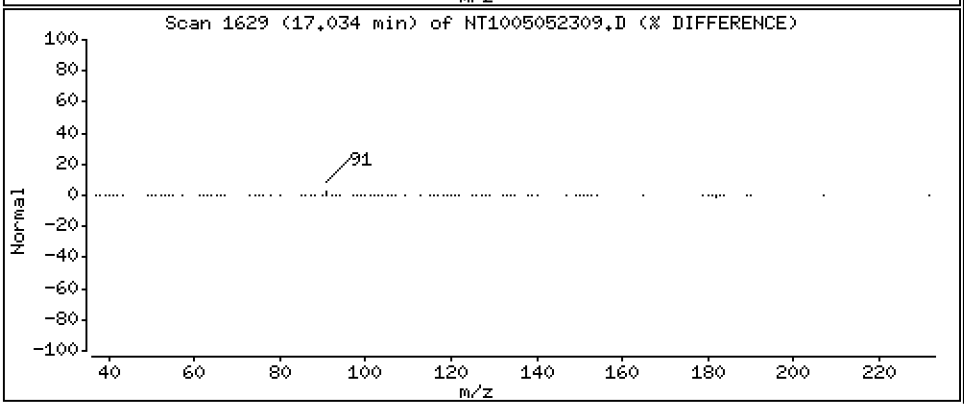
111 Azobenzene (1,2-DP-Hydrazine)

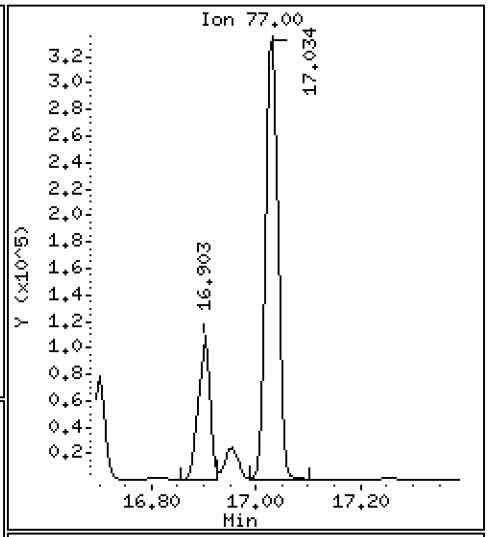
Concentration: 4.108 ug/mL

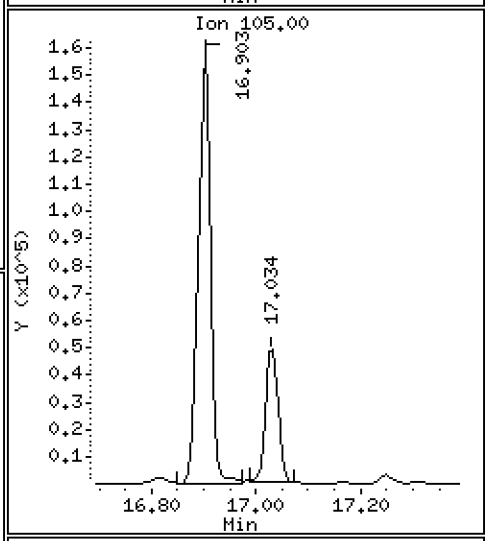


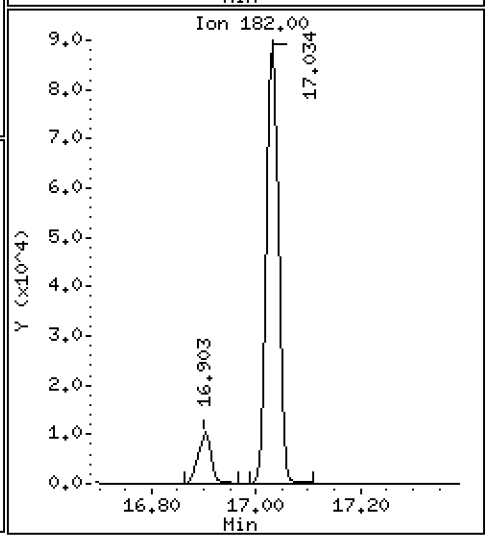












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Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

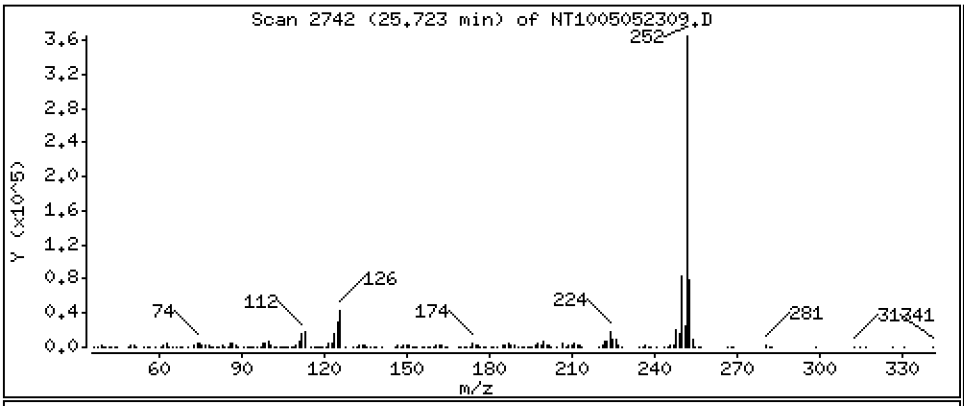
Operator: VTS

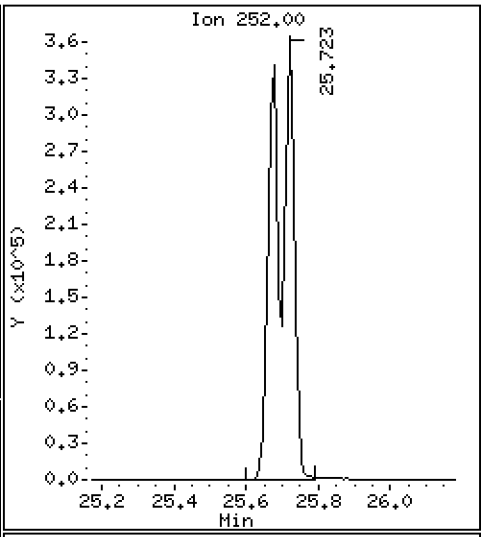
Column phase: ZB-5msi

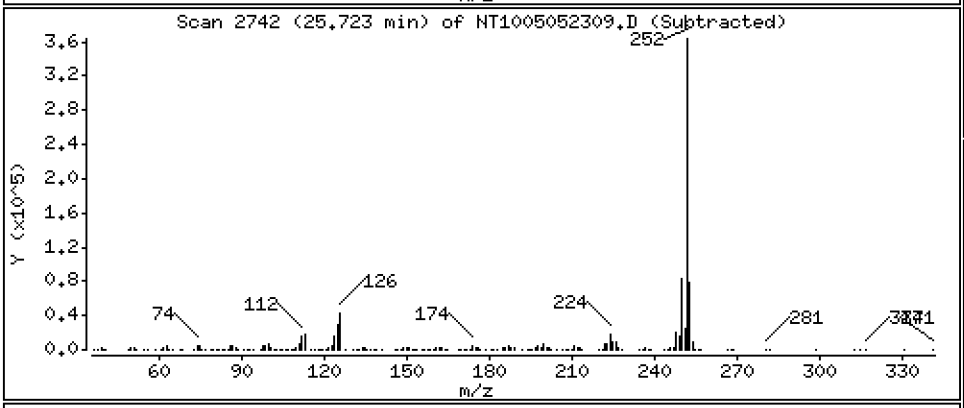
Column diameter: 0.25

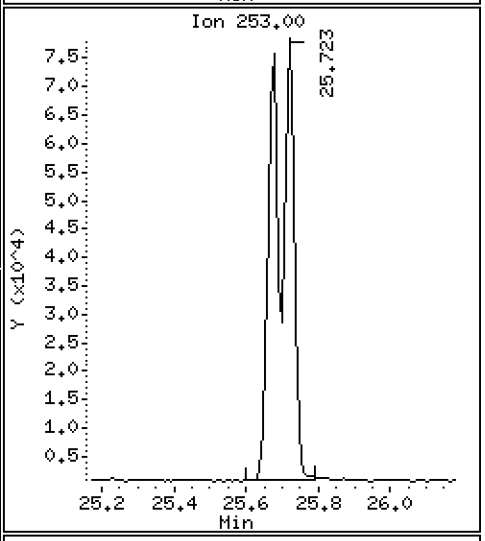
187 Total Benzofluoranthenes

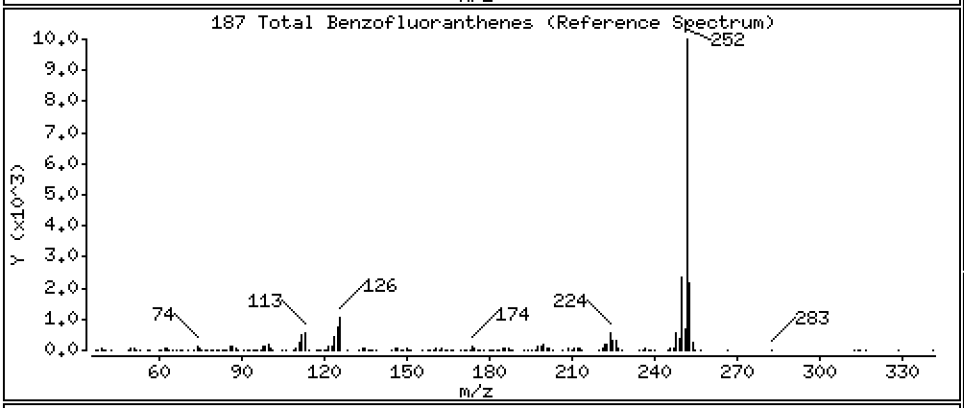
Concentration: 8.151 ug/mL

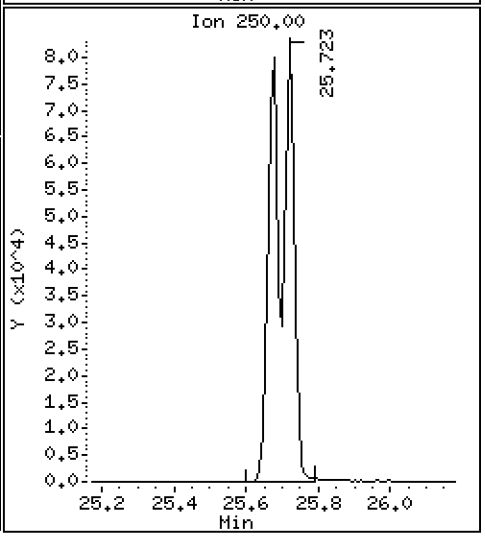


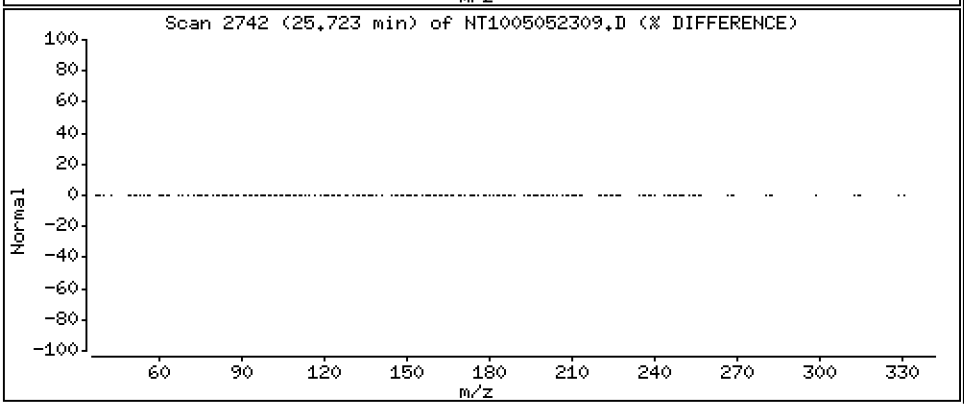












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD1

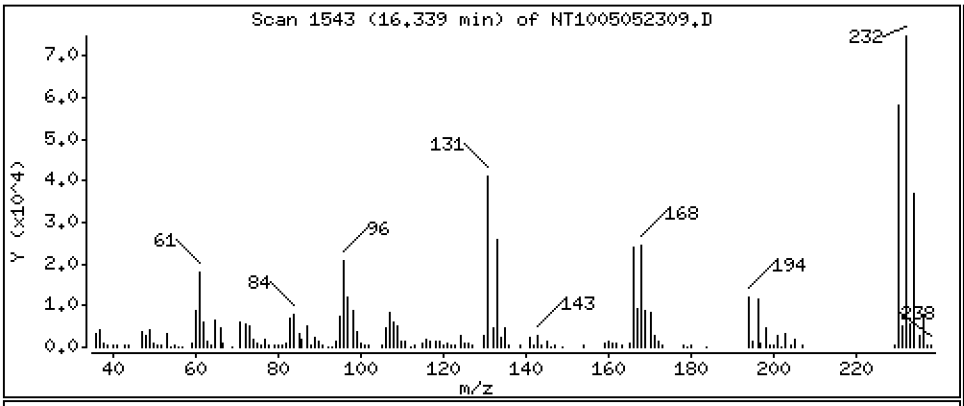
Operator: VTS

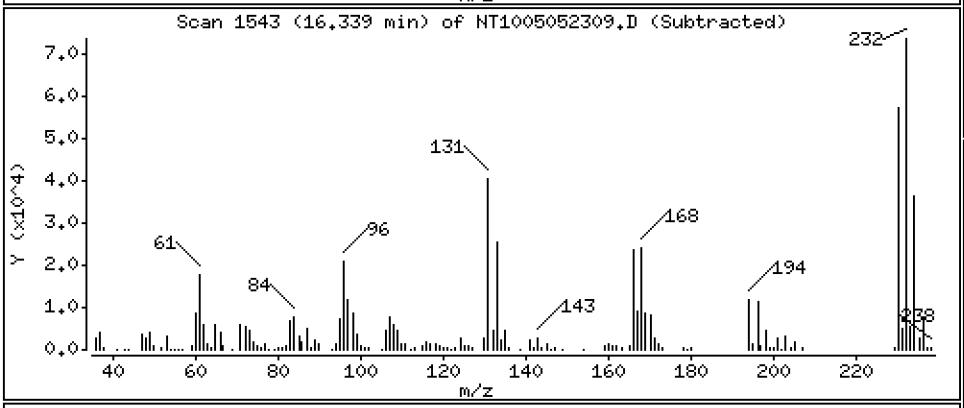
Column phase: ZB-5msi

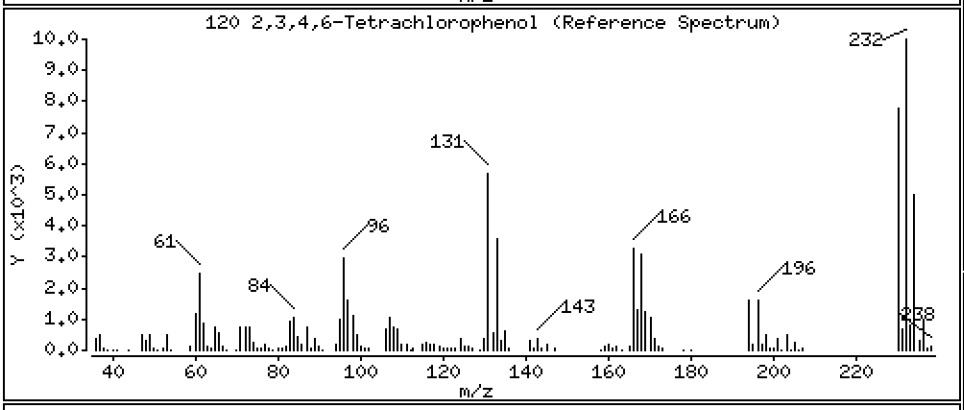
Column diameter: 0.25

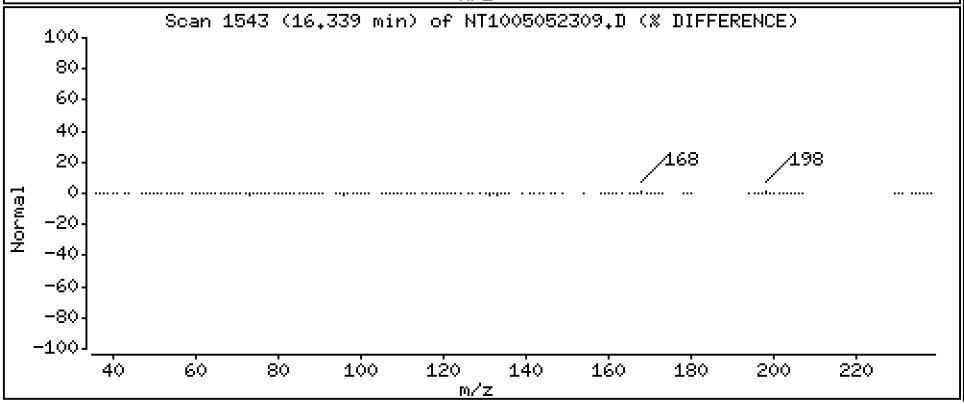
120 2,3,4,6-Tetrachlorophenol

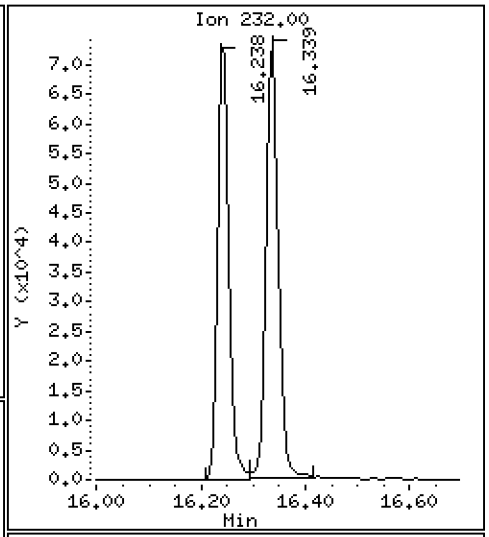
Concentration: 2.757 ug/mL

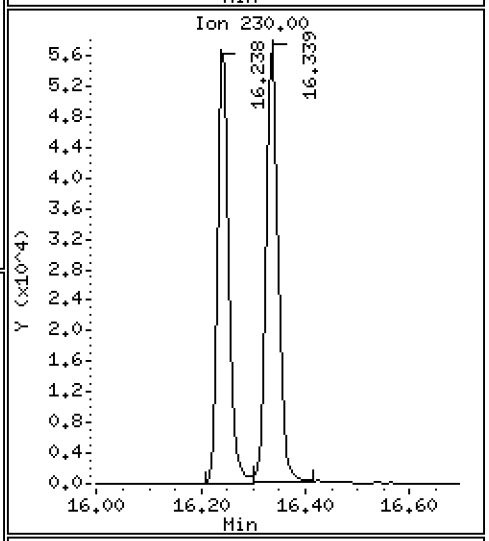


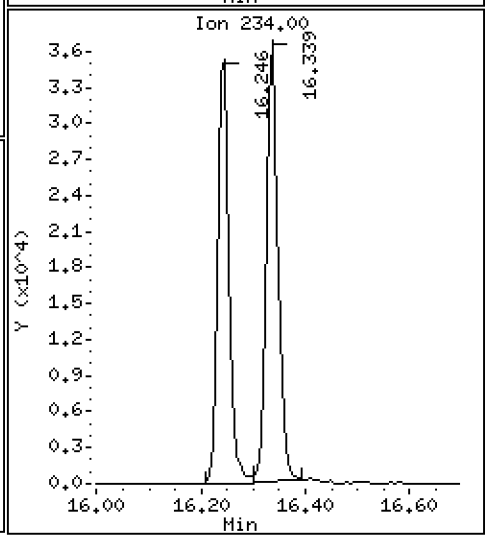












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052309.D
Lab Smp Id: BLD0329-BSD1
Inj Date : 05-MAY-2023 15:57
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0329-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.238	7.253	(1.000)	183437	3.82105	3.821	
$	2 Phenol-d5	99	8.821	8.830	(1.000)	248082	4.28625	4.286	
	3 Phenol	94	8.845	8.853	(1.000)	161949	2.61692	2.617	
$	5 2-Chlorophenol-d4	132	9.123	9.139	(1.000)	287418	5.18180	5.182	
	4 Bis(2-Chloroethyl)ether	93	9.022	9.038	(1.000)	166902	3.72719	3.727	
	6 2-Chlorophenol	128	9.154	9.162	(1.000)	170875	3.13135	3.131	
	7 1,3-Dichlorobenzene	146	9.432	9.440	(1.000)	201969	3.28500	3.285	
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.502	(1.000)	158649	4.00000	(M)	
	9 1,4-Dichlorobenzene	146	9.525	9.533	(1.000)	201792	3.34120	3.341	
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.867	(1.000)	138214	3.37771	3.378	
	12 1,2-Dichlorobenzene	146	9.882	9.890	(1.000)	199460	3.40167	3.402	
	11 Benzyl alcohol	108	9.750	9.766	(1.000)	107541	3.61534	3.615	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.069	(1.000)	69065	4.07826	4.078	
	13 2-Methylphenol	108	9.968	9.976	(1.000)	132679	2.92311	2.923	
	17 Hexachloroethane	117	10.480	10.488	(1.000)	95297	3.64928	3.649	
	16 N-Nitroso-di-n-propylamine	70	10.309	10.325	(1.000)	133616	3.71660	3.717	
	15 4-Methylphenol	108	10.239	10.240	(1.000)	171207	3.14200	3.142	
$	18 Nitrobenzene-d5	82	10.589	10.604	(0.883)	242111	3.68995	3.690	
	19 Nitrobenzene	77	10.627	10.636	(0.886)	229817	3.62425	3.624	
	20 Isophorone	82	11.070	11.078	(0.923)	375359	4.97227	4.972	
	21 2-Nitrophenol	139	11.257	11.266	(0.939)	103006	3.05945	3.059	
	22 2,4-Dimethylphenol	107	11.282	11.300	(0.941)	327022	5.28128	5.281	
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.503	(0.958)	210699	4.36621	4.366	
	24 Benzoic acid	105	11.452	11.486	(0.955)	365294	8.48682	8.487	
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	515603	10.5995	10.60	
	26 1,2,4-Trichlorobenzene	180	11.898	11.906	(0.992)	221826	3.18385	3.184	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	587151	4.00000		
	28 Naphthalene	128	12.029	12.037	(1.003)	555532	3.39124	3.391	
	29 4-Chloroaniline	127	12.153	12.161	(1.014)	300395	4.98332	4.983	
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	127299	3.31309	3.313	
	31 4-Chloro-3-methylphenol	107	13.097	13.105	(1.092)	585976	11.0535	11.05	
	32 2-Methylnaphthalene	142	13.422	13.437	(1.119)	408810	3.33779	3.338	
	33 Hexachlorocyclopentadiene	237	13.886	13.902	(0.889)	257945	6.32894	6.329	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	433243	10.7912	10.79
	35 2,4,5-Trichlorophenol	196	14.110	14.118	(0.904)	455774	10.4105	10.41
$	36 2-Fluorobiphenyl	172	14.203	14.211	(0.910)	506810	3.57174	3.572
	37 2-Chloronaphthalene	162	14.420	14.436	(0.924)	391509	3.50328	3.503
	38 2-Nitroaniline	65	14.683	14.691	(0.941)	396129	12.2052	12.21
	39 Dimethylphthalate	163	15.101	15.109	(0.967)	520588	4.14263	4.143
	40 Acenaphthylene	152	15.302	15.310	(0.980)	599371	3.43591	3.436
	41 2,6-Dinitrotoluene	165	15.248	15.256	(0.977)	333531	11.7587	11.76
*	42 Acenaphthene-d10	164	15.612	15.628	(1.000)	327754	4.00000	
	43 3-Nitroaniline	138	15.534	15.543	(0.995)	277961	9.95515	9.955
	44 Acenaphthene	153	15.681	15.689	(1.004)	399535	3.60114	3.601
	45 2,4-Dinitrophenol	184	15.743	15.759	(1.008)	372370	16.5153	16.52
	46 Dibenzofuran	168	16.006	16.014	(1.025)	590251	3.64882	3.649
	47 4-Nitrophenol	109	15.828	15.844	(1.014)	251654	9.57939	9.579
	48 2,4-Dinitrotoluene	165	16.060	16.068	(1.029)	452238	11.0383	11.04
	50 Diethylphthalate	149	16.563	16.571	(1.061)	674948	5.17290	5.173
	49 Fluorene	166	16.725	16.733	(1.071)	489521	3.66826	3.668
	51 4-Chlorophenyl-phenylether	204	16.702	16.710	(1.070)	296510	4.46206	4.462
	52 4-Nitroaniline	138	16.810	16.825	(1.077)	278571	10.1205	10.12
	53 4,6-Dinitro-2-methylphenol	198	16.902	16.918	(0.906)	542045	22.5254	22.53
	54 N-Nitrosodiphenylamine	169	16.956	16.964	(0.909)	277976	3.55226	3.552
$	55 2,4,6-Tribromophenol	330	17.257	17.265	(1.105)	91414	5.64226	5.642
	56 4-Bromophenyl-phenylether	248	17.712	17.728	(0.949)	149164	4.03785	4.038
	57 Hexachlorobenzene	284	18.036	18.052	(0.966)	135768	3.66161	3.662
	58 Pentachlorophenol	266	18.393	18.401	(0.985)	255711	9.66167	9.662
*	59 Phenanthrene-d10	188	18.663	18.679	(1.000)	592173	4.00000	
	60 Phenanthrene	178	18.717	18.726	(1.003)	642595	3.69824	3.698
	61 Anthracene	178	18.810	18.818	(1.008)	537143	3.34531	3.345
	62 Carbazole	167	19.128	19.136	(1.025)	560983	3.94695	3.947
	63 Di-n-butylphthalate	149	19.893	19.902	(1.066)	922482	4.25304	4.253
	64 Fluoranthene	202	21.077	21.085	(0.890)	845983	3.87490	3.875
	65 Pyrene	202	21.503	21.511	(0.908)	846840	3.88289	3.883
$	66 Terphenyl-d14	244	21.774	21.782	(0.919)	711053	4.12233	4.122
	67 Butylbenzylphthalate	149	22.687	22.695	(0.958)	386592	3.92541	3.925
	68 Benzo(a)anthracene	228	23.655	23.663	(0.998)	752103	3.88514	3.885
*	69 Chrysene-d12	240	23.694	23.694	(1.000)	488998	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.609	23.609	(0.996)	392418	6.51713	6.517
	71 Chrysene	228	23.733	23.741	(1.002)	669320	3.86298	3.863
	72 bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	543171	4.47883	4.479
*	134 Di-n-octylphthalate-d4	153	24.731	24.739	(1.000)	841904	4.00000	
	73 Di-n-octylphthalate	149	24.747	24.747	(1.001)	967268	4.35481	4.355
	74 Benzo(b)fluoranthene	252	25.676	25.676	(0.968)	722456	4.20724	4.207
	75 Benzo(k)fluoranthene	252	25.722	25.730	(0.970)	673407	3.95198	3.952
	76 Benzo(a)pyrene	252	26.396	26.404	(0.995)	556121	3.86920	3.869
*	77 Perylene-d12	264	26.527	26.528	(1.000)	418013	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.498	29.498	(1.112)	700485	4.05686	4.057
	79 Dibenzo(a,h)anthracene	278	29.506	29.514	(1.112)	584143	4.03950	4.039
	80 Benzo(g,h,i)perylene	276	30.376	30.376	(1.145)	561818	4.08217	4.082
	90 N-Nitrosodimethylamine	74	5.074	5.090	(1.000)	56727	2.18766	2.188
	91 Aniline	93	8.945	8.953	(1.000)	103880	2.03667	2.037
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	13.646	13.662	(1.138)	399296	3.55595	3.556
	111 Azobenzene (1,2-DP-Hydrazine)	77	17.033	17.041	(1.091)	523687	4.10832	4.108

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.722	25.676	(0.970)	1347248	8.15071	8.151
120 2,3,4,6-Tetrachlorophenol	232	16.338	16.346	(1.047)	118288	2.75655	2.757

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052309.D
Lab Smp Id: BLD0329-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	158649	-11.60
27 Naphthalene-d8	621628	310814	1243256	587151	-5.55
42 Acenaphthene-d10	353112	176556	706224	327754	-7.18
59 Phenanthrene-d10	694933	347467	1389866	592173	-14.79
69 Chrysene-d12	553967	276984	1107934	488998	-11.73
134 Di-n-octylphthala	895601	447801	1791202	841904	-6.00
77 Perylene-d12	482573	241287	965146	418013	-13.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.09
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.07
42 Acenaphthene-d10	15.63	15.13	16.13	15.61	-0.10
59 Phenanthrene-d10	18.68	18.18	19.18	18.66	-0.09
69 Chrysene-d12	23.69	23.19	24.19	23.69	-0.00
134 Di-n-octylphthala	24.74	24.24	25.24	24.73	-0.03
77 Perylene-d12	26.53	26.03	27.03	26.53	-0.00

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

REVIEW SUMMARY FOR FILE - NT1005052309.D

Lab ID: BLD0329-BSD1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 15:57

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.060	-0.0596	2,2'-oxybis(1-Chloropropane)

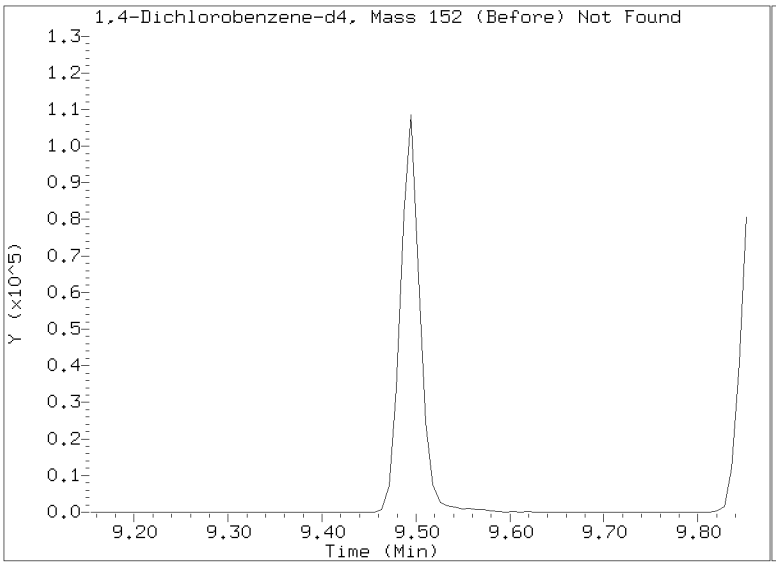
RRT check based on Ccal File: NT1005052303.D

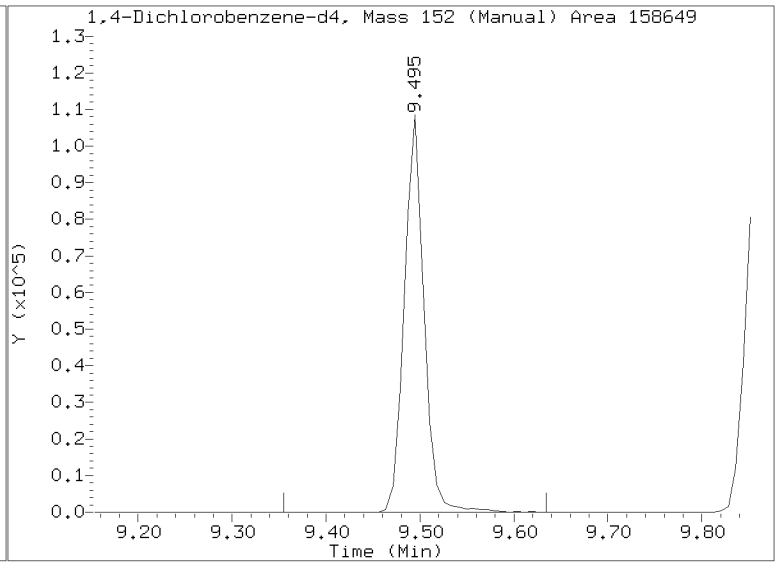
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052309.D
Injection Date: 05-MAY-2023 15:57
Lab ID:BLD0329-BSD1 Client ID:
Report Date: 05/08/2023 10:15





APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1803

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 18:32
Batch:	BLD0329	Laboratory ID:	BLD0329-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	22.57 g / 1 mL	Source Sample:	LDW23-SS1803

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Phenol	500	109		331		44.3	34 - 120
4-Methylphenol	500	76.8		366		57.9	29 - 120
Naphthalene	500	21.7		337		63.1	43 - 120
2-Methylnaphthalene	500	16.4	J	325		61.7	43 - 120
Acenaphthylene	500	14.2	J	353		67.7	42 - 120
Dimethylphthalate	500	7.2	J	376		73.8	43 - 120
Acenaphthene	500	15.9	J	356		68.0	45 - 120
Dibenzofuran	500	20.3		368		69.6	43 - 120
Fluorene	500	23.7		367		68.6	45 - 120
Phenanthrene	500	92.0		433		68.1	49 - 120
Anthracene	500	60.4		361		60.1	45 - 120
Fluoranthene	500	258		543		57.1	53 - 145
Pyrene	500	235		513		55.7	52 - 134
Butylbenzylphthalate	500	20.8		385		72.8	45 - 132
Benzo(a)anthracene	500	135		455		64.0	49 - 120
Chrysene	500	233		526		58.5	47 - 120
bis(2-Ethylhexyl)phthalate	500	196		563		73.3	34 - 130
Benzofluoranthenes, Total	1000	377		1050		66.9	30 - 160
Benzo(a)pyrene	500	136		468		66.5	42 - 120
Indeno(1,2,3-cd)pyrene	500	68.9		394		64.9	42 - 163
Dibenzo(a,h)anthracene	500	24.3		359		66.9	30 - 133
Benzo(g,h,i)perylene	500	87.0		396		61.7	46 - 148

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

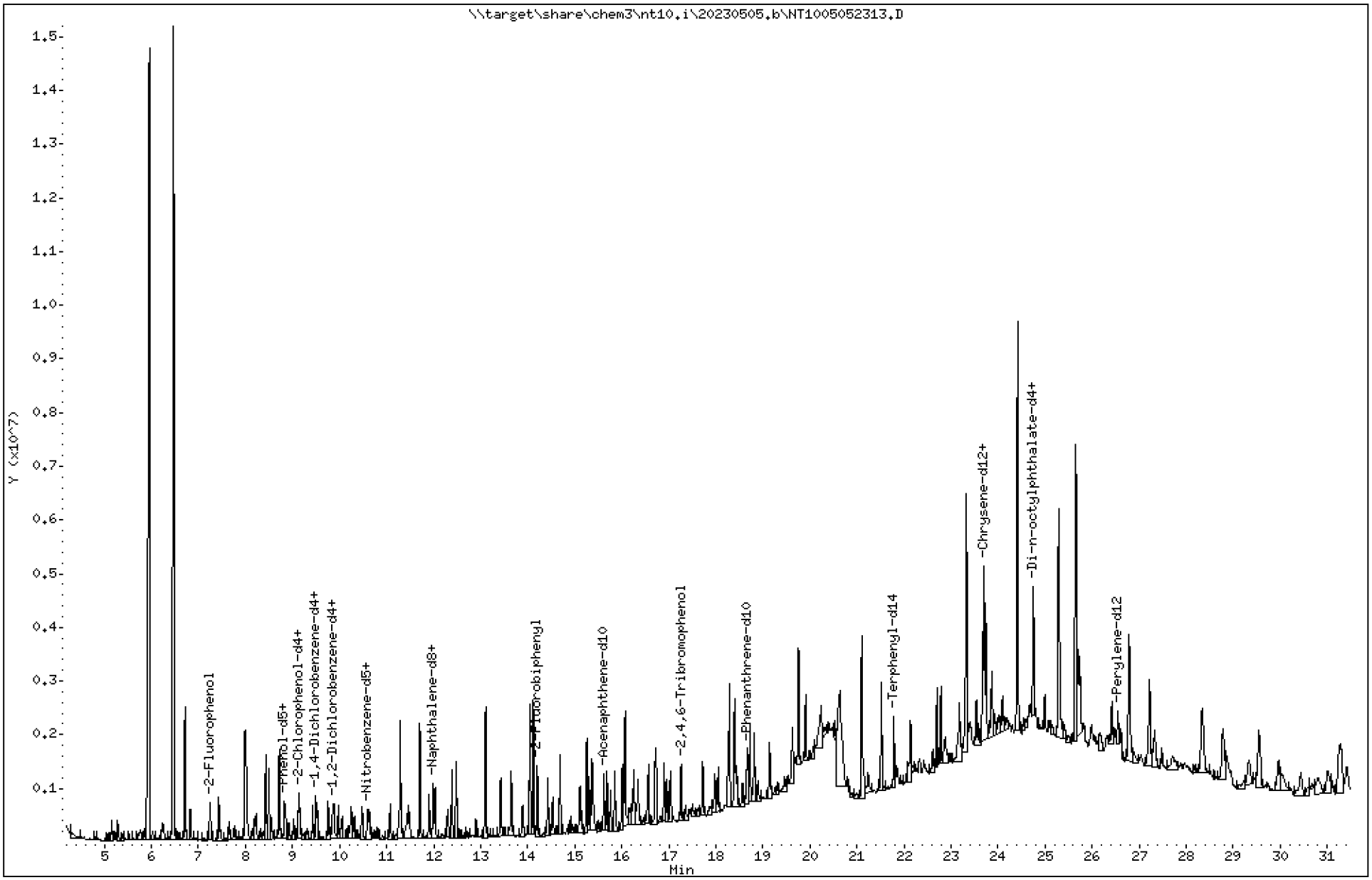
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 19:11
Batch:	BLD0329	Laboratory ID:	BLD0329-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	22.57 g / 1 mL	Source Sample:	LDW23-SS1803

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	292		36.5	12.5	30	34 - 120
4-Methylphenol	500	354		55.4	3.52	30	29 - 120
Naphthalene	500	356		66.8	5.40	30	43 - 120
2-Methylnaphthalene	500	351		66.9	7.60	30	43 - 120
Acenaphthylene	500	363		69.9	2.98	30	42 - 120
Dimethylphthalate	500	404		79.4	7.13	30	43 - 120
Acenaphthene	500	375		71.9	5.29	30	45 - 120
Dibenzofuran	500	385		73.0	4.56	30	43 - 120
Fluorene	500	394		74.1	7.22	30	45 - 120
Phenanthrene	500	464		74.3	6.92	30	49 - 120
Anthracene	500	378		63.4	4.48	30	45 - 120
Fluoranthene	500	589		66.2	8.04	30	53 - 145
Pyrene	500	552		63.4	7.24	30	52 - 134
Butylbenzylphthalate	500	421		80.0	9.01	30	45 - 132
Benzo(a)anthracene	500	496		72.3	8.64	30	49 - 120
Chrysene	500	609		75.1	14.6	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	610		82.6	8.00	30	34 - 130
Benzofluoranthenes, Total	1000	1090		71.5	4.35	30	30 - 160
Benzo(a)pyrene	500	493		71.5	5.20	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	408		67.8	3.63	30	42 - 163
Dibenzo(a,h)anthracene	500	372		69.6	3.77	30	30 - 133
Benzo(g,h,i)perylene	500	410		64.7	3.69	30	46 - 148

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D
Date : 05-MAY-2023 18:32
Client ID:
Sample Info: BLD0329-MS1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

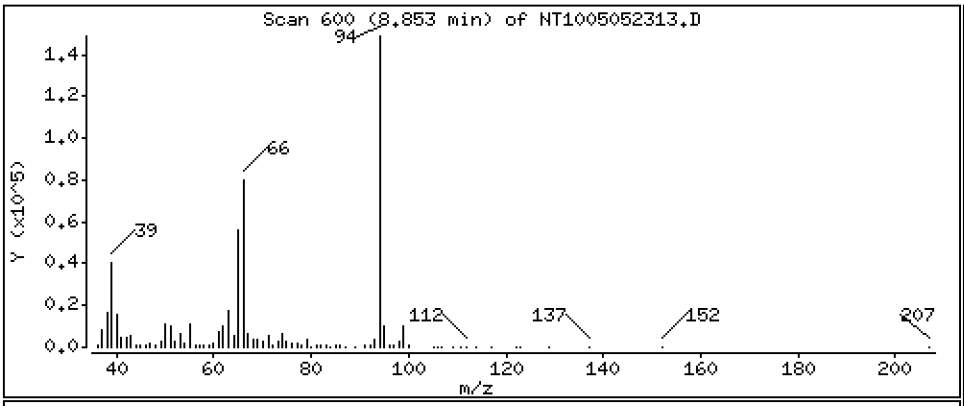
Operator: VTS

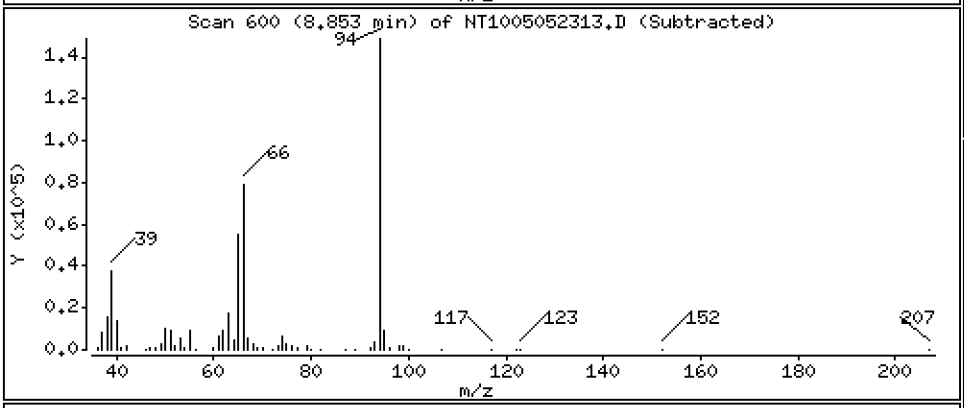
Column phase: ZB-5msi

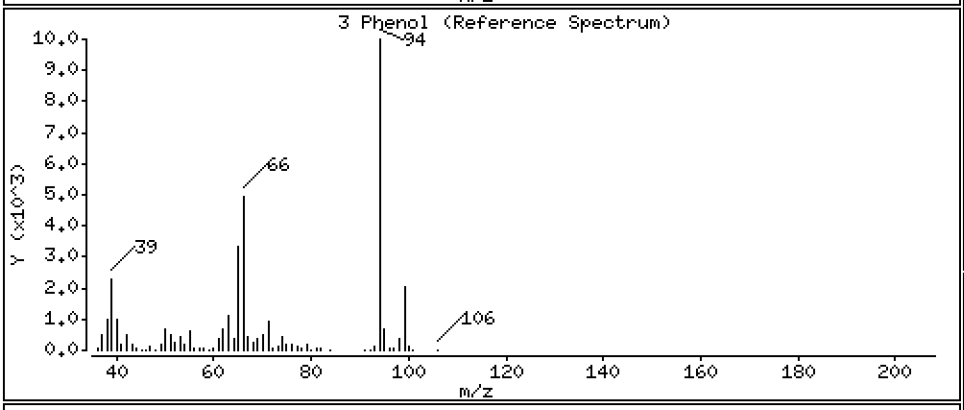
Column diameter: 0.25

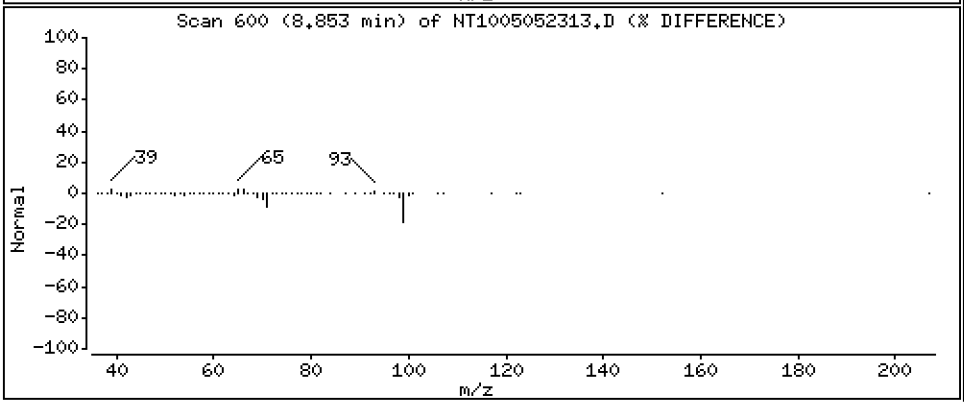
3 Phenol

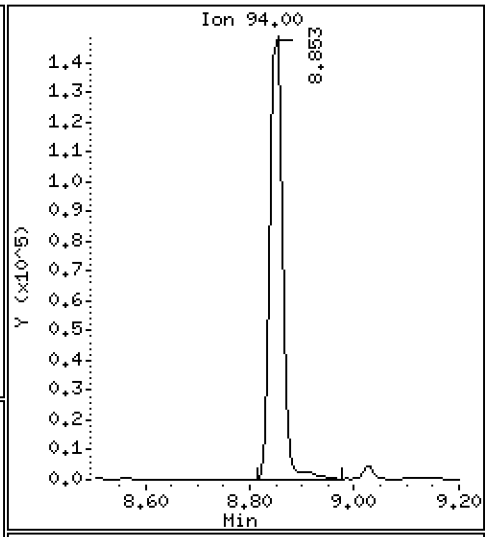
Concentration: 3.309 ug/mL

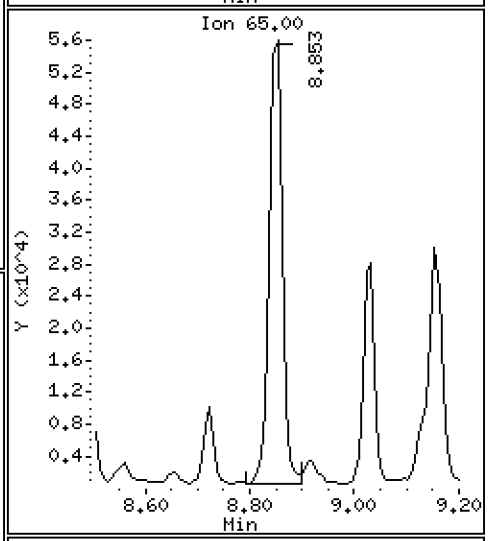


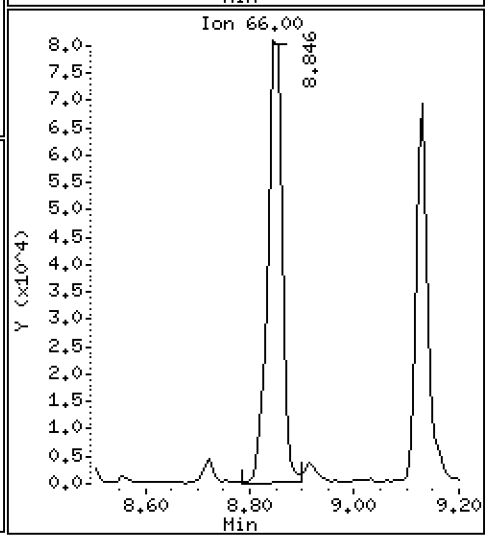












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

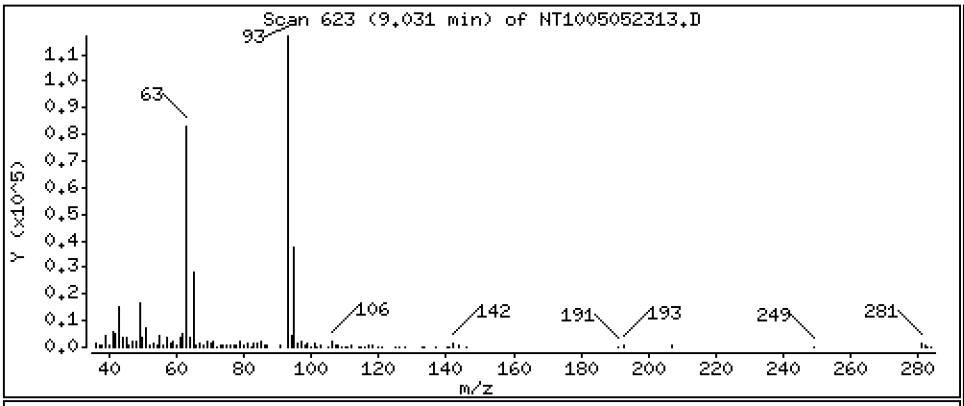
Operator: VTS

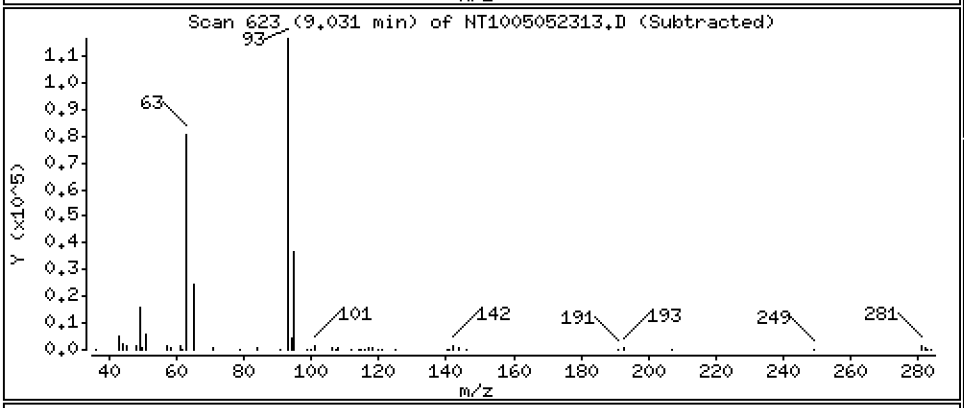
Column phase: ZB-5msi

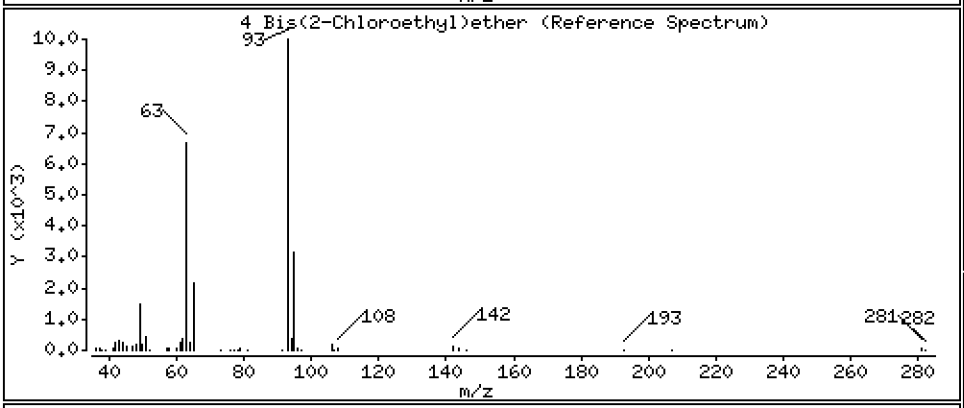
Column diameter: 0.25

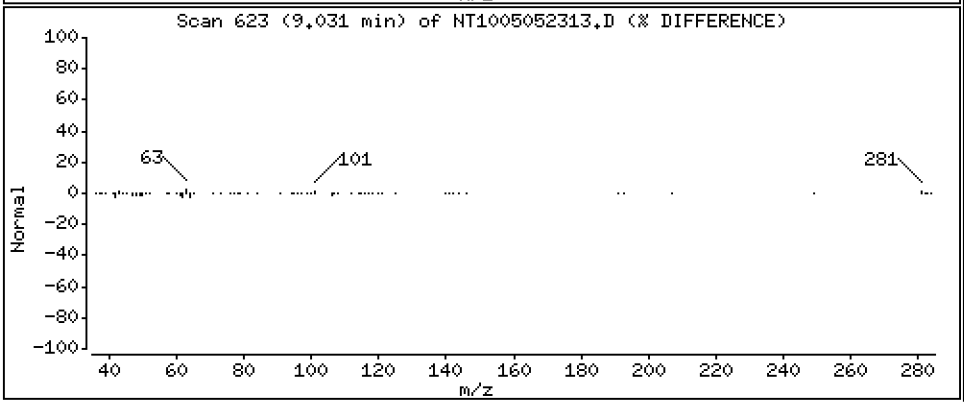
4 Bis(2-Chloroethyl)ether

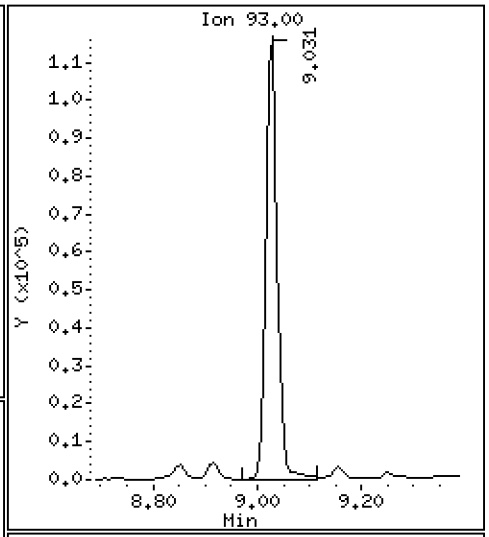
Concentration: 3.364 ug/mL

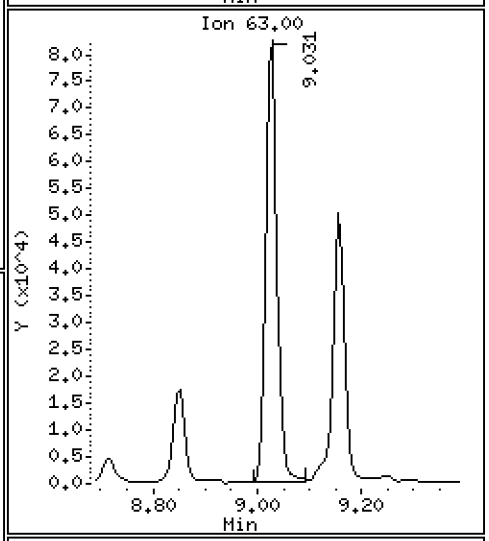


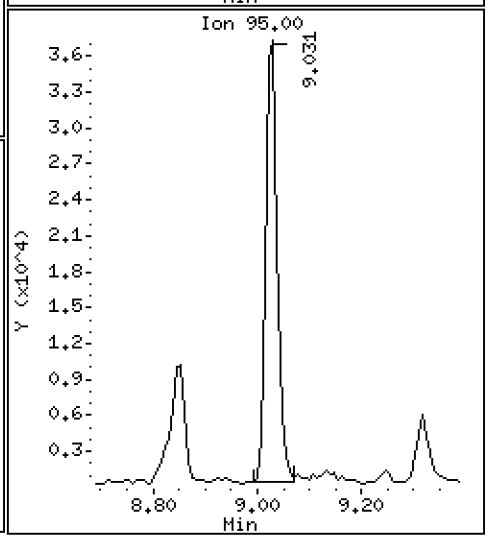












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

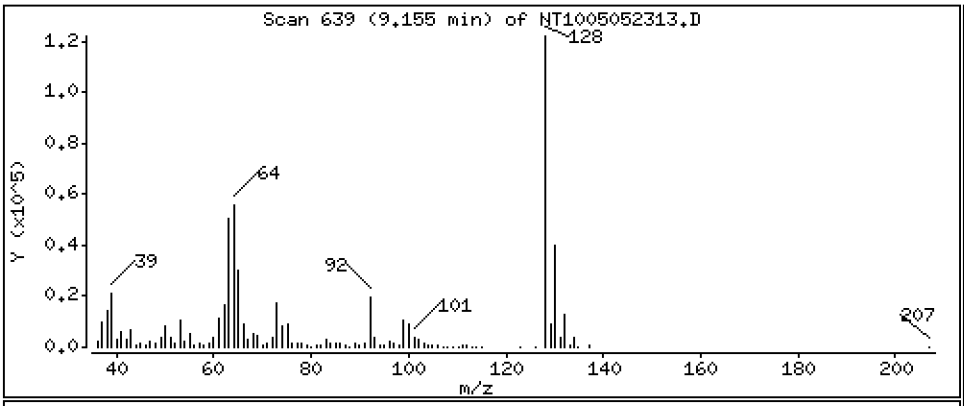
Operator: VTS

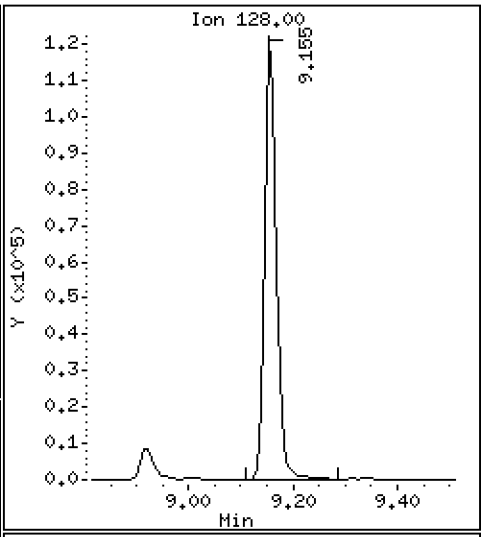
Column phase: ZB-5msi

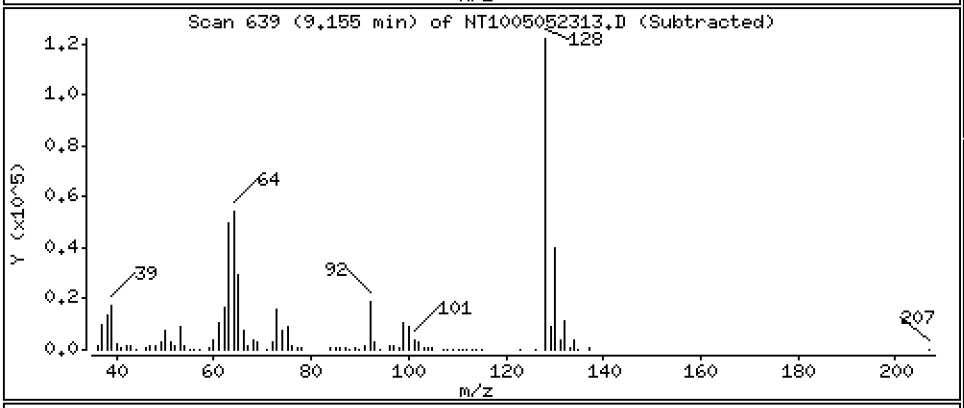
Column diameter: 0.25

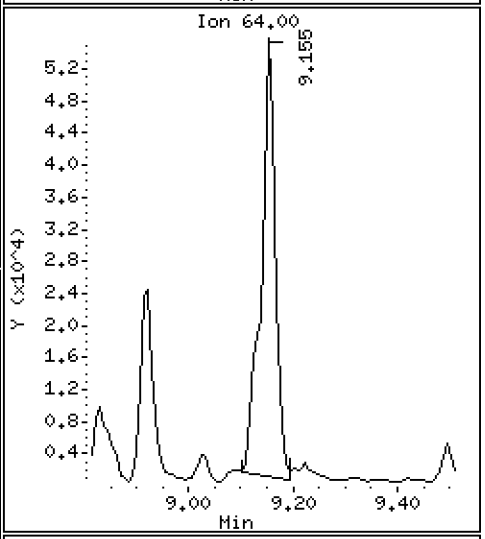
6 2-Chlorophenol

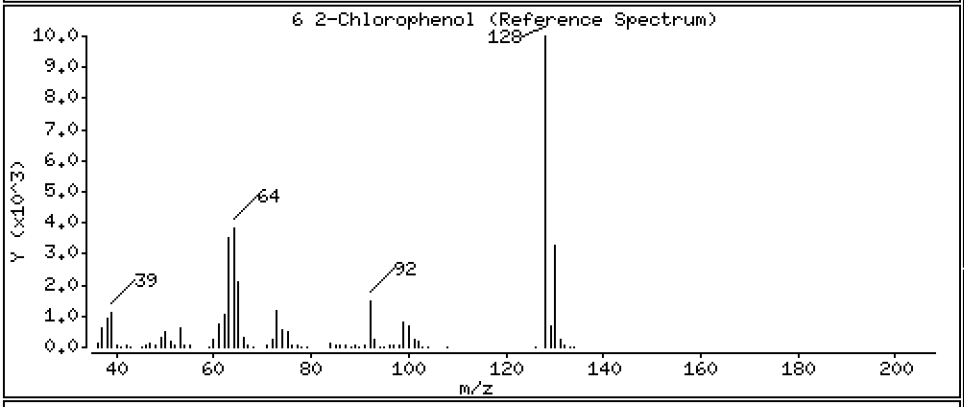
Concentration: 2.981 ug/mL

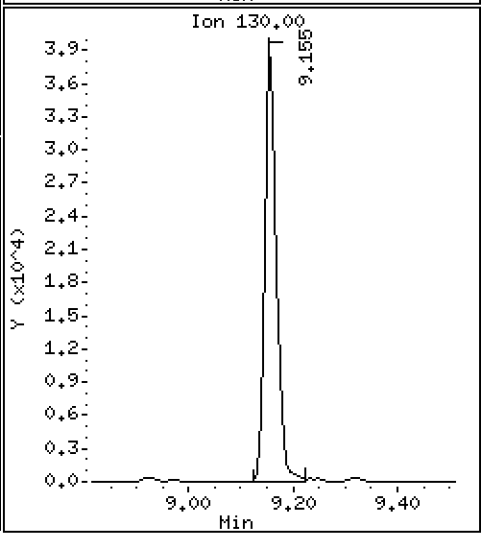


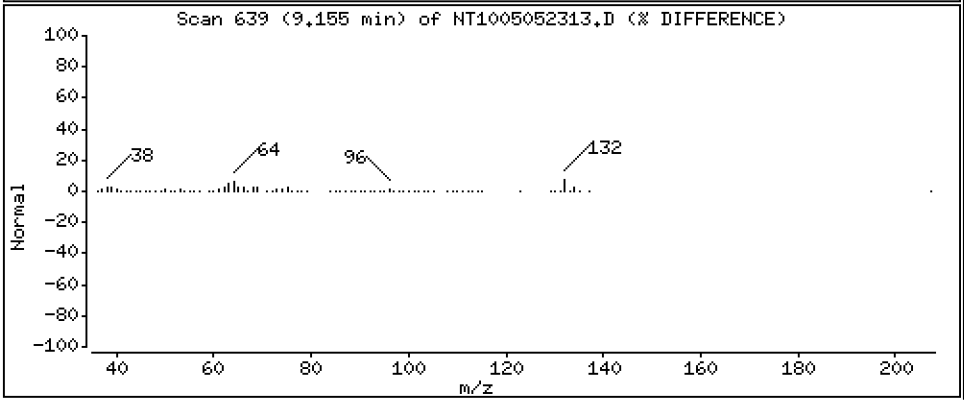












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

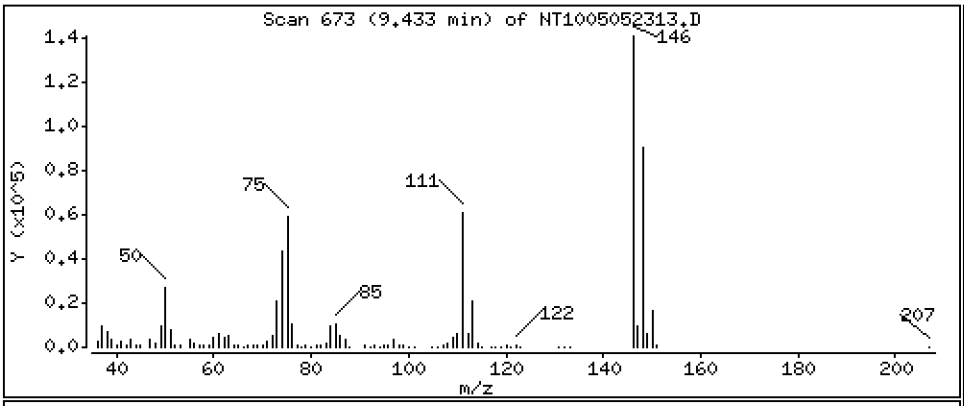
Operator: VTS

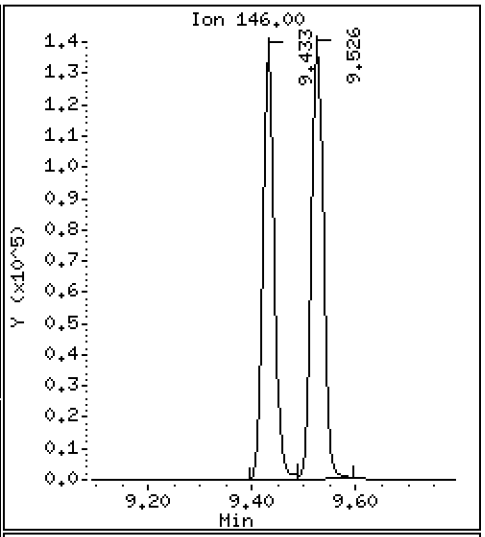
Column phase: ZB-5msi

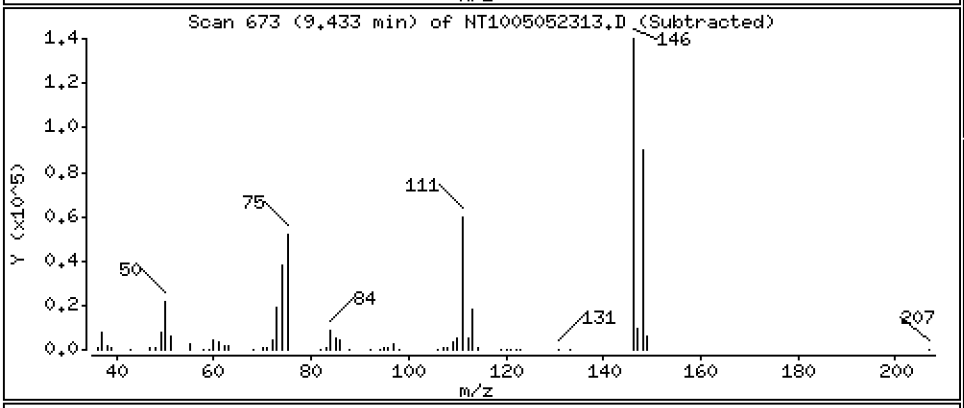
Column diameter: 0.25

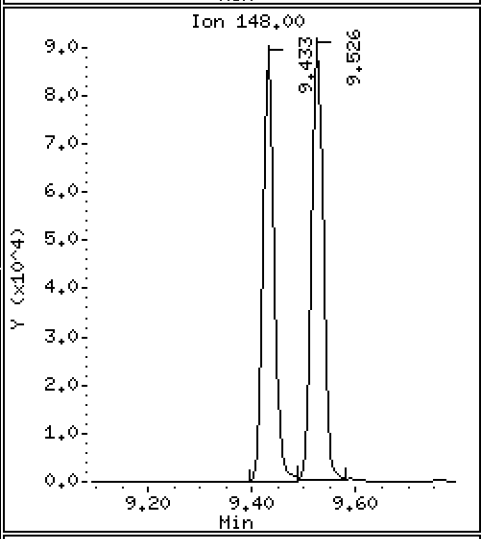
7 1,3-Dichlorobenzene

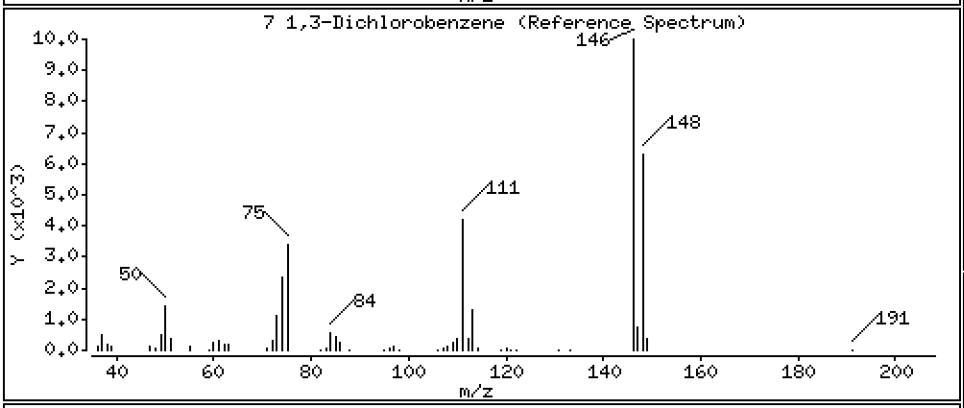
Concentration: 2.998 ug/mL

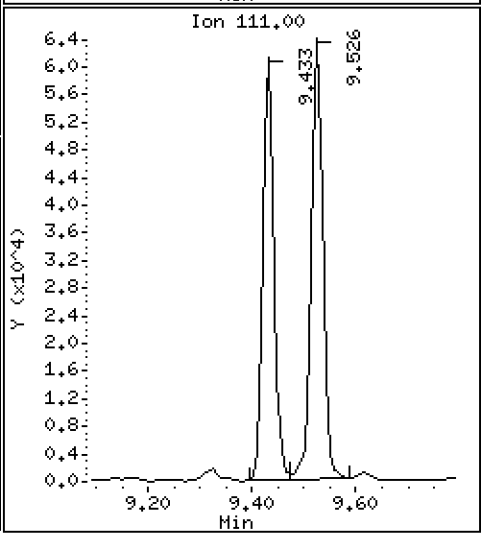


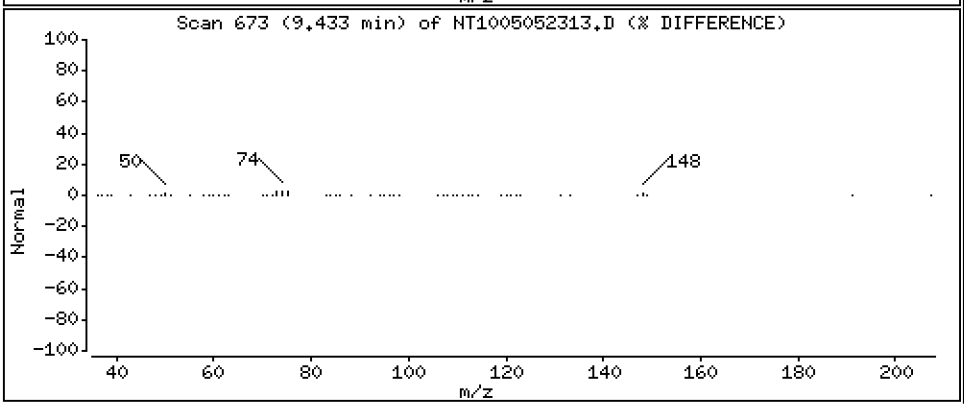












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

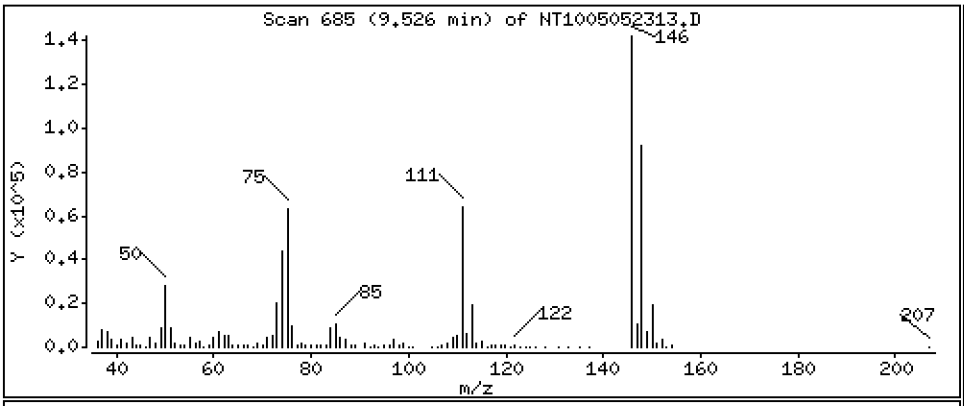
Operator: VTS

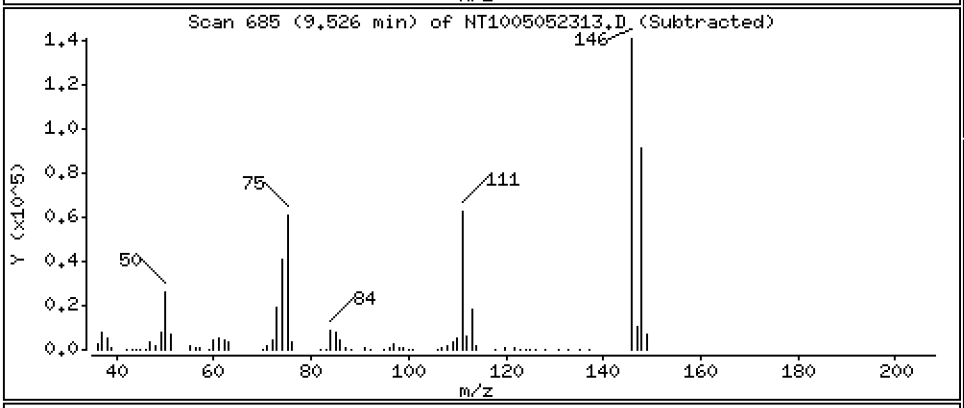
Column phase: ZB-5msi

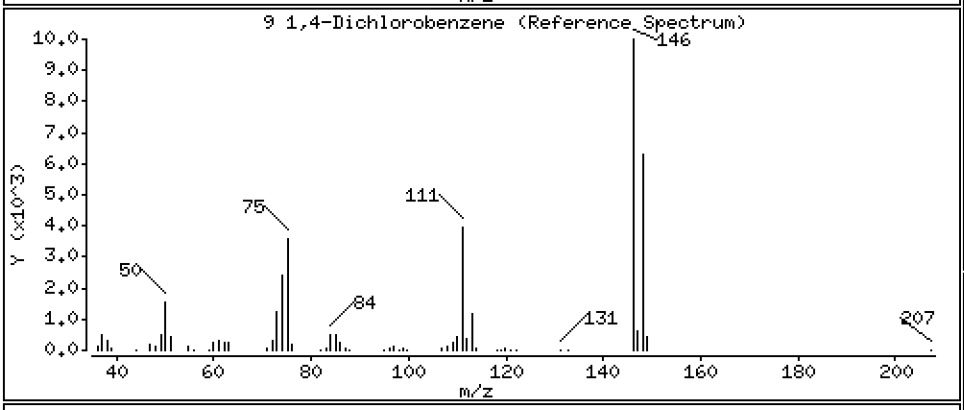
Column diameter: 0.25

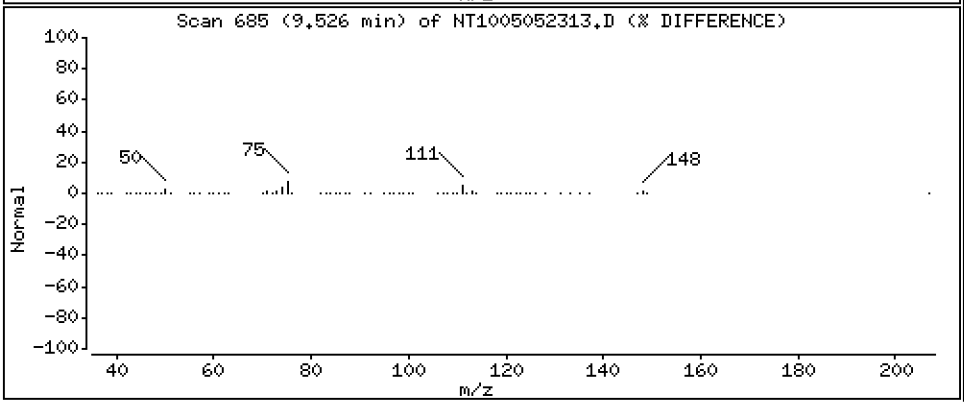
9 1,4-Dichlorobenzene

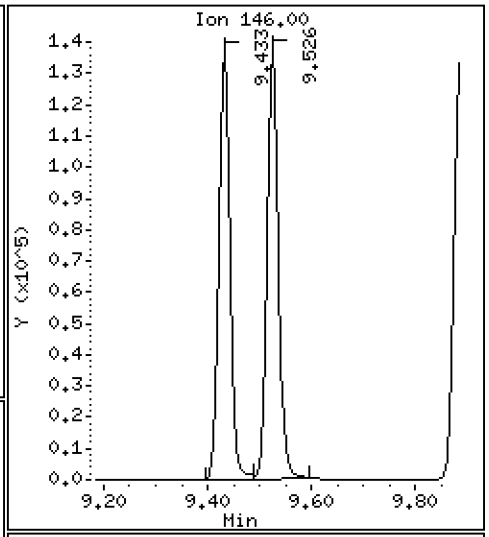
Concentration: 2.986 ug/mL

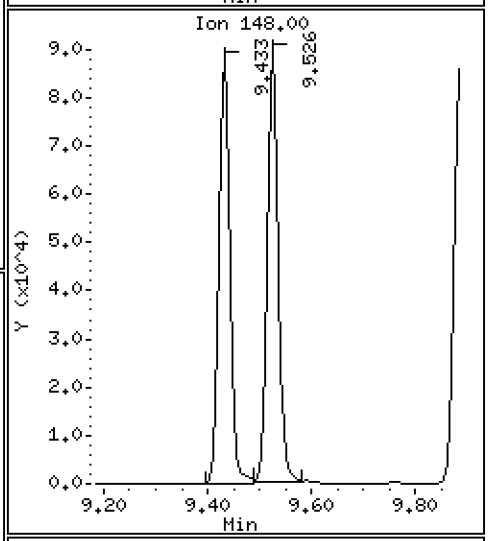


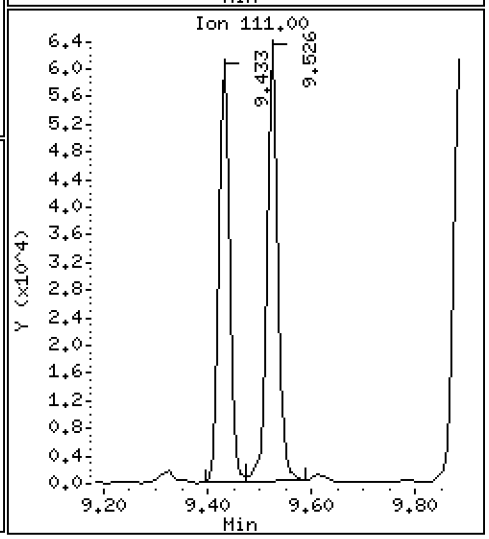












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

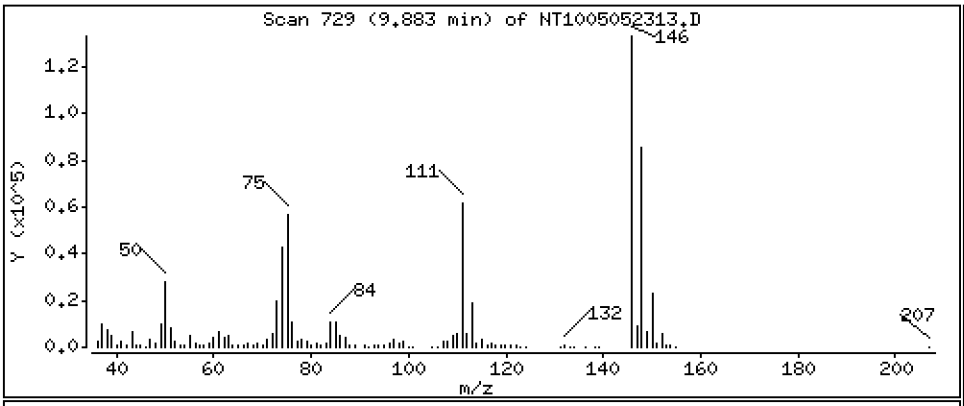
Operator: VTS

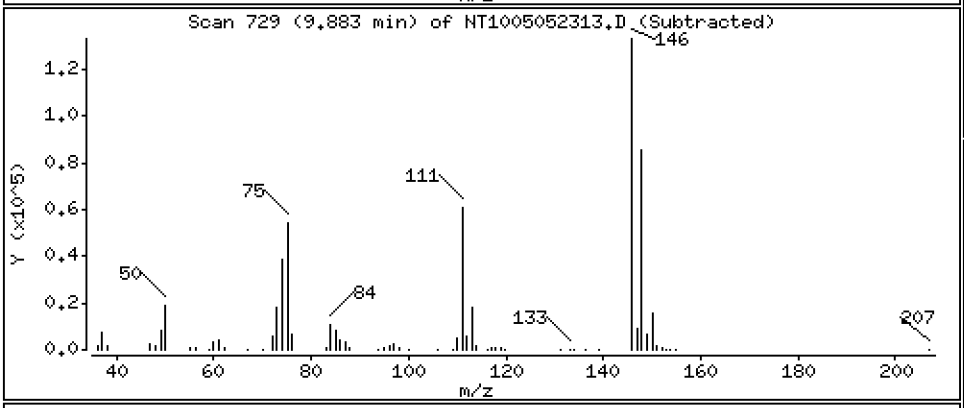
Column phase: ZB-5msi

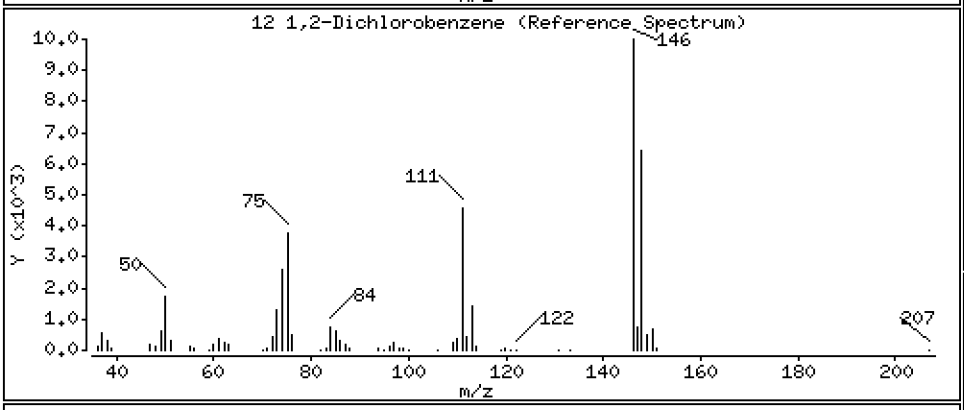
Column diameter: 0.25

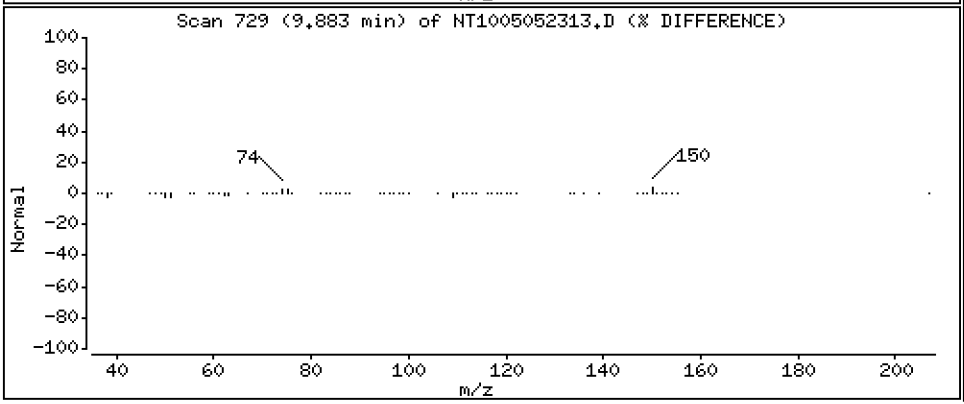
12 1,2-Dichlorobenzene

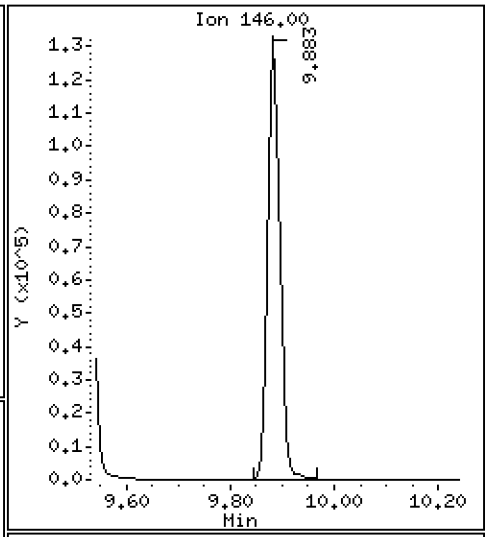
Concentration: 3.045 ug/mL

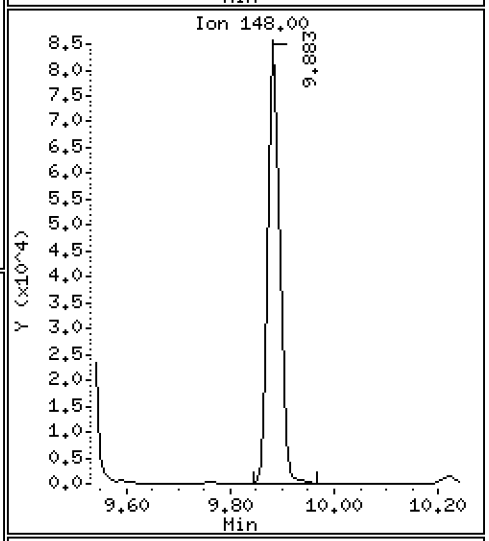


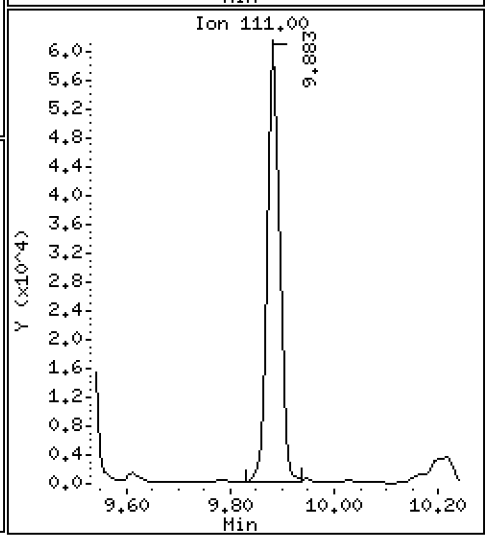












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

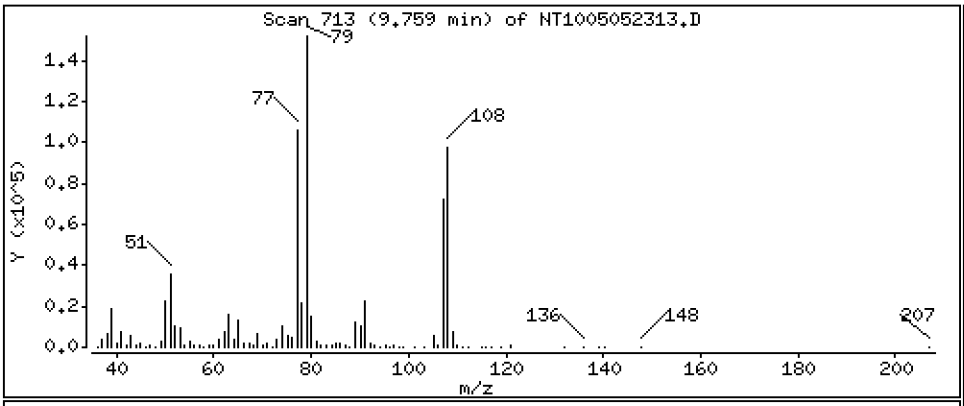
Operator: VTS

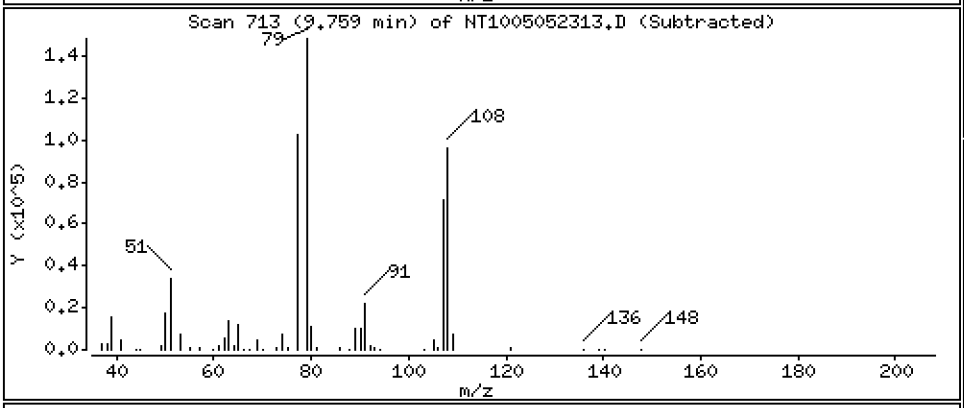
Column phase: ZB-5msi

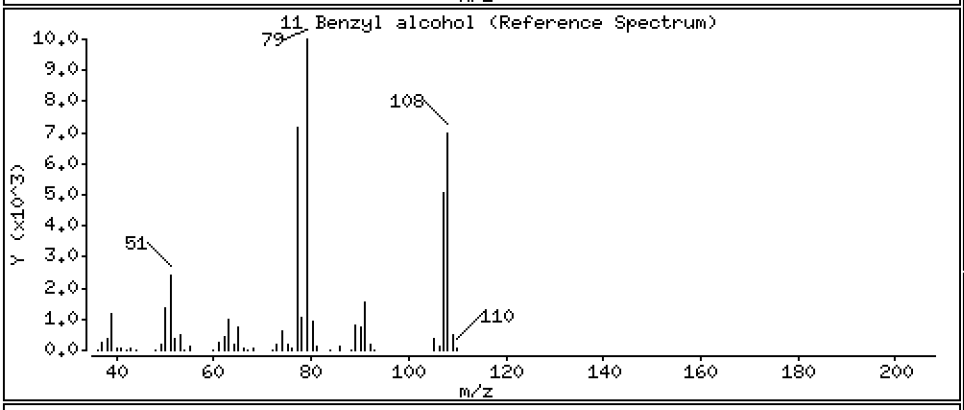
Column diameter: 0.25

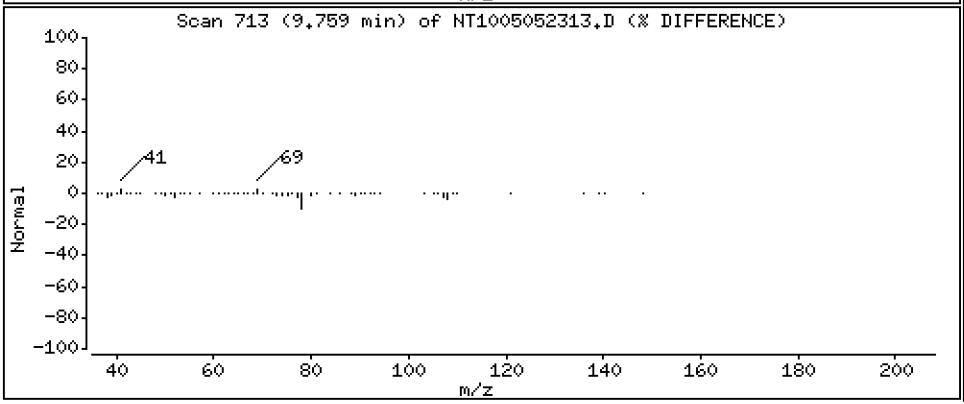
11 Benzyl alcohol

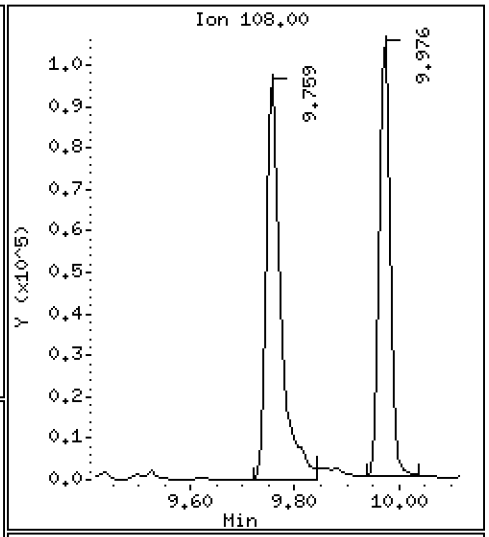
Concentration: 5.386 ug/mL

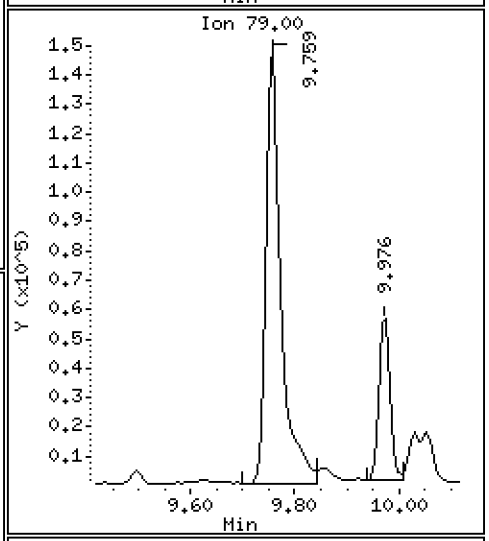


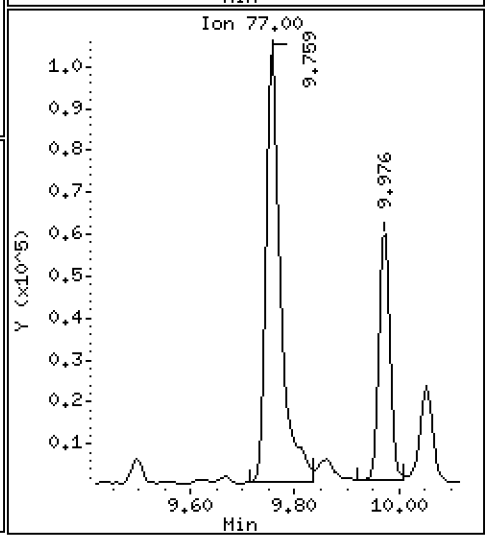












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

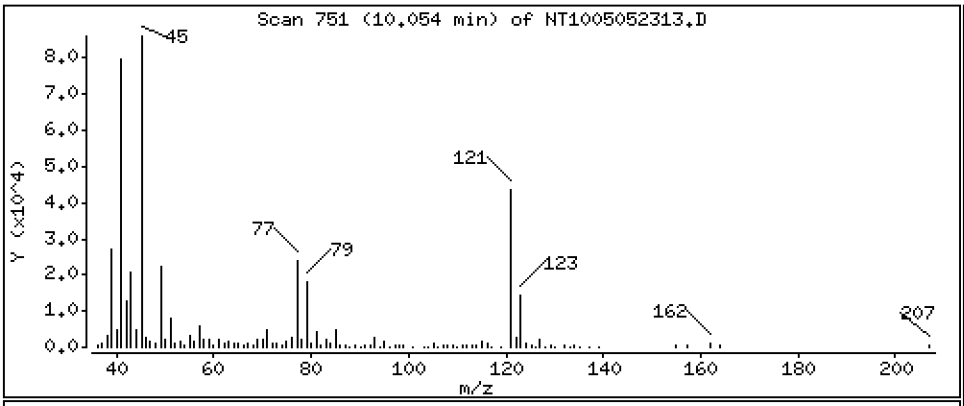
Operator: VTS

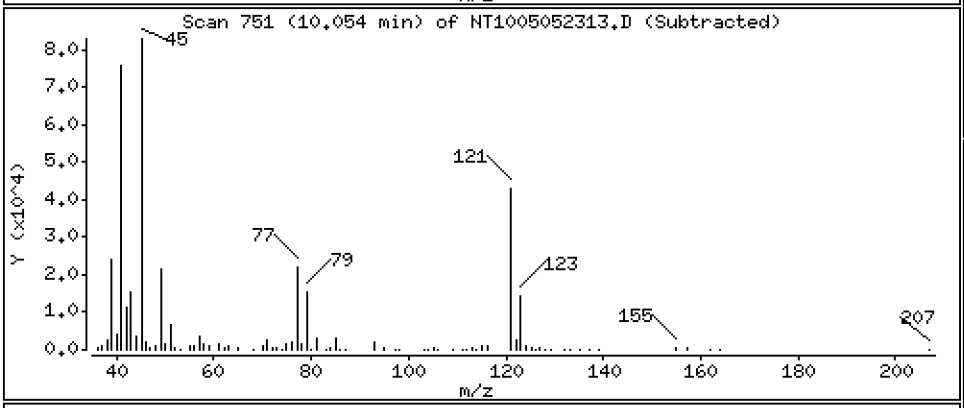
Column phase: ZB-5msi

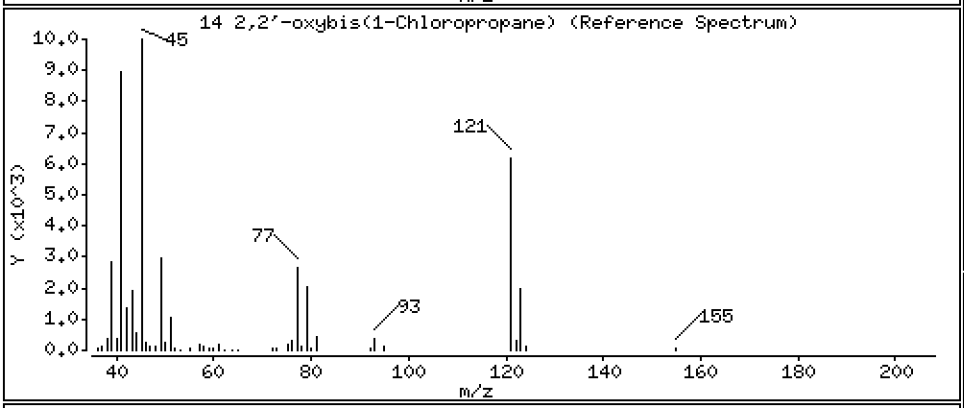
Column diameter: 0.25

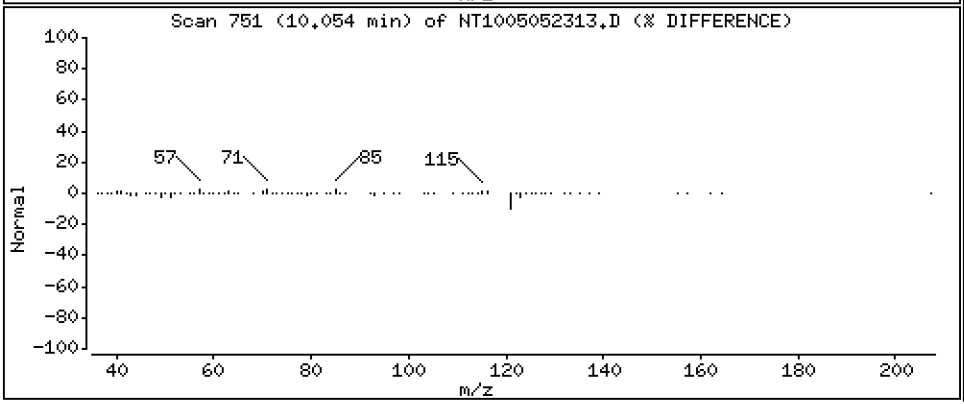
14 2,2'-oxybis(1-Chloropropane)

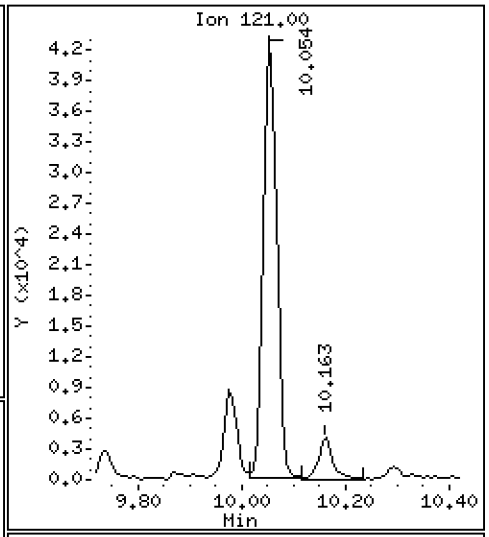
Concentration: 3.791 ug/mL

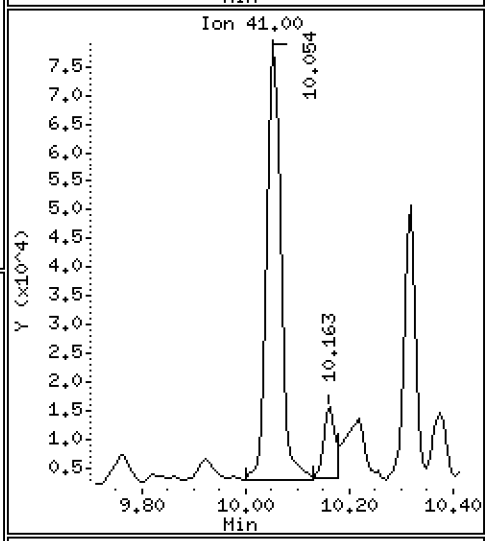


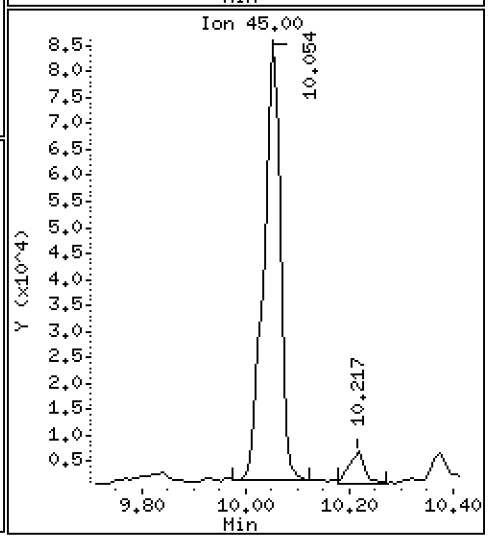












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

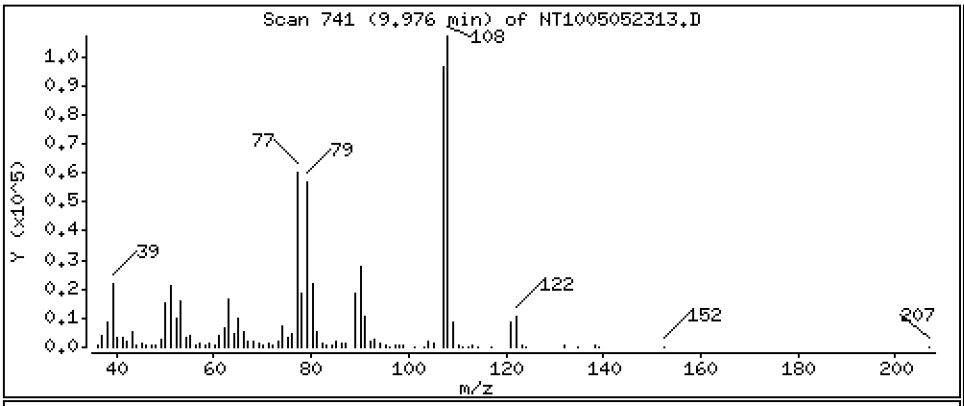
Operator: VTS

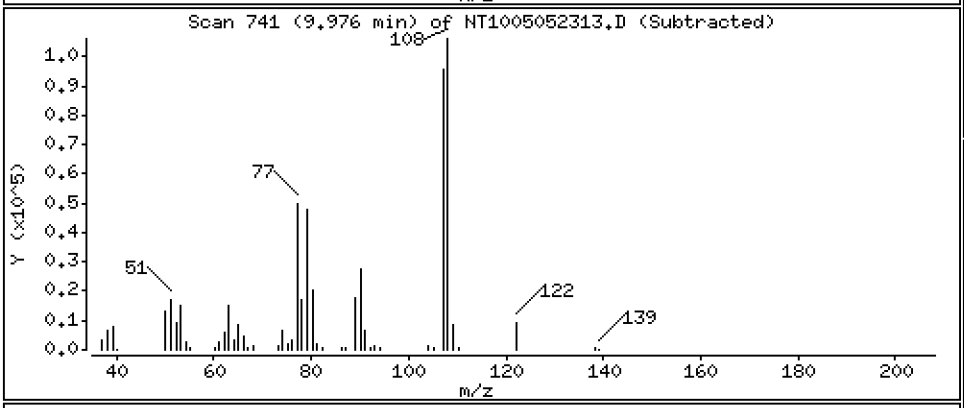
Column phase: ZB-5msi

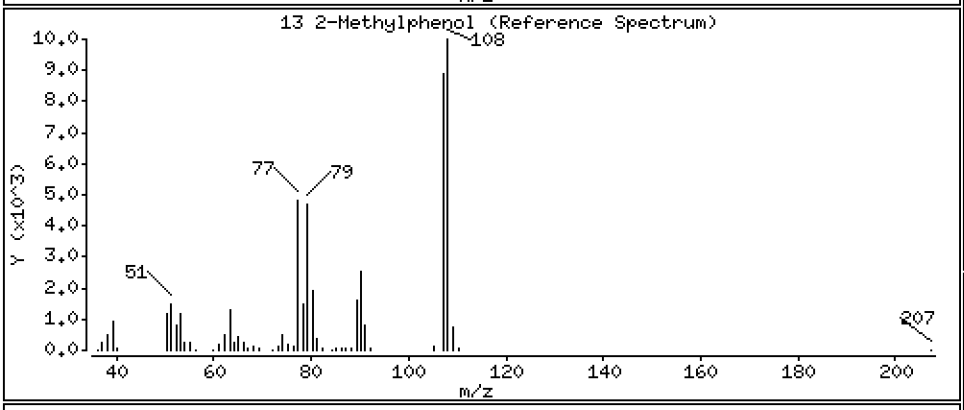
Column diameter: 0.25

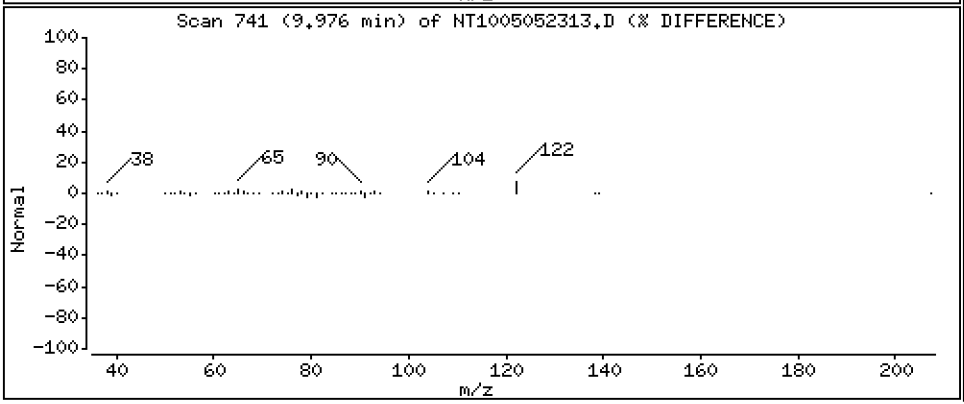
13 2-Methylphenol

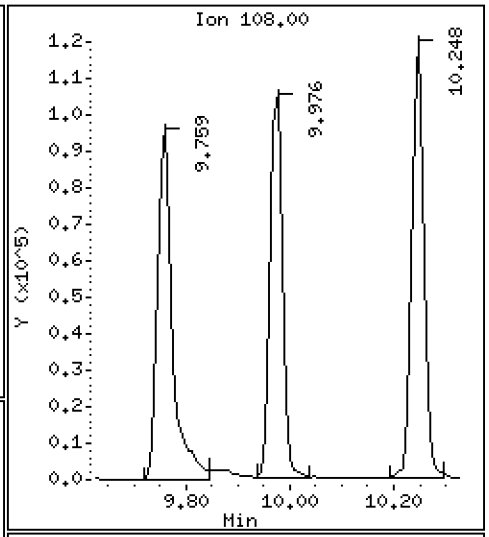
Concentration: 3.099 ug/mL

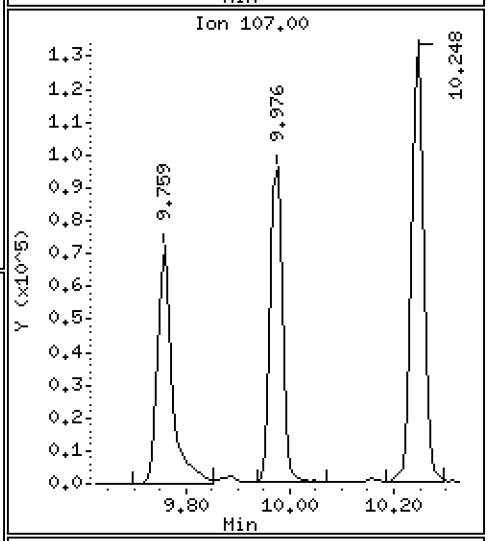


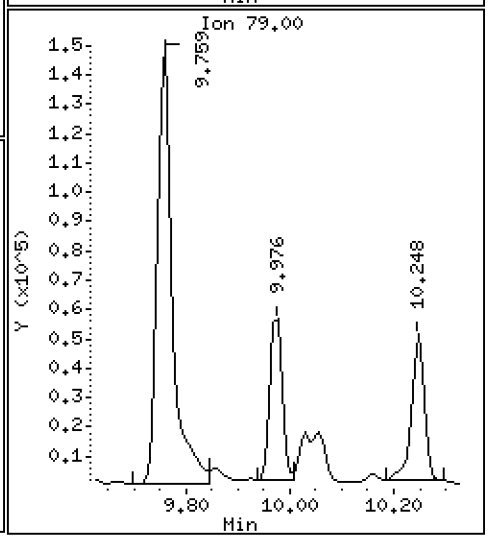












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

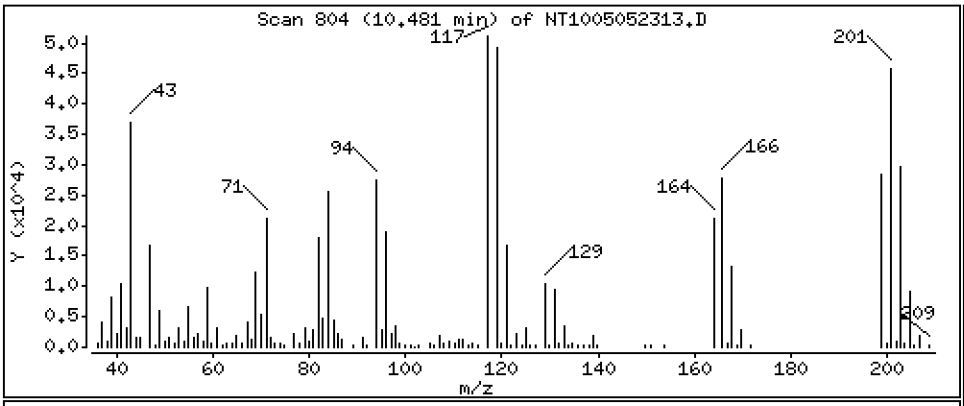
Operator: VTS

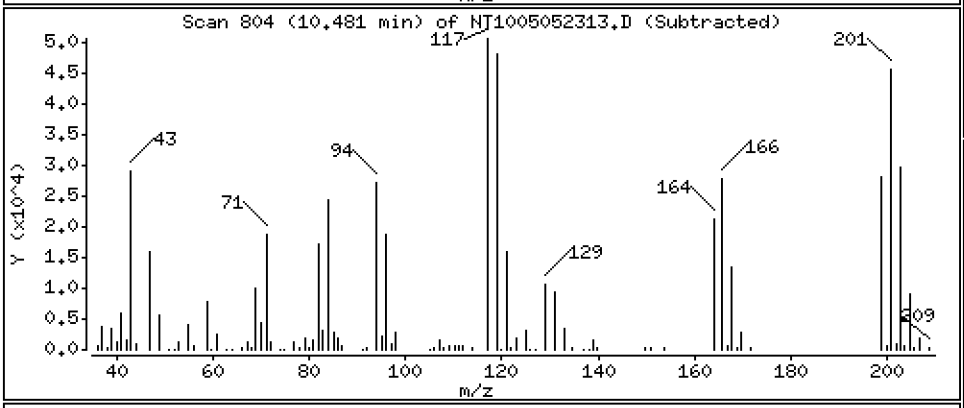
Column phase: ZB-5msi

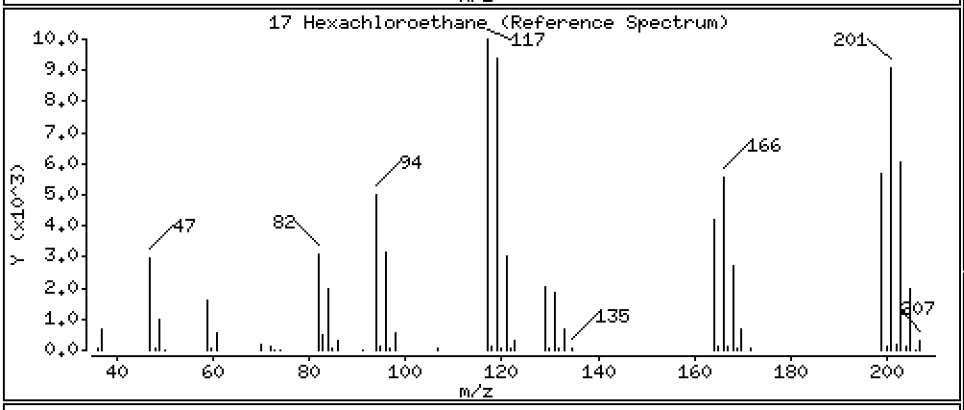
Column diameter: 0.25

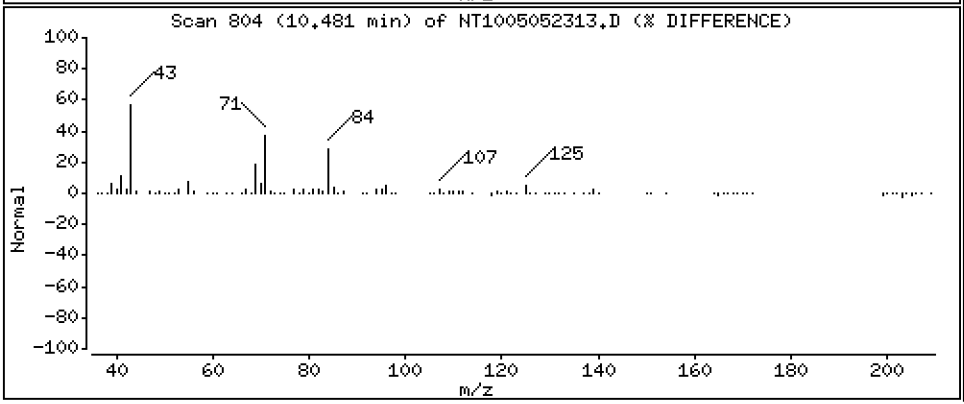
17 Hexachloroethane

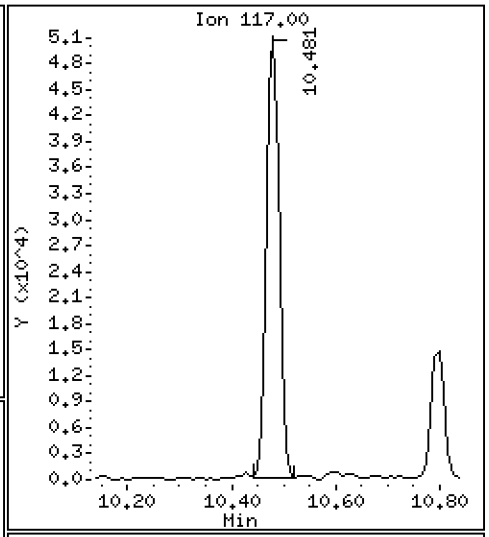
Concentration: 2.693 ug/mL

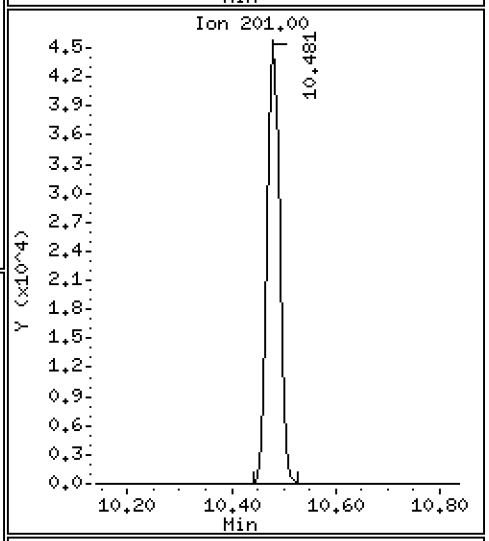


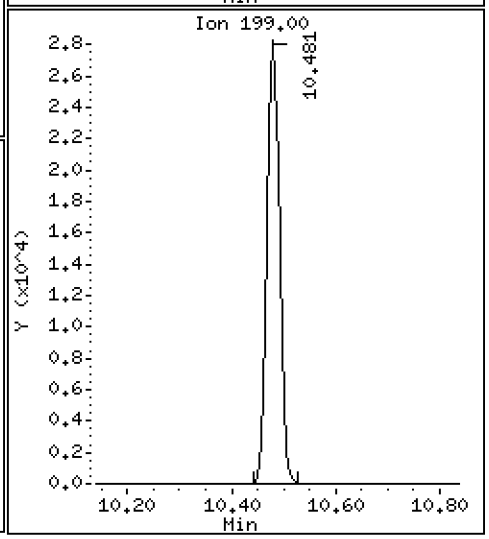












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

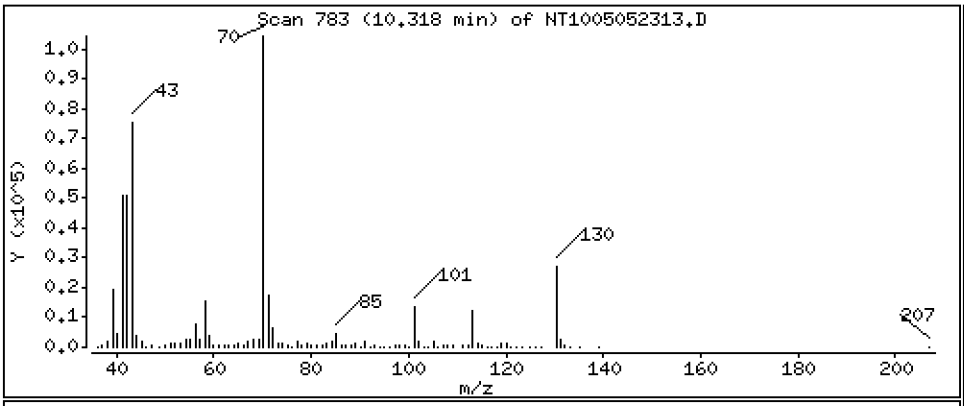
Operator: VTS

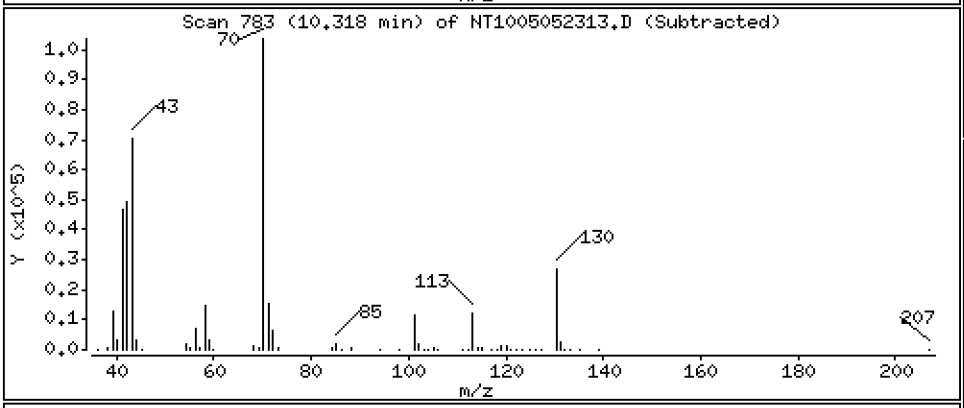
Column phase: ZB-5msi

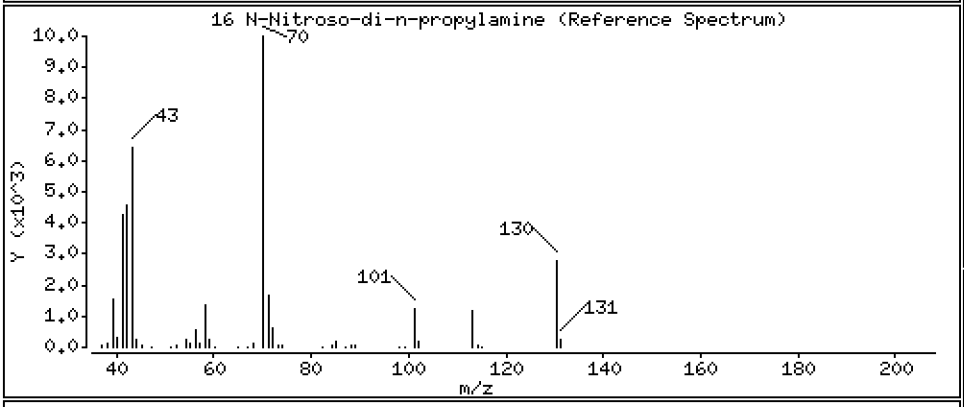
Column diameter: 0.25

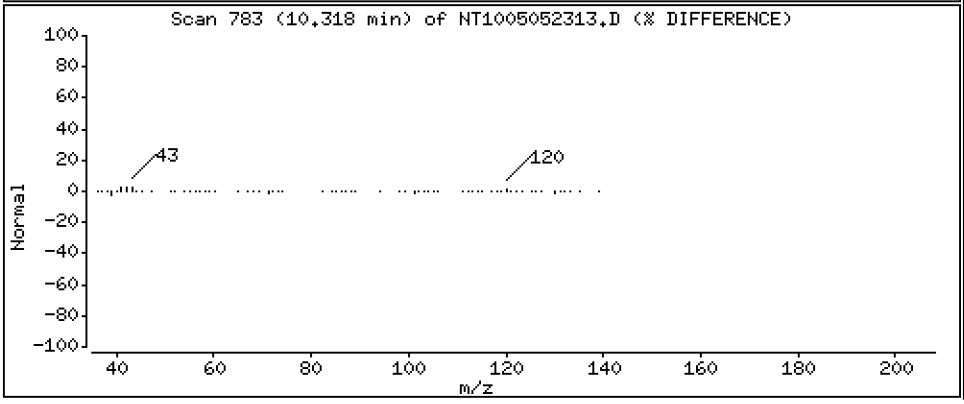
16 N-Nitroso-di-n-propylamine

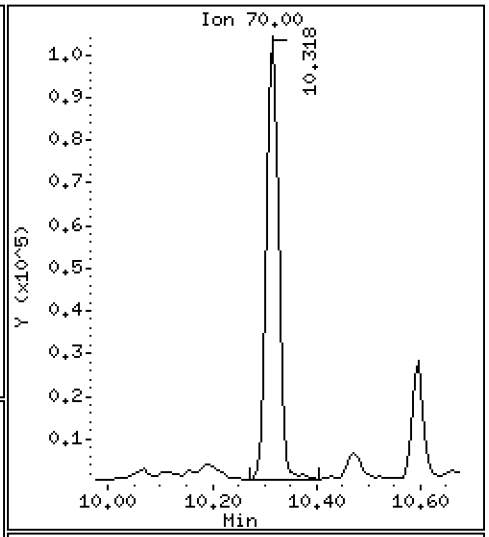
Concentration: 3.815 ug/mL

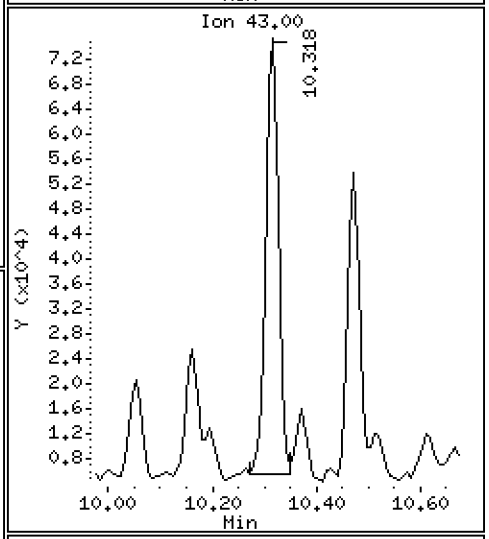


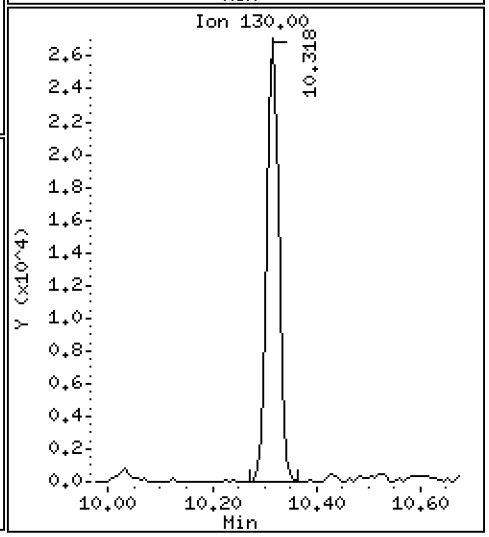












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

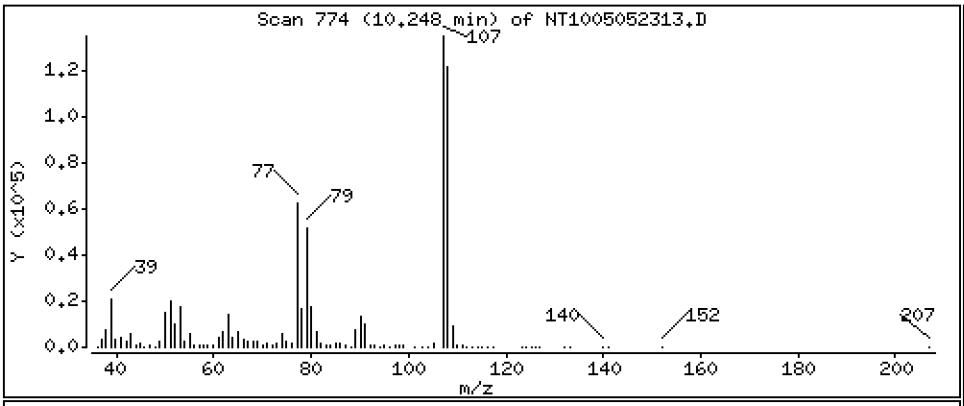
Operator: VTS

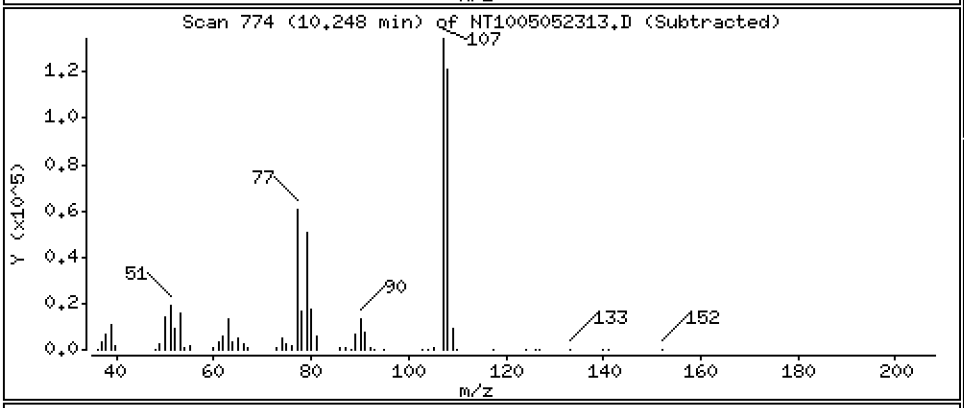
Column phase: ZB-5msi

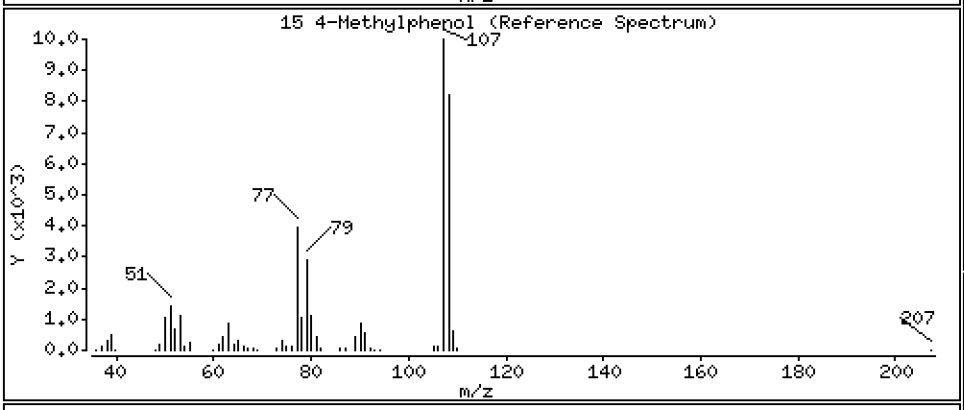
Column diameter: 0.25

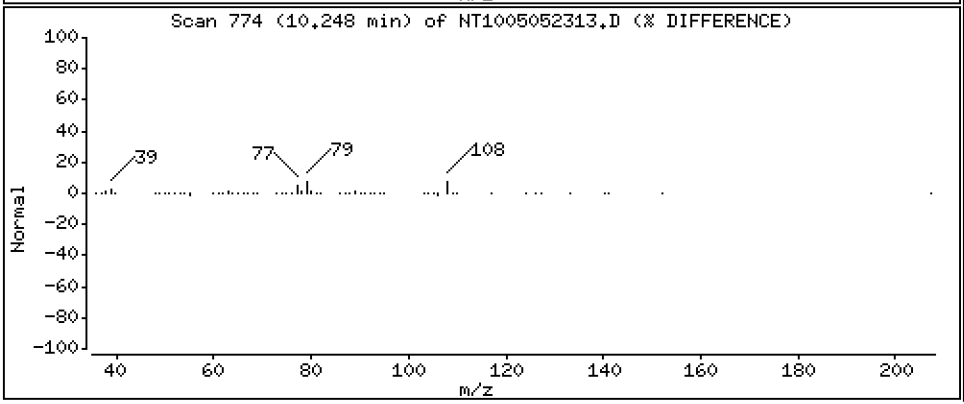
15 4-Methylphenol

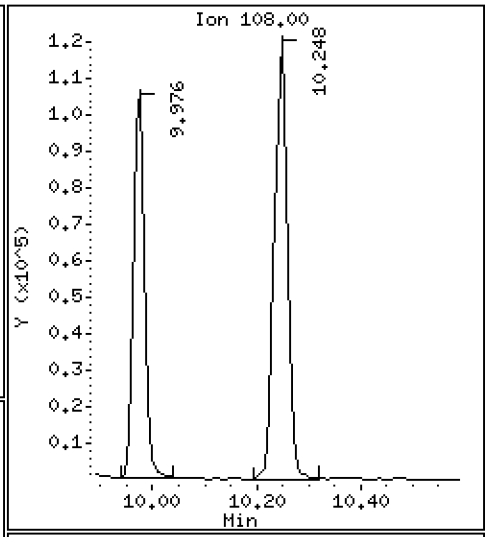
Concentration: 3.663 ug/mL

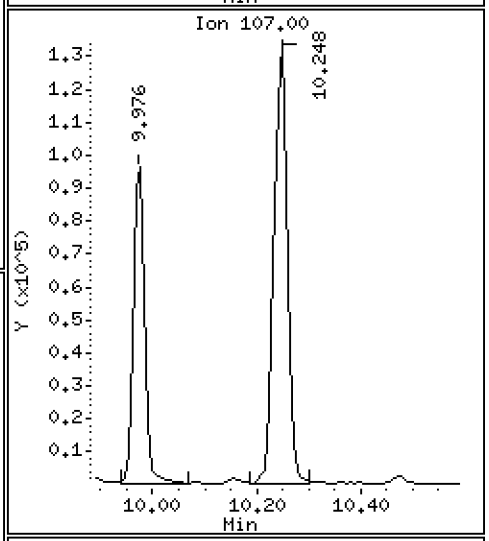


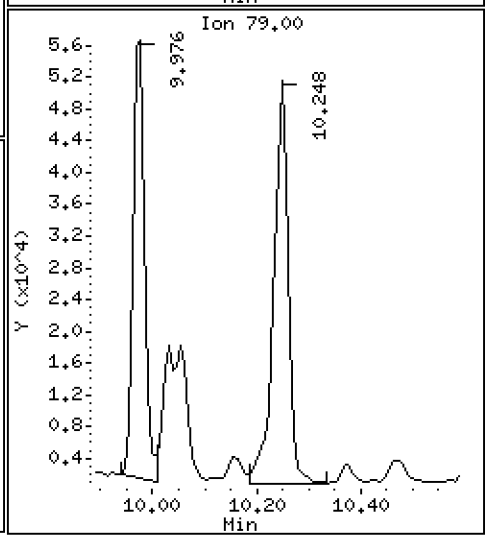












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

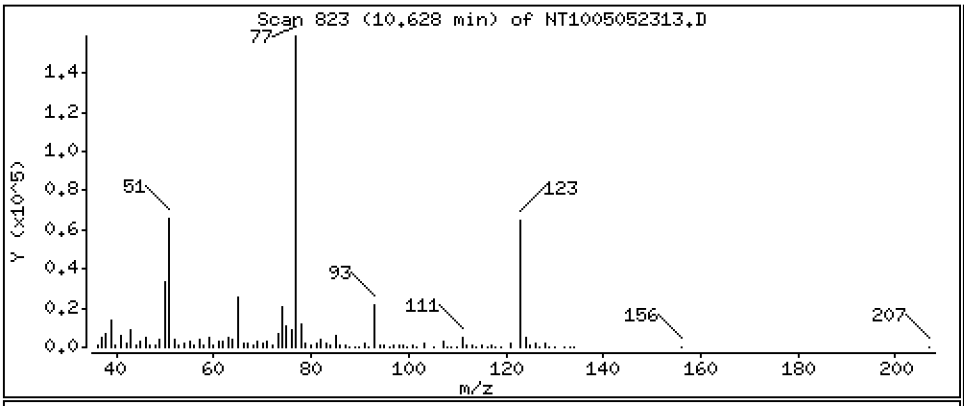
Operator: VTS

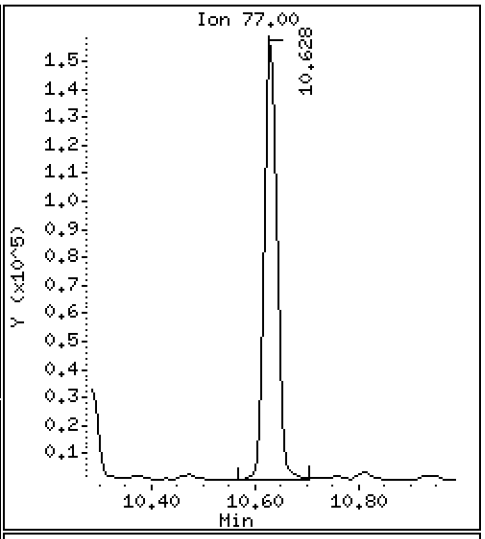
Column phase: ZB-5msi

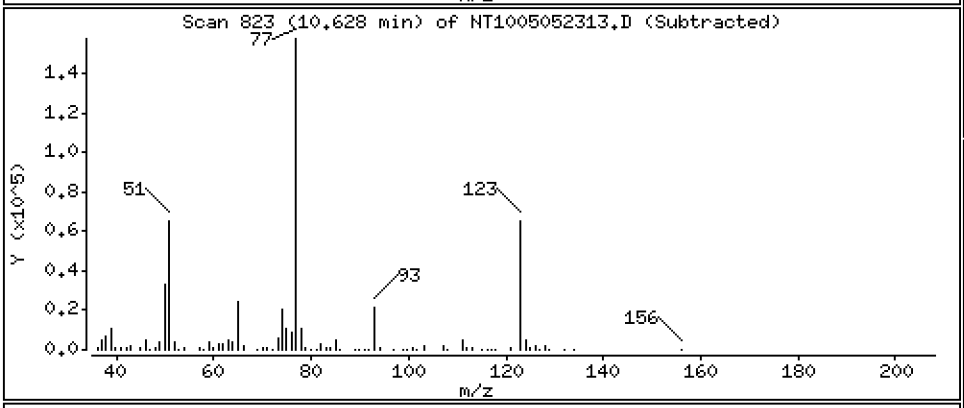
Column diameter: 0.25

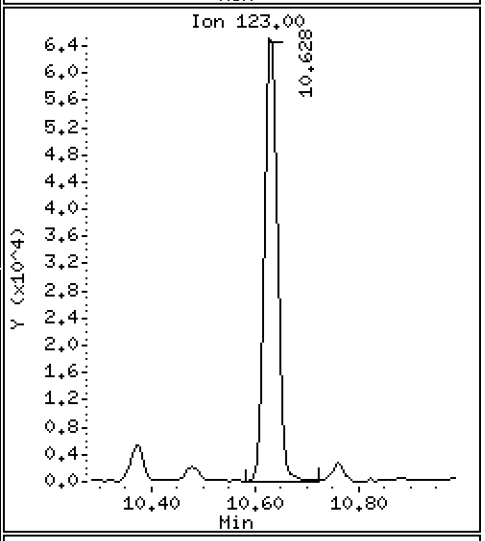
19 Nitrobenzene

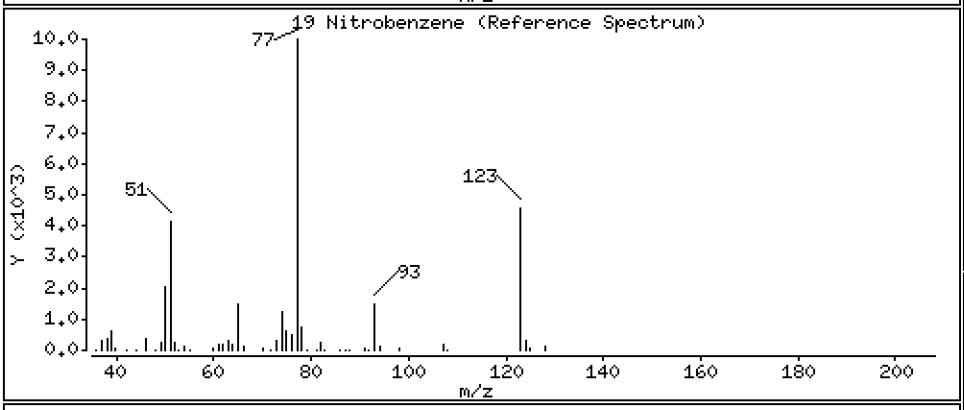
Concentration: 3.402 ug/mL

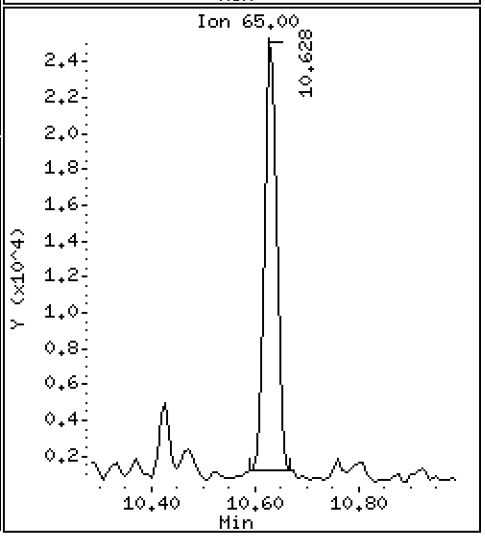


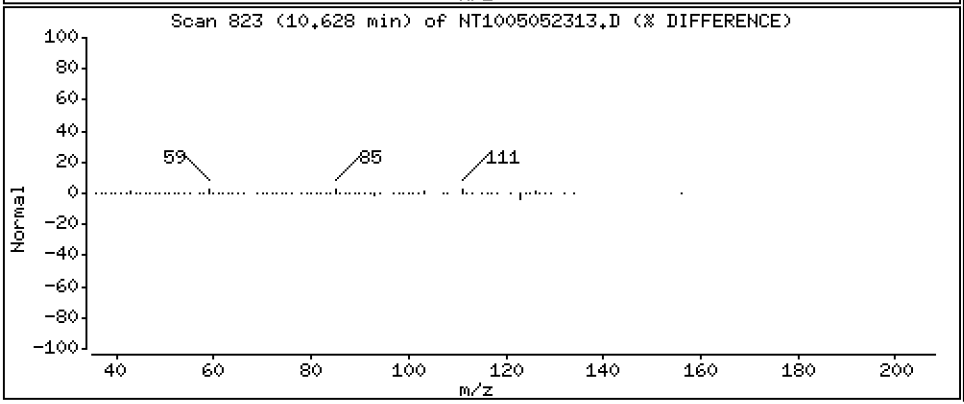












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

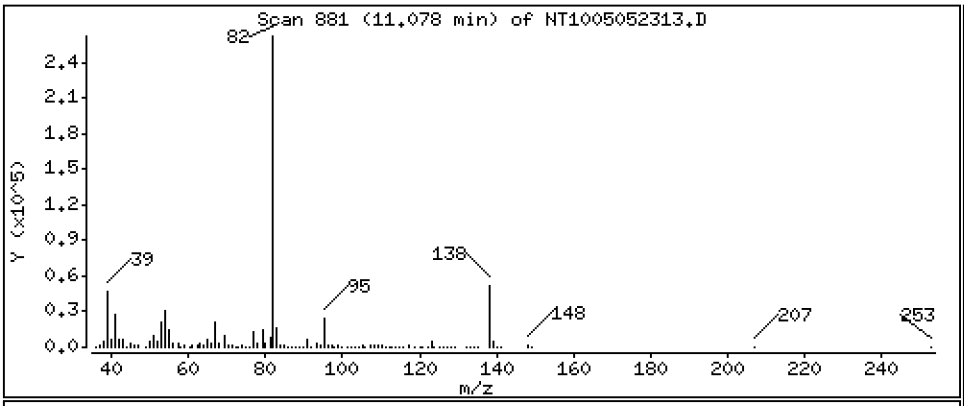
Operator: VTS

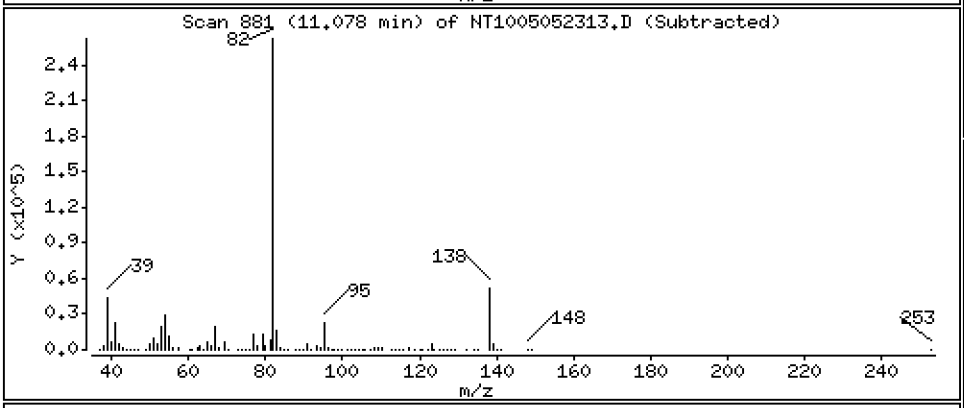
Column phase: ZB-5msi

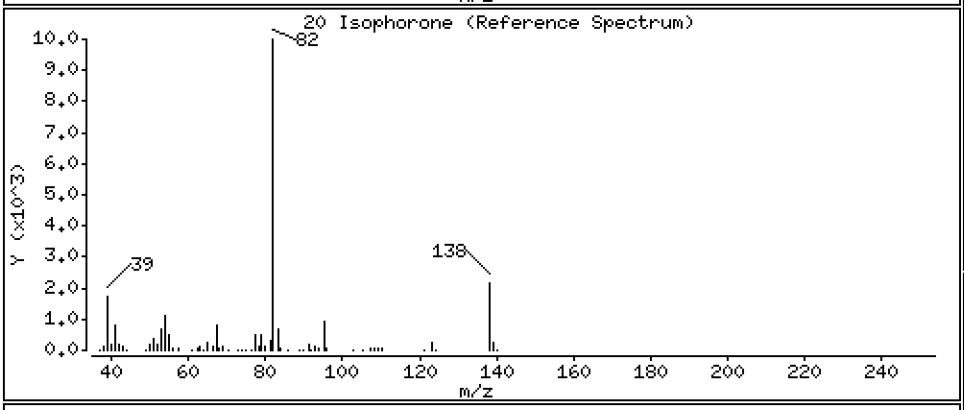
Column diameter: 0.25

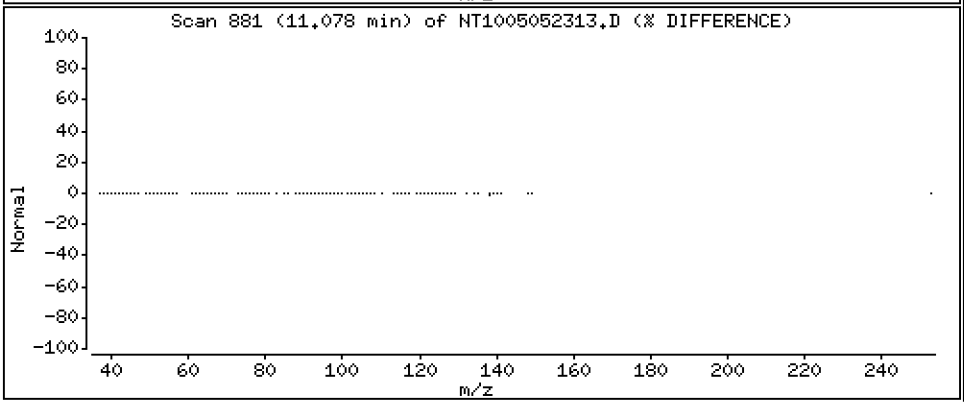
20 Isophorone

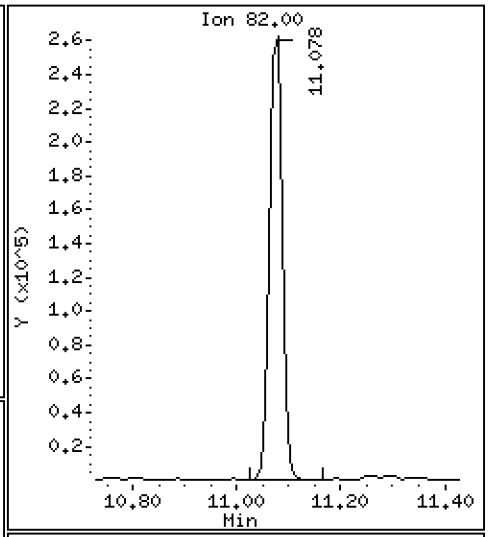
Concentration: 5.284 ug/mL

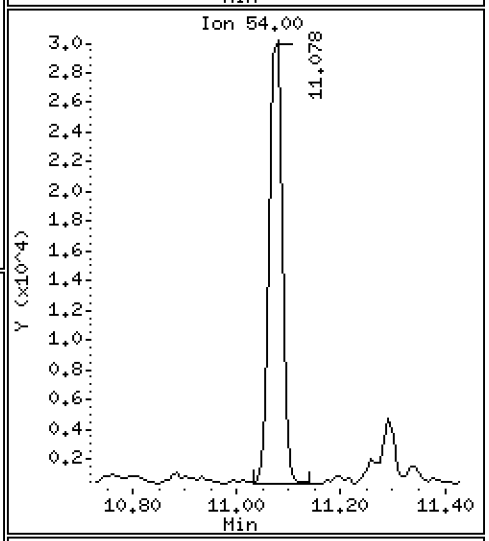


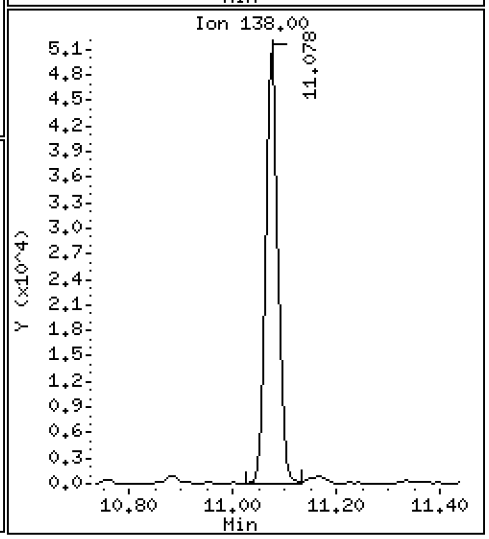












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

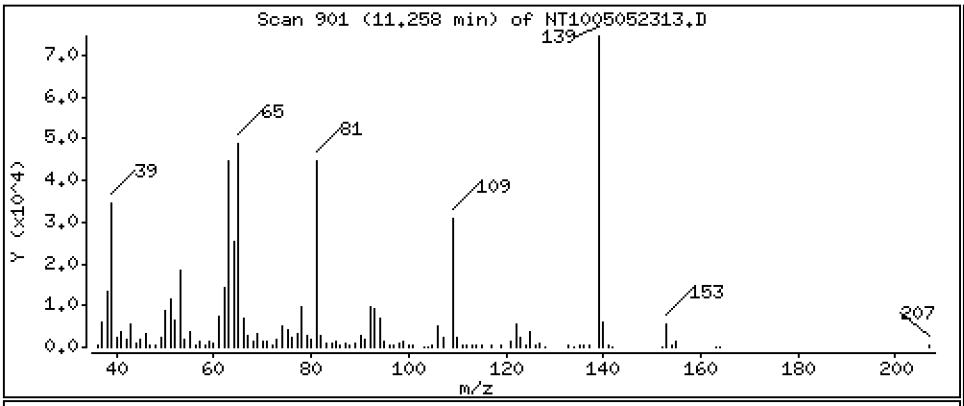
Operator: VTS

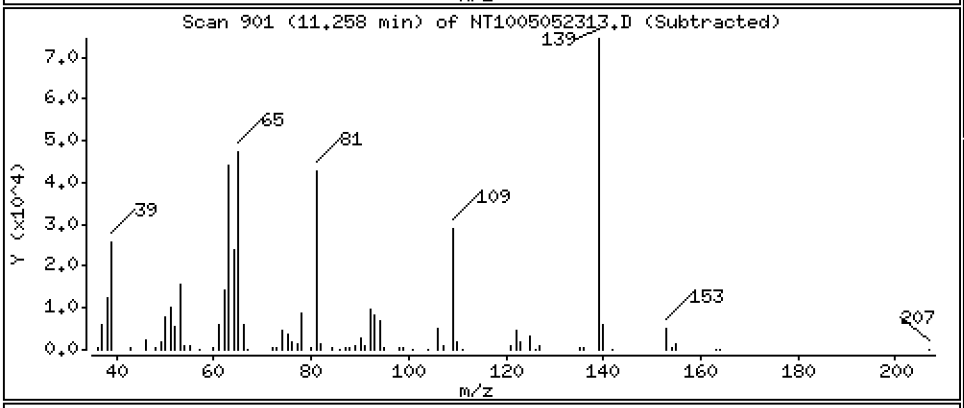
Column phase: ZB-5msi

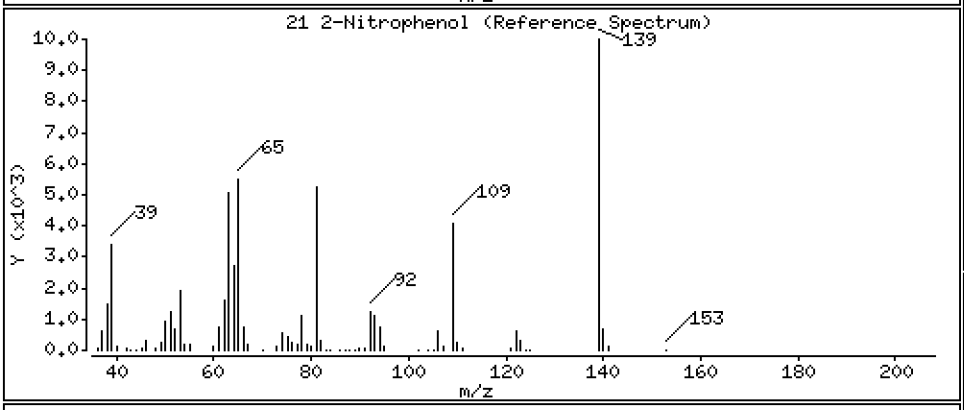
Column diameter: 0.25

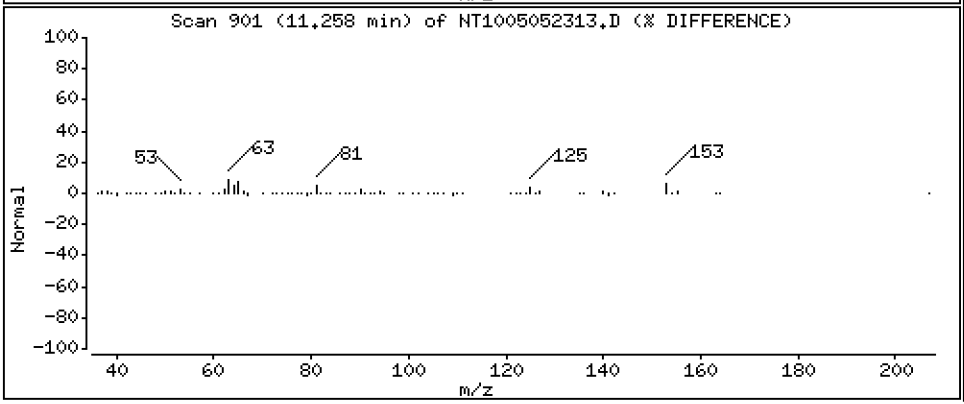
21 2-Nitrophenol

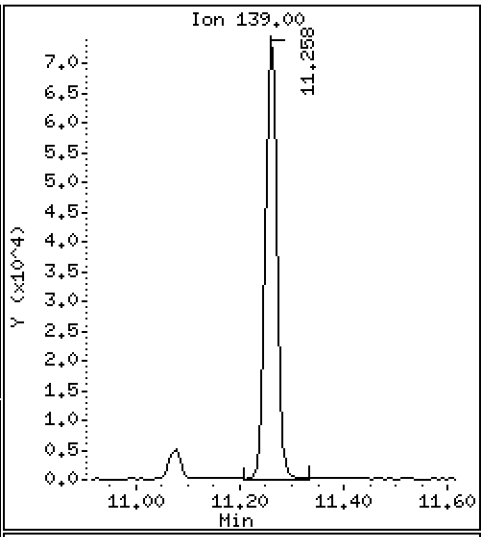
Concentration: 2.932 ug/mL

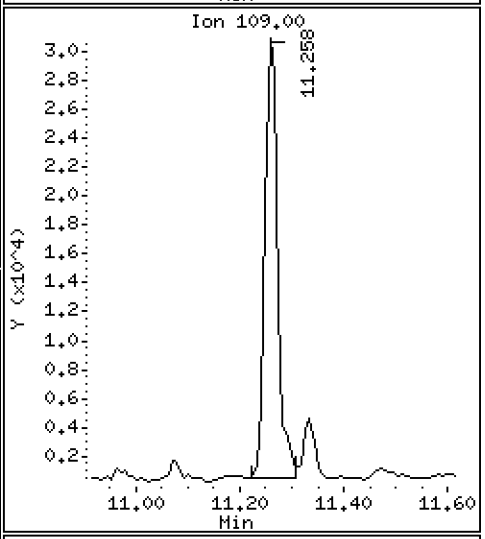


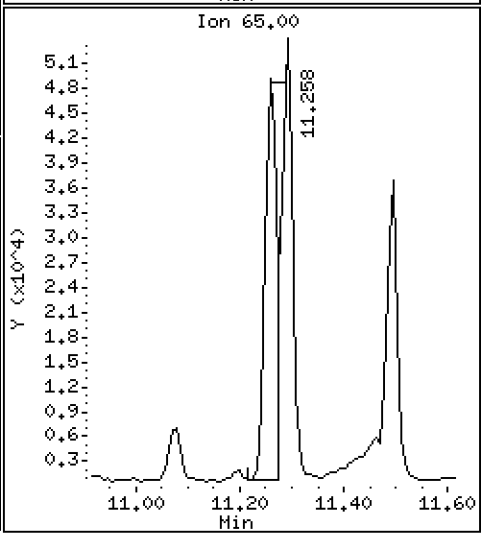












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

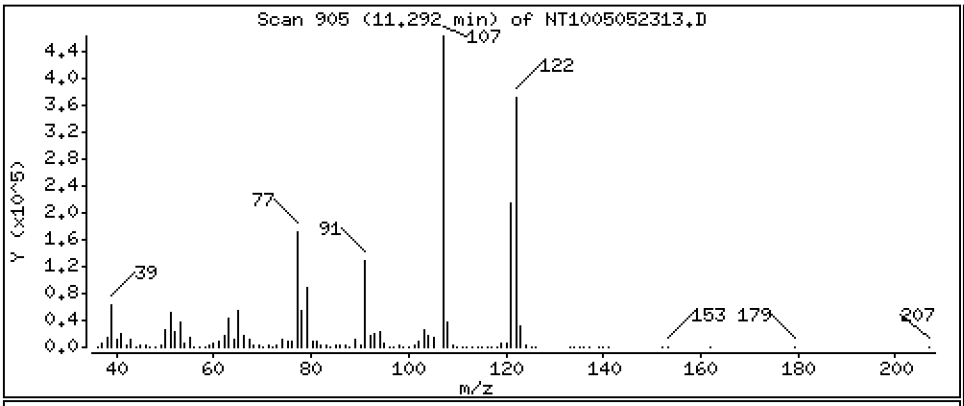
Operator: VTS

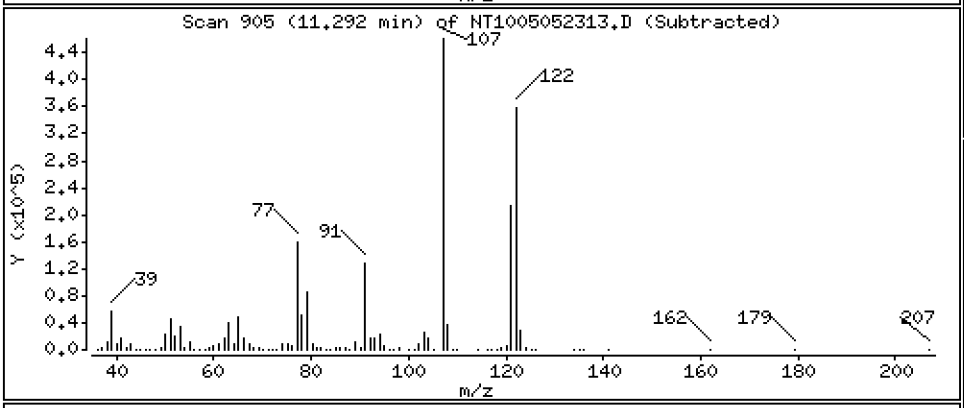
Column phase: ZB-5msi

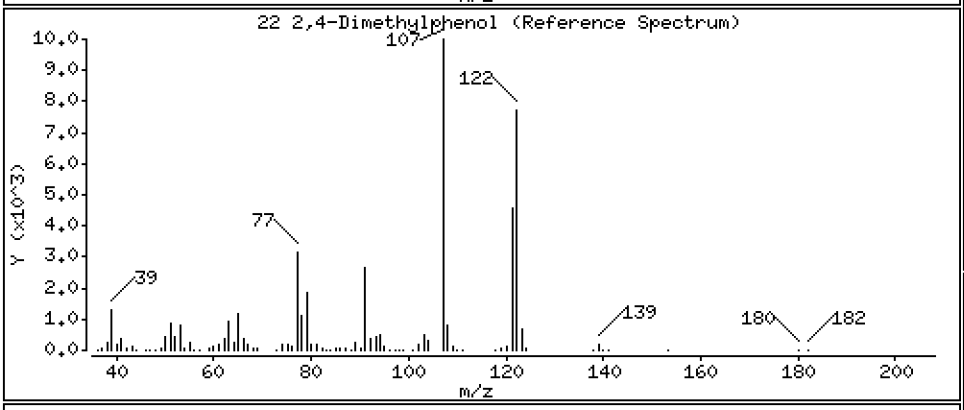
Column diameter: 0.25

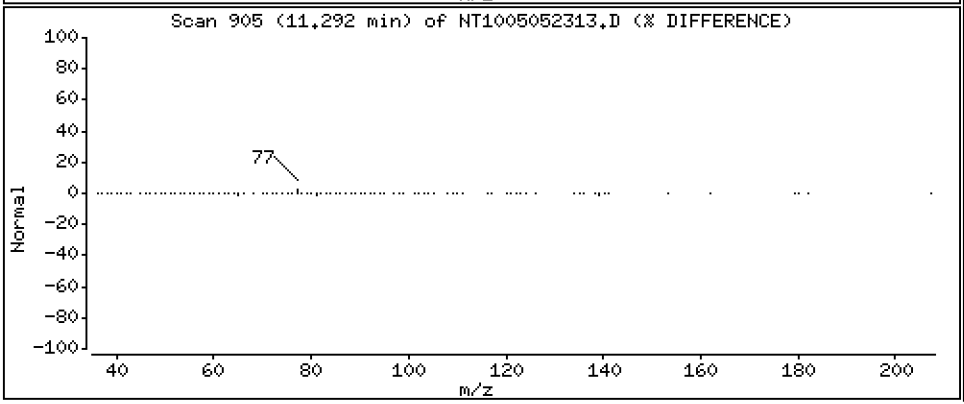
22 2,4-Dimethylphenol

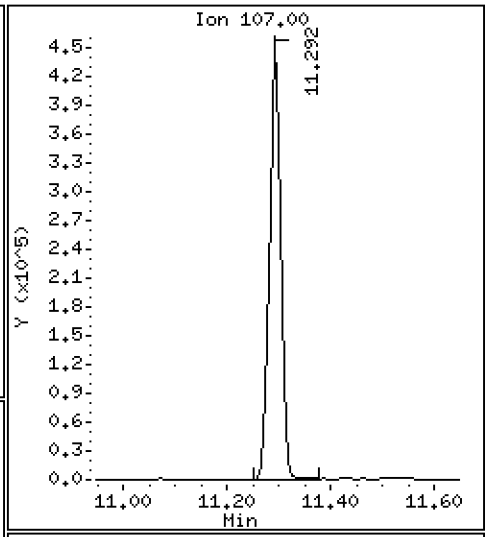
Concentration: 9.045 ug/mL

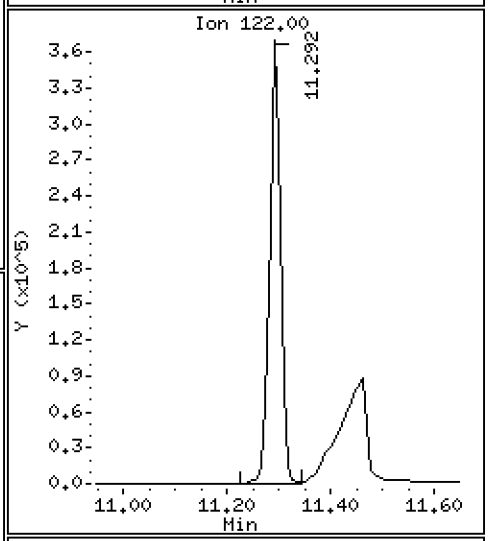


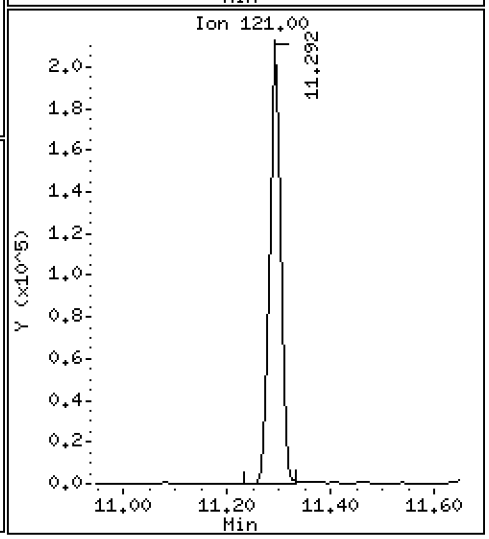












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

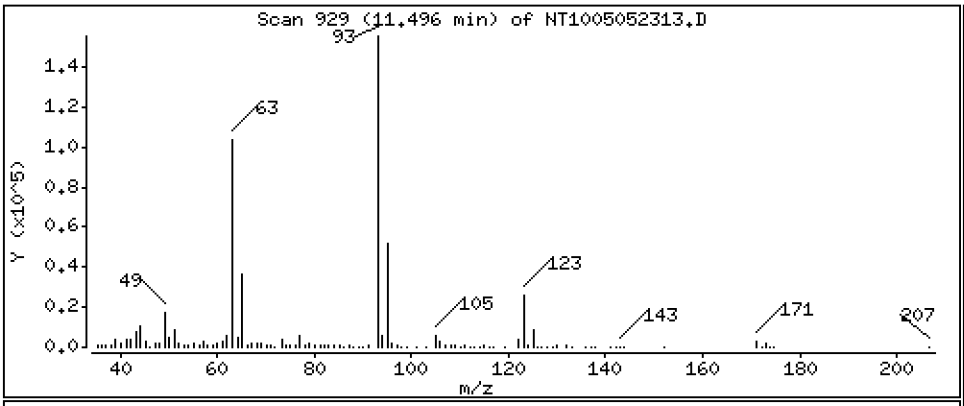
Operator: VTS

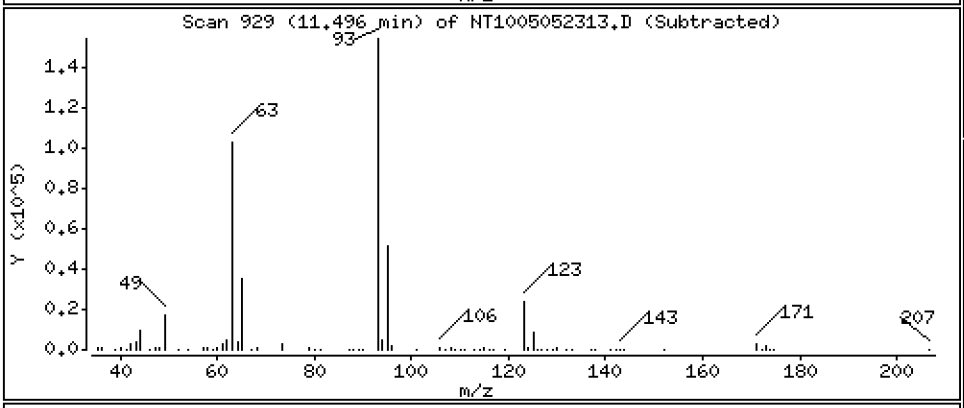
Column phase: ZB-5msi

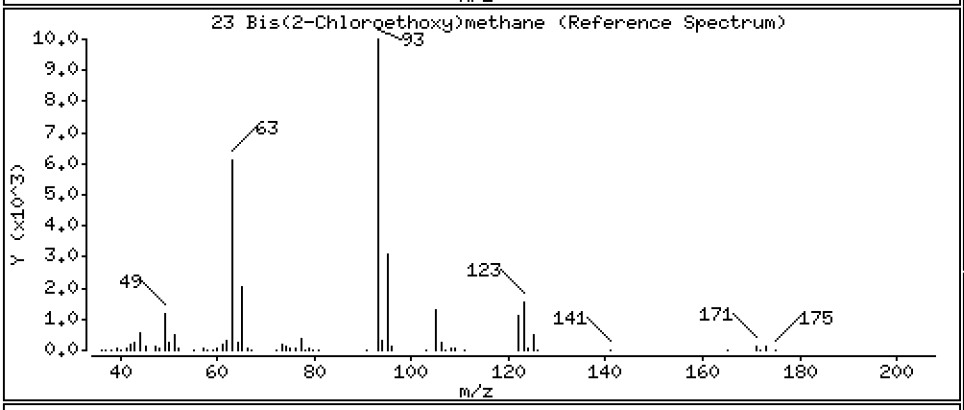
Column diameter: 0.25

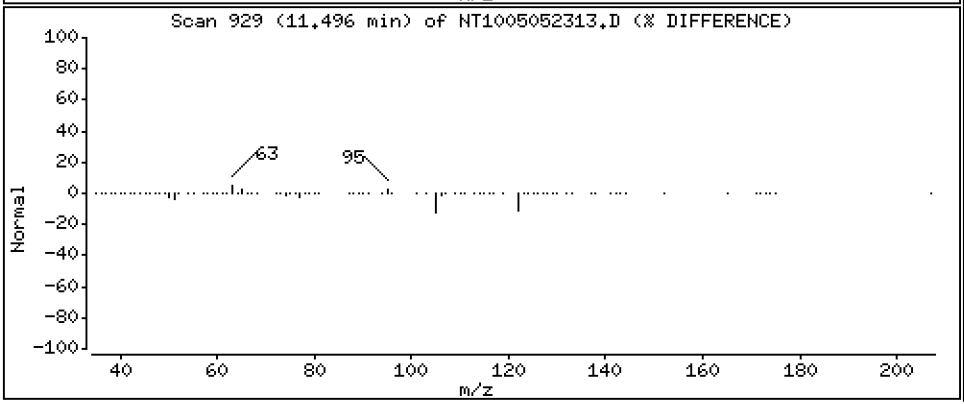
23 Bis(2-Chloroethoxy)methane

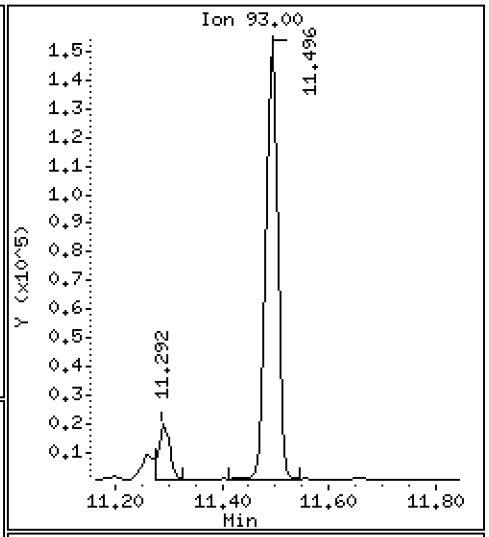
Concentration: 3.931 ug/mL

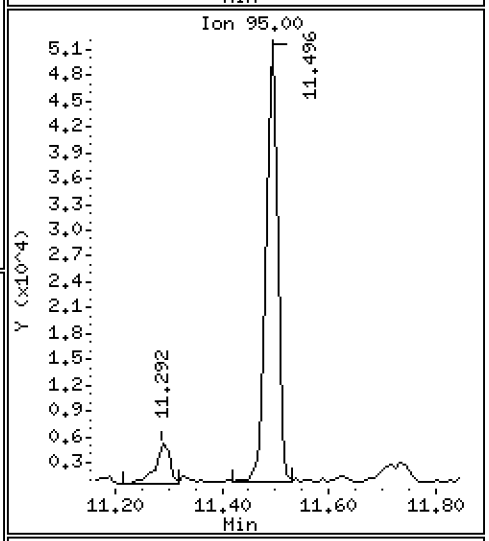


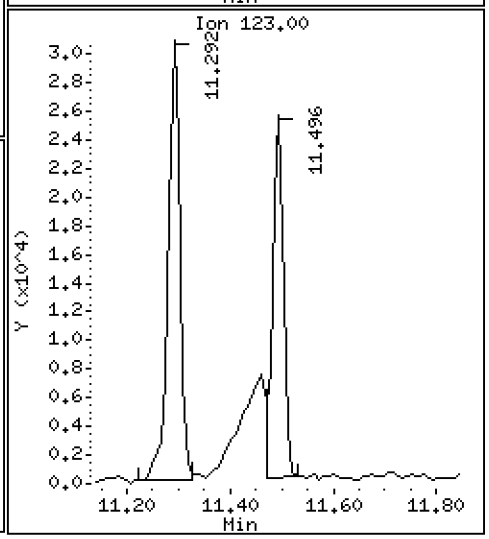












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

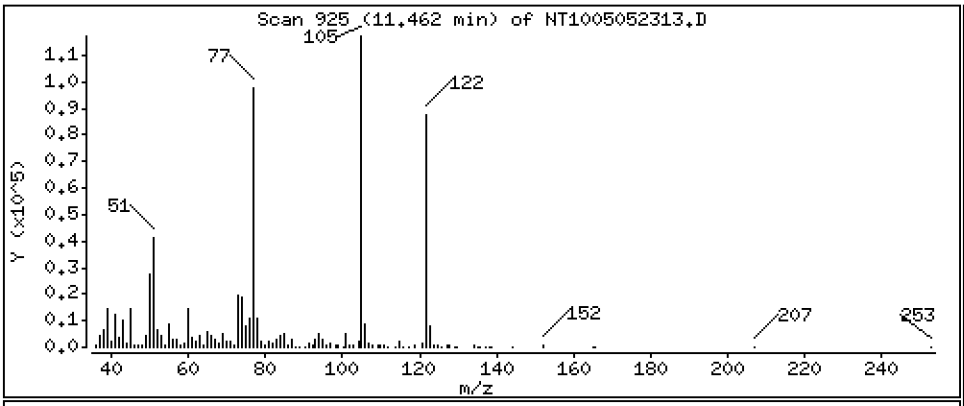
Operator: VTS

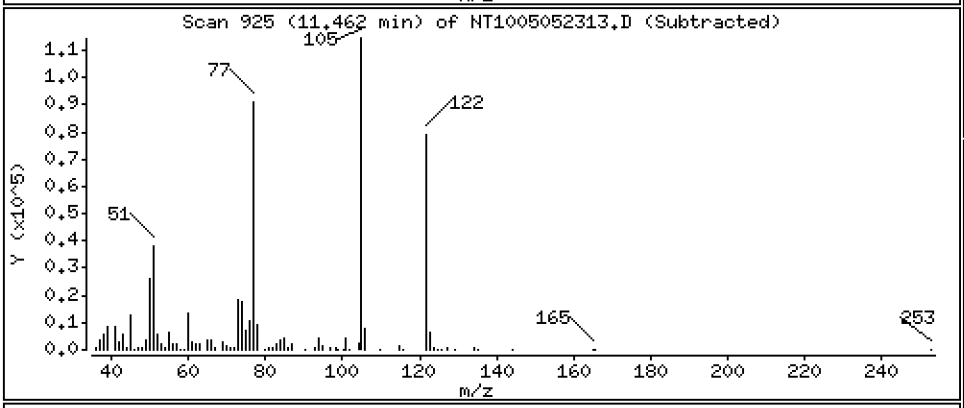
Column phase: ZB-5msi

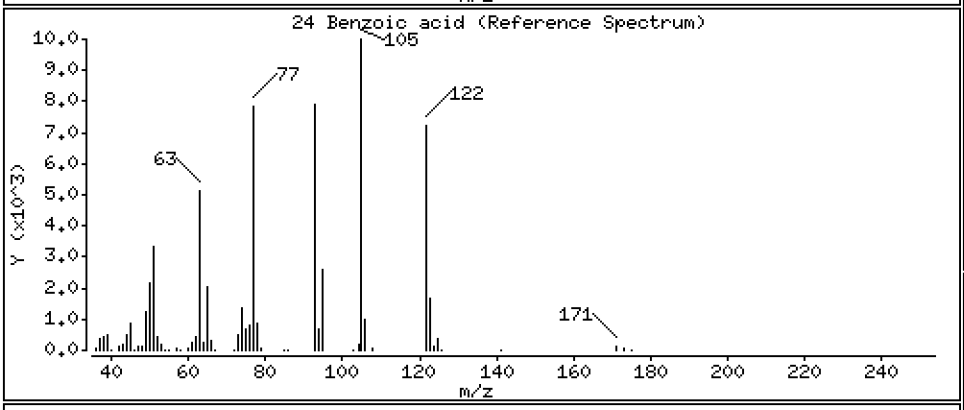
Column diameter: 0.25

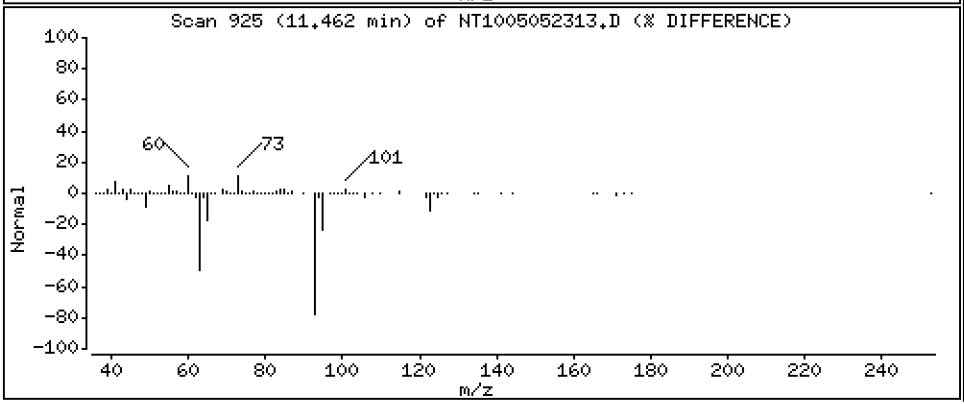
24 Benzoic acid

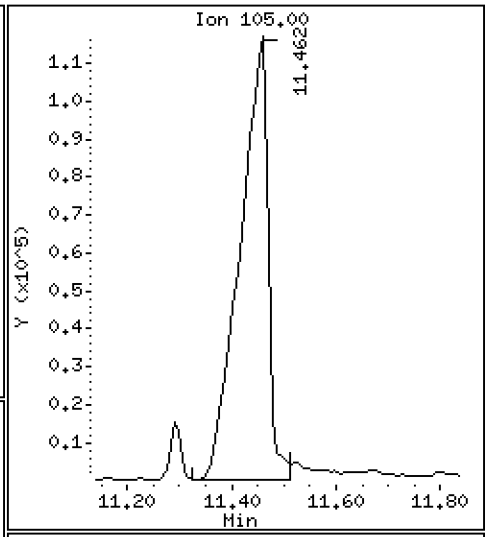
Concentration: 8.407 ug/mL

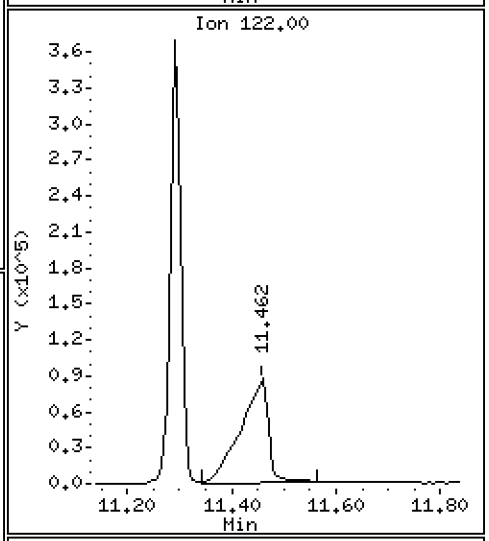


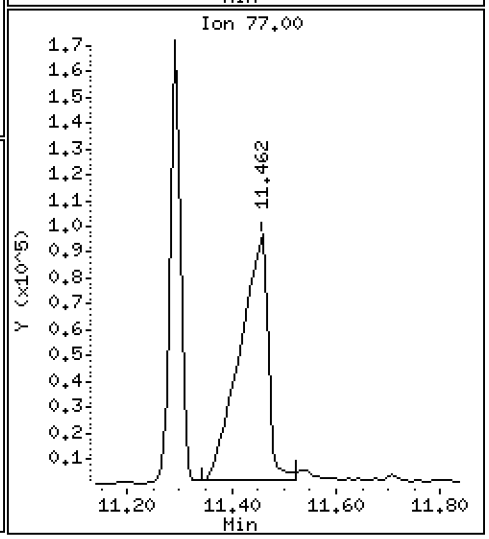












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

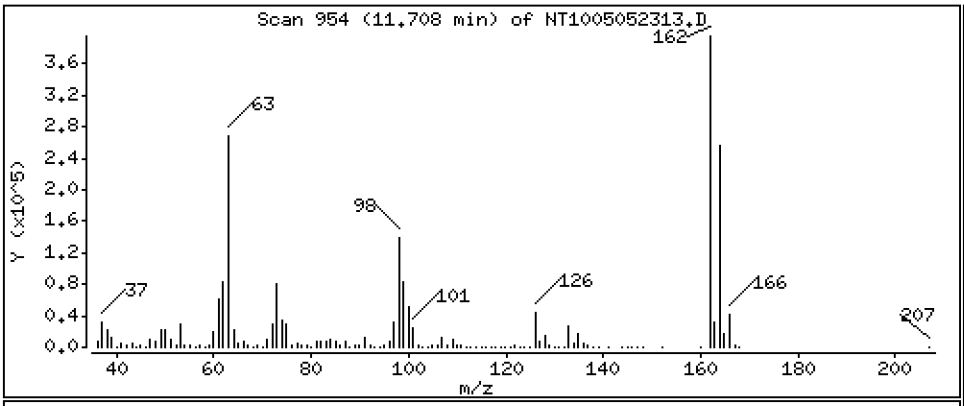
Operator: VTS

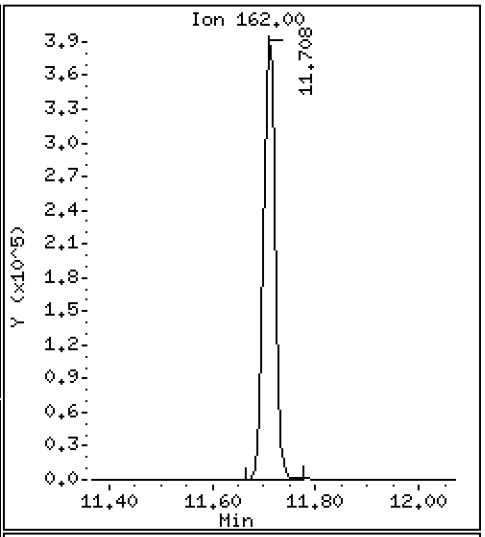
Column phase: ZB-5msi

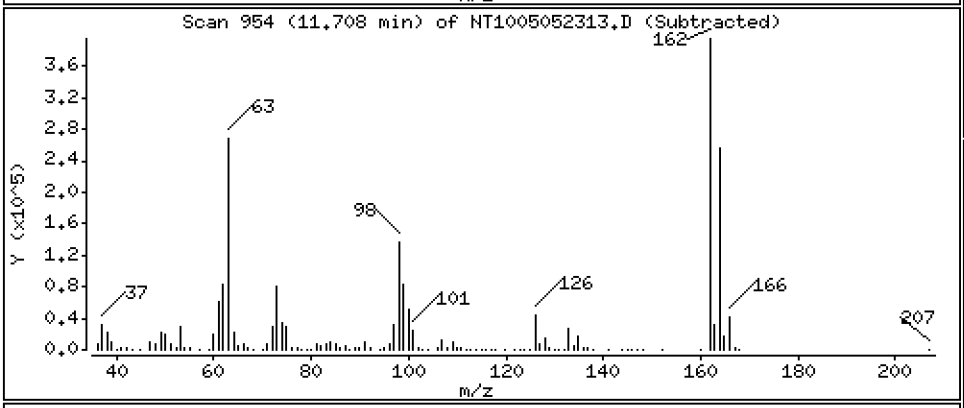
Column diameter: 0.25

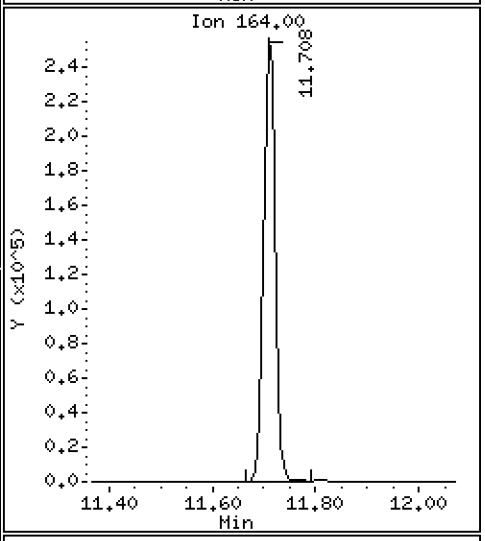
25 2,4-Dichlorophenol

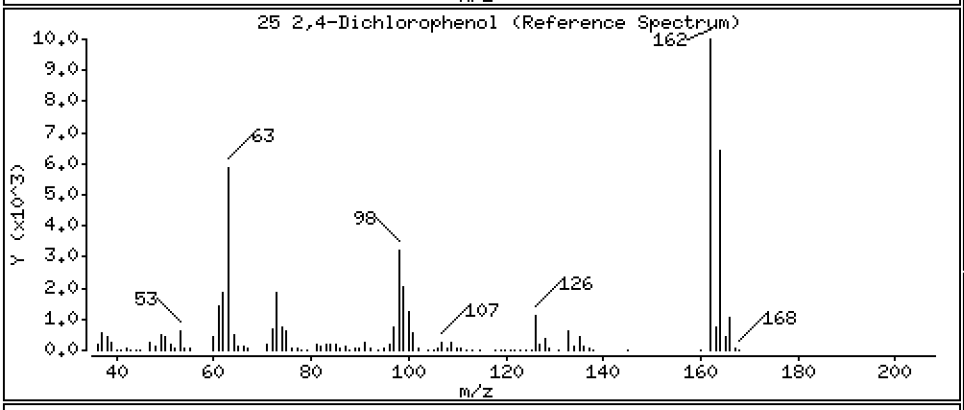
Concentration: 10.76 ug/mL

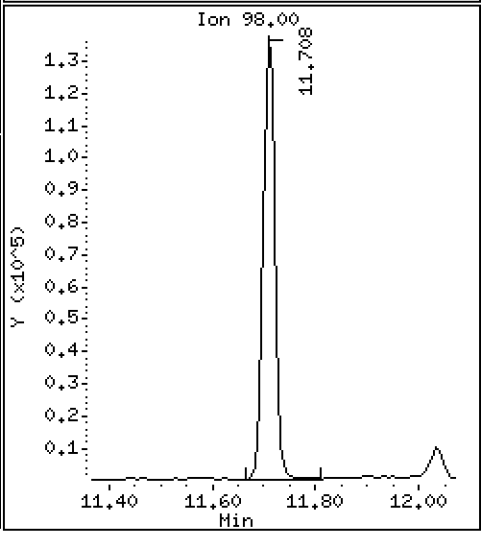


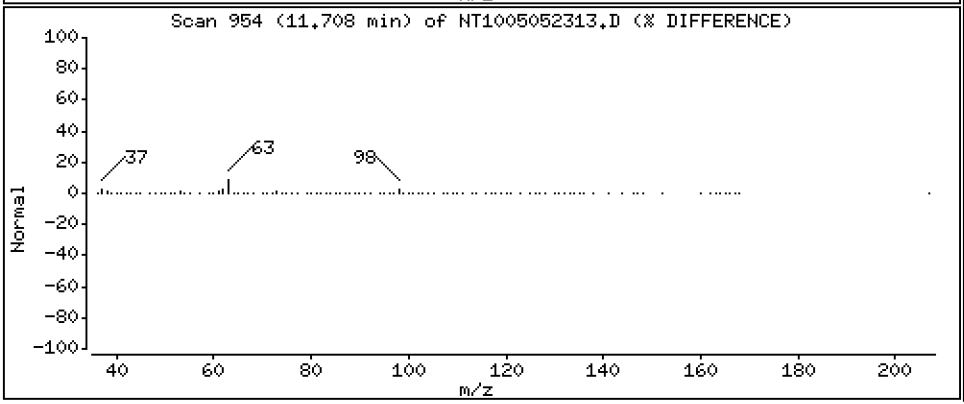












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

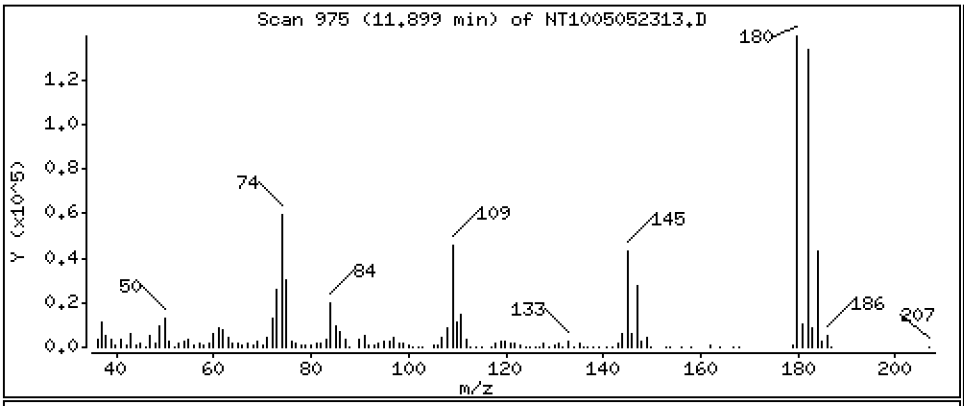
Operator: VTS

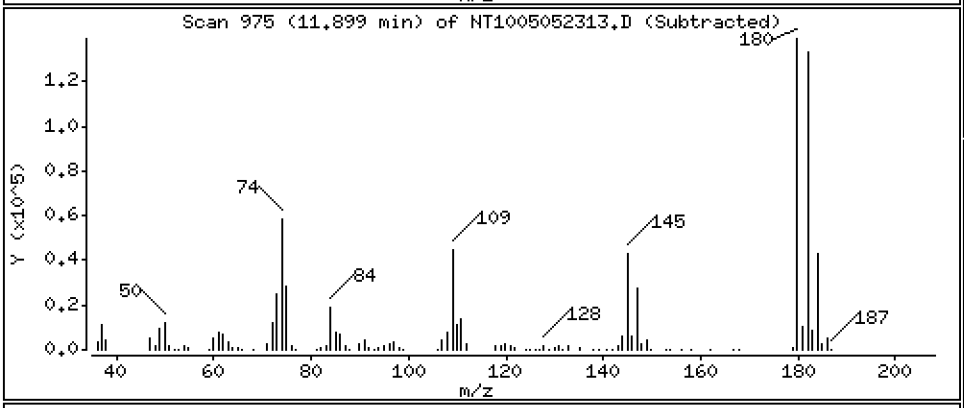
Column phase: ZB-5msi

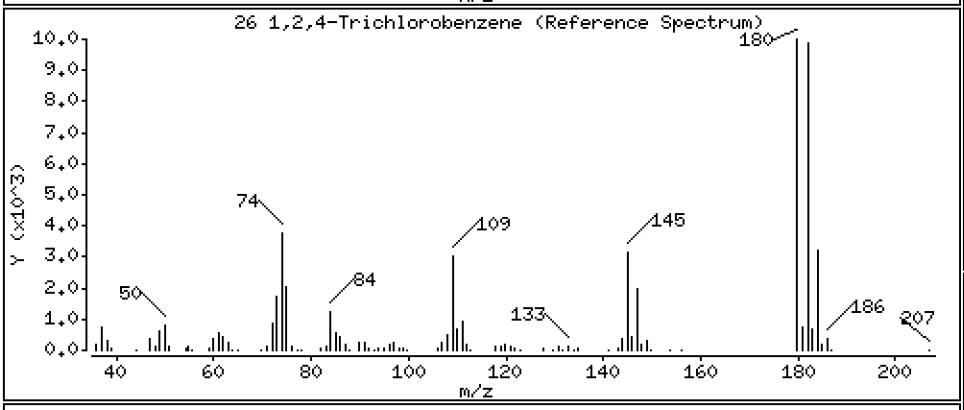
Column diameter: 0.25

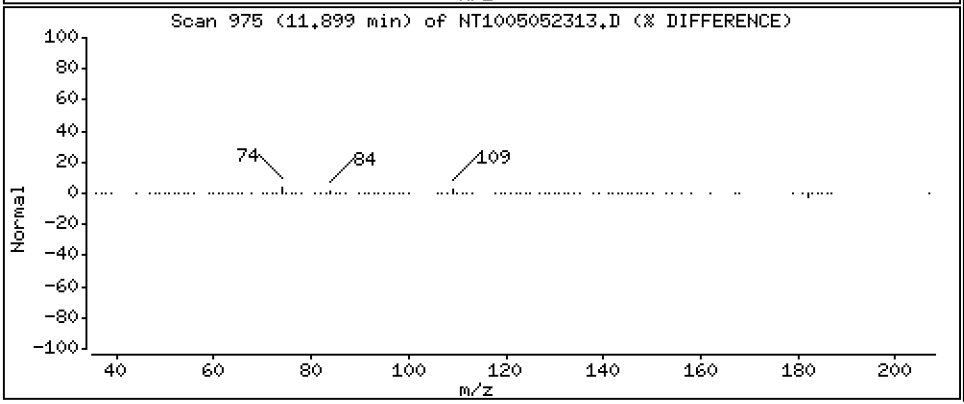
26 1,2,4-Trichlorobenzene

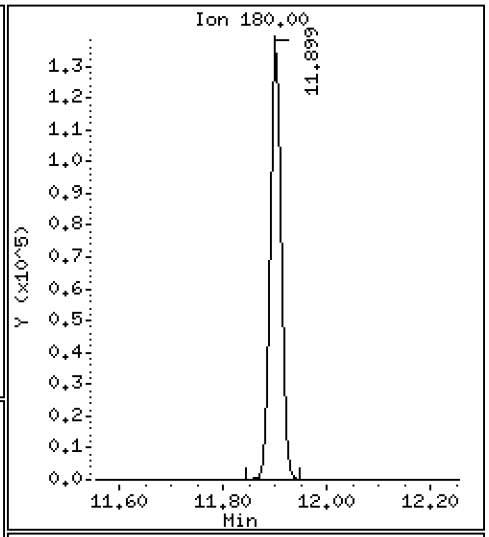
Concentration: 3.028 ug/mL

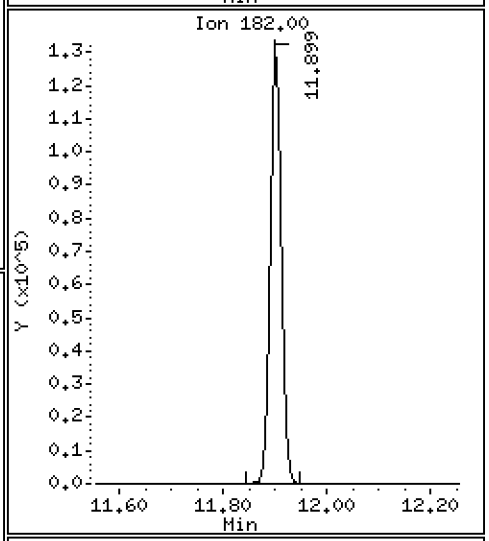


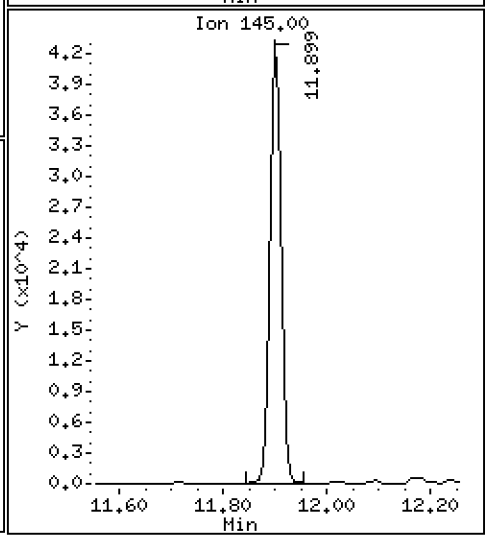












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

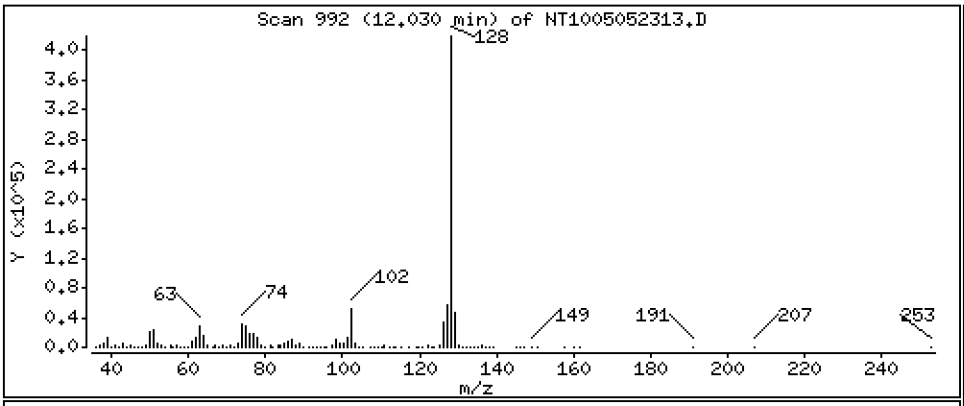
Operator: VTS

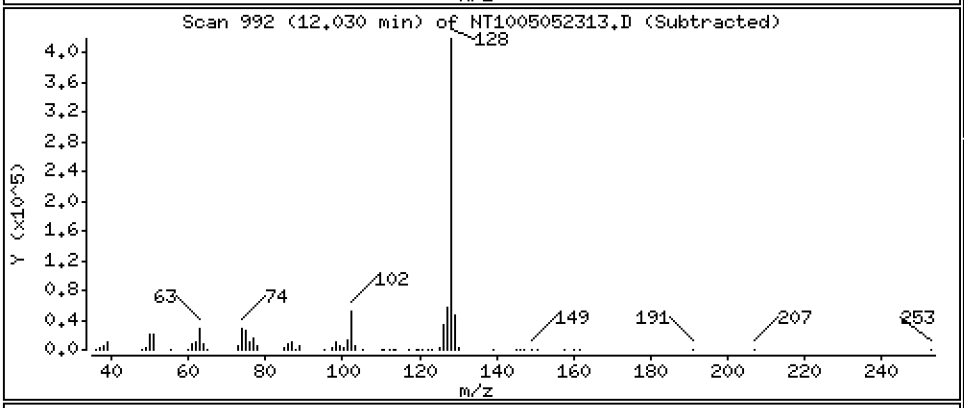
Column phase: ZB-5msi

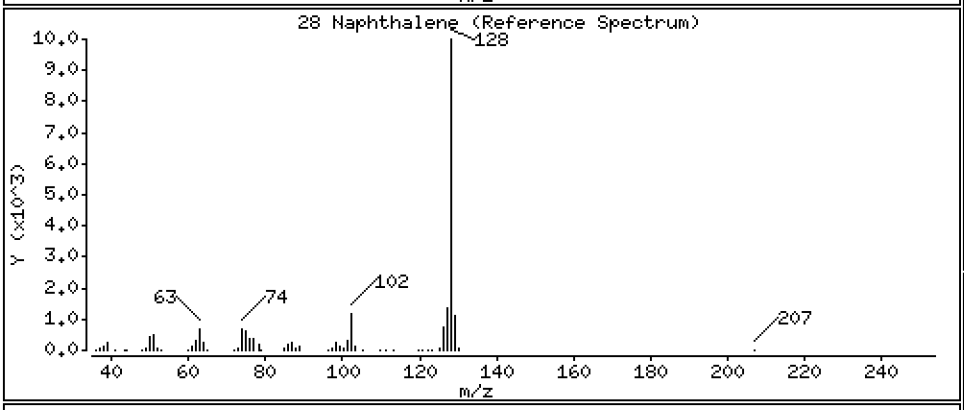
Column diameter: 0.25

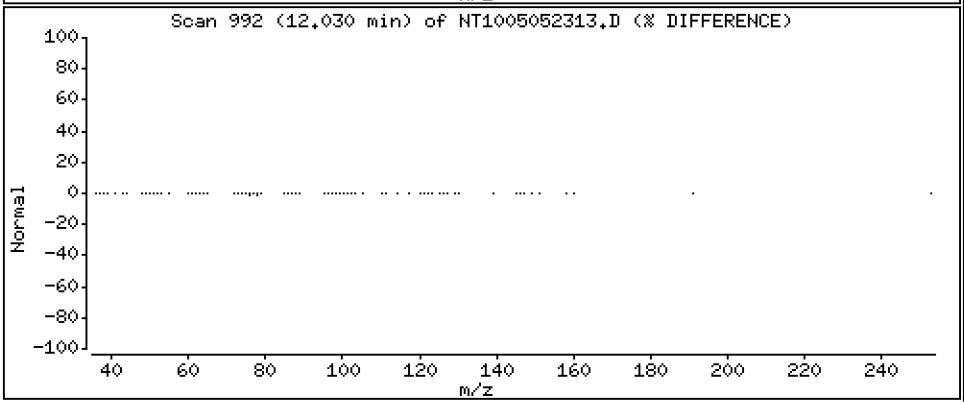
28 Naphthalene

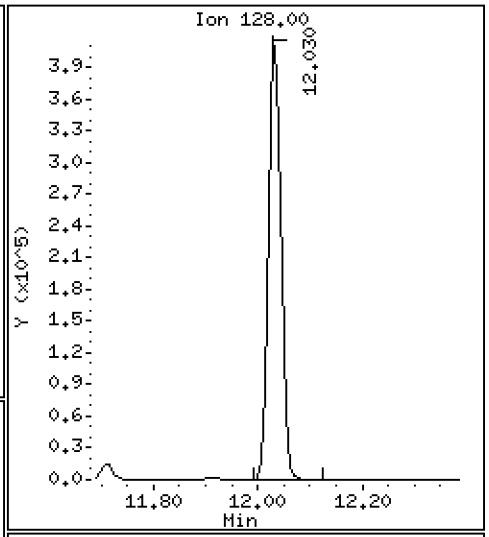
Concentration: 3.371 ug/mL

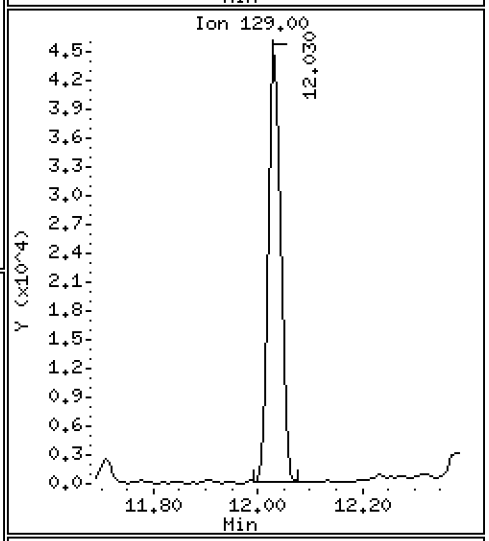


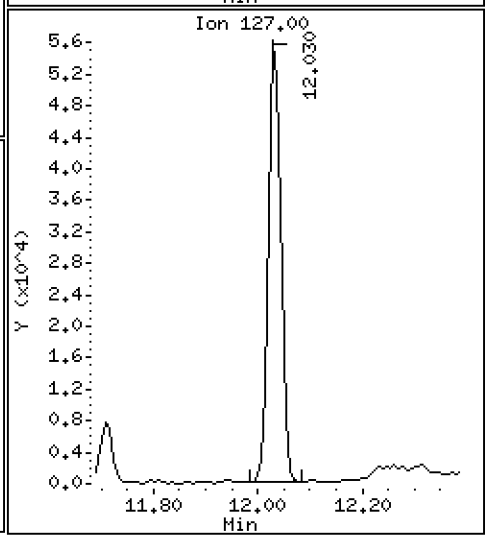












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

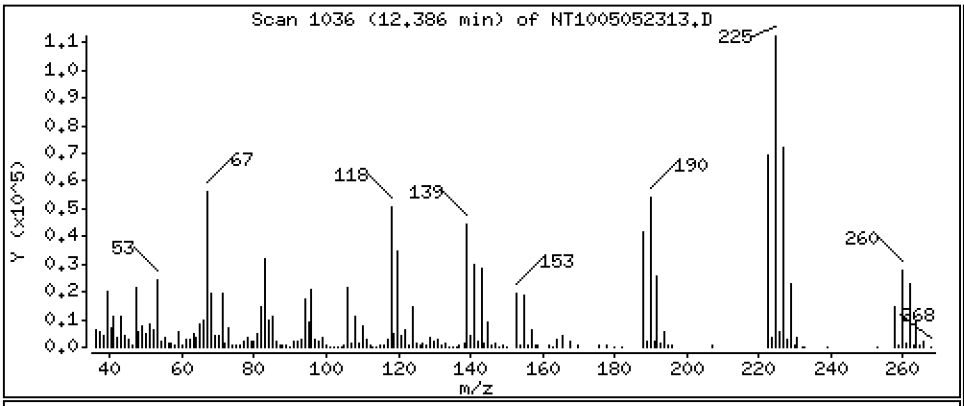
Operator: VTS

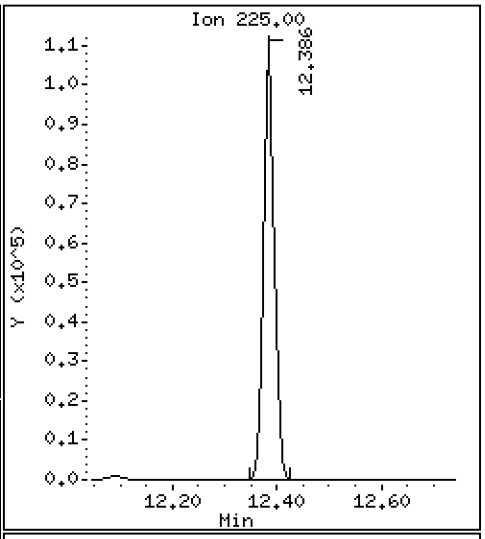
Column phase: ZB-5msi

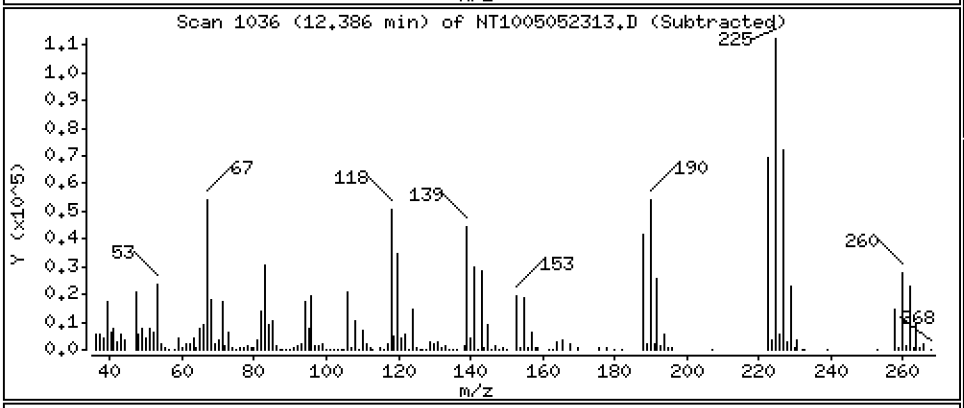
Column diameter: 0.25

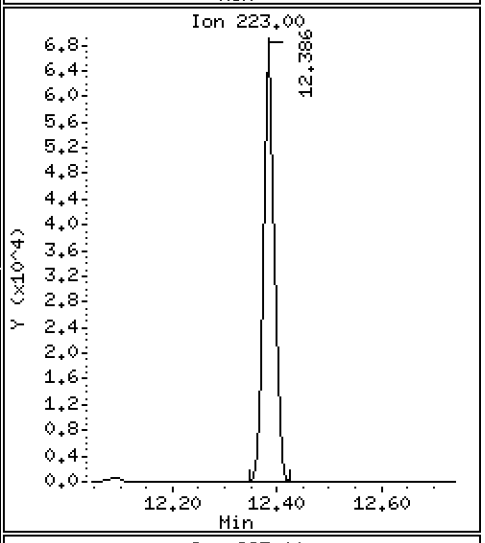
30 Hexachlorobutadiene

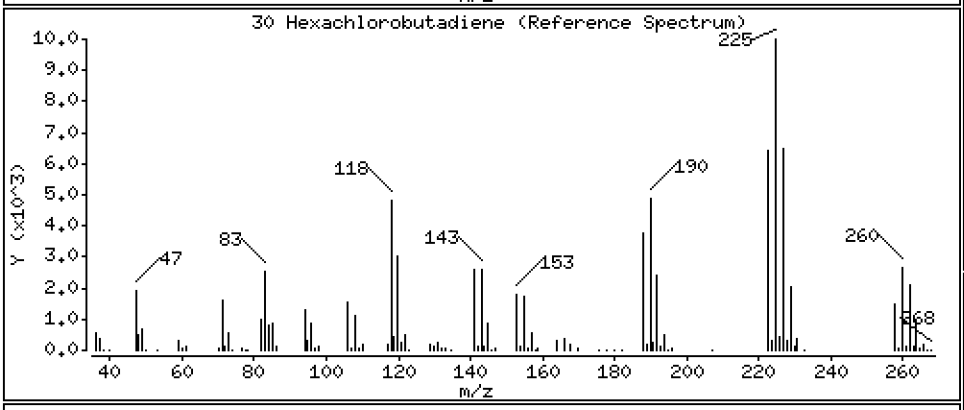
Concentration: 3.314 ug/mL

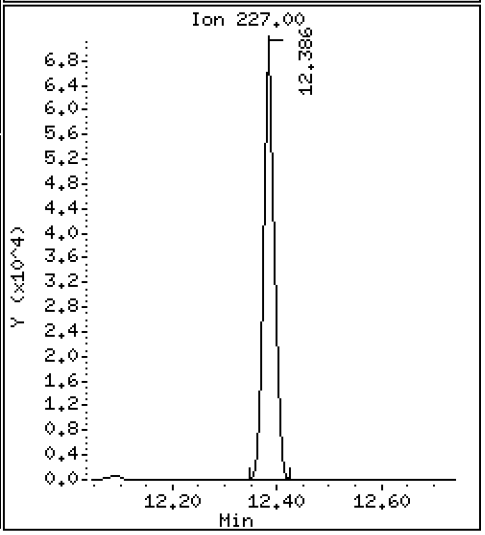


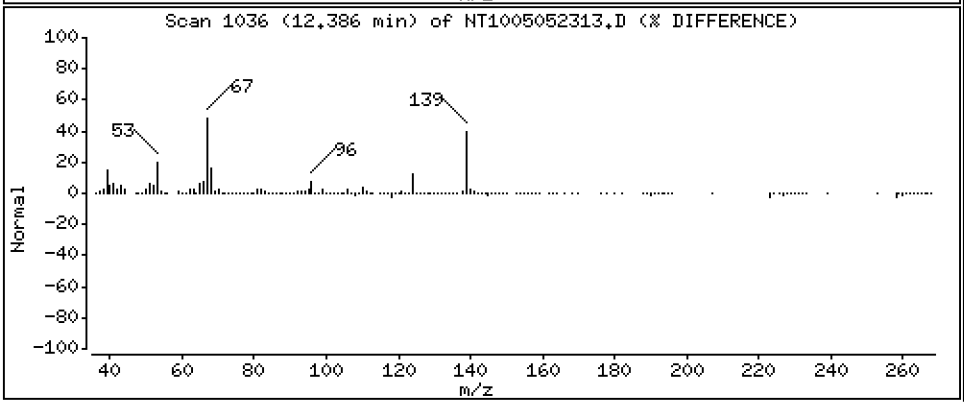












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

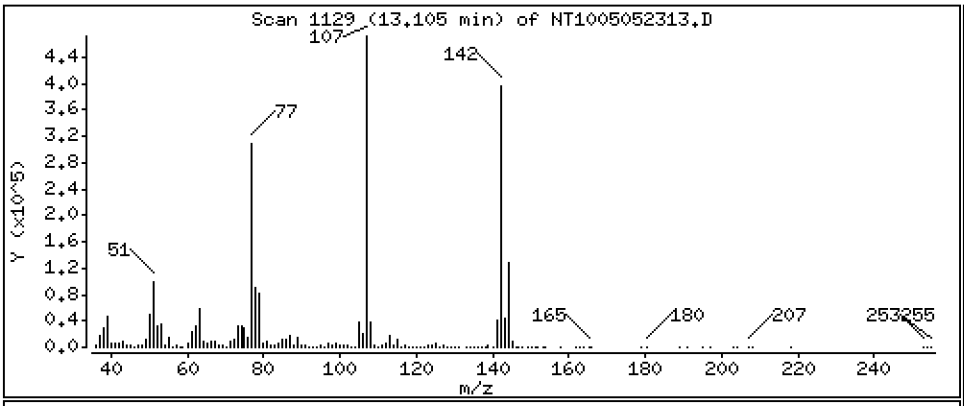
Operator: VTS

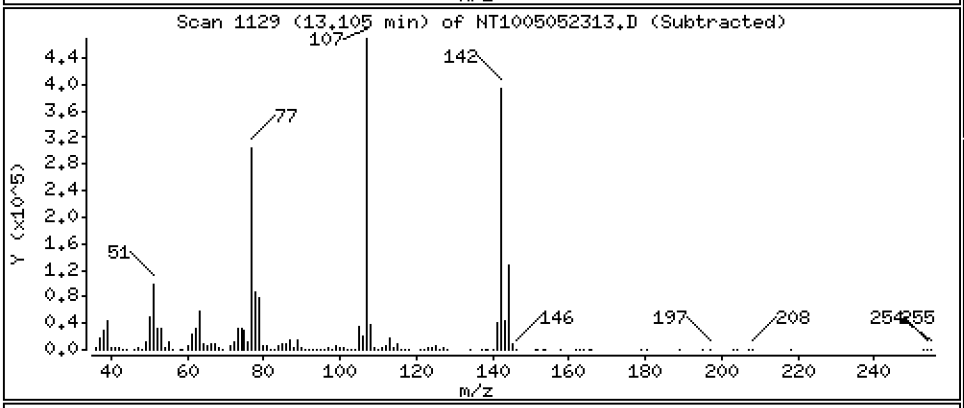
Column phase: ZB-5msi

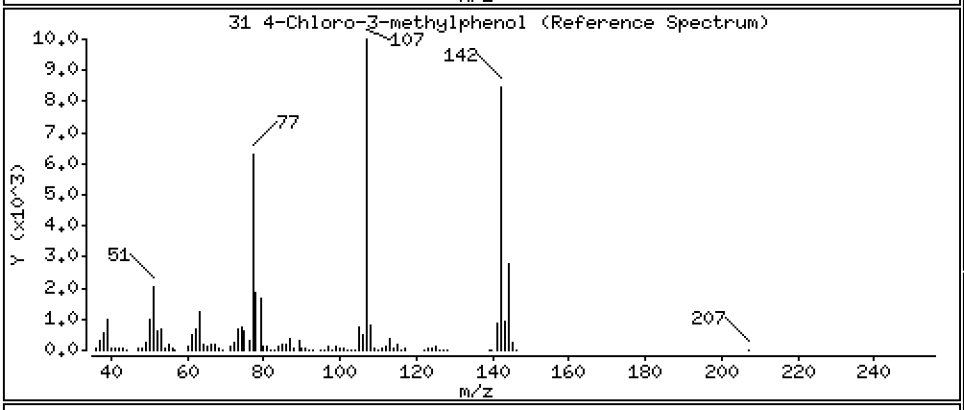
Column diameter: 0.25

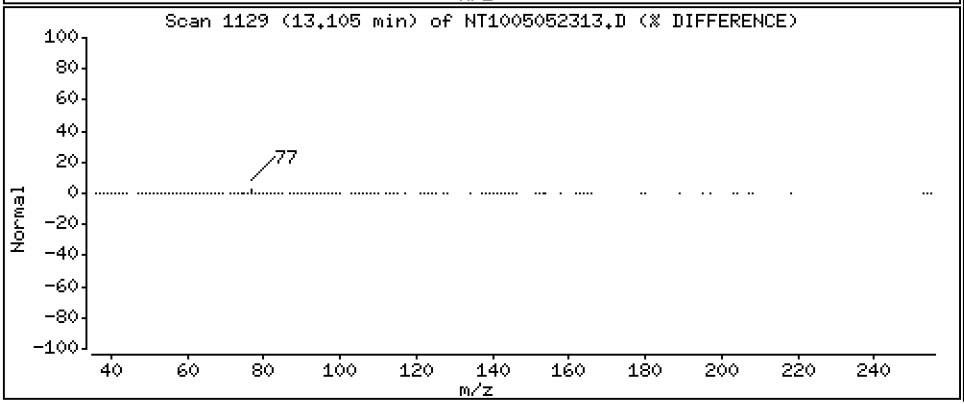
31 4-Chloro-3-methylphenol

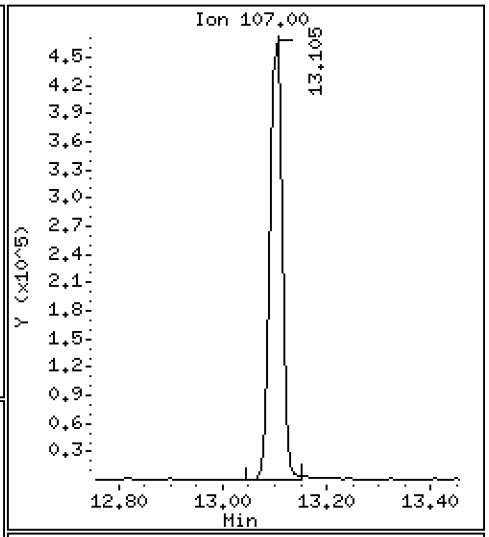
Concentration: 11.34 ug/mL

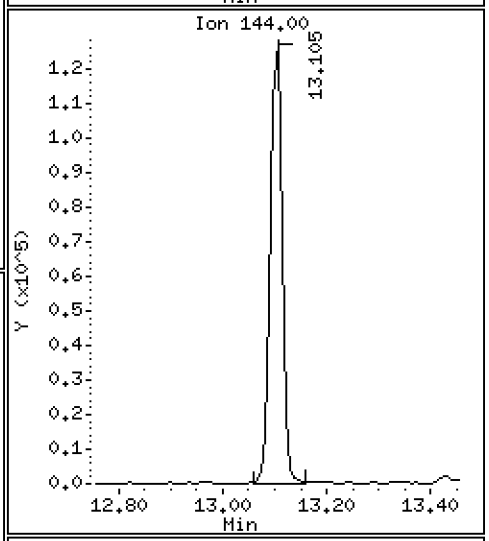


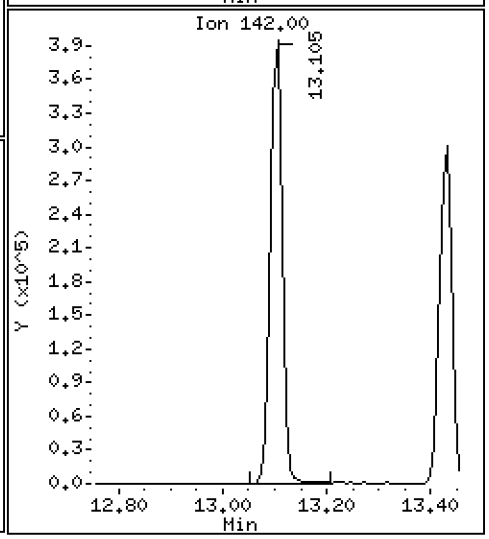












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

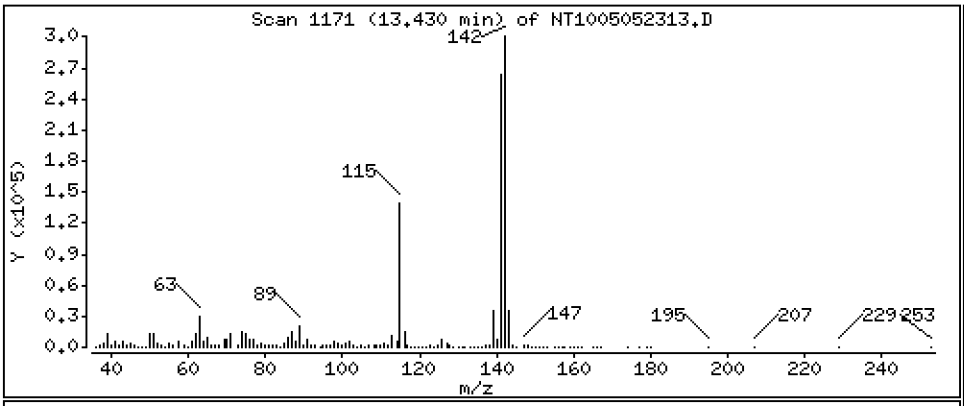
Operator: VTS

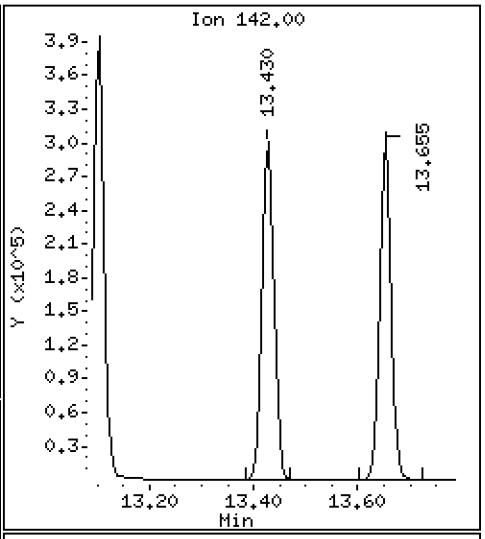
Column phase: ZB-5msi

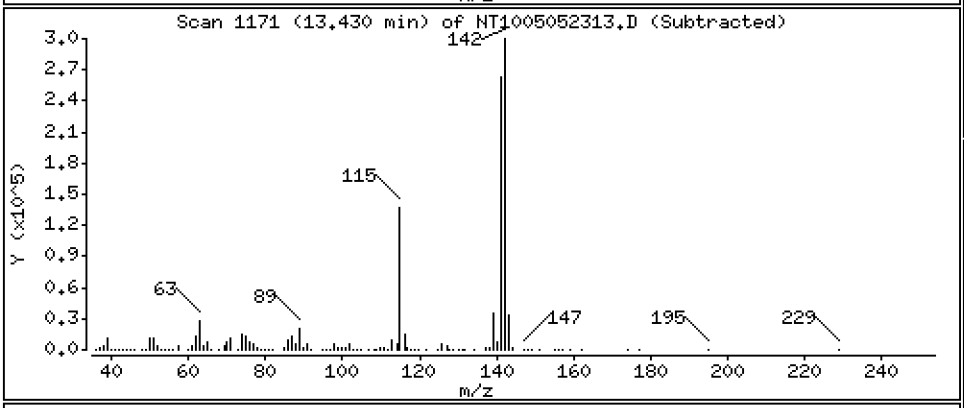
Column diameter: 0.25

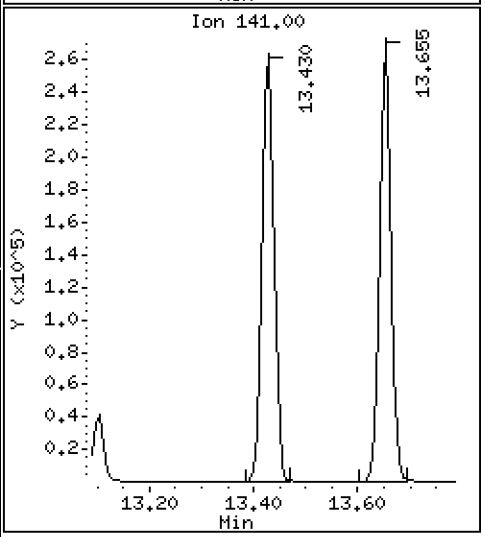
32 2-Methylnaphthalene

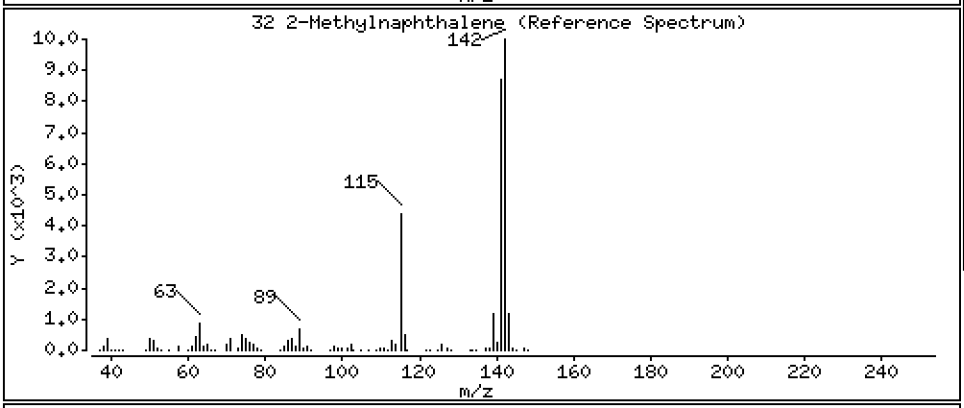
Concentration: 3.252 ug/mL

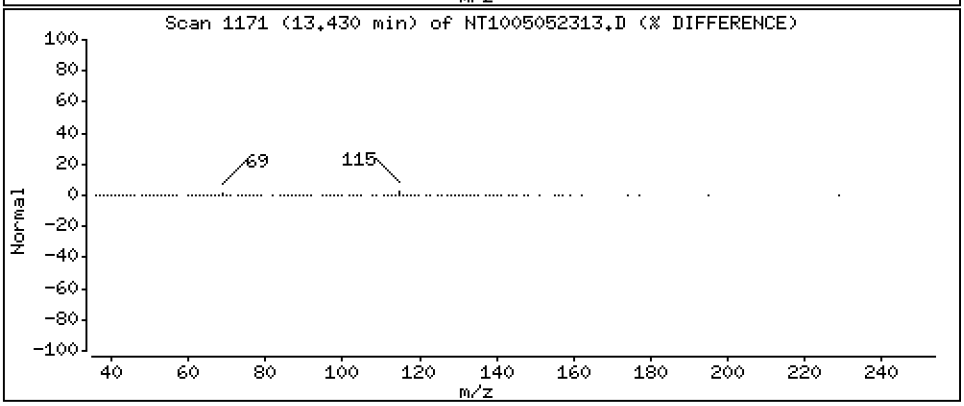












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

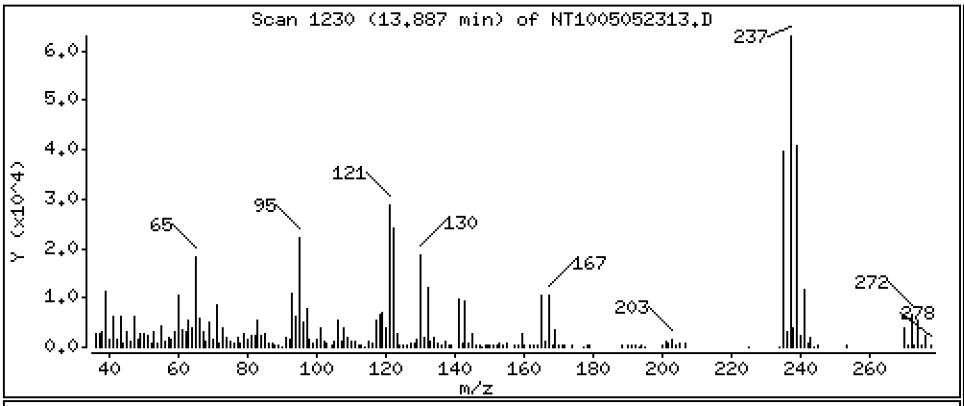
Operator: VTS

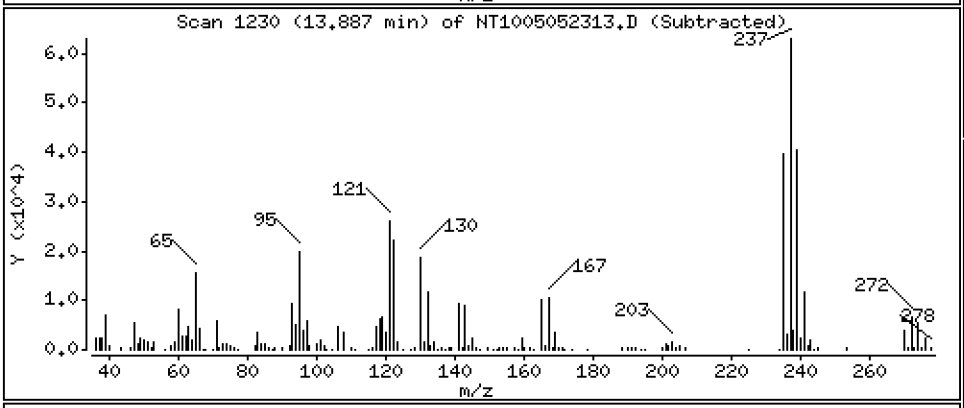
Column phase: ZB-5msi

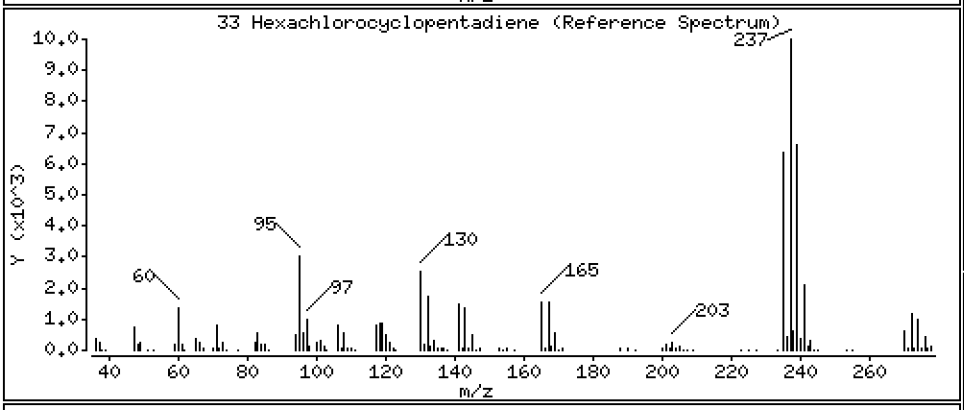
Column diameter: 0.25

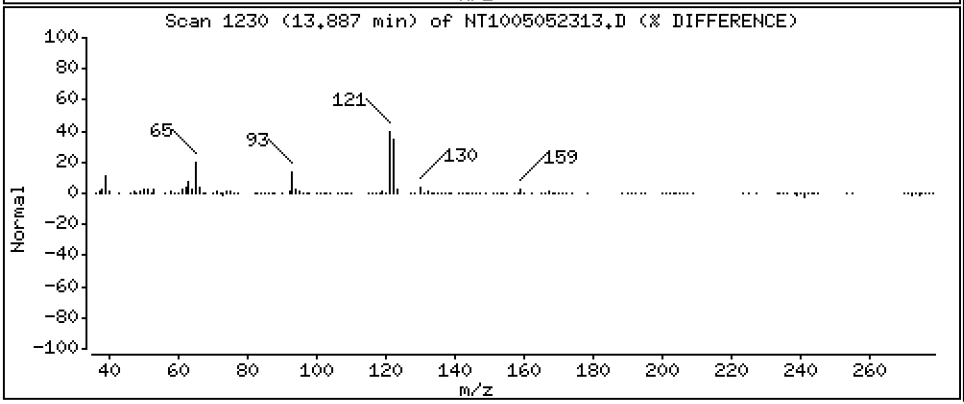
33 Hexachlorocyclopentadiene

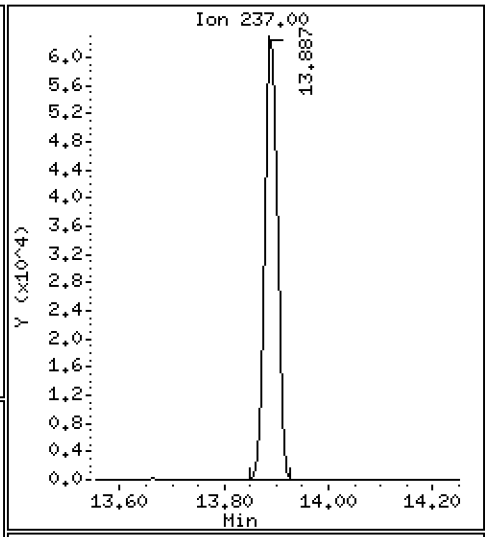
Concentration: 2.107 ug/mL

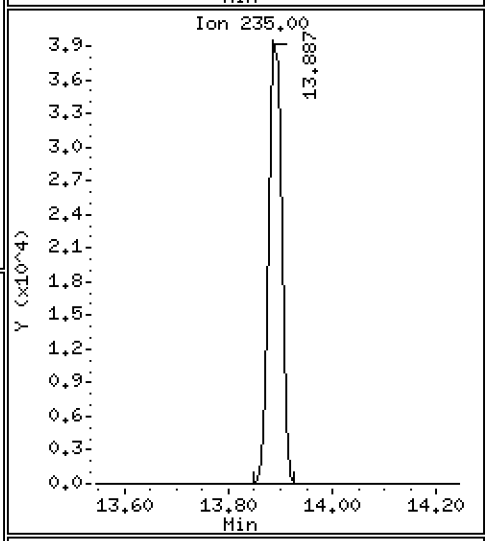


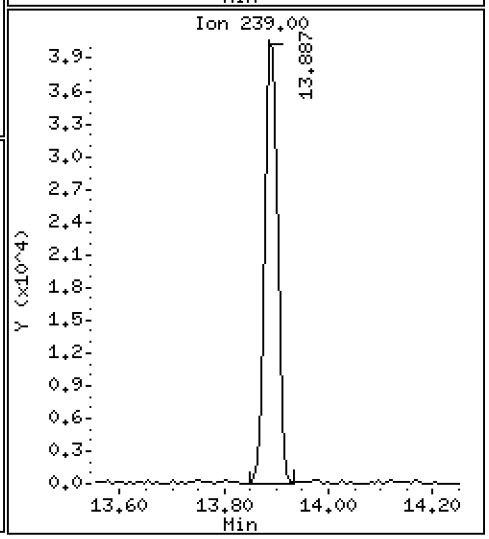












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

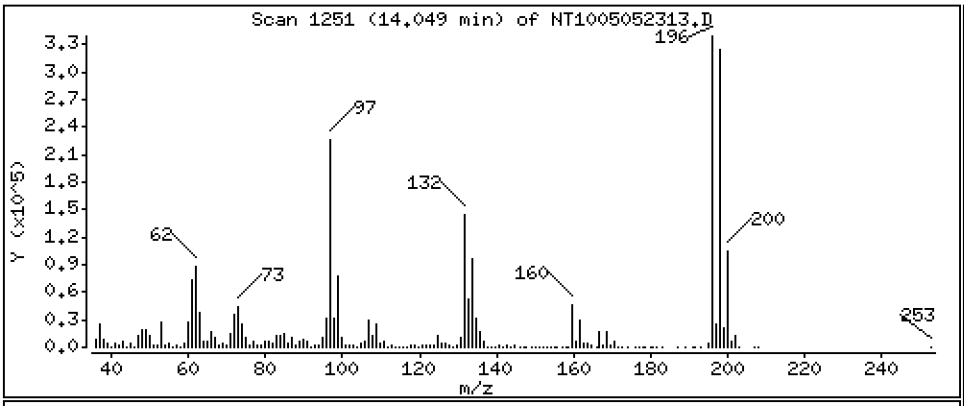
Operator: VTS

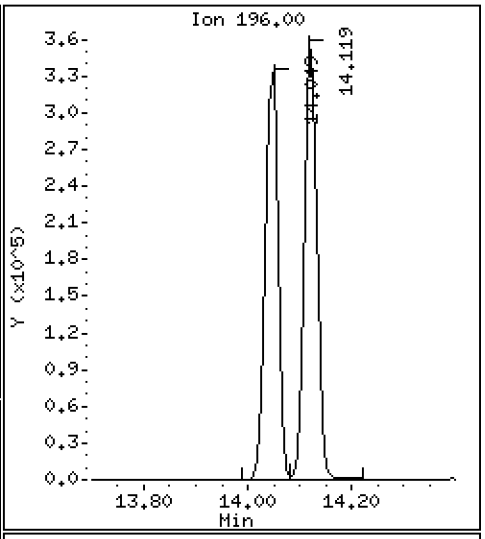
Column phase: ZB-5msi

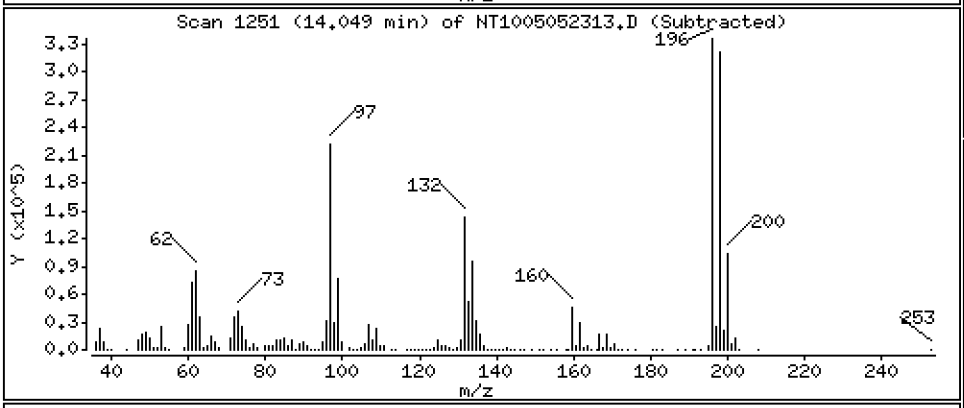
Column diameter: 0.25

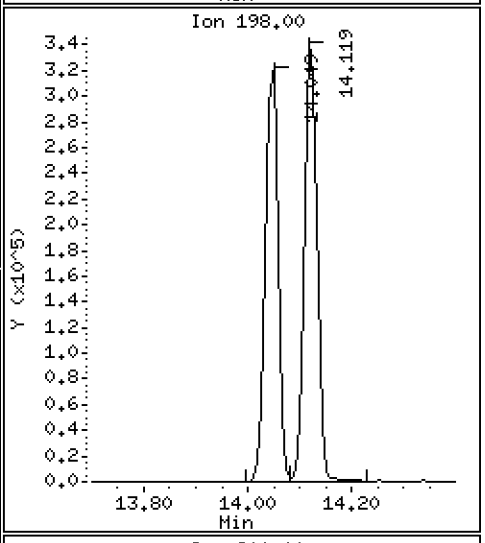
34 2,4,6-Trichlorophenol

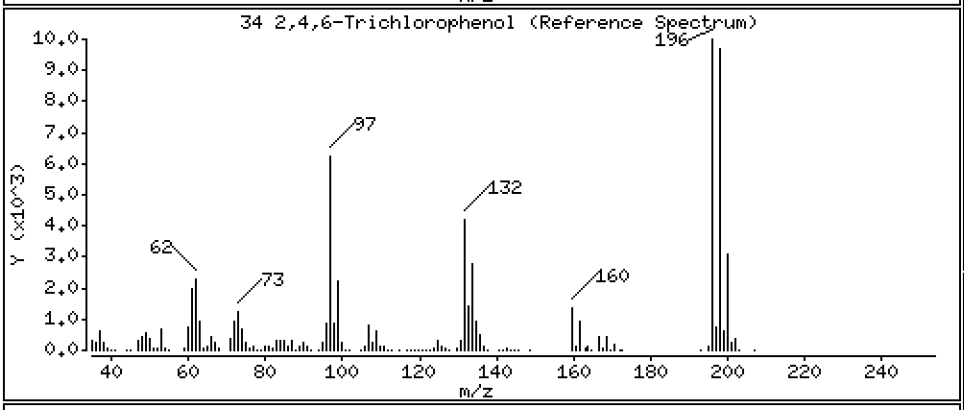
Concentration: 11.34 ug/mL

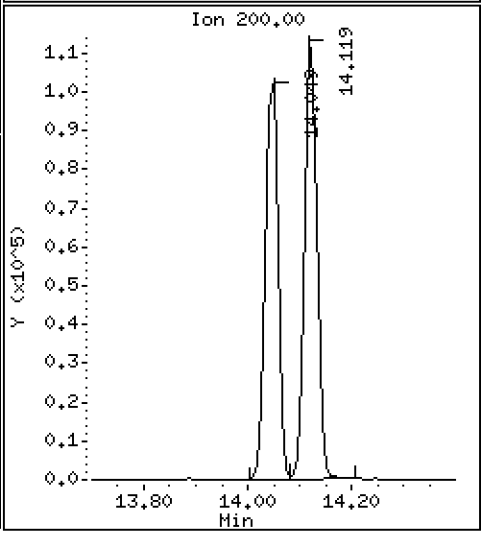


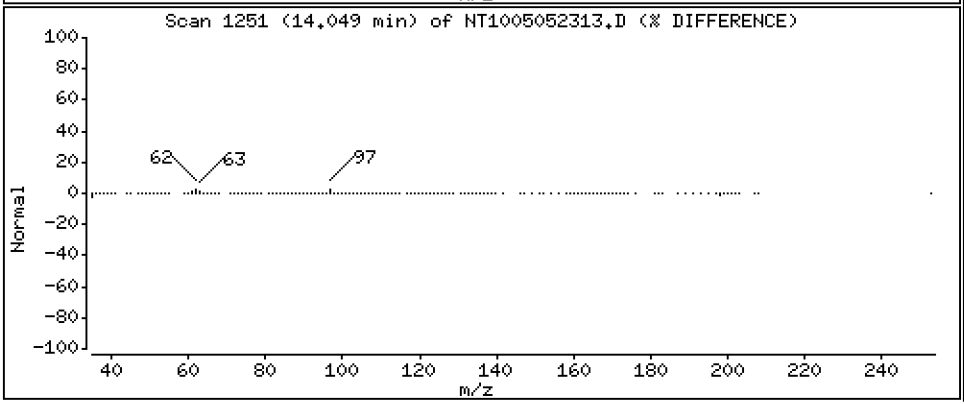












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

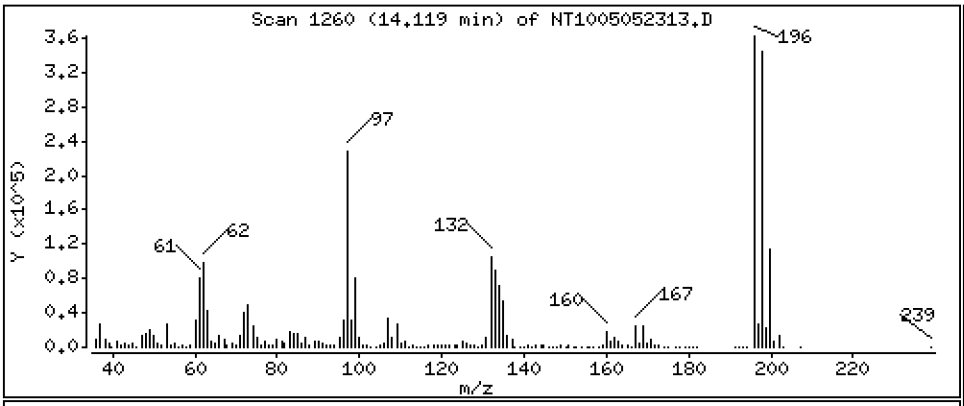
Operator: VTS

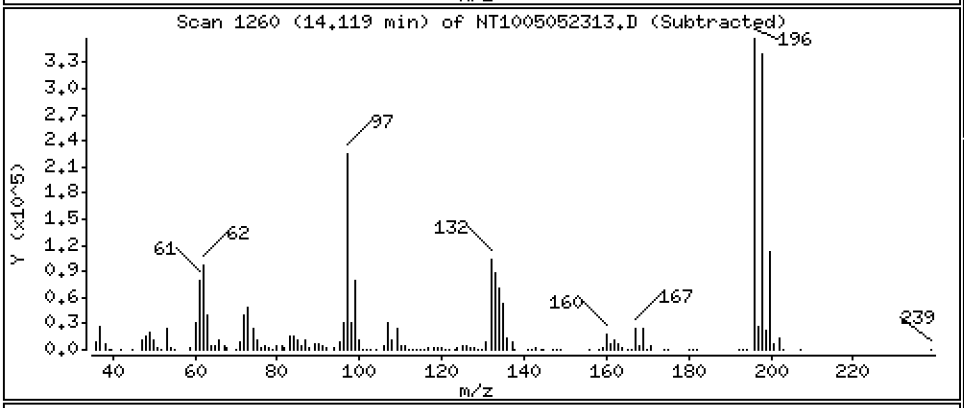
Column phase: ZB-5msi

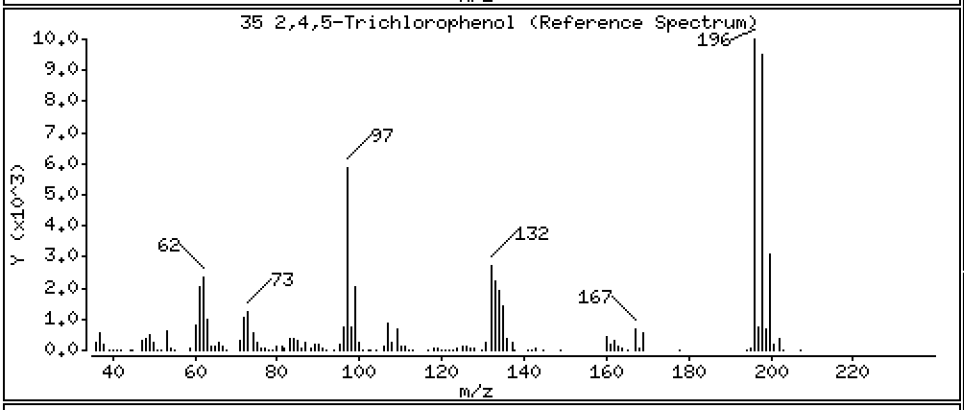
Column diameter: 0.25

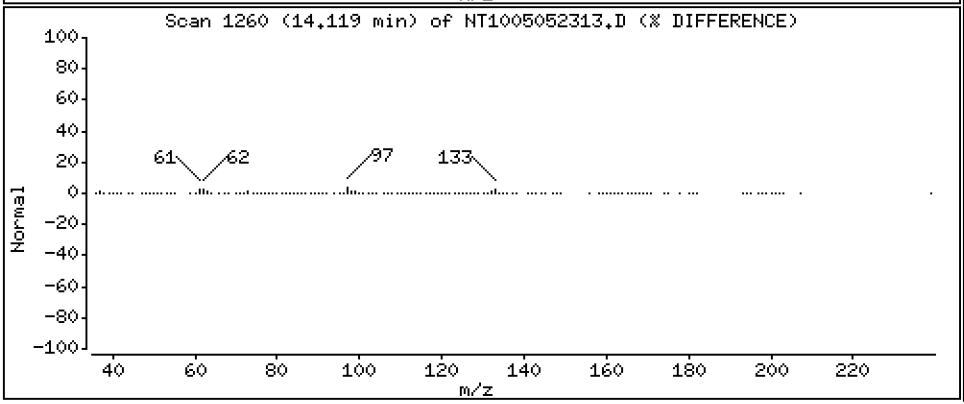
35 2,4,5-Trichlorophenol

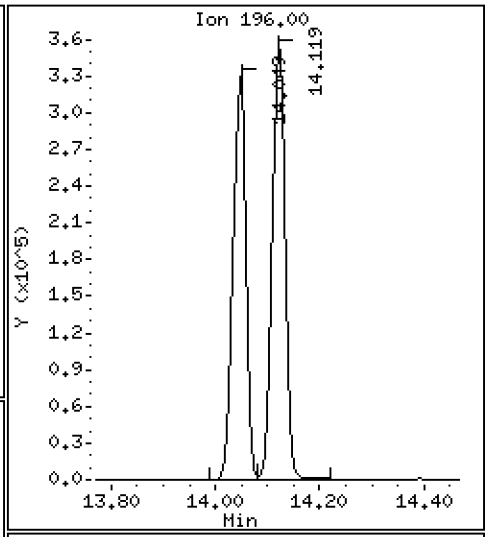
Concentration: 11.11 ug/mL

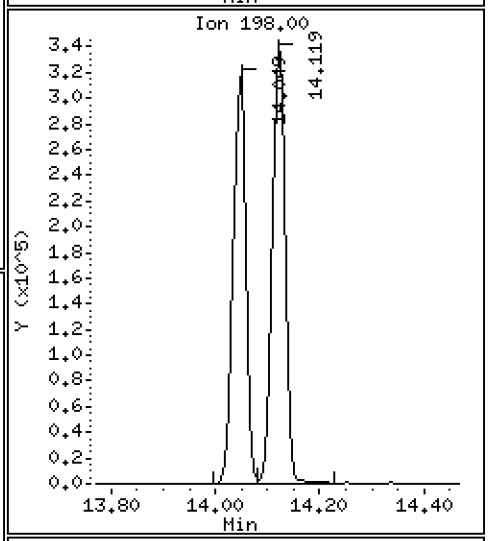


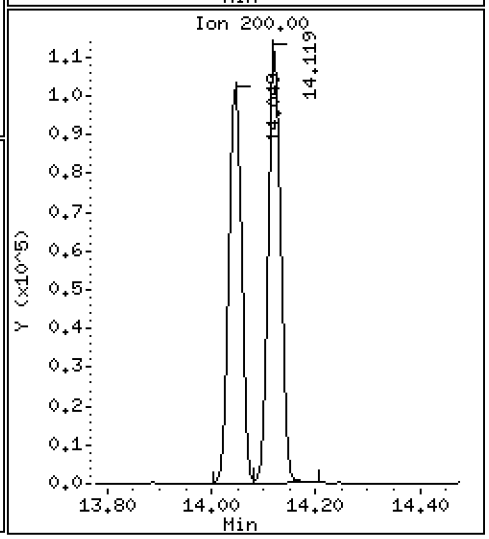












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

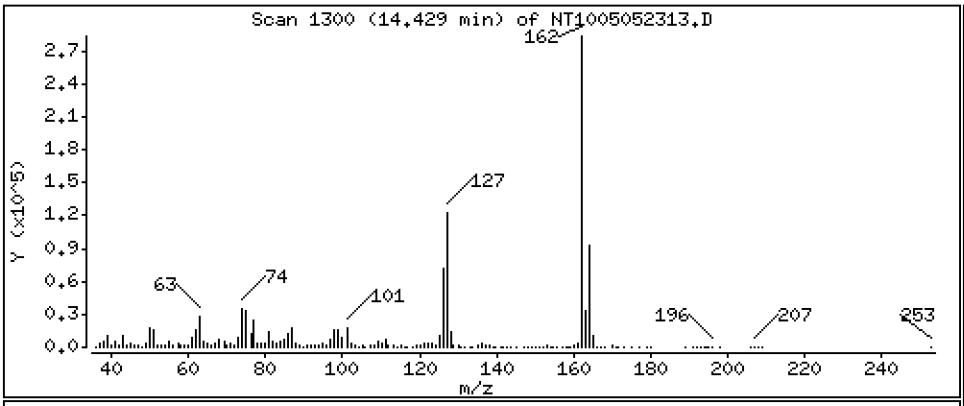
Operator: VTS

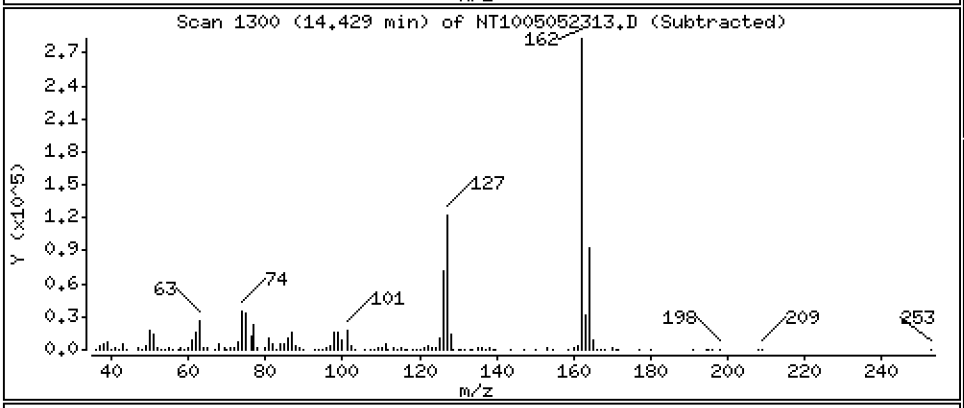
Column phase: ZB-5msi

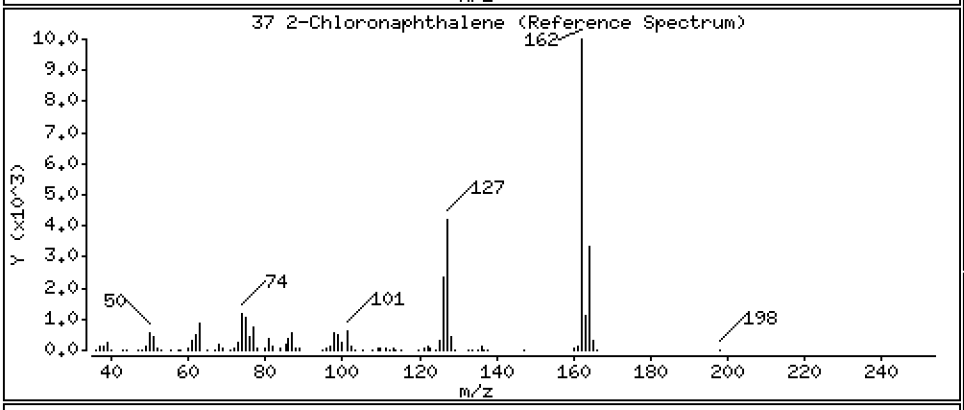
Column diameter: 0.25

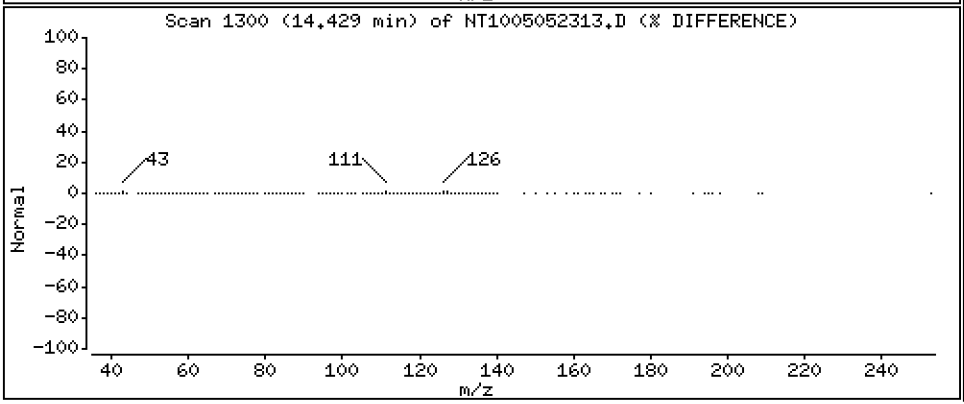
37 2-Chloronaphthalene

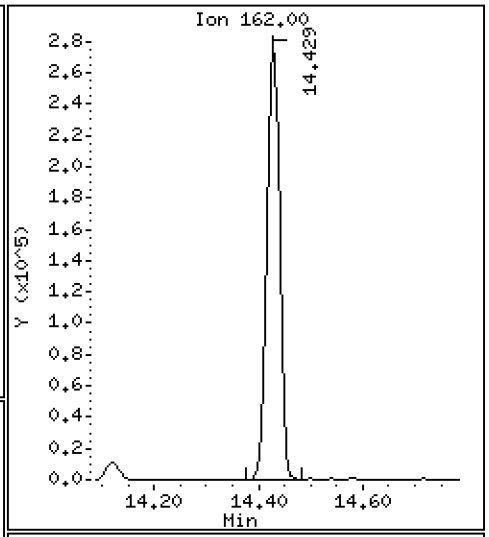
Concentration: 3.372 ug/mL

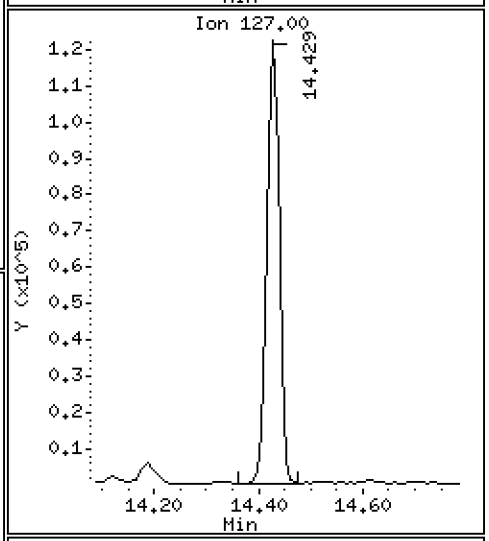


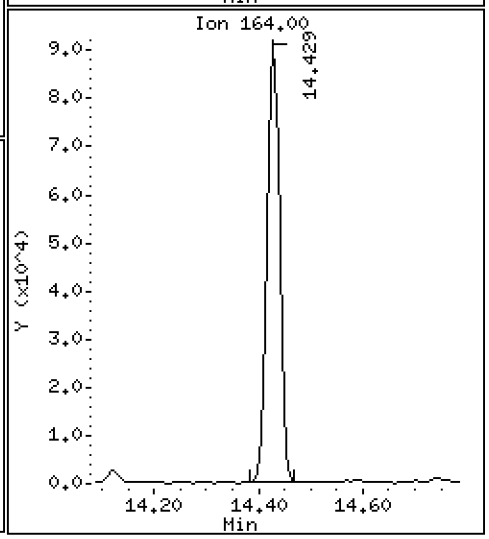












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

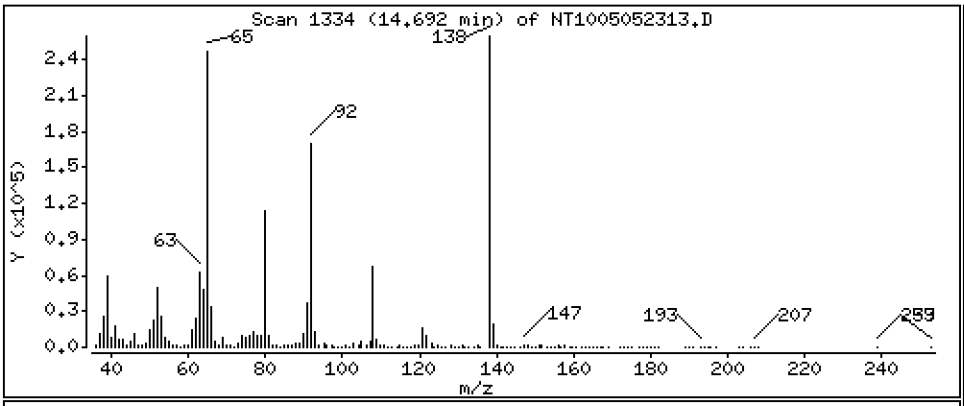
Operator: VTS

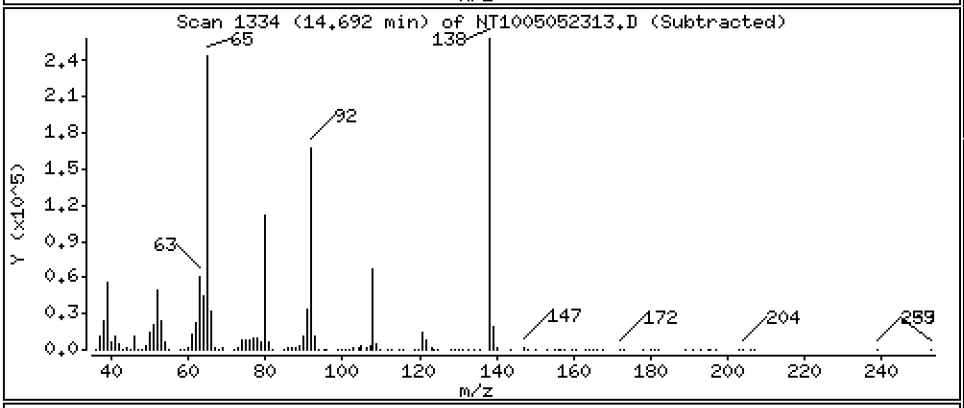
Column phase: ZB-5msi

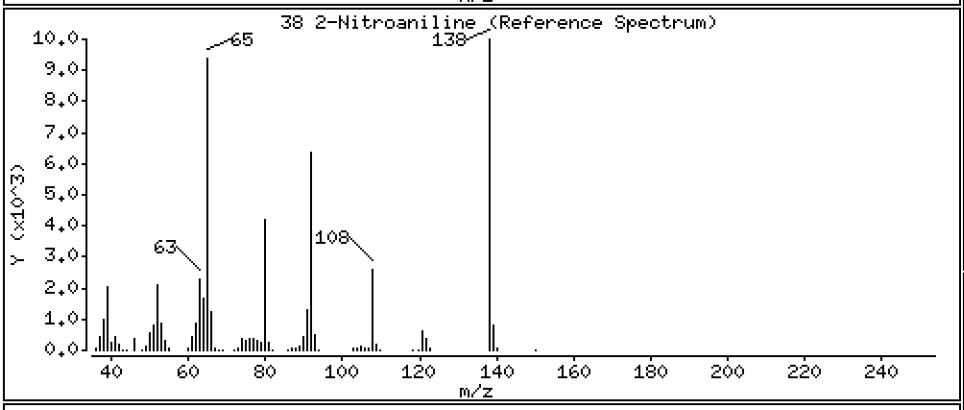
Column diameter: 0.25

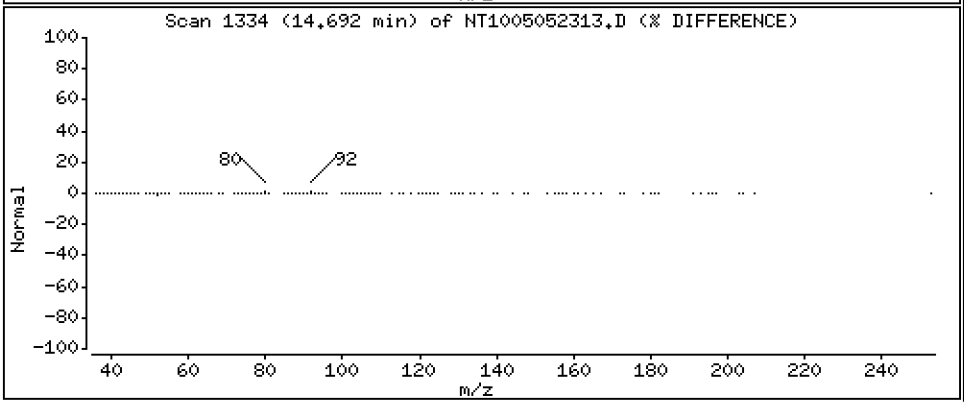
38 2-Nitroaniline

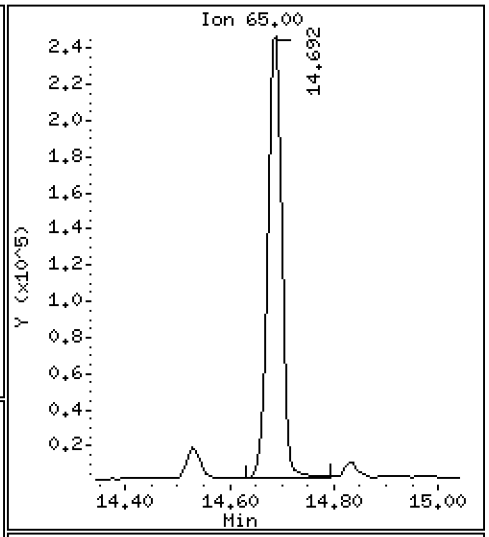
Concentration: 11.48 ug/mL

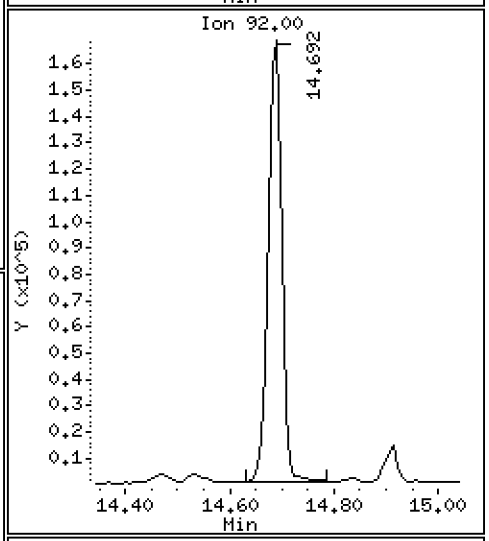


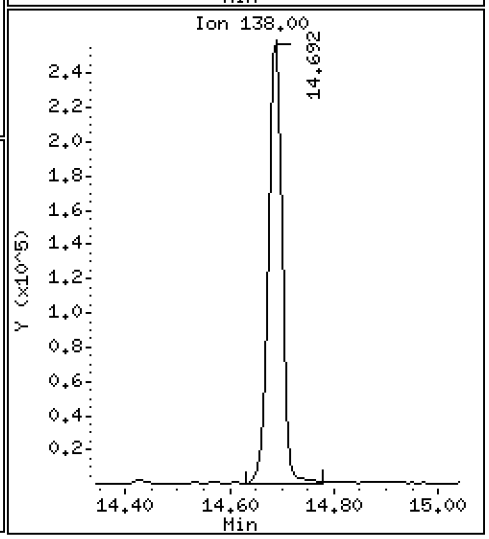












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

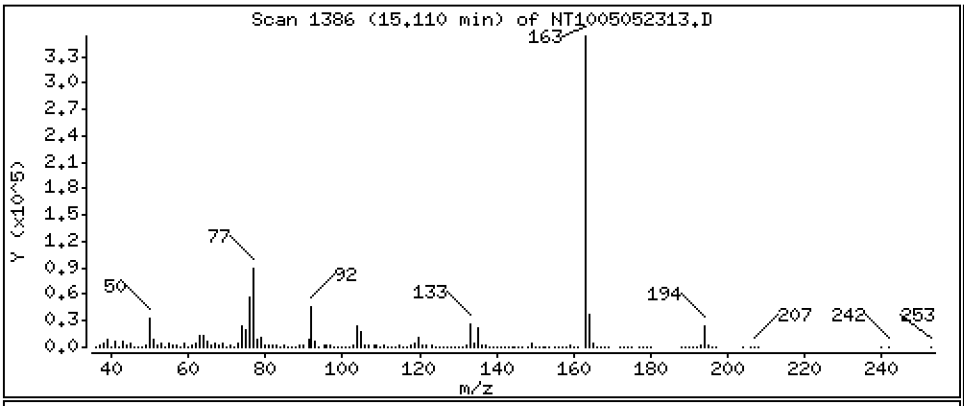
Operator: VTS

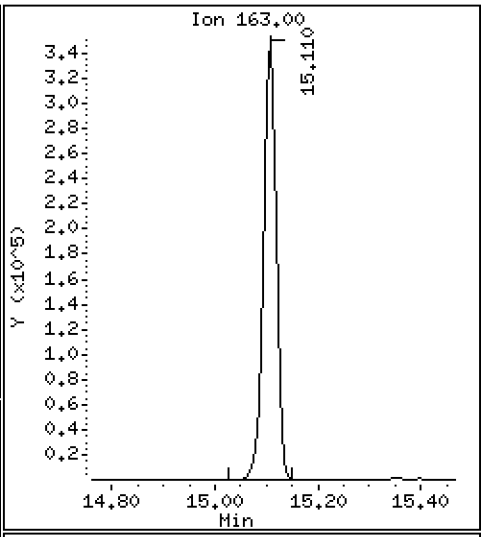
Column phase: ZB-5msi

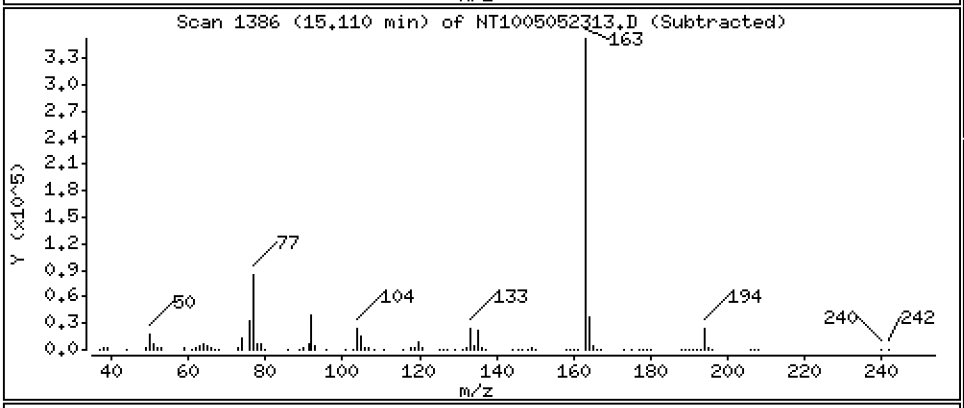
Column diameter: 0.25

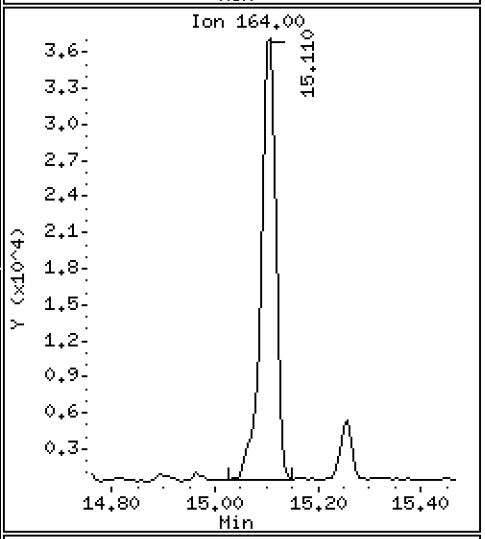
39 Dimethylphthalate

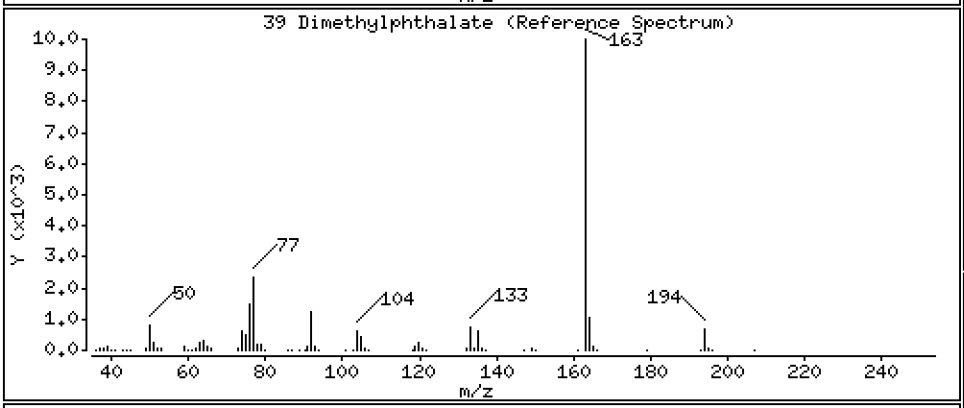
Concentration: 3.764 ug/mL

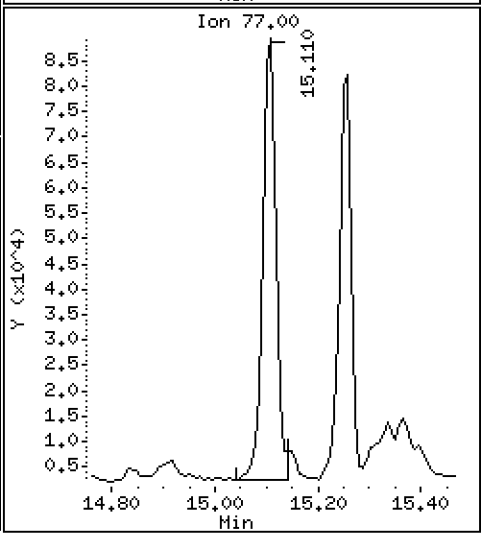


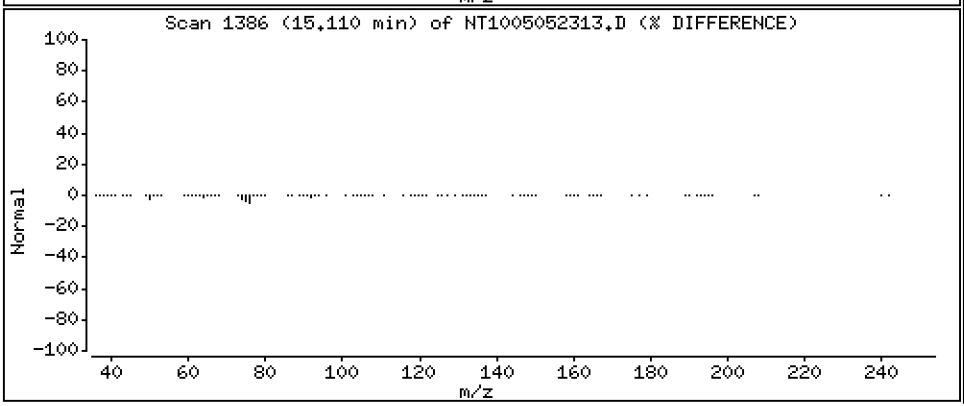












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

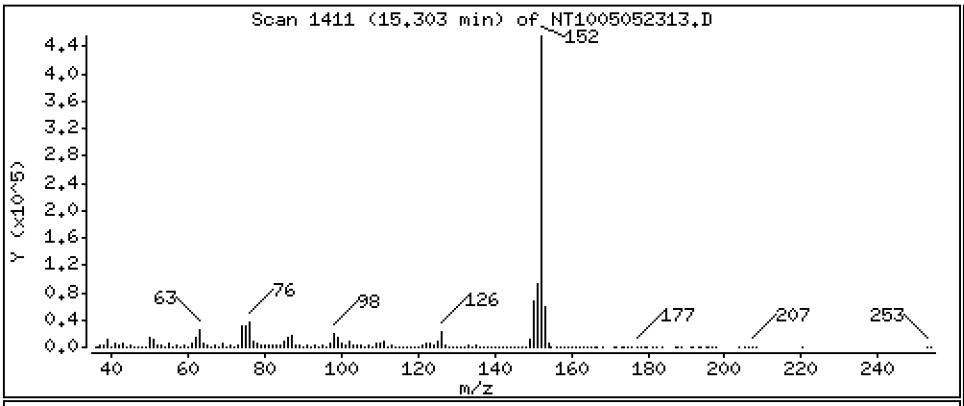
Operator: VTS

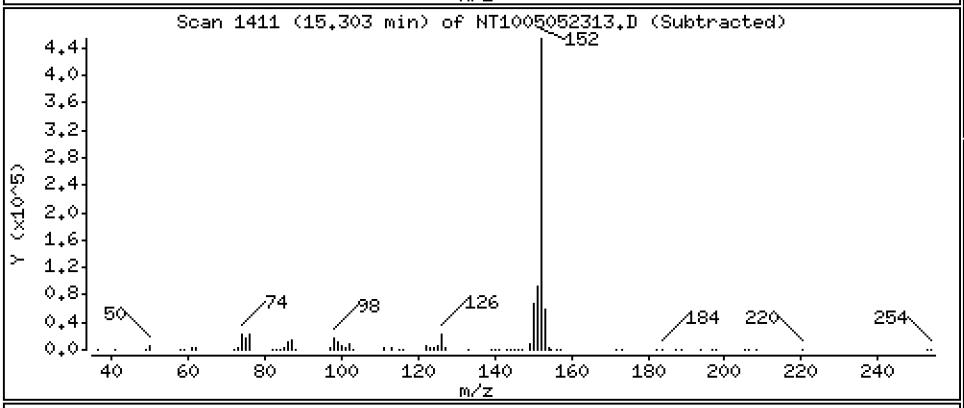
Column phase: ZB-5msi

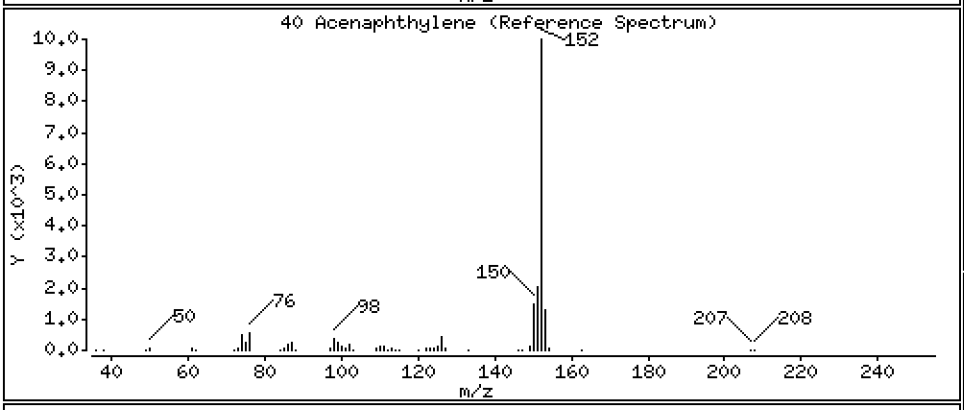
Column diameter: 0.25

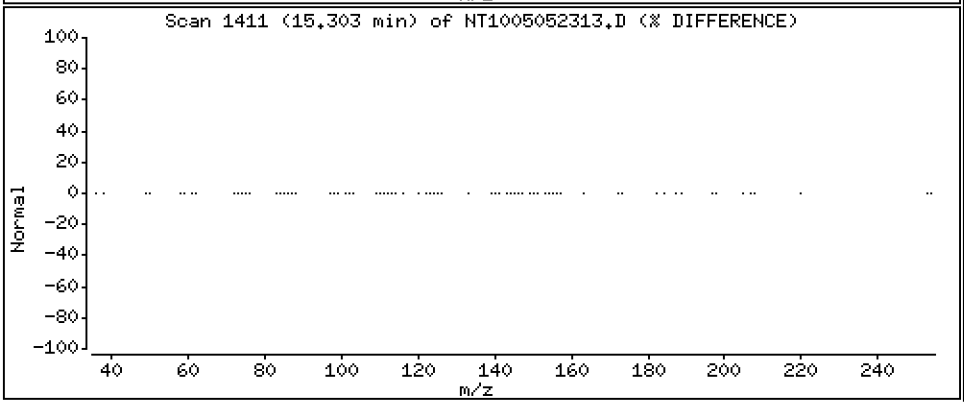
40 Acenaphthylene

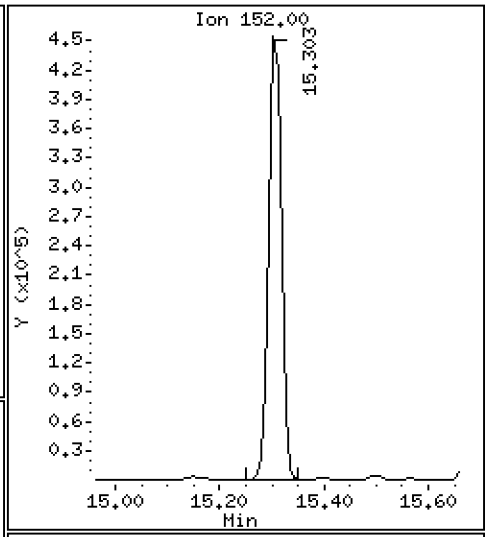
Concentration: 3.528 ug/mL

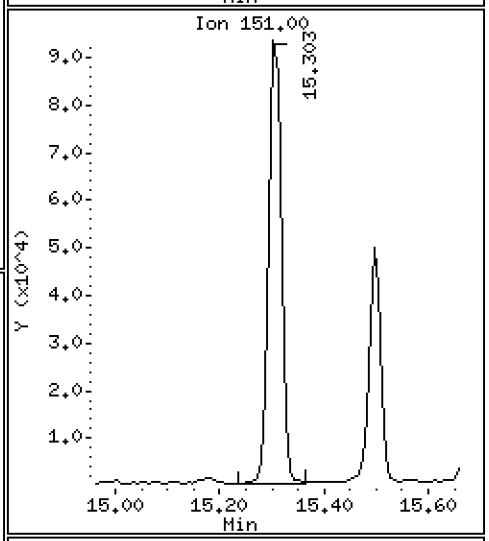


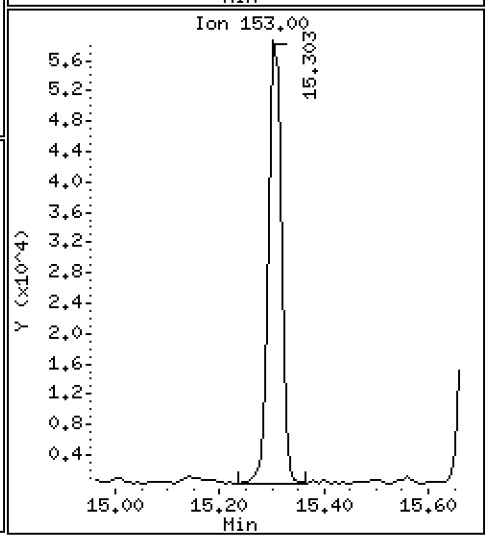












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

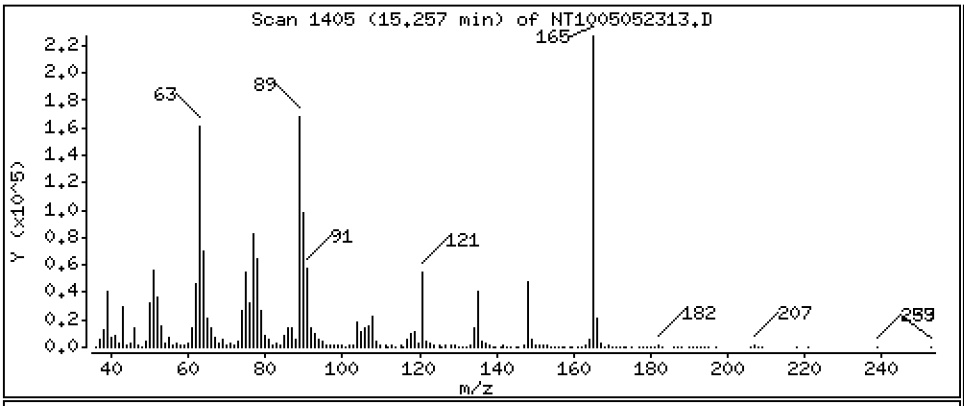
Operator: VTS

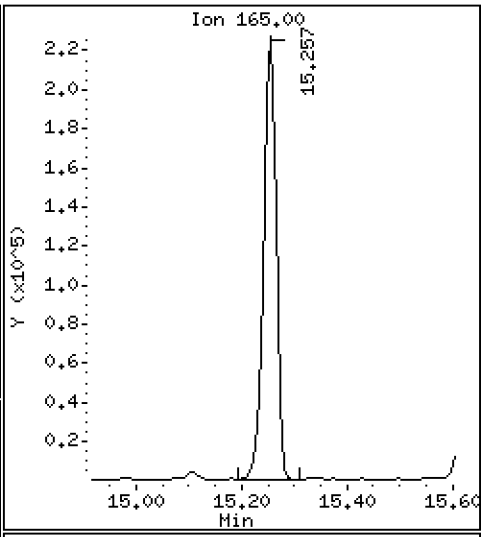
Column phase: ZB-5msi

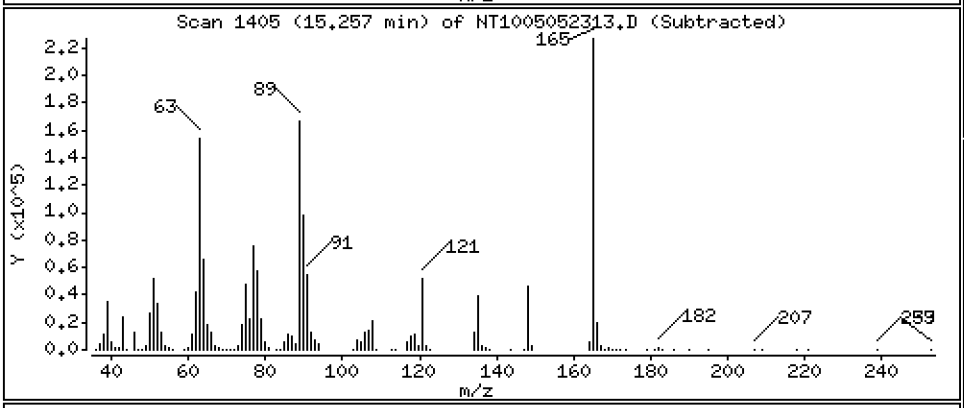
Column diameter: 0.25

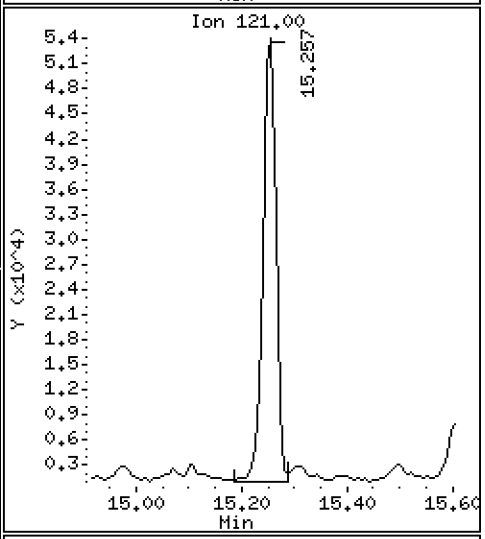
41 2,6-Dinitrotoluene

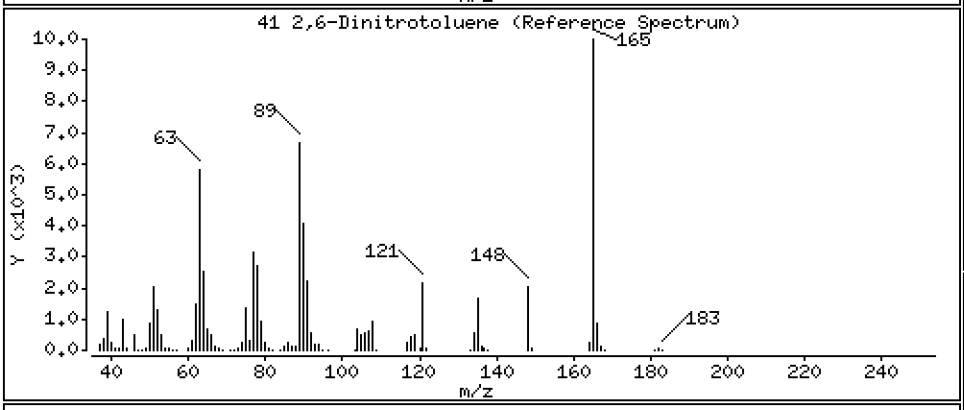
Concentration: 10.64 ug/mL

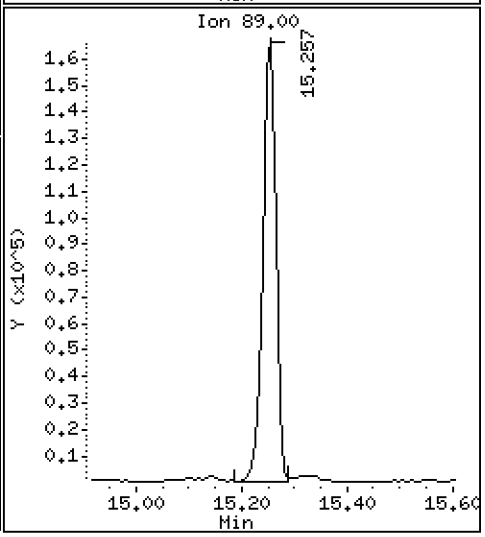


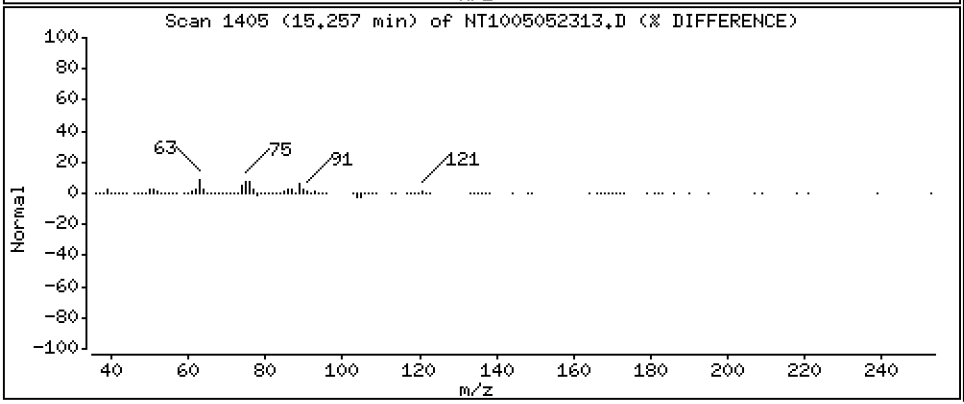












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

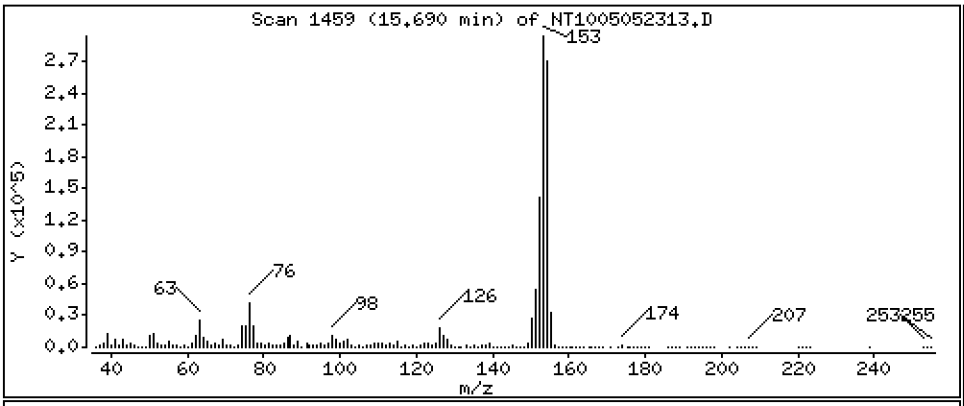
Operator: VTS

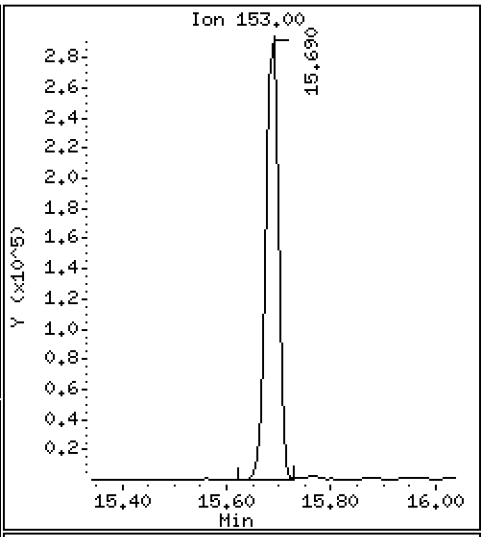
Column phase: ZB-5msi

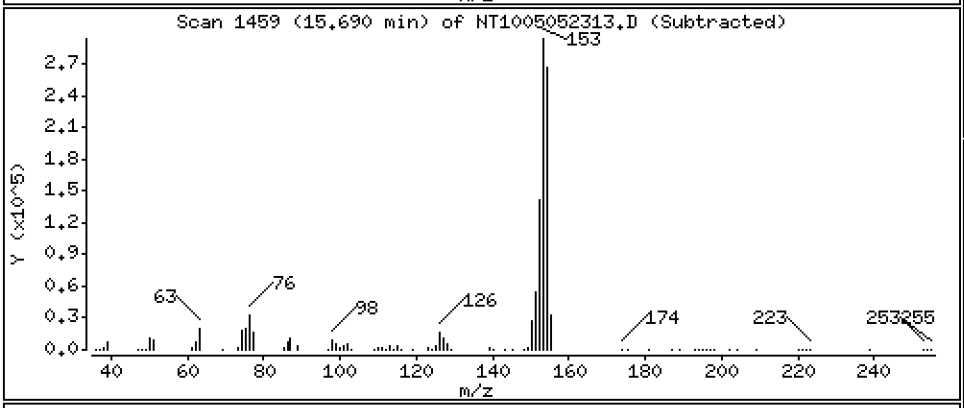
Column diameter: 0.25

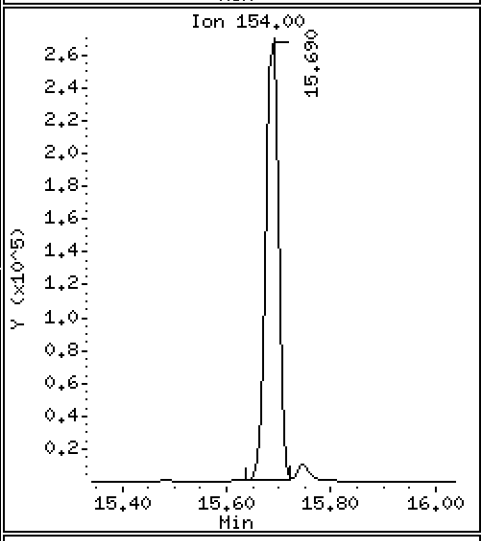
44 Acenaphthene

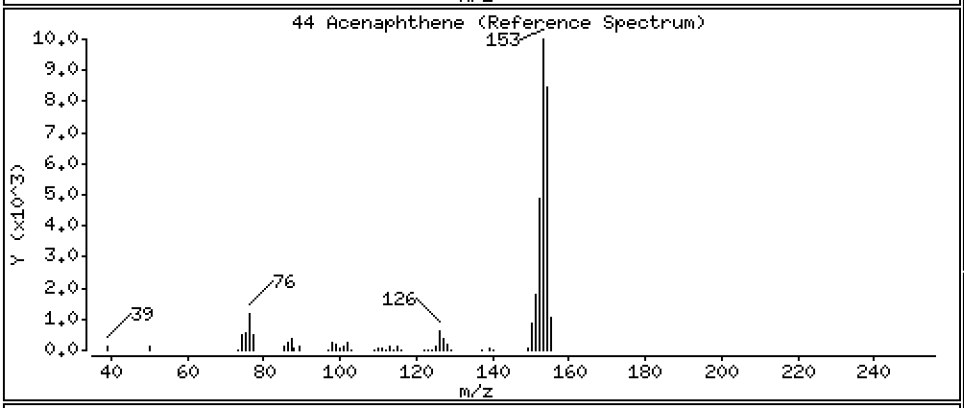
Concentration: 3.558 ug/mL

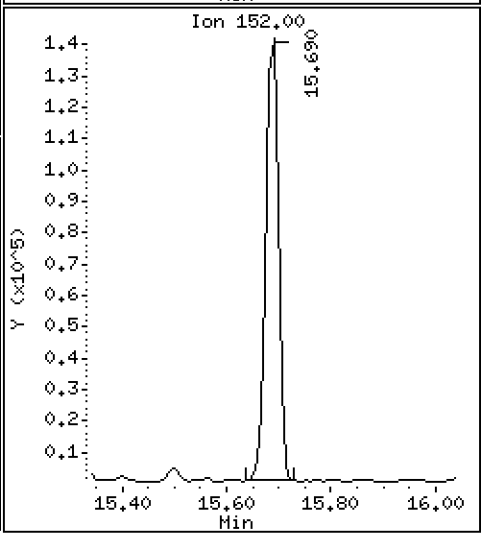


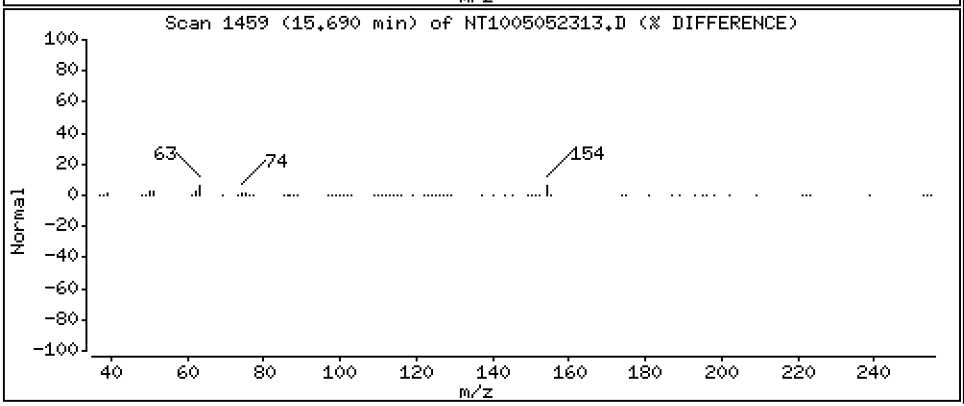












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

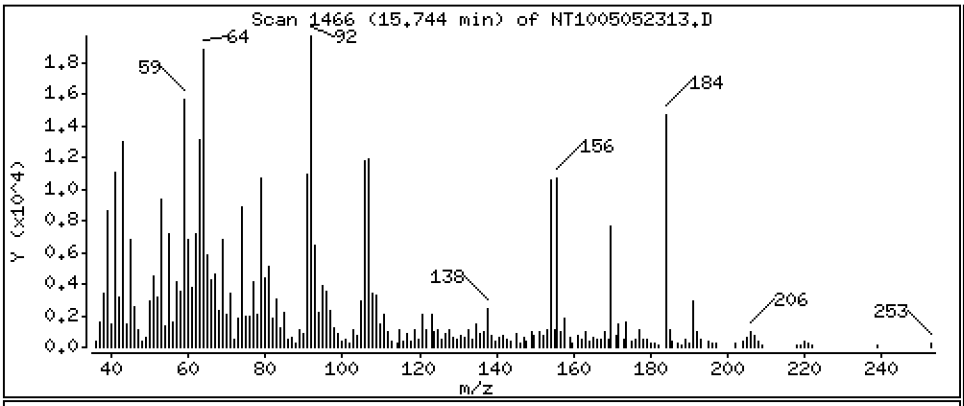
Operator: VTS

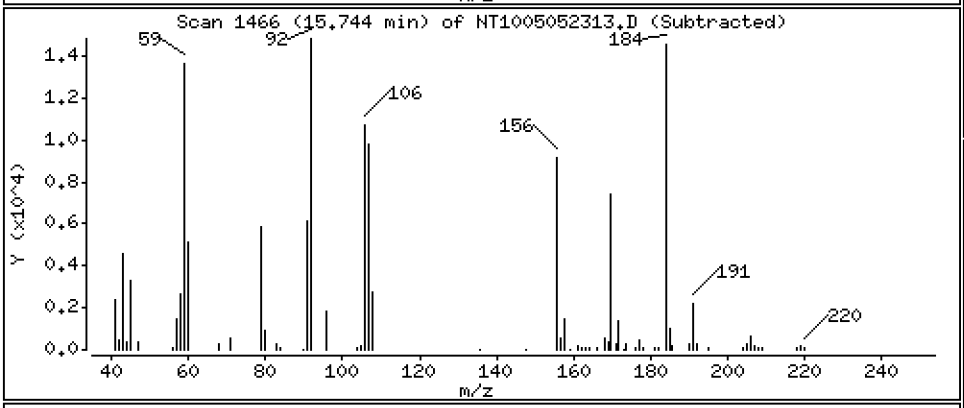
Column phase: ZB-5msi

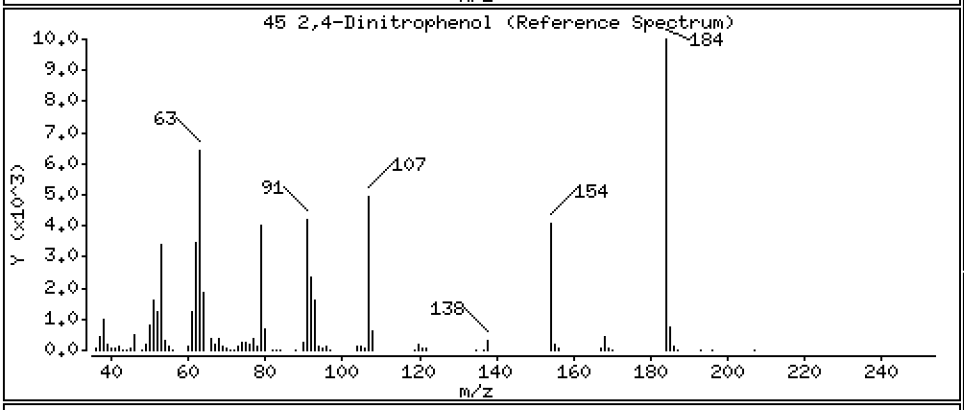
Column diameter: 0.25

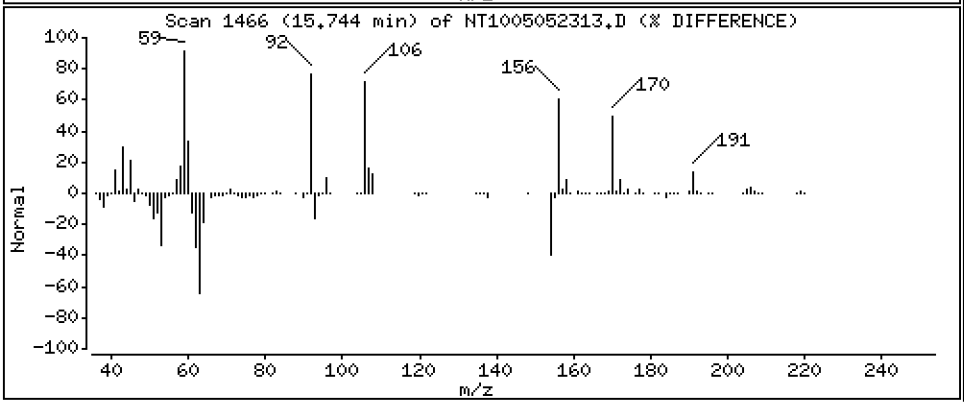
45 2,4-Dinitrophenol

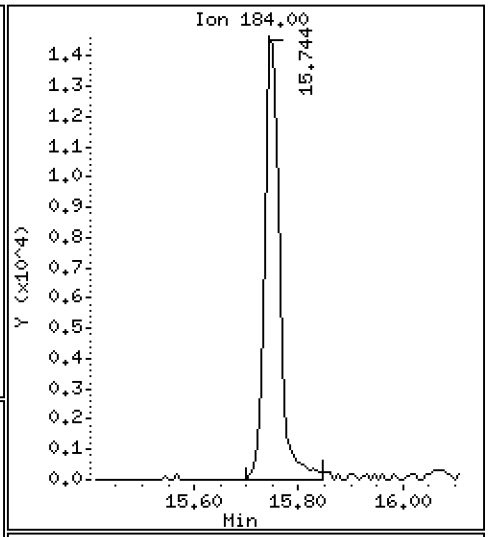
Concentration: 1.099 ug/mL

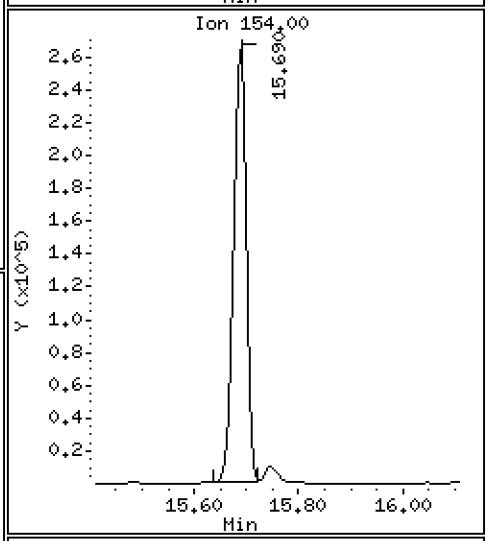


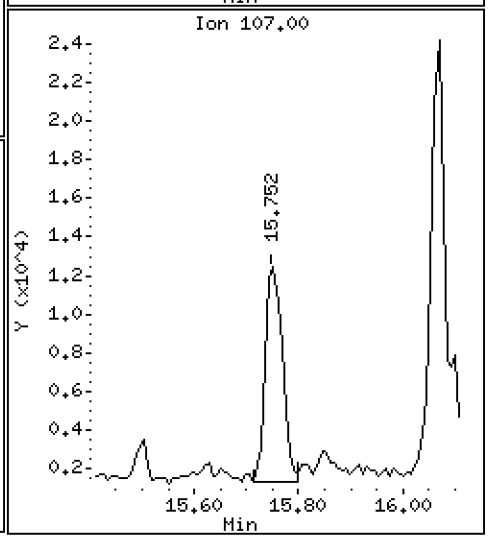












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

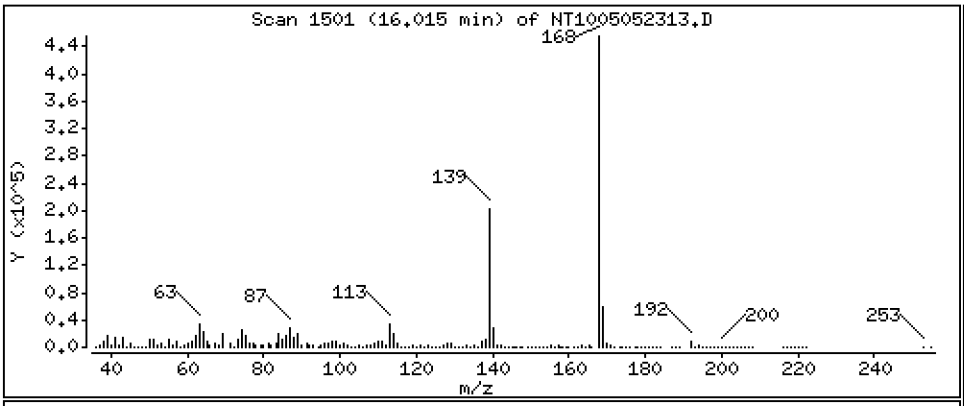
Operator: VTS

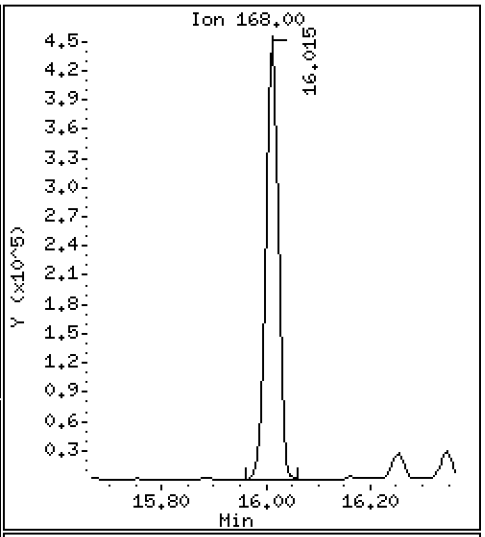
Column phase: ZB-5msi

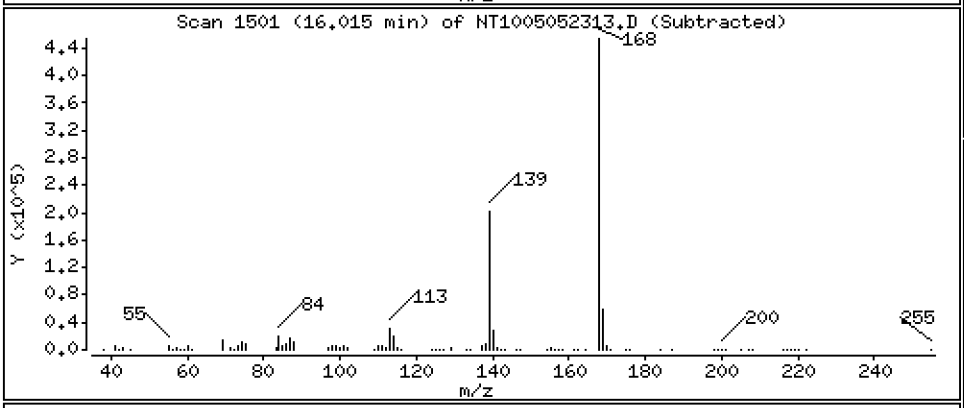
Column diameter: 0.25

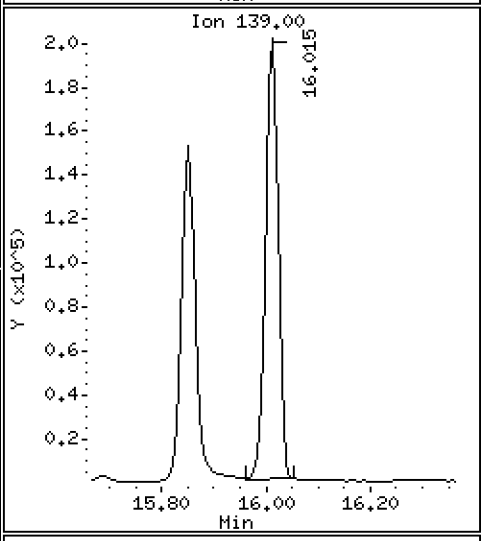
46 Dibenzofuran

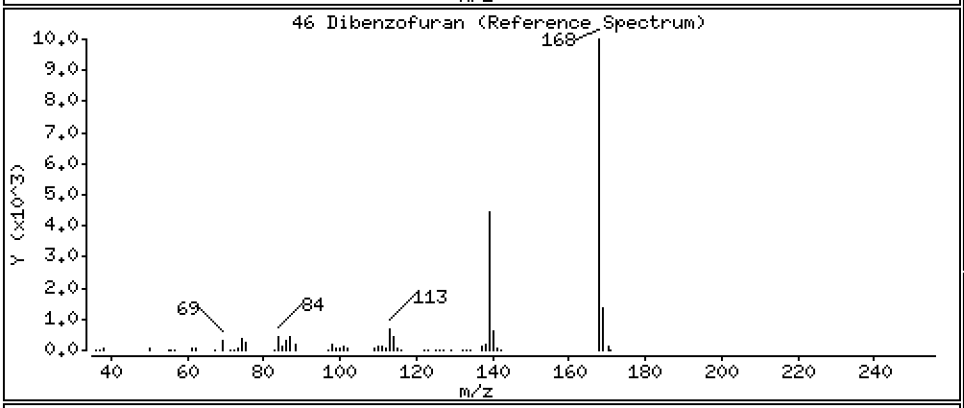
Concentration: 3.681 ug/mL

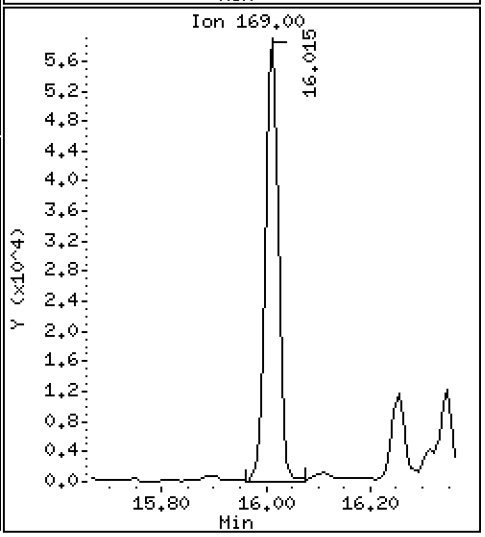


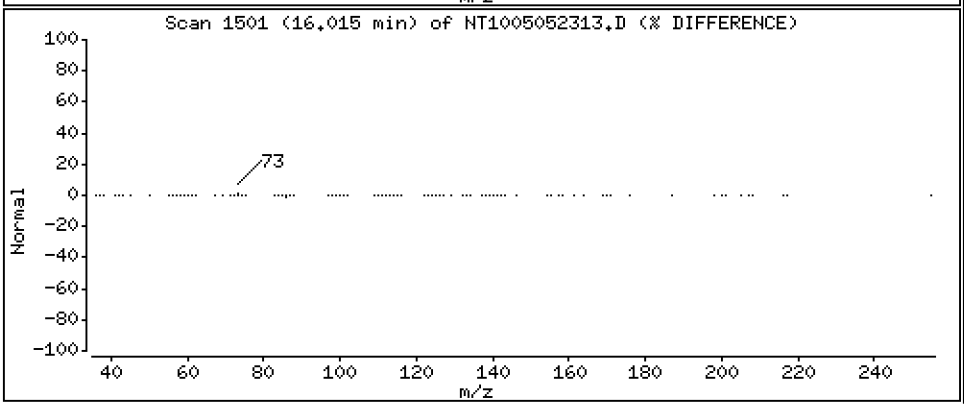












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

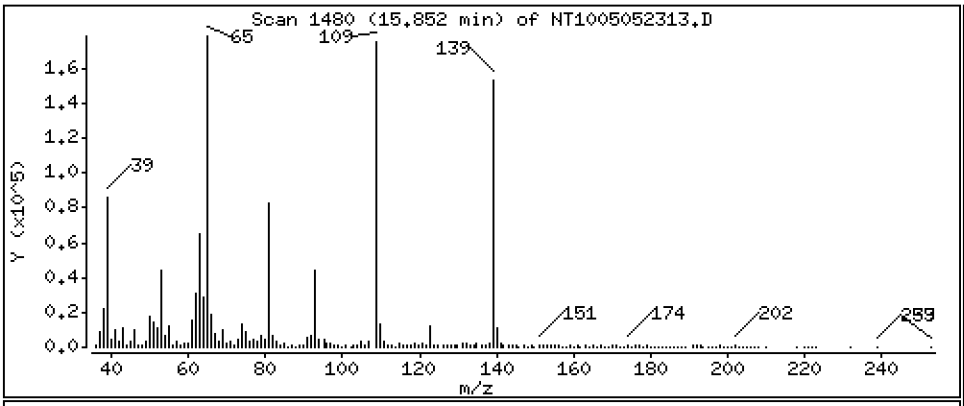
Operator: VTS

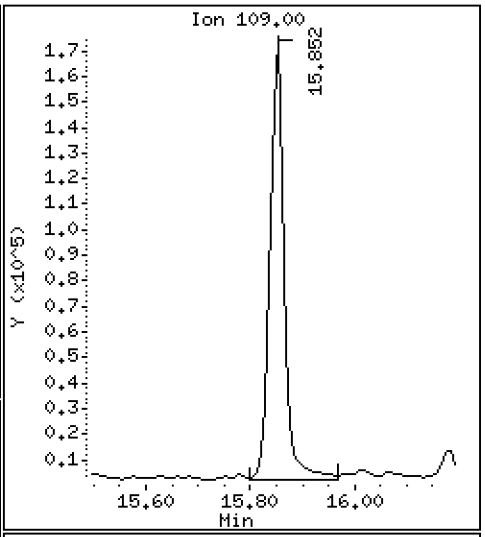
Column phase: ZB-5msi

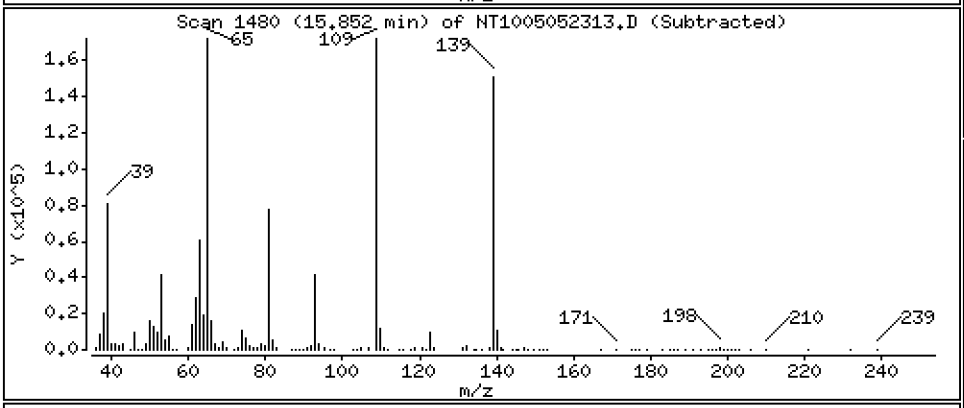
Column diameter: 0.25

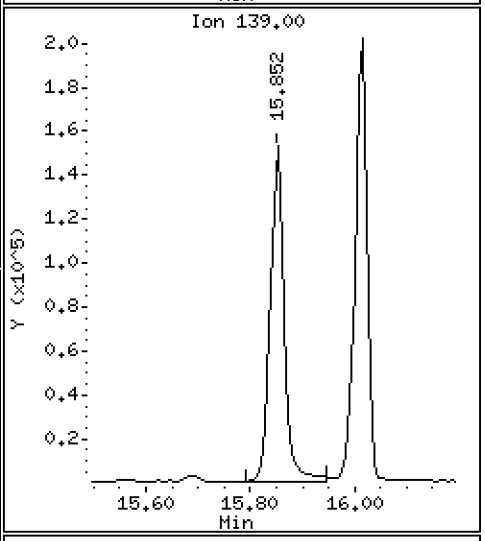
47 4-Nitrophenol

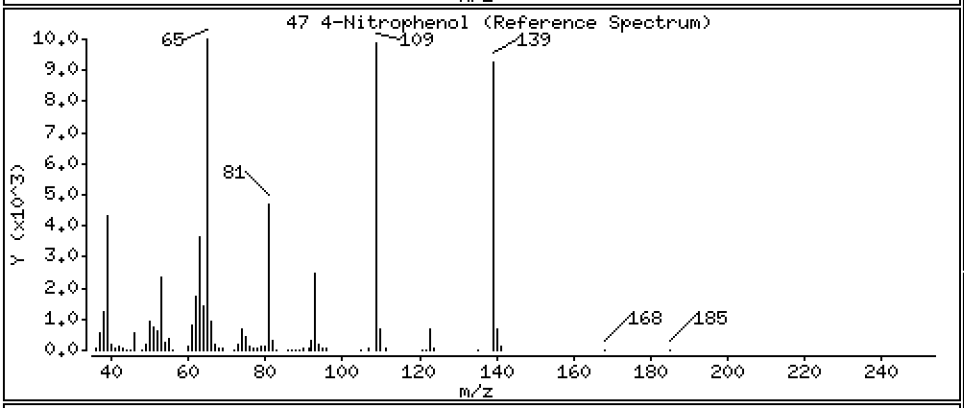
Concentration: 9.999 ug/mL

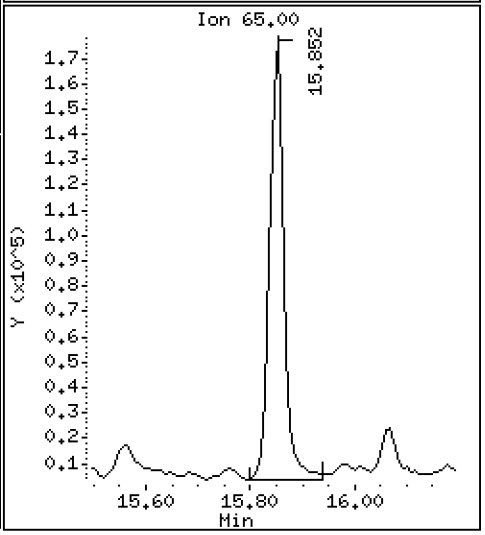


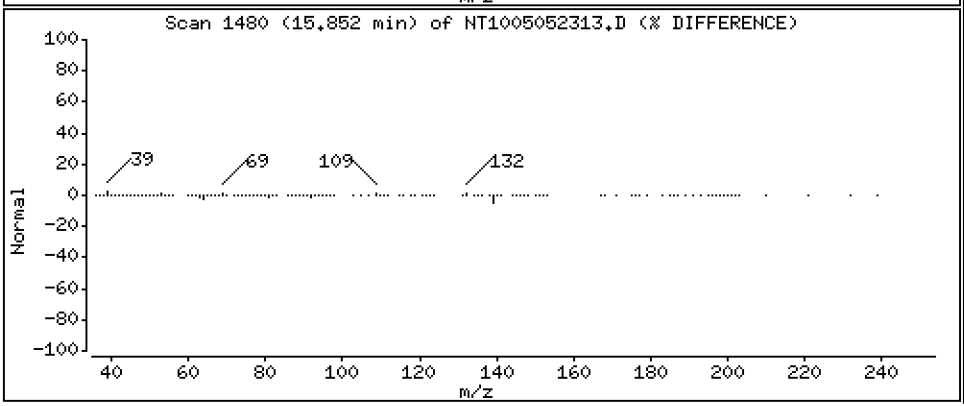












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

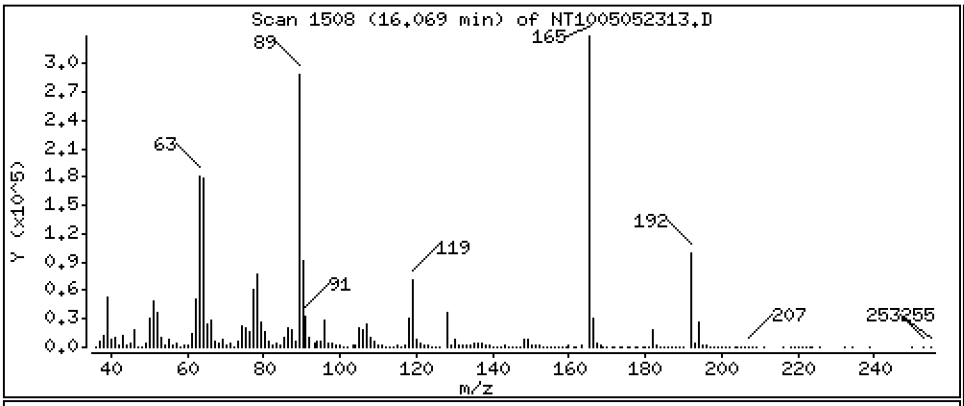
Operator: VTS

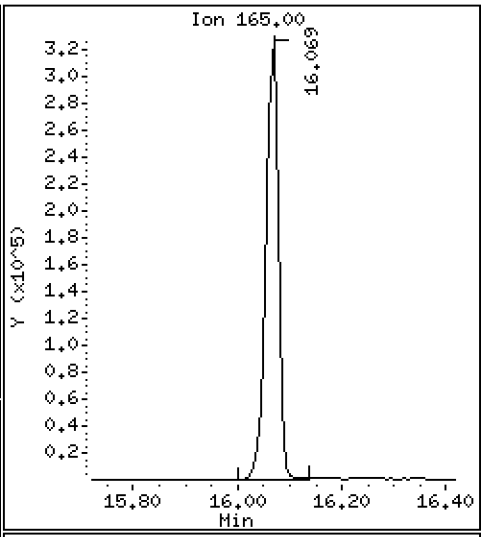
Column phase: ZB-5msi

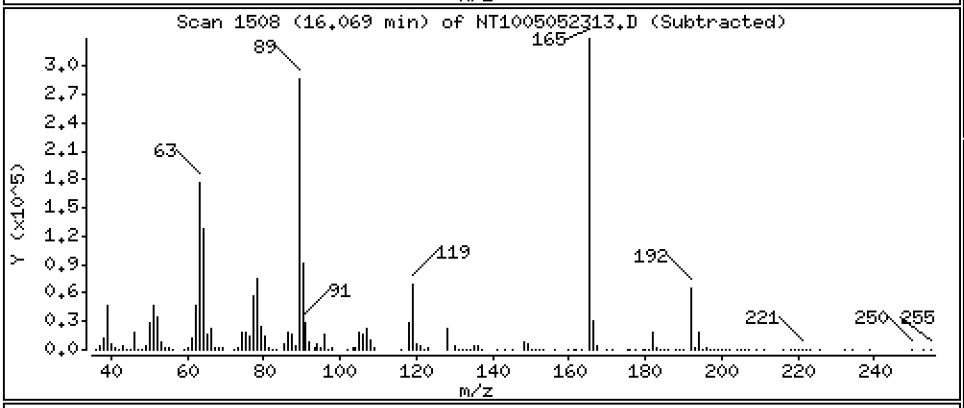
Column diameter: 0.25

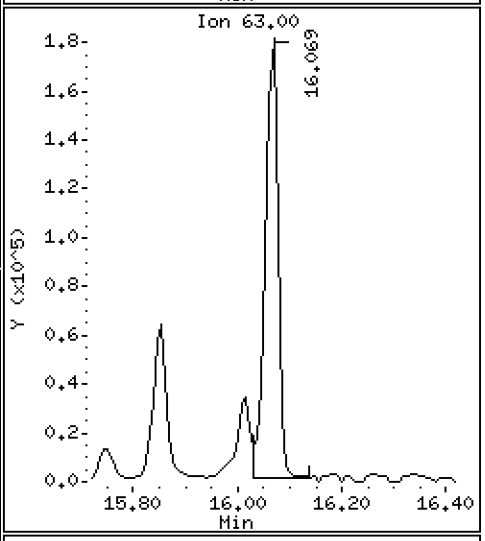
48 2,4-Dinitrotoluene

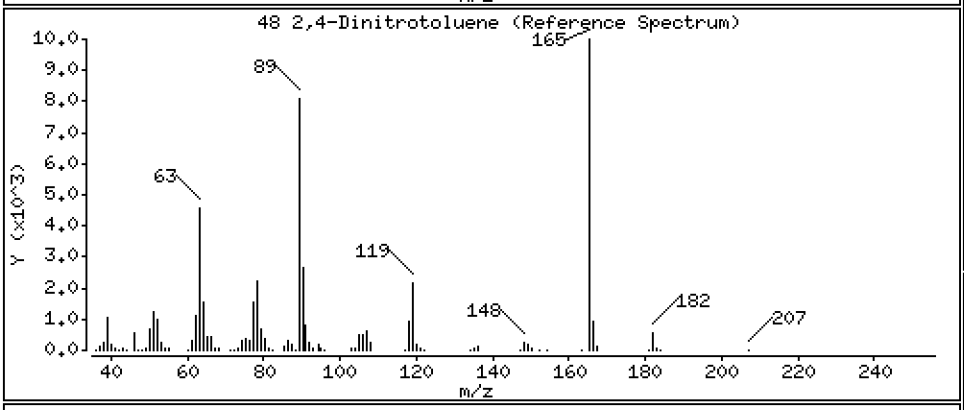
Concentration: 10.48 ug/mL

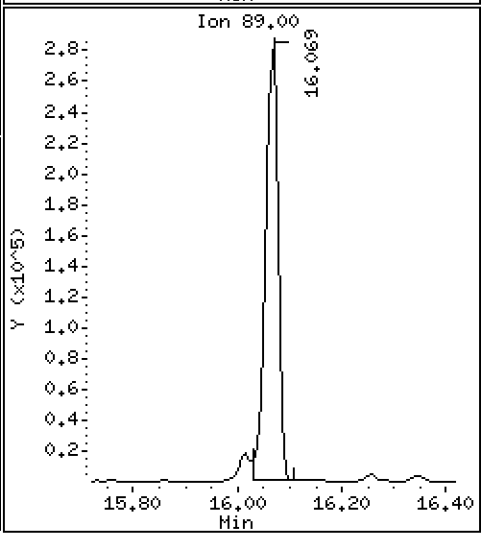


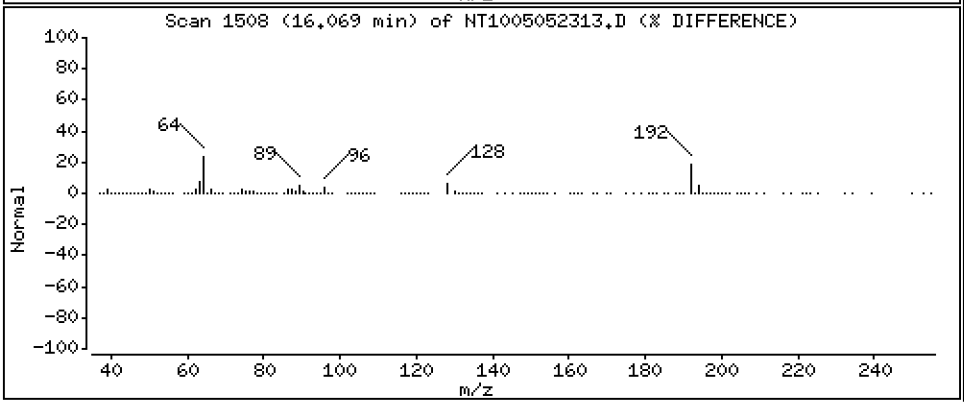












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

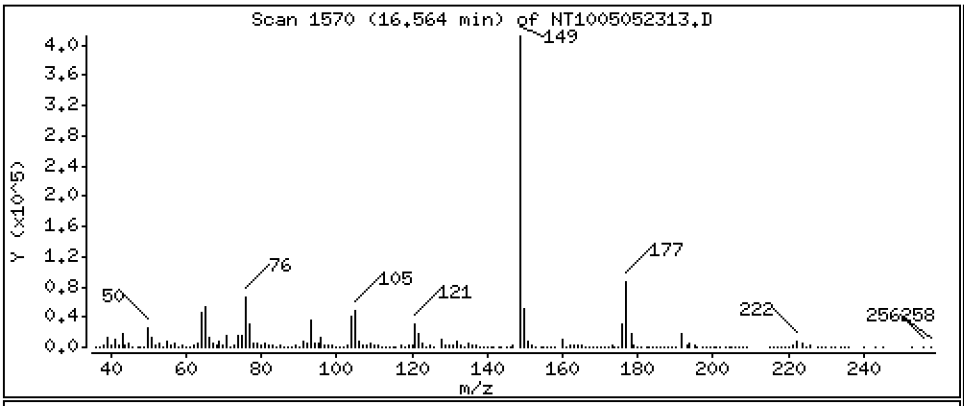
Operator: VTS

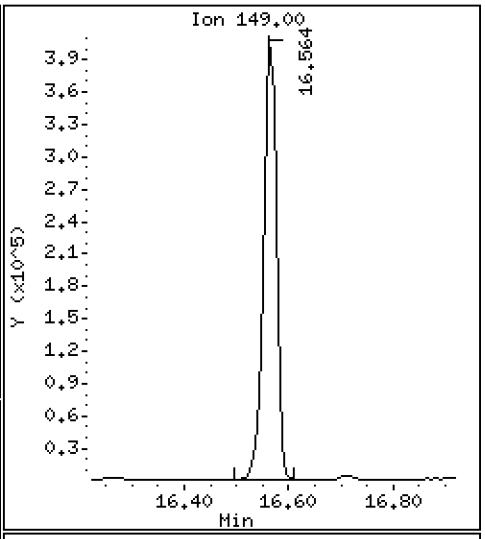
Column phase: ZB-5msi

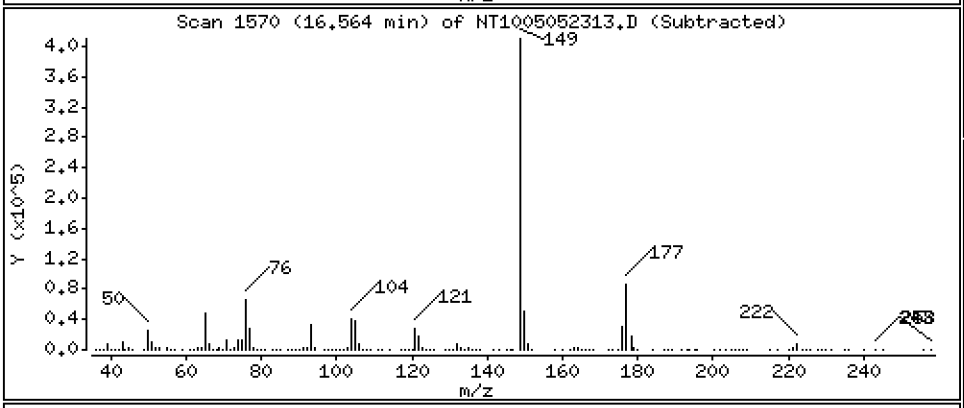
Column diameter: 0.25

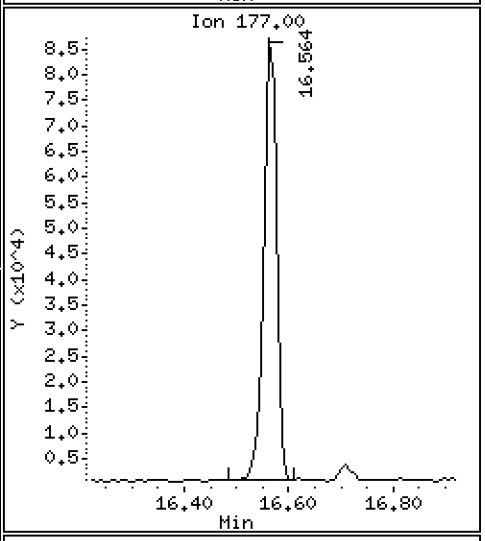
50 Diethylphthalate

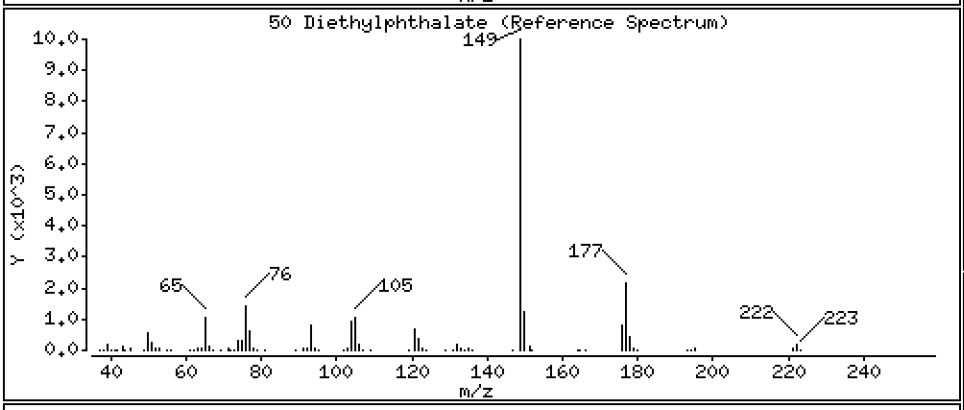
Concentration: 4.900 ug/mL

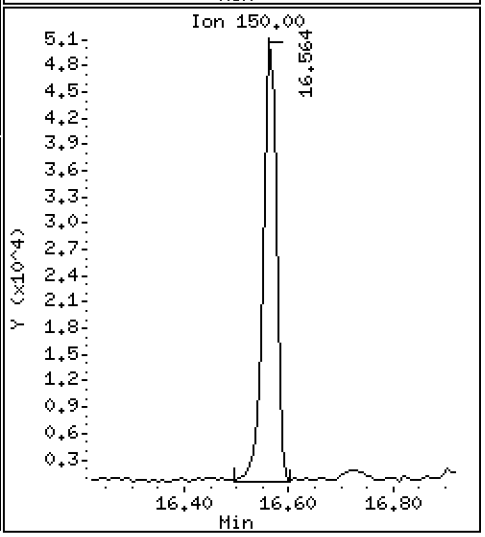


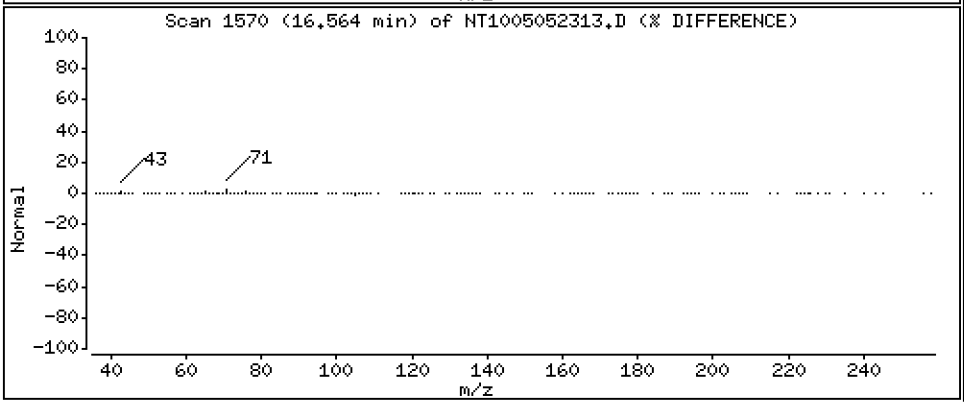












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

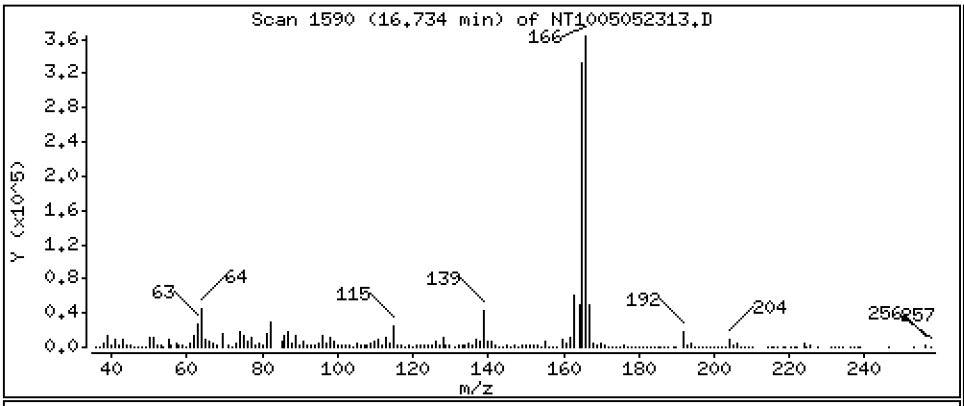
Operator: VTS

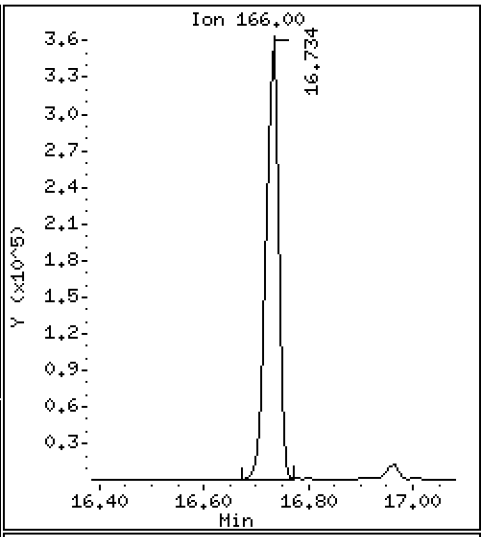
Column phase: ZB-5msi

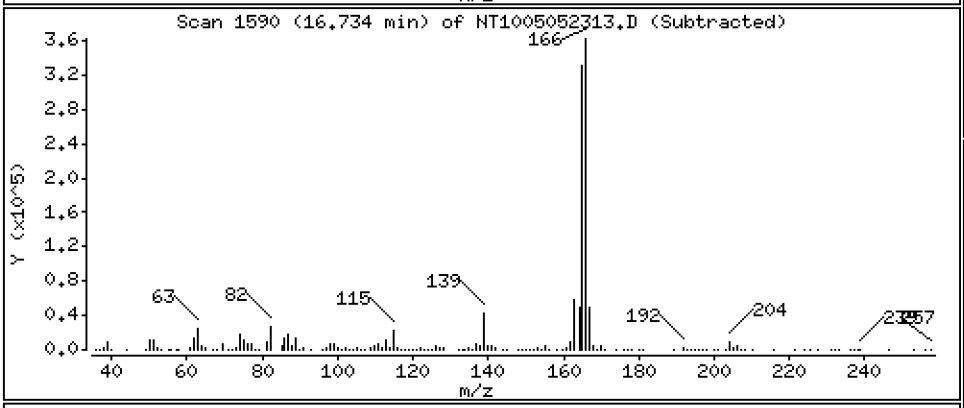
Column diameter: 0.25

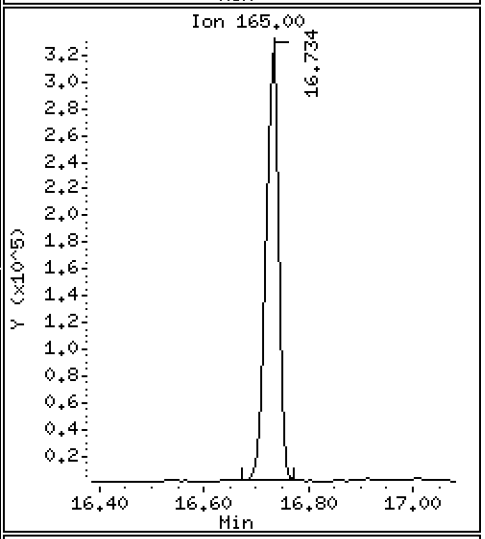
49 Fluorene

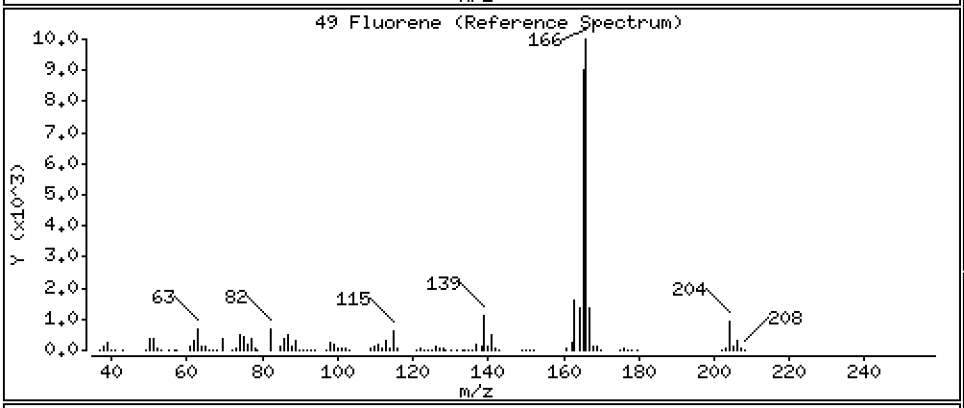
Concentration: 3.667 ug/mL

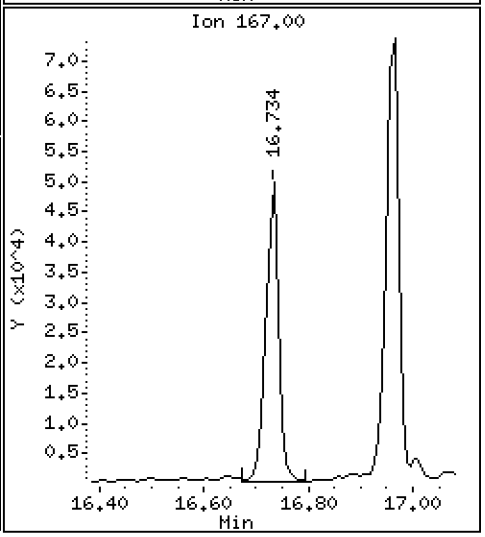


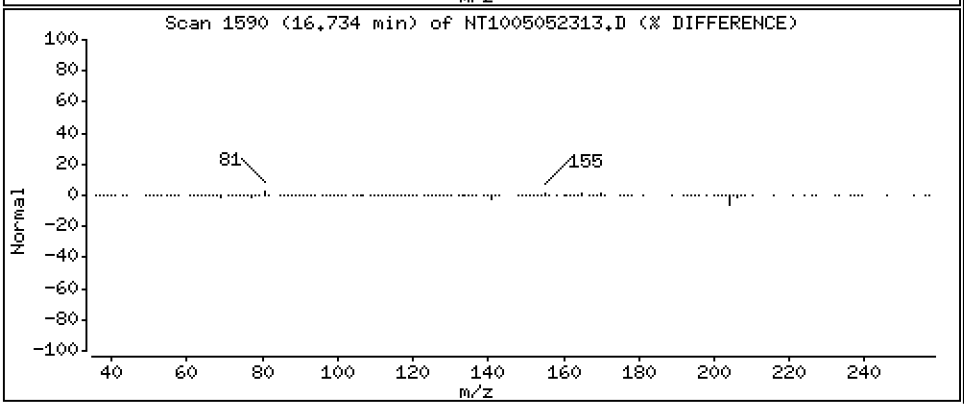












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

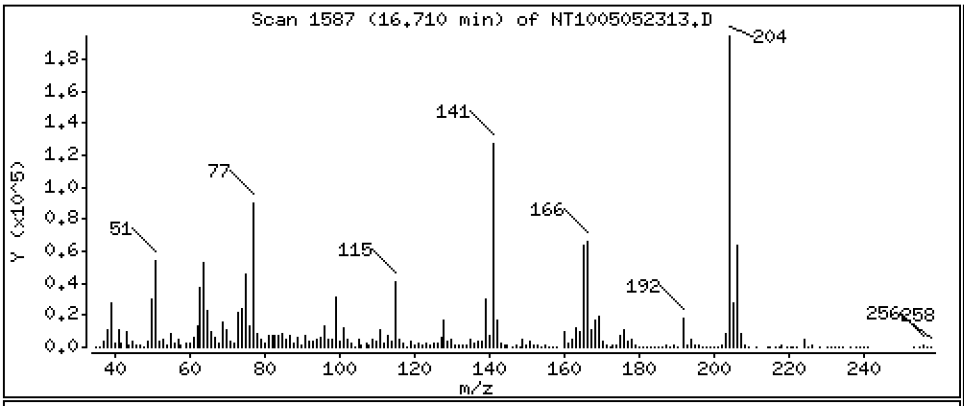
Operator: VTS

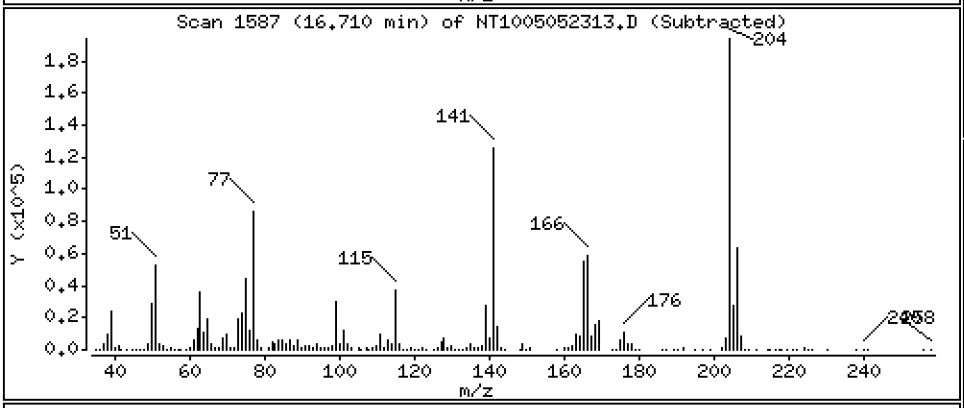
Column phase: ZB-5msi

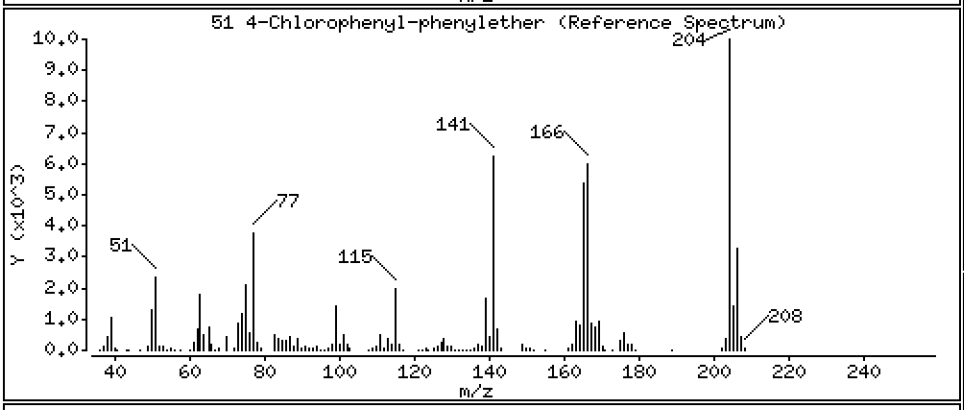
Column diameter: 0.25

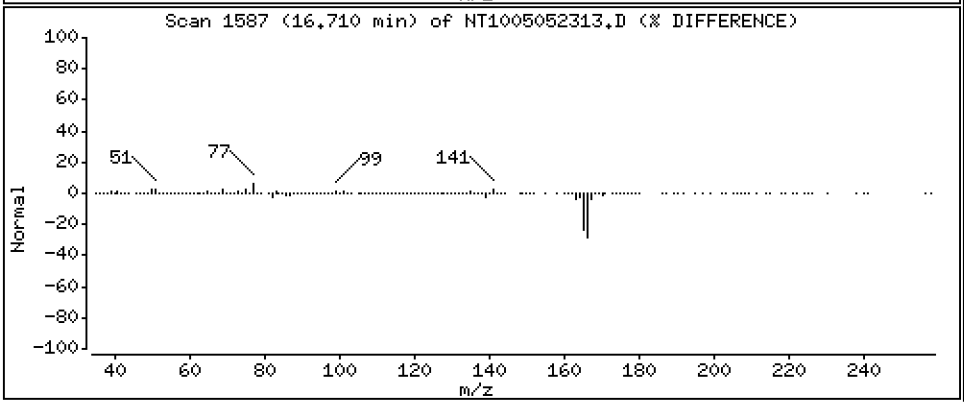
51 4-Chlorophenyl-phenylether

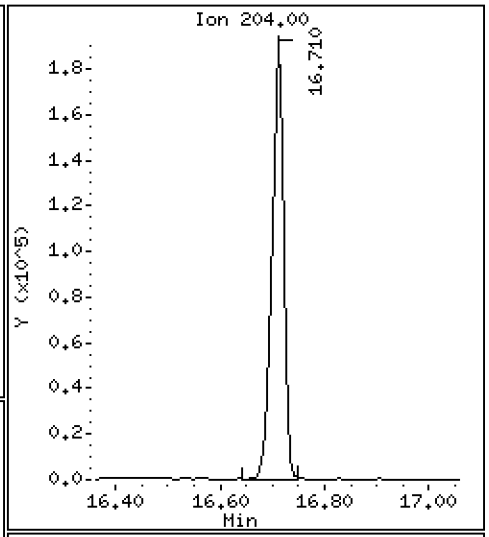
Concentration: 4.290 ug/mL

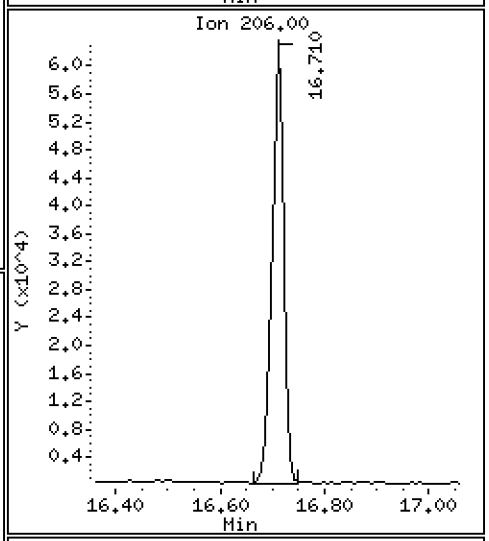


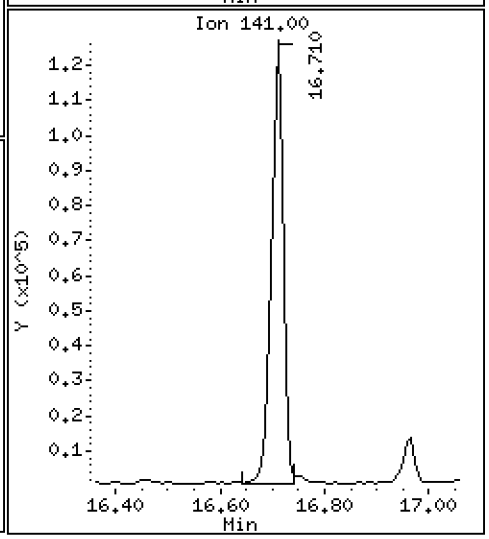












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

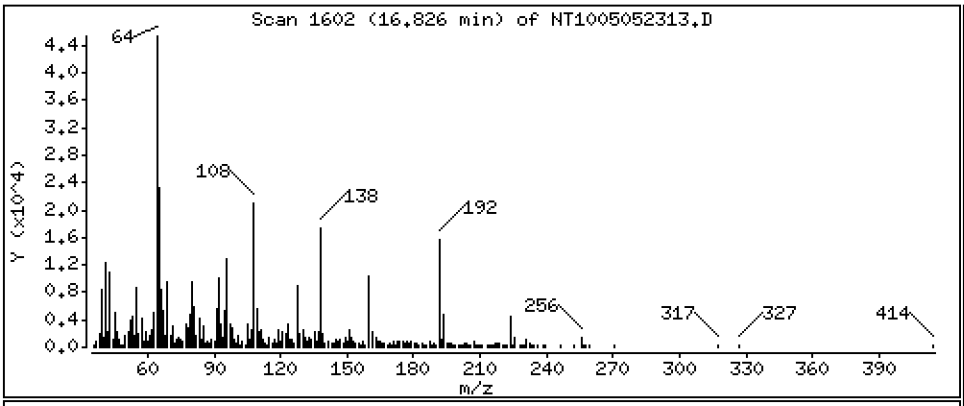
Operator: VTS

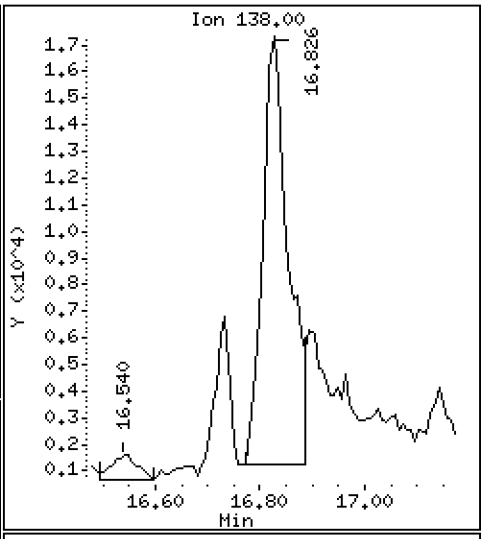
Column phase: ZB-5msi

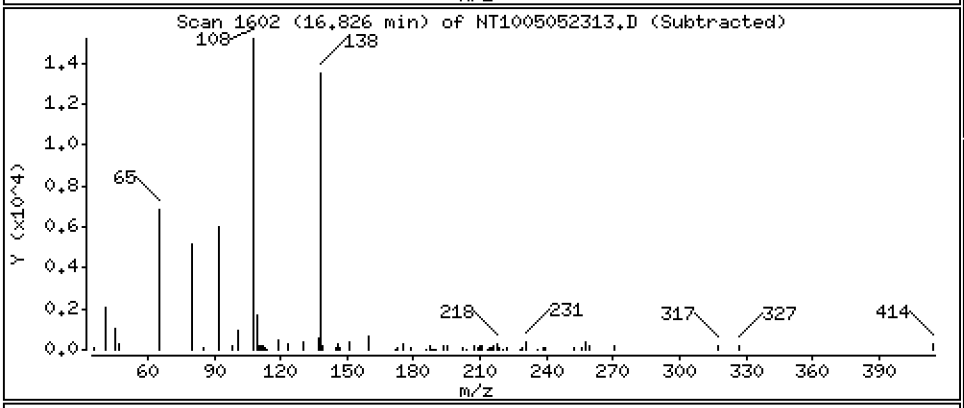
Column diameter: 0.25

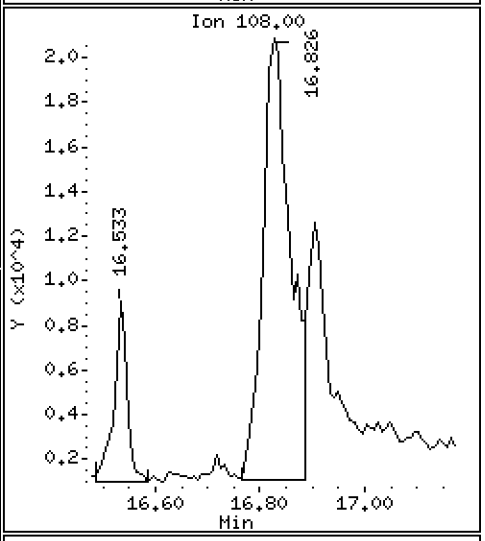
52 4-Nitroaniline

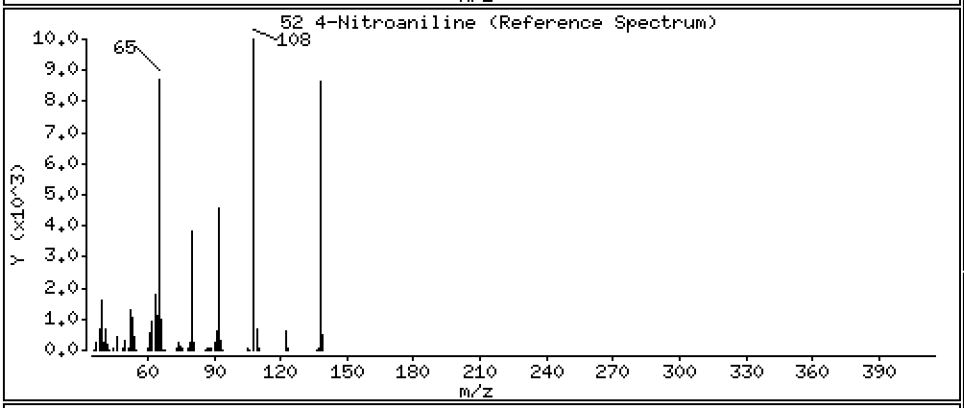
Concentration: 1.690 ug/mL

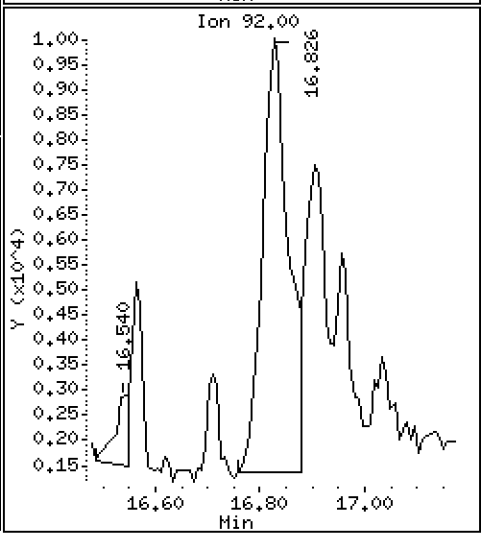


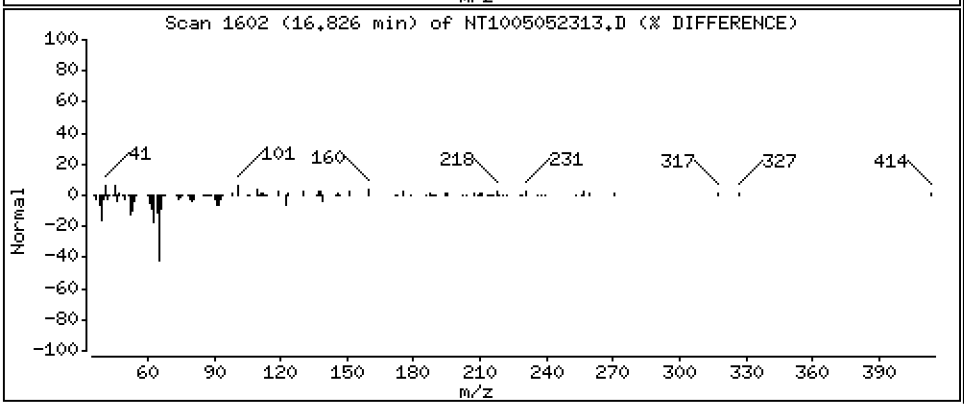












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

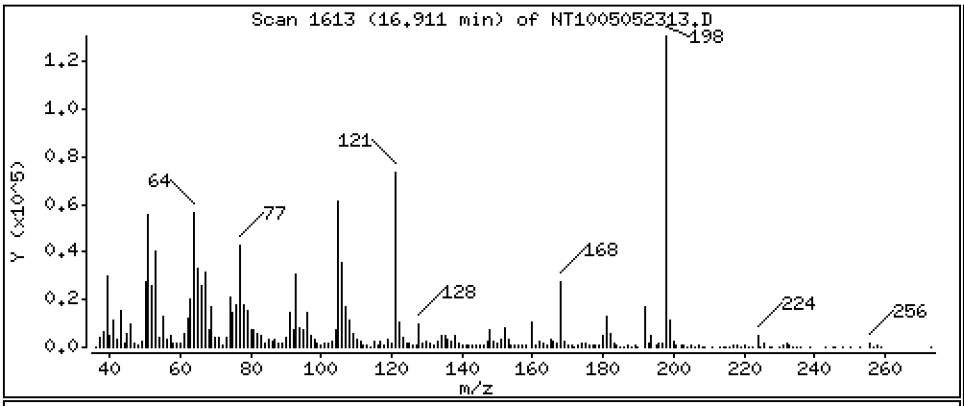
Operator: VTS

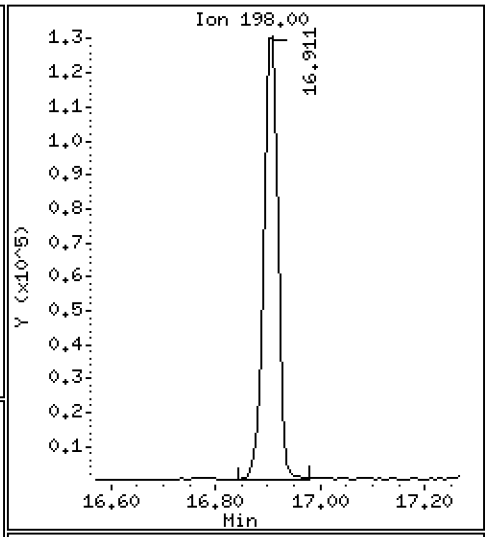
Column phase: ZB-5msi

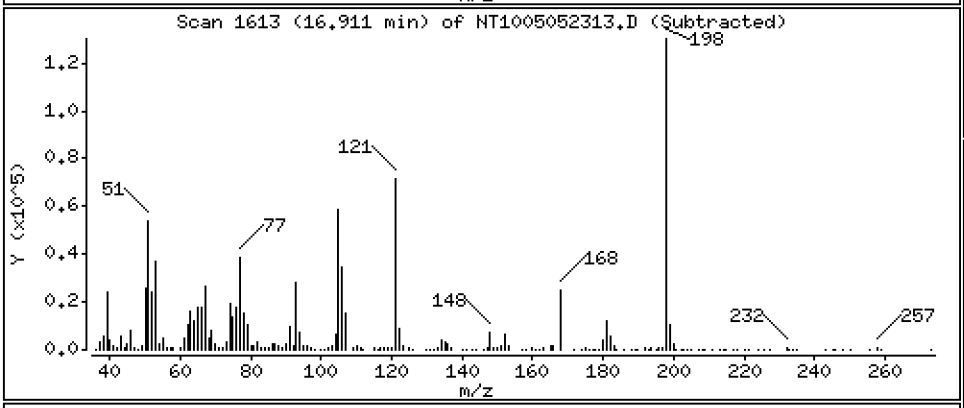
Column diameter: 0.25

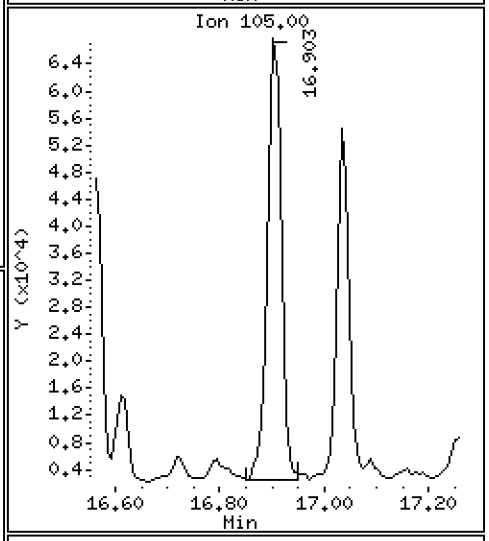
53 4,6-Dinitro-2-methylphenol

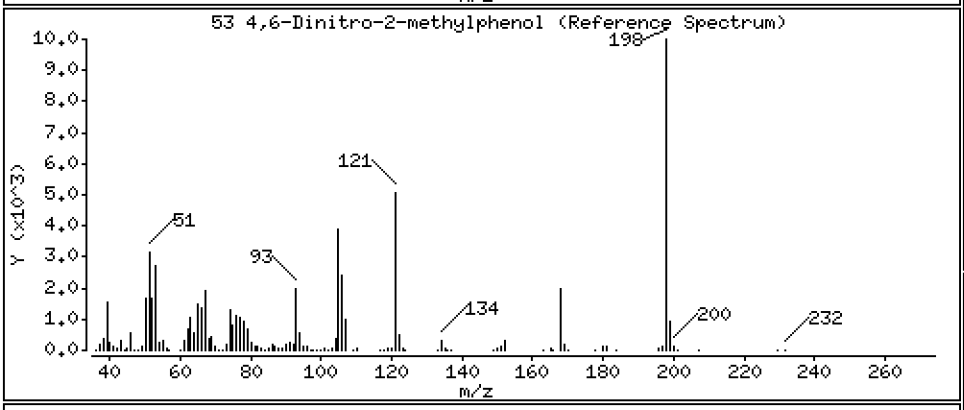
Concentration: 8.806 ug/mL

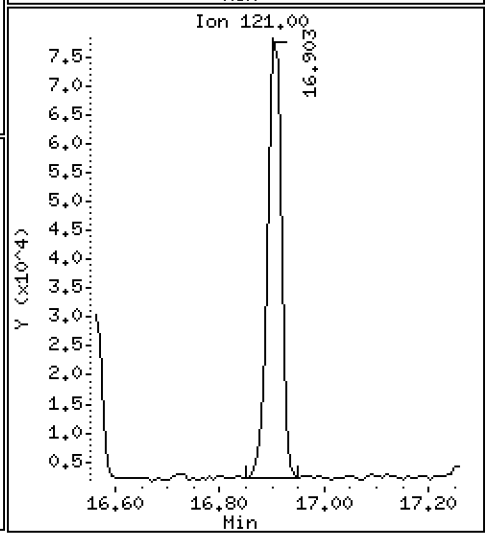


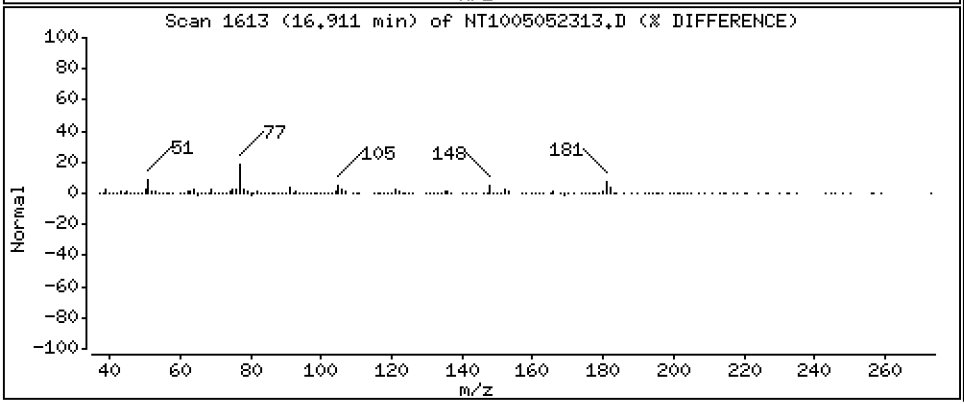












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

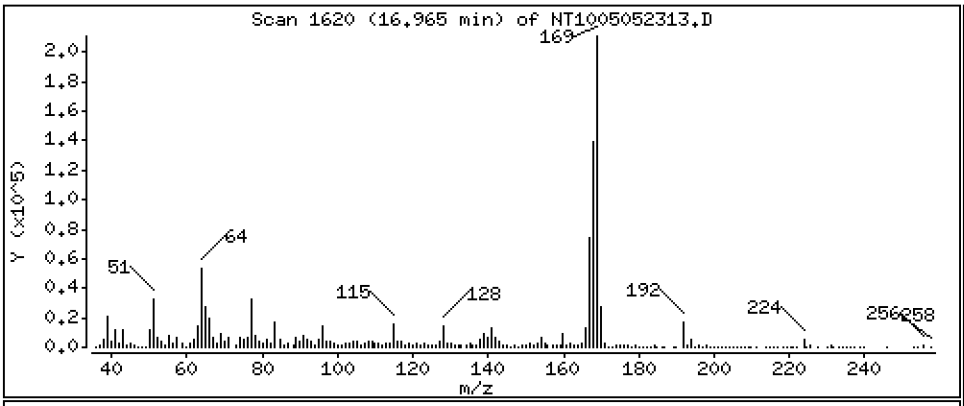
Operator: VTS

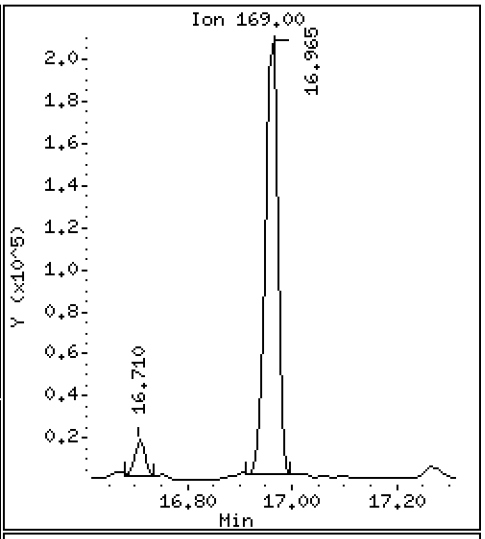
Column phase: ZB-5msi

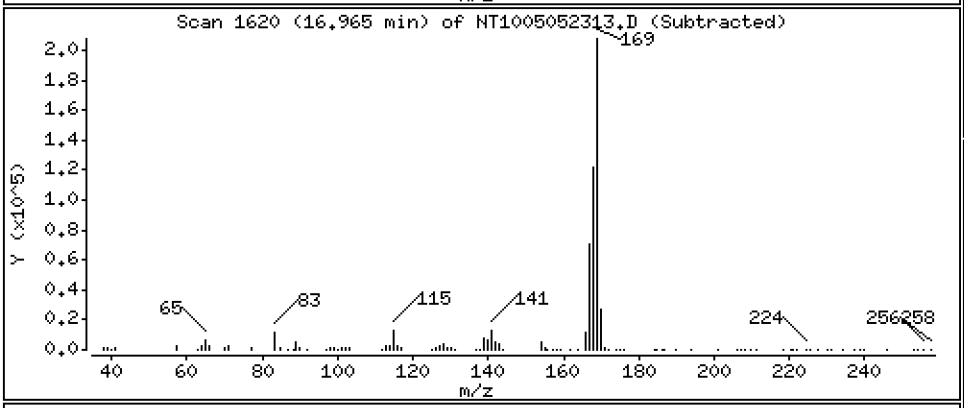
Column diameter: 0.25

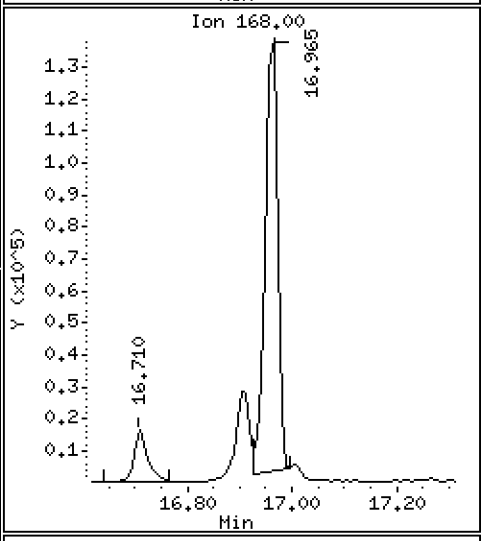
54 N-Nitrosodiphenylamine

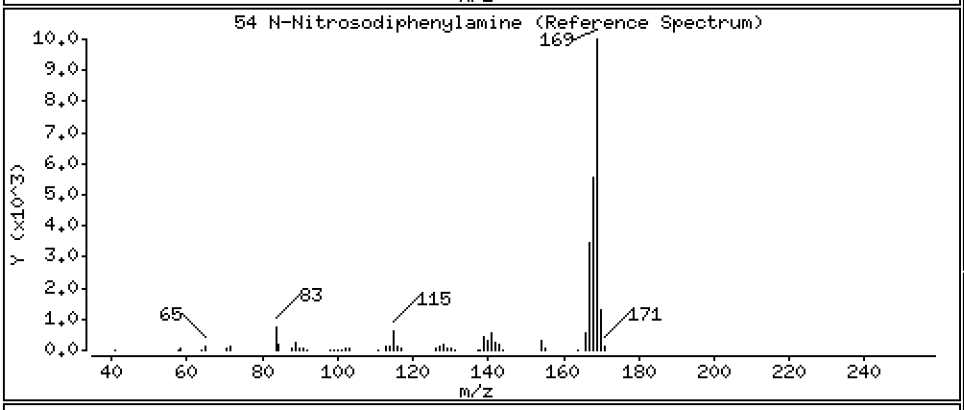
Concentration: 3.560 ug/mL

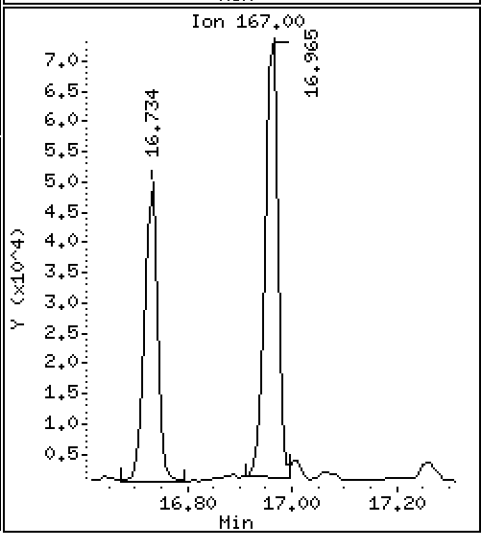


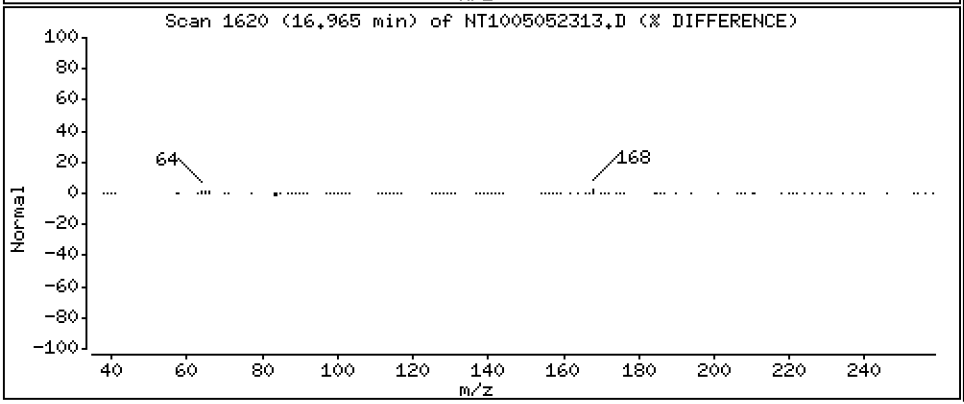












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

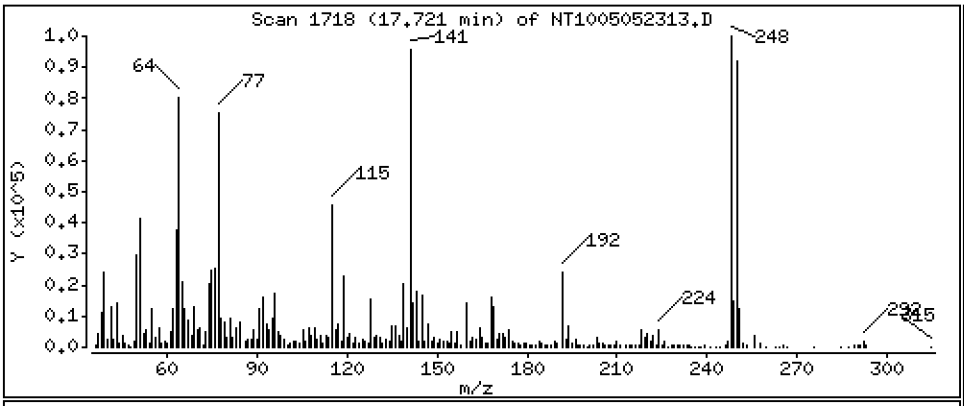
Operator: VTS

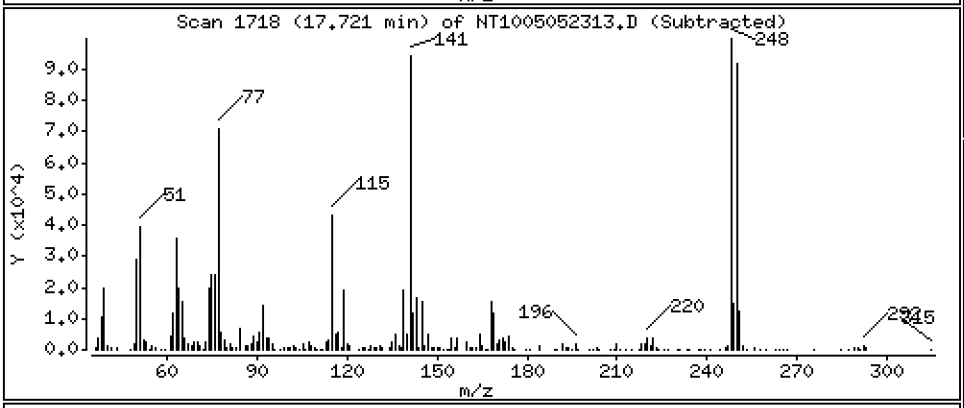
Column phase: ZB-5msi

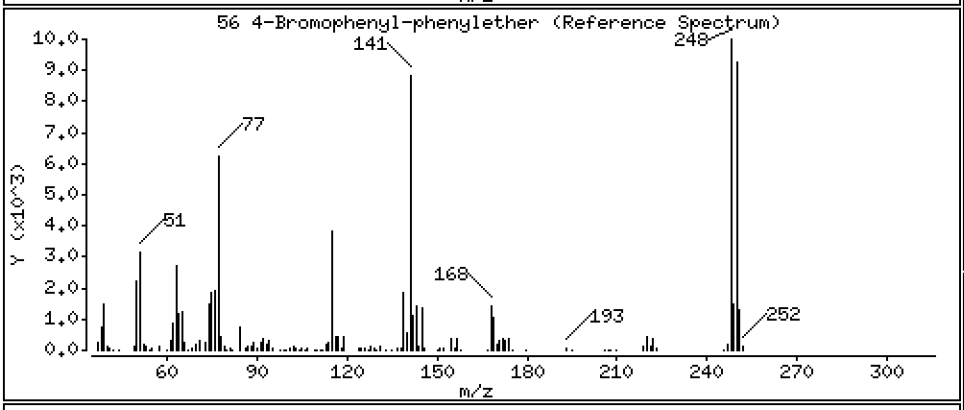
Column diameter: 0.25

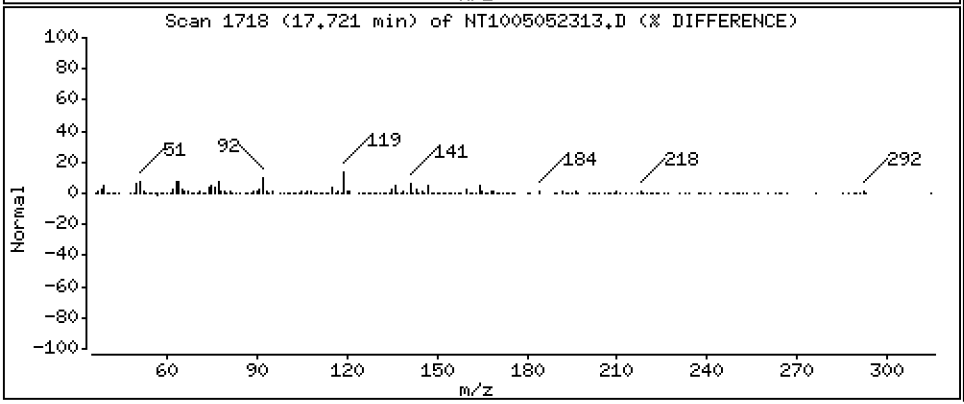
56 4-Bromophenyl-phenylether

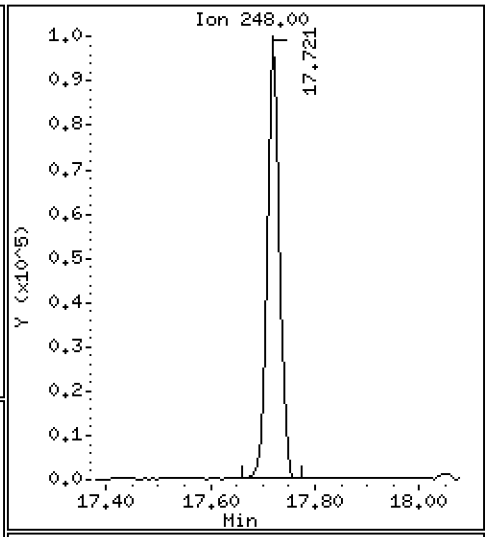
Concentration: 3.787 ug/mL

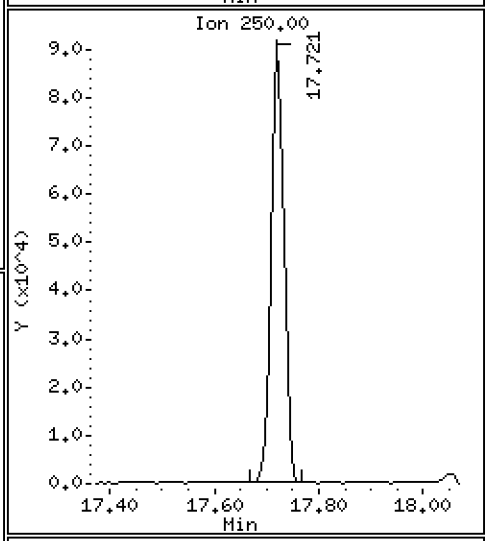


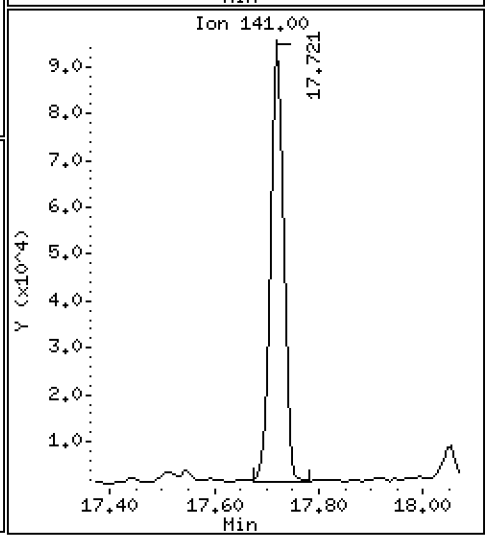












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

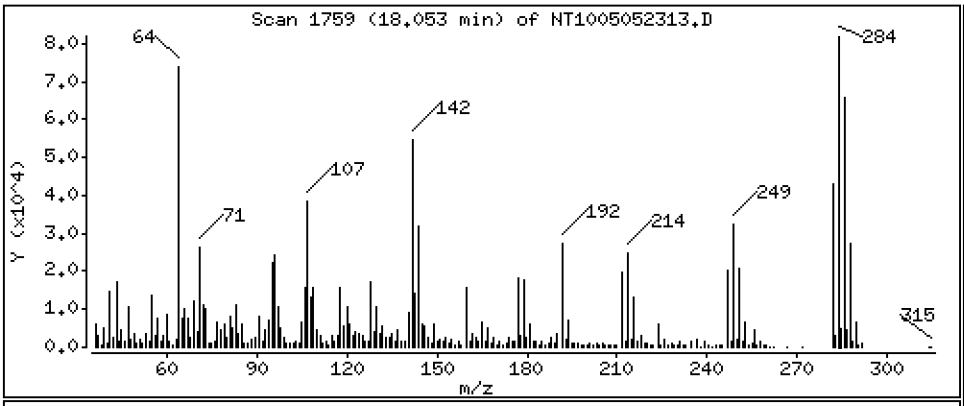
Operator: VTS

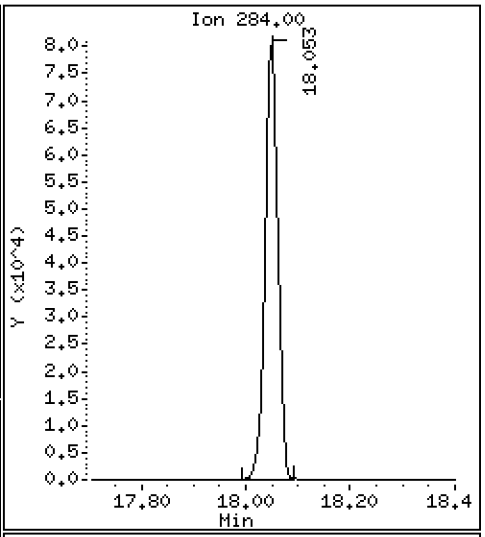
Column phase: ZB-5msi

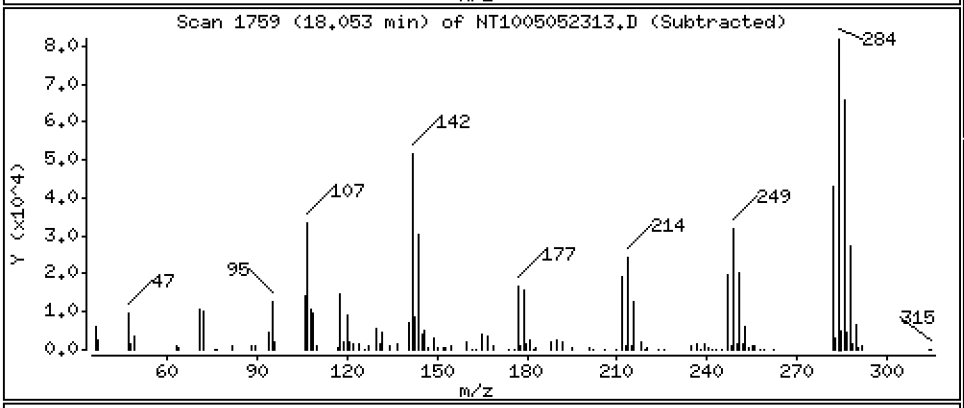
Column diameter: 0.25

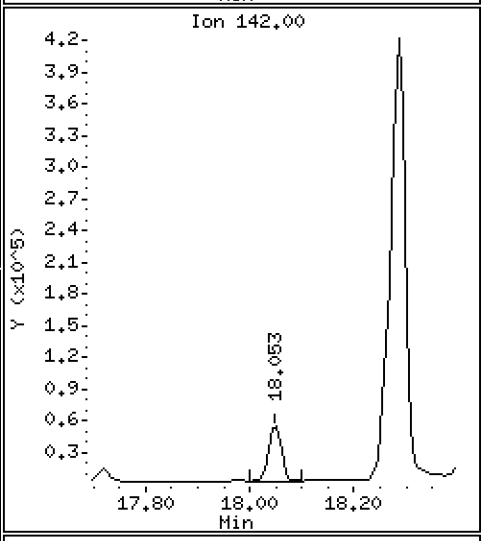
57 Hexachlorobenzene

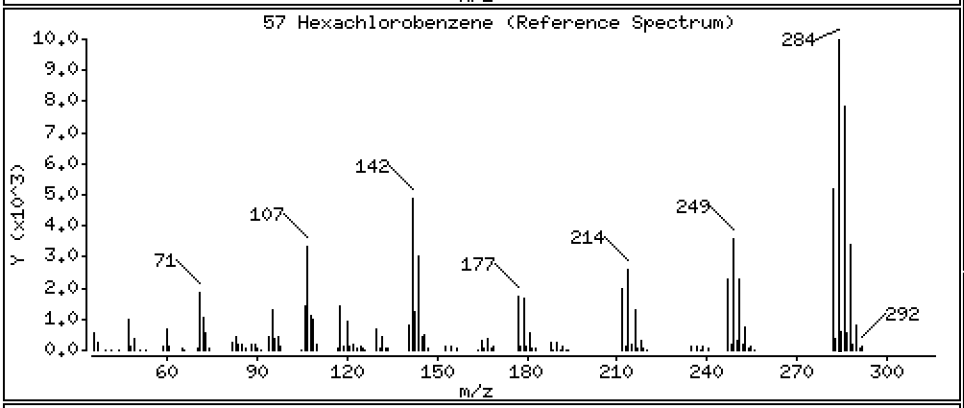
Concentration: 3.190 ug/mL

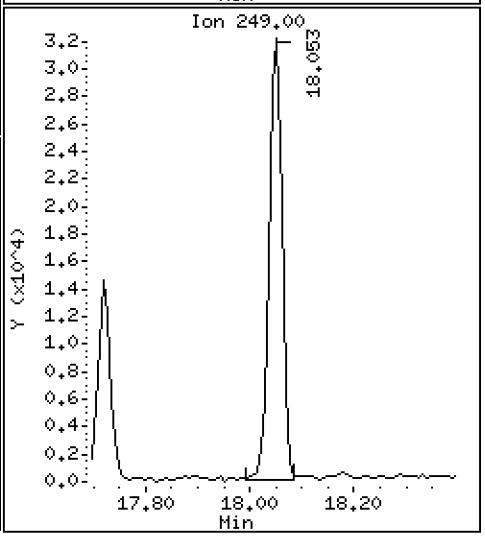


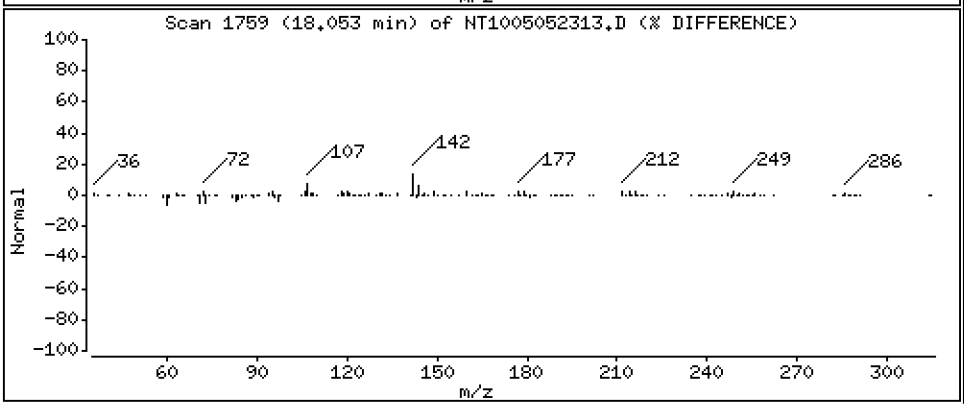












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

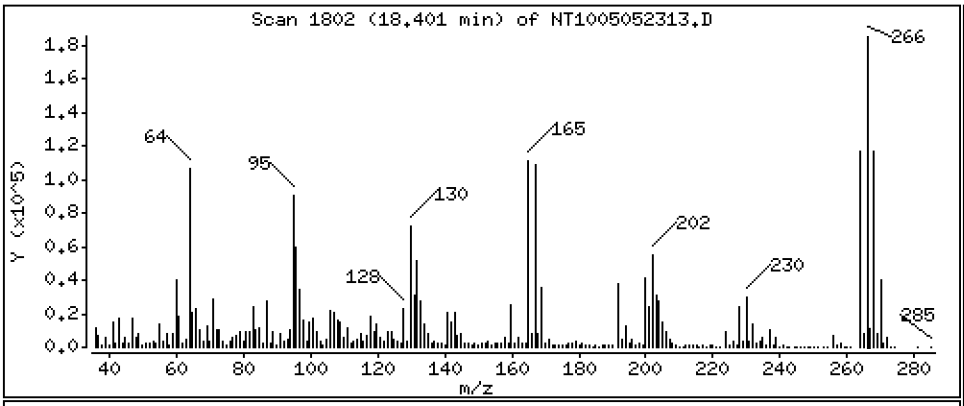
Operator: VTS

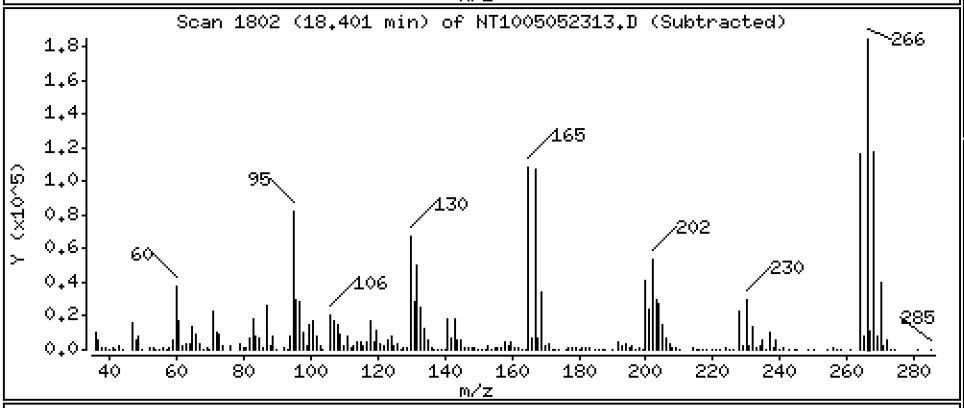
Column phase: ZB-5msi

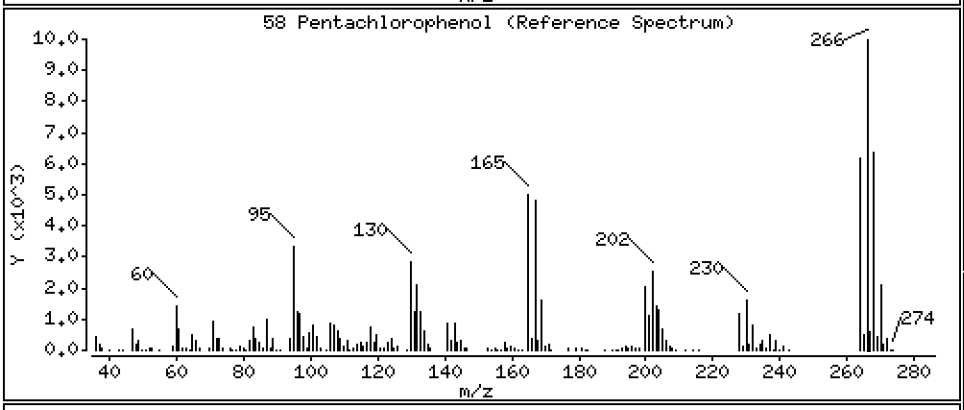
Column diameter: 0.25

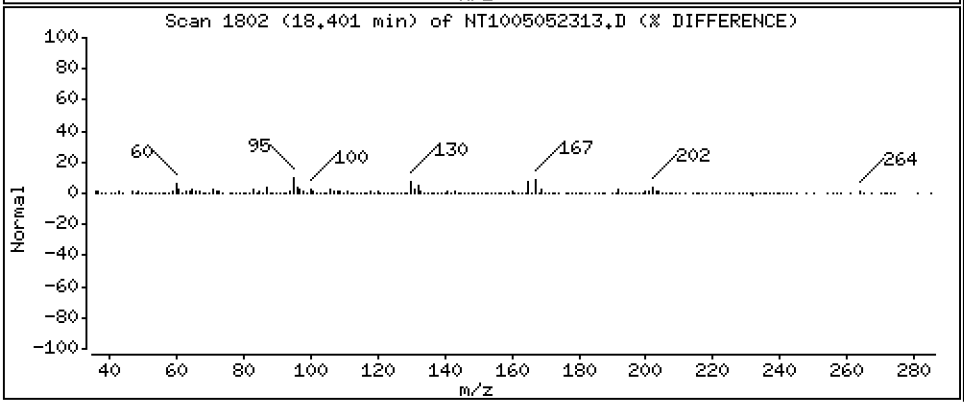
58 Pentachlorophenol

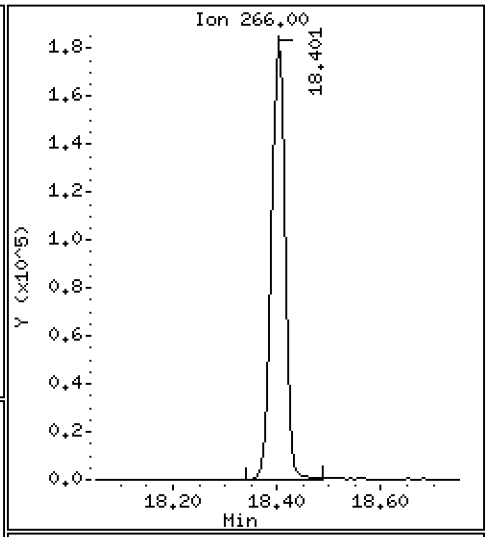
Concentration: 10.29 ug/mL

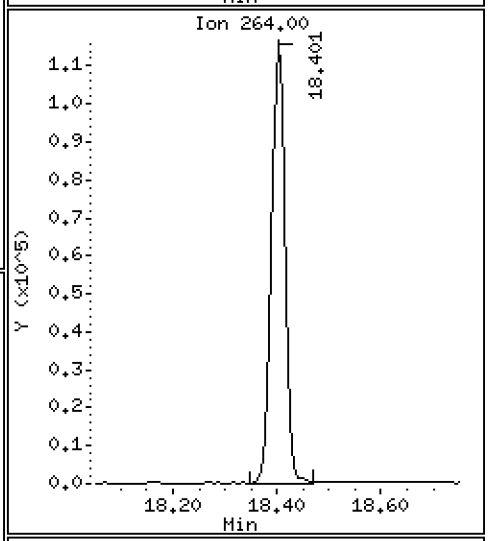


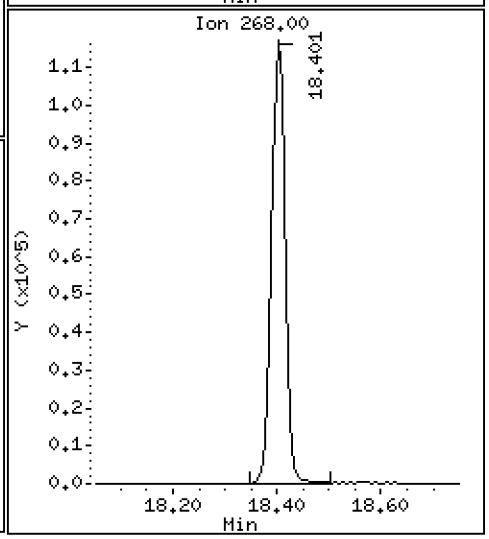












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

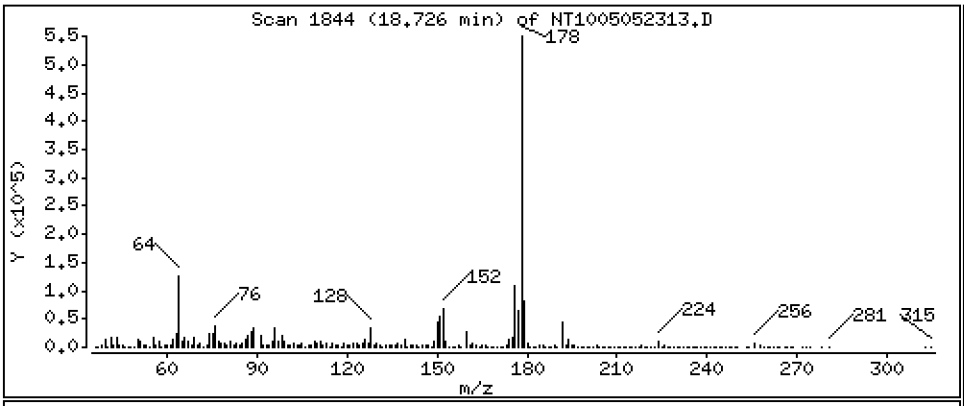
Operator: VTS

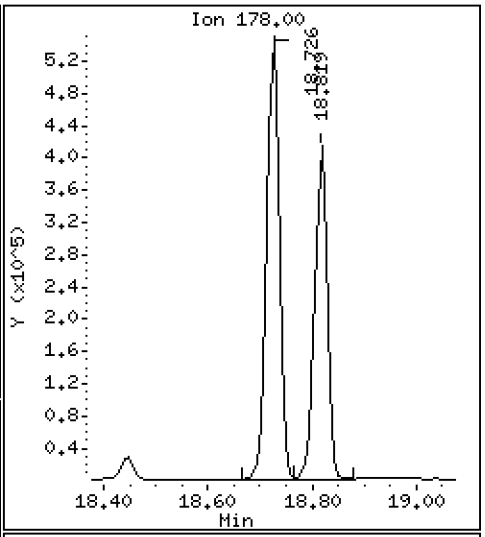
Column phase: ZB-5msi

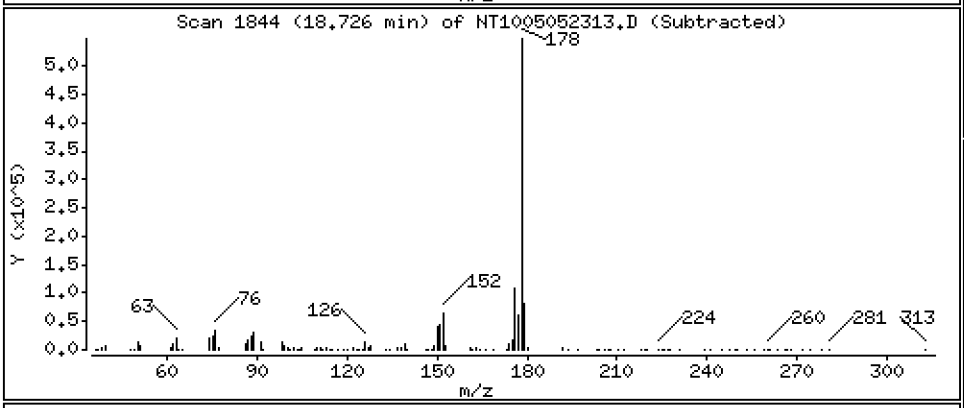
Column diameter: 0.25

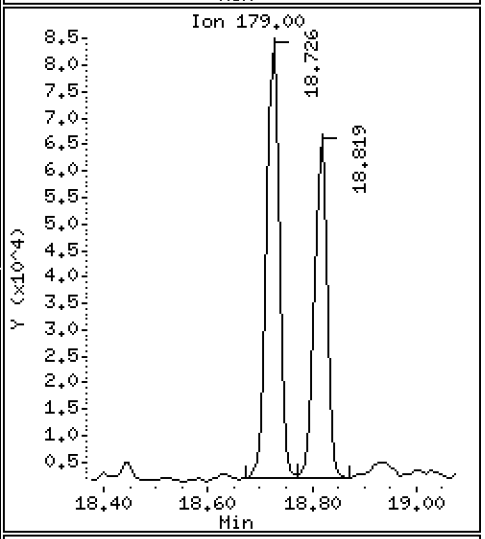
60 Phenanthrene

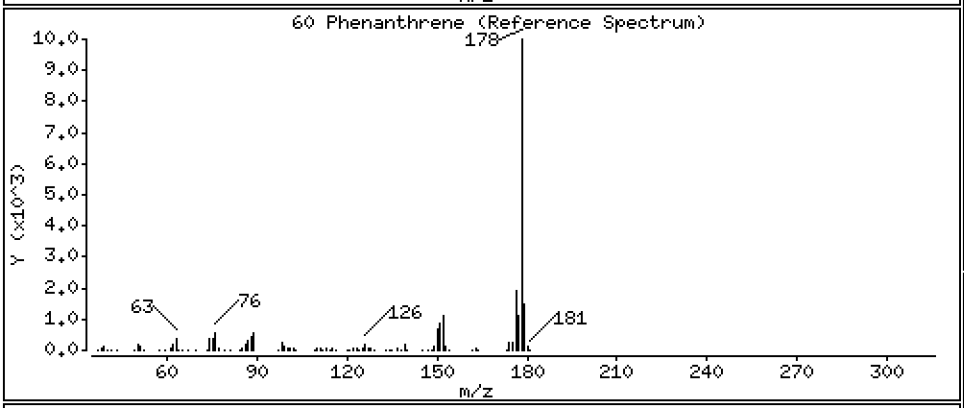
Concentration: 4.327 ug/mL

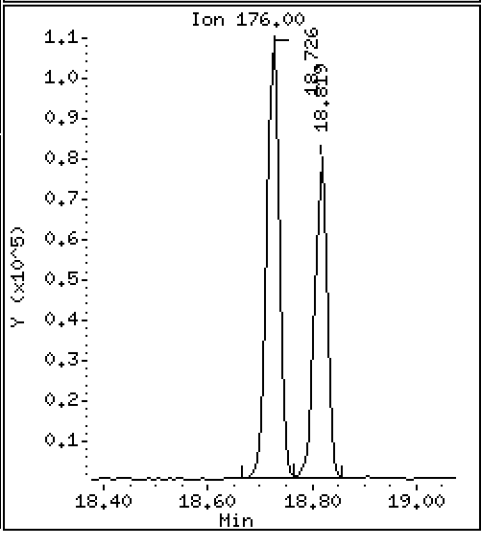


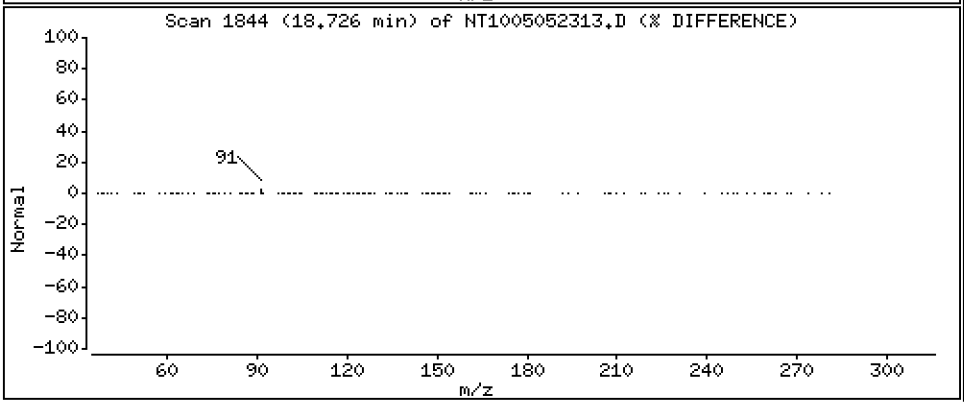












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

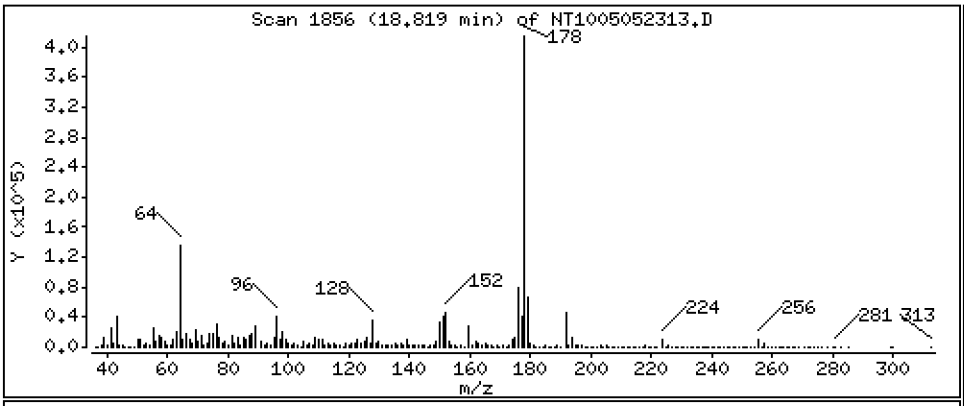
Operator: VTS

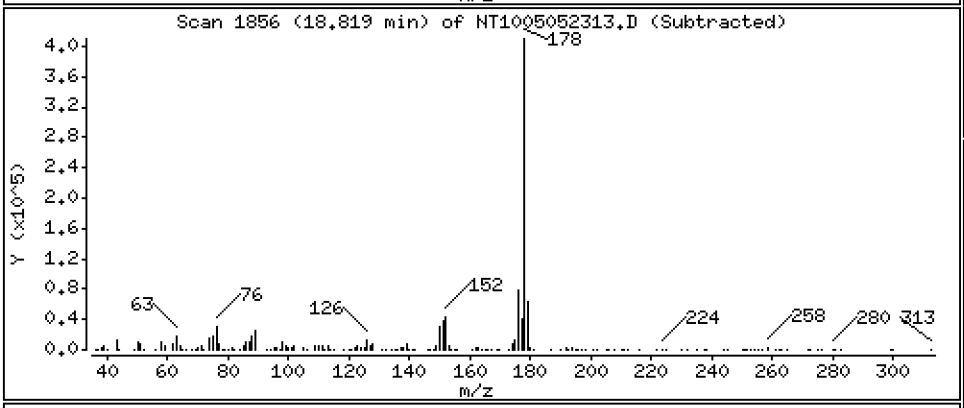
Column phase: ZB-5msi

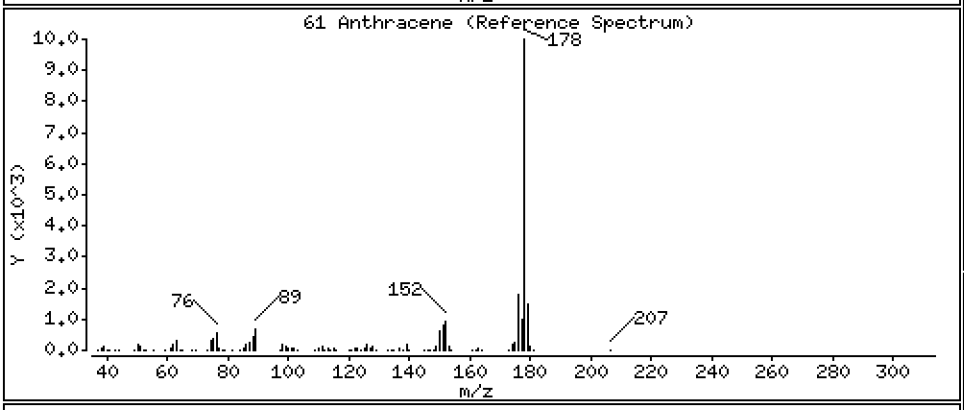
Column diameter: 0.25

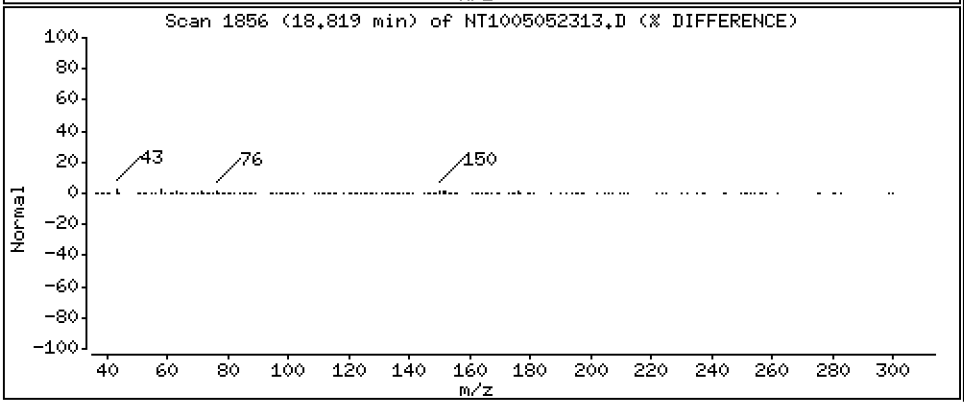
61 Anthracene

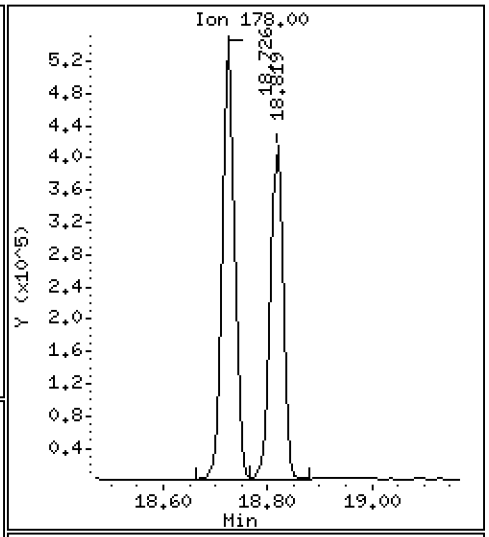
Concentration: 3.610 ug/mL

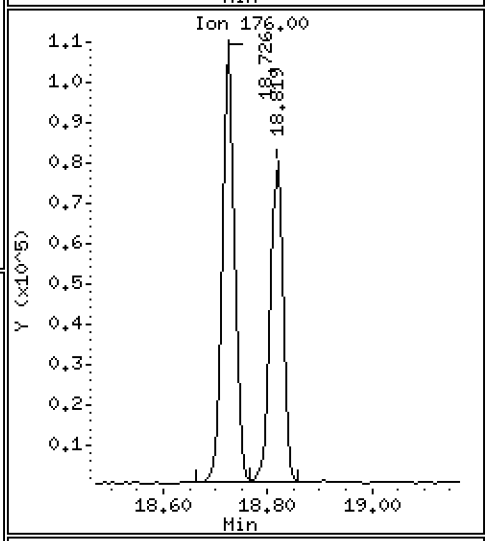


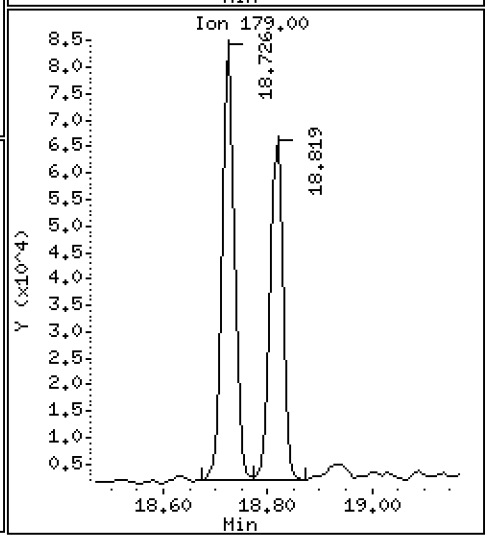












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

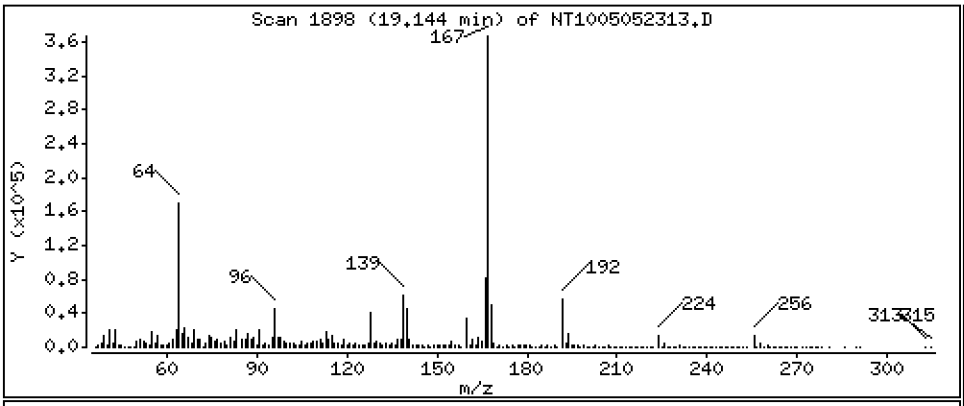
Operator: VTS

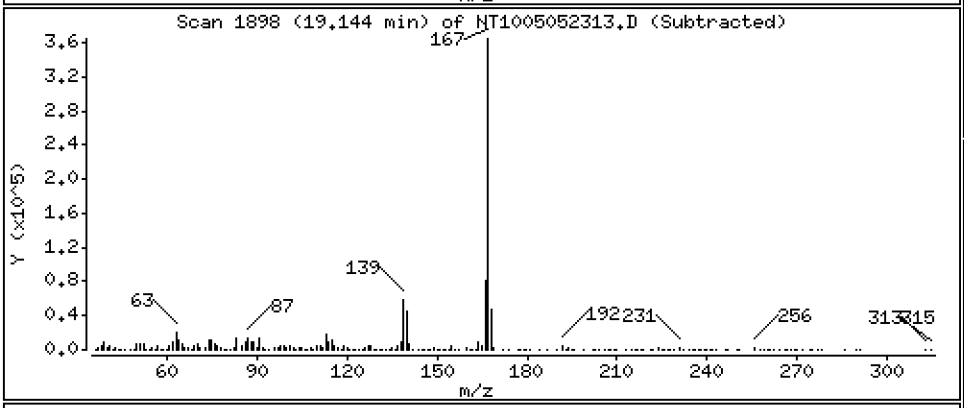
Column phase: ZB-5msi

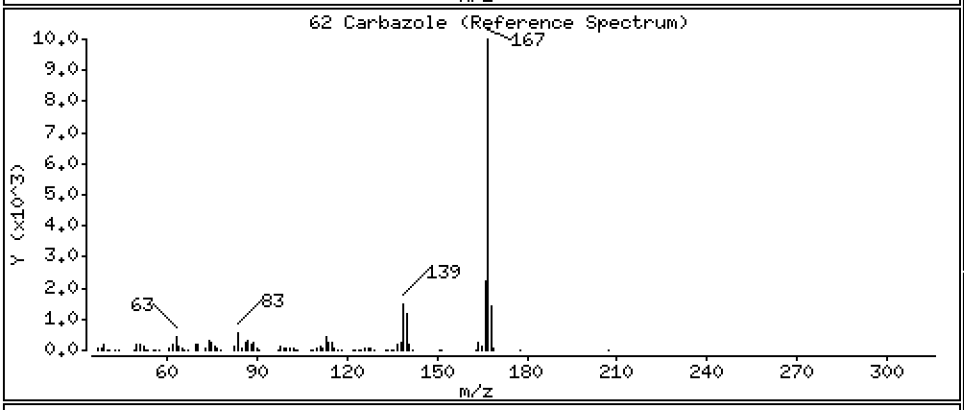
Column diameter: 0.25

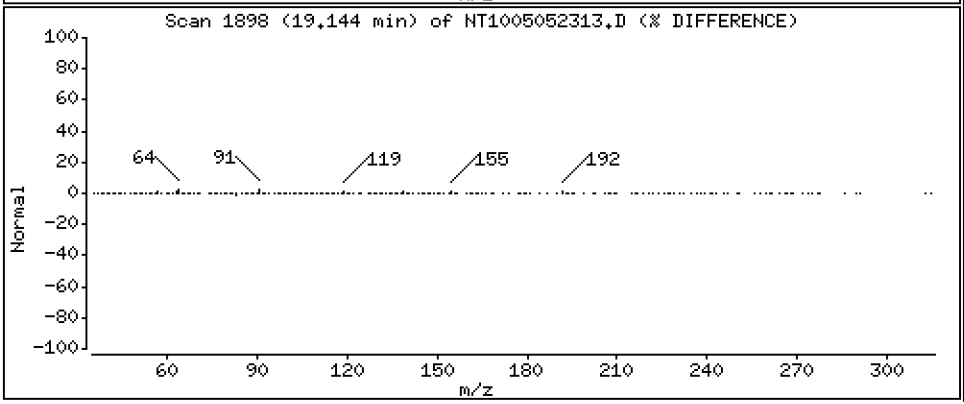
62 Carbazole

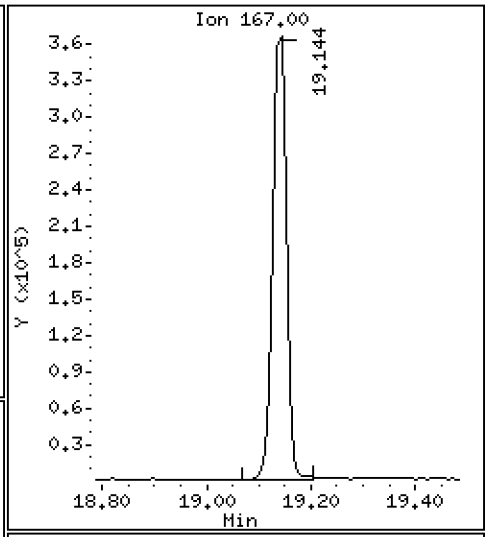
Concentration: 3.877 ug/mL

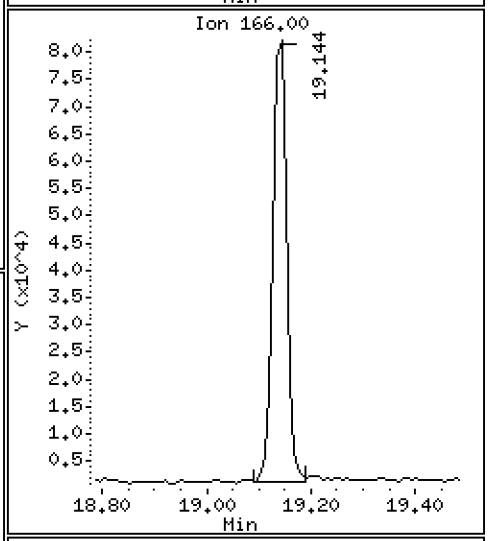


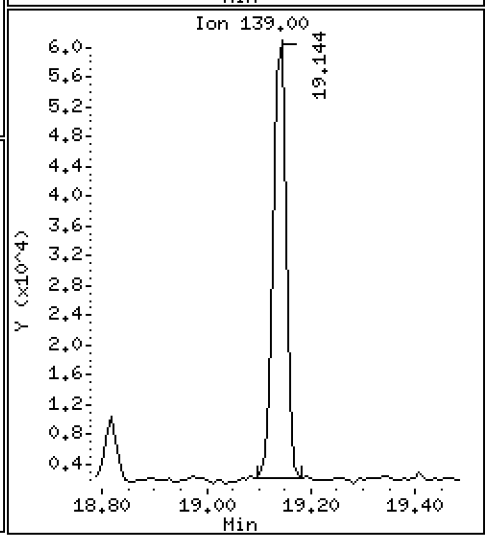












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

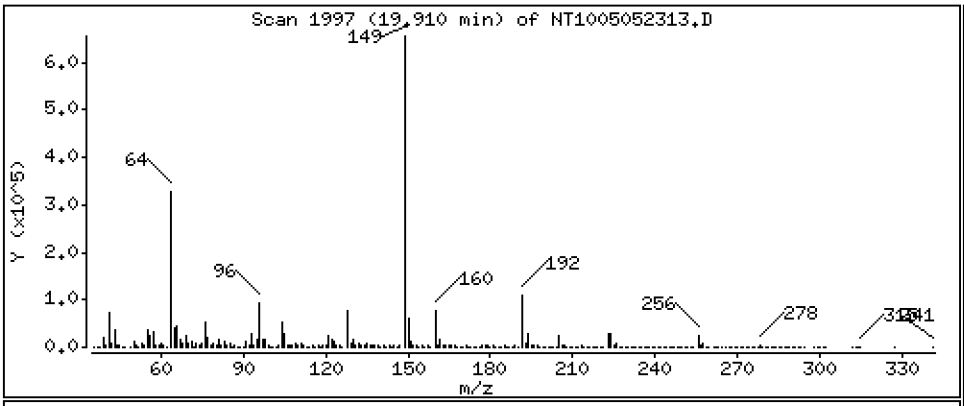
Operator: VTS

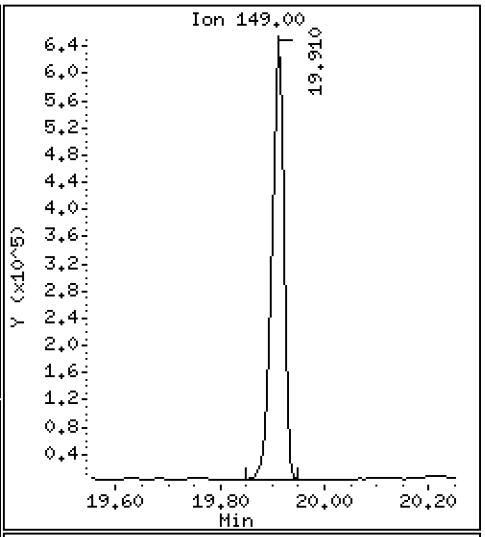
Column phase: ZB-5msi

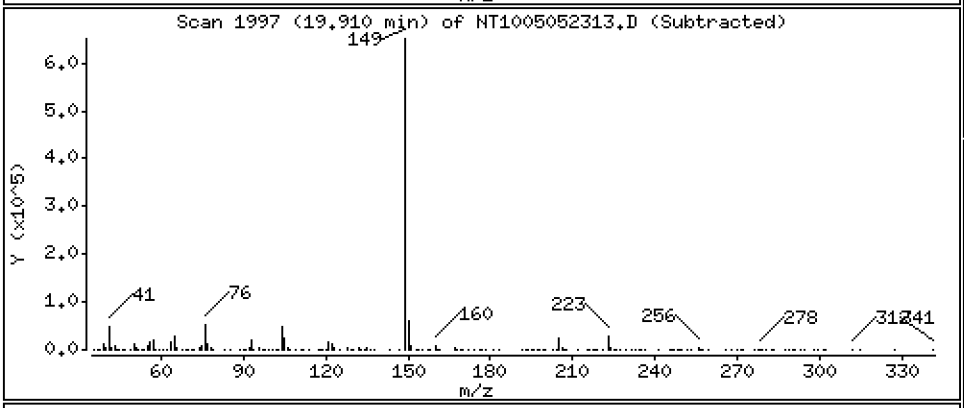
Column diameter: 0.25

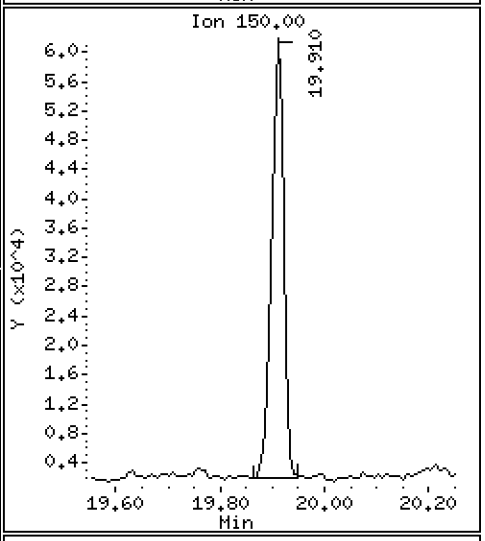
63 Di-n-butylphthalate

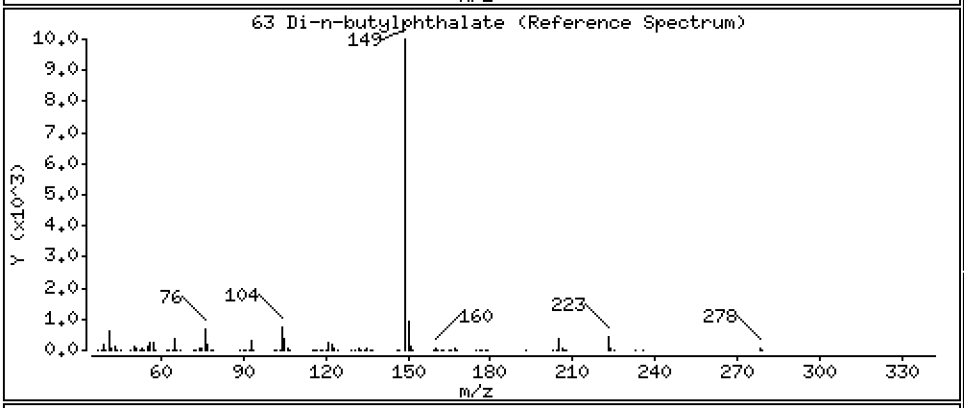
Concentration: 4.045 ug/mL

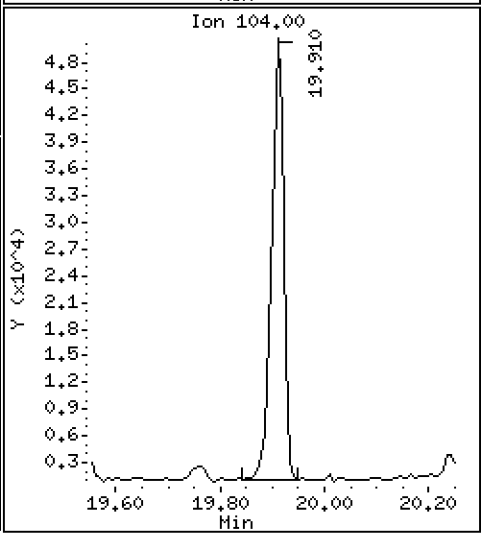


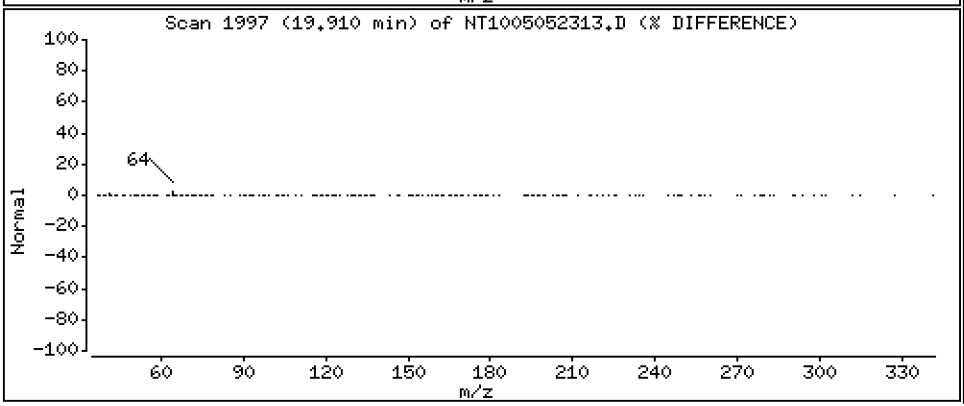












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

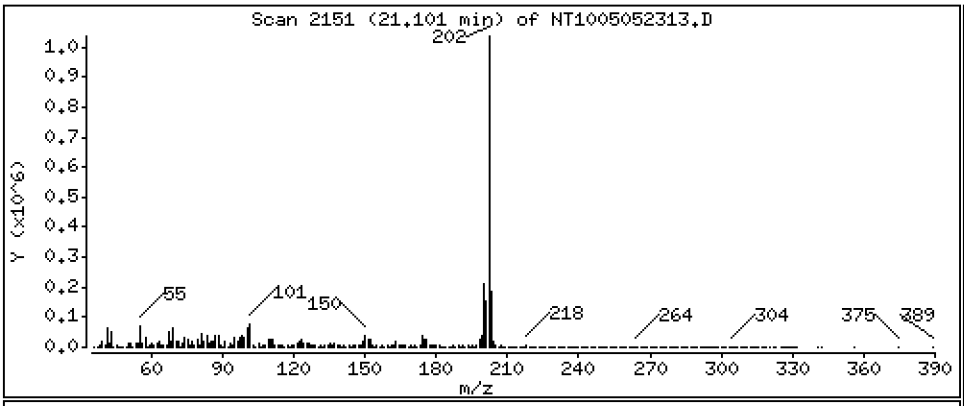
Operator: VTS

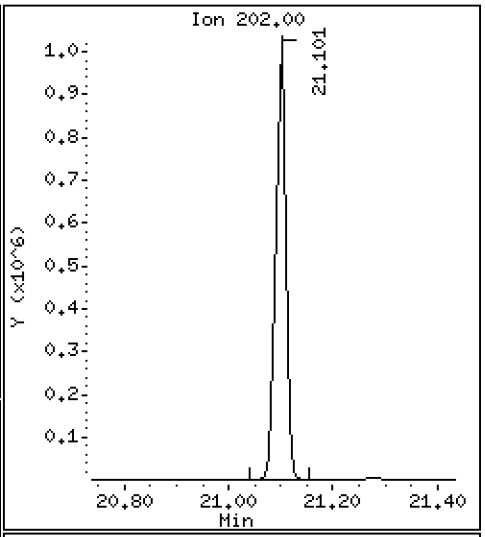
Column phase: ZB-5msi

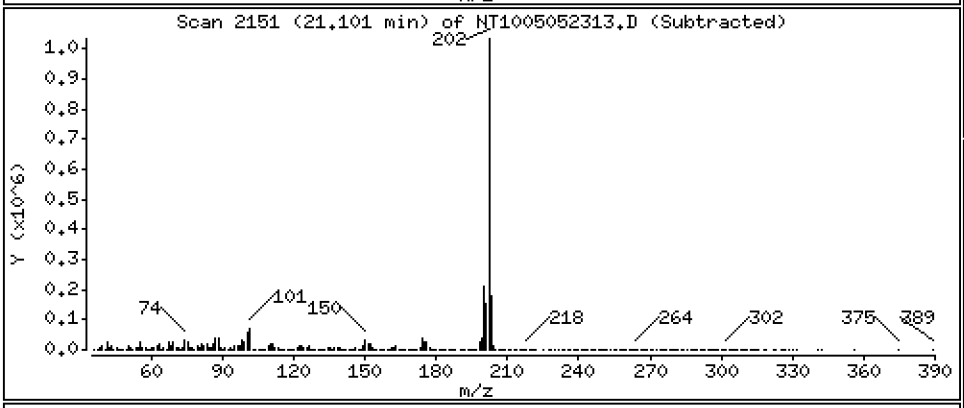
Column diameter: 0.25

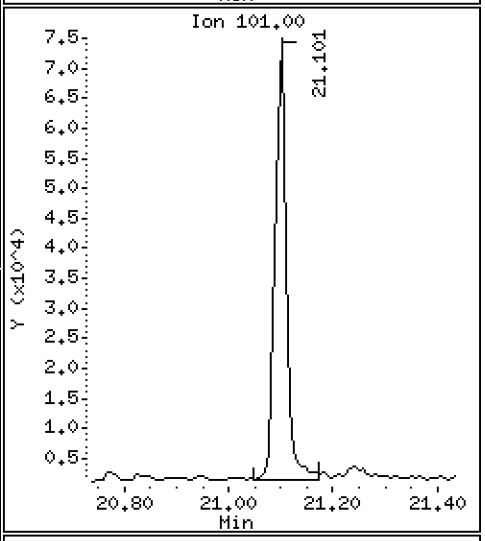
64 Fluoranthene

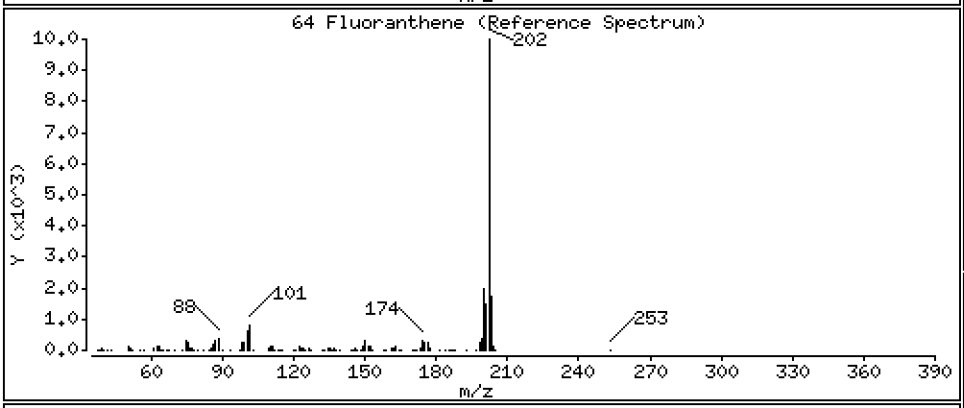
Concentration: 5.431 ug/mL

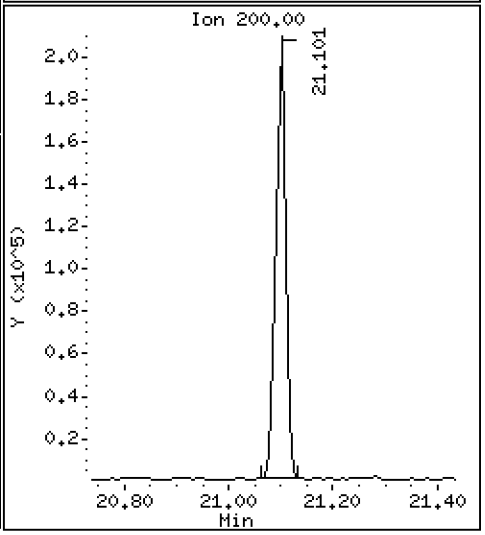


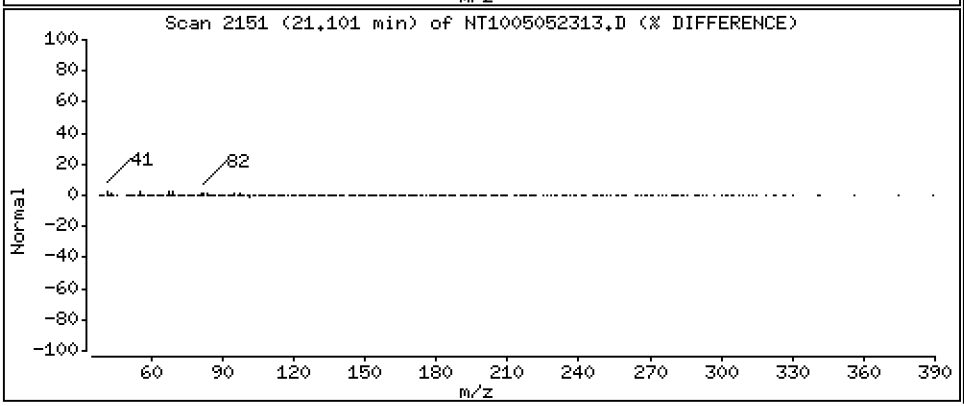












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

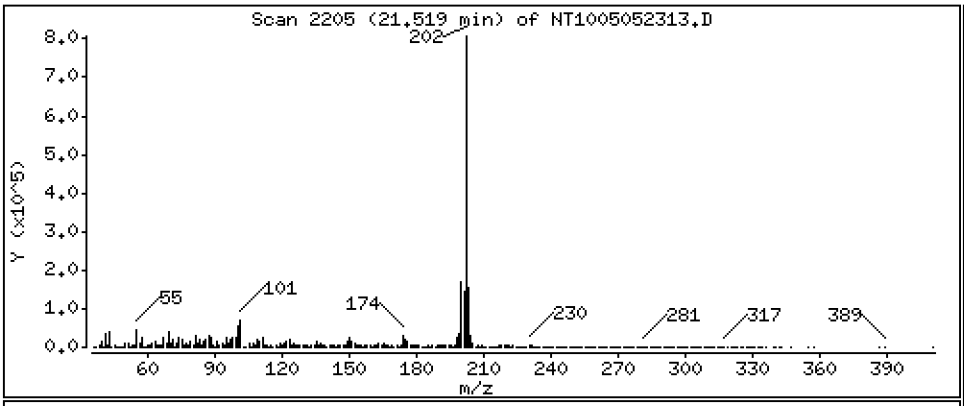
Operator: VTS

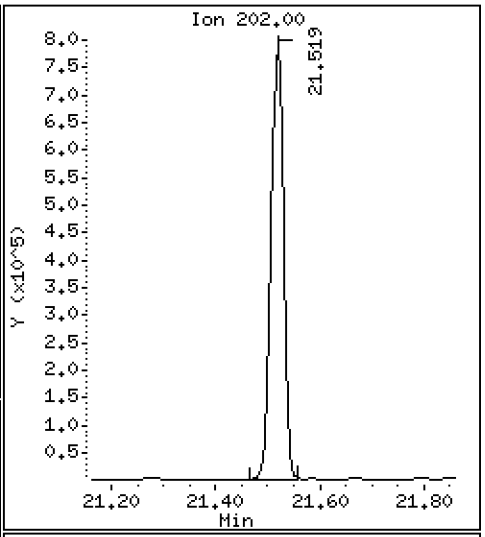
Column phase: ZB-5msi

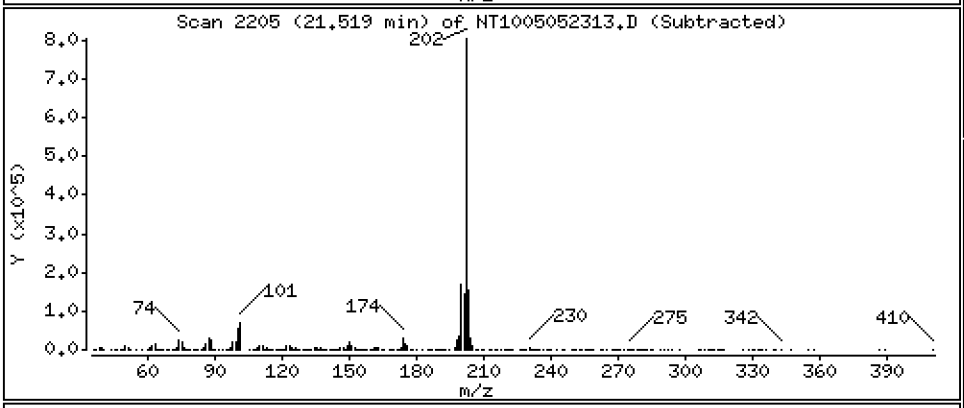
Column diameter: 0.25

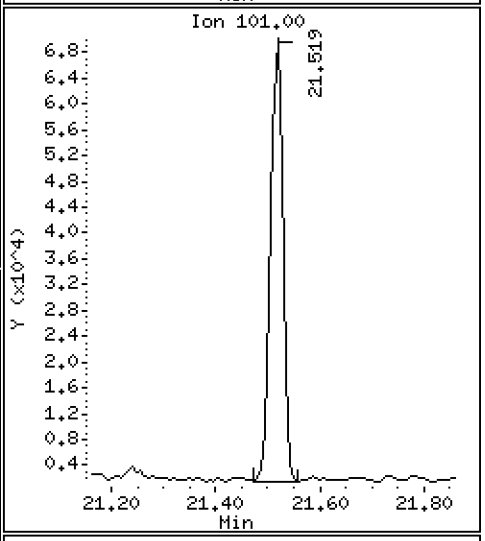
65 Pyrene

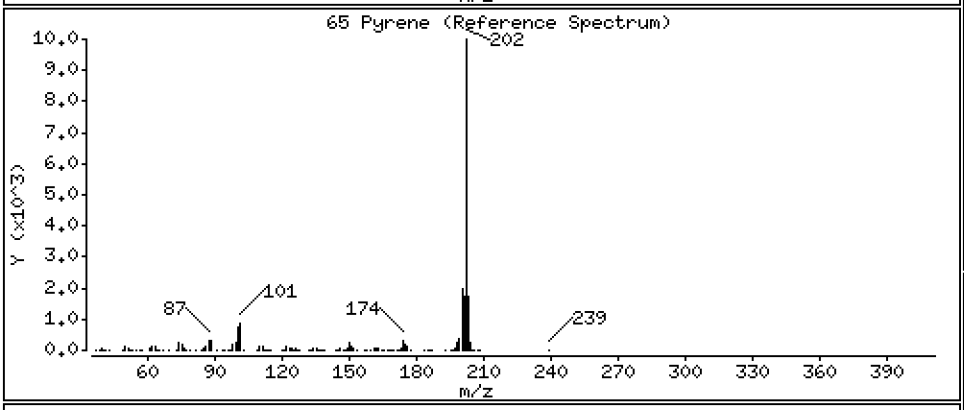
Concentration: 5.135 ug/mL

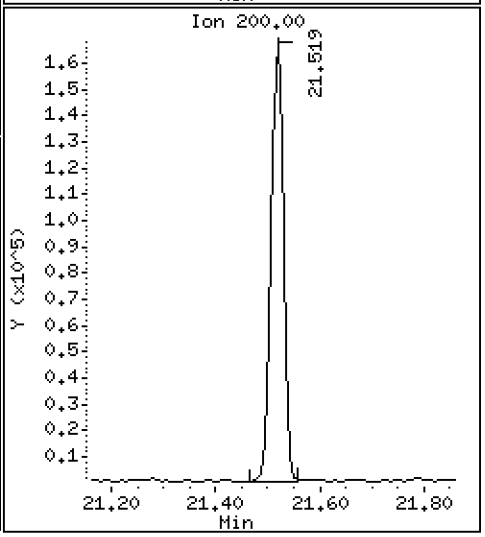


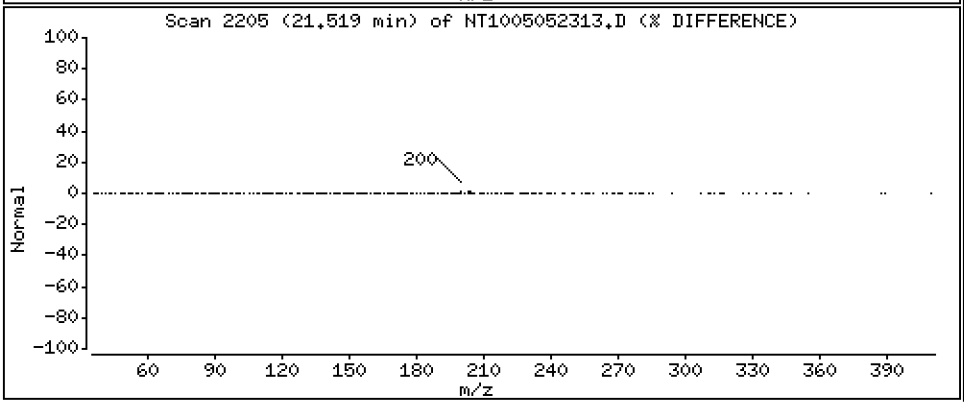












Date : 05-MAY-2023 18:32

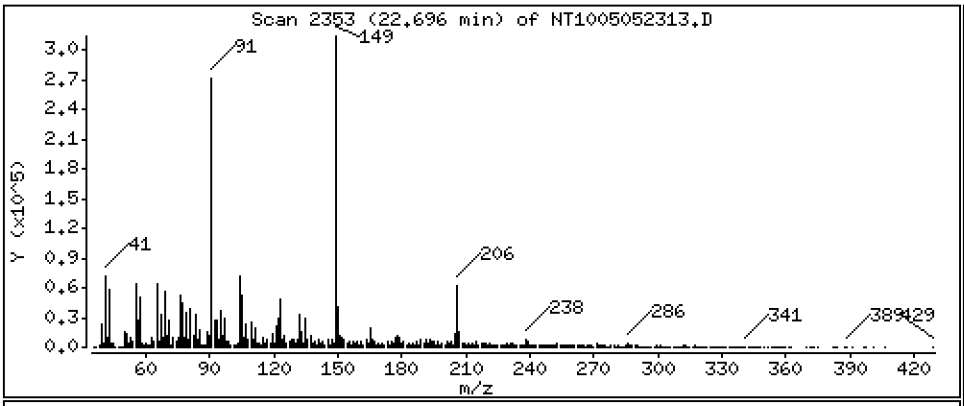
Client ID: Instrument: nt10.i

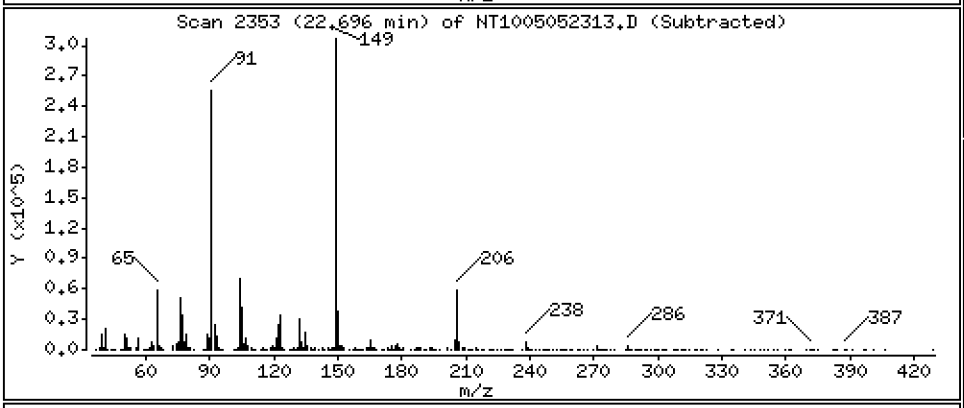
Sample Info: BLD0329-MS1

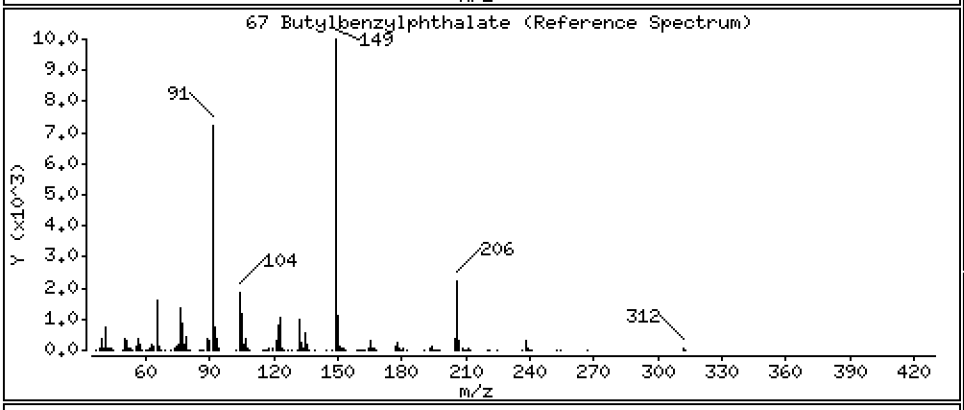
Operator: VTS

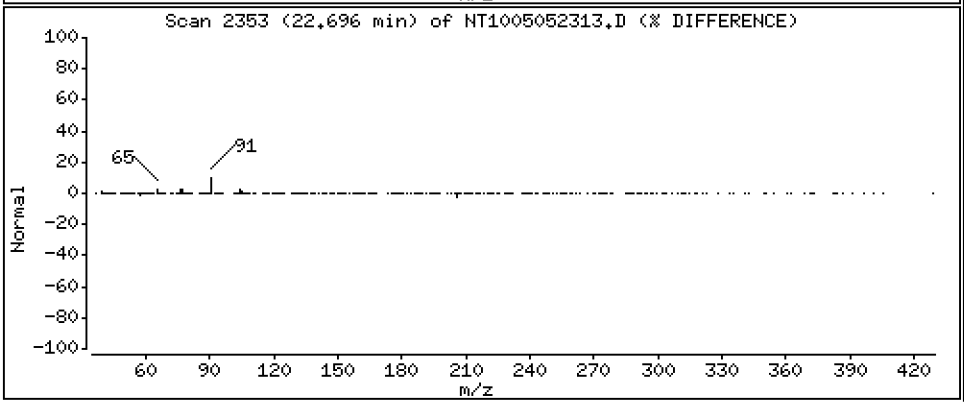
Column phase: ZB-5msi Column diameter: 0.25

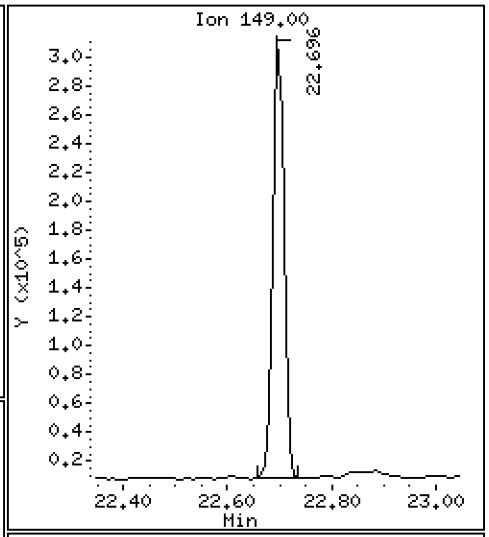
67 Butylbenzylphthalate Concentration: 3.847 ug/mL

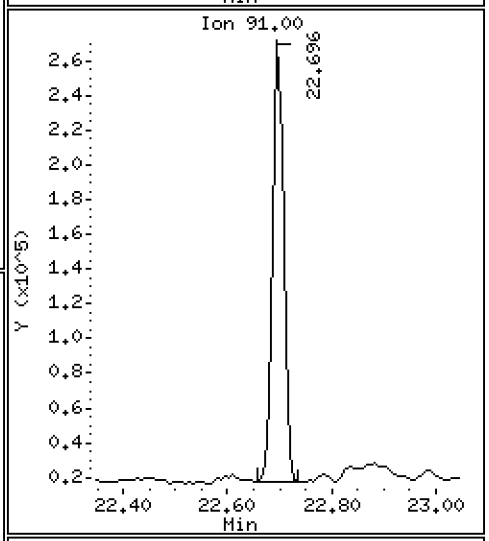


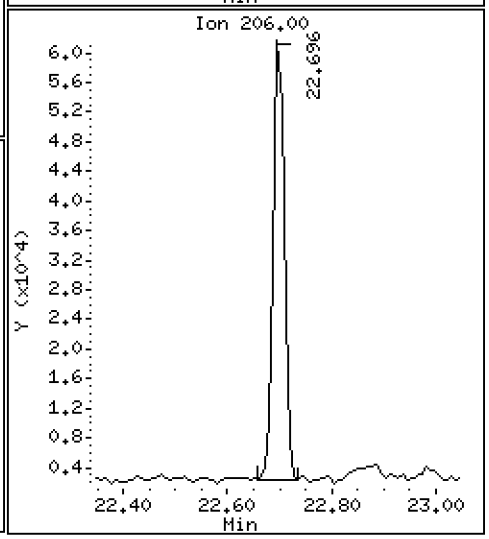












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

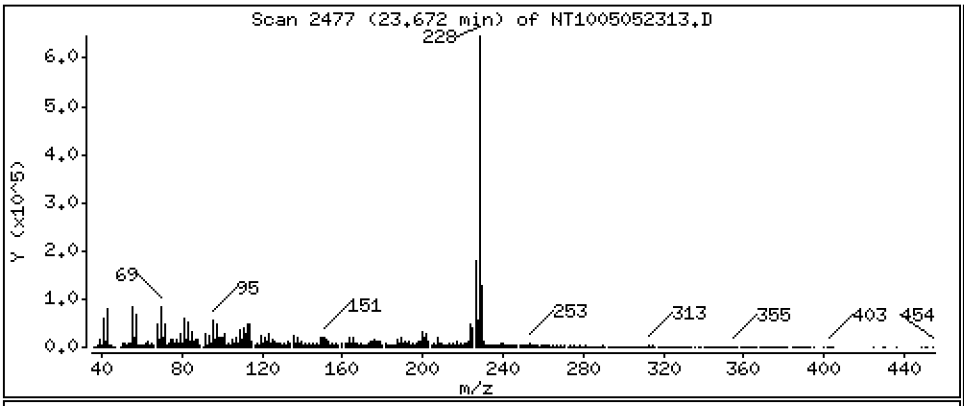
Operator: VTS

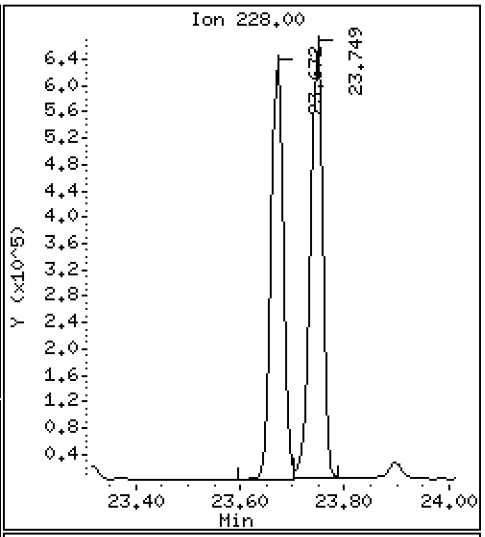
Column phase: ZB-5msi

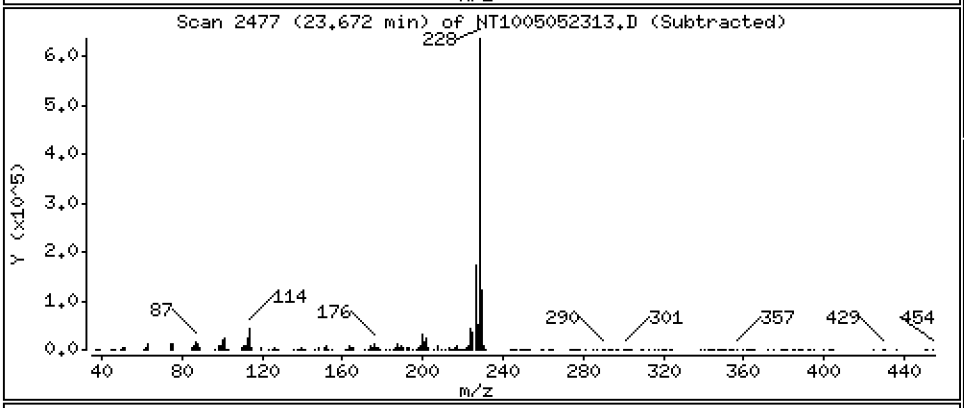
Column diameter: 0.25

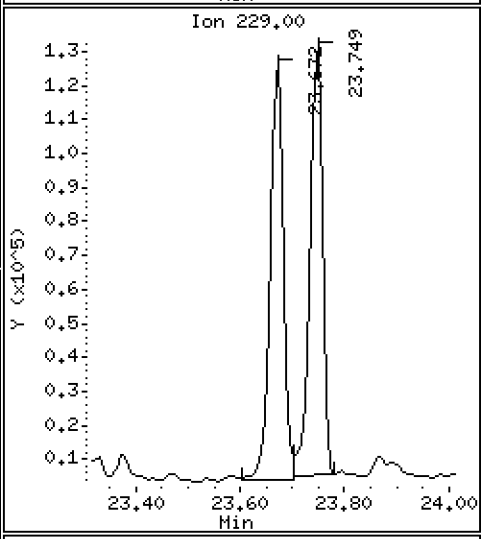
68 Benzo(a)anthracene

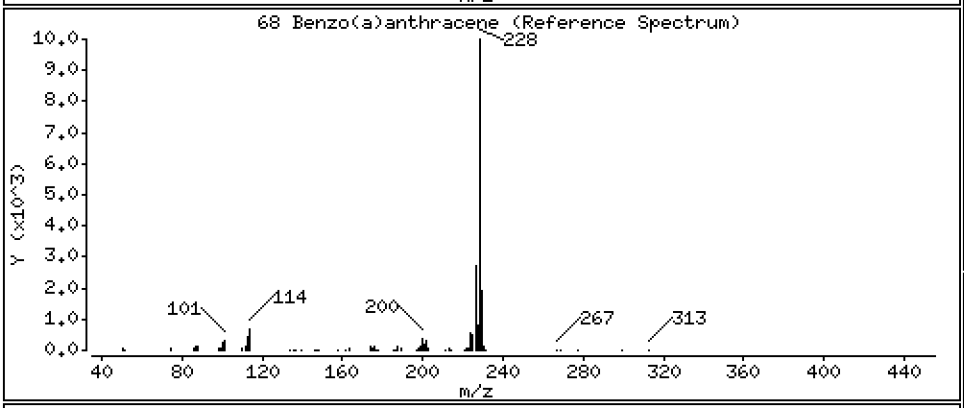
Concentration: 4.552 ug/mL

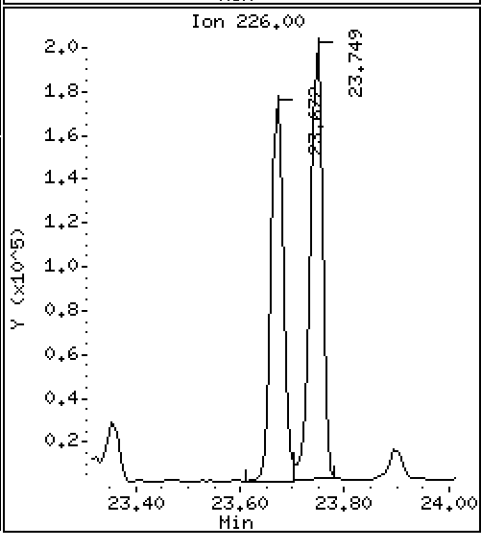


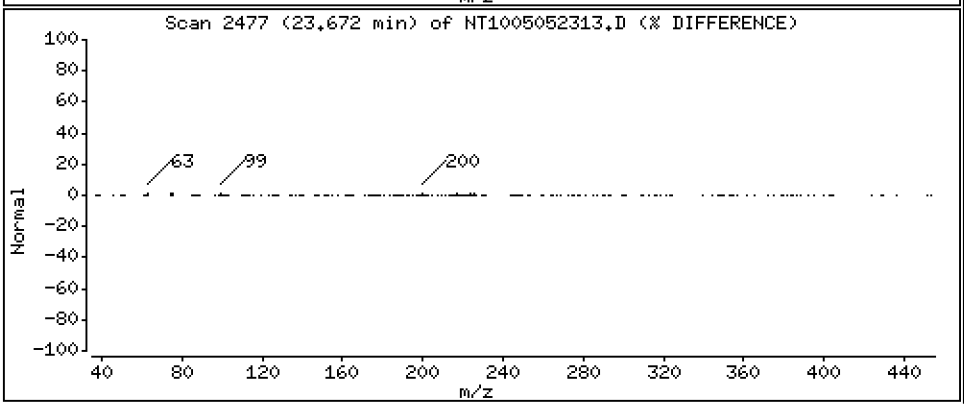












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

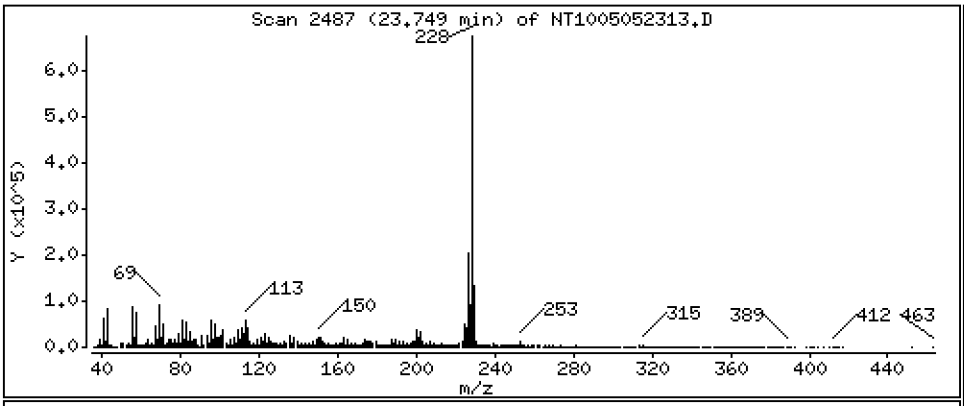
Operator: VTS

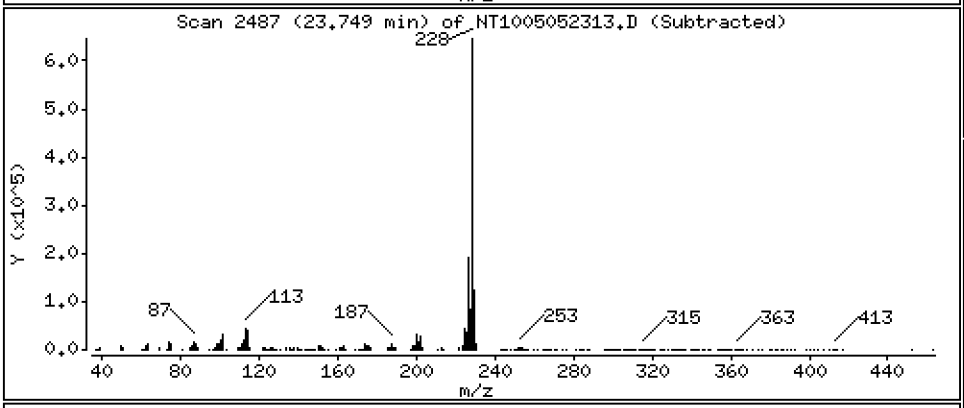
Column phase: ZB-5msi

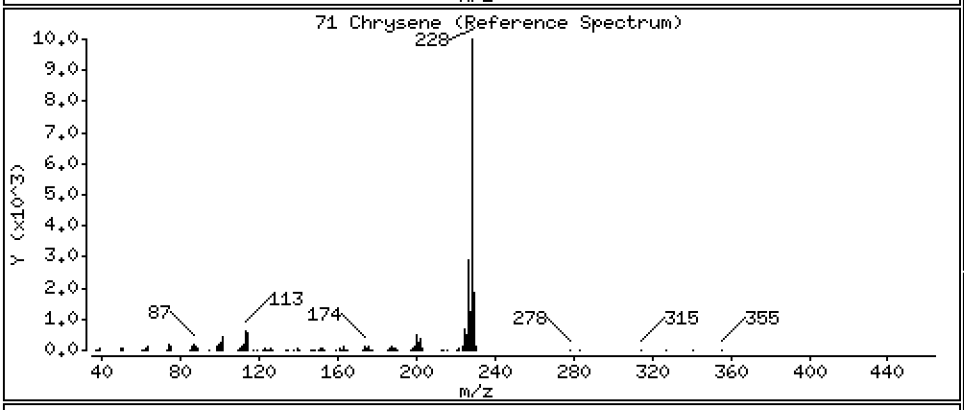
Column diameter: 0.25

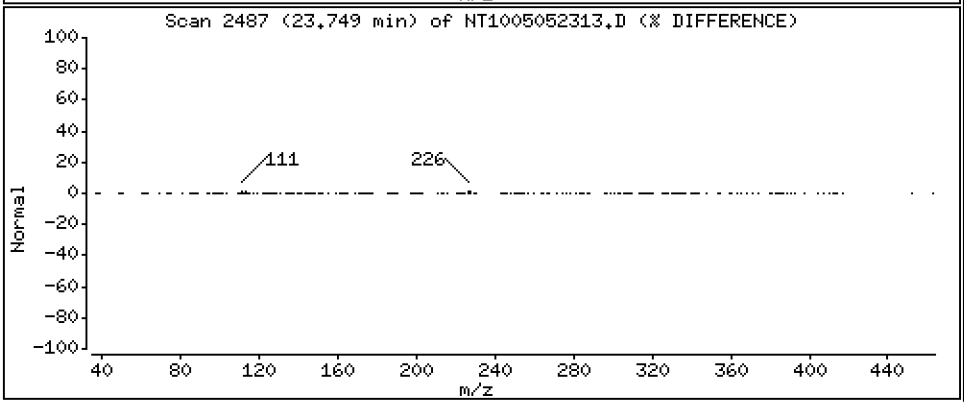
71 Chrysene

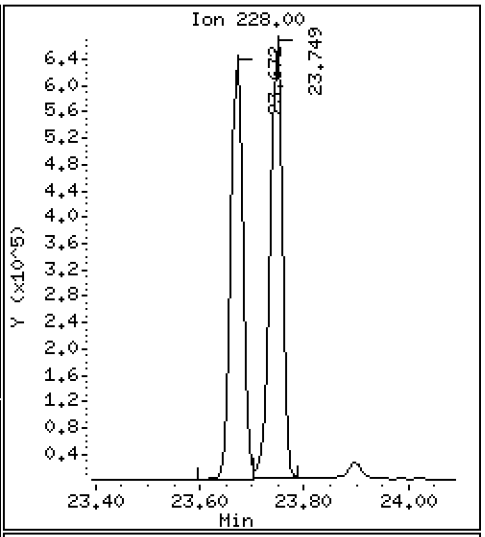
Concentration: 5.256 ug/mL

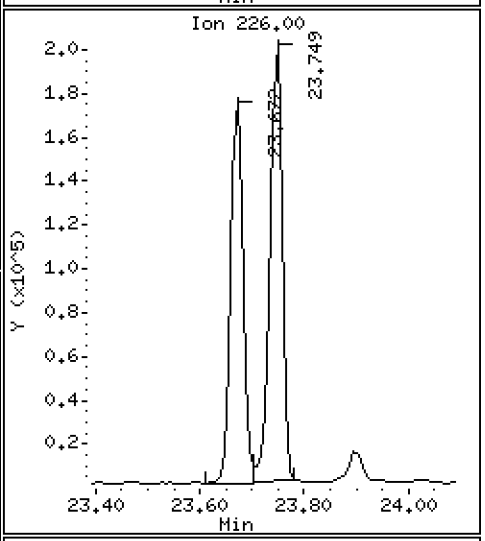


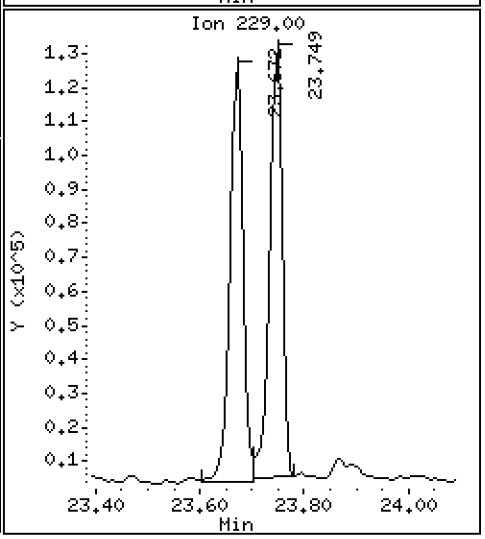












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

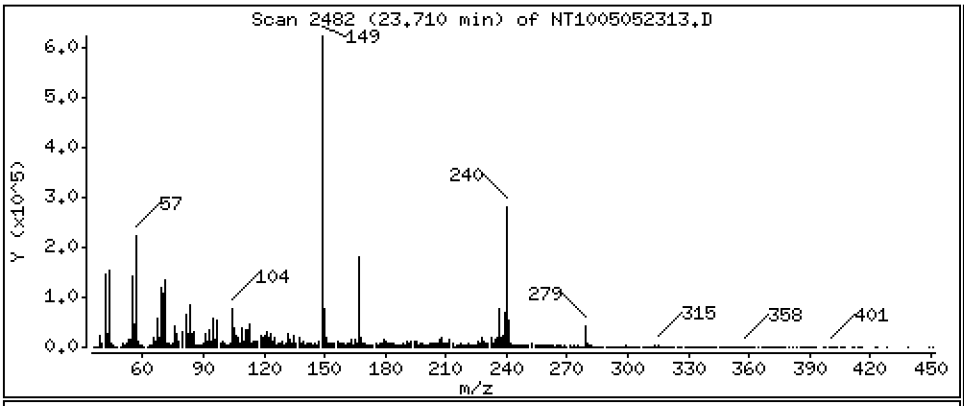
Operator: VTS

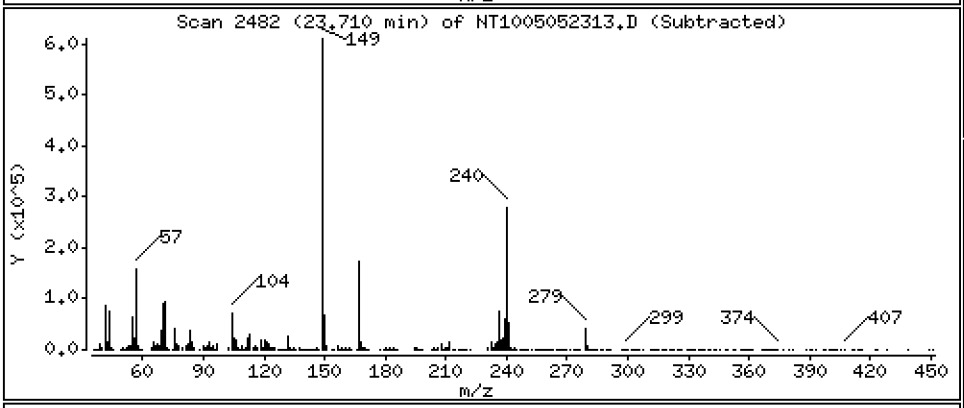
Column phase: ZB-5msi

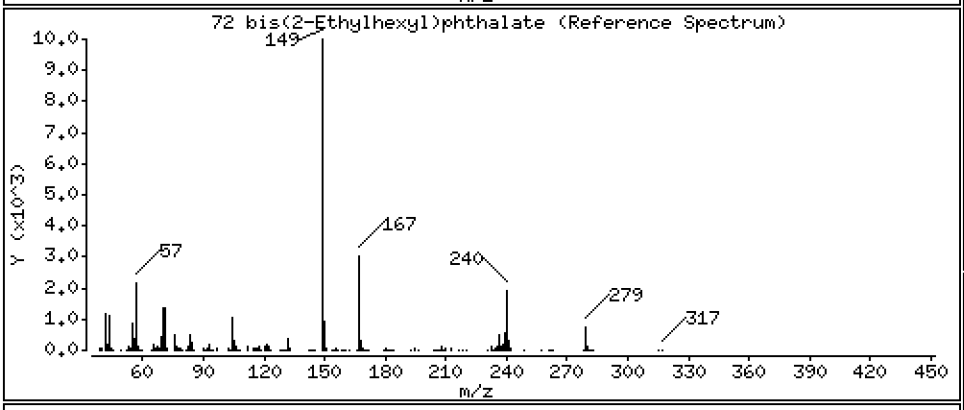
Column diameter: 0.25

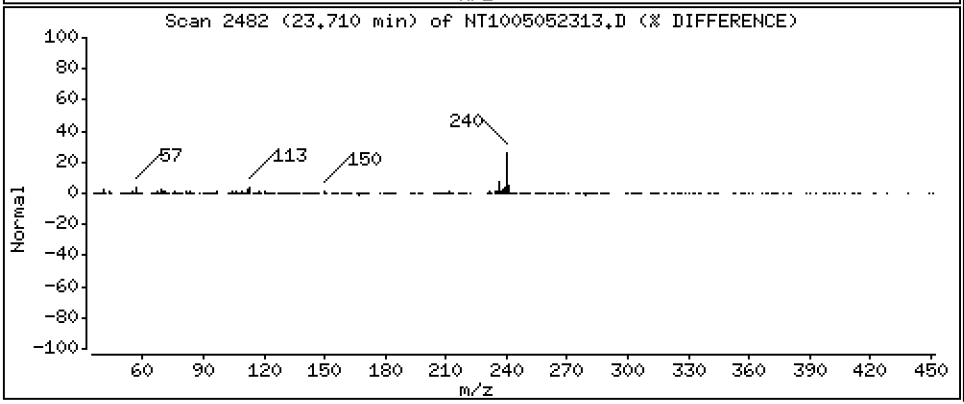
72 bis(2-Ethylhexyl)phthalate

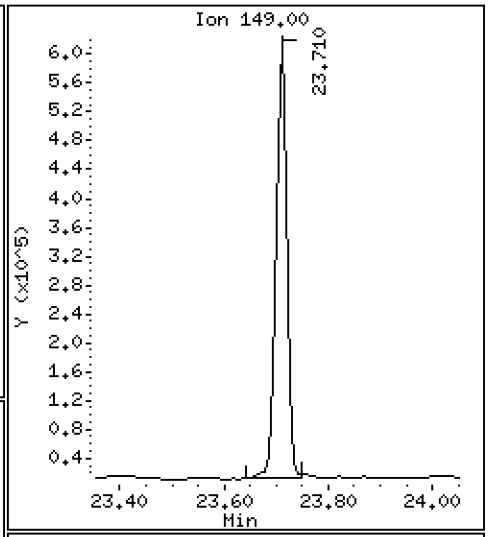
Concentration: 5.627 ug/mL

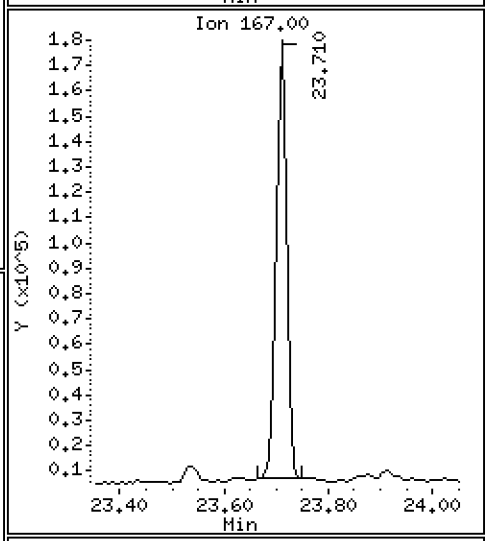


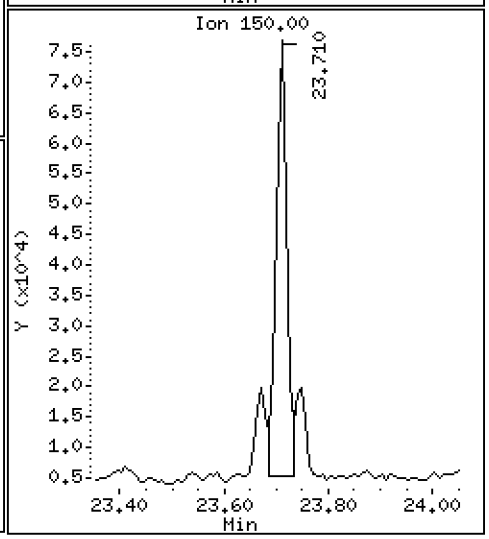












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

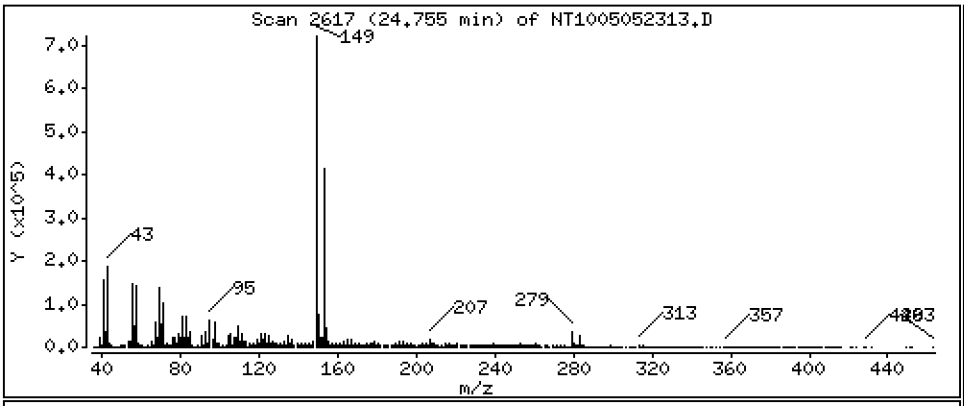
Operator: VTS

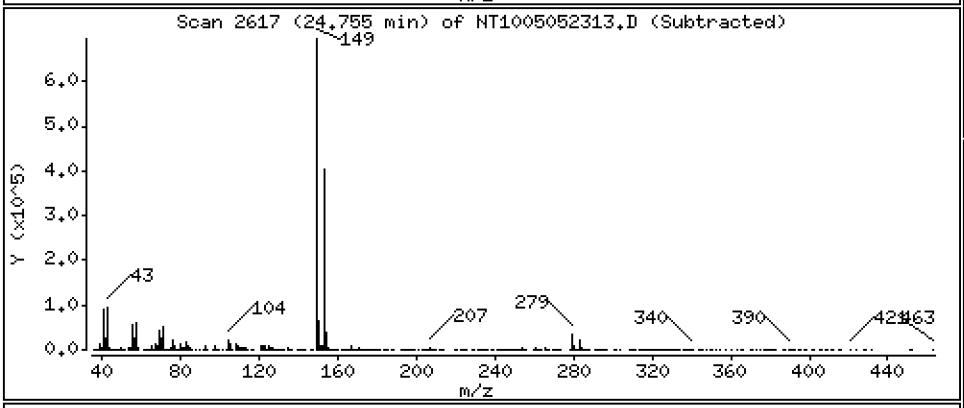
Column phase: ZB-5msi

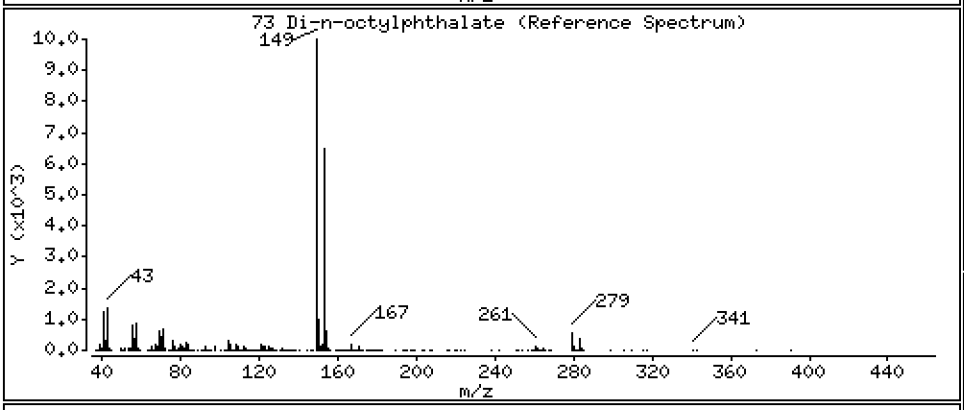
Column diameter: 0.25

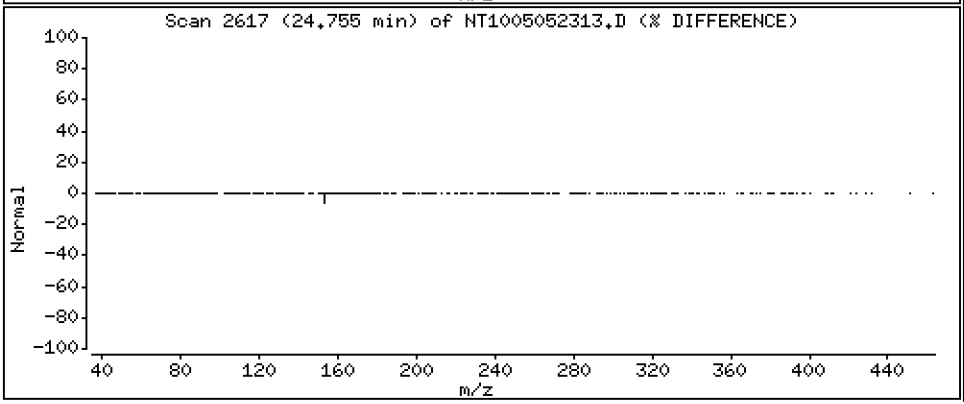
73 Di-n-octylphthalate

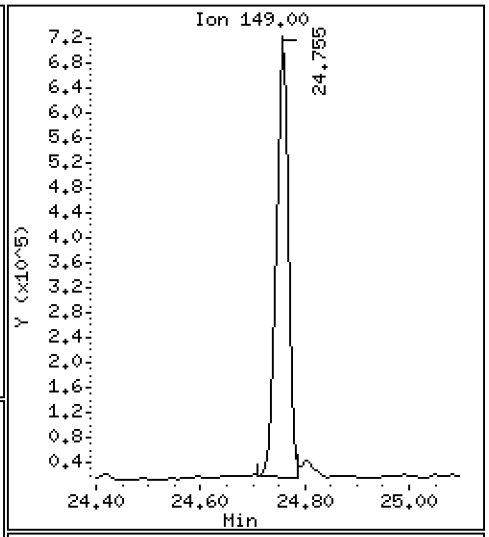
Concentration: 3.961 ug/mL

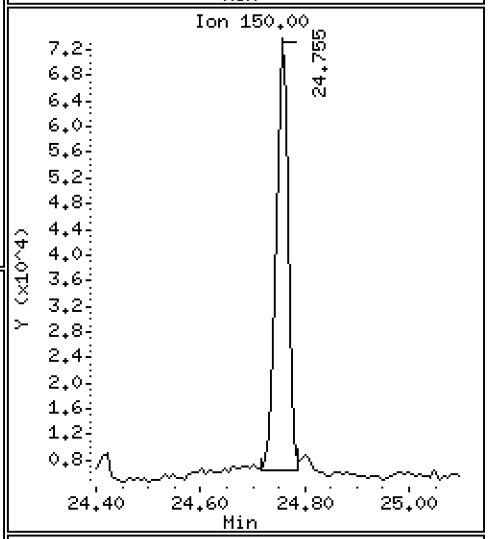


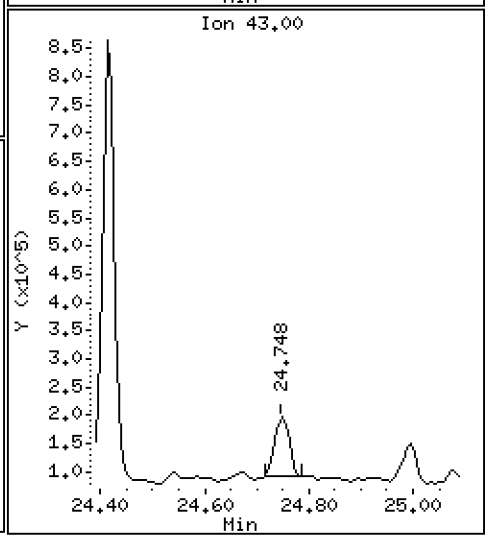












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

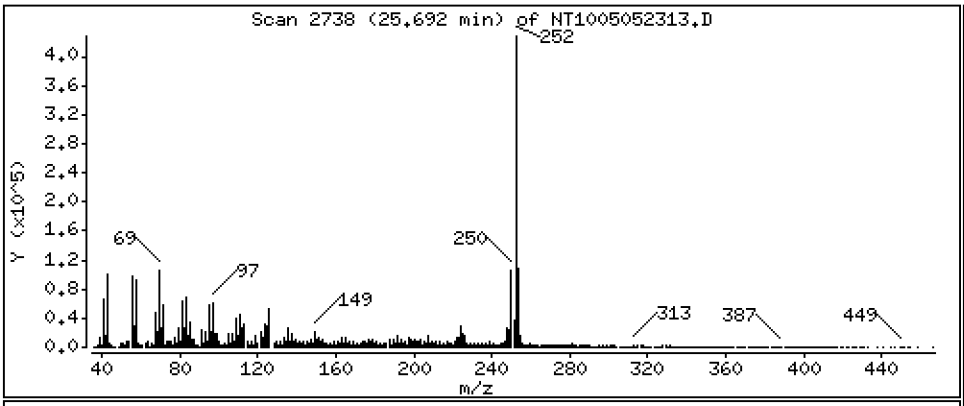
Operator: VTS

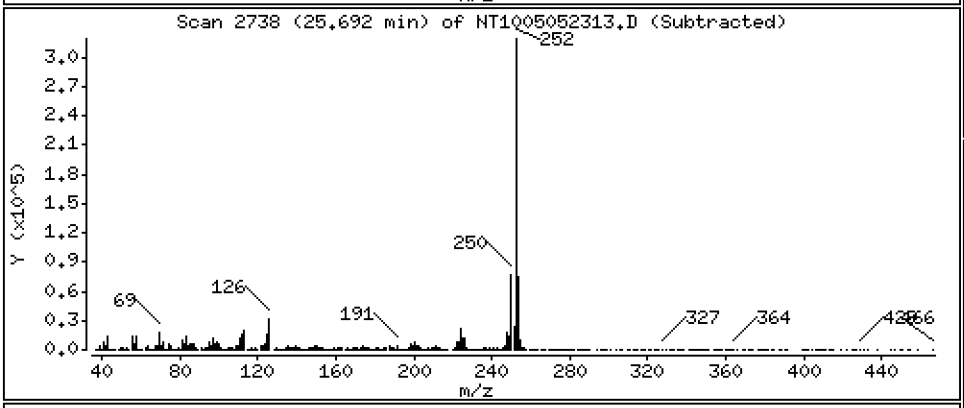
Column phase: ZB-5msi

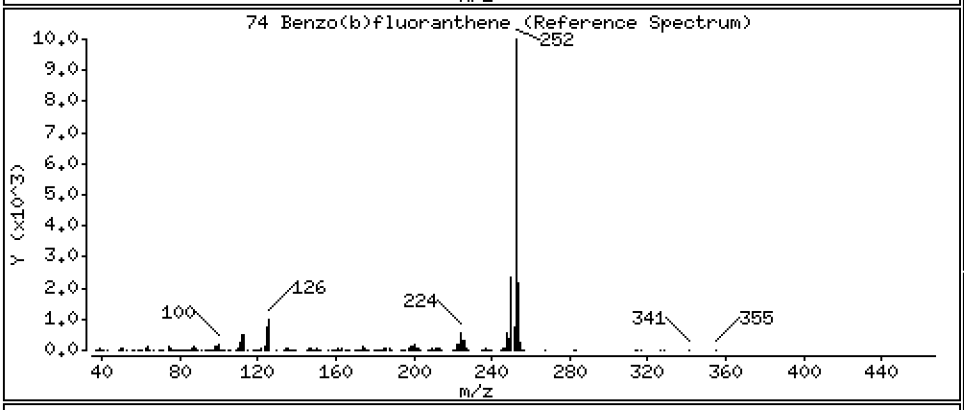
Column diameter: 0.25

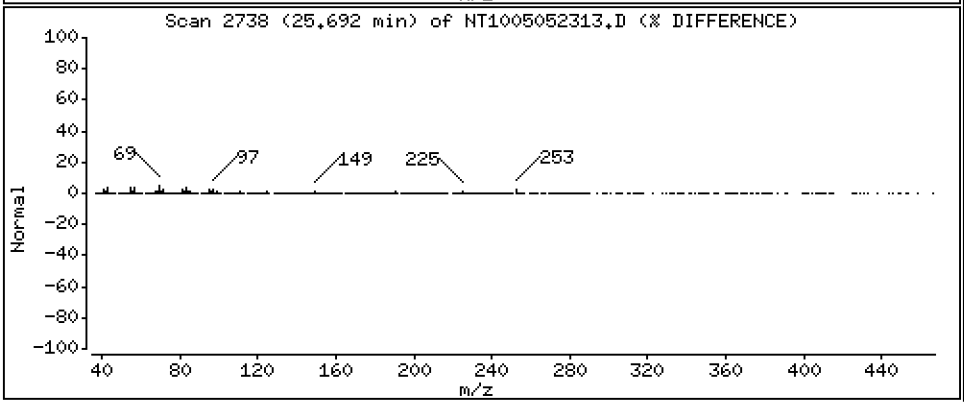
74 Benzo(b)fluoranthene

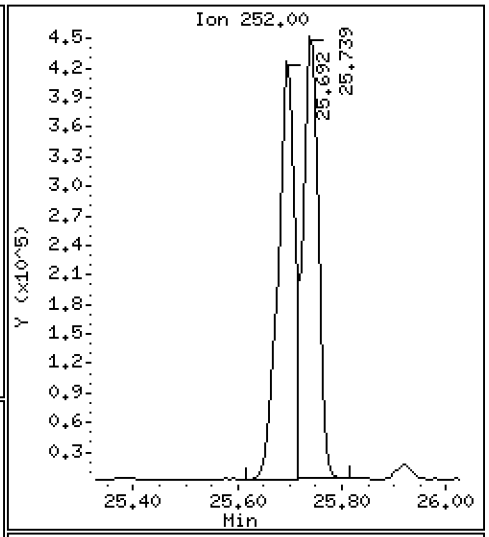
Concentration: 5.341 ug/mL

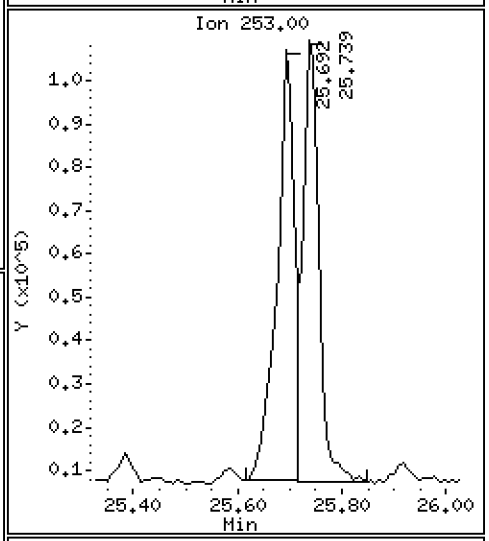


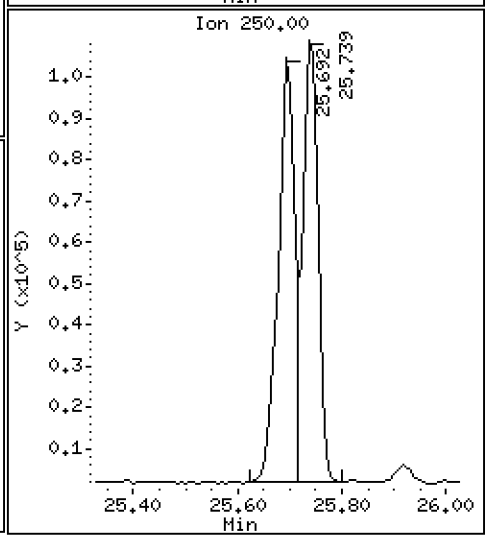












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

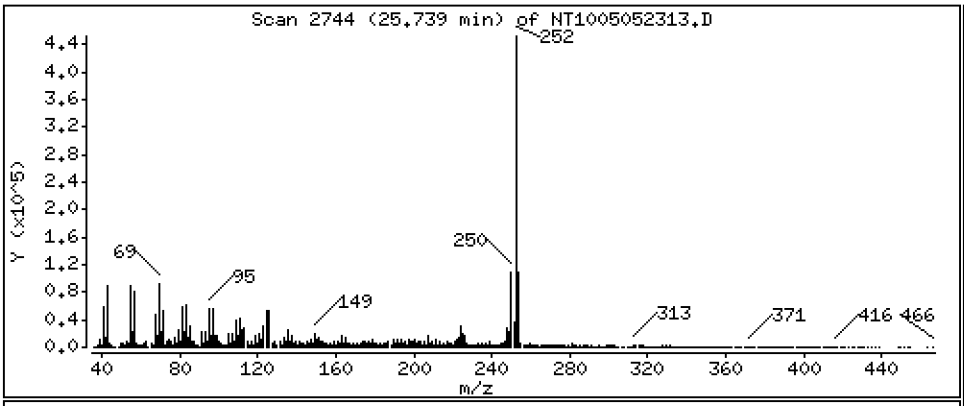
Operator: VTS

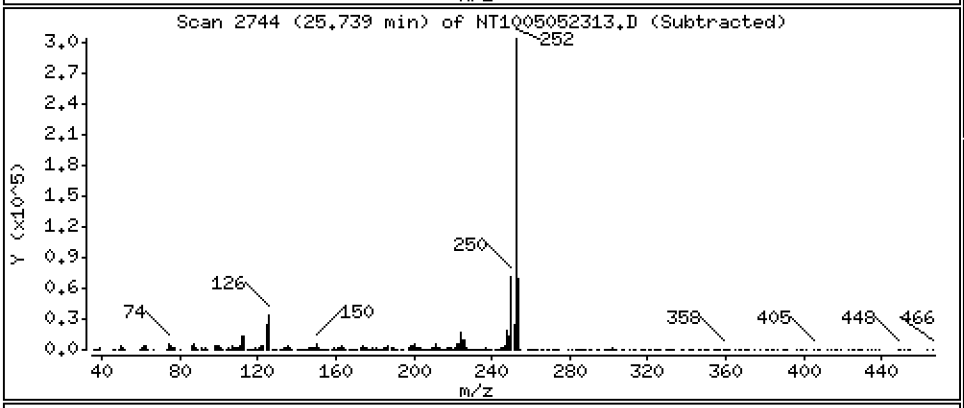
Column phase: ZB-5msi

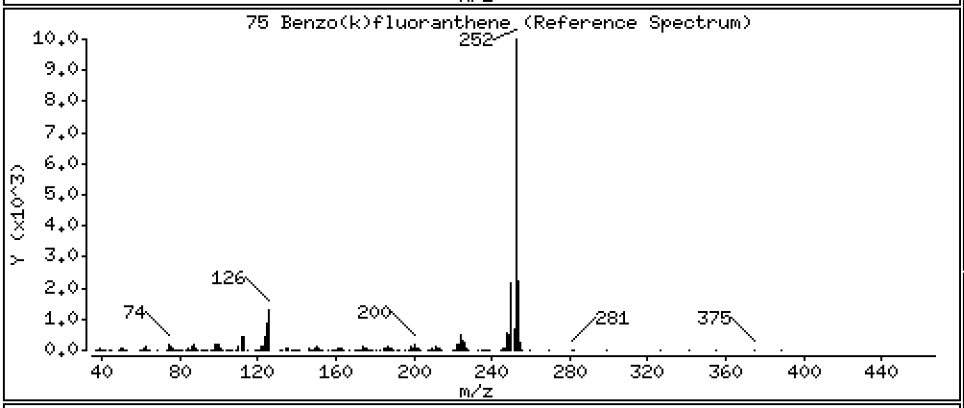
Column diameter: 0.25

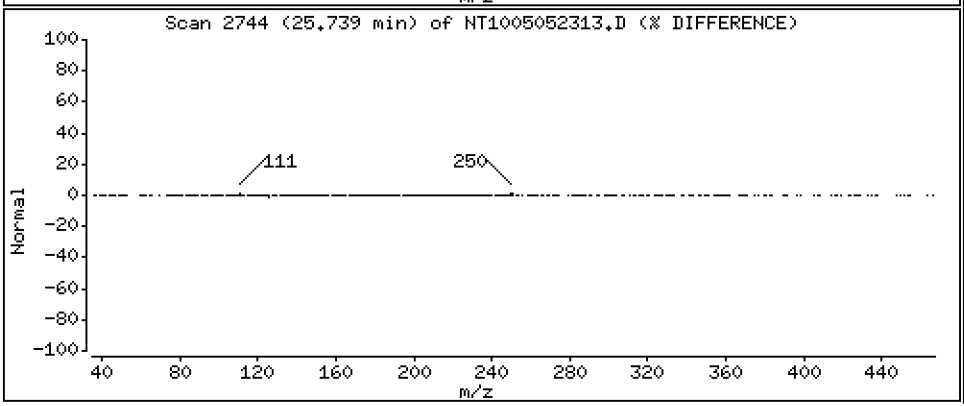
75 Benzo(k)fluoranthene

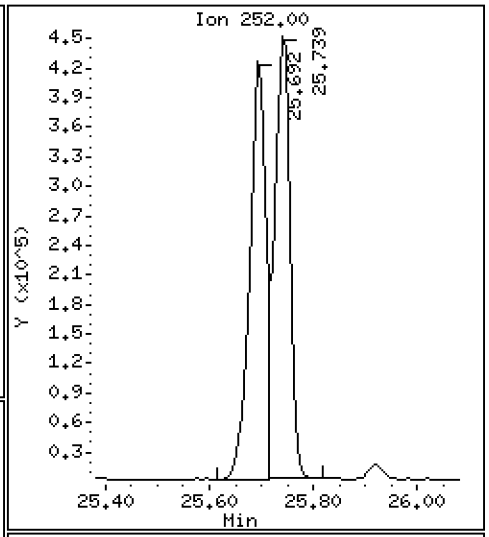
Concentration: 5.255 ug/mL

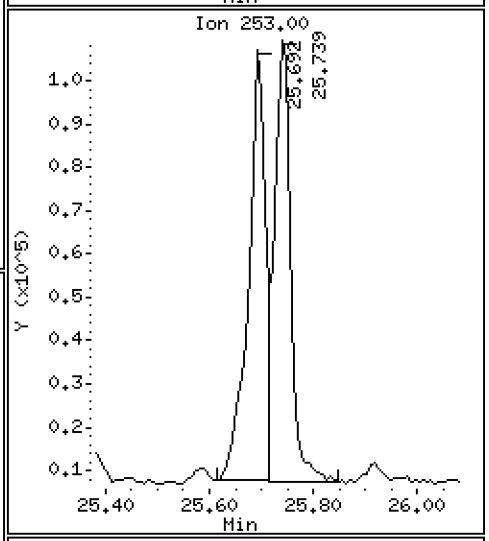


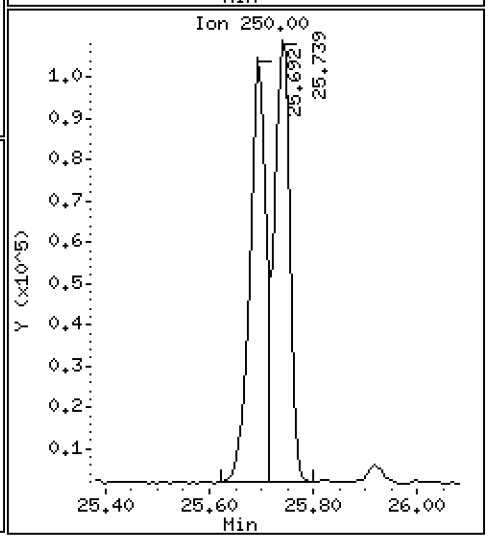












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

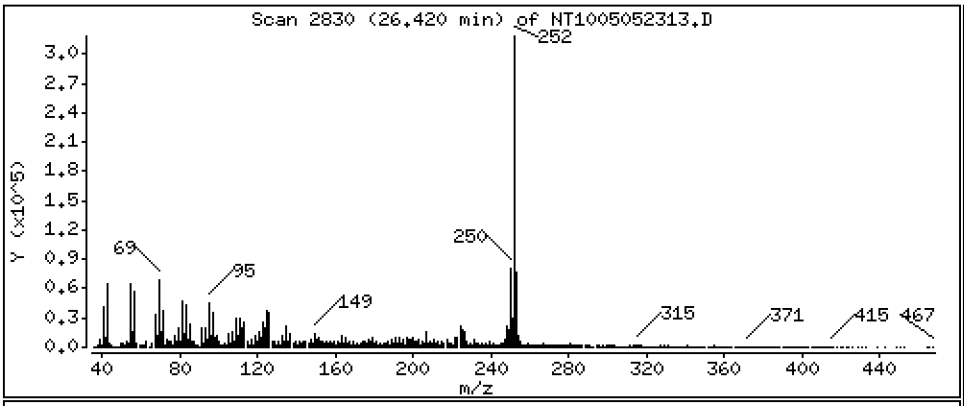
Operator: VTS

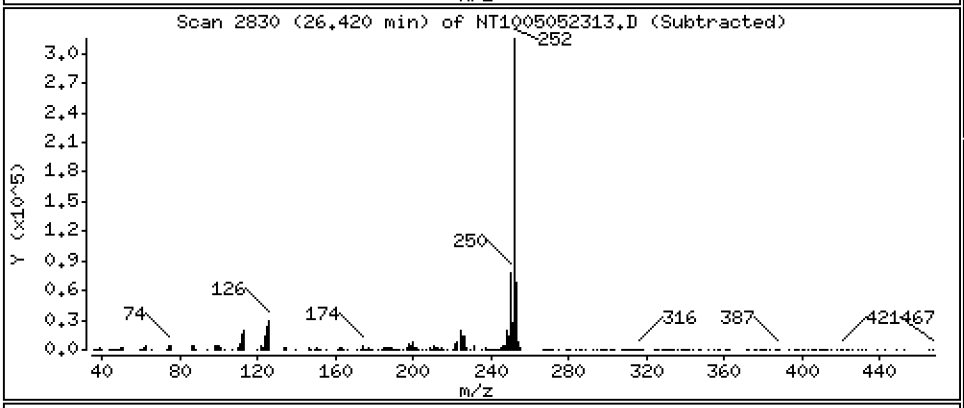
Column phase: ZB-5msi

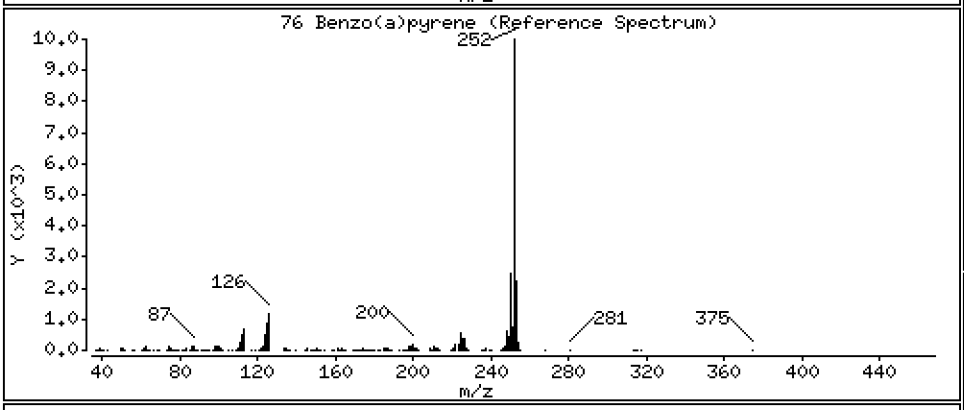
Column diameter: 0.25

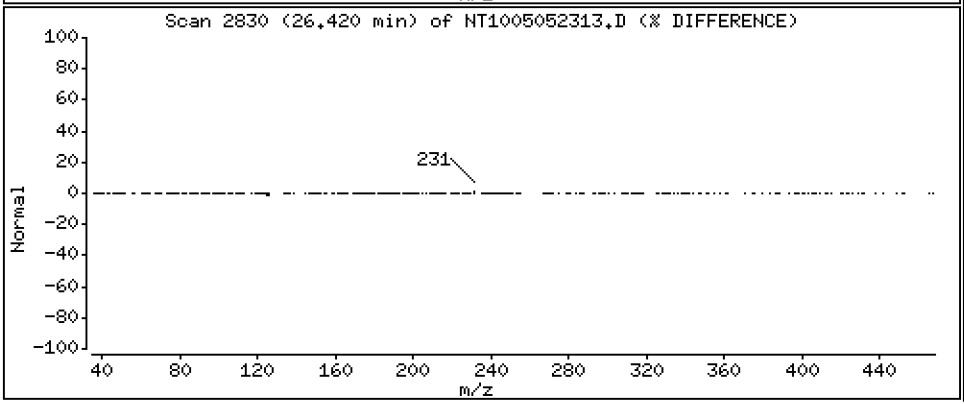
76 Benzo(a)pyrene

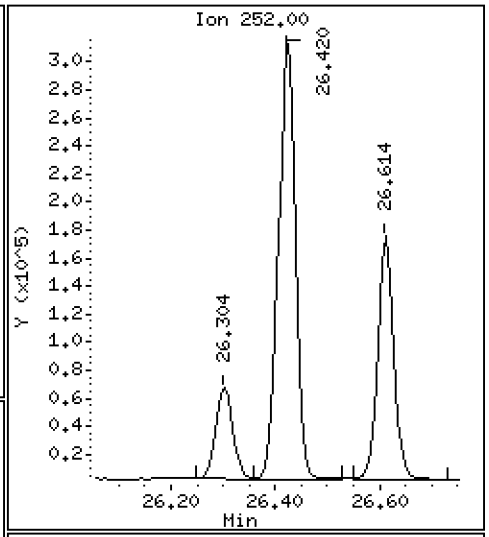
Concentration: 4.683 ug/mL

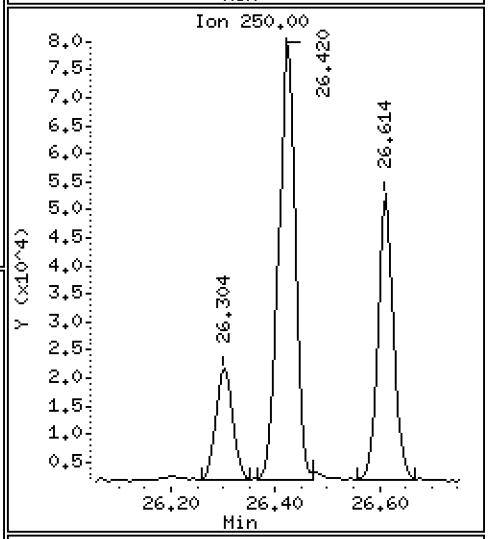


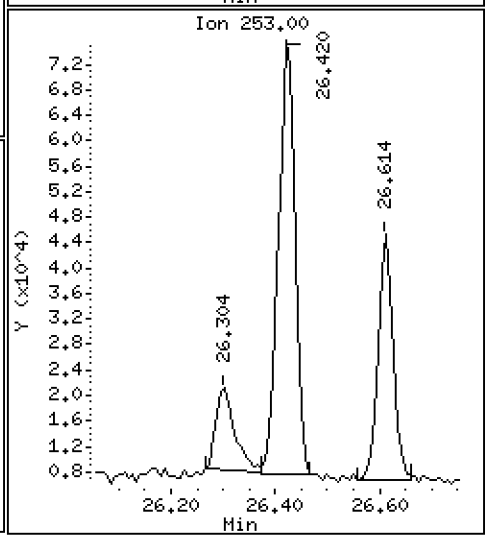












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

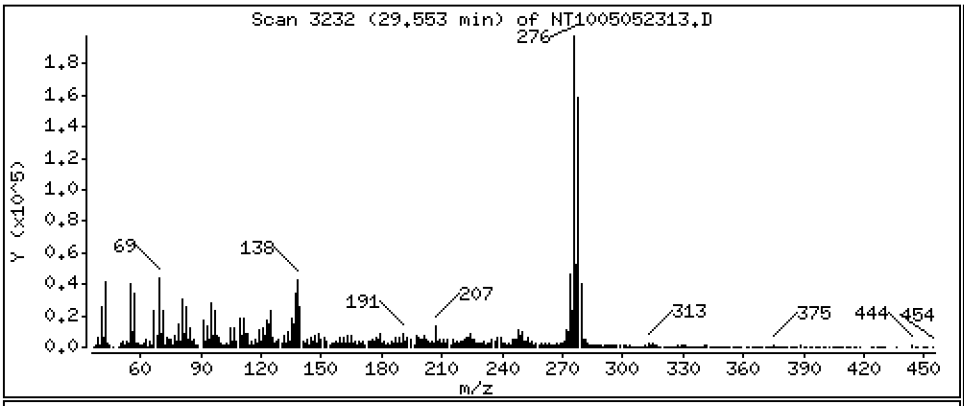
Operator: VTS

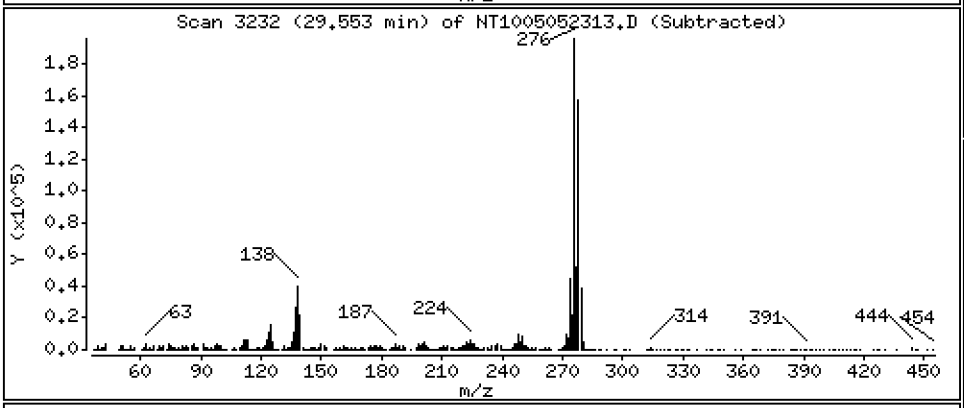
Column phase: ZB-5msi

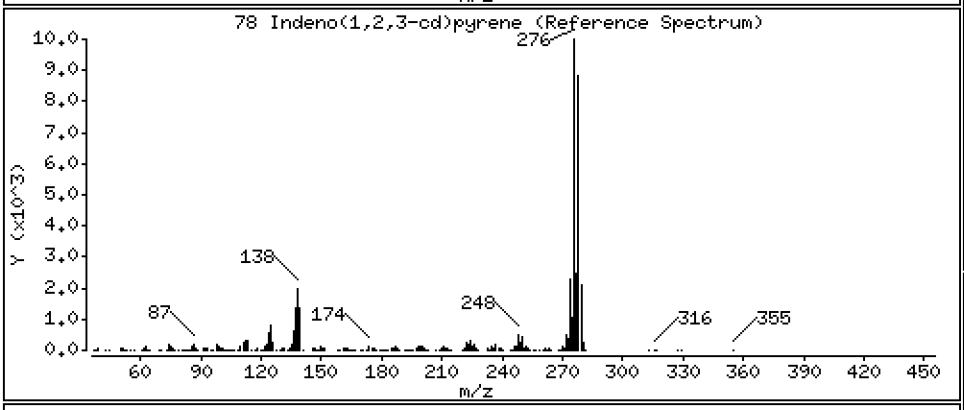
Column diameter: 0.25

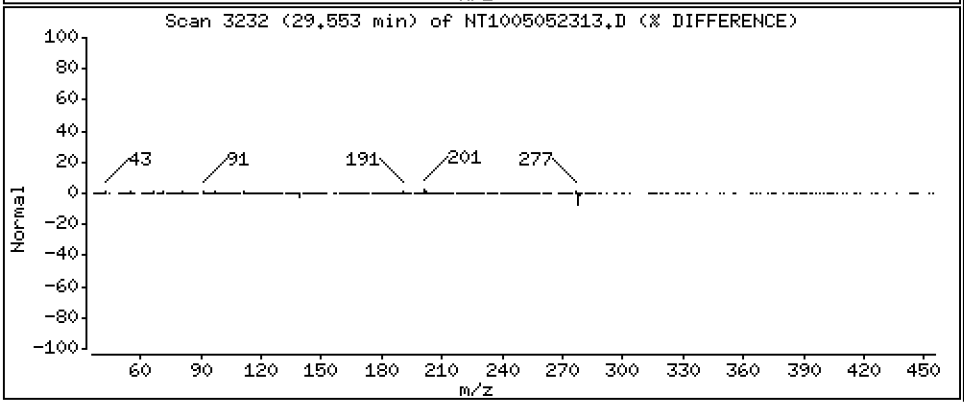
78 Indeno(1,2,3-cd)pyrene

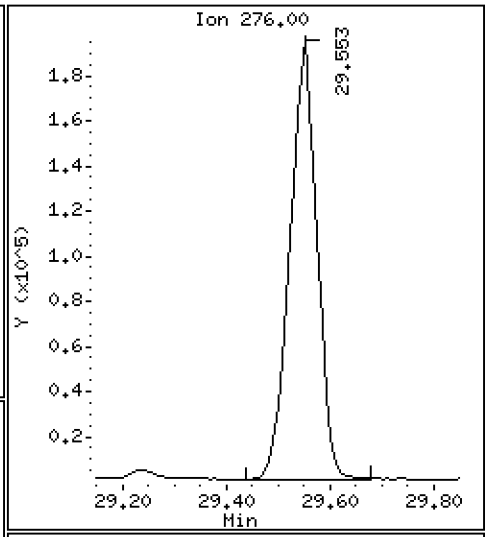
Concentration: 3.936 ug/mL

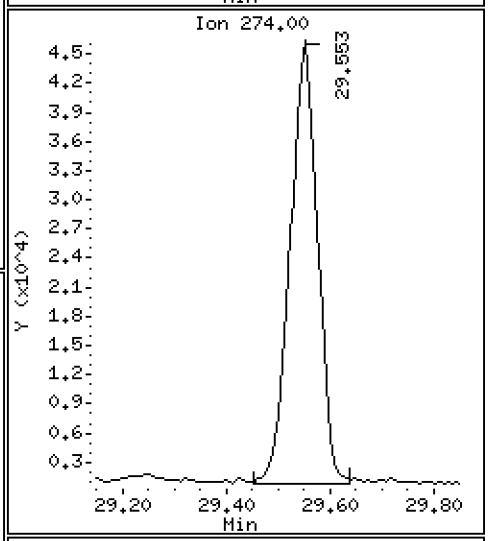


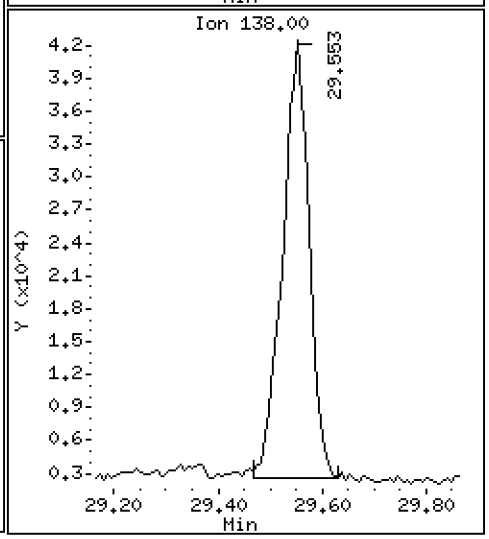












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

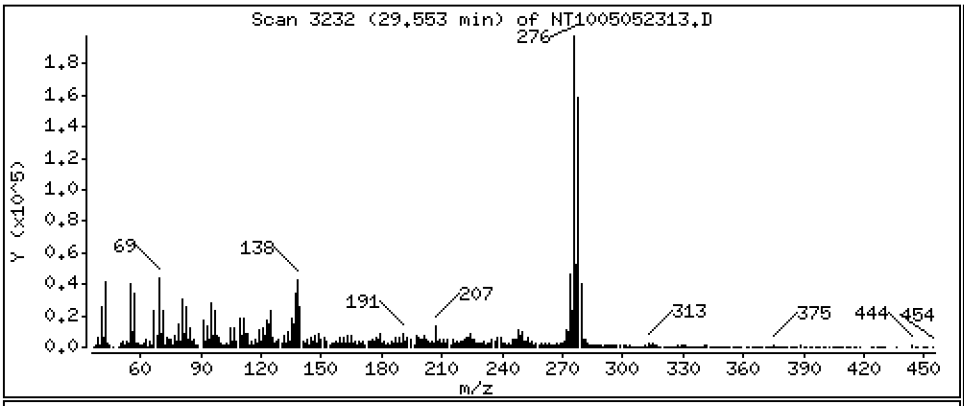
Operator: VTS

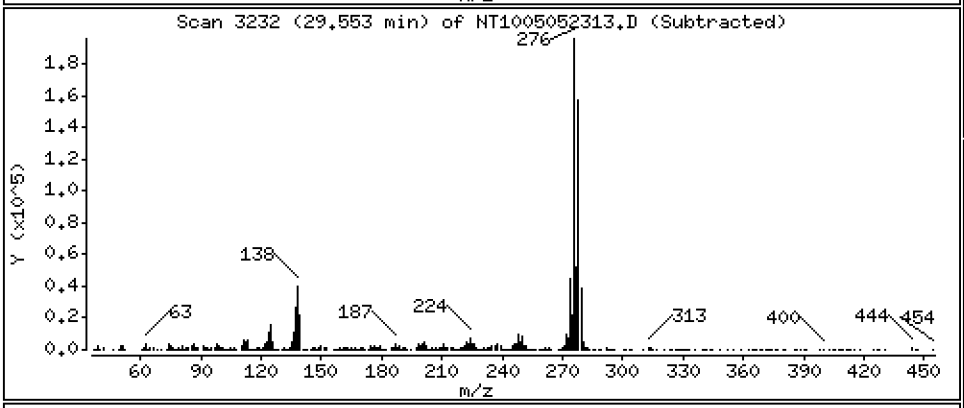
Column phase: ZB-5msi

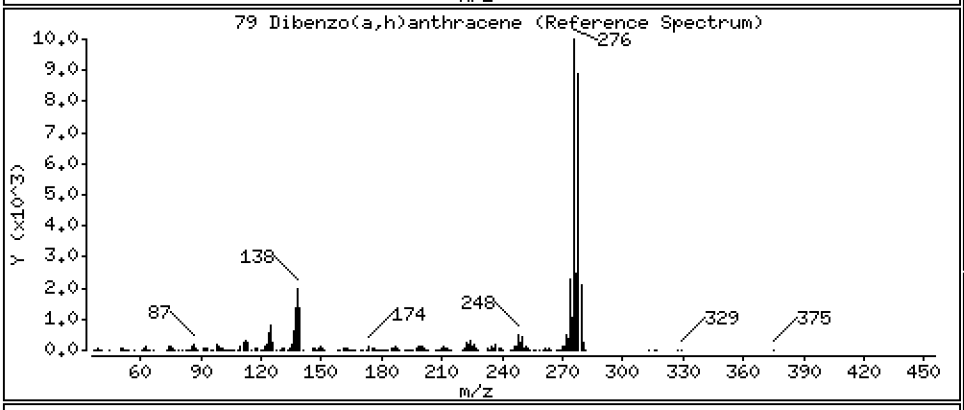
Column diameter: 0.25

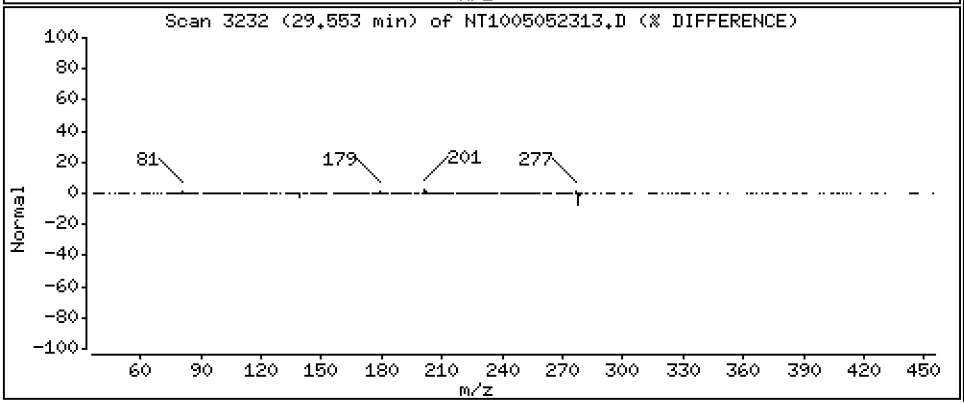
79 Dibenzo(a,h)anthracene

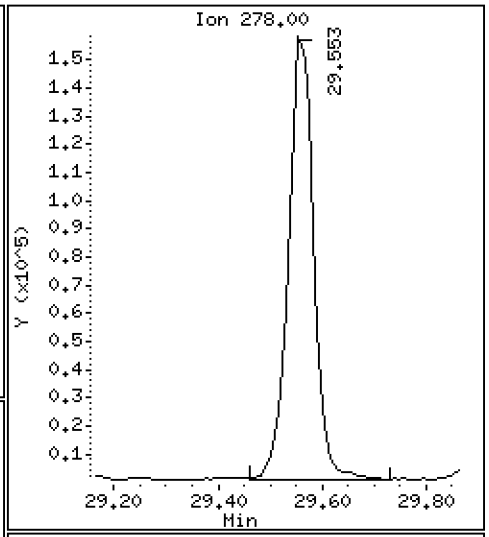
Concentration: 3.587 ug/mL

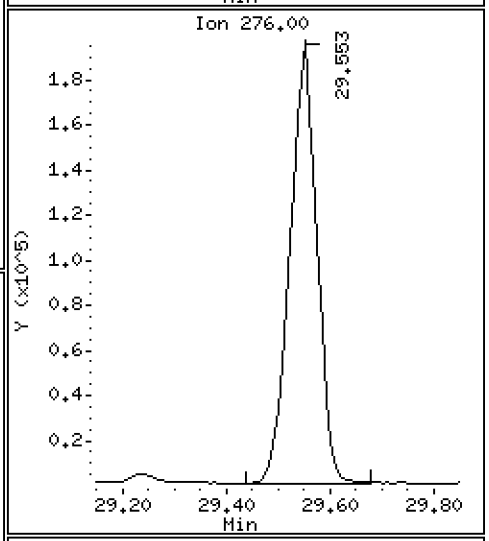


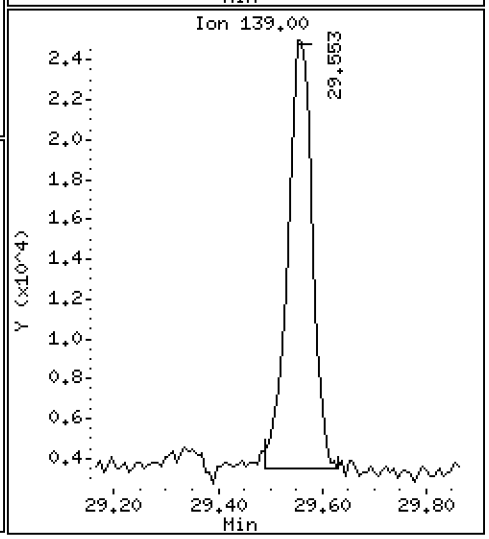












Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

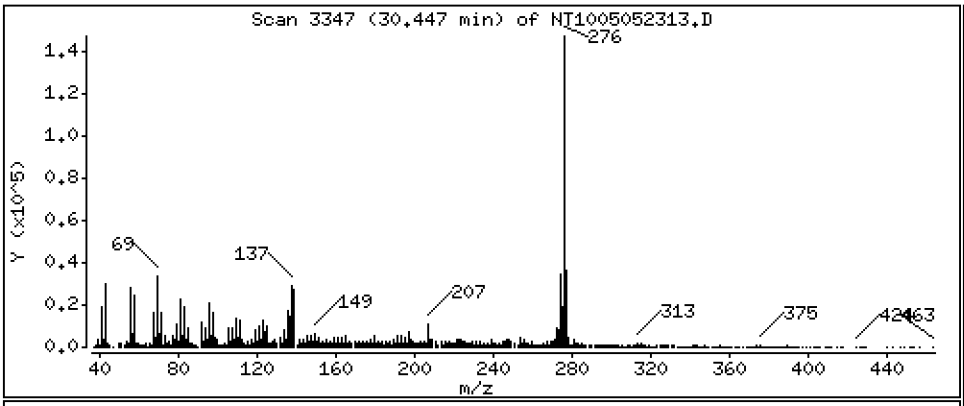
Operator: VTS

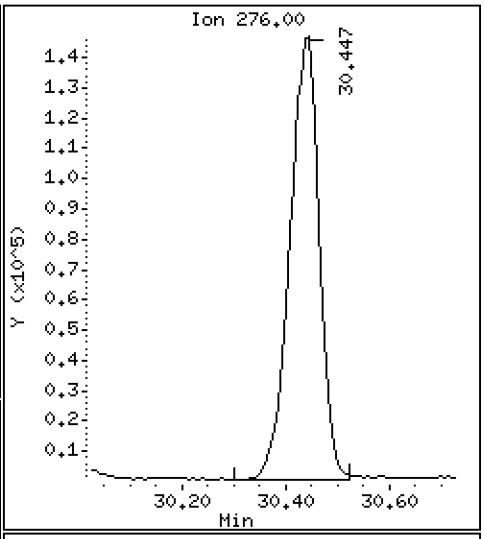
Column phase: ZB-5msi

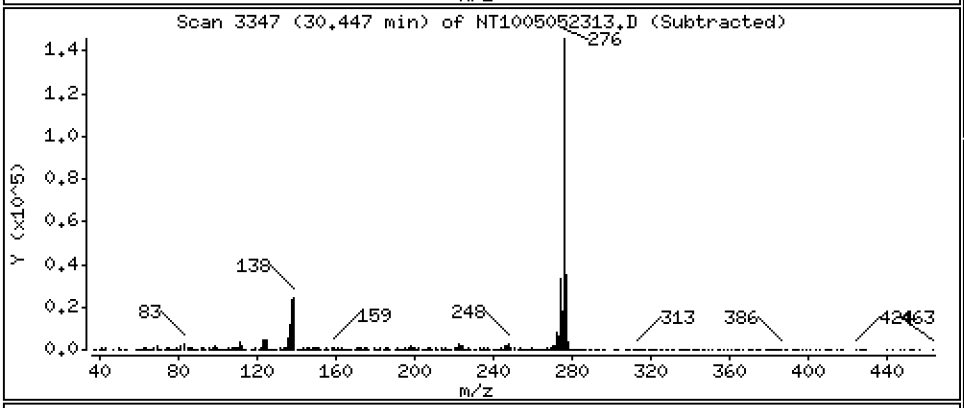
Column diameter: 0.25

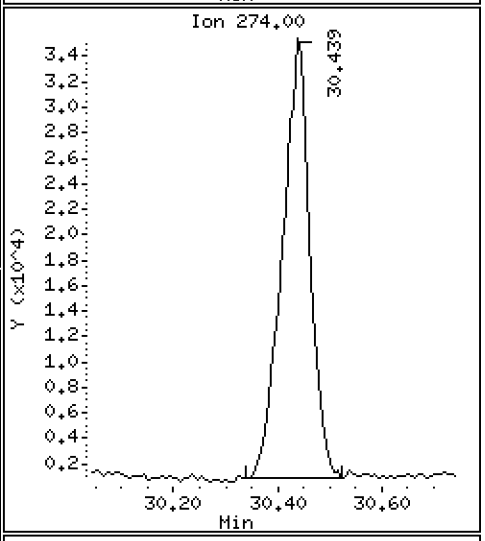
80 Benzo(g,h,i)perylene

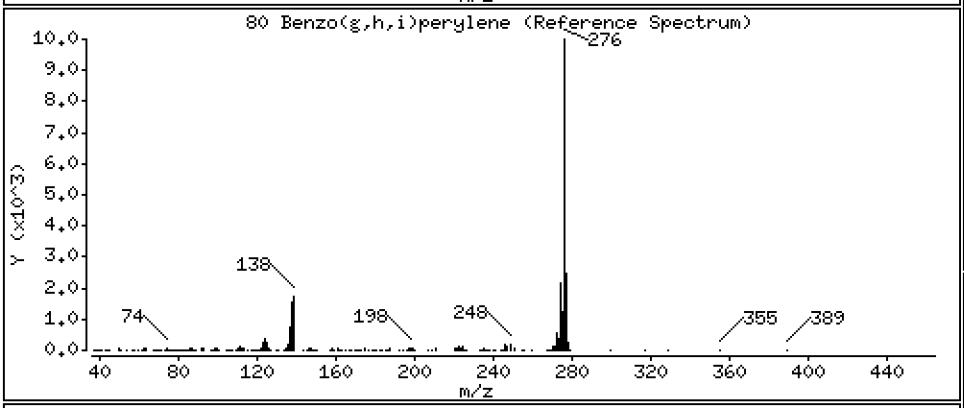
Concentration: 3.956 ug/mL

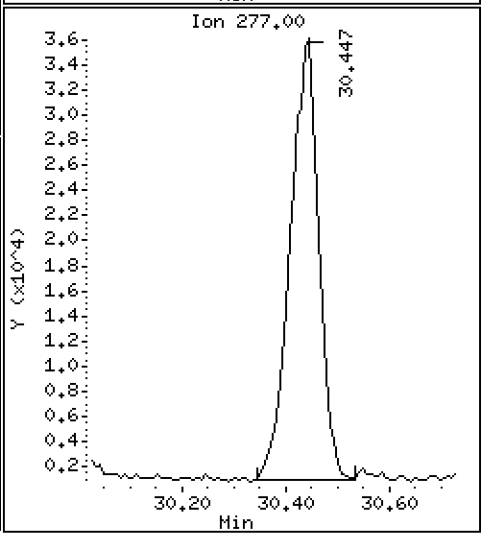


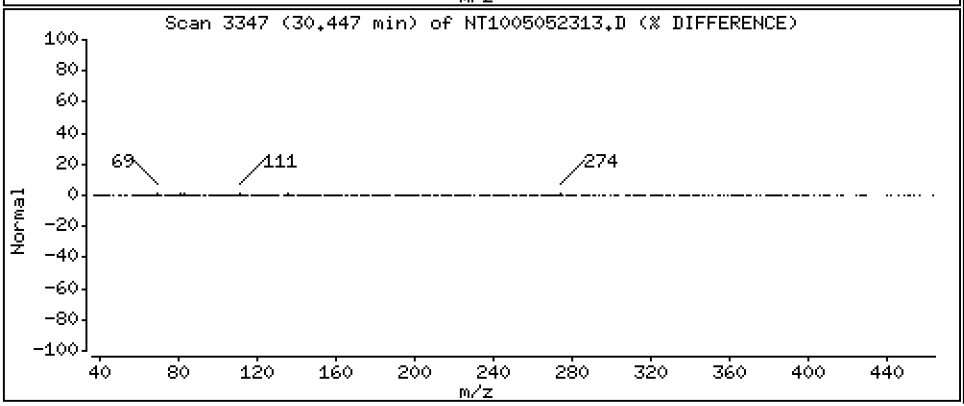












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

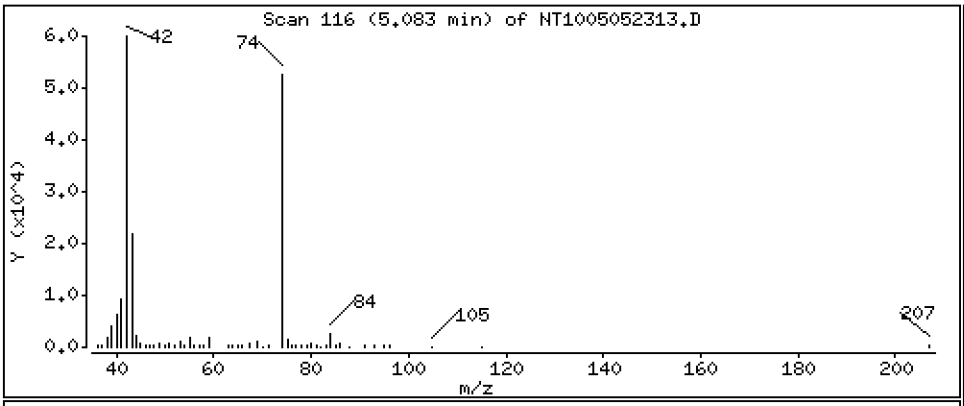
Operator: VTS

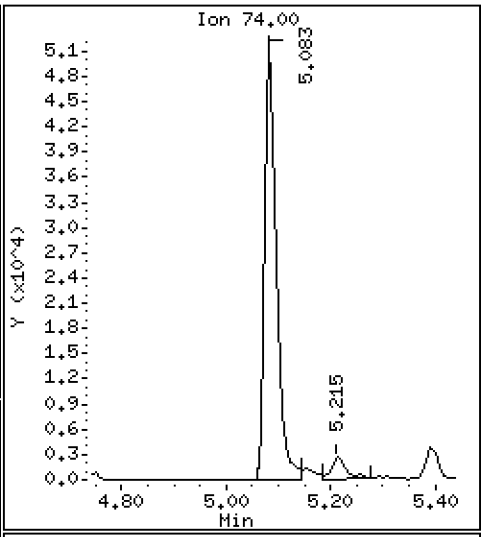
Column phase: ZB-5msi

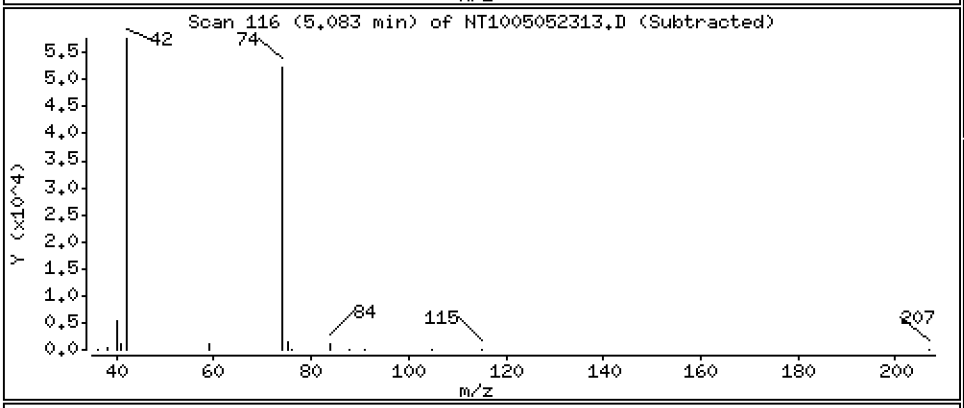
Column diameter: 0.25

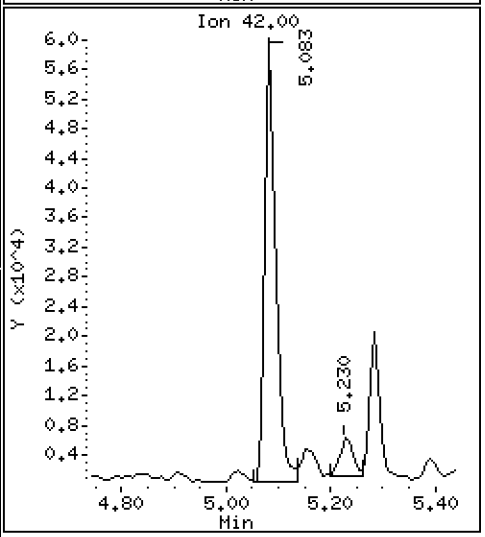
90 N-Nitrosodimethylamine

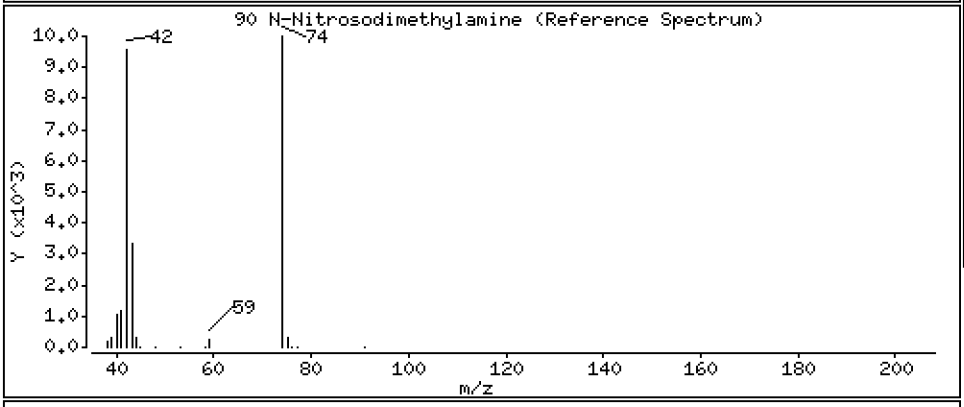
Concentration: 2.583 ug/mL

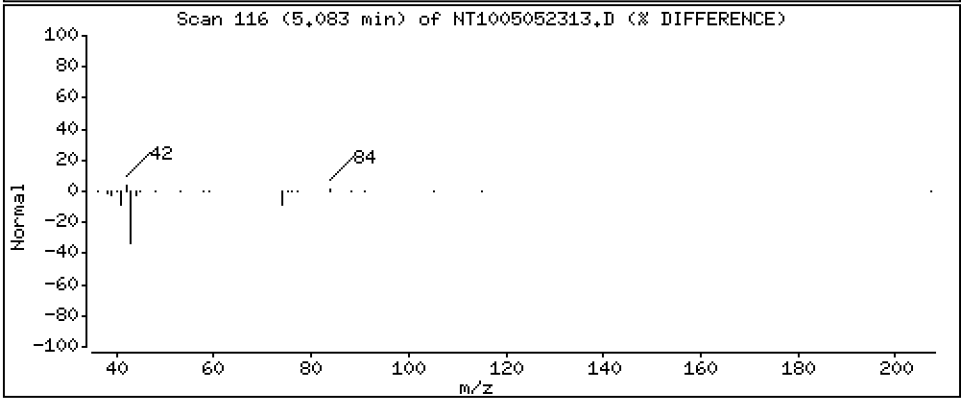












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

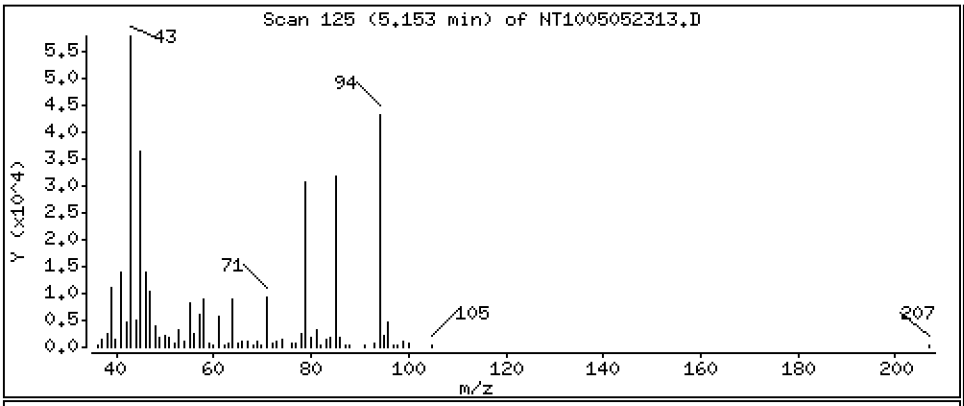
Operator: VTS

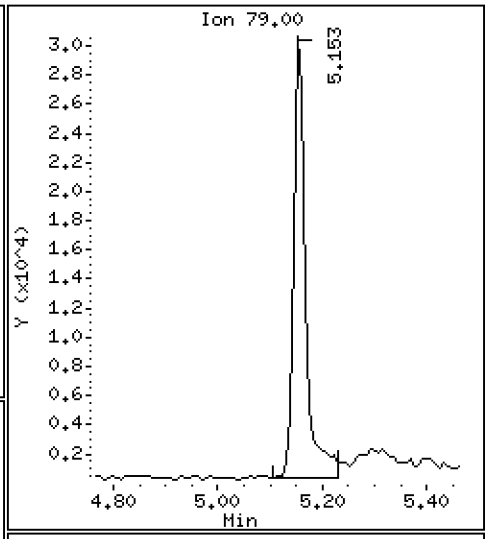
Column phase: ZB-5msi

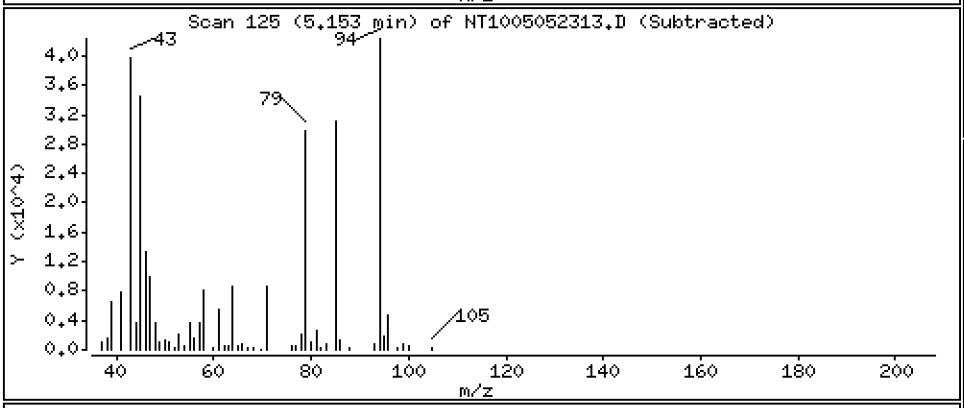
Column diameter: 0.25

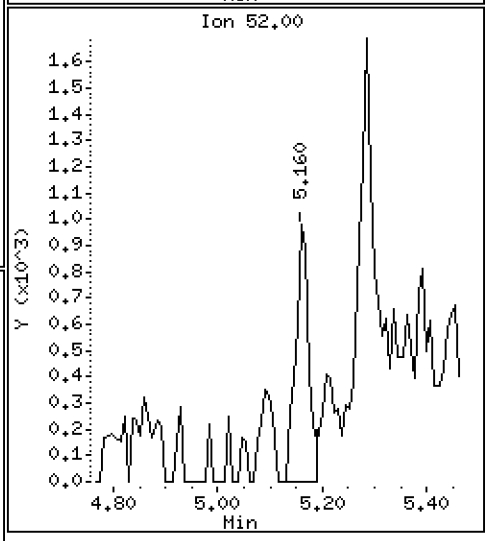
103 Pyridine

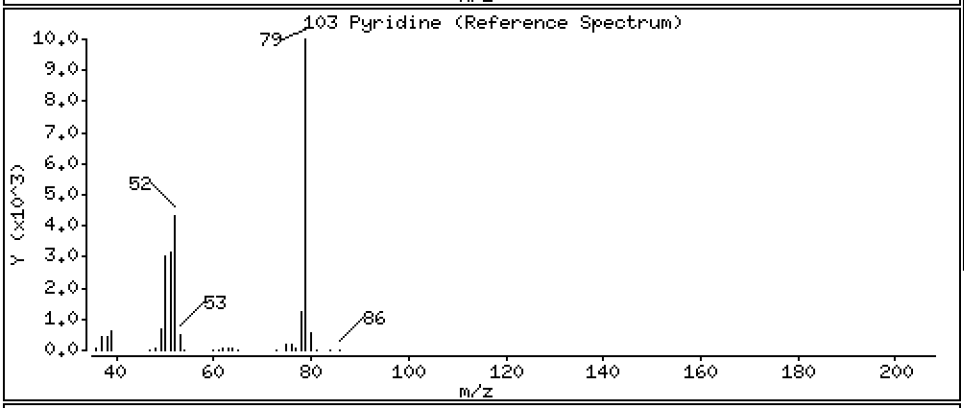
Concentration: 1.047 ug/mL

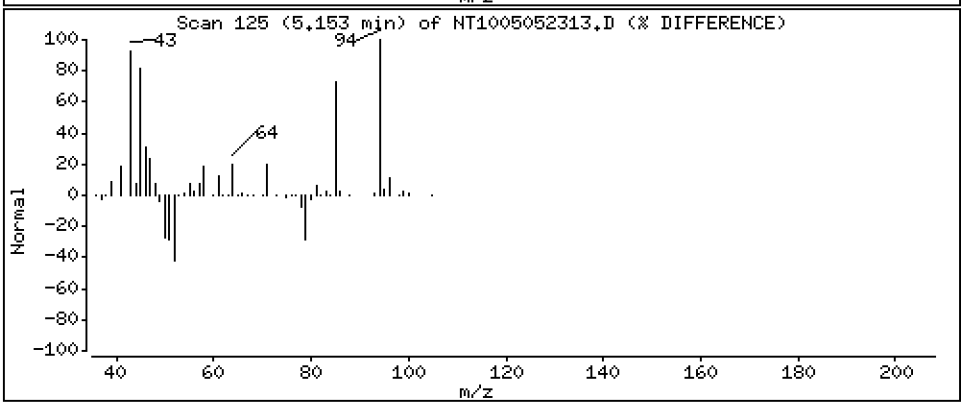












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

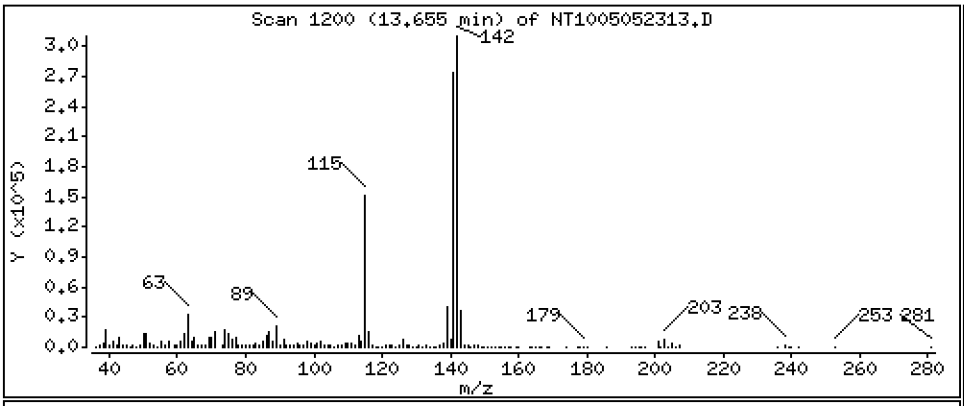
Operator: VTS

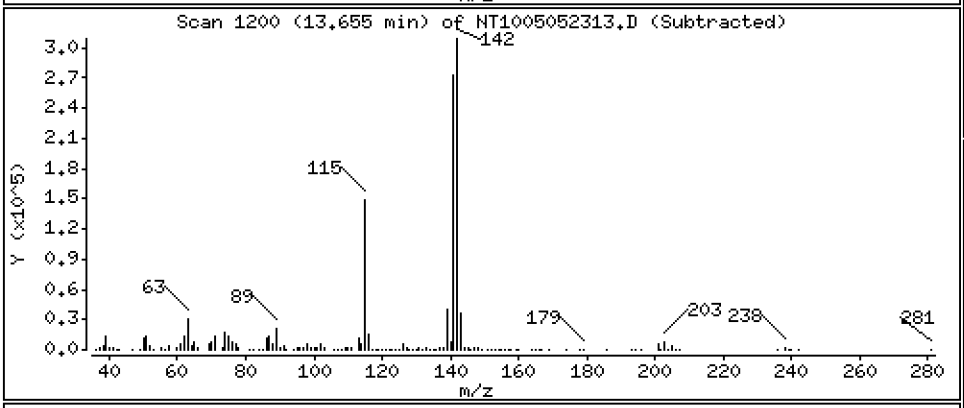
Column phase: ZB-5msi

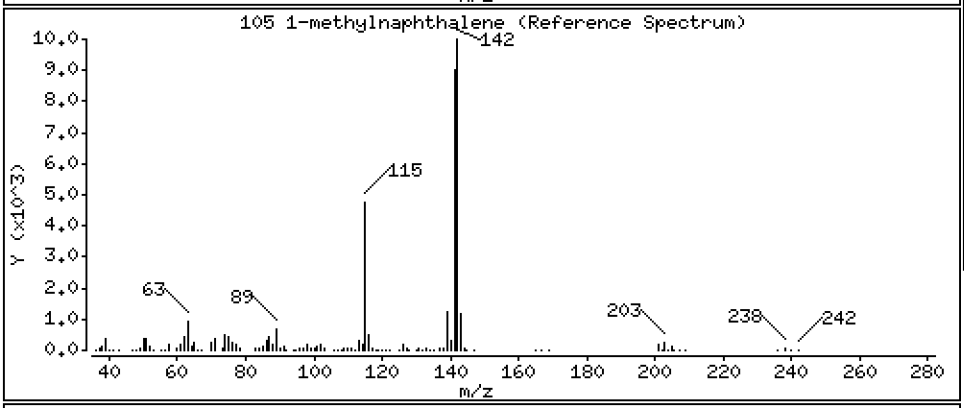
Column diameter: 0.25

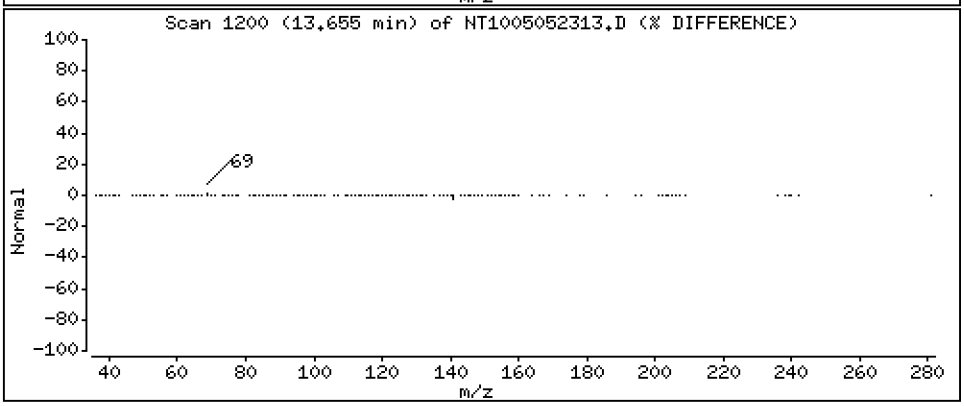
105 1-methylnaphthalene

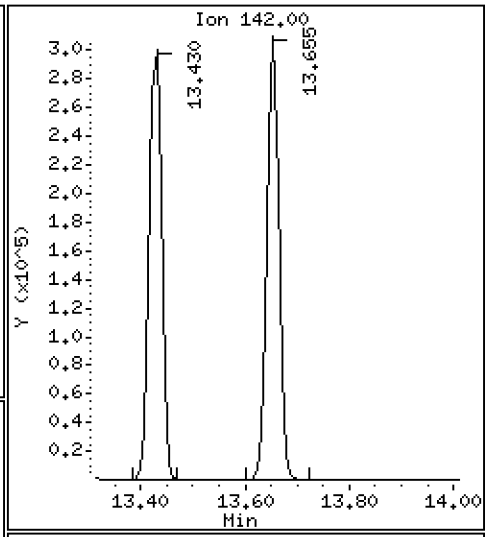
Concentration: 3.447 ug/mL

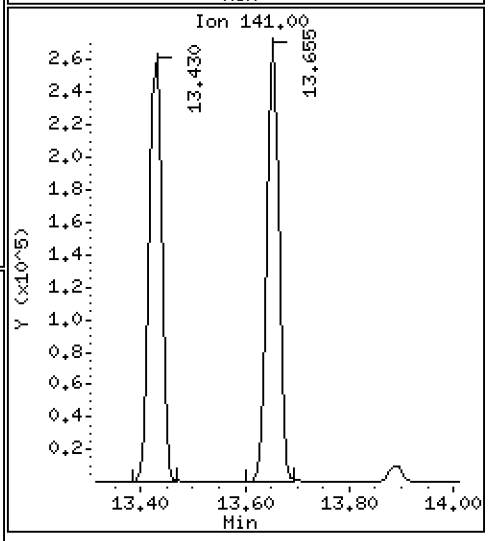












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

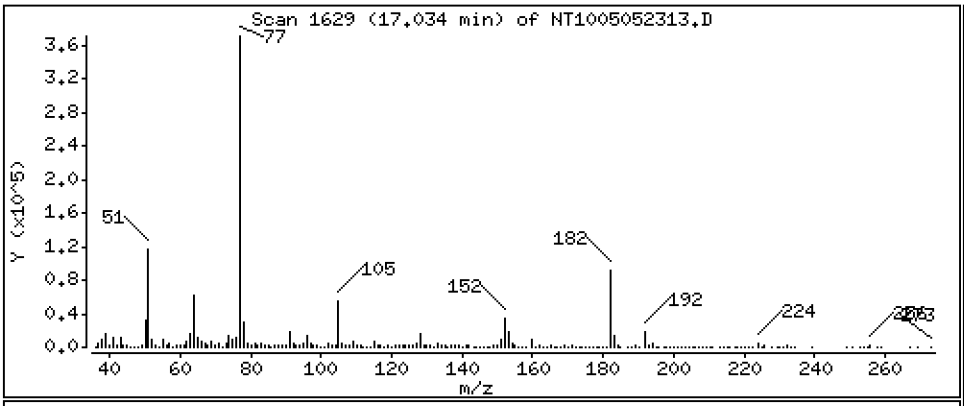
Operator: VTS

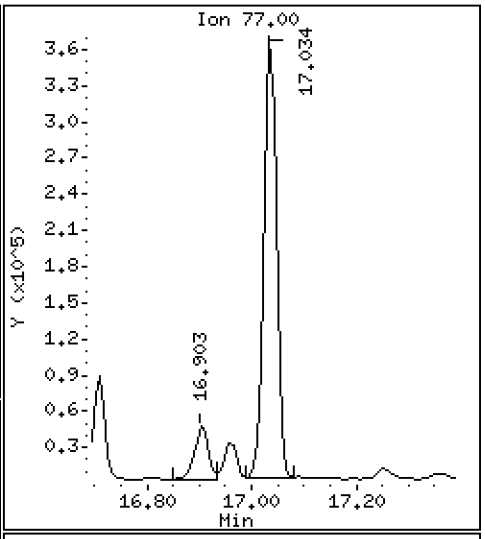
Column phase: ZB-5msi

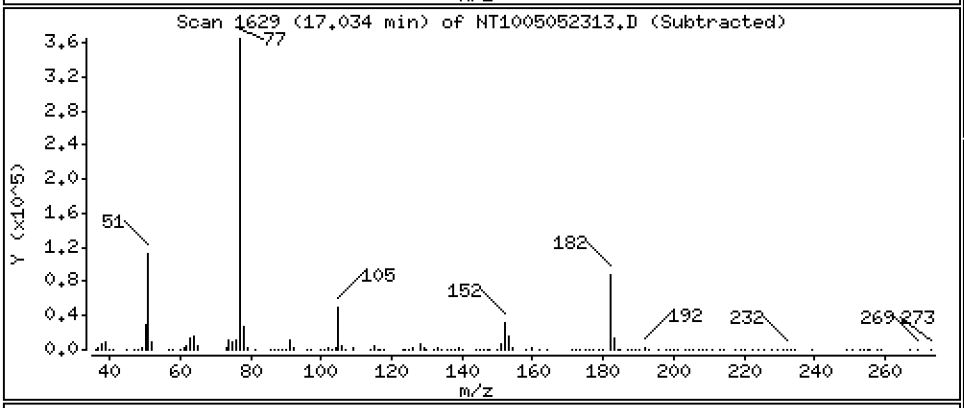
Column diameter: 0.25

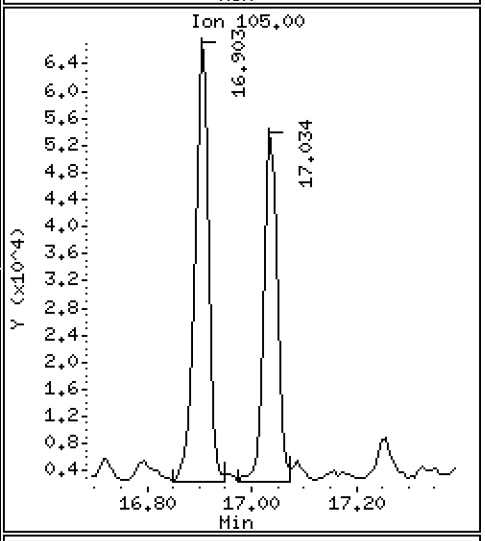
111 Azobenzene (1,2-DP-Hydrazine)

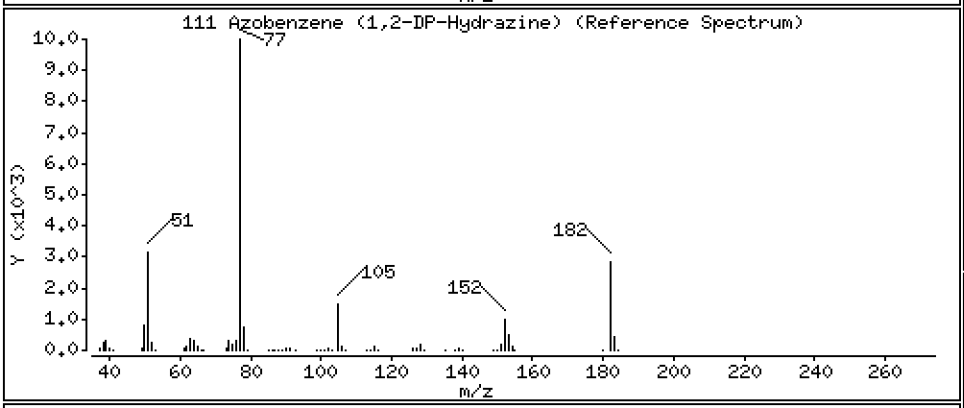
Concentration: 3.796 ug/mL

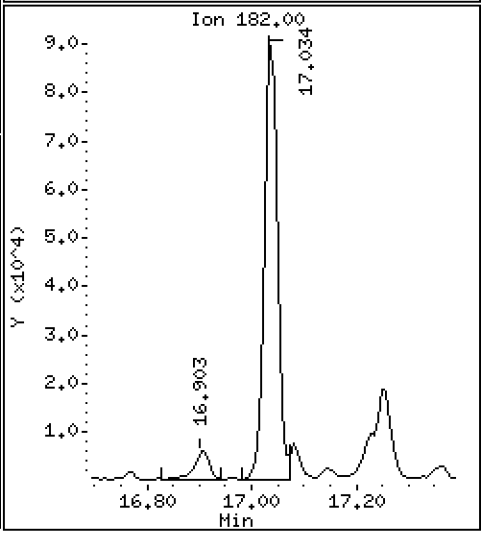


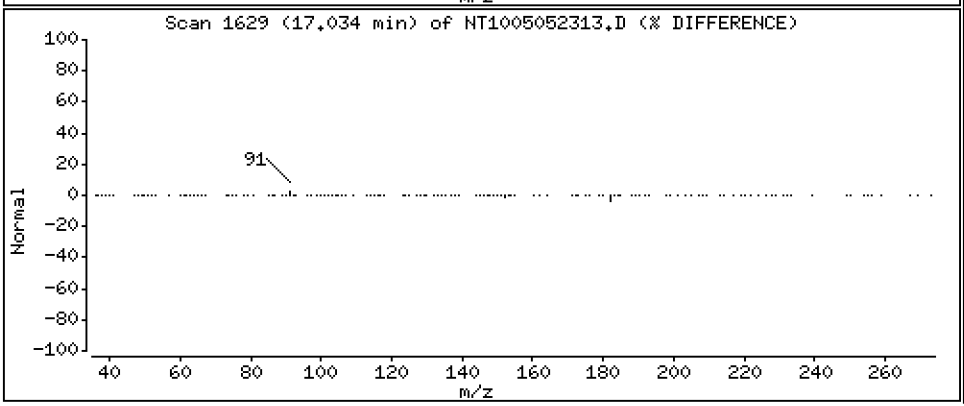












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

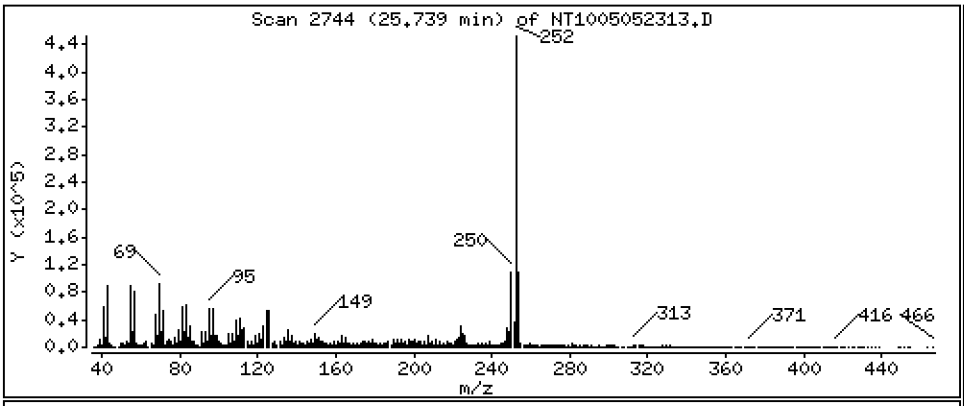
Operator: VTS

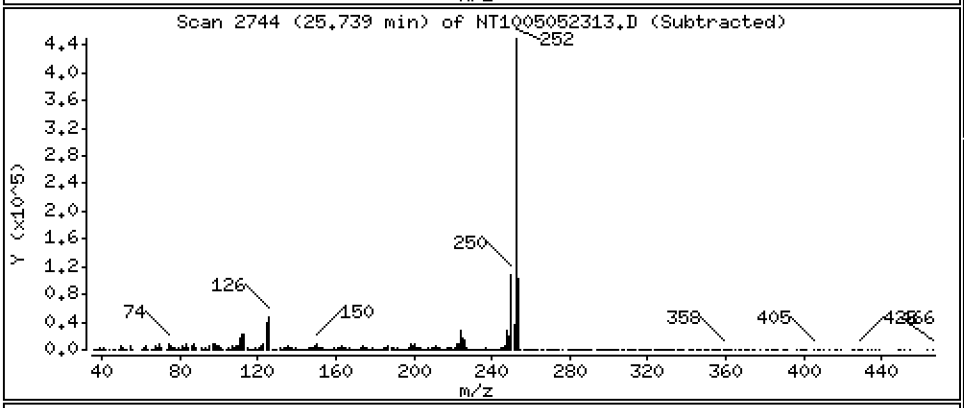
Column phase: ZB-5msi

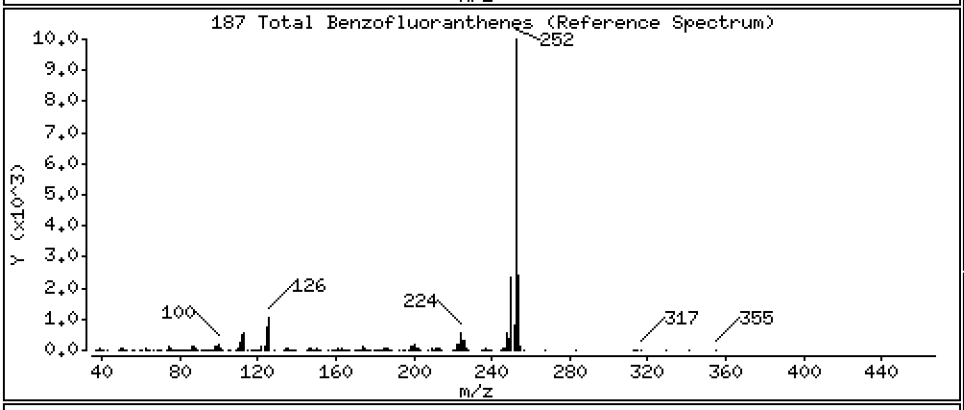
Column diameter: 0.25

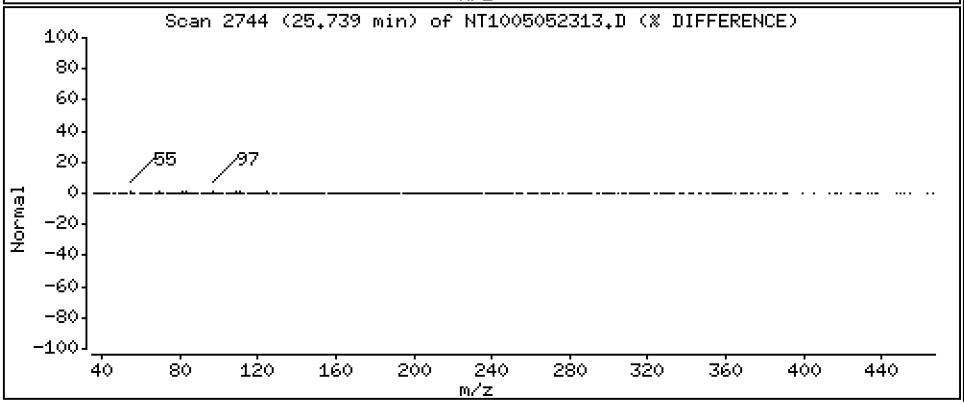
187 Total Benzofluoranthenes

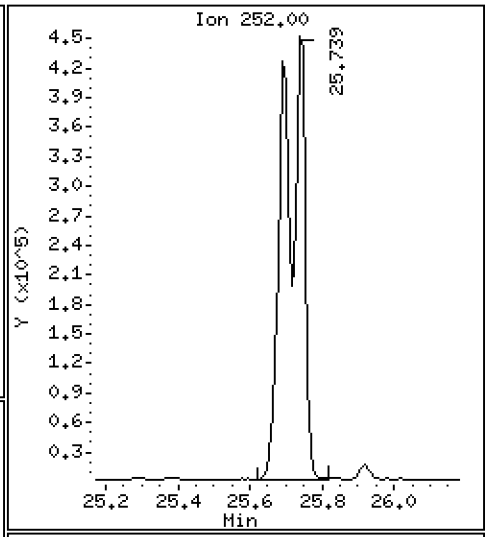
Concentration: 10.46 ug/mL

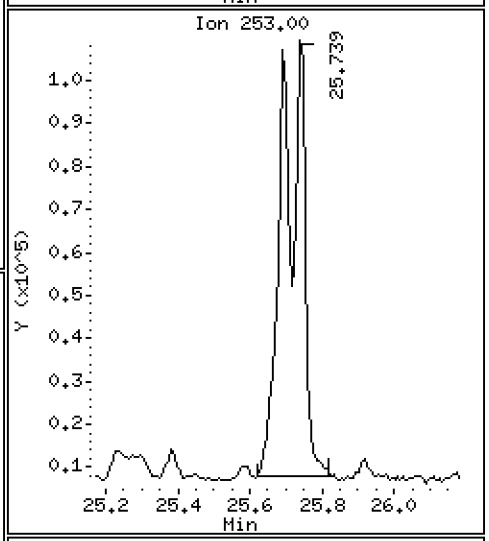


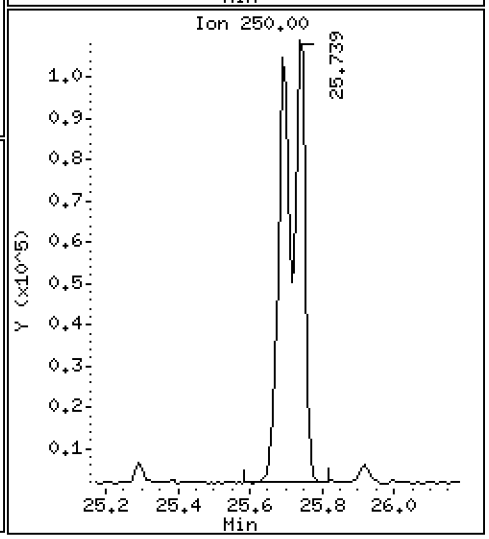












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS1

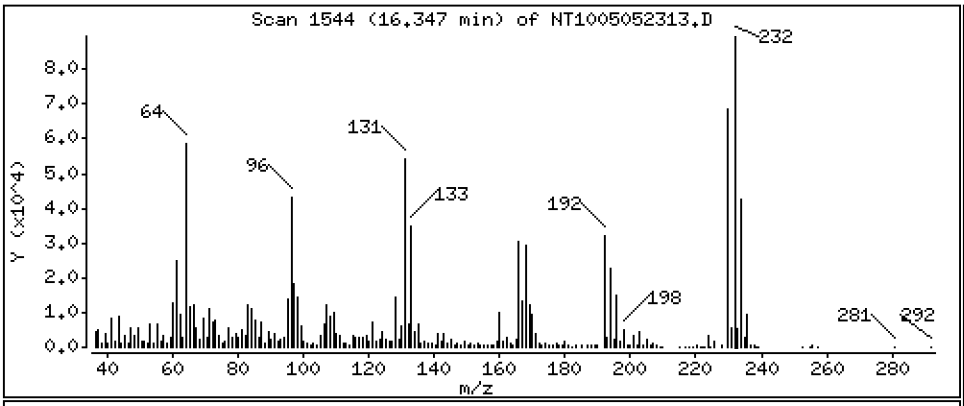
Operator: VTS

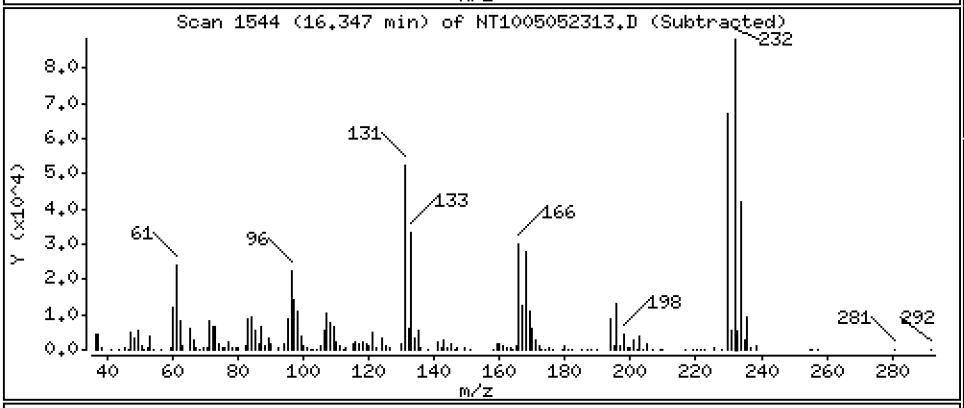
Column phase: ZB-5msi

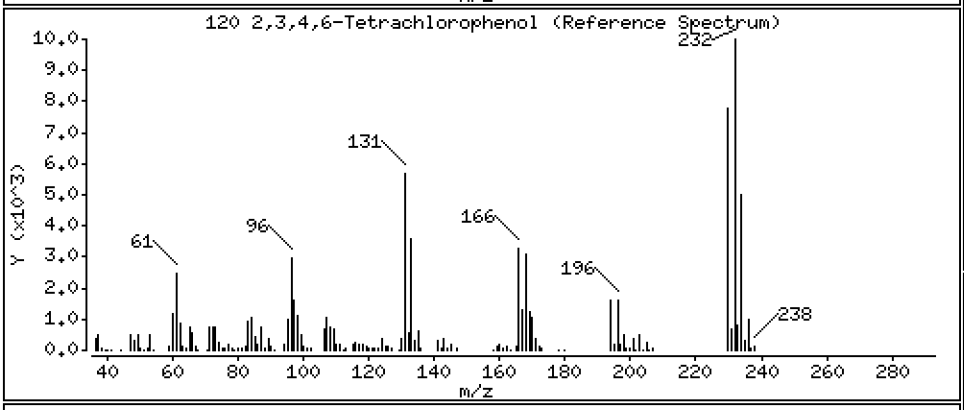
Column diameter: 0.25

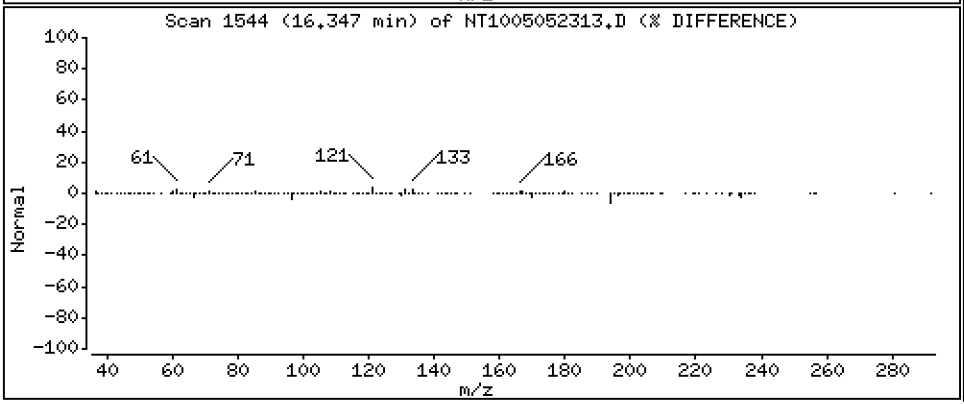
120 2,3,4,6-Tetrachlorophenol

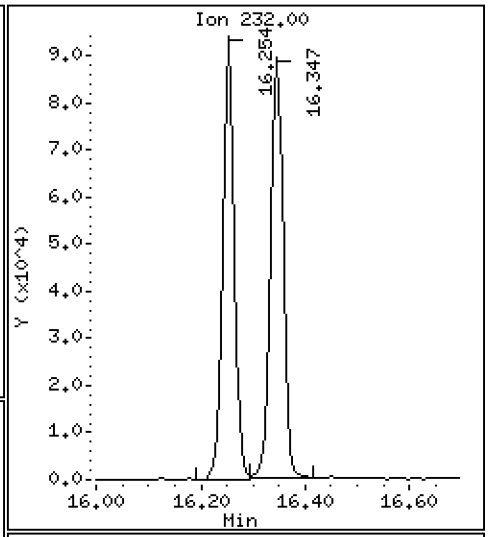
Concentration: 2.800 ug/mL

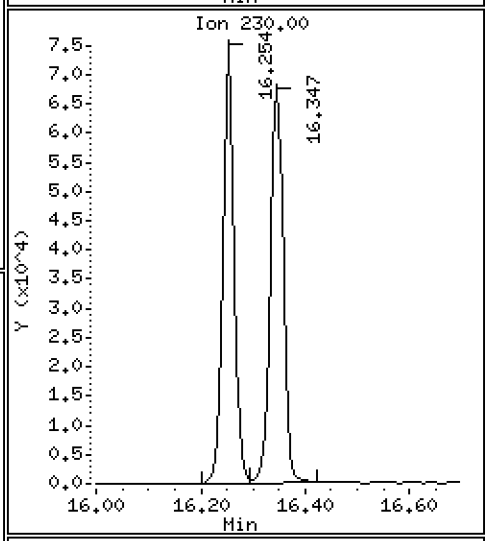


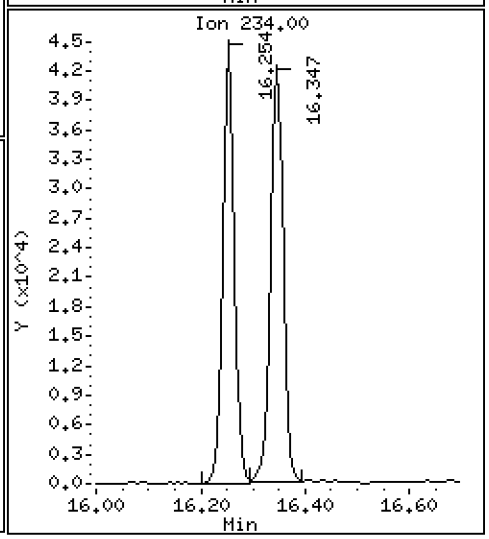












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052313.D
Lab Smp Id: BLD0329-MS1
Inj Date : 05-MAY-2023 18:32
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0329-MS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.246	7.253	(1.000)	200996	3.58479	3.585	
$	2 Phenol-d5	99	8.830	8.830	(1.000)	285281	4.22023	4.220	
	3 Phenol	94	8.853	8.853	(1.000)	239184	3.30921	3.309	
$	5 2-Chlorophenol-d4	132	9.131	9.139	(1.000)	314793	4.85929	4.859	
	4 Bis(2-Chloroethyl)ether	93	9.030	9.038	(1.000)	175915	3.36360	3.364	
	6 2-Chlorophenol	128	9.154	9.162	(1.000)	189994	2.98108	2.981	
	7 1,3-Dichlorobenzene	146	9.433	9.440	(1.000)	215260	2.99775	2.998	
*	8 1,4-Dichlorobenzene-d4	152	9.495	9.502	(1.000)	185292	4.00000	(M)	
	9 1,4-Dichlorobenzene	146	9.526	9.533	(1.000)	210632	2.98609	2.986	
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.867	(1.000)	141325	2.95713	2.957	
	12 1,2-Dichlorobenzene	146	9.883	9.890	(1.000)	208512	3.04472	3.045	
	11 Benzyl alcohol	108	9.758	9.766	(1.000)	187129	5.38638	5.386	
	14 2,2'-oxybis(1-Chloropropane)	121	10.054	10.069	(1.000)	74976	3.79071	3.791	
	13 2-Methylphenol	108	9.976	9.976	(1.000)	164291	3.09911	3.099	
	17 Hexachloroethane	117	10.480	10.488	(1.000)	82147	2.69340	2.693	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.325	(1.000)	160180	3.81485	3.815	
	15 4-Methylphenol	108	10.248	10.240	(1.000)	233105	3.66283	3.663	
$	18 Nitrobenzene-d5	82	10.597	10.604	(0.884)	267944	3.39977	3.400	
	19 Nitrobenzene	77	10.628	10.636	(0.886)	259106	3.40184	3.402	
	20 Isophorone	82	11.078	11.078	(0.924)	479156	5.28426	5.284	
	21 2-Nitrophenol	139	11.257	11.266	(0.939)	118586	2.93206	2.932	
	22 2,4-Dimethylphenol	107	11.291	11.300	(0.942)	672755	9.04520	9.045	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.503	(0.959)	227836	3.93065	3.931	
	24 Benzoic acid	105	11.461	11.486	(0.956)	434643	8.40729	8.407	
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	628783	10.7614	10.76	
	26 1,2,4-Trichlorobenzene	180	11.899	11.906	(0.992)	253399	3.02792	3.028	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	705262	4.00000		
	28 Naphthalene	128	12.030	12.037	(1.003)	663242	3.37071	3.371	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	152962	3.31429	3.314	
	31 4-Chloro-3-methylphenol	107	13.105	13.105	(1.093)	721900	11.3369	11.34	
	32 2-Methylnaphthalene	142	13.430	13.437	(1.120)	478355	3.25153	3.252	
	33 Hexachlorocyclopentadiene	237	13.886	13.902	(0.889)	102030	2.10700	2.107	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.049	14.049	(0.899)	540840	11.3381	11.34
	35	2,4,5-Trichlorophenol	196	14.119	14.118	(0.904)	578009	11.1119	11.11
$	36	2-Fluorobiphenyl	172	14.204	14.211	(0.909)	556231	3.29931	3.299
	37	2-Chloronaphthalene	162	14.428	14.436	(0.924)	447713	3.37183	3.372
	38	2-Nitroaniline	65	14.691	14.691	(0.941)	442615	11.4780	11.48
	39	Dimethylphthalate	163	15.109	15.109	(0.967)	562023	3.76417	3.764
	40	Acenaphthylene	152	15.303	15.310	(0.980)	731204	3.52792	3.528
	41	2,6-Dinitrotoluene	165	15.256	15.256	(0.977)	358574	10.6398	10.64
*	42	Acenaphthene-d10	164	15.620	15.628	(1.000)	389417	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.690	15.689	(1.004)	469021	3.55804	3.558
	45	2,4-Dinitrophenol	184	15.744	15.759	(1.008)	28447	1.09863	1.099
	46	Dibenzofuran	168	16.014	16.014	(1.025)	707547	3.68132	3.681
	47	4-Nitrophenol	109	15.852	15.844	(1.015)	312234	9.99894	9.999
	48	2,4-Dinitrotoluene	165	16.068	16.068	(1.029)	509599	10.4765	10.48
	50	Diethylphthalate	149	16.563	16.571	(1.060)	759682	4.90037	4.900
	49	Fluorene	166	16.733	16.733	(1.071)	581351	3.66657	3.667
	51	4-Chlorophenyl-phenylether	204	16.710	16.710	(1.070)	338699	4.28986	4.290
	52	4-Nitroaniline	138	16.826	16.825	(1.077)	54578	1.68971	1.690
	53	4,6-Dinitro-2-methylphenol	198	16.910	16.918	(0.905)	239299	8.80594	8.806
	54	N-Nitrosodiphenylamine	169	16.964	16.964	(0.908)	323027	3.56006	3.560
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	105861	5.50384	5.504
	56	4-Bromophenyl-phenylether	248	17.720	17.728	(0.949)	162197	3.78661	3.787
	57	Hexachlorobenzene	284	18.052	18.052	(0.966)	137150	3.19001	3.190
	58	Pentachlorophenol	266	18.401	18.401	(0.985)	316888	10.2909	10.29
*	59	Phenanthrene-d10	188	18.679	18.679	(1.000)	686638	4.00000	
	60	Phenanthrene	178	18.726	18.726	(1.002)	871803	4.32710	4.327
	61	Anthracene	178	18.819	18.818	(1.007)	672170	3.61033	3.610
	62	Carbazole	167	19.144	19.136	(1.025)	638983	3.87724	3.877
	63	Di-n-butylphthalate	149	19.909	19.902	(1.066)	1016154	4.04458	4.045
	64	Fluoranthene	202	21.101	21.085	(0.890)	1319929	5.43101	5.431
	65	Pyrene	202	21.519	21.511	(0.908)	1246667	5.13494	5.135
$	66	Terphenyl-d14	244	21.782	21.782	(0.919)	572777	2.98303	2.983
	67	Butylbenzylphthalate	149	22.695	22.695	(0.958)	422063	3.84694	3.847
	68	Benzo(a)anthracene	228	23.671	23.663	(0.999)	980861	4.55164	4.552
*	69	Chrysene-d12	240	23.702	23.694	(1.000)	544347	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.749	23.741	(1.002)	1013721	5.25580	5.256
	72	bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	855693	5.62708	5.627
*	134	Di-n-octylphthalate-d4	153	24.747	24.739	(1.000)	1055664	4.00000	
	73	Di-n-octylphthalate	149	24.755	24.747	(1.000)	1103213	3.96113	3.961
	74	Benzo(b)fluoranthene	252	25.692	25.676	(0.968)	963574	5.34078	5.341
	75	Benzo(k)fluoranthene	252	25.738	25.730	(0.969)	940879	5.25539	5.255
	76	Benzo(a)pyrene	252	26.419	26.404	(0.995)	707259	4.68344	4.683
*	77	Perylene-d12	264	26.551	26.528	(1.000)	439193	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.553	29.498	(1.113)	713964	3.93551	3.936
	79	Dibenzo(a,h)anthracene	278	29.553	29.514	(1.113)	544972	3.58688	3.587
	80	Benzo(g,h,i)perylene	276	30.446	30.376	(1.147)	571978	3.95558	3.956
	90	N-Nitrosodimethylamine	74	5.083	5.090	(1.000)	78219	2.58275	2.583
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	5.152	5.114	(1.000)	50013	1.04727	1.047
	105	1-methylnaphthalene	142	13.654	13.662	(1.139)	464857	3.44651	3.447
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.041	(1.091)	574879	3.79579	3.796

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.738	25.676	(0.969)	1816184	10.4578	10.46
120 2,3,4,6-Tetrachlorophenol	232	16.347	16.346	(1.047)	142789	2.79976	2.800

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052313.D
Lab Smp Id: BLD0329-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	185292	3.25
27 Naphthalene-d8	621628	310814	1243256	705262	13.45
42 Acenaphthene-d10	353112	176556	706224	389417	10.28
59 Phenanthrene-d10	694933	347467	1389866	686638	-1.19
69 Chrysene-d12	553967	276984	1107934	544347	-1.74
134 Di-n-octylphthala	895601	447801	1791202	1055664	17.87
77 Perylene-d12	482573	241287	965146	439193	-8.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	-0.08
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.69	23.19	24.19	23.70	0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.75	0.03
77 Perylene-d12	26.53	26.03	27.03	26.55	0.09

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

REVIEW SUMMARY FOR FILE - NT1005052313.D

Lab ID: BLD0329-MS1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 18:32

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.060	-0.0596	2,2'-oxybis(1-Chloropropane)

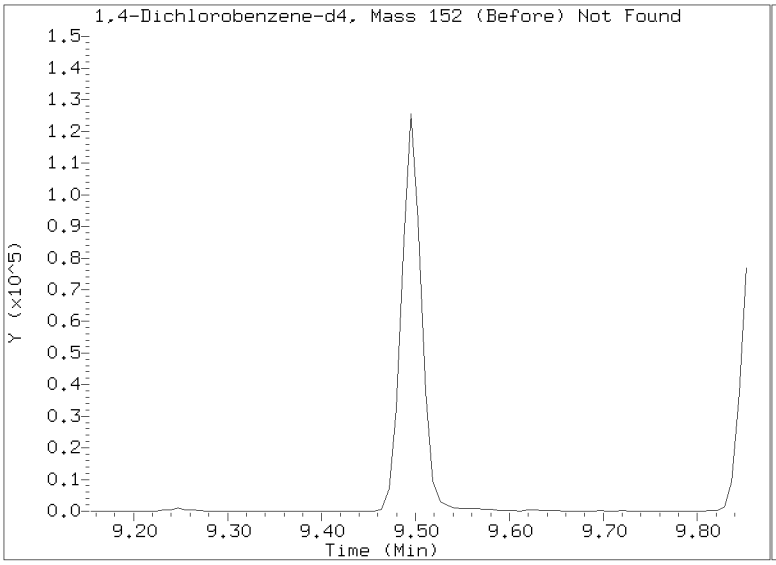
RRT check based on Ccal File: NT1005052303.D

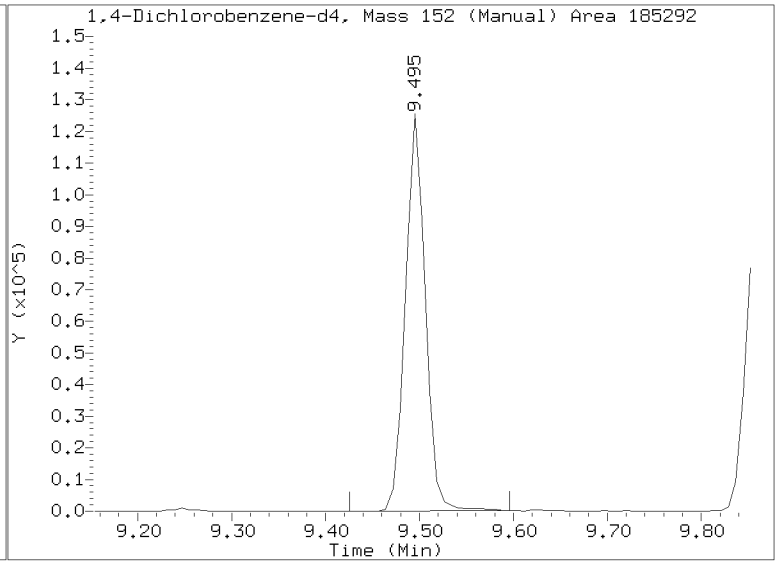
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052313.D
Injection Date: 05-MAY-2023 18:32
Lab ID:BLD0329-MS1 Client ID:
Report Date: 05/08/2023 10:16





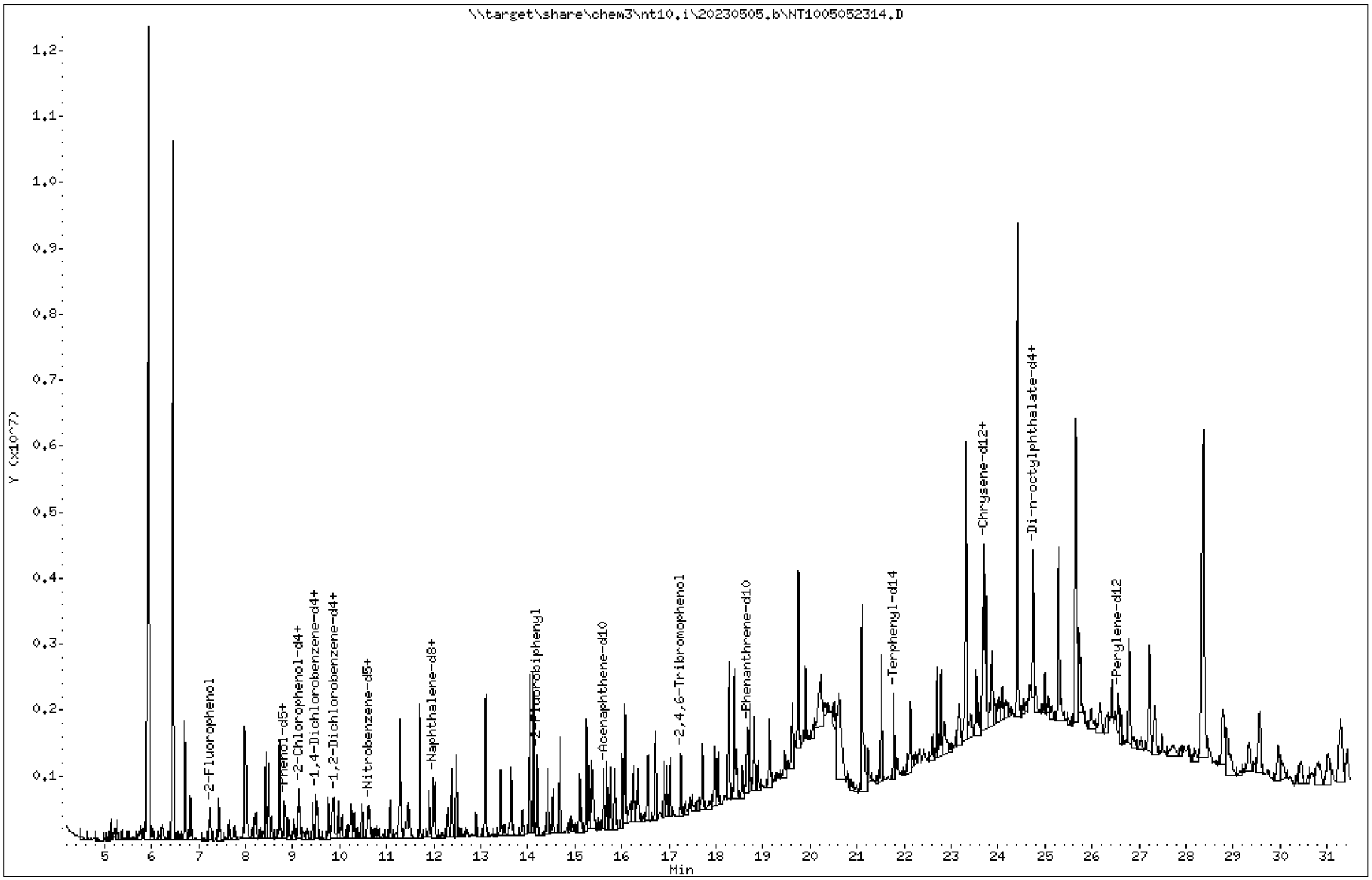
APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D
Date : 05-MAY-2023 19:11
Client ID:
Sample Info: BLD0329-MSD1

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

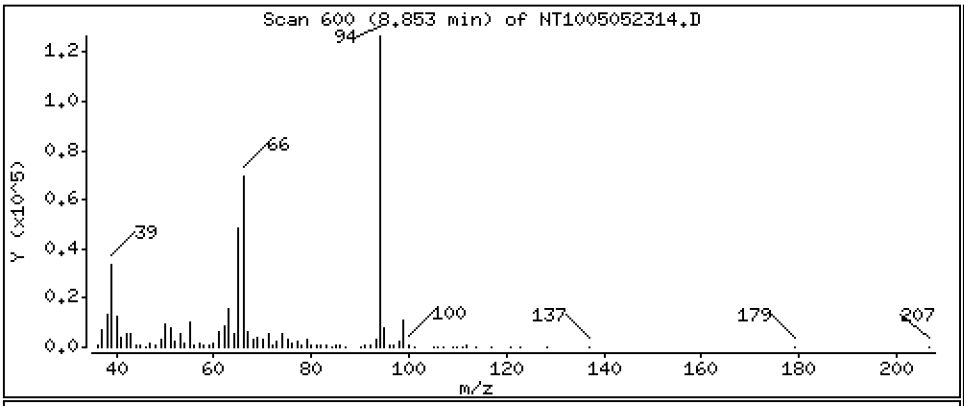
Operator: VTS

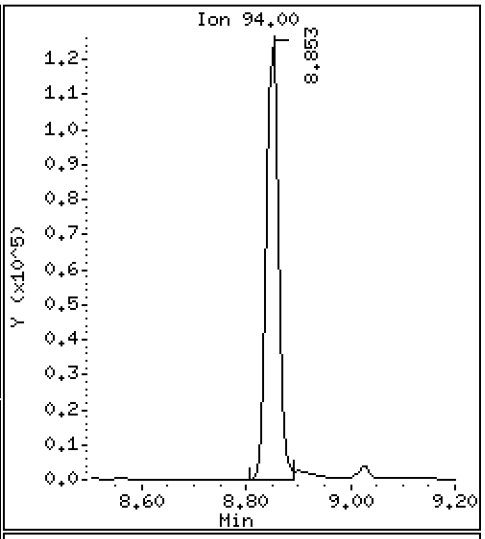
Column phase: ZB-5msi

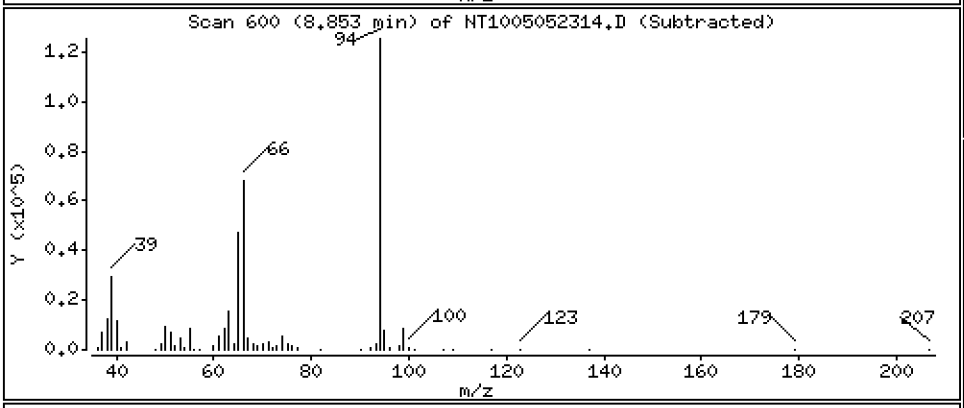
Column diameter: 0.25

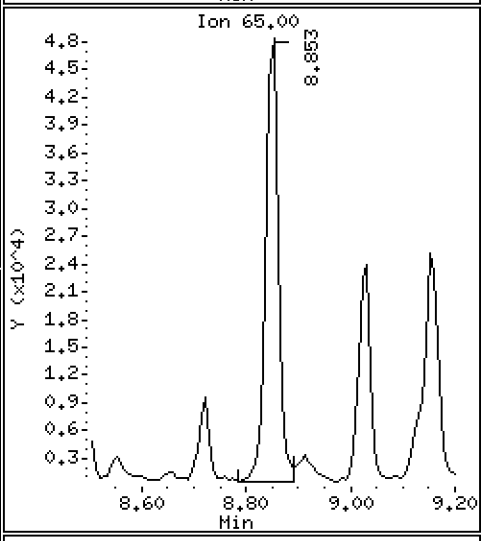
3 Phenol

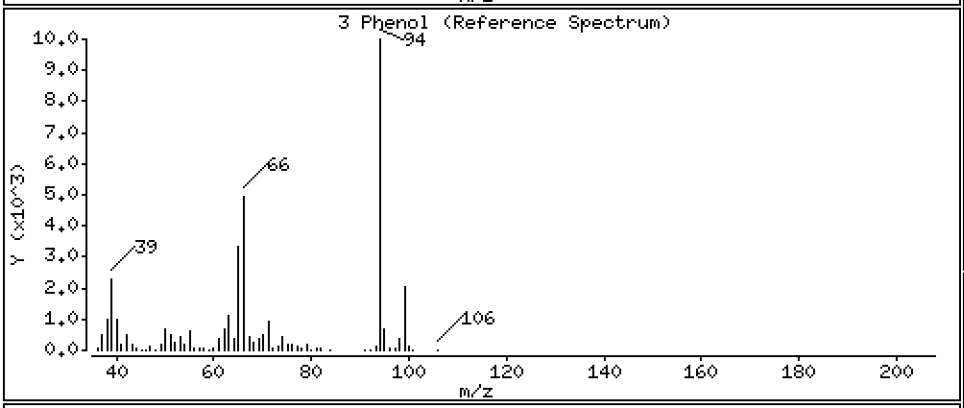
Concentration: 2.920 ug/mL

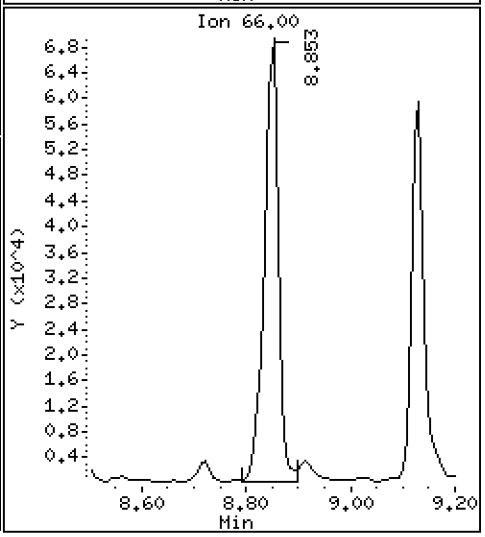


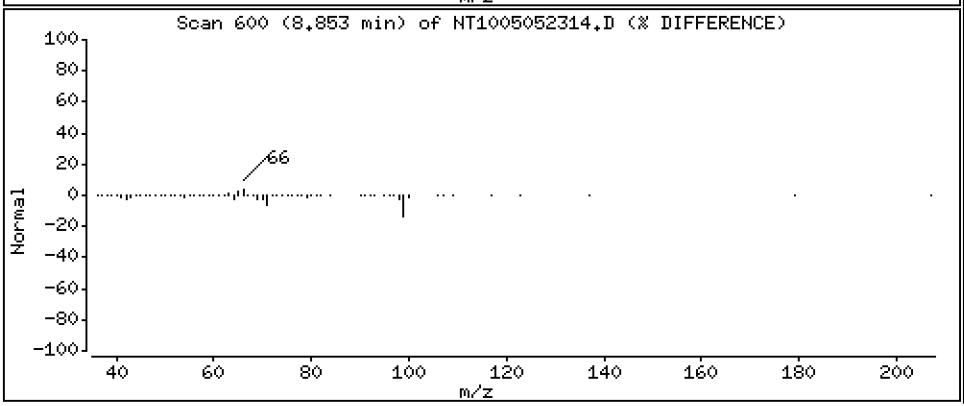












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

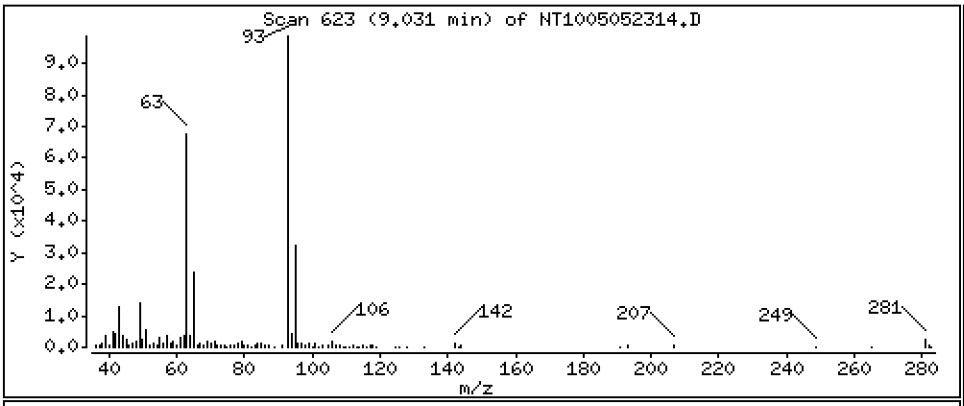
Operator: VTS

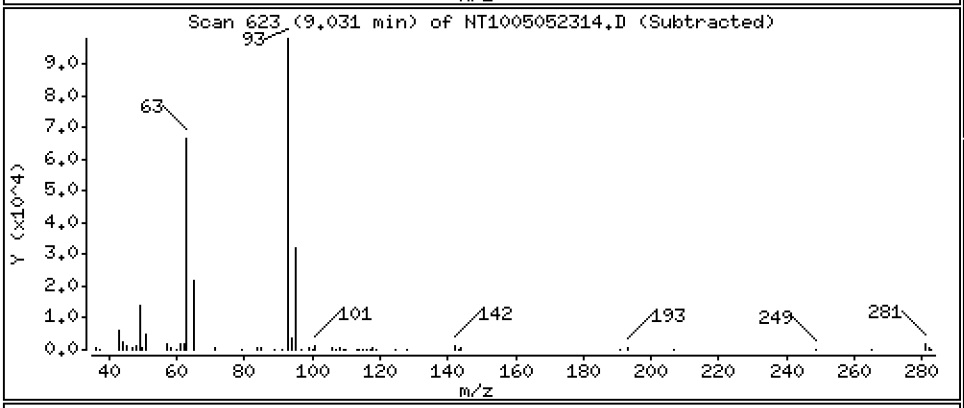
Column phase: ZB-5msi

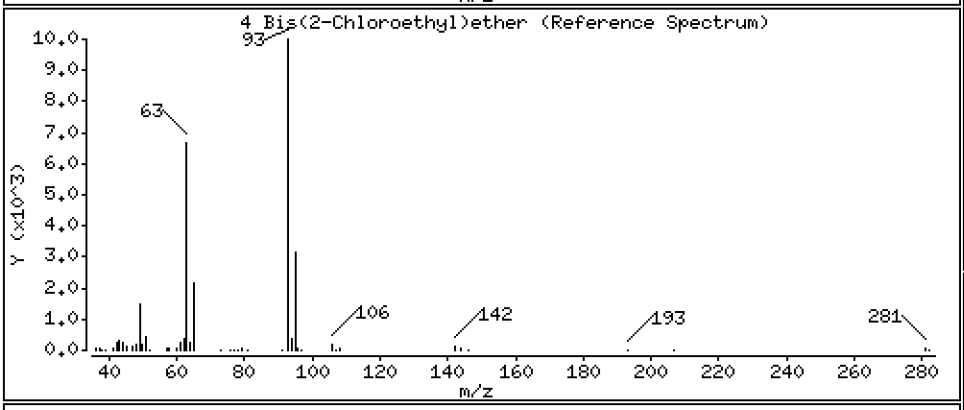
Column diameter: 0.25

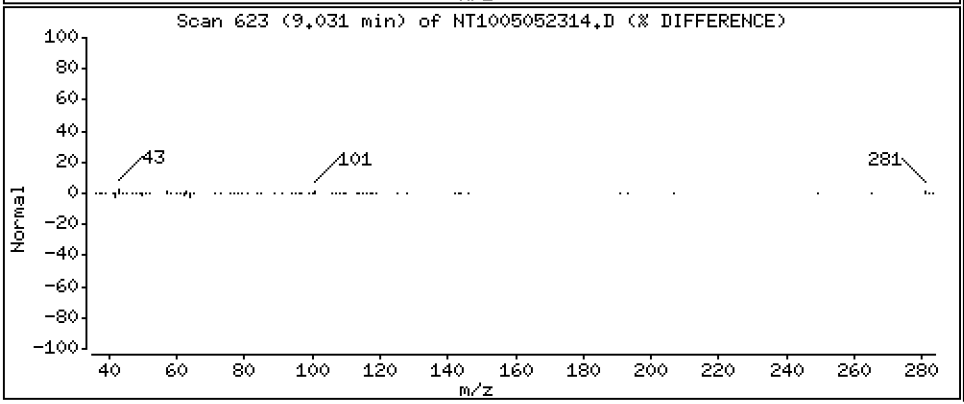
4 Bis(2-Chloroethyl)ether

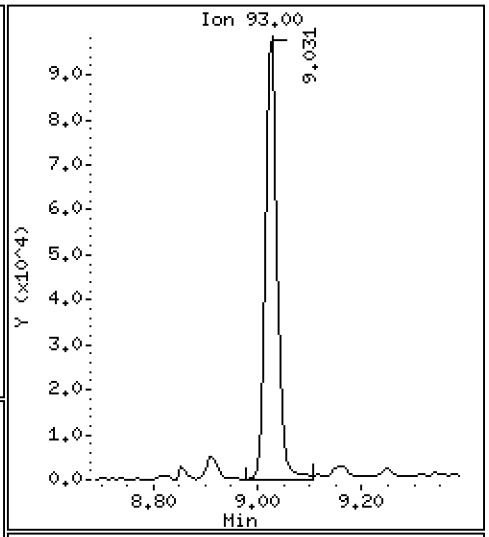
Concentration: 3.245 ug/mL

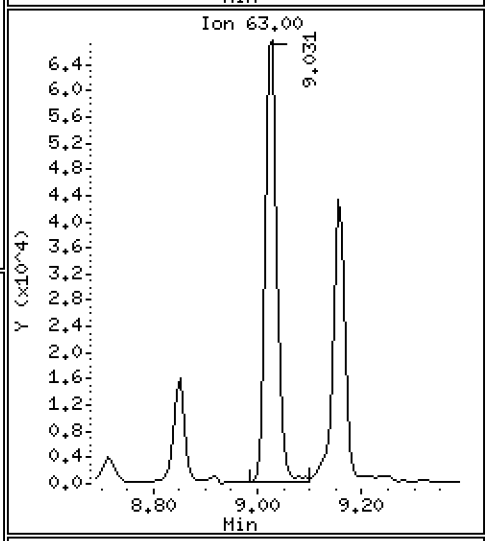


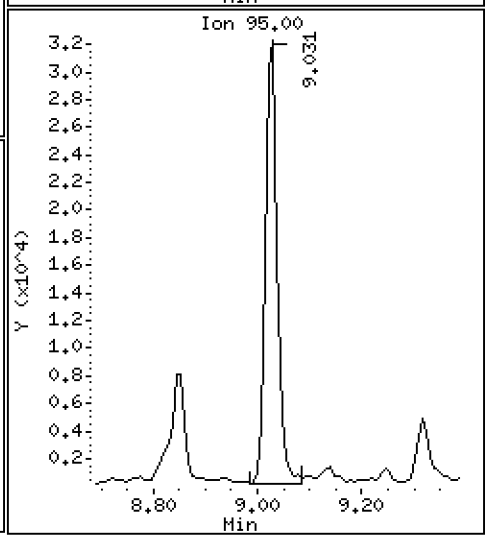












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

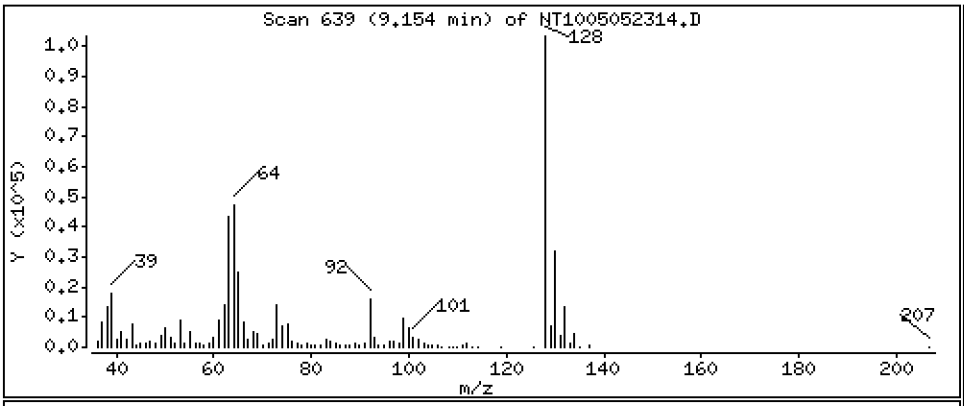
Operator: VTS

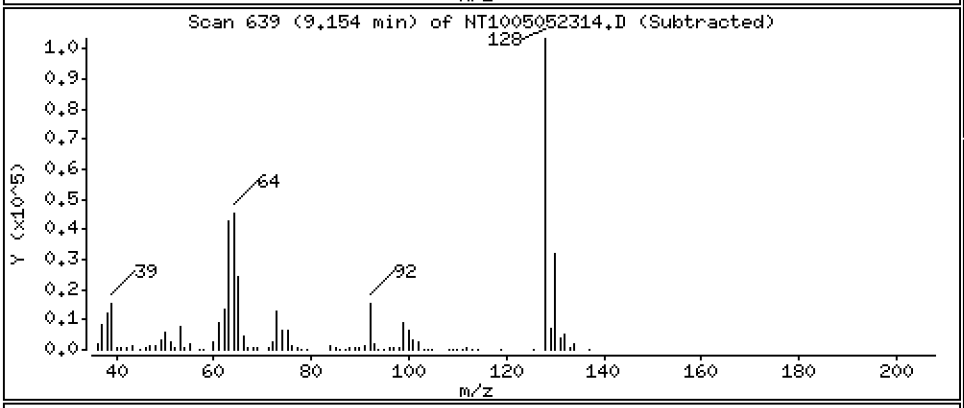
Column phase: ZB-5msi

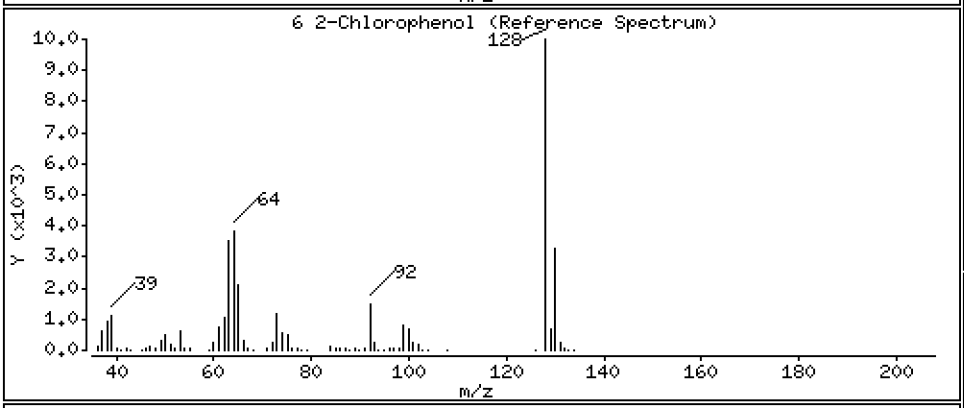
Column diameter: 0.25

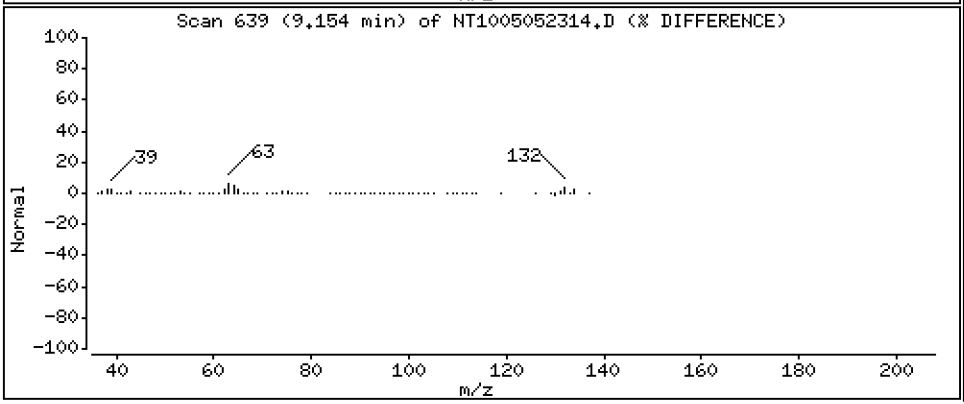
6 2-Chlorophenol

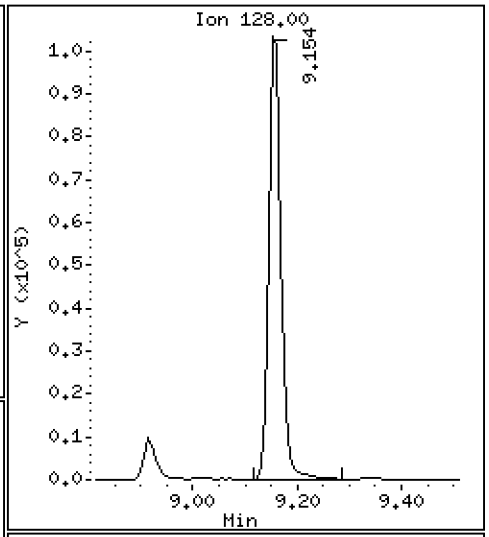
Concentration: 2.919 ug/mL

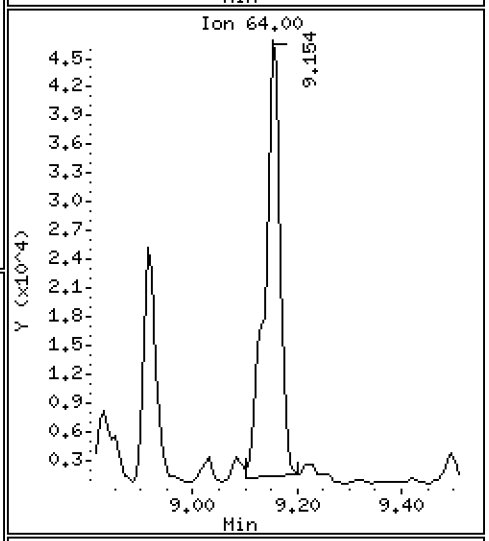


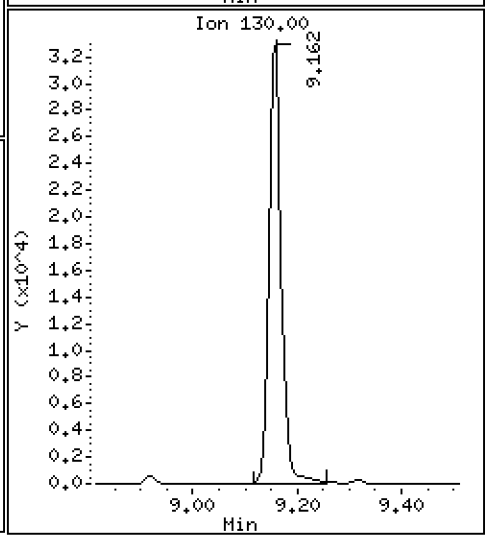












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

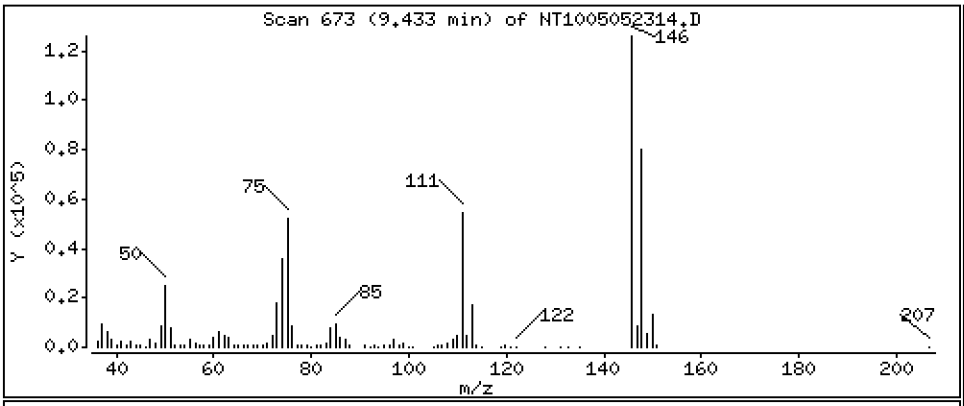
Operator: VTS

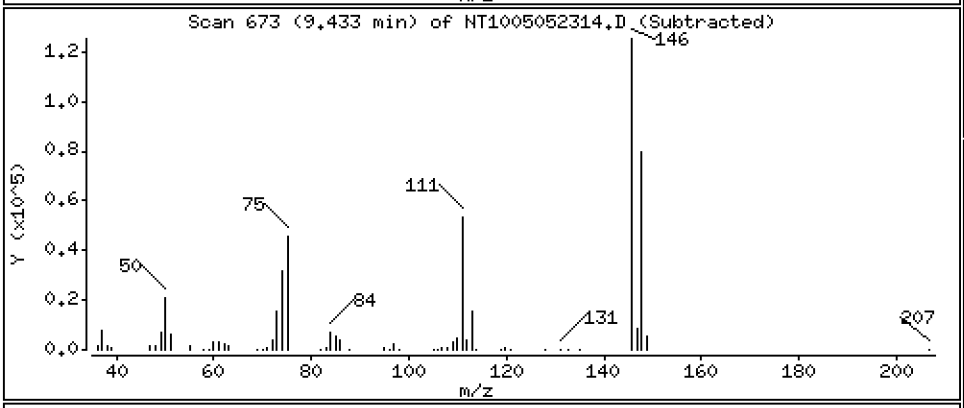
Column phase: ZB-5msi

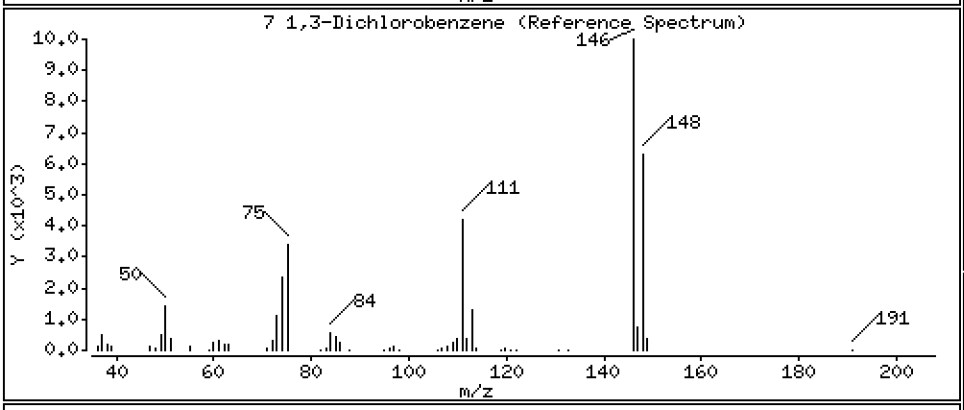
Column diameter: 0.25

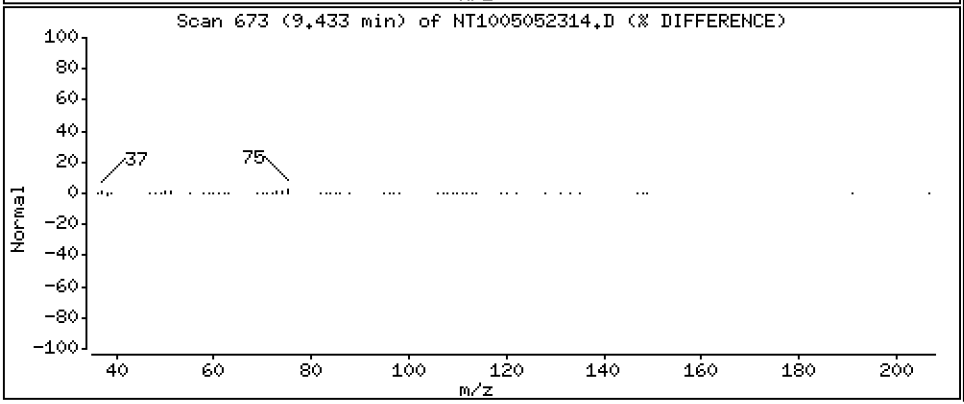
7 1,3-Dichlorobenzene

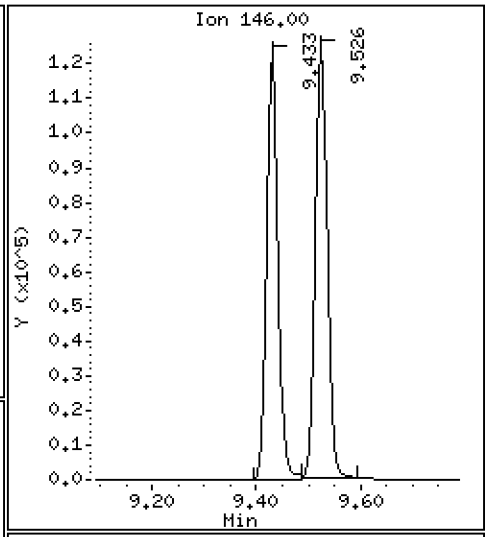
Concentration: 2.928 ug/mL

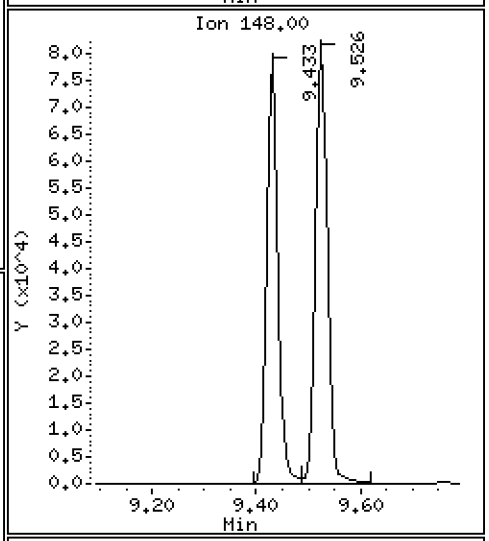


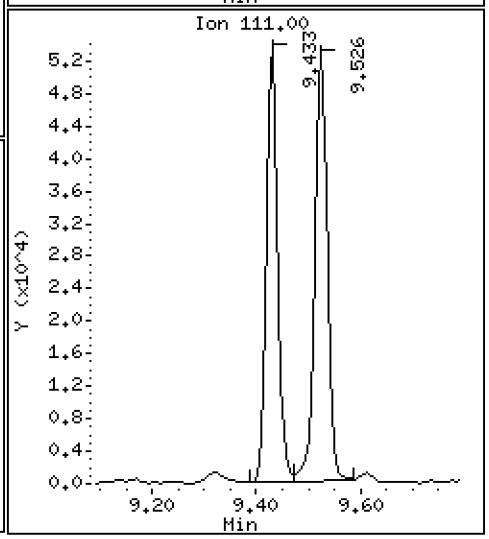












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

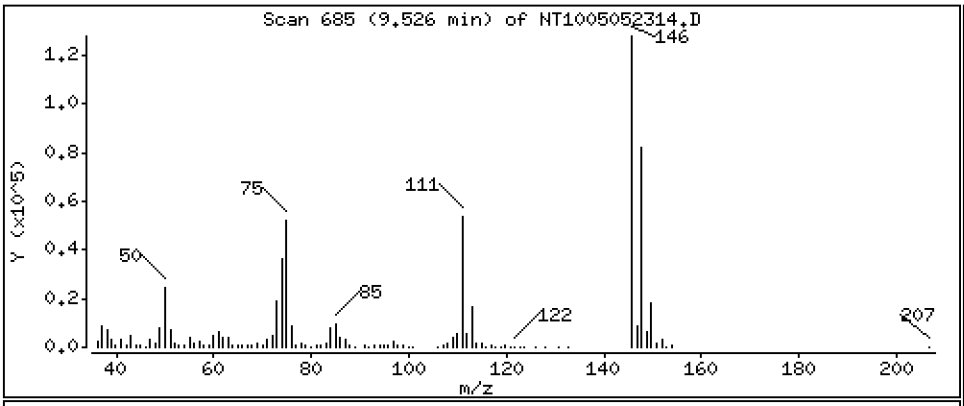
Operator: VTS

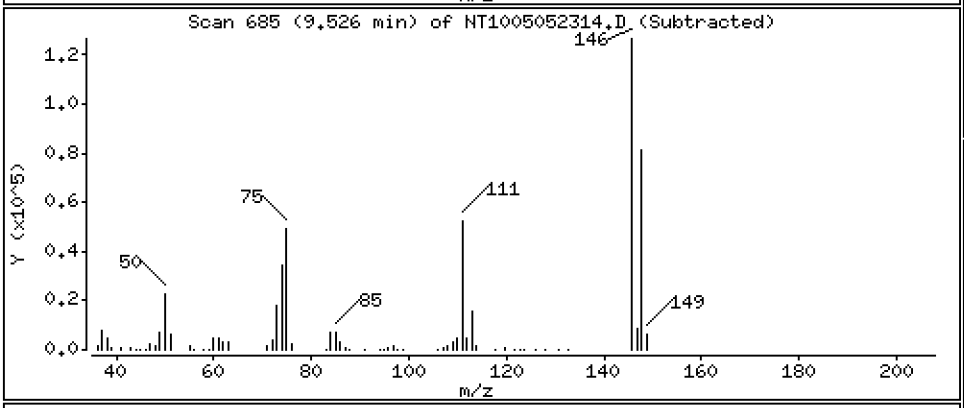
Column phase: ZB-5msi

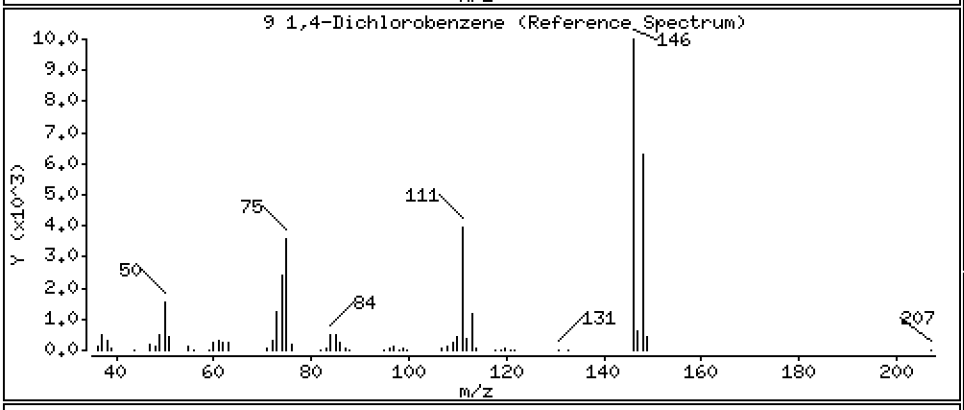
Column diameter: 0.25

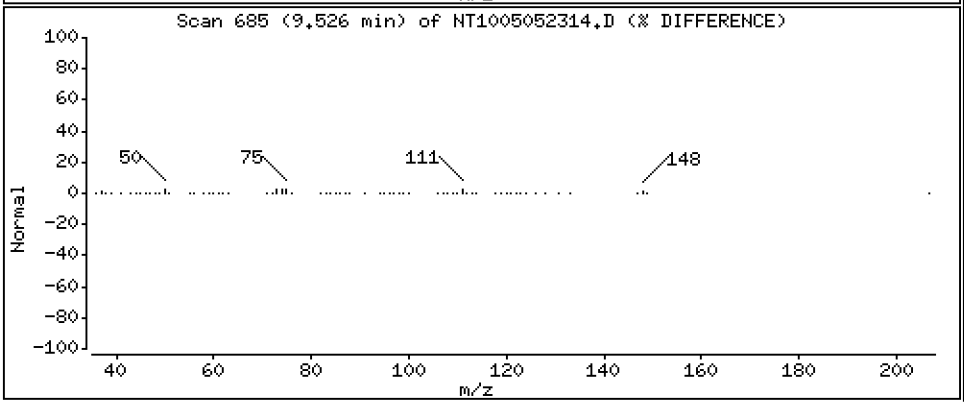
9 1,4-Dichlorobenzene

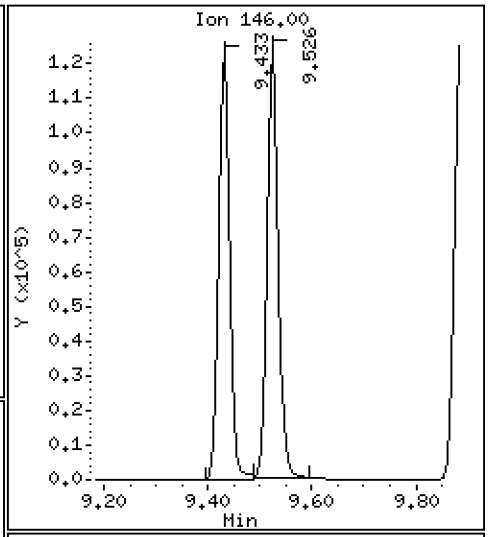
Concentration: 2.926 ug/mL

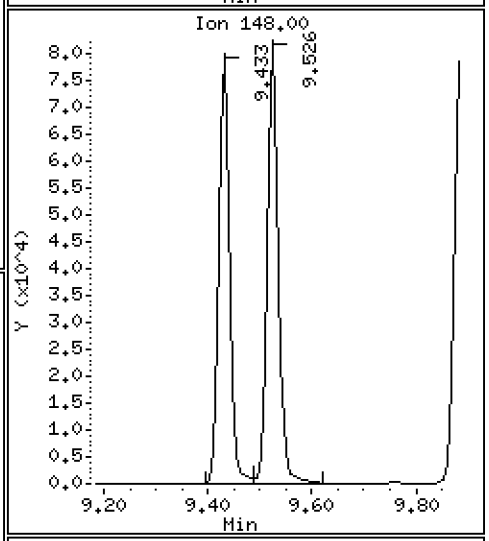


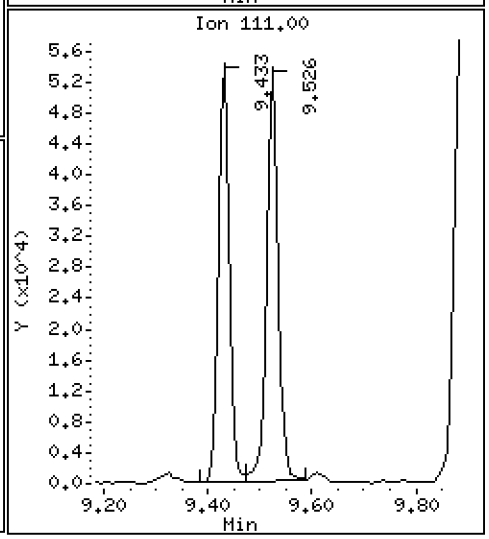












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

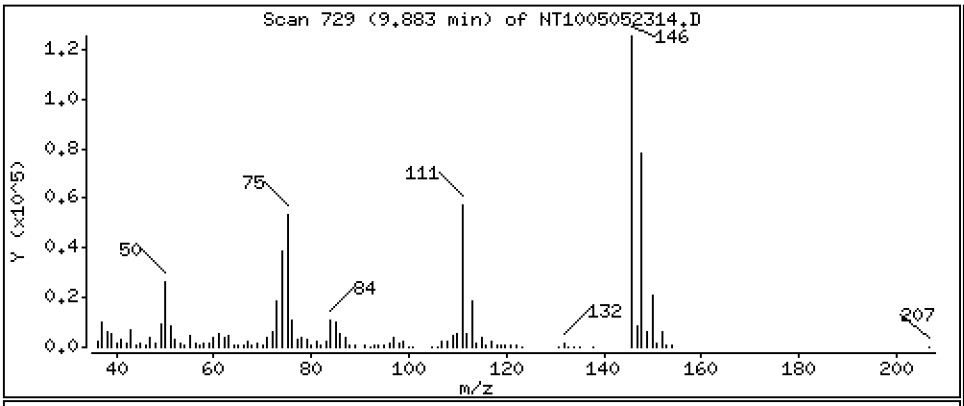
Operator: VTS

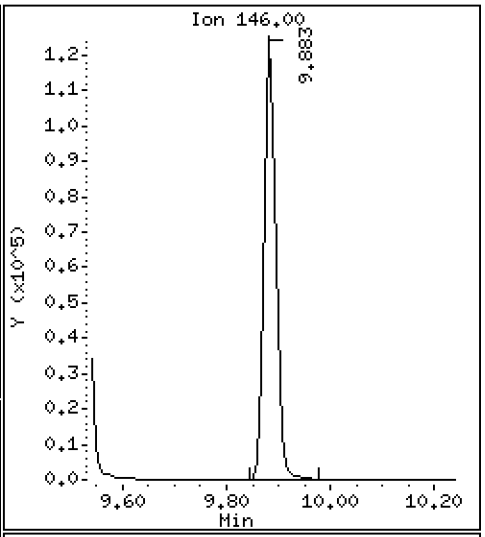
Column phase: ZB-5msi

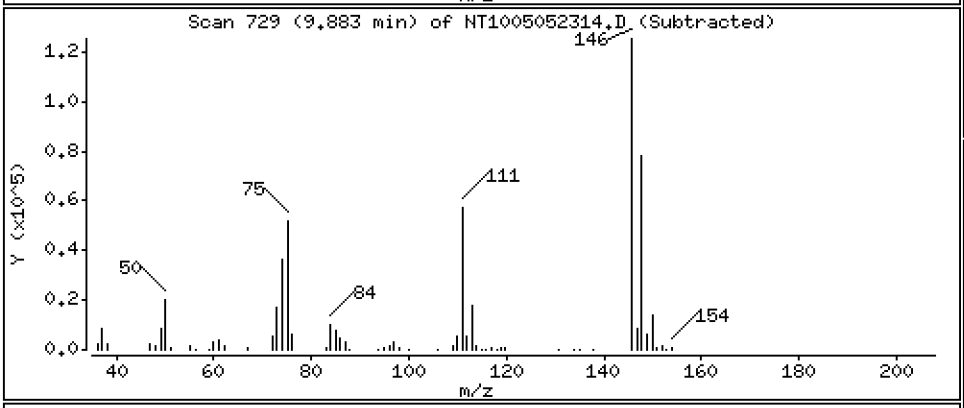
Column diameter: 0.25

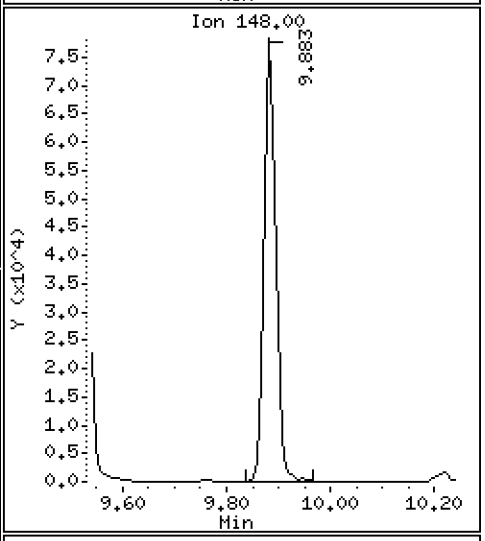
12 1,2-Dichlorobenzene

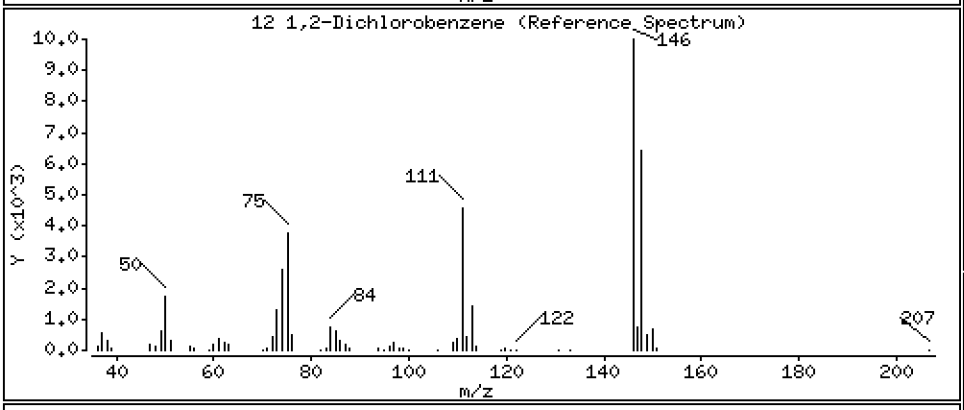
Concentration: 3.062 ug/mL

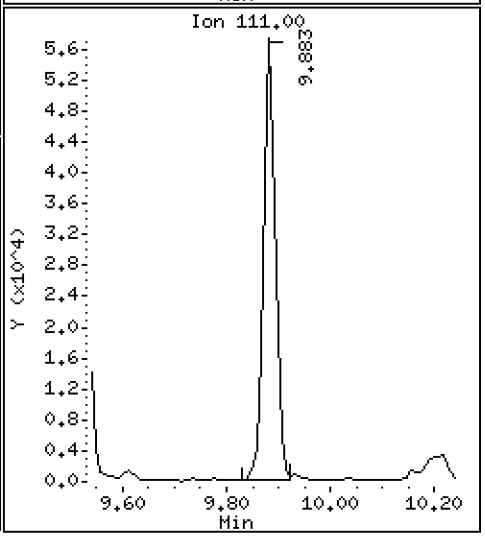


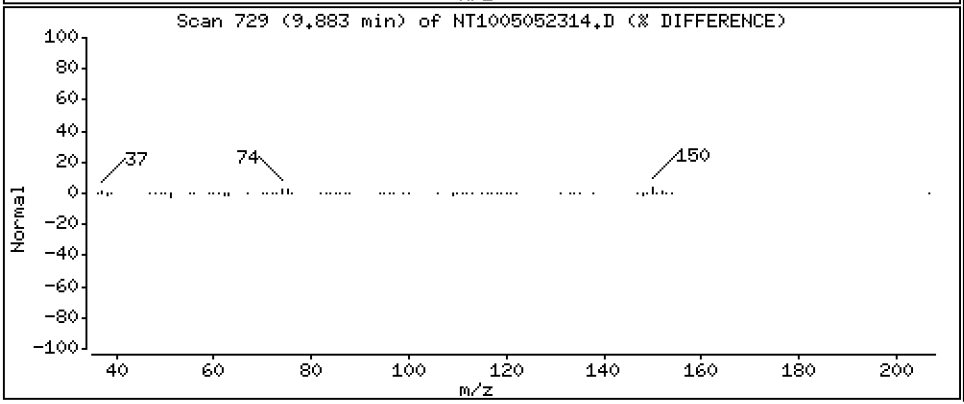












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

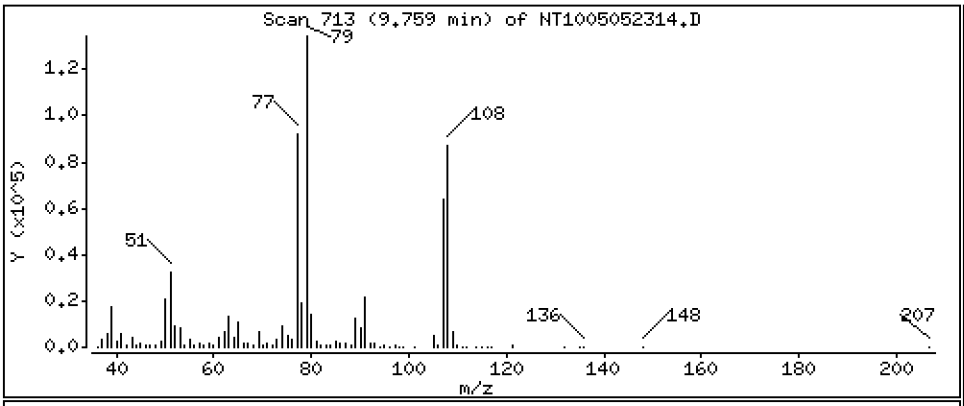
Operator: VTS

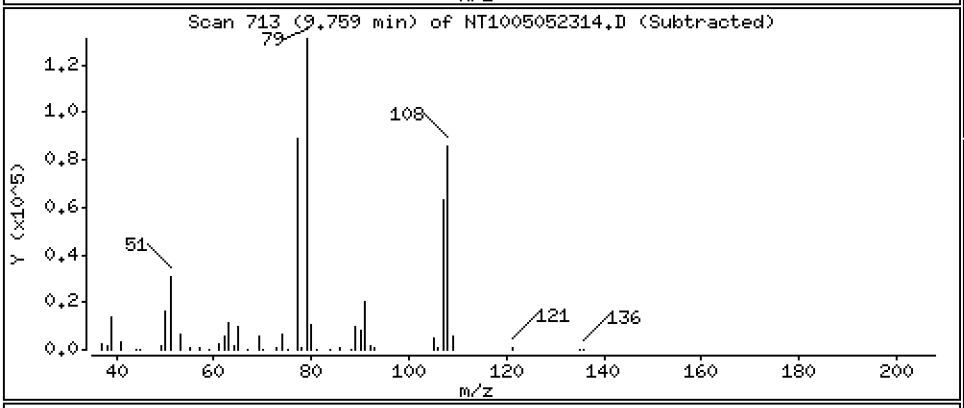
Column phase: ZB-5msi

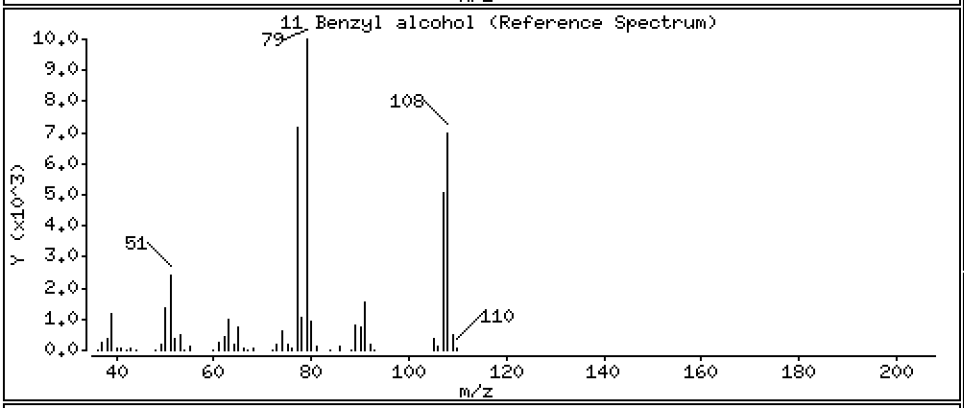
Column diameter: 0.25

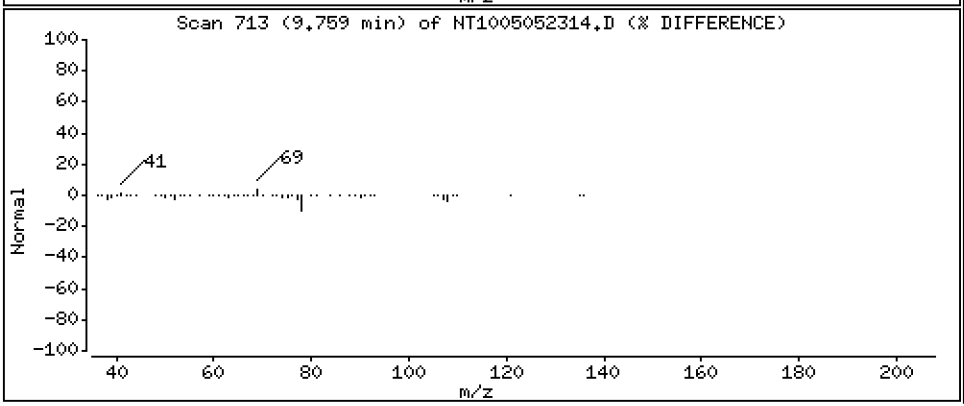
11 Benzyl alcohol

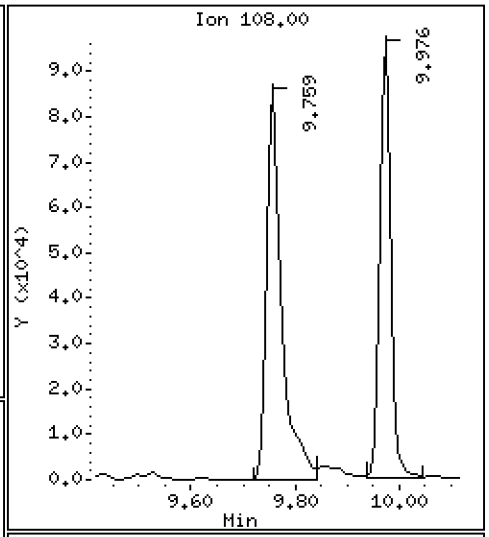
Concentration: 5.435 ug/mL

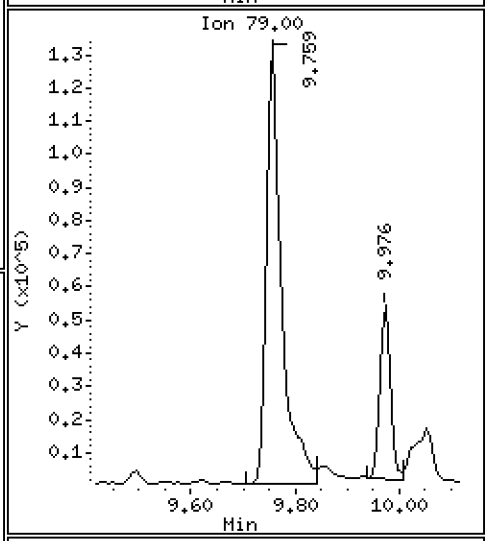


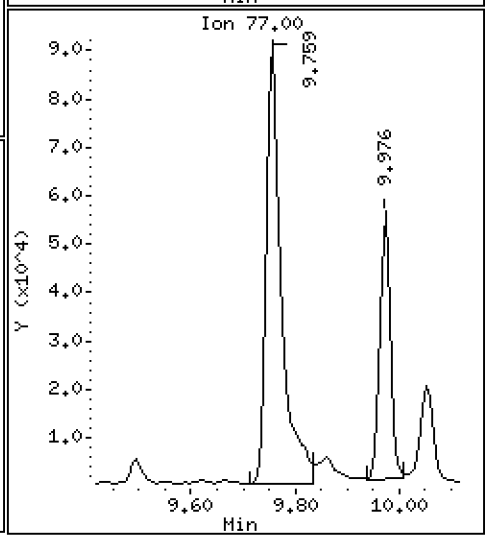












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

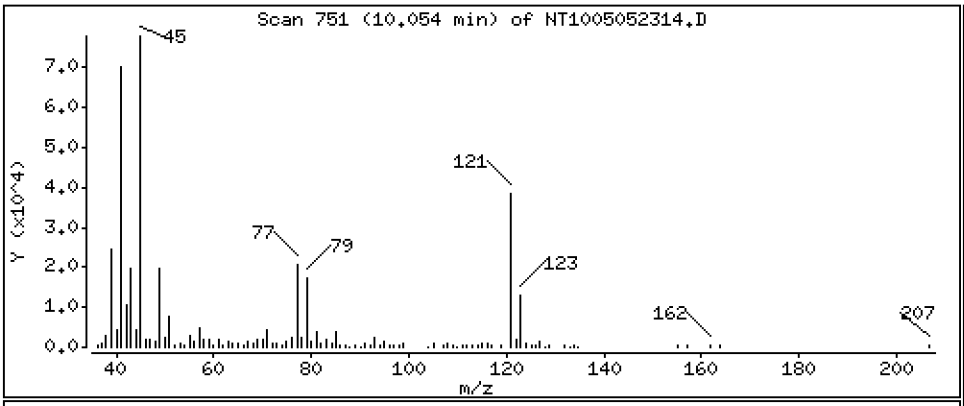
Operator: VTS

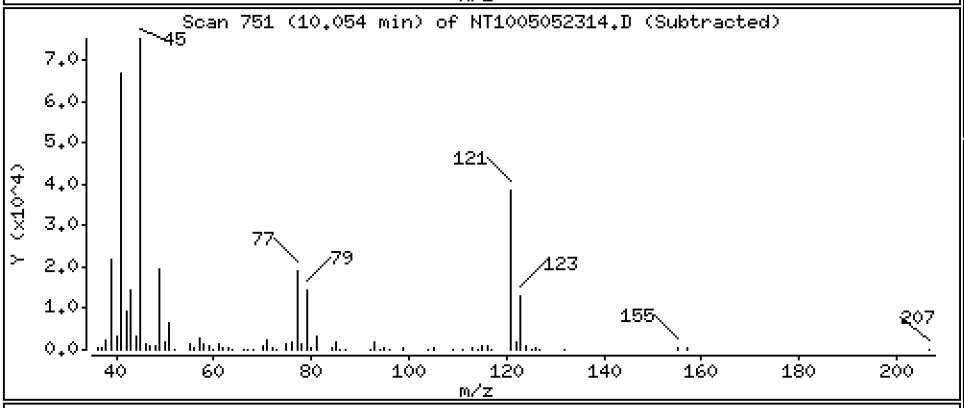
Column phase: ZB-5msi

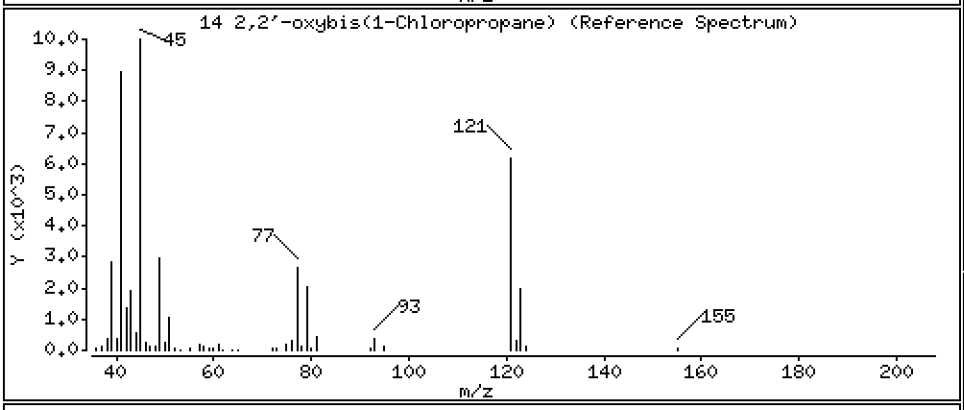
Column diameter: 0.25

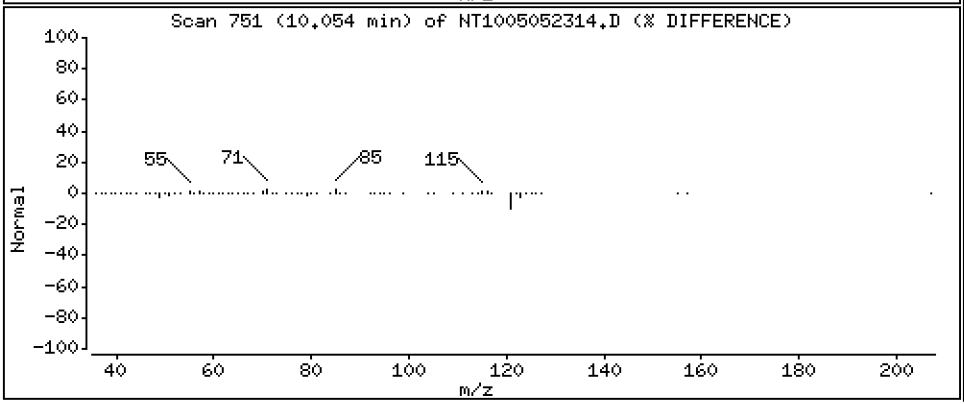
14 2,2'-oxybis(1-Chloropropane)

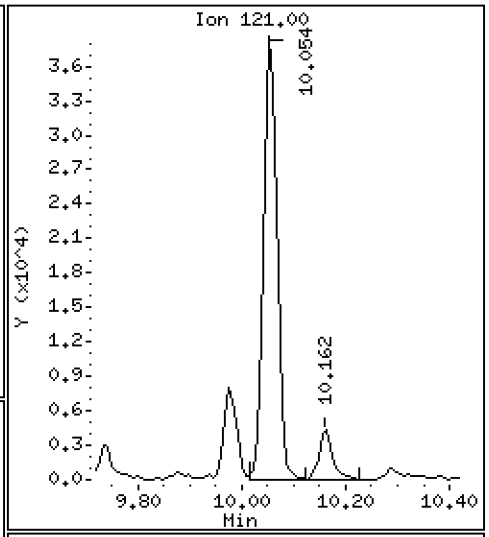
Concentration: 3.777 ug/mL

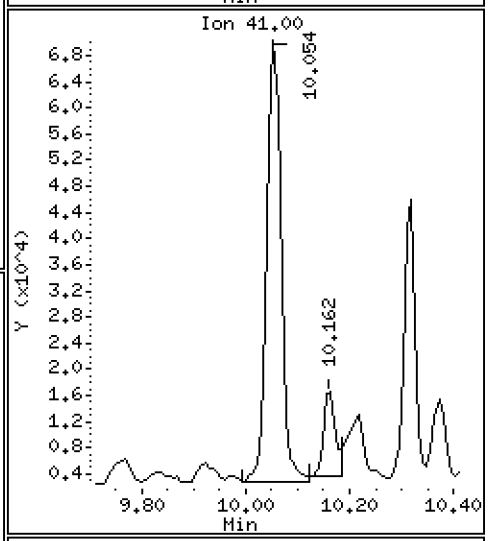


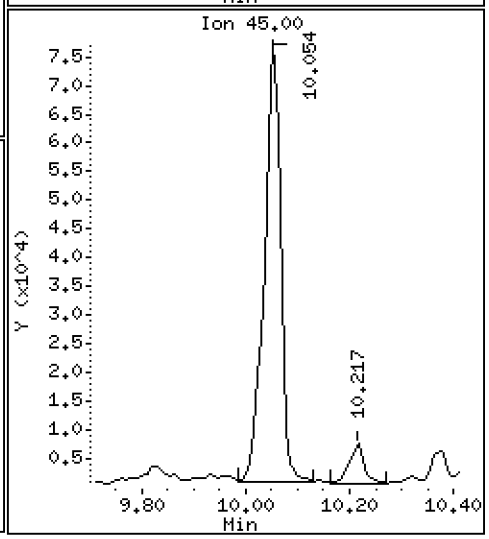












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

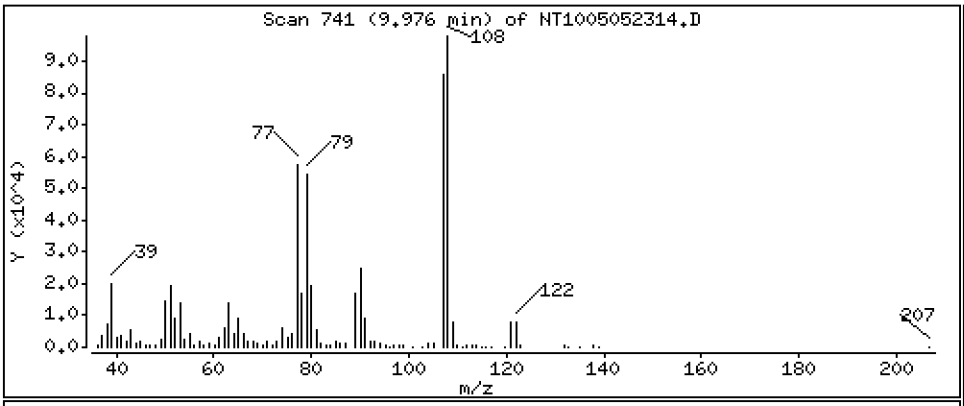
Operator: VTS

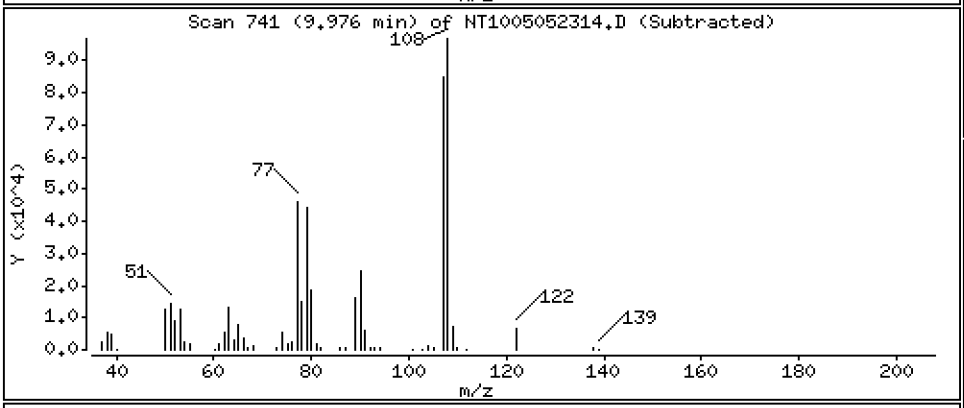
Column phase: ZB-5msi

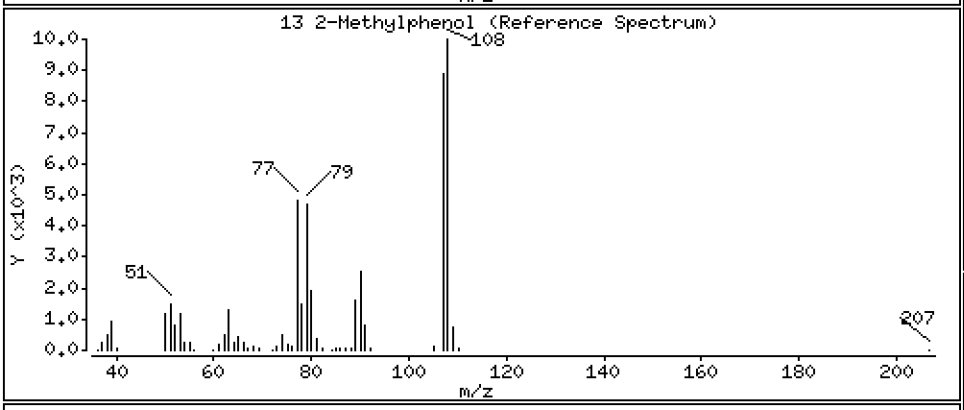
Column diameter: 0.25

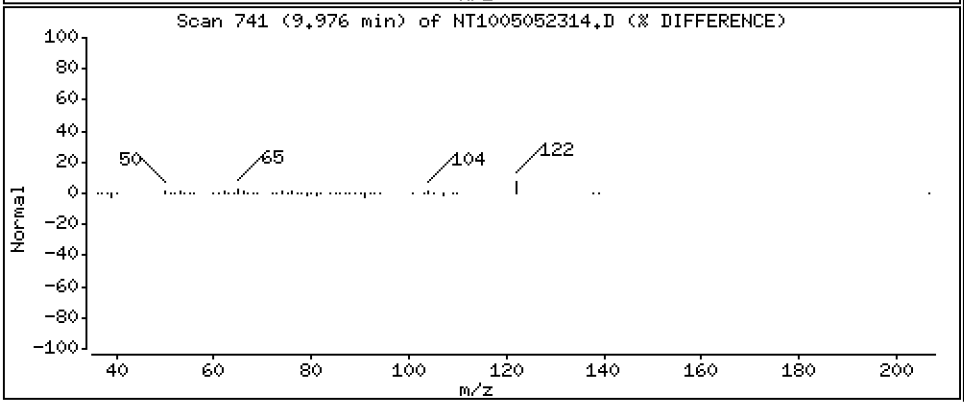
13 2-Methylphenol

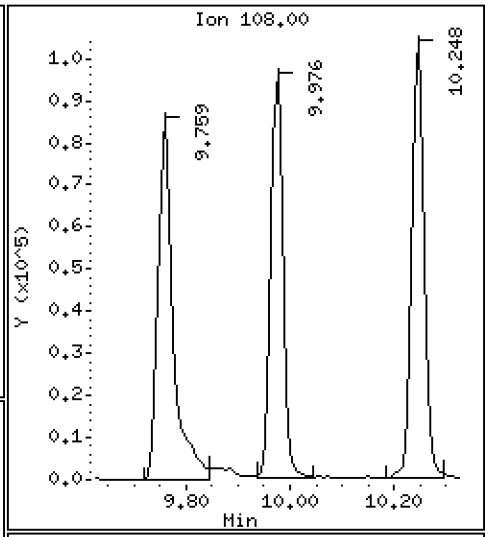
Concentration: 3.088 ug/mL

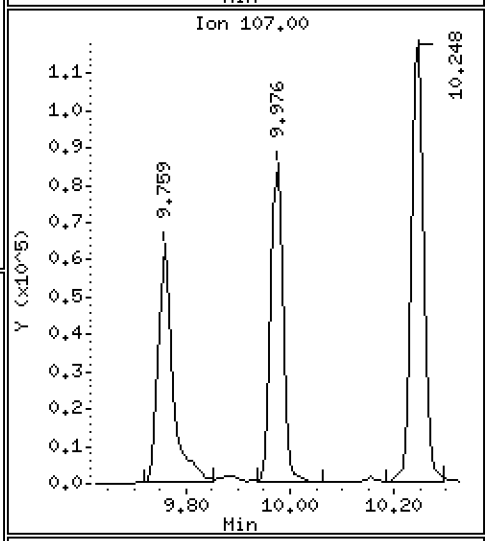


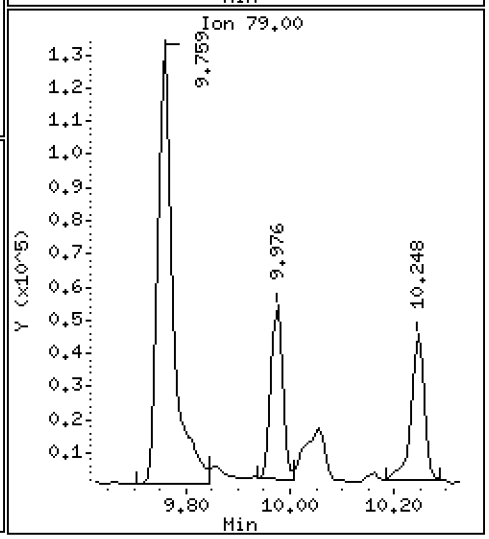












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

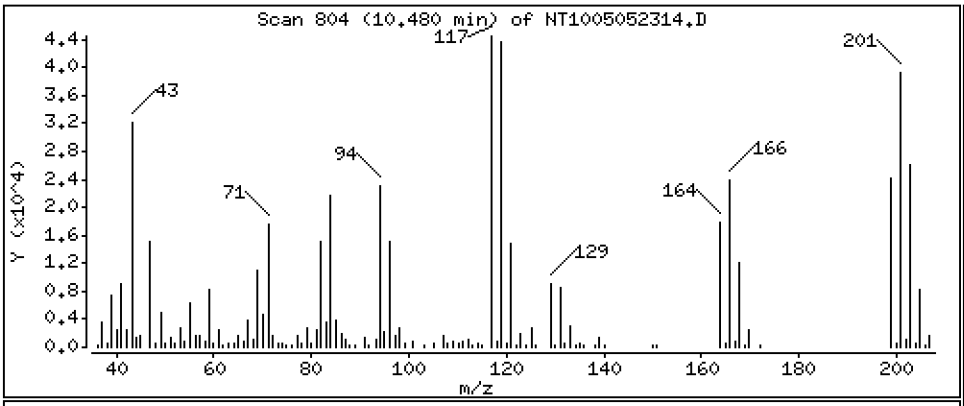
Operator: VTS

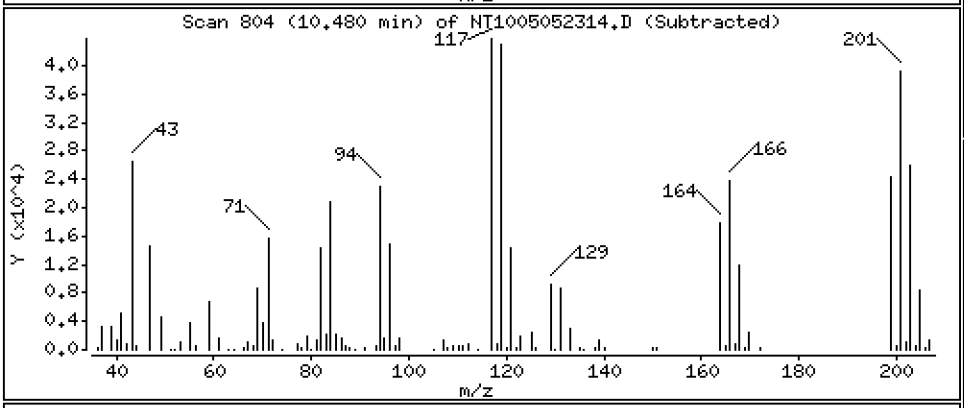
Column phase: ZB-5msi

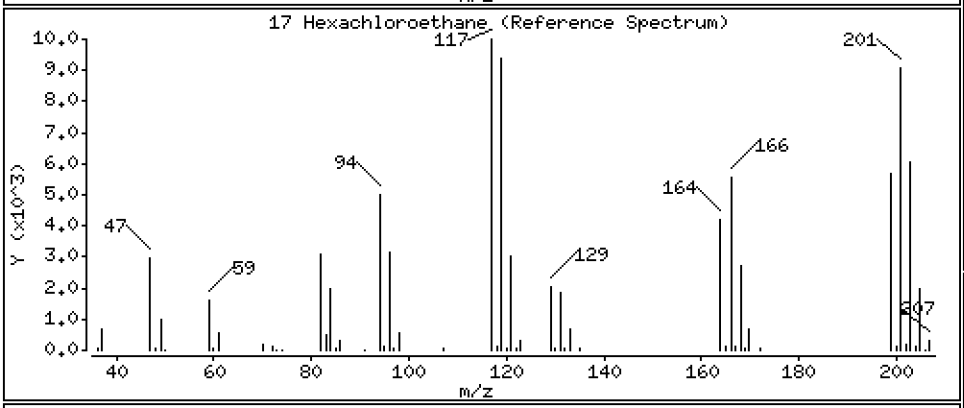
Column diameter: 0.25

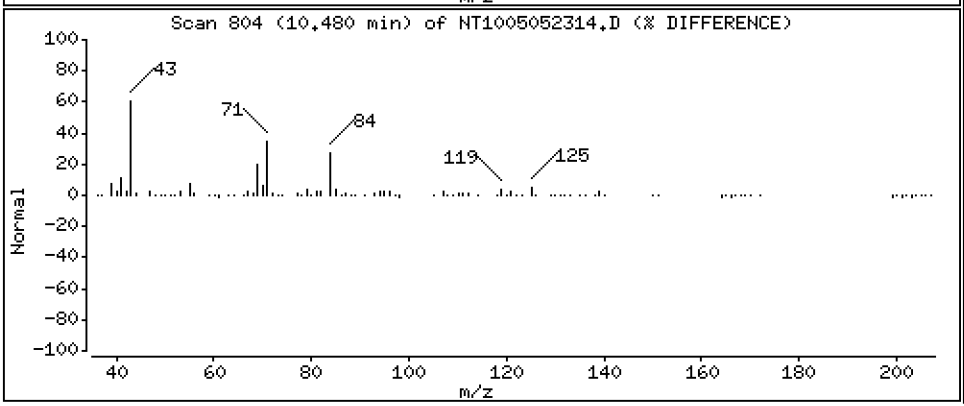
17 Hexachloroethane

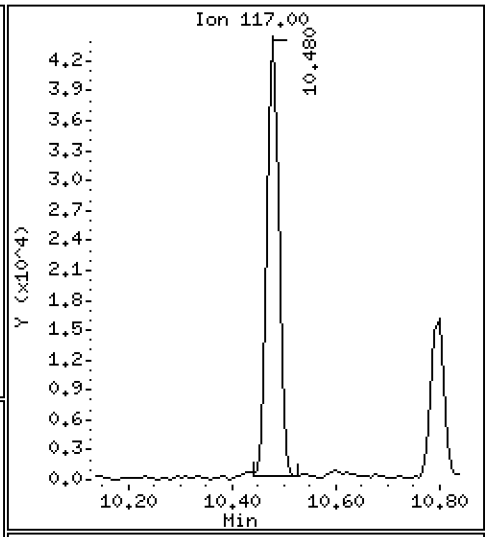
Concentration: 2.426 ug/mL

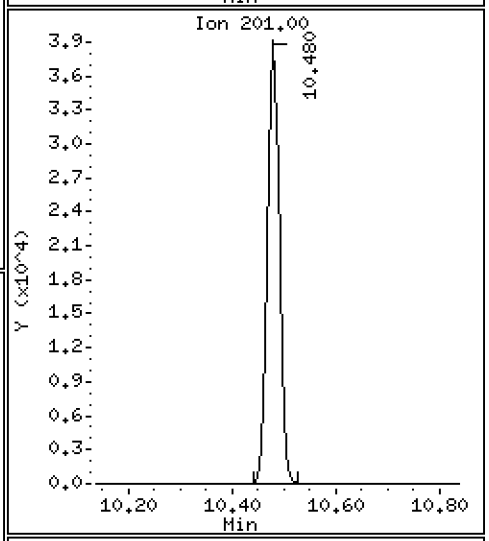


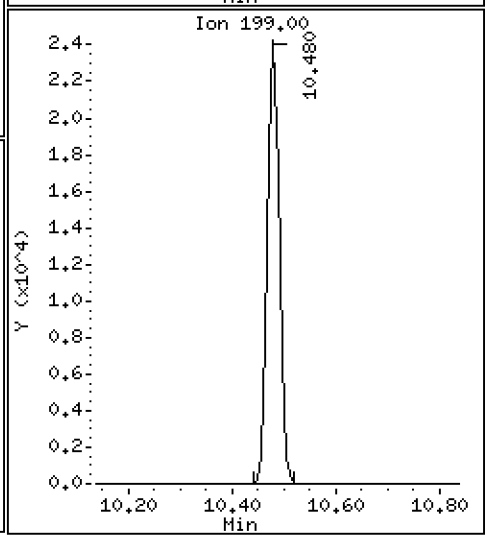












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

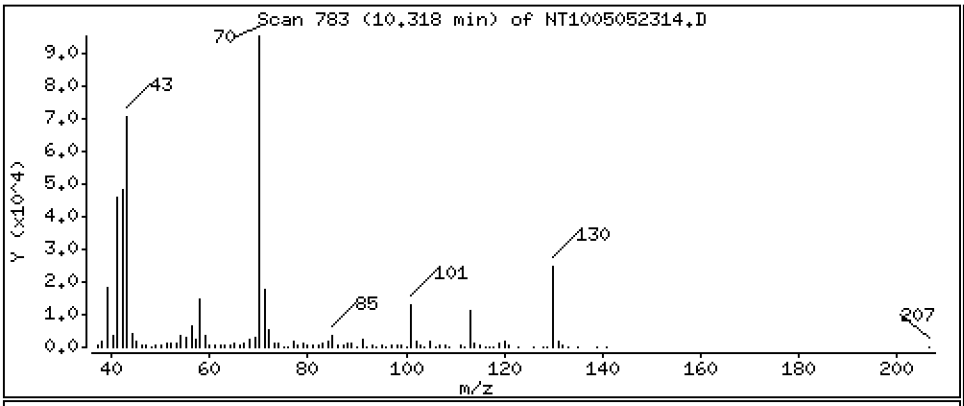
Operator: VTS

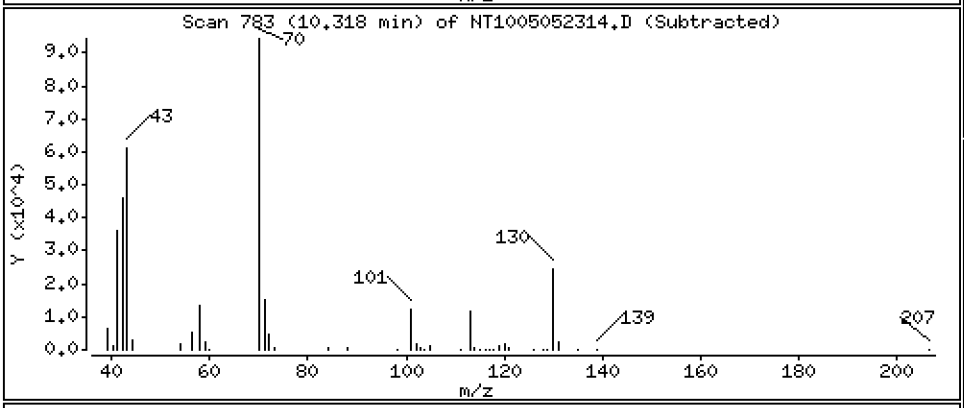
Column phase: ZB-5msi

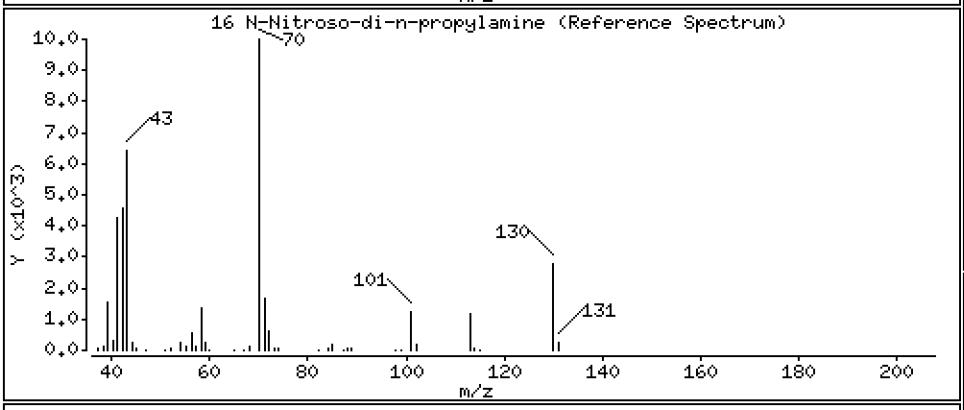
Column diameter: 0.25

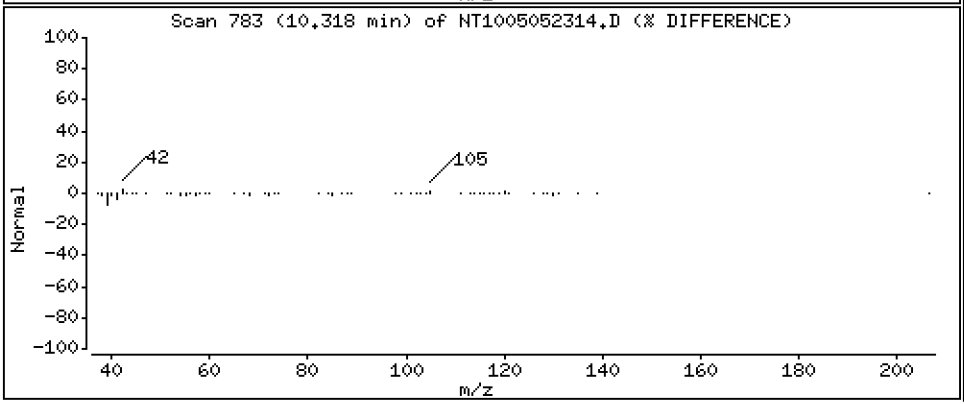
16 N-Nitroso-di-n-propylamine

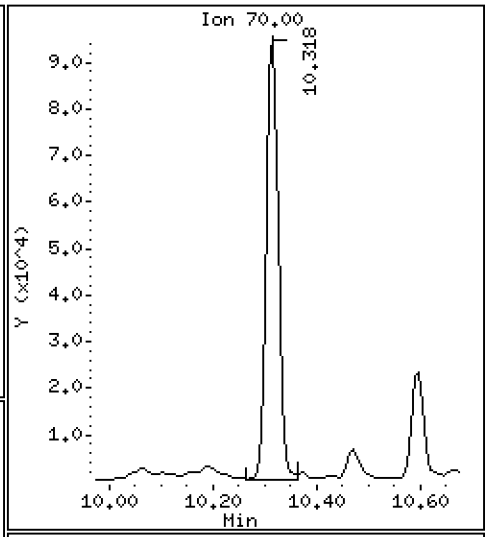
Concentration: 3.797 ug/mL

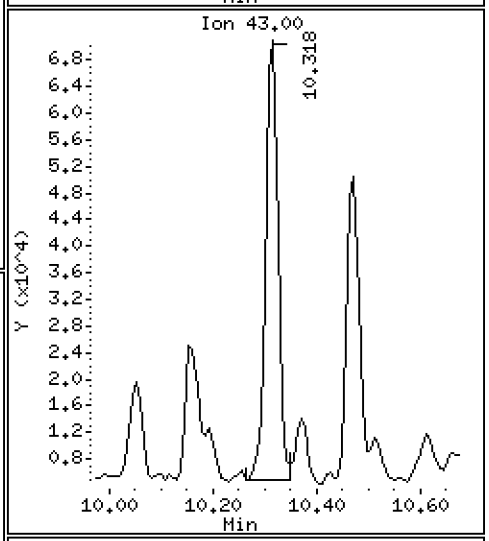


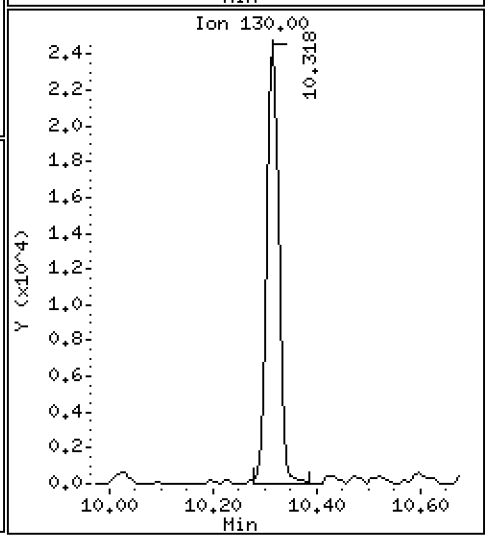












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

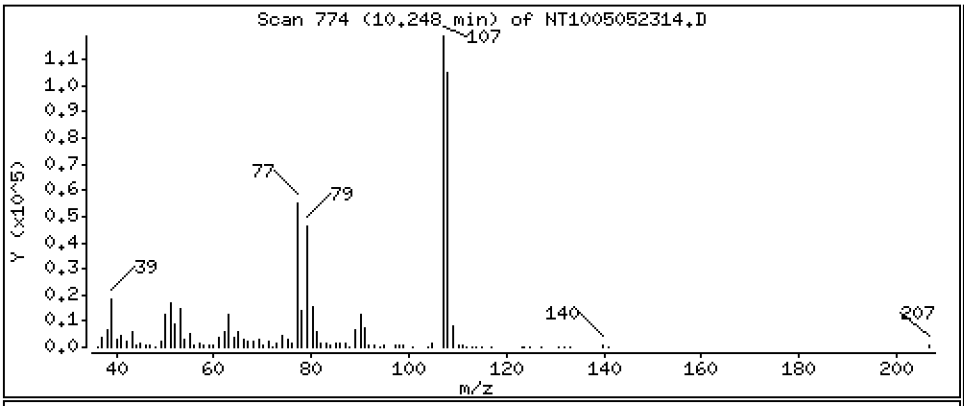
Operator: VTS

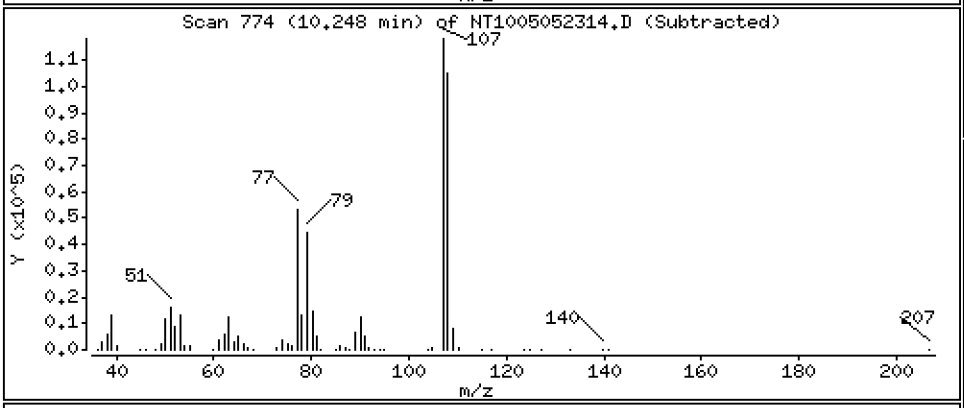
Column phase: ZB-5msi

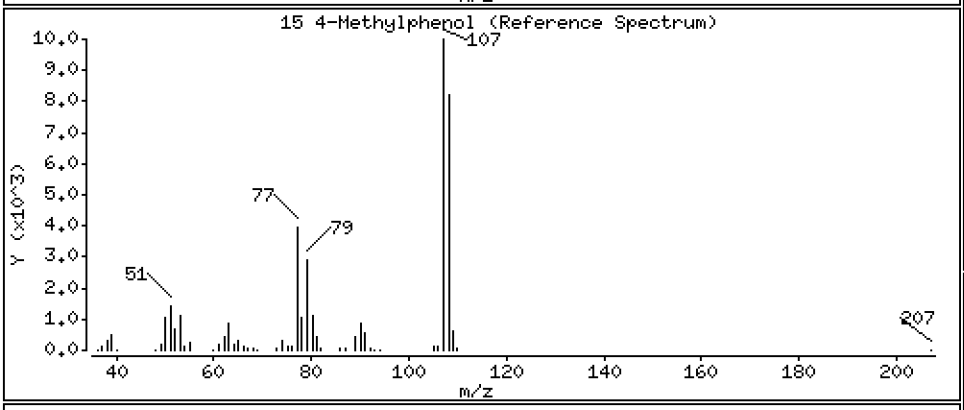
Column diameter: 0.25

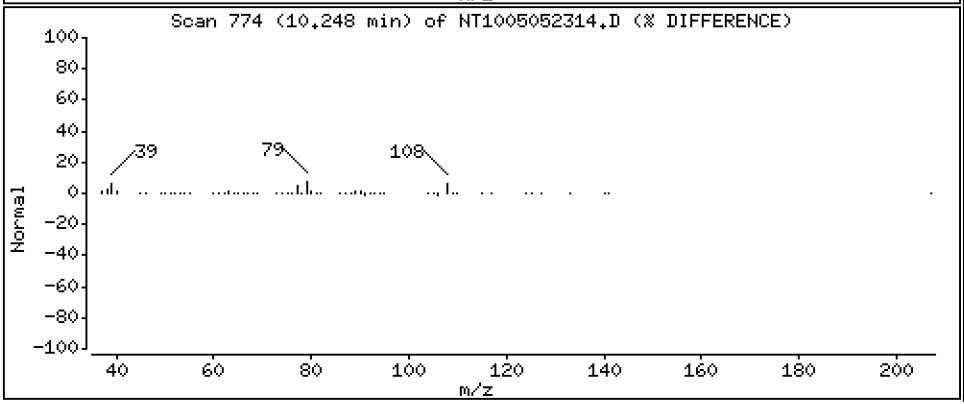
15 4-Methylphenol

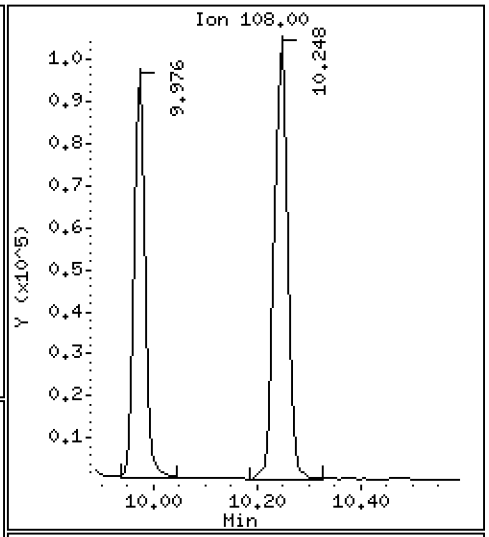
Concentration: 3.536 ug/mL

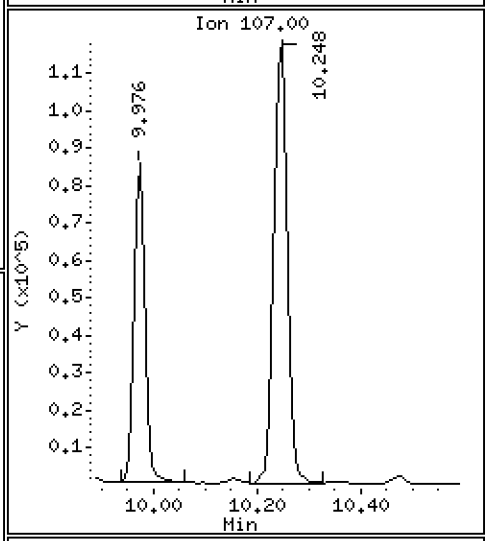


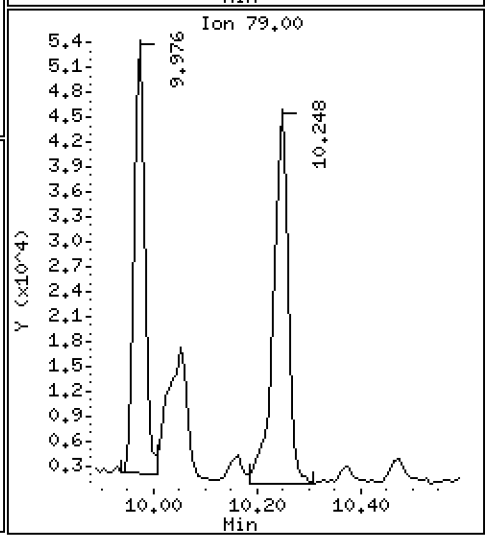












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

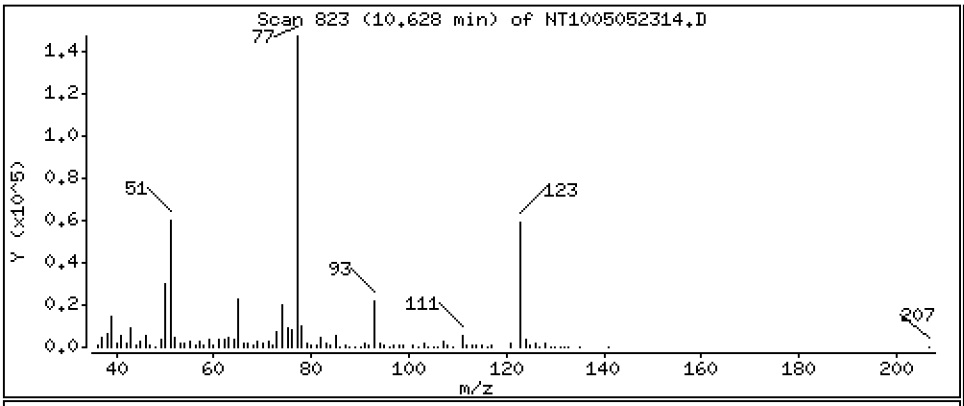
Operator: VTS

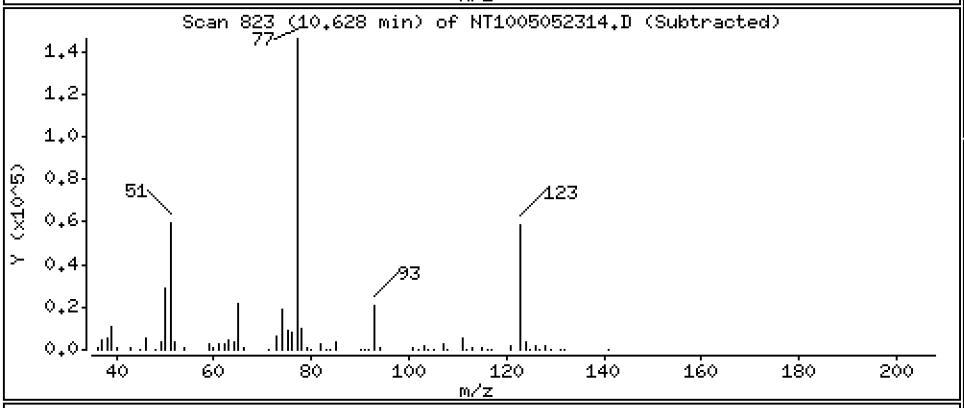
Column phase: ZB-5msi

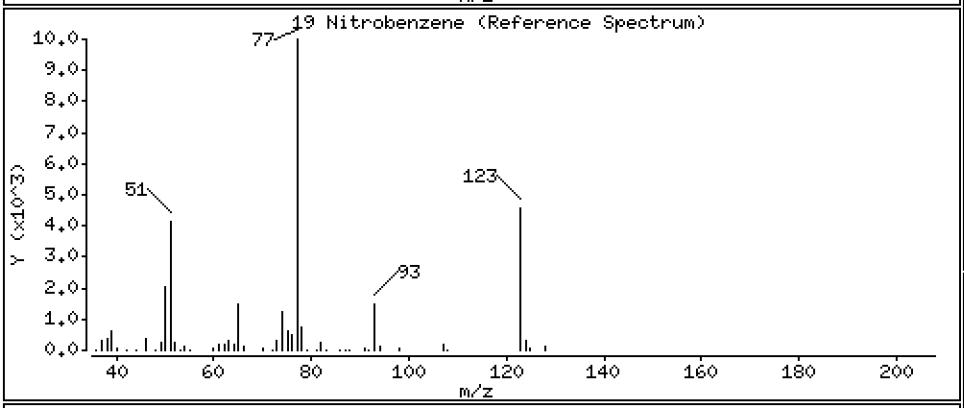
Column diameter: 0.25

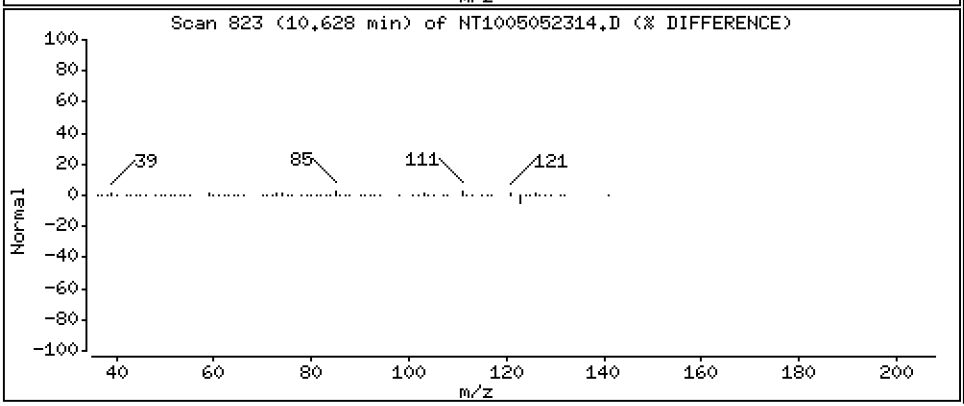
19 Nitrobenzene

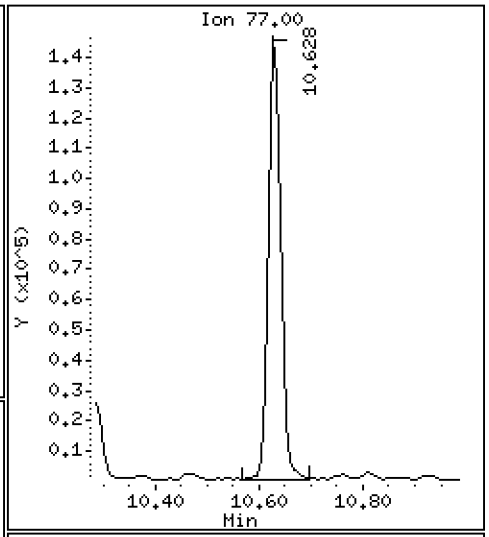
Concentration: 3.573 ug/mL

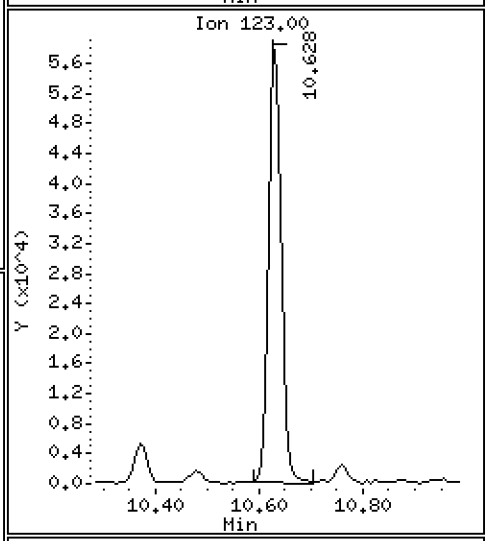


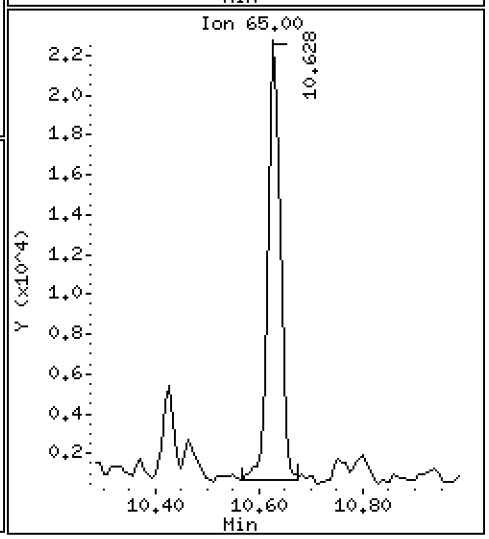












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

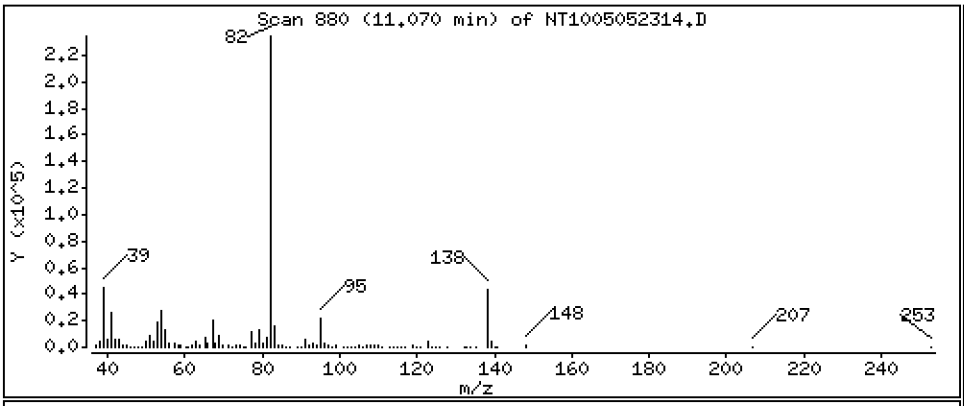
Operator: VTS

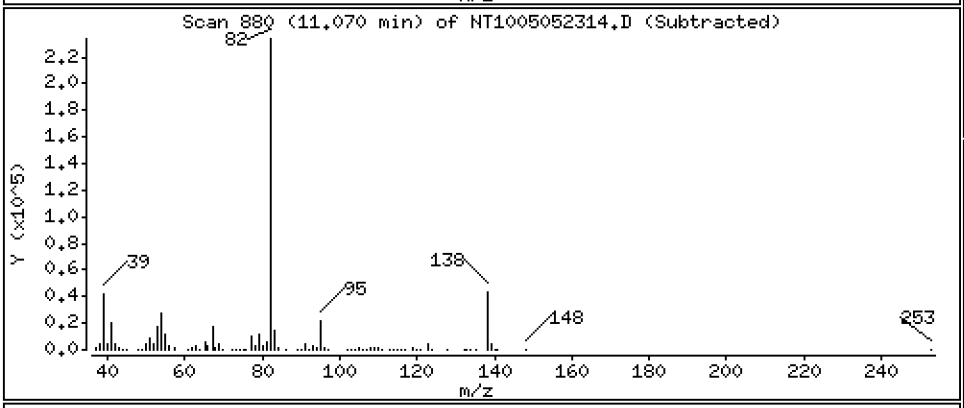
Column phase: ZB-5msi

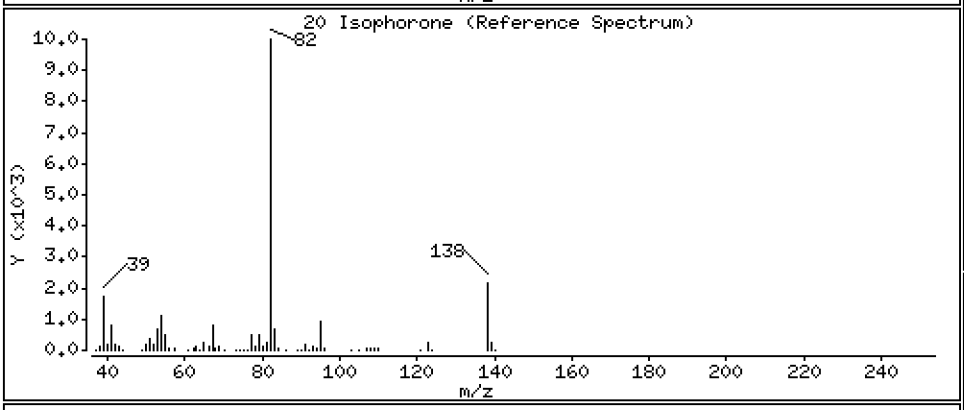
Column diameter: 0.25

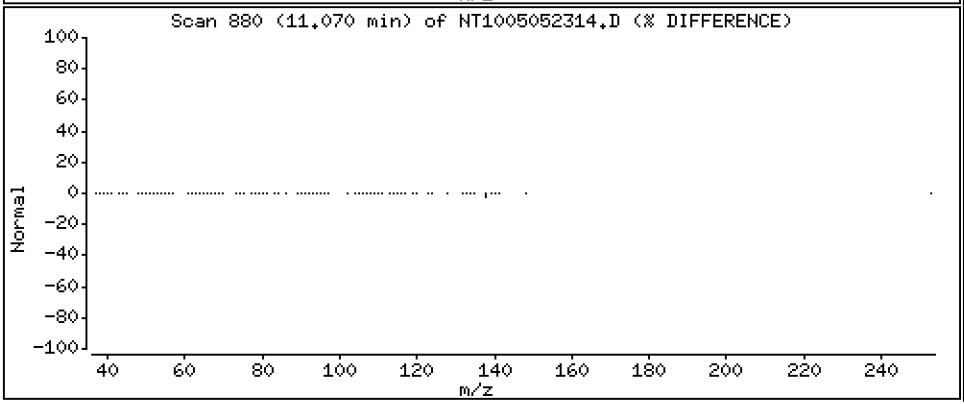
20 Isophorone

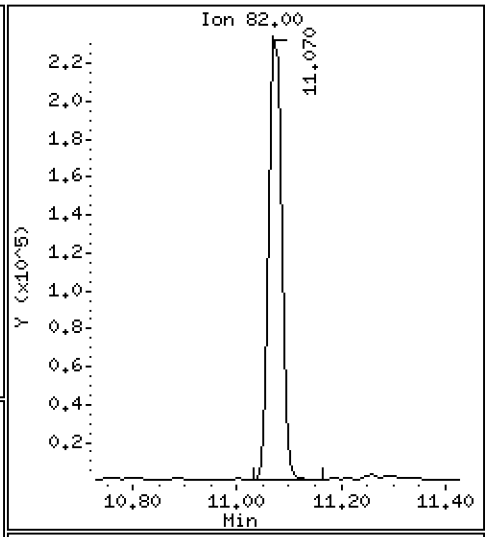
Concentration: 5.587 ug/mL

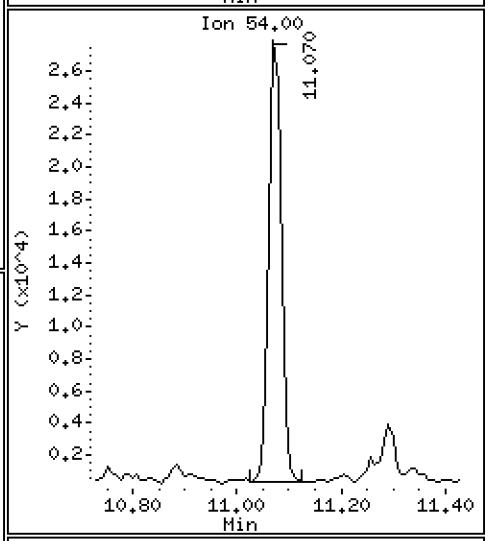


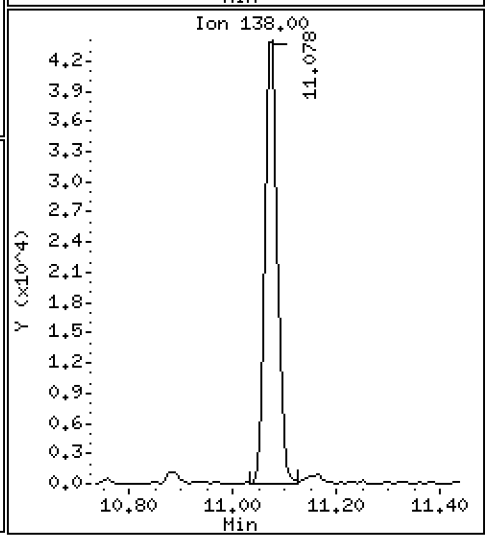












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

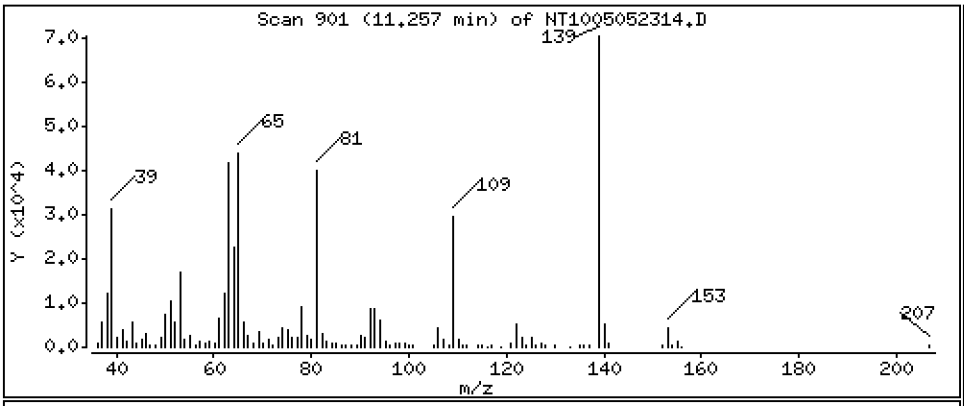
Operator: VTS

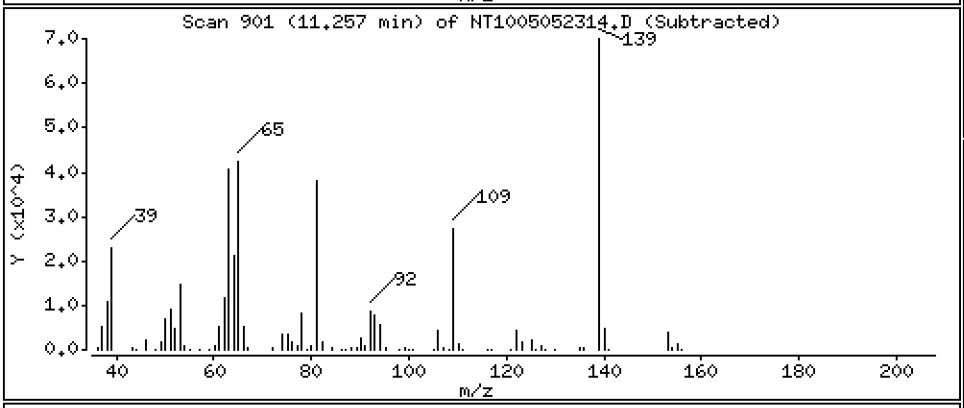
Column phase: ZB-5msi

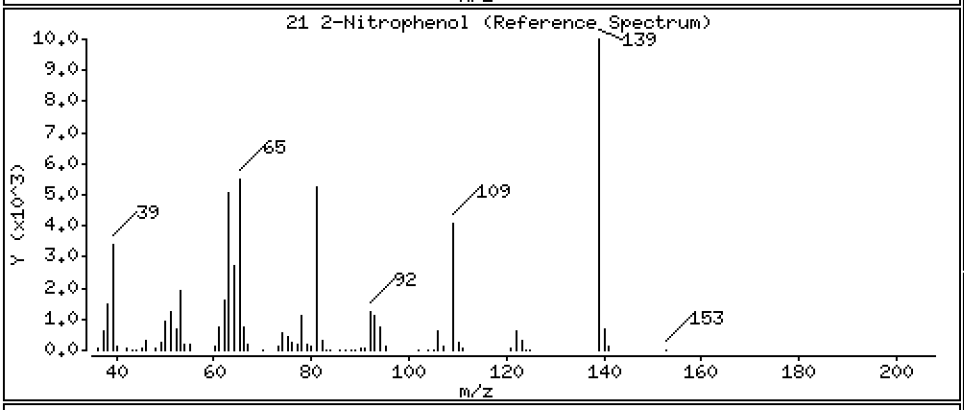
Column diameter: 0.25

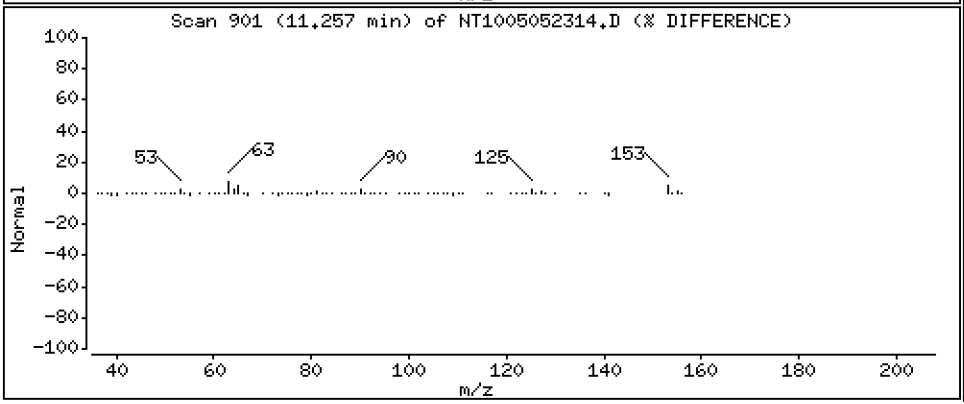
21 2-Nitrophenol

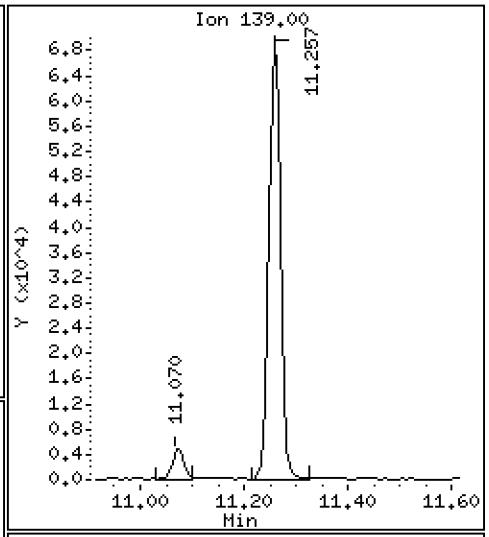
Concentration: 3.187 ug/mL

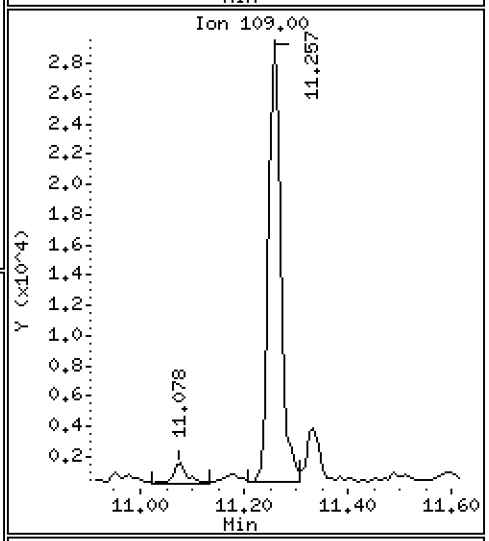


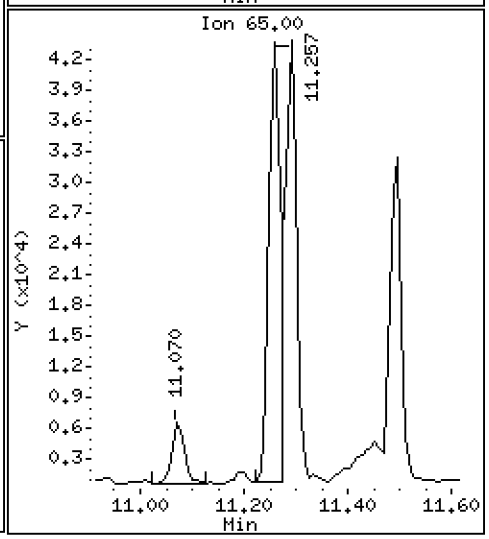












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

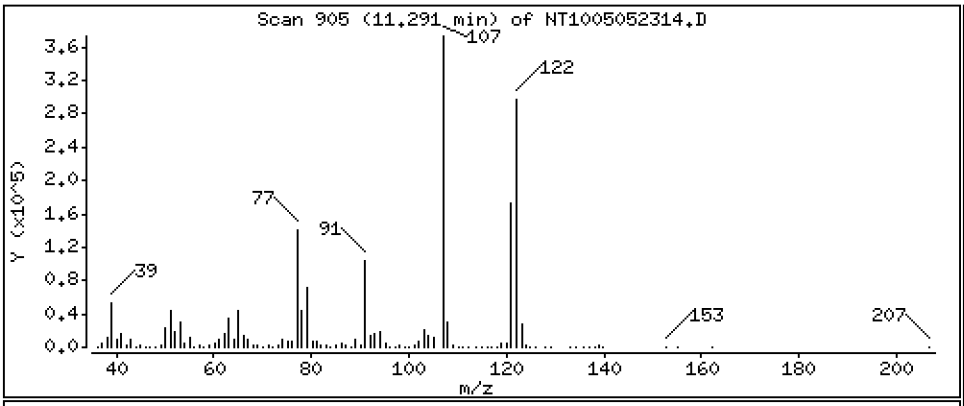
Operator: VTS

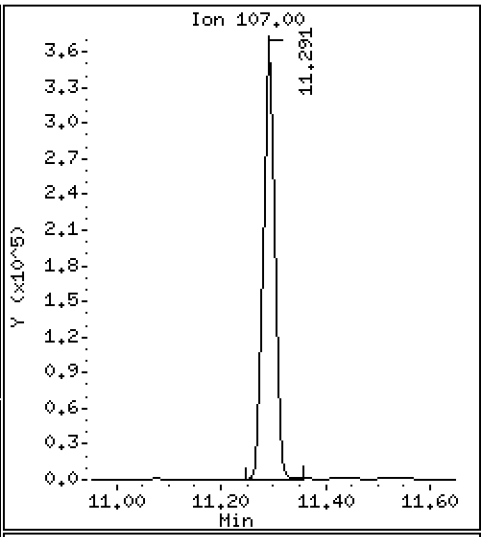
Column phase: ZB-5msi

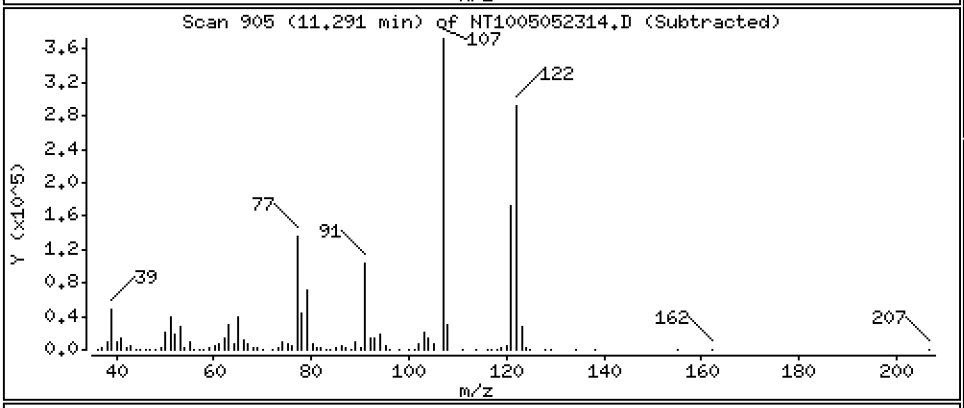
Column diameter: 0.25

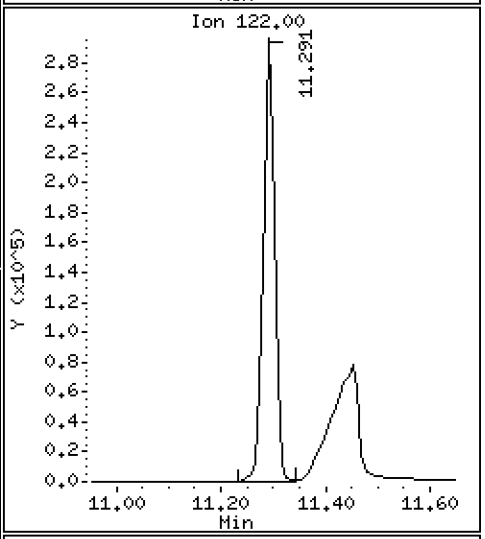
22 2,4-Dimethylphenol

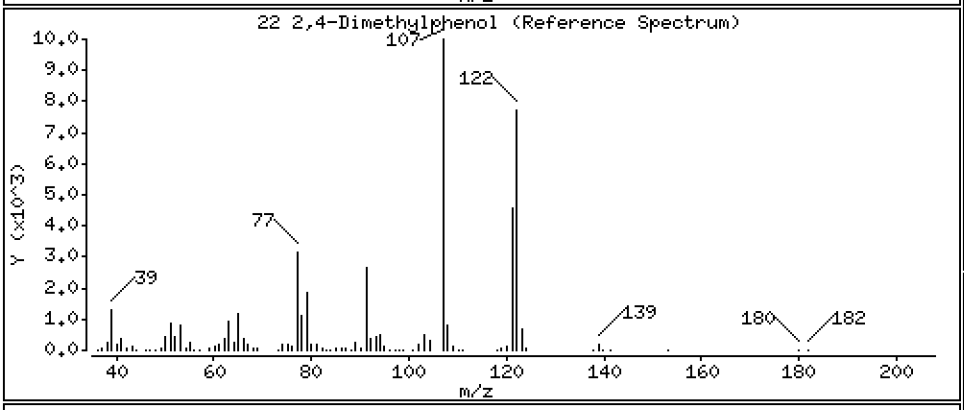
Concentration: 8.740 ug/mL

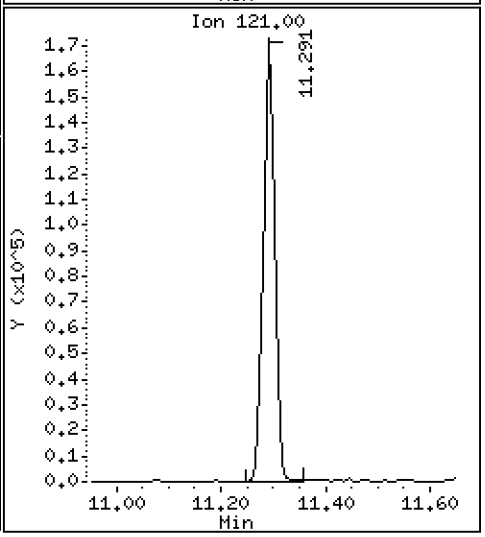


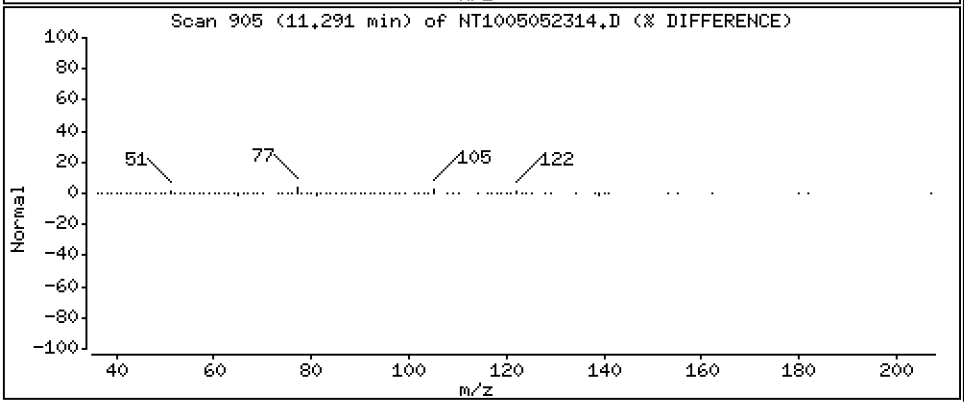












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

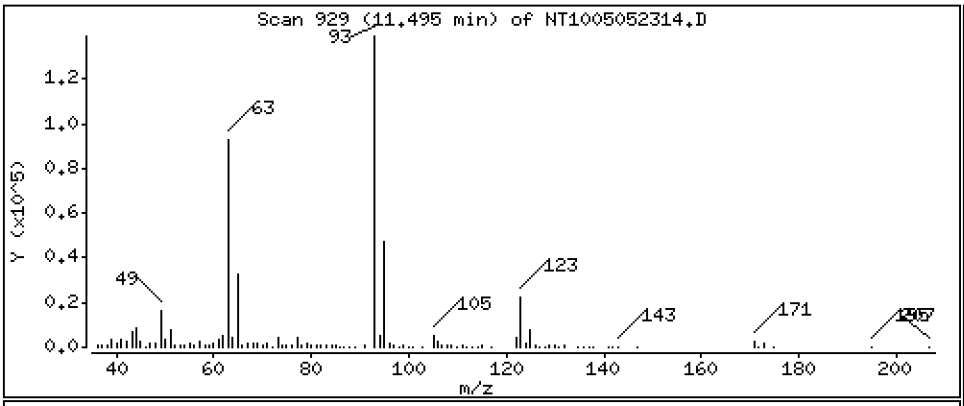
Operator: VTS

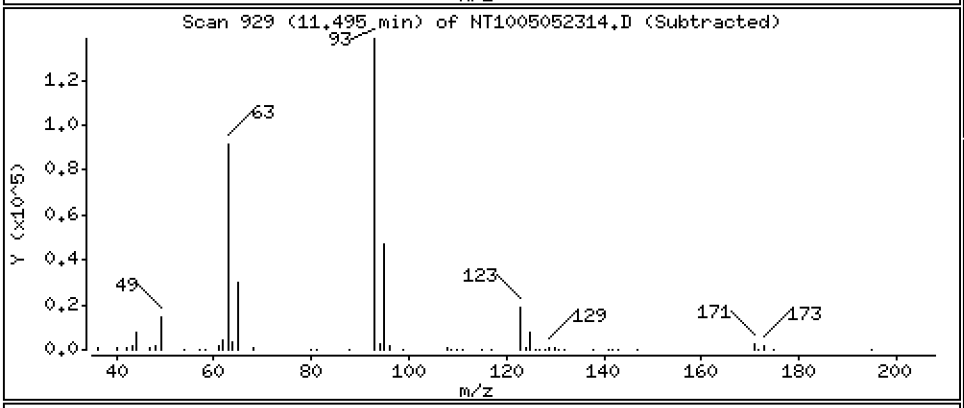
Column phase: ZB-5msi

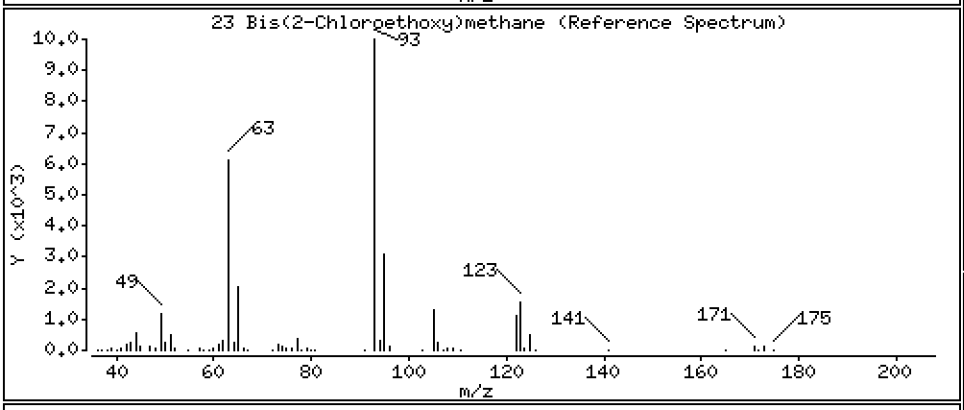
Column diameter: 0.25

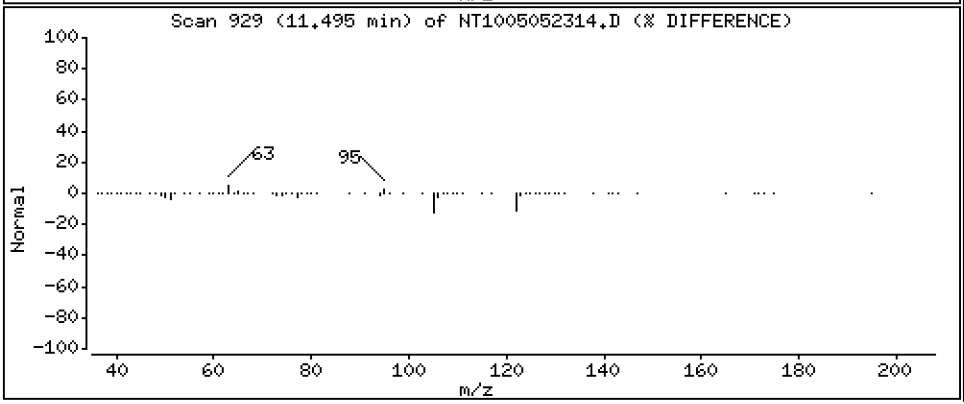
23 Bis(2-Chloroethoxy)methane

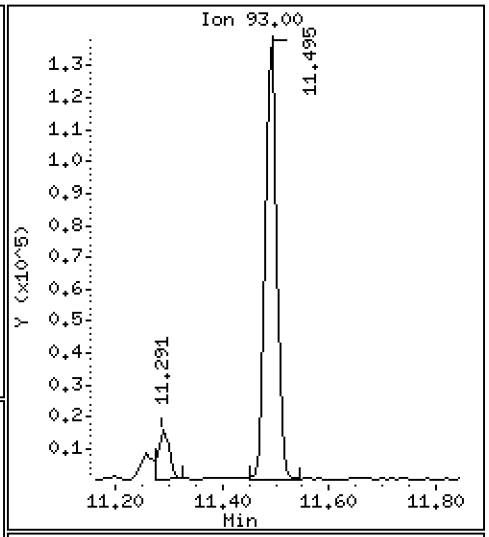
Concentration: 4.213 ug/mL

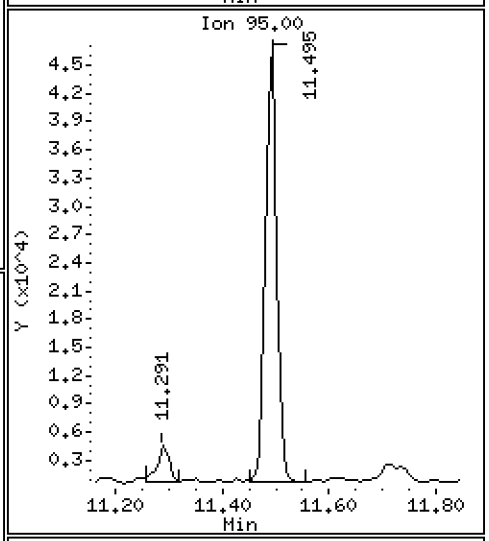


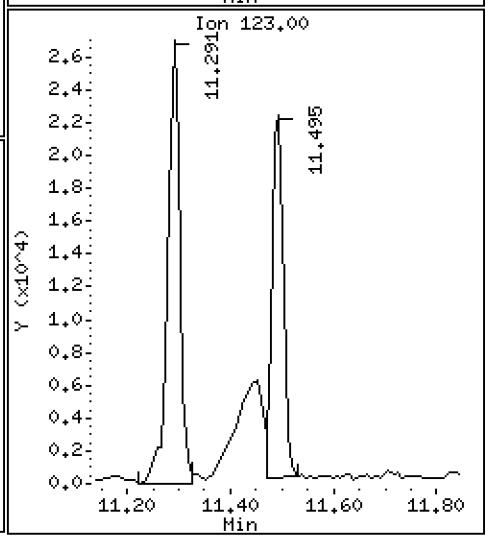












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

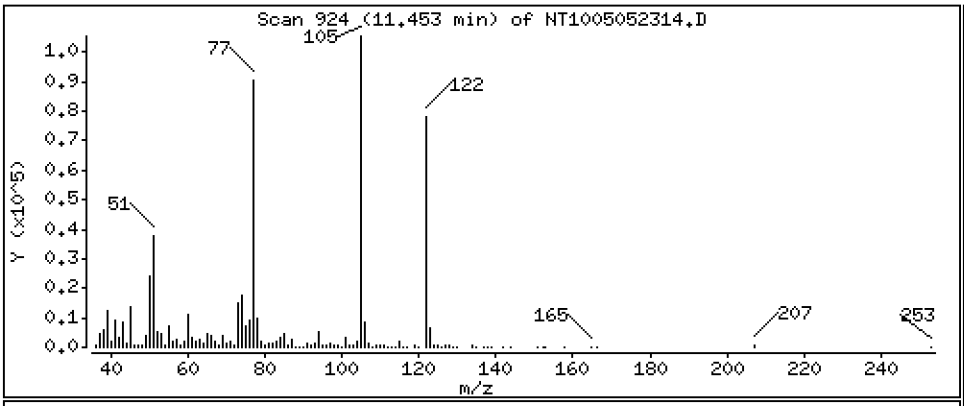
Operator: VTS

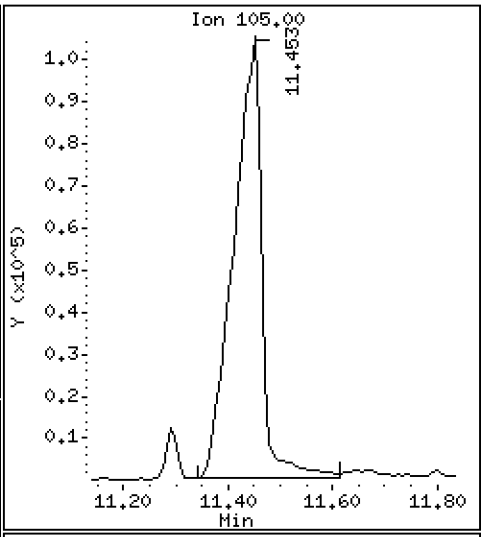
Column phase: ZB-5msi

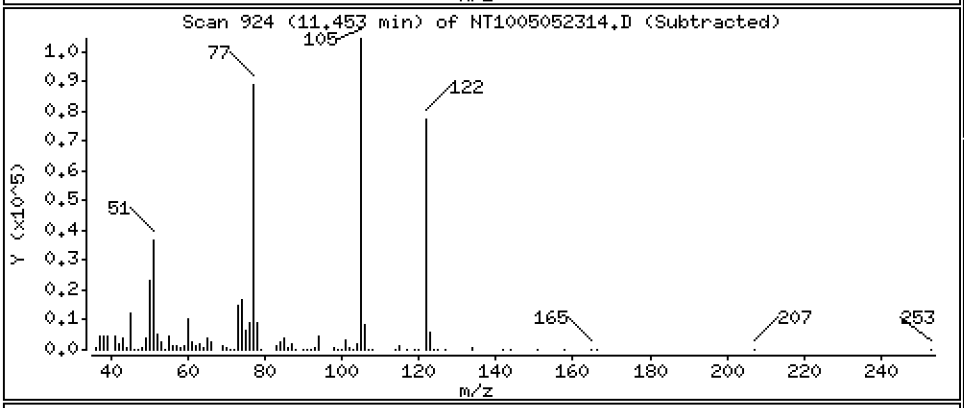
Column diameter: 0.25

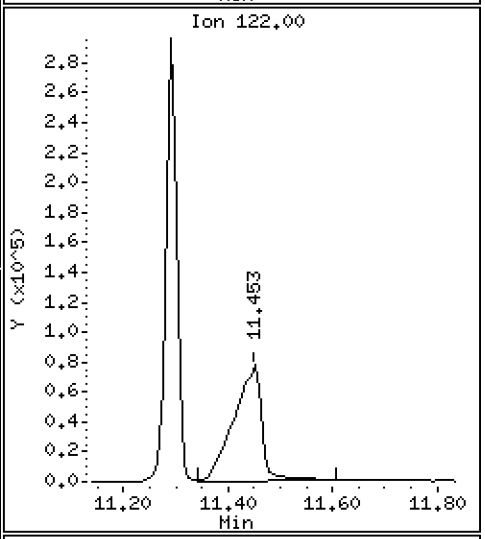
24 Benzoic acid

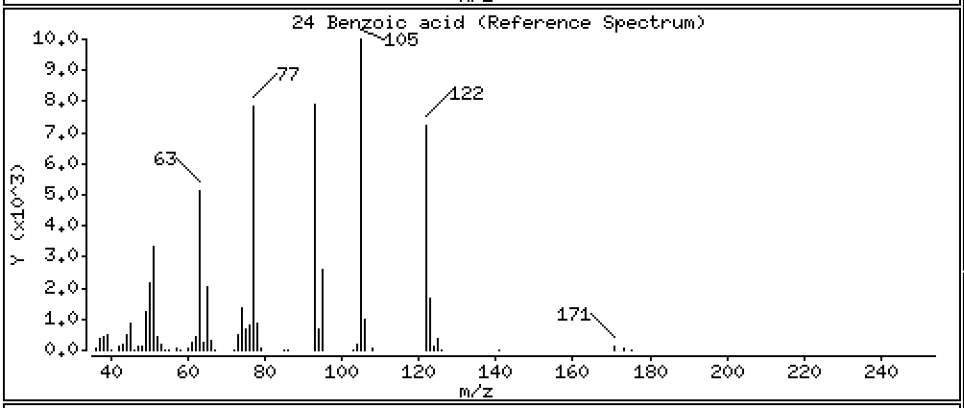
Concentration: 8.949 ug/mL

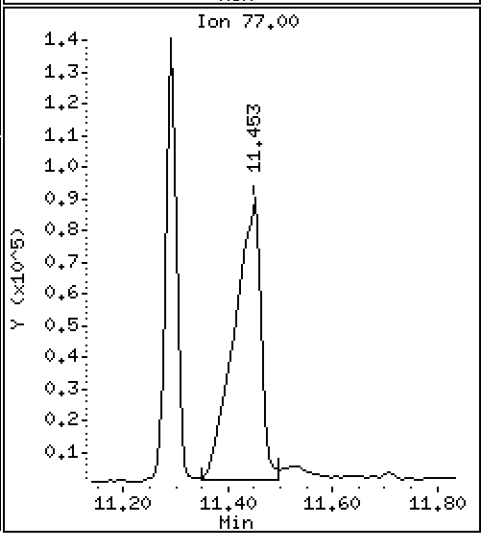


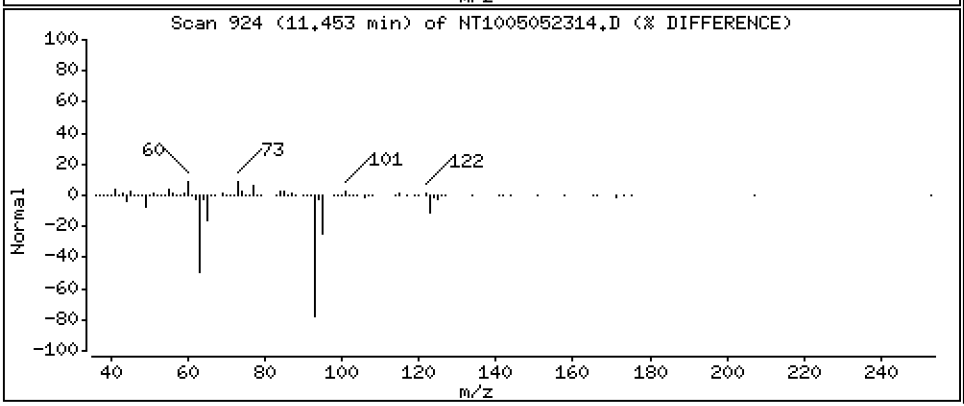












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

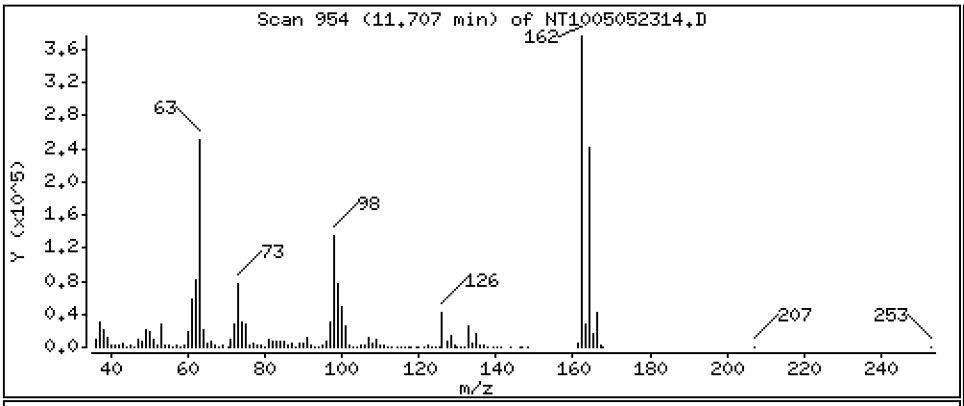
Operator: VTS

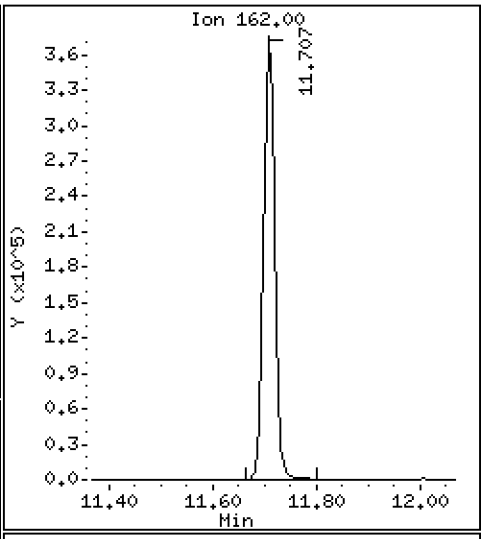
Column phase: ZB-5msi

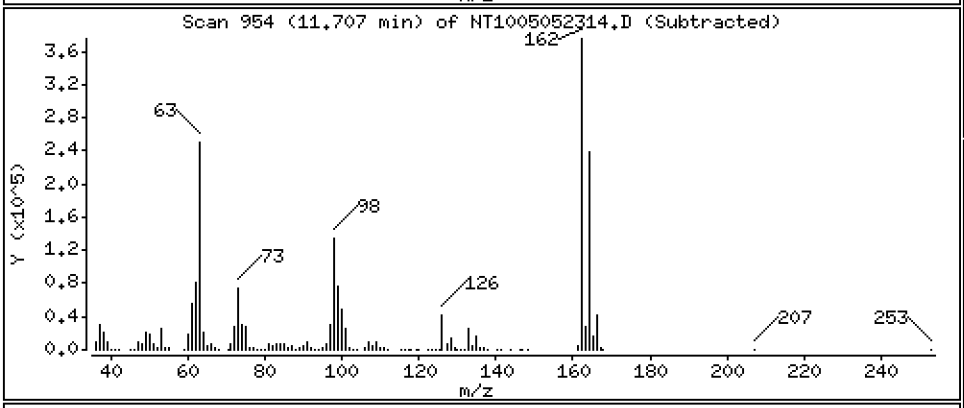
Column diameter: 0.25

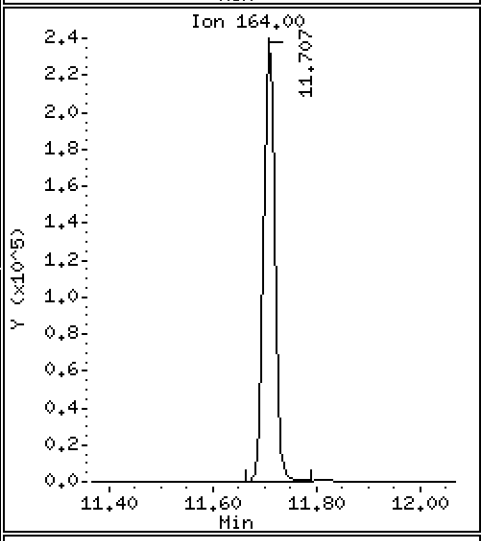
25 2,4-Dichlorophenol

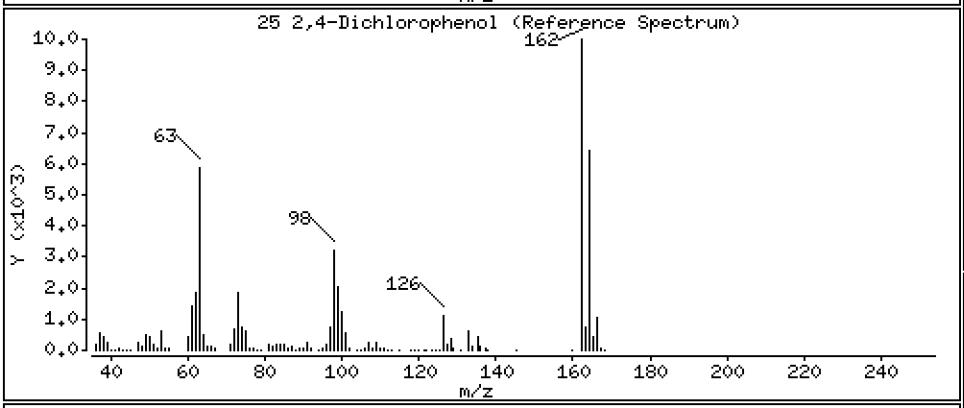
Concentration: 11.36 ug/mL

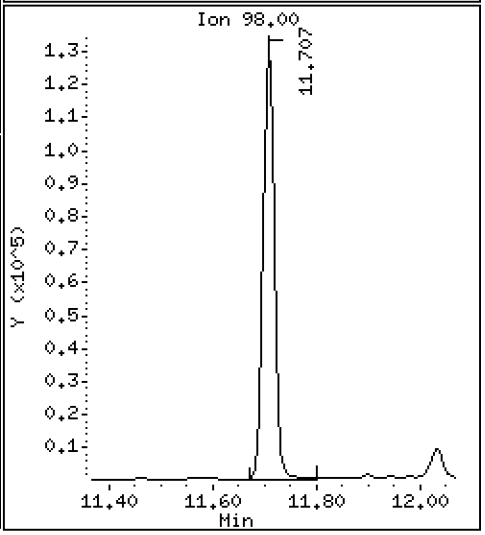


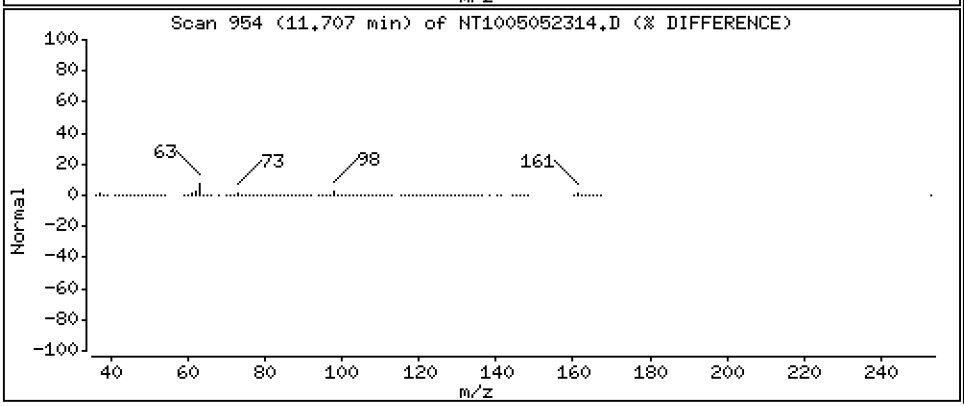












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

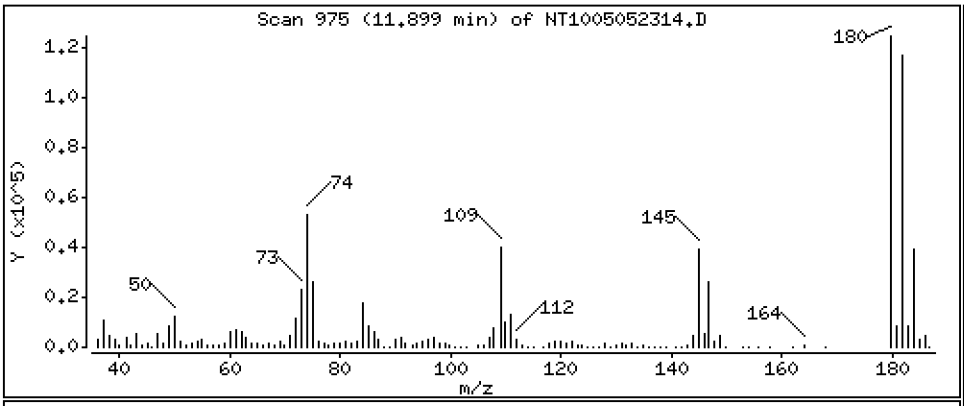
Operator: VTS

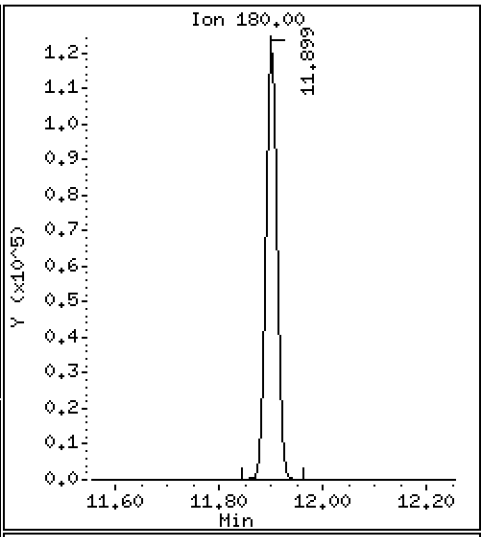
Column phase: ZB-5msi

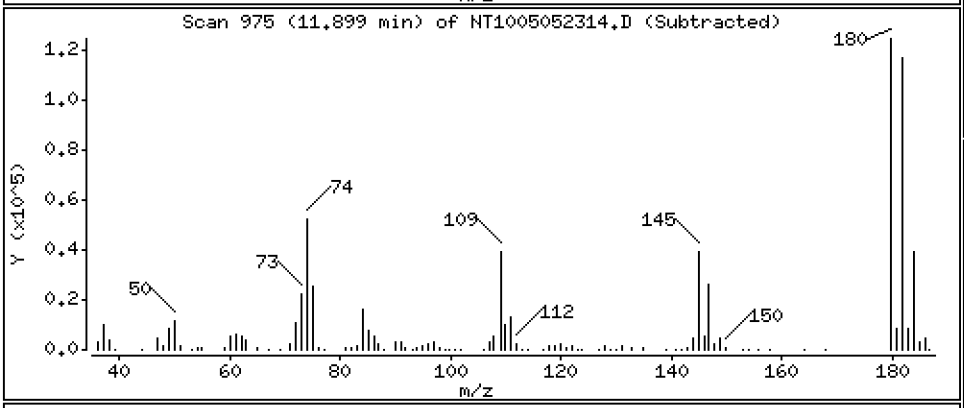
Column diameter: 0.25

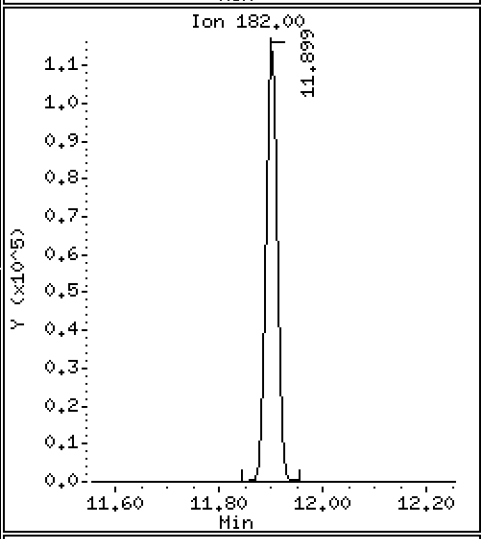
26 1,2,4-Trichlorobenzene

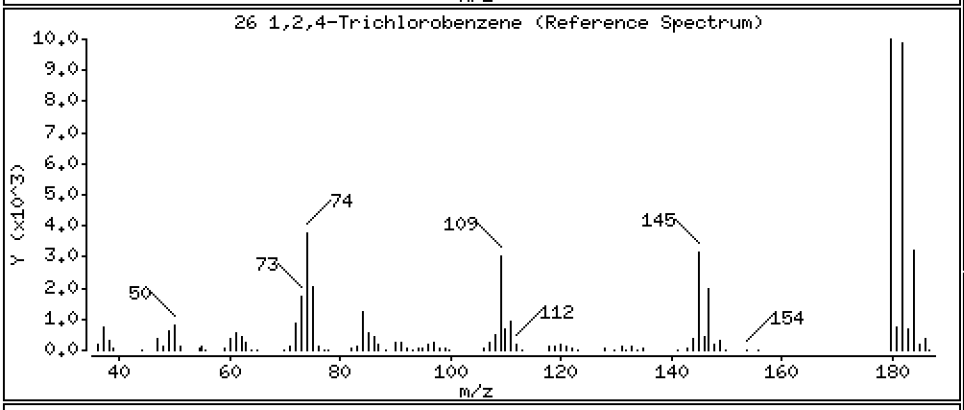
Concentration: 3.120 ug/mL

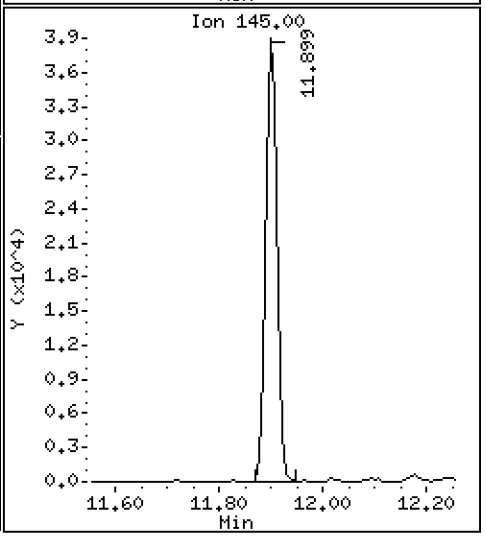


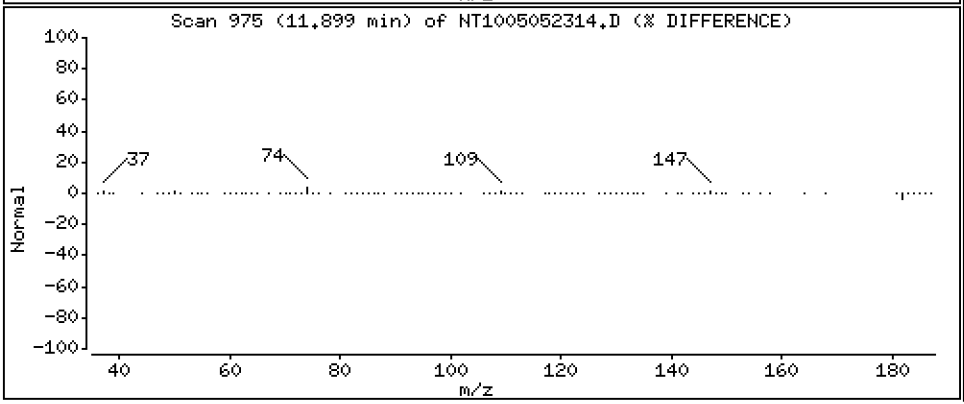












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

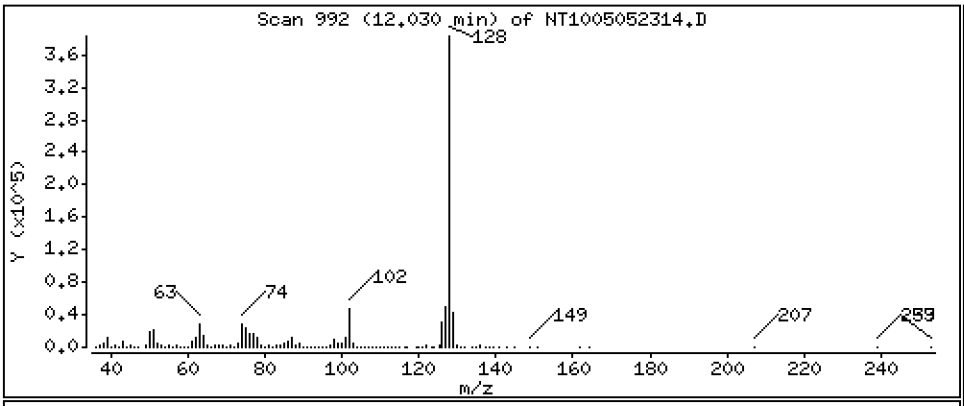
Operator: VTS

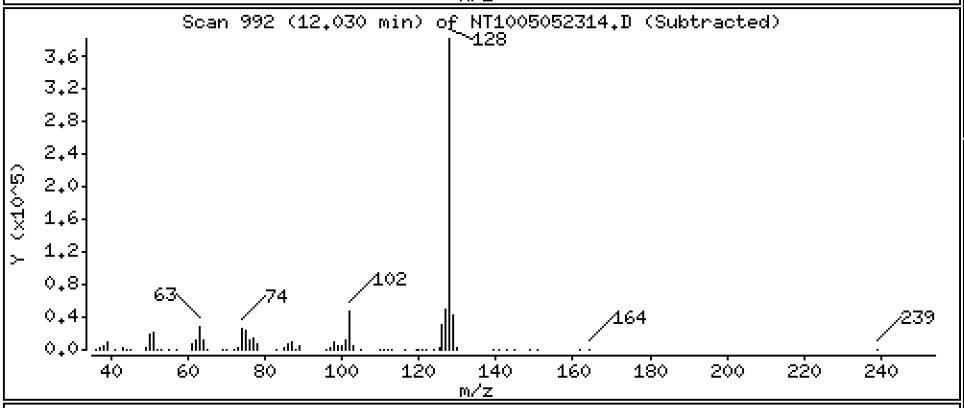
Column phase: ZB-5msi

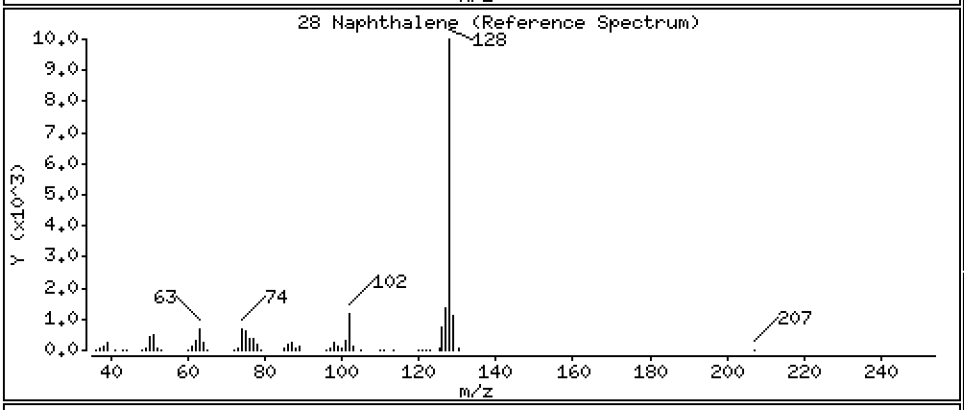
Column diameter: 0.25

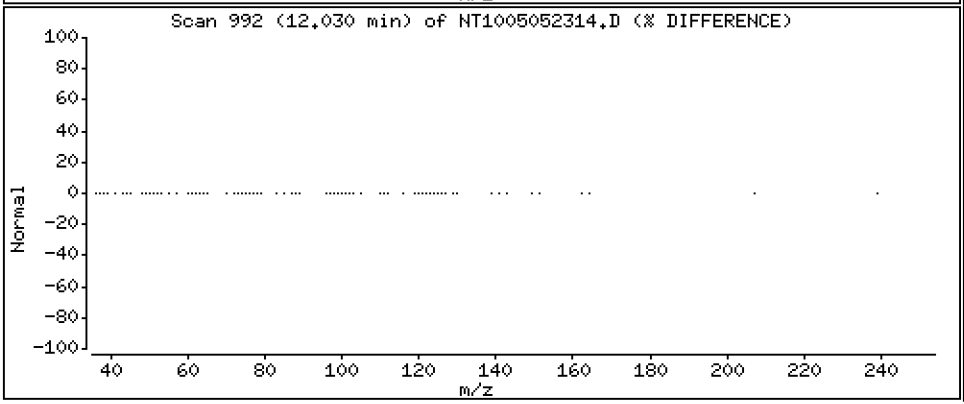
28 Naphthalene

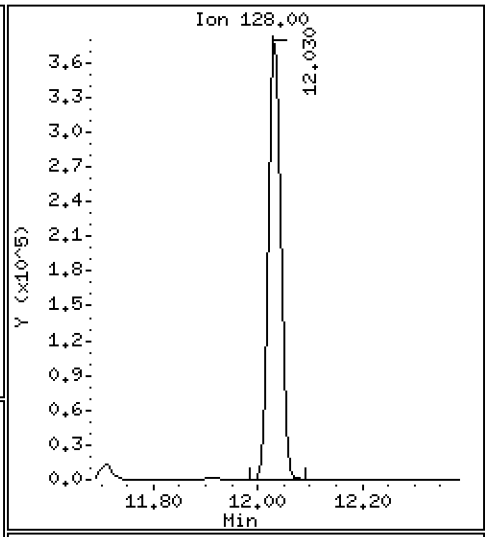
Concentration: 3.558 ug/mL

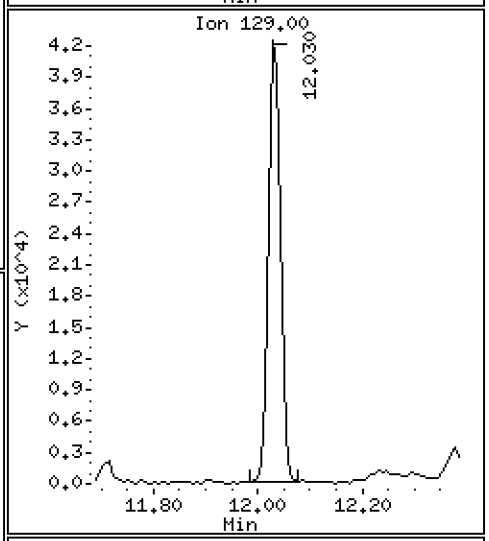


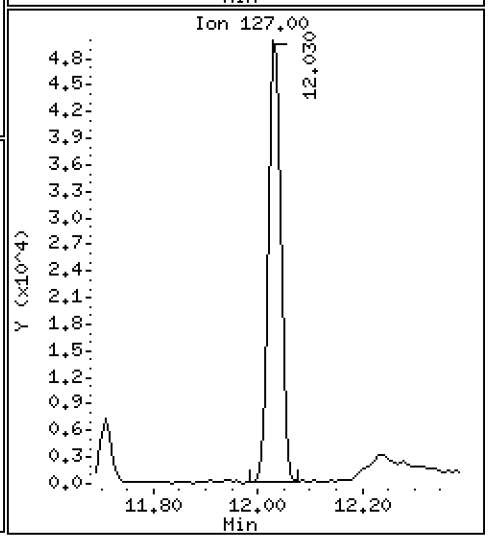












Date : 05-MAY-2023 19:11

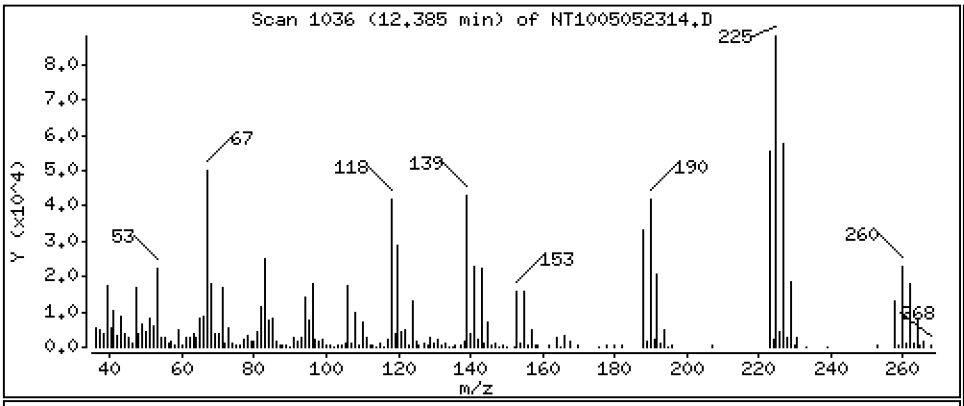
Client ID: Instrument: nt10.i

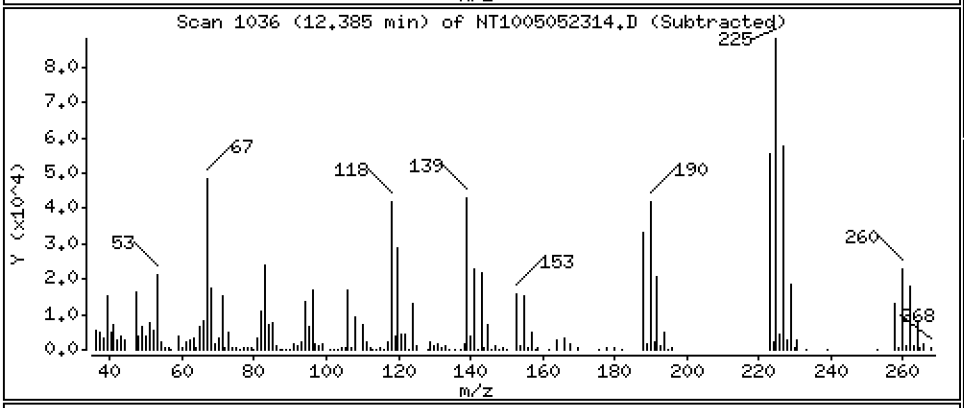
Sample Info: BLD0329-MSD1

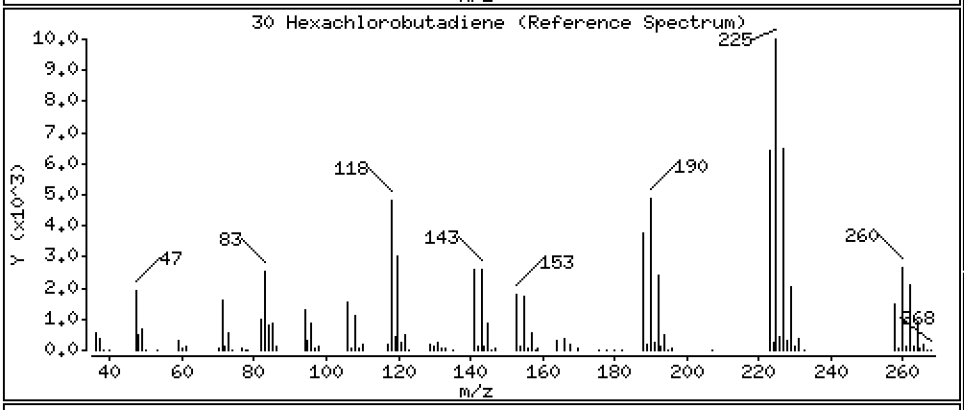
Operator: VTS

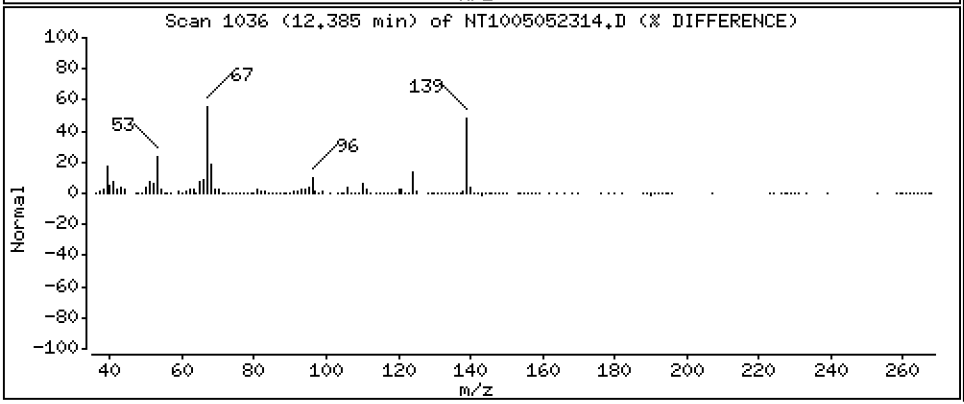
Column phase: ZB-5msi Column diameter: 0.25

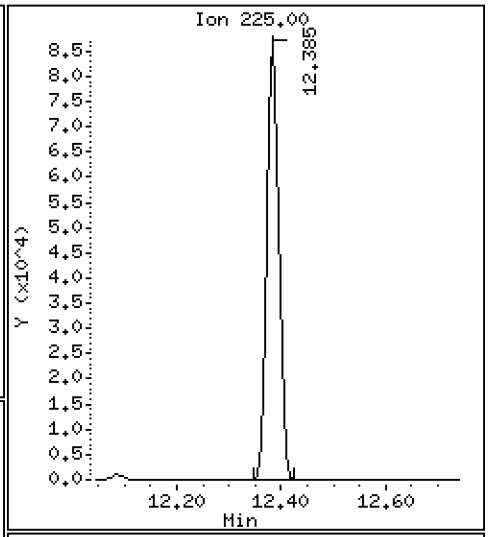
30 Hexachlorobutadiene Concentration: 3.430 ug/mL

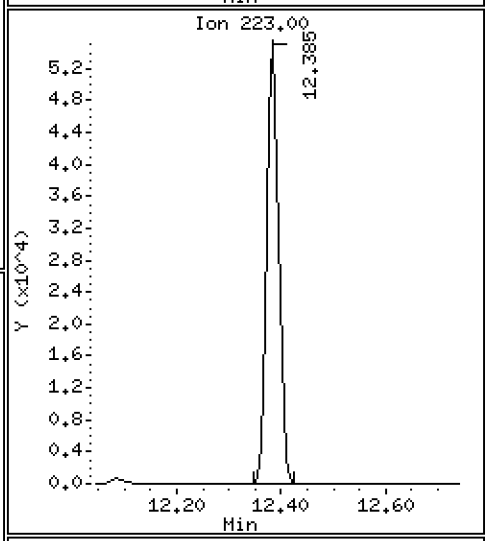


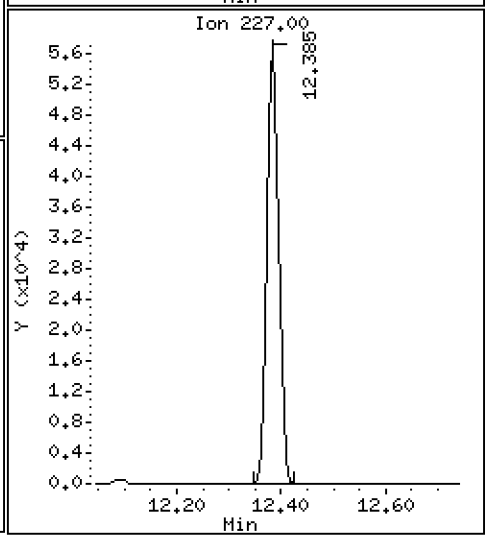












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

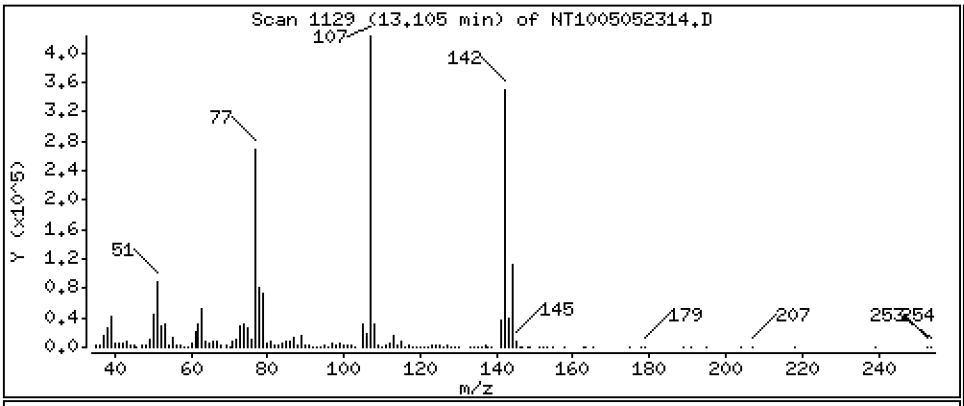
Operator: VTS

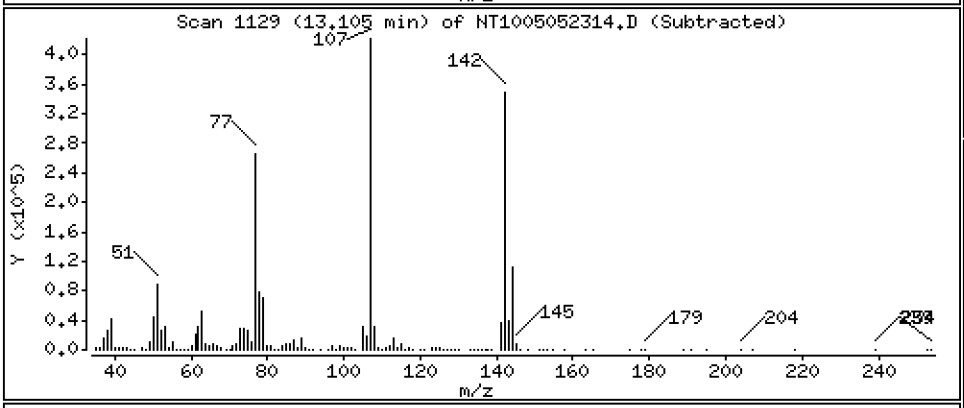
Column phase: ZB-5msi

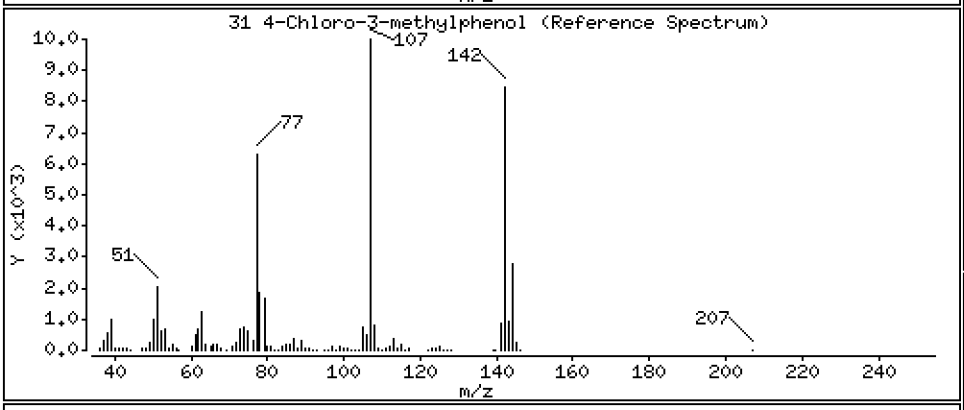
Column diameter: 0.25

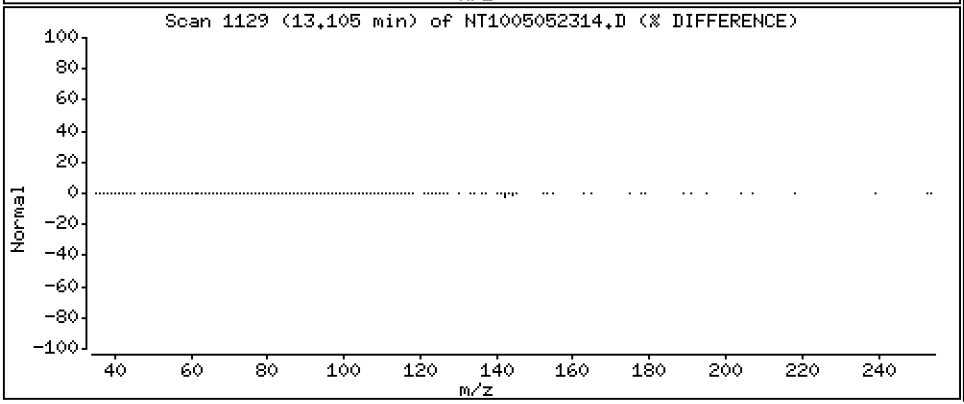
31 4-Chloro-3-methylphenol

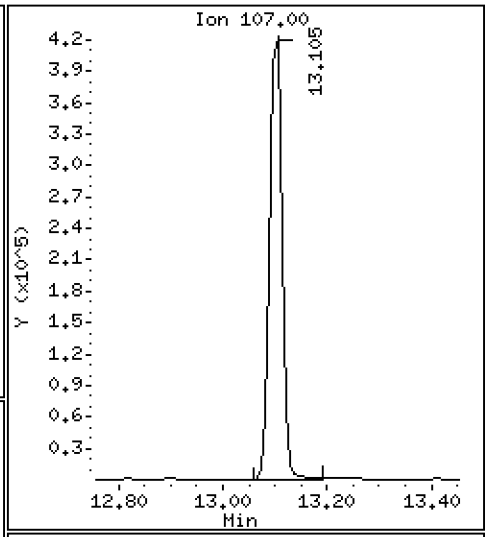
Concentration: 11.93 ug/mL

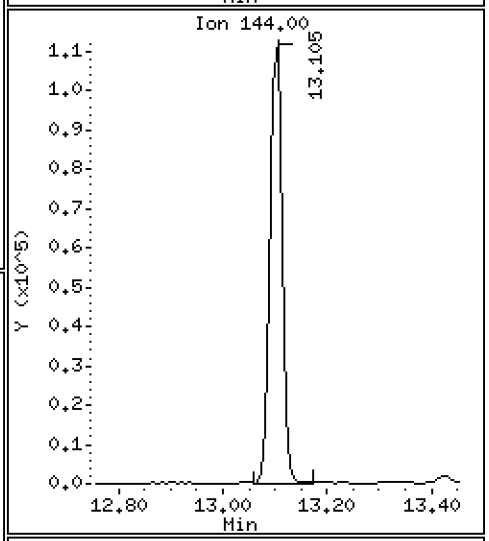


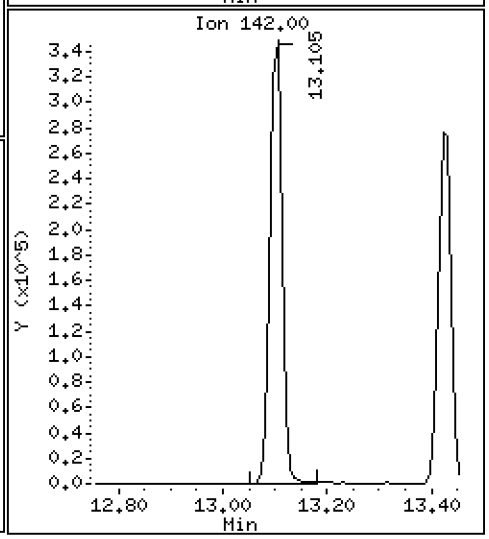












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

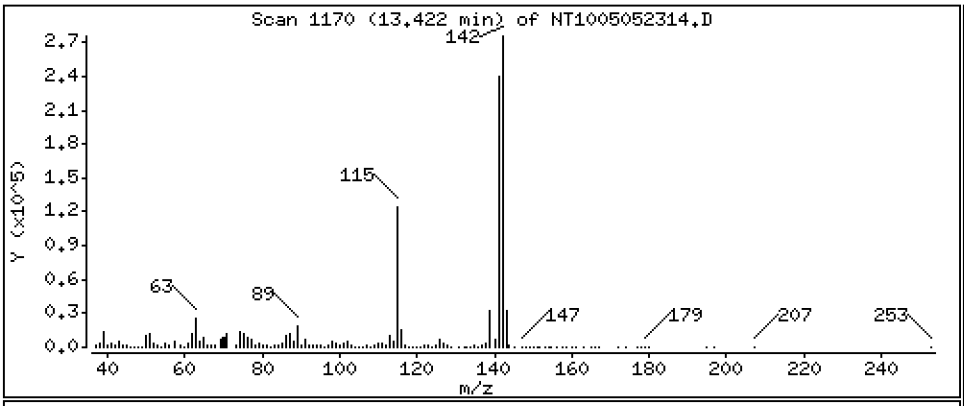
Operator: VTS

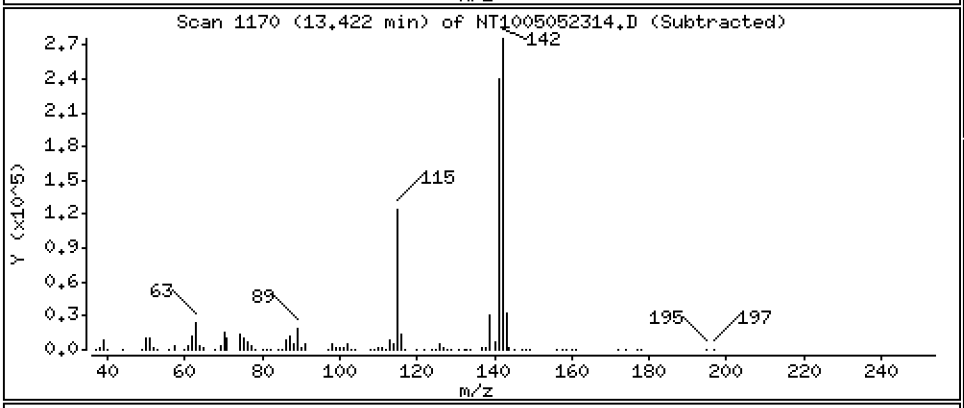
Column phase: ZB-5msi

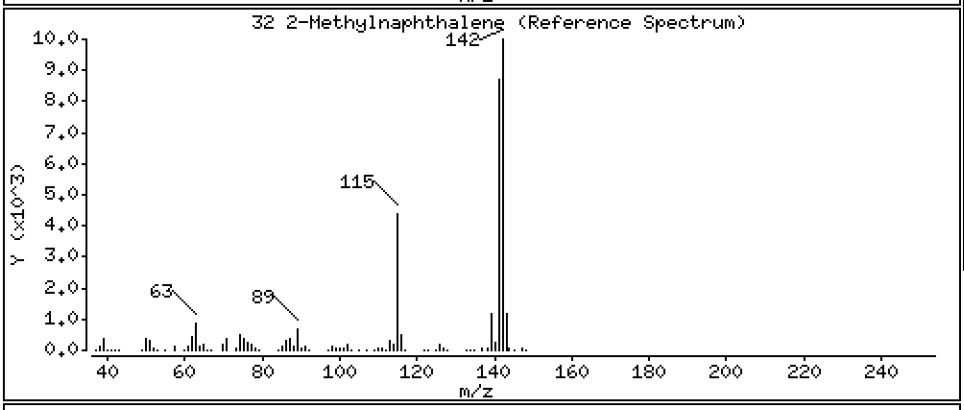
Column diameter: 0.25

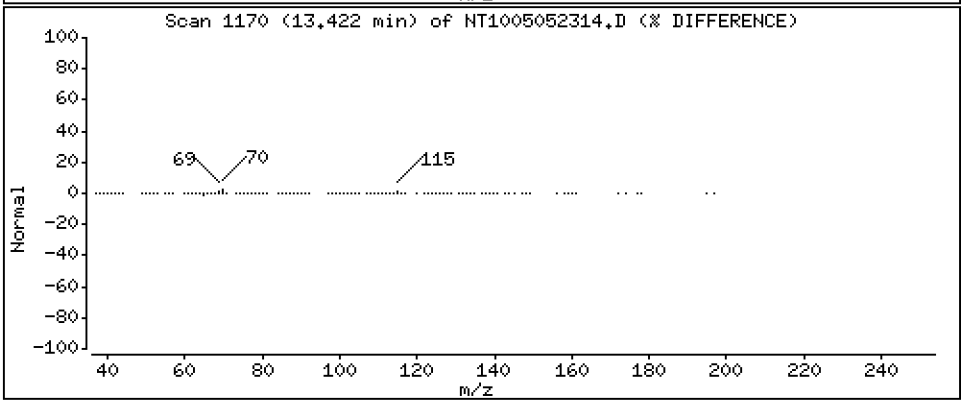
32 2-Methylnaphthalene

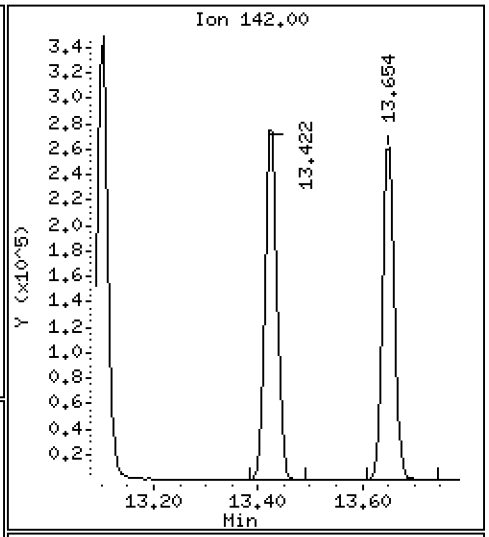
Concentration: 3.508 ug/mL

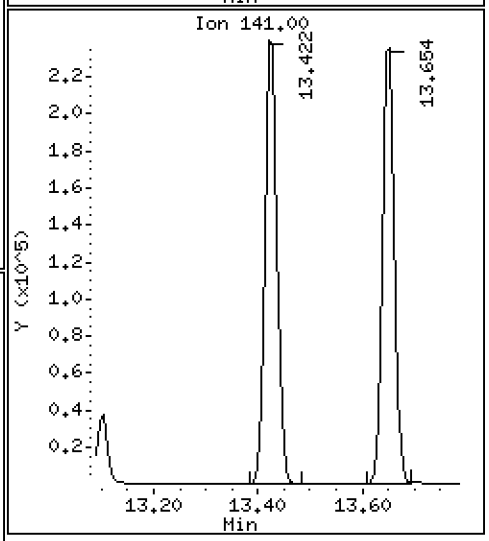












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

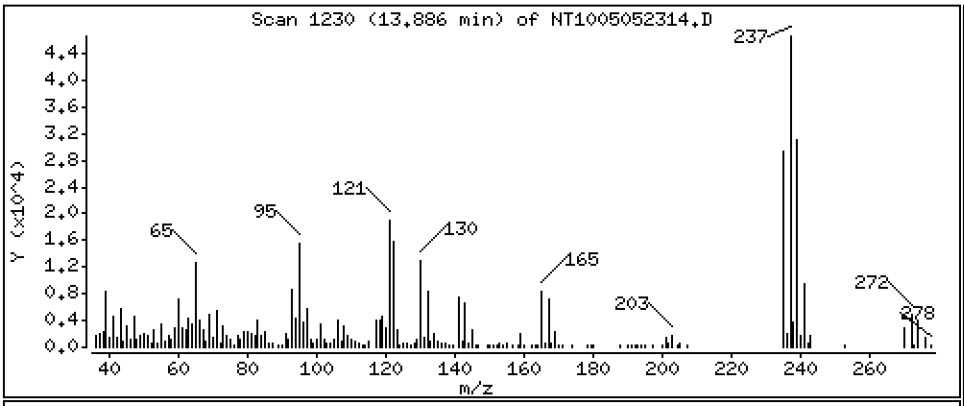
Operator: VTS

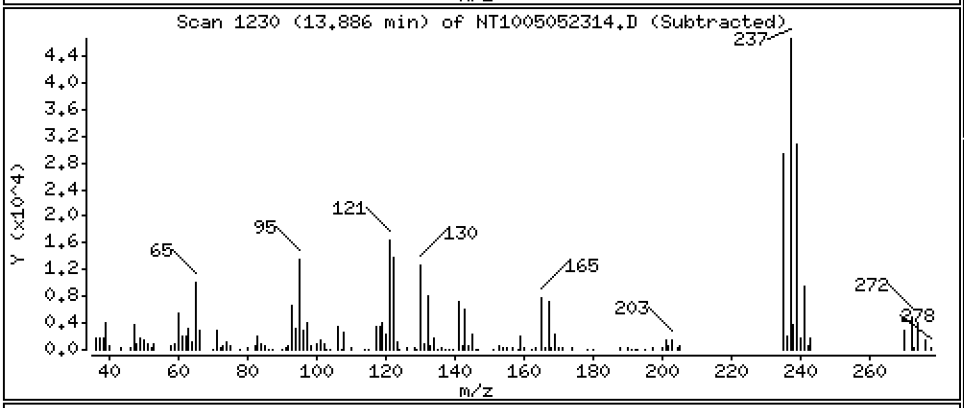
Column phase: ZB-5msi

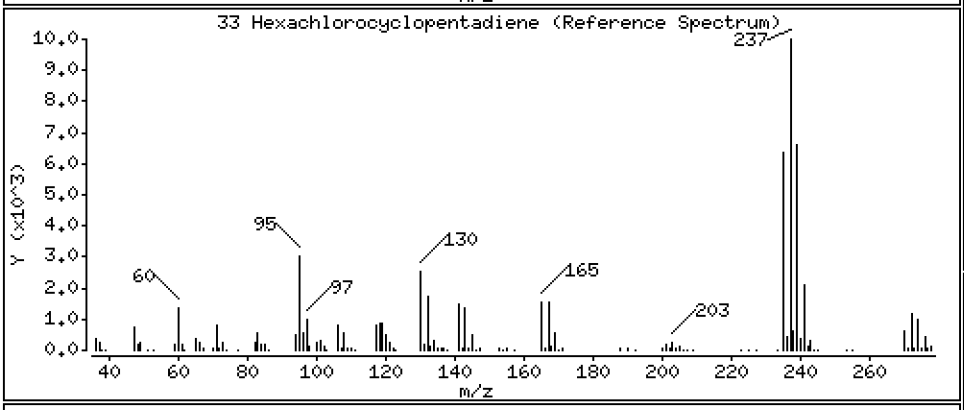
Column diameter: 0.25

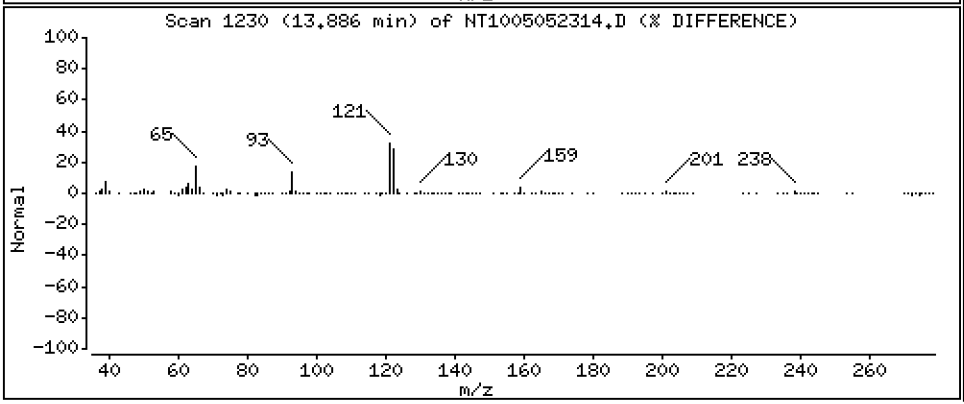
33 Hexachlorocyclopentadiene

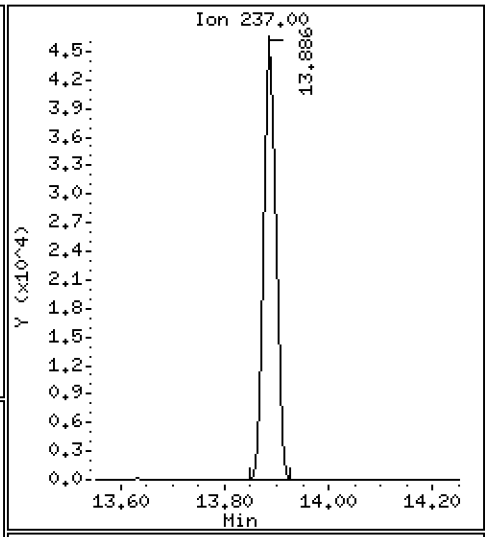
Concentration: 1.744 ug/mL

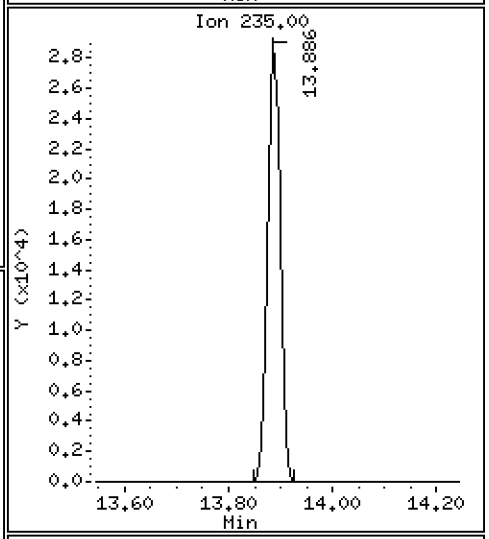


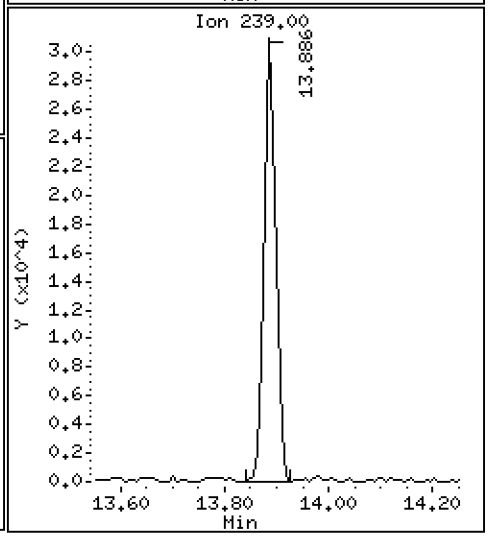












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

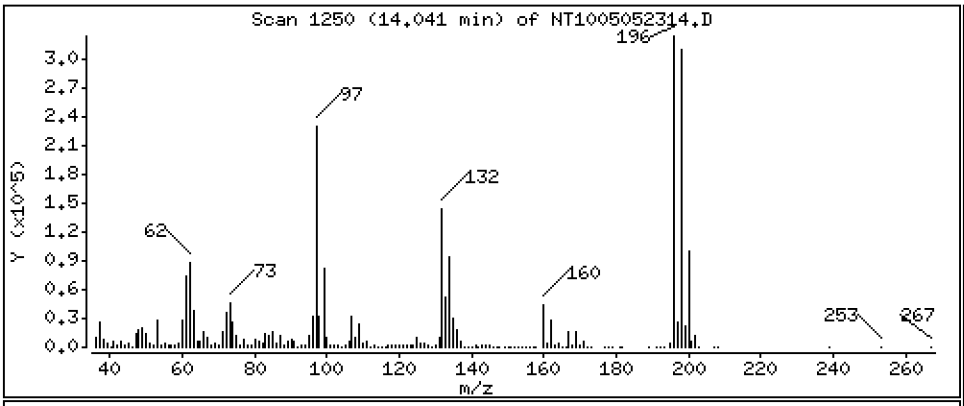
Operator: VTS

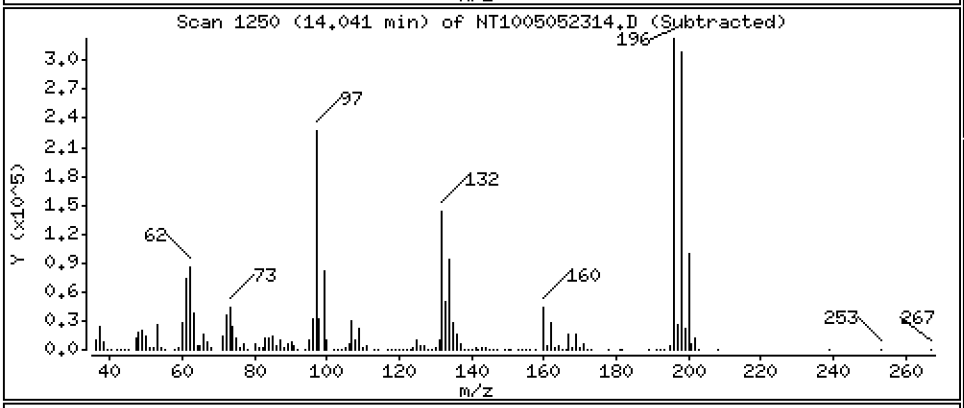
Column phase: ZB-5msi

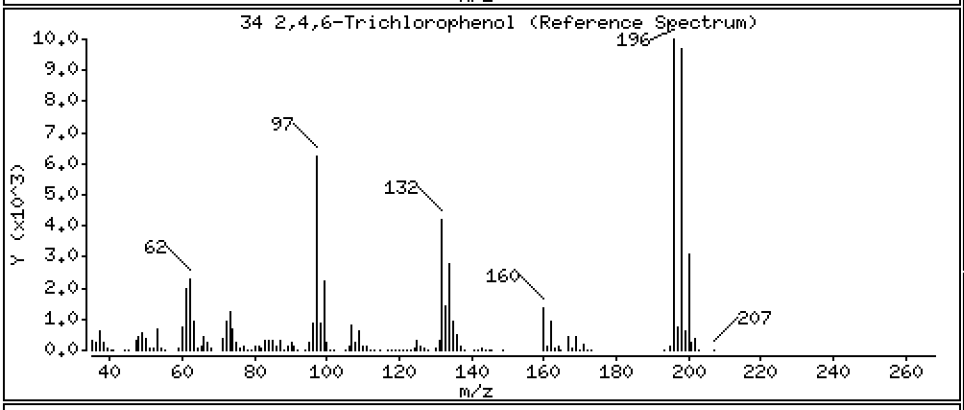
Column diameter: 0.25

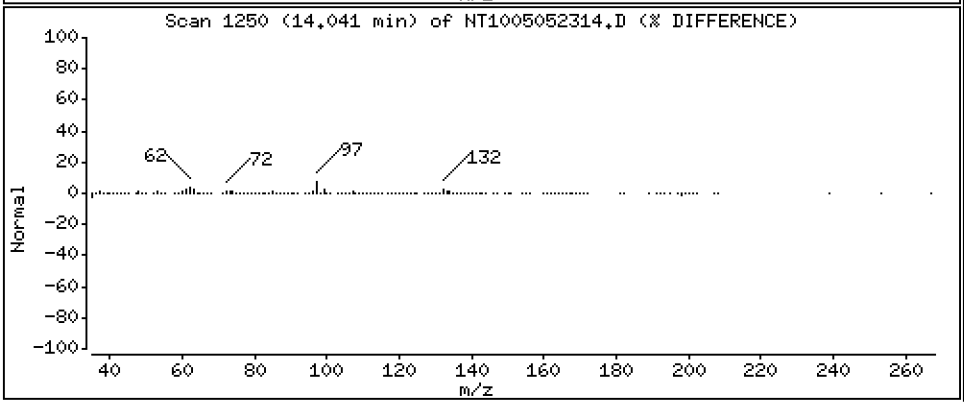
34 2,4,6-Trichlorophenol

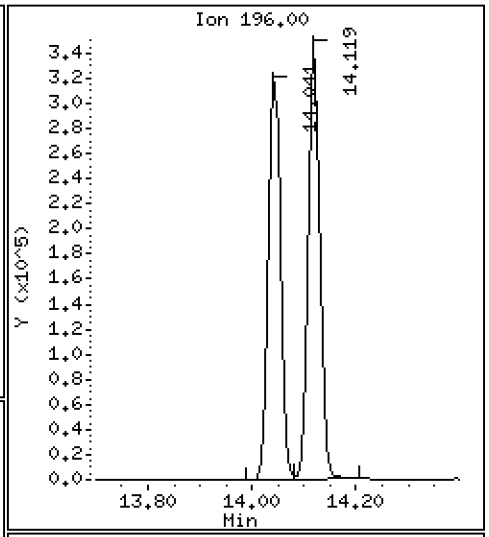
Concentration: 11.87 ug/mL

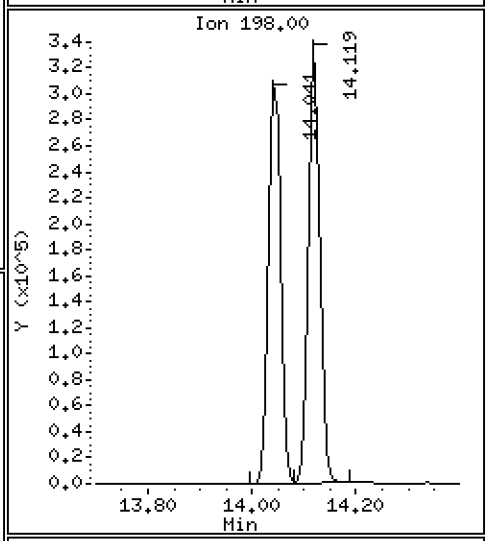


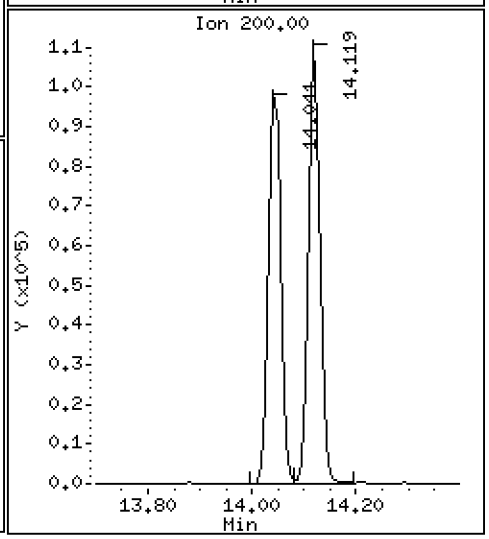












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

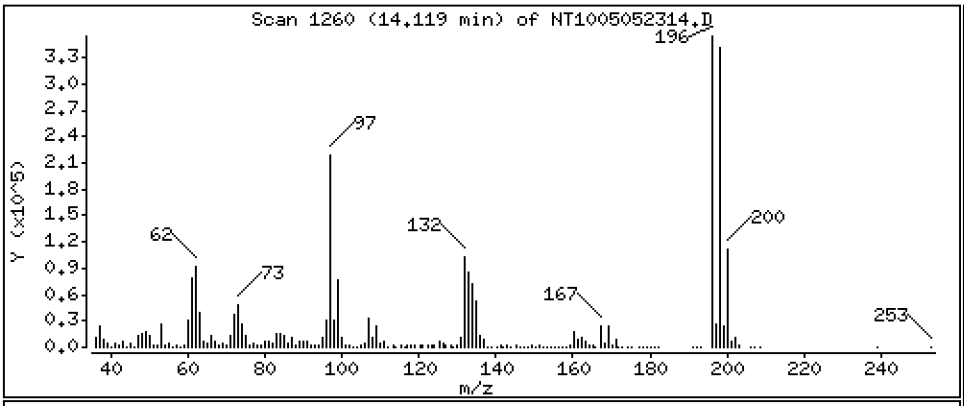
Operator: VTS

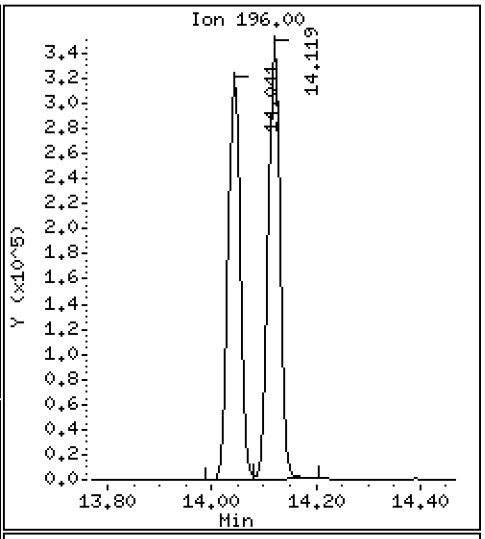
Column phase: ZB-5msi

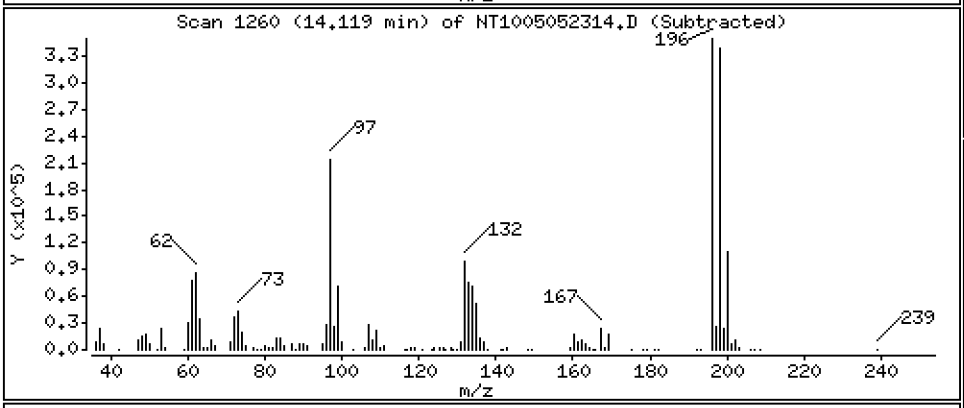
Column diameter: 0.25

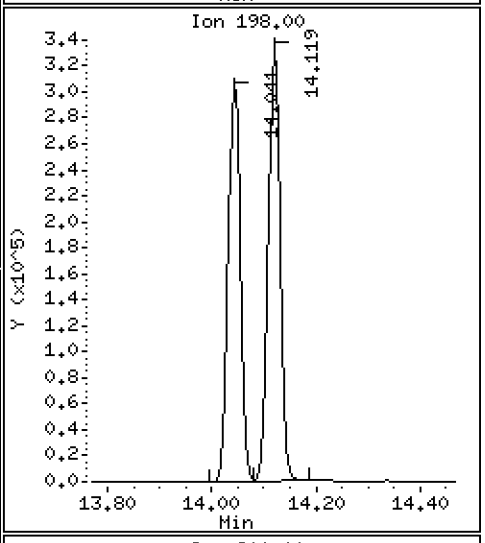
35 2,4,5-Trichlorophenol

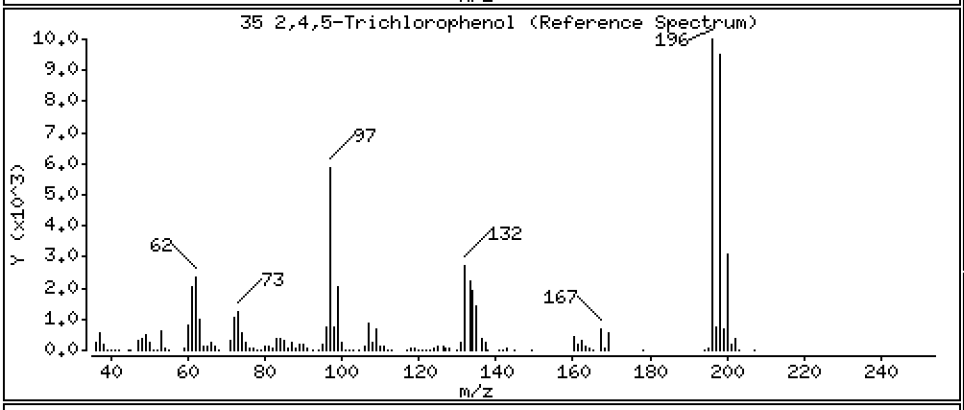
Concentration: 11.57 ug/mL

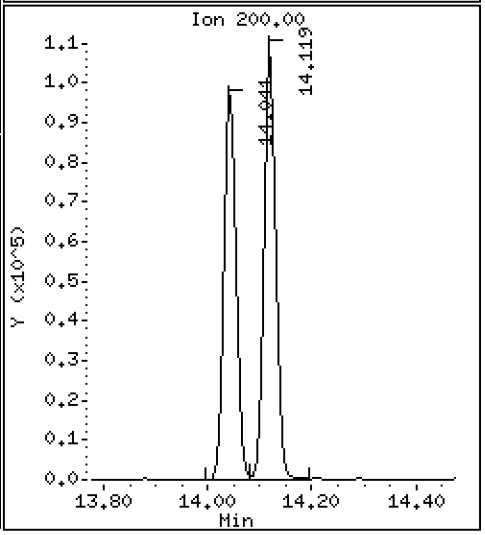


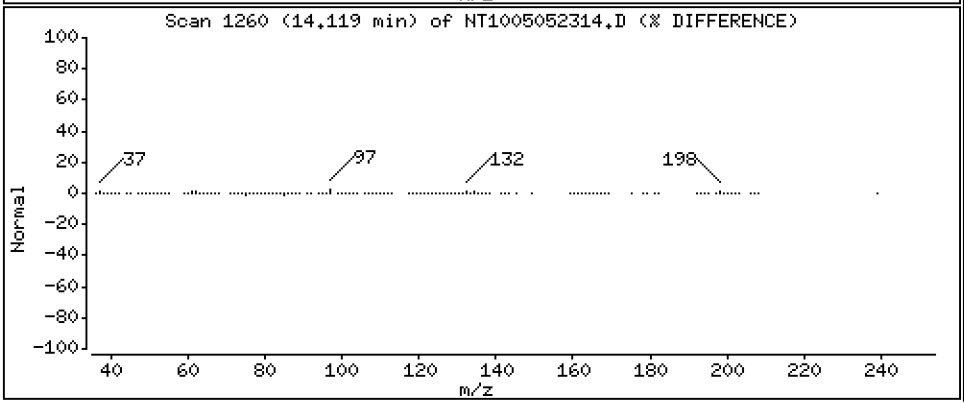












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

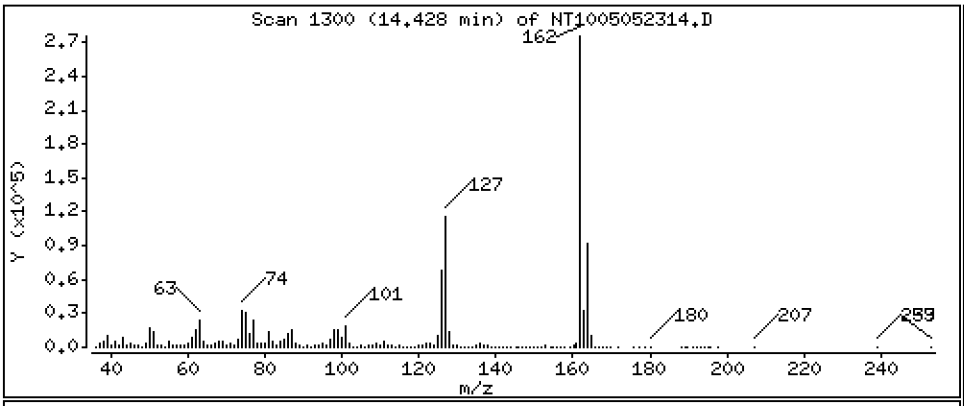
Operator: VTS

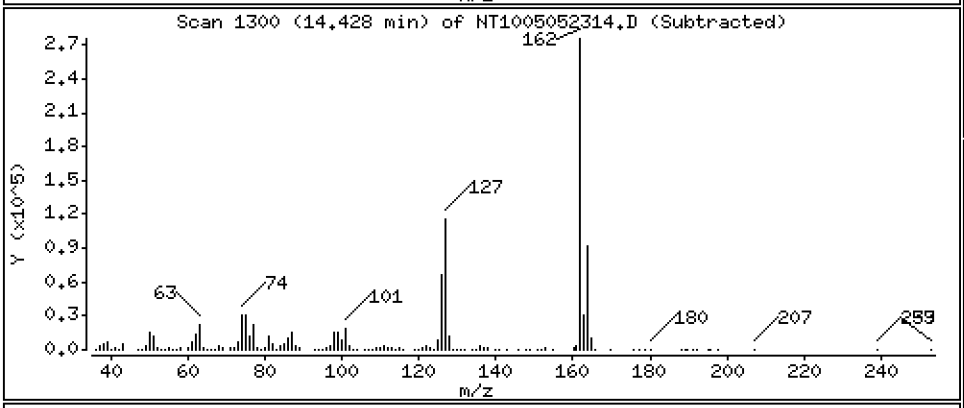
Column phase: ZB-5msi

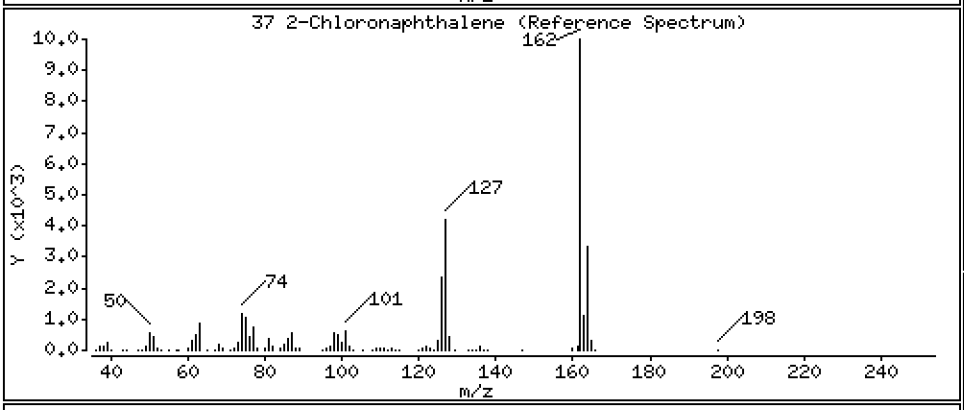
Column diameter: 0.25

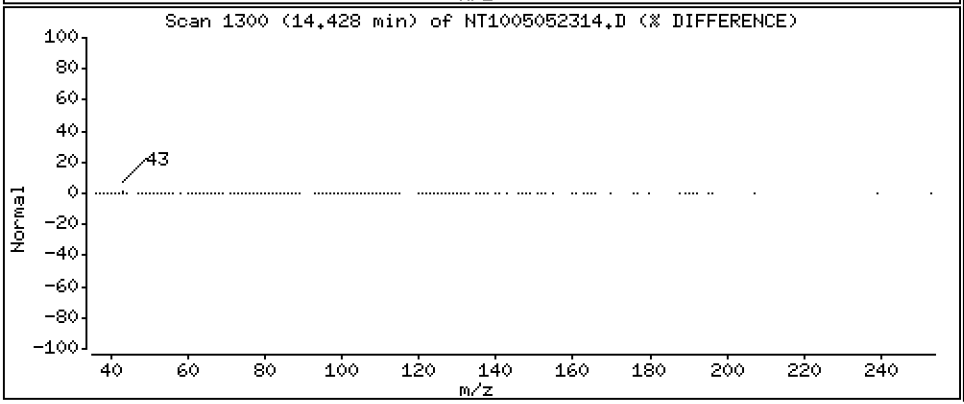
37 2-Chloronaphthalene

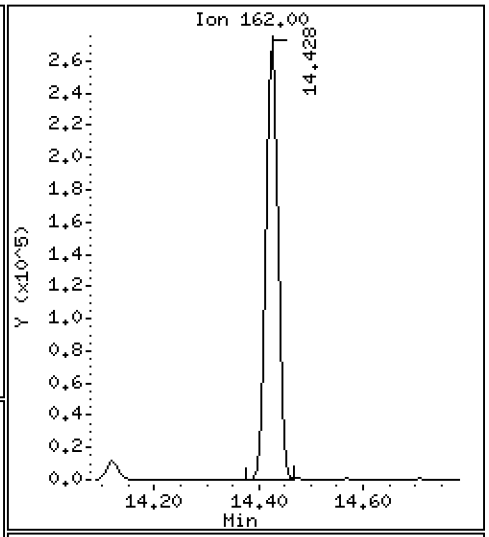
Concentration: 3.608 ug/mL

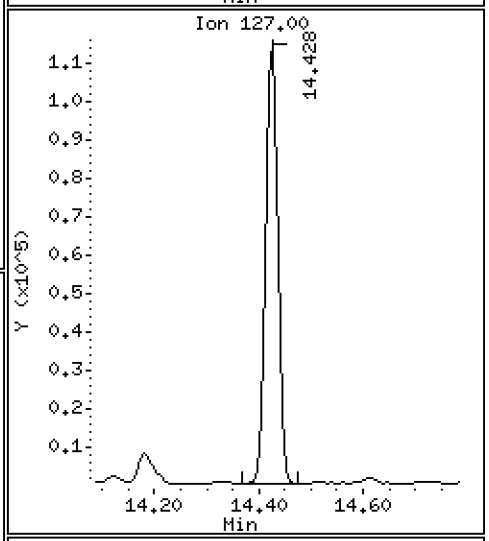


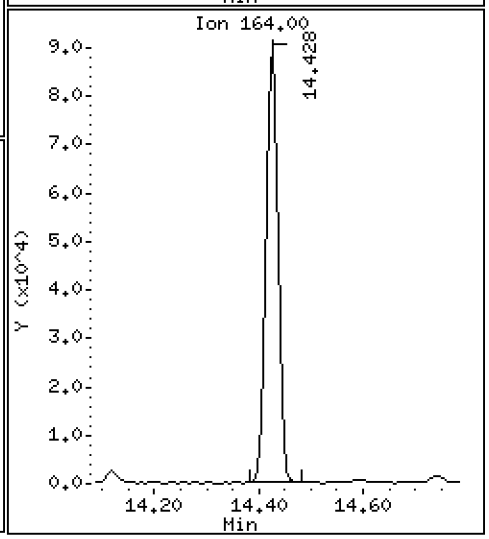












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

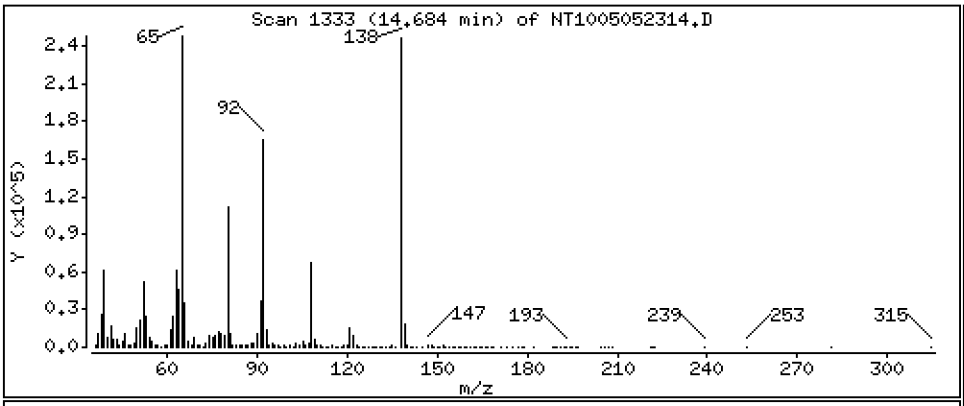
Operator: VTS

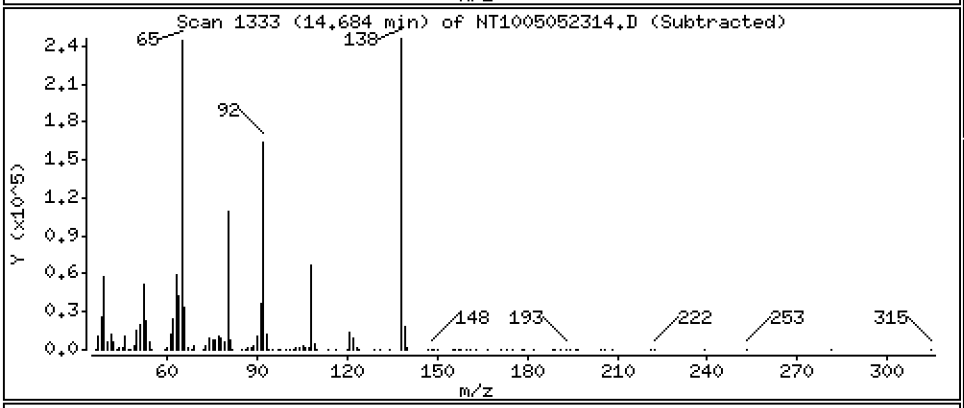
Column phase: ZB-5msi

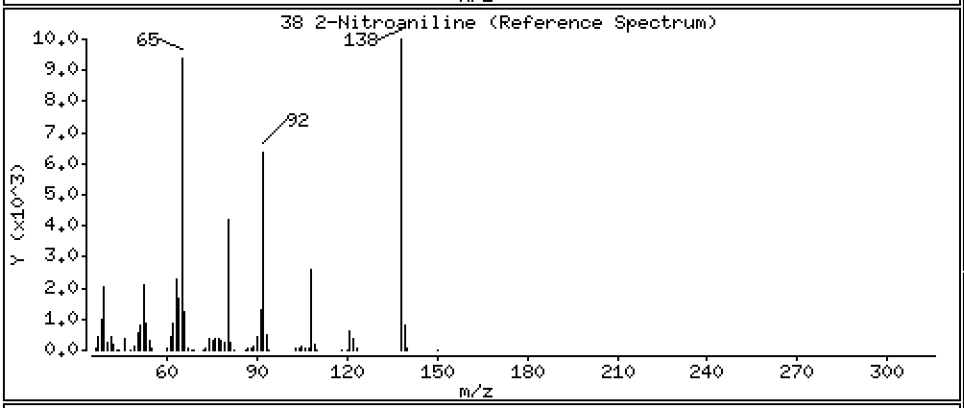
Column diameter: 0.25

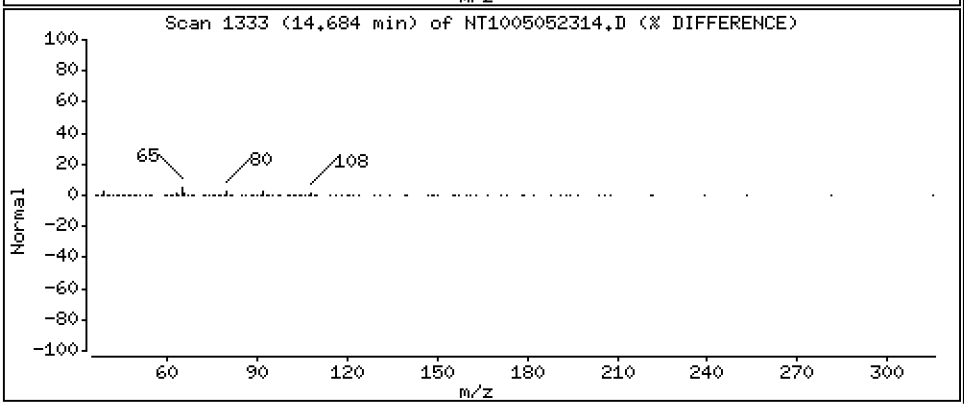
38 2-Nitroaniline

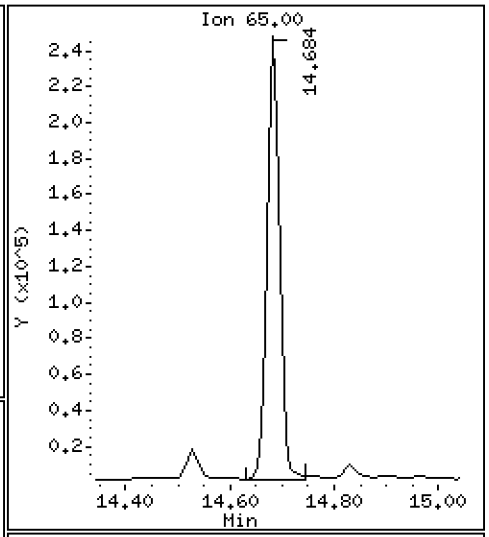
Concentration: 11.92 ug/mL

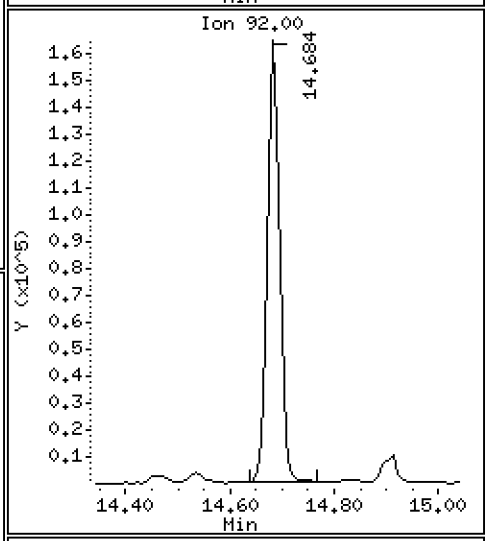


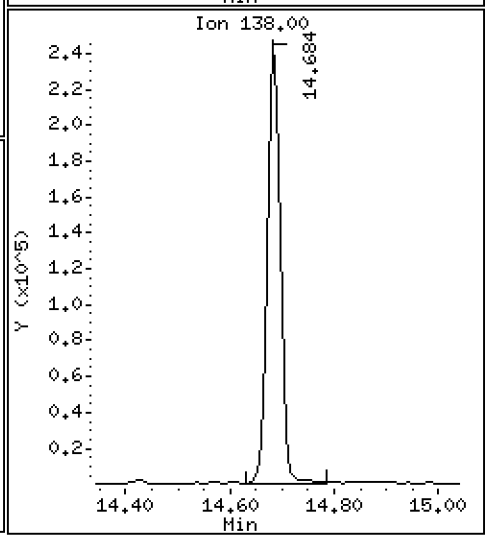












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

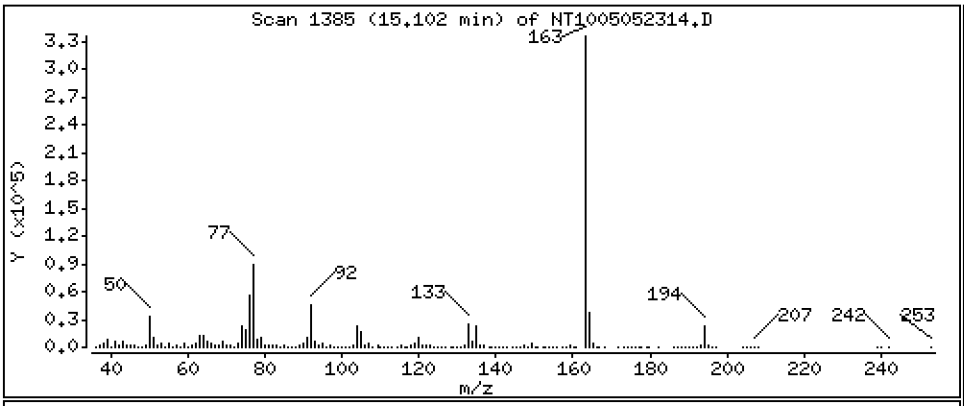
Operator: VTS

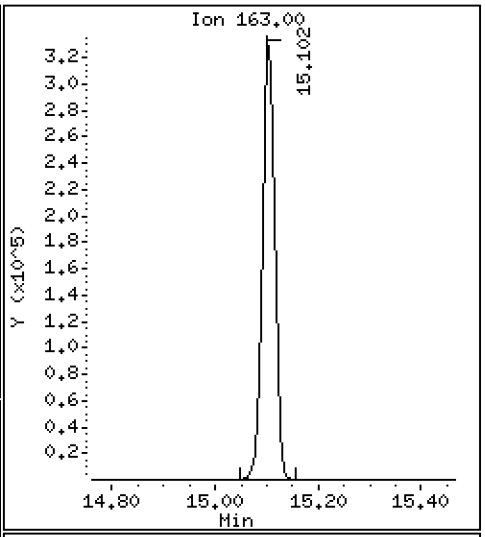
Column phase: ZB-5msi

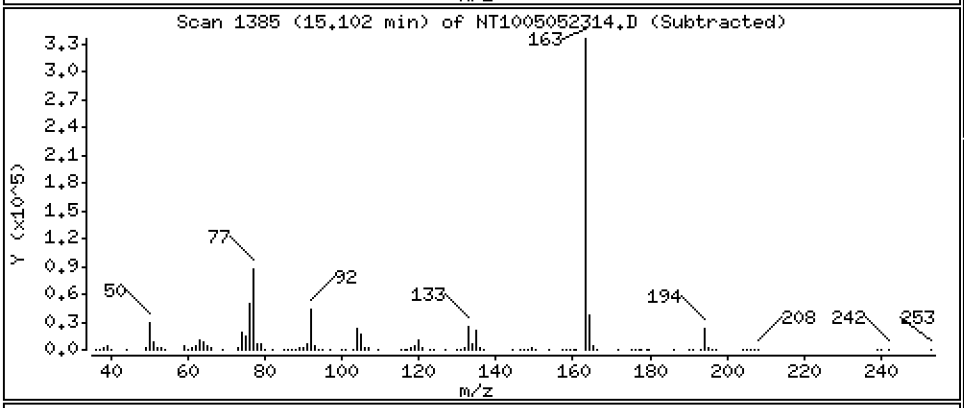
Column diameter: 0.25

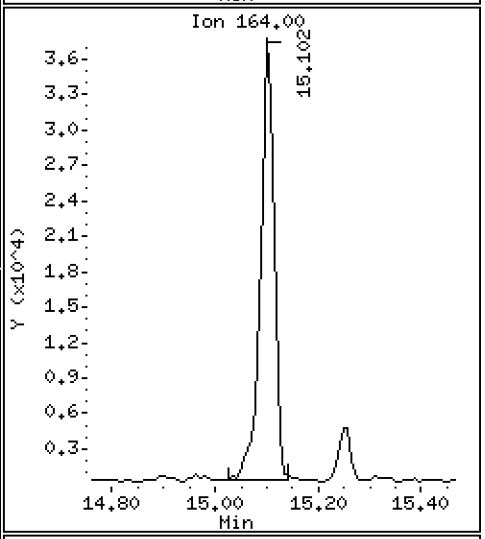
39 Dimethylphthalate

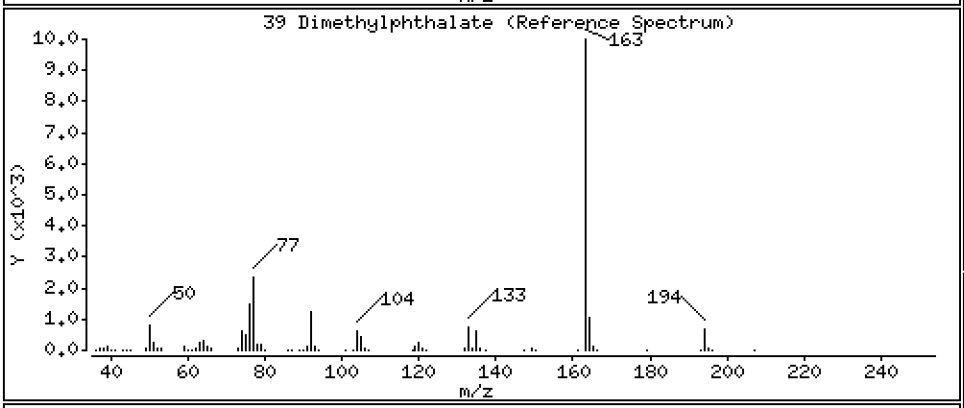
Concentration: 4.043 ug/mL

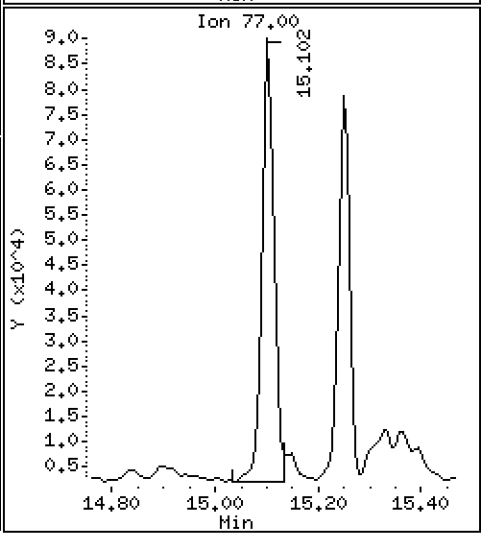


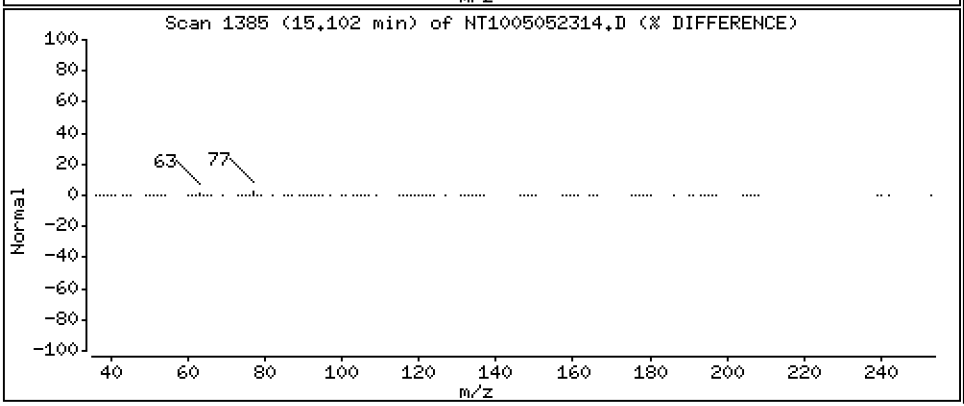












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

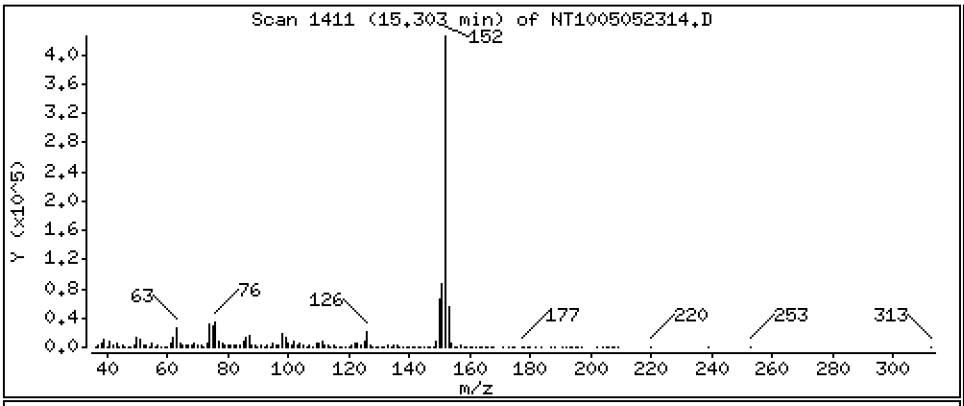
Operator: VTS

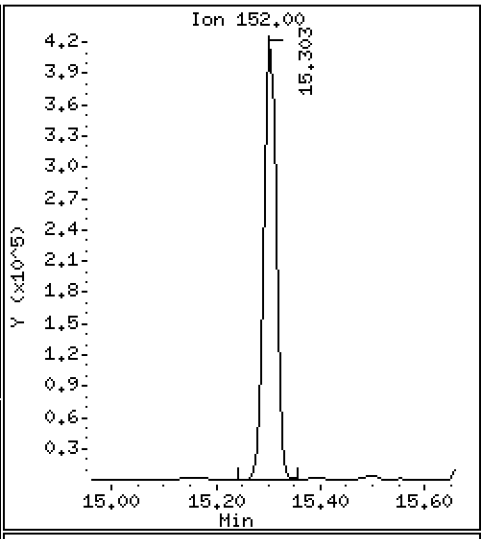
Column phase: ZB-5msi

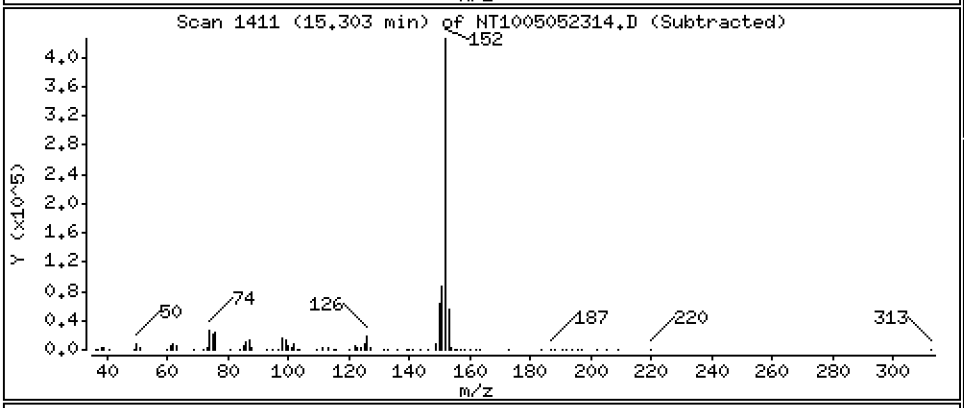
Column diameter: 0.25

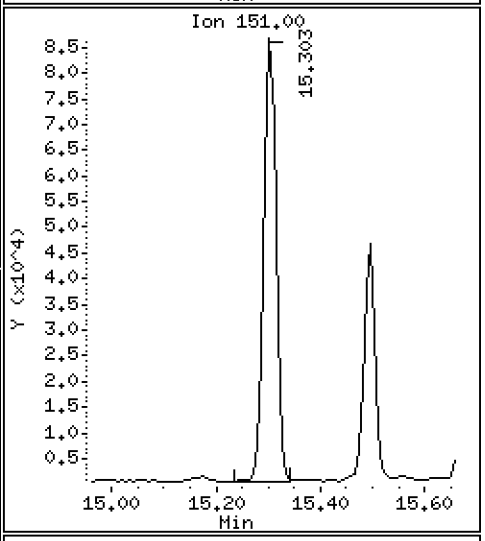
40 Acenaphthylene

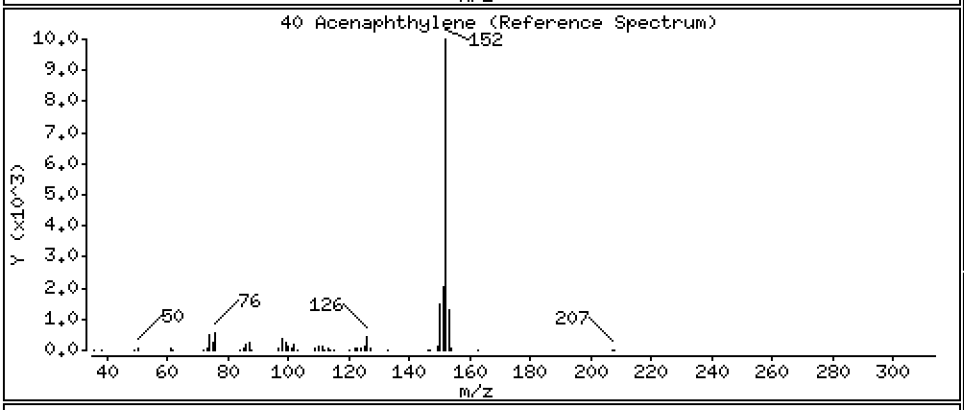
Concentration: 3.635 ug/mL

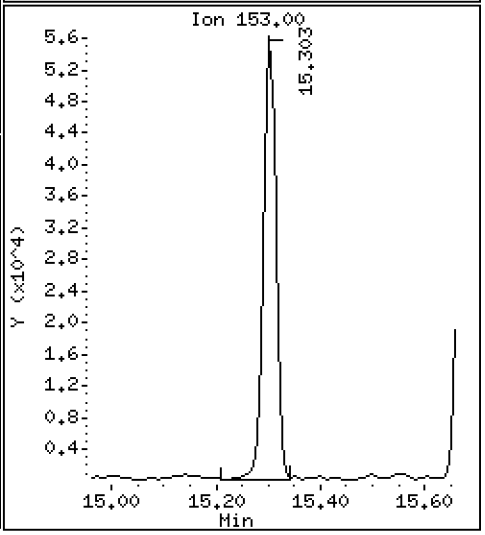


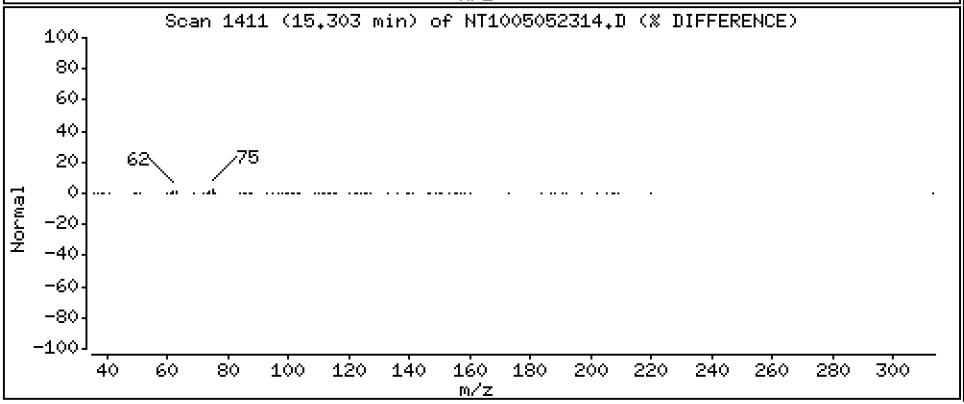












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

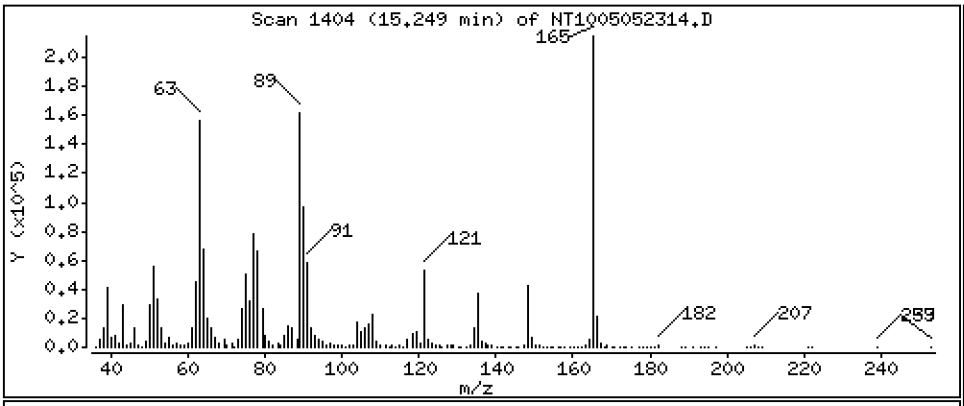
Operator: VTS

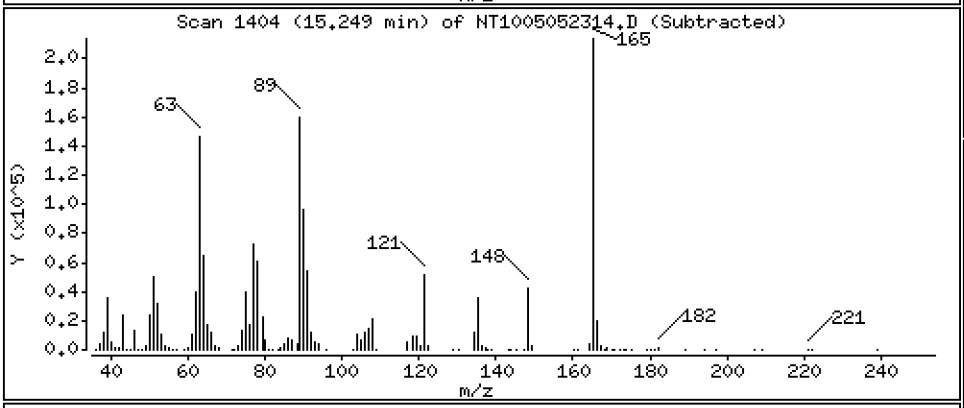
Column phase: ZB-5msi

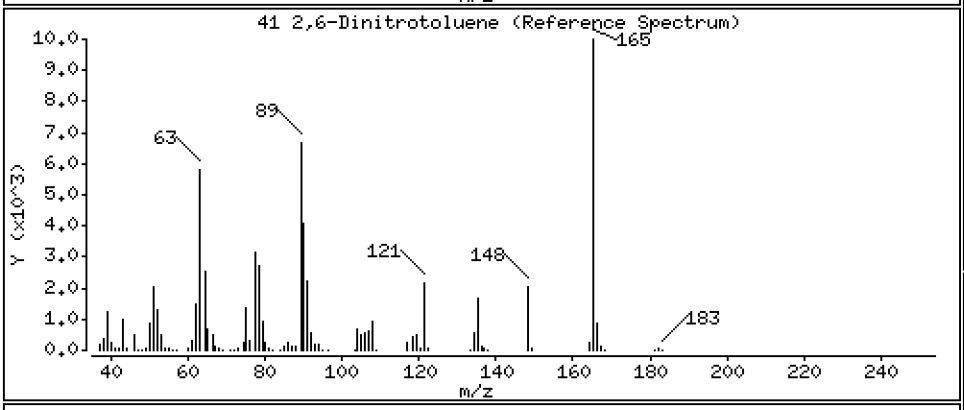
Column diameter: 0.25

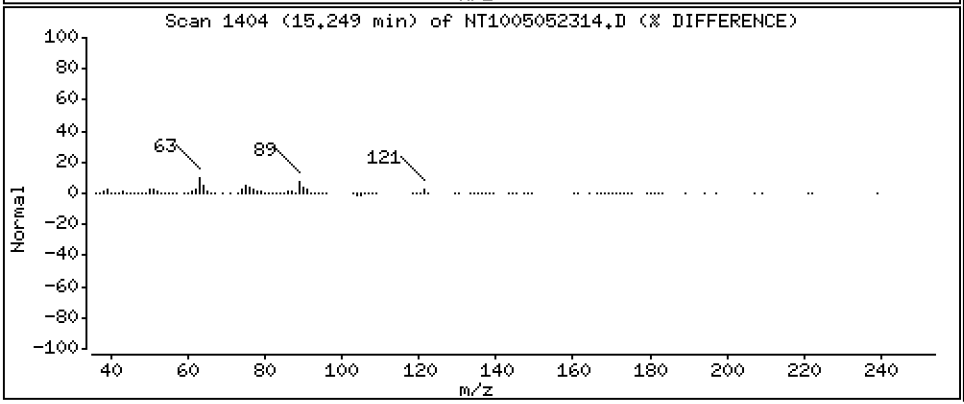
41 2,6-Dinitrotoluene

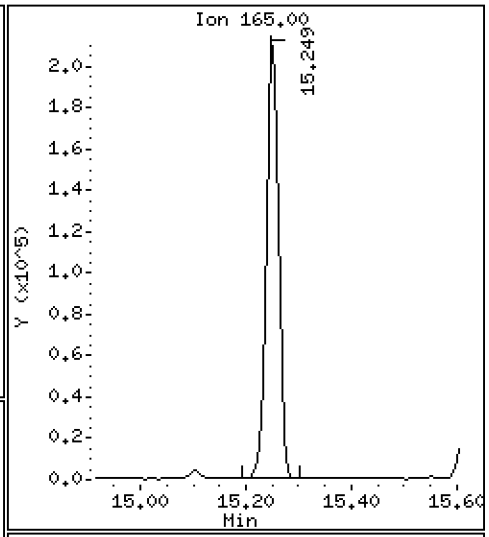
Concentration: 11.24 ug/mL

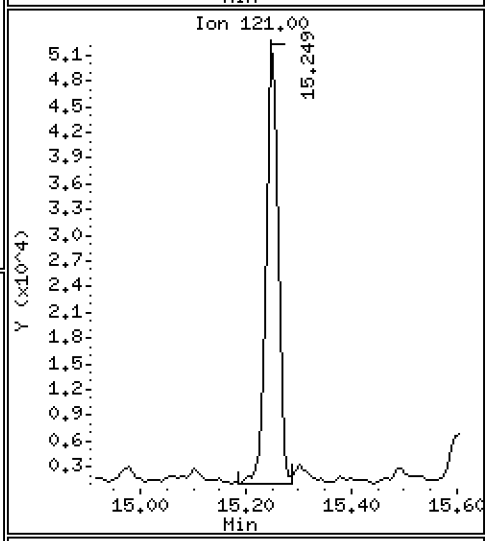


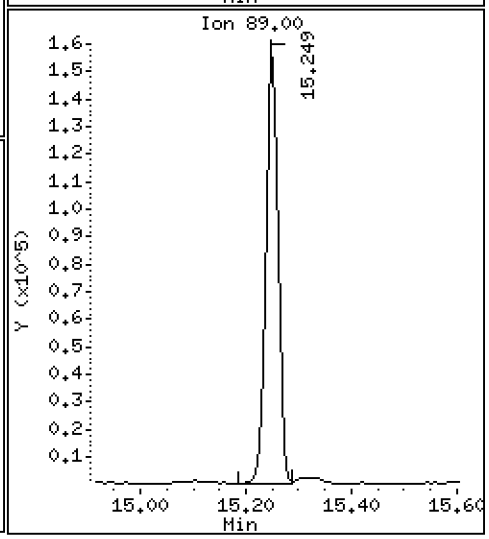












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

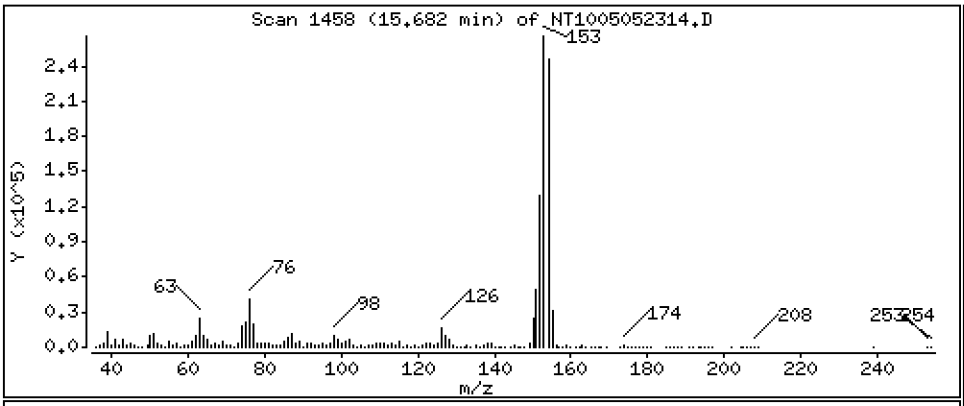
Operator: VTS

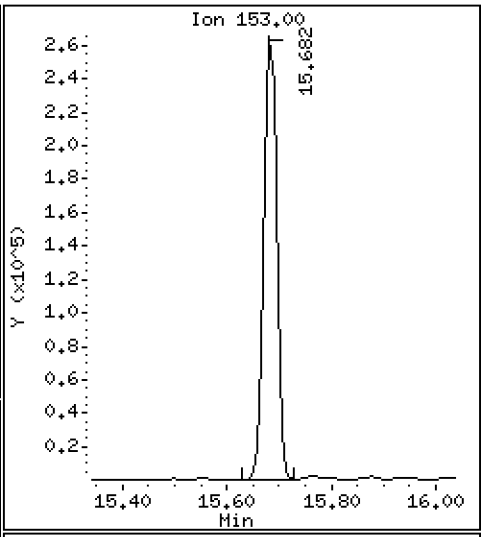
Column phase: ZB-5msi

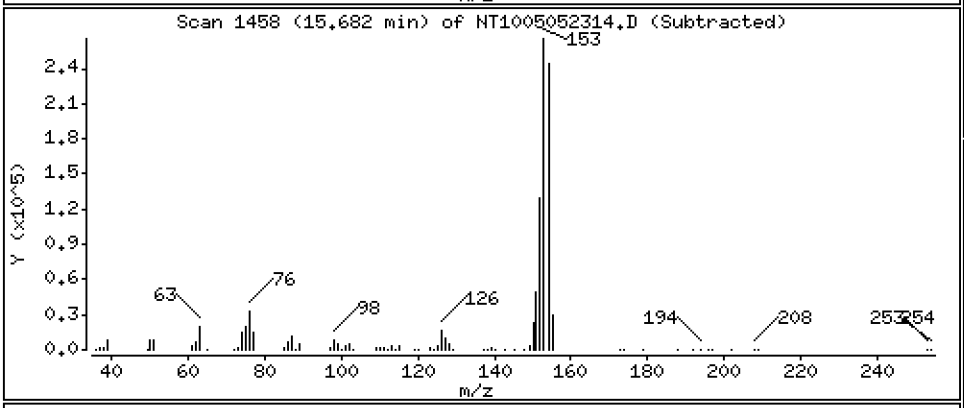
Column diameter: 0.25

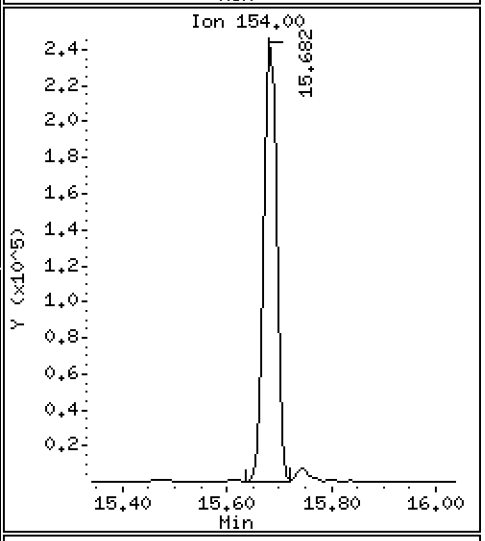
44 Acenaphthene

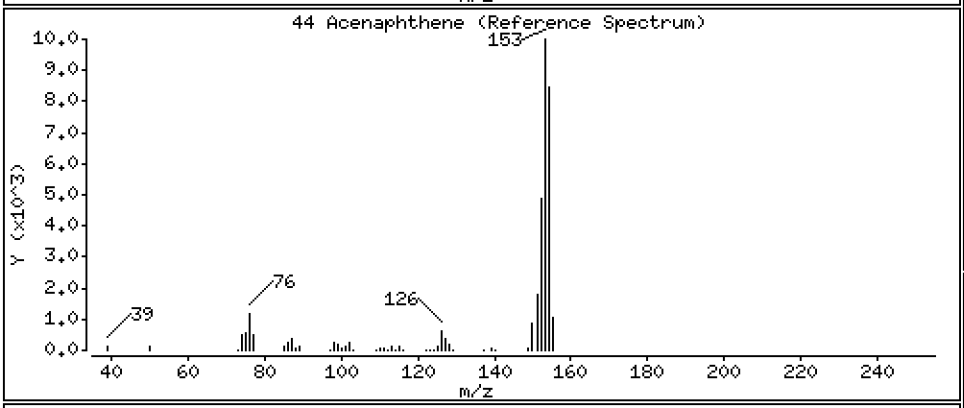
Concentration: 3.751 ug/mL

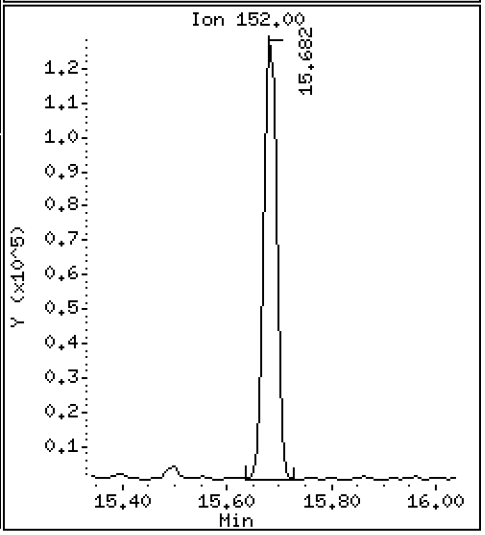


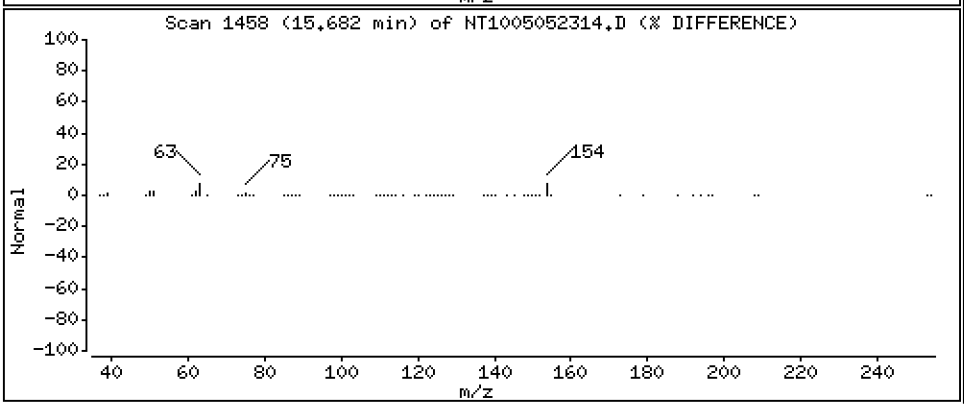












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

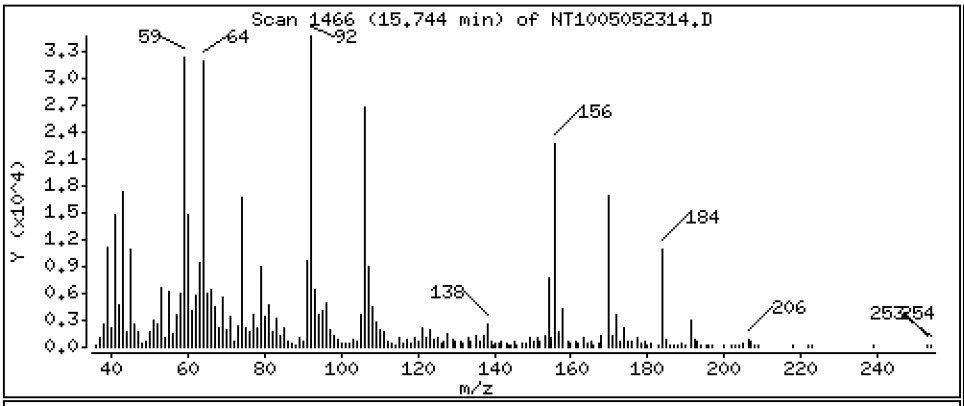
Operator: VTS

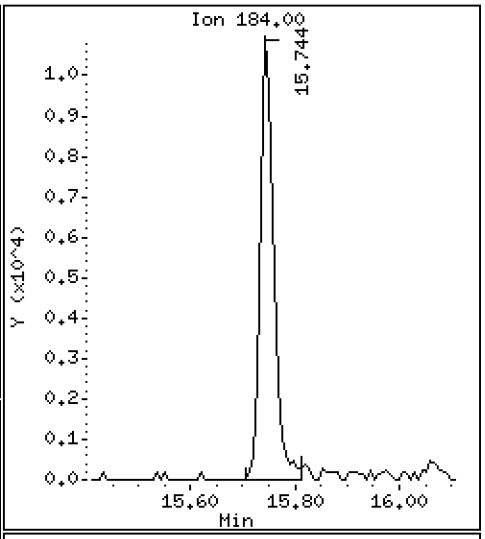
Column phase: ZB-5msi

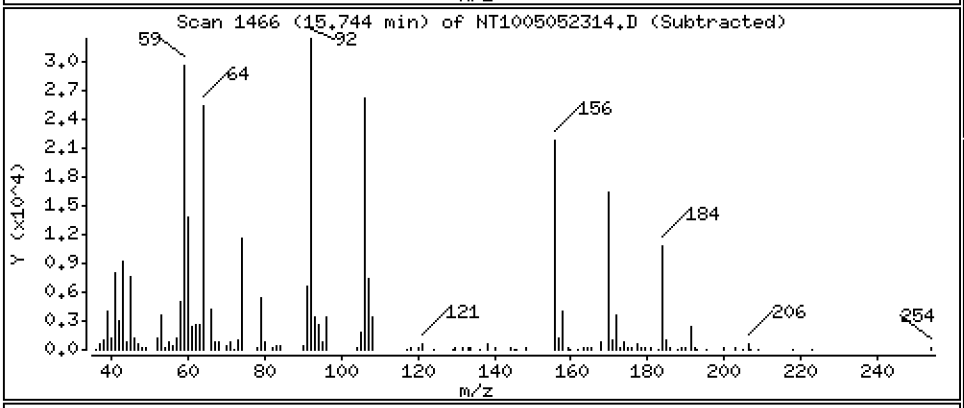
Column diameter: 0.25

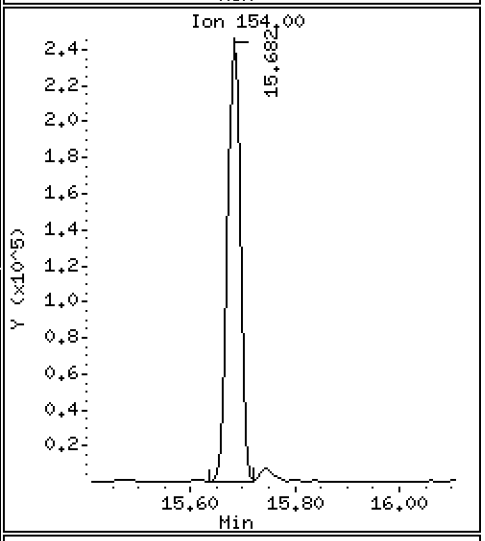
45 2,4-Dinitrophenol

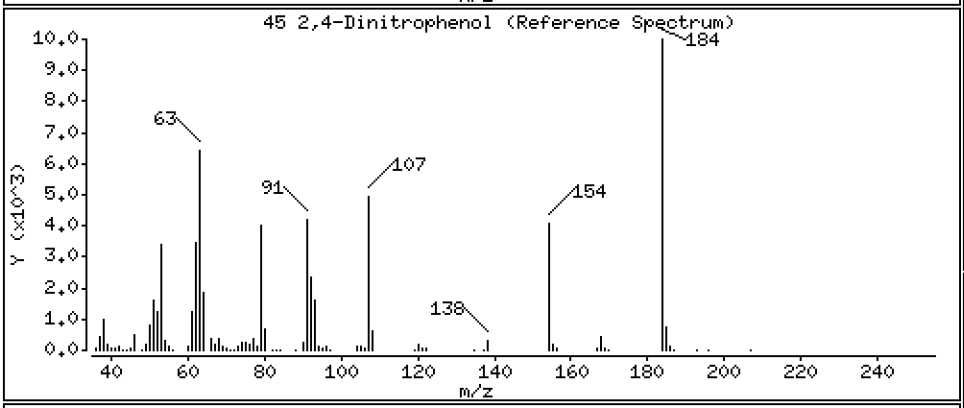
Concentration: 0.8519 ug/mL

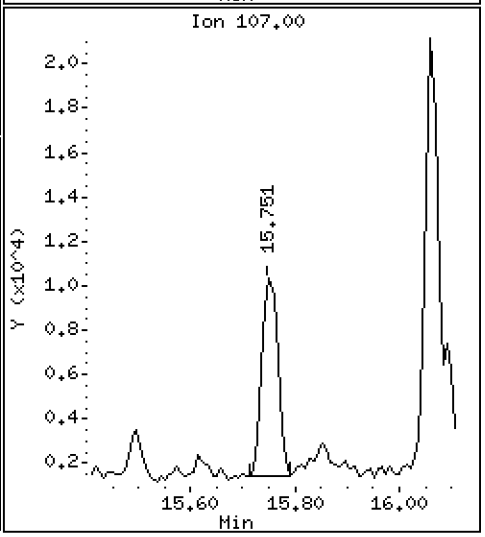


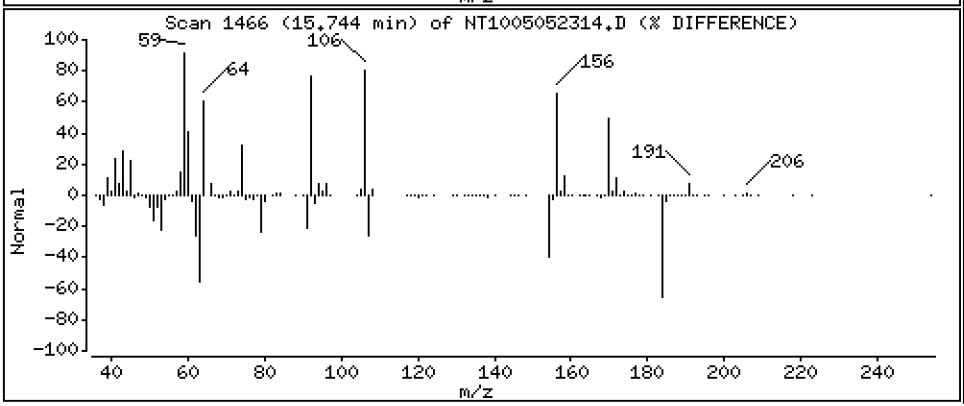












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

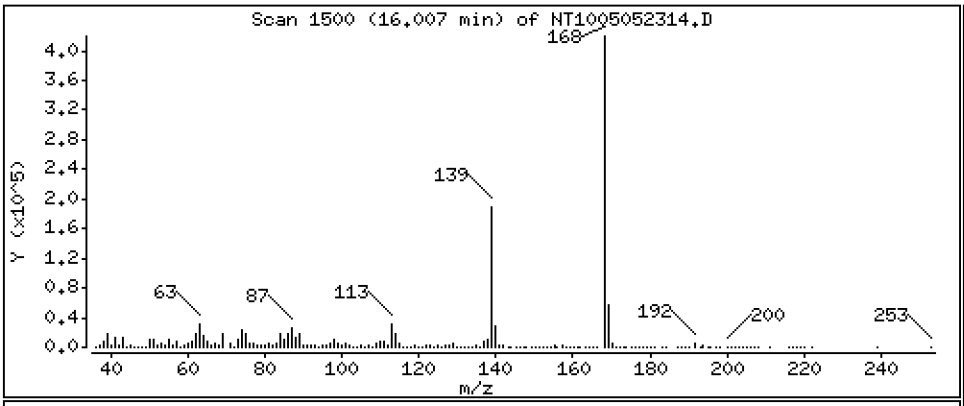
Operator: VTS

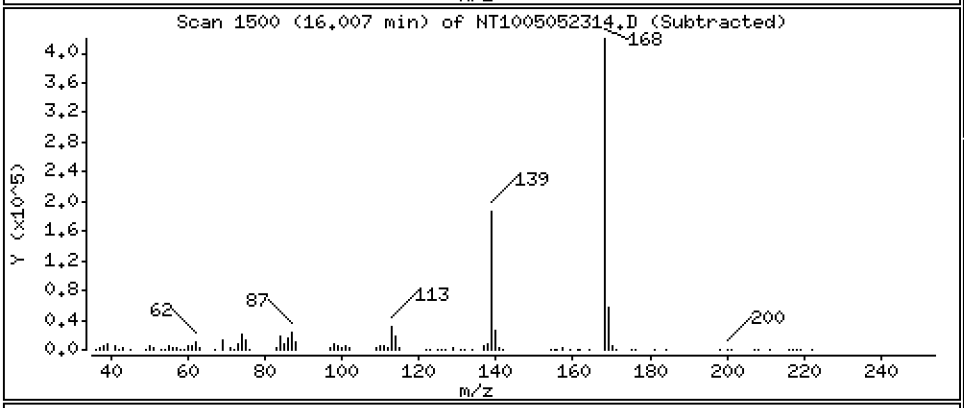
Column phase: ZB-5msi

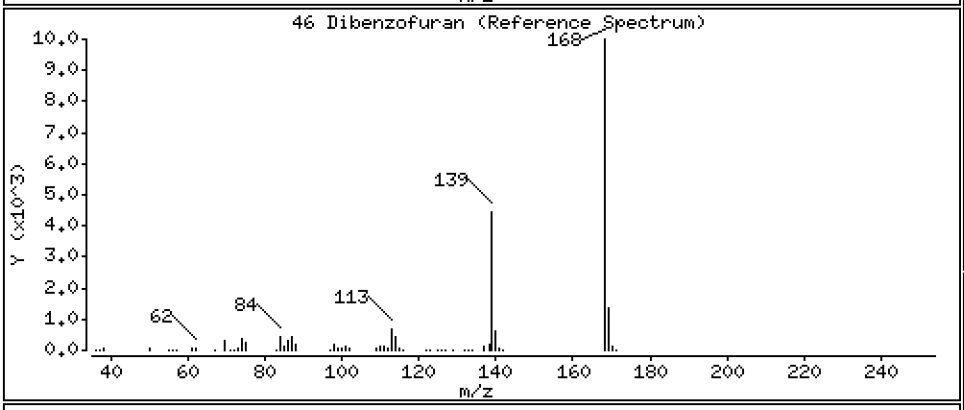
Column diameter: 0.25

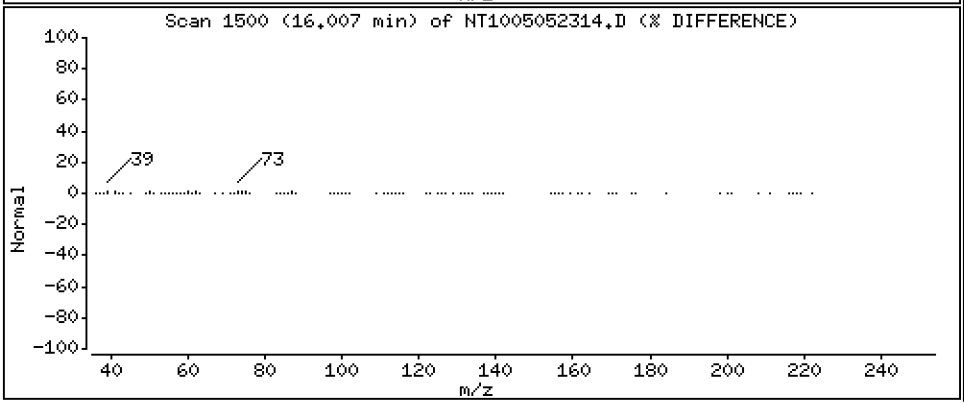
46 Dibenzofuran

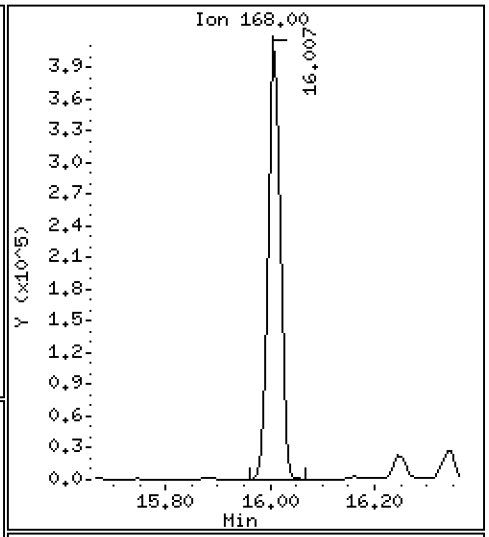
Concentration: 3.853 ug/mL

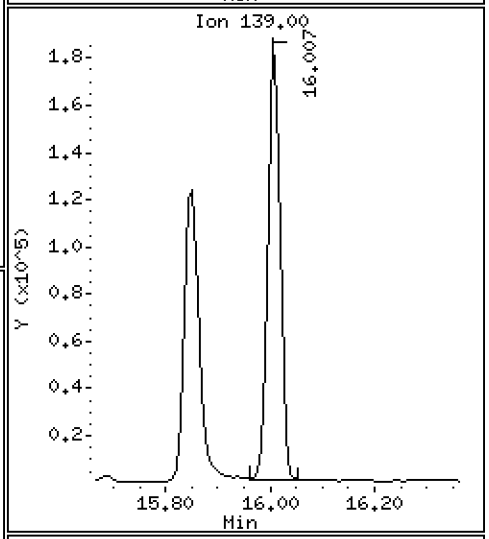


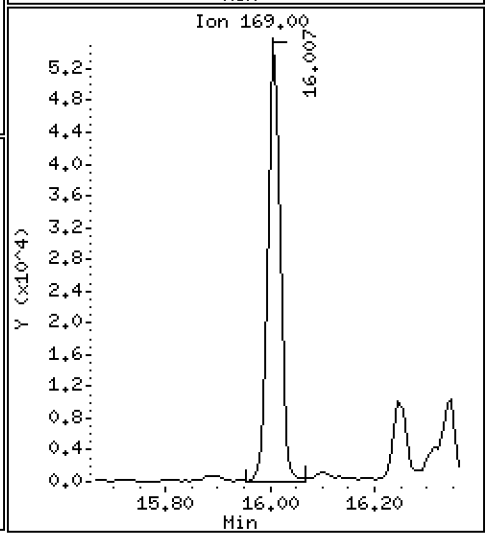












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

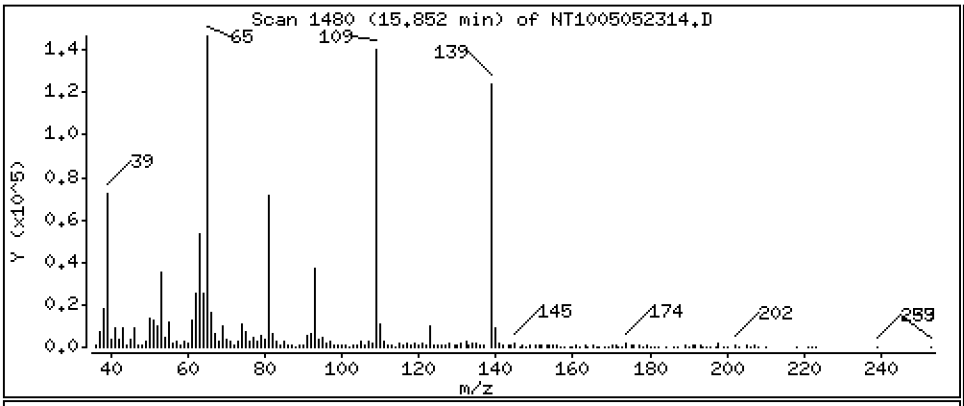
Operator: VTS

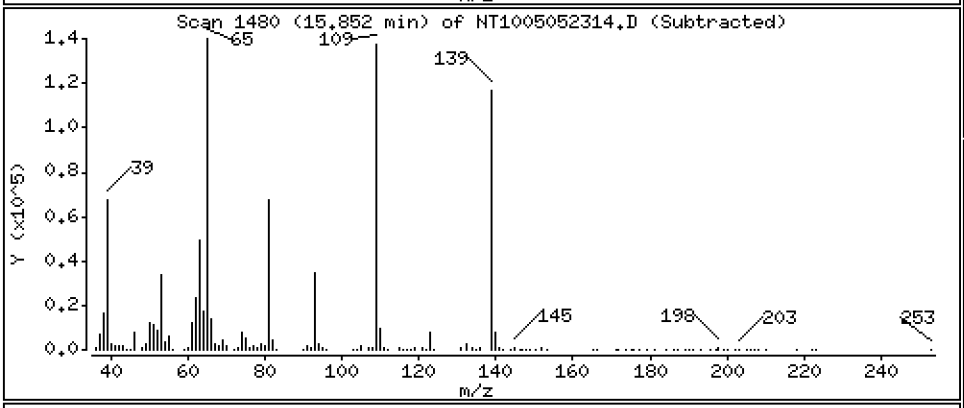
Column phase: ZB-5msi

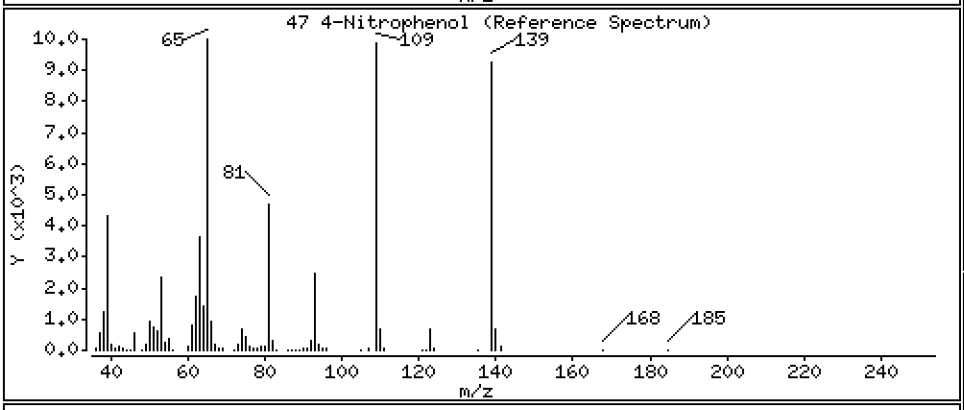
Column diameter: 0.25

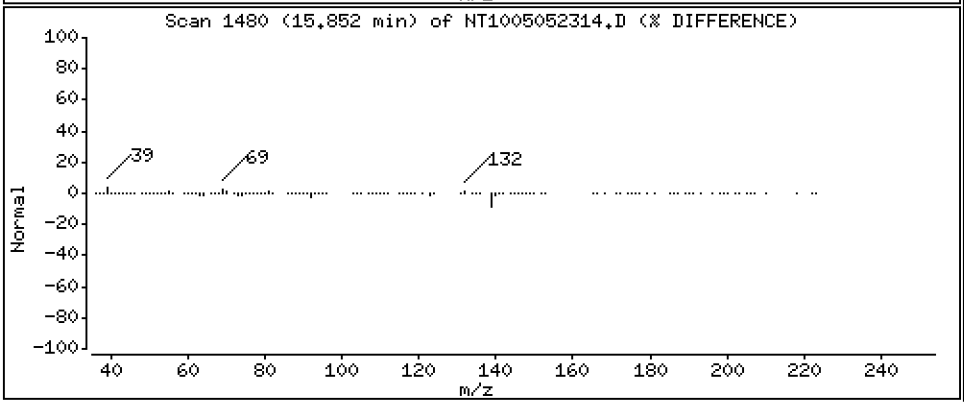
47 4-Nitrophenol

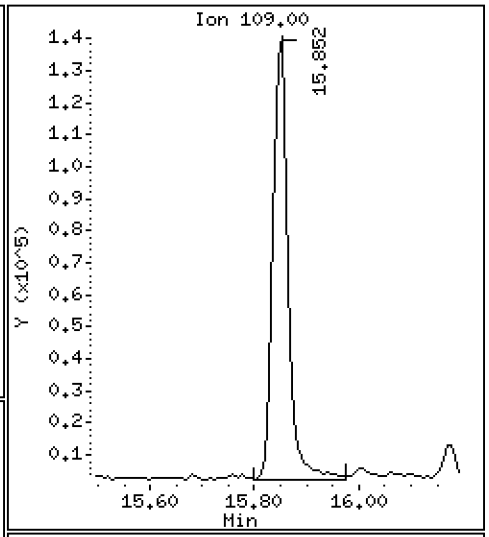
Concentration: 9.908 ug/mL

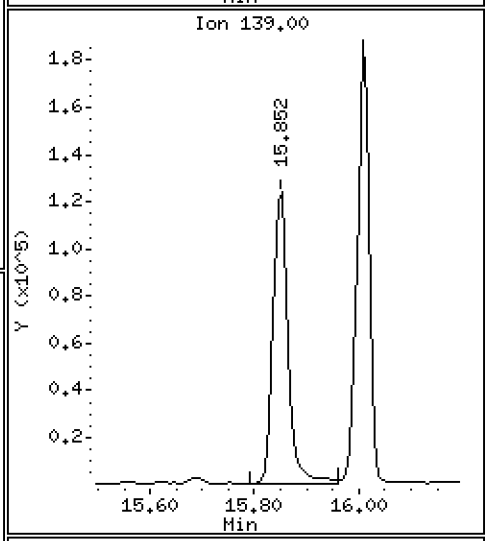


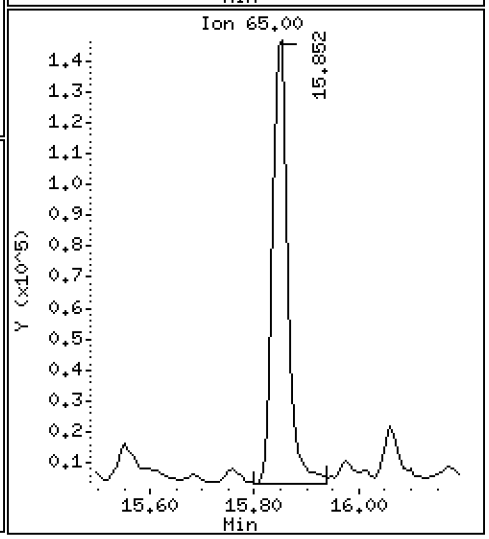












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

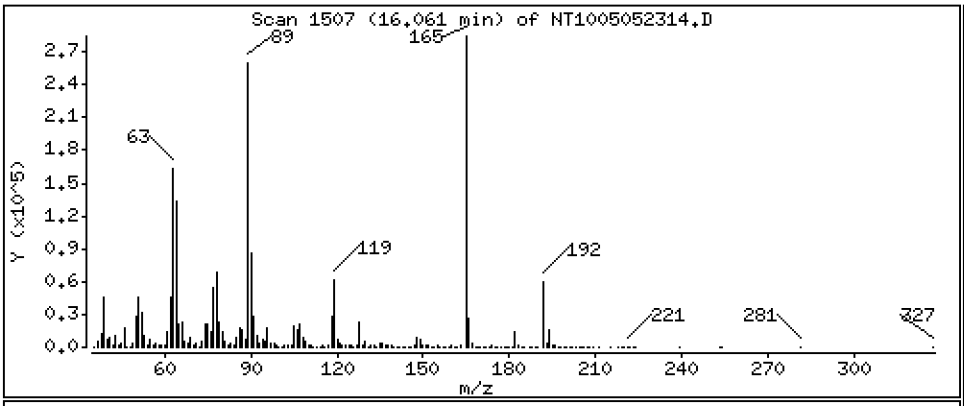
Operator: VTS

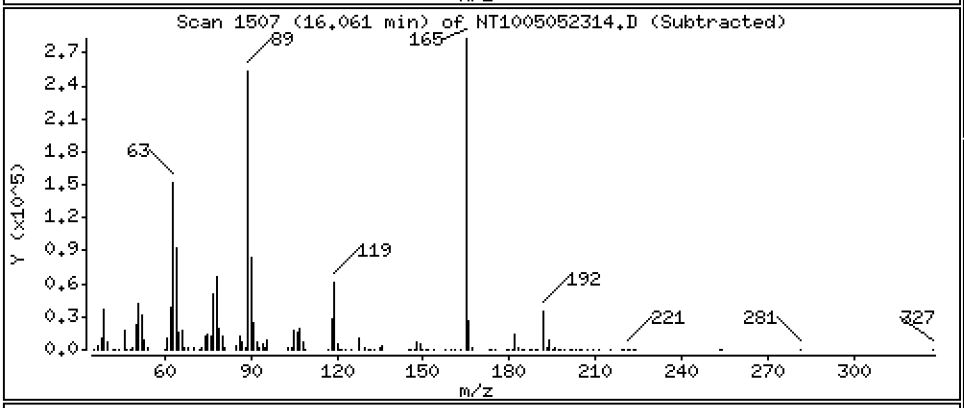
Column phase: ZB-5msi

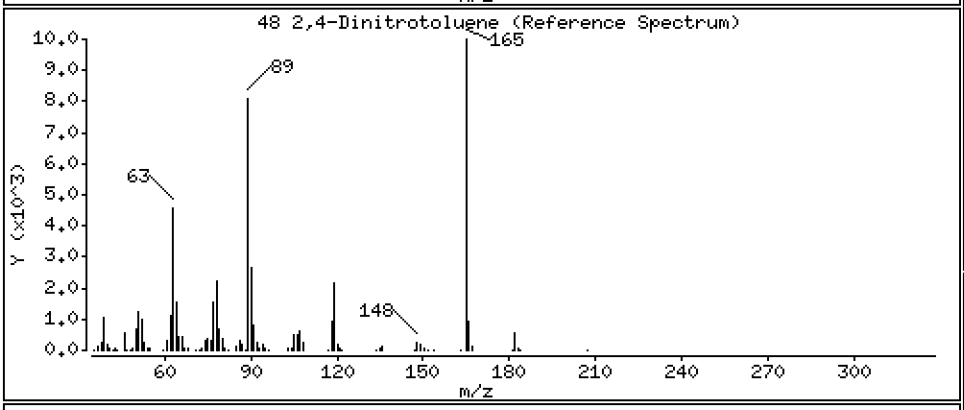
Column diameter: 0.25

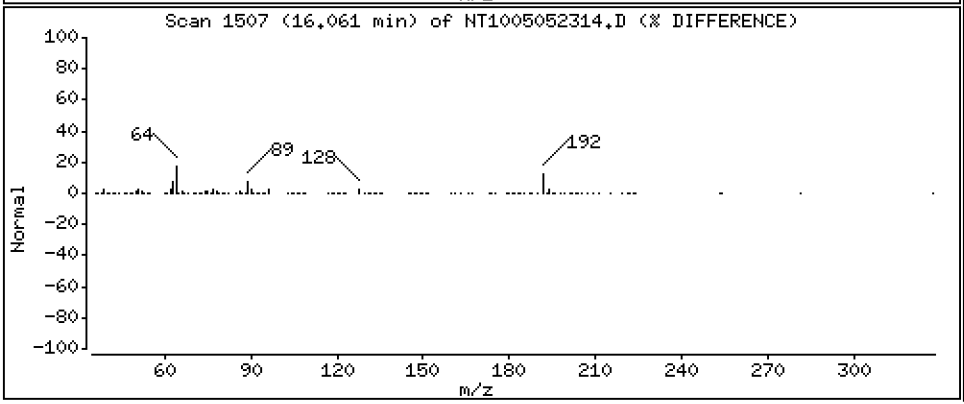
48 2,4-Dinitrotoluene

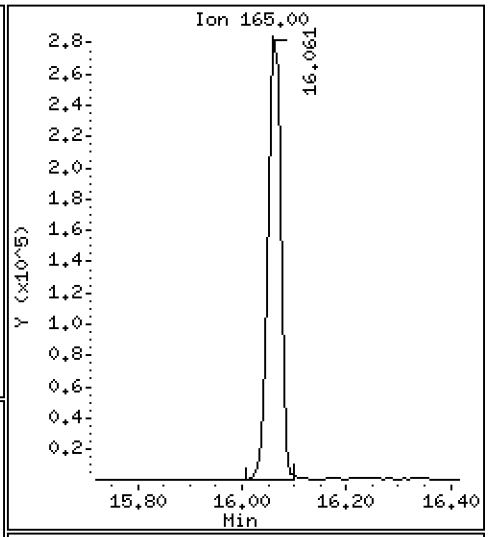
Concentration: 10.75 ug/mL

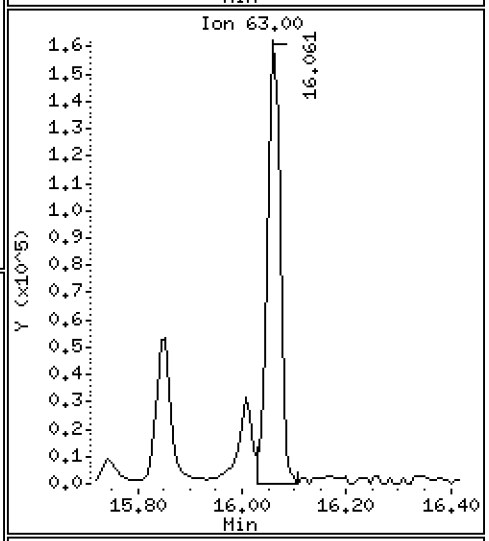


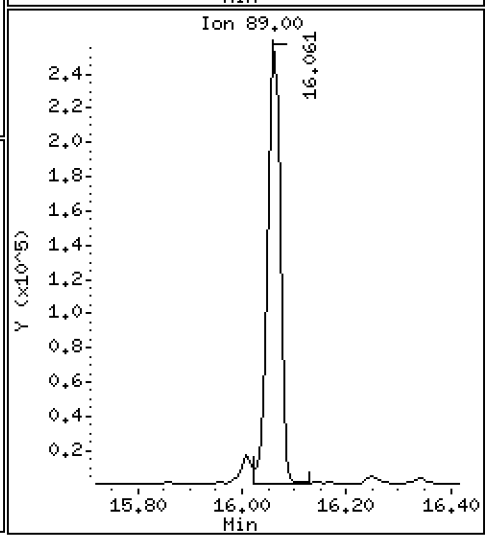












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

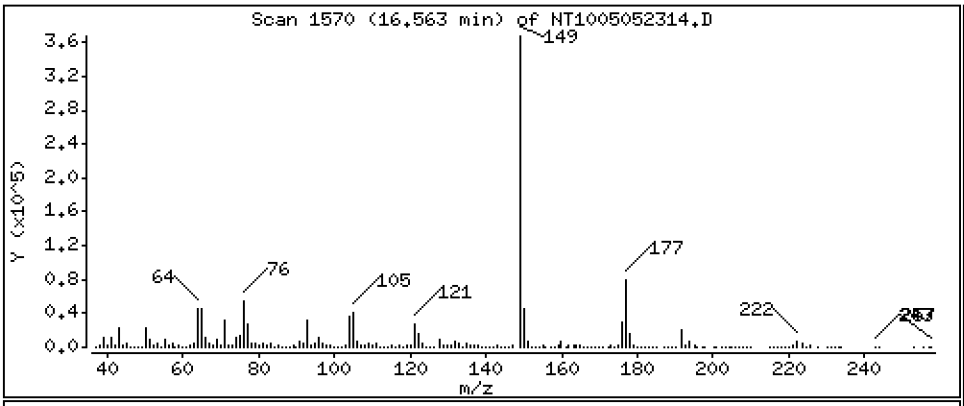
Operator: VTS

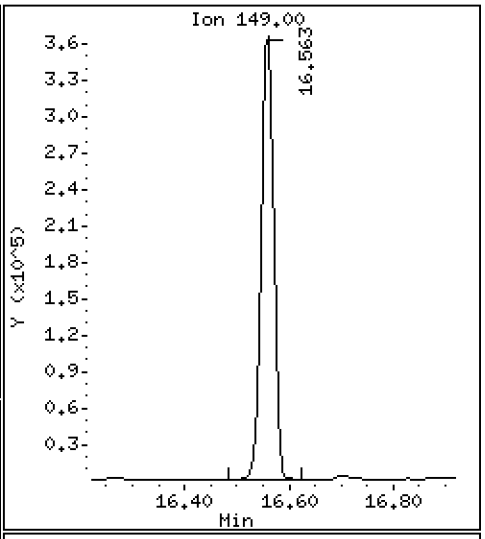
Column phase: ZB-5msi

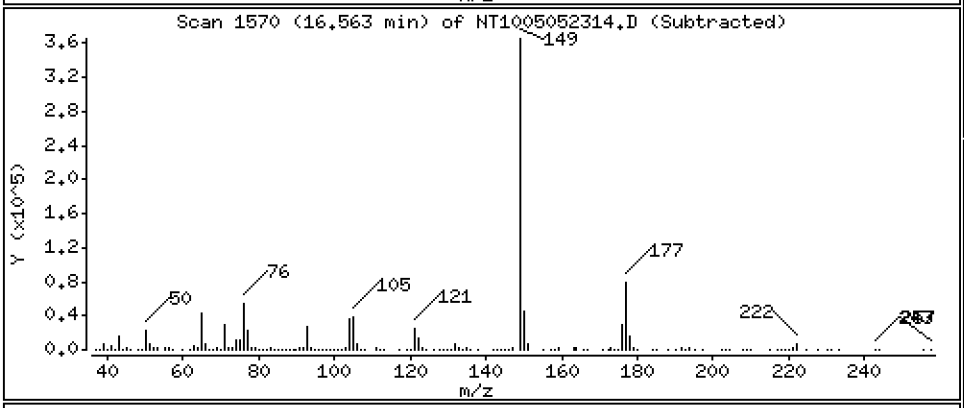
Column diameter: 0.25

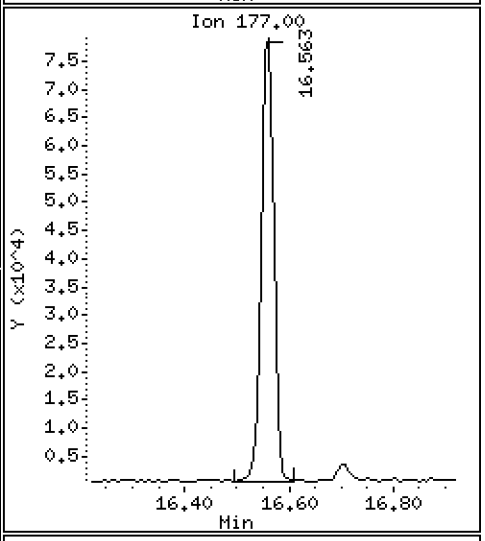
50 Diethylphthalate

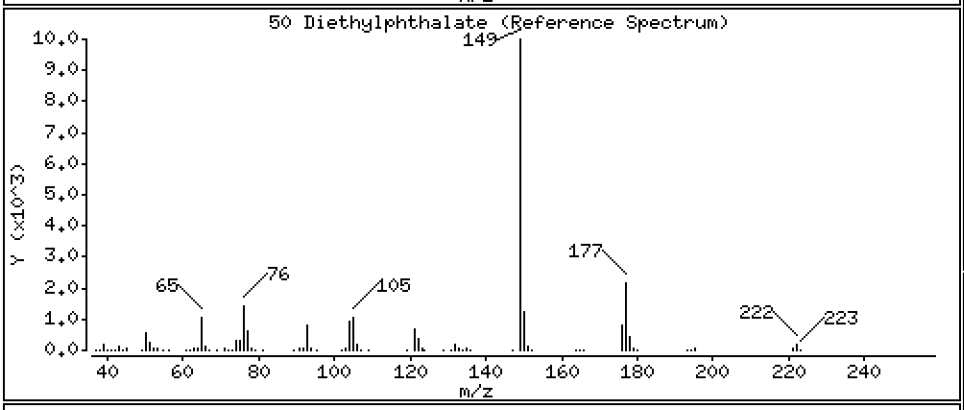
Concentration: 4.841 ug/mL

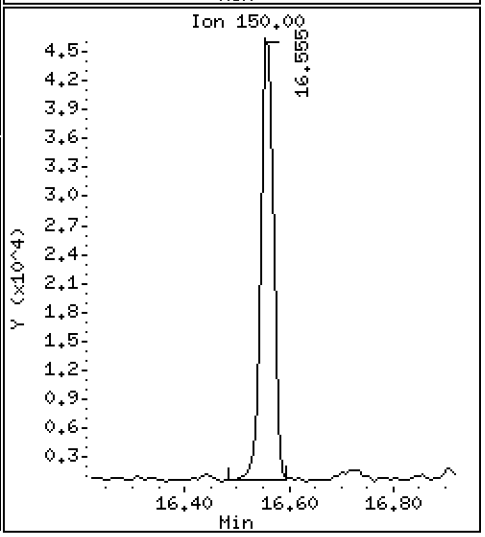


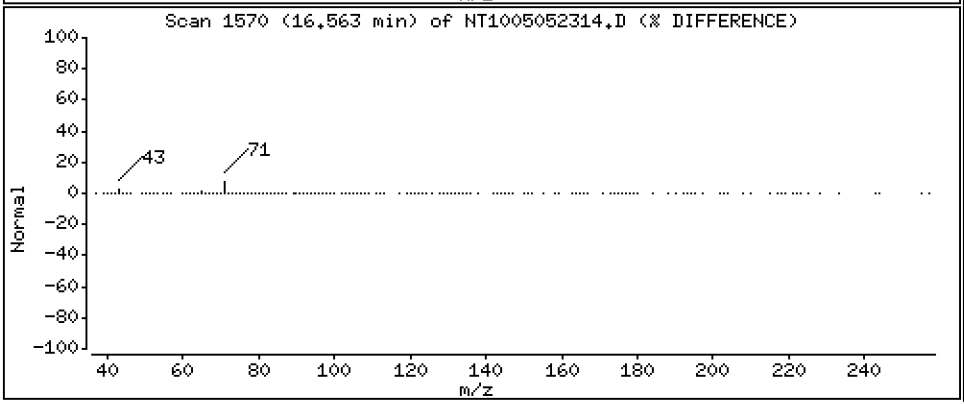












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

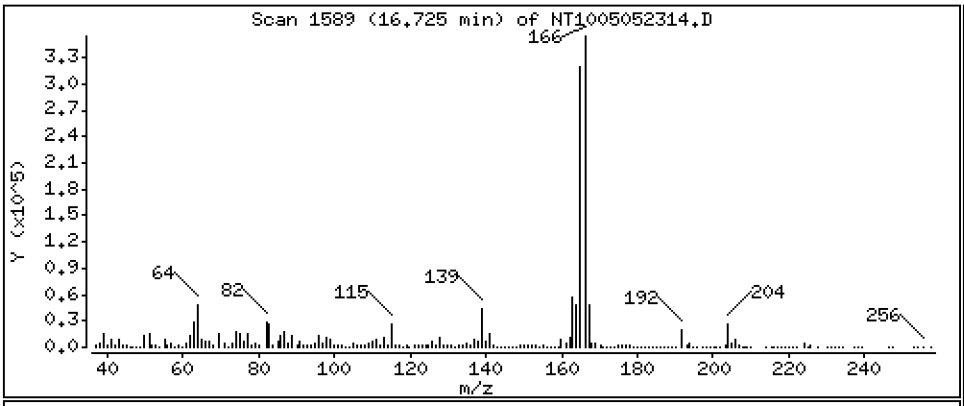
Operator: VTS

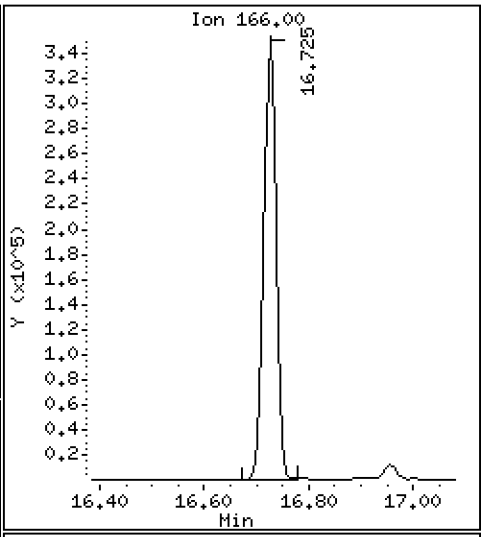
Column phase: ZB-5msi

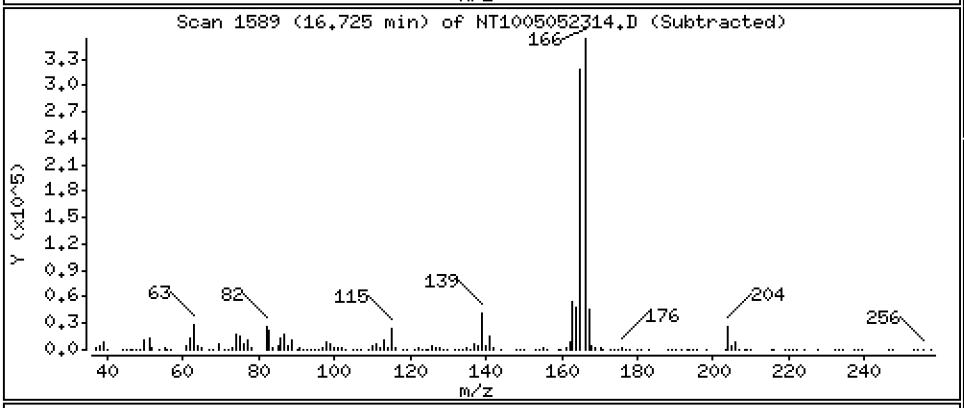
Column diameter: 0.25

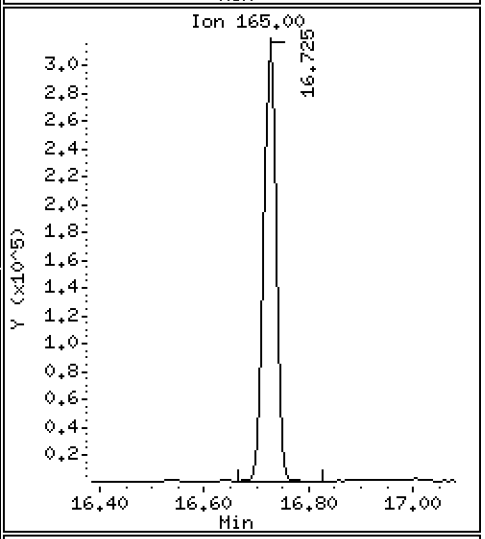
49 Fluorene

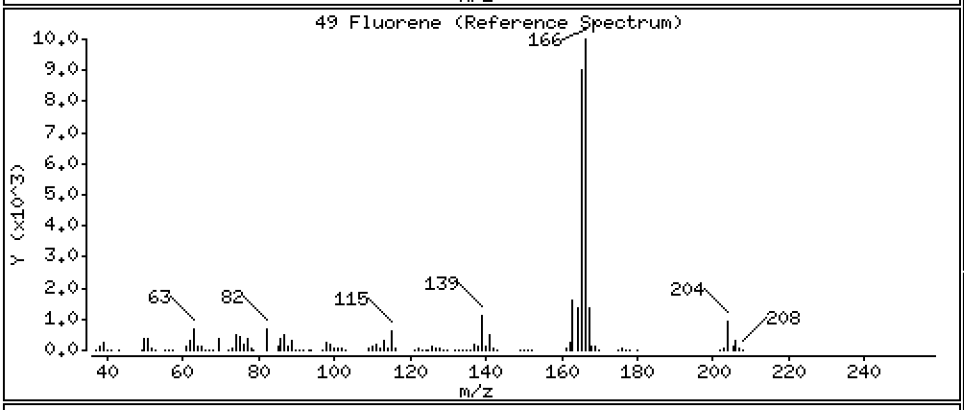
Concentration: 3.941 ug/mL

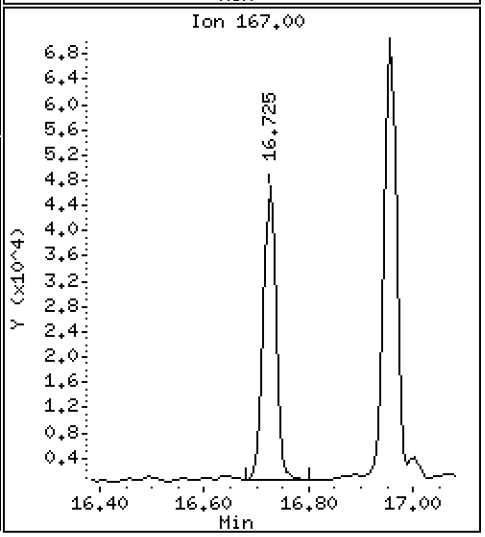


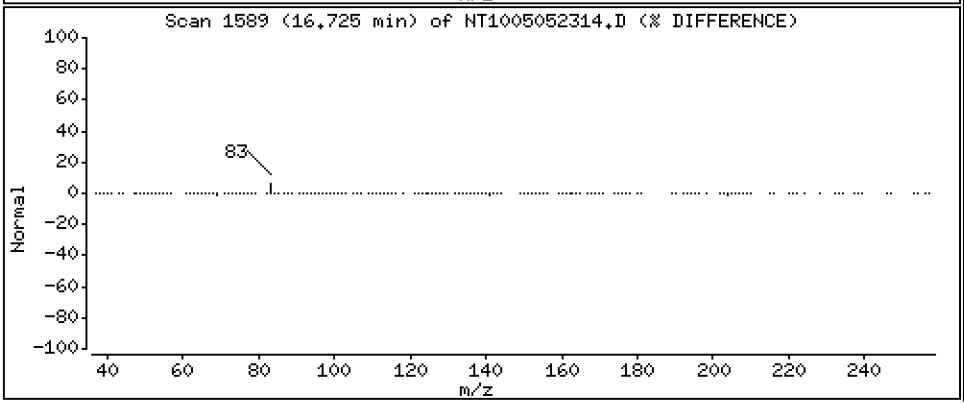












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

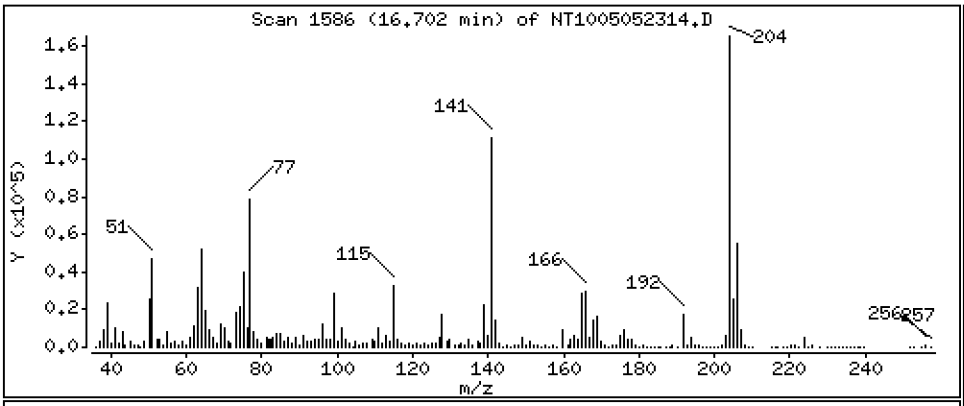
Operator: VTS

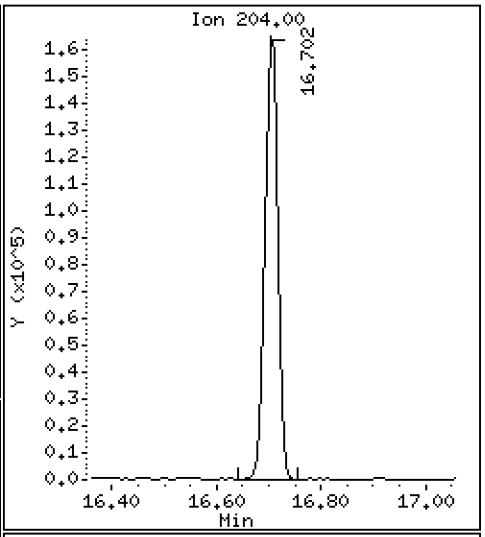
Column phase: ZB-5msi

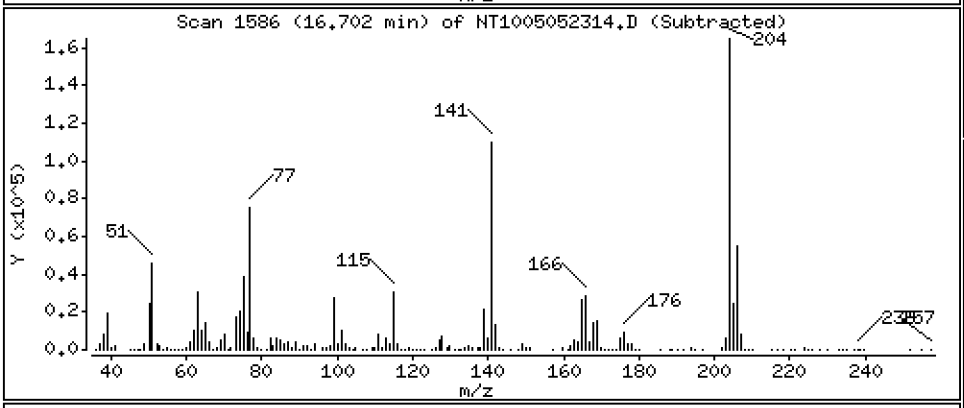
Column diameter: 0.25

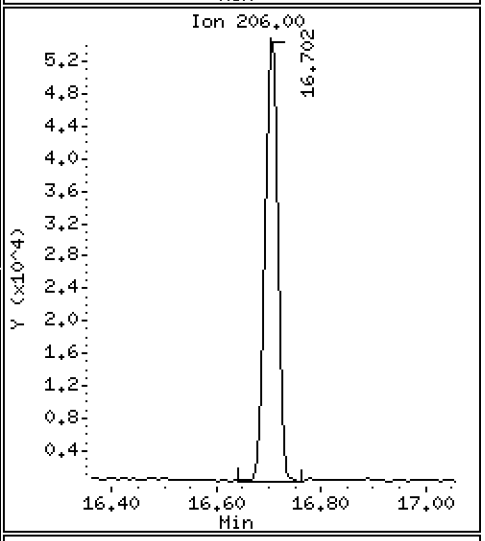
51 4-Chlorophenyl-phenylether

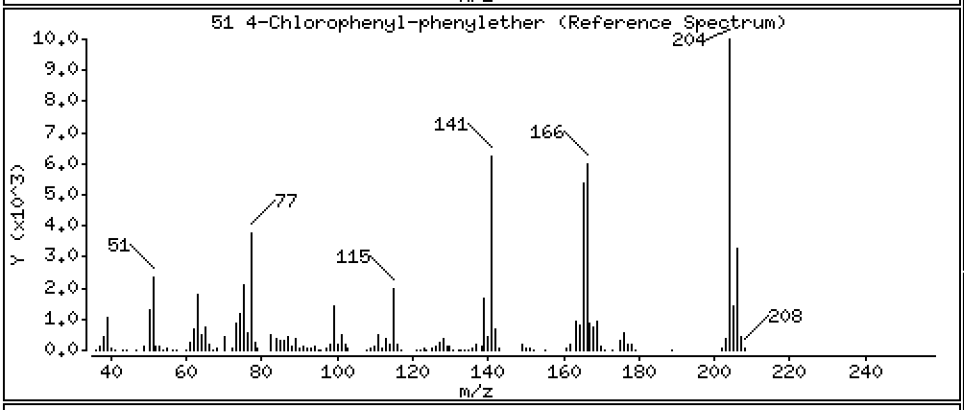
Concentration: 4.490 ug/mL

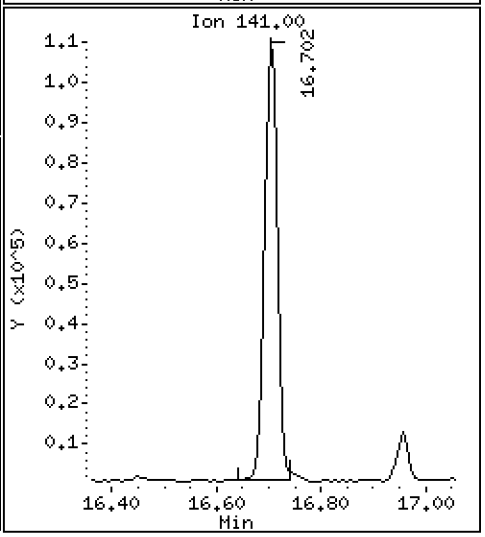


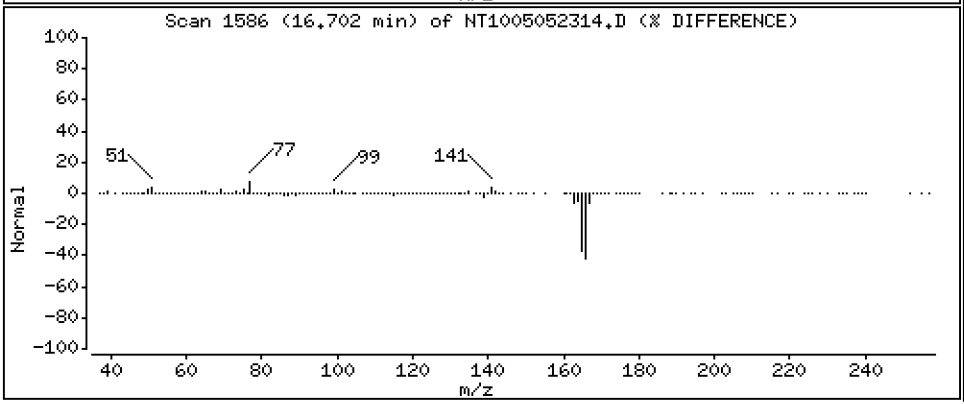












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

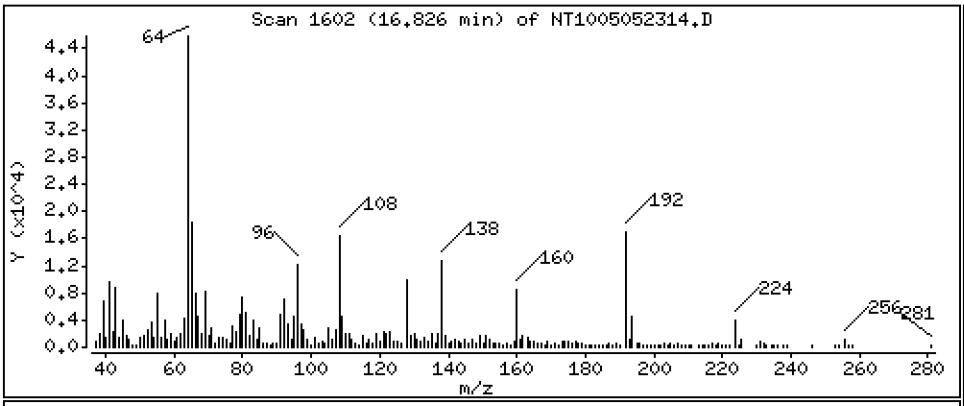
Operator: VTS

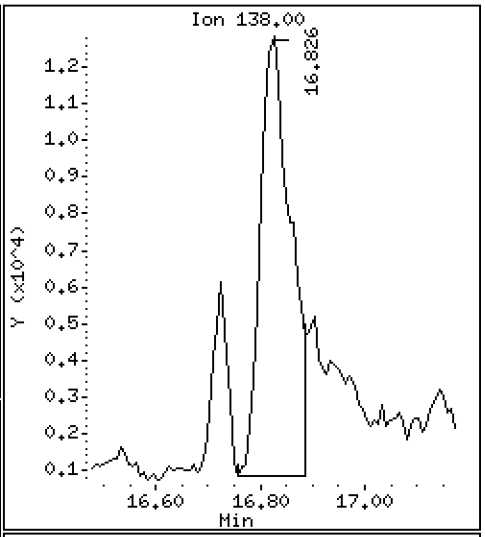
Column phase: ZB-5msi

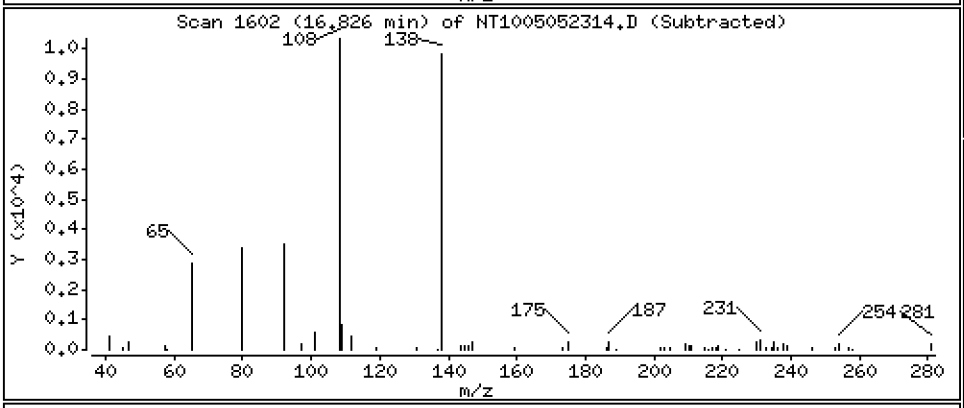
Column diameter: 0.25

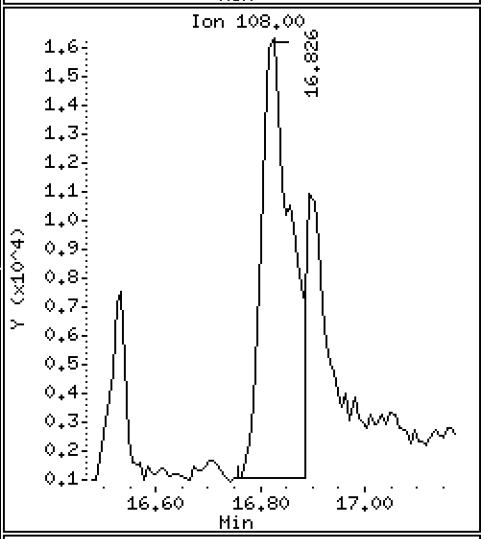
52 4-Nitroaniline

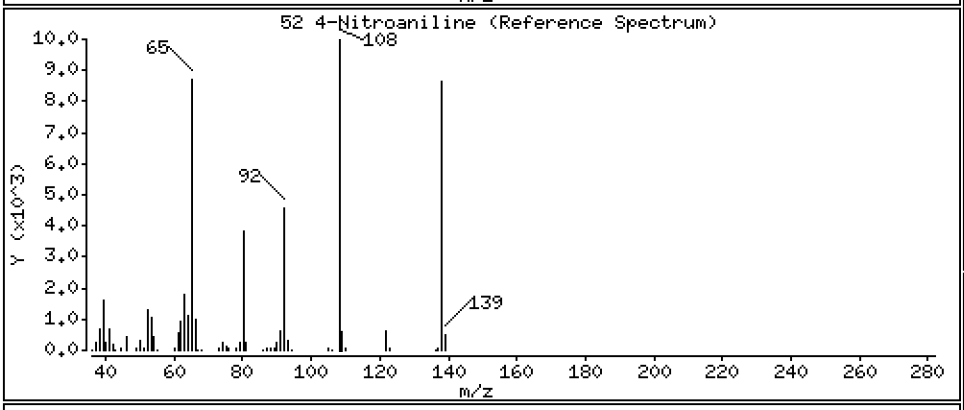
Concentration: 1.729 ug/mL

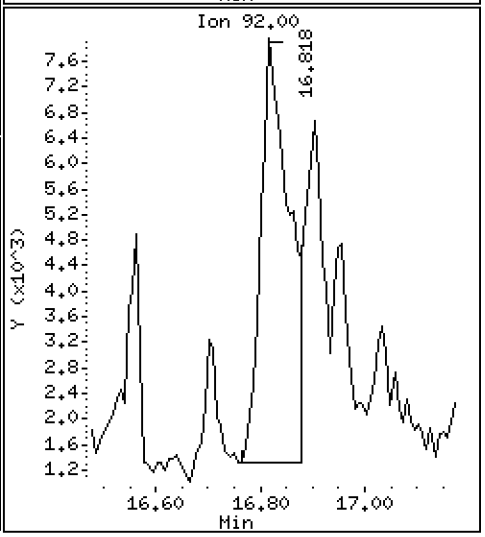


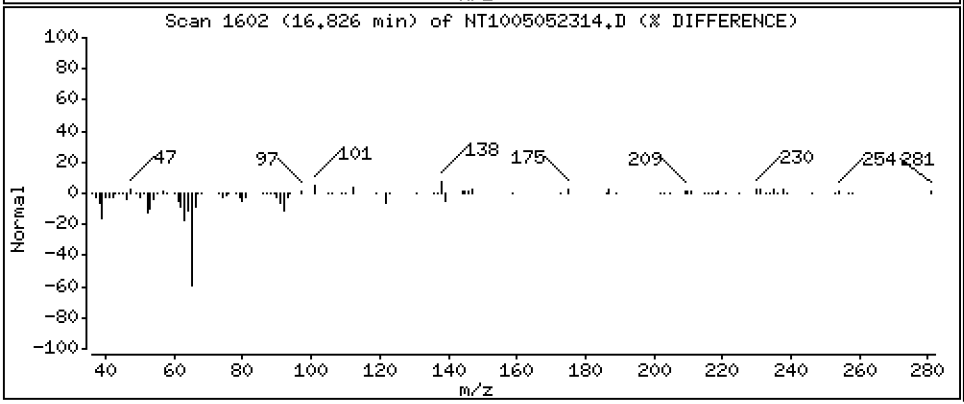












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

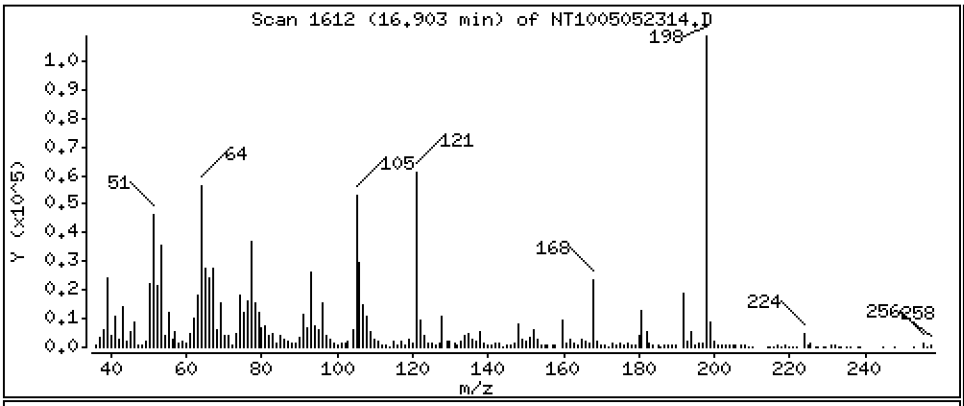
Operator: VTS

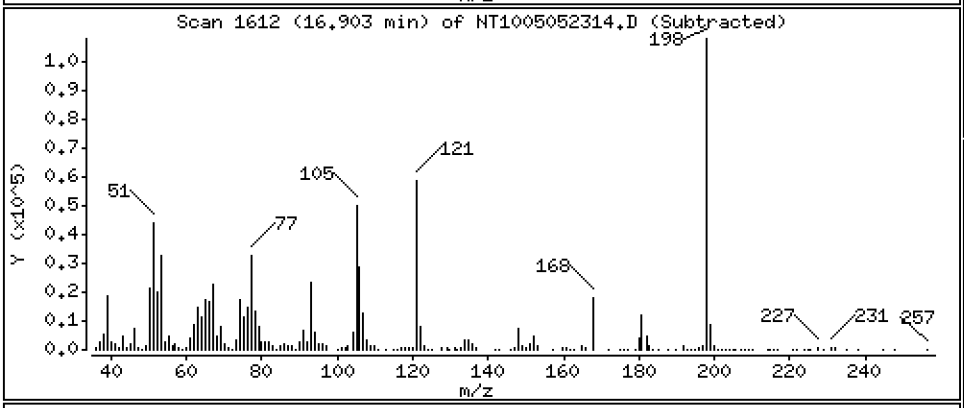
Column phase: ZB-5msi

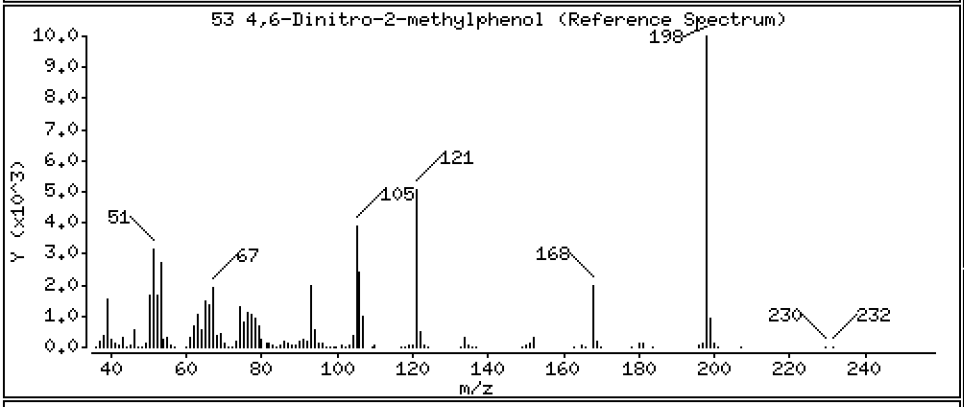
Column diameter: 0.25

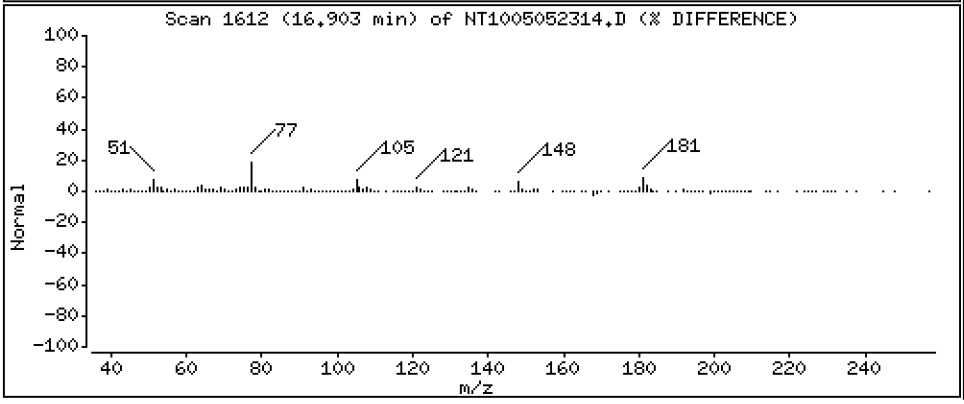
53 4,6-Dinitro-2-methylphenol

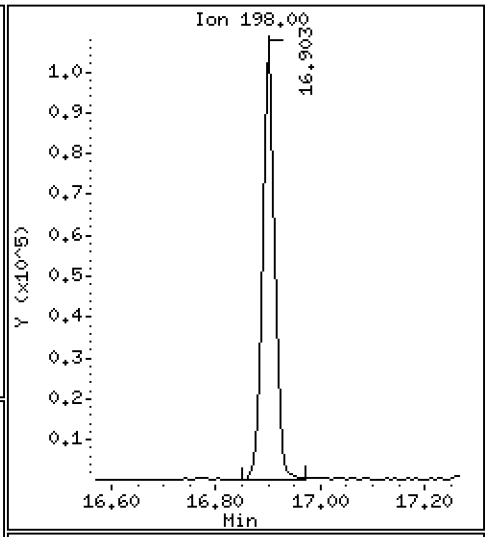
Concentration: 7.106 ug/mL

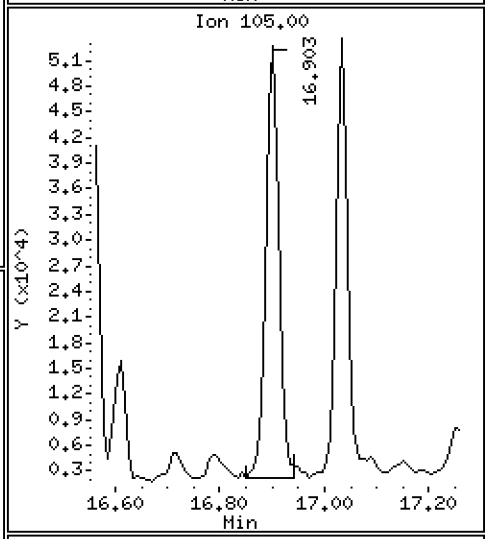


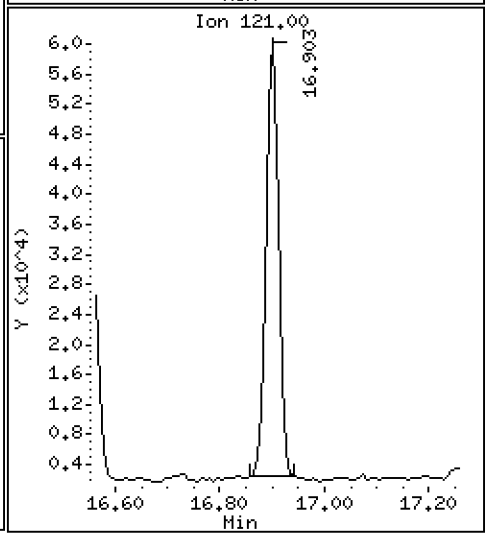












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

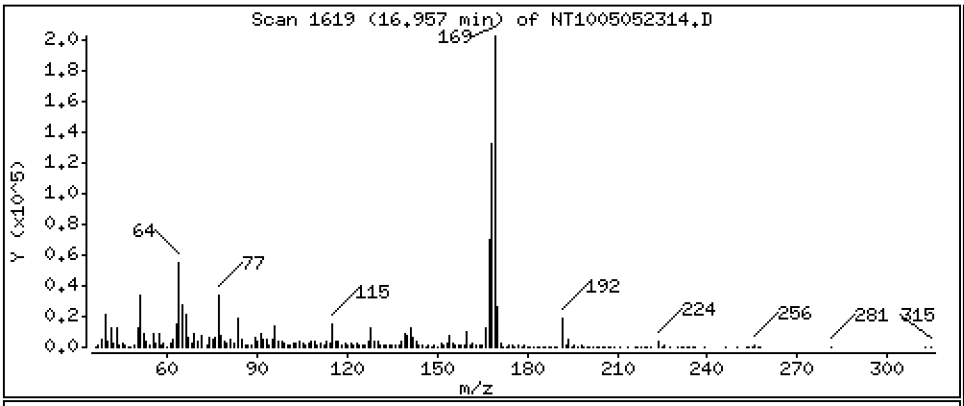
Operator: VTS

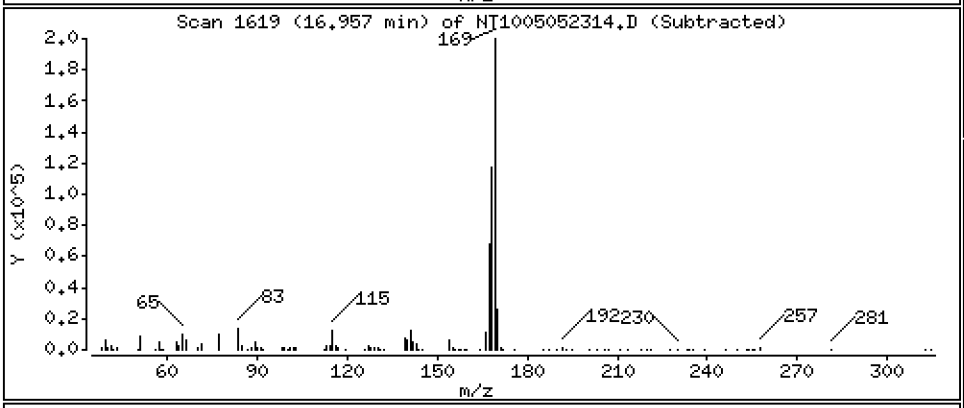
Column phase: ZB-5msi

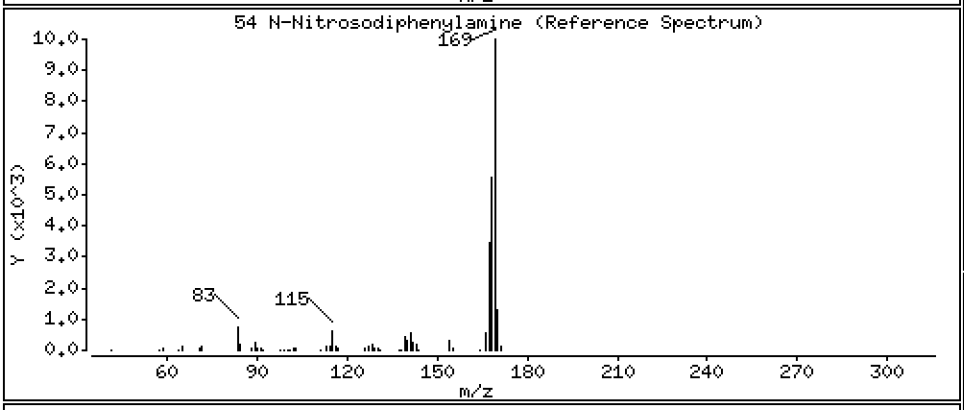
Column diameter: 0.25

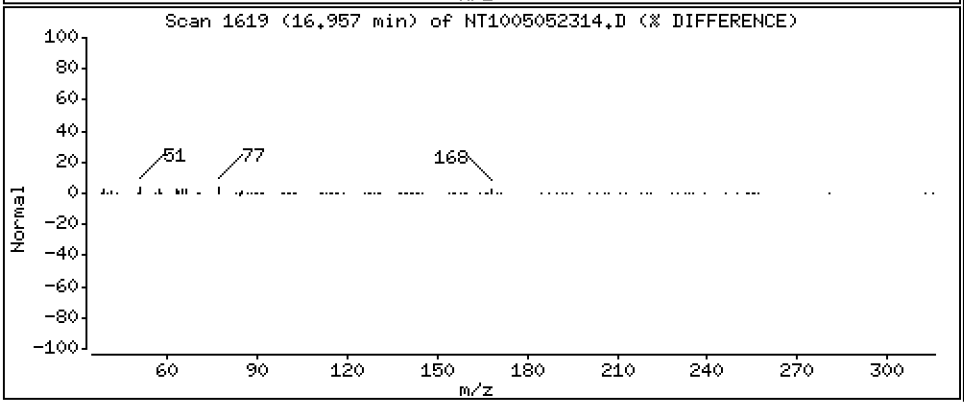
54 N-Nitrosodiphenylamine

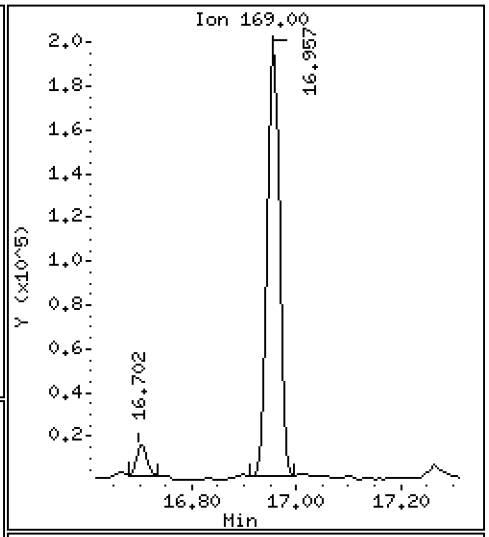
Concentration: 3.816 ug/mL

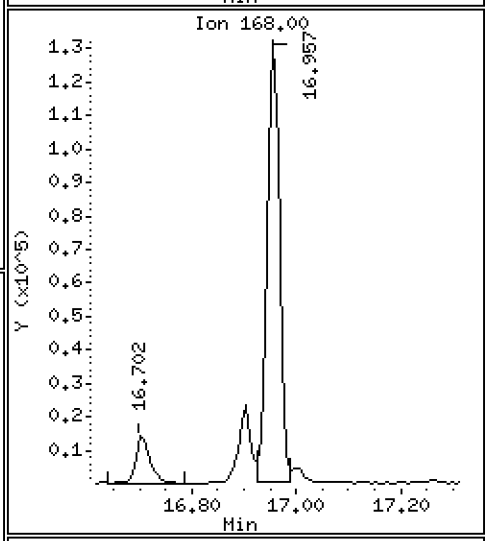


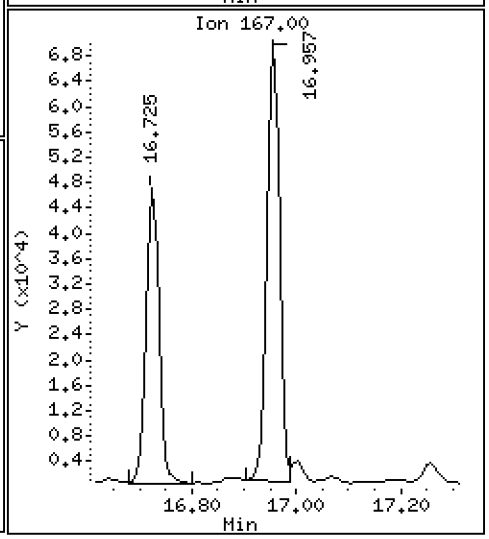












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

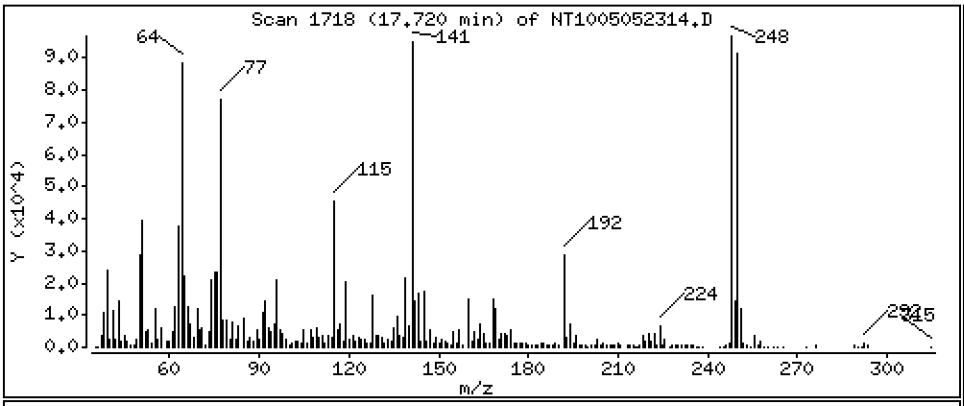
Operator: VTS

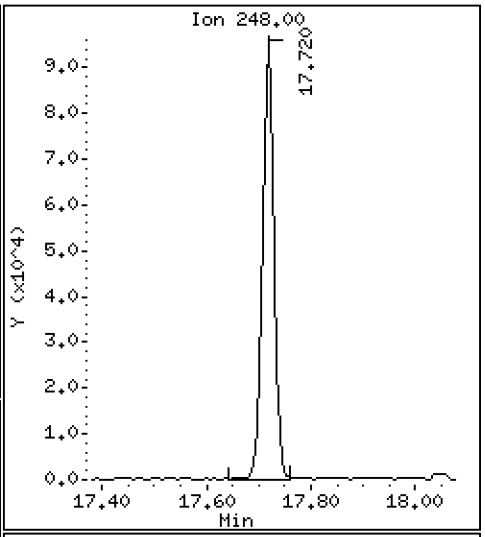
Column phase: ZB-5msi

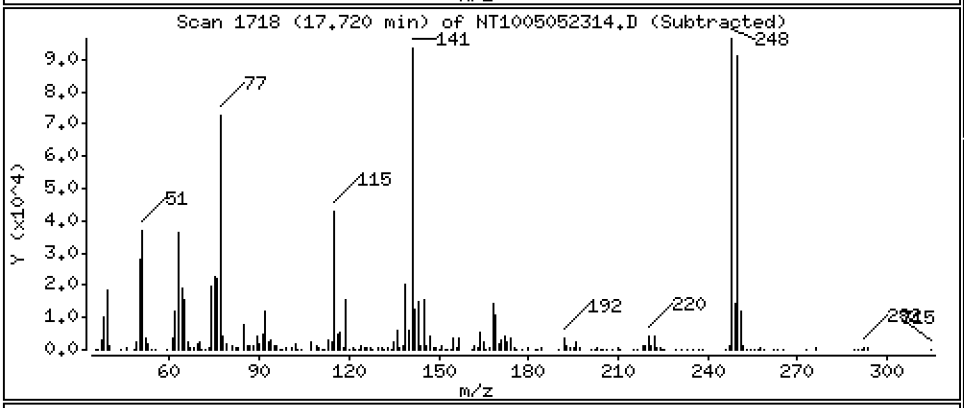
Column diameter: 0.25

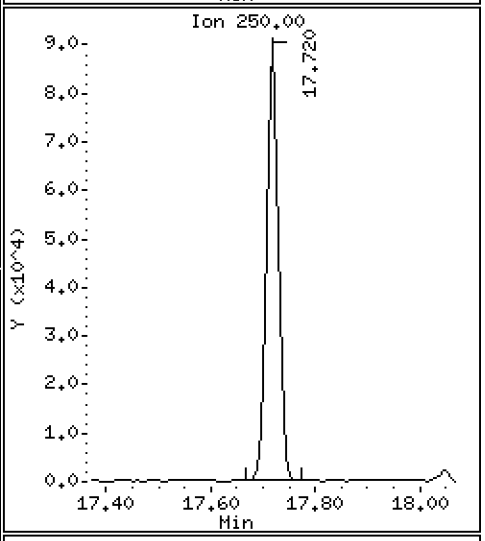
56 4-Bromophenyl-phenylether

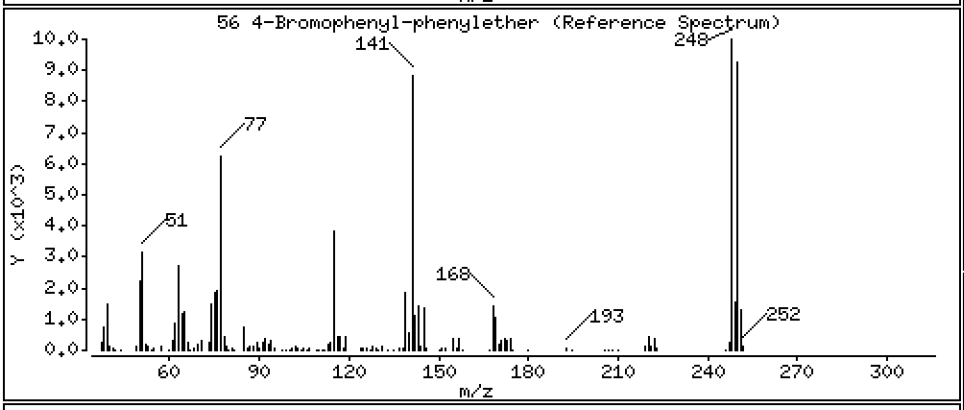
Concentration: 3.977 ug/mL

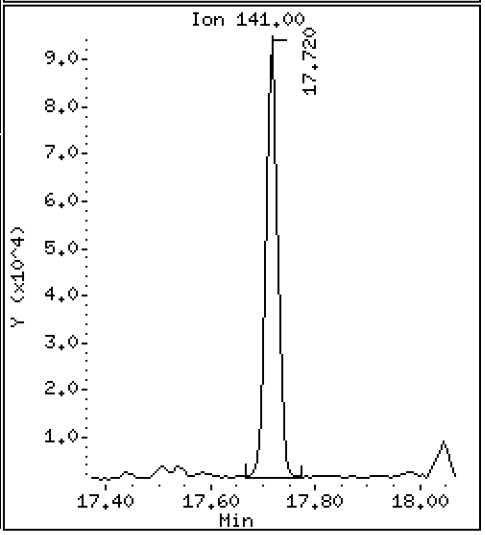


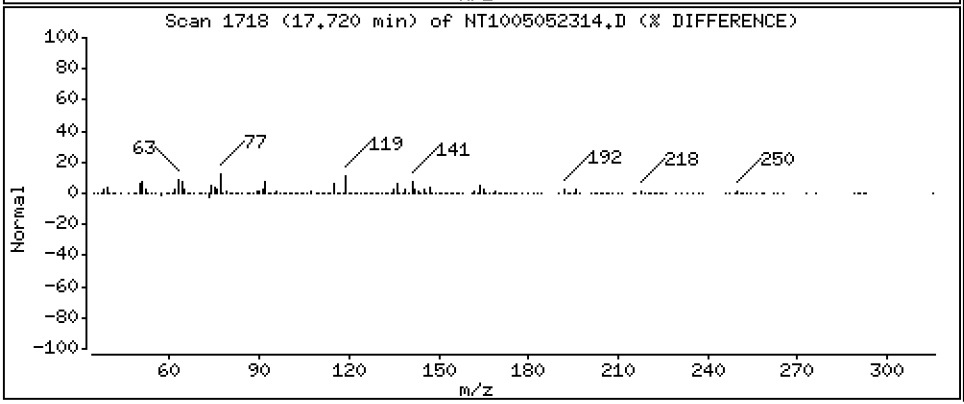












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

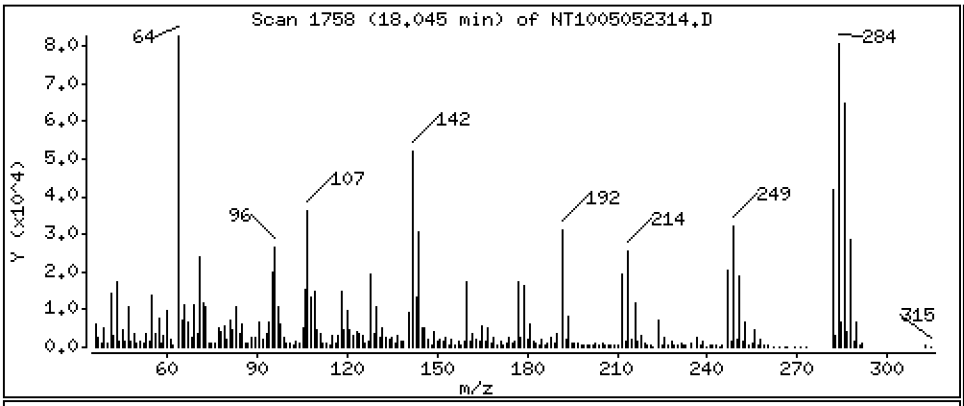
Operator: VTS

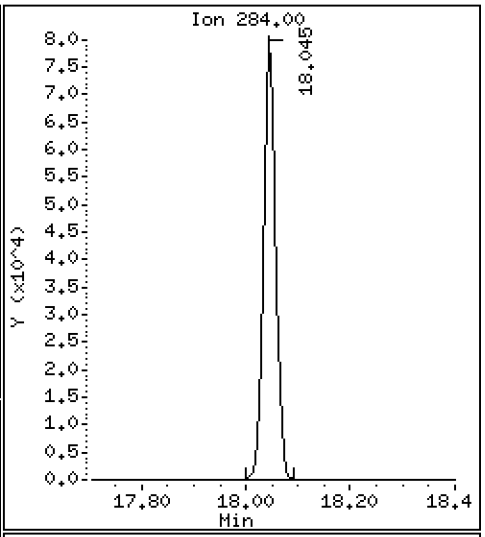
Column phase: ZB-5msi

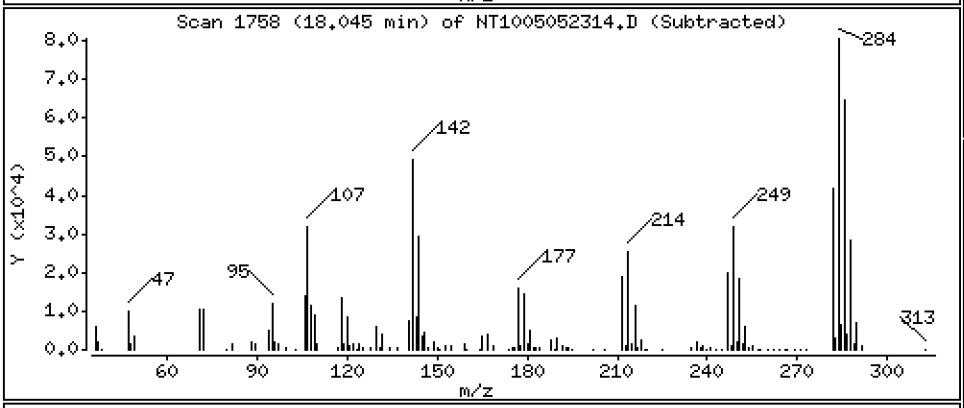
Column diameter: 0.25

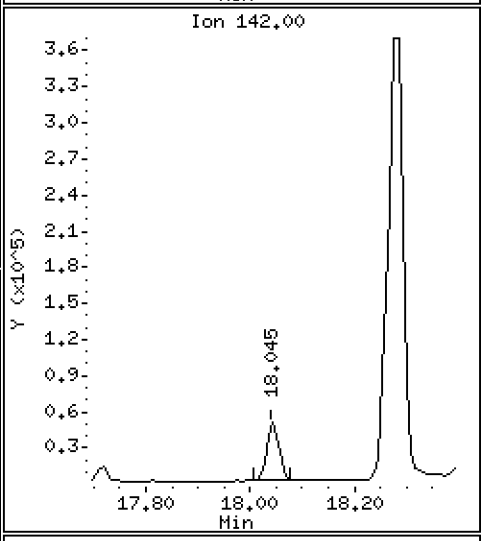
57 Hexachlorobenzene

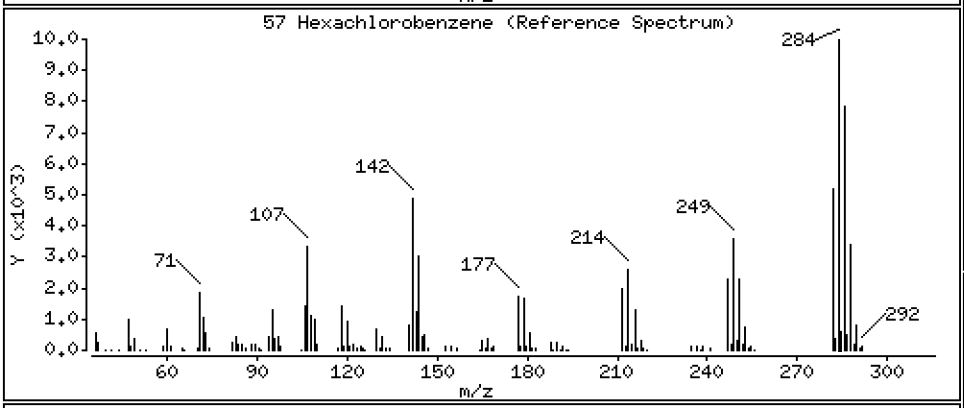
Concentration: 3.459 ug/mL

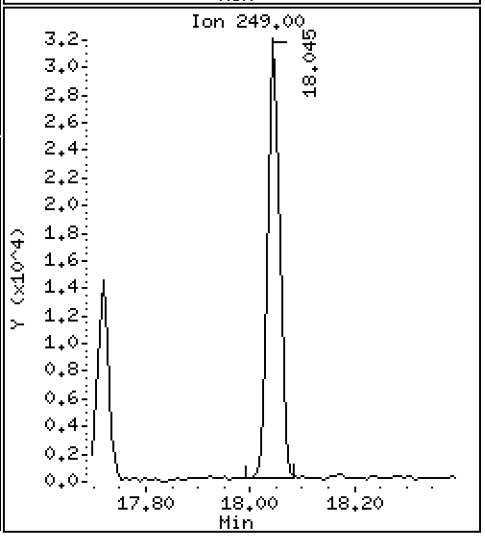


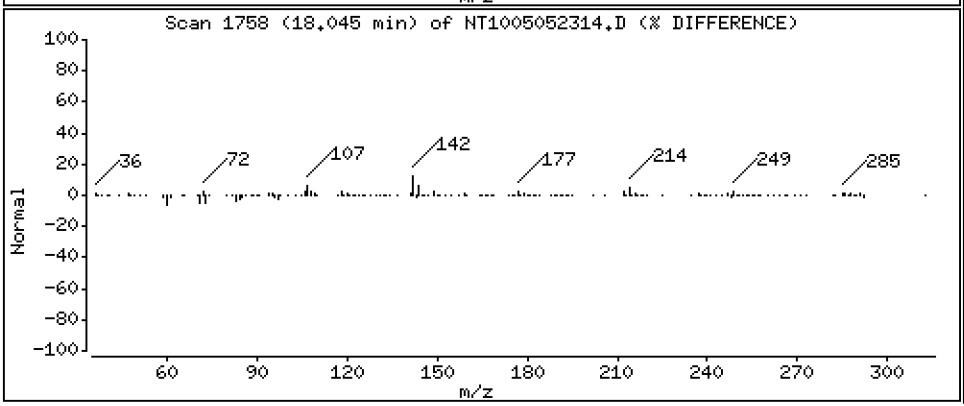












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

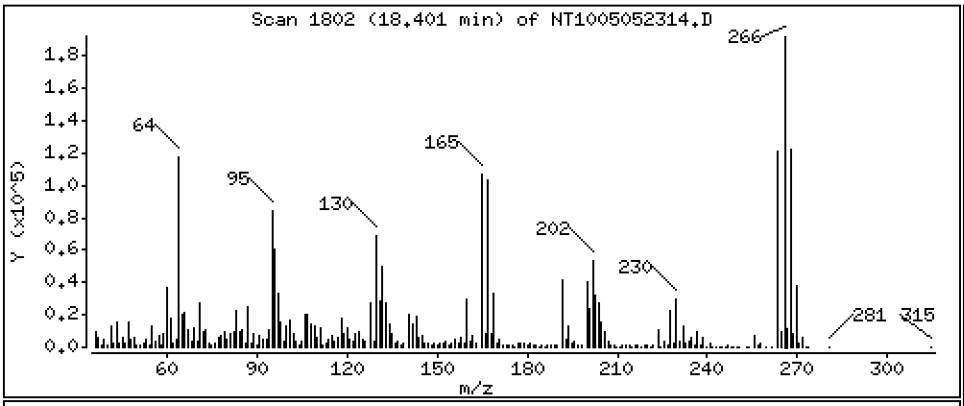
Operator: VTS

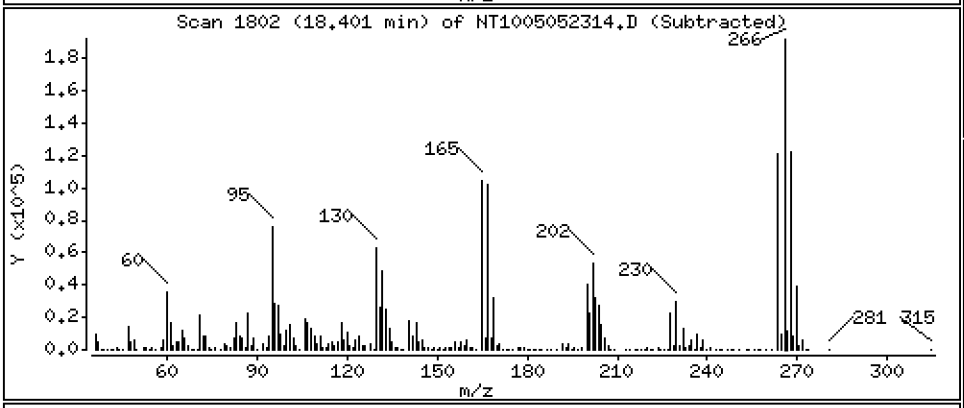
Column phase: ZB-5msi

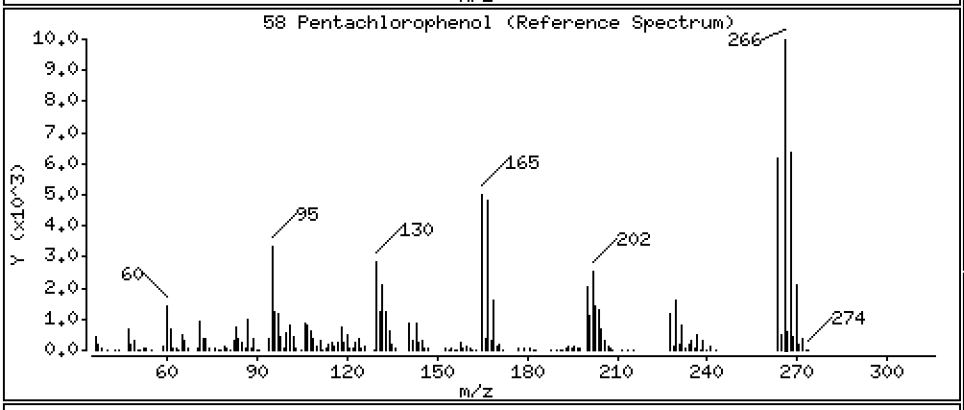
Column diameter: 0.25

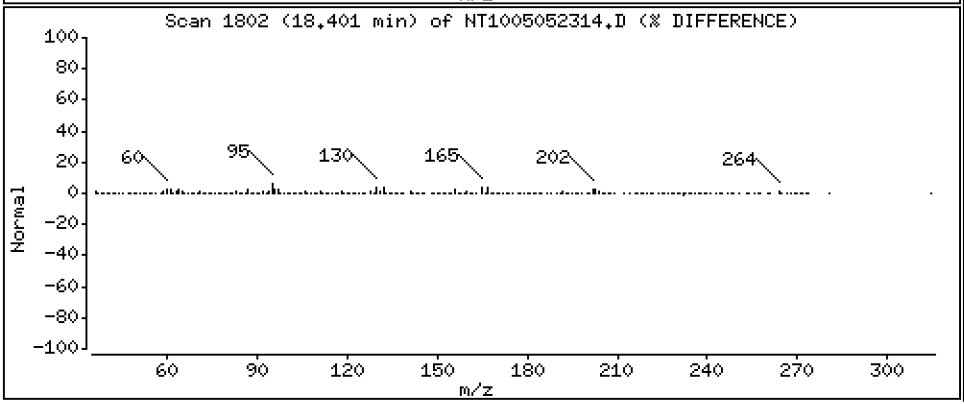
58 Pentachlorophenol

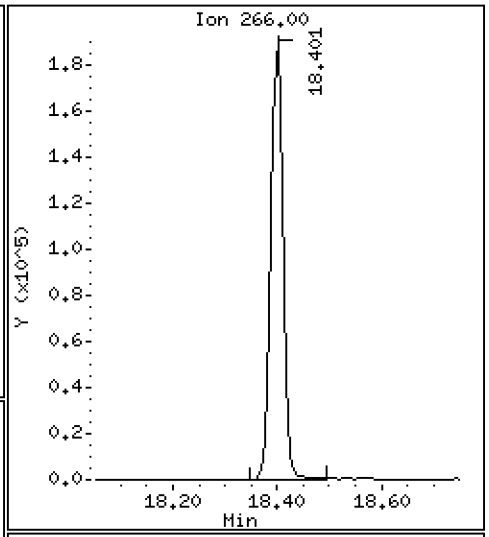
Concentration: 10.92 ug/mL

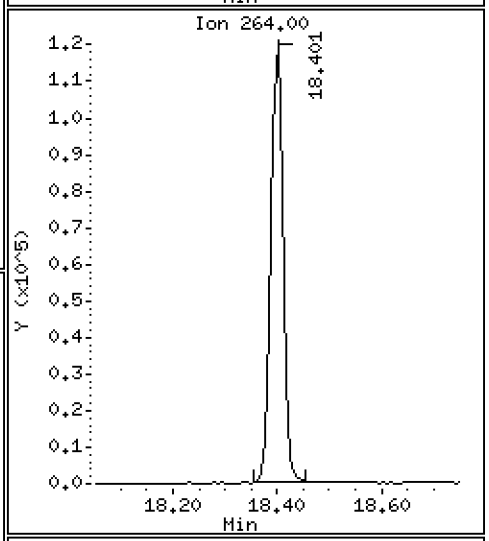


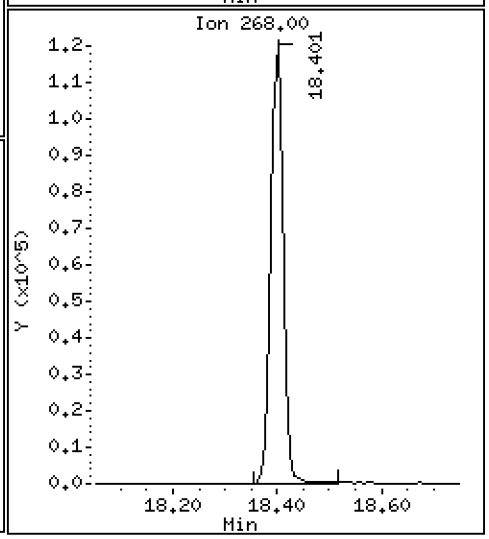












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

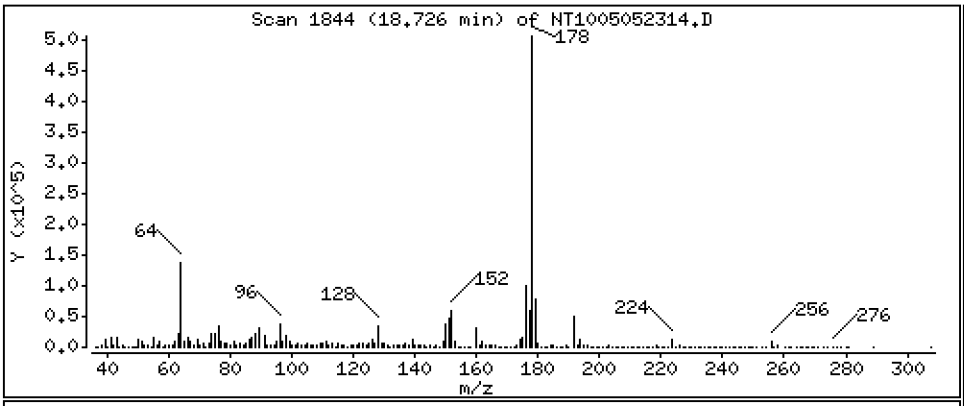
Operator: VTS

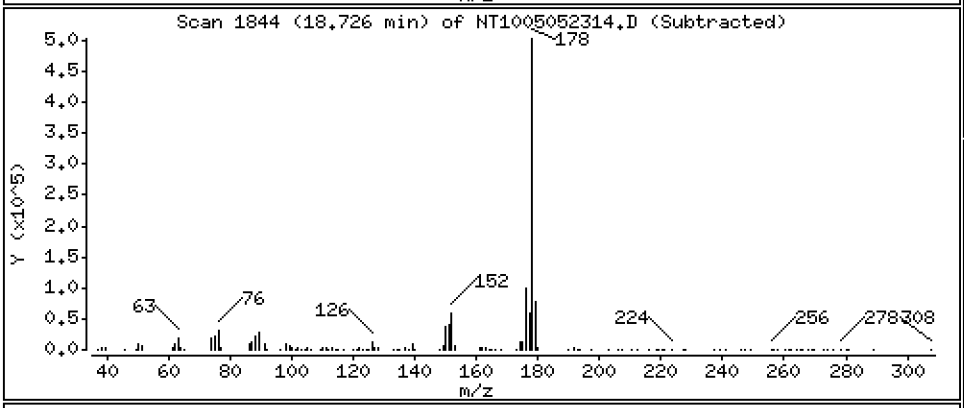
Column phase: ZB-5msi

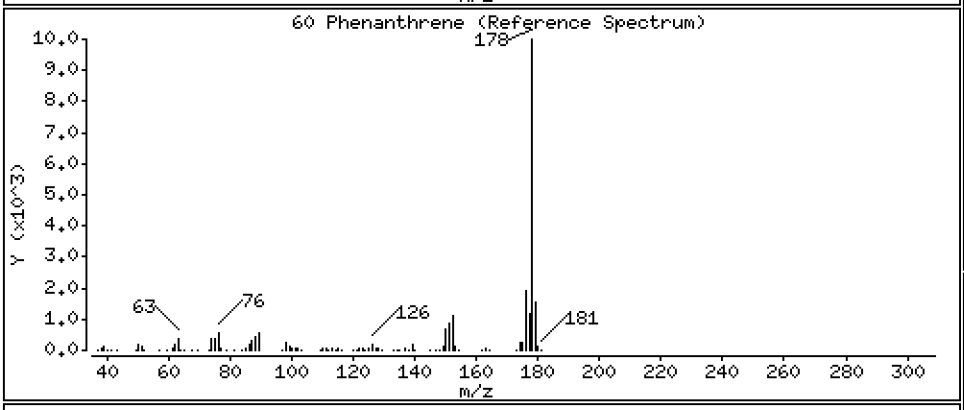
Column diameter: 0.25

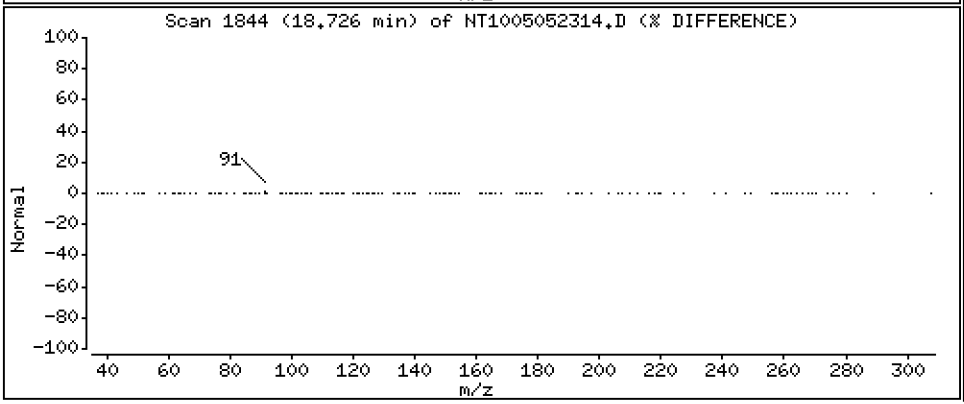
60 Phenanthrene

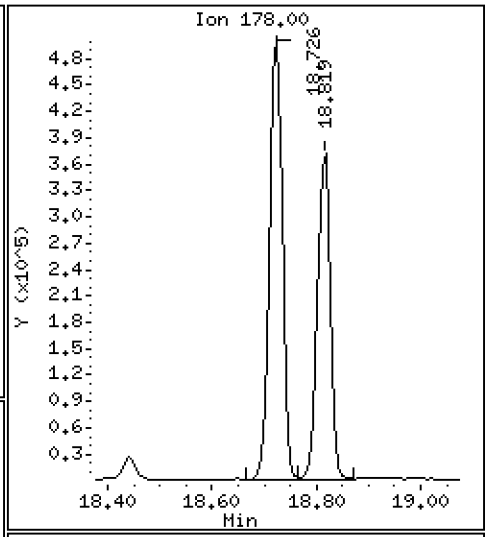
Concentration: 4.637 ug/mL

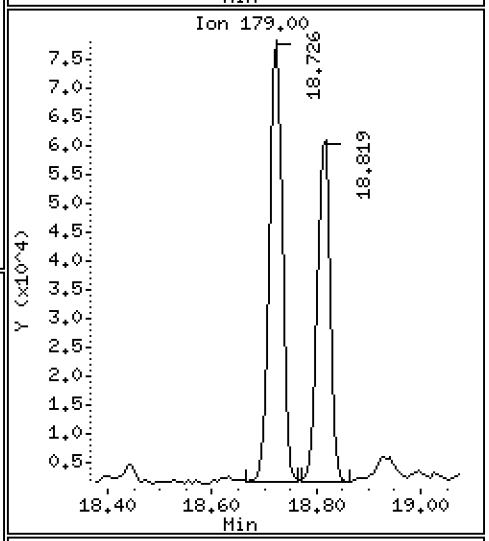


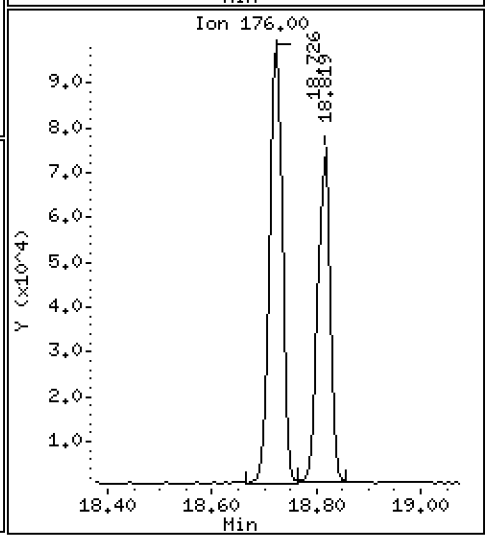












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

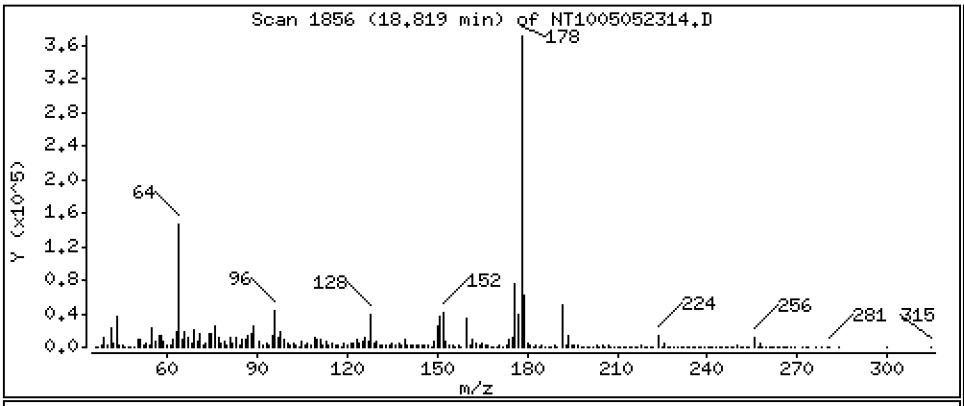
Operator: VTS

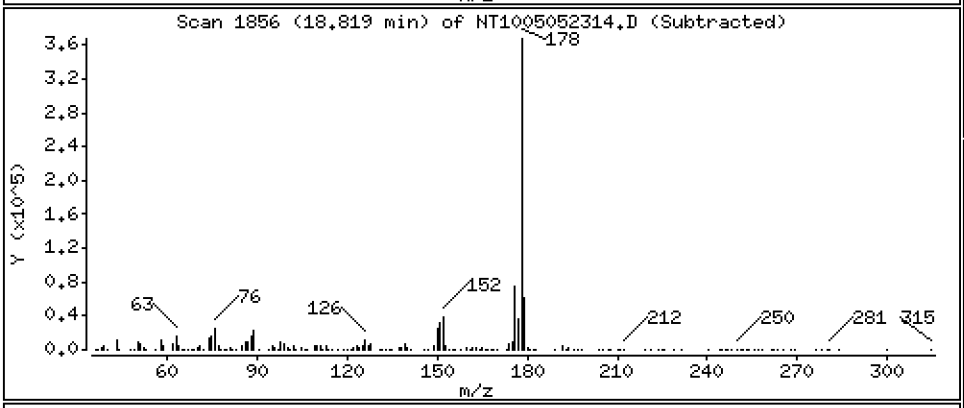
Column phase: ZB-5msi

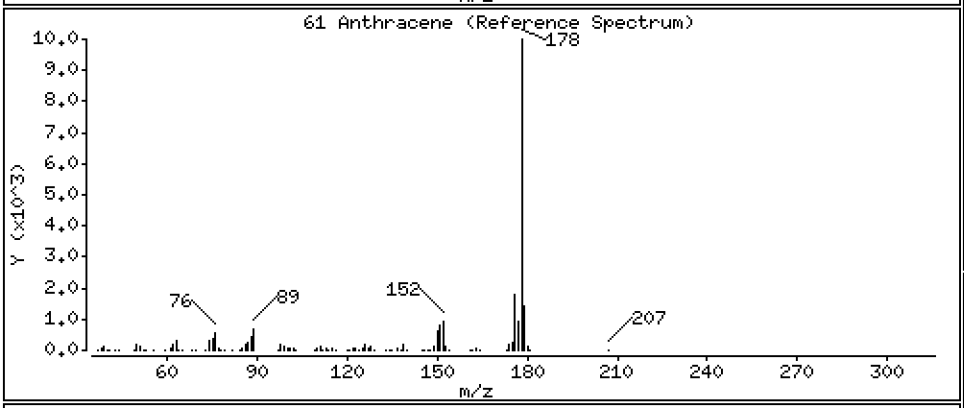
Column diameter: 0.25

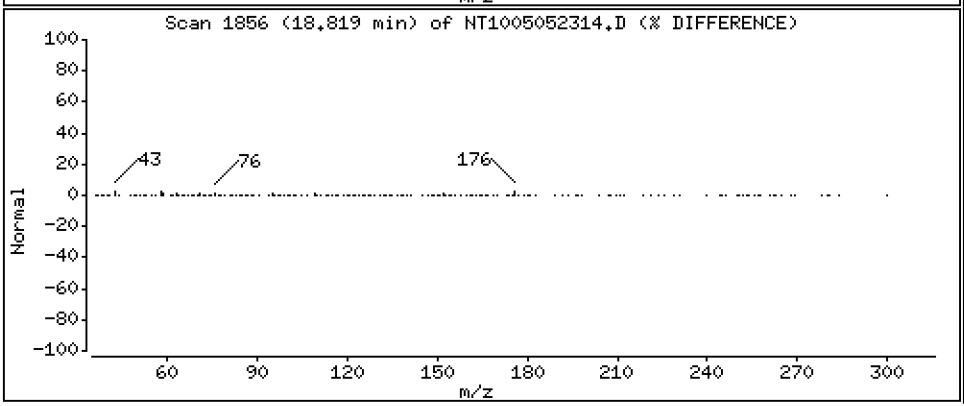
61 Anthracene

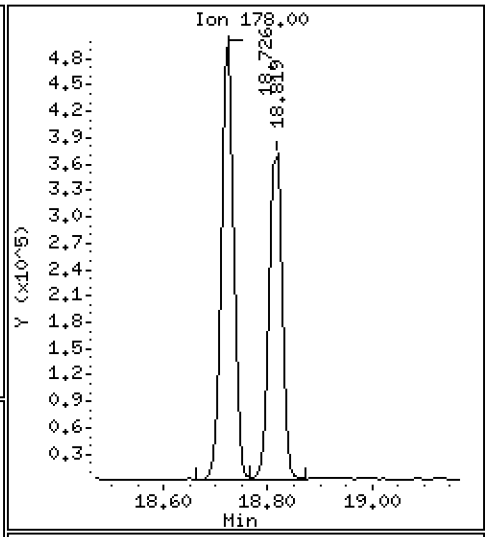
Concentration: 3.776 ug/mL

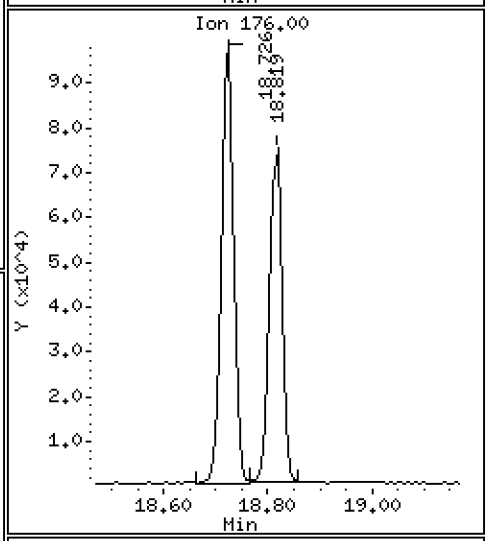


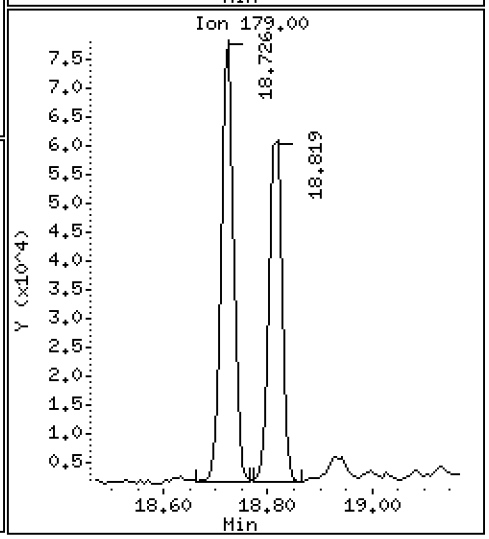












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

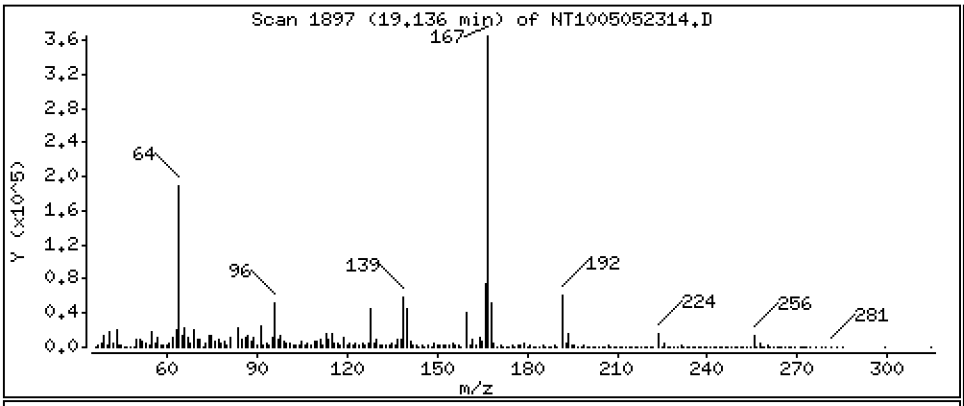
Operator: VTS

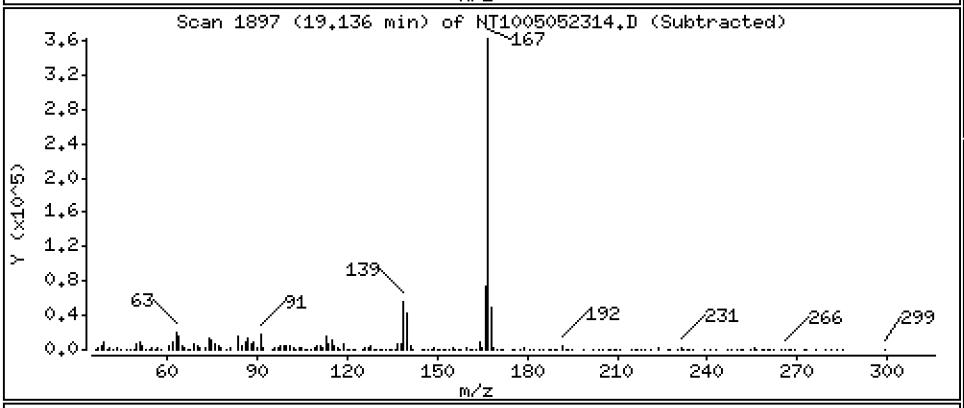
Column phase: ZB-5msi

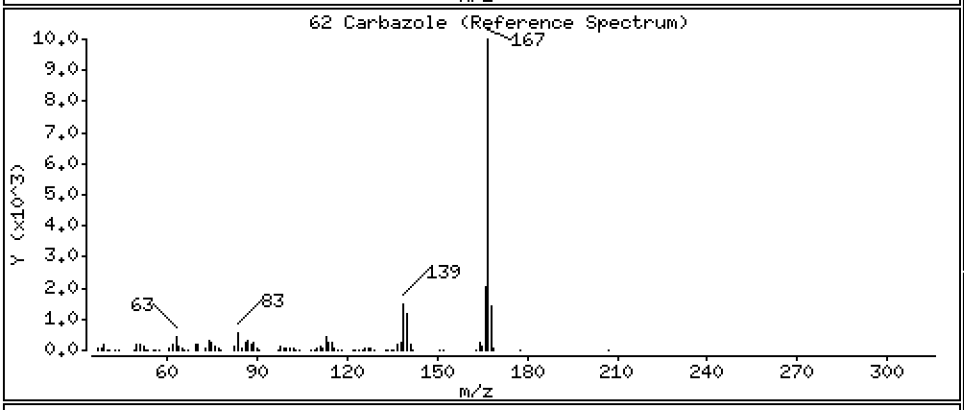
Column diameter: 0.25

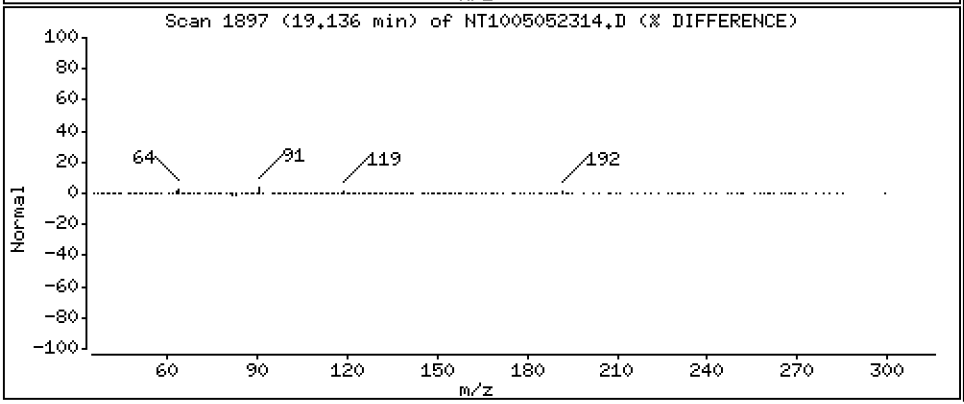
62 Carbazole

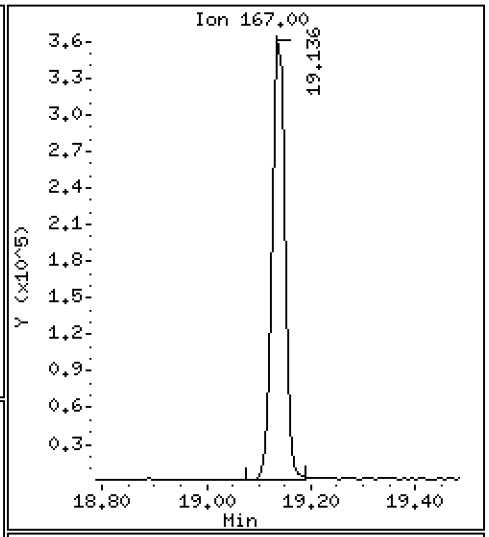
Concentration: 4.063 ug/mL

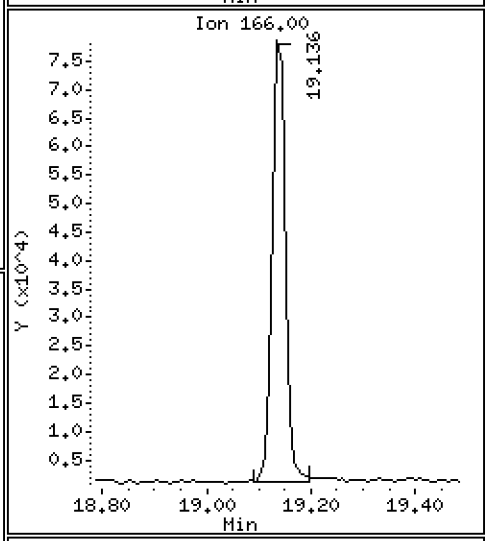


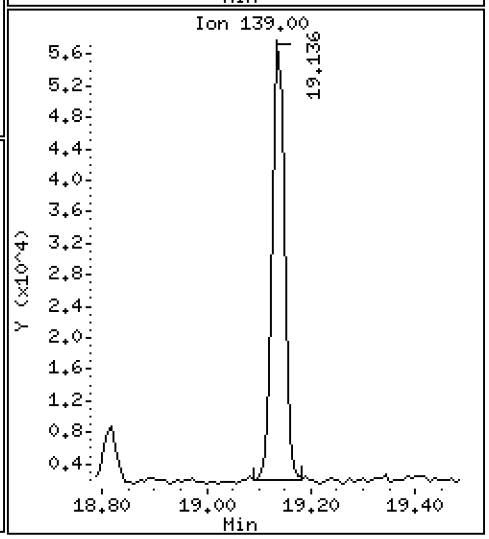












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

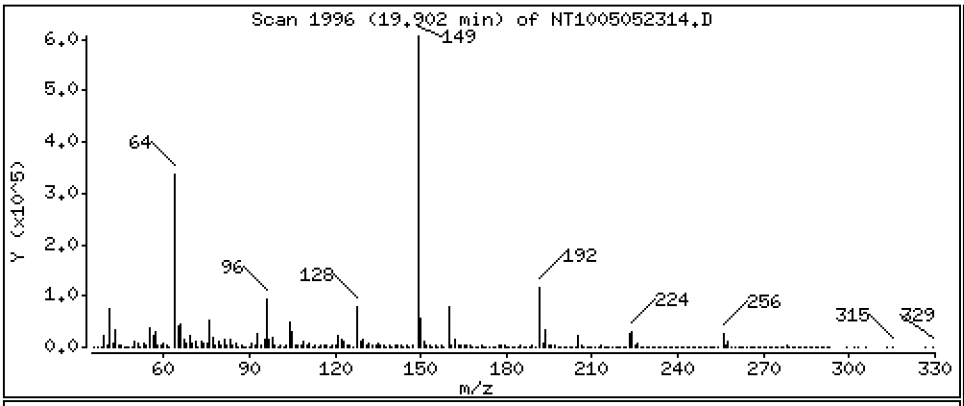
Operator: VTS

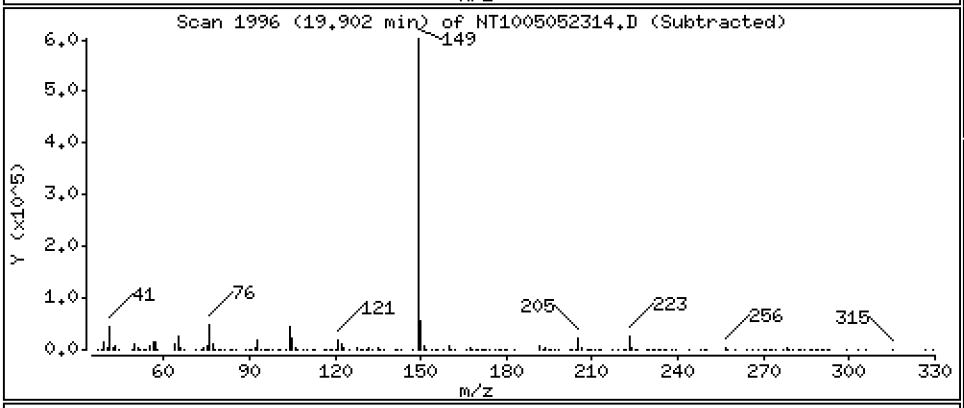
Column phase: ZB-5msi

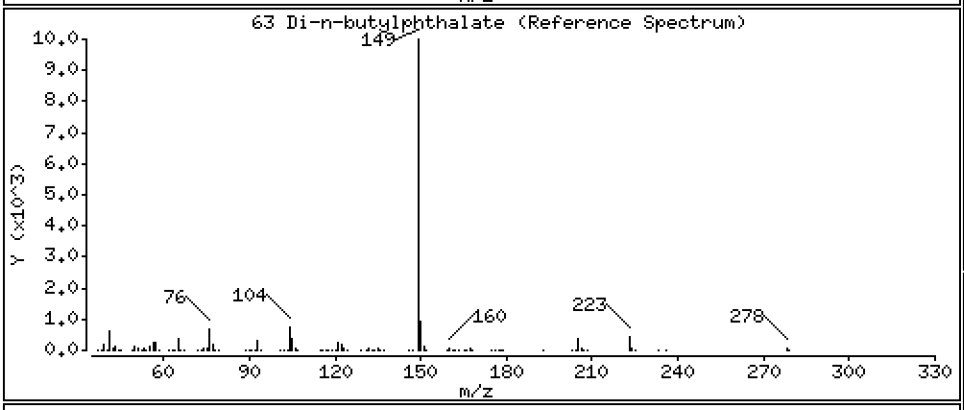
Column diameter: 0.25

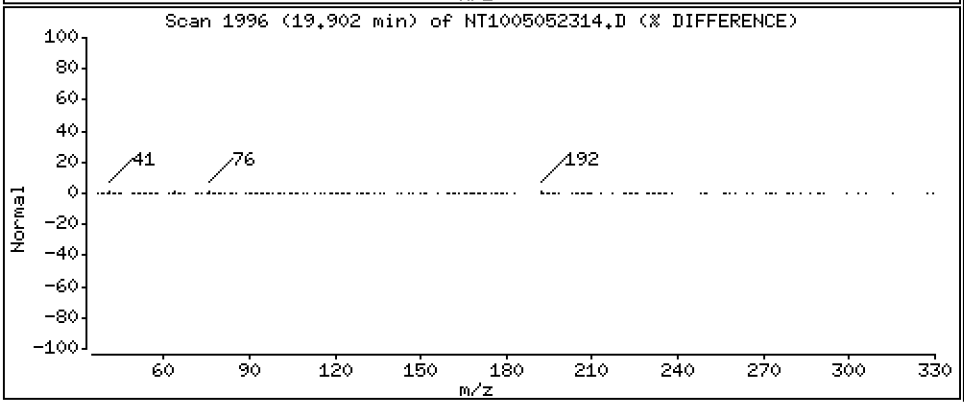
63 Di-n-butylphthalate

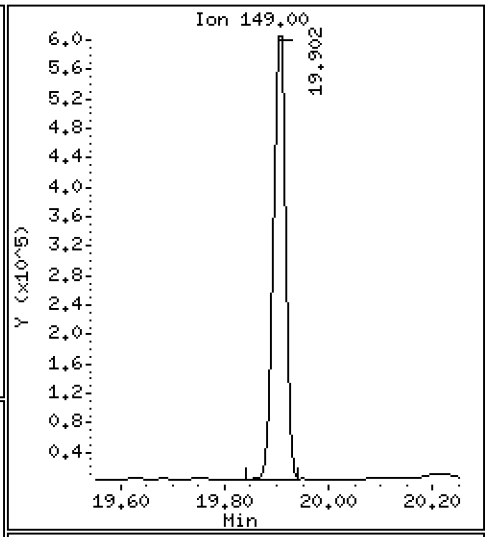
Concentration: 4.283 ug/mL

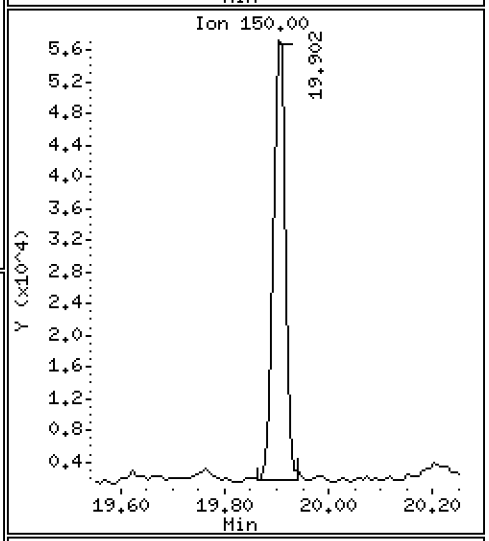


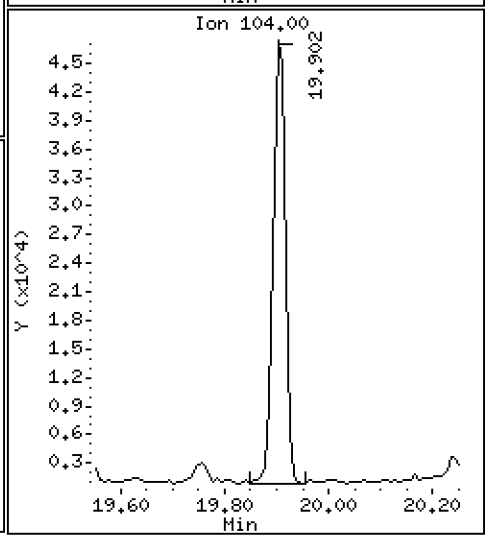












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

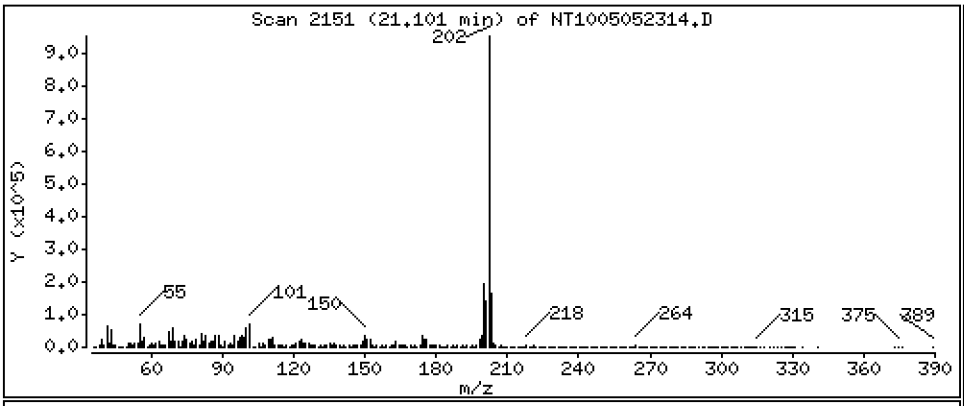
Operator: VTS

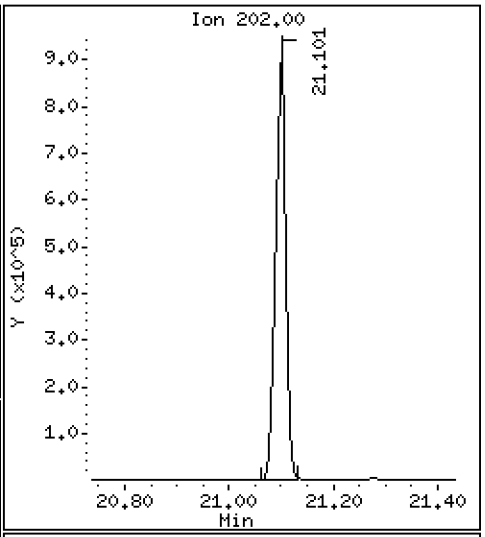
Column phase: ZB-5msi

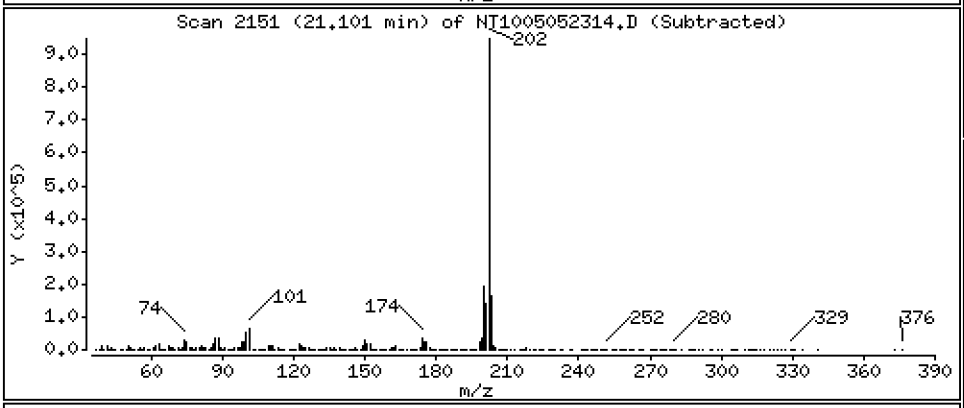
Column diameter: 0.25

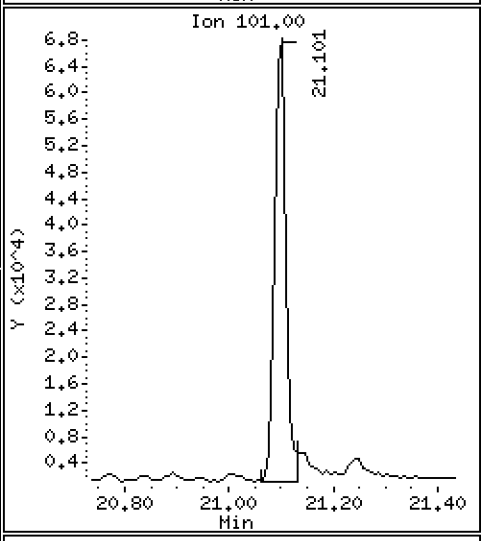
64 Fluoranthene

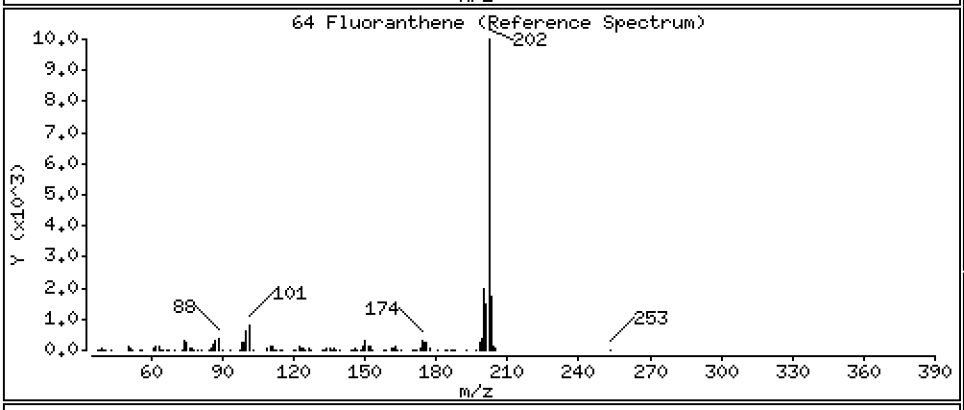
Concentration: 5.886 ug/mL

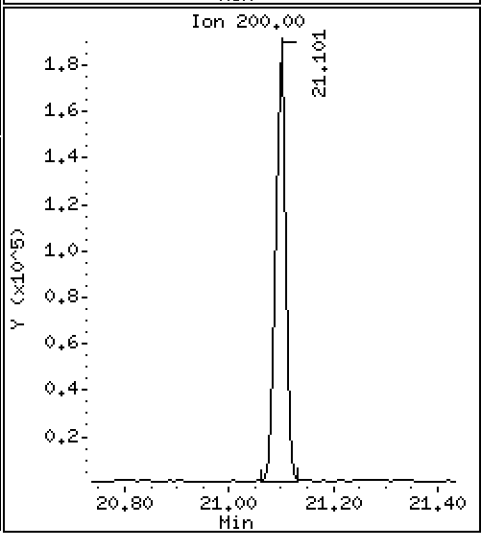


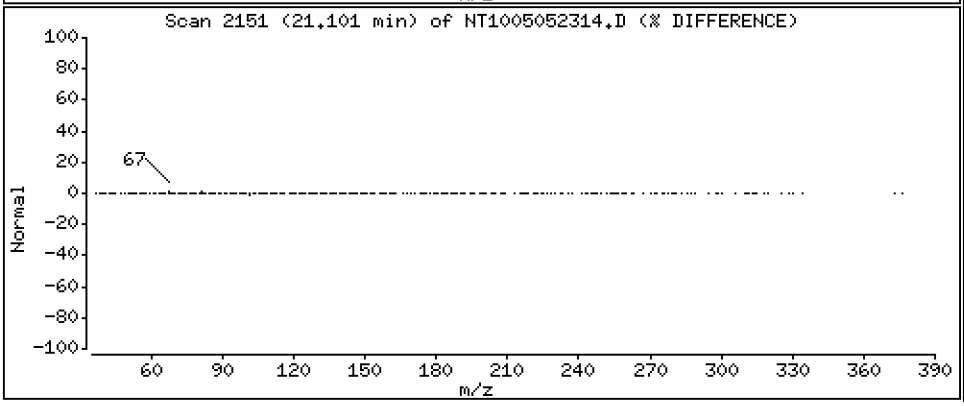












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

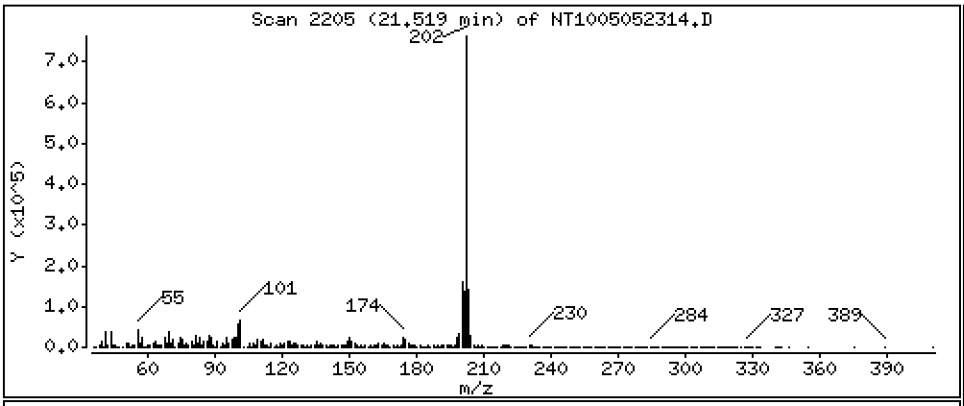
Operator: VTS

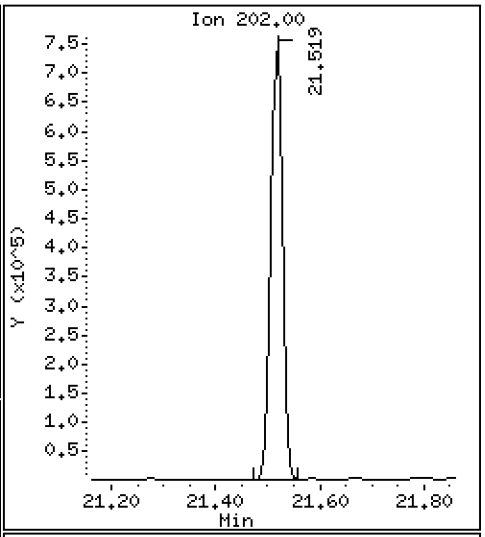
Column phase: ZB-5msi

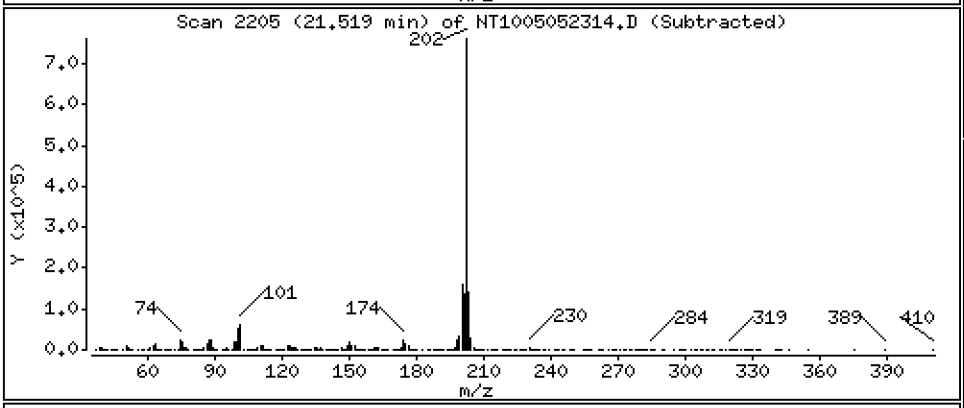
Column diameter: 0.25

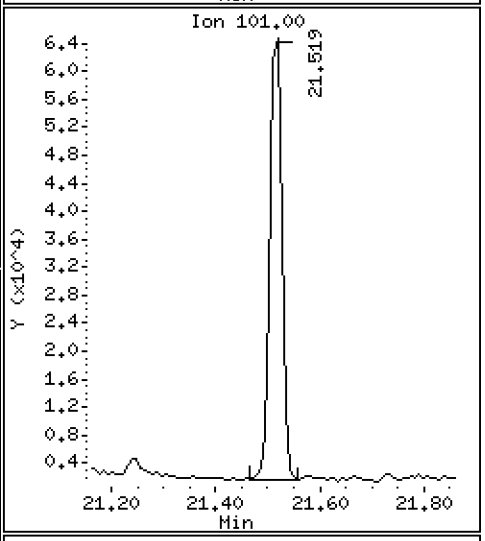
65 Pyrene

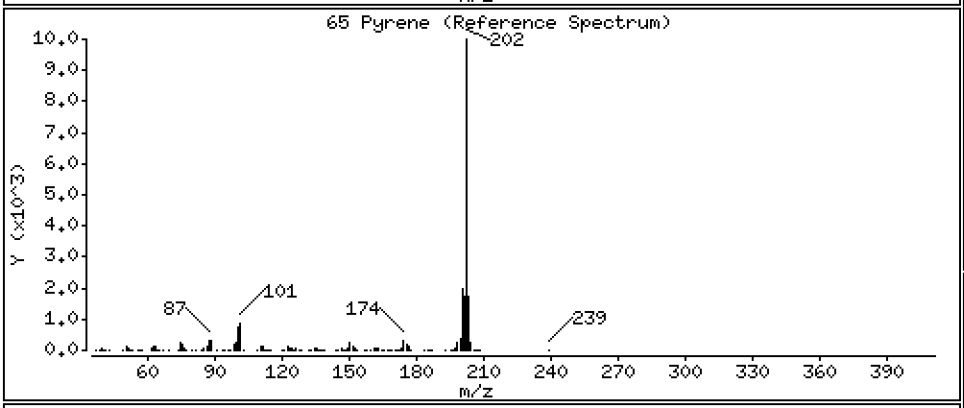
Concentration: 5.520 ug/mL

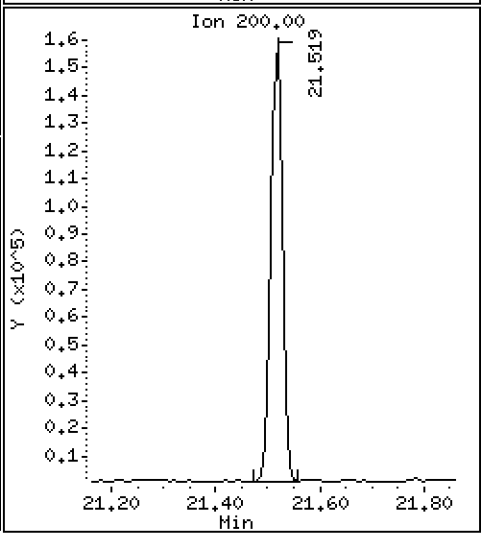


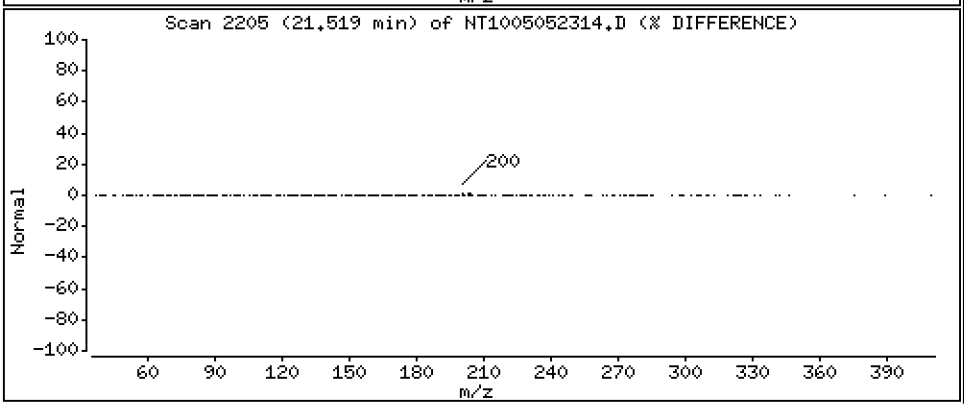












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

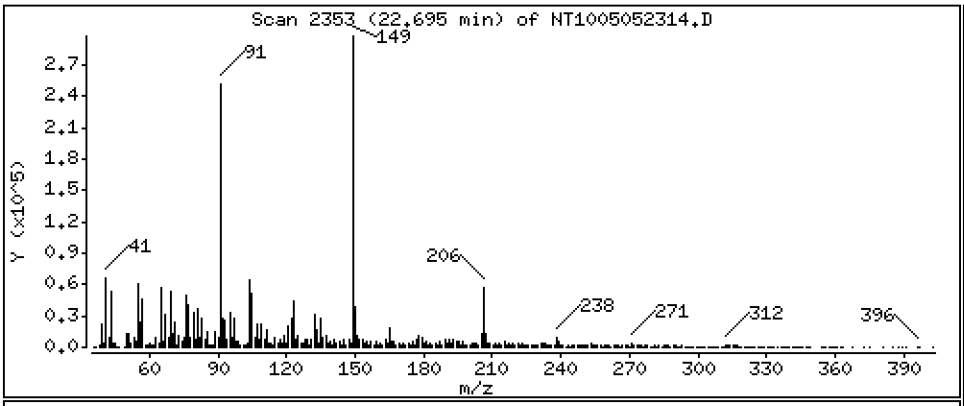
Operator: VTS

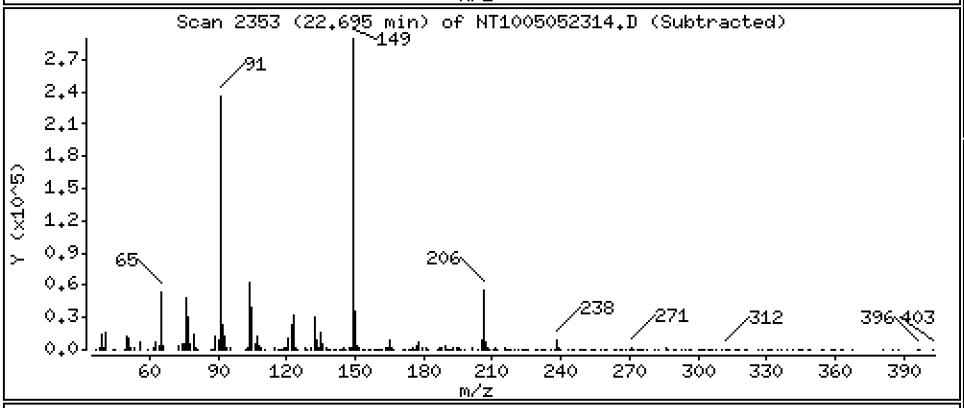
Column phase: ZB-5msi

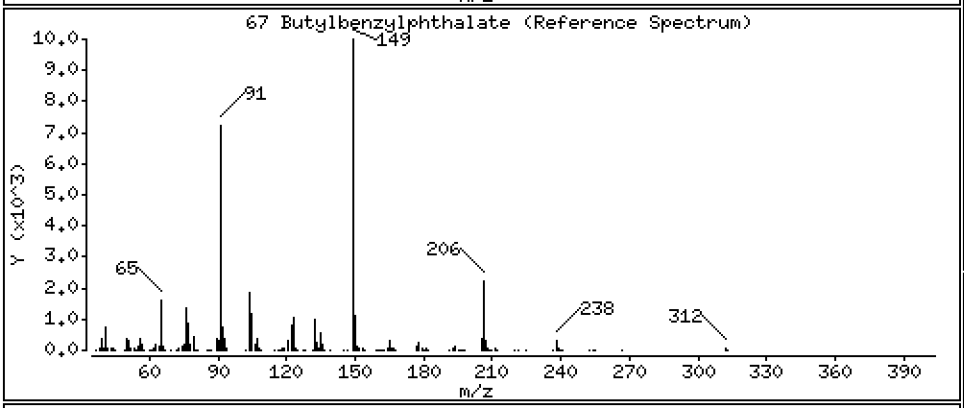
Column diameter: 0.25

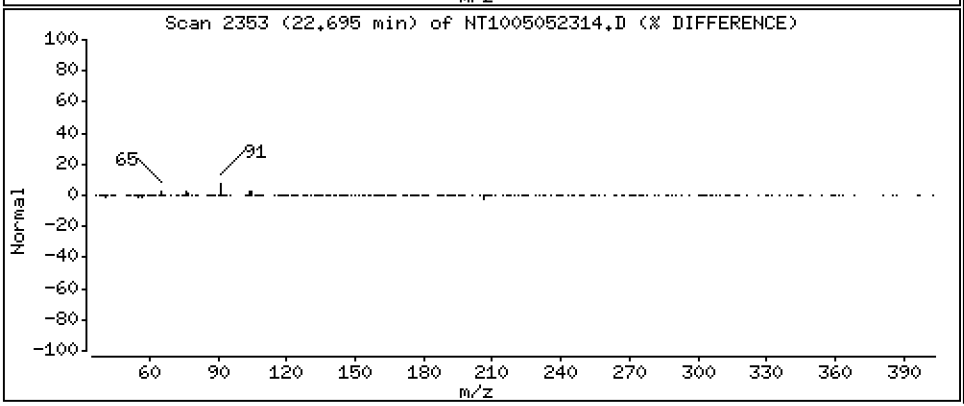
67 Butylbenzylphthalate

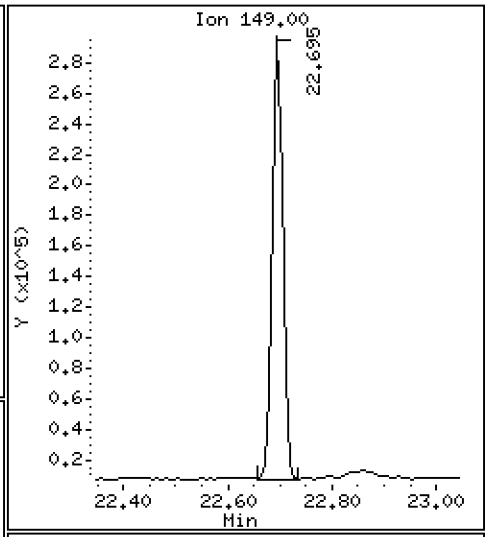
Concentration: 4.210 ug/mL

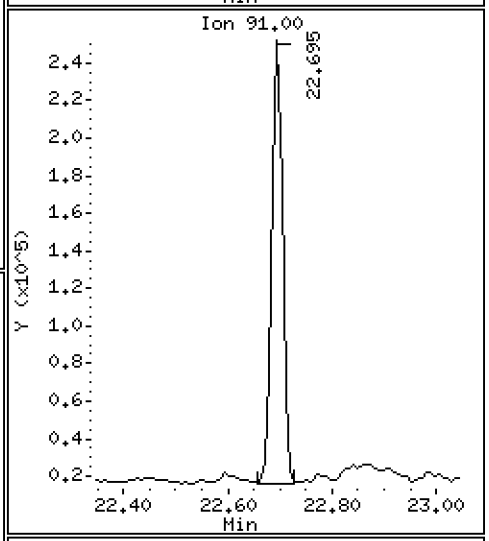


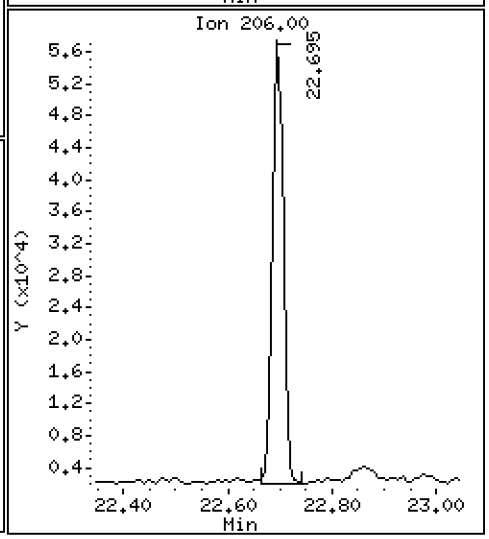












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

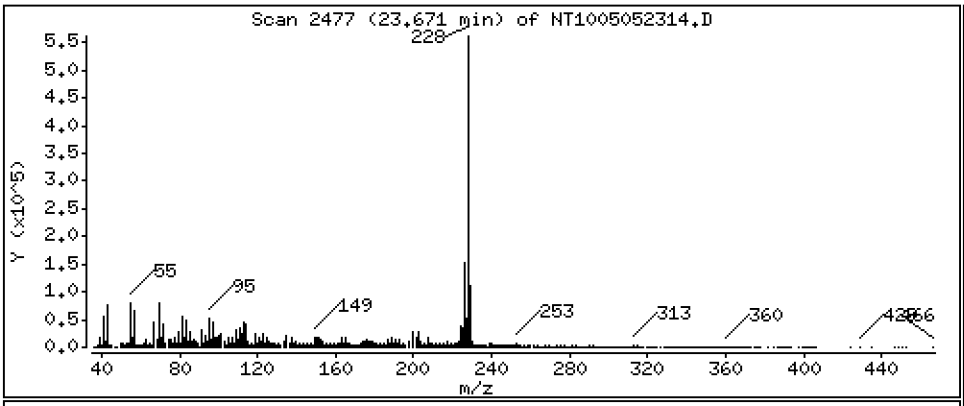
Operator: VTS

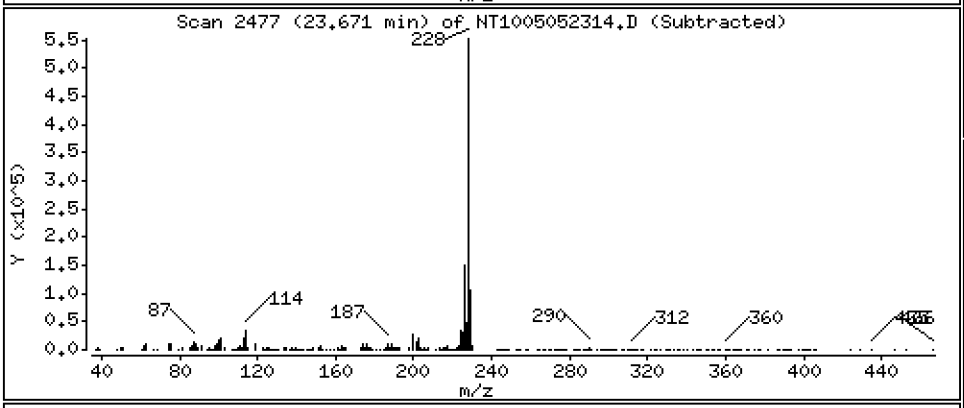
Column phase: ZB-5msi

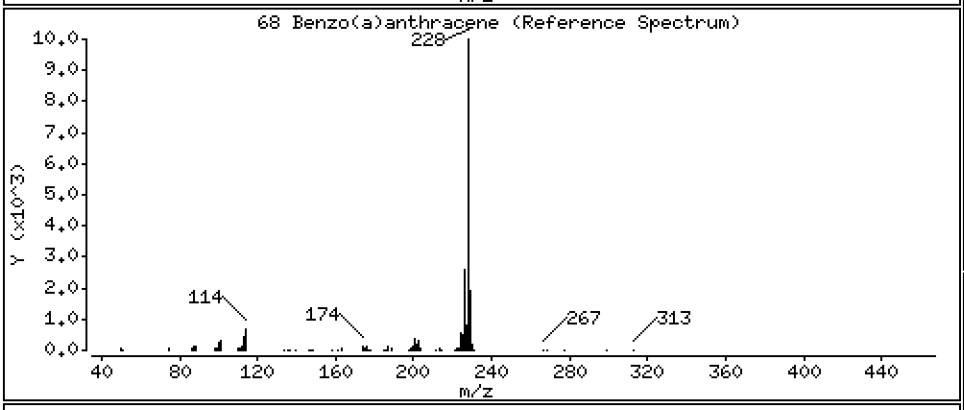
Column diameter: 0.25

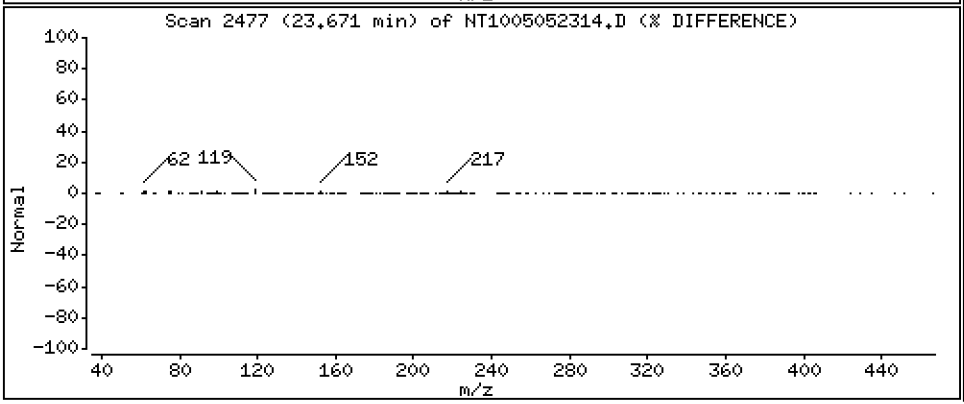
68 Benzo(a)anthracene

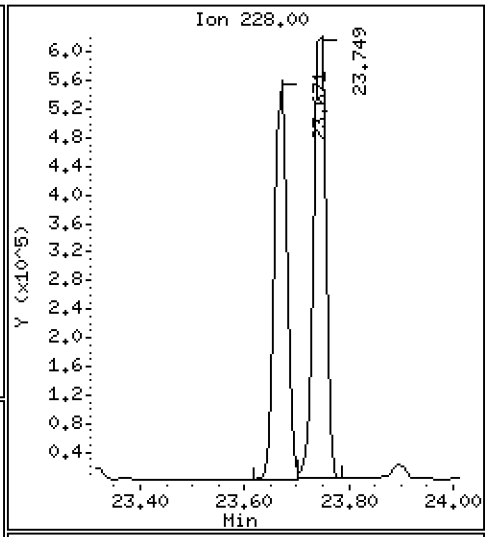
Concentration: 4.963 ug/mL

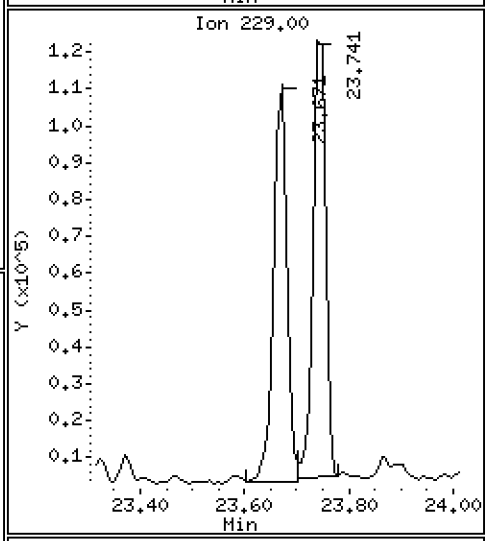


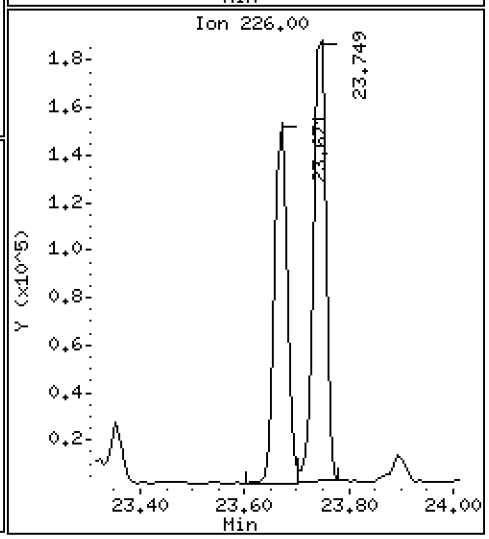












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

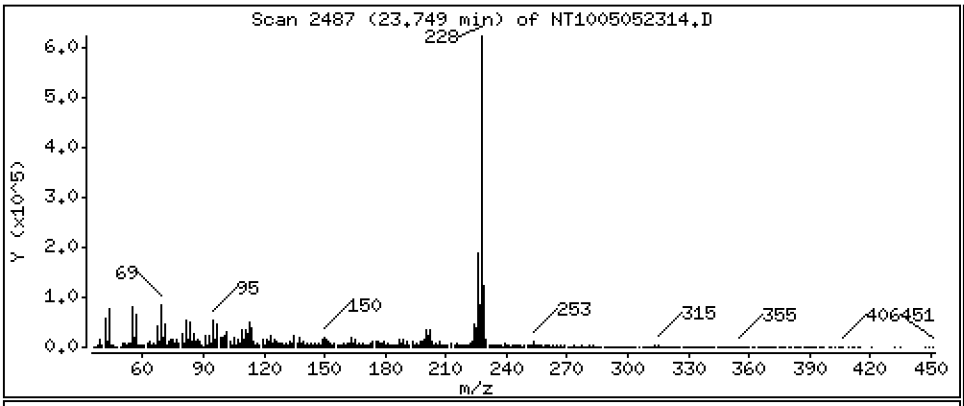
Operator: VTS

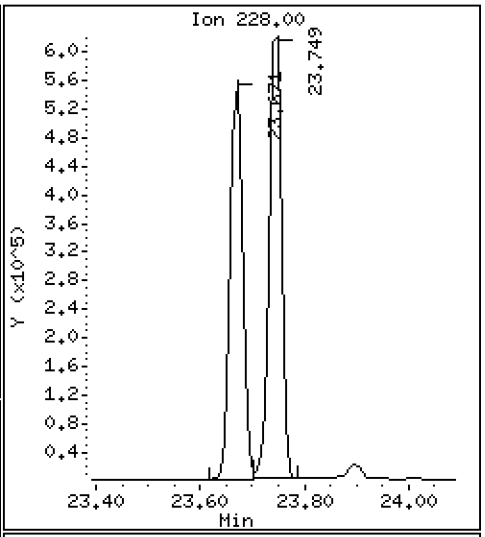
Column phase: ZB-5msi

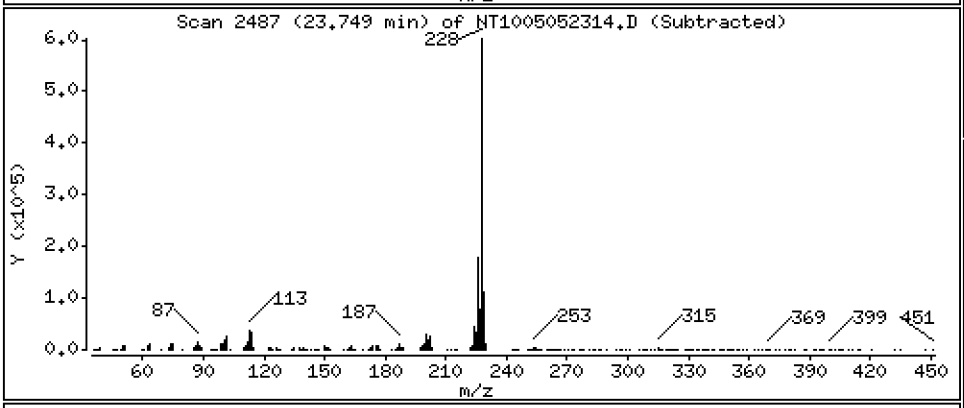
Column diameter: 0.25

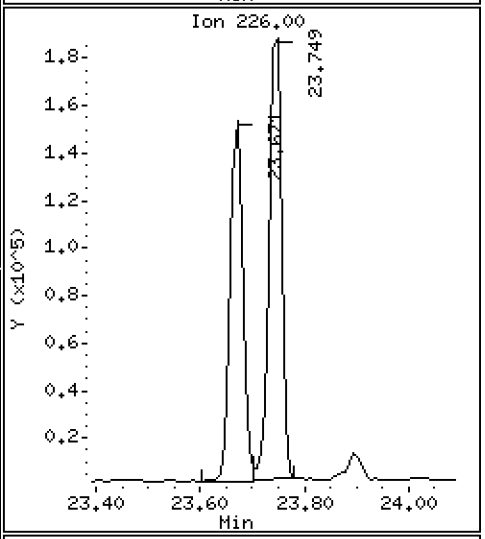
71 Chrysene

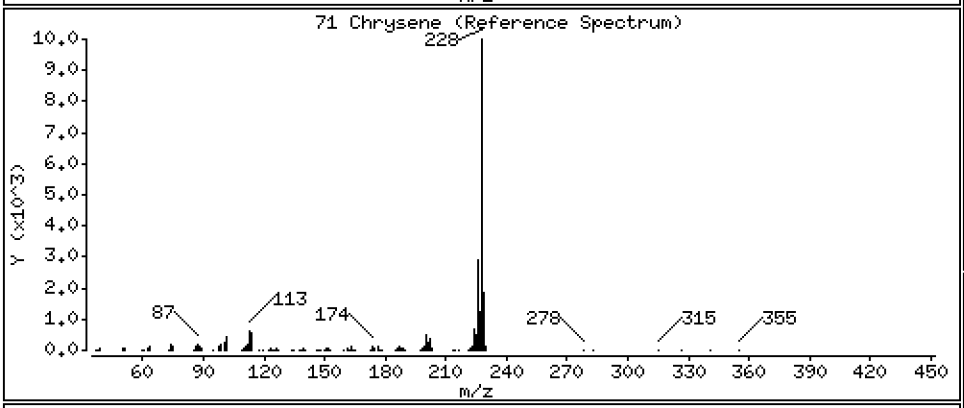
Concentration: 6.086 ug/mL

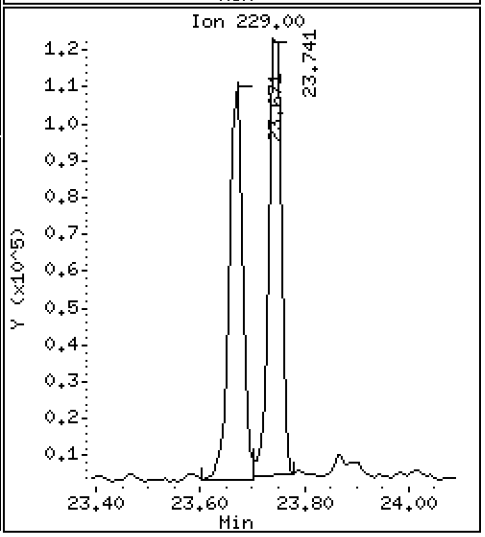


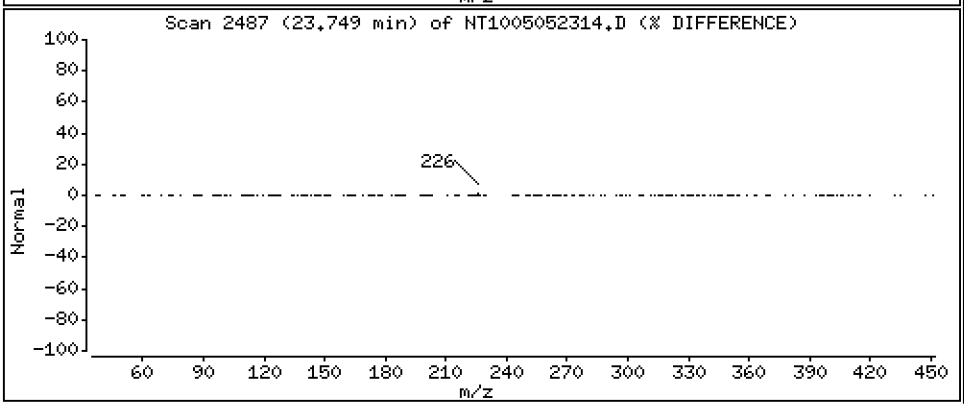












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

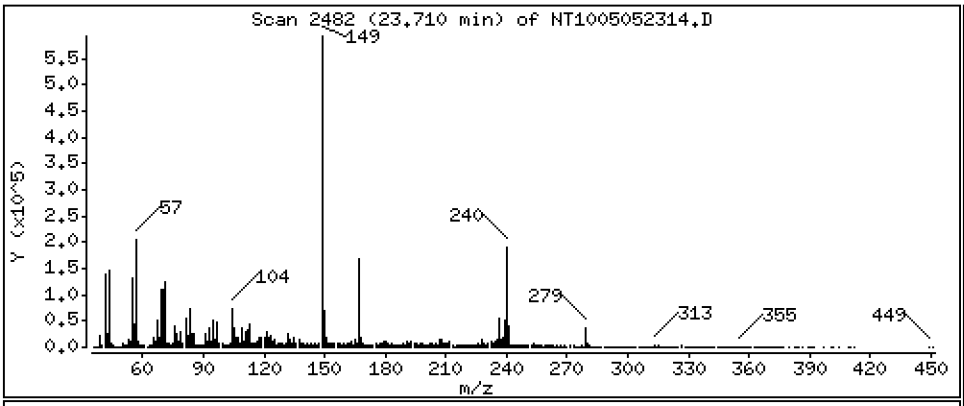
Operator: VTS

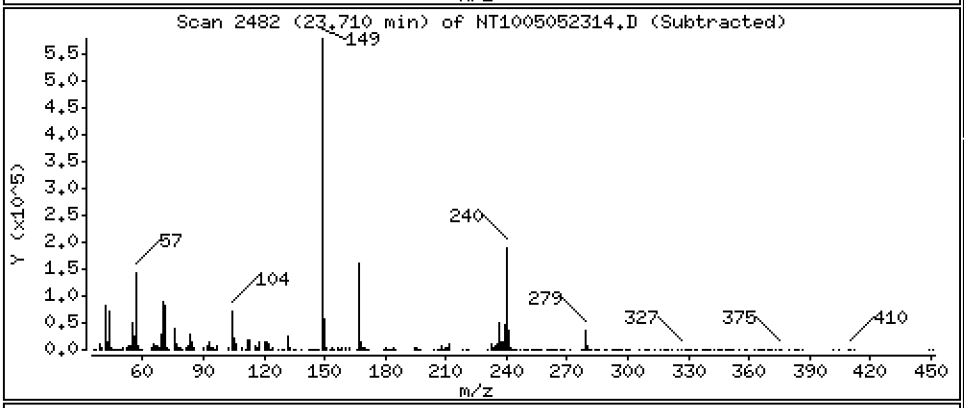
Column phase: ZB-5msi

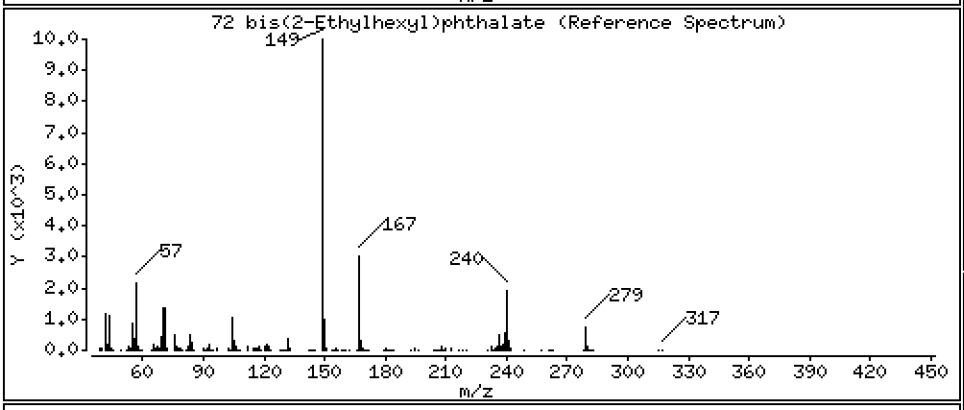
Column diameter: 0.25

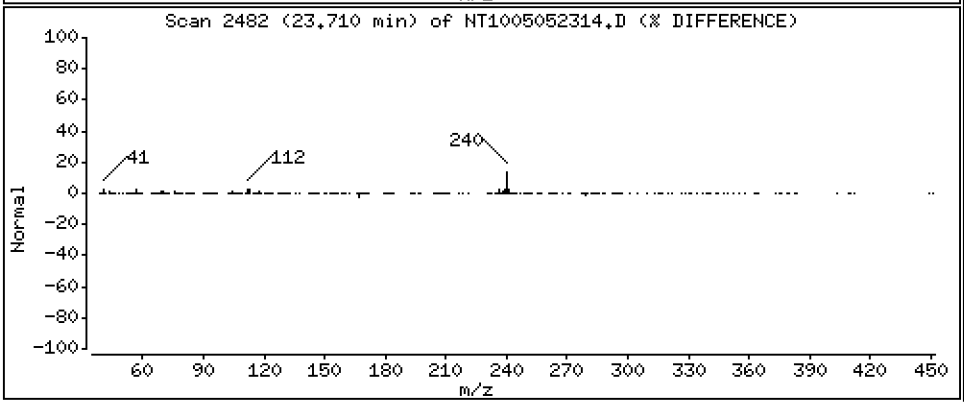
72 bis(2-Ethylhexyl)phthalate

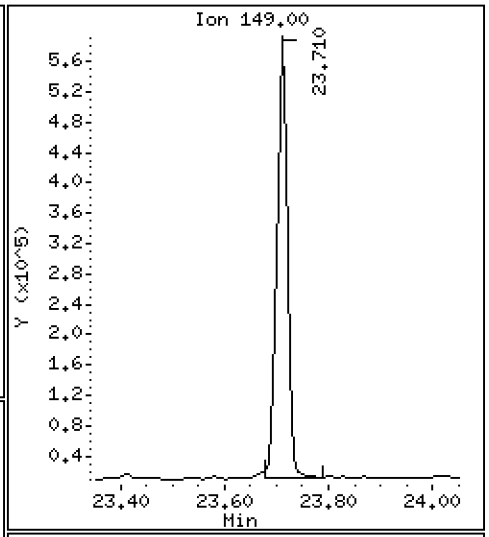
Concentration: 6.096 ug/mL

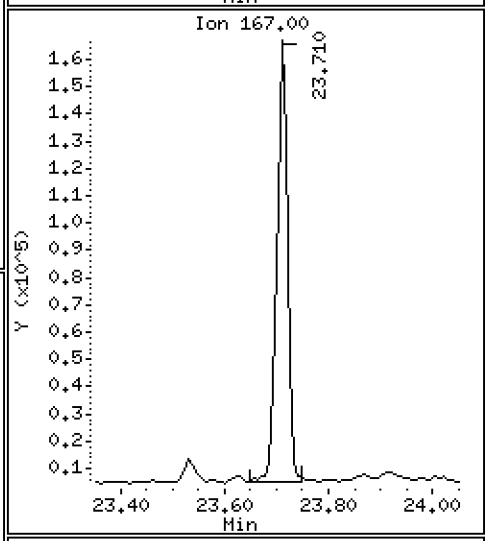


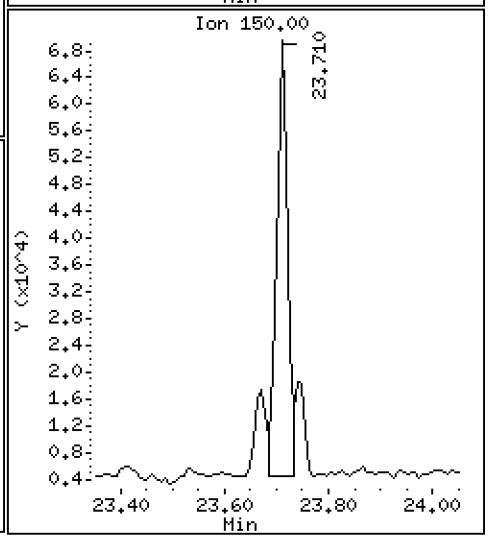












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

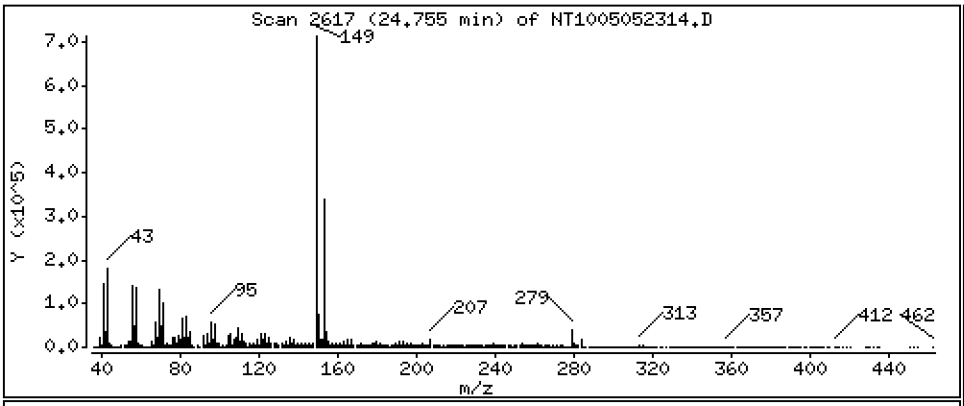
Operator: VTS

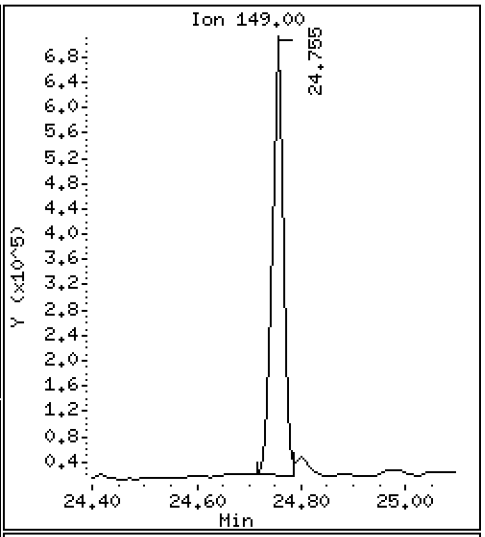
Column phase: ZB-5msi

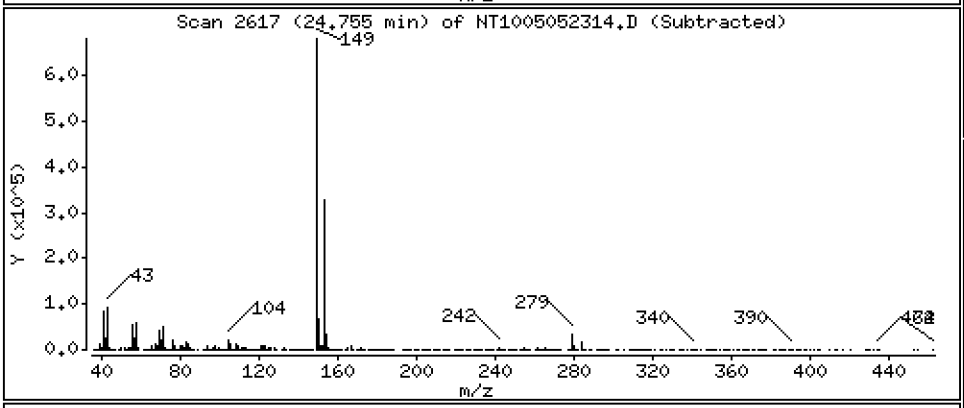
Column diameter: 0.25

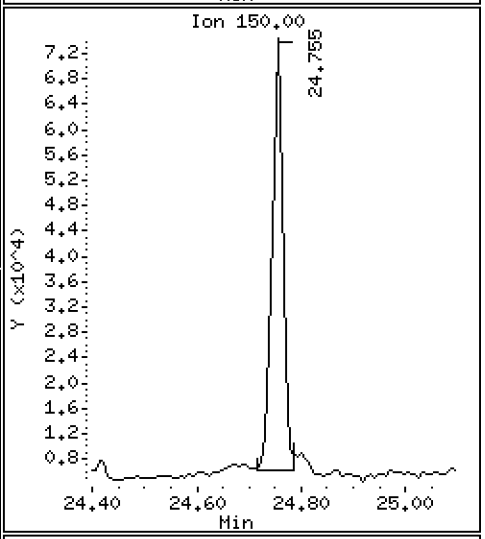
73 Di-n-octylphthalate

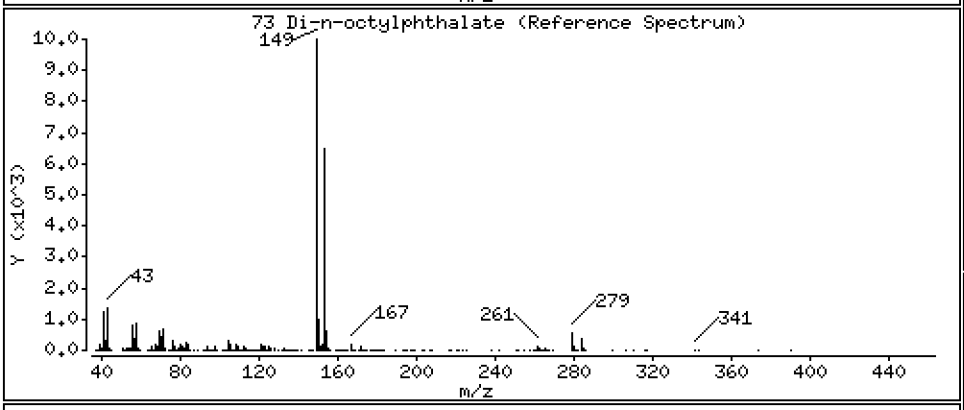
Concentration: 4.176 ug/mL

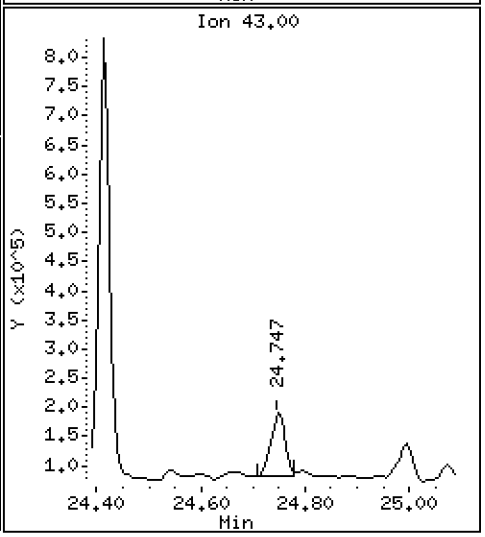


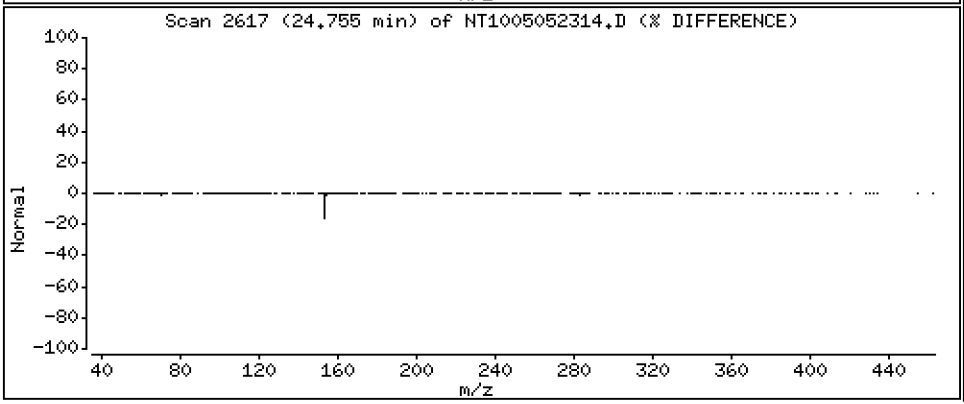












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

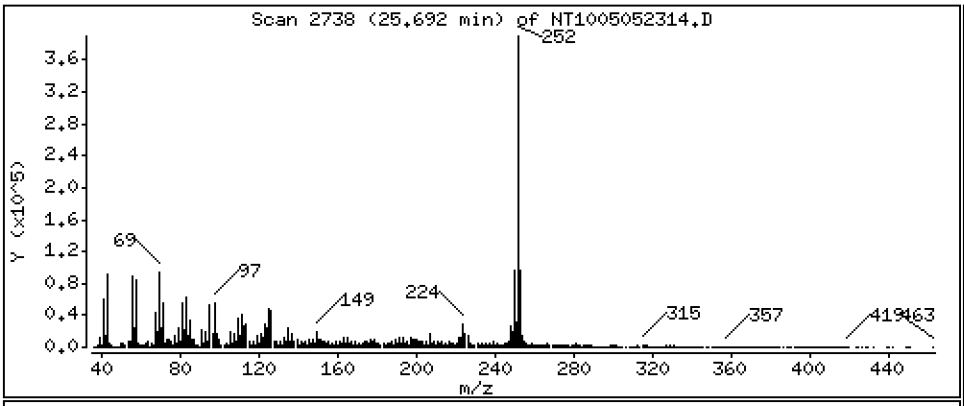
Operator: VTS

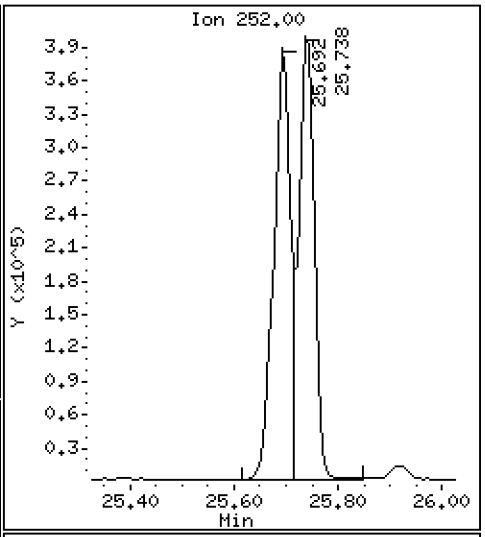
Column phase: ZB-5msi

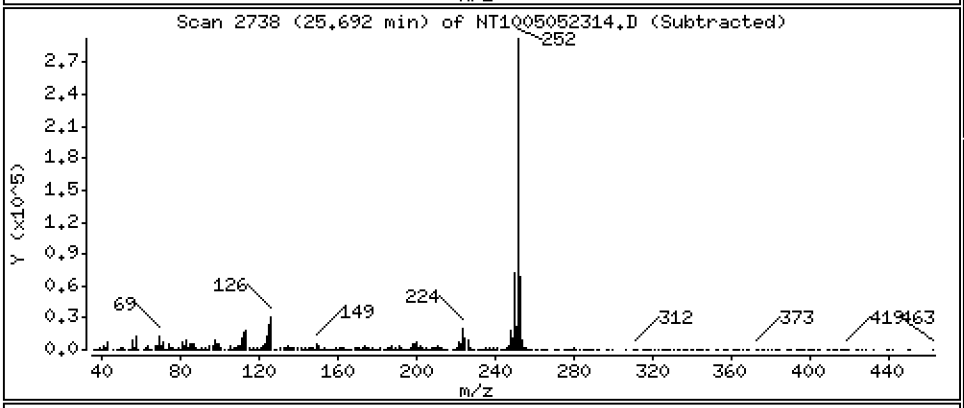
Column diameter: 0.25

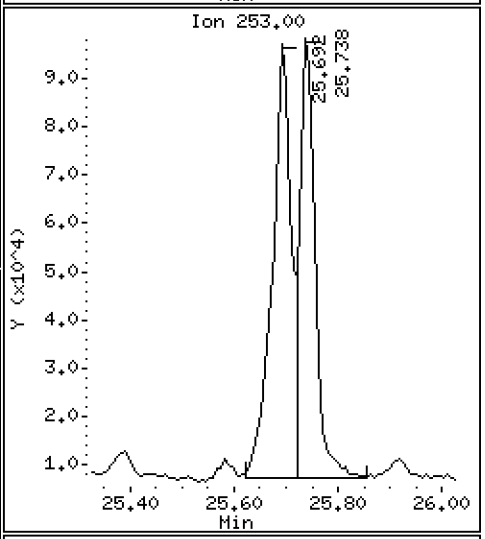
74 Benzo(b)fluoranthene

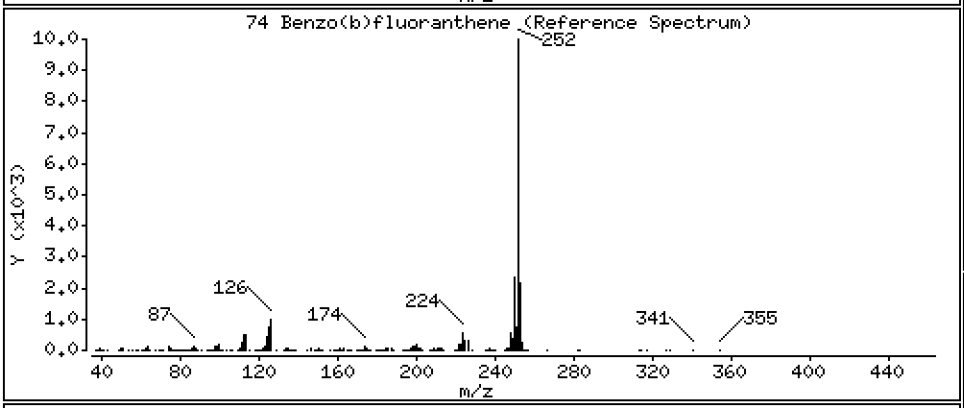
Concentration: 5.677 ug/mL

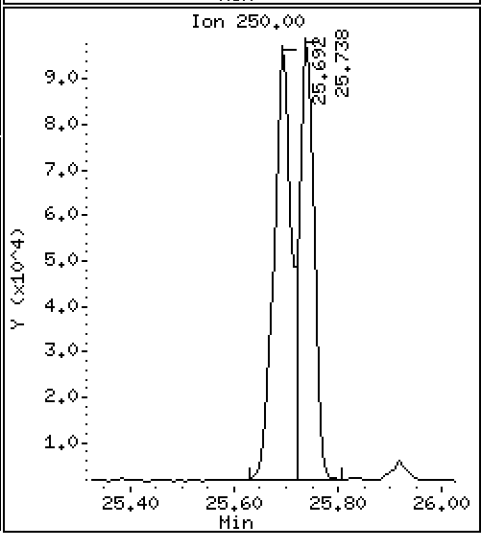


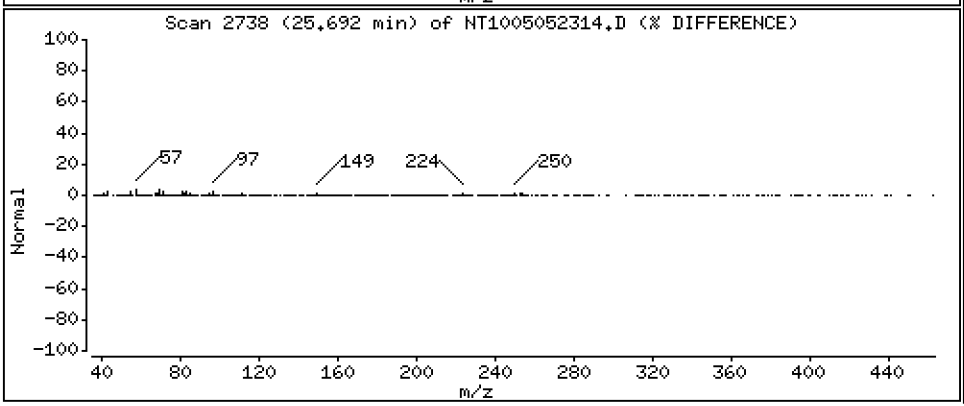












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

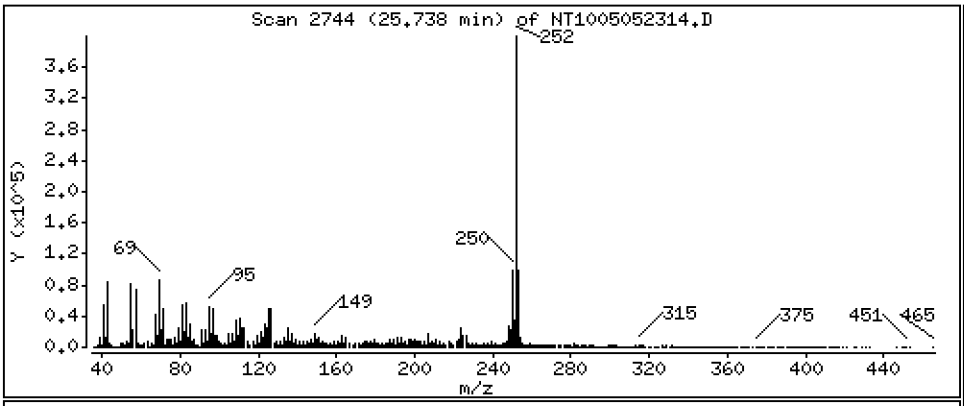
Operator: VTS

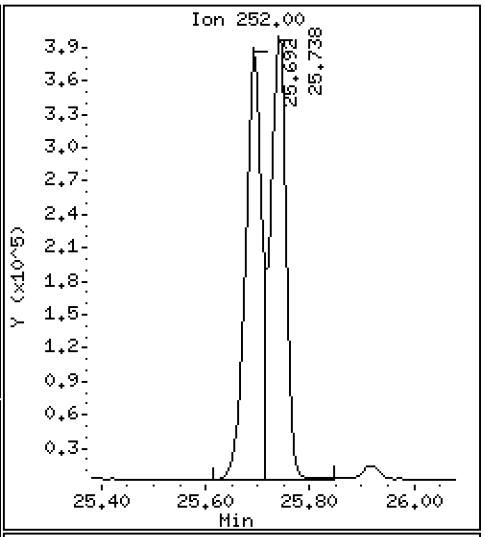
Column phase: ZB-5msi

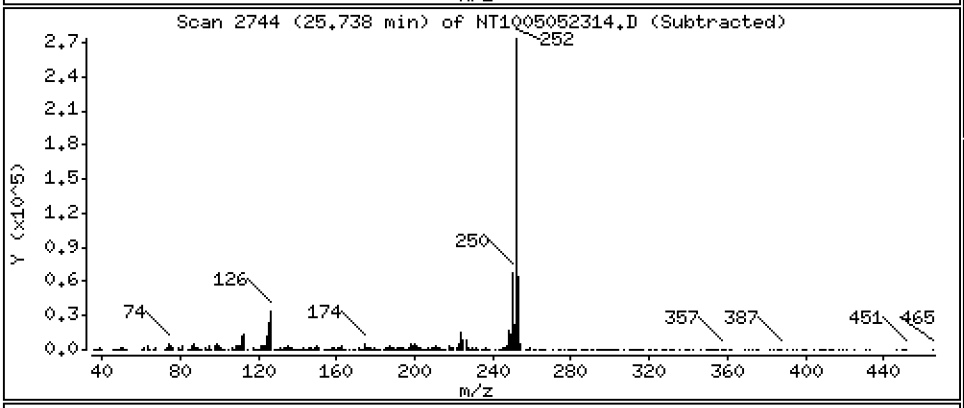
Column diameter: 0.25

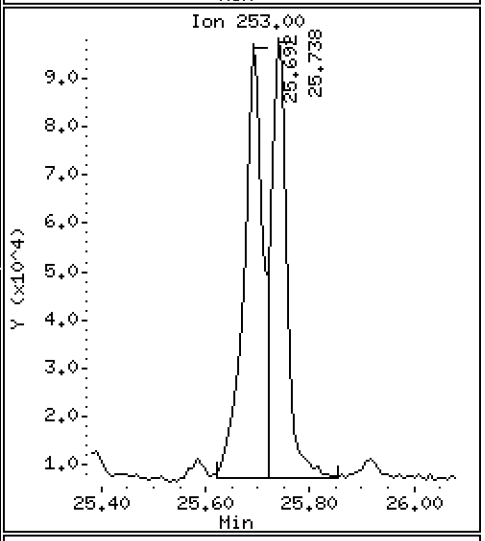
75 Benzo(k)fluoranthene

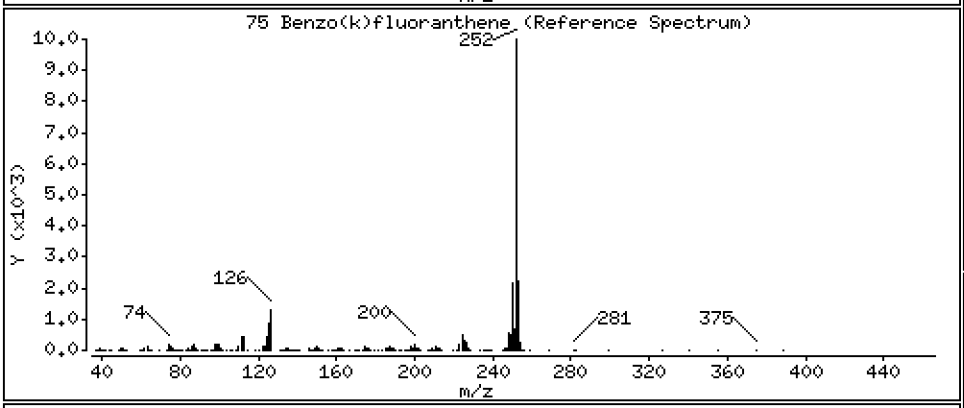
Concentration: 5.495 ug/mL

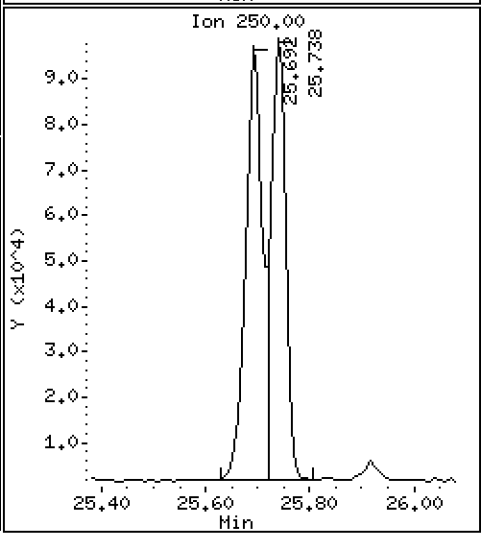


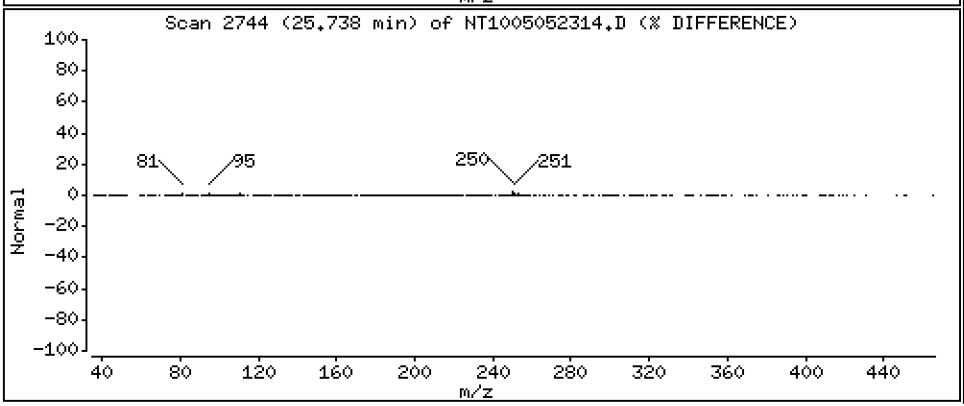












Date : 05-MAY-2023 19:11

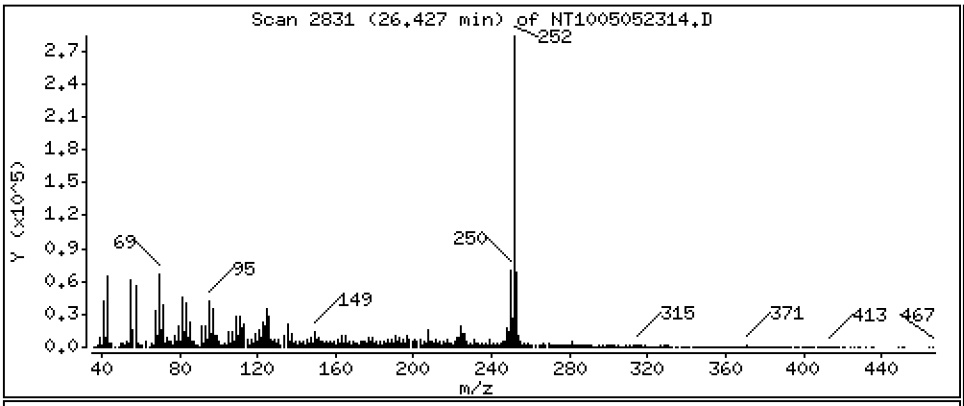
Client ID: Instrument: nt10.i

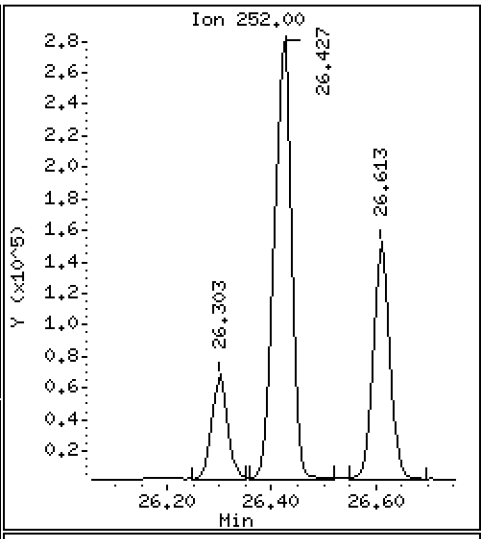
Sample Info: BLD0329-MSD1

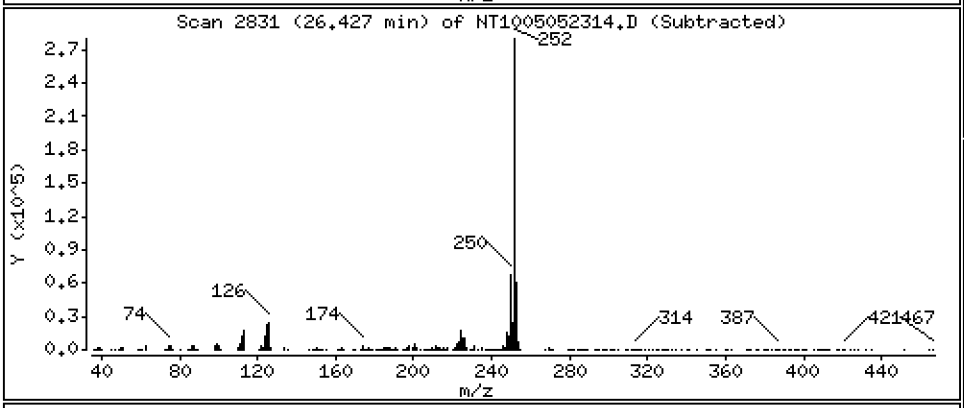
Operator: VTS

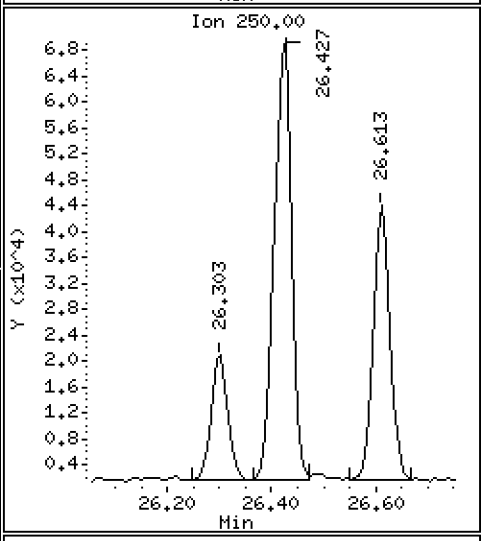
Column phase: ZB-5msi Column diameter: 0.25

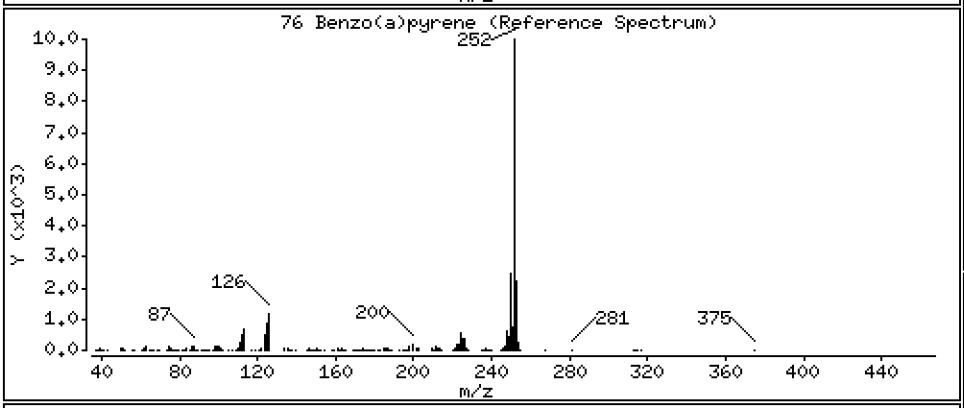
76 Benzo(a)pyrene Concentration: 4.933 ug/mL

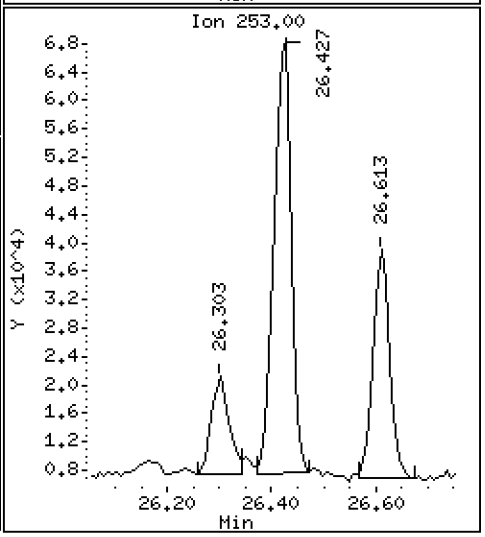


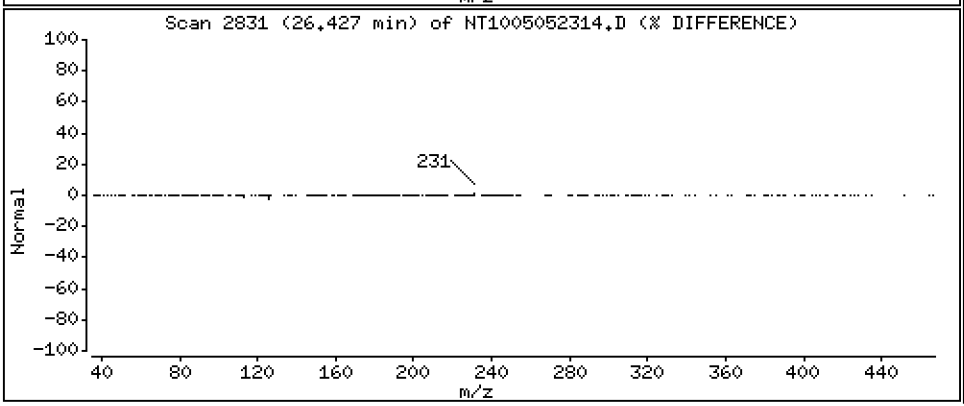












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

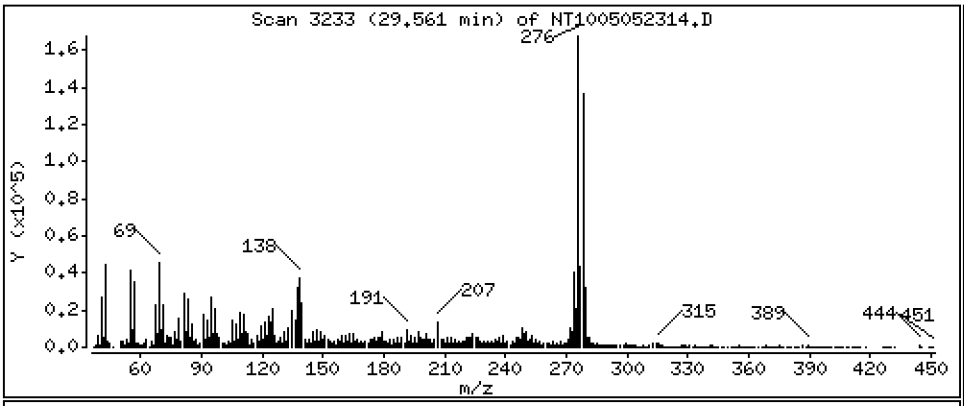
Operator: VTS

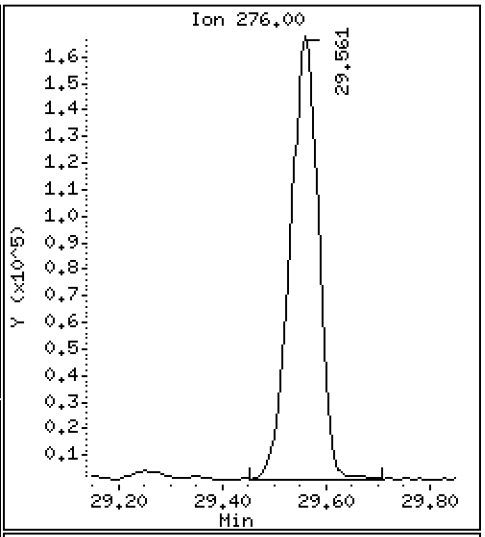
Column phase: ZB-5msi

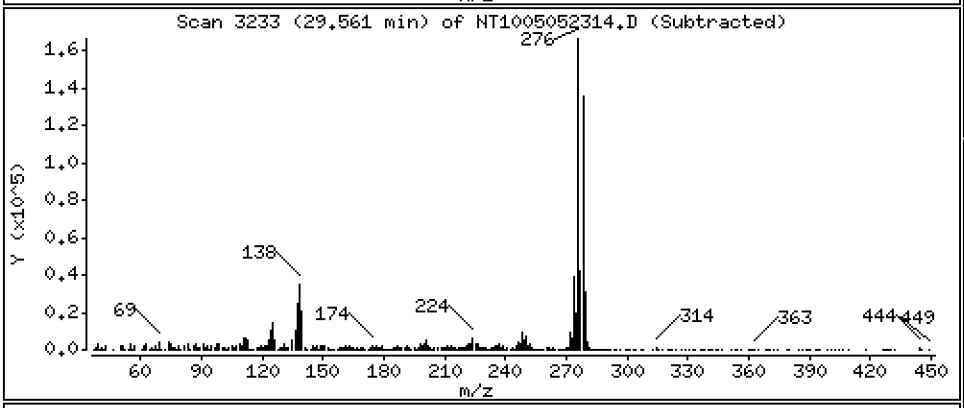
Column diameter: 0.25

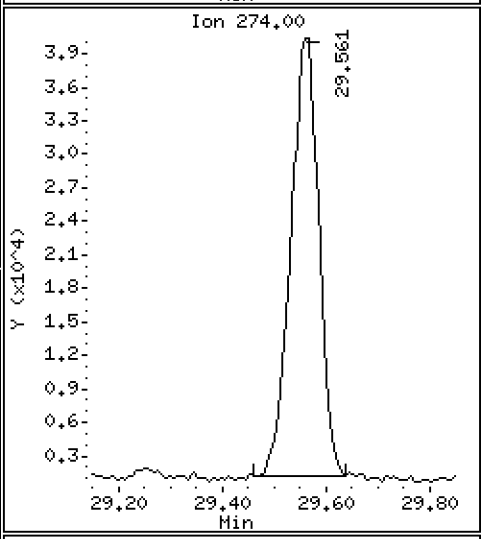
78 Indeno(1,2,3-cd)pyrene

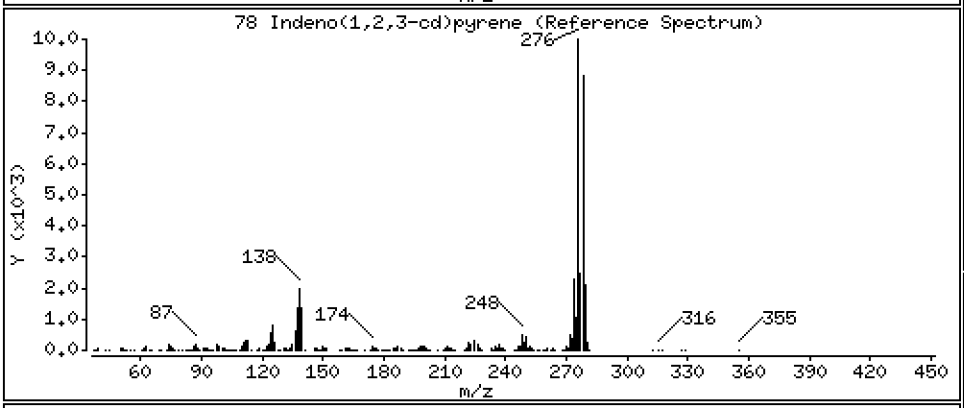
Concentration: 4.081 ug/mL

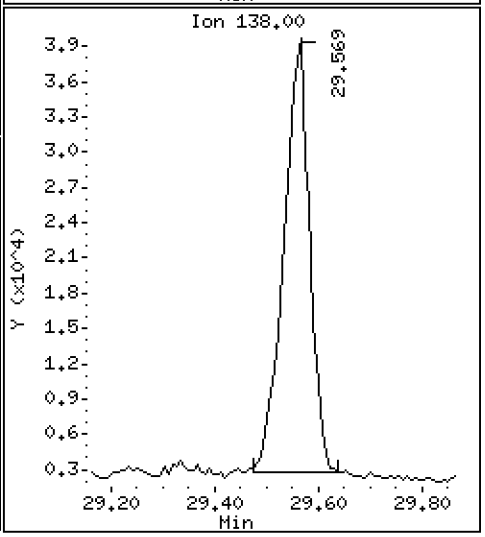


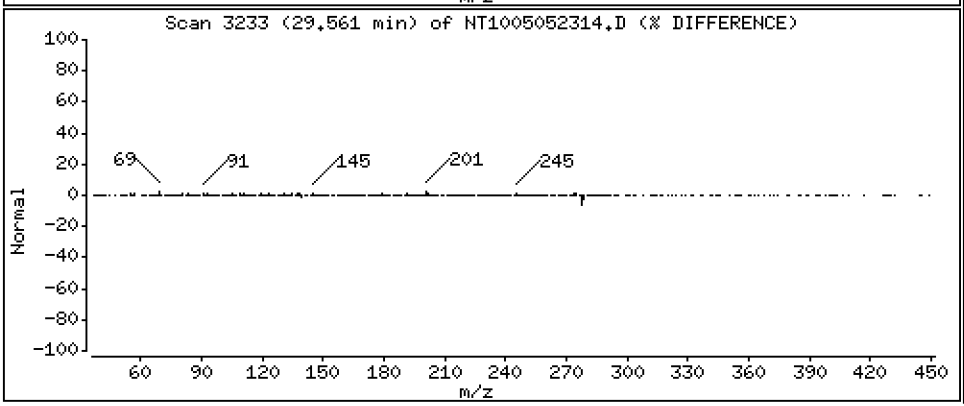












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

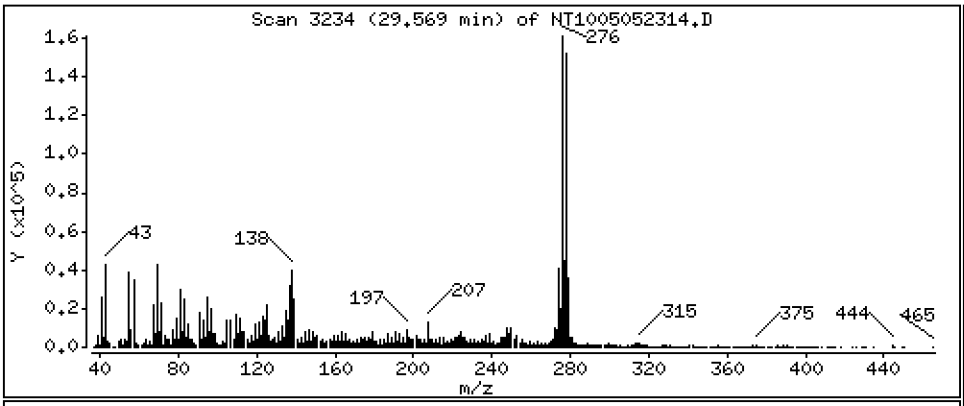
Operator: VTS

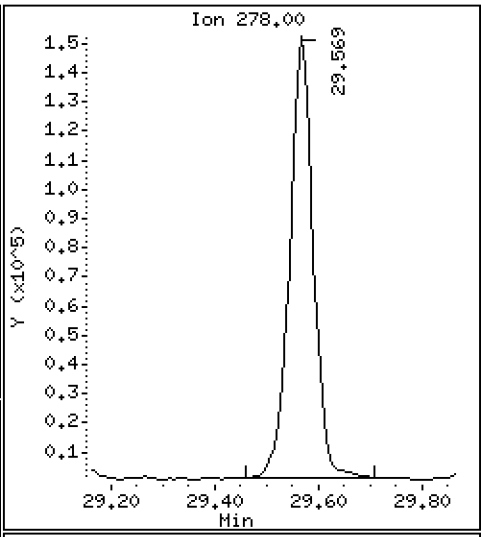
Column phase: ZB-5msi

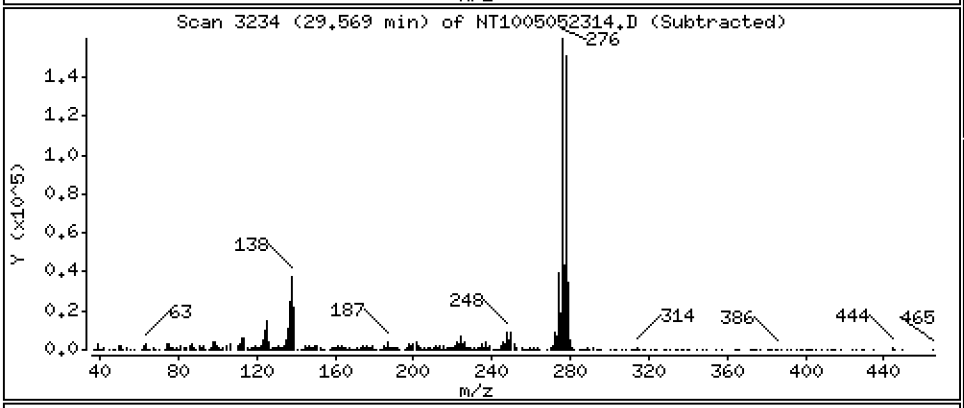
Column diameter: 0.25

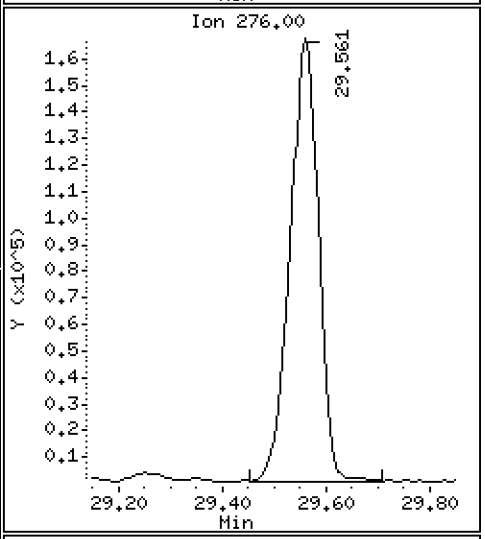
79 Dibenzo(a,h)anthracene

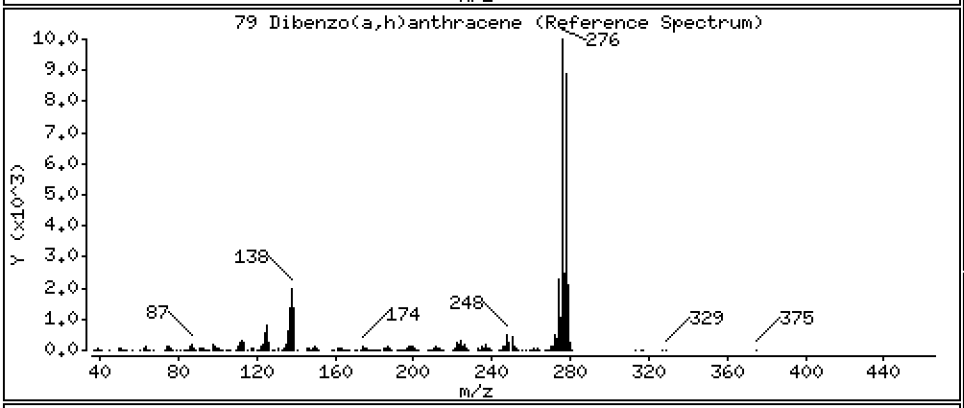
Concentration: 3.725 ug/mL

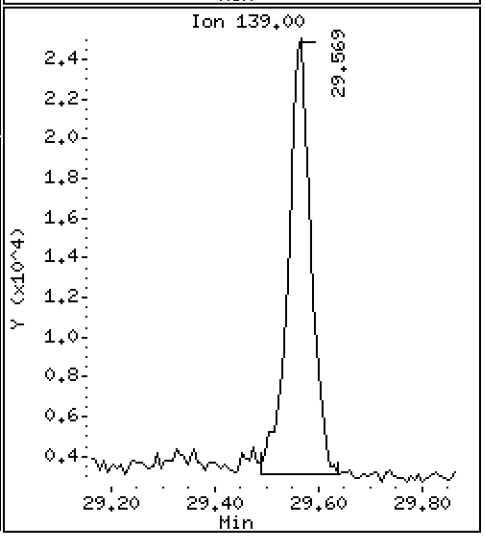


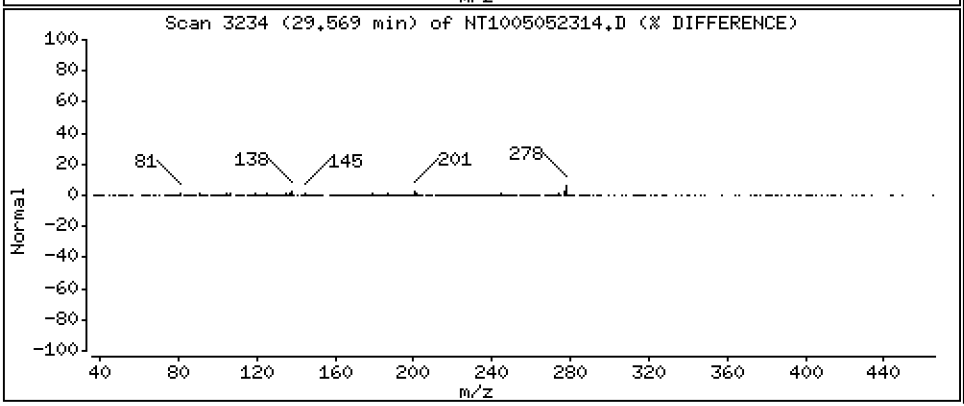












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

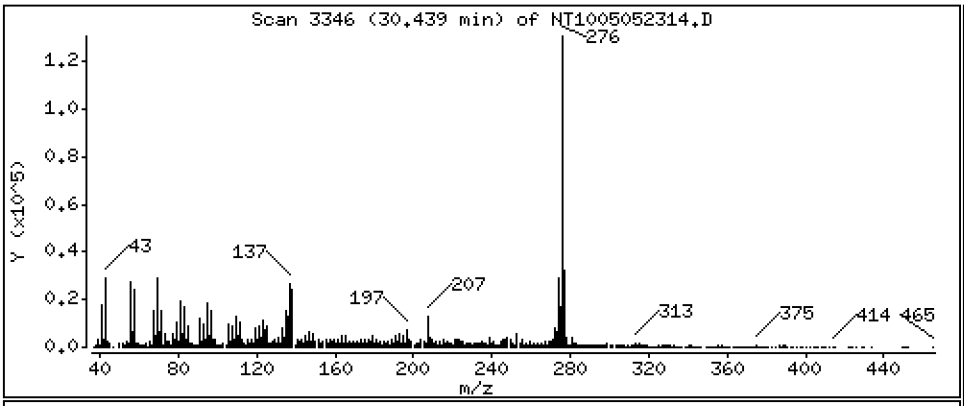
Operator: VTS

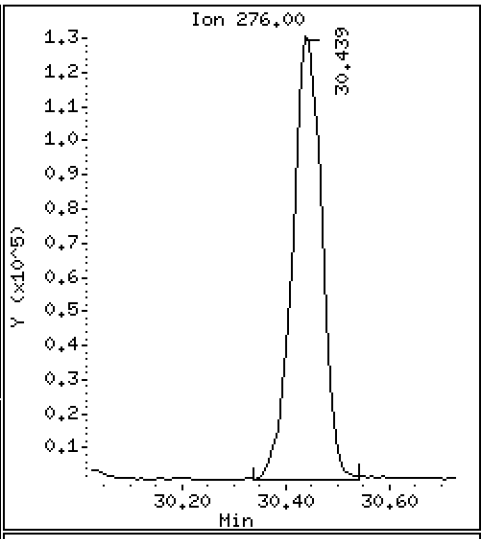
Column phase: ZB-5msi

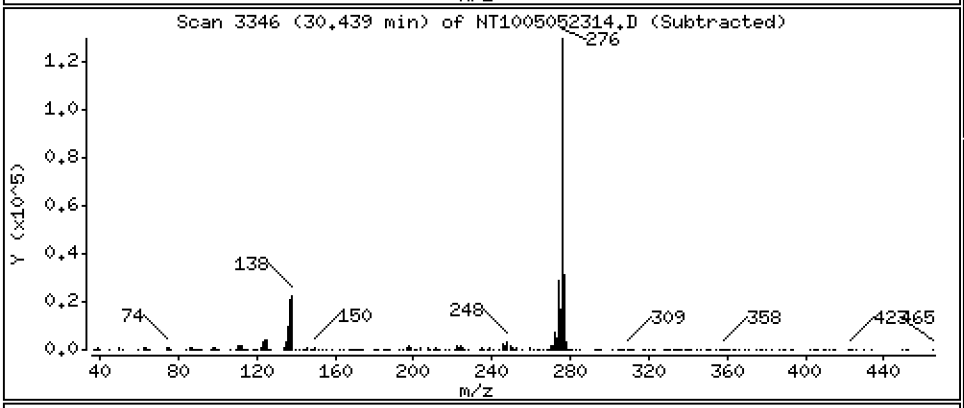
Column diameter: 0.25

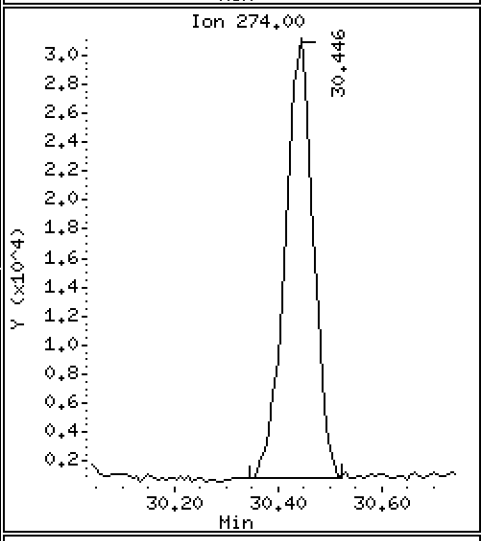
80 Benzo(g,h,i)perylene

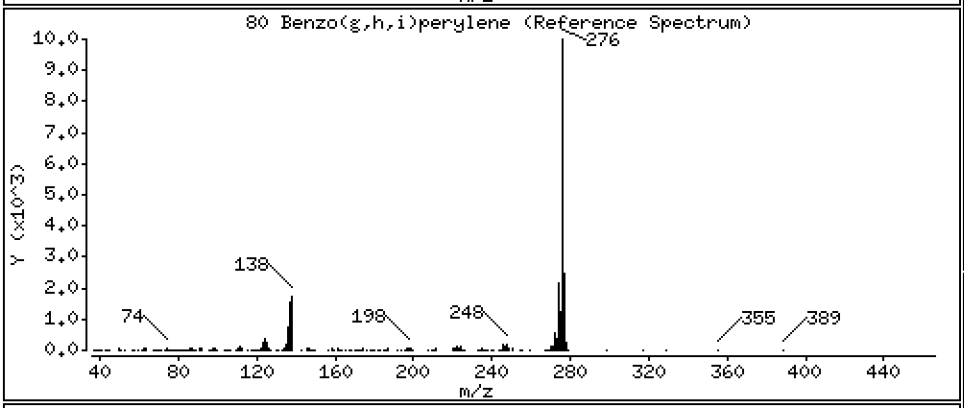
Concentration: 4.104 ug/mL

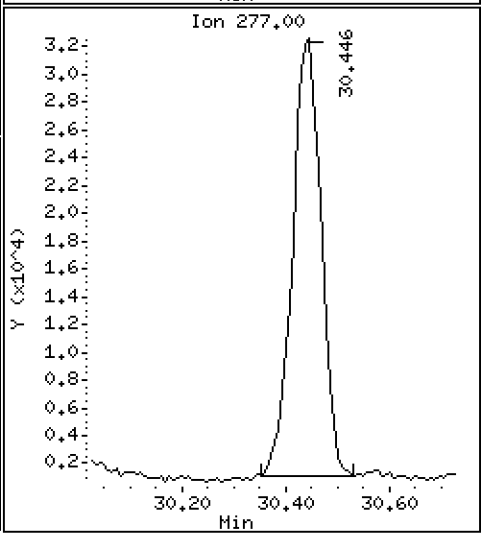


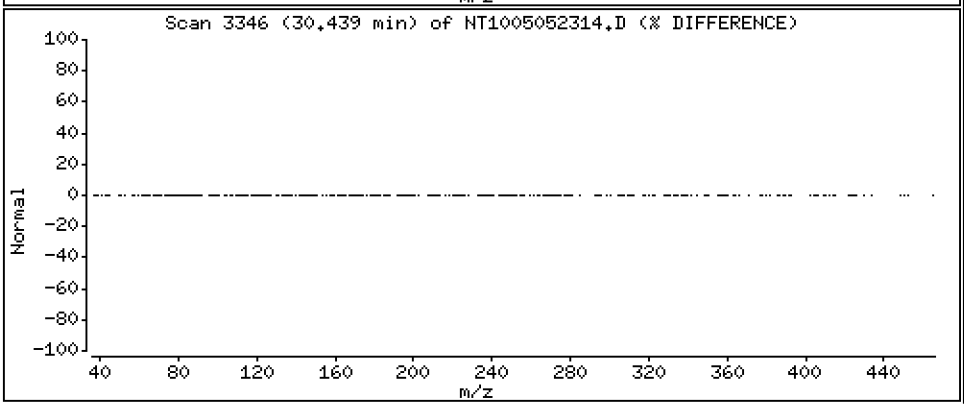












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

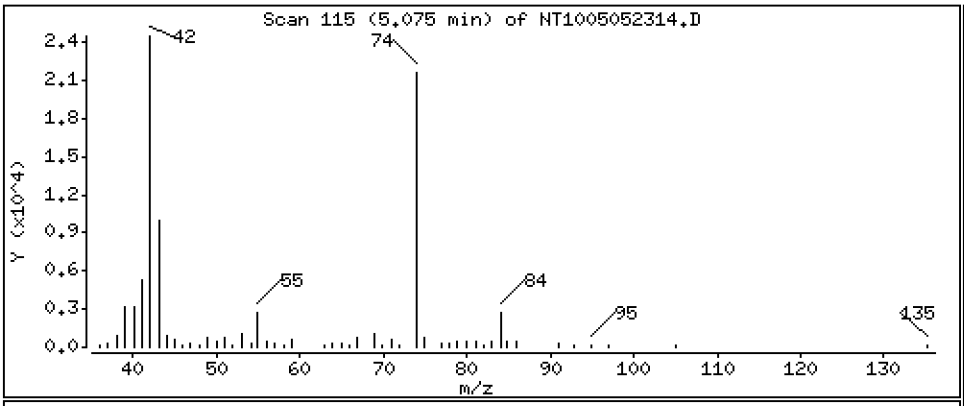
Operator: VTS

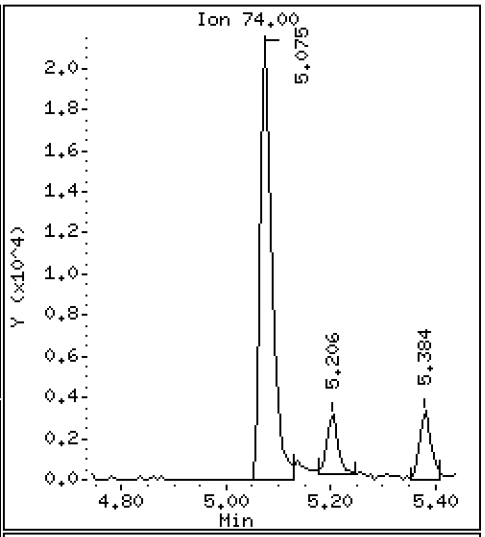
Column phase: ZB-5msi

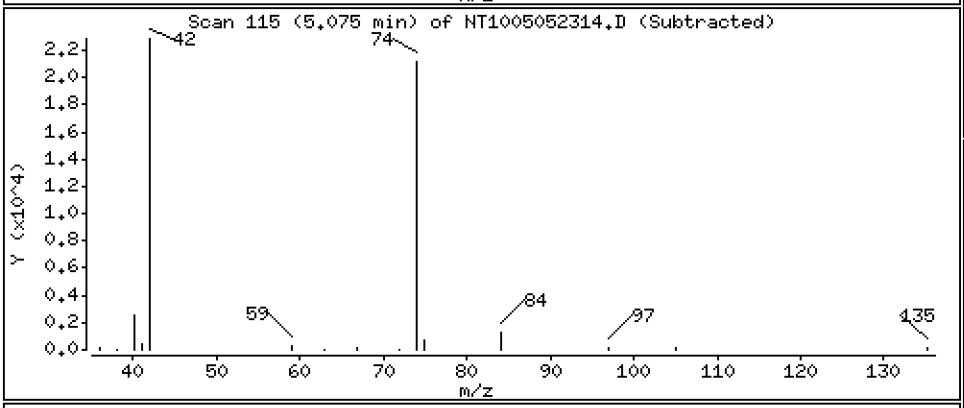
Column diameter: 0.25

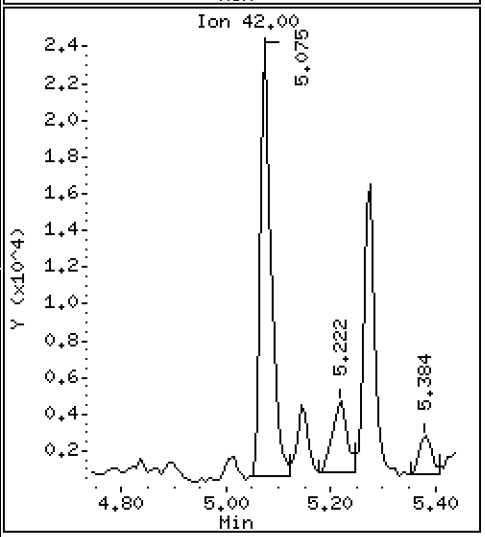
90 N-Nitrosodimethylamine

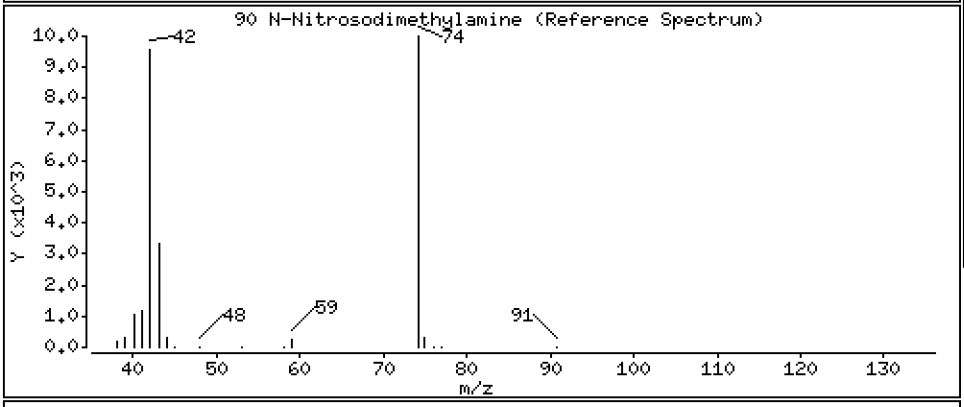
Concentration: 1.194 ug/mL

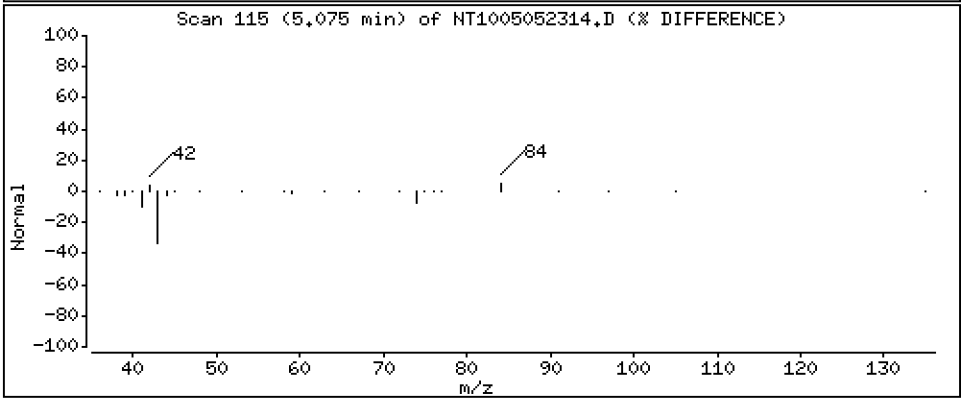












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

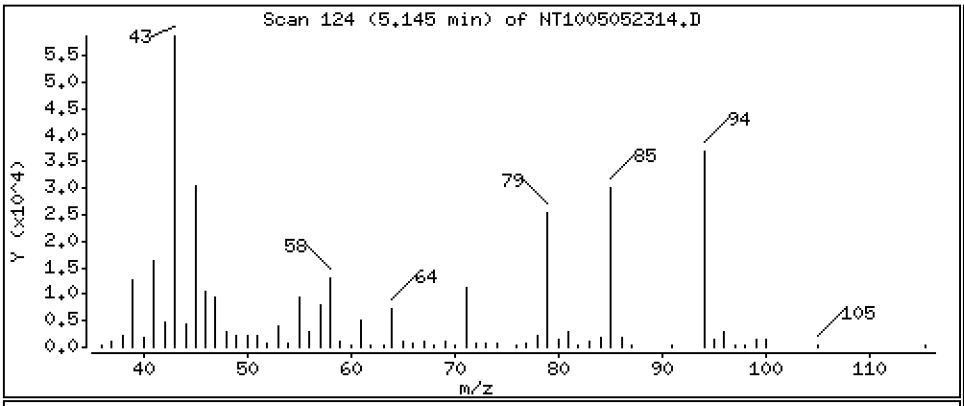
Operator: VTS

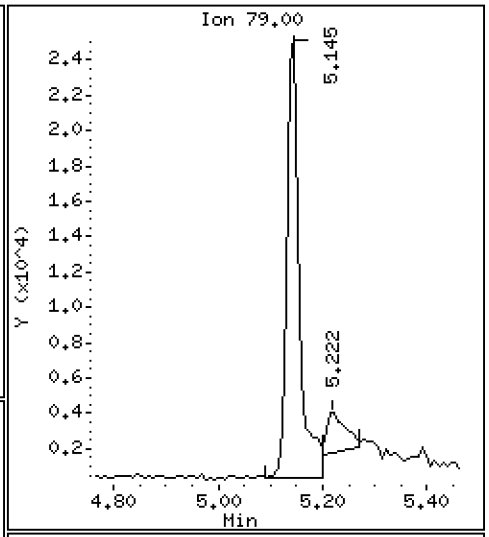
Column phase: ZB-5msi

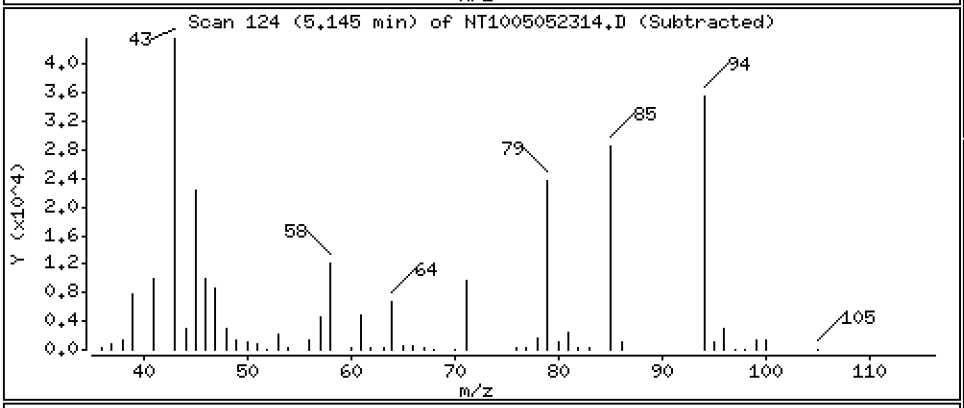
Column diameter: 0.25

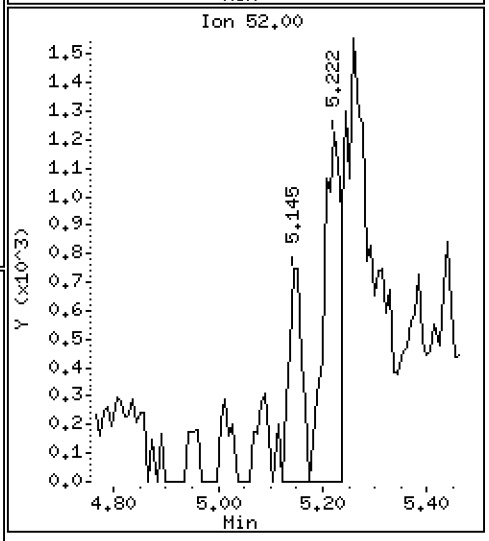
103 Pyridine

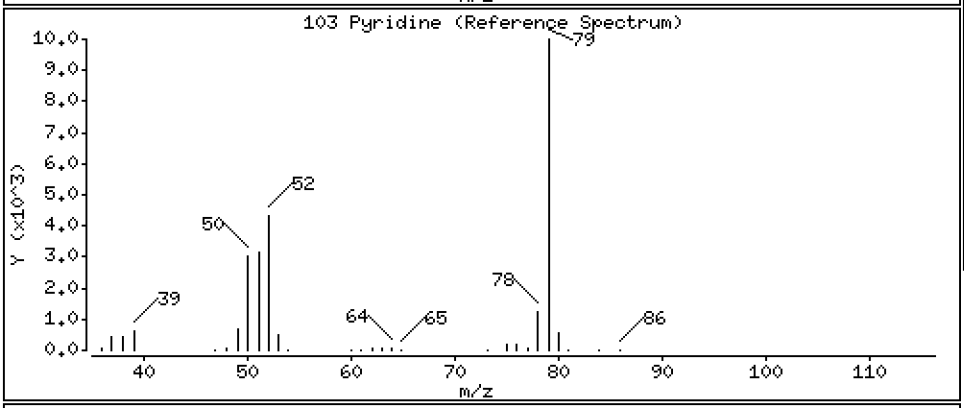
Concentration: 1.002 ug/mL

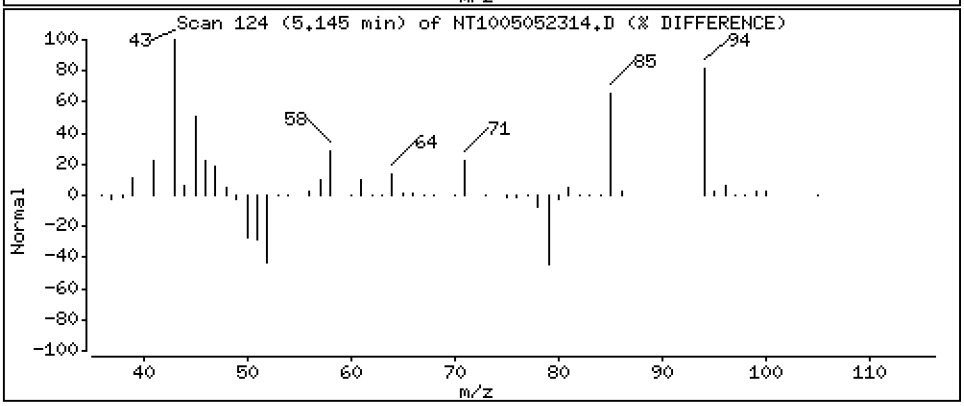












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

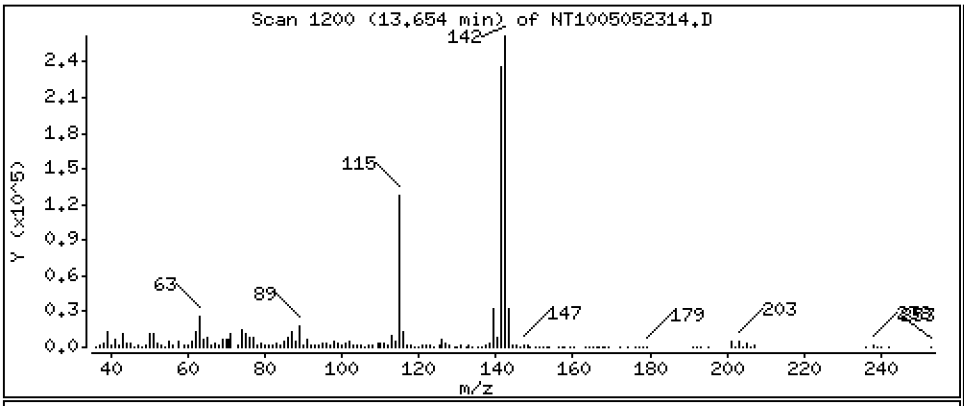
Operator: VTS

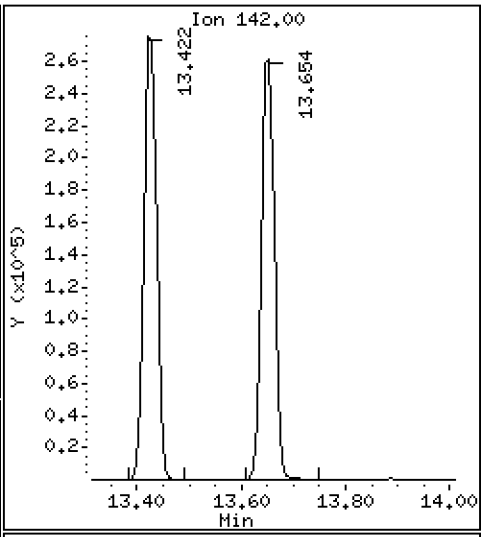
Column phase: ZB-5msi

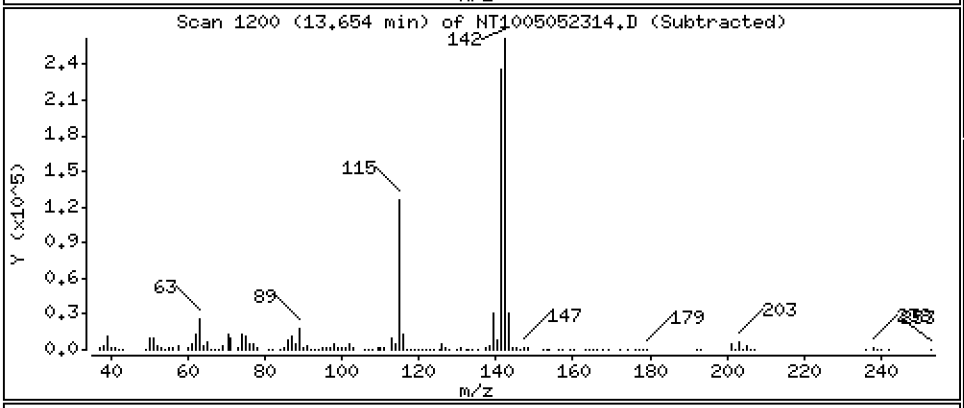
Column diameter: 0.25

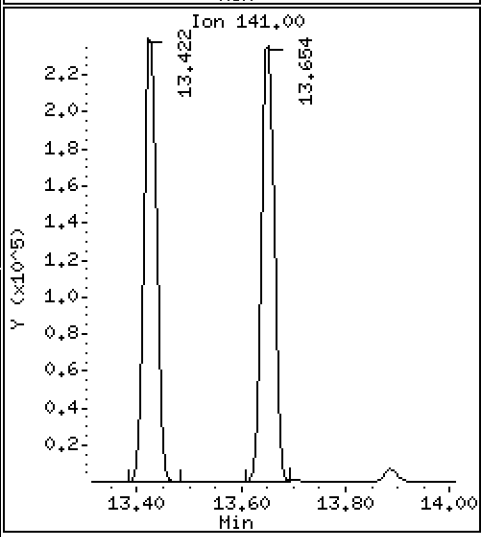
105 1-methylnaphthalene

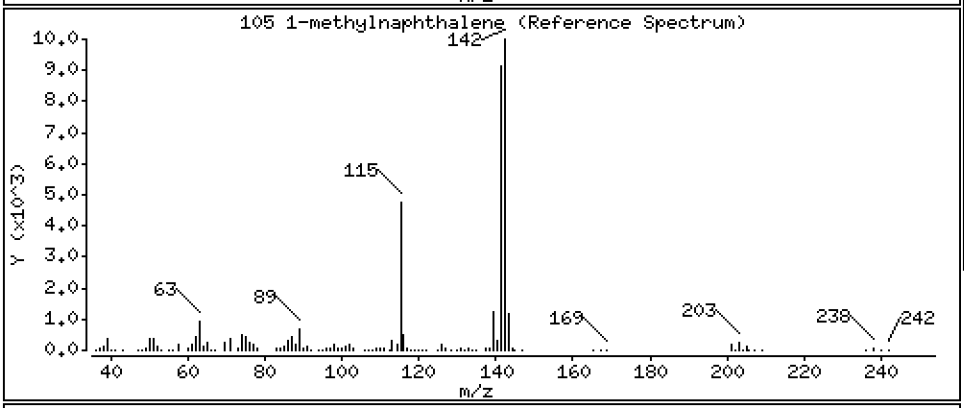
Concentration: 3.701 ug/mL

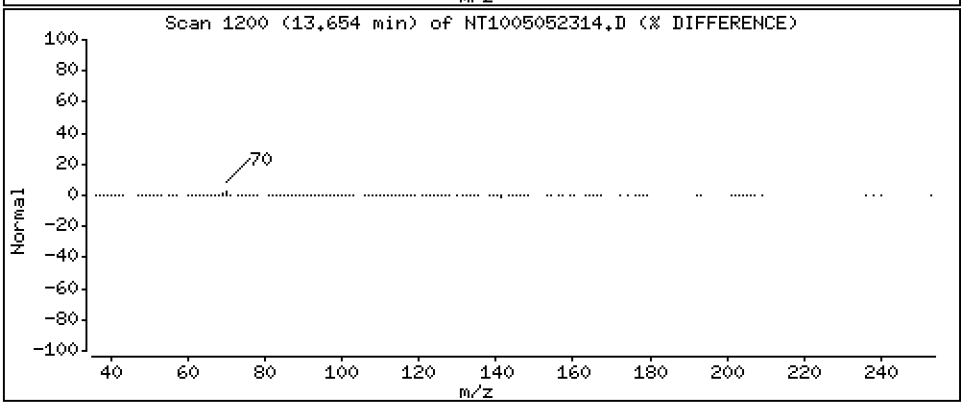












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052314.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

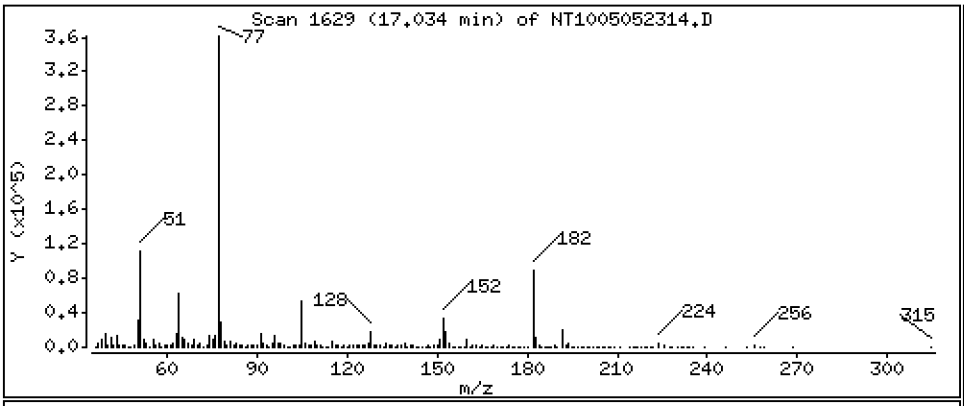
Operator: VTS

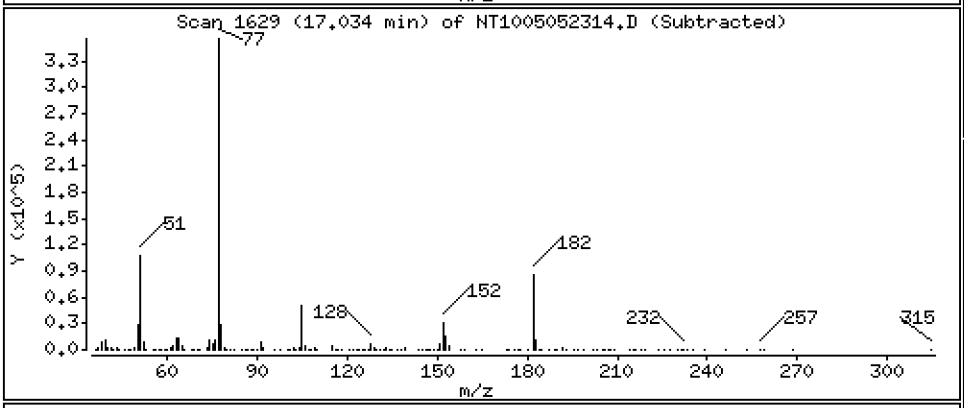
Column phase: ZB-5msi

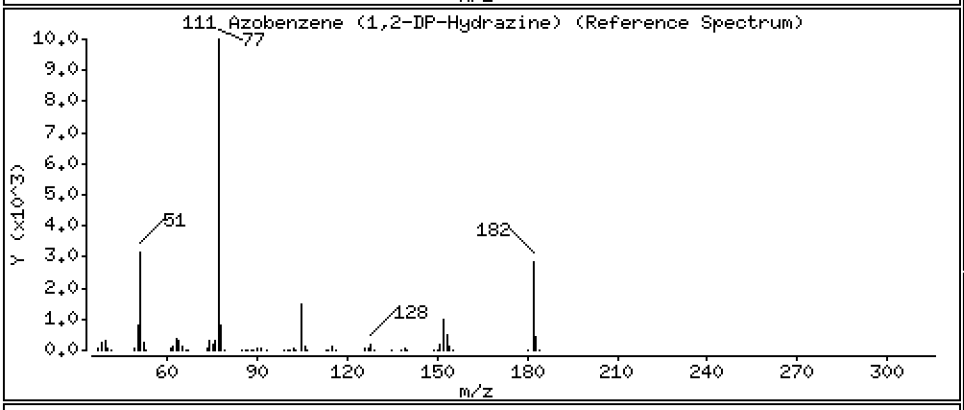
Column diameter: 0.25

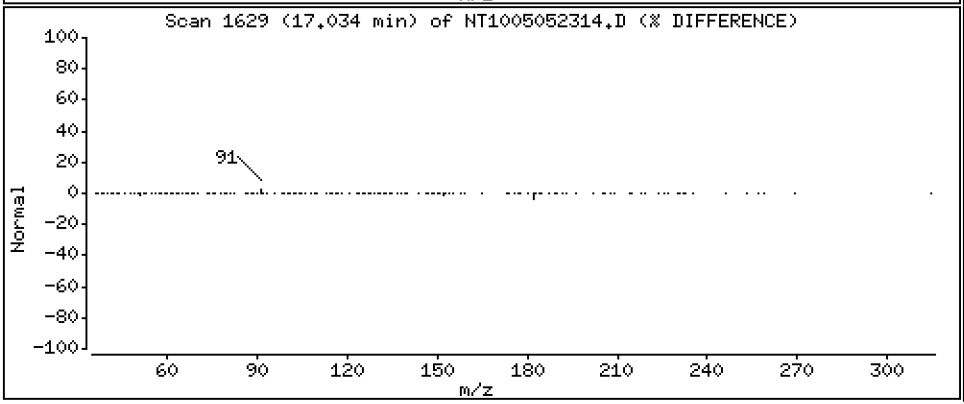
111 Azobenzene (1,2-DP-Hydrazine)

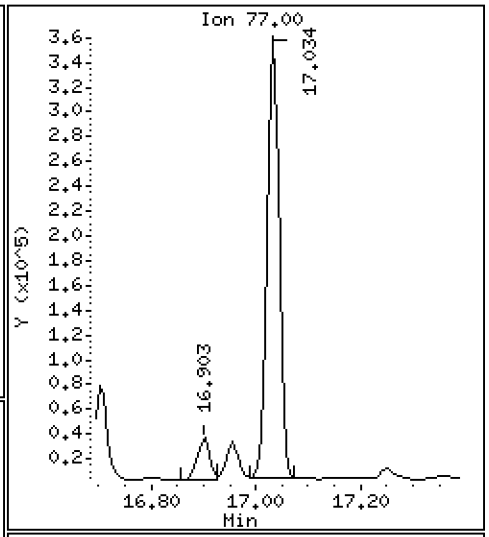
Concentration: 4.040 ug/mL

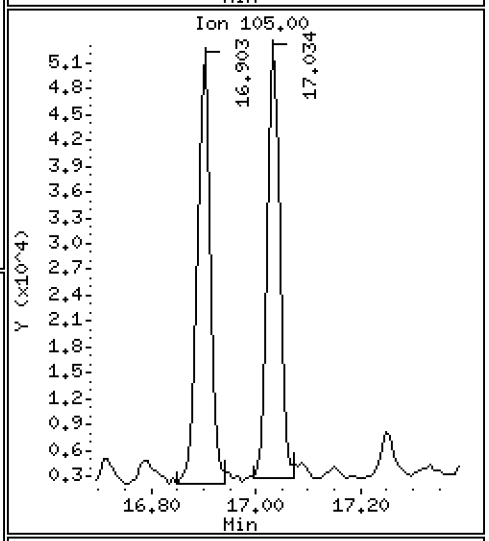


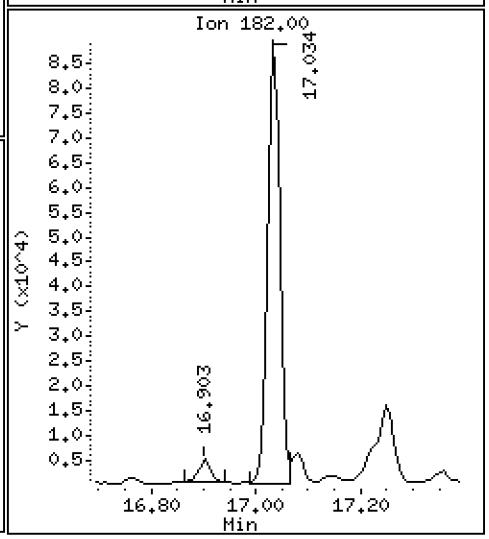












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

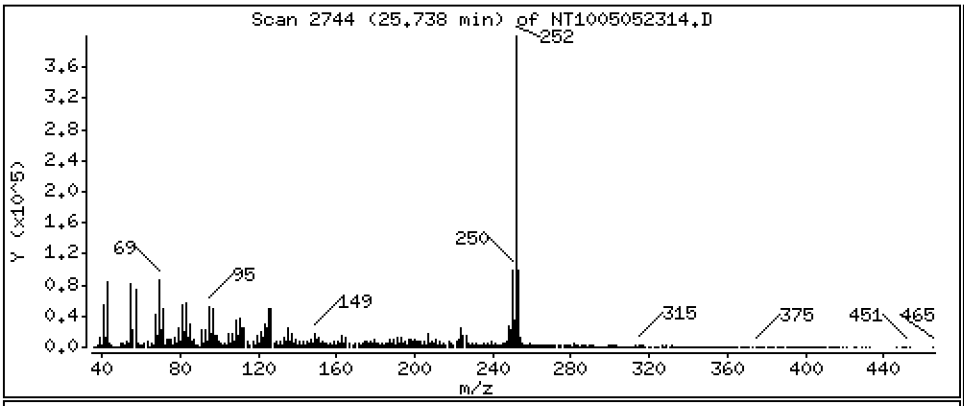
Operator: VTS

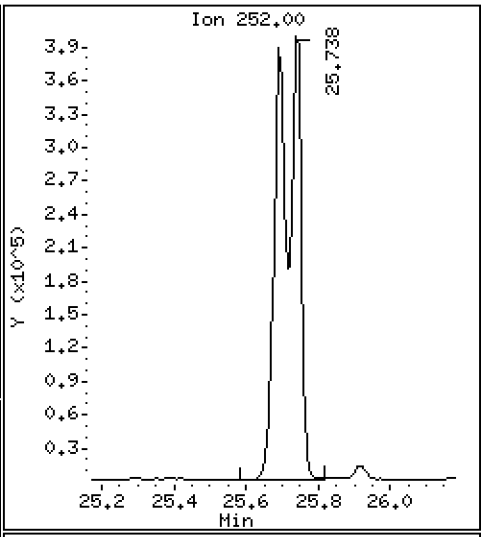
Column phase: ZB-5msi

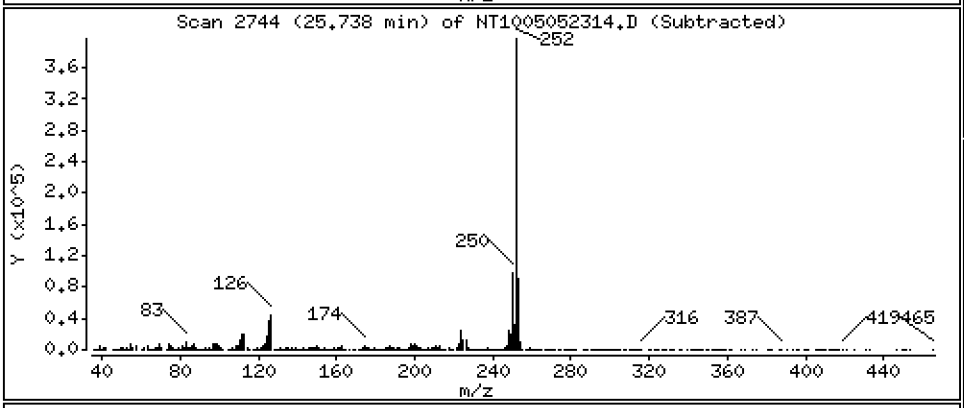
Column diameter: 0.25

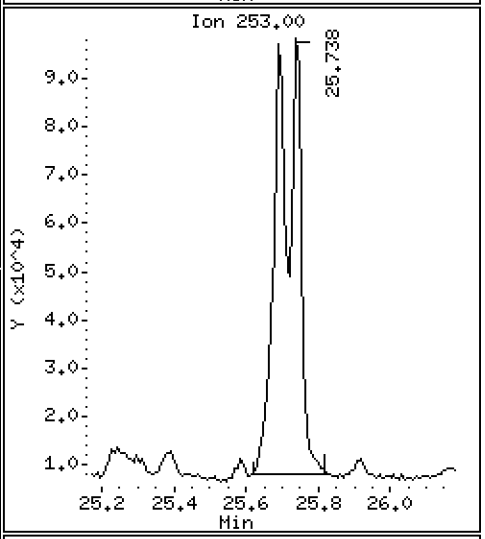
187 Total Benzofluoranthenes

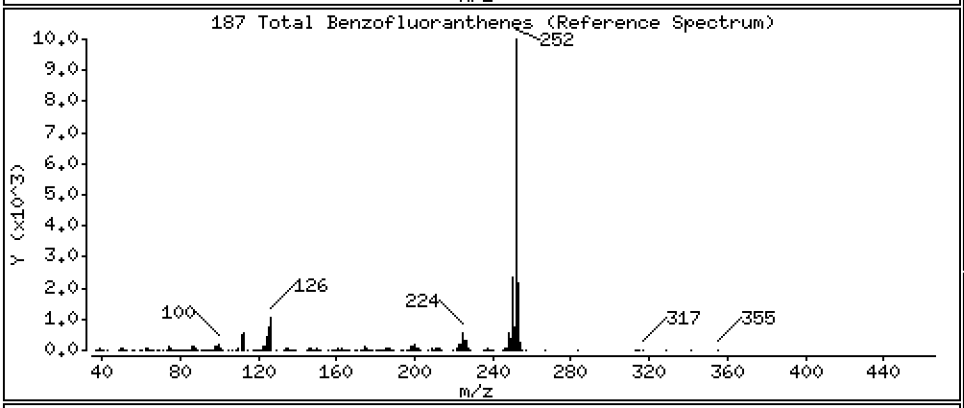
Concentration: 10.92 ug/mL

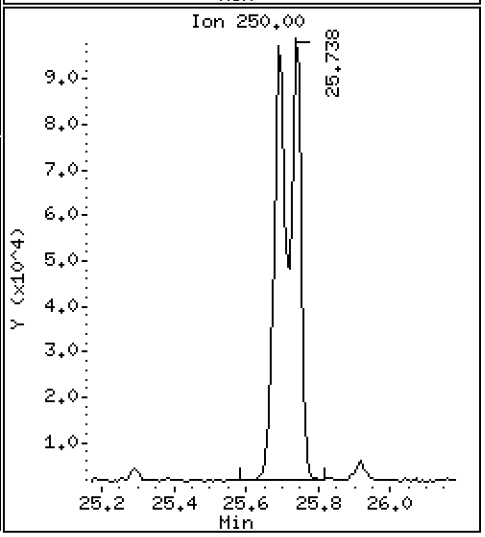


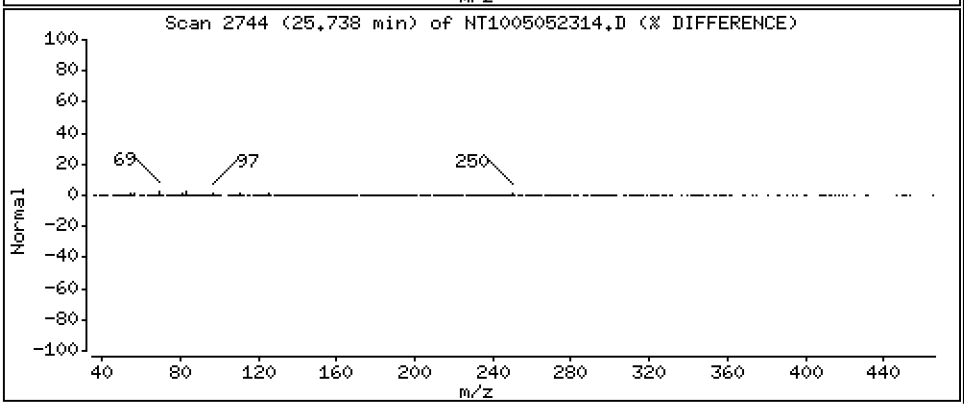












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD1

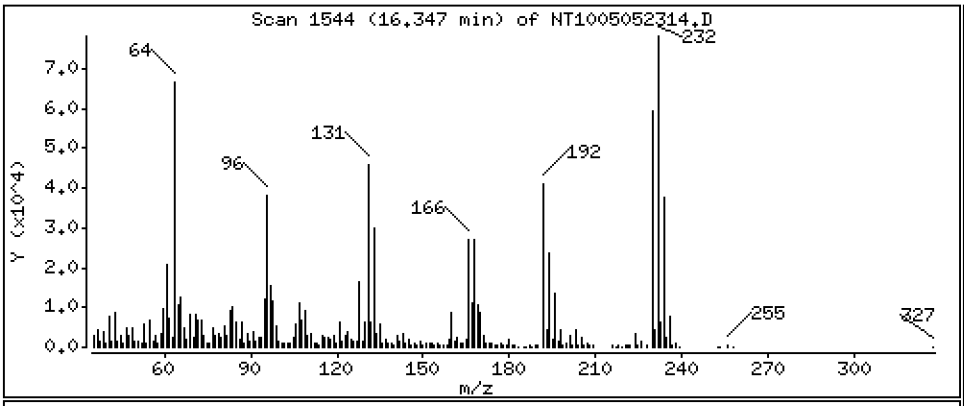
Operator: VTS

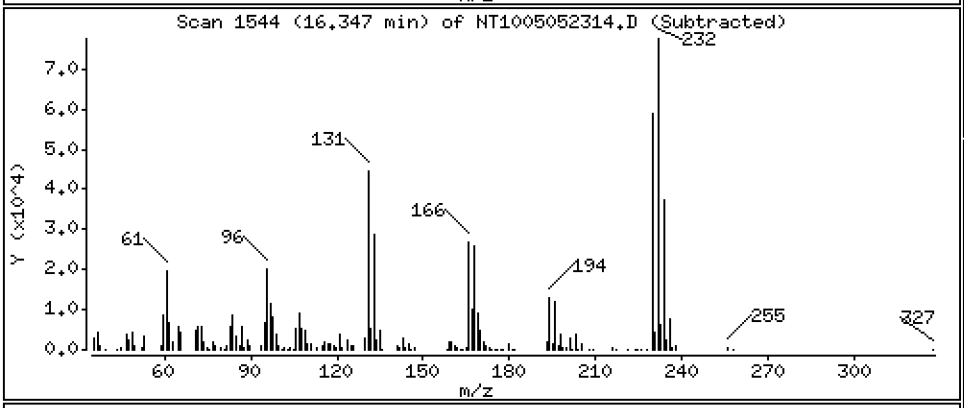
Column phase: ZB-5msi

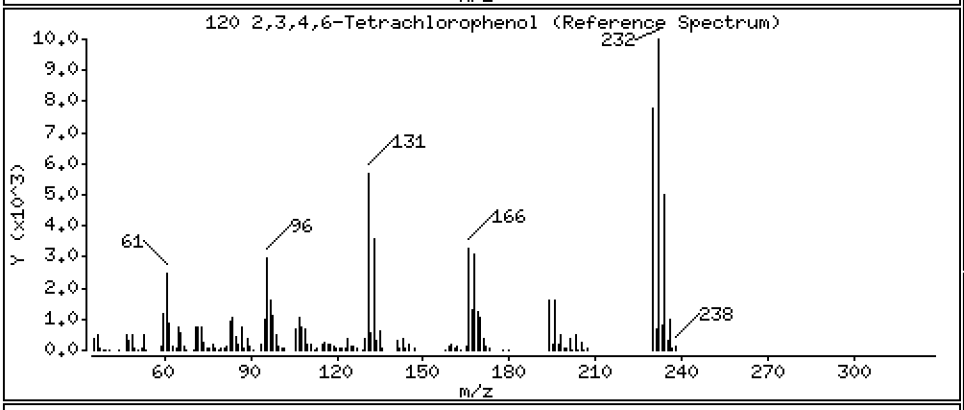
Column diameter: 0.25

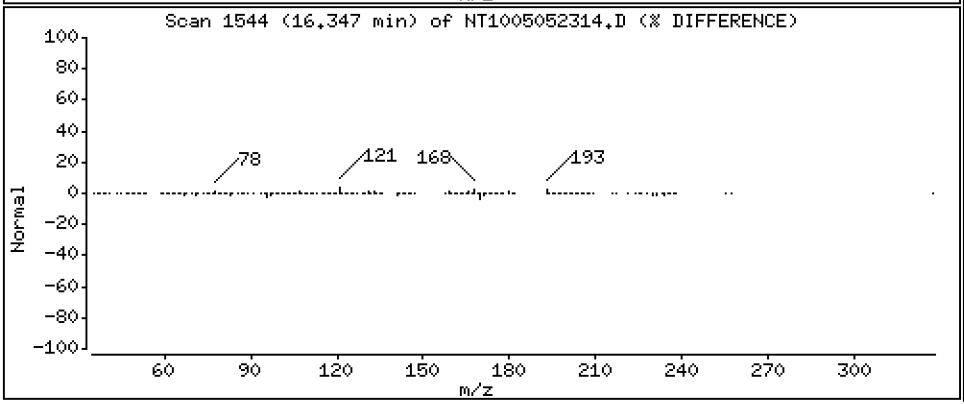
120 2,3,4,6-Tetrachlorophenol

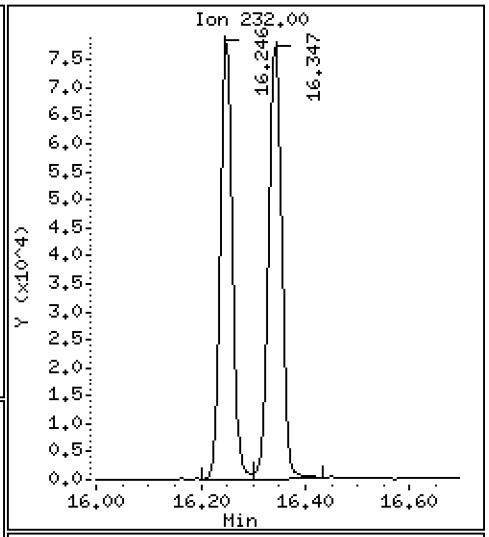
Concentration: 2.921 ug/mL

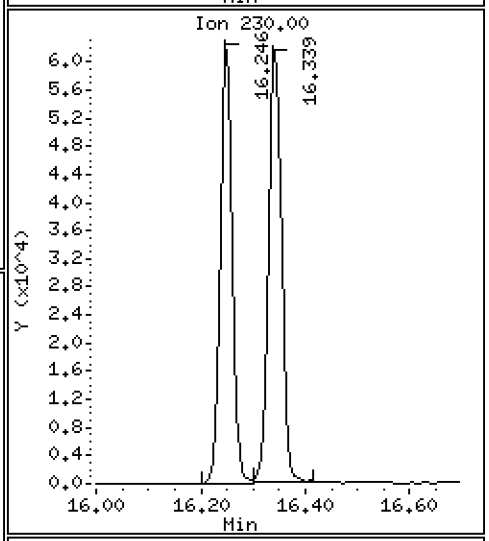


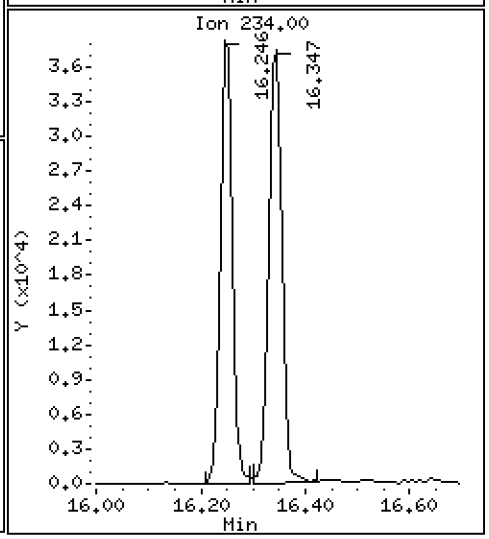












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 05-MAY-2023 19:11
Operator : VTS Inst ID: nt10.i
Smp Info : BLD0329-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.245	7.253	(1.000)	156690	3.08232	3.082	
$	2 Phenol-d5	99	8.829	8.830	(1.000)	236140	3.85295	3.853	
	3 Phenol	94	8.852	8.853	(1.000)	191343	2.91988	2.920	
$	5 2-Chlorophenol-d4	132	9.130	9.139	(1.000)	282993	4.81818	4.818	
	4 Bis(2-Chloroethyl)ether	93	9.030	9.038	(1.000)	153862	3.24484	3.245	
	6 2-Chlorophenol	128	9.154	9.162	(1.000)	168666	2.91891	2.919	
	7 1,3-Dichlorobenzene	146	9.432	9.440	(1.000)	190614	2.92784	2.928	
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.502	(1.000)	167995	4.00000	(M)	
	9 1,4-Dichlorobenzene	146	9.525	9.533	(1.000)	187102	2.92562	2.926	
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.867	(1.000)	128133	2.95714	2.957	
	12 1,2-Dichlorobenzene	146	9.882	9.890	(1.000)	190125	3.06208	3.062	
	11 Benzyl alcohol	108	9.758	9.766	(1.000)	171184	5.43475	5.435	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.069	(1.000)	67731	3.77699	3.777	
	13 2-Methylphenol	108	9.975	9.976	(1.000)	148399	3.08756	3.088	
	17 Hexachloroethane	117	10.480	10.488	(1.000)	67081	2.42588	2.426	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.325	(1.000)	144561	3.79735	3.797	
	15 4-Methylphenol	108	10.247	10.240	(1.000)	204026	3.53599	3.536	
$	18 Nitrobenzene-d5	82	10.596	10.604	(0.884)	240115	3.54149	3.541	
	19 Nitrobenzene	77	10.627	10.636	(0.886)	234088	3.57254	3.573	
	20 Isophorone	82	11.070	11.078	(0.923)	435842	5.58725	5.587	
	21 2-Nitrophenol	139	11.257	11.266	(0.939)	110868	3.18705	3.187	
	22 2,4-Dimethylphenol	107	11.291	11.300	(0.942)	559240	8.74020	8.740	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.503	(0.959)	210068	4.21273	4.213	
	24 Benzoic acid	105	11.452	11.486	(0.955)	398153	8.94935	8.949	
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	571031	11.3603	11.36	
	26 1,2,4-Trichlorobenzene	180	11.898	11.906	(0.992)	224616	3.11991	3.120	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	606720	4.00000		
	28 Naphthalene	128	12.029	12.037	(1.003)	602218	3.55767	3.558	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	136174	3.42976	3.430	
	31 4-Chloro-3-methylphenol	107	13.104	13.105	(1.093)	653732	11.9338	11.93	
	32 2-Methylnaphthalene	142	13.422	13.437	(1.119)	444034	3.50845	3.508	
	33 Hexachlorocyclopentadiene	237	13.886	13.902	(0.889)	73508	1.74410	1.744	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	492668	11.8665	11.87
	35 2,4,5-Trichlorophenol	196	14.118	14.118	(0.904)	523742	11.5683	11.57
$	36 2-Fluorobiphenyl	172	14.203	14.211	(0.909)	527082	3.59207	3.592
	37 2-Chloronaphthalene	162	14.428	14.436	(0.924)	416985	3.60815	3.608
	38 2-Nitroaniline	65	14.683	14.691	(0.940)	400002	11.9179	11.92
	39 Dimethylphthalate	163	15.101	15.109	(0.967)	525351	4.04262	4.043
	40 Acenaphthylene	152	15.302	15.310	(0.980)	655697	3.63481	3.635
	41 2,6-Dinitrotoluene	165	15.248	15.256	(0.976)	329734	11.2413	11.24
*	42 Acenaphthene-d10	164	15.620	15.628	(1.000)	338935	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	15.681	15.689	(1.004)	430402	3.75138	3.751
	45 2,4-Dinitrophenol	184	15.743	15.759	(1.008)	19188	0.85186	0.8519
	46 Dibenzofuran	168	16.006	16.014	(1.025)	644538	3.85297	3.853
	47 4-Nitrophenol	109	15.851	15.844	(1.015)	269257	9.90790	9.908
	48 2,4-Dinitrotoluene	165	16.060	16.068	(1.028)	455302	10.7505	10.75
	50 Diethylphthalate	149	16.563	16.571	(1.060)	653208	4.84113	4.841
	49 Fluorene	166	16.725	16.733	(1.071)	543912	3.94138	3.941
	51 4-Chlorophenyl-phenylether	204	16.702	16.710	(1.069)	308524	4.48969	4.490
	52 4-Nitroaniline	138	16.825	16.825	(1.077)	48609	1.72896	1.729
	53 4,6-Dinitro-2-methylphenol	198	16.902	16.918	(0.905)	167291	7.10556	7.106
	54 N-Nitrosodiphenylamine	169	16.956	16.964	(0.908)	300926	3.81601	3.816
$	55 2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	97021	5.78585	5.786
	56 4-Bromophenyl-phenylether	248	17.720	17.728	(0.949)	148045	3.97678	3.977
	57 Hexachlorobenzene	284	18.044	18.052	(0.966)	129258	3.45927	3.459
	58 Pentachlorophenol	266	18.400	18.401	(0.985)	293289	10.9215	10.92
*	59 Phenanthrene-d10	188	18.671	18.679	(1.000)	596756	4.00000	
	60 Phenanthrene	178	18.725	18.726	(1.003)	811961	4.63708	4.637
	61 Anthracene	178	18.818	18.818	(1.008)	610934	3.77566	3.776
	62 Carbazole	167	19.135	19.136	(1.025)	582014	4.06348	4.063
	63 Di-n-butylphthalate	149	19.901	19.902	(1.066)	936412	4.28346	4.283
	64 Fluoranthene	202	21.100	21.085	(0.890)	1173232	5.88577	5.886
	65 Pyrene	202	21.518	21.511	(0.908)	1099260	5.52045	5.520
$	66 Terphenyl-d14	244	21.781	21.782	(0.919)	534221	3.39220	3.392
	67 Butylbenzylphthalate	149	22.695	22.695	(0.958)	377515	4.20976	4.210
	68 Benzo(a)anthracene	228	23.671	23.663	(0.999)	877168	4.96287	4.963
*	69 Chrysene-d12	240	23.702	23.694	(1.000)	446464	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.748	23.741	(1.002)	962806	6.08623	6.086
	72 bis(2-Ethylhexyl)phthalate	149	23.709	23.702	(0.958)	797013	6.09576	6.096
*	134 Di-n-octylphthalate-d4	153	24.747	24.739	(1.000)	907671	4.00000	
	73 Di-n-octylphthalate	149	24.754	24.747	(1.000)	1000045	4.17615	4.176
	74 Benzo(b)fluoranthene	252	25.691	25.676	(0.968)	881037	5.67723	5.677
	75 Benzo(k)fluoranthene	252	25.738	25.730	(0.969)	846166	5.49476	5.495
	76 Benzo(a)pyrene	252	26.427	26.404	(0.995)	640821	4.93339	4.933
*	77 Perylene-d12	264	26.551	26.528	(1.000)	377775	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.560	29.498	(1.113)	636818	4.08096	4.081
	79 Dibenzo(a,h)anthracene	278	29.568	29.514	(1.114)	486756	3.72457	3.725
	80 Benzo(g,h,i)perylene	276	30.438	30.376	(1.146)	510506	4.10443	4.104
	90 N-Nitrosodimethylamine	74	5.075	5.090	(1.000)	32777	1.19371	1.194
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	5.144	5.114	(1.000)	43385	1.00202	1.002
	105 1-methylnaphthalene	142	13.654	13.662	(1.139)	429470	3.70131	3.701
	111 Azobenzene (1,2-DP-Hydrazine)	77	17.033	17.041	(1.091)	532491	4.03958	4.040

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.738	25.676	(0.969)	1631628	10.9226	10.92
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.346	(1.047)	129768	2.92094	2.921

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052314.D
Lab Smp Id: BLD0329-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	167995	-6.39
27 Naphthalene-d8	621628	310814	1243256	606720	-2.40
42 Acenaphthene-d10	353112	176556	706224	338935	-4.01
59 Phenanthrene-d10	694933	347467	1389866	596756	-14.13
69 Chrysene-d12	553967	276984	1107934	446464	-19.41
134 Di-n-octylphthala	895601	447801	1791202	907671	1.35
77 Perylene-d12	482573	241287	965146	377775	-21.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.09
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.07
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.70	0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.75	0.03
77 Perylene-d12	26.53	26.03	27.03	26.55	0.09

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

REVIEW SUMMARY FOR FILE - NT1005052314.D

Lab ID: BLD0329-MSD1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 19:11

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.060	-0.0596	2,2'-oxybis(1-Chloropropane)

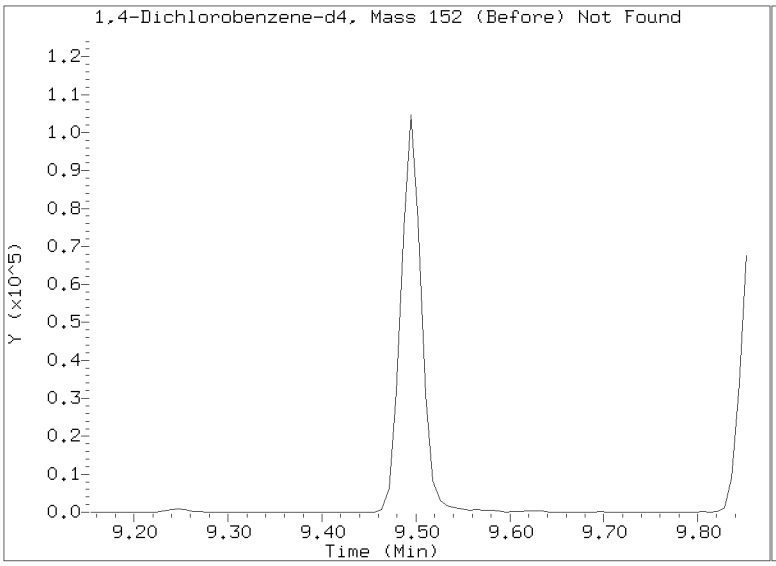
RRT check based on Ccal File: NT1005052303.D

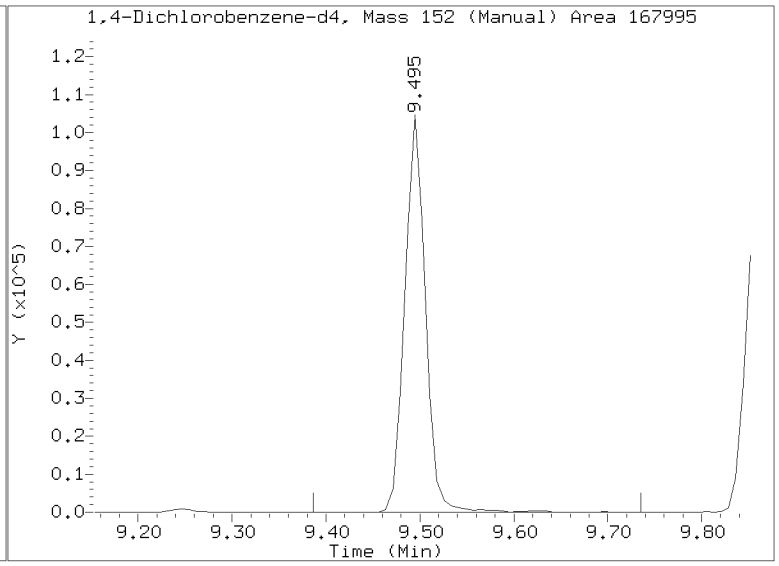
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052314.D
Injection Date: 05-MAY-2023 19:11
Lab ID:BLD0329-MSD1 Client ID:
Report Date: 05/08/2023 10:16





APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0329-SRM1
Batch: BLD0329
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 05/05/2023 16:36
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Phenol	2660.0	1880	43.9	200		70.8	26 - 174
4-Methylphenol	6617.0	5770	73.9	200		87.2	40 - 160
Naphthalene	4458.0	3420	42.4	200		76.7	25 - 175
Acenaphthylene	1948.0	1440	62.4	200		73.7	37 - 167
Dimethylphthalate	4537.0	4180	43.9	200		92.1	41 - 159
Acenaphthene	5489.0	4720	52.2	200		86.0	41 - 159
Dibenzofuran	6130.0	5440	141	200		88.8	45 - 155
Fluorene	3724.0	3190	146	200		85.7	44 - 156
Phenanthrene	5052.0	4260	87.2	200		84.3	46 - 154
Anthracene	2866.0	2050	71.9	200		71.5	42 - 158
Fluoranthene	2497.0	2180	60.9	200		87.3	39 - 161
Pyrene	2964.0	2740	56.8	200		92.3	38 - 162
Butylbenzylphthalate	3511.0	2990	94.1	200		85.2	36 - 164
Benzo(a)anthracene	5751.0	5190	59.6	200		90.3	49 - 151
Chrysene	1477.0	1200	60.6	200		81.3	45 - 155
bis(2-Ethylhexyl)phthalate	2905.0	2280	54.6	500		78.6	26 - 174
Benzofluoranthenes, Total	6534.0	4350	100	400		66.5	40 - 160
Benzo(a)pyrene	5902.0	4290	42.3	200		72.7	43 - 157
Indeno(1,2,3-cd)pyrene	3914.0	3410	147	200		87.1	22 - 178
Dibenzo(a,h)anthracene	3420.0	3000	172	200		87.7	37 - 163
Benzo(g,h,i)perylene	1380.0	1260	136	200		91.6	35 - 165

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

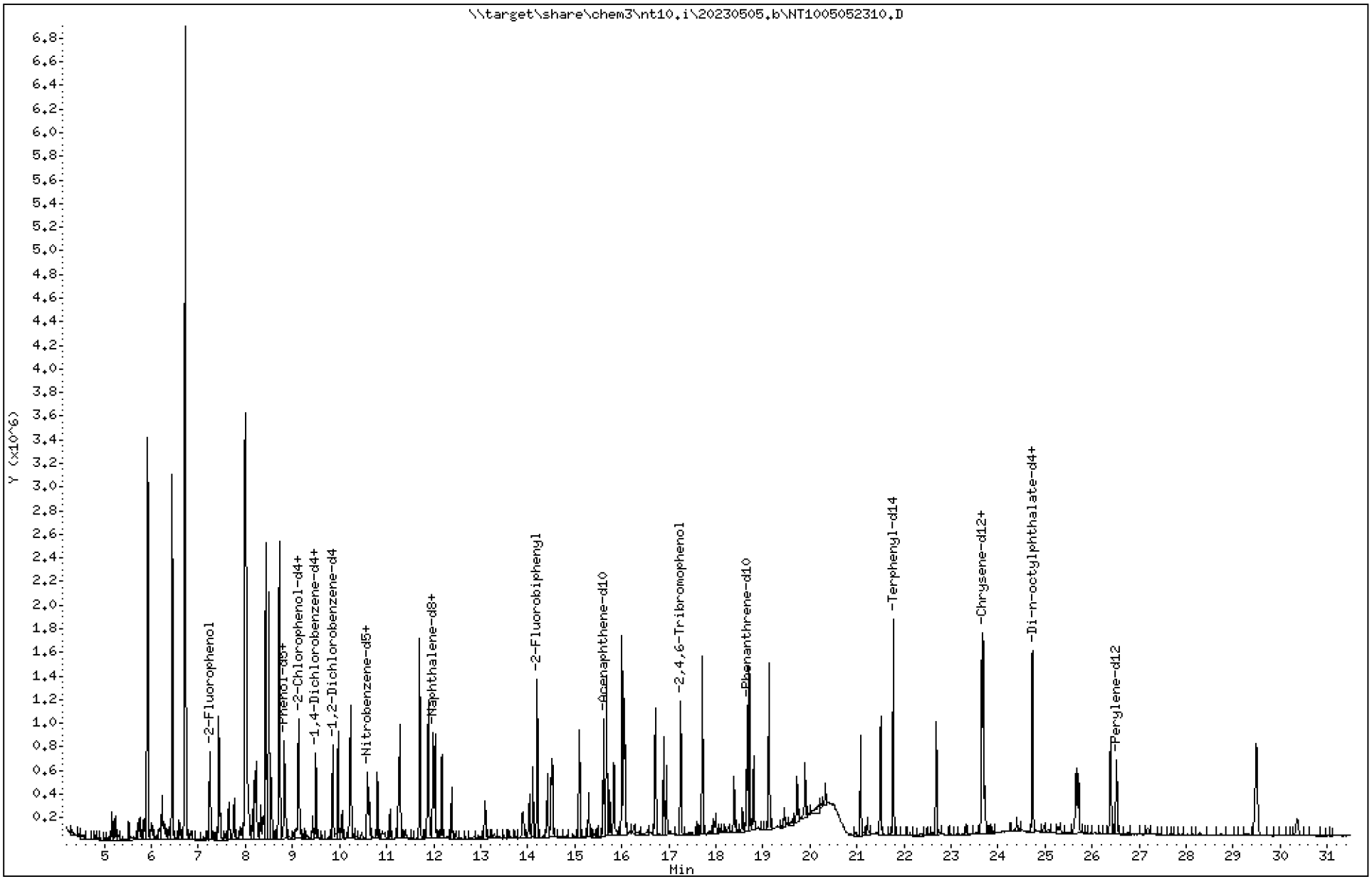
Instrument: nt10.i

Sample Info: BLD0329-SRM1

Operator: YZ

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 433 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

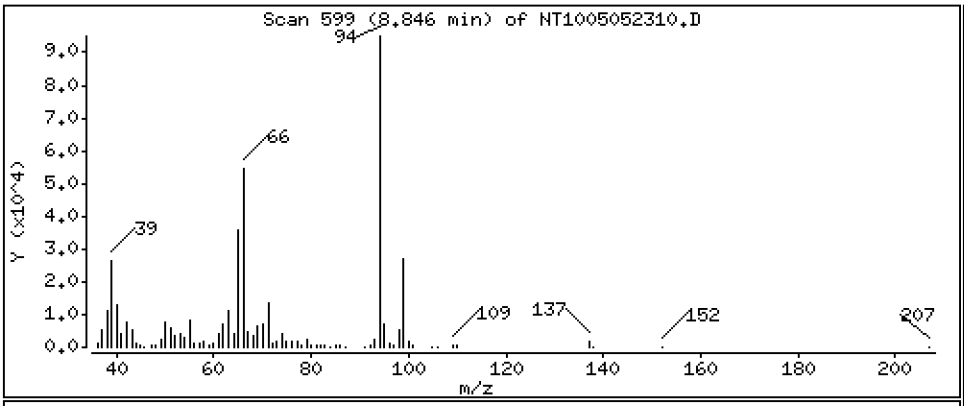
Operator: YZ

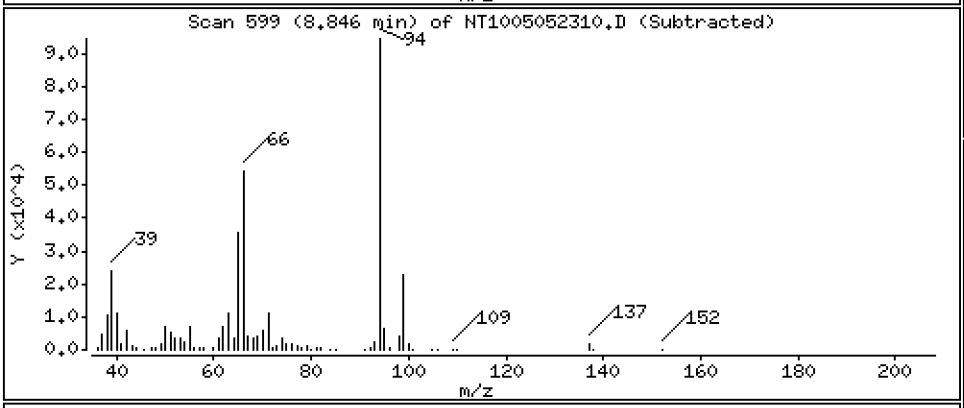
Column phase: ZB-5msi

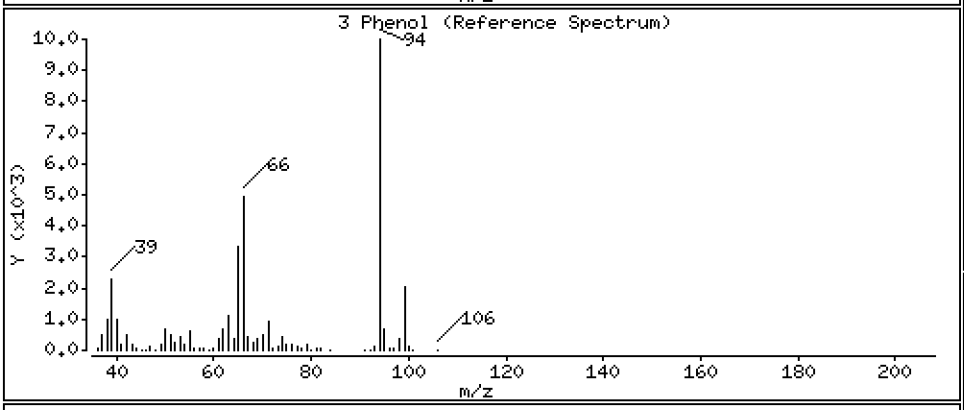
Column diameter: 0.25

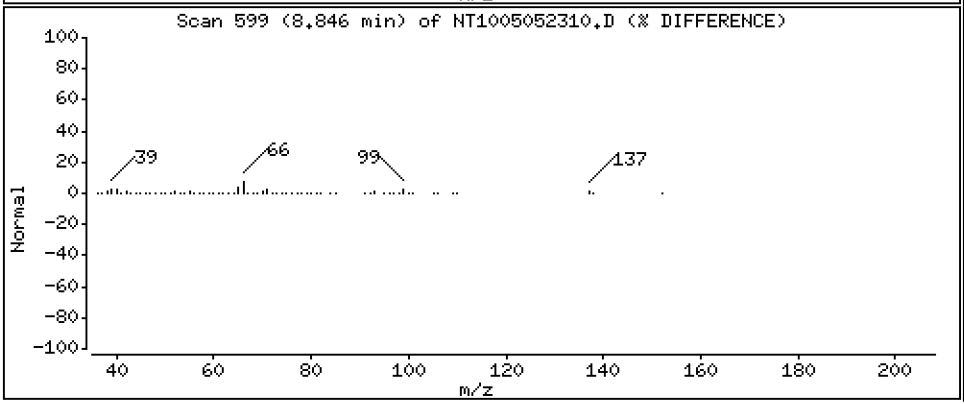
3 Phenol

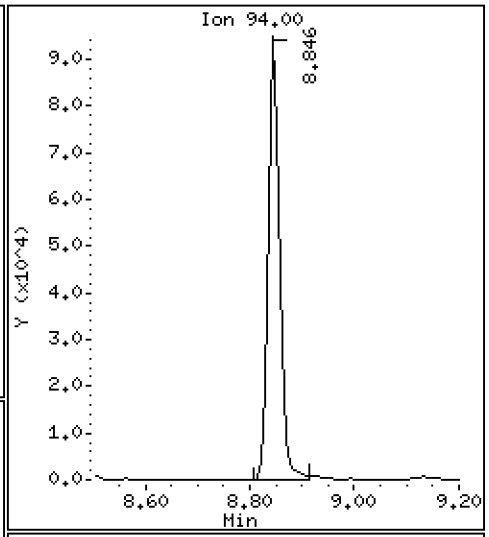
Concentration: 1.882 ug/mL

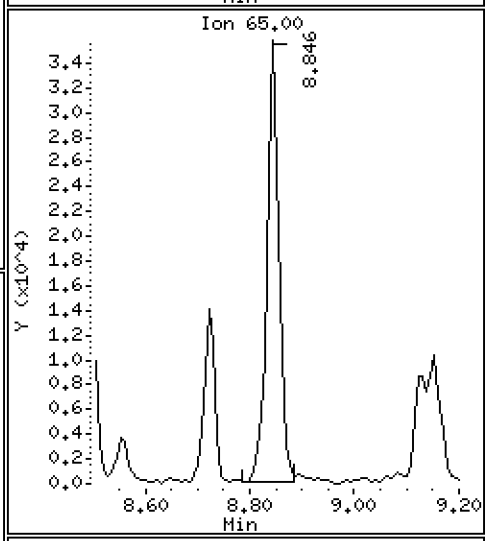


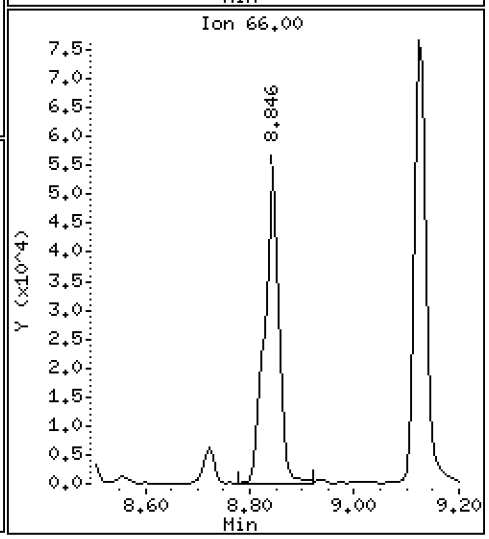












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

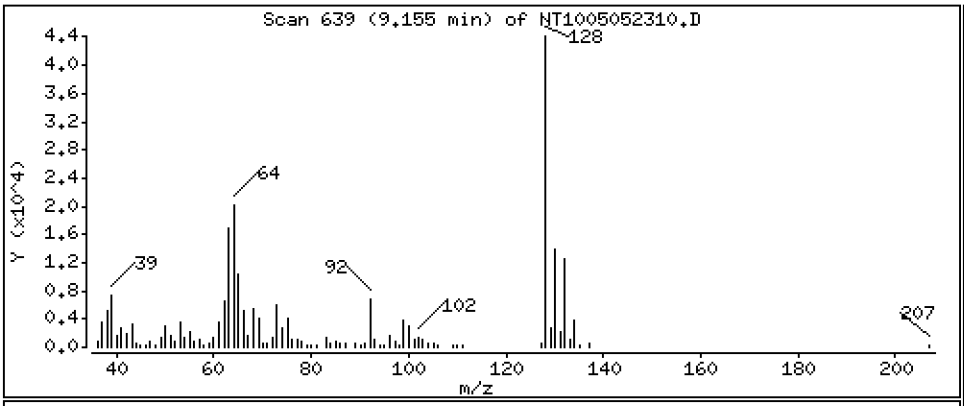
Operator: YZ

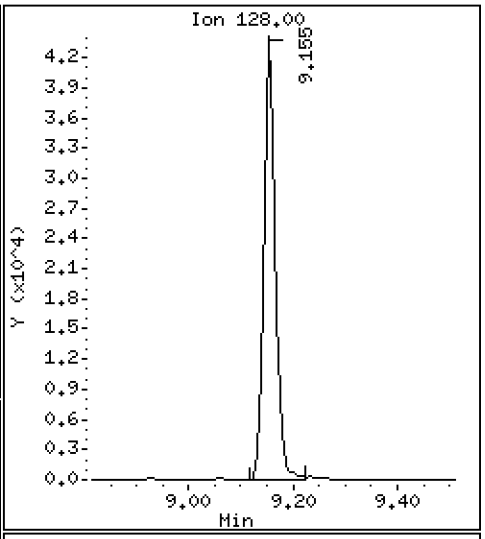
Column phase: ZB-5msi

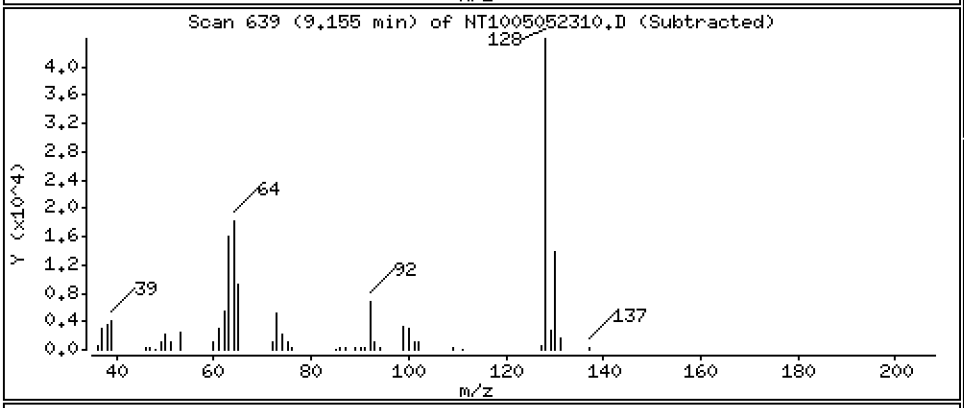
Column diameter: 0.25

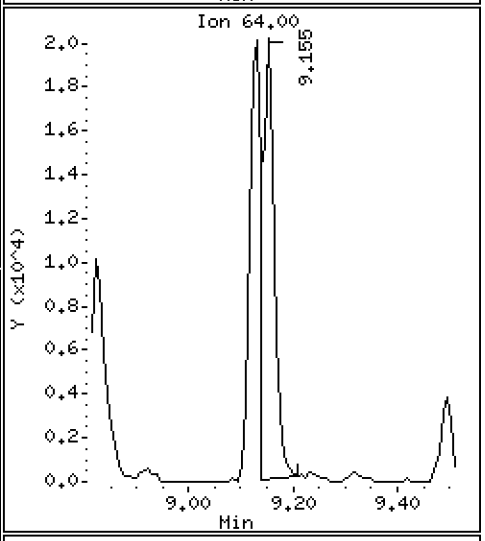
6 2-Chlorophenol

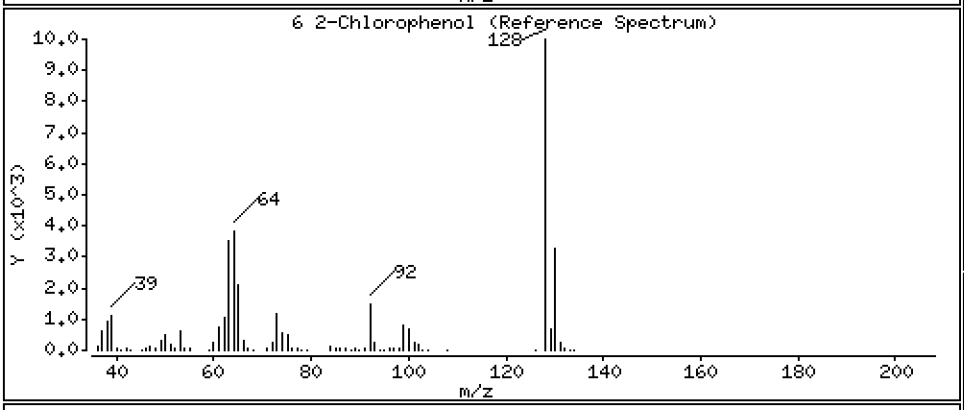
Concentration: 1.038 ug/mL

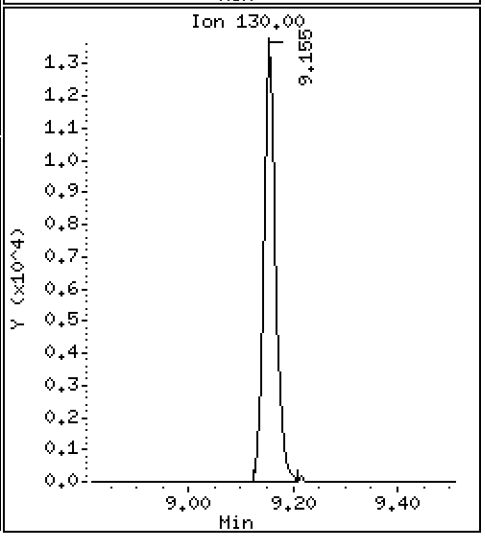


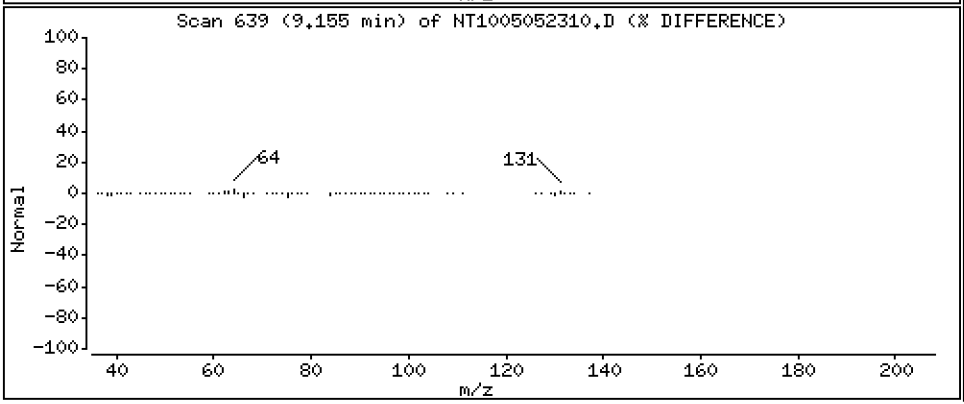












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

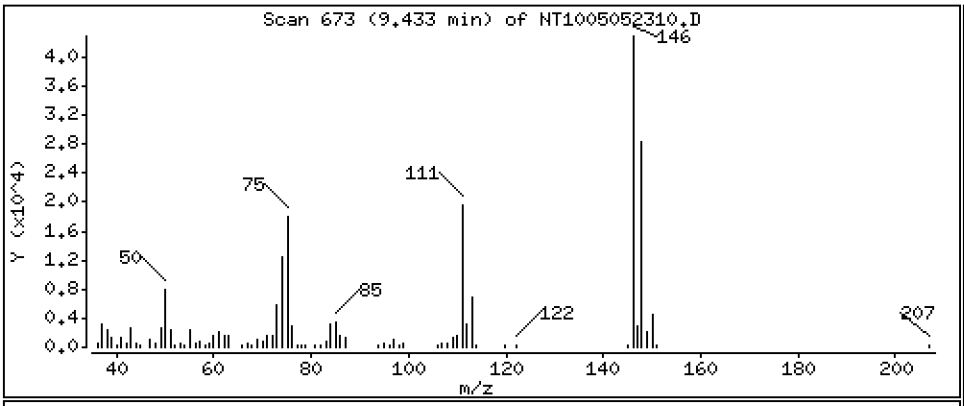
Operator: YZ

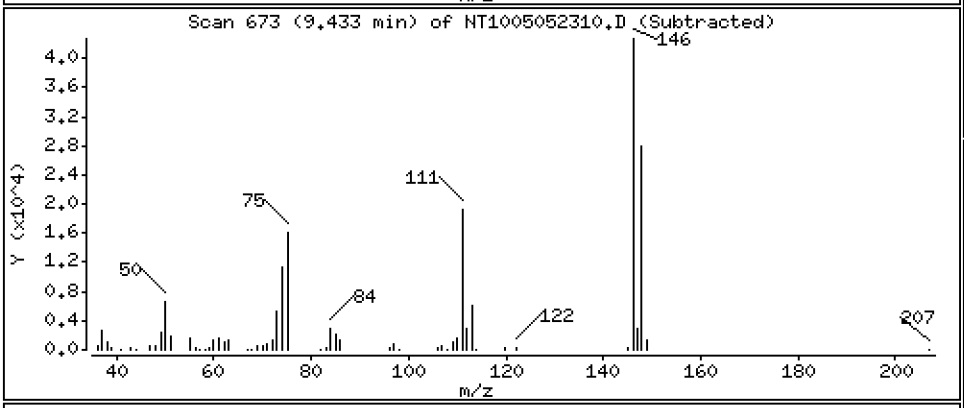
Column phase: ZB-5msi

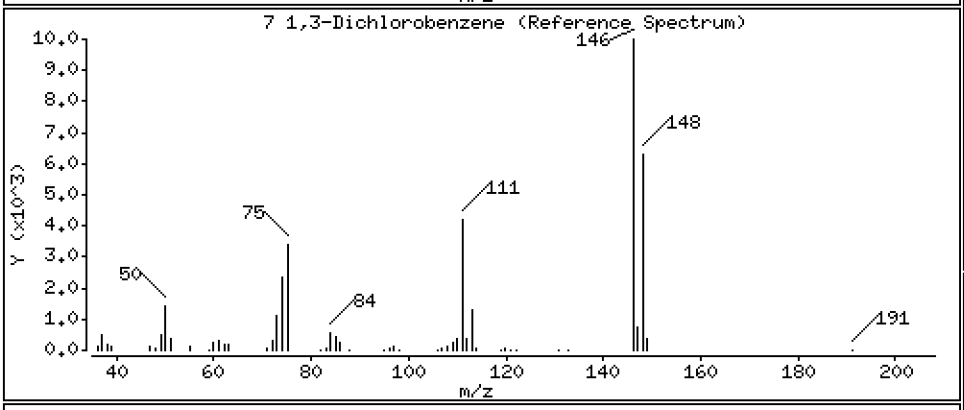
Column diameter: 0.25

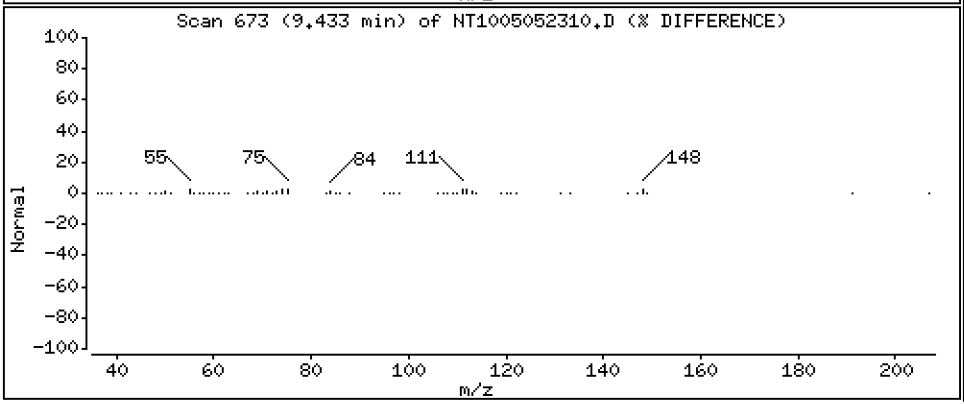
7 1,3-Dichlorobenzene

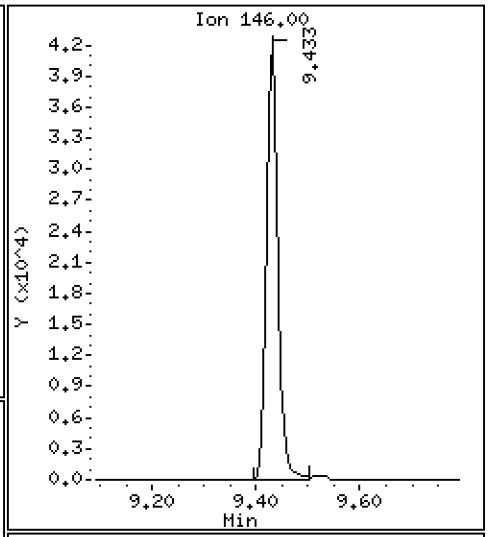
Concentration: 0.9107 ug/mL

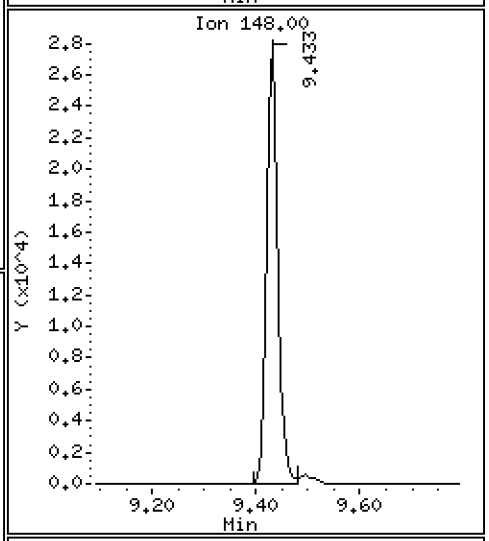


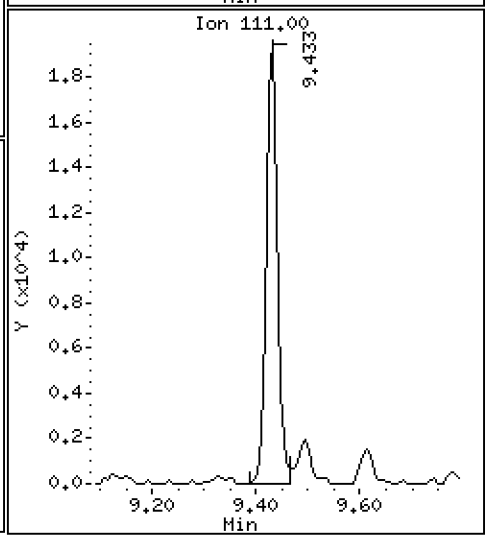












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

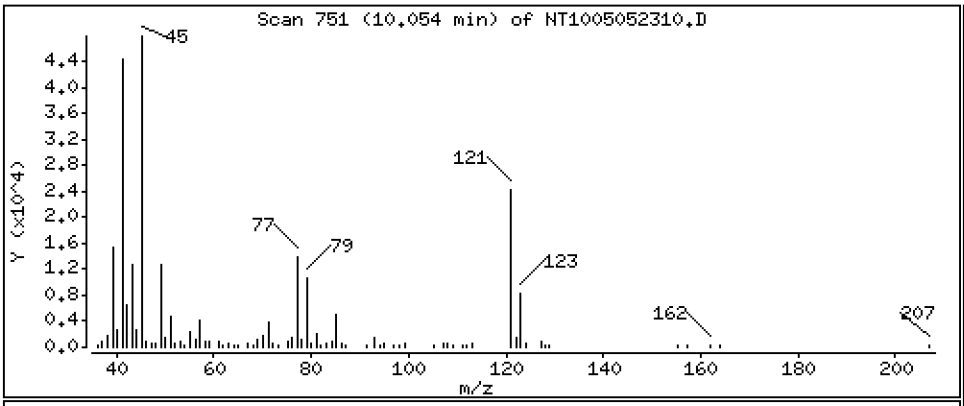
Operator: YZ

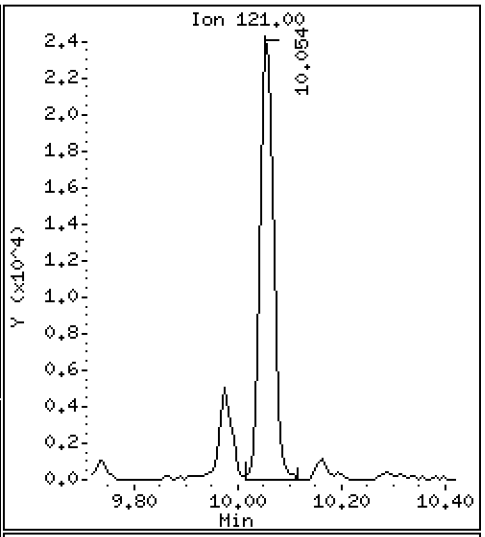
Column phase: ZB-5msi

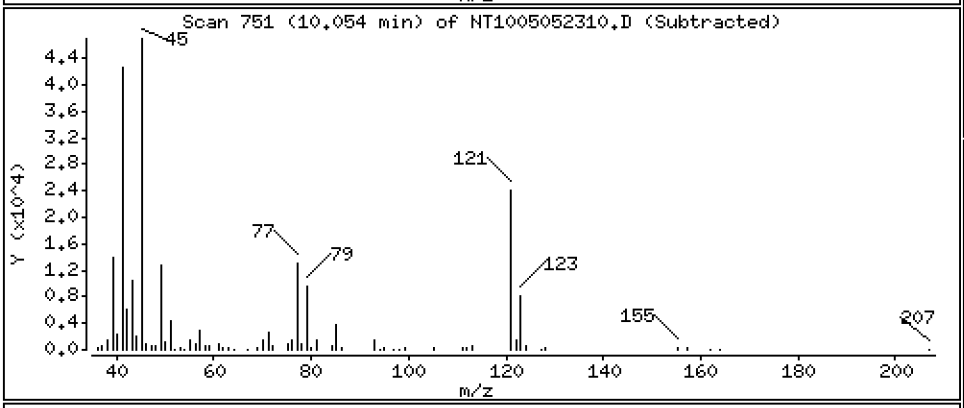
Column diameter: 0.25

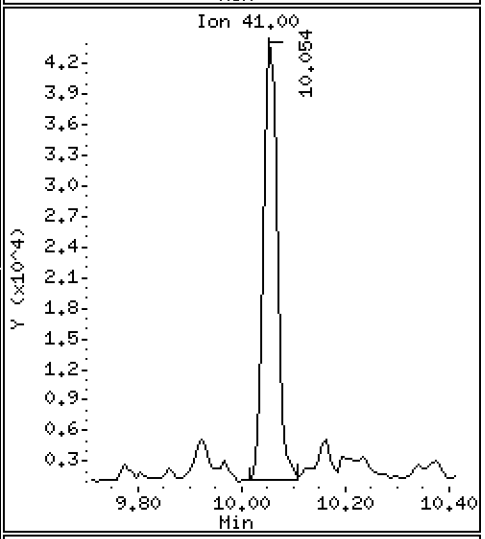
14 2,2'-oxybis(1-Chloropropane)

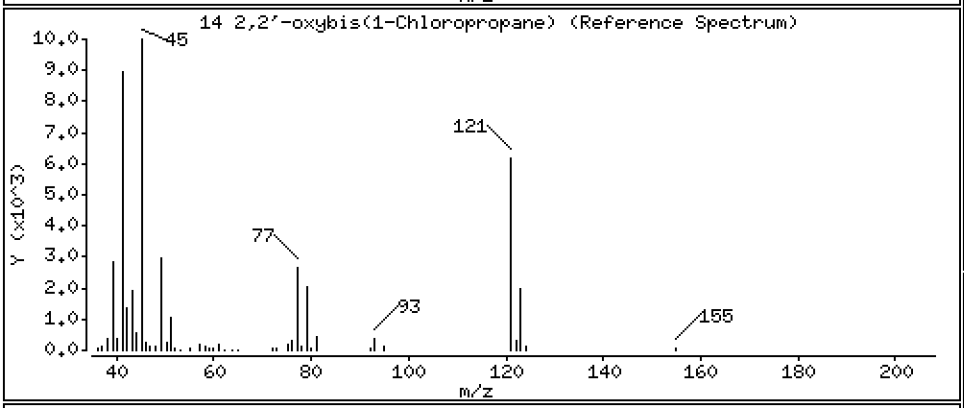
Concentration: 2.114 ug/mL

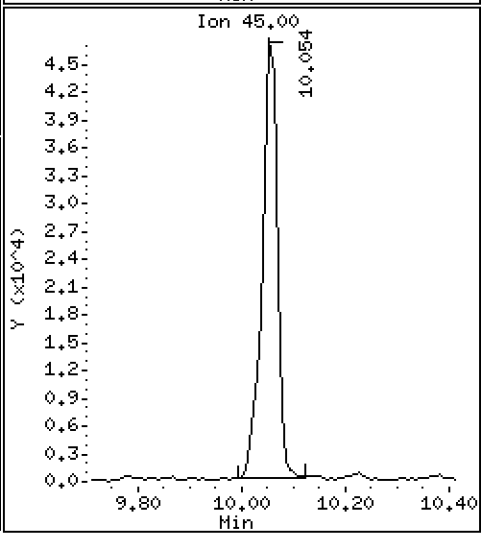


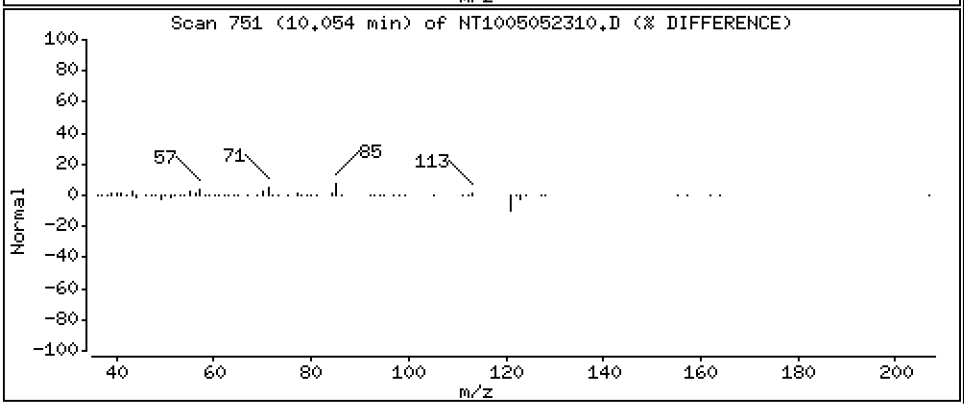












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

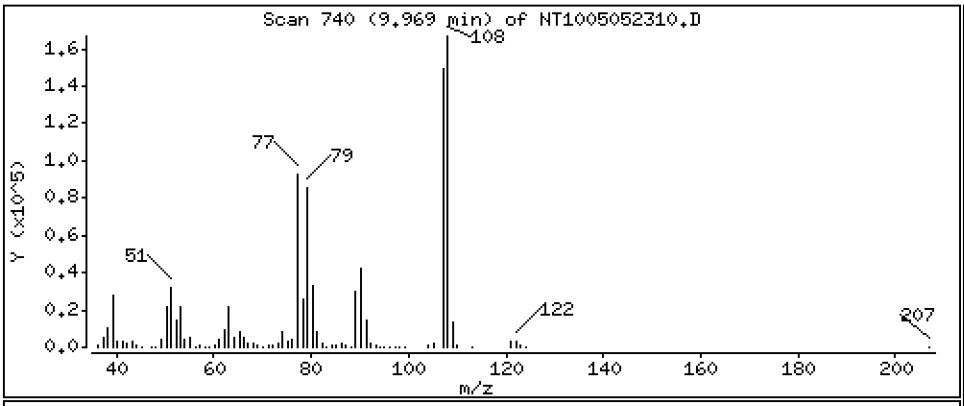
Operator: YZ

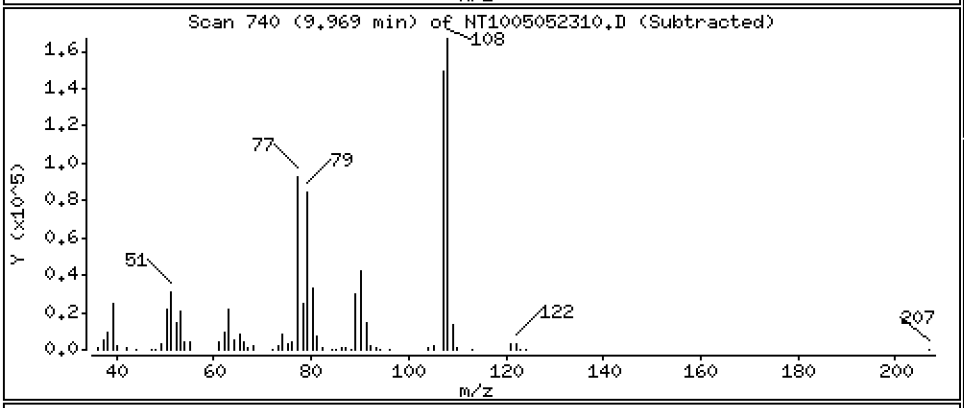
Column phase: ZB-5msi

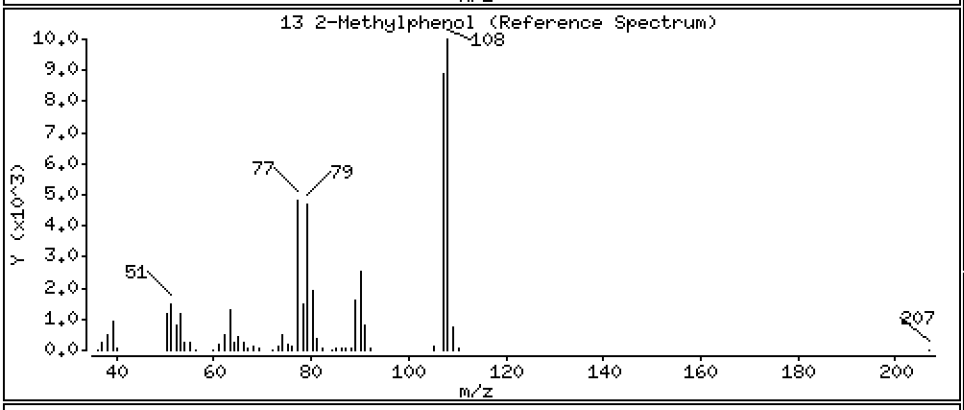
Column diameter: 0.25

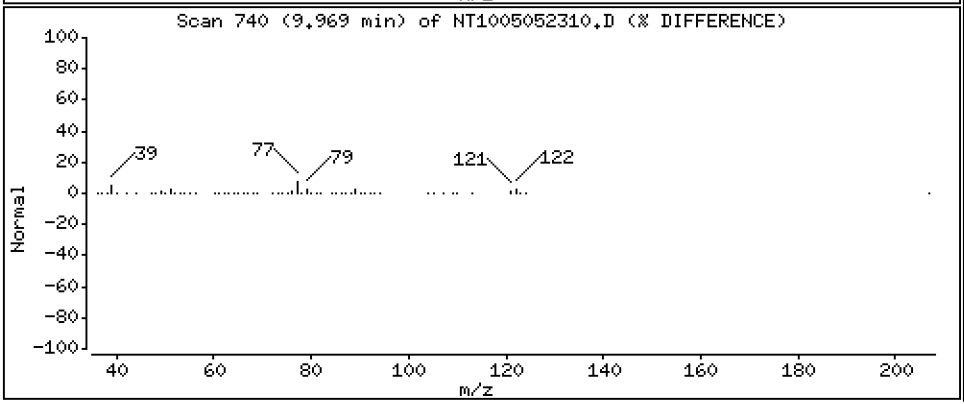
13 2-Methylphenol

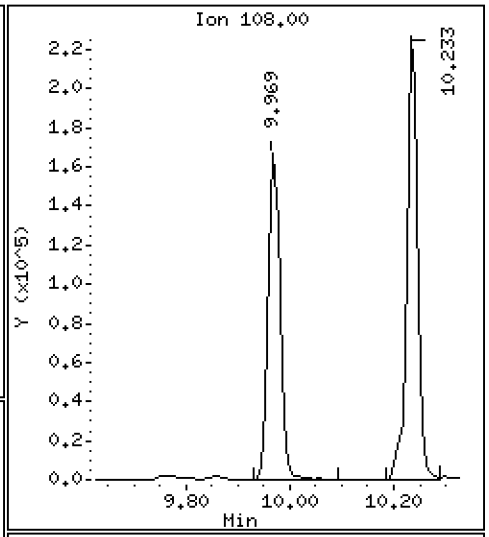
Concentration: 4.676 ug/mL

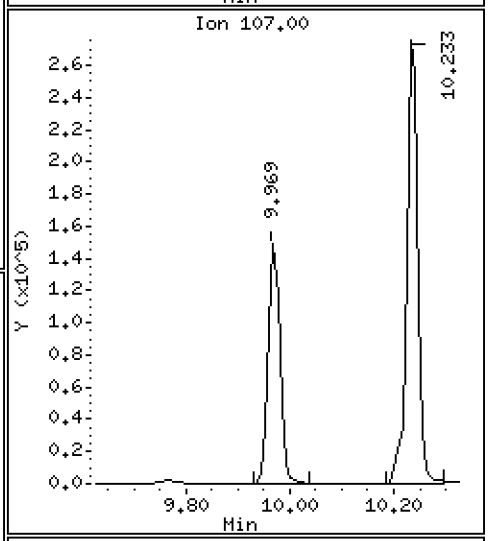


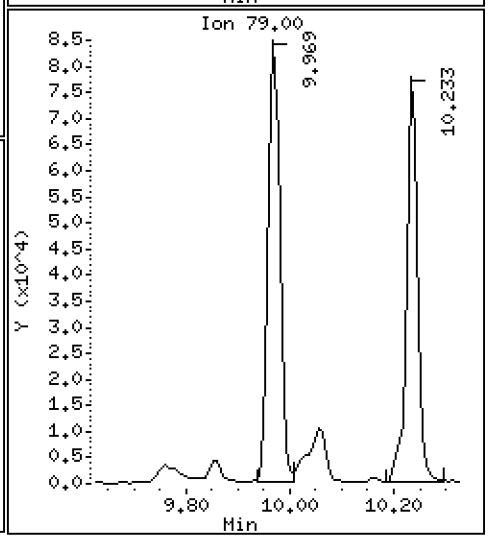












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

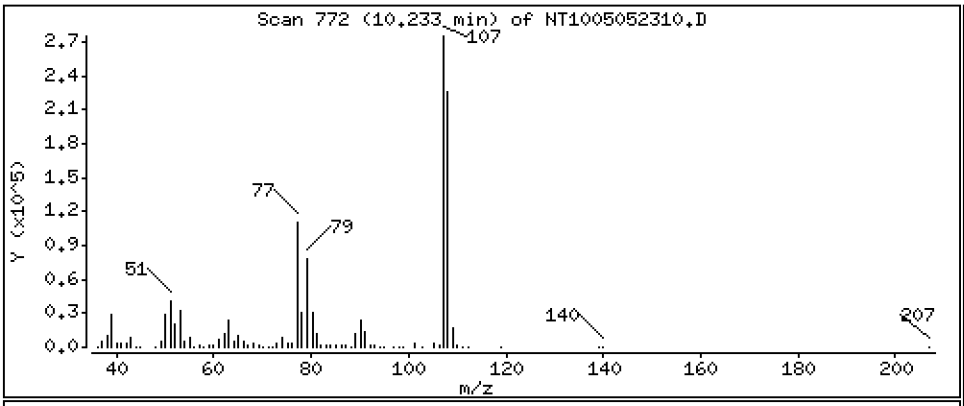
Operator: YZ

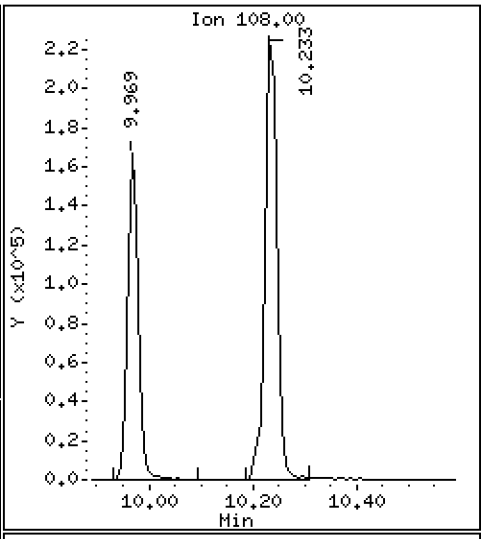
Column phase: ZB-5msi

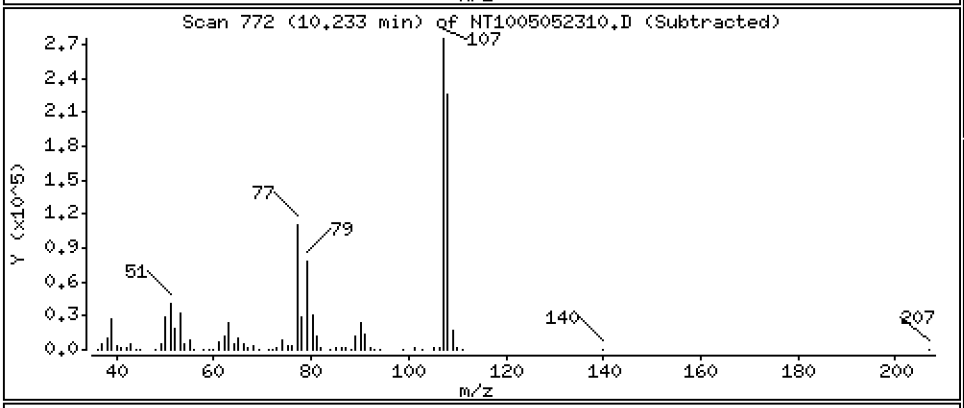
Column diameter: 0.25

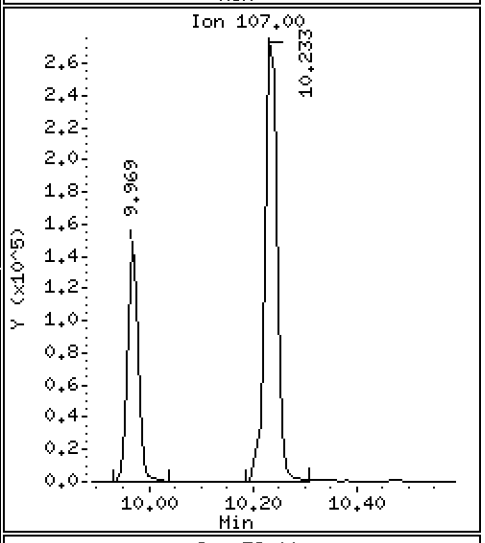
15 4-Methylphenol

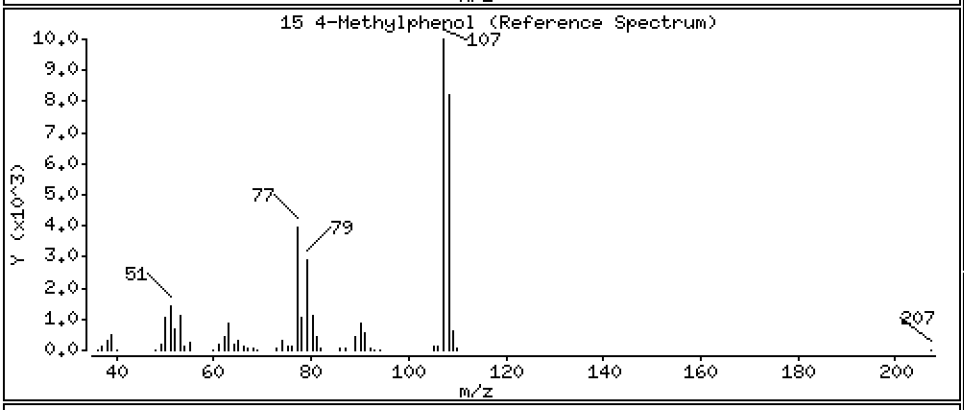
Concentration: 5.768 ug/mL

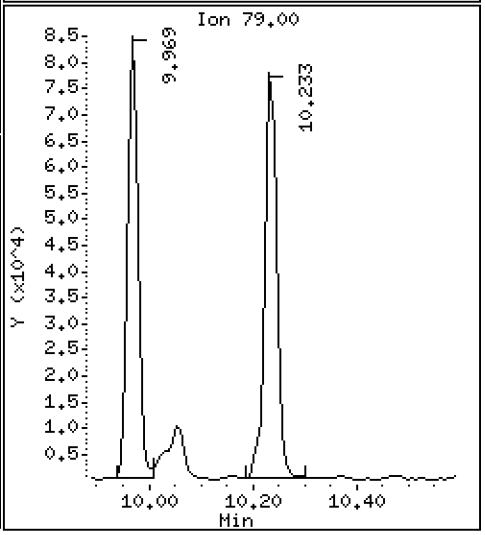


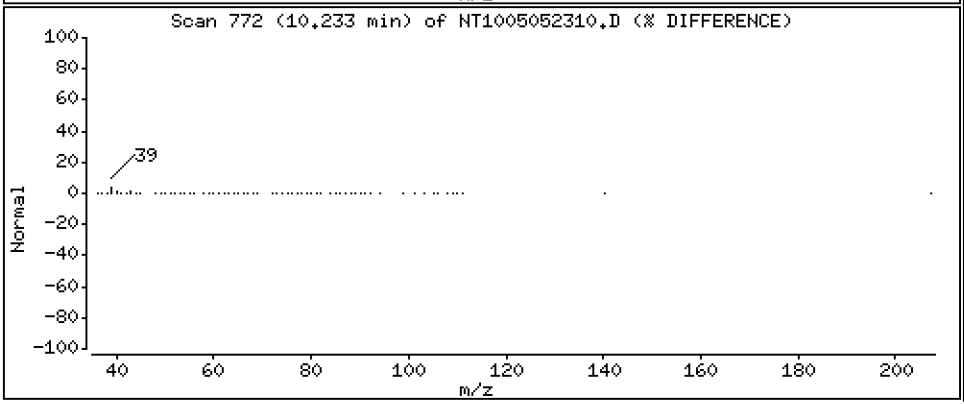












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

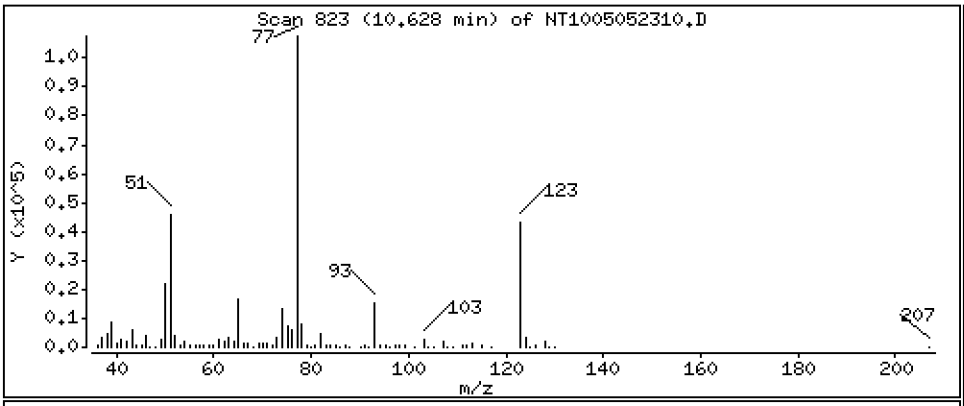
Operator: YZ

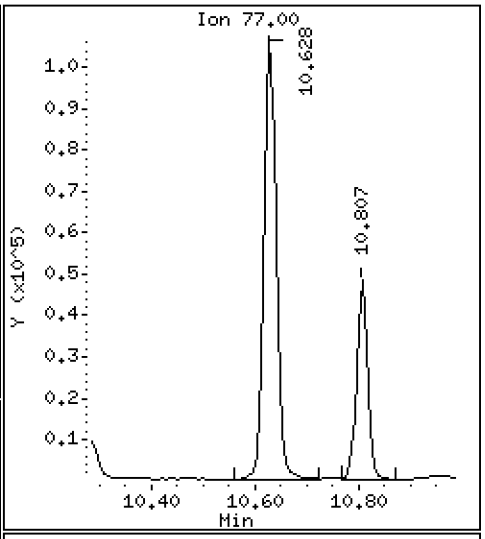
Column phase: ZB-5msi

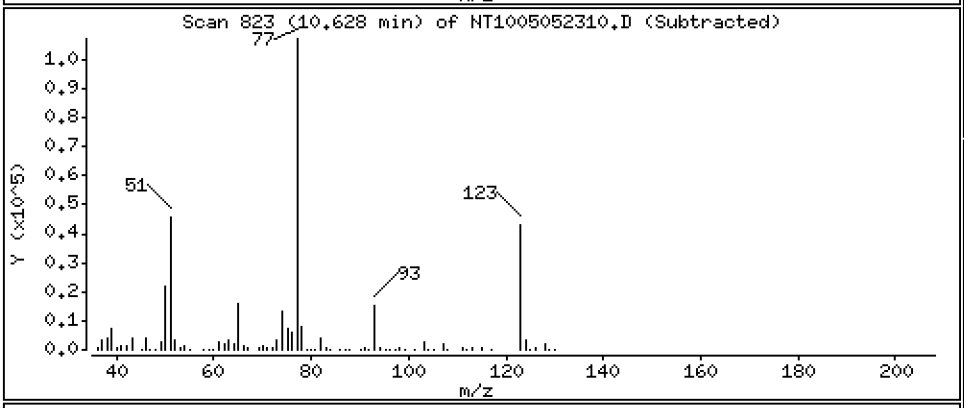
Column diameter: 0.25

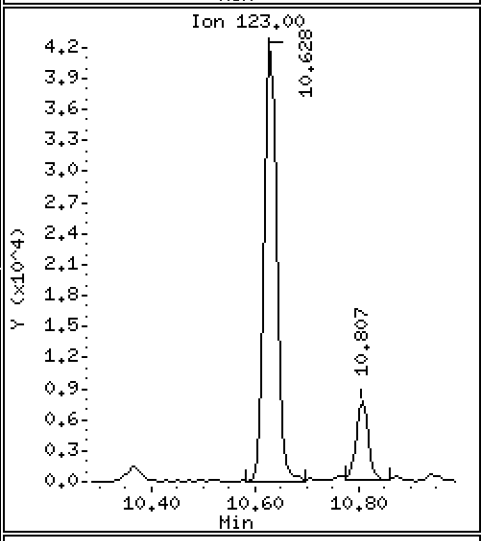
19 Nitrobenzene

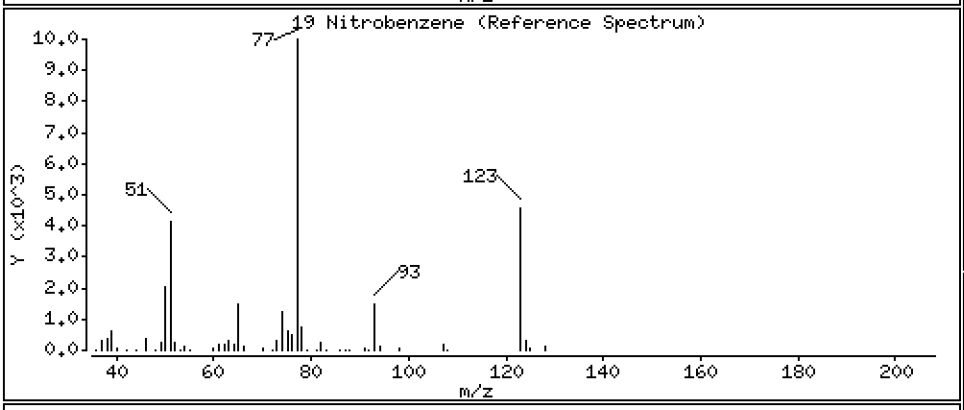
Concentration: 2.384 ug/mL

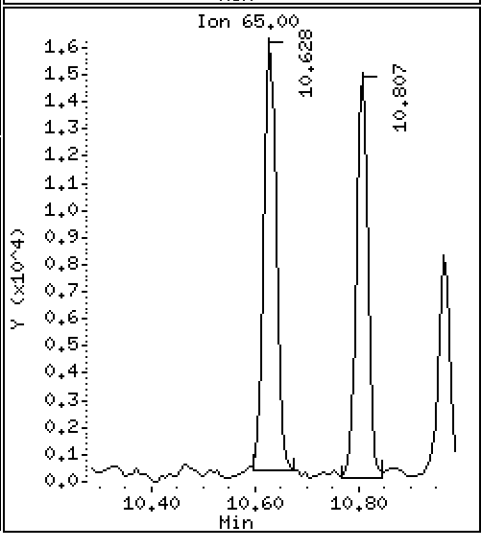


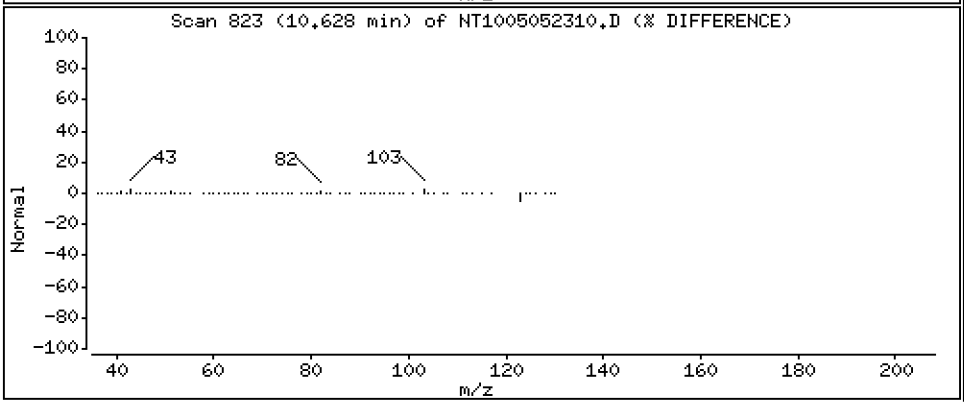












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

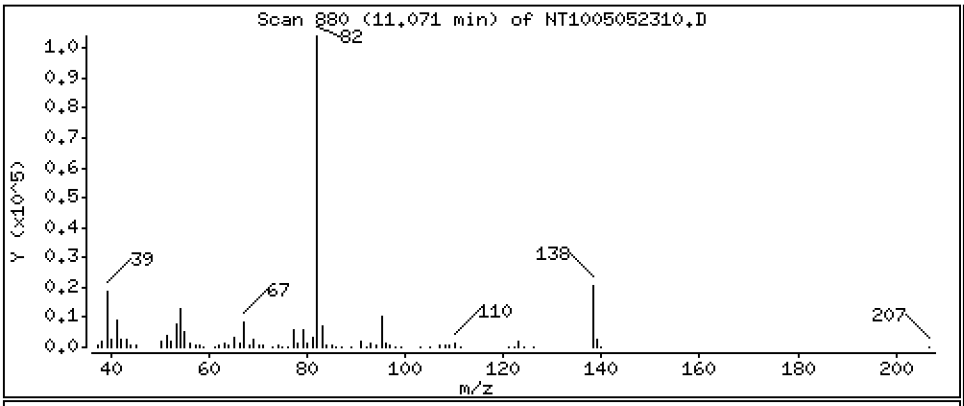
Operator: YZ

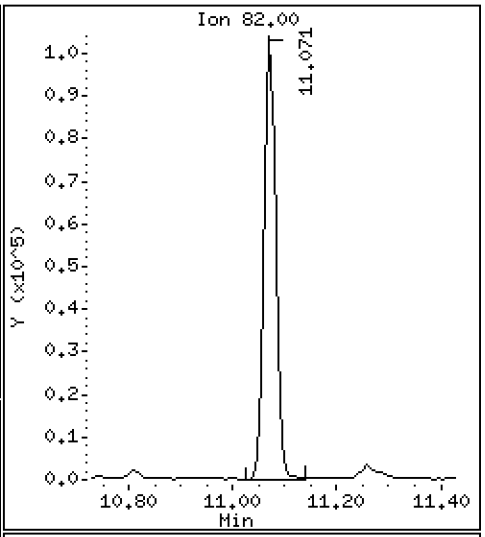
Column phase: ZB-5msi

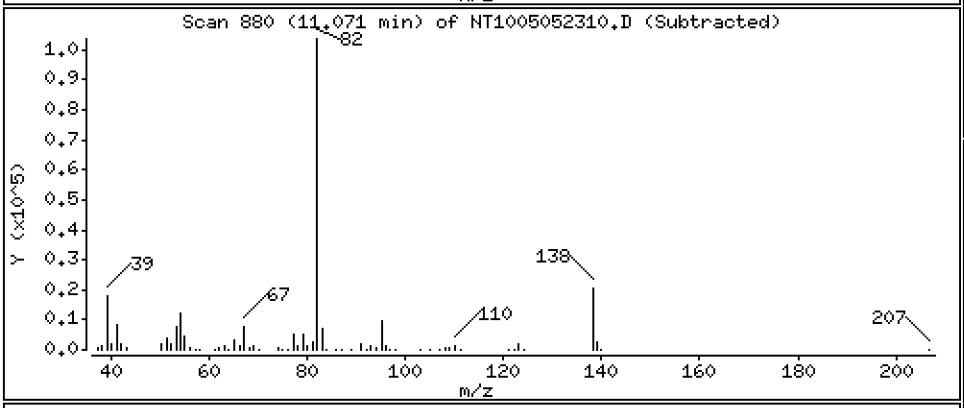
Column diameter: 0.25

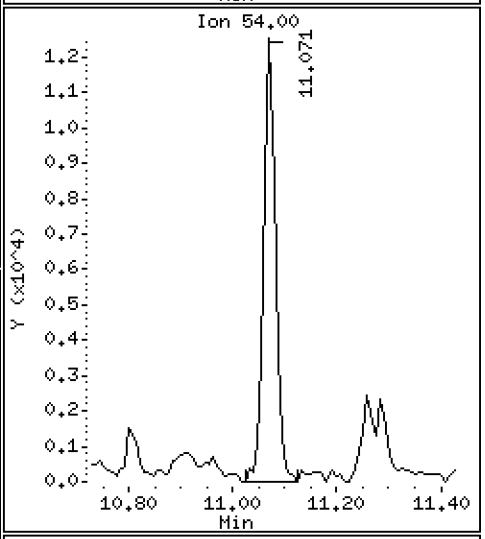
20 Isophorone

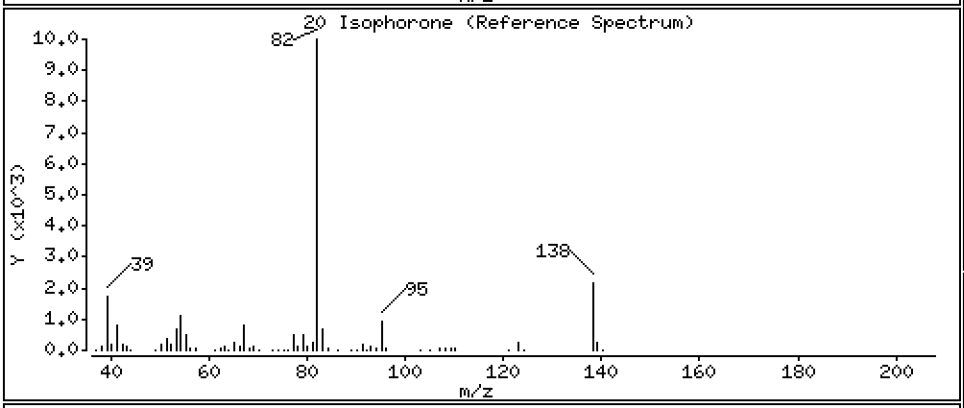
Concentration: 1.834 ug/mL

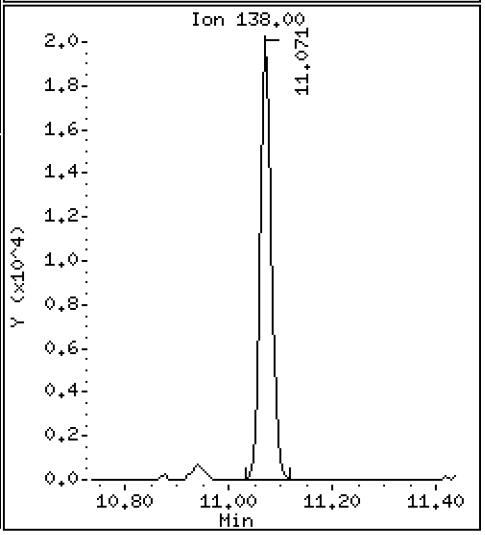


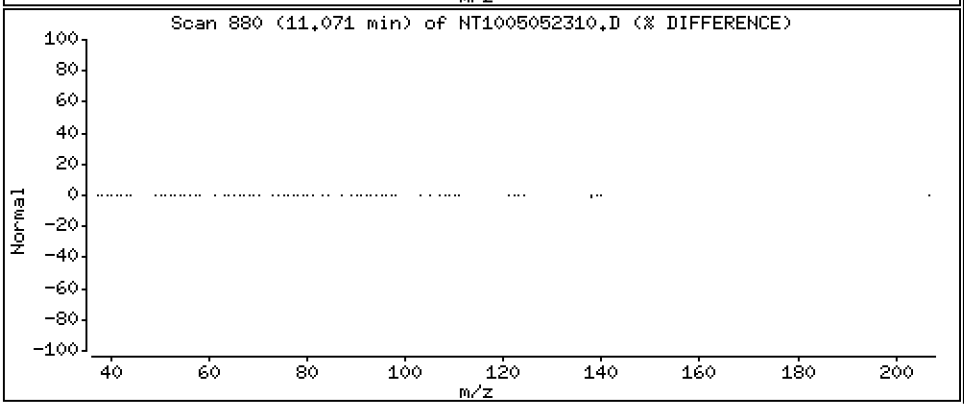












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

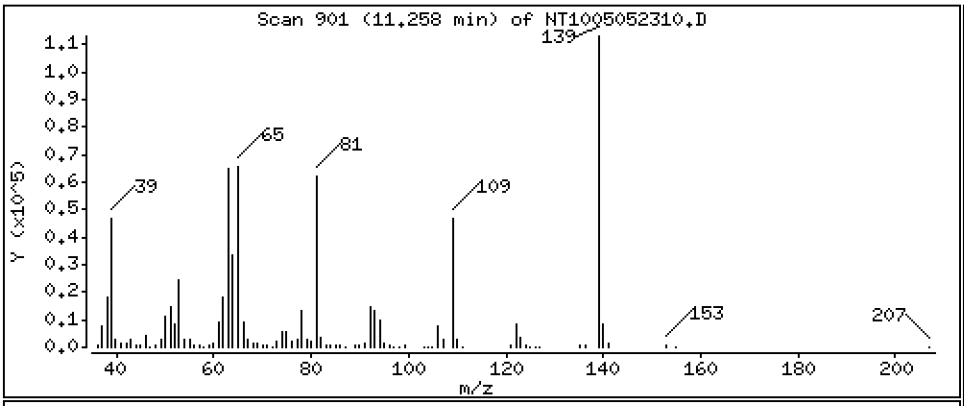
Operator: YZ

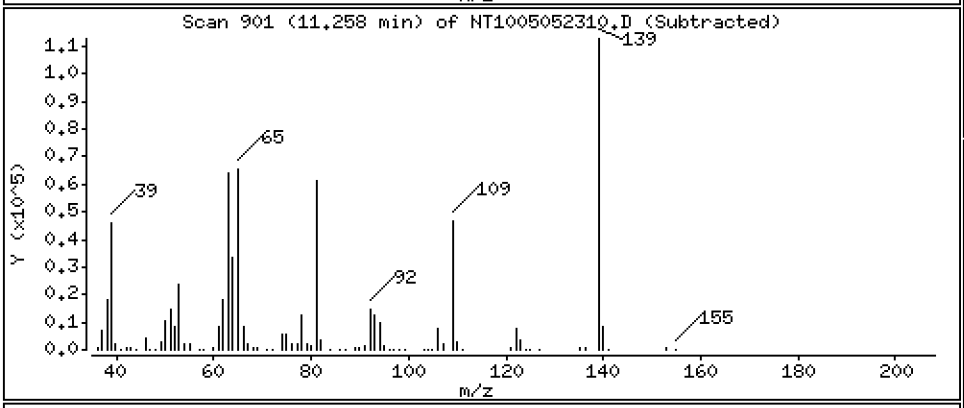
Column phase: ZB-5msi

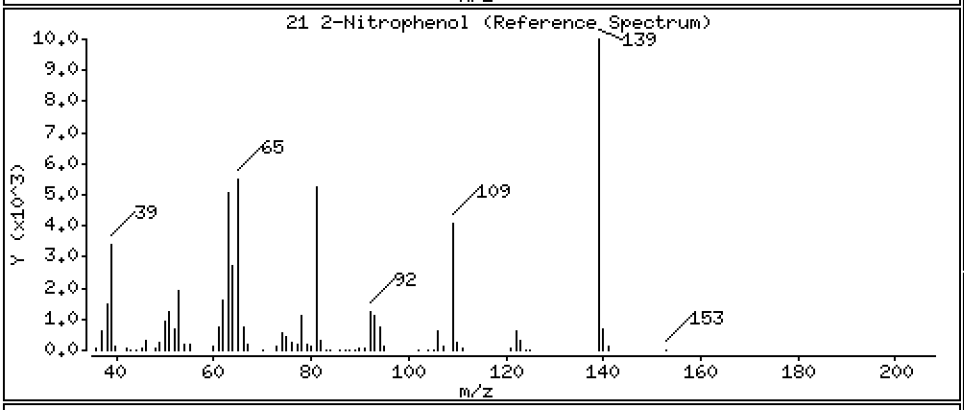
Column diameter: 0.25

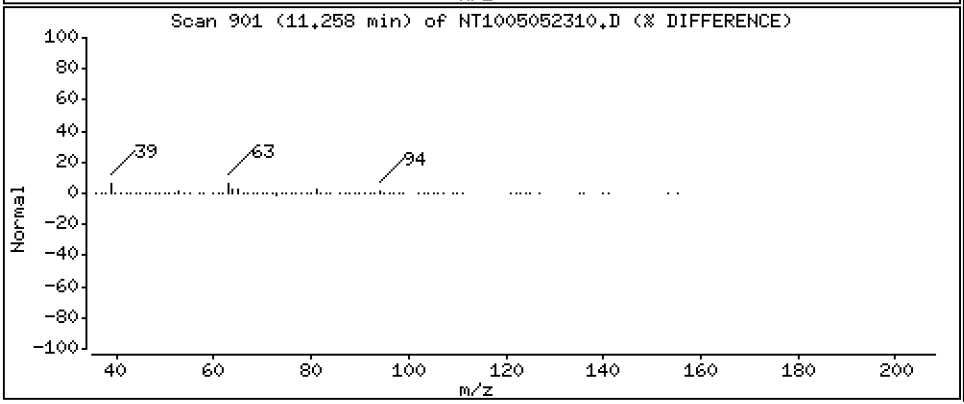
21 2-Nitrophenol

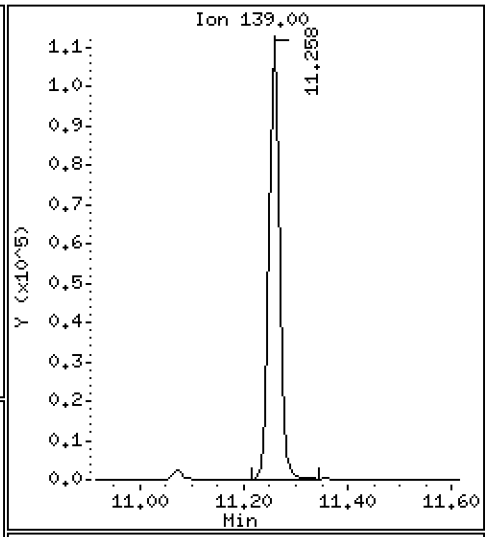
Concentration: 4.335 ug/mL

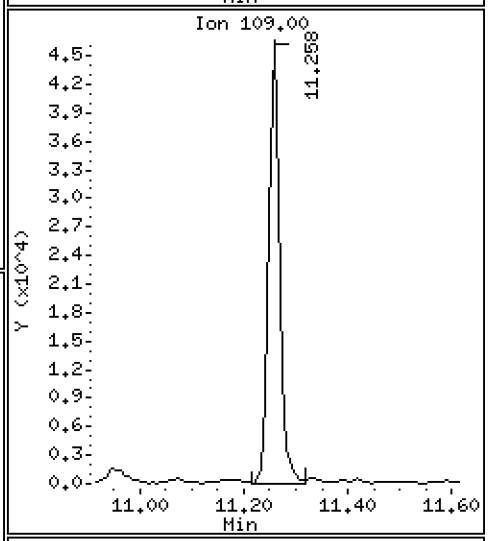


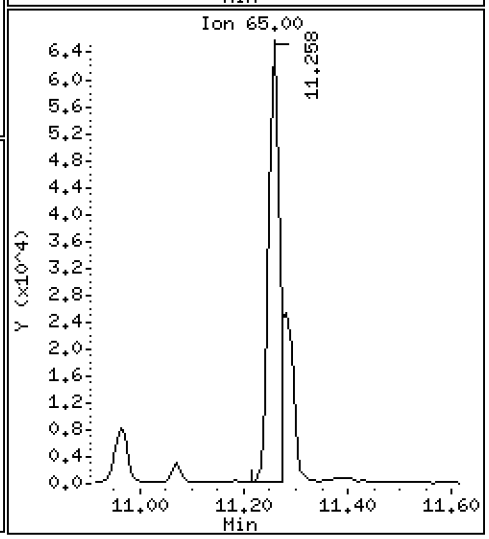












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

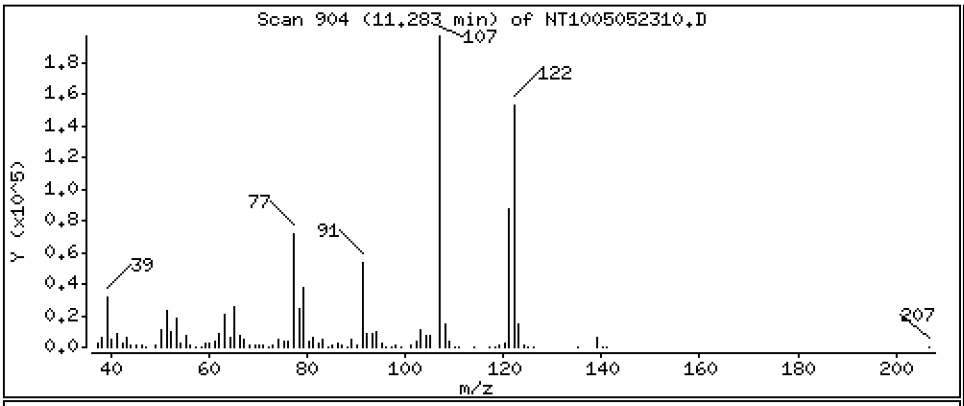
Operator: YZ

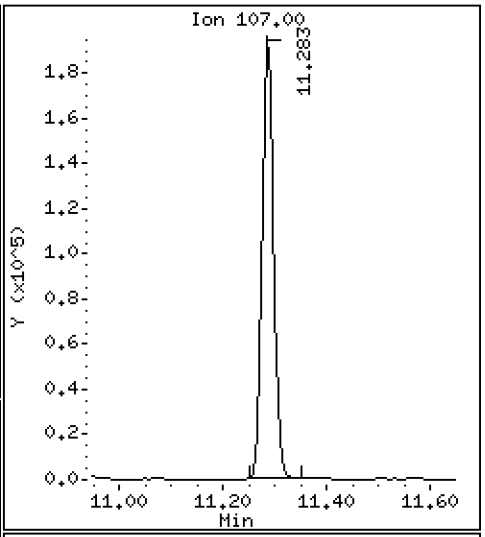
Column phase: ZB-5msi

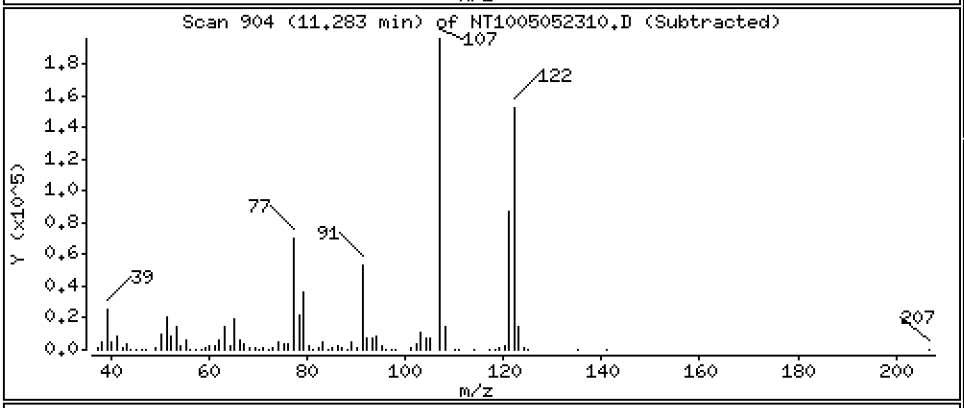
Column diameter: 0.25

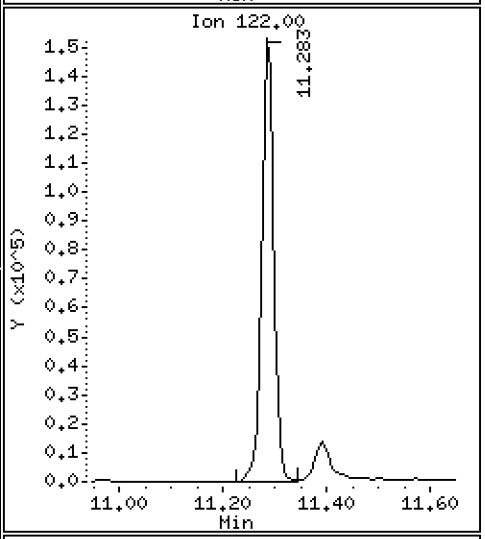
22 2,4-Dimethylphenol

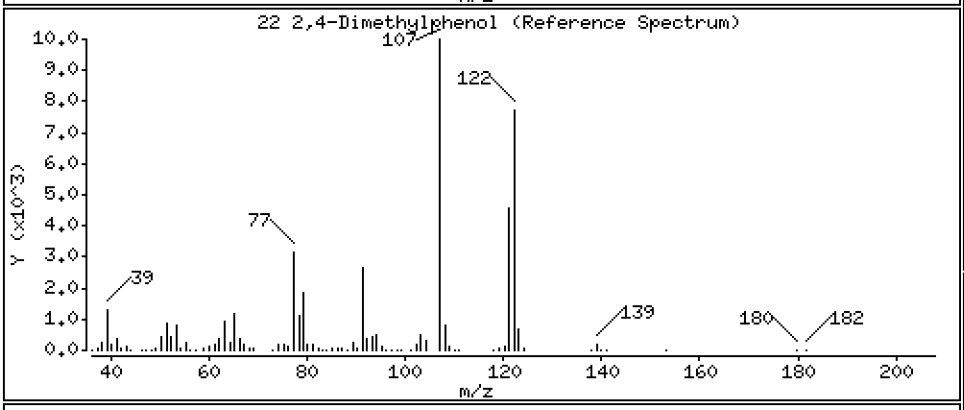
Concentration: 4.323 ug/mL

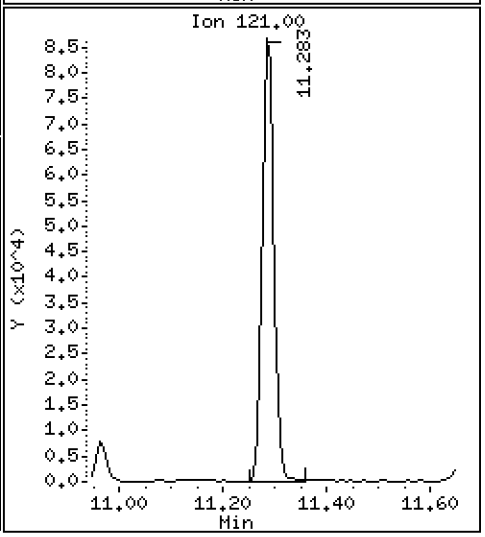


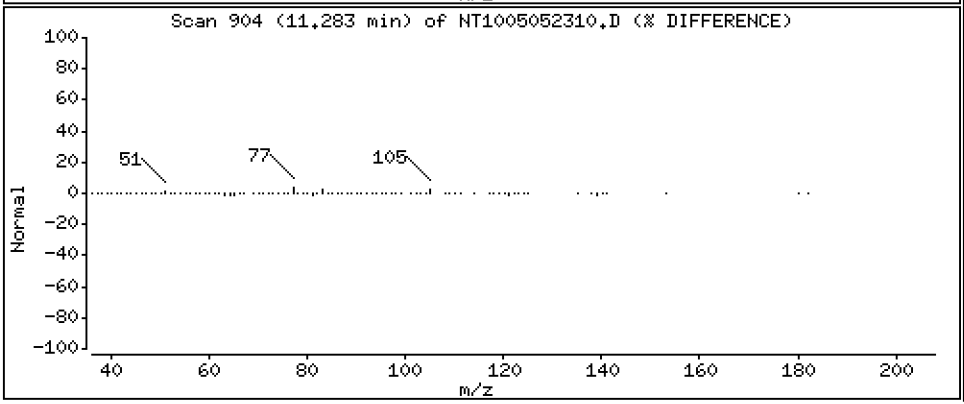












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

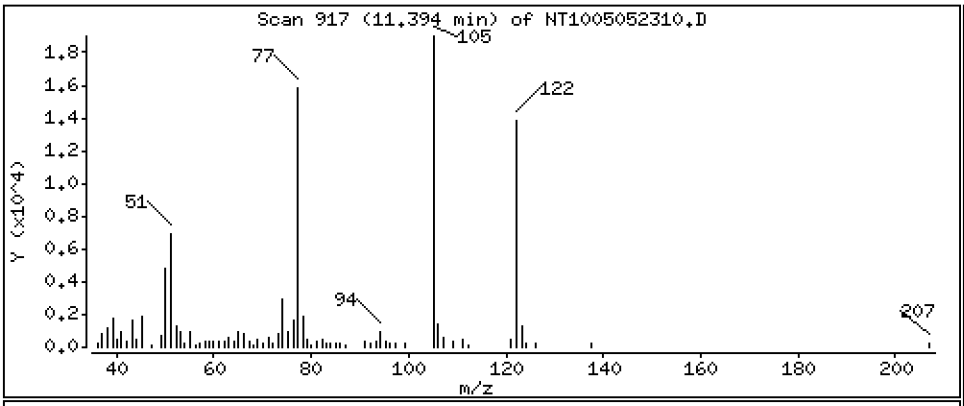
Operator: YZ

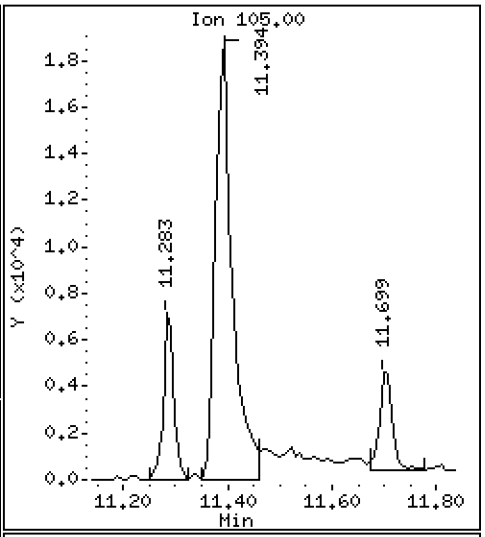
Column phase: ZB-5msi

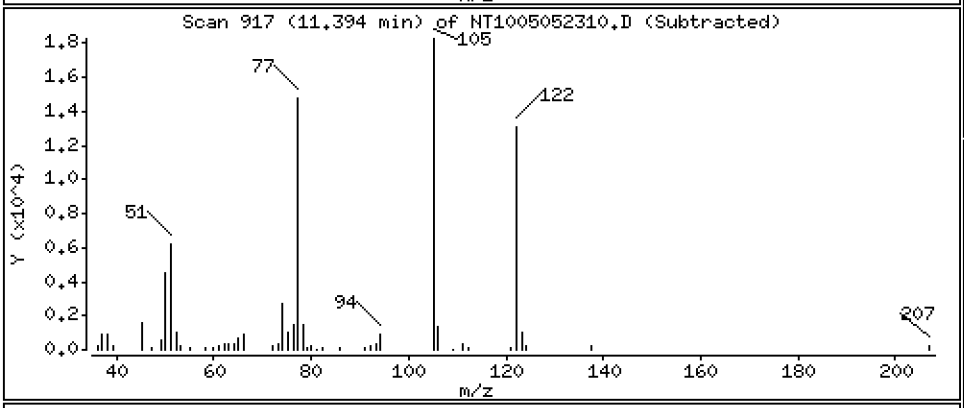
Column diameter: 0.25

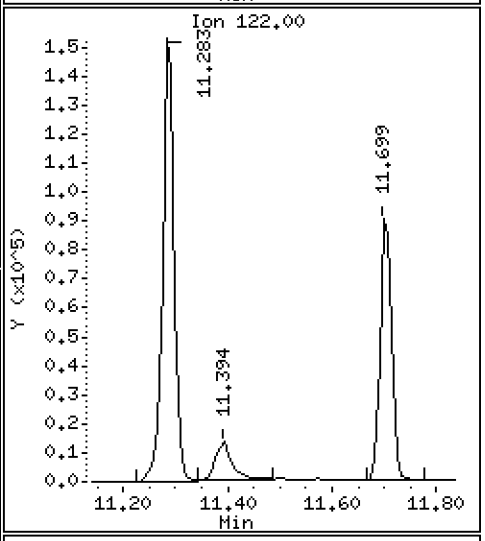
24 Benzoic acid

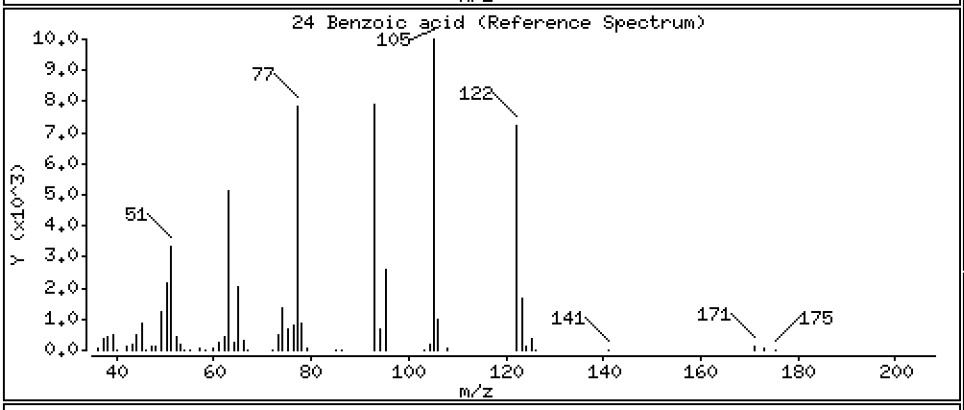
Concentration: 0.9285 ug/mL

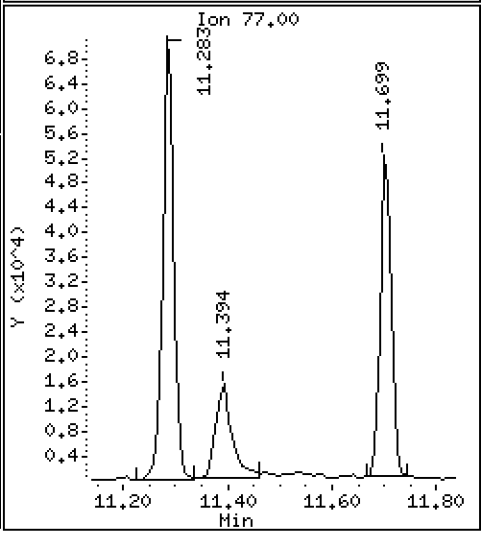


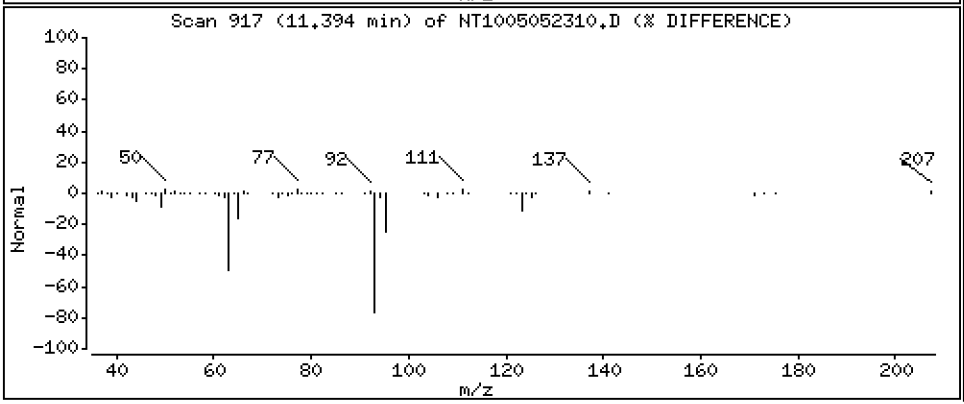












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

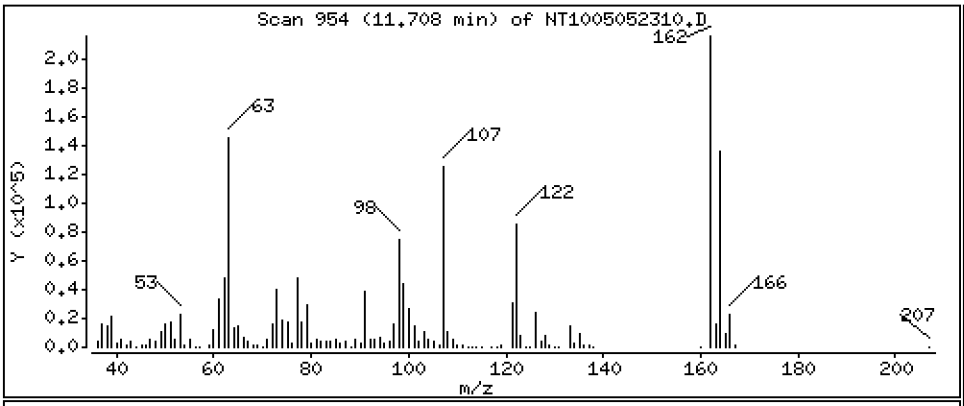
Operator: YZ

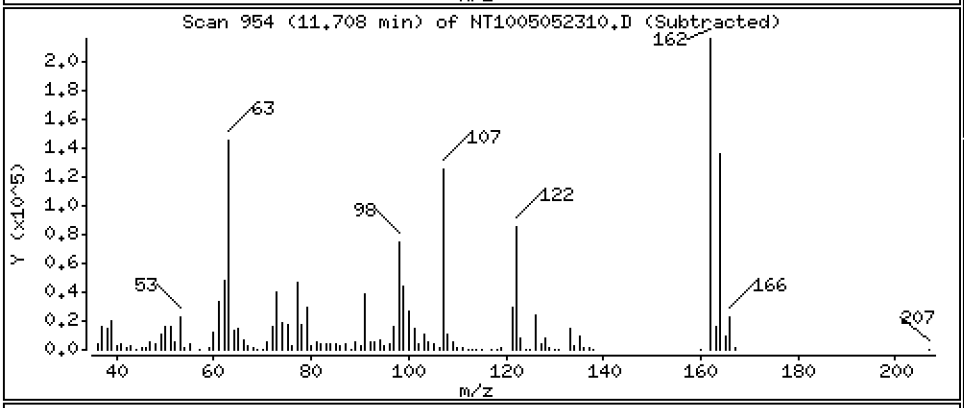
Column phase: ZB-5msi

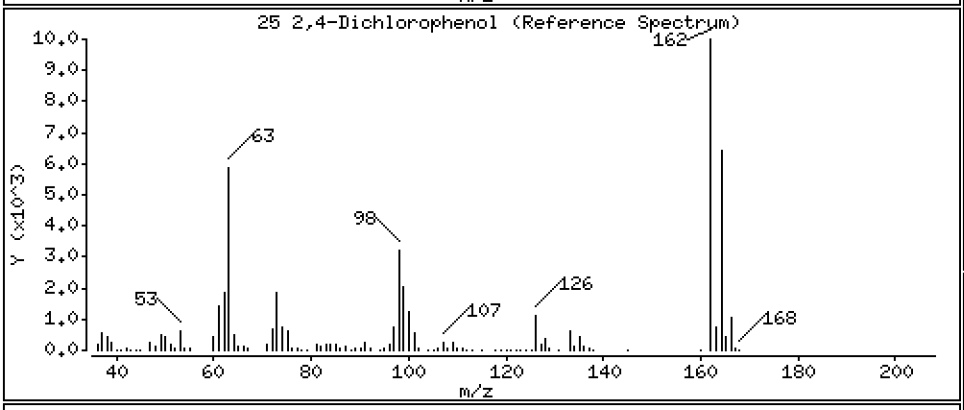
Column diameter: 0.25

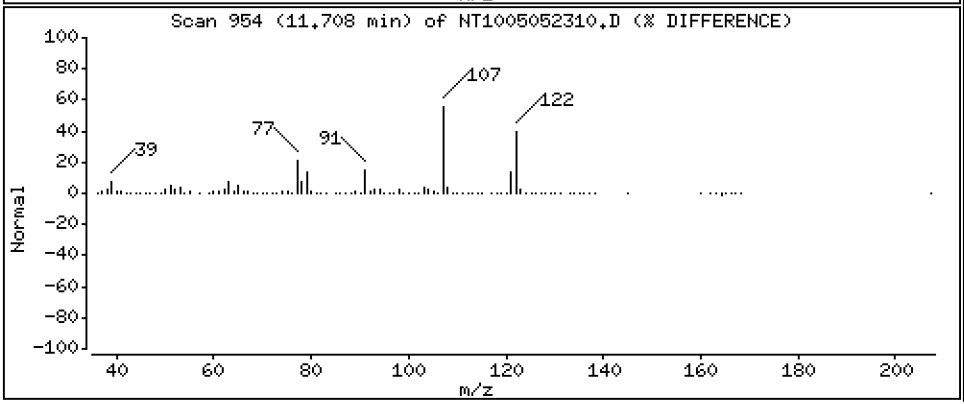
25 2,4-Dichlorophenol

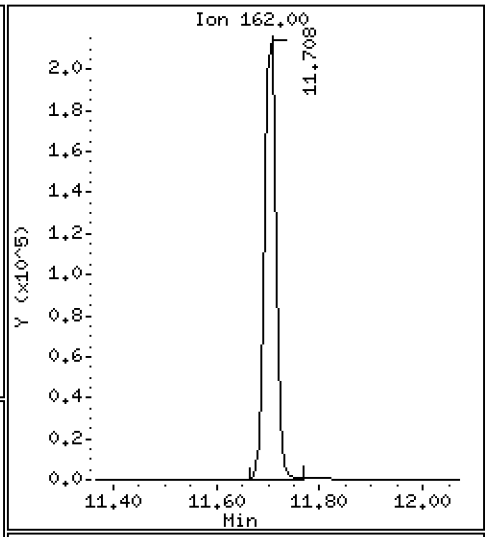
Concentration: 6.304 ug/mL

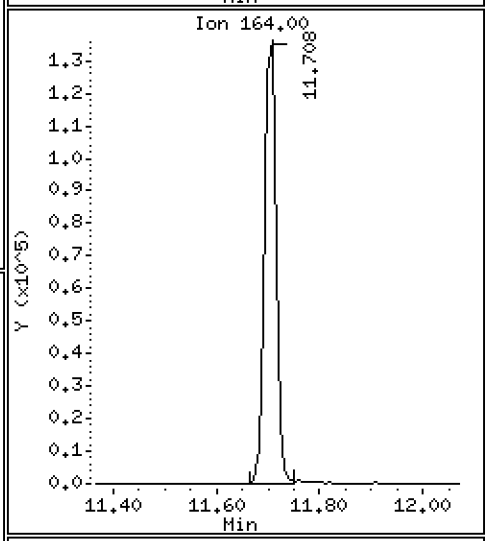


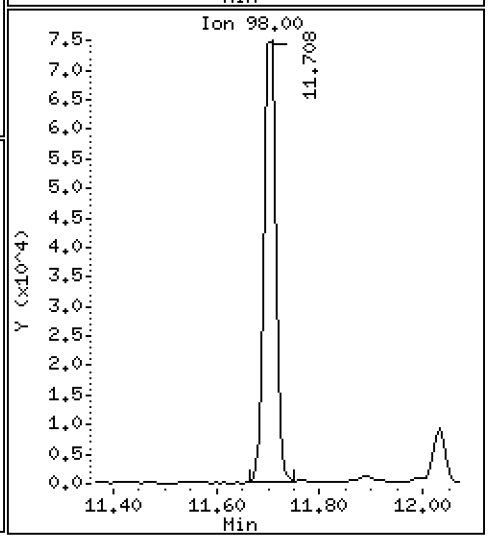












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

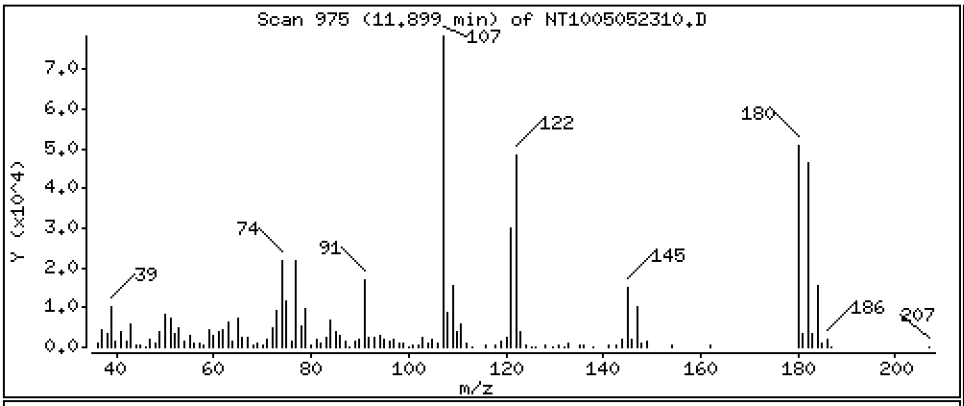
Operator: YZ

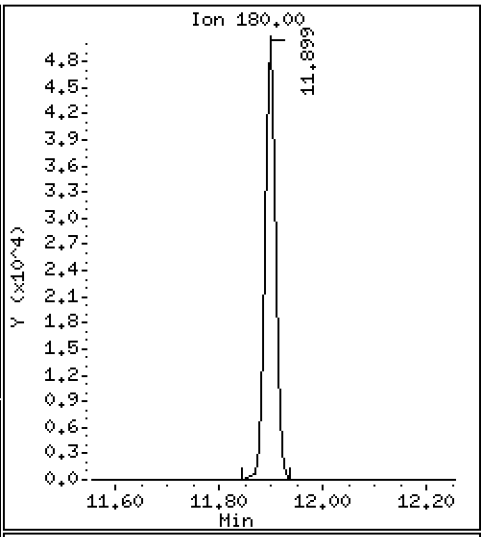
Column phase: ZB-5msi

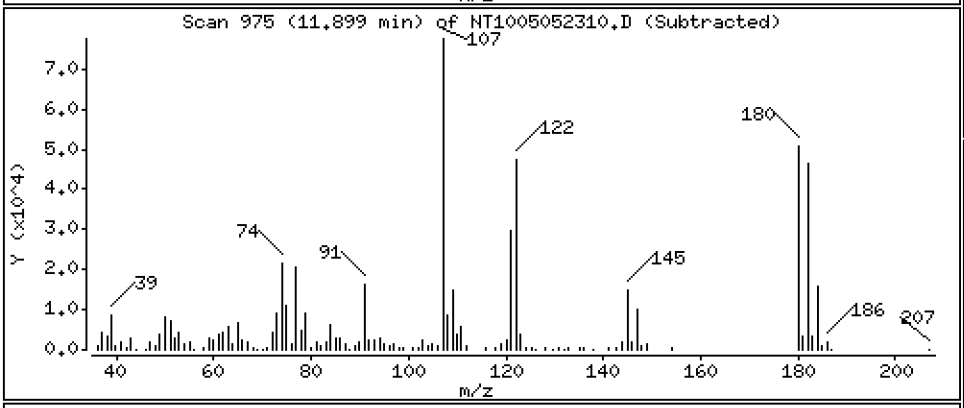
Column diameter: 0.25

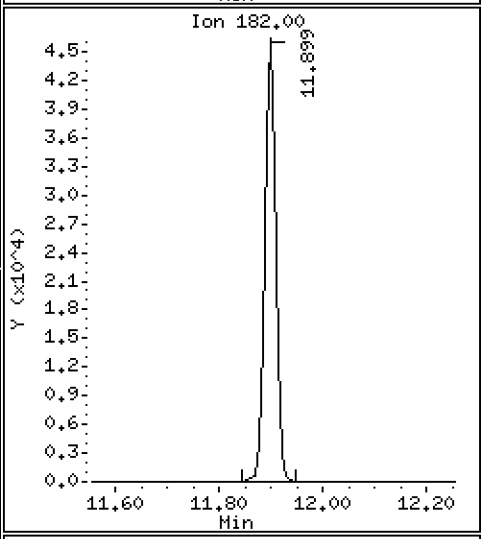
26 1,2,4-Trichlorobenzene

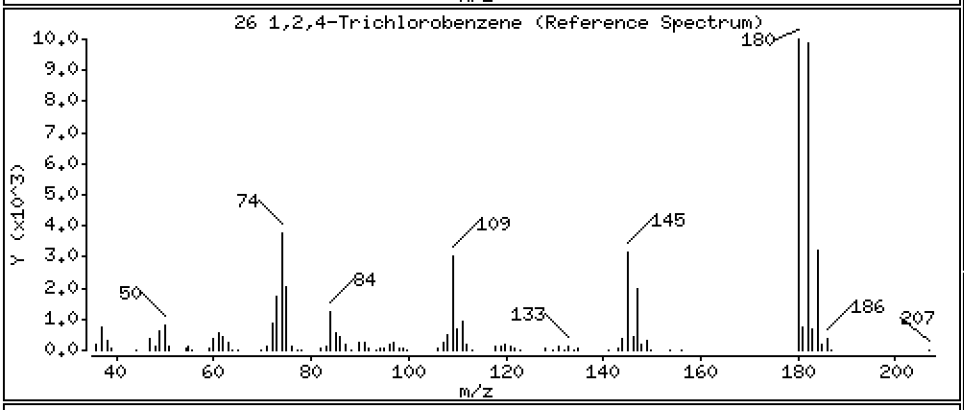
Concentration: 1.200 ug/mL

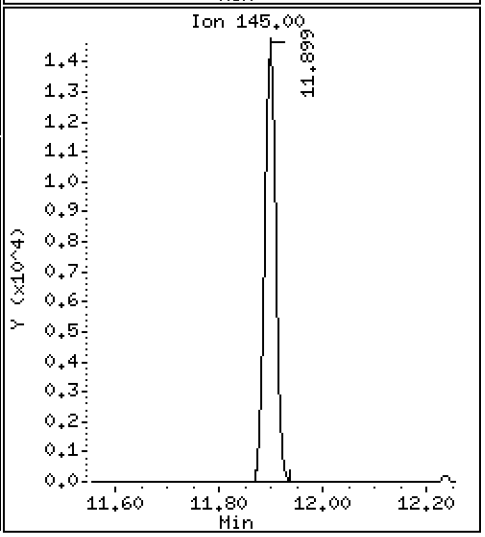


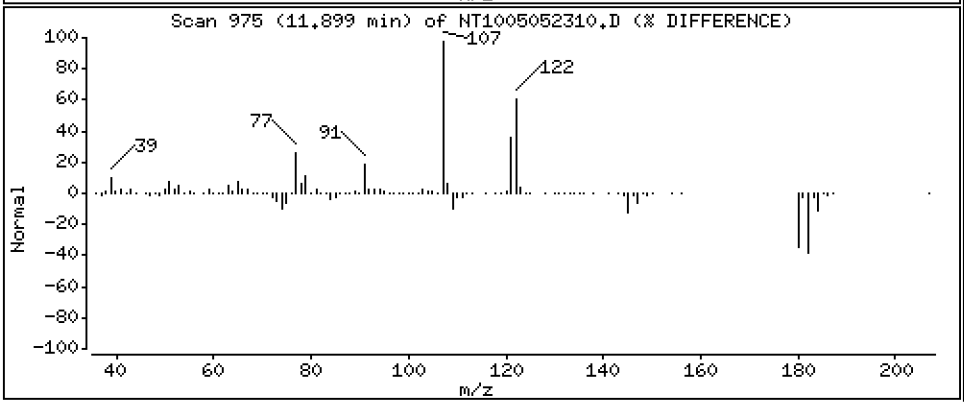












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

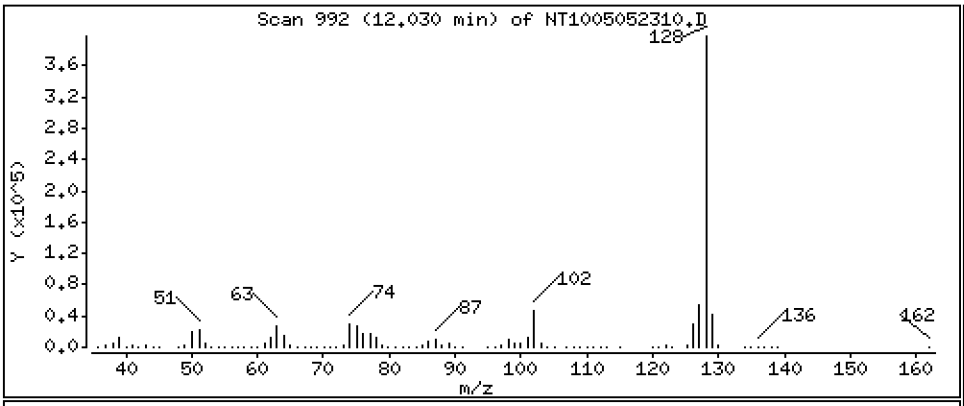
Operator: YZ

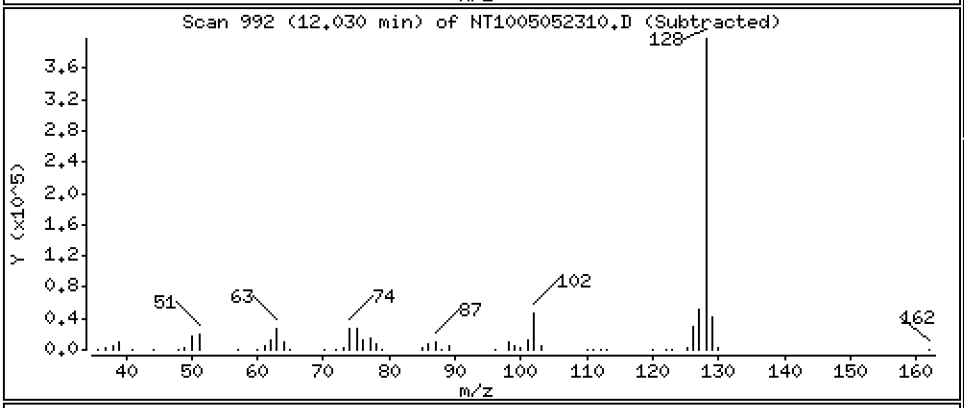
Column phase: ZB-5msi

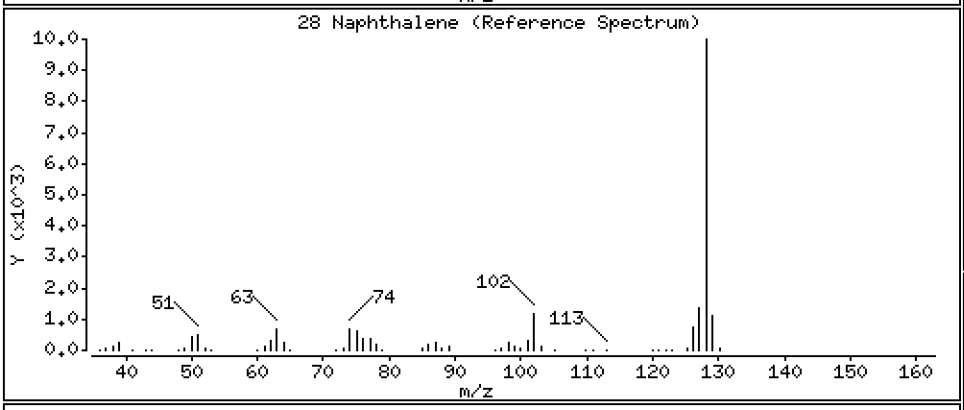
Column diameter: 0.25

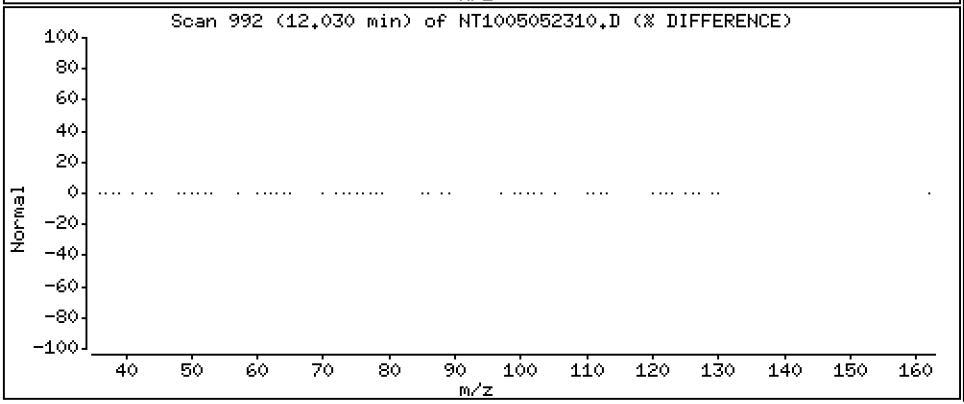
28 Naphthalene

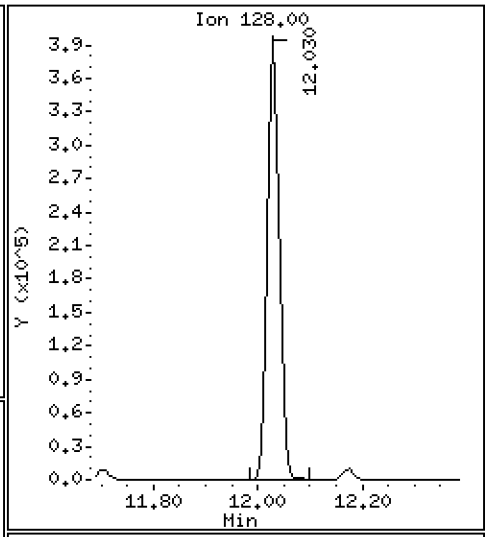
Concentration: 3.417 ug/mL

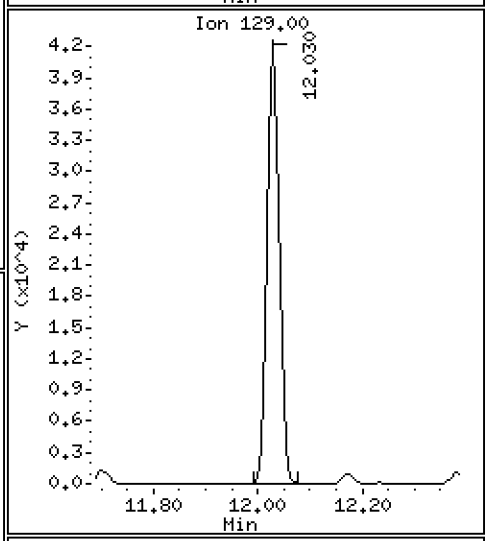


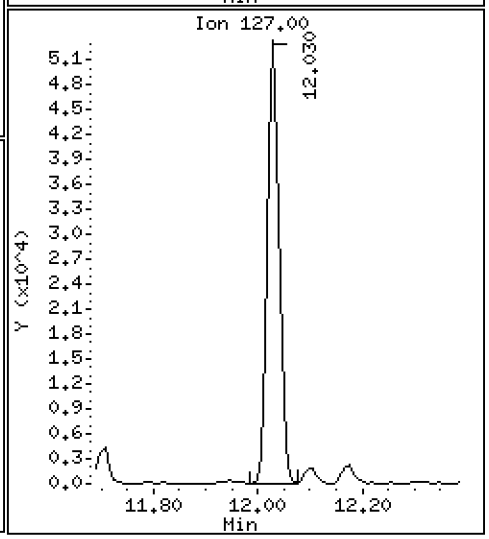












Date : 05-MAY-2023 16:36

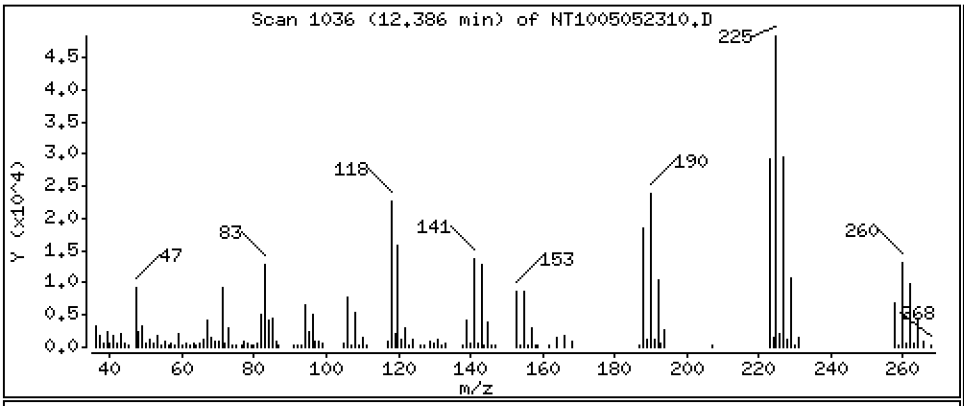
Client ID: Instrument: nt10.i

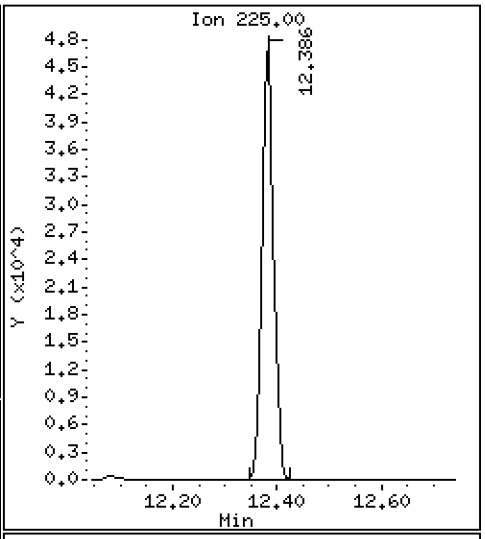
Sample Info: BLD0329-SRM1

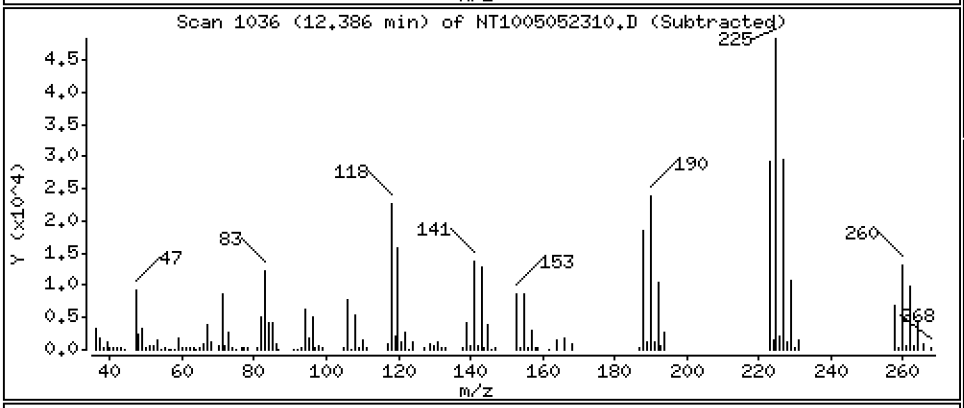
Operator: YZ

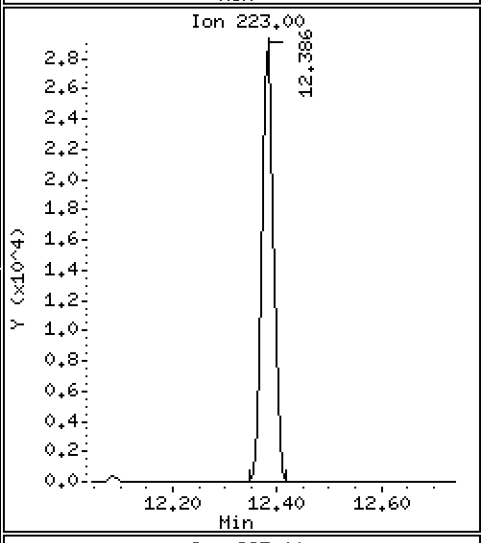
Column phase: ZB-5msi Column diameter: 0.25

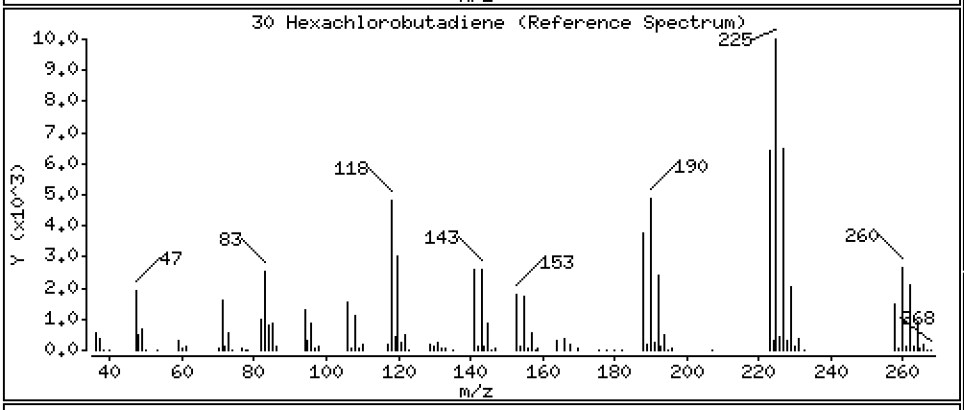
30 Hexachlorobutadiene Concentration: 1.717 ug/mL

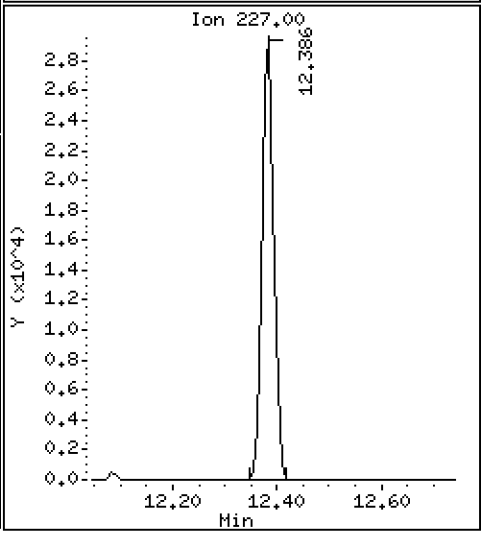


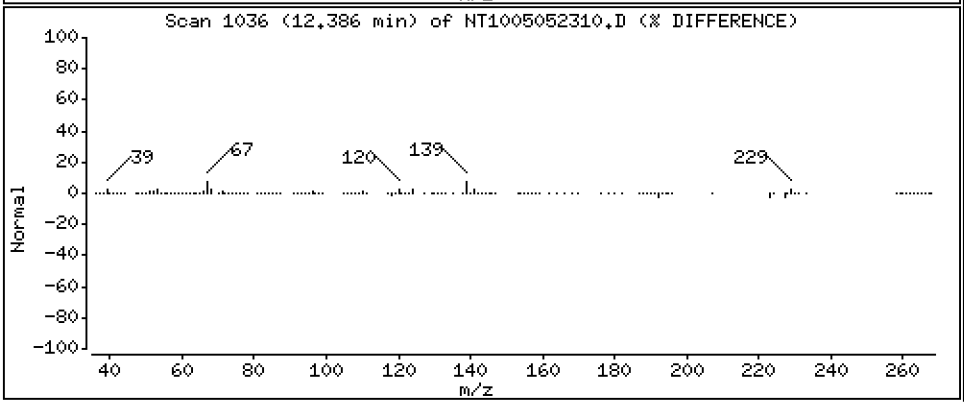












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

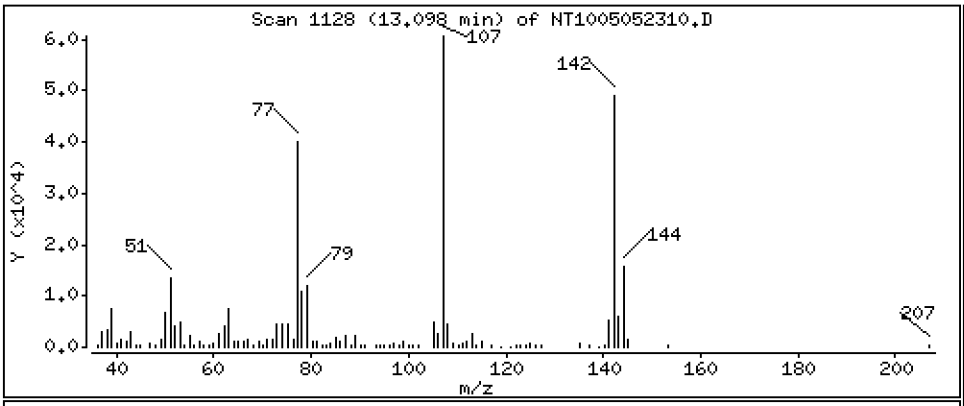
Operator: YZ

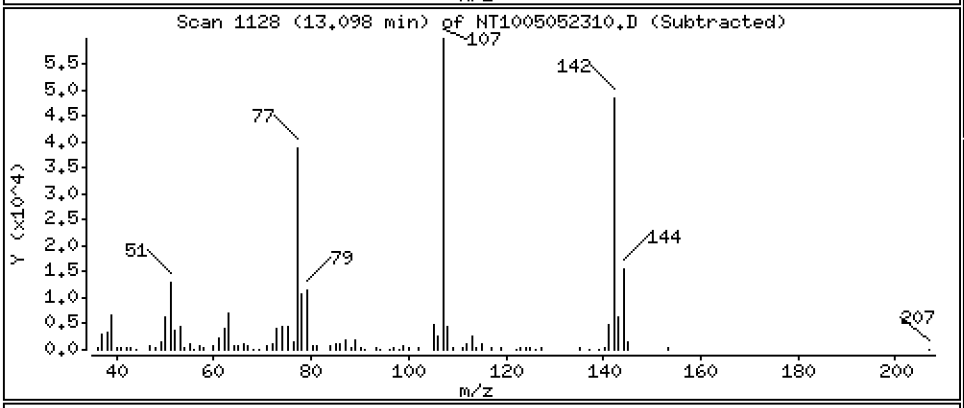
Column phase: ZB-5msi

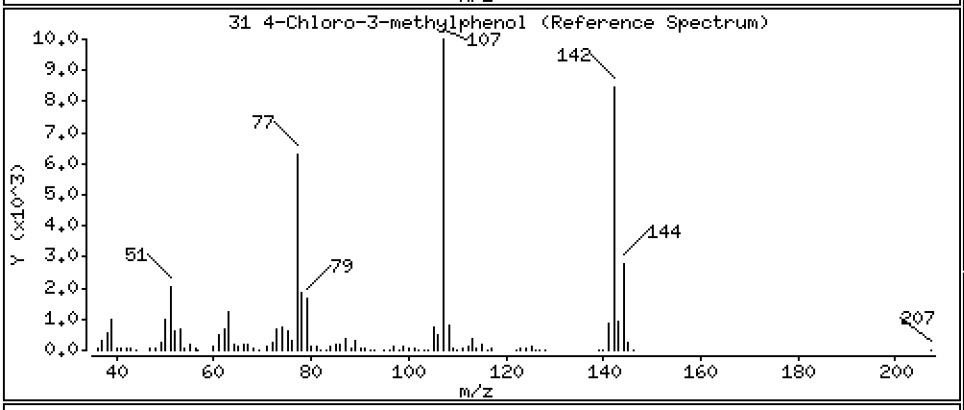
Column diameter: 0.25

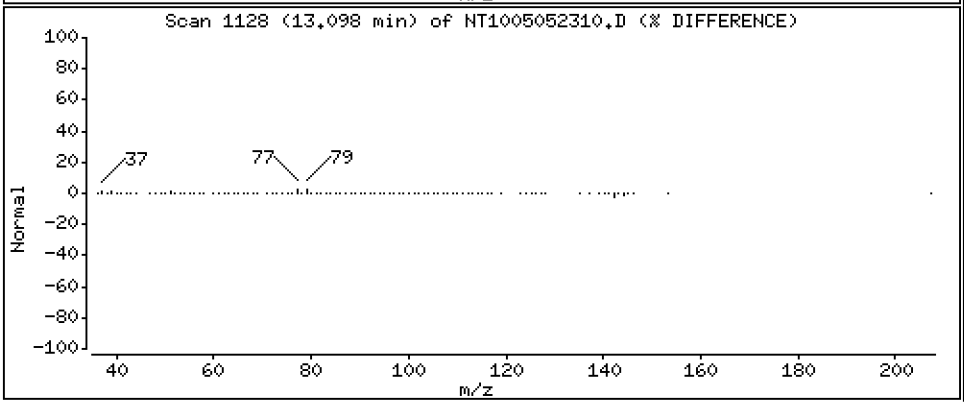
31 4-Chloro-3-methylphenol

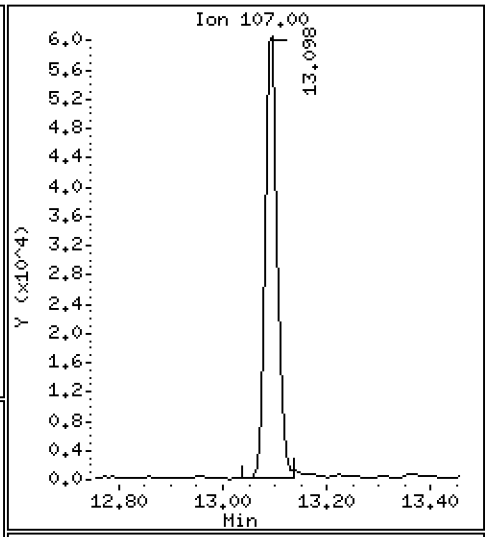
Concentration: 1.686 ug/mL

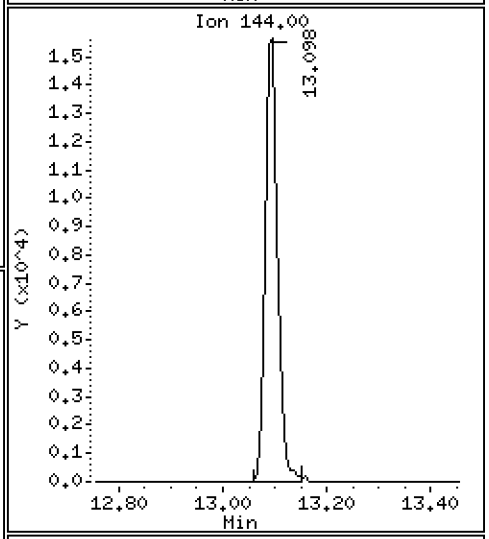


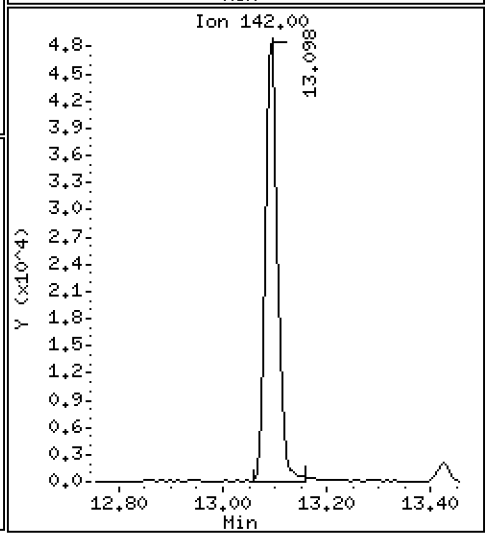












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

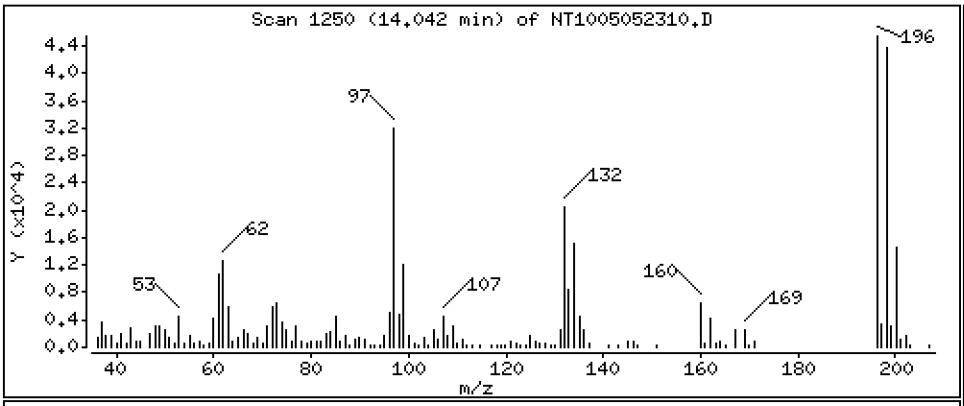
Operator: YZ

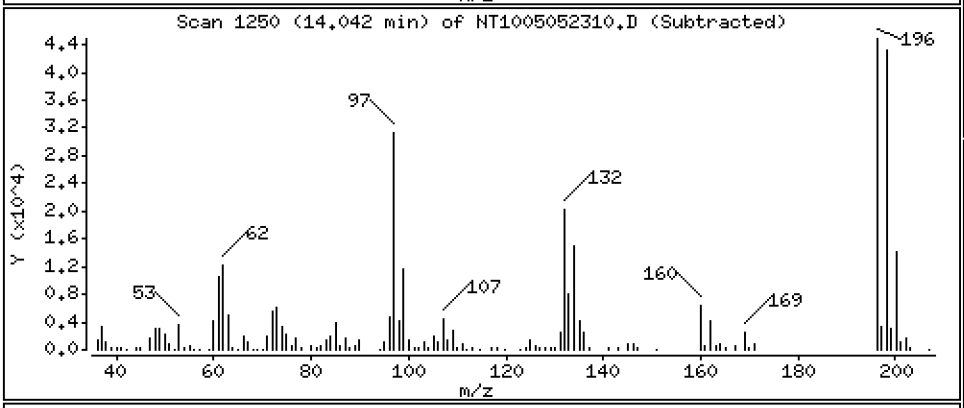
Column phase: ZB-5msi

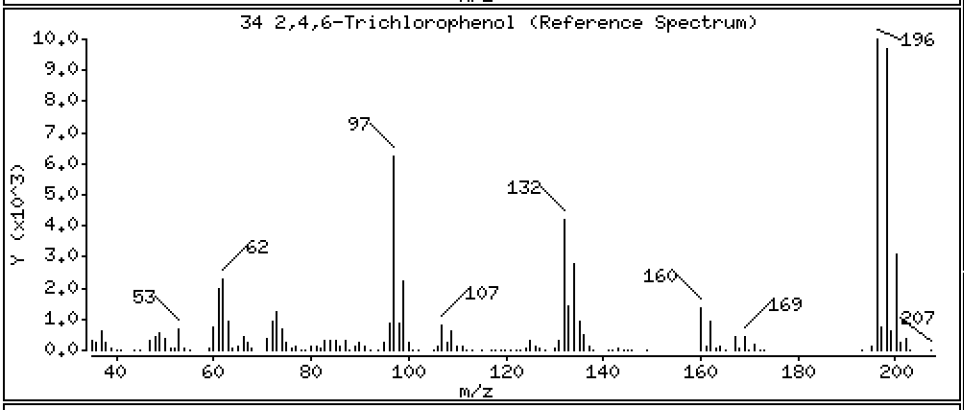
Column diameter: 0.25

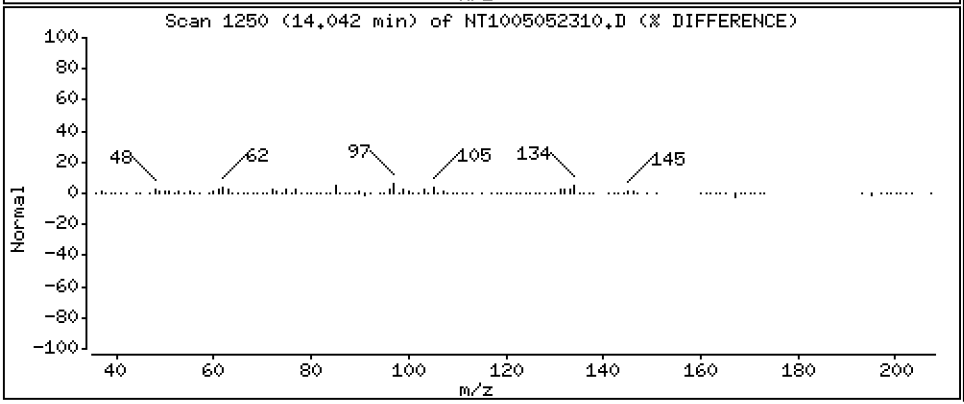
34 2,4,6-Trichlorophenol

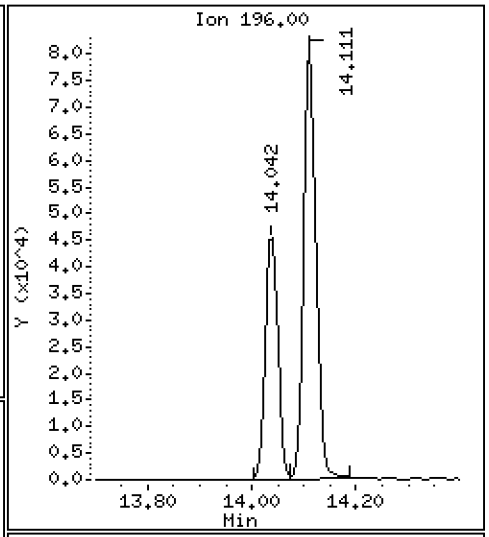
Concentration: 1.684 ug/mL

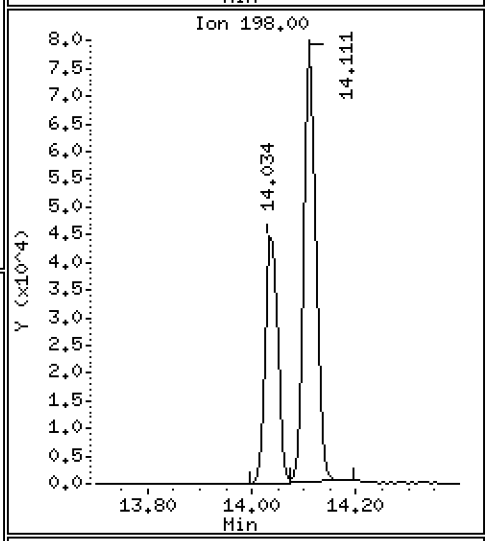


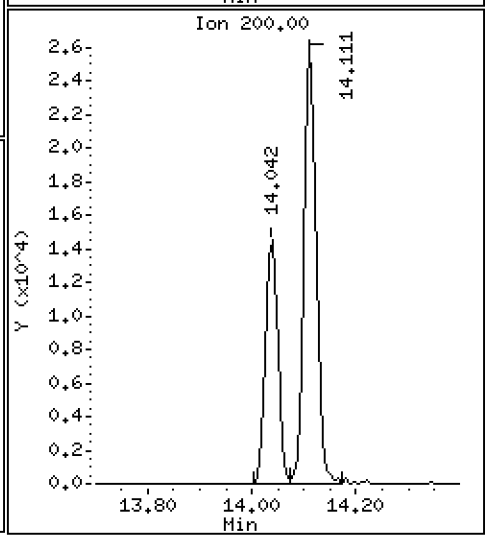












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

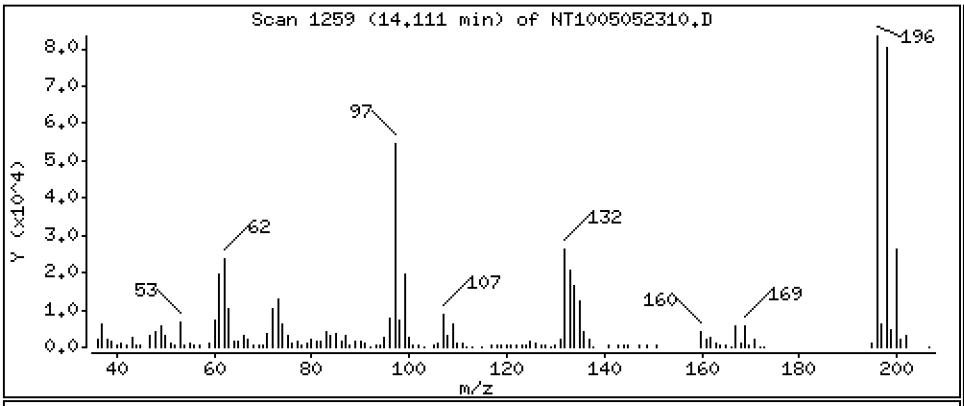
Operator: YZ

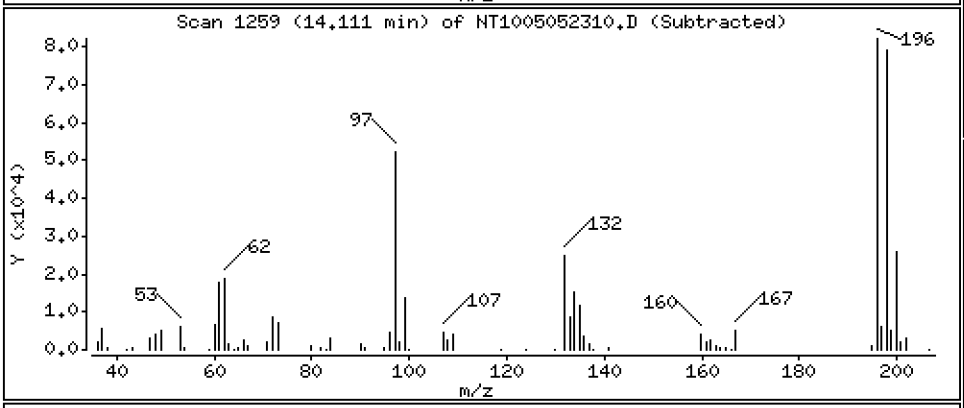
Column phase: ZB-5msi

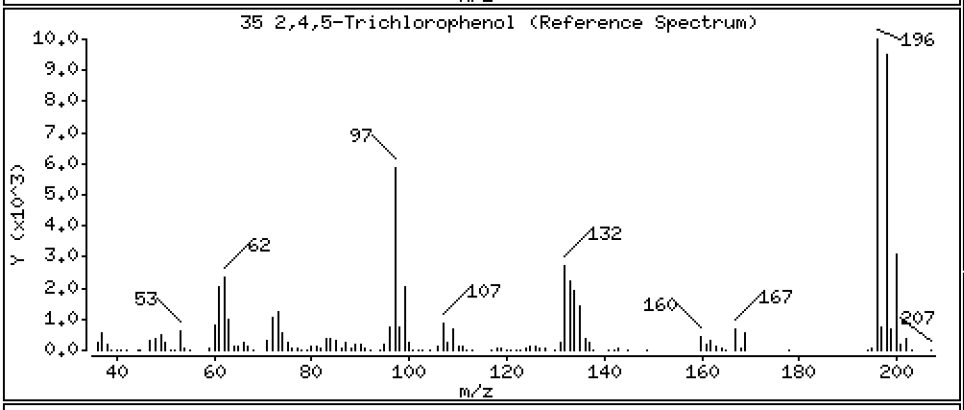
Column diameter: 0.25

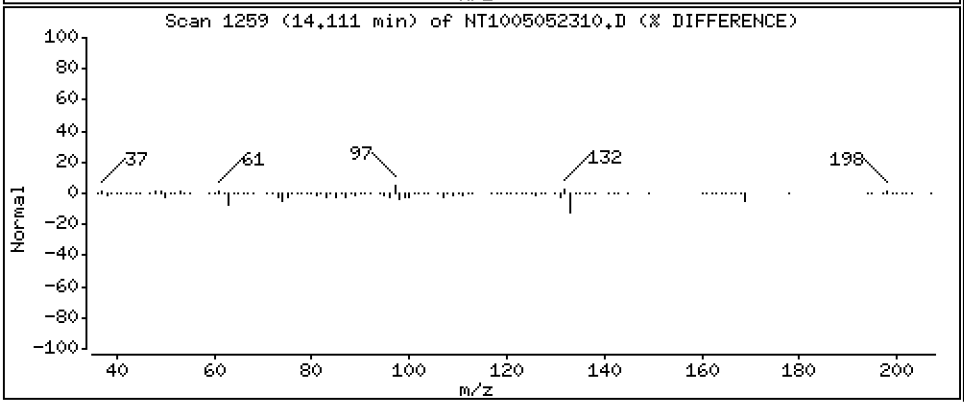
35 2,4,5-Trichlorophenol

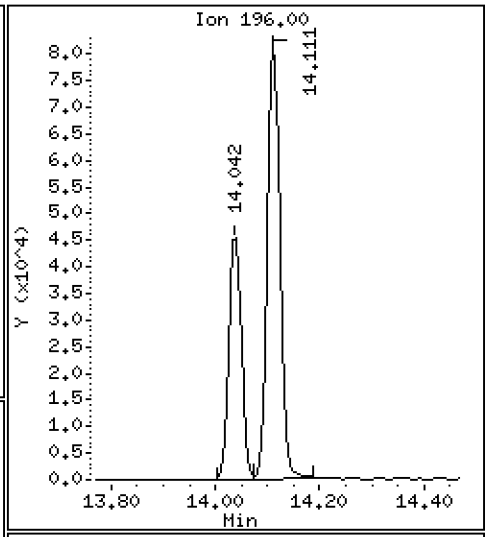
Concentration: 2.725 ug/mL

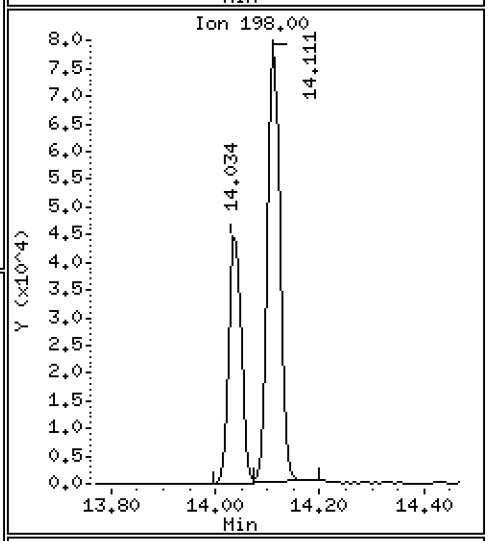


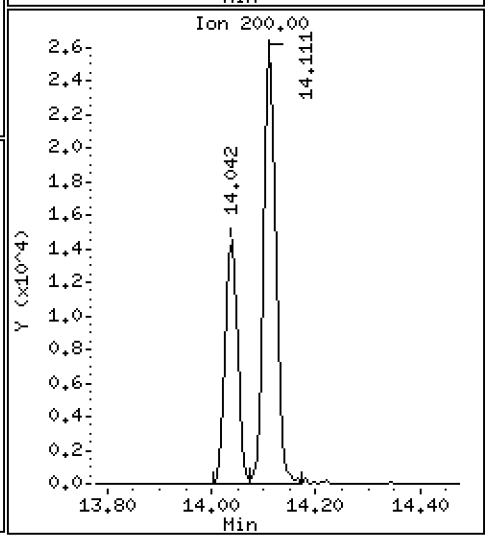












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

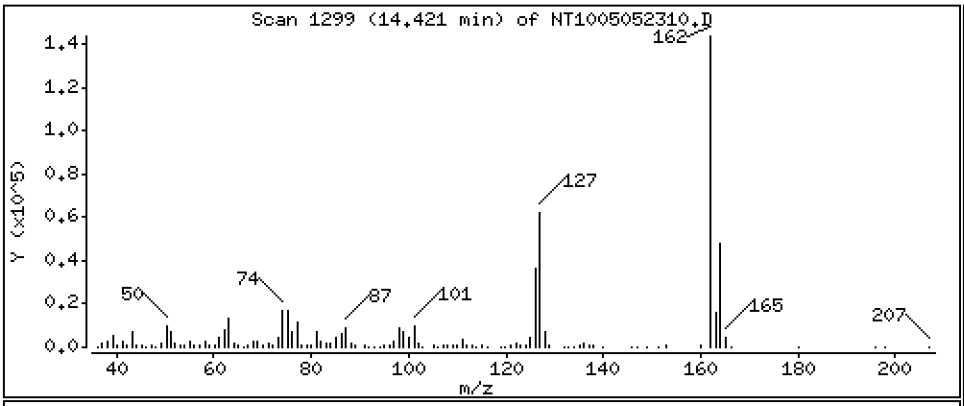
Operator: YZ

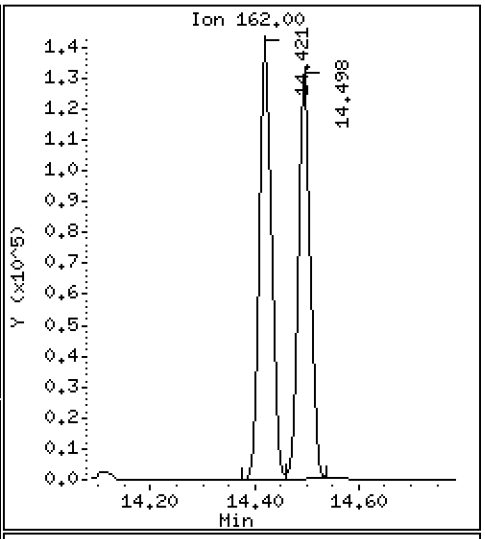
Column phase: ZB-5msi

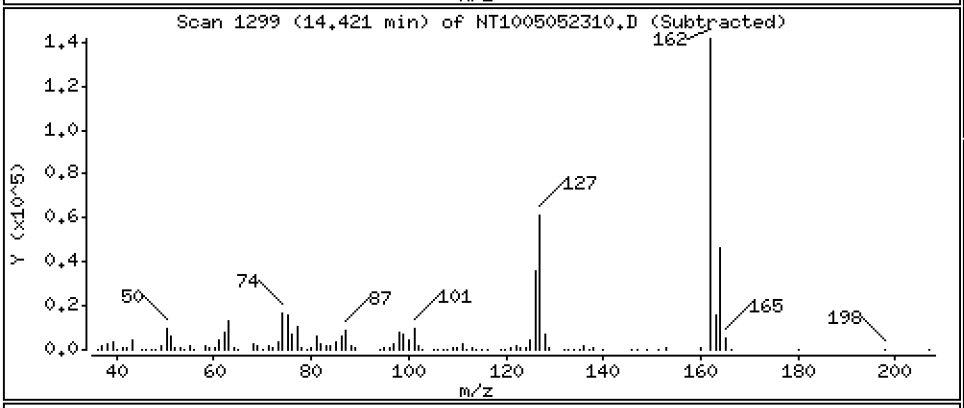
Column diameter: 0.25

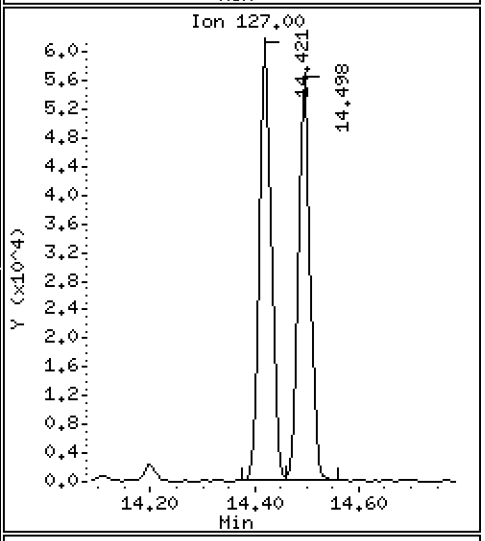
37 2-Chloronaphthalene

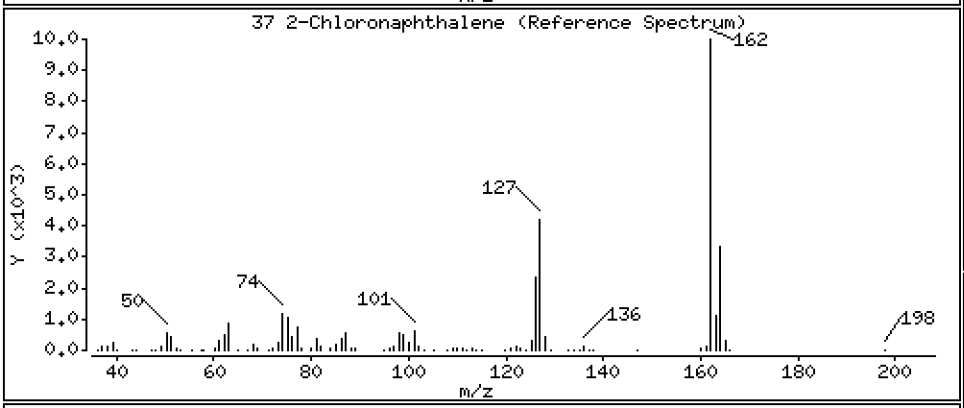
Concentration: 1.842 ug/mL

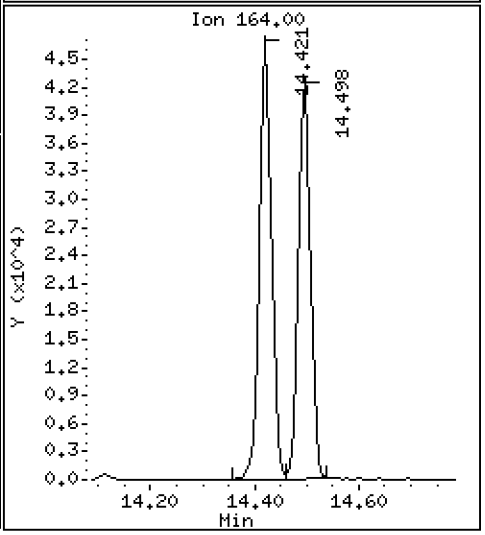


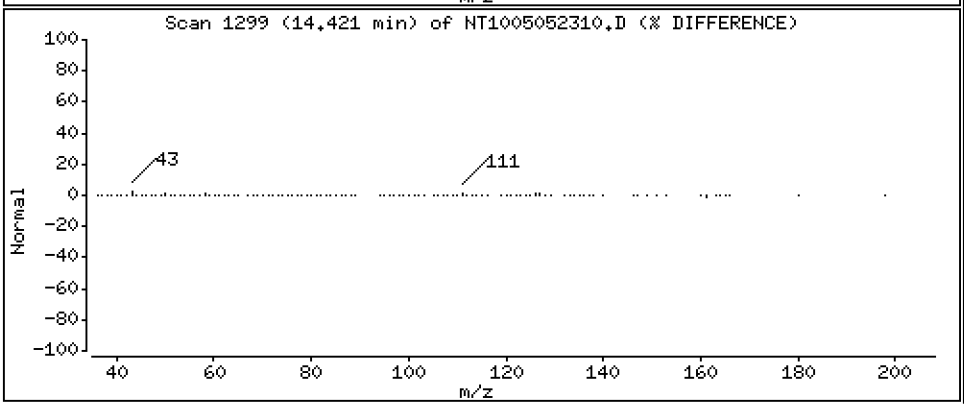












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

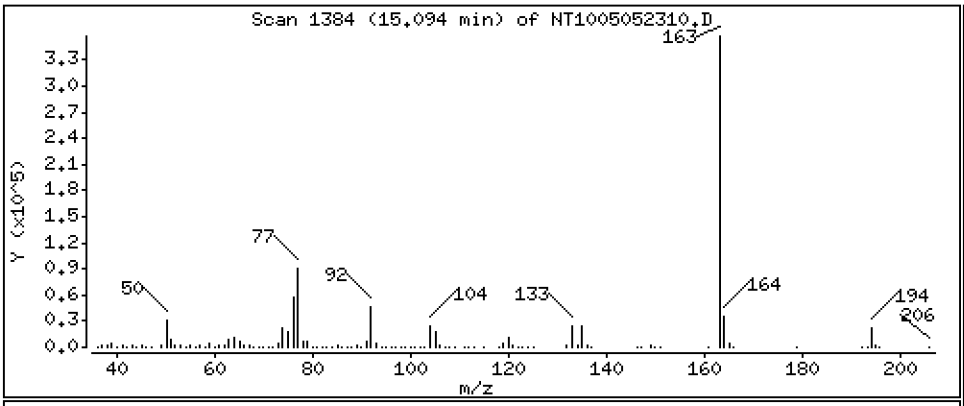
Operator: YZ

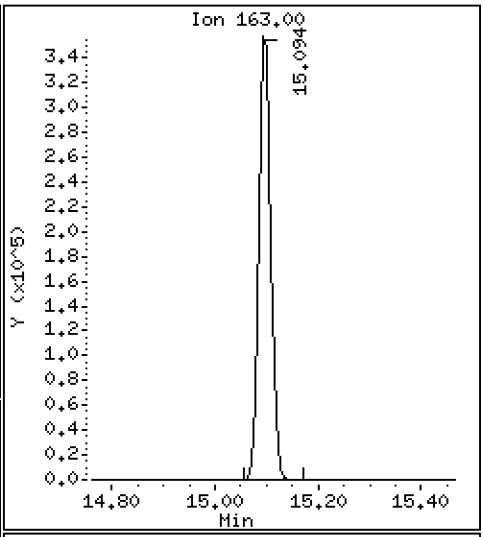
Column phase: ZB-5msi

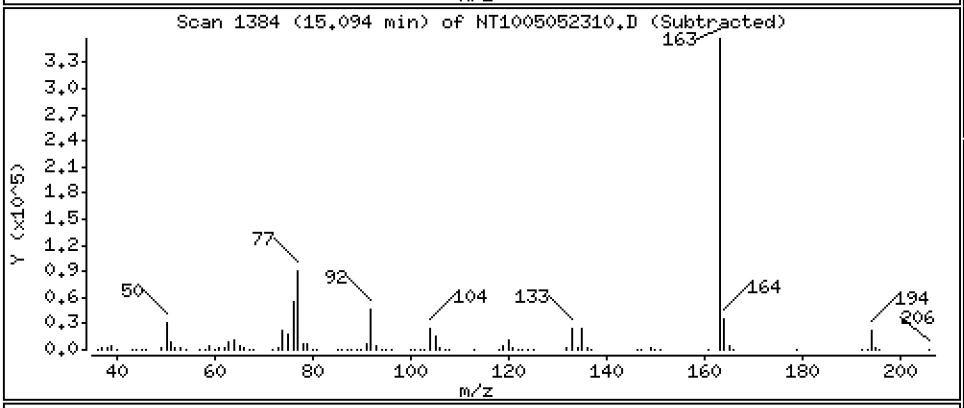
Column diameter: 0.25

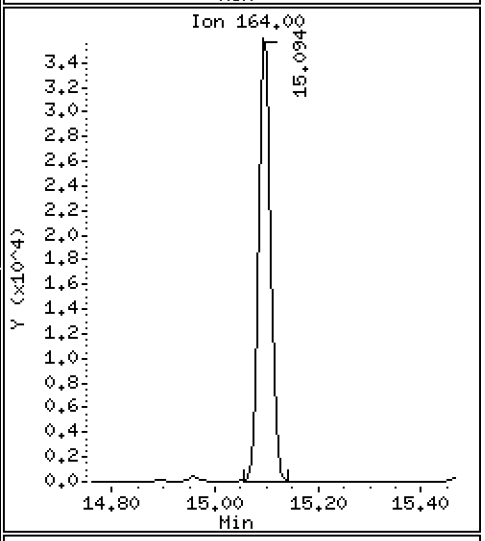
39 Dimethylphthalate

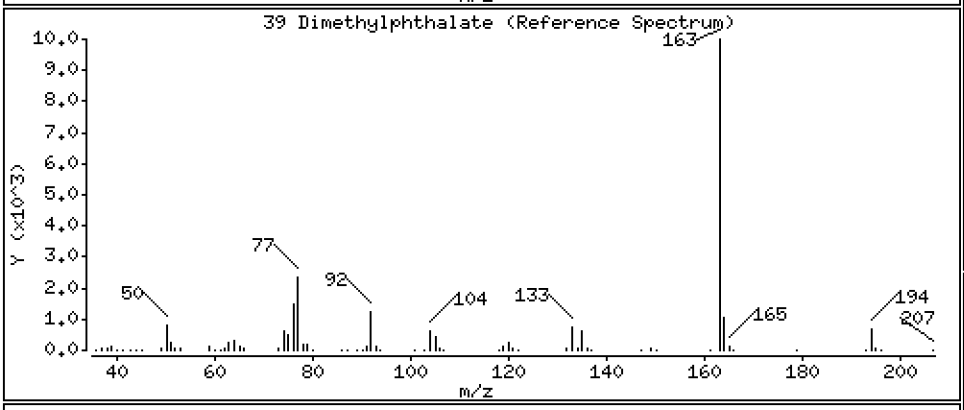
Concentration: 4.177 ug/mL

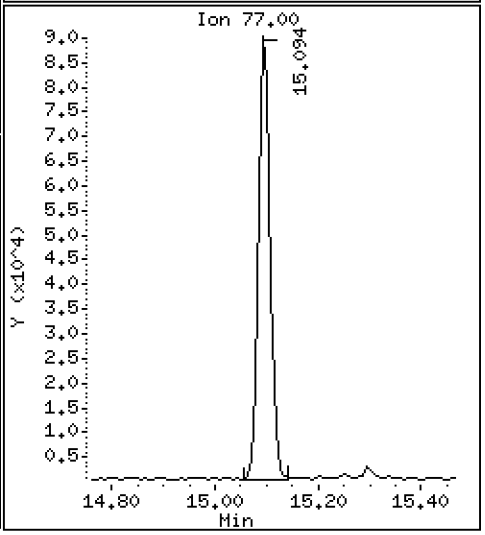


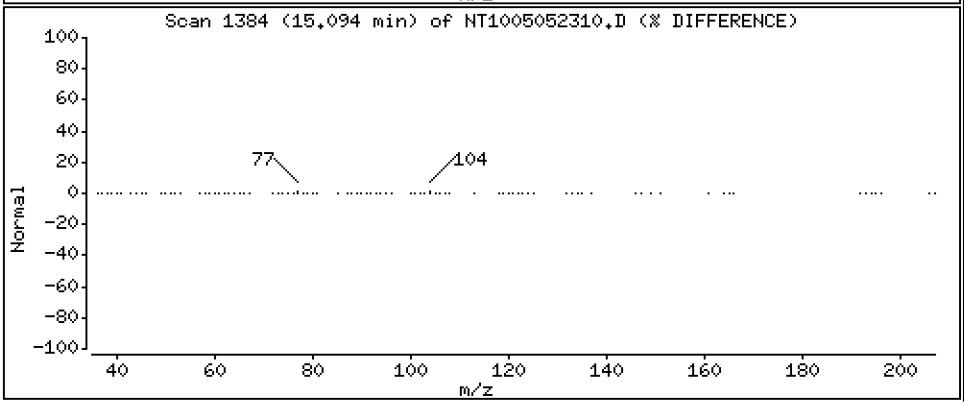












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

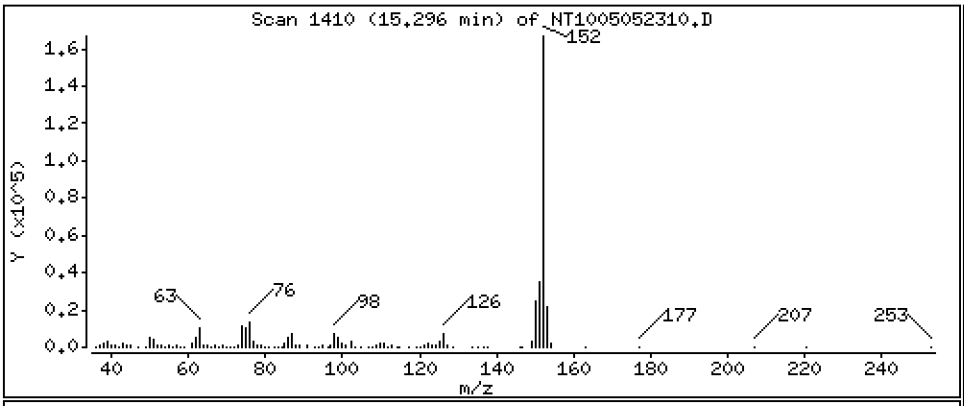
Operator: YZ

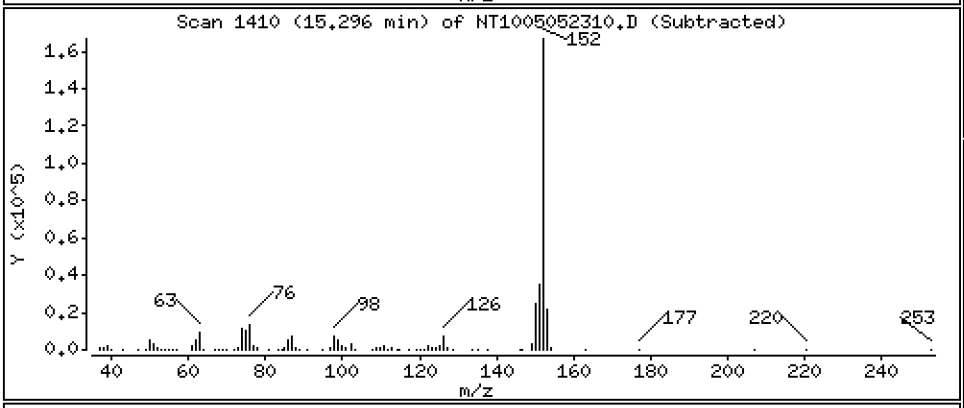
Column phase: ZB-5msi

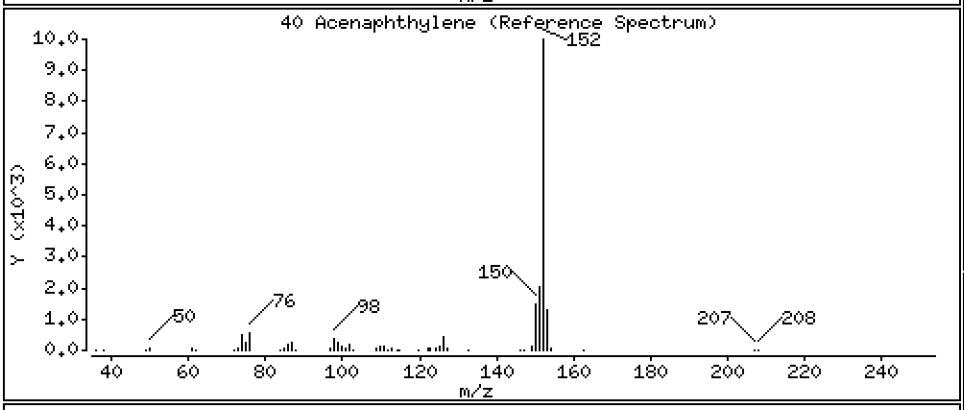
Column diameter: 0.25

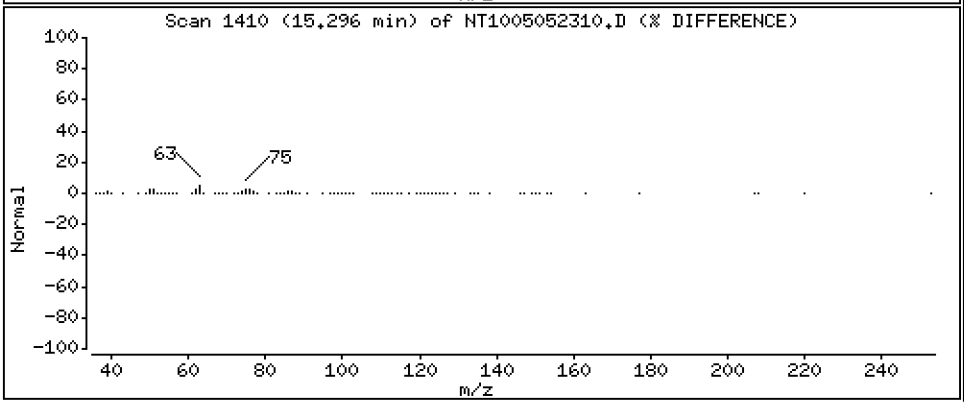
40 Acenaphthylene

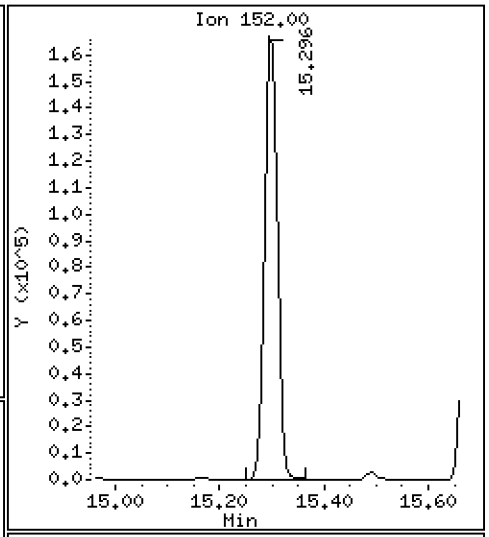
Concentration: 1.436 ug/mL

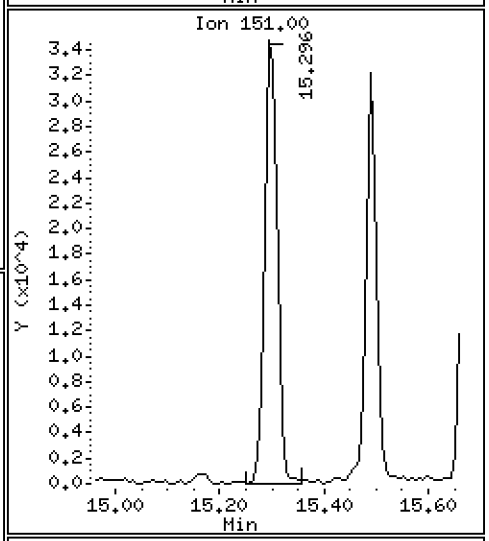


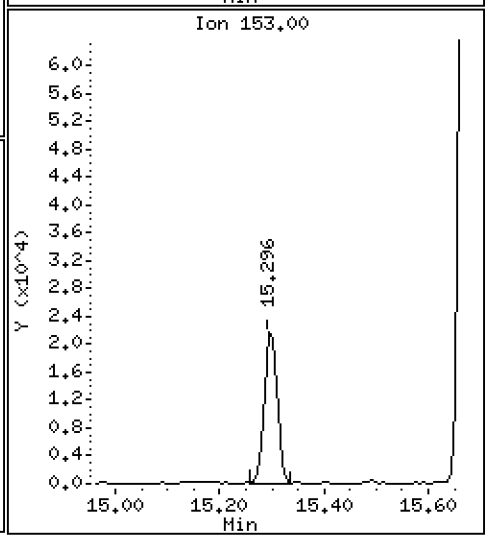












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

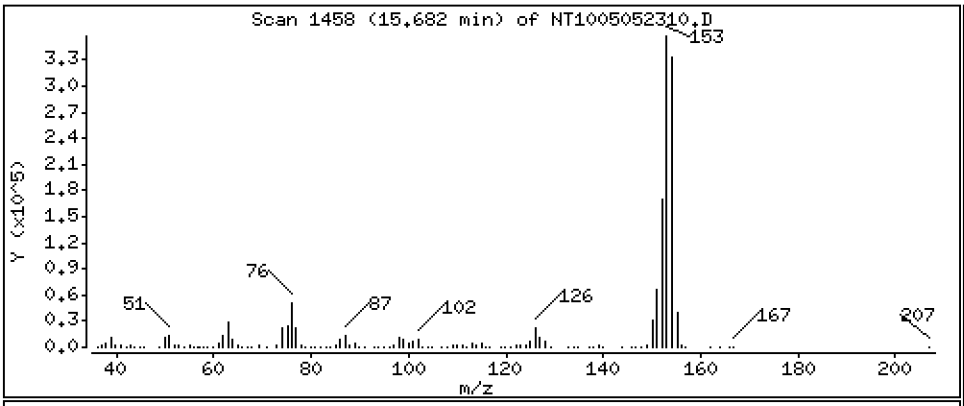
Operator: YZ

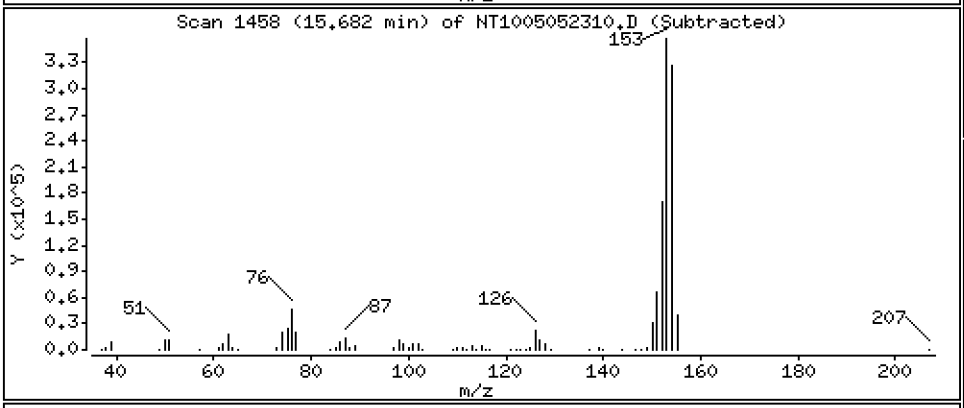
Column phase: ZB-5msi

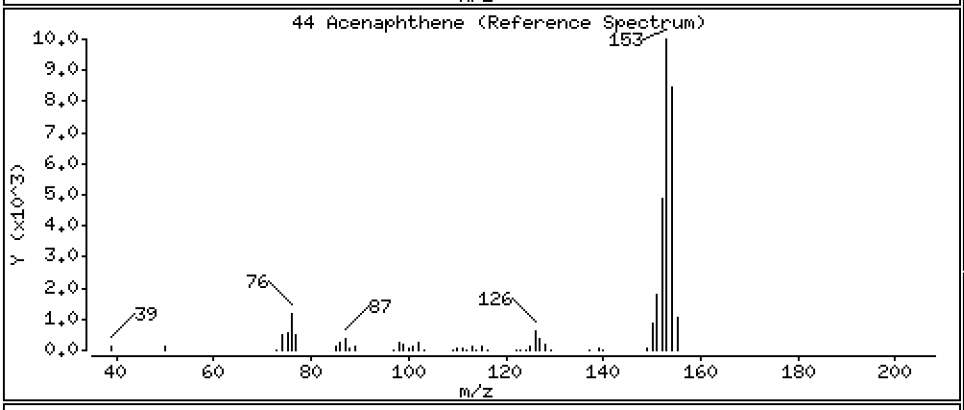
Column diameter: 0.25

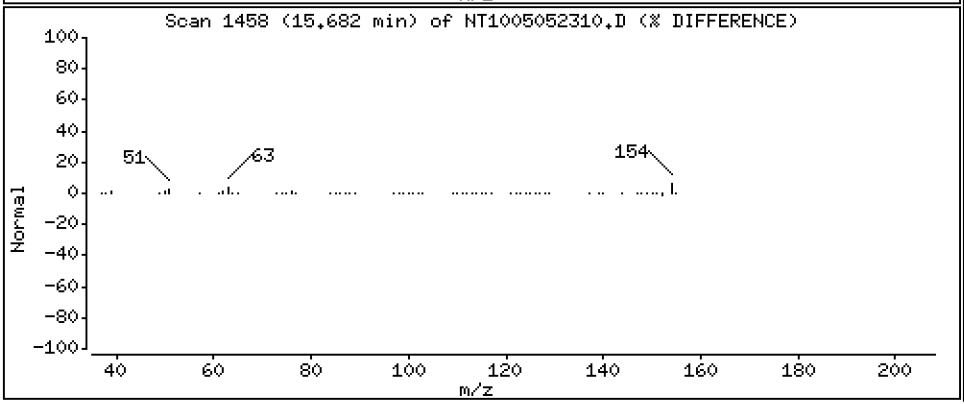
44 Acenaphthene

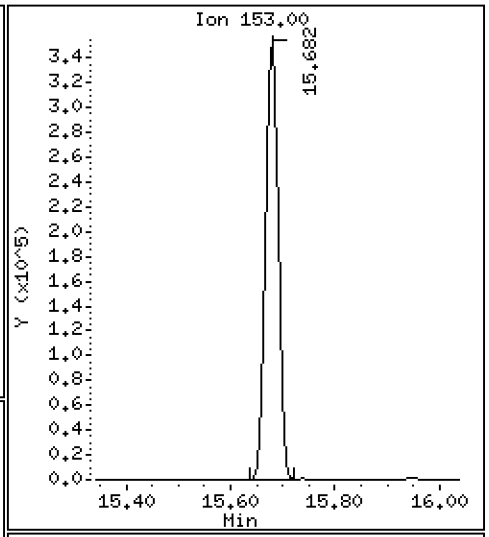
Concentration: 4.718 ug/mL

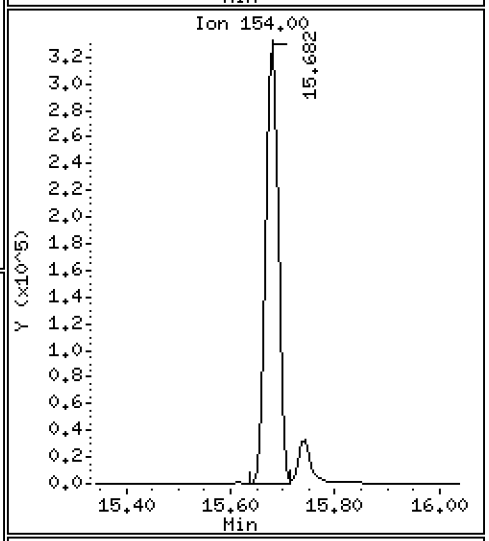


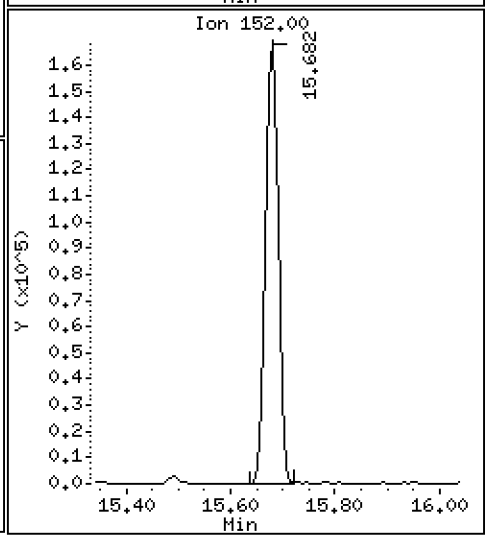












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

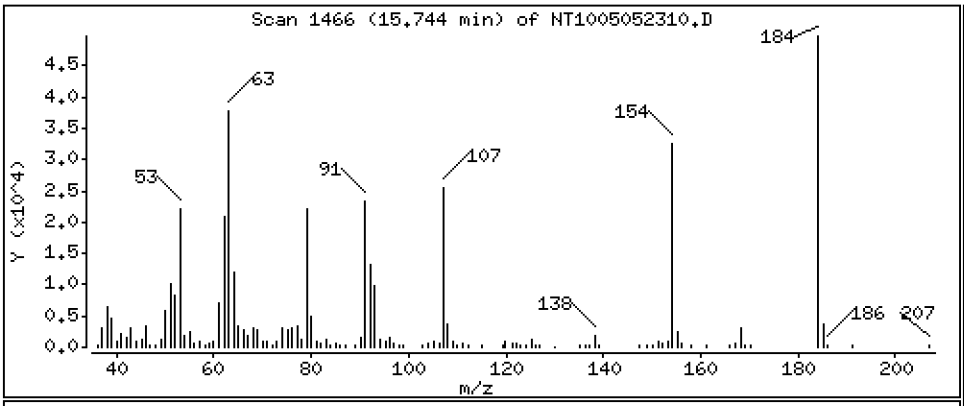
Operator: YZ

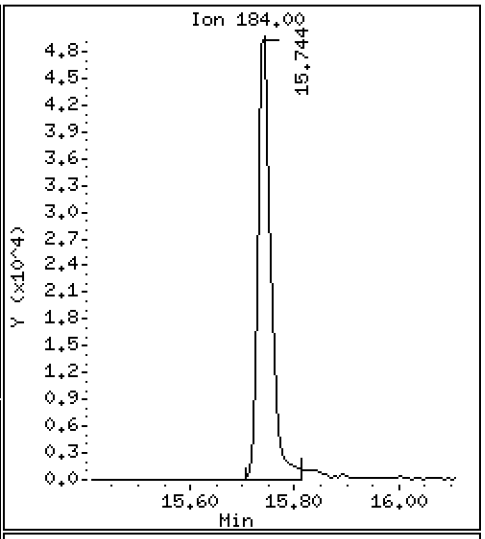
Column phase: ZB-5msi

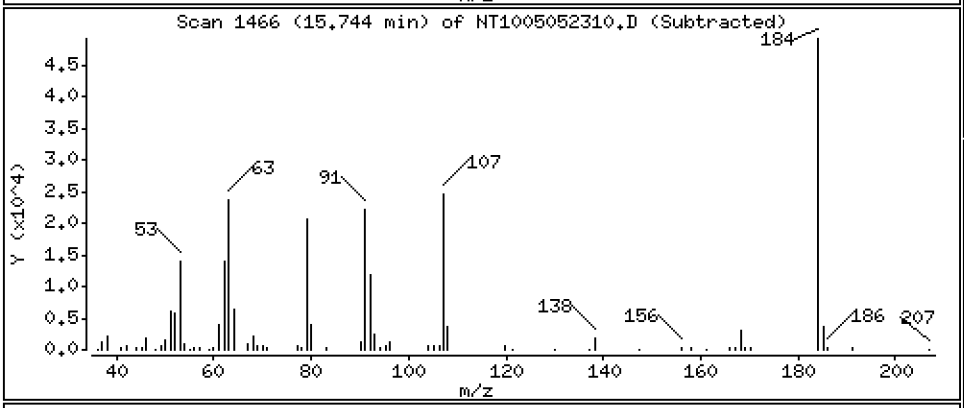
Column diameter: 0.25

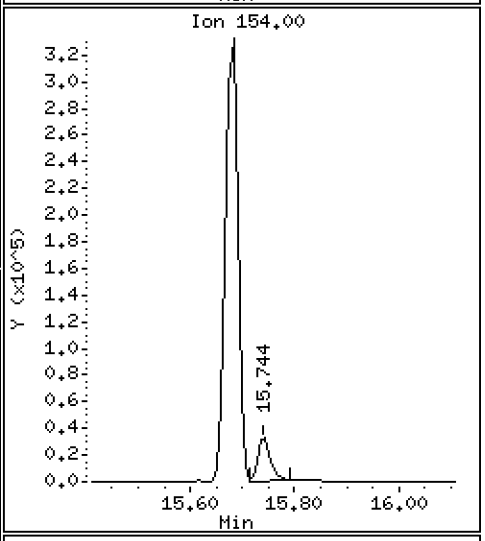
45 2,4-Dinitrophenol

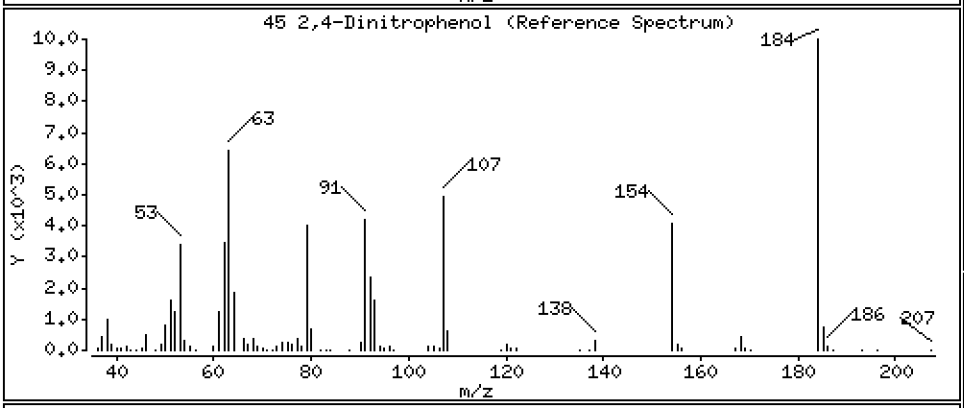
Concentration: 3.592 ug/mL

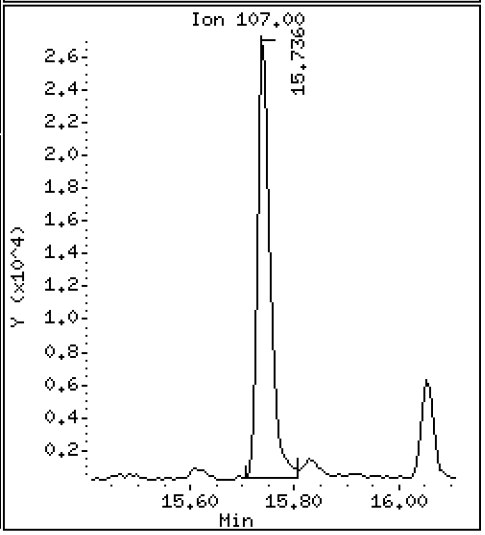


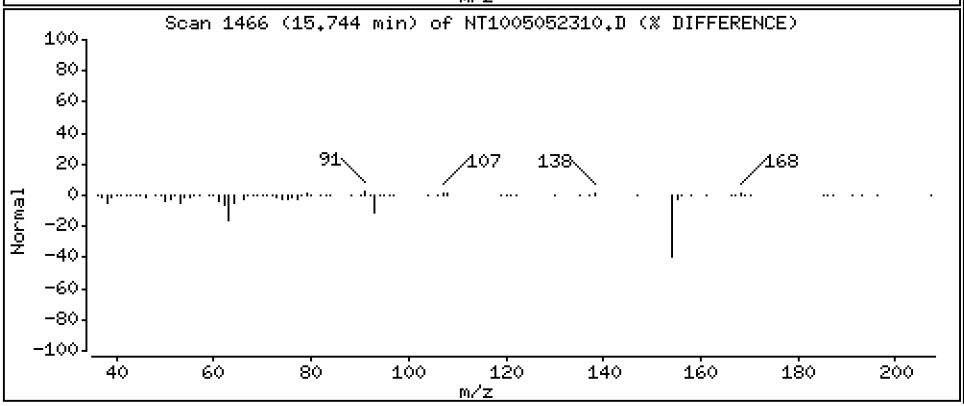












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

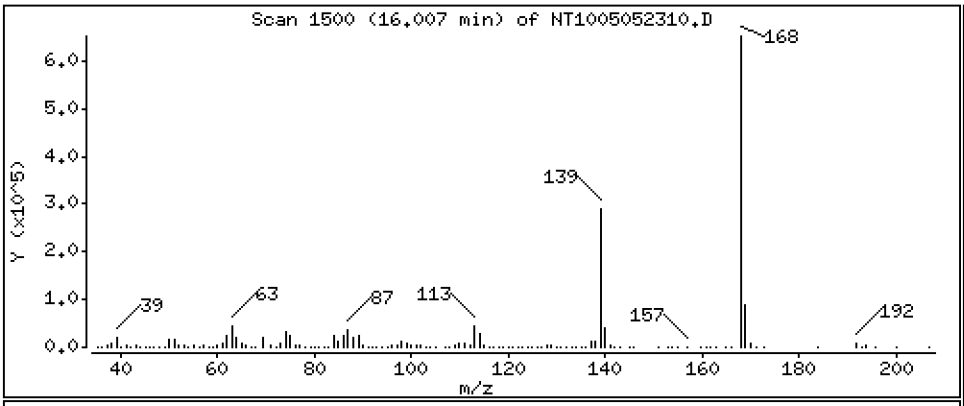
Operator: YZ

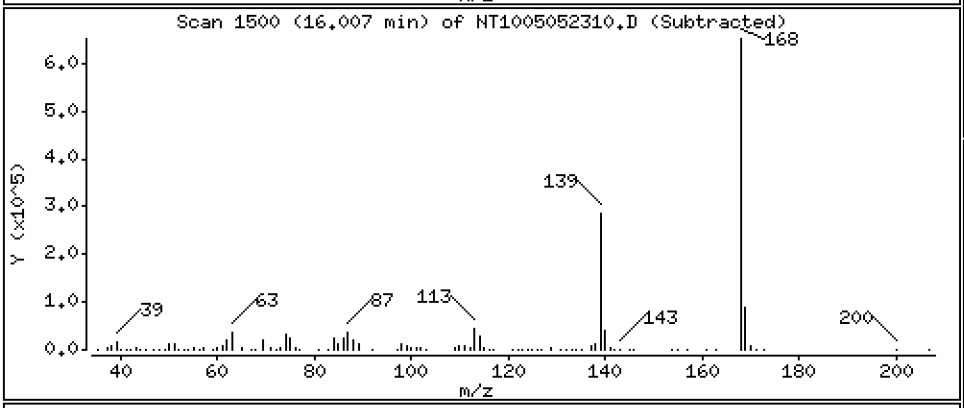
Column phase: ZB-5msi

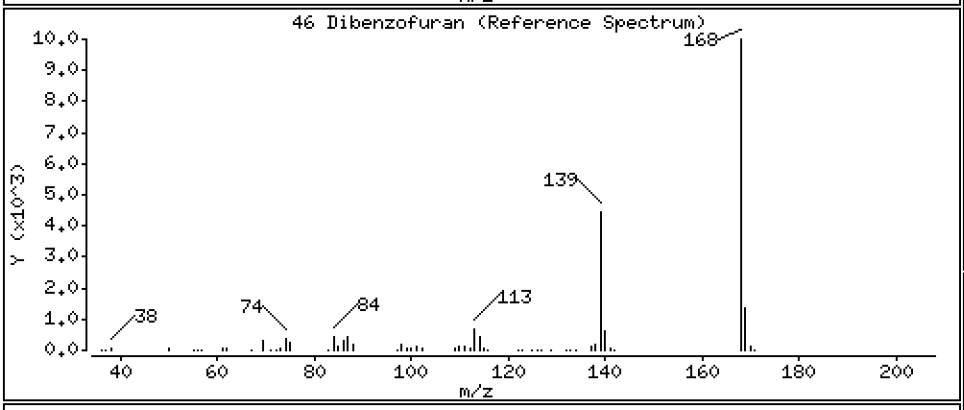
Column diameter: 0.25

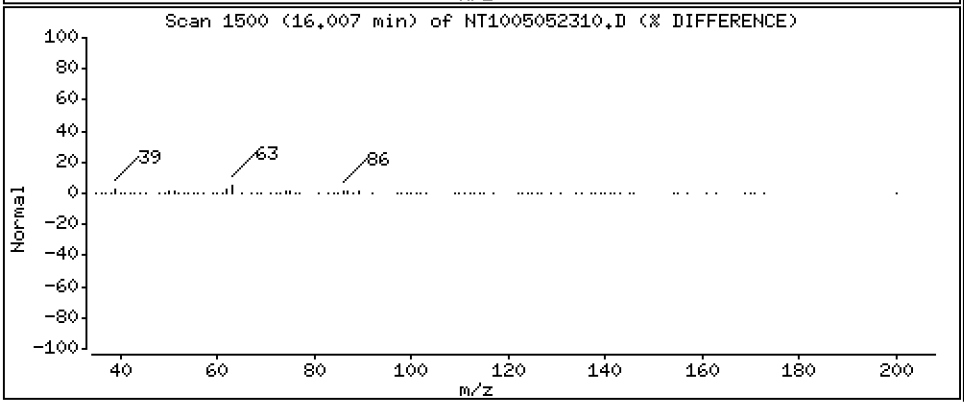
46 Dibenzofuran

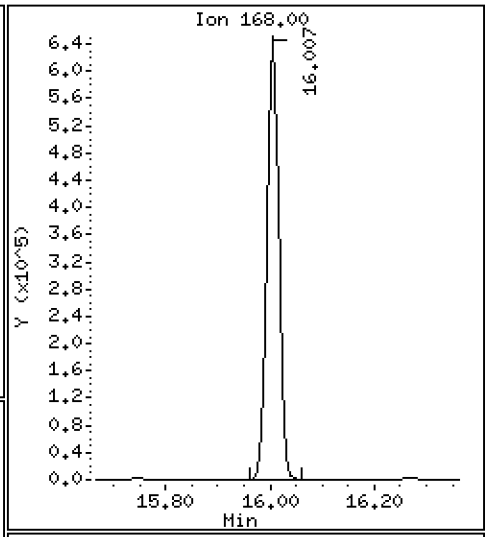
Concentration: 5.444 ug/mL

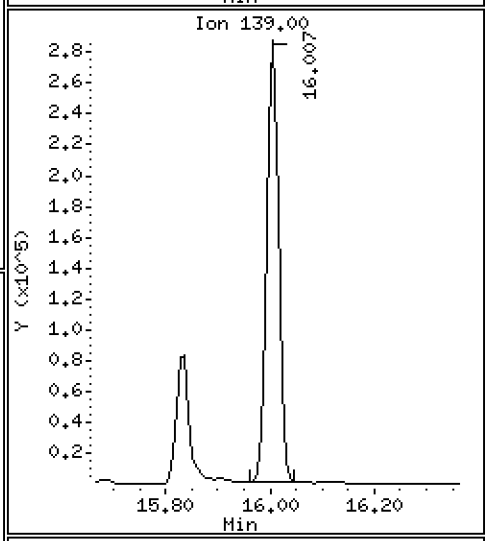


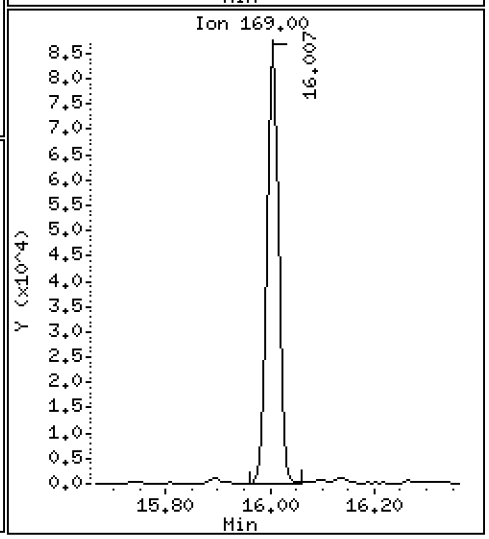












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

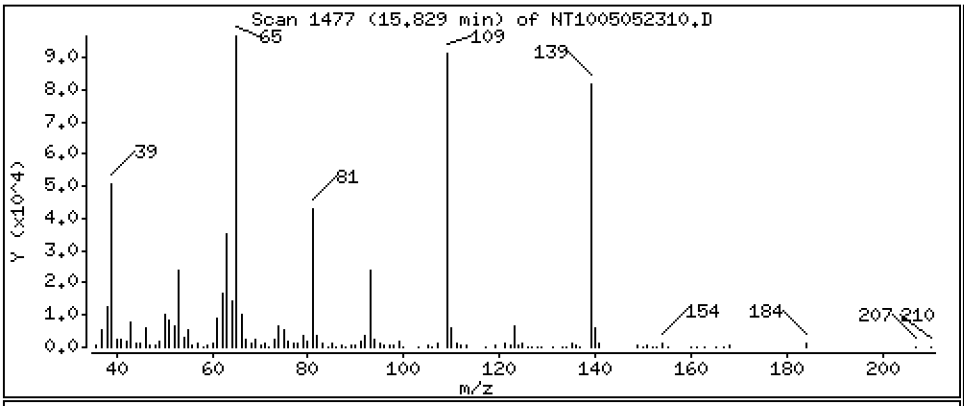
Operator: YZ

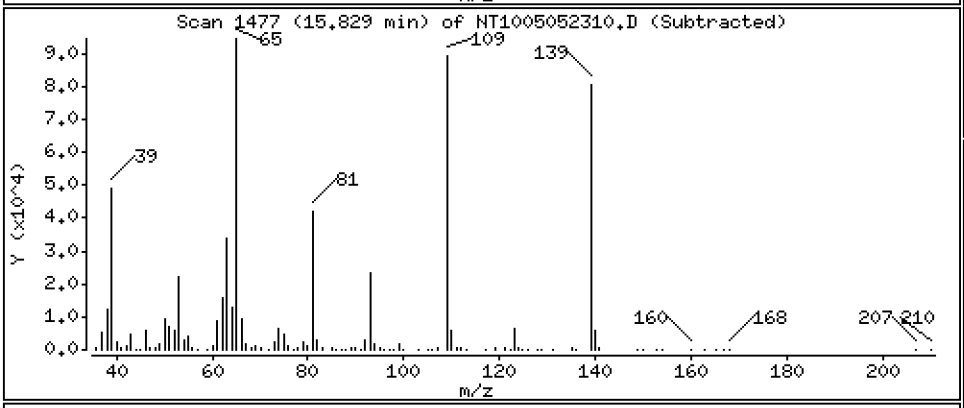
Column phase: ZB-5msi

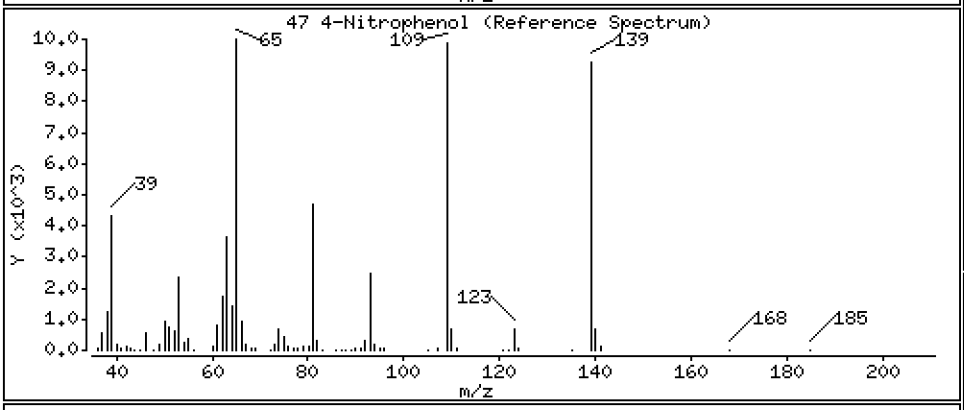
Column diameter: 0.25

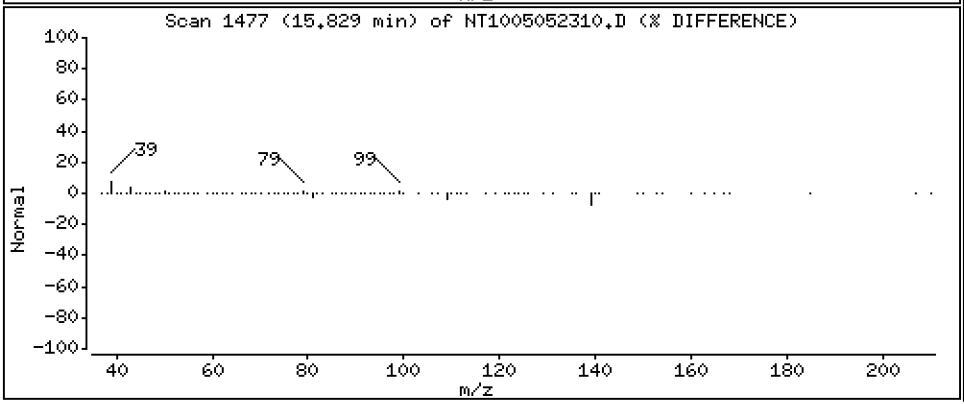
47 4-Nitrophenol

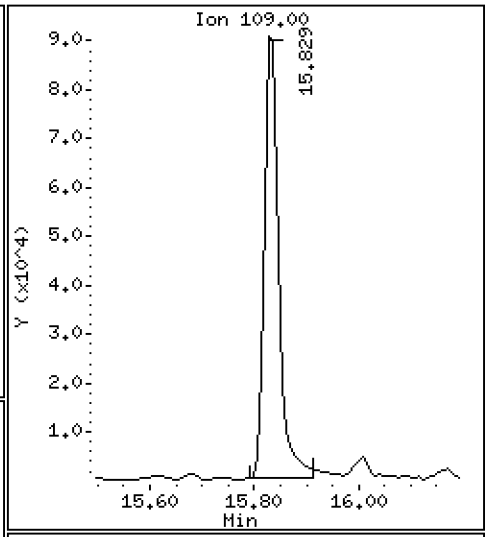
Concentration: 5.891 ug/mL

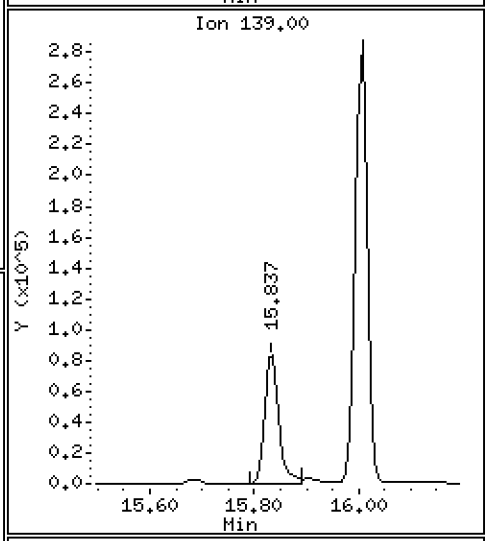


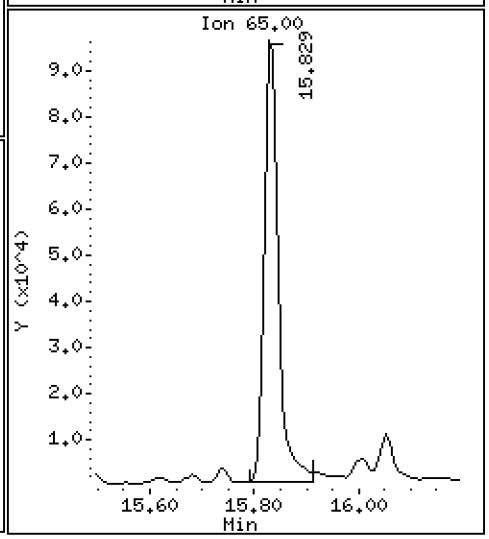












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

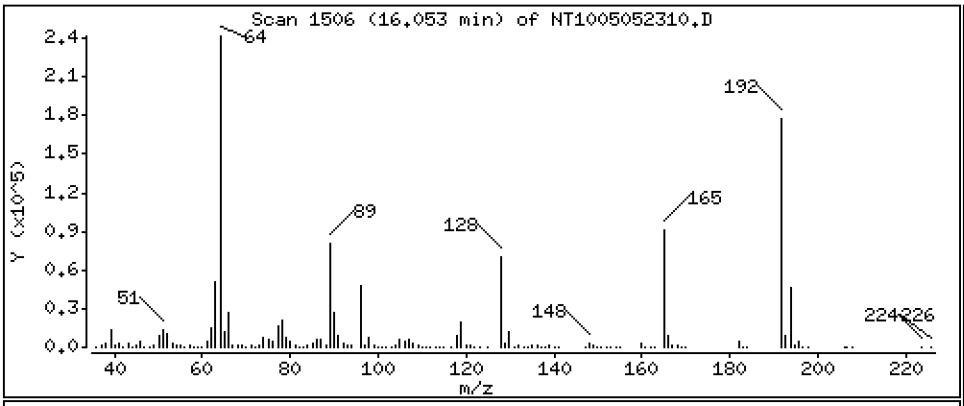
Operator: YZ

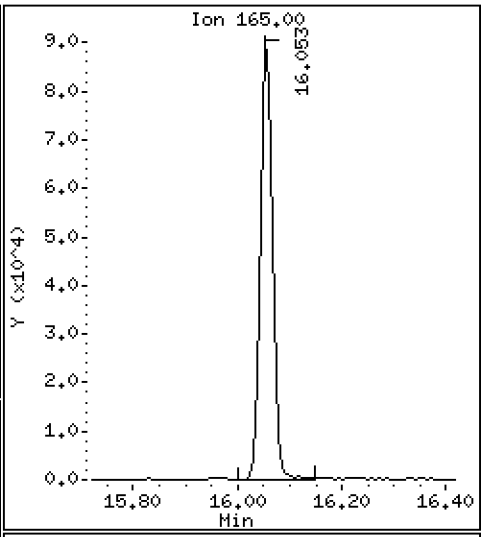
Column phase: ZB-5msi

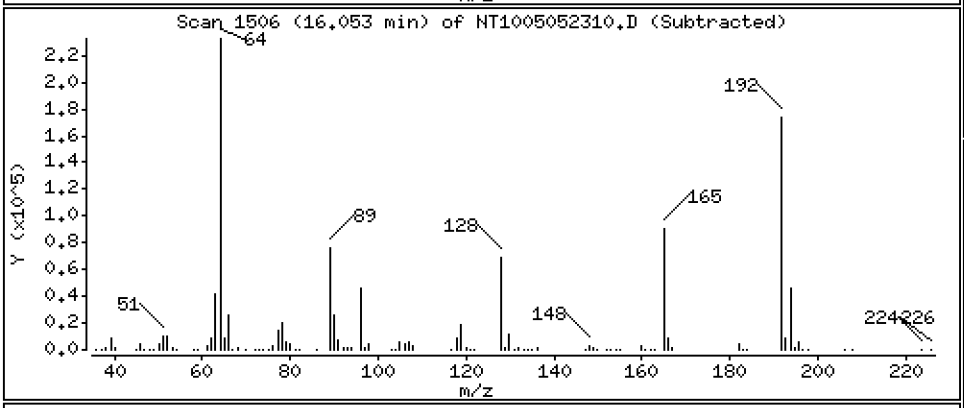
Column diameter: 0.25

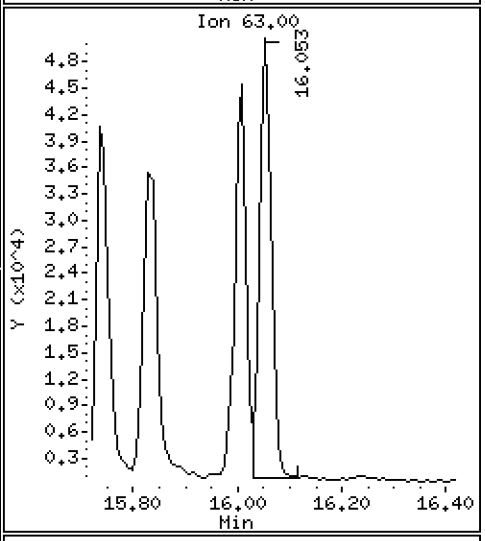
48 2,4-Dinitrotoluene

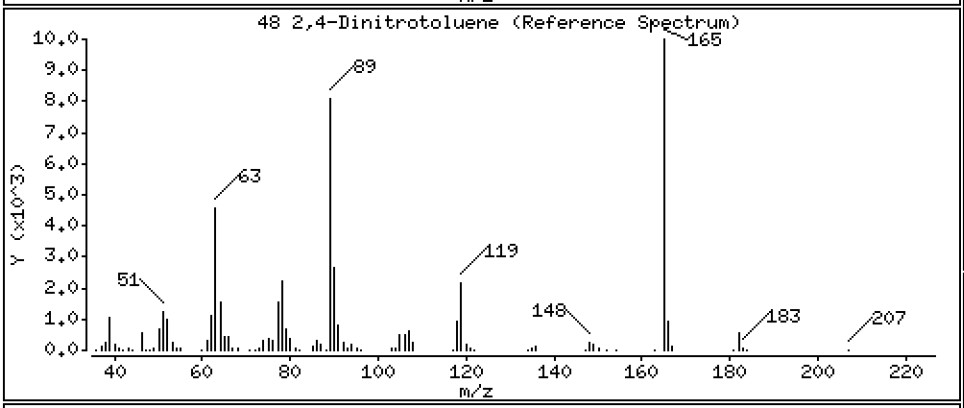
Concentration: 3.200 ug/mL

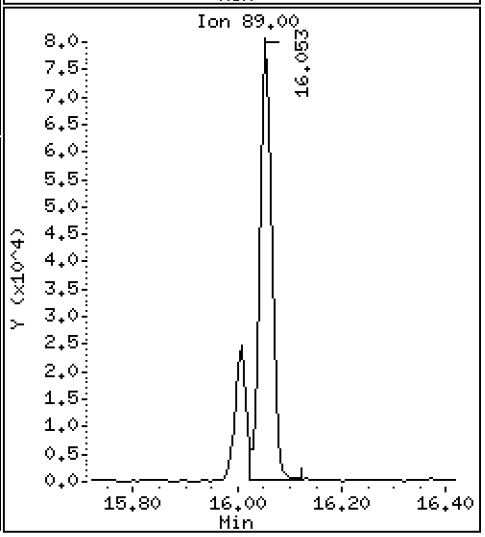


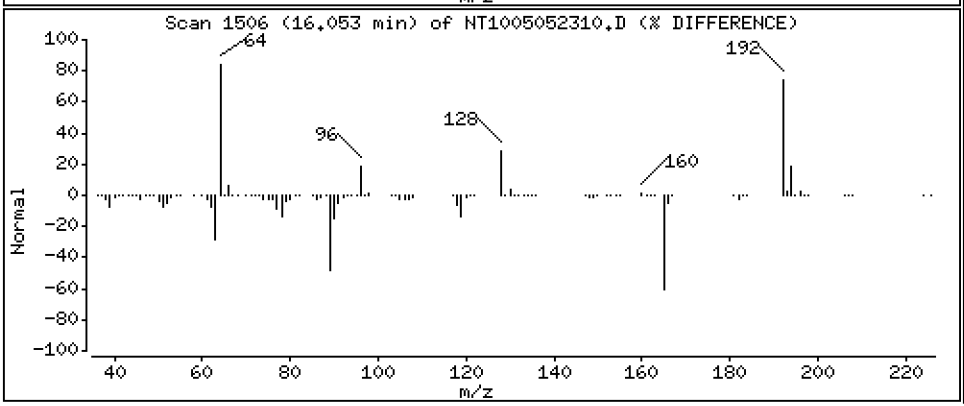












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

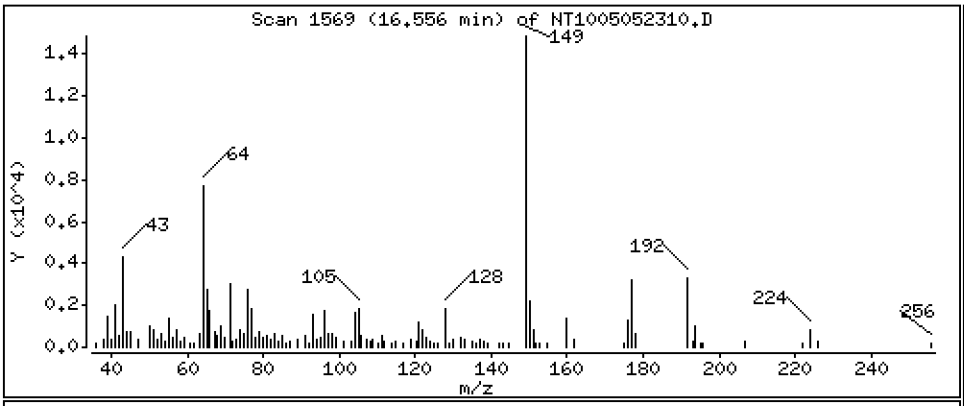
Operator: YZ

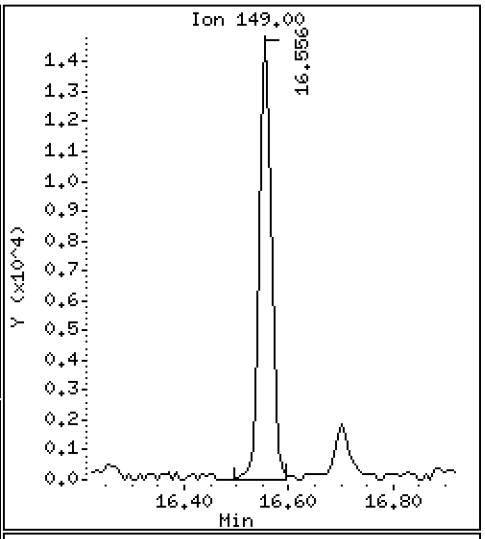
Column phase: ZB-5msi

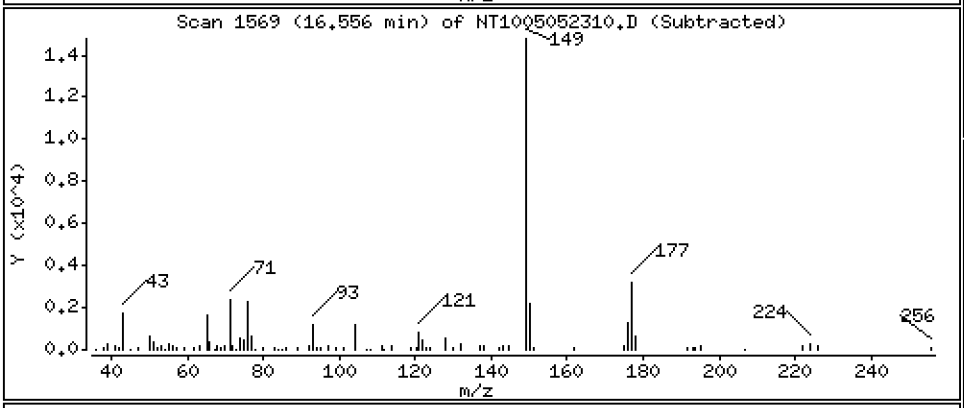
Column diameter: 0.25

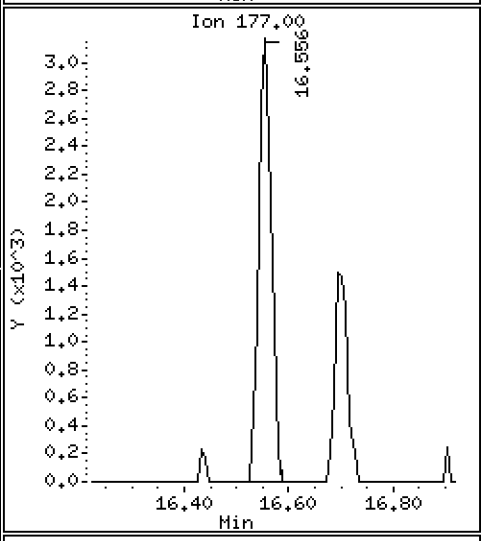
50 Diethylphthalate

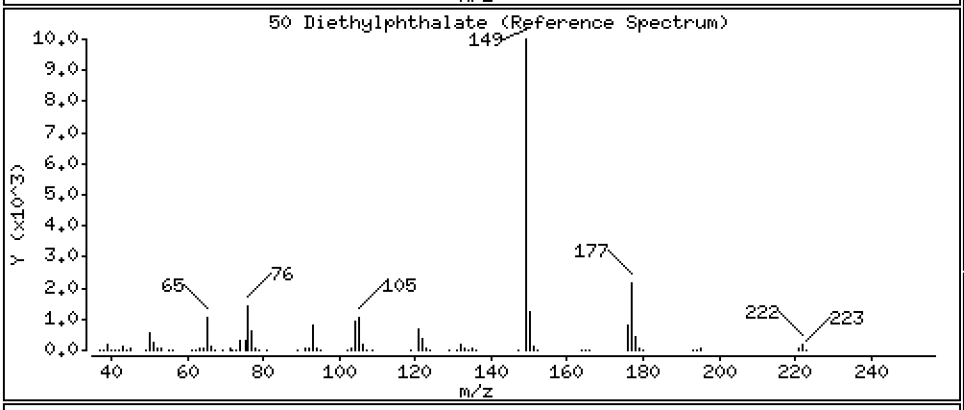
Concentration: 0.1954 ug/mL

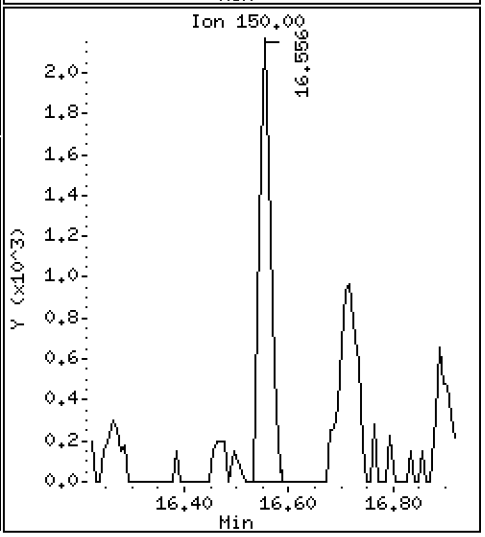


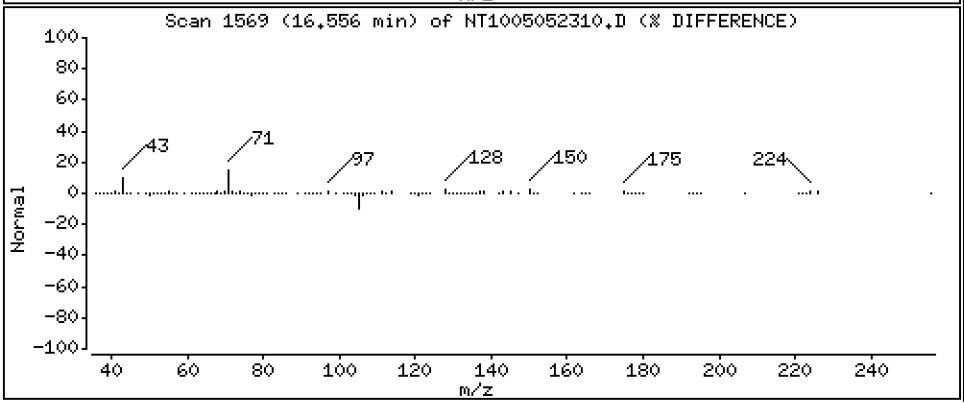












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

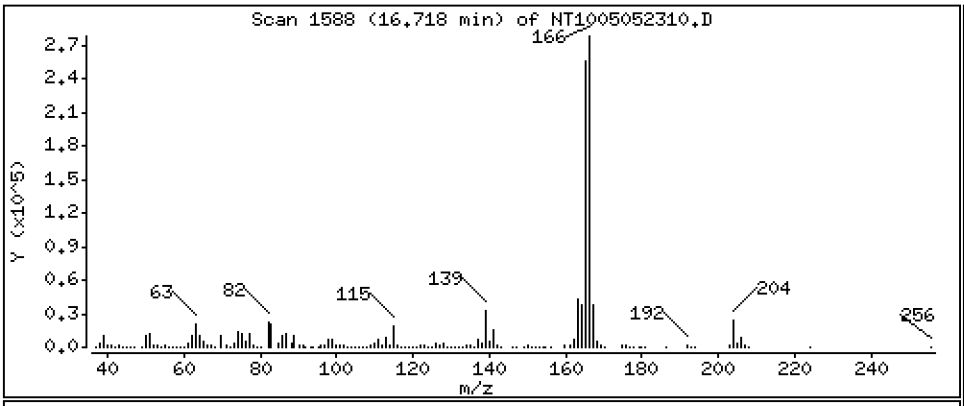
Operator: YZ

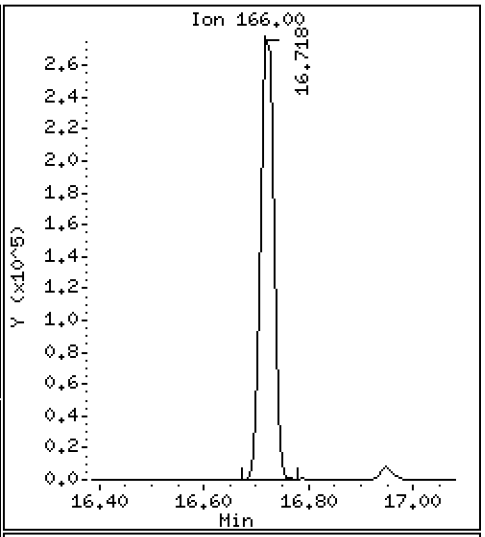
Column phase: ZB-5msi

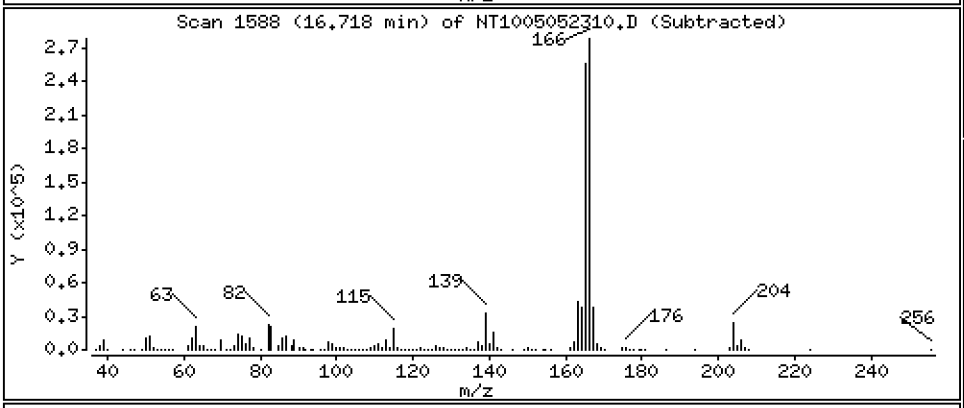
Column diameter: 0.25

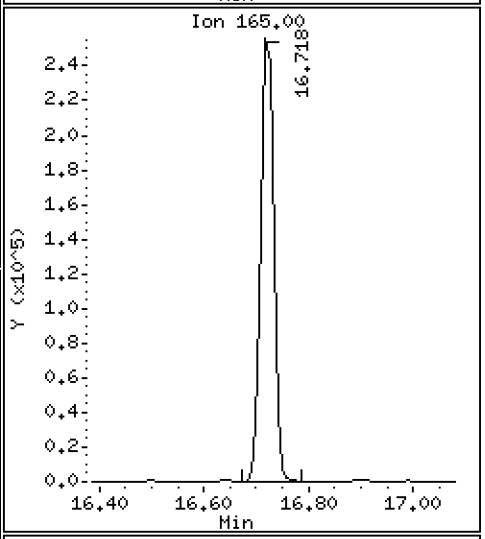
49 Fluorene

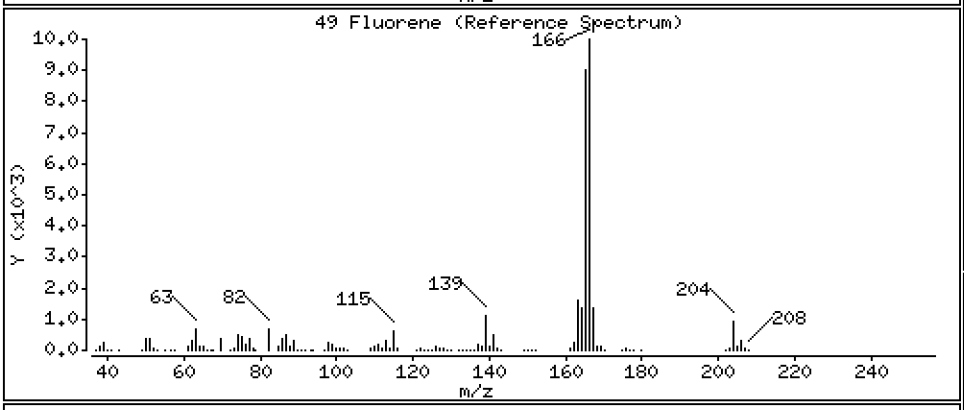
Concentration: 3.190 ug/mL

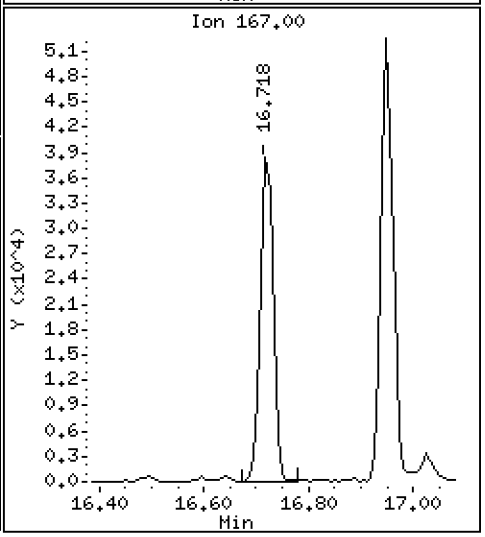


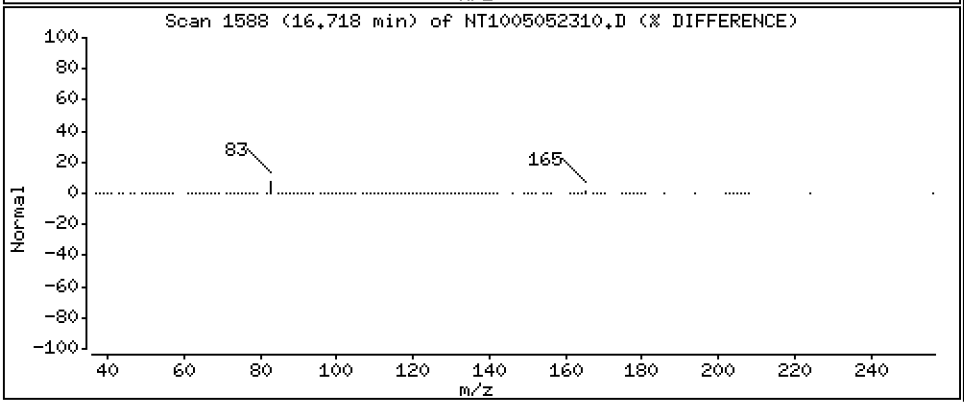












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

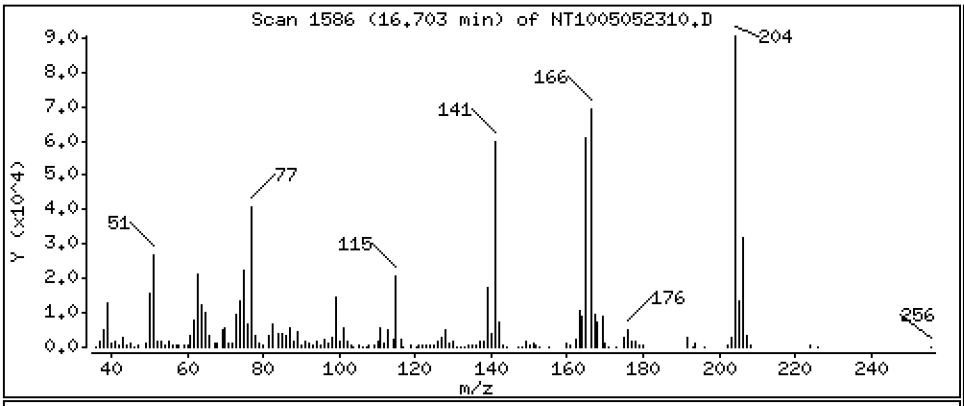
Operator: YZ

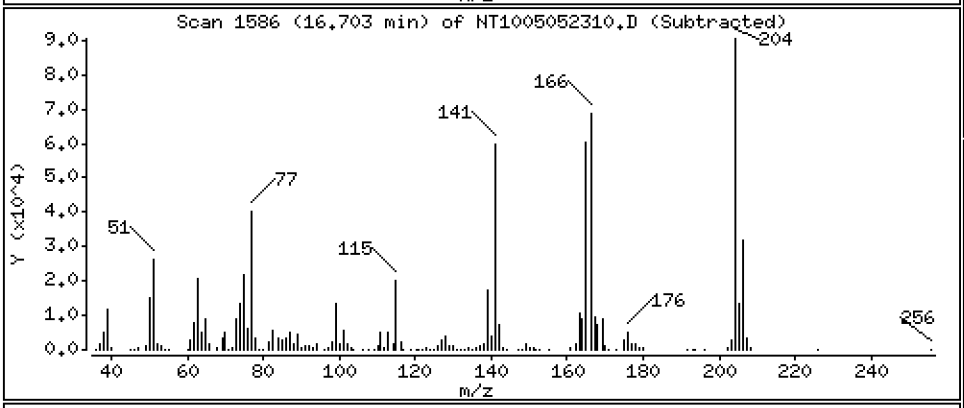
Column phase: ZB-5msi

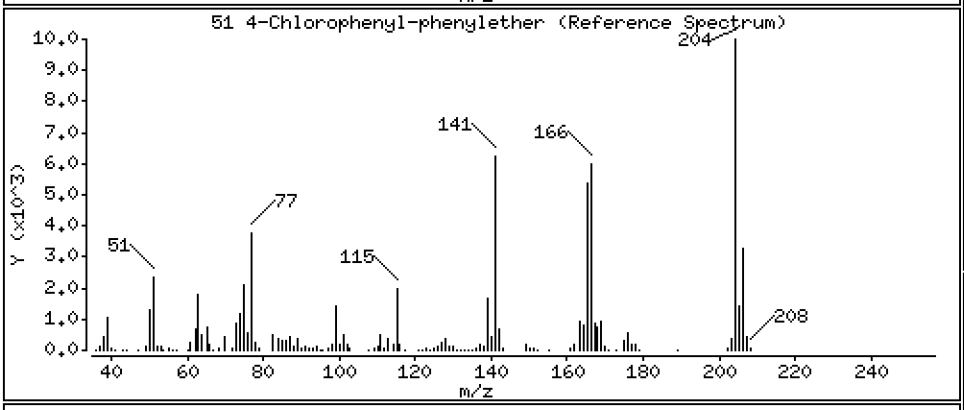
Column diameter: 0.25

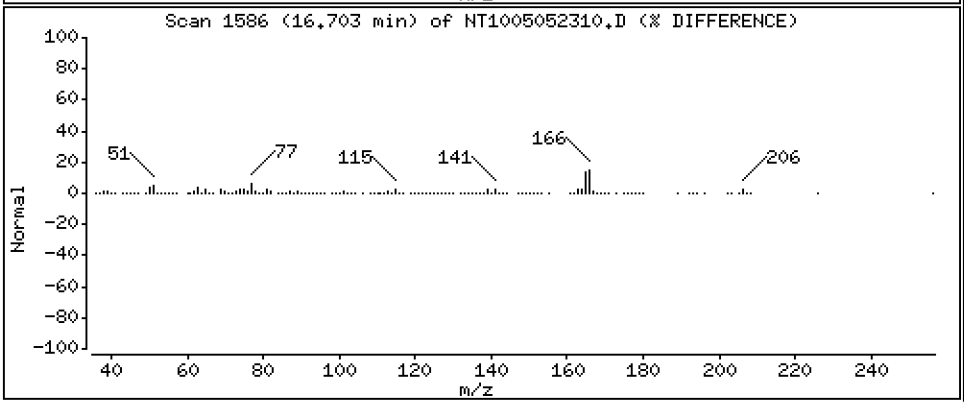
51 4-Chlorophenyl-phenylether

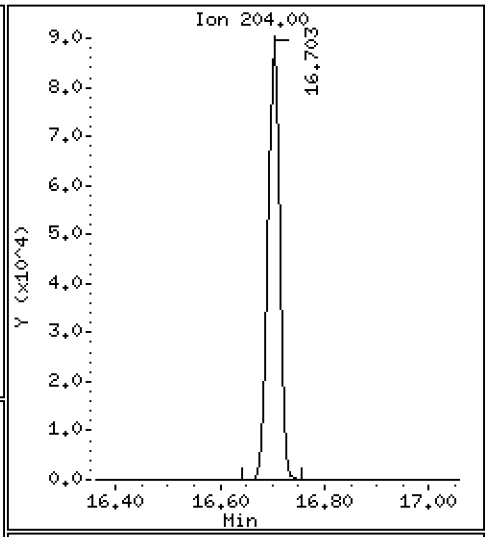
Concentration: 2.089 ug/mL

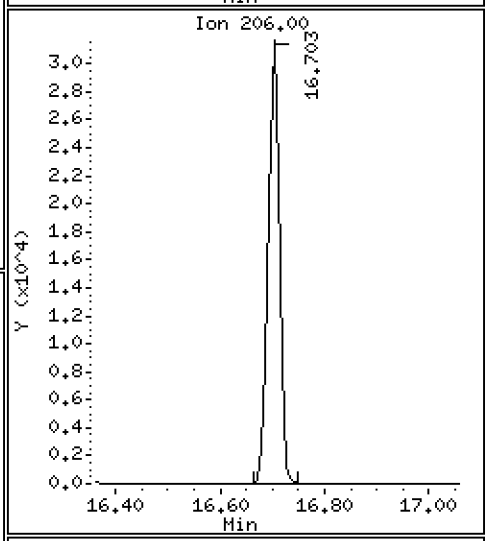


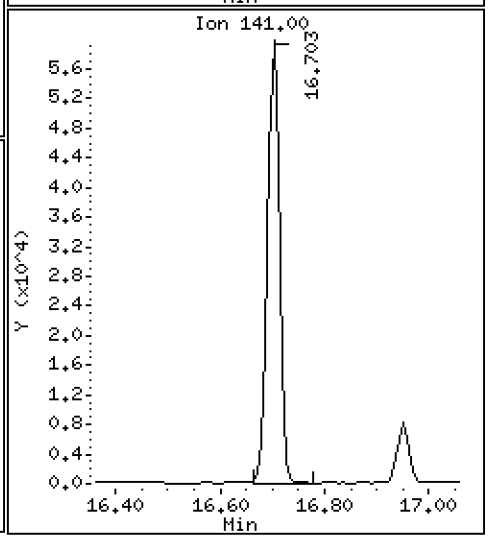












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

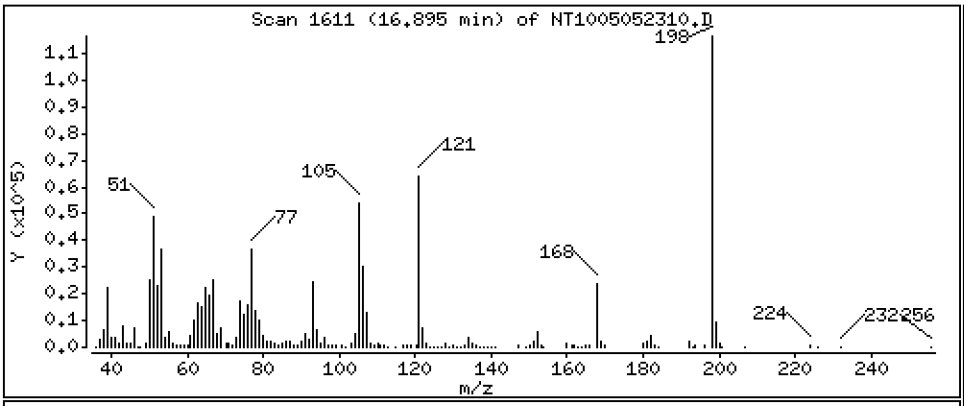
Operator: YZ

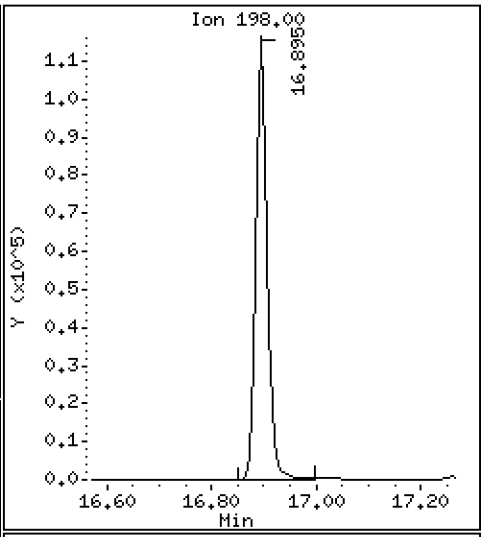
Column phase: ZB-5msi

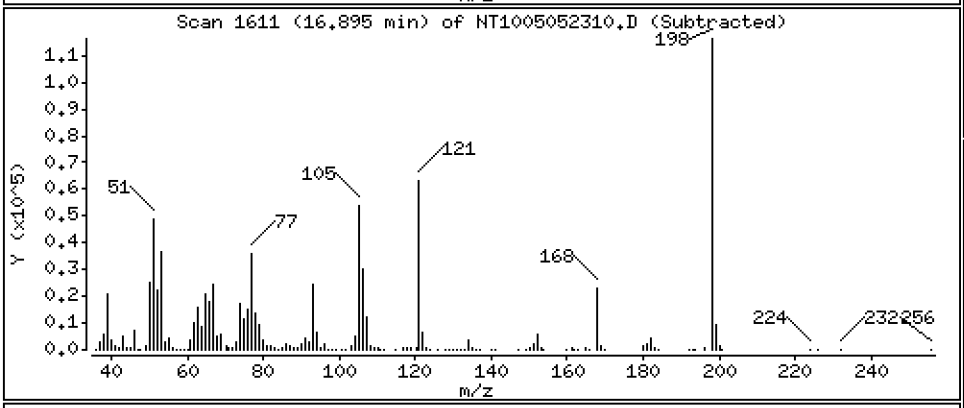
Column diameter: 0.25

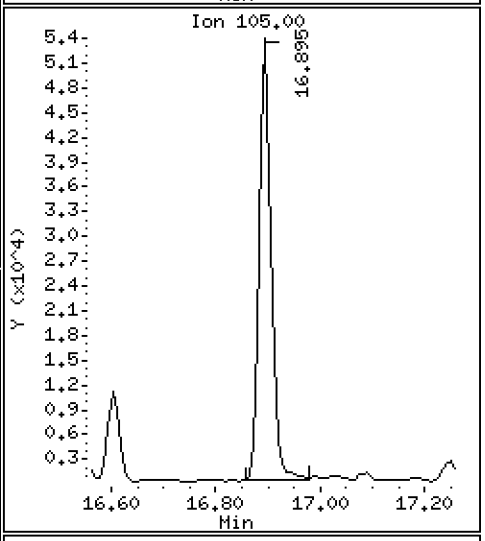
53 4,6-Dinitro-2-methylphenol

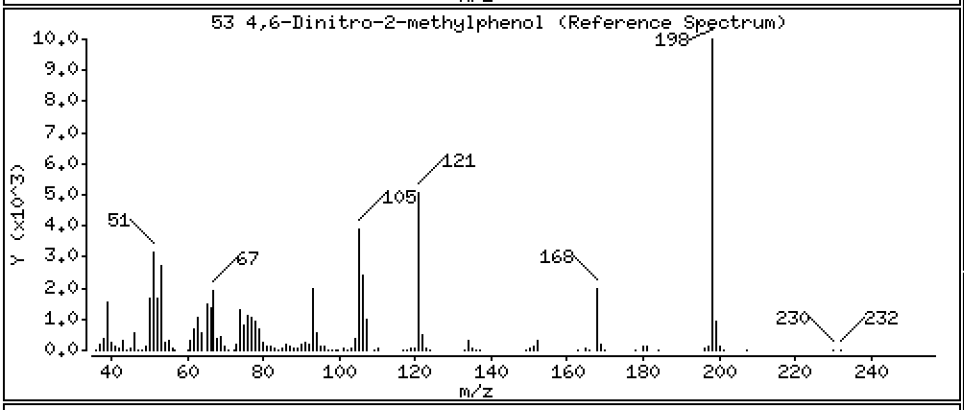
Concentration: 6.613 ug/mL

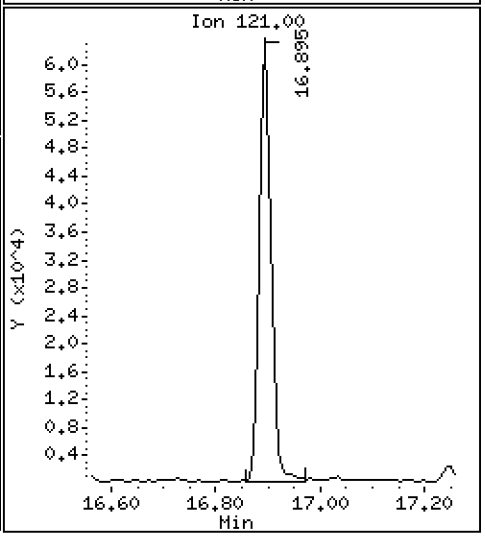


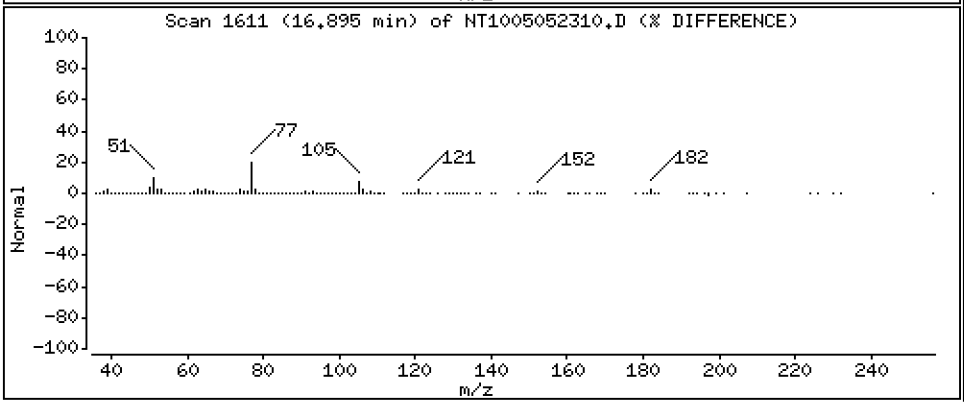












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

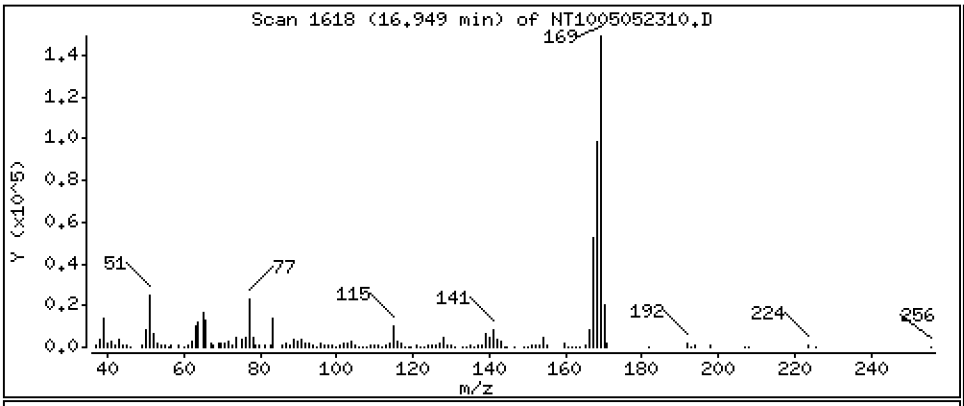
Operator: YZ

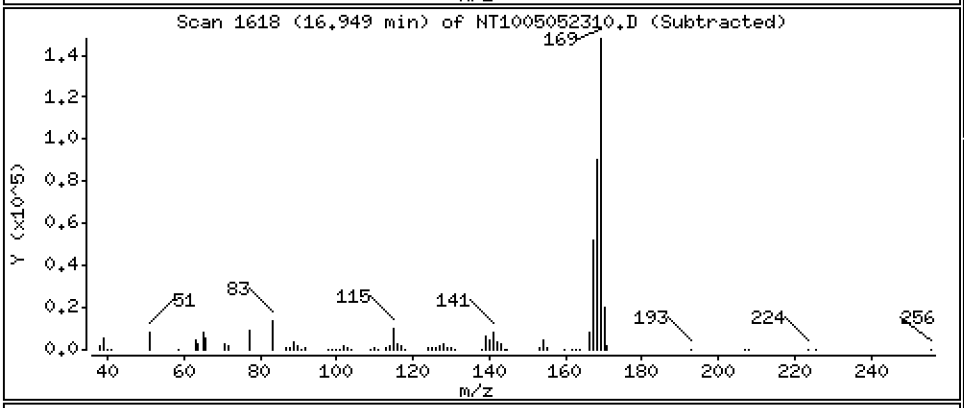
Column phase: ZB-5msi

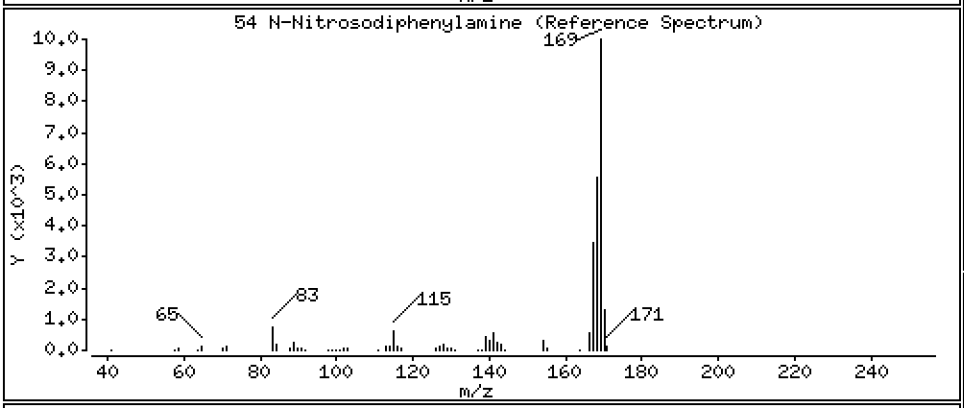
Column diameter: 0.25

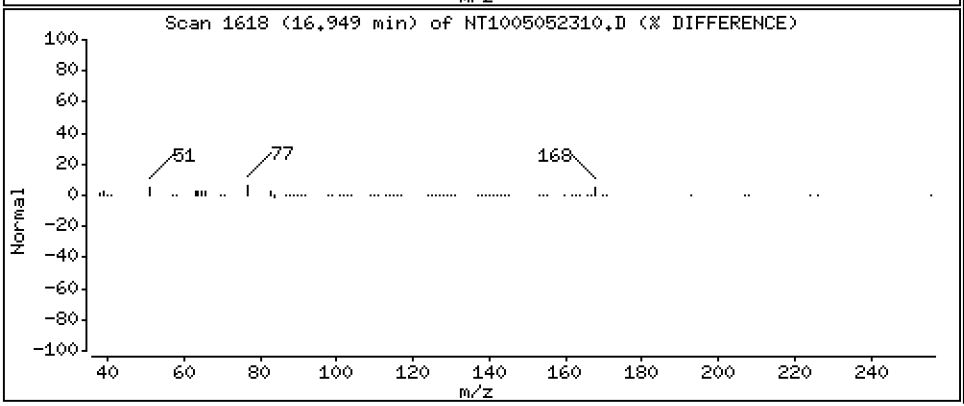
54 N-Nitrosodiphenylamine

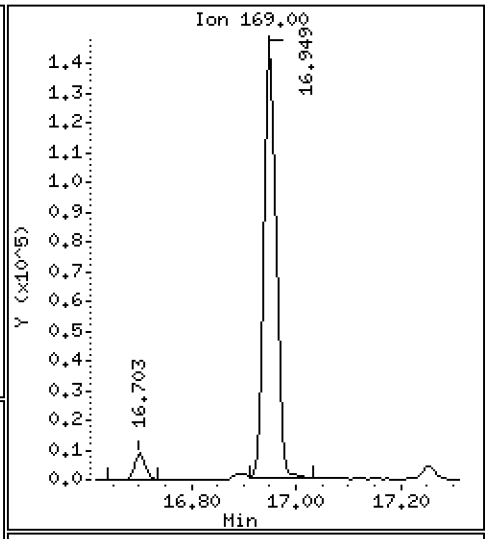
Concentration: 2.558 ug/mL

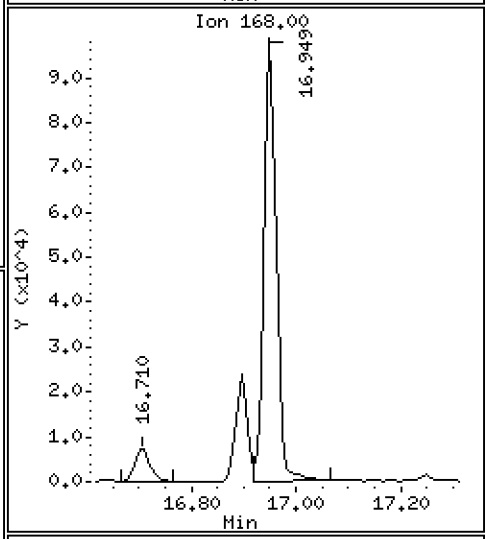


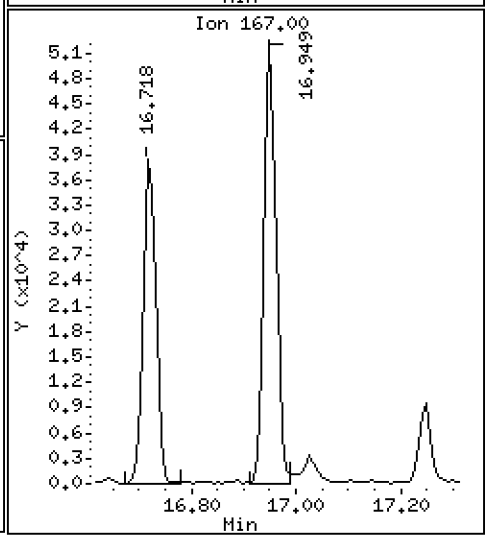












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

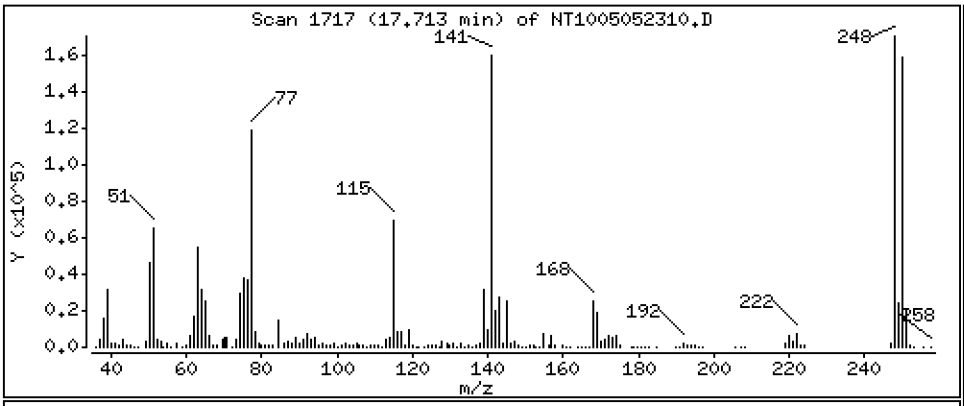
Operator: YZ

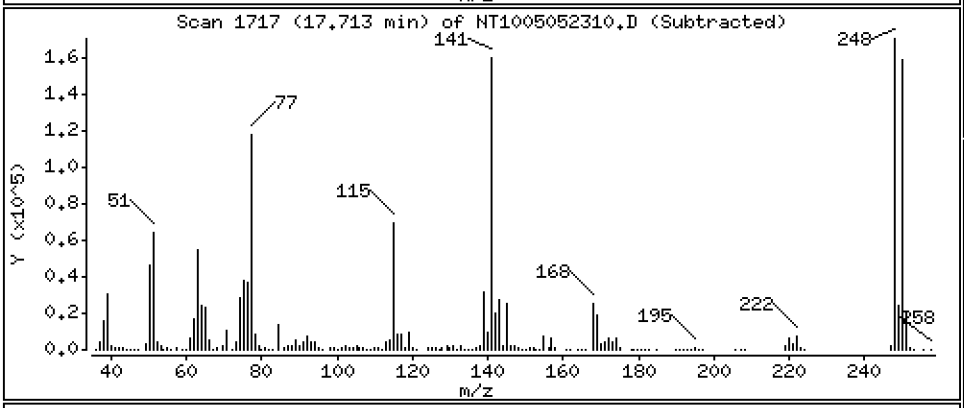
Column phase: ZB-5msi

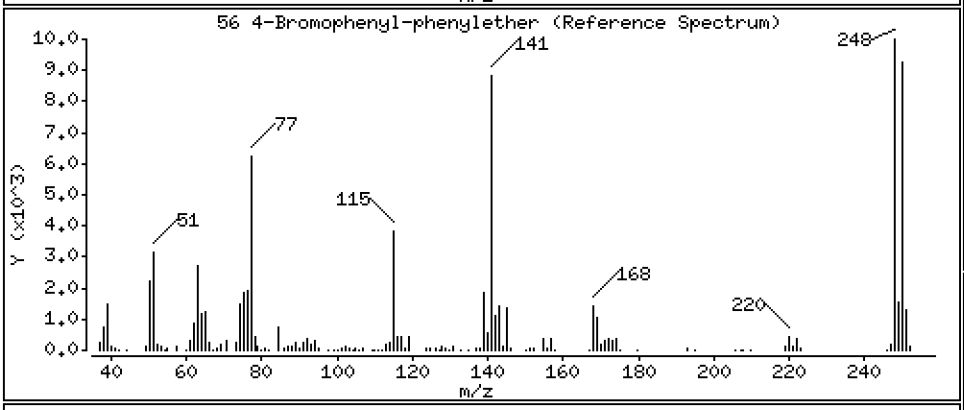
Column diameter: 0.25

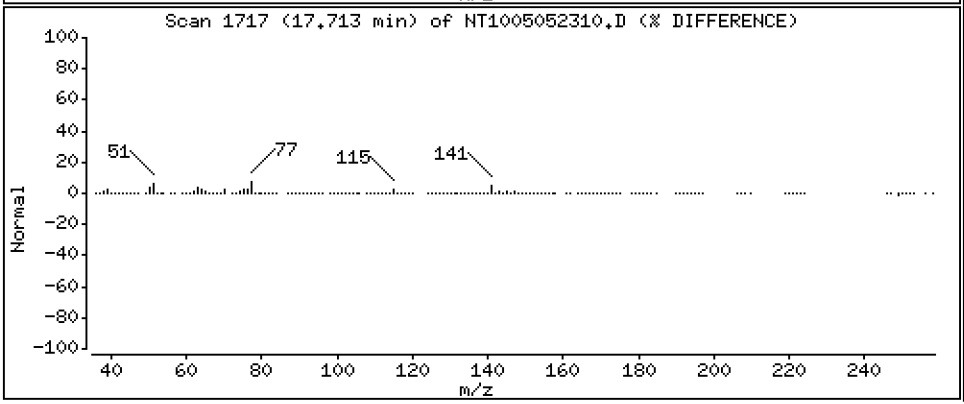
56 4-Bromophenyl-phenylether

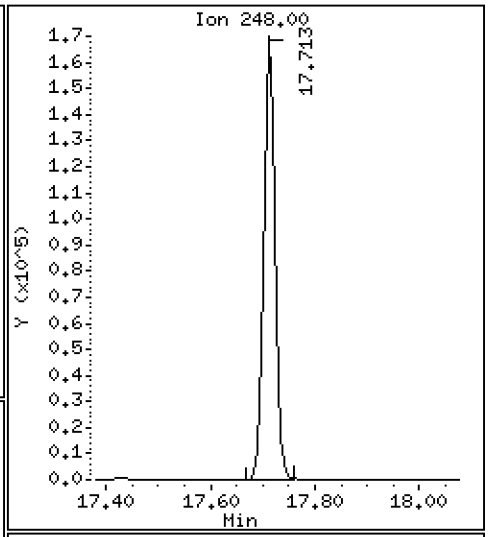
Concentration: 6.187 ug/mL

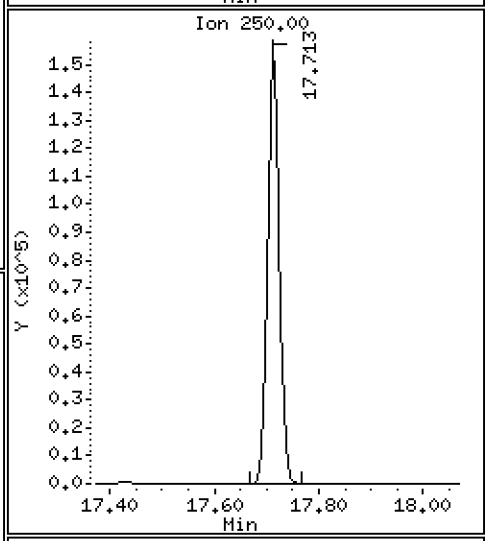


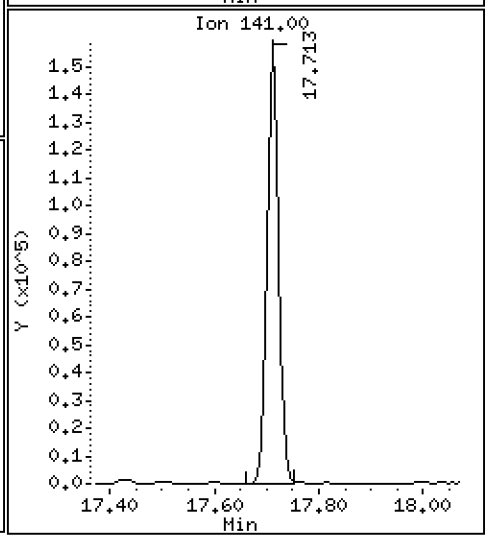












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

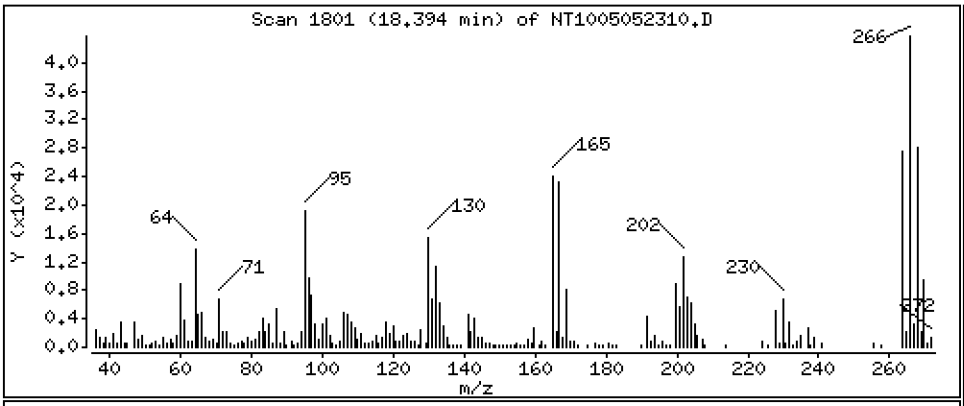
Operator: YZ

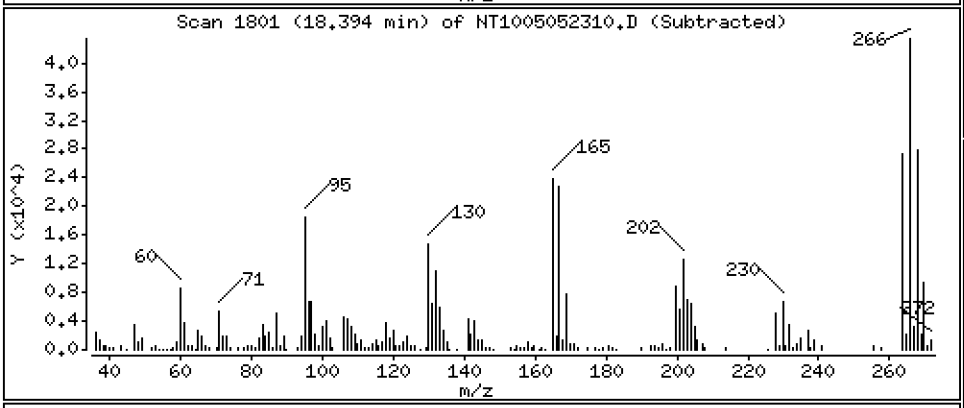
Column phase: ZB-5msi

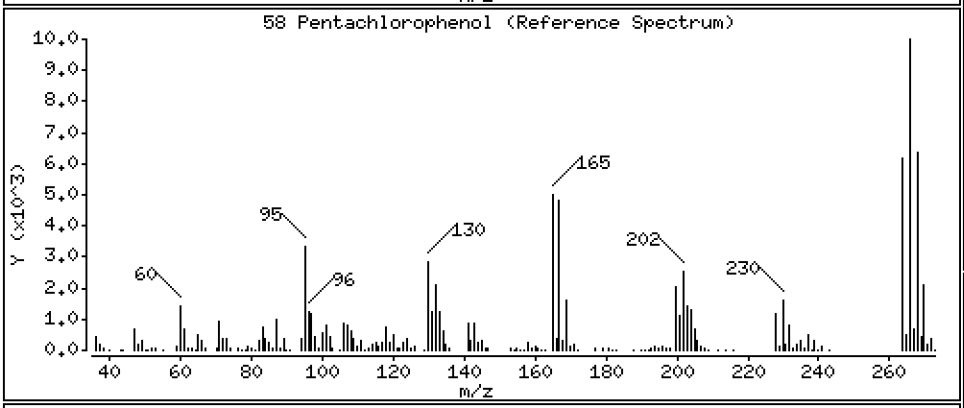
Column diameter: 0.25

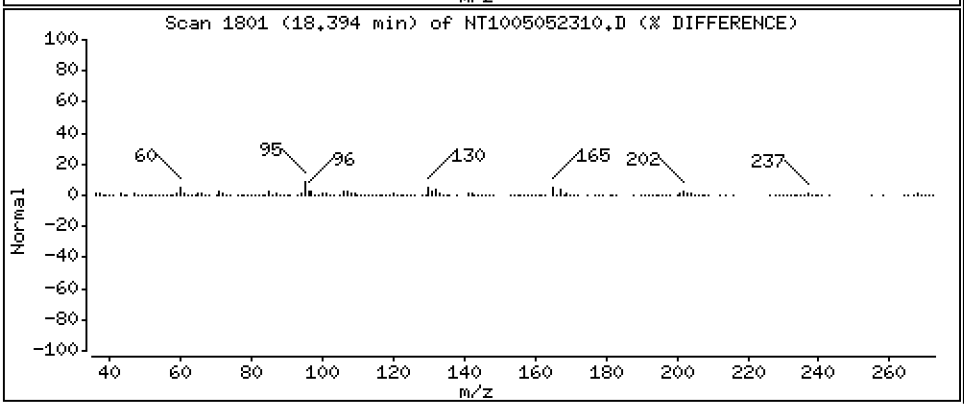
58 Pentachlorophenol

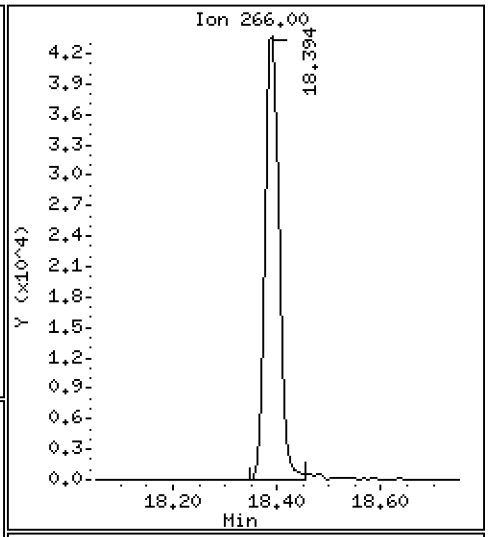
Concentration: 2.710 ug/mL

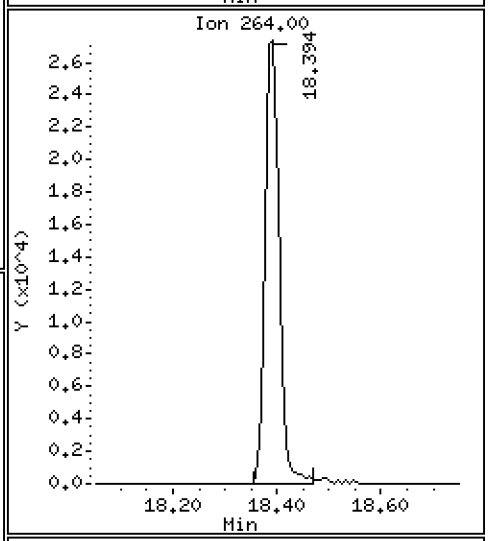


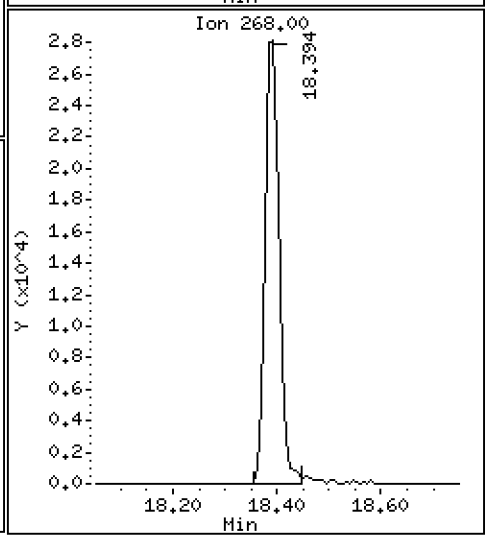












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

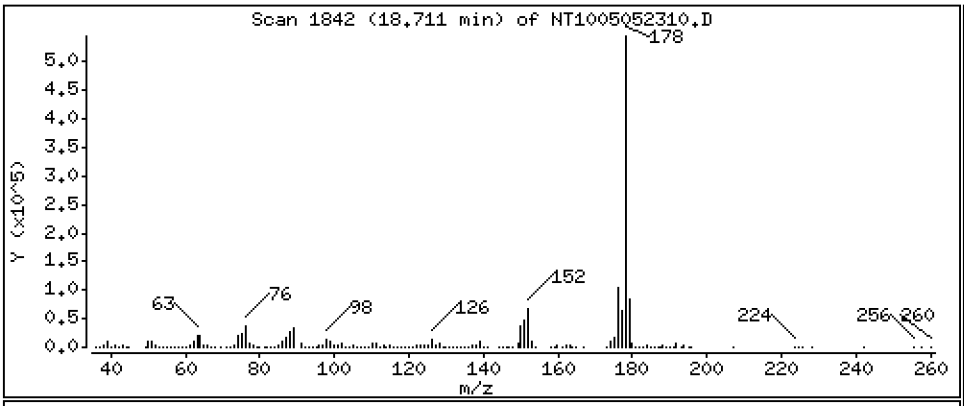
Operator: YZ

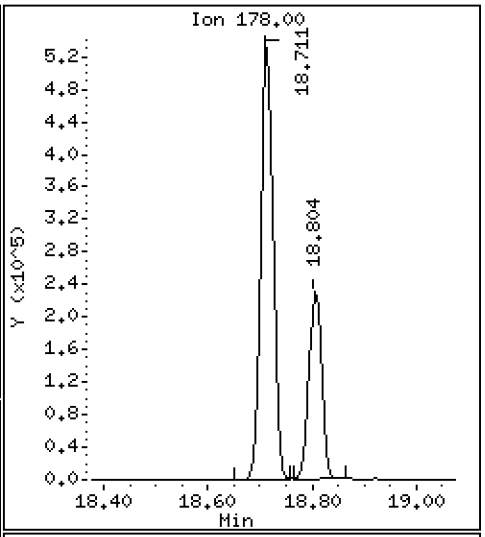
Column phase: ZB-5msi

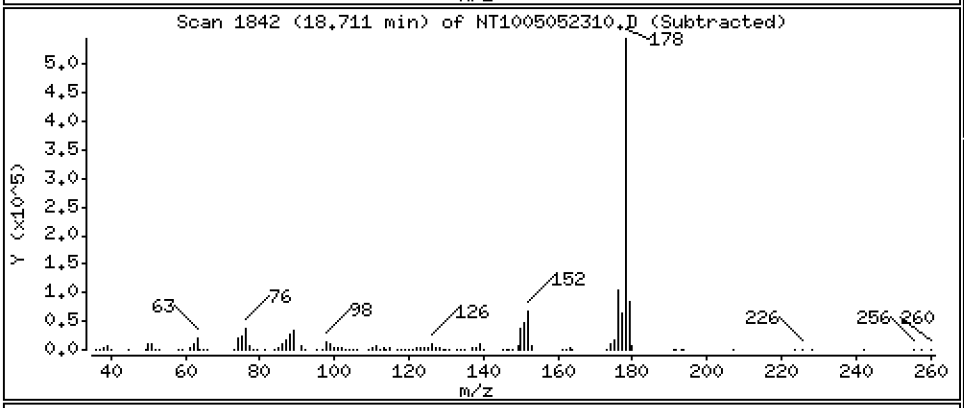
Column diameter: 0.25

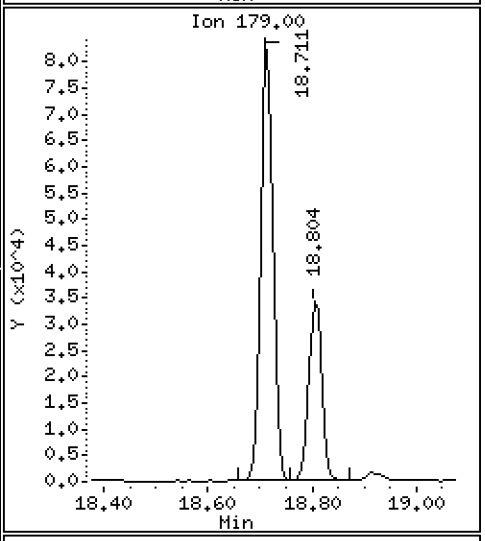
60 Phenanthrene

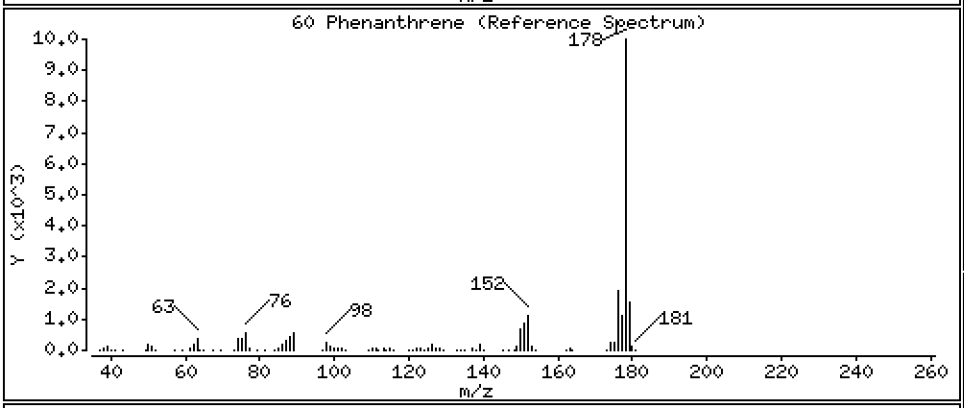
Concentration: 4.259 ug/mL

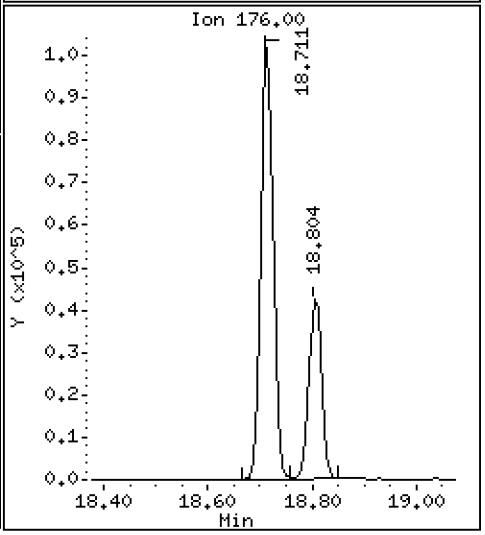


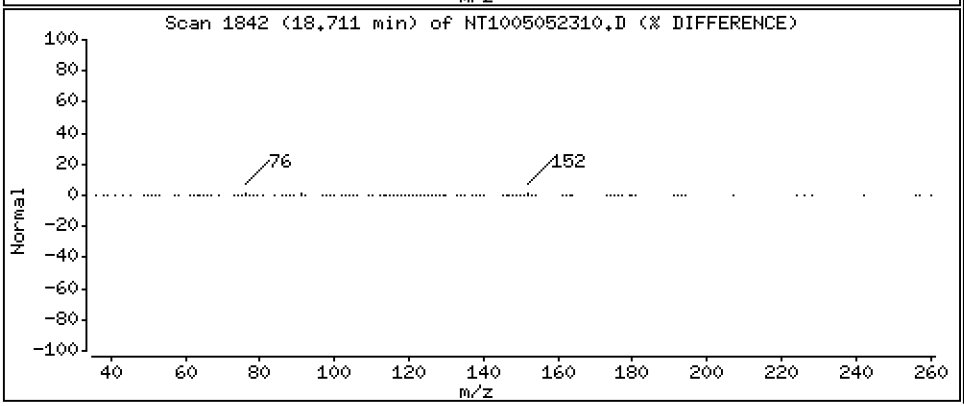












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

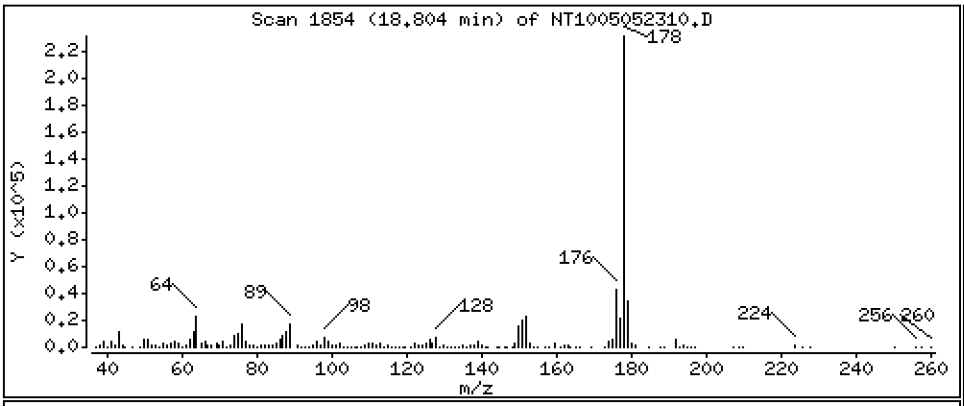
Operator: YZ

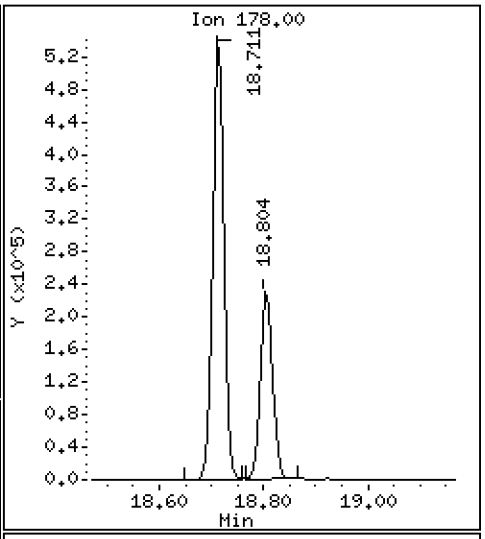
Column phase: ZB-5msi

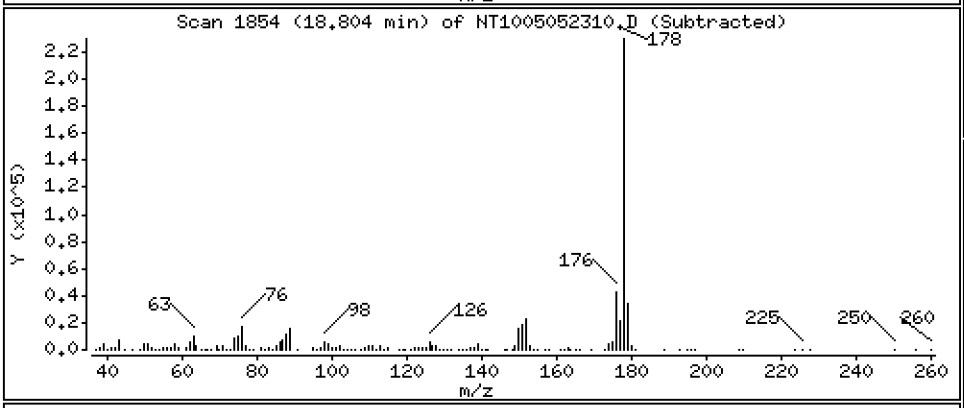
Column diameter: 0.25

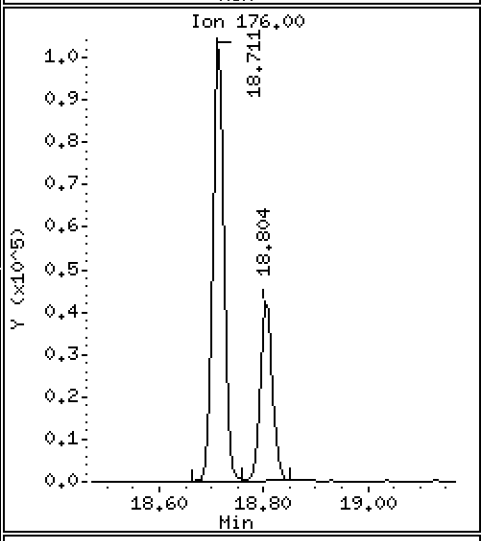
61 Anthracene

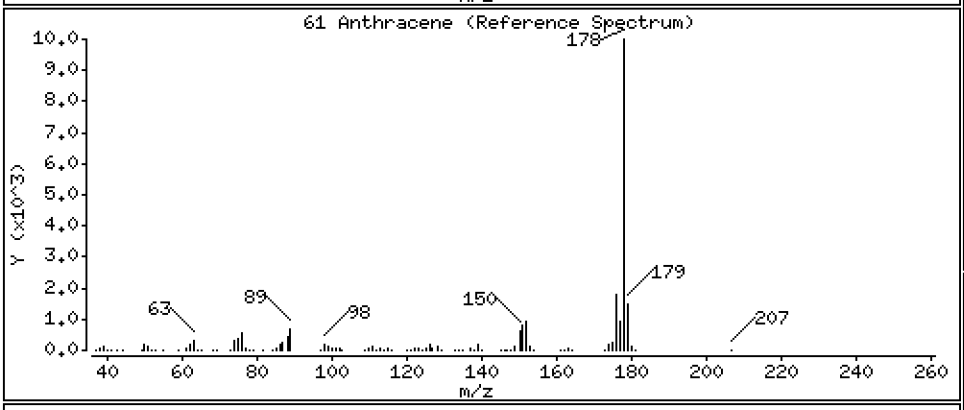
Concentration: 2.049 ug/mL

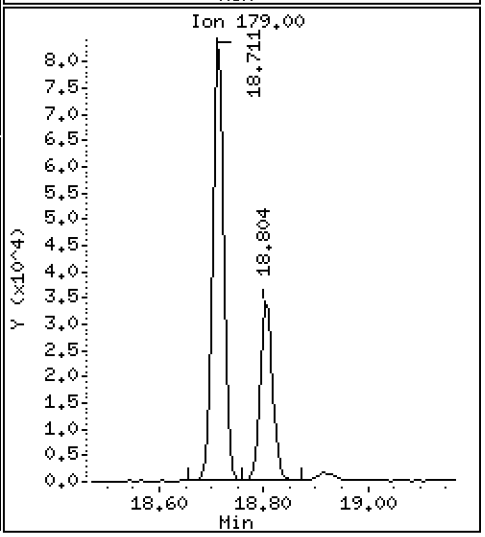


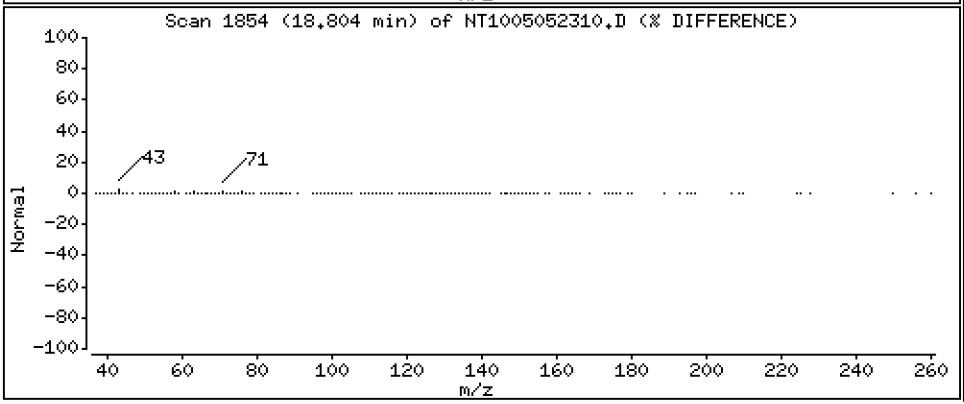












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

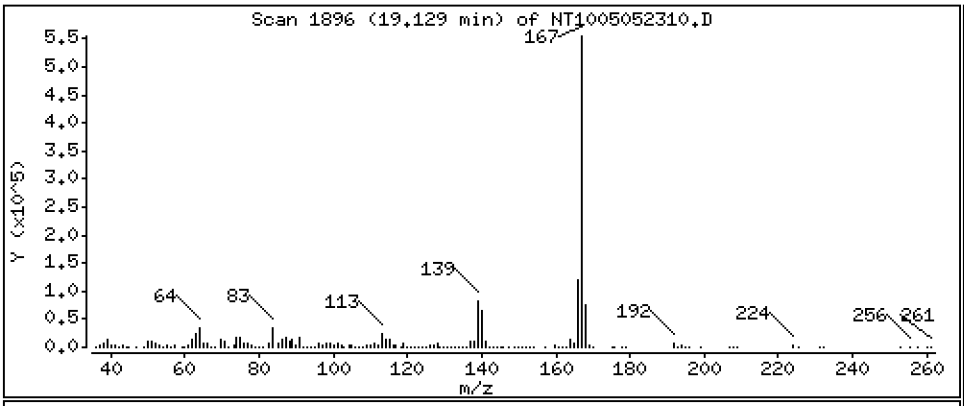
Operator: YZ

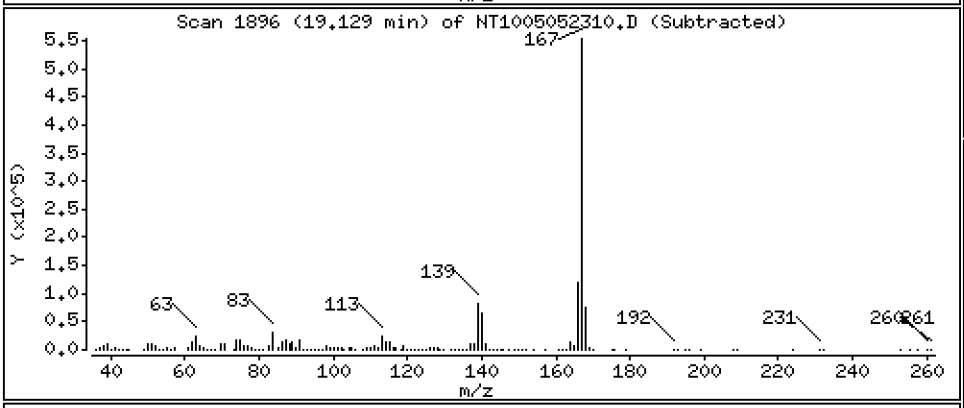
Column phase: ZB-5msi

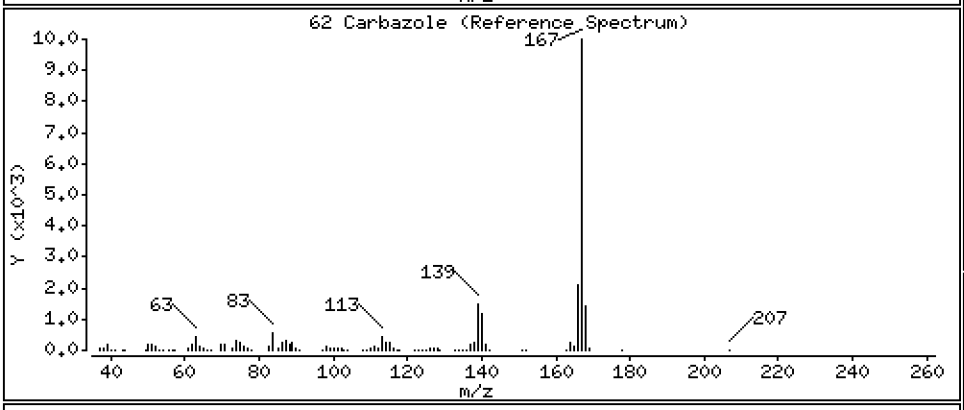
Column diameter: 0.25

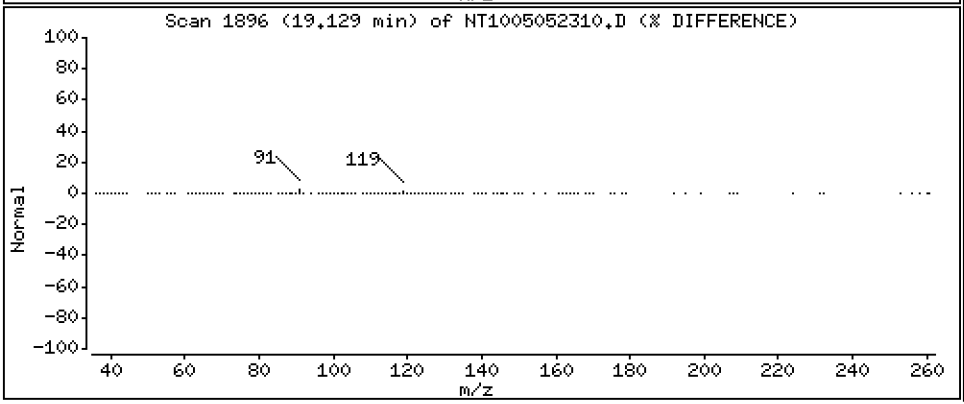
62 Carbazole

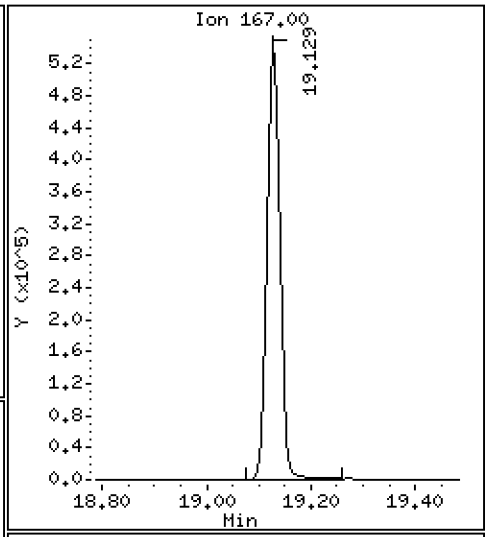
Concentration: 5.661 ug/mL

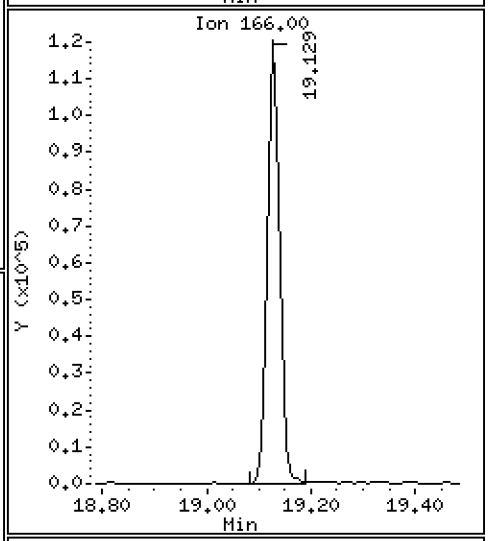


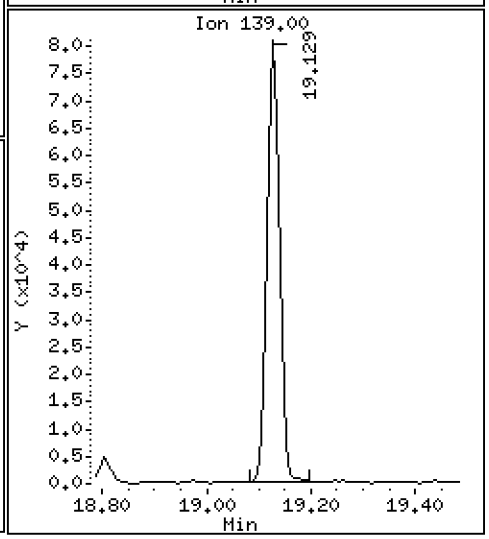












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

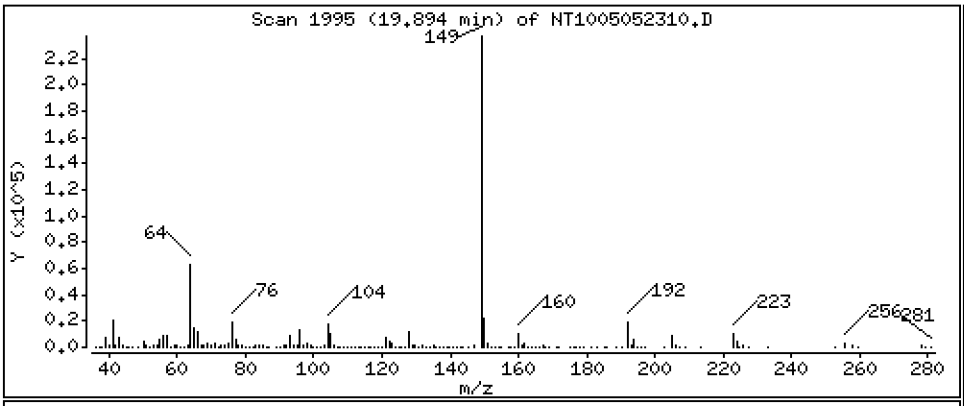
Operator: YZ

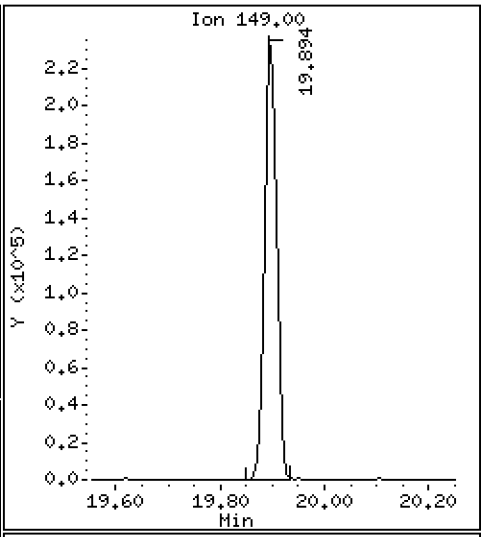
Column phase: ZB-5msi

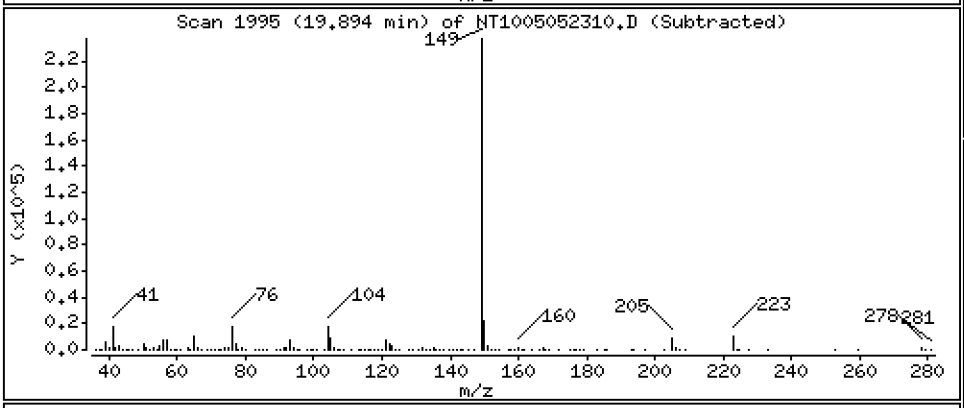
Column diameter: 0.25

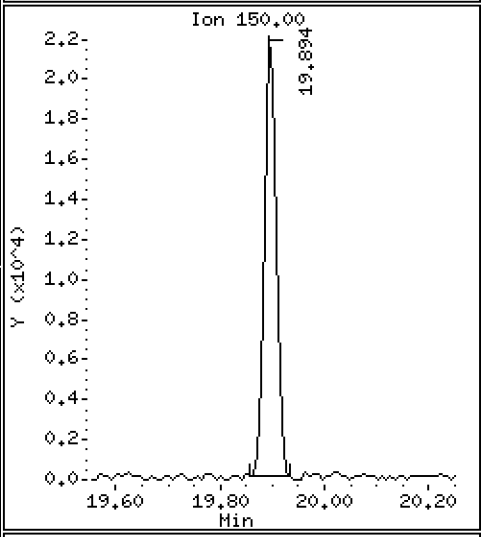
63 Di-n-butylphthalate

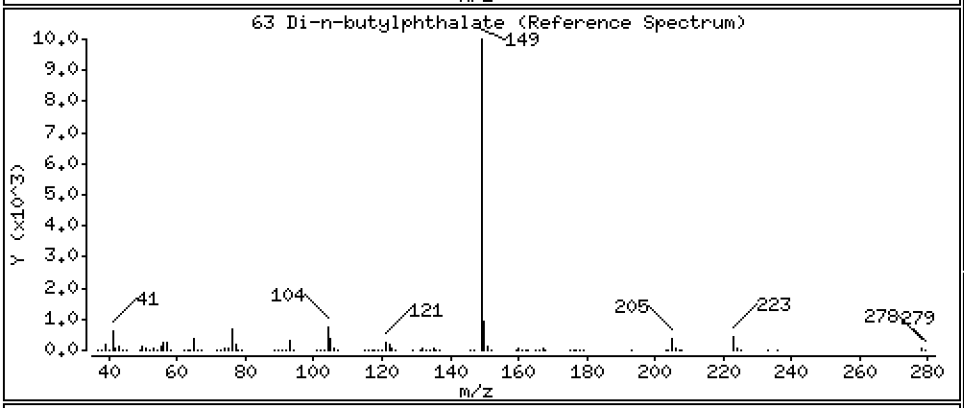
Concentration: 1.478 ug/mL

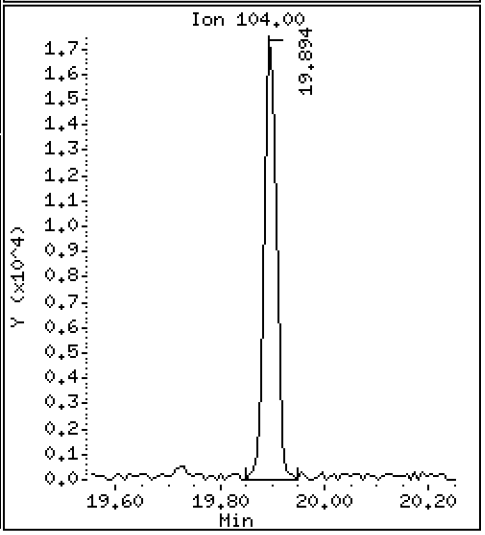


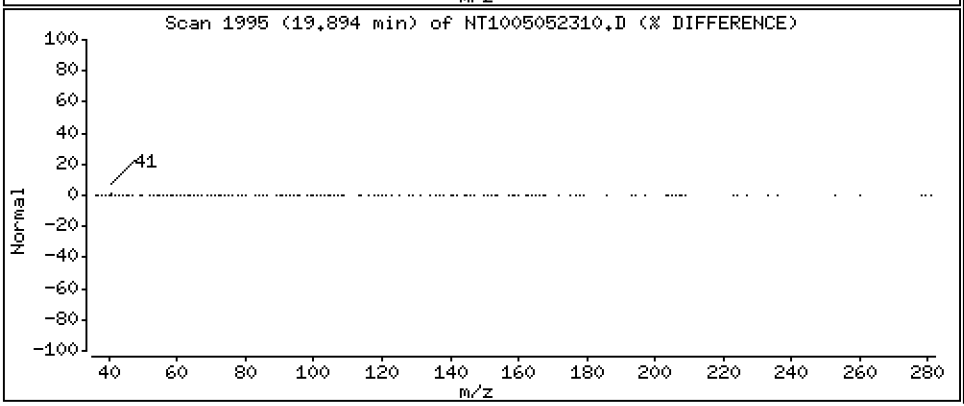












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

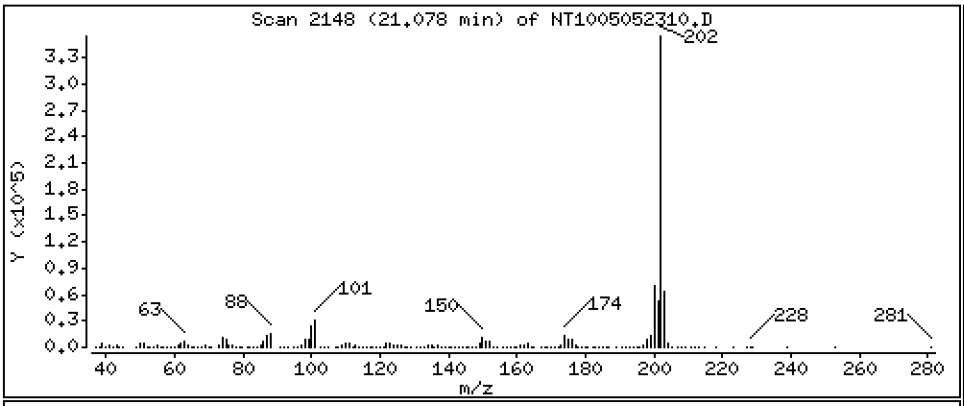
Operator: YZ

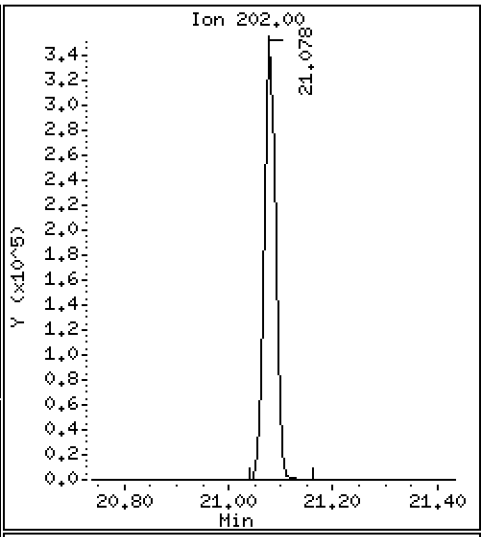
Column phase: ZB-5msi

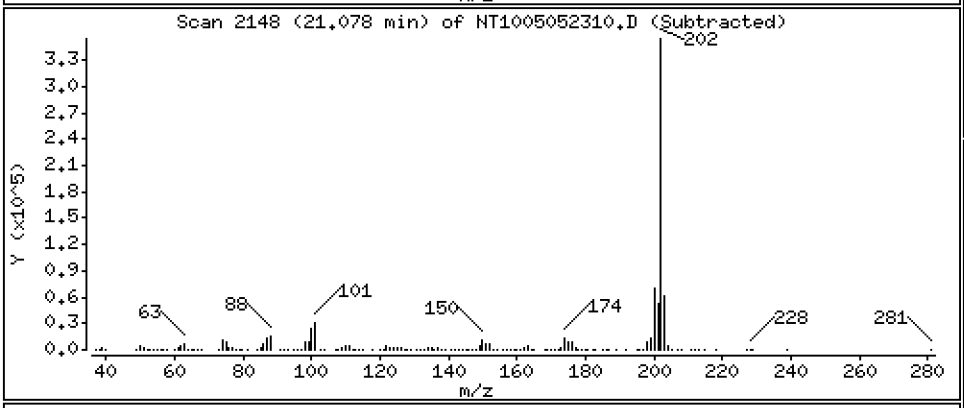
Column diameter: 0.25

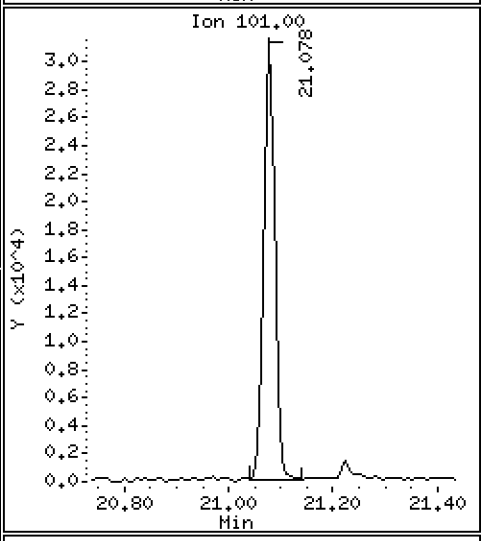
64 Fluoranthene

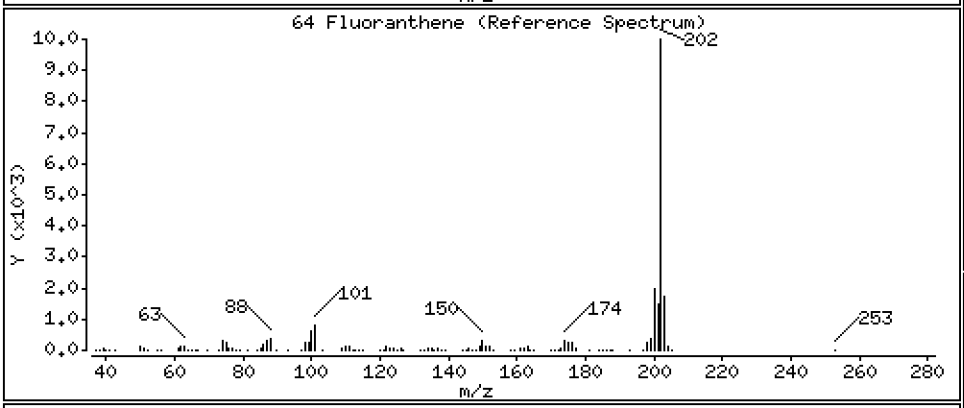
Concentration: 2.181 ug/mL

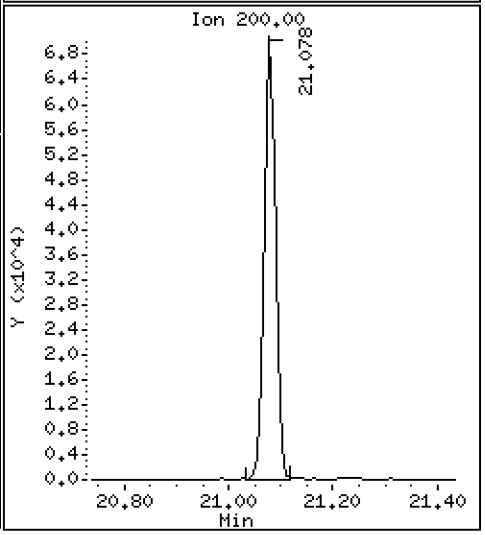


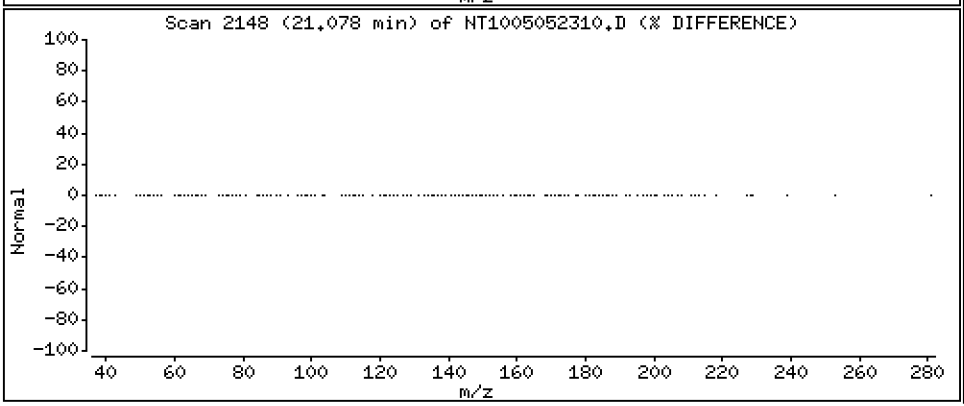












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

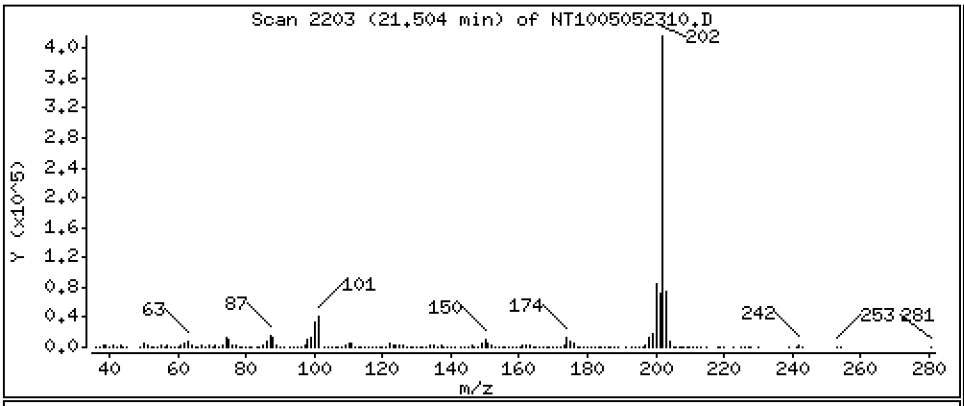
Operator: YZ

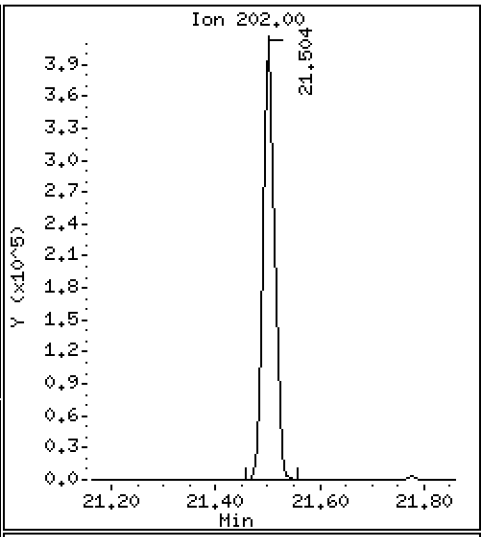
Column phase: ZB-5msi

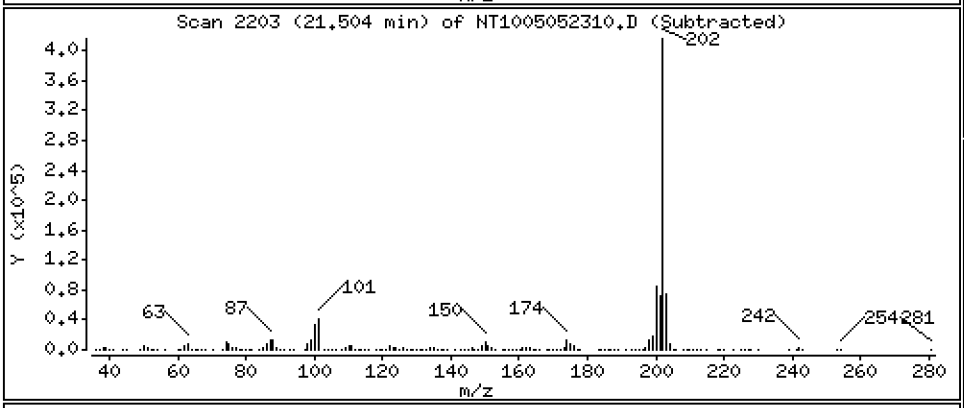
Column diameter: 0.25

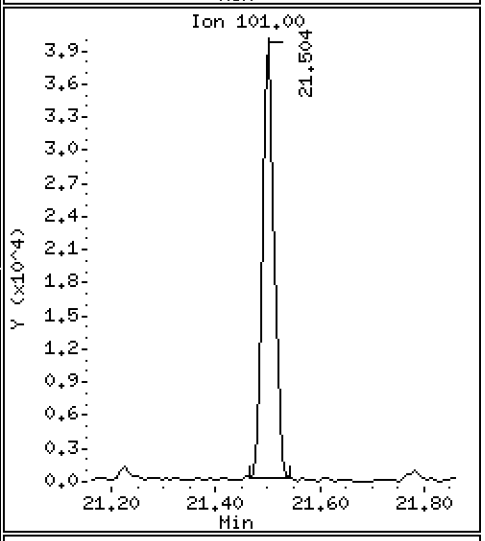
65 Pyrene

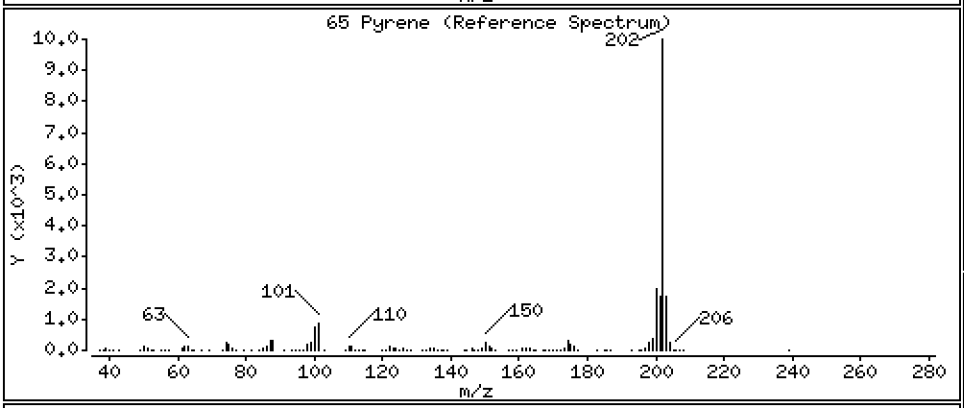
Concentration: 2.737 ug/mL

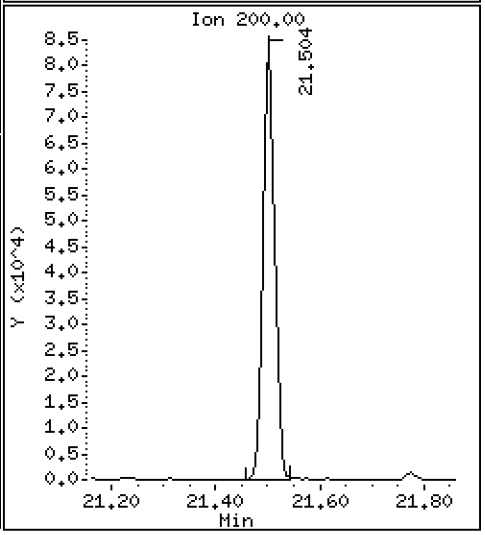


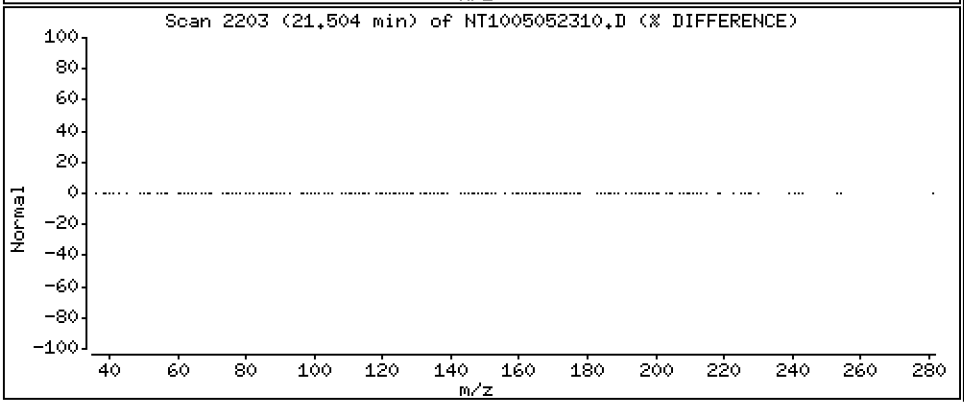












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

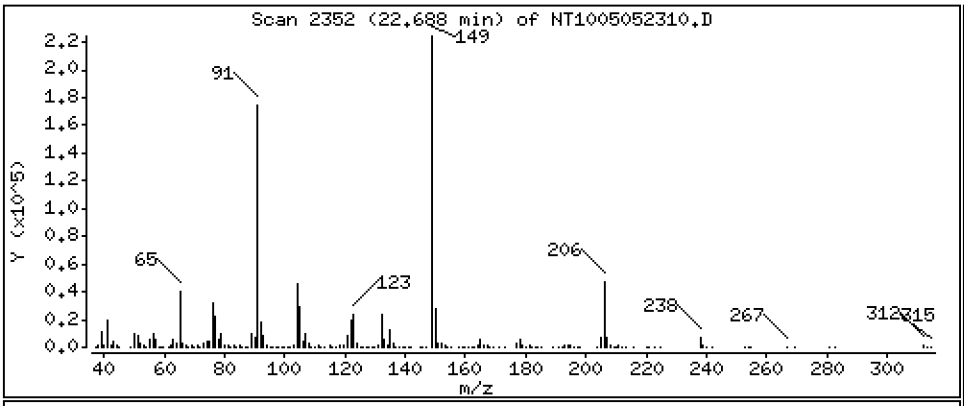
Operator: YZ

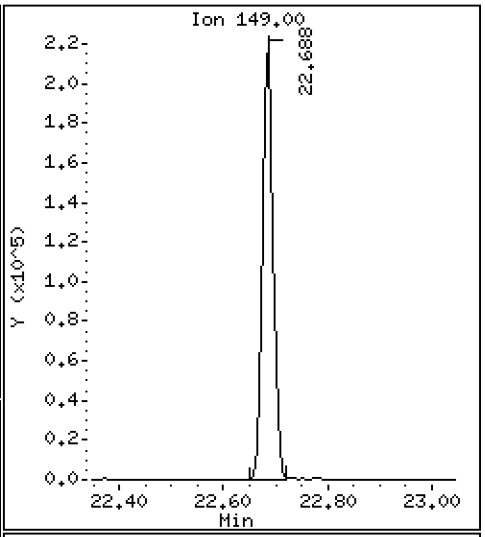
Column phase: ZB-5msi

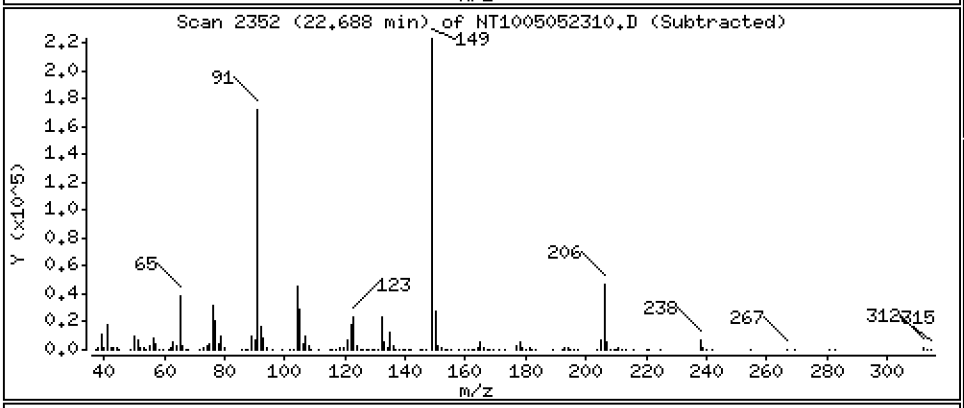
Column diameter: 0.25

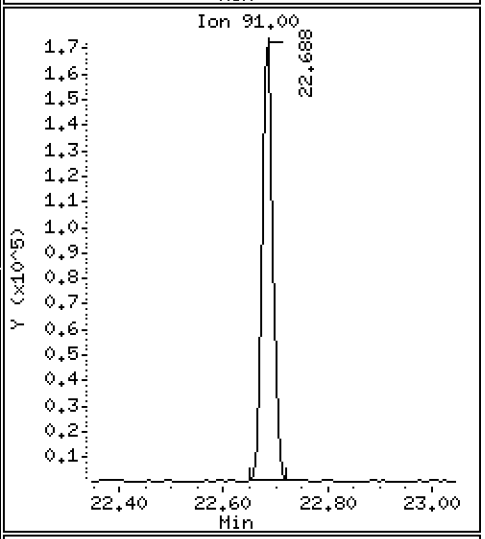
67 Butylbenzylphthalate

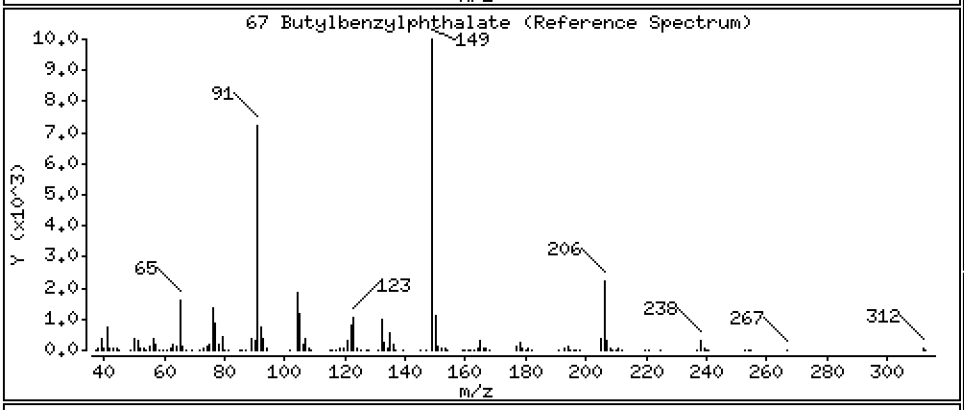
Concentration: 2.991 ug/mL

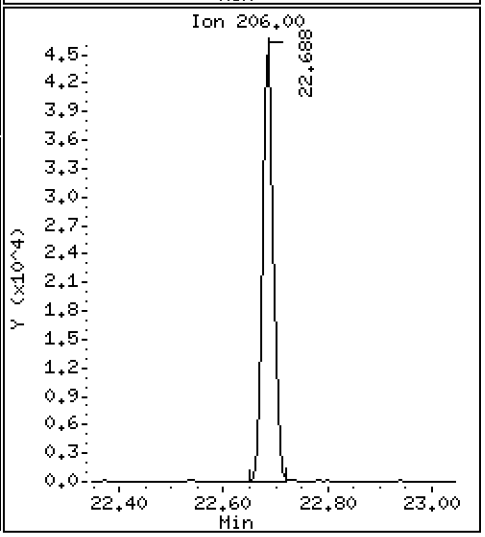


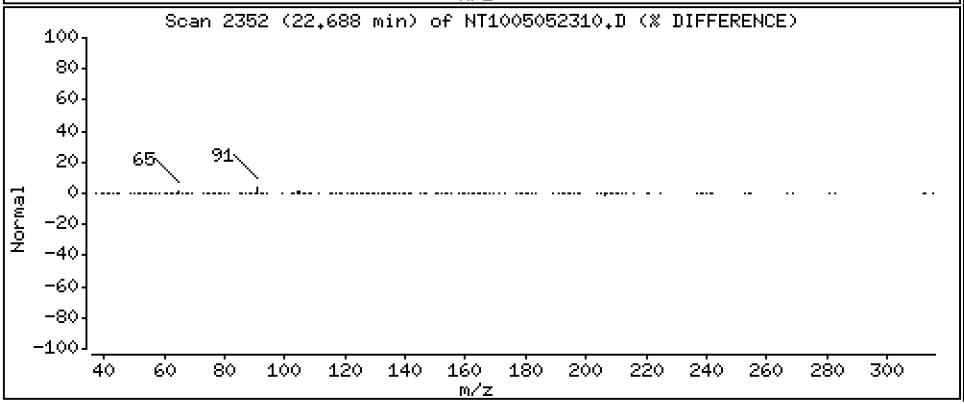












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

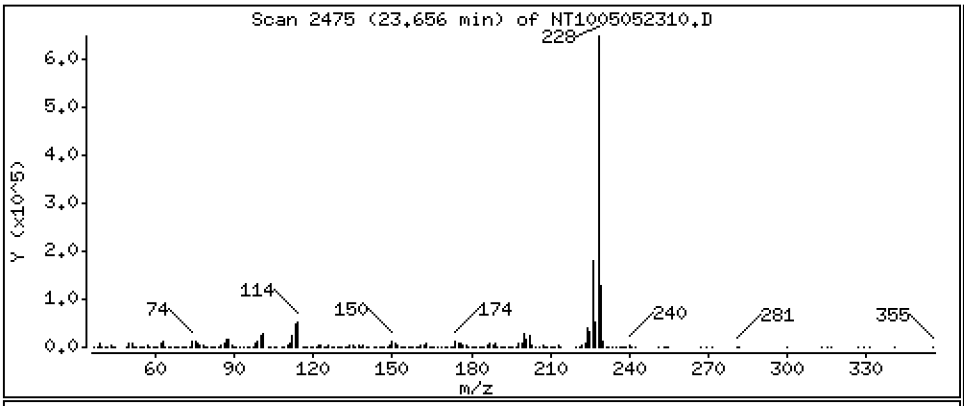
Operator: YZ

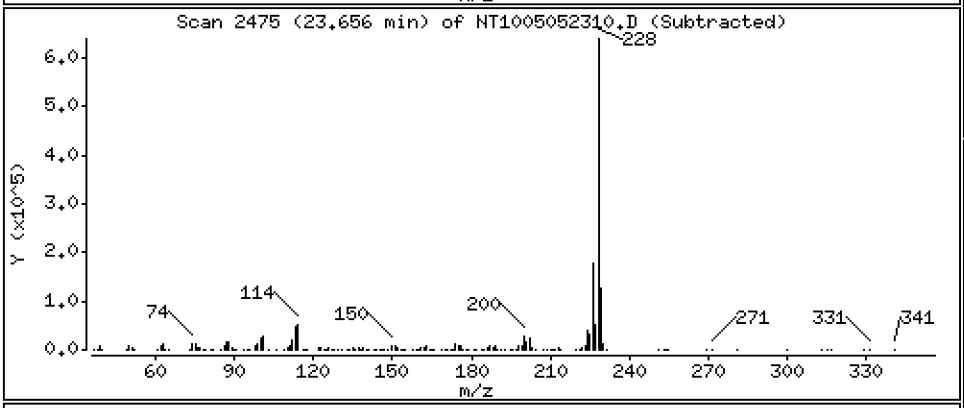
Column phase: ZB-5msi

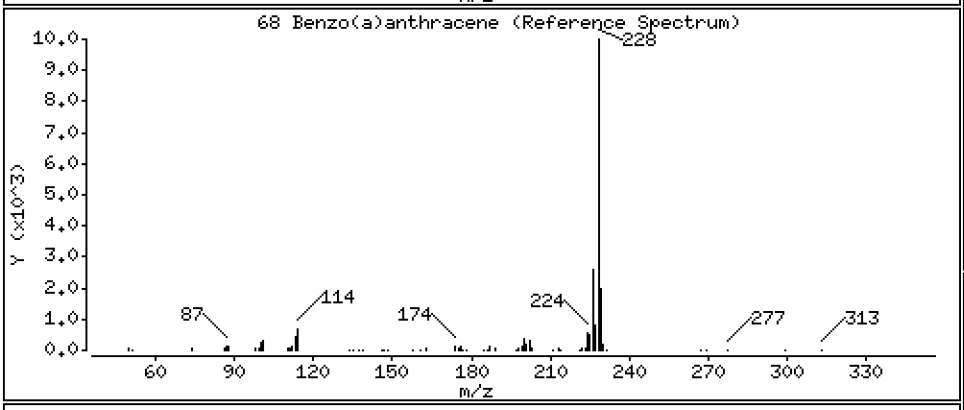
Column diameter: 0.25

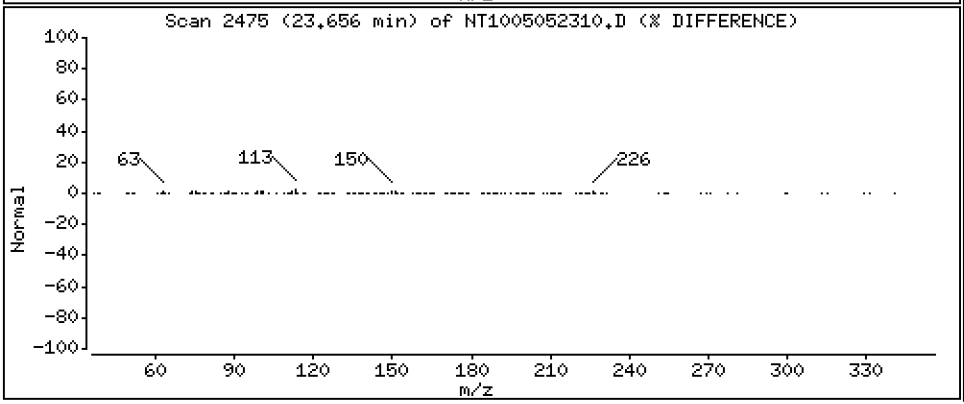
68 Benzo(a)anthracene

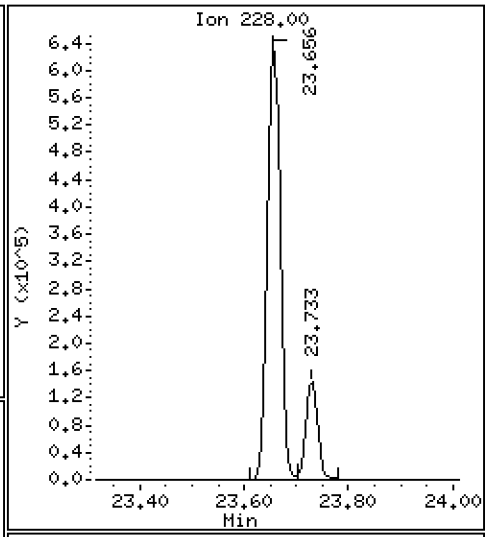
Concentration: 5.192 ug/mL

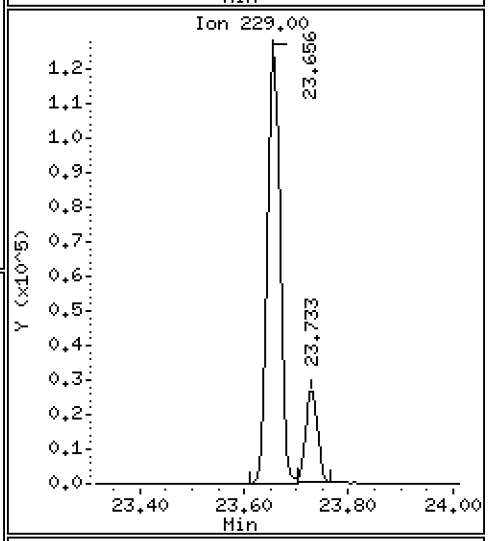


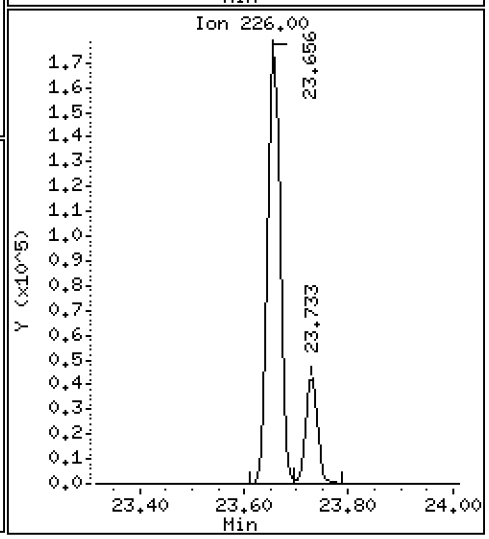












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

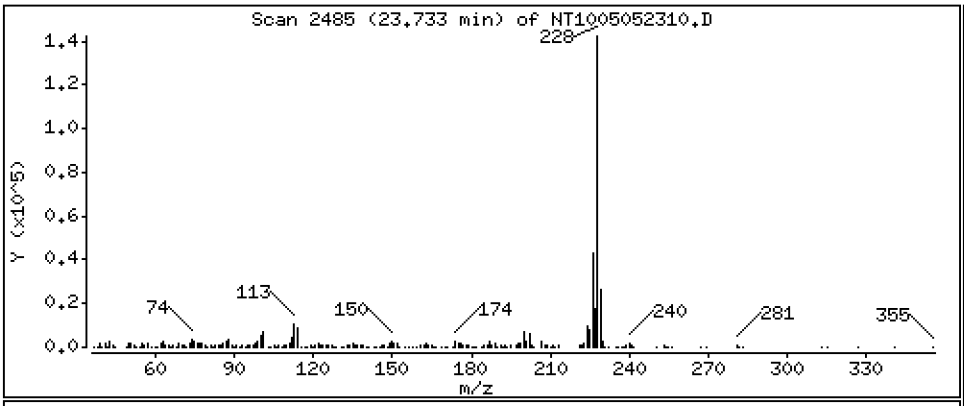
Operator: YZ

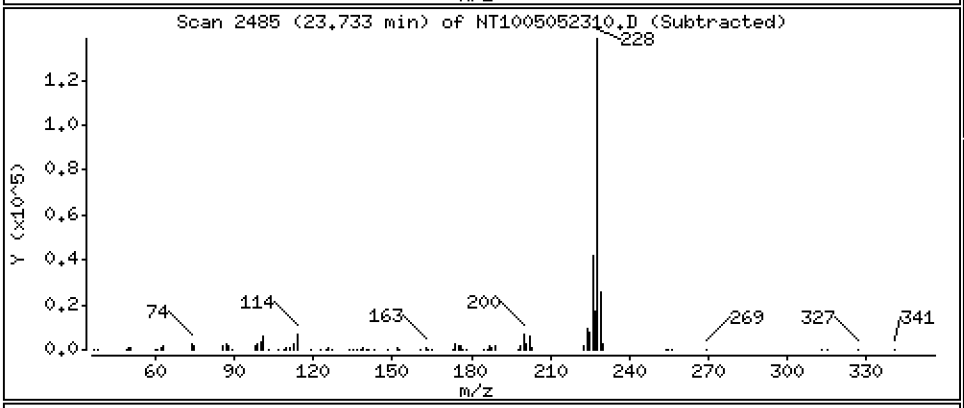
Column phase: ZB-5msi

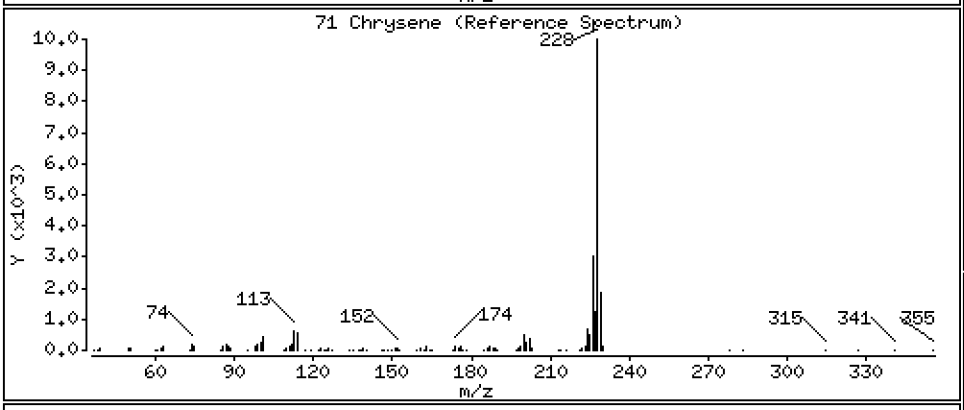
Column diameter: 0.25

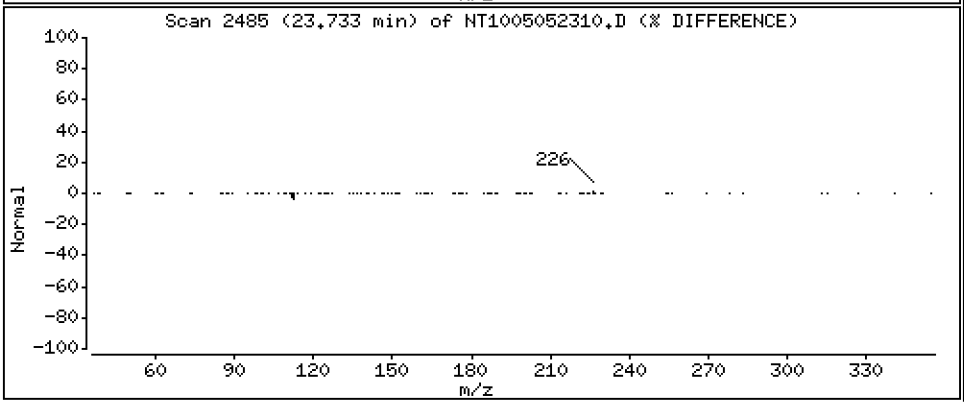
71 Chrysene

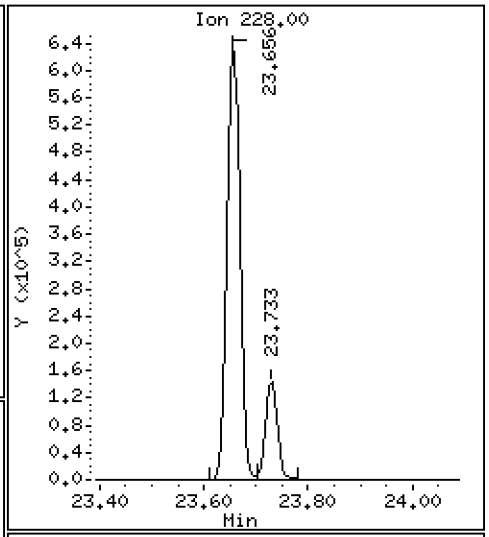
Concentration: 1.201 ug/mL

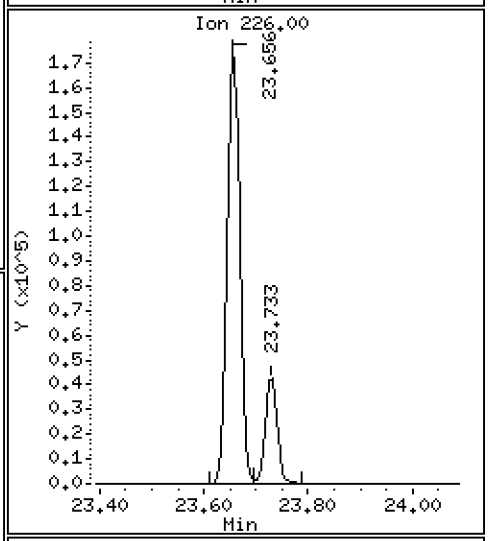


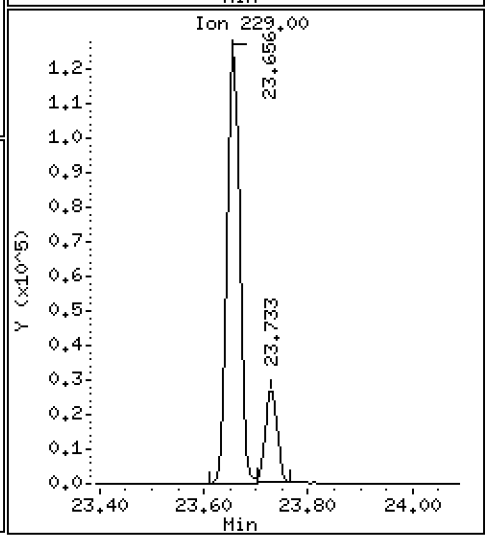












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

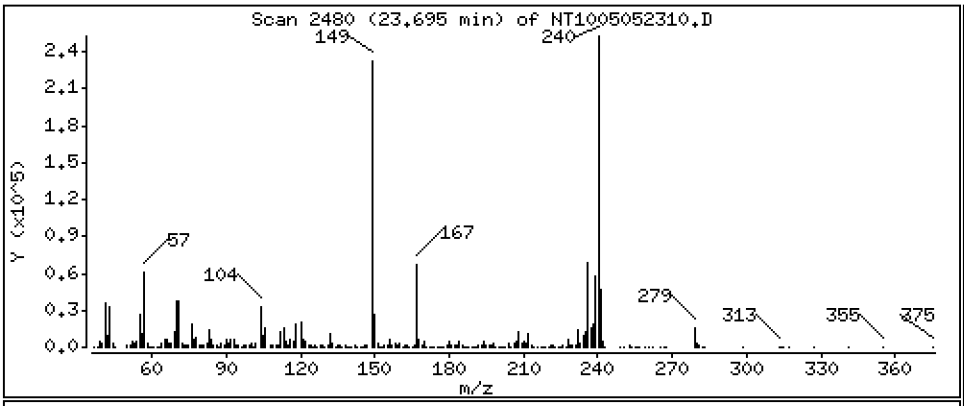
Operator: YZ

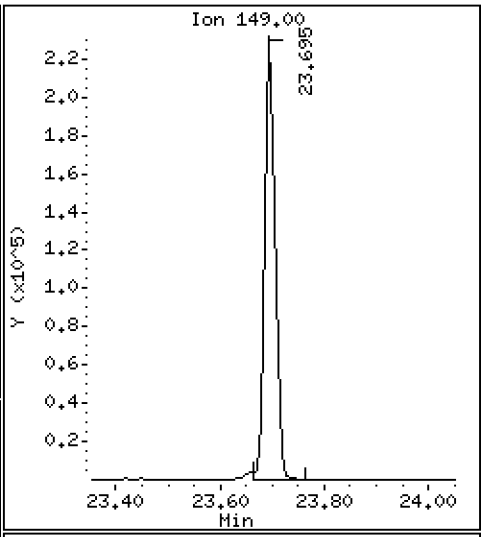
Column phase: ZB-5msi

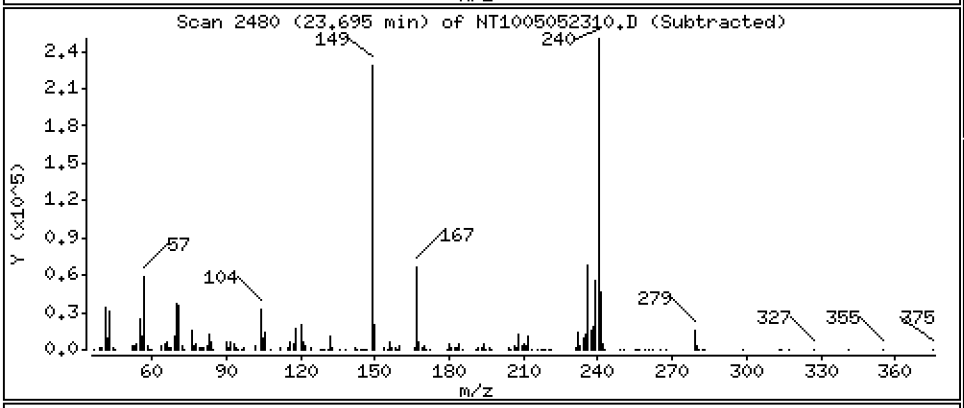
Column diameter: 0.25

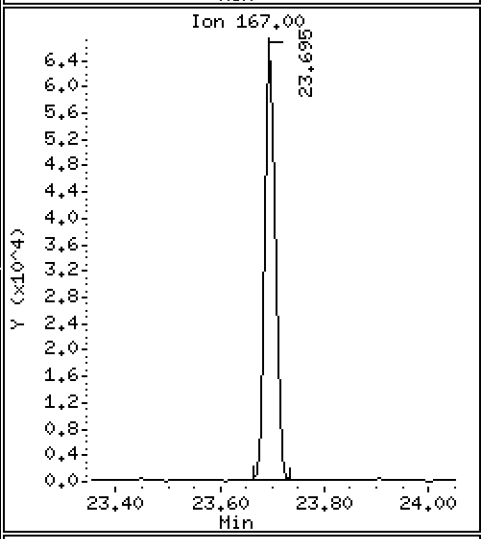
72 bis(2-Ethylhexyl)phthalate

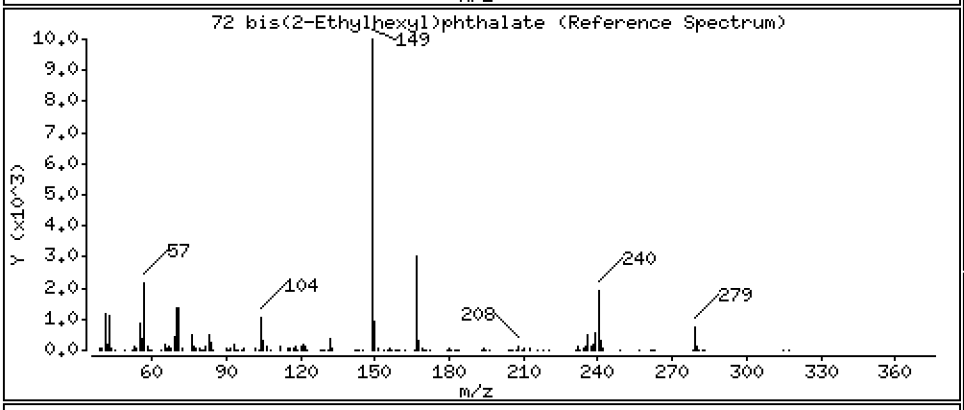
Concentration: 2.283 ug/mL

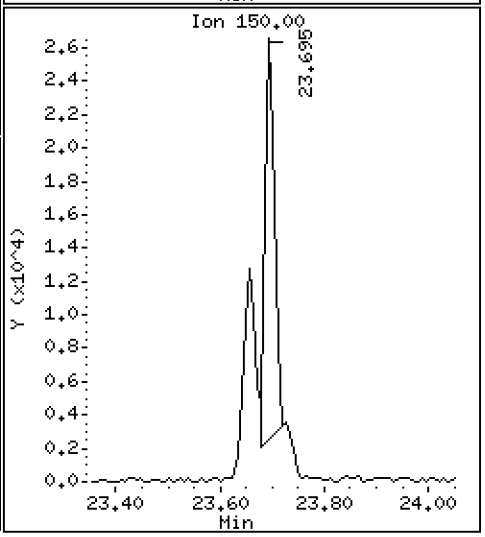


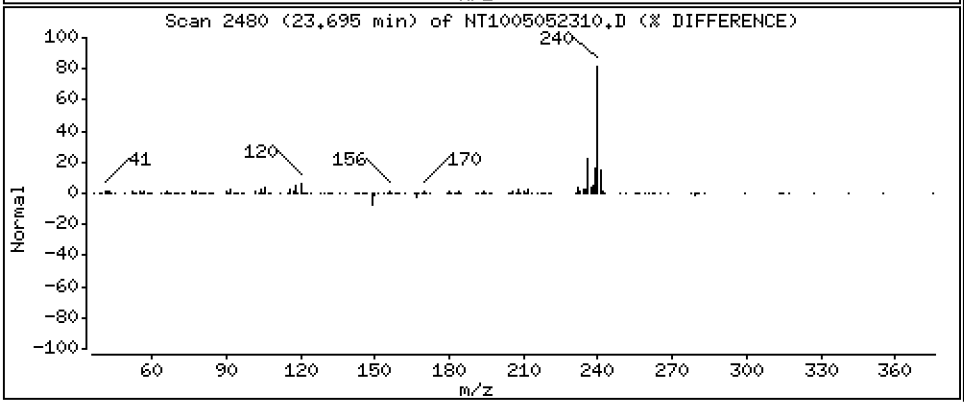












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

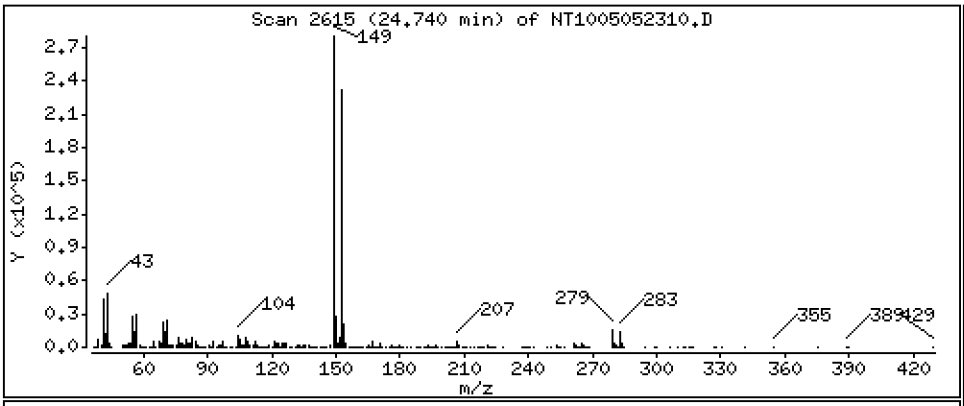
Operator: YZ

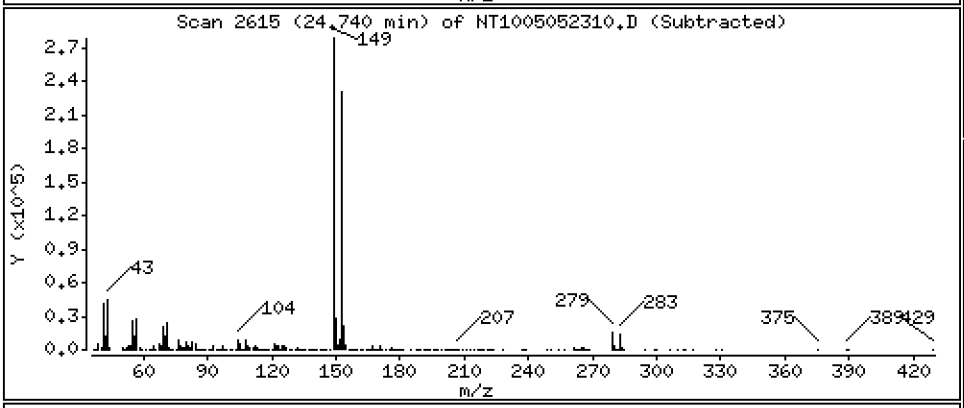
Column phase: ZB-5msi

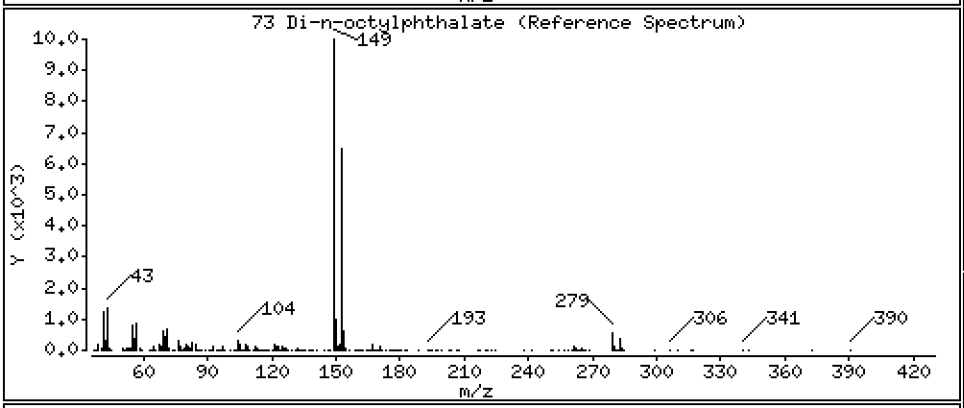
Column diameter: 0.25

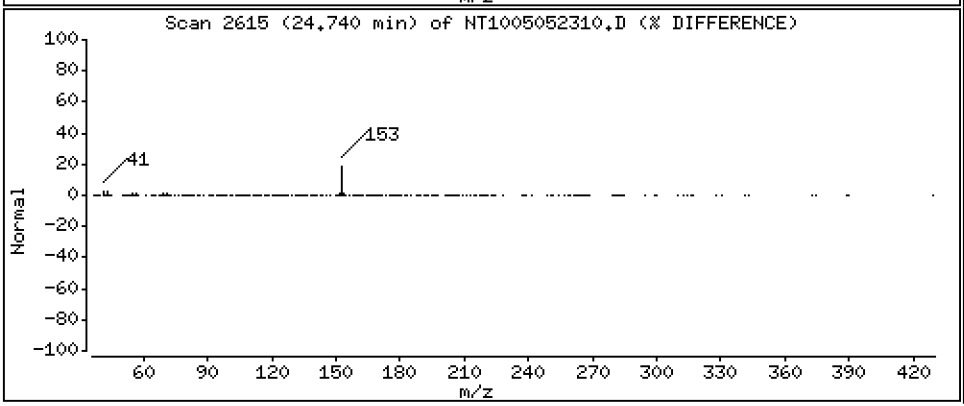
73 Di-n-octylphthalate

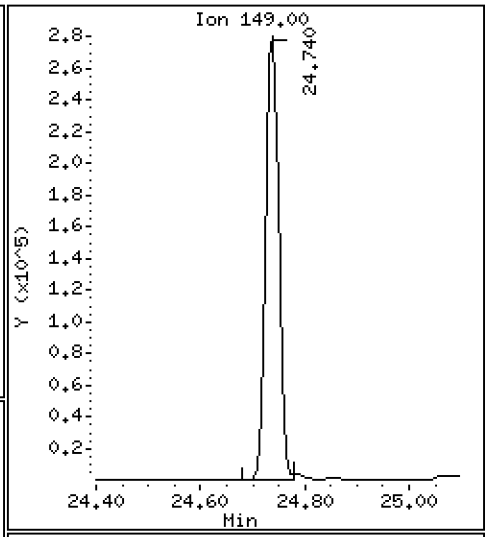
Concentration: 1.883 ug/mL

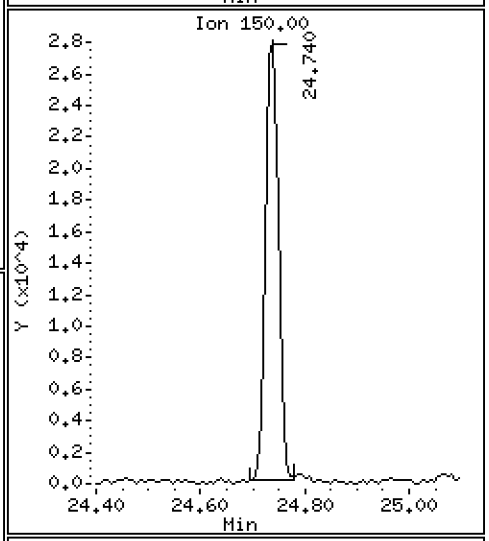


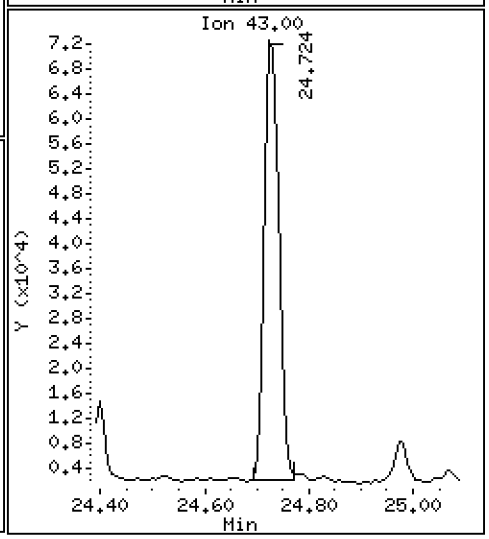












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

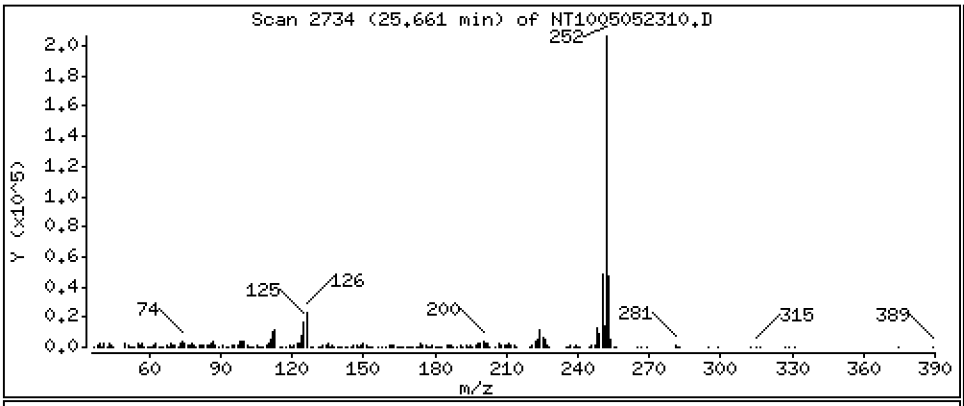
Operator: YZ

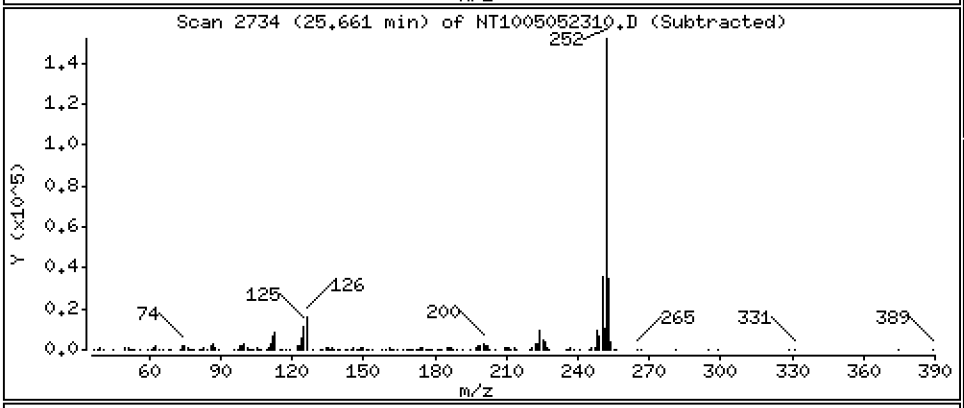
Column phase: ZB-5msi

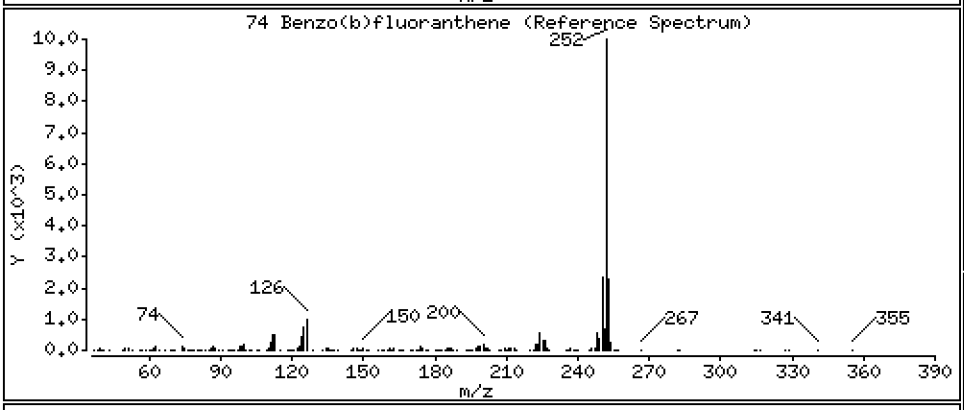
Column diameter: 0.25

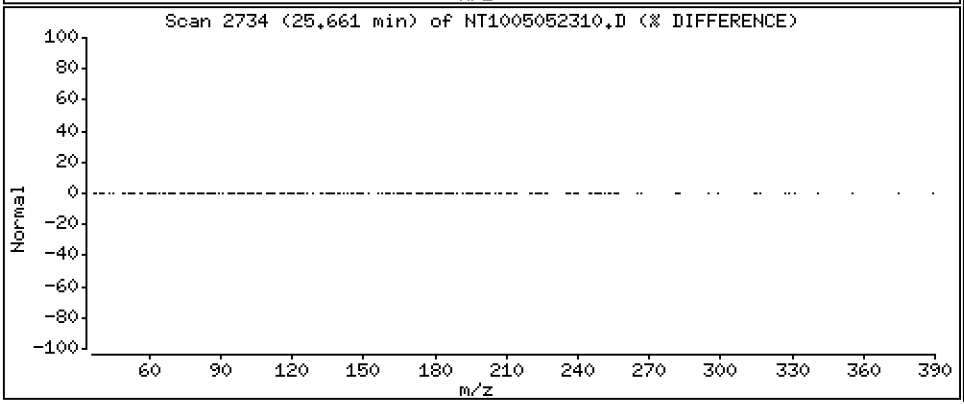
74 Benzo(b)fluoranthene

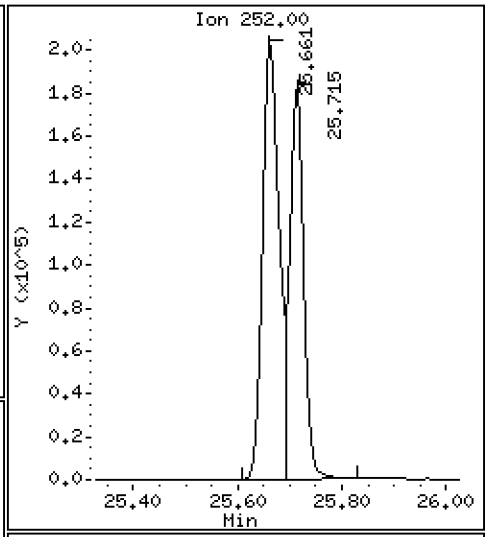
Concentration: 2.434 ug/mL

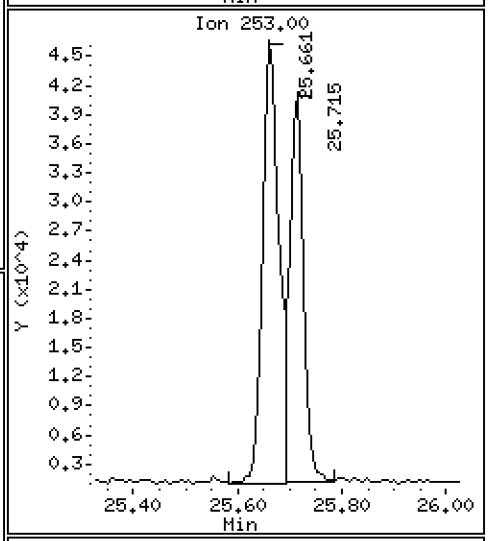


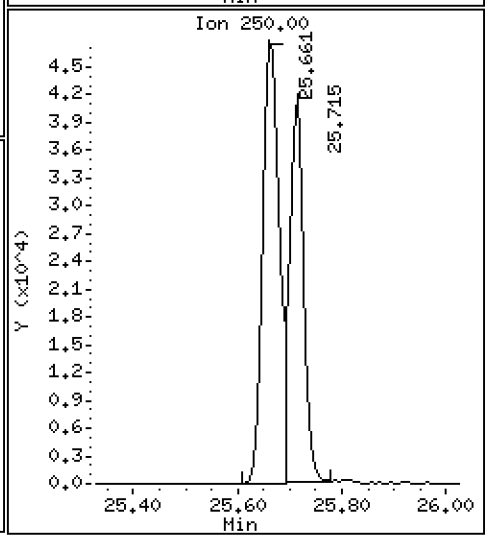












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

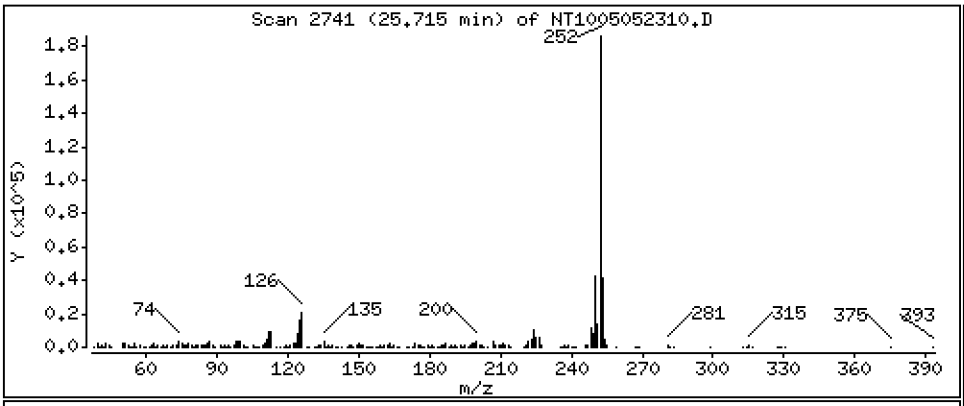
Operator: YZ

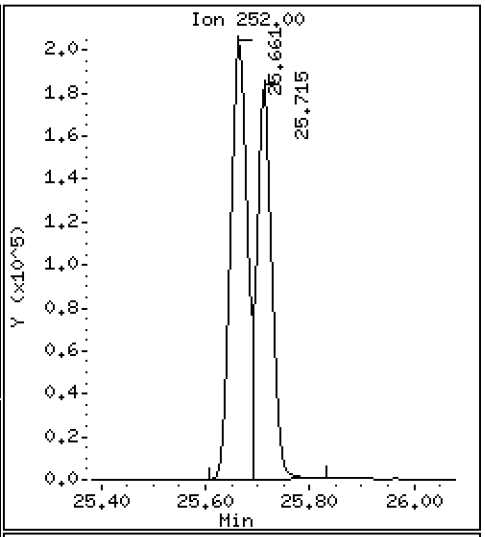
Column phase: ZB-5msi

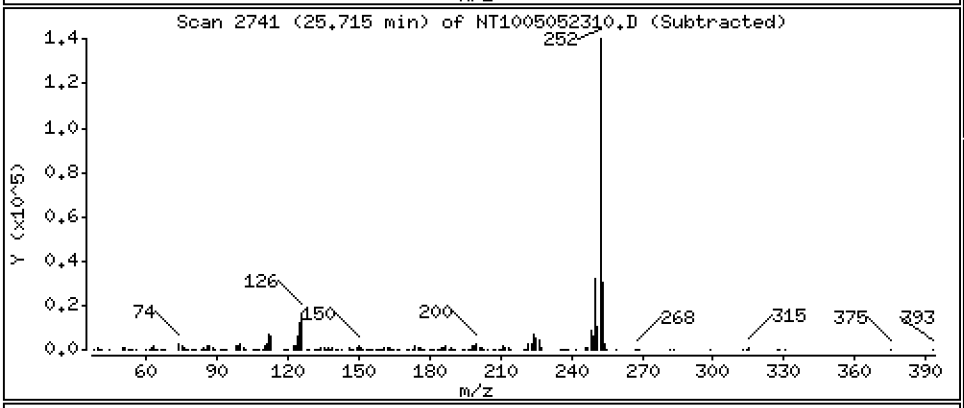
Column diameter: 0.25

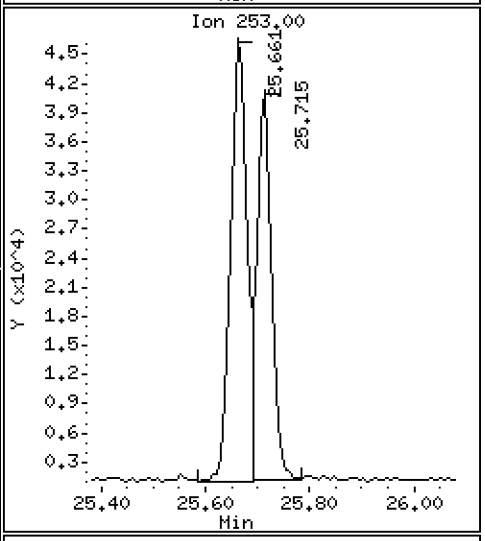
75 Benzo(k)fluoranthene

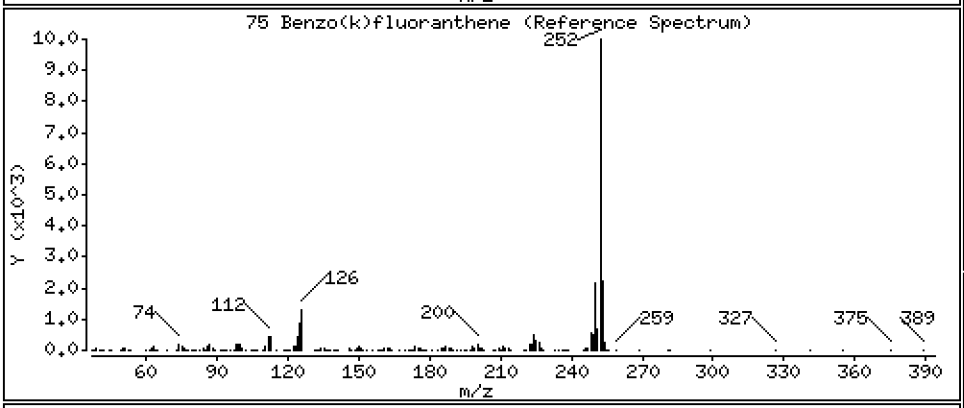
Concentration: 1.935 ug/mL

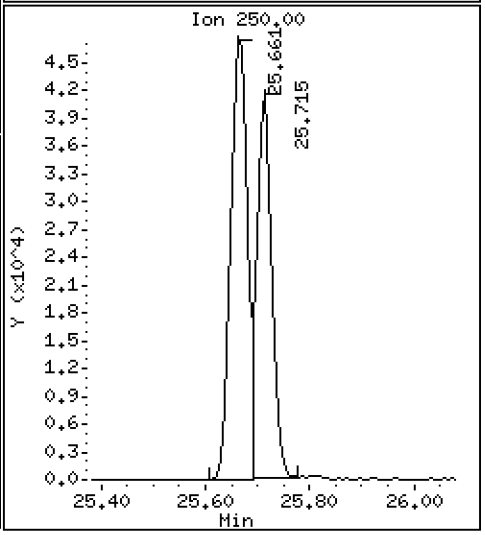


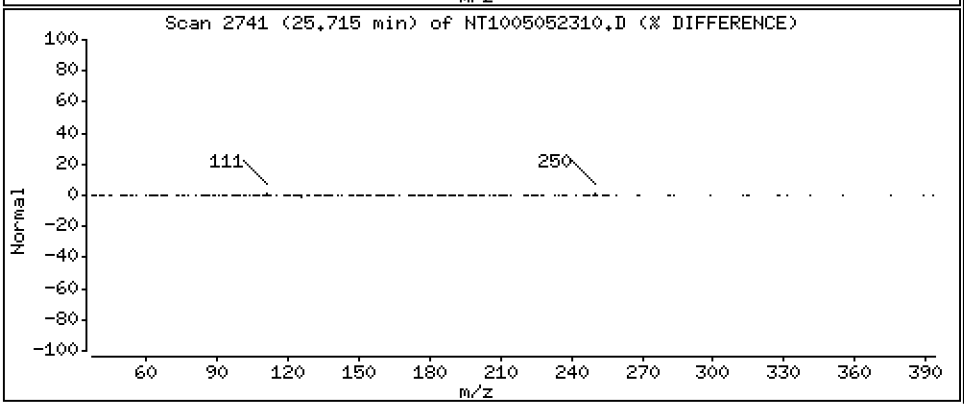












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

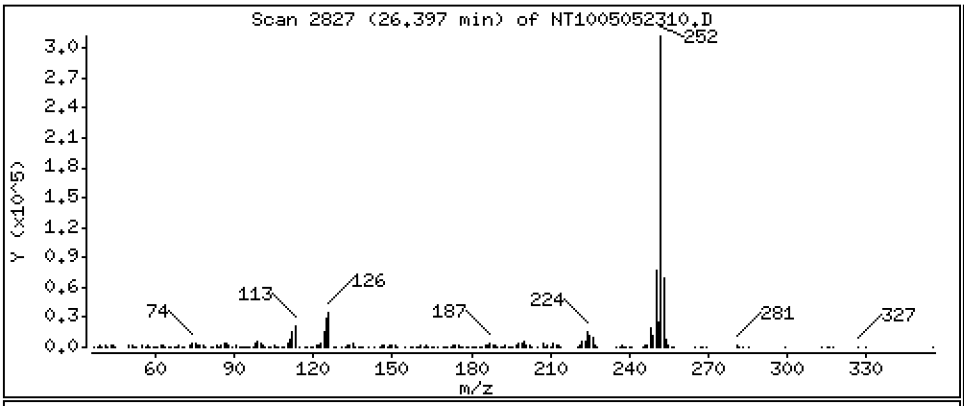
Operator: YZ

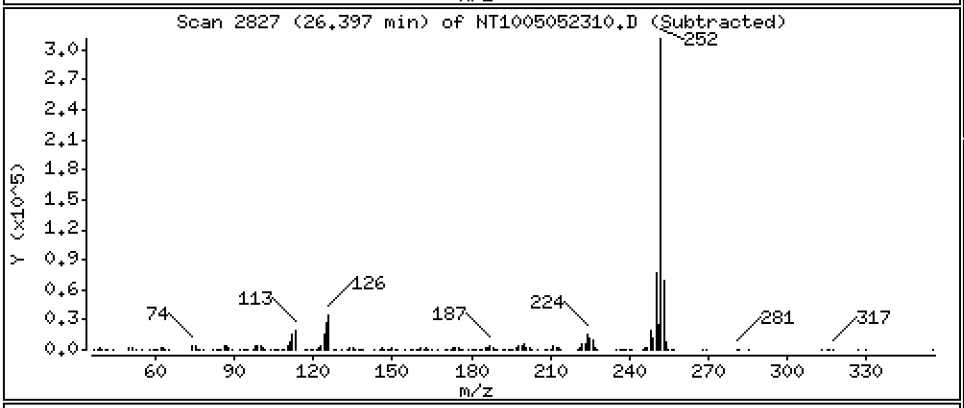
Column phase: ZB-5msi

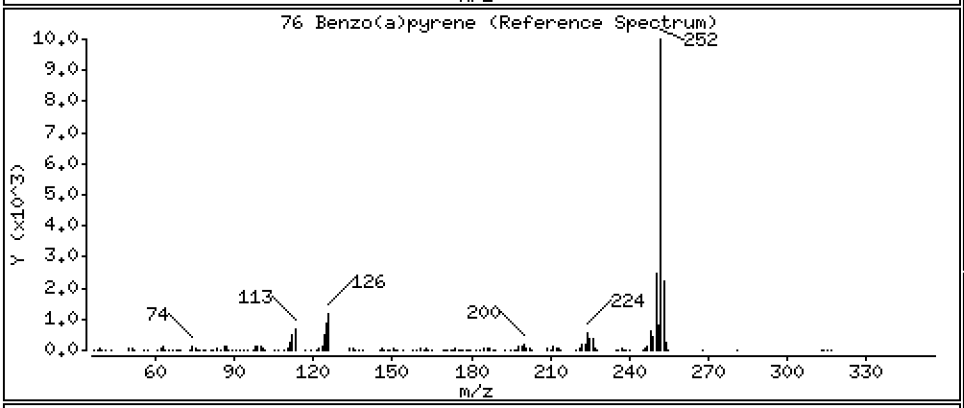
Column diameter: 0.25

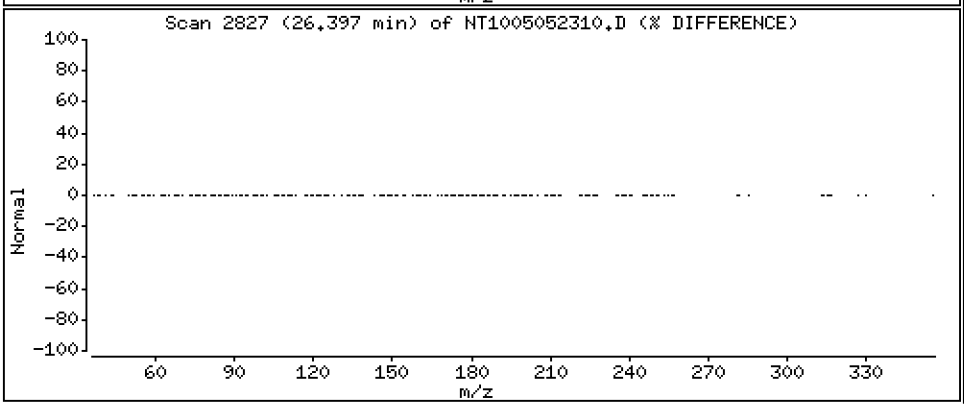
76 Benzo(a)pyrene

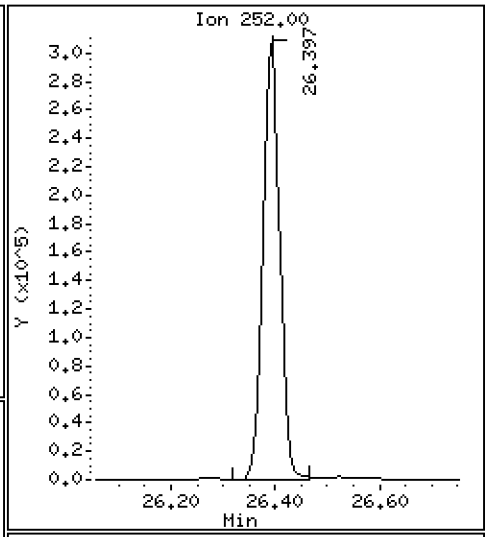
Concentration: 4.288 ug/mL

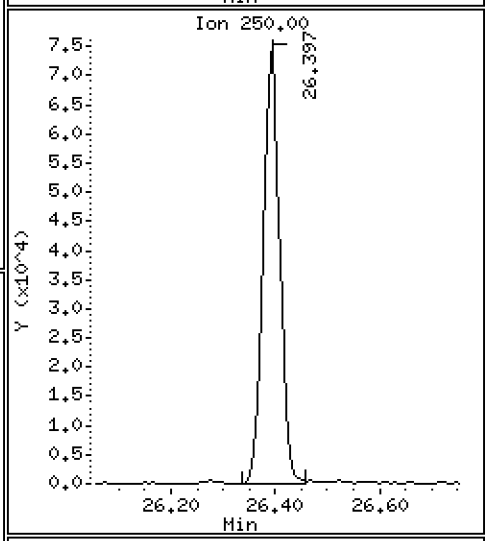


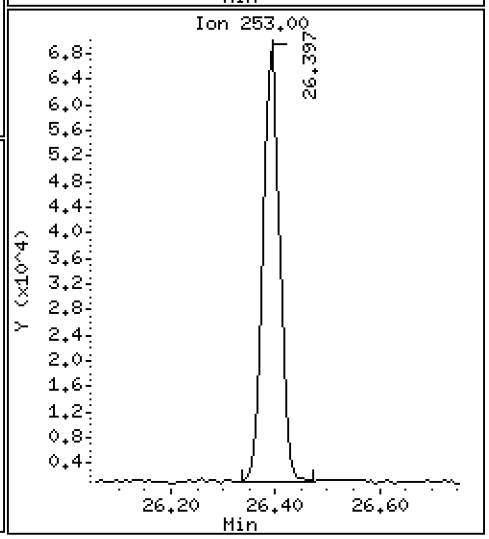












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

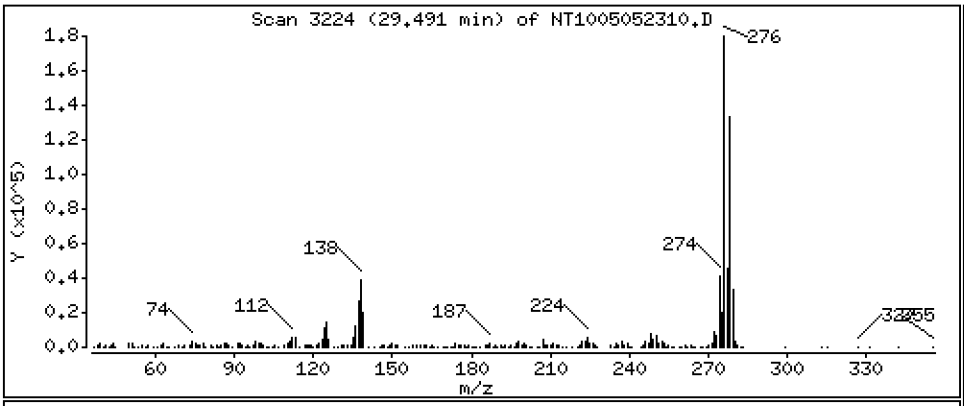
Operator: YZ

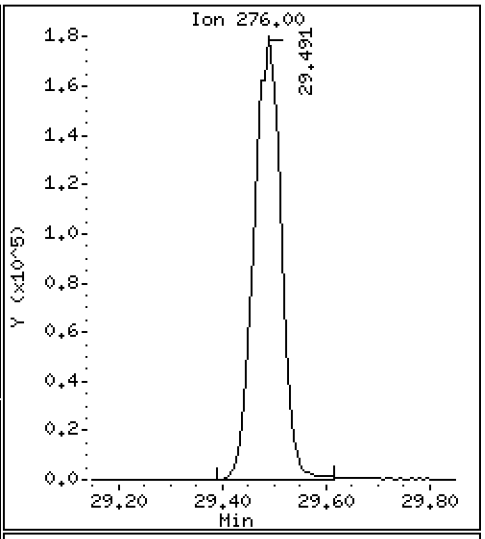
Column phase: ZB-5msi

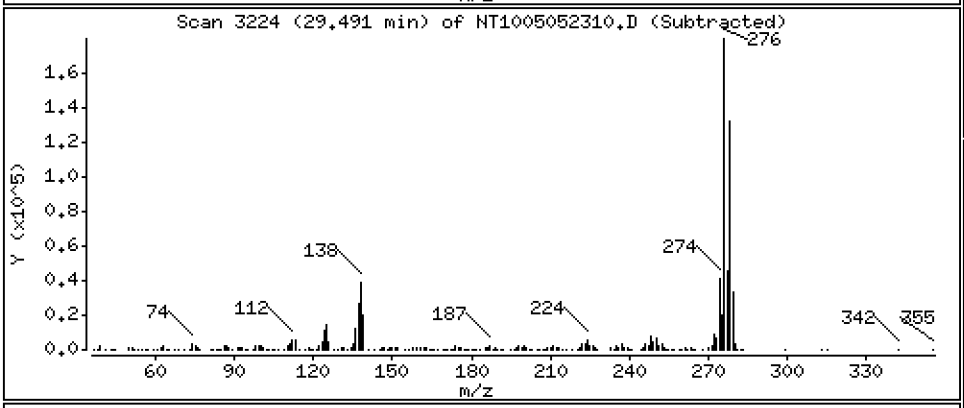
Column diameter: 0.25

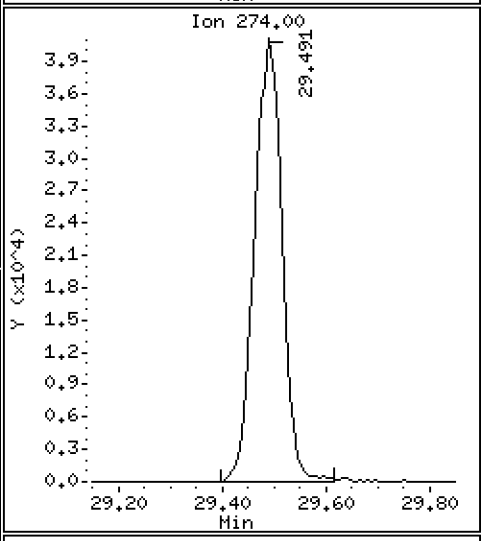
78 Indeno(1,2,3-cd)pyrene

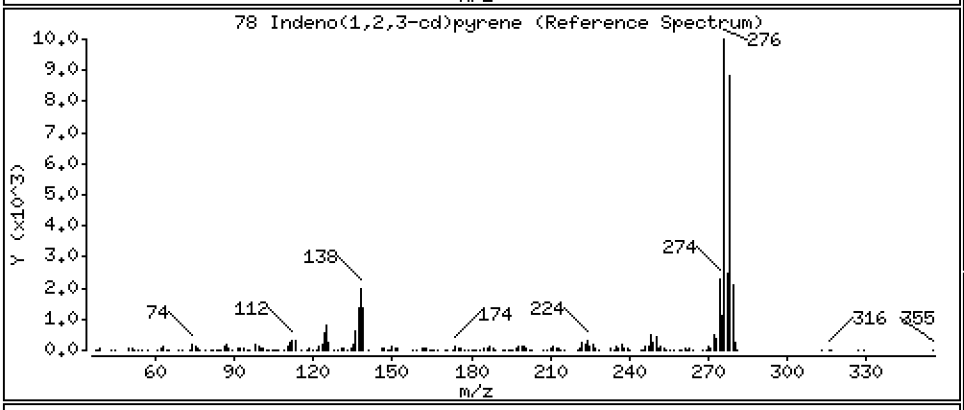
Concentration: 3.410 ug/mL

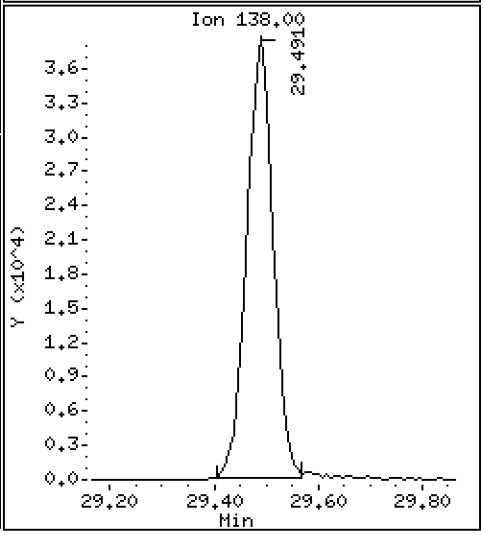


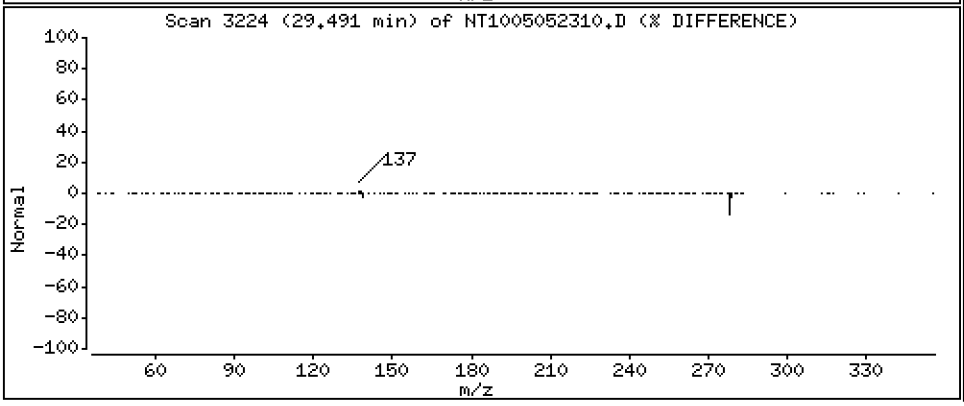












Date : 05-MAY-2023 16:36

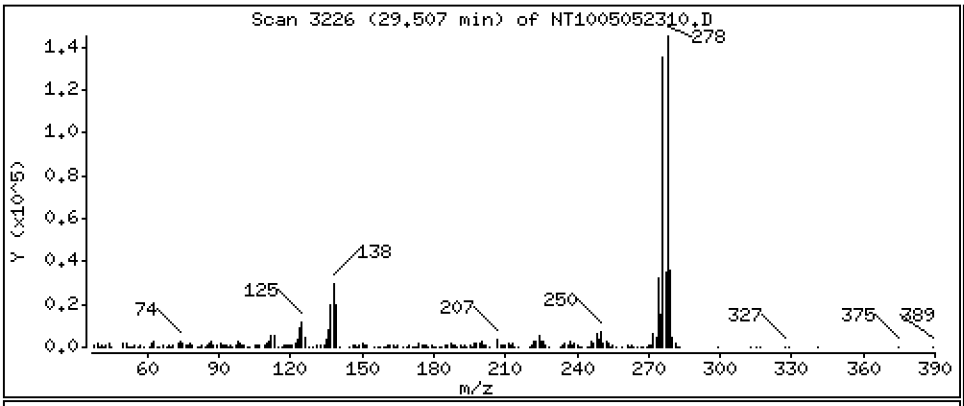
Client ID: Instrument: nt10.i

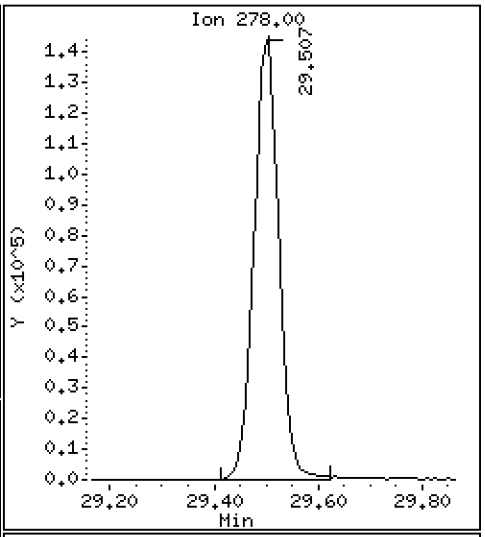
Sample Info: BLD0329-SRM1

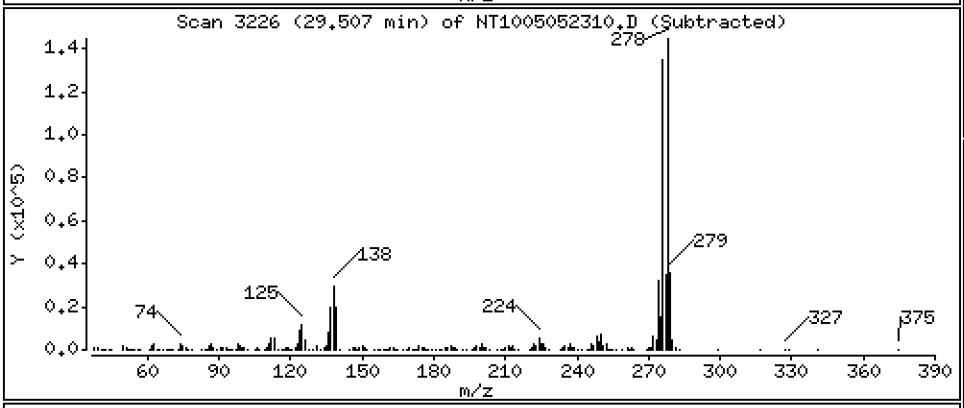
Operator: YZ

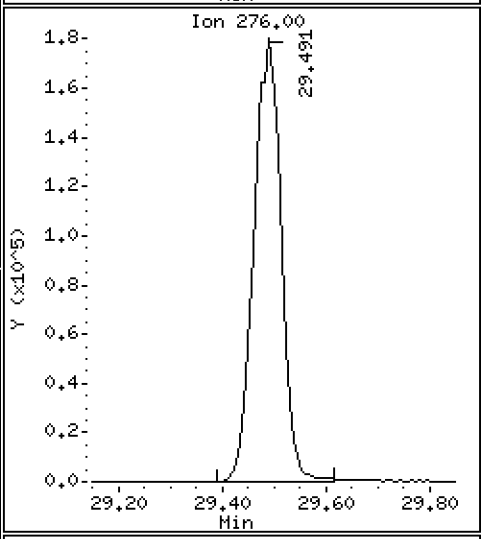
Column phase: ZB-5msi Column diameter: 0.25

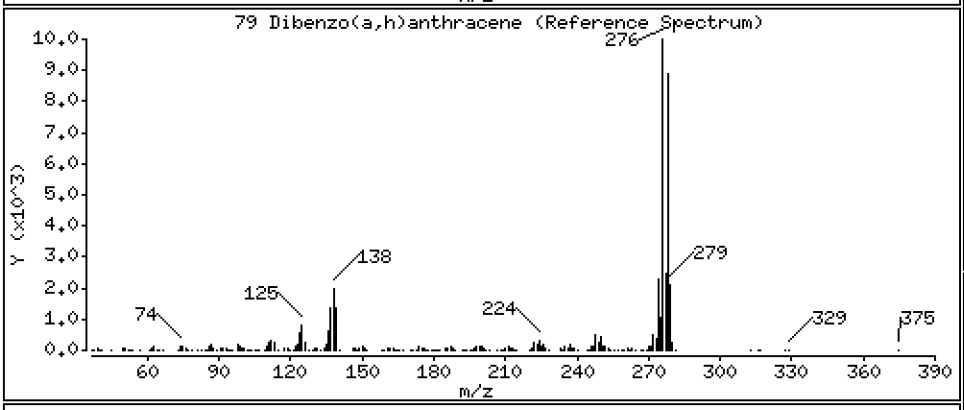
79 Dibenzo(a,h)anthracene Concentration: 3.000 ug/mL

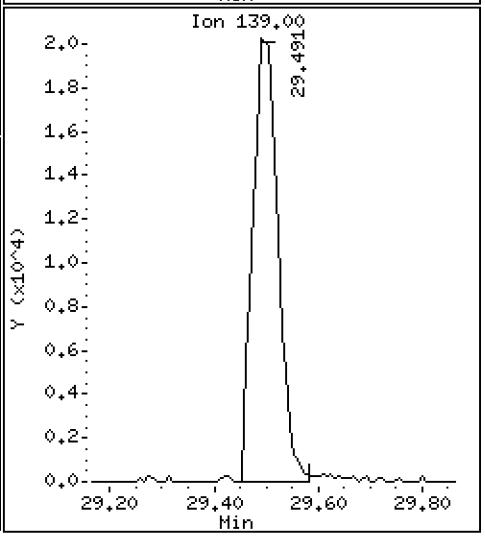


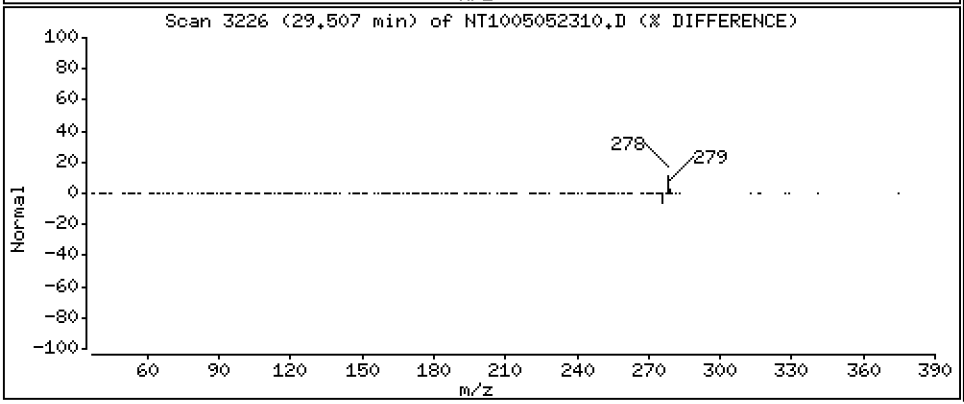












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

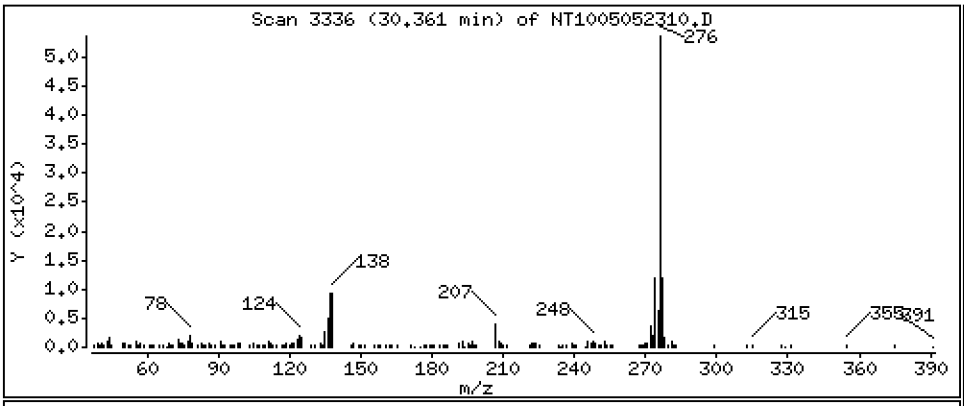
Operator: YZ

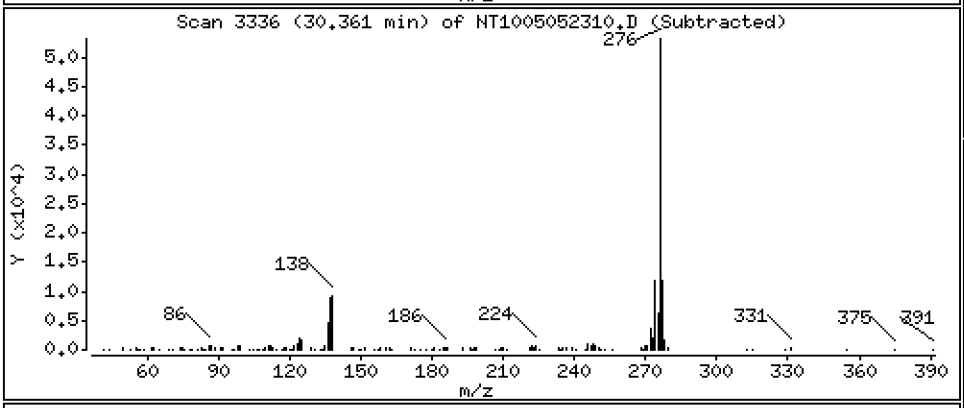
Column phase: ZB-5msi

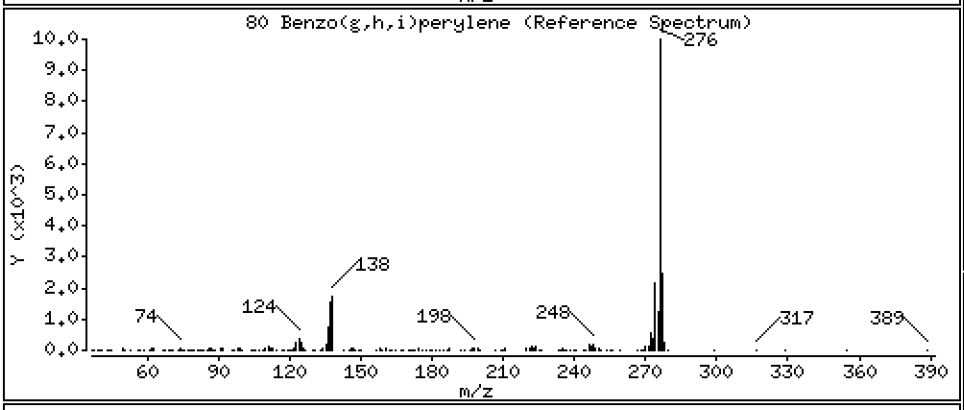
Column diameter: 0.25

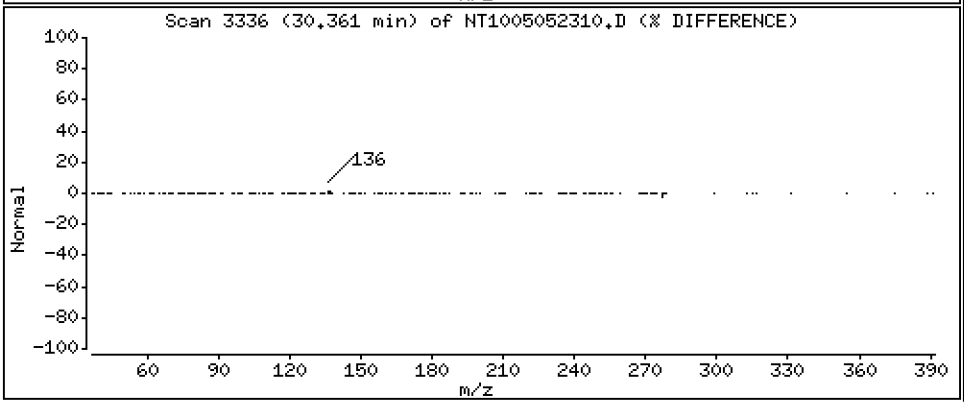
80 Benzo(g,h,i)perylene

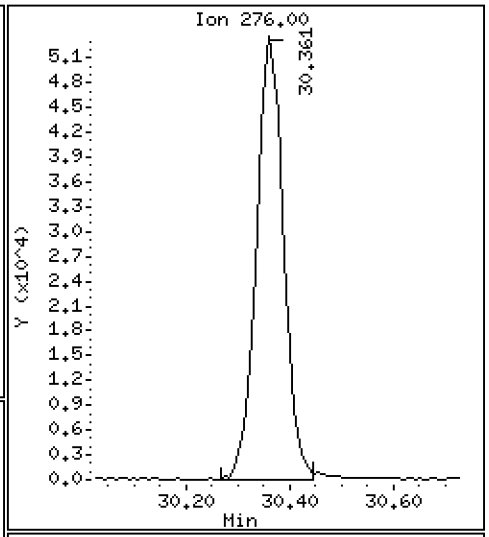
Concentration: 1.264 ug/mL

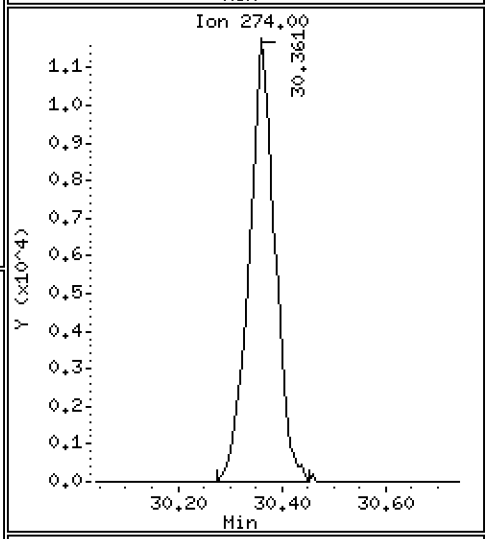


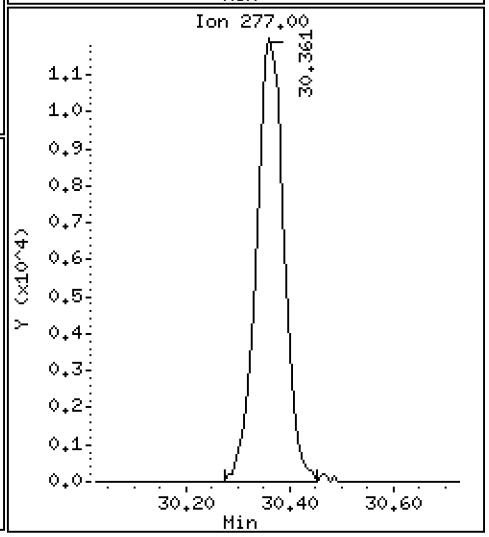












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

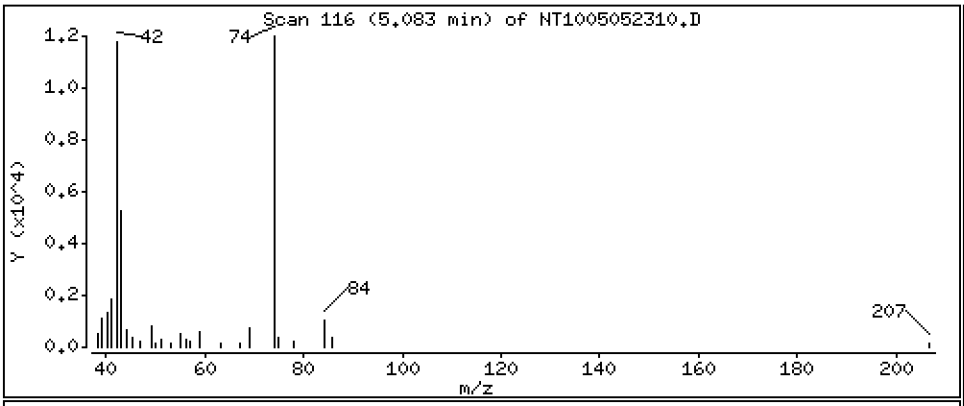
Operator: YZ

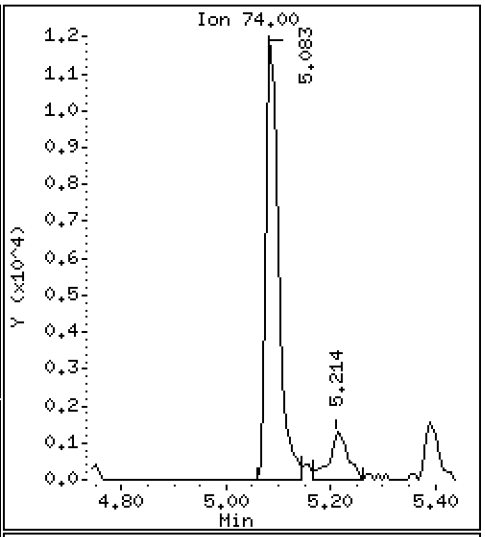
Column phase: ZB-5msi

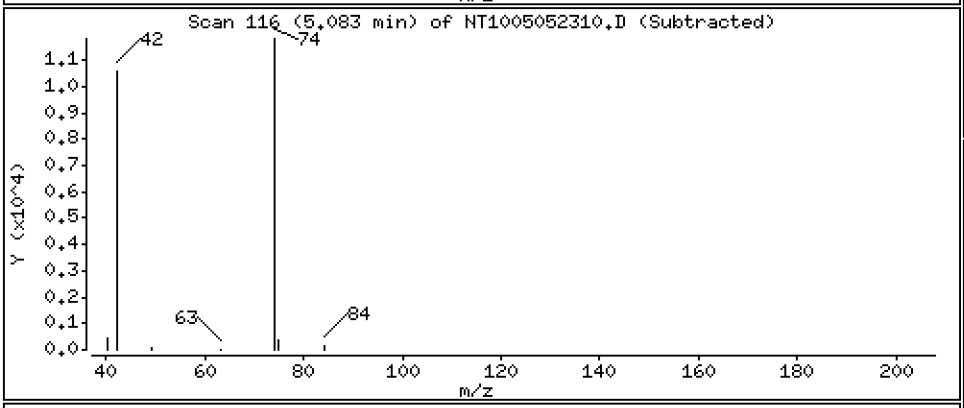
Column diameter: 0.25

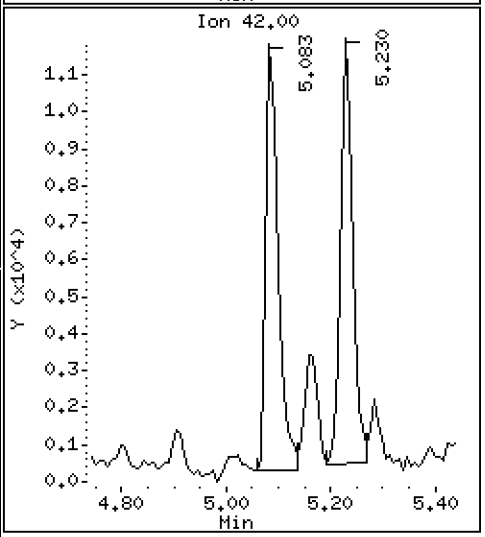
90 N-Nitrosodimethylamine

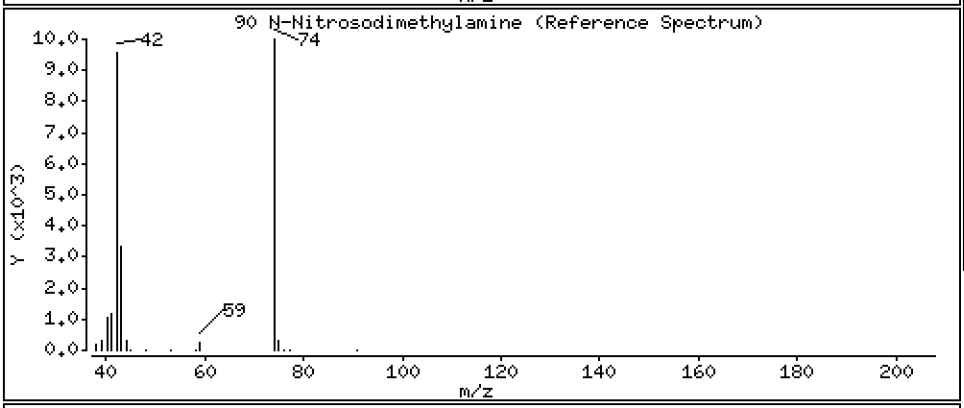
Concentration: 0.6205 ug/mL

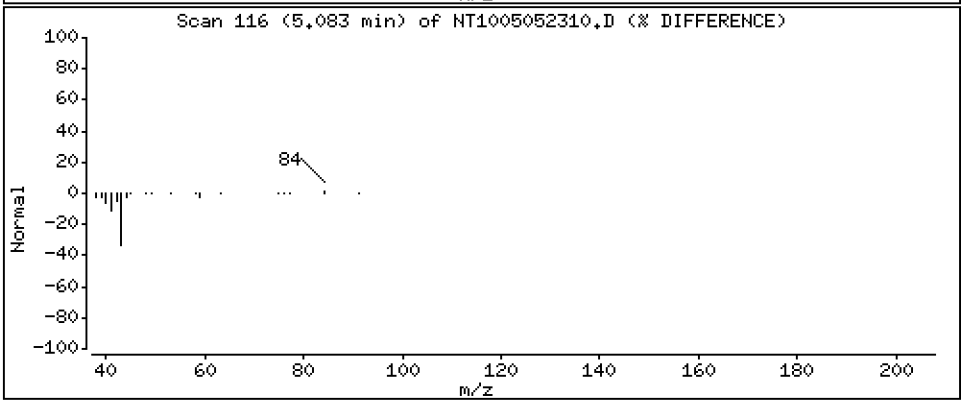












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

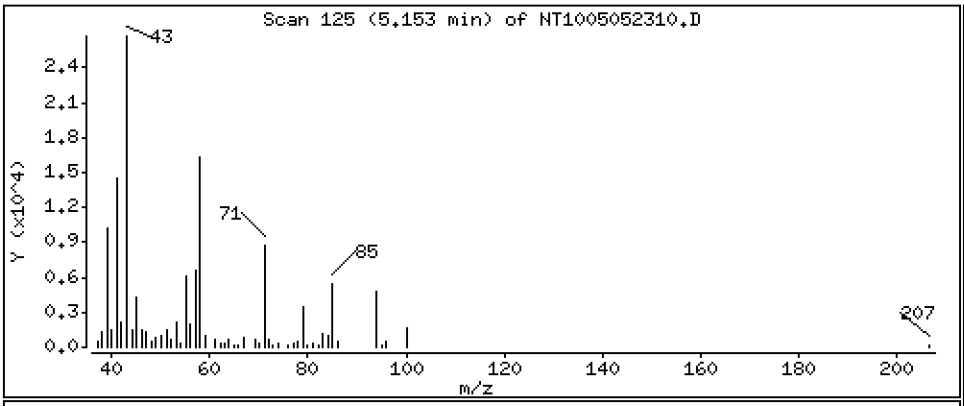
Operator: YZ

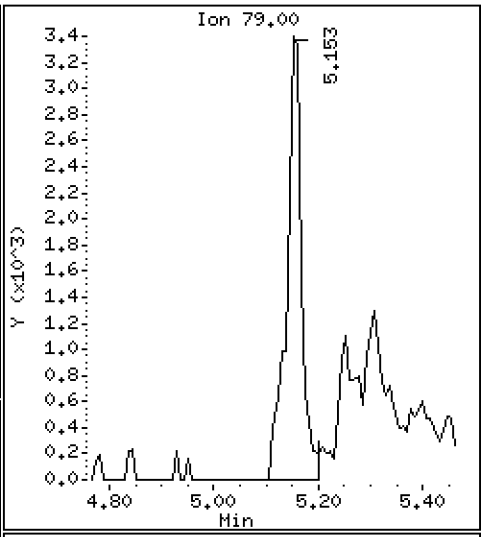
Column phase: ZB-5msi

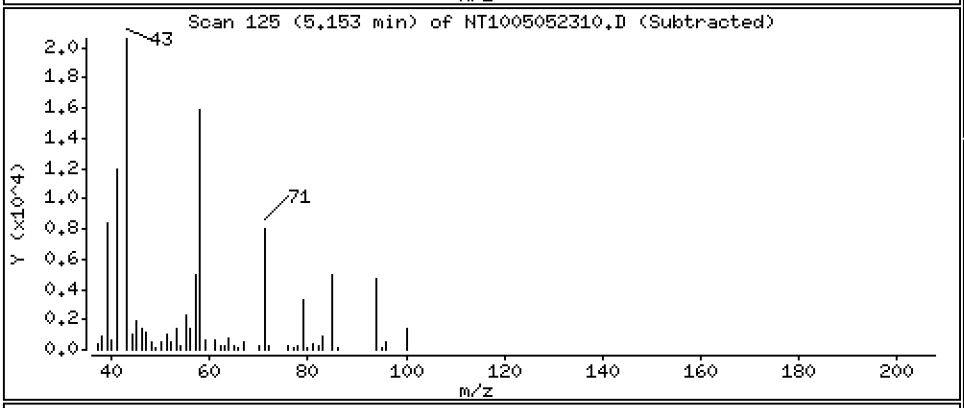
Column diameter: 0.25

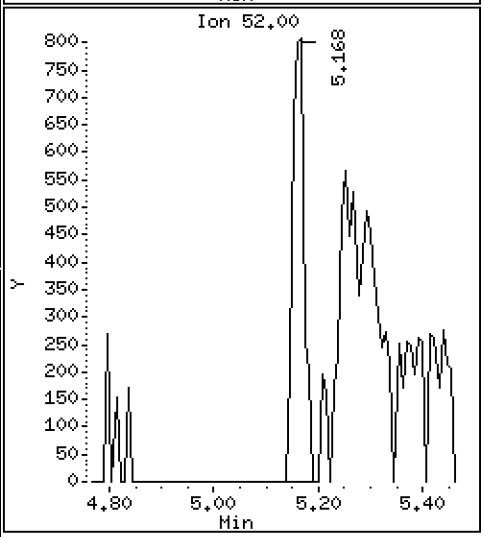
103 Pyridine

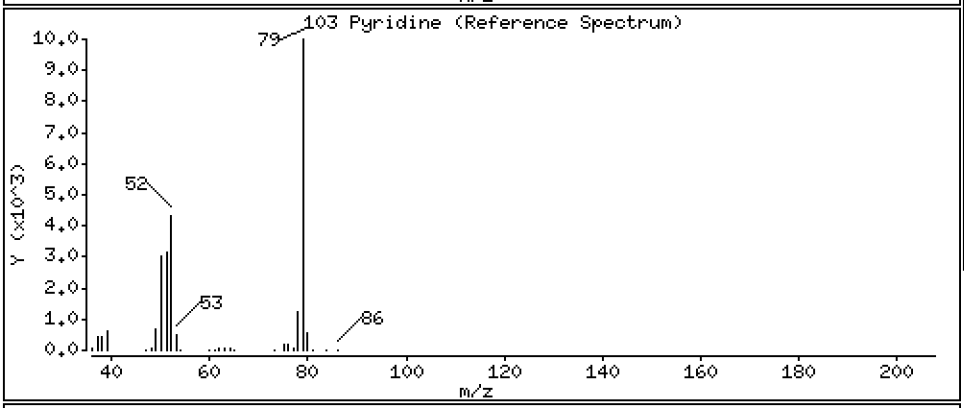
Concentration: 0.1433 ug/mL

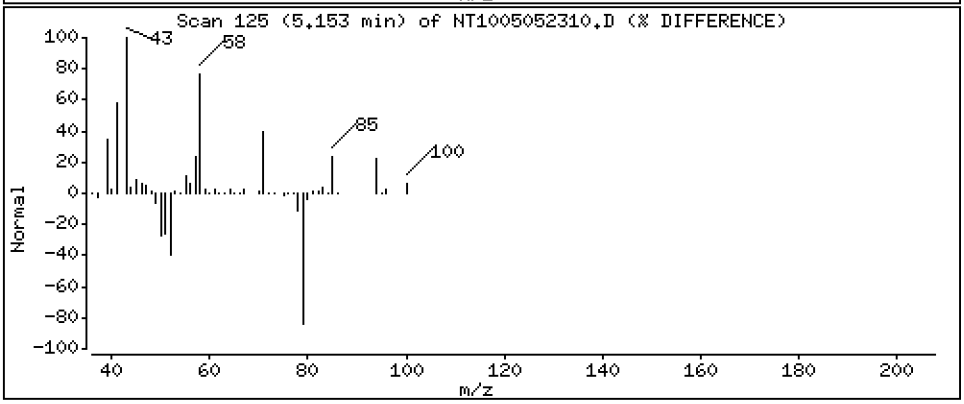












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM1

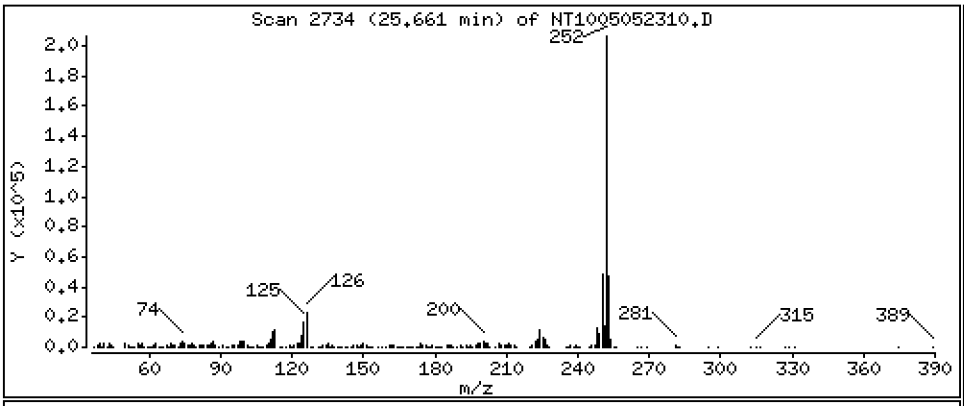
Operator: YZ

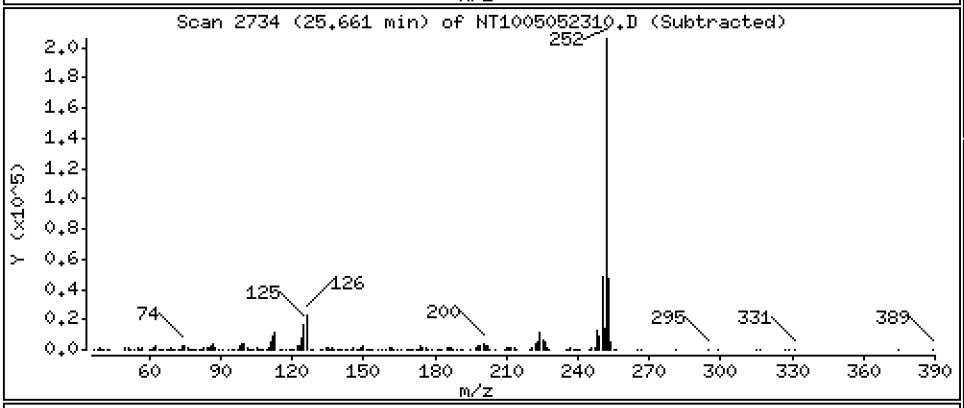
Column phase: ZB-5msi

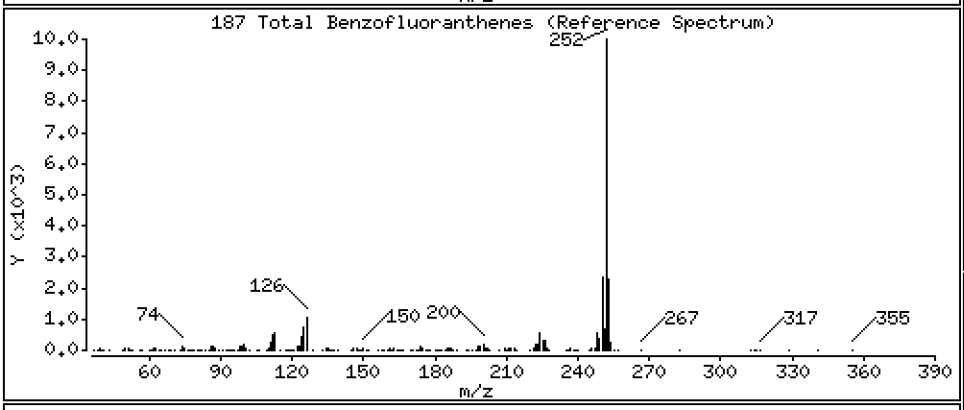
Column diameter: 0.25

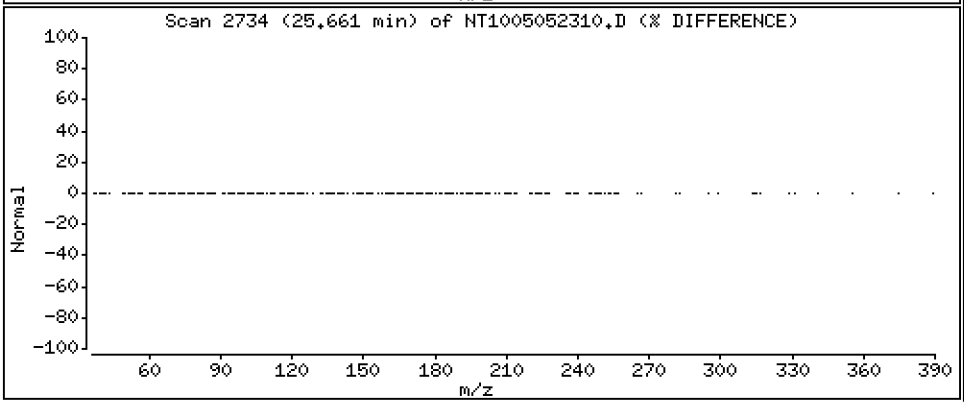
187 Total Benzofluoranthenes

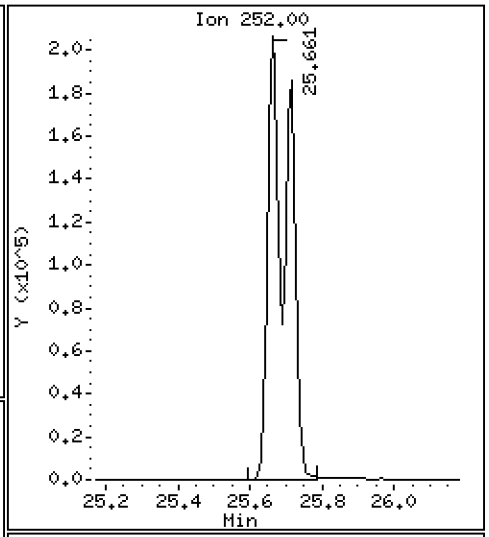
Concentration: 4.346 ug/mL

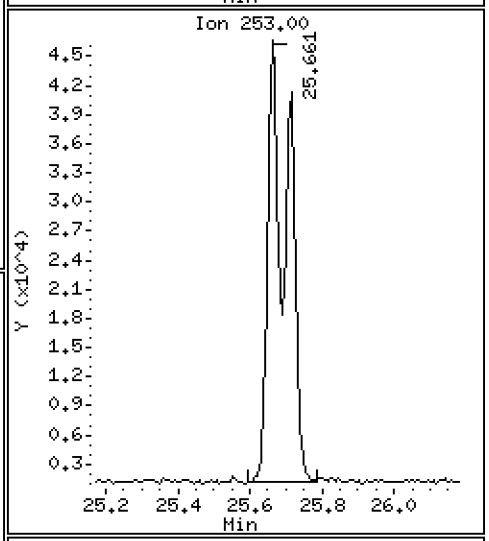


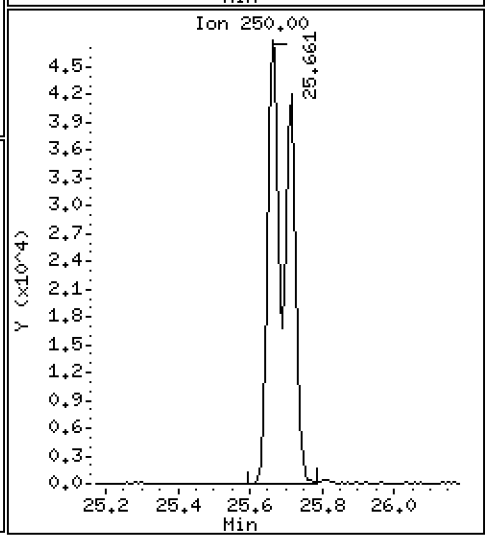












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052310.D
Lab Smp Id: BLD0329-SRM1
Inj Date : 05-MAY-2023 16:36
Operator : YZ Inst ID: nt10.i
Smp Info : BLD0329-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.246	7.253	(1.000)	296424	5.20281	5.203	
$	2 Phenol-d5	99	8.822	8.830	(1.000)	365005	5.31386	5.314	
	3 Phenol	94	8.845	8.853	(1.000)	138259	1.88250	1.882	
$	5 2-Chlorophenol-d4	132	9.123	9.139	(1.000)	391586	5.94870	5.949	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	9.154	9.162	(1.000)	67196	1.03759	1.038	
	7 1,3-Dichlorobenzene	146	9.433	9.440	(1.000)	66447	0.91066	0.9107	
*	8 1,4-Dichlorobenzene-d4	152	9.495	9.502	(1.000)	188282	4.00000		(M)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.867	(1.000)	181760	3.74281	3.743	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	Compound Not Detected.						
	14 2,2'-oxybis(1-Chloropropane)	121	10.054	10.069	(1.000)	42495	2.11438	2.114	
	13 2-Methylphenol	108	9.968	9.976	(1.000)	251866	4.67564	4.676	
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	10.232	10.240	(1.000)	372991	5.76781	5.768	
$	18 Nitrobenzene-d5	82	10.589	10.604	(0.883)	311706	4.34332	4.343	
	19 Nitrobenzene	77	10.628	10.636	(0.886)	165315	2.38352	2.384	
	20 Isophorone	82	11.070	11.078	(0.923)	151452	1.83423	1.834	
	21 2-Nitrophenol	139	11.257	11.266	(0.939)	159485	4.33488	4.335	
	22 2,4-Dimethylphenol	107	11.283	11.300	(0.941)	292790	4.32304	4.323	
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.393	11.486	(0.950)	43514	0.92853	0.9285	
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	335404	6.30388	6.304	
	26 1,2,4-Trichlorobenzene	180	11.898	11.906	(0.992)	91419	1.19963	1.200	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	642213	4.00000		
	28 Naphthalene	128	12.030	12.037	(1.003)	612323	3.41744	3.417	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	72175	1.71738	1.717	
	31 4-Chloro-3-methylphenol	107	13.097	13.105	(1.092)	97737	1.68557	1.686	
	32 2-Methylnaphthalene	142	Compound Not Detected.						
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	73665	1.68375	1.684
	35	2,4,5-Trichlorophenol	196	14.111	14.118	(0.904)	130010	2.72505	2.725
$	36	2-Fluorobiphenyl	172	14.204	14.211	(0.910)	648684	4.19514	4.195
	37	2-Chloronaphthalene	162	14.420	14.436	(0.924)	224359	1.84227	1.842
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	15.094	15.109	(0.967)	572050	4.17728	4.177
	40	Acenaphthylene	152	15.295	15.310	(0.980)	273030	1.43627	1.436
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.612	15.628	(1.000)	357166	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.682	15.689	(1.004)	570404	4.71787	4.718
	45	2,4-Dinitrophenol	184	15.744	15.759	(1.008)	85746	3.59159	3.592
	46	Dibenzofuran	168	16.006	16.014	(1.025)	959736	5.44434	5.444
	47	4-Nitrophenol	109	15.829	15.844	(1.014)	167991	5.89097	5.891
	48	2,4-Dinitrotoluene	165	16.053	16.068	(1.028)	141420	3.19970	3.200
	50	Diethylphthalate	149	16.555	16.571	(1.060)	27784	0.19541	0.1954
	49	Fluorene	166	16.718	16.733	(1.071)	463873	3.18981	3.190
	51	4-Chlorophenyl-phenylether	204	16.702	16.710	(1.070)	151254	2.08872	2.089
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	16.895	16.918	(0.905)	176378	6.61316	6.613
	54	N-Nitrosodiphenylamine	169	16.949	16.964	(0.908)	228722	2.55803	2.558
$	55	2,4,6-Tribromophenol	330	17.257	17.265	(1.105)	122359	6.87906	6.879
	56	4-Bromophenyl-phenylether	248	17.712	17.728	(0.949)	261163	6.18725	6.187
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	18.393	18.401	(0.985)	79097	2.70963	2.710
*	59	Phenanthrene-d10	188	18.664	18.679	(1.000)	676627	4.00000	
	60	Phenanthrene	178	18.710	18.726	(1.002)	845590	4.25909	4.259
	61	Anthracene	178	18.803	18.818	(1.007)	375925	2.04903	2.049
	62	Carbazole	167	19.128	19.136	(1.025)	919321	5.66081	5.661
	63	Di-n-butylphthalate	149	19.894	19.902	(1.066)	361418	1.47825	1.478
	64	Fluoranthene	202	21.078	21.085	(0.890)	493803	2.18094	2.181
	65	Pyrene	202	21.503	21.511	(0.908)	619028	2.73688	2.737
$	66	Terphenyl-d14	244	21.774	21.782	(0.919)	831479	4.64819	4.648
	67	Butylbenzylphthalate	149	22.688	22.695	(0.958)	308236	2.99084	2.991
	68	Benzo(a)anthracene	228	23.656	23.663	(0.999)	1042309	5.19180	5.192
*	69	Chrysene-d12	240	23.687	23.694	(1.000)	507125	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.733	23.741	(1.002)	215750	1.20069	1.201
	72	bis(2-Ethylhexyl)phthalate	149	23.694	23.702	(0.958)	308356	2.28335	2.283
*	134	Di-n-octylphthalate-d4	153	24.724	24.739	(1.000)	937500	4.00000	
	73	Di-n-octylphthalate	149	24.739	24.747	(1.001)	465677	1.88278	1.883
	74	Benzo(b)fluoranthene	252	25.661	25.676	(0.968)	464594	2.43408	2.434
	75	Benzo(k)fluoranthene	252	25.715	25.730	(0.970)	366472	1.93487	1.935
	76	Benzo(a)pyrene	252	26.396	26.404	(0.995)	685028	4.28781	4.288
*	77	Perylene-d12	264	26.520	26.528	(1.000)	464638	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.491	29.498	(1.112)	654430	3.40980	3.410
	79	Dibenzo(a,h)anthracene	278	29.506	29.514	(1.113)	482152	2.99963	3.000
	80	Benzo(g,h,i)perylene	276	30.361	30.376	(1.145)	193290	1.26351	1.264
	90	N-Nitrosodimethylamine	74	5.083	5.090	(1.000)	19095	0.62049	0.6205
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	5.152	5.114	(1.000)	6955	0.14332	0.1433
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.661	25.676	(0.968)	798412	4.34560	4.346

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052310.D
Lab Smp Id: BLD0329-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: YZ
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	188282	4.91
27 Naphthalene-d8	621628	310814	1243256	642213	3.31
42 Acenaphthene-d10	353112	176556	706224	357166	1.15
59 Phenanthrene-d10	694933	347467	1389866	676627	-2.63
69 Chrysene-d12	553967	276984	1107934	507125	-8.46
134 Di-n-octylphthala	895601	447801	1791202	937500	4.68
77 Perylene-d12	482573	241287	965146	464638	-3.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	-0.08
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.61	-0.10
59 Phenanthrene-d10	18.68	18.18	19.18	18.66	-0.08
69 Chrysene-d12	23.69	23.19	24.19	23.69	-0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.72	-0.06
77 Perylene-d12	26.53	26.03	27.03	26.52	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005052310.D

Lab ID: BLD0329-SRM1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 16:36

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.060	-0.0596	2,2'-oxybis(1-Chloropropane)
0.886	1.000	-0.1137	4-Methylphenol
0.923	0.886	0.0368	Nitrobenzene
0.939	0.923	0.0155	Isophorone
0.976	0.959	0.0176	Bis(2-Chloroethoxy)methane
0.992	0.976	0.0159	2,4-Dichlorophenol
1.003	0.992	0.0110	1,2,4-Trichlorobenzene
0.950	1.000	-0.0499	Naphthalene-d8
1.033	0.957	0.0755	Benzoic acid
1.092	1.014	0.0787	4-Chloroaniline
0.899	1.120	-0.2205	2-Methylnaphthalene
0.904	0.890	0.0143	Hexachlorocyclopentadiene
0.924	0.899	0.0247	2,4,6-Trichlorophenol
0.980	0.924	0.0560	2-Chloronaphthalene
0.967	0.940	0.0267	2-Nitroaniline
1.004	0.967	0.0376	Dimethylphthalate
1.008	1.000	0.0084	Acenaphthene-d10
1.025	1.004	0.0213	Acenaphthene
1.014	0.995	0.0193	3-Nitroaniline
1.028	1.008	0.0198	2,4-Dinitrophenol
1.071	1.025	0.0461	Dibenzofuran
1.070	1.014	0.0560	4-Nitrophenol
1.060	1.028	0.0322	2,4-Dinitrotoluene
0.905	1.069	-0.1640	4-Chlorophenyl-phenylether
0.908	1.060	-0.1522	Diethylphthalate
0.949	1.077	-0.1276	4-Nitroaniline
0.985	0.908	0.0773	N-Nitrosodiphenylamine
1.002	0.949	0.0534	4-Bromophenyl-phenylether
1.007	0.966	0.0410	Hexachlorobenzene
1.025	0.985	0.0398	Pentachlorophenol
1.066	1.000	0.0659	Phenanthrene-d10
0.890	1.002	-0.1126	Phenanthrene
0.908	1.007	-0.0996	Anthracene
0.958	1.024	-0.0666	Carbazole
0.999	1.065	-0.0667	Di-n-butylphthalate
1.002	0.908	0.0941	Pyrene
0.968	1.000	-0.0324	Chrysene-d12
0.970	0.996	-0.0268	3,3'-Dichlorobenzidine
0.995	1.002	-0.0066	Chrysene
1.112	0.958	0.1539	bis(2-Ethylhexyl)phthalate
1.113	1.000	0.1123	Di-n-octylphthalate
1.145	0.968	0.1769	Benzo(b)fluoranthene

1.000	0.970	0.0301	Benzo(k)fluoranthene
1.000	1.112	-0.1120	Indeno(1,2,3-cd)pyrene
0.968	1.000	-0.0324	N-Nitrosodimethylamine
1.000	0.899	0.1007	Benzidine
1.000	1.139	-0.1386	1-methylnaphthalene
1.000	1.090	-0.0904	Azobenzene (1,2-DP-Hydrazine)
1.000	1.046	-0.0460	2,3,4,6-Tetrachlorophenol
1.000	0.968	0.0321	Total Benzofluoranthenes
0.883	1.000	-0.1169	1,2-Dichlorobenzene-d4
0.910	0.884	0.0260	Nitrobenzene-d5
1.105	0.909	0.1960	2-Fluorobiphenyl
0.919	1.105	-0.1855	2,4,6-Tribromophenol
0.000	0.919	-0.9193	Terphenyl-d14

RRT check based on Ccal File: NT1005052303.D

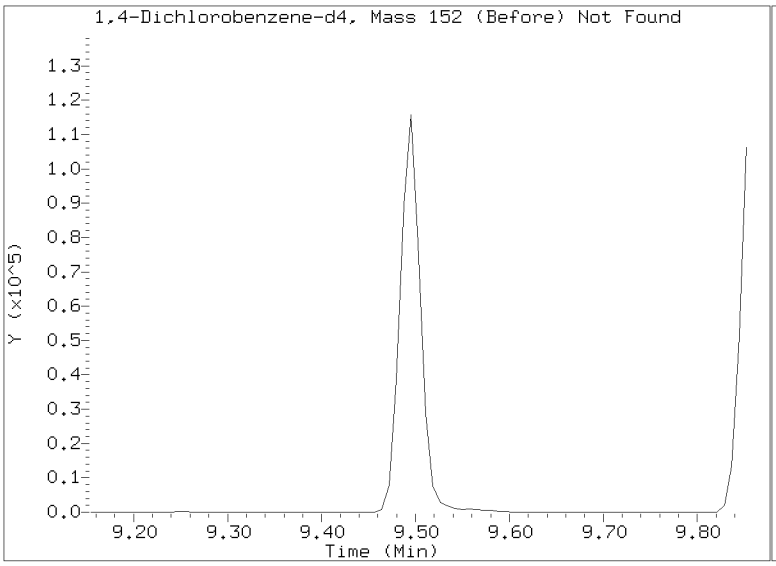
On Column LOD for nt10.i, 20230505.b\ABN.m, PSDDA.sub = 0.1000

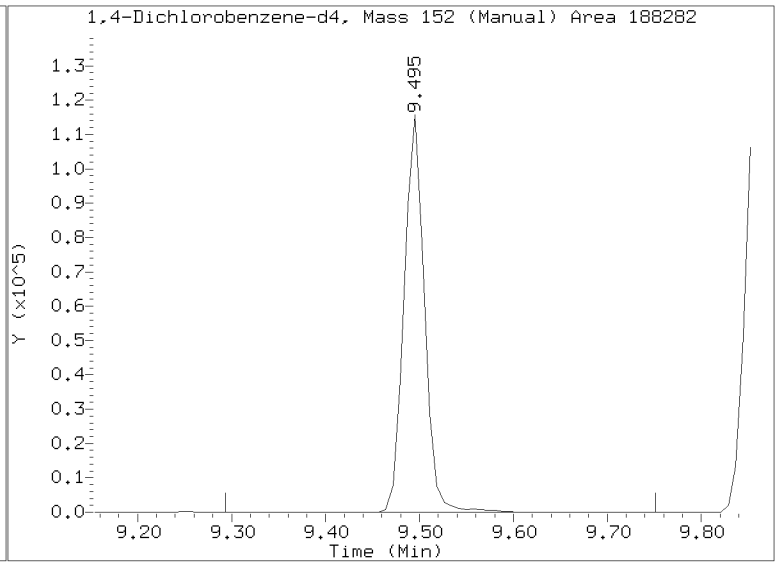
Exception: Phenol 0.5000
Exception: 2-Fluorophenol (Surr) 0.0000
Exception: Phenol-d5 (Surr) 0.0000
Exception: 2-Chlorophenol-d4 (Surr) 0.0000
Exception: 1,2-Dichlorobenzene-d4 (Surr) 0.0000
Exception: Nitrobenzene-d5 (Surr) 0.0000
Exception: 2-Fluorobiphenyl (Surr) 0.0000
Exception: 2,4,6-Tribromophenol (Surr) 0.0000
Exception: Terphenyl-d14 (Surr) 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052310.D
Injection Date: 05-MAY-2023 16:36
Lab ID:BLD0329-SRM1 Client ID:
Report Date: 05/08/2023 10:15





APPROVED

By Deenay Dunmore at 10:38 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

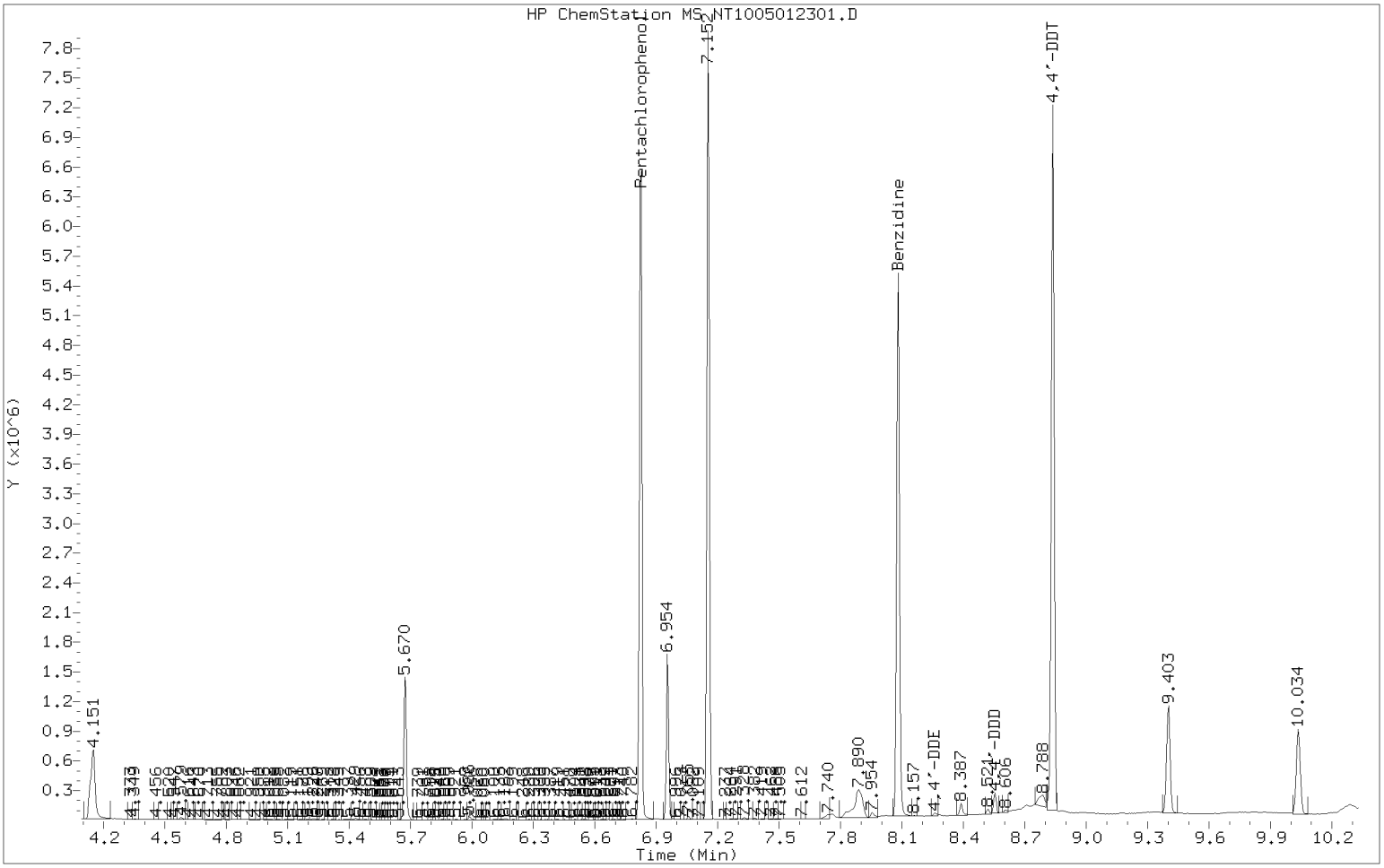
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT1005012301.D	Injection Date:	05/01/23
Instrument ID:	NT10	Injection Time:	14:35
Sequence:	SLE0036	Lab Sample ID:	SLE0036-TUN1

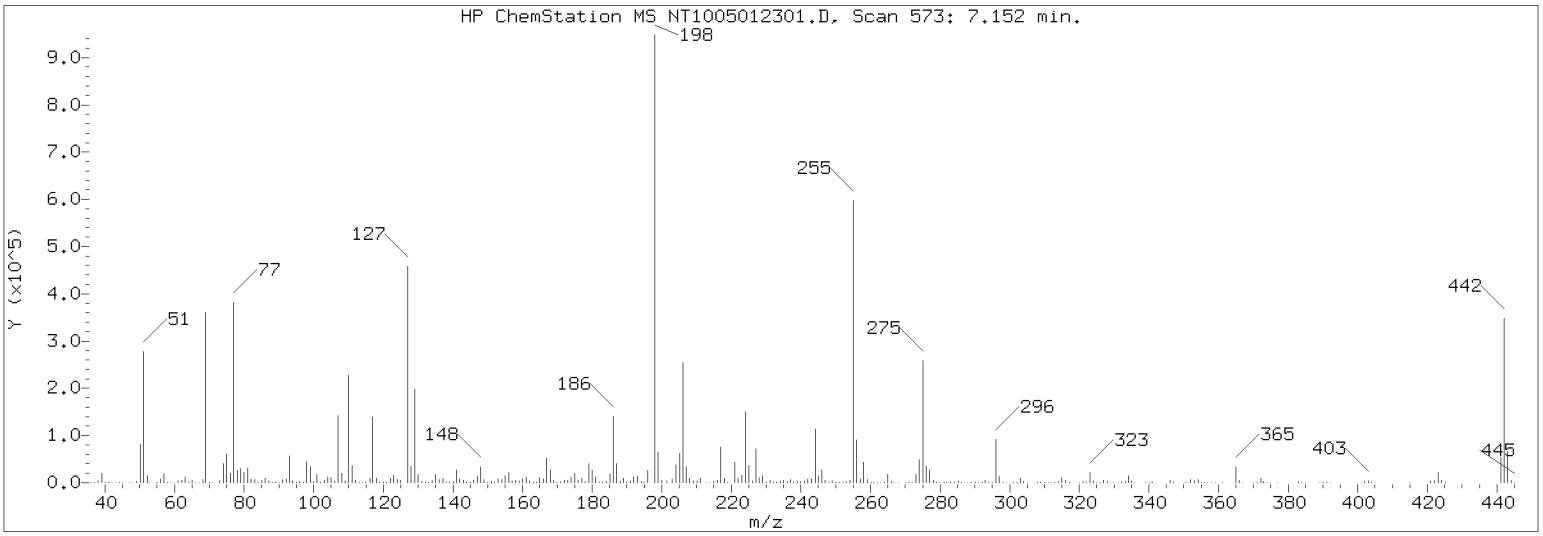
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.96	PASS
69	Less than 100% of 198	36.9	PASS
70	Less than 2% of 69	0.547	PASS
197	Less than 2% of 198	0.109	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.93	PASS
365	1 - 100% of 198	4.09	PASS
441	Less than 150% of 443	80.2	PASS
442	1 - 200% of 198	47.5	PASS
443	15 - 24% of 442	18.5	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLE0036-TUN1	NT1005012301.D	05/01/2023	14:35
Cal Standard	SLE0036-CAL7	NT1005012302.D	05/01/2023	14:52
Cal Standard	SLE0036-CAL6	NT1005012303.D	05/01/2023	15:31
Cal Standard	SLE0036-CAL5	NT1005012304.D	05/01/2023	16:10
Cal Standard	SLE0036-CAL4	NT1005012305.D	05/01/2023	16:49
Cal Standard	SLE0036-CAL3	NT1005012306.D	05/01/2023	17:28
Cal Standard	SLE0036-CAL2	NT1005012307.D	05/01/2023	18:07
Cal Standard	SLE0036-CAL1	NT1005012308.D	05/01/2023	18:46
Secondary Cal Check	SLE0036-SCV1	NT1005012311.D	05/01/2023	20:43
Initial Cal Blank	SLE0036-ICB1	NT1005012312.D	05/01/2023	21:22

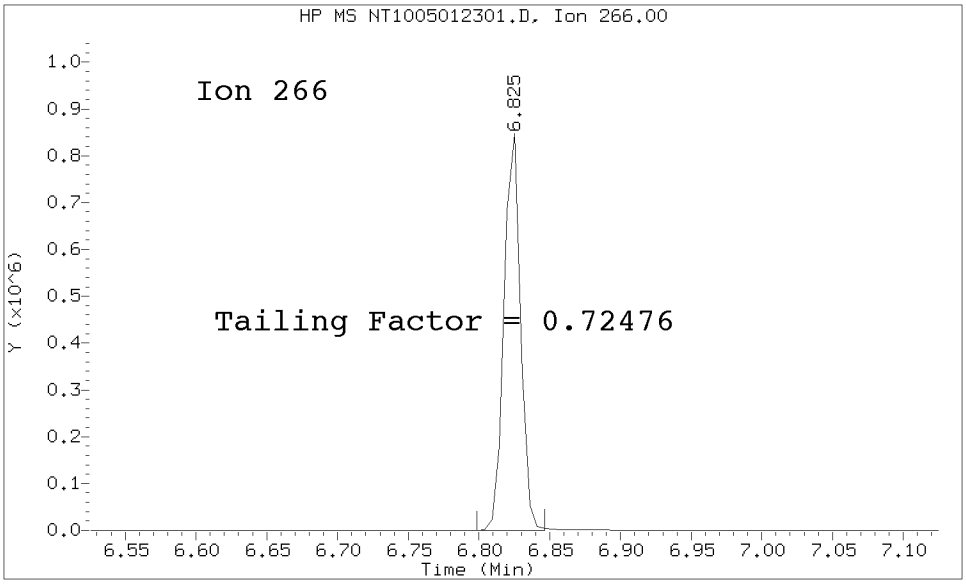
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SLE0036-TUN1 SLE0036-TUN1
Report Date: 05/10/2023 09:43



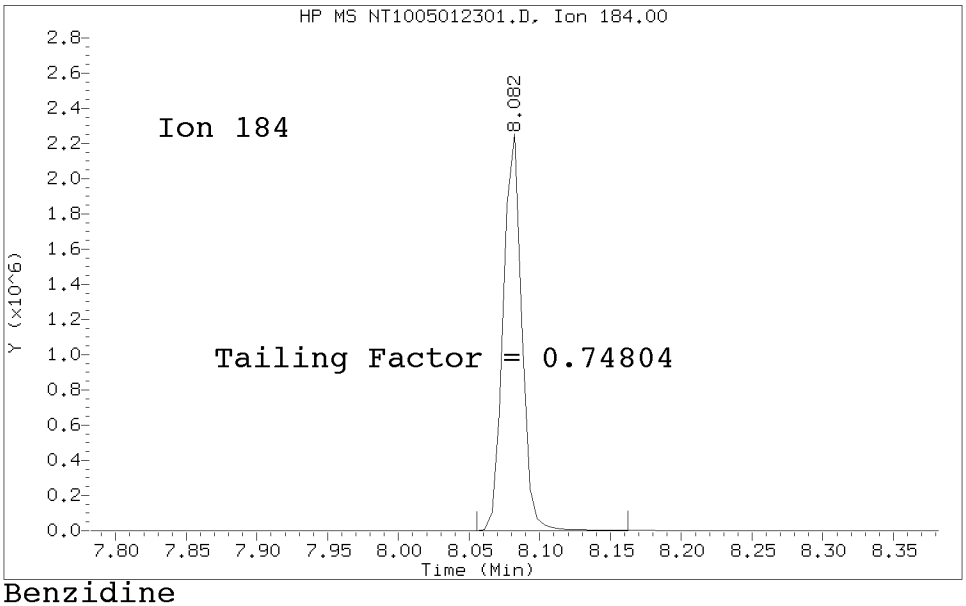


Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 05/10/2023 09:43



Pentachlorophenol
==========
 Exp. RT = 6.825
Found RT = 6.825

Tail Factor = 0.725 Maximum Allowed = 2.0



Benzidine
=========
 Exp. RT = 8.082
Found RT = 8.082

Tail Factor = 0.748 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7247596	2.000	PASS
Benzidine	0.7480403	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1164719			N/A
4,4-DDE	2926	0.3	20.0	PASS
4,4-DDD	33911	2.8	20.0	PASS
4,4-DDD + DDE	36837	3.1	20.0	PASS

Tuning Sample, nt10.i/20230501.b/NT1005012301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.72 (1.96)
69	Mass 69 relative abundance	36.88
70	Less than 2.00% of mass 69	0.20 (0.55)
197	Less than 2.00% of mass 198	0.11
199	5.00 - 9.00% of mass 198	6.93
365	1.00 - 100.00% of mass 198	4.09
441	Less than 150.00% of mass 443	7.03 (80.18)
442	Less than 200.00% of mass 198	47.49
443	15.00 - 24.00% of mass 442	8.77 (18.47)

Data File: NT1005012301.D
Spectrum: Avg. Scans 572-574 (7.15), Background Scan 568
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	266	125.00	4346	212.00	234	301.00	794
37.00	1062	127.00	328512	213.00	499	302.00	1186
38.00	3056	128.00	24936	214.00	141	303.00	6845
39.00	14282	129.00	141504	215.00	2444	304.00	2076
40.00	661	130.00	12474	216.00	4556	305.00	403
41.00	397	131.00	2350	217.00	56176	308.00	947
42.00	221	132.00	1148	218.00	7190	309.00	634
43.00	80	133.00	478	219.00	698	310.00	860
44.00	92	134.00	4546	221.00	32104	311.00	269
45.00	530	135.00	11767	222.00	7235	312.00	310
47.00	208	136.00	4896	223.00	12138	313.00	707
48.00	116	137.00	6769	224.00	109928	314.00	2821
49.00	1662	138.00	1154	225.00	27736	315.00	8040
50.00	56312	139.00	780	226.00	3167	316.00	3993
51.00	192128	140.00	1727	227.00	54120	317.00	727
52.00	10009	141.00	19408	228.00	7820	319.00	76
53.00	358	142.00	5867	229.00	10633	320.00	151
55.00	1147	143.00	4287	230.00	1375	321.00	1907
56.00	6312	144.00	1130	231.00	3934	322.00	960
57.00	13026	145.00	910	232.00	656	323.00	17032
58.00	607	146.00	3437	233.00	991	324.00	3069
59.00	29	147.00	9663	234.00	3296	325.00	361
60.00	264	148.00	25112	235.00	3662	326.00	468
61.00	2852	149.00	5052	236.00	2488	327.00	4017
62.00	3614	150.00	1356	237.00	4890	328.00	1906
63.00	9148	151.00	2266	238.00	672	329.00	512
64.00	1235	152.00	1579	239.00	2237	330.00	120
65.00	4193	153.00	5832	240.00	1719	331.00	144
66.00	314	154.00	4463	241.00	2944	332.00	1493
67.00	446	155.00	10445	242.00	6490	333.00	1743
68.00	4951	156.00	15957	243.00	6227	334.00	11676
69.00	253056	157.00	2760	244.00	84584	335.00	2870
70.00	1385	158.00	3689	245.00	11413	336.00	350
71.00	272	159.00	2681	246.00	20384	339.00	198
73.00	2332	160.00	5980	247.00	4089	340.00	264
74.00	27976	161.00	9017	248.00	961	341.00	2132
75.00	42480	162.00	2681	249.00	2961	342.00	576
76.00	14168	163.00	992	250.00	651	346.00	4092
77.00	268224	164.00	986	251.00	842	347.00	762
78.00	18296	165.00	7696	252.00	860	350.00	110
79.00	21328	166.00	5725	253.00	2012	351.00	381
80.00	15604	167.00	38888	254.00	2343	352.00	5467
81.00	22424	168.00	19968	255.00	444992	353.00	3275
82.00	5265	169.00	3411	256.00	66248	354.00	5320
83.00	4677	170.00	1231	257.00	5829	355.00	1023
84.00	283	171.00	1591	258.00	33176	356.00	112
85.00	3741	172.00	3396	259.00	5397	357.00	124
86.00	6850	173.00	4390	260.00	852	358.00	174
87.00	2927	174.00	8520	261.00	736	359.00	318

88.00	1120	175.00	14893	262.00	111	361.00	131
89.00	591	176.00	3790	263.00	324	365.00	28088
90.00	101	177.00	7147	264.00	910	366.00	3777
91.00	5081	178.00	2450	265.00	12966	367.00	231
92.00	6151	179.00	29704	266.00	1919	370.00	495
93.00	40032	180.00	19936	267.00	184	371.00	1202
94.00	2667	181.00	8798	268.00	259	372.00	8009
95.00	587	182.00	1417	269.00	62	373.00	2002
96.00	1638	183.00	747	270.00	543	374.00	191
97.00	812	184.00	2226	271.00	976	375.00	50
98.00	31360	185.00	13981	272.00	1325	377.00	228
99.00	23592	186.00	102448	273.00	13189	383.00	2046
100.00	1856	187.00	29664	274.00	36512	384.00	449
101.00	12405	188.00	3546	275.00	194176	385.00	208
102.00	722	189.00	7144	276.00	25528	389.00	145
103.00	4260	190.00	1294	277.00	20736	390.00	1030
104.00	8414	191.00	3257	278.00	3713	391.00	705
105.00	7720	192.00	9275	279.00	791	392.00	459
106.00	2783	193.00	10621	280.00	54	395.00	59
107.00	100768	194.00	2025	281.00	351	401.00	403
108.00	14716	195.00	942	282.00	427	402.00	2822
109.00	3117	196.00	18840	283.00	2267	403.00	4000
110.00	161152	197.00	746	284.00	1368	404.00	1422
111.00	26016	198.00	686208	285.00	3442	405.00	290
112.00	3385	199.00	47528	286.00	615	410.00	95
113.00	1238	200.00	3588	288.00	189	415.00	166
114.00	319	201.00	2743	289.00	808	421.00	2808
115.00	590	202.00	87	290.00	702	422.00	2710
116.00	6423	203.00	5944	291.00	490	423.00	19704
117.00	102240	204.00	28184	292.00	872	424.00	5181
118.00	7245	205.00	46720	293.00	4158	425.00	574
119.00	721	206.00	185280	294.00	948	441.00	48248
120.00	1273	207.00	24280	295.00	1174	442.00	325888
121.00	749	208.00	7426	296.00	70416	443.00	60176
122.00	7214	209.00	2446	297.00	10070	444.00	5503
123.00	11141	210.00	3305	298.00	690	445.00	283
124.00	5150	211.00	7375	299.00	220		

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00012	Instrument:	NT10
Calibration Date:	05/01/2023	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Phenol	0.2	1.547094	0.5	1.528268	1	1.519751	2.5	1.602447	5	1.516027	10	1.664247
4-Methylphenol	0.2	1.345877	0.5	1.339206	1	1.321288	2.5	1.334716	5	1.370865	10	1.500221
Naphthalene	0.2	1.126899	0.5	1.114846	1	1.12188	2.5	1.100766	5	1.086554	10	1.146772
2-Methylnaphthalene	0.2	0.7901244	0.5	0.8178504	1	0.8059335	2.5	0.8329977	5	0.8235221	10	0.8842694
Acenaphthylene	0.2	2.003478	0.5	2.075177	1	2.130366	2.5	2.146579	5	2.148072	10	2.200974
Dimethylphthalate	0.2	1.4657	0.5	1.507829	1	1.550122	2.5	1.56811	5	1.546397	10	1.577984
Acenaphthene	0.2	1.312512	0.5	1.332188	1	1.331606	2.5	1.336976	5	1.326357	10	1.416622
Dibenzofuran	0.2	1.878983	0.5	1.898041	1	1.936982	2.5	1.988525	5	1.955901	10	2.078731
Fluorene	0.2	1.582855	0.5	1.570823	1	1.587982	2.5	1.601448	5	1.577989	10	1.715299
Phenanthrene	0.2	1.146422	0.5	1.159063	1	1.1541	2.5	1.134422	5	1.152278	10	1.209318
Anthracene	0.2	0.9518442	0.5	1.022185	1	1.076687	2.5	1.06681	5	1.101906	10	1.162071
Fluoranthene	0.2	1.517243	0.5	1.643619	1	1.732676	2.5	1.851994	5	1.919407	10	2.019294
Pyrene	0.2	1.611054	0.5	1.676692	1	1.749301	2.5	1.819916	5	1.910241	10	1.941112
Butylbenzylphthalate	0.2	0.472826	0.5	0.5537201	1	0.6539222	2.5	0.7186249	5	0.7802569	10	0.7834815
Benzo(a)anthracene	0.2	1.576556	0.5	1.559321	1	1.590166	2.5	1.584733	5	1.639268	10	1.613805
Chrysene	0.2	1.462656	0.5	1.511488	1	1.419221	2.5	1.415664	5	1.400992	10	1.395876
bis(2-Ethylhexyl)phthalate	0.2	0.465481	0.5	0.5394841	1	0.5599879	2.5	0.6141902	5	0.6131489	10	0.6221964
Benzofluoranthenes, Total	0.4	1.432935	1	1.467918	2	1.489456	5	1.513955	10	1.603419	20	1.690576
Benzo(a)pyrene	0.2	1.221783	0.5	1.242188	1	1.300165	2.5	1.320769	5	1.404594	10	1.486746
Indeno(1,2,3-cd)pyrene	0.2	1.477836	0.5	1.529285	1	1.547037	2.5	1.589557	5	1.671528	10	1.774254
Dibenzo(a,h)anthracene	0.2	1.316554	0.5	1.241728	1	1.291081	2.5	1.305854	5	1.367893	10	1.466245
Benzo(g,h,i)perylene	0.2	1.26937	0.5	1.240263	1	1.256333	2.5	1.282195	5	1.32631	10	1.387085
2-Fluorophenol	0.3	1.136502	0.75	1.155255	1.5	1.181374	3.75	1.246066	7.5	1.18572	15	1.334456
Phenol-d5	0.3	1.313492	0.75	1.351005	1.5	1.396873	3.75	1.498547	7.5	1.446759	15	1.65114
2-Chlorophenol-d4	0.3	1.320689	0.75	1.304206	1.5	1.324404	3.75	1.424078	7.5	1.371222	15	1.576277
1,2-Dichlorobenzene-d4	0.2	1.027421	0.5	1.013227	1	0.9856567	2.5	1.032125	5	0.9831923	10	1.114945
Nitrobenzene-d5	0.2	0.4068197	0.5	0.436938	1	0.4688056	2.5	0.4610907	5	0.4514809	10	0.4633944
2-Fluorobiphenyl	0.2	1.746622	0.5	1.695719	1	1.716504	2.5	1.695605	5	1.685897	10	1.780391

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00012	Instrument:	NT10
Calibration Date:	05/01/2023	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
2,4,6-Tribromophenol	0.3	0.1231058	0.75	0.1437945	1.5	0.1590036	3.75	0.1776325	7.5	0.1917047	15	0.2156715
p-Terphenyl-d14	0.2	1.319668	0.5	1.369692	1	1.398674	2.5	1.418219	5	1.481152	10	1.481681

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00012	Instrument:	NT10
Calibration Date:	05/01/2023	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.544332										
4-Methylphenol	20	1.404755										
Naphthalene	20	1.114214										
2-Methylnaphthalene	20	0.8860766										
Acenaphthylene	20	2.197999										
Dimethylphthalate	20	1.519507										
Acenaphthene	20	1.421913										
Dibenzofuran	20	2.082414										
Fluorene	20	1.764046										
Phenanthrene	20	1.260229										
Anthracene	20	1.210607										
Fluoranthene	20	1.816985										
Pyrene	20	1.779819										
Butylbenzylphthalate	20	0.7073368										
Benzo(a)anthracene	20	1.520797										
Chrysene	20	1.315253										
bis(2-Ethylhexyl)phthalate	20	0.6188747										
Benzofluoranthenes, Total	40	1.873597										
Benzo(a)pyrene	20	1.651313										
Indeno(1,2,3-cd)pyrene	20	1.976351										
Dibenzo(a,h)anthracene	20	1.696989										
Benzo(g,h,i)perylene	20	1.457201										
2-Fluorophenol	30	1.233384										
Phenol-d5	30	1.557175										
2-Chlorophenol-d4	30	1.468477										
1,2-Dichlorobenzene-d4	20	1.065312										
Nitrobenzene-d5	20	0.4404493										
2-Fluorobiphenyl	20	1.801284										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00012	Instrument:	NT10
Calibration Date:	05/01/2023	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4,6-Tribromophenol	30	0.2396319										
p-Terphenyl-d14	20	1.407584										

INITIAL CALIBRATION DATA

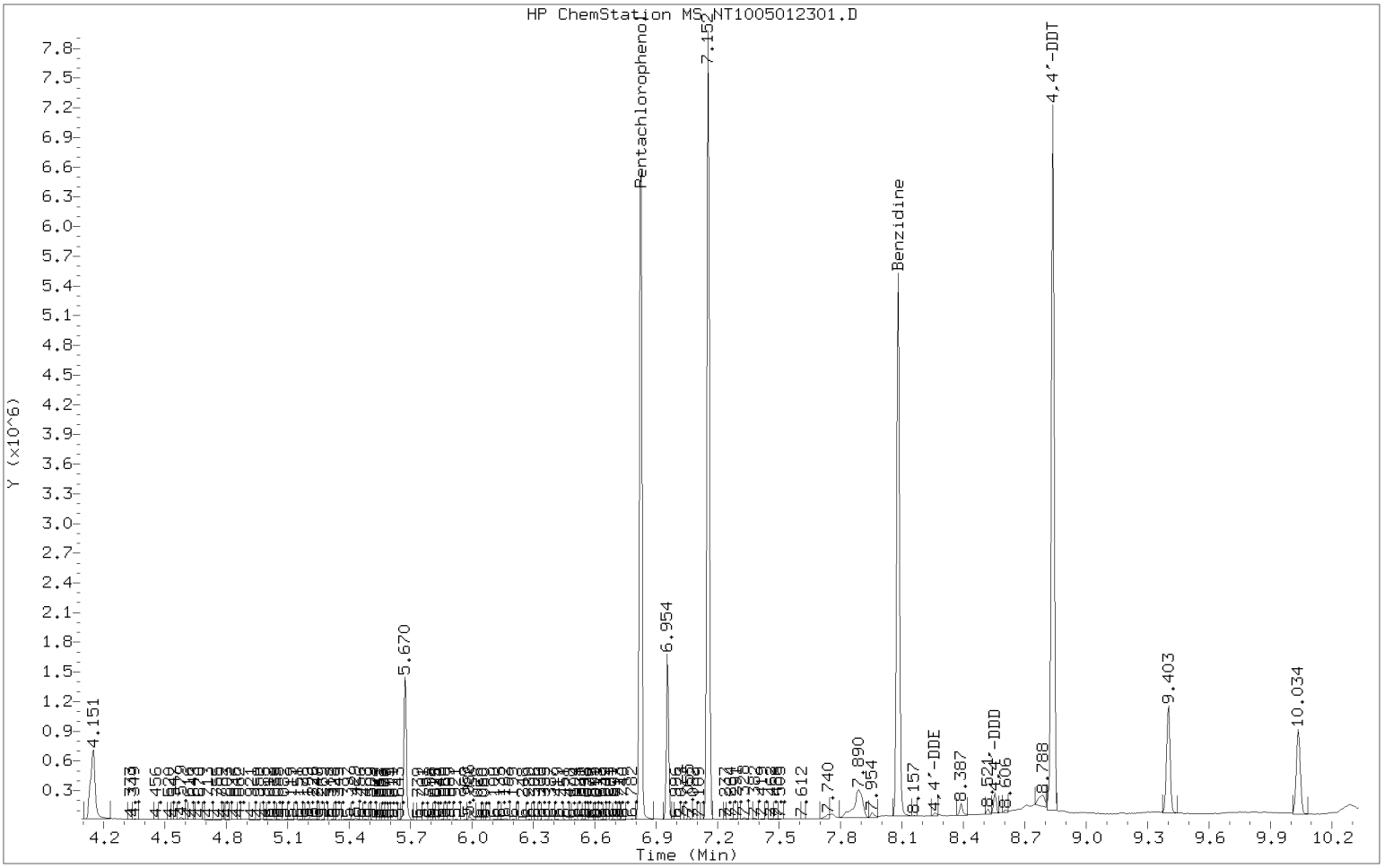
EPA 8270E

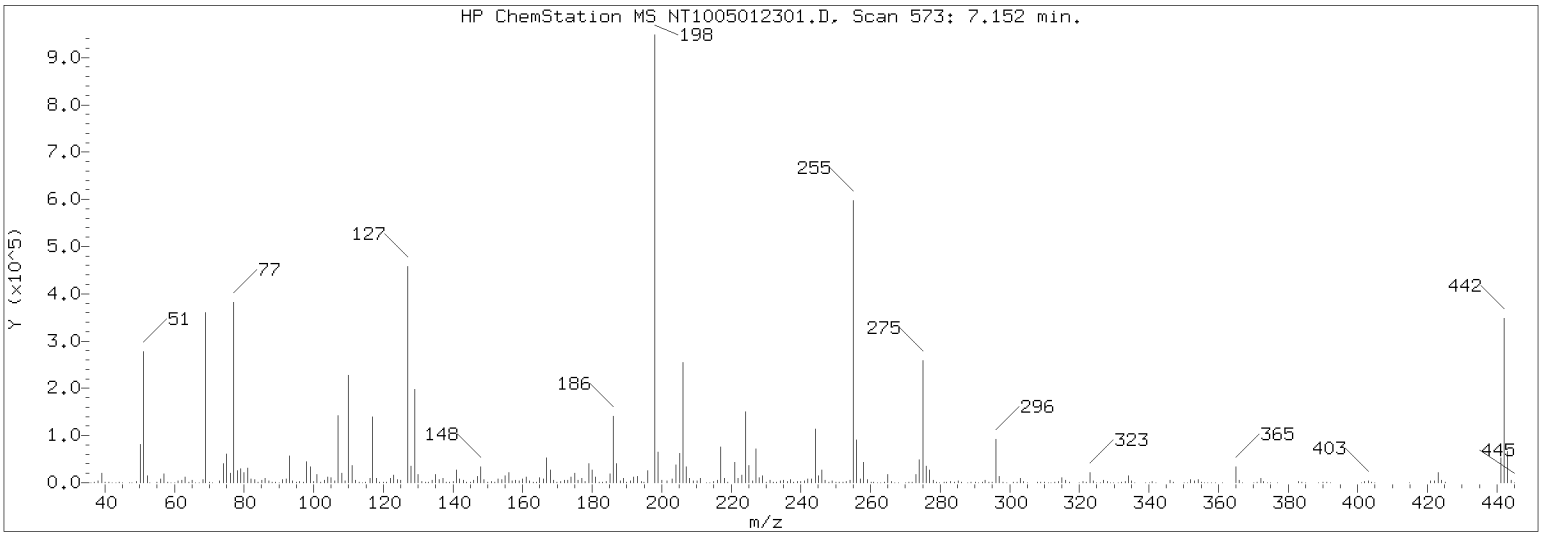
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00012	Instrument:	NT10
Calibration Date:	05/01/2023	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.560309	3.5			RSD (15)	
4-Methylphenol	1.373847	4.5			RSD (15)	
Naphthalene	1.11599	1.7			RSD (15)	
2-Methylnaphthalene	0.8343963	4.5			RSD (15)	
Acenaphthylene	2.128949	3.3			RSD (15)	
Dimethylphthalate	1.533664	2.5			RSD (15)	
Acenaphthene	1.354025	3.3			RSD (15)	
Dibenzofuran	1.974225	4.1			RSD (15)	
Fluorene	1.628635	4.8			RSD (15)	
Phenanthrene	1.17369	3.8			RSD (15)	
Anthracene	1.084587	7.9			RSD (15)	
Fluoranthene	1.785888	9.5			RSD (15)	
Pyrene	1.784019	6.7			RSD (15)	
Butylbenzylphthalate	0.6671669	17.5		0.9991	QCOD (0.99)	
Benzo(a)anthracene	1.583521	2.4			RSD (15)	
Chrysene	1.417307	4.3			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.5761948	10.2			RSD (15)	
Benzofluoranthenes, Total	1.581694	9.9			RSD (15)	
Benzo(a)pyrene	1.375365	11.1			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.652264	10.5			RSD (15)	
Dibenzo(a,h)anthracene	1.383763	11.2			RSD (15)	
Benzo(g,h,i)perylene	1.316965	6.0			RSD (15)	
2-Fluorophenol	1.210394	5.6			RSD (15)	
Phenol-d5	1.459284	8.2			RSD (15)	
2-Chlorophenol-d4	1.398479	7.1			RSD (15)	
1,2-Dichlorobenzene-d4	1.031697	4.5			RSD (15)	
Nitrobenzene-d5	0.4469969	4.8			RSD (15)	
2-Fluorobiphenyl	1.731717	2.6			RSD (15)	
2,4,6-Tribromophenol	0.1786492	22.8		0.9994	QCOD (0.99)	
p-Terphenyl-d14	1.410953	4.1			RSD (15)	

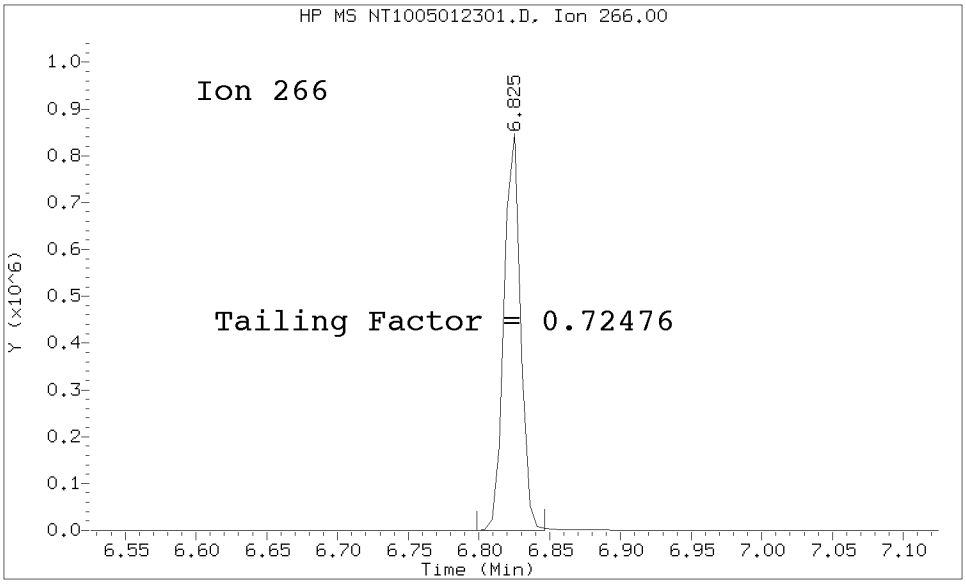
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SLE0036-TUN1 SLE0036-TUN1
Report Date: 05/10/2023 13:02



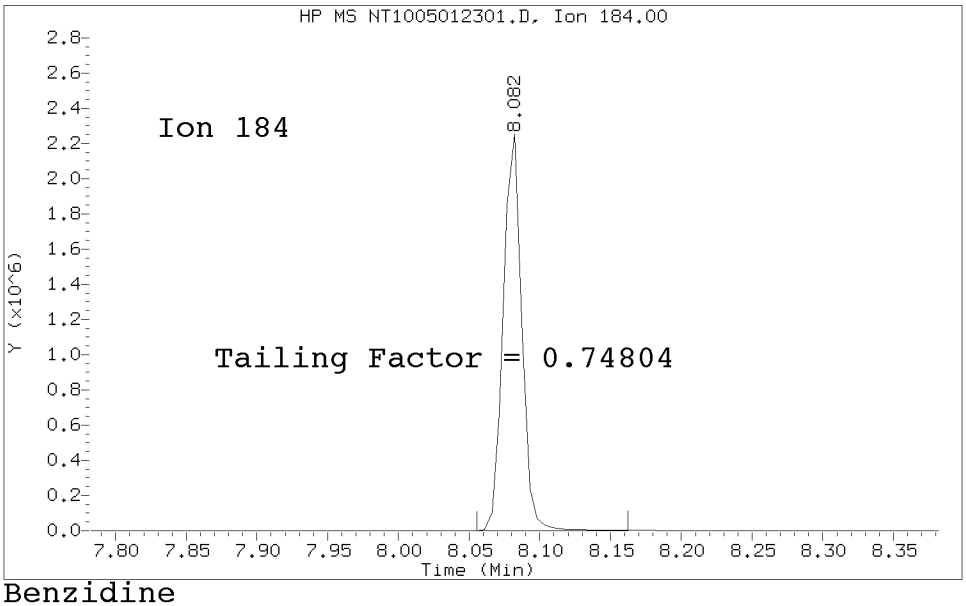


Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 05/10/2023 13:02



Pentachlorophenol
==========
Exp. RT = 6.825
Found RT = 6.825

Tail Factor = 0.725 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 8.082
Found RT = 8.082

Tail Factor = 0.748 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7247596	2.000	PASS
Benzidine	0.7480403	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1164719			N/A
4,4-DDE	2926	0.3	20.0	PASS
4,4-DDD	33911	2.8	20.0	PASS
4,4-DDD + DDE	36837	3.1	20.0	PASS

Tuning Sample, nt10.i/20230501.b/NT1005012301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.72 (1.96)
69	Mass 69 relative abundance	36.88
70	Less than 2.00% of mass 69	0.20 (0.55)
197	Less than 2.00% of mass 198	0.11
199	5.00 - 9.00% of mass 198	6.93
365	1.00 - 100.00% of mass 198	4.09
441	Less than 150.00% of mass 443	7.03 (80.18)
442	Less than 200.00% of mass 198	47.49
443	15.00 - 24.00% of mass 442	8.77 (18.47)

Data File: NT1005012301.D
Spectrum: Avg. Scans 572-574 (7.15), Background Scan 568
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	266	125.00	4346	212.00	234	301.00	794
37.00	1062	127.00	328512	213.00	499	302.00	1186
38.00	3056	128.00	24936	214.00	141	303.00	6845
39.00	14282	129.00	141504	215.00	2444	304.00	2076
40.00	661	130.00	12474	216.00	4556	305.00	403
41.00	397	131.00	2350	217.00	56176	308.00	947
42.00	221	132.00	1148	218.00	7190	309.00	634
43.00	80	133.00	478	219.00	698	310.00	860
44.00	92	134.00	4546	221.00	32104	311.00	269
45.00	530	135.00	11767	222.00	7235	312.00	310
47.00	208	136.00	4896	223.00	12138	313.00	707
48.00	116	137.00	6769	224.00	109928	314.00	2821
49.00	1662	138.00	1154	225.00	27736	315.00	8040
50.00	56312	139.00	780	226.00	3167	316.00	3993
51.00	192128	140.00	1727	227.00	54120	317.00	727
52.00	10009	141.00	19408	228.00	7820	319.00	76
53.00	358	142.00	5867	229.00	10633	320.00	151
55.00	1147	143.00	4287	230.00	1375	321.00	1907
56.00	6312	144.00	1130	231.00	3934	322.00	960
57.00	13026	145.00	910	232.00	656	323.00	17032
58.00	607	146.00	3437	233.00	991	324.00	3069
59.00	29	147.00	9663	234.00	3296	325.00	361
60.00	264	148.00	25112	235.00	3662	326.00	468
61.00	2852	149.00	5052	236.00	2488	327.00	4017
62.00	3614	150.00	1356	237.00	4890	328.00	1906
63.00	9148	151.00	2266	238.00	672	329.00	512
64.00	1235	152.00	1579	239.00	2237	330.00	120
65.00	4193	153.00	5832	240.00	1719	331.00	144
66.00	314	154.00	4463	241.00	2944	332.00	1493
67.00	446	155.00	10445	242.00	6490	333.00	1743
68.00	4951	156.00	15957	243.00	6227	334.00	11676
69.00	253056	157.00	2760	244.00	84584	335.00	2870
70.00	1385	158.00	3689	245.00	11413	336.00	350
71.00	272	159.00	2681	246.00	20384	339.00	198
73.00	2332	160.00	5980	247.00	4089	340.00	264
74.00	27976	161.00	9017	248.00	961	341.00	2132
75.00	42480	162.00	2681	249.00	2961	342.00	576
76.00	14168	163.00	992	250.00	651	346.00	4092
77.00	268224	164.00	986	251.00	842	347.00	762
78.00	18296	165.00	7696	252.00	860	350.00	110
79.00	21328	166.00	5725	253.00	2012	351.00	381
80.00	15604	167.00	38888	254.00	2343	352.00	5467
81.00	22424	168.00	19968	255.00	444992	353.00	3275
82.00	5265	169.00	3411	256.00	66248	354.00	5320
83.00	4677	170.00	1231	257.00	5829	355.00	1023
84.00	283	171.00	1591	258.00	33176	356.00	112
85.00	3741	172.00	3396	259.00	5397	357.00	124
86.00	6850	173.00	4390	260.00	852	358.00	174
87.00	2927	174.00	8520	261.00	736	359.00	318

88.00	1120	175.00	14893	262.00	111	361.00	131
89.00	591	176.00	3790	263.00	324	365.00	28088
90.00	101	177.00	7147	264.00	910	366.00	3777
91.00	5081	178.00	2450	265.00	12966	367.00	231
92.00	6151	179.00	29704	266.00	1919	370.00	495
93.00	40032	180.00	19936	267.00	184	371.00	1202
94.00	2667	181.00	8798	268.00	259	372.00	8009
95.00	587	182.00	1417	269.00	62	373.00	2002
96.00	1638	183.00	747	270.00	543	374.00	191
97.00	812	184.00	2226	271.00	976	375.00	50
98.00	31360	185.00	13981	272.00	1325	377.00	228
99.00	23592	186.00	102448	273.00	13189	383.00	2046
100.00	1856	187.00	29664	274.00	36512	384.00	449
101.00	12405	188.00	3546	275.00	194176	385.00	208
102.00	722	189.00	7144	276.00	25528	389.00	145
103.00	4260	190.00	1294	277.00	20736	390.00	1030
104.00	8414	191.00	3257	278.00	3713	391.00	705
105.00	7720	192.00	9275	279.00	791	392.00	459
106.00	2783	193.00	10621	280.00	54	395.00	59
107.00	100768	194.00	2025	281.00	351	401.00	403
108.00	14716	195.00	942	282.00	427	402.00	2822
109.00	3117	196.00	18840	283.00	2267	403.00	4000
110.00	161152	197.00	746	284.00	1368	404.00	1422
111.00	26016	198.00	686208	285.00	3442	405.00	290
112.00	3385	199.00	47528	286.00	615	410.00	95
113.00	1238	200.00	3588	288.00	189	415.00	166
114.00	319	201.00	2743	289.00	808	421.00	2808
115.00	590	202.00	87	290.00	702	422.00	2710
116.00	6423	203.00	5944	291.00	490	423.00	19704
117.00	102240	204.00	28184	292.00	872	424.00	5181
118.00	7245	205.00	46720	293.00	4158	425.00	574
119.00	721	206.00	185280	294.00	948	441.00	48248
120.00	1273	207.00	24280	295.00	1174	442.00	325888
121.00	749	208.00	7426	296.00	70416	443.00	60176
122.00	7214	209.00	2446	297.00	10070	444.00	5503
123.00	11141	210.00	3305	298.00	690	445.00	283
124.00	5150	211.00	7375	299.00	220		

Printed: 5/3/2023 2:33:16PM

ANALYSIS SEQUENCE

SLE0036

Instrument ID: NT10
Calibration ID: GE00012
MS EM Level: 1400 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L004747

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0036-TUN1	MS Tune	QC		1	L002618		05/01/2023 14:35	NT1005012301.D	JGR	
SLE0036-CAL1	0.2 ppm ABN	QC		2	K011105	K010831	05/01/2023 18:46	NT1005012308.D	VTS	
SLE0036-CAL2	0.5 ppm ABN	QC		3	K011106	K010831	05/01/2023 18:07	NT1005012307.D	VTS	
SLE0036-CAL3	1 ppm ABN	QC		4	K011107	K010831	05/01/2023 17:28	NT1005012306.D	VTS	
SLE0036-CAL4	2.5 ppm ABN	QC		5	K011108	K010831	05/01/2023 16:49	NT1005012305.D	VTS	
SLE0036-CAL5	5 ppm ABN	QC		6	K011109	K010831	05/01/2023 16:10	NT1005012304.D	VTS	
SLE0036-CAL6	10 ppm ABN	QC		7	K011110	K010831	05/01/2023 15:31	NT1005012303.D	VTS	
SLE0036-CAL7	20 ppm ABN	QC		8	K011111	K010831	05/01/2023 14:52	NT1005012302.D	VTS	
SLE0036-SCV1	SCV 5.0	QC		9	K010066	K010831	05/01/2023 20:43	NT1005012311.D	VTS	
SLE0036-ICB1	Initial Cal Blank	QC		10	K005156	K010831	05/01/2023 21:22	NT1005012312.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b

	Time	Filename	LabID	ClientId	DF																	
1	1435	NT1005012301.D	SLE0036-TUN1		1	|NO ISTDS FOUND||																
2	1452	NT1005012302.D	SLE0036-CAL7		1	| 9.50	146674	||12.00	540672	||15.63	301804	||18.69	570862	||23.71	491034	||26.55	317394	||24.75	805047	|	
3	1531	NT1005012303.D	SLE0036-CAL6		1	| 9.49	143173	||11.99	527883	||15.62	301848	||18.68	570788	||23.70	422654	||26.55	329659	||24.75	727542	|	
4	1610	NT1005012304.D	SLE0036-CAL5		1	| 9.49	144303	||11.99	493698	||15.62	279210	||18.68	521463	||23.70	369911	||26.55	311339	||24.75	626668	|	
5	1649	NT1005012305.D	SLE0036-CAL4		1	| 9.49	139256	||11.99	479621	||15.62	272839	||18.68	522698	||23.70	378327	||26.55	328795	||24.75	602724	|	
6	1728	NT1005012306.D	SLE0036-CAL3		1	| 9.49	162166	||11.99	539712	||15.62	305754	||18.68	569677	||23.69	438621	||26.54	394959	||24.74	688022	|	
7	1807	NT1005012307.D	SLE0036-CAL2		1	| 9.49	147126	||11.98	495631	||15.62	278249	||18.68	508190	||23.69	394033	||26.53	365729	||24.73	603762	|	
8	1846	NT1005012308.D	SLE0036-CAL1		1	| 9.49	159331	||11.98	560494	||15.61	302504	||18.67	560701	||23.69	440035	||26.52	398434	||24.72	654162	|	
9	2043	NT1005012311.D	SLE0036-SCV1		1	| 9.49	128837	||11.99	469135	||15.62	260867	||18.67	479585	||23.69	366214	||26.54	326407	||24.74	633915	|	
10	2122	NT1005012312.D	SLE0036-ICB1		1	| 9.49	149952	||11.98	548897	||15.62	293264	||18.67	524738	||23.69	405166	||26.54	379142	||24.74	599674	|	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b

ARI Job No.: SEQ- Method: DFTPP8270E.m Instrument: nt10.i Date: 01-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1435	NT1005012301.D	SEQ-TUN1		1	NO MANUAL INTEGRATION
1452	NT1005012302.D	SEQ-CAL7		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane), Benzoic acid,
1531	NT1005012303.D	SEQ-CAL6		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1610	NT1005012304.D	SEQ-CAL5		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1649	NT1005012305.D	SEQ-CAL4		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1728	NT1005012306.D	SEQ-CAL3		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1807	NT1005012307.D	SEQ-CAL2		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1846	NT1005012308.D	SEQ-CAL1		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane), Dibenzo(a,h)anthracene,
1925	NT1005012309.D	SEQ-SIM2		1	NO MANUAL INTEGRATION
2004	NT1005012310.D	SEQ-SIM1		1	NO MANUAL INTEGRATION
2043	NT1005012311.D	SEQ-SCV1		1	1,4-Dichlorobenzene-d4,
2122	NT1005012312.D	SEQ-ICB1		1	1,4-Dichlorobenzene-d4,

Security Status Report

Date: 03-May-2023 14:10

NT1005012301.D	Data Locked	deenayd, 03-
NT1005012302.D	Data Locked	deenayd, 03-
NT1005012303.D	Data Locked	deenayd, 03-
NT1005012304.D	Data Locked	deenayd, 03-
NT1005012305.D	Data Locked	deenayd, 03-
NT1005012306.D	Data Locked	deenayd, 03-
NT1005012307.D	Data Locked	deenayd, 03-
NT1005012308.D	Data Locked	deenayd, 03-
NT1005012309.D	Data Locked	deenayd, 03-
NT1005012310.D	Data Locked	deenayd, 03-
NT1005012311.D	Data Locked	deenayd, 03-
NT1005012312.D	Data Locked	deenayd, 03-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230501.b\NT1005012308.D
Level 2: \\target\share\chem3\nt10.i\20230501.b\NT1005012307.D
Level 3: \\target\share\chem3\nt10.i\20230501.b\NT1005012306.D
Level 4: \\target\share\chem3\nt10.i\20230501.b\NT1005012305.D
Level 5: \\target\share\chem3\nt10.i\20230501.b\NT1005012304.D
Level 6: \\target\share\chem3\nt10.i\20230501.b\NT1005012303.D
Level 7: \\target\share\chem3\nt10.i\20230501.b\NT1005012302.D

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

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Integrator : HP RTE
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Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

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Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
120 2,3,4,6-Tetrachlorophenol	4346 / 917902	12669	32485	82028	177328	428988	QUAD	0.000e+000	1.94569	-0.10036	0.99962	
178 2-Benzyl-4-Chlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
118 Triphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.50094	1.52321	1.55454	1.59588	1.56073	1.60986						
	1.54457						AVRG		1.55568		2.45512	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

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Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
106 Guaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.73396 / 0.80415	0.74018	0.75250	0.77022	0.74902	0.80481	AVRG		0.76498		3.82480	
151 1,2,4,5-Tetrachlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
153 Chlorpyrifos	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 Diazinon	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 Kelthane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
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Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Phenol	1.54709 / 1.54433	1.52827	1.51975	1.60245	1.51603	1.66425	AVRG		1.56031		3.47517
4 Bis(2-Chloroethyl)ether	1.20767 / 1.04531	1.14411	1.15284	1.13222	1.06223	1.15877	AVRG		1.12902		5.02937

ARI Labs, Inc.

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
6 2-Chlorophenol	1.34487	1.33170	1.34063	1.37973	1.33679	1.48978					
	1.40742						AVRG		1.37585		4.16121
7 1,3-Dichlorobenzene	1.59994	1.52533	1.49617	1.54393	1.49687	1.63792					
	1.55083						AVRG		1.55014		3.39221
9 1,4-Dichlorobenzene	1.58224	1.50940	1.48164	1.48067	1.45523	1.60525					
	1.54471						AVRG		1.52273		3.69792
11 Benzyl alcohol	0.64871	0.64484	0.72706	0.75860	0.77627	0.87251					
	0.82184						AVRG		0.74998		11.25890
12 1,2-Dichlorobenzene	1.52538	1.42664	1.41650	1.46620	1.41254	1.59766					
	1.50375						AVRG		1.47838		4.62652
13 2-Methylphenol	1.07299	1.12312	1.10507	1.16189	1.11802	1.25416					
	1.17559						AVRG		1.14440		5.18466
14 2,2'-oxybis(1-Chloropropane)	0.48390	0.43690	0.39189	0.41476	0.38975	0.46845					
	0.40318						AVRG		0.42698		8.75842

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 4-Methylphenol	1.34588	1.33921	1.32129	1.33472	1.37087	1.50022					
	1.40475						AVRG		1.37385		4.52720
16 N-Nitroso-di-n-propylamine	0.85031	0.88996	0.88988	0.93985	0.88898	0.97781					
	0.90823						AVRG		0.90643		4.55206
17 Hexachloroethane	0.62649	0.61825	0.63959	0.66268	0.65616	0.72145					
	0.68423						AVRG		0.65841		5.42335
19 Nitrobenzene	0.41538	0.44030	0.44563	0.45255	0.42672	0.43656					
	0.40679						AVRG		0.43199		3.82384
20 Isophorone	0.42595	0.46925	0.50316	0.52244	0.57933	0.53876					
	0.56109						AVRG		0.51428		10.36299
21 2-Nitrophenol	3761	10446	26205	61872	135168	310157					
	610580						QUAD	0.000e+000	4.35003	0.05591	0.99947
22 2,4-Dimethylphenol	+++++	0.42002	0.41275	0.42238	0.41623	0.43485					
	0.42481						AVRG		0.42184		1.82411

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23 Bis(2-Chloroethoxy)methane	0.31979	0.34369	0.33072	0.33150	0.32061	0.33698					
	0.31798						AVRG		0.32875		2.95128
24 Benzoic acid	+++++	39492	119940	311612	678934	1642196					
	3309159						QUAD	0.000e+000	3.42791	-0.02831	0.99901
25 2,4-Dichlorophenol	0.27779	0.30549	0.32582	0.33793	0.33658	0.37106					
	0.36507						AVRG		0.33139		9.81888
26 1,2,4-Trichlorobenzene	0.47465	0.48292	0.47857	0.47461	0.45786	0.48526					
	0.46866						AVRG		0.47465		1.95048
28 Naphthalene	1.12690	1.11485	1.12188	1.10077	1.08655	1.14677					
	1.11421						AVRG		1.11599		1.71736
29 4-Chloroaniline	0.35223	0.37831	0.39494	0.40909	0.41030	0.46610					
	0.46367						AVRG		0.41066		10.23266
30 Hexachlorobutadiene	0.26123	0.26442	0.26268	0.26245	0.25231	0.26961					
	0.25960						AVRG		0.26176		1.99905

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
31 4-Chloro-3-methylphenol	+++++	0.31753	0.34259	0.35190	0.36013	0.39551					
	0.39926						AVRG		0.36115		8.72665
32 2-Methylnaphthalene	0.79012	0.81785	0.80593	0.83300	0.82352	0.88427					
	0.88608						AVRG		0.83440		4.46348
33 Hexachlorocyclopentadiene	+++++	0.41189	0.44548	0.48333	0.49712	0.56102					
	0.58558						AVRG		0.49740		13.34415
34 2,4,6-Trichlorophenol	+++++	0.39122	0.44816	0.48072	0.49681	0.54794					
	0.57499						AVRG		0.48997		13.60616
35 2,4,5-Trichlorophenol	+++++	0.43607	0.48447	0.52371	0.53992	0.59598					
	0.62570						AVRG		0.53431		13.08343
37 2-Chloronaphthalene	1.30140	1.36557	1.36230	1.35215	1.34141	1.40202					
	1.42238						AVRG		1.36389		2.90632
38 2-Nitroaniline	+++++	0.33780	0.37441	0.41731	0.40439	0.42619					
	0.41649						AVRG		0.39610		8.53115

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
39 Dimethylphthalate	1.46570	1.50783	1.55012	1.56811	1.54640	1.57798					
	1.51951						AVRG		1.53366		2.53523
40 Acenaphthylene	2.00348	2.07518	2.13037	2.14658	2.14807	2.20097					
	2.19800						AVRG		2.12895		3.28064
41 2,6-Dinitrotoluene	+++++	0.29486	0.32382	0.34665	0.35397	0.38124					
	0.37649						AVRG		0.34617		9.44293
43 3-Nitroaniline	+++++	0.29047	0.31917	0.33219	0.33779	0.38006					
	0.38488						AVRG		0.34076		10.63640
44 Acenaphthene	1.31251	1.33219	1.33161	1.33698	1.32636	1.41662					
	1.42191						AVRG		1.35402		3.34199
45 2,4-Dinitrophenol	+++++	14366	49007	143085	348285	931559					
	2018441						QUAD	0.000e+000	3.76849	-0.11827	0.99811
46 Dibenzofuran	1.87898	1.89804	1.93698	1.98853	1.95590	2.07873					
	2.08241						AVRG		1.97423		4.10613

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 4-Nitrophenol	+++++ / 998518	14696	39582	100625	215878	501336	QUAD	0.000e+000	3.15042	-0.04085	0.99963
48 2,4-Dinitrotoluene	9342 / 1567355	26851	66923	161624	332505	782047	QUAD	0.000e+000	2.02844	-0.02063	0.99967
49 Fluorene	1.58286 / 1.76405	1.57082	1.58798	1.60145	1.57799	1.71530	AVRG		1.62863		4.77204
50 Diethylphthalate	1.41175 / 1.90619	1.49345	1.55297	1.58953	1.56519	1.62760	AVRG		1.59238		9.74336
51 4-Chlorophenyl-phenylether	0.78492 / 0.88792	0.76173	0.77812	0.80144	0.80327	0.85954	AVRG		0.81099		5.65348
52 4-Nitroaniline	+++++ / 1059767	18011	40151	88491	225829	533420	QUAD	0.000e+000	3.02140	-0.05244	0.99879
53 4,6-Dinitro-2-methylphenol	+++++ / 2135578	24240	68698	180156	397119	997636	QUAD	0.000e+000	6.41817	-0.29065	0.99925

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54 N-Nitrosodiphenylamine	0.50665	0.52278	0.54641	0.51536	0.52014	0.52990					
	0.55884						AVRG		0.52858		3.45093
56 4-Bromophenyl-phenylether	0.23021	0.23898	0.24210	0.24375	0.24766	0.27064					
	0.27338						AVRG		0.24953		6.52586
57 Hexachlorobenzene	0.25208	0.24314	0.24855	0.24408	0.24938	0.25438					
	0.26160						AVRG		0.25046		2.53236
58 Pentachlorophenol	+++++	13163	38553	95167	218051	563878					
	1284710						QUAD	0.000e+000	5.86950	-0.63894	0.99907
60 Phenanthrene	1.14642	1.15906	1.15410	1.13442	1.15228	1.20932					
	1.26023						AVRG		1.17369		3.82617
61 Anthracene	0.95184	1.02218	1.07669	1.06681	1.10191	1.16207					
	1.21061						AVRG		1.08459		7.90261
62 Carbazole	0.87045	0.97756	1.00200	0.92359	0.87053	0.98340					
	1.09291						AVRG		0.96006		8.24933

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63 Di-n-butylphthalate	27766	71030	175110	437568	920604	2208223					
	4565321						QUAD	0.000e+000	0.69674	-0.00911	0.99966
64 Fluoranthene	1.51724	1.64362	1.73268	1.85199	1.91941	2.01929					
	1.81698						AVRG		1.78589		9.50493
65 Pyrene	1.61105	1.67669	1.74930	1.81992	1.91024	1.94111					
	1.77982						AVRG		1.78402		6.65429
67 Butylbenzylphthalate	10403	27273	71706	169922	360782	827854					
	1736632						QUAD	0.000e+000	1.19314	0.06093	0.99947
68 Benzo(a)anthracene	1.57656	1.55932	1.59017	1.58473	1.63927	1.61381					
	1.52080						AVRG		1.58352		2.39623
70 3,3'-Dichlorobenzidine	+++++	74000	170399	326864	595388	1833732					
	5247678						QUAD	0.000e+000	2.08146	-0.06379	0.99737
71 Chrysene	1.46266	1.51149	1.41922	1.41566	1.40099	1.39588					
	1.31525						AVRG		1.41731		4.27952

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72 bis(2-Ethylhexyl)phthalate	0.46548	0.53948	0.55999	0.61419	0.61315	0.62220					
	0.61887						AVRG		0.57619		10.17291
73 Di-n-octylphthalate	1.11076	1.08053	1.06530	1.03963	1.02801	1.04516					
	1.01768						AVRG		1.05530		3.07585
74 Benzo(b)fluoranthene	1.40169	1.43280	1.57119	1.60593	1.65887	1.83243					
	1.99934						AVRG		1.64318		12.95904
75 Benzo(k)fluoranthene	1.50685	1.60893	1.51616	1.53451	1.66870	1.69628					
	1.88241						AVRG		1.63055		8.20104
187 Total Benzofluoranthenes	1.43293	1.46792	1.48946	1.51395	1.60342	1.69058					
	1.87360						AVRG		1.58169		9.85235
76 Benzo(a)pyrene	1.22178	1.24219	1.30017	1.32077	1.40459	1.48675					
	1.65131						AVRG		1.37537		11.08117
78 Indeno(1,2,3-cd)pyrene	1.47784	1.52929	1.54704	1.58956	1.67153	1.77425					
	1.97635						AVRG		1.65226		10.50730

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79 Dibenzo(a,h)anthracene	1.31655	1.24173	1.29108	1.30585	1.36789	1.46624					
	1.69699						AVRG		1.38376		11.21556
80 Benzo(g,h,i)perylene	1.26937	1.24026	1.25633	1.28219	1.32631	1.38709					
	1.45720						AVRG		1.31697		6.01928
90 N-Nitrosodimethylamine	0.64275	0.63410	0.63476	0.66046	0.62423	0.71815					
	0.66202						AVRG		0.65378		4.83713
91 Aniline	1.26404	1.24049	1.21817	1.29444	1.25249	1.42027					
	1.31197						AVRG		1.28598		5.22129
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	61320	142247	272765	530664	1583457					
	4129583						QUAD	0.000e+000	1.57061	-0.04589	0.99755
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
103 Pyridine	0.96654 / 1.10003	1.00243	1.03459	1.05659	0.94727	1.10903	AVRG		1.03093		6.07107	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.13650	1.15525	1.18137	1.24607	1.18572	1.33446						
	1.23338						AVRG		1.21039		5.55691	
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.31349	1.35101	1.39687	1.49855	1.44676	1.65114						
	1.55717						AVRG		1.45928		8.15461	
$ 5 2-Chlorophenol-d4	1.32069	1.30421	1.32440	1.42408	1.37122	1.57628						
	1.46848						AVRG		1.39848		7.05075	
$ 10 1,2-Dichlorobenzene-d4	1.02742	1.01323	0.98566	1.03213	0.98319	1.11494						
	1.06531						AVRG		1.03170		4.49300	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
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Quant Method : ISTD
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Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 18 Nitrobenzene-d5	0.40682	0.43694	0.46881	0.46109	0.45148	0.46339					
	0.44045						AVRG		0.44700		4.76457
$ 36 2-Fluorobiphenyl	1.74662	1.69572	1.71650	1.69561	1.68590	1.78039					
	1.80128						AVRG		1.73172		2.62113
$ 55 2,4,6-Tribromophenol	2793	7502	18231	45436	100361	244125					
	542414						QUAD	0.000e+000	5.22131	-0.58763	0.99964
$ 66 Terphenyl-d14	1.31967	1.36969	1.39867	1.41822	1.48115	1.48168					
	1.40758						AVRG		1.41095		4.11036
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
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Quant Method : ISTD
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Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
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Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09
FILENAME:	NT1005012302	NT1005012303	NT1005012304	NT1005012305	NT1005012306	NT1005012307	NT1005012308	NT1005012311	NT1005012312
INJ.DATE:	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023
INJ.TIME:	14:52	15:31	16:10	16:49	17:28	18:07	18:46	20:43	21:22

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.238	7.238	7.230	7.231	7.238	7.231	7.231	+++++	7.231	7.238	4.238-10.238	7.234	0.004
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.645	5.645-11.645	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.455	14.455-20.455	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.696	17.696-23.696	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.219	16.219-22.219	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.949	19.949-25.949	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.503	17.503-23.503	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.827	4.827-10.827	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.748	24.747	24.747	24.748	24.740	24.732	24.724	24.740	24.740	24.748	21.748-27.748	24.741	0.008
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.355	16.347	16.347	16.347	16.347	16.347	16.339	16.339	+++++	16.355	13.355-19.355	16.346	0.005
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	17.057	17.049	17.041	17.042	17.034	17.034	17.034	17.034	+++++	17.057	14.057-20.057	17.041	0.009
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
		+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
106	Guaiacol	13.662	13.654	13.654	13.655	13.654	13.655	13.647	13.647	+++++	13.662	10.662-16.662	13.654	0.005
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
151	1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
152	Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
153	Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
154	Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
155	Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
156	Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
157	Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
158	Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
159	4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
160	Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
161	1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
162	1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
163	1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
164	1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
165	1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
166	Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
167	2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.830	5.830-11.830	8.818	0.006
$ 2	Phenol-d5	8.830	8.822	8.822	8.815	8.814	8.815	8.815	+++++	8.814	8.853	5.853-11.853	8.841	0.006
3	Phenol	8.853	8.845	8.837	8.838	8.838	8.838	8.838	8.838	+++++	9.039	6.039-12.039	9.026	0.006
4	Bis(2-Chloroethyl)ethe	9.039	9.031	9.023	9.023	9.023	9.023	9.023	9.023	+++++	9.131	6.131-12.131	9.123	0.004
$ 5	2-Chlorophenol-d4	9.131	9.123	9.123	9.124	9.123	9.116	9.123	+++++	9.123				

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	9.162	9.154	9.154	9.147	9.147	9.147	9.147	9.147	+++++	9.162	6.162-12.162	9.150	0.006
	7 1,3-Dichlorobenzene	9.433	9.433	9.433	9.425	9.433	9.425	9.425	9.425	+++++	9.433	6.433-12.433	9.429	0.004
*	8 1,4-Dichlorobenzene-d4	9.495	9.495	9.495	9.487	9.495	9.487	9.487	9.487	9.487	9.495	6.495-12.495	9.491	0.004
	9 1,4-Dichlorobenzene	9.526	9.526	9.526	9.526	9.526	9.518	9.518	9.518	+++++	9.526	6.526-12.526	9.523	0.004
$	10 1,2-Dichlorobenzene-d4	9.860	9.860	9.852	9.852	9.852	9.852	9.852	+++++	9.852	9.860	6.860-12.860	9.854	0.004
	11 Benzyl alcohol	9.759	9.751	9.751	9.751	9.751	9.751	9.751	9.751	+++++	9.759	6.759-12.759	9.752	0.003
	12 1,2-Dichlorobenzene	9.883	9.883	9.883	9.883	9.883	9.875	9.875	9.875	+++++	9.883	6.883-12.883	9.880	0.004
	13 2-Methylphenol	9.976	9.968	9.968	9.961	9.961	9.961	9.961	9.961	+++++	9.976	6.976-12.976	9.965	0.006
	14 2,2'-oxybis(1-Chloropr	10.062	10.054	10.054	10.054	10.054	10.046	10.046	10.054	+++++	10.062	7.062-13.062	10.053	0.005
	15 4-Methylphenol	10.248	10.240	10.232	10.232	10.232	10.225	10.232	10.233	+++++	10.248	7.248-13.248	10.234	0.007
	16 N-Nitroso-di-n-propyla	10.333	10.318	10.317	10.310	10.310	10.310	10.310	10.310	+++++	10.333	7.333-13.333	10.315	0.008
	17 Hexachloroethane	10.481	10.481	10.480	10.481	10.481	10.473	10.473	10.473	+++++	10.481	7.481-13.481	10.478	0.004
$	18 Nitrobenzene-d5	10.605	10.597	10.597	10.589	10.589	10.589	10.589	+++++	10.589	10.605	7.605-13.605	10.593	0.006
	19 Nitrobenzene	10.636	10.636	10.628	10.628	10.628	10.628	10.628	10.628	+++++	10.636	7.636-13.636	10.630	0.004
	20 Isophorone	11.094	11.078	11.070	11.071	11.070	11.071	11.063	11.071	+++++	11.094	8.094-14.094	11.073	0.009
	21 2-Nitrophenol	11.266	11.258	11.257	11.258	11.258	11.258	11.249	11.258	+++++	11.266	8.266-14.266	11.258	0.005
	22 2,4-Dimethylphenol	11.300	11.292	11.283	11.283	11.283	11.283	11.283	11.283	+++++	11.300	8.300-14.300	11.286	0.006
	23 Bis(2-Chloroethoxy)met	11.504	11.495	11.495	11.487	11.487	11.487	11.487	11.487	+++++	11.504	8.504-14.504	11.491	0.006
	24 Benzoic acid	11.631	11.555	11.487	11.436	11.402	11.377	11.360	11.428	+++++	11.631	8.631-14.631	11.459	0.093
	25 2,4-Dichlorophenol	11.716	11.707	11.707	11.708	11.699	11.699	11.699	11.699	+++++	11.716	8.716-14.716	11.704	0.006
	26 1,2,4-Trichlorobenzene	11.907	11.899	11.899	11.899	11.899	11.899	11.899	11.899	+++++	11.907	8.907-14.907	11.900	0.003
*	27 Naphthalene-d8	11.999	11.991	11.991	11.992	11.991	11.984	11.984	11.992	11.984	11.999	8.999-14.999	11.990	0.005
	28 Naphthalene	12.038	12.038	12.030	12.030	12.030	12.030	12.022	12.030	+++++	12.038	9.038-15.038	12.031	0.005
	29 4-Chloroaniline	12.161	12.153	12.153	12.154	12.153	12.146	12.146	12.146	+++++	12.161	9.161-15.161	12.152	0.005

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.385	12.385	12.385	12.385	12.385	12.385	12.378	12.385	+++++	12.385	9.385-15.385	12.384	0.003
	31 4-Chloro-3-methylpheno	13.105	13.097	13.097	13.097	13.097	13.090	13.090	13.090	+++++	13.105	10.105-16.105	13.095	0.005
	32 2-Methylnaphthalene	13.438	13.430	13.430	13.430	13.430	13.430	13.422	13.423	+++++	13.438	10.438-16.438	13.429	0.005
	33 Hexachlorocyclopentadi	13.895	13.894	13.894	13.895	13.894	13.895	13.887	13.887	+++++	13.895	10.895-16.895	13.892	0.004
	34 2,4,6-Trichlorophenol	14.057	14.049	14.049	14.042	14.041	14.042	14.041	14.042	+++++	14.057	11.057-17.057	14.045	0.006
	35 2,4,5-Trichlorophenol	14.127	14.119	14.119	14.119	14.111	14.111	14.111	14.111	+++++	14.127	11.127-17.127	14.116	0.006
$	36 2-Fluorobiphenyl	14.212	14.212	14.211	14.212	14.204	14.204	14.204	14.204	14.204	14.212	11.212-17.212	14.207	0.004
	37 2-Chloronaphthalene	14.436	14.436	14.428	14.429	14.428	14.428	14.421	14.429	+++++	14.436	11.436-17.436	14.429	0.005
	38 2-Nitroaniline	14.699	14.691	14.684	14.684	14.684	14.684	14.676	14.676	+++++	14.699	11.699-17.699	14.685	0.008
	39 Dimethylphthalate	15.125	15.117	15.109	15.110	15.109	15.102	15.102	15.102	+++++	15.125	12.125-18.125	15.110	0.008
	40 Acenaphthylene	15.319	15.311	15.311	15.311	15.303	15.303	15.303	15.303	+++++	15.319	12.319-18.319	15.308	0.006
	41 2,6-Dinitrotoluene	15.272	15.264	15.256	15.257	15.249	15.249	15.249	15.249	+++++	15.272	12.272-18.272	15.256	0.009
*	42 Acenaphthene-d10	15.628	15.620	15.620	15.620	15.620	15.620	15.613	15.620	15.620	15.628	12.628-18.628	15.620	0.004
	43 3-Nitroaniline	15.566	15.551	15.543	15.543	15.535	15.535	15.527	15.535	+++++	15.566	12.566-18.566	15.542	0.012
	44 Acenaphthene	15.698	15.690	15.690	15.690	15.690	15.682	15.682	15.682	+++++	15.698	12.698-18.698	15.688	0.005
	45 2,4-Dinitrophenol	15.783	15.759	15.759	15.752	15.752	15.744	15.744	15.744	+++++	15.783	12.783-18.783	15.755	0.013
	46 Dibenzofuran	16.030	16.022	16.014	16.015	16.014	16.015	16.007	16.007	+++++	16.030	13.030-19.030	16.015	0.008
	47 4-Nitrophenol	15.868	15.844	15.836	15.837	15.829	15.829	15.829	15.829	+++++	15.868	12.868-18.868	15.838	0.013
	48 2,4-Dinitrotoluene	16.092	16.076	16.068	16.069	16.061	16.061	16.061	16.061	+++++	16.092	13.092-19.092	16.069	0.011
	49 Fluorene	16.741	16.741	16.733	16.733	16.733	16.726	16.726	16.733	+++++	16.741	13.741-19.741	16.733	0.006
	50 Diethylphthalate	16.587	16.579	16.571	16.571	16.563	16.563	16.556	16.564	+++++	16.587	13.587-19.587	16.569	0.010
	51 4-Chlorophenyl-phenyle	16.718	16.718	16.718	16.710	16.710	16.710	16.702	16.710	+++++	16.718	13.718-19.718	16.712	0.005
	52 4-Nitroaniline	16.865	16.833	16.826	16.818	16.810	16.811	16.810	16.811	+++++	16.865	13.865-19.865	16.823	0.019
	53 4,6-Dinitro-2-methylph	16.942	16.926	16.910	16.911	16.903	16.903	16.903	16.903	+++++	16.942	13.942-19.942	16.913	0.014

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	16.980	16.972	16.964	16.965	16.957	16.957	16.957	16.957	+++++	16.980	13.980-19.980	16.964	0.009
$	55 2,4,6-Tribromophenol	17.281	17.273	17.273	17.273	17.265	17.265	17.265	17.266	17.265	17.281	14.281-20.281	17.270	0.006
	56 4-Bromophenyl-phenylet	17.728	17.728	17.728	17.728	17.728	17.720	17.713	17.720	+++++	17.728	14.728-20.728	17.724	0.006
	57 Hexachlorobenzene	18.060	18.052	18.052	18.053	18.053	18.045	18.045	18.045	+++++	18.060	15.060-21.060	18.051	0.005
	58 Pentachlorophenol	18.417	18.409	18.409	18.401	18.401	18.401	18.393	18.401	+++++	18.417	15.417-21.417	18.404	0.007
*	59 Phenanthrene-d10	18.687	18.679	18.679	18.680	18.680	18.680	18.672	18.672	18.672	18.687	15.687-21.687	18.678	0.005
	60 Phenanthrene	18.734	18.734	18.733	18.726	18.726	18.726	18.718	18.718	+++++	18.734	15.734-21.734	18.727	0.006
	61 Anthracene	18.827	18.826	18.826	18.819	18.819	18.819	18.811	18.819	+++++	18.827	15.827-21.827	18.821	0.005
	62 Carbazole	19.152	19.144	19.144	19.144	19.144	19.136	19.136	19.136	+++++	19.152	16.152-22.152	19.142	0.005
	63 Di-n-butylphthalate	19.918	19.910	19.909	19.910	19.910	19.910	19.902	19.902	+++++	19.918	16.918-22.918	19.909	0.005
	64 Fluoranthene	21.101	21.093	21.093	21.094	21.093	21.086	21.086	21.086	+++++	21.101	18.101-24.101	21.092	0.005
	65 Pyrene	21.527	21.519	21.519	21.519	21.511	21.511	21.504	21.511	+++++	21.527	18.527-24.527	21.515	0.007
$	66 Terphenyl-d14	21.790	21.790	21.790	21.790	21.782	21.782	21.774	21.782	21.782	21.790	18.790-24.790	21.785	0.005
	67 Butylbenzylphthalate	22.704	22.696	22.703	22.704	22.696	22.696	22.688	22.696	+++++	22.704	19.704-25.704	22.698	0.005
	68 Benzo(a)anthracene	23.679	23.671	23.671	23.671	23.664	23.656	23.656	23.664	+++++	23.679	20.679-26.679	23.667	0.008
*	69 Chrysene-d12	23.710	23.702	23.702	23.702	23.695	23.695	23.687	23.695	23.695	23.710	20.710-26.710	23.698	0.007
	70 3,3'-Dichlorobenzidine	23.633	23.625	23.617	23.617	23.617	23.610	23.602	23.617	+++++	23.633	20.633-26.633	23.617	0.009
	71 Chrysene	23.757	23.749	23.749	23.749	23.741	23.733	23.733	23.741	+++++	23.757	20.757-26.757	23.744	0.008
	72 bis(2-Ethylhexyl)phtha	23.710	23.710	23.718	23.718	23.710	23.702	23.702	23.710	+++++	23.710	20.710-26.710	23.710	0.006
	73 Di-n-octylphthalate	24.763	24.755	24.755	24.755	24.747	24.748	24.740	24.748	+++++	24.763	21.763-27.763	24.751	0.007
	74 Benzo(b)fluoranthene	25.700	25.700	25.692	25.692	25.676	25.669	25.661	25.684	+++++	25.700	22.700-28.700	25.684	0.014
	75 Benzo(k)fluoranthene	25.754	25.746	25.738	25.738	25.731	25.723	25.715	25.731	+++++	25.754	22.754-28.754	25.735	0.012
	187 Total Benzofluoranthen	25.754	25.746	25.692	25.692	25.731	25.669	25.661	25.684	+++++	25.754	22.754-28.754	25.704	0.035
	76 Benzo(a)pyrene	26.435	26.427	26.419	26.420	26.412	26.397	26.389	26.404	+++++	26.435	23.435-29.435	26.413	0.016

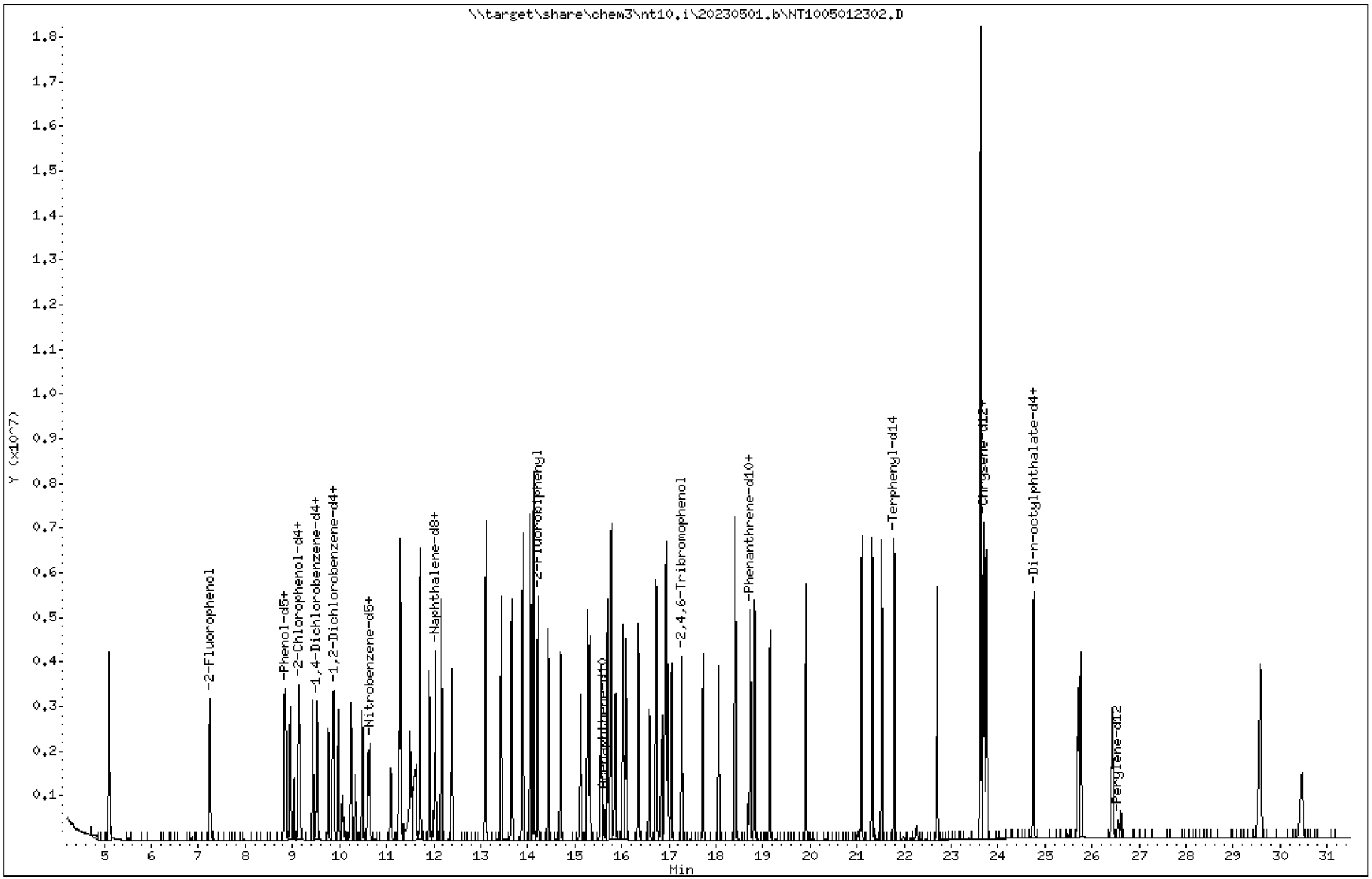
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	26.552	26.551	26.551	26.552	26.536	26.528	26.520	26.536	26.536	26.552	23.552-29.552	26.540	0.012
	78 Indeno(1,2,3-cd)pyrene	29.577	29.545	29.545	29.530	29.514	29.491	29.483	29.515	+++++	29.577	26.577-32.577	29.525	0.031
	79 Dibenzo(a,h)anthracene	29.584	29.561	29.545	29.546	29.530	29.507	29.491	29.522	+++++	29.584	26.584-32.584	29.536	0.030
	80 Benzo(g,h,i)perylene	30.462	30.431	30.423	30.416	30.400	30.377	30.353	30.392	+++++	30.462	27.462-33.462	30.407	0.034
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	5.091	5.091	5.075	5.068	5.083	5.075	5.083	5.068	+++++	5.091	2.091-8.091	5.079	0.009
	91 Aniline	8.954	8.946	8.946	8.938	8.946	8.938	8.938	+++++	+++++	8.954	5.954-11.954	8.944	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	21.326	21.318	21.318	21.318	21.318	21.310	21.310	21.310	+++++	21.326	18.326-24.326	21.316	0.005
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	5.099	5.098	5.098	5.099	5.122	5.122	5.145	5.099	+++++	5.099	2.099-8.099	5.110	0.018
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012302.D
Date : 01-MAY-2023 14:52
Client ID:
Sample Info: SLE0036-CAL7

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 01-MAY-2023 14:52
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Smp Info : SLE0036-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 14:52 Cal File: NT1005012302.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.238	7.230	(1.000)	1356790	30.0000	30.57
$	2 Phenol-d5	99	8.830	8.814	(1.000)	1712978	30.0000	32.01
	3 Phenol	94	8.853	8.837	(1.000)	1132567	20.0000	19.80
$	5 2-Chlorophenol-d4	132	9.131	9.123	(1.000)	1615405	30.0000	31.50
	4 Bis(2-Chloroethyl)ether	93	9.038	9.023	(1.000)	766599	20.0000	18.52
	6 2-Chlorophenol	128	9.162	9.146	(1.000)	1032161	20.0000	20.46
	7 1,3-Dichlorobenzene	146	9.432	9.425	(1.000)	1137329	20.0000	20.01
*	8 1,4-Dichlorobenzene-d4	152	9.495	9.487	(1.000)	146674	4.00000	(M)
	9 1,4-Dichlorobenzene	146	9.526	9.518	(1.000)	1132842	20.0000	20.29
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.851	(1.000)	781268	20.0000	20.65
	12 1,2-Dichlorobenzene	146	9.883	9.875	(1.000)	1102805	20.0000	20.34
	11 Benzyl alcohol	108	9.758	9.750	(1.000)	602716	20.0000	21.92
	14 2,2'-oxybis(1-Chloropropane)	121	10.061	10.046	(1.060)	295678	20.0000	18.89(M)
	13 2-Methylphenol	108	9.976	9.960	(1.000)	862143	20.0000	20.55
	17 Hexachloroethane	117	10.480	10.472	(1.000)	501796	20.0000	20.78
	16 N-Nitroso-di-n-propylamine	70	10.333	10.309	(1.000)	666067	20.0000	20.04
	15 4-Methylphenol	108	10.247	10.232	(1.000)	1030205	20.0000	20.45
$	18 Nitrobenzene-d5	82	10.604	10.589	(0.884)	1190693	20.0000	19.71
	19 Nitrobenzene	77	10.636	10.628	(0.886)	1099699	20.0000	18.83
	20 Isophorone	82	11.093	11.062	(0.925)	1516817	20.0000	21.82
	21 2-Nitrophenol	139	11.266	11.249	(0.939)	610580	20.0000	19.94
	22 2,4-Dimethylphenol	107	11.300	11.283	(0.942)	2296855	40.0000	40.28
	23 Bis(2-Chloroethoxy)methane	93	11.503	11.486	(0.959)	859617	20.0000	19.34
	24 Benzoic acid	105	11.631	11.359	(0.969)	3309159	80.0000	79.68(M)
	25 2,4-Dichlorophenol	162	11.716	11.698	(0.976)	1973834	40.0000	44.07
	26 1,2,4-Trichlorobenzene	180	11.906	11.898	(0.992)	1266951	20.0000	19.75
*	27 Naphthalene-d8	136	11.999	11.983	(1.000)	540672	4.00000	
	28 Naphthalene	128	12.037	12.022	(1.003)	3012121	20.0000	19.97
	29 4-Chloroaniline	127	12.161	12.145	(1.014)	2506949	40.0000	45.16
	30 Hexachlorobutadiene	225	12.385	12.377	(1.032)	701796	20.0000	19.84
	31 4-Chloro-3-methylphenol	107	13.105	13.089	(1.092)	2158694	40.0000	44.22
	32 2-Methylnaphthalene	142	13.437	13.422	(1.120)	2395384	20.0000	21.24
	33 Hexachlorocyclopentadiene	237	13.894	13.886	(0.889)	1767292	40.0000	47.09
	34 2,4,6-Trichlorophenol	196	14.057	14.041	(0.899)	1735348	40.0000	46.94

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
35	2,4,5-Trichlorophenol	196	14.126	14.111	(0.904)	1888379	40.0000	46.84
$ 36	2-Fluorobiphenyl	172	14.211	14.203	(0.909)	2718174	20.0000	20.80
37	2-Chloronaphthalene	162	14.436	14.420	(0.924)	2146393	20.0000	20.86
38	2-Nitroaniline	65	14.699	14.676	(0.941)	1256984	40.0000	42.06
39	Dimethylphthalate	163	15.125	15.101	(0.968)	2292966	20.0000	19.82
40	Acenaphthylene	152	15.318	15.303	(0.980)	3316824	20.0000	20.65
41	2,6-Dinitrotoluene	165	15.272	15.248	(0.977)	1136258	40.0000	43.50
* 42	Acenaphthene-d10	164	15.628	15.612	(1.000)	301804	4.00000	
43	3-Nitroaniline	138	15.566	15.527	(0.996)	1161580	40.0000	45.18
44	Acenaphthene	153	15.697	15.682	(1.004)	2145695	20.0000	21.00
45	2,4-Dinitrophenol	184	15.782	15.743	(1.010)	2018441	80.0000	79.65
46	Dibenzofuran	168	16.030	16.006	(1.026)	3142404	20.0000	21.10
47	4-Nitrophenol	109	15.867	15.828	(1.015)	998518	40.0000	39.90
48	2,4-Dinitrotoluene	165	16.091	16.060	(1.030)	1567355	40.0000	39.91
50	Diethylphthalate	149	16.586	16.555	(1.061)	2876482	20.0000	23.94
49	Fluorene	166	16.741	16.725	(1.071)	2661981	20.0000	21.66
51	4-Chlorophenyl-phenylether	204	16.718	16.702	(1.070)	1339888	20.0000	21.90
52	4-Nitroaniline	138	16.864	16.810	(1.079)	1059767	40.0000	39.85
53	4,6-Dinitro-2-methylphenol	198	16.941	16.902	(0.907)	2135578	80.0000	79.77
54	N-Nitrosodiphenylamine	169	16.980	16.956	(0.909)	1595115	20.0000	21.14
$ 55	2,4,6-Tribromophenol	330	17.280	17.265	(1.106)	542414	30.0000	29.94
56	4-Bromophenyl-phenylether	248	17.728	17.712	(0.949)	780300	20.0000	21.91
57	Hexachlorobenzene	284	18.060	18.044	(0.966)	746701	20.0000	20.89
58	Pentachlorophenol	266	18.416	18.393	(0.986)	1284710	40.0000	39.89
* 59	Phenanthrene-d10	188	18.687	18.671	(1.000)	570862	4.00000	
60	Phenanthrene	178	18.733	18.718	(1.002)	3597084	20.0000	21.47
61	Anthracene	178	18.826	18.811	(1.007)	3455448	20.0000	22.32
62	Carbazole	167	19.151	19.136	(1.025)	3119493	20.0000	22.77
63	Di-n-butylphthalate	149	19.917	19.901	(1.066)	4565321	20.0000	19.96
64	Fluoranthene	202	21.101	21.085	(0.890)	4461007	20.0000	20.35
65	Pyrene	202	21.526	21.503	(0.908)	4369758	20.0000	19.95
$ 66	Terphenyl-d14	244	21.789	21.774	(0.919)	3455859	20.0000	19.95
67	Butylbenzylphthalate	149	22.703	22.687	(0.958)	1736632	20.0000	19.93
68	Benzo(a)anthracene	228	23.679	23.655	(0.999)	3733816	20.0000	19.21
* 69	Chrysene-d12	240	23.710	23.686	(1.000)	491034	4.00000	
70	3,3'-Dichlorobenzidine	252	23.632	23.601	(0.997)	5247678	60.0000	59.84
71	Chrysene	228	23.756	23.733	(1.002)	3229170	20.0000	18.56
72	bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	2491116	20.0000	21.48
* 134	Di-n-octylphthalate-d4	153	24.747	24.724	(1.000)	805047	4.00000	
73	Di-n-octylphthalate	149	24.763	24.739	(1.001)	4096386	20.0000	19.29
74	Benzo(b)fluoranthene	252	25.699	25.660	(0.968)	3172895	20.0000	24.34
75	Benzo(k)fluoranthene	252	25.753	25.715	(0.970)	2987328	20.0000	23.09
76	Benzo(a)pyrene	252	26.435	26.388	(0.996)	2620584	20.0000	24.01
* 77	Perylene-d12	264	26.551	26.520	(1.000)	317394	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.576	29.483	(1.114)	3136410	20.0000	23.92
79	Dibenzo(a,h)anthracene	278	29.584	29.491	(1.114)	2693071	20.0000	24.53
80	Benzo(g,h,i)perylene	276	30.462	30.353	(1.147)	2312534	20.0000	22.13
90	N-Nitrosodimethylamine	74	5.090	5.083	(1.000)	971017	40.0000	40.50
91	Aniline	93	8.953	8.938	(1.000)	1924317	40.0000	40.81
93	Benzidine	184	21.325	21.310	(0.899)	4129583	40.0000	39.85
103	Pyridine	79	5.098	5.144	(1.000)	1613461	40.0000	42.68
105	1-methylnaphthalene	142	13.662	13.646	(1.139)	2173917	20.0000	21.02
111	Azobenzene (1,2-DP-Hydrazine)	77	17.057	17.034	(1.091)	2330788	20.0000	19.86
187	Total Benzofluoranthenes	252	25.753	25.660	(0.970)	5946684	40.0000	47.38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.354	16.339	(1.046)	917902	20.0000	19.96

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012302.D
Lab Smp Id: SLE0036-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	146674	1.64
27 Naphthalene-d8	493698	246849	987396	540672	9.51
42 Acenaphthene-d10	279210	139605	558420	301804	8.09
59 Phenanthrene-d10	521463	260732	1042926	570862	9.47
69 Chrysene-d12	369911	184956	739822	491034	32.74
134 Di-n-octylphthala	626668	313334	1253336	805047	28.46
77 Perylene-d12	311339	155670	622678	317394	1.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.00
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.07
42 Acenaphthene-d10	15.62	15.12	16.12	15.63	0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.69	0.04
69 Chrysene-d12	23.70	23.20	24.20	23.71	0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.75	0.00
77 Perylene-d12	26.55	26.05	27.05	26.55	0.00

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

REVIEW SUMMARY FOR FILE - NT1005012302.D

Lab ID: SLE0036-CAL7
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 14:52

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.969	0.948	0.0214	Benzoic acid

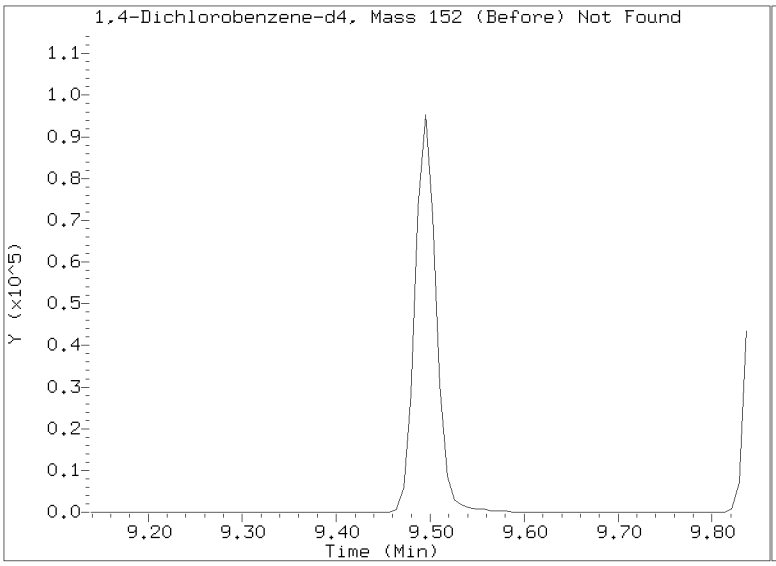
RRT check based on Ccal File: NT1005012308.D

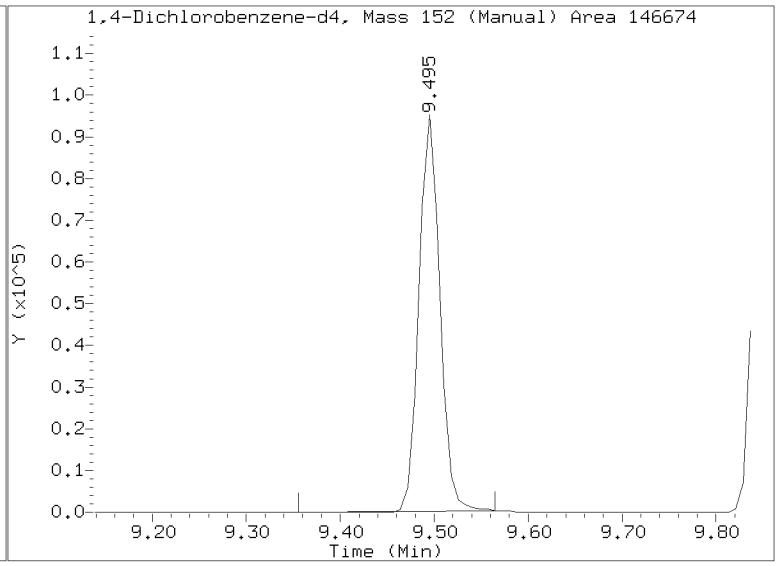
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

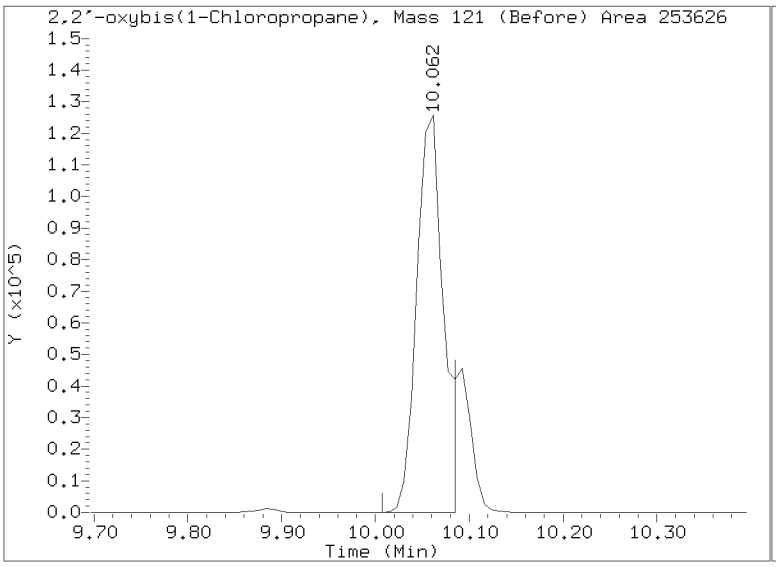
* Only compounds listed in the work order have been verified by the analyst *

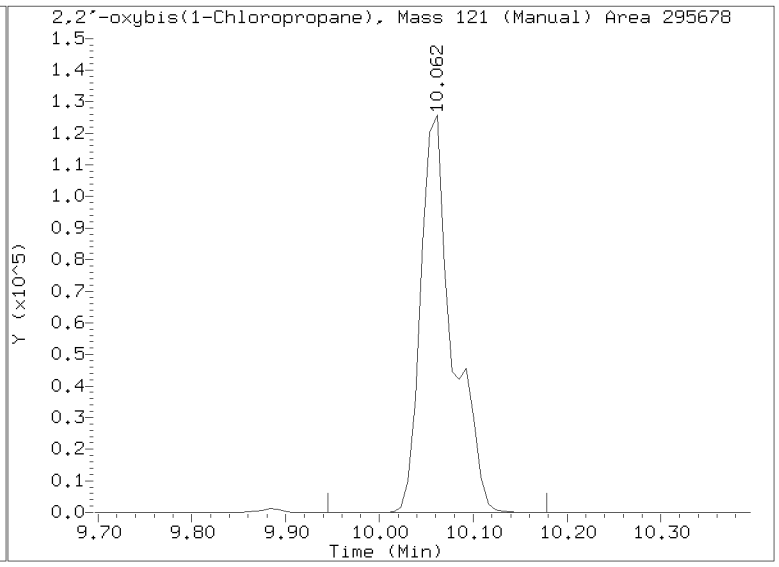
Quant Ion Manual Peak Adjustment Report

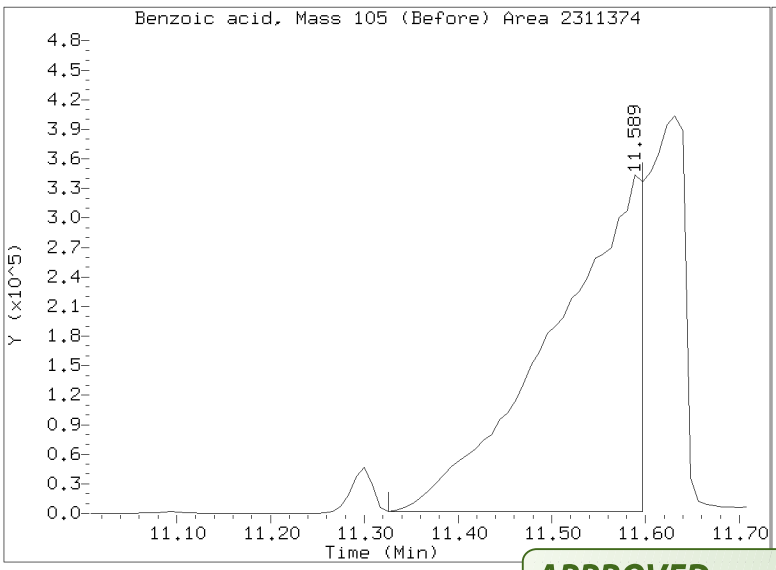
Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012302.D
Injection Date: 01-MAY-2023 14:52
Lab ID:SLE0036-CAL7 Client ID:
Report Date: 05/08/2023 09:56

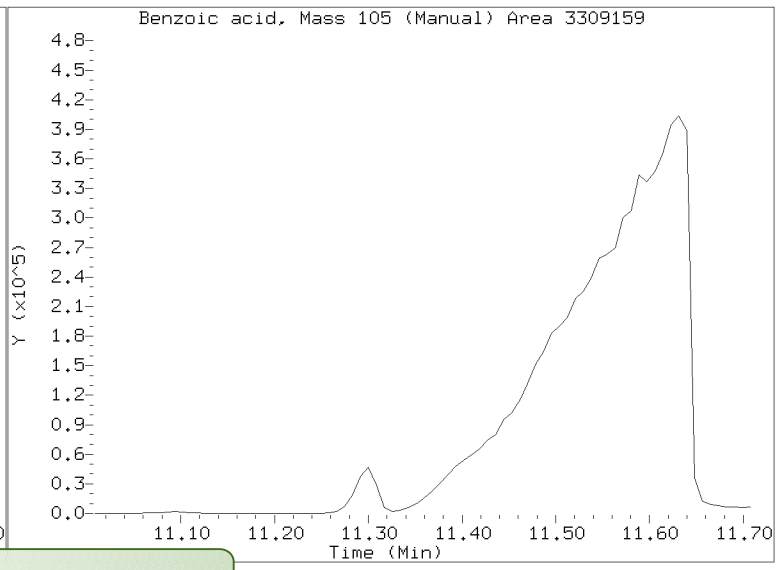








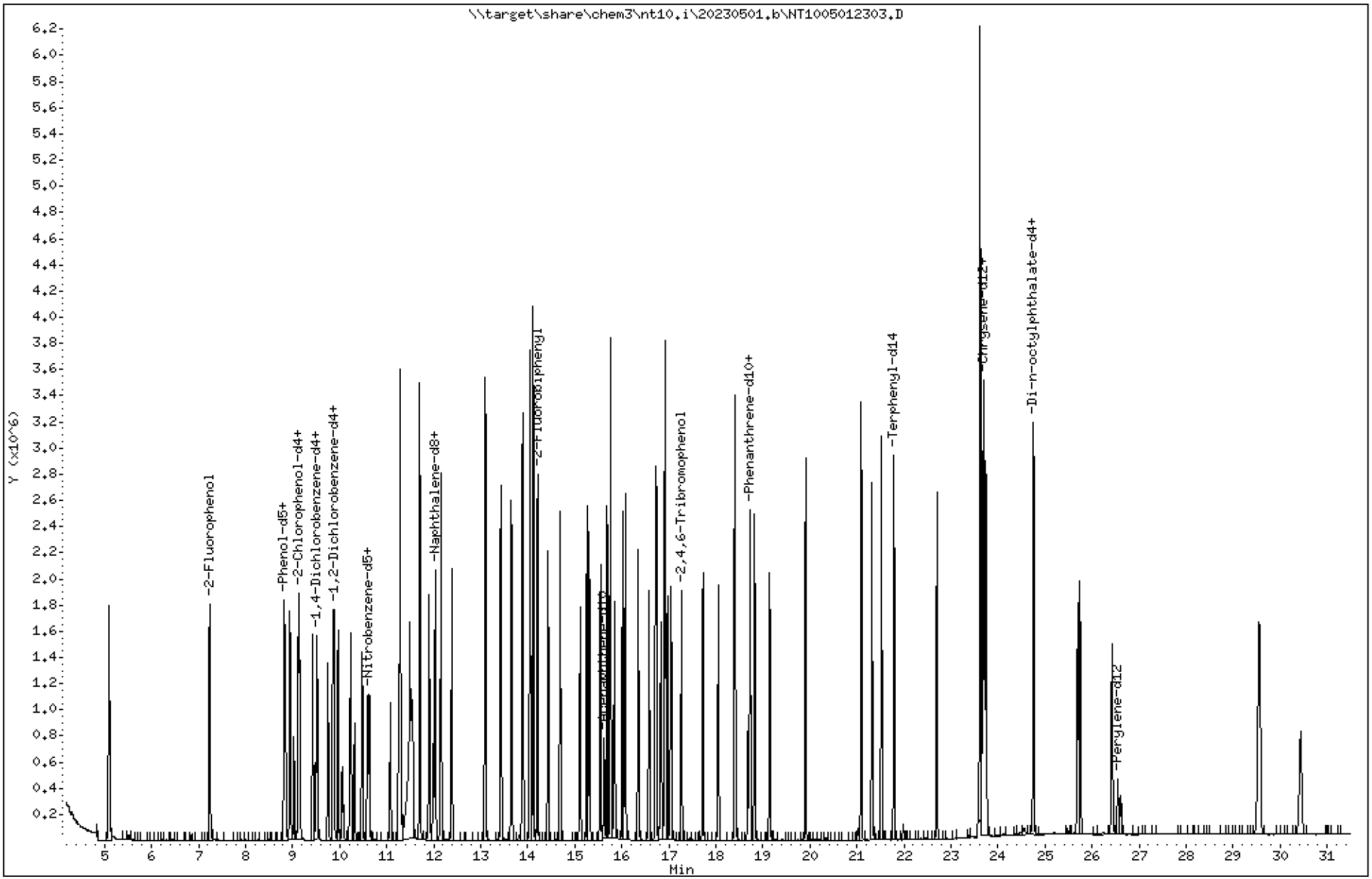




APPROVED
By Deenay Dunmore at 10:01 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012303.D
Date : 01-MAY-2023 15:31
Client ID:
Sample Info: SLE0036-CAL6

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 558 of 4865

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012303.D
Lab Smp Id: SLE0036-CAL6
Inj Date : 01-MAY-2023 15:31
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-CAL6
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 15:31 Cal File: NT1005012303.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	7.238	7.230	(1.000)	716468	15.0000	16.54	
$	2 Phenol-d5	99	8.822	8.814	(1.000)	886495	15.0000	16.97	
	3 Phenol	94	8.845	8.837	(1.000)	595688	10.0000	10.67	
$	5 2-Chlorophenol-d4	132	9.123	9.123	(1.000)	846301	15.0000	16.91	
	4 Bis(2-Chloroethyl)ether	93	9.030	9.023	(1.000)	414760	10.0000	10.26	
	6 2-Chlorophenol	128	9.154	9.146	(1.000)	533240	10.0000	10.83	
	7 1,3-Dichlorobenzene	146	9.432	9.425	(1.000)	586266	10.0000	10.57	
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.487	(1.000)	143173	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.525	9.518	(1.000)	574570	10.0000	10.54	
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.851	(1.000)	399075	10.0000	10.81	
	12 1,2-Dichlorobenzene	146	9.882	9.875	(1.000)	571854	10.0000	10.81	
	11 Benzyl alcohol	108	9.750	9.750	(1.000)	312300	10.0000	11.63	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.059)	167675	10.0000	10.97	(M)
	13 2-Methylphenol	108	9.968	9.960	(1.000)	448906	10.0000	10.96	
	17 Hexachloroethane	117	10.480	10.472	(1.000)	258231	10.0000	10.96	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.309	(1.000)	349990	10.0000	10.79	
	15 4-Methylphenol	108	10.240	10.232	(1.000)	536978	10.0000	10.92	
$	18 Nitrobenzene-d5	82	10.597	10.589	(0.884)	611545	10.0000	10.37	
	19 Nitrobenzene	77	10.635	10.628	(0.887)	576126	10.0000	10.11	
	20 Isophorone	82	11.078	11.062	(0.924)	711010	10.0000	10.48	
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	310157	10.0000	10.30	
	22 2,4-Dimethylphenol	107	11.291	11.283	(0.942)	1147762	20.0000	20.62	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.486	(0.959)	444709	10.0000	10.25	
	24 Benzoic acid	105	11.554	11.359	(0.964)	1642196	40.0000	41.56	
	25 2,4-Dichlorophenol	162	11.707	11.698	(0.976)	979376	20.0000	22.39	
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	640400	10.0000	10.22	
*	27 Naphthalene-d8	136	11.991	11.983	(1.000)	527883	4.00000		
	28 Naphthalene	128	12.037	12.022	(1.004)	1513403	10.0000	10.28	
	29 4-Chloroaniline	127	12.153	12.145	(1.014)	1230229	20.0000	22.70	
	30 Hexachlorobutadiene	225	12.385	12.377	(1.033)	355809	10.0000	10.30	
	31 4-Chloro-3-methylphenol	107	13.097	13.089	(1.092)	1043912	20.0000	21.90	
	32 2-Methylnaphthalene	142	13.429	13.422	(1.120)	1166977	10.0000	10.60	
	33 Hexachlorocyclopentadiene	237	13.894	13.886	(0.890)	846710	20.0000	22.56	
	34 2,4,6-Trichlorophenol	196	14.049	14.041	(0.899)	826979	20.0000	22.37	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
35	2,4,5-Trichlorophenol	196	14.118	14.111	(0.904)	899480	20.0000	22.31
$ 36	2-Fluorobiphenyl	172	14.211	14.203	(0.910)	1343519	10.0000	10.28
37	2-Chloronaphthalene	162	14.436	14.420	(0.924)	1057992	10.0000	10.28
38	2-Nitroaniline	65	14.691	14.676	(0.941)	643227	20.0000	21.52
39	Dimethylphthalate	163	15.117	15.101	(0.968)	1190778	10.0000	10.29
40	Acenaphthylene	152	15.310	15.303	(0.980)	1660899	10.0000	10.34
41	2,6-Dinitrotoluene	165	15.264	15.248	(0.977)	575381	20.0000	22.03
* 42	Acenaphthene-d10	164	15.620	15.612	(1.000)	301848	4.00000	
43	3-Nitroaniline	138	15.550	15.527	(0.996)	573602	20.0000	22.31
44	Acenaphthene	153	15.689	15.682	(1.004)	1069011	10.0000	10.46
45	2,4-Dinitrophenol	184	15.759	15.743	(1.009)	931559	40.0000	42.02
46	Dibenzofuran	168	16.022	16.006	(1.026)	1568652	10.0000	10.53
47	4-Nitrophenol	109	15.844	15.828	(1.014)	501336	20.0000	20.48
48	2,4-Dinitrotoluene	165	16.076	16.060	(1.029)	782047	20.0000	20.47
50	Diethylphthalate	149	16.578	16.555	(1.061)	1228219	10.0000	10.22
49	Fluorene	166	16.740	16.725	(1.072)	1294399	10.0000	10.53
51	4-Chlorophenyl-phenylether	204	16.717	16.702	(1.070)	648628	10.0000	10.60
52	4-Nitroaniline	138	16.833	16.810	(1.078)	533420	20.0000	20.70
53	4,6-Dinitro-2-methylphenol	198	16.926	16.902	(0.906)	997636	40.0000	41.32
54	N-Nitrosodiphenylamine	169	16.972	16.956	(0.909)	756150	10.0000	10.02
$ 55	2,4,6-Tribromophenol	330	17.272	17.265	(1.106)	244125	15.0000	15.35
56	4-Bromophenyl-phenylether	248	17.727	17.712	(0.949)	386201	10.0000	10.85
57	Hexachlorobenzene	284	18.052	18.044	(0.966)	362996	10.0000	10.16
58	Pentachlorophenol	266	18.408	18.393	(0.986)	563878	20.0000	20.70
* 59	Phenanthrene-d10	188	18.679	18.671	(1.000)	570788	4.00000	
60	Phenanthrene	178	18.733	18.718	(1.003)	1725660	10.0000	10.30
61	Anthracene	178	18.826	18.811	(1.008)	1658240	10.0000	10.71
62	Carbazole	167	19.143	19.136	(1.025)	1403288	10.0000	10.24
63	Di-n-butylphthalate	149	19.909	19.901	(1.066)	2208223	10.0000	10.24
64	Fluoranthene	202	21.093	21.085	(0.890)	2133657	10.0000	11.31
65	Pyrene	202	21.518	21.503	(0.908)	2051047	10.0000	10.88
$ 66	Terphenyl-d14	244	21.789	21.774	(0.919)	1565596	10.0000	10.50
67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	827854	10.0000	10.28
68	Benzo(a)anthracene	228	23.671	23.655	(0.999)	1705203	10.0000	10.19
* 69	Chrysene-d12	240	23.702	23.686	(1.000)	422654	4.00000	
70	3,3'-Dichlorobenzidine	252	23.624	23.601	(0.997)	1833732	30.0000	31.32
71	Chrysene	228	23.748	23.733	(1.002)	1474931	10.0000	9.849
72	bis(2-Ethylhexyl)phthalate	149	23.709	23.702	(0.958)	1131685	10.0000	10.80
* 134	Di-n-octylphthalate-d4	153	24.747	24.724	(1.000)	727542	4.00000	
73	Di-n-octylphthalate	149	24.755	24.739	(1.000)	1900999	10.0000	9.904
74	Benzo(b)fluoranthene	252	25.699	25.660	(0.968)	1510192	10.0000	11.15
75	Benzo(k)fluoranthene	252	25.746	25.715	(0.970)	1397987	10.0000	10.40
76	Benzo(a)pyrene	252	26.427	26.388	(0.995)	1225298	10.0000	10.81
* 77	Perylene-d12	264	26.551	26.520	(1.000)	329659	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.545	29.483	(1.113)	1462247	10.0000	10.74
79	Dibenzo(a,h)anthracene	278	29.560	29.491	(1.113)	1208402	10.0000	10.60
80	Benzo(g,h,i)perylene	276	30.430	30.353	(1.146)	1143163	10.0000	10.53
90	N-Nitrosodimethylamine	74	5.090	5.083	(1.000)	514100	20.0000	21.97
91	Aniline	93	8.945	8.938	(1.000)	1016719	20.0000	22.09
93	Benzidine	184	21.317	21.310	(0.899)	1583457	20.0000	20.96
103	Pyridine	79	5.098	5.144	(1.000)	793917	20.0000	21.52
105	1-methylnaphthalene	142	13.654	13.646	(1.139)	1062118	10.0000	10.52
111	Azobenzene (1,2-DP-Hydrazine)	77	17.049	17.034	(1.091)	1214831	10.0000	10.35
187	Total Benzofluoranthenes	252	25.746	25.660	(0.970)	2786568	20.0000	21.38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.339	(1.047)	428988	10.0000	10.25

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012303.D
Lab Smp Id: SLE0036-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	143173	-0.78
27 Naphthalene-d8	493698	246849	987396	527883	6.92
42 Acenaphthene-d10	279210	139605	558420	301848	8.11
59 Phenanthrene-d10	521463	260732	1042926	570788	9.46
69 Chrysene-d12	369911	184956	739822	422654	14.26
134 Di-n-octylphthala	626668	313334	1253336	727542	16.10
77 Perylene-d12	311339	155670	622678	329659	5.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	0.00
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
134 Di-n-octylphthala	24.75	24.25	25.25	24.75	0.00
77 Perylene-d12	26.55	26.05	27.05	26.55	0.00

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

REVIEW SUMMARY FOR FILE - NT1005012303.D

Lab ID: SLE0036-CAL6
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 15:31

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.964	0.948	0.0157	Benzoic acid

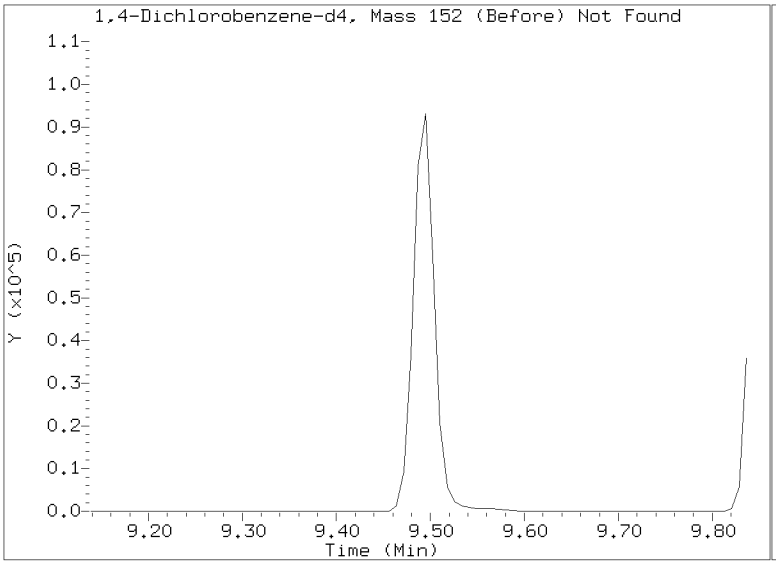
RRT check based on Ccal File: NT1005012308.D

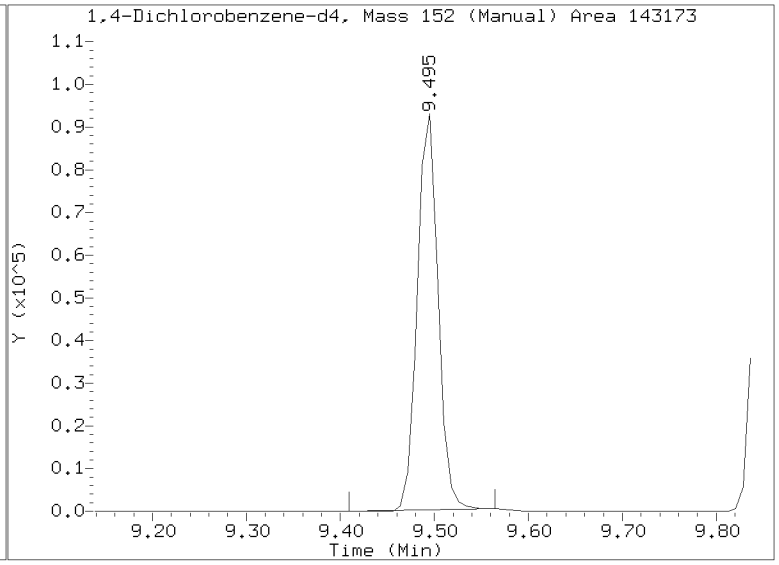
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

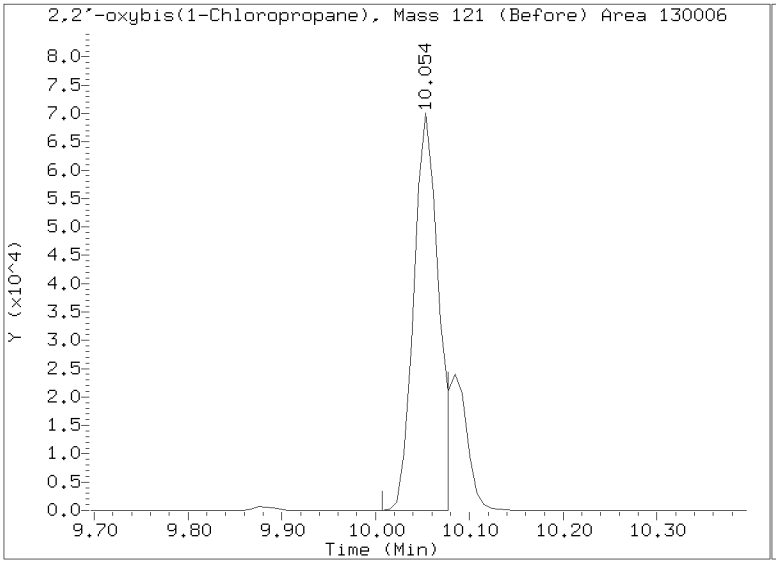
* Only compounds listed in the work order have been verified by the analyst *

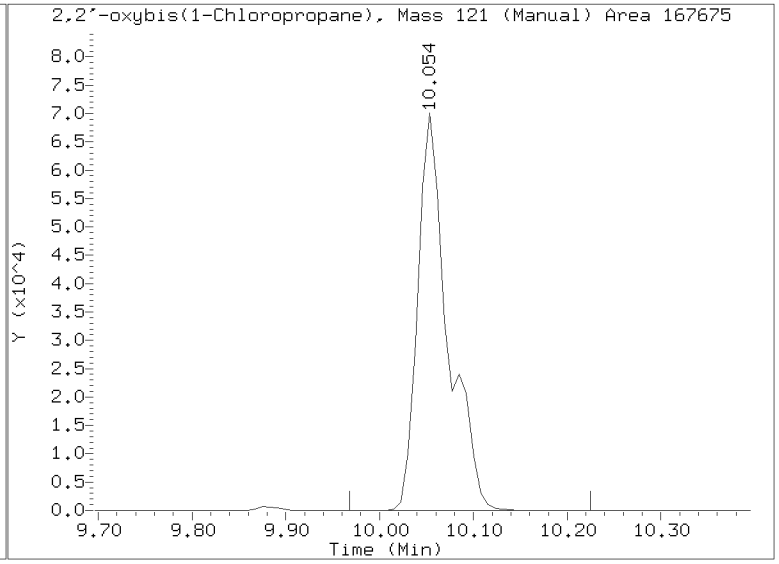
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012303.D
Injection Date: 01-MAY-2023 15:31
Lab ID:SLE0036-CAL6 Client ID:
Report Date: 05/08/2023 09:57







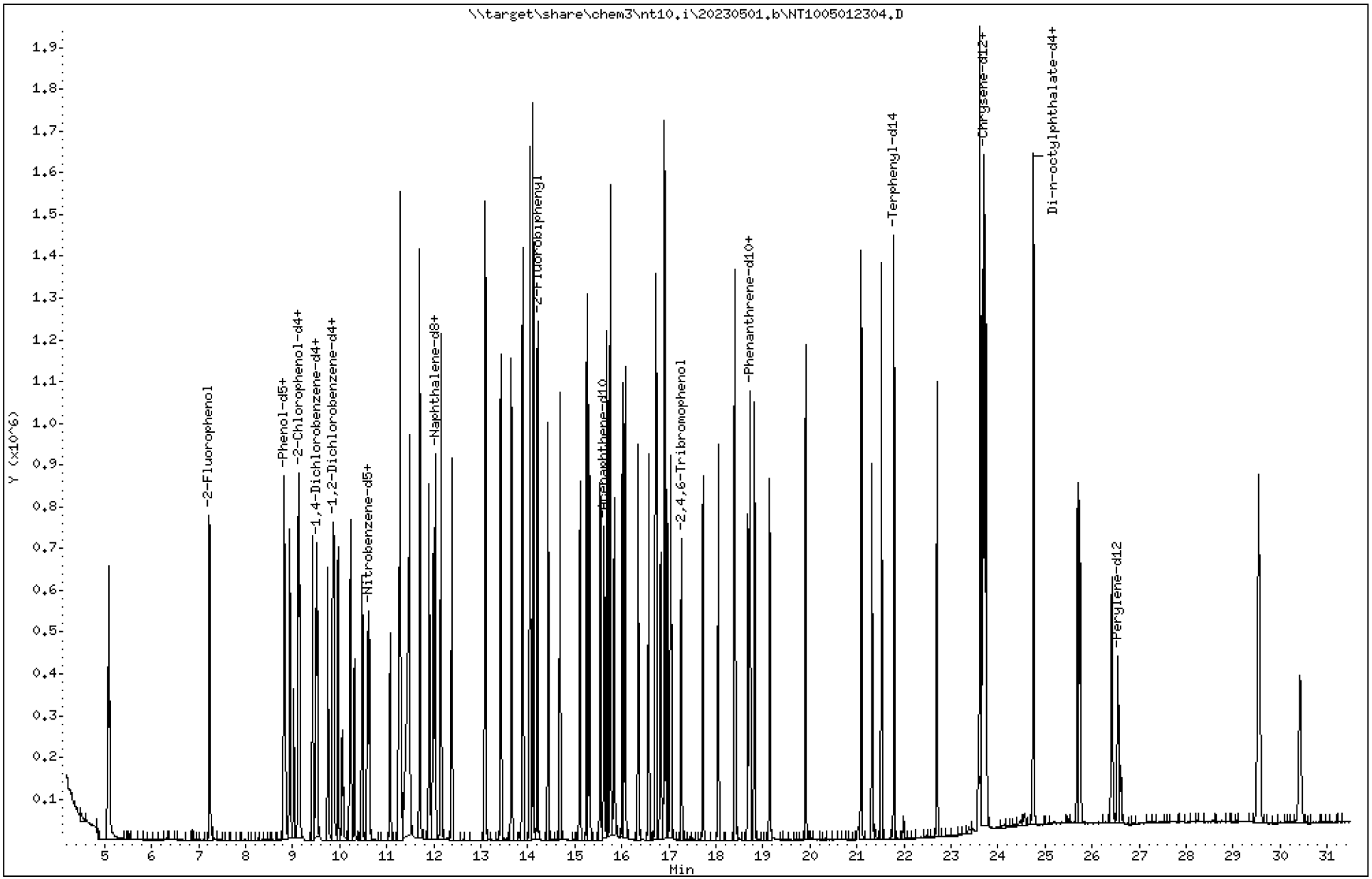


APPROVED

By Deenay Dunmore at 10:02 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012304.D
Date : 01-MAY-2023 16:10
Client ID:
Sample Info: SLE0036-CAL5

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012304.D
Lab Smp Id: SLE0036-CAL5
Inj Date : 01-MAY-2023 16:10
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 16:10 Cal File: NT1005012304.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	7.230	7.230	(1.000)	320818	7.50000	7.347	
$	2 Phenol-d5	99	8.821	8.814	(1.000)	391447	7.50000	7.436	
	3 Phenol	94	8.837	8.837	(1.000)	273459	5.00000	4.858	
$	5 2-Chlorophenol-d4	132	9.123	9.123	(1.000)	371009	7.50000	7.354	
	4 Bis(2-Chloroethyl)ether	93	9.022	9.023	(1.000)	191603	5.00000	4.704	
	6 2-Chlorophenol	128	9.154	9.146	(1.000)	241128	5.00000	4.858	
	7 1,3-Dichlorobenzene	146	9.432	9.425	(1.000)	270004	5.00000	4.828	
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.487	(1.000)	144303	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.525	9.518	(1.000)	262493	5.00000	4.778	
$	10 1,2-Dichlorobenzene-d4	152	9.851	9.851	(1.000)	177347	5.00000	4.765	
	12 1,2-Dichlorobenzene	146	9.882	9.875	(1.000)	254792	5.00000	4.777	
	11 Benzyl alcohol	108	9.750	9.750	(1.000)	140022	5.00000	5.175	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.059)	70303	5.00000	4.564	(M)
	13 2-Methylphenol	108	9.968	9.960	(1.000)	201667	5.00000	4.885	
	17 Hexachloroethane	117	10.480	10.472	(1.000)	118357	5.00000	4.983	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.309	(1.000)	160354	5.00000	4.904	
	15 4-Methylphenol	108	10.232	10.232	(1.000)	247275	5.00000	4.989	
$	18 Nitrobenzene-d5	82	10.596	10.589	(0.884)	278619	5.00000	5.050	
	19 Nitrobenzene	77	10.627	10.628	(0.886)	263341	5.00000	4.939	
	20 Isophorone	82	11.070	11.062	(0.923)	357517	5.00000	5.632	
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	135168	5.00000	4.781	
	22 2,4-Dimethylphenol	107	11.282	11.283	(0.941)	513724	10.0000	9.867	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.486	(0.959)	197856	5.00000	4.876	
	24 Benzoic acid	105	11.486	11.359	(0.958)	678934	20.0000	18.64	
	25 2,4-Dichlorophenol	162	11.707	11.698	(0.976)	415427	10.0000	10.16	
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	282554	5.00000	4.823	
*	27 Naphthalene-d8	136	11.991	11.983	(1.000)	493698	4.00000		
	28 Naphthalene	128	12.029	12.022	(1.003)	670537	5.00000	4.868	
	29 4-Chloroaniline	127	12.153	12.145	(1.014)	506411	10.0000	9.991	
	30 Hexachlorobutadiene	225	12.385	12.377	(1.033)	155707	5.00000	4.820	
	31 4-Chloro-3-methylphenol	107	13.097	13.089	(1.092)	444489	10.0000	9.972	
	32 2-Methylnaphthalene	142	13.429	13.422	(1.120)	508214	5.00000	4.935	
	33 Hexachlorocyclopentadiene	237	13.894	13.886	(0.890)	347002	10.0000	9.994	
	34 2,4,6-Trichlorophenol	196	14.048	14.041	(0.899)	346788	10.0000	10.14	

		QUANT SIG					AMOUNTS CAL-AMT	ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
35	2,4,5-Trichlorophenol	196	14.118	14.111	(0.904)	376877	10.0000	10.11
$ 36	2-Fluorobiphenyl	172	14.211	14.203	(0.910)	588399	5.00000	4.868
37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	468169	5.00000	4.918
38	2-Nitroaniline	65	14.683	14.676	(0.940)	282277	10.0000	10.21
39	Dimethylphthalate	163	15.109	15.101	(0.967)	539712	5.00000	5.042
40	Acenaphthylene	152	15.310	15.303	(0.980)	749704	5.00000	5.045
41	2,6-Dinitrotoluene	165	15.256	15.248	(0.977)	247080	10.0000	10.23
* 42	Acenaphthene-d10	164	15.619	15.612	(1.000)	279210	4.00000	
43	3-Nitroaniline	138	15.542	15.527	(0.995)	235788	10.0000	9.913
44	Acenaphthene	153	15.689	15.682	(1.004)	462915	5.00000	4.898
45	2,4-Dinitrophenol	184	15.759	15.743	(1.009)	348285	20.0000	18.07
46	Dibenzofuran	168	16.014	16.006	(1.025)	682634	5.00000	4.954
47	4-Nitrophenol	109	15.836	15.828	(1.014)	215878	10.0000	9.646
48	2,4-Dinitrotoluene	165	16.068	16.060	(1.029)	332505	10.0000	9.545
50	Diethylphthalate	149	16.570	16.555	(1.061)	546271	5.00000	4.915
49	Fluorene	166	16.733	16.725	(1.071)	550738	5.00000	4.845
51	4-Chlorophenyl-phenylether	204	16.717	16.702	(1.070)	280352	5.00000	4.952
52	4-Nitroaniline	138	16.825	16.810	(1.077)	225829	10.0000	9.638
53	4,6-Dinitro-2-methylphenol	198	16.910	16.902	(0.905)	397119	20.0000	18.88
54	N-Nitrosodiphenylamine	169	16.964	16.956	(0.908)	339039	5.00000	4.920
$ 55	2,4,6-Tribromophenol	330	17.272	17.265	(1.106)	100361	7.50000	7.203
56	4-Bromophenyl-phenylether	248	17.727	17.712	(0.949)	161429	5.00000	4.962
57	Hexachlorobenzene	284	18.052	18.044	(0.966)	162556	5.00000	4.979
58	Pentachlorophenol	266	18.408	18.393	(0.986)	218051	10.0000	9.371
* 59	Phenanthrene-d10	188	18.679	18.671	(1.000)	521463	4.00000	
60	Phenanthrene	178	18.733	18.718	(1.003)	751088	5.00000	4.909
61	Anthracene	178	18.826	18.811	(1.008)	718254	5.00000	5.080
62	Carbazole	167	19.143	19.136	(1.025)	567437	5.00000	4.534
63	Di-n-butylphthalate	149	19.909	19.901	(1.066)	920604	5.00000	4.807
64	Fluoranthene	202	21.093	21.085	(0.890)	887512	5.00000	5.374
65	Pyrene	202	21.518	21.503	(0.908)	883274	5.00000	5.354
$ 66	Terphenyl-d14	244	21.789	21.774	(0.919)	684868	5.00000	5.249
67	Butylbenzylphthalate	149	22.703	22.687	(0.958)	360782	5.00000	4.887
68	Benzo(a)anthracene	228	23.671	23.655	(0.999)	757979	5.00000	5.176
* 69	Chrysene-d12	240	23.702	23.686	(1.000)	369911	4.00000	
70	3,3'-Dichlorobenzidine	252	23.616	23.601	(0.996)	595388	15.0000	12.74
71	Chrysene	228	23.748	23.733	(1.002)	647803	5.00000	4.942
72	bis(2-Ethylhexyl)phthalate	149	23.717	23.702	(0.958)	480301	5.00000	5.321
* 134	Di-n-octylphthalate-d4	153	24.747	24.724	(1.000)	626668	4.00000	
73	Di-n-octylphthalate	149	24.754	24.739	(1.000)	805274	5.00000	4.871
74	Benzo(b)fluoranthene	252	25.691	25.660	(0.968)	645589	5.00000	5.048
75	Benzo(k)fluoranthene	252	25.738	25.715	(0.969)	649415	5.00000	5.117
76	Benzo(a)pyrene	252	26.419	26.388	(0.995)	546631	5.00000	5.106
* 77	Perylene-d12	264	26.551	26.520	(1.000)	311339	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.545	29.483	(1.113)	650515	5.00000	5.058
79	Dibenzo(a,h)anthracene	278	29.545	29.491	(1.113)	532348	5.00000	4.943
80	Benzo(g,h,i)perylene	276	30.422	30.353	(1.146)	516165	5.00000	5.035
90	N-Nitrosodimethylamine	74	5.075	5.083	(1.000)	225196	10.0000	9.548
91	Aniline	93	8.945	8.938	(1.000)	451845	10.0000	9.740
93	Benzidine	184	21.317	21.310	(0.899)	530664	10.0000	8.635
103	Pyridine	79	5.098	5.144	(1.000)	341735	10.0000	9.189
105	1-methylnaphthalene	142	13.654	13.646	(1.139)	462239	5.00000	4.896
111	Azobenzene (1,2-DP-Hydrazine)	77	17.041	17.034	(1.091)	544713	5.00000	5.016
187	Total Benzofluoranthenes	252	25.691	25.660	(0.968)	1248017	10.0000	10.14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.339	(1.047)	177328	5.00000	4.781

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012304.D
Lab Smp Id: SLE0036-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	144303	0.00
27 Naphthalene-d8	493698	246849	987396	493698	0.00
42 Acenaphthene-d10	279210	139605	558420	279210	0.00
59 Phenanthrene-d10	521463	260732	1042926	521463	0.00
69 Chrysene-d12	369911	184956	739822	369911	0.00
134 Di-n-octylphthala	626668	313334	1253336	626668	0.00
77 Perylene-d12	311339	155670	622678	311339	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	0.00
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
134 Di-n-octylphthala	24.75	24.25	25.25	24.75	0.00
77 Perylene-d12	26.55	26.05	27.05	26.55	0.00

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

REVIEW SUMMARY FOR FILE - NT1005012304.D

Lab ID: SLE0036-CAL5
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 16:10

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.948	0.0100	Benzoic acid

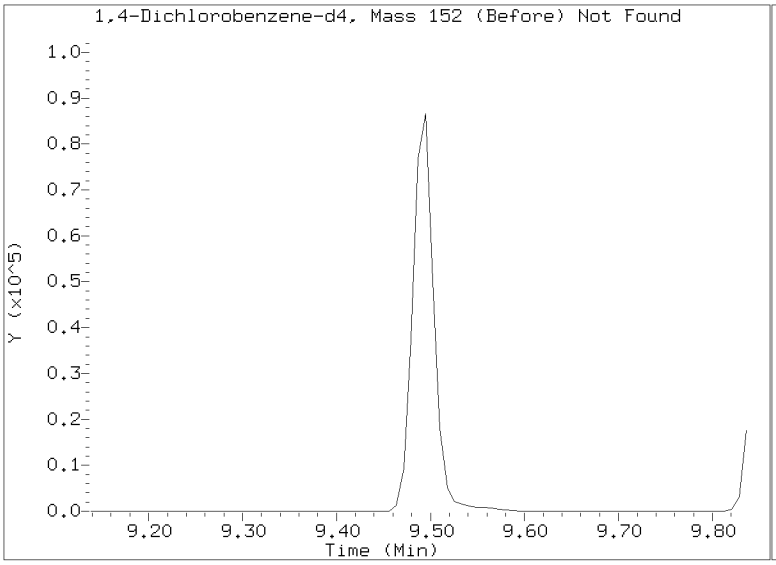
RRT check based on Ccal File: NT1005012308.D

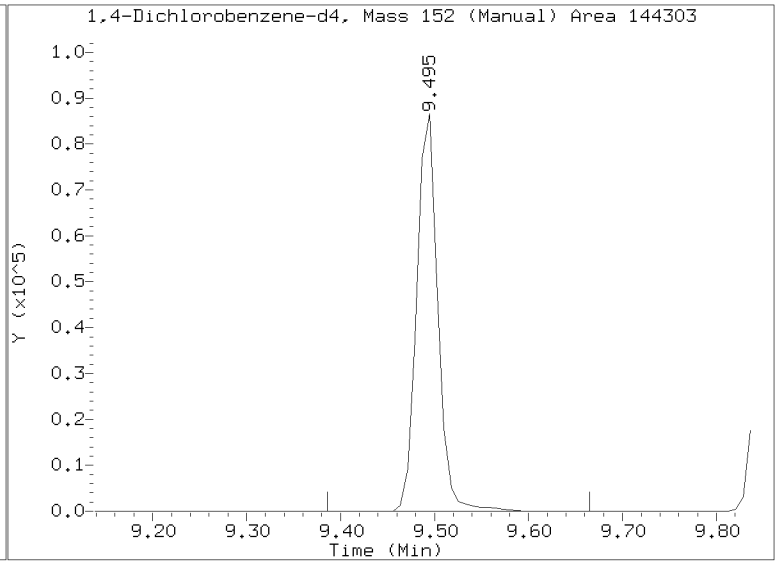
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

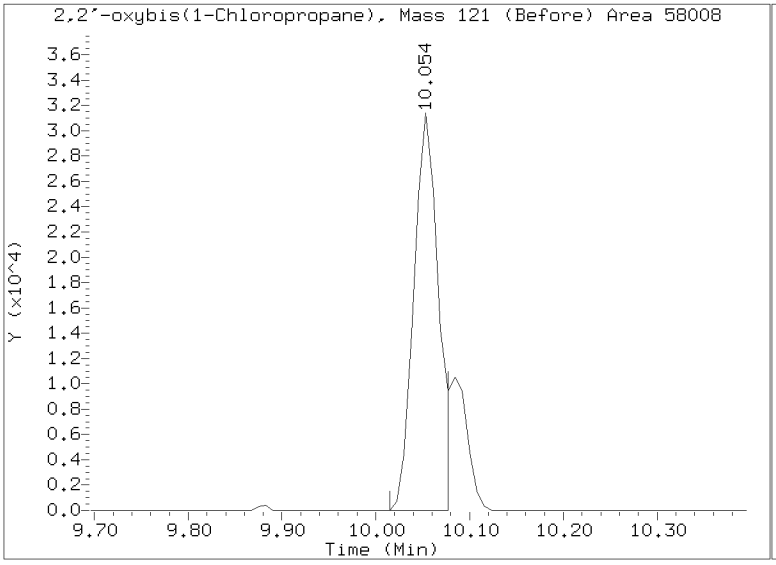
* Only compounds listed in the work order have been verified by the analyst *

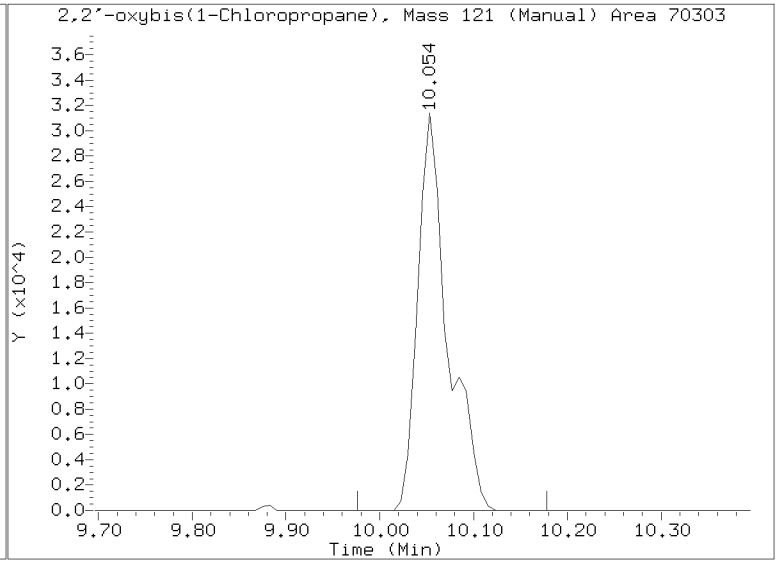
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012304.D
Injection Date: 01-MAY-2023 16:10
Lab ID:SLE0036-CAL5 Client ID:
Report Date: 05/08/2023 09:57







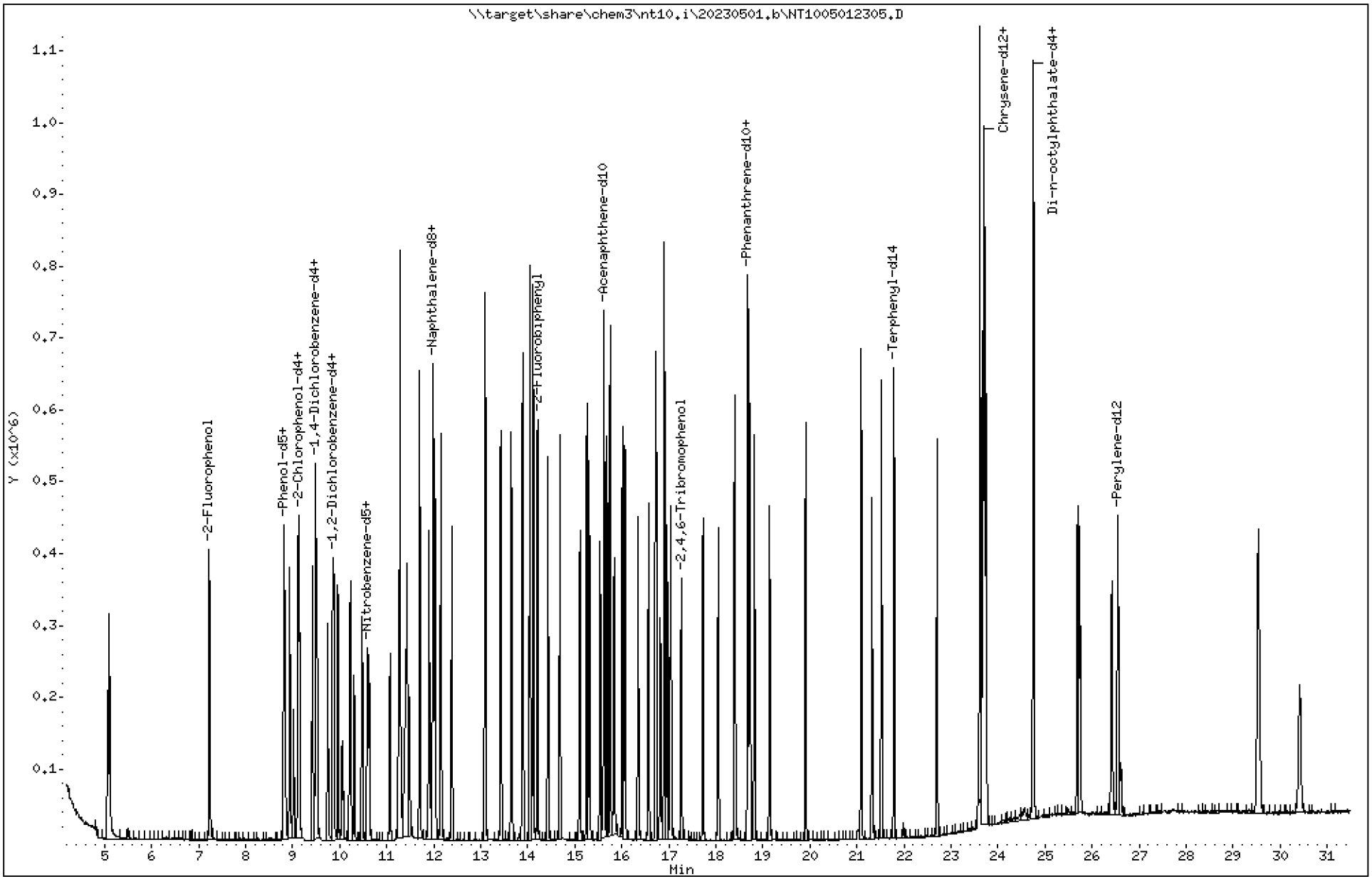


APPROVED

By Deenay Dunmore at 10:01 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012305.D
Date : 01-MAY-2023 16:49
Client ID:
Sample Info: SLE0036-CAL4

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 572 of 4865

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012305.D
Lab Smp Id: SLE0036-CAL4
Inj Date : 01-MAY-2023 16:49
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 16:49 Cal File: NT1005012305.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	7.230	7.230	(1.000)	162677	3.75000	3.861	
$	2 Phenol-d5	99	8.814	8.814	(1.000)	195639	3.75000	3.851	
	3 Phenol	94	8.837	8.837	(1.000)	139469	2.50000	2.568	
$	5 2-Chlorophenol-d4	132	9.123	9.123	(1.000)	185917	3.75000	3.819	
	4 Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	98543	2.50000	2.507	
	6 2-Chlorophenol	128	9.146	9.146	(1.000)	120085	2.50000	2.507	
	7 1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	134376	2.50000	2.490	
*	8 1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	139256	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.526	9.518	(1.000)	128870	2.50000	2.431	
$	10 1,2-Dichlorobenzene-d4	152	9.852	9.851	(1.000)	89831	2.50000	2.501	
	12 1,2-Dichlorobenzene	146	9.883	9.875	(1.000)	127611	2.50000	2.479	
	11 Benzyl alcohol	108	9.751	9.750	(1.000)	66025	2.50000	2.529	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.060)	36099	2.50000	2.428	(M)
	13 2-Methylphenol	108	9.960	9.960	(1.000)	101125	2.50000	2.538	
	17 Hexachloroethane	117	10.480	10.472	(1.000)	57676	2.50000	2.516	
	16 N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	81800	2.50000	2.592	
	15 4-Methylphenol	108	10.232	10.232	(1.000)	116167	2.50000	2.429	
$	18 Nitrobenzene-d5	82	10.589	10.589	(0.883)	138218	2.50000	2.579	
	19 Nitrobenzene	77	10.628	10.628	(0.886)	135658	2.50000	2.619	
	20 Isophorone	82	11.070	11.062	(0.923)	156609	2.50000	2.540	
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	61872	2.50000	2.248	
	22 2,4-Dimethylphenol	107	11.283	11.283	(0.941)	253228	5.00000	5.006	
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.958)	99370	2.50000	2.521	
	24 Benzoic acid	105	11.435	11.359	(0.954)	311612	10.0000	8.861	
	25 2,4-Dichlorophenol	162	11.707	11.698	(0.976)	202599	5.00000	5.099	
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	142270	2.50000	2.500	
*	27 Naphthalene-d8	136	11.991	11.983	(1.000)	479621	4.00000		
	28 Naphthalene	128	12.030	12.022	(1.003)	329969	2.50000	2.466	
	29 4-Chloroaniline	127	12.153	12.145	(1.014)	245258	5.00000	4.981	
	30 Hexachlorobutadiene	225	12.385	12.377	(1.033)	78674	2.50000	2.507	
	31 4-Chloro-3-methylphenol	107	13.097	13.089	(1.092)	210974	5.00000	4.872	
	32 2-Methylnaphthalene	142	13.430	13.422	(1.120)	249702	2.50000	2.496	
	33 Hexachlorocyclopentadiene	237	13.894	13.886	(0.890)	164839	5.00000	4.859	
	34 2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	163950	5.00000	4.906	

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
35	2,4,5-Trichlorophenol	196	14.118	14.111	(0.904)	178612	5.00000	4.901
$ 36	2-Fluorobiphenyl	172	14.211	14.203	(0.910)	289142	2.50000	2.448
37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	230574	2.50000	2.478
38	2-Nitroaniline	65	14.683	14.676	(0.940)	142323	5.00000	5.268
39	Dimethylphthalate	163	15.109	15.101	(0.967)	267401	2.50000	2.556
40	Acenaphthylene	152	15.310	15.303	(0.980)	366044	2.50000	2.521
41	2,6-Dinitrotoluene	165	15.256	15.248	(0.977)	118225	5.00000	5.007
* 42	Acenaphthene-d10	164	15.620	15.612	(1.000)	272839	4.00000	
43	3-Nitroaniline	138	15.543	15.527	(0.995)	113292	5.00000	4.874
44	Acenaphthene	153	15.689	15.682	(1.004)	227987	2.50000	2.469
45	2,4-Dinitrophenol	184	15.751	15.743	(1.008)	143085	10.0000	7.775
46	Dibenzofuran	168	16.014	16.006	(1.025)	339092	2.50000	2.518
47	4-Nitrophenol	109	15.836	15.828	(1.014)	100625	5.00000	4.625
48	2,4-Dinitrotoluene	165	16.068	16.060	(1.029)	161624	5.00000	4.777
50	Diethylphthalate	149	16.571	16.555	(1.061)	271054	2.50000	2.496
49	Fluorene	166	16.733	16.725	(1.071)	273086	2.50000	2.458
51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	136665	2.50000	2.471
52	4-Nitroaniline	138	16.818	16.810	(1.077)	88491	5.00000	3.898
53	4,6-Dinitro-2-methylphenol	198	16.910	16.902	(0.905)	180156	10.0000	8.710
54	N-Nitrosodiphenylamine	169	16.964	16.956	(0.908)	168360	2.50000	2.437
$ 55	2,4,6-Tribromophenol	330	17.273	17.265	(1.106)	45436	3.75000	3.413
56	4-Bromophenyl-phenylether	248	17.728	17.712	(0.949)	79629	2.50000	2.442
57	Hexachlorobenzene	284	18.052	18.044	(0.966)	79737	2.50000	2.436
58	Pentachlorophenol	266	18.401	18.393	(0.985)	95167	5.00000	4.190
* 59	Phenanthrene-d10	188	18.679	18.671	(1.000)	522698	4.00000	
60	Phenanthrene	178	18.726	18.718	(1.002)	370600	2.50000	2.416
61	Anthracene	178	18.818	18.811	(1.007)	348512	2.50000	2.459
62	Carbazole	167	19.143	19.136	(1.025)	301723	2.50000	2.405
63	Di-n-butylphthalate	149	19.909	19.901	(1.066)	437568	2.50000	2.308
64	Fluoranthene	202	21.093	21.085	(0.890)	437912	2.50000	2.593
65	Pyrene	202	21.519	21.503	(0.908)	430327	2.50000	2.550
$ 66	Terphenyl-d14	244	21.789	21.774	(0.919)	335344	2.50000	2.513
67	Butylbenzylphthalate	149	22.703	22.687	(0.958)	169922	2.50000	2.193
68	Benzo(a)anthracene	228	23.671	23.655	(0.999)	374717	2.50000	2.502
* 69	Chrysene-d12	240	23.702	23.686	(1.000)	378327	4.00000	
70	3,3'-Dichlorobenzidine	252	23.617	23.601	(0.996)	326864	7.50000	7.003
71	Chrysene	228	23.748	23.733	(1.002)	334740	2.50000	2.497
72	bis(2-Ethylhexyl)phthalate	149	23.717	23.702	(0.958)	231367	2.50000	2.665
* 134	Di-n-octylphthalate-d4	153	24.747	24.724	(1.000)	602724	4.00000	
73	Di-n-octylphthalate	149	24.755	24.739	(1.000)	391633	2.50000	2.463
74	Benzo(b)fluoranthene	252	25.692	25.660	(0.968)	330014	2.50000	2.443
75	Benzo(k)fluoranthene	252	25.738	25.715	(0.969)	315336	2.50000	2.353
76	Benzo(a)pyrene	252	26.419	26.388	(0.995)	271414	2.50000	2.401
* 77	Perylene-d12	264	26.551	26.520	(1.000)	328795	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.530	29.483	(1.112)	326649	2.50000	2.405
79	Dibenzo(a,h)anthracene	278	29.545	29.491	(1.113)	268349	2.50000	2.359
80	Benzo(g,h,i)perylene	276	30.415	30.353	(1.146)	263487	2.50000	2.434
90	N-Nitrosodimethylamine	74	5.067	5.083	(1.000)	114967	5.00000	5.051
91	Aniline	93	8.938	8.938	(1.000)	225323	5.00000	5.033
93	Benzidine	184	21.317	21.310	(0.899)	272765	5.00000	4.434
103	Pyridine	79	5.098	5.144	(1.000)	183921	5.00000	5.124
105	1-methylnaphthalene	142	13.654	13.646	(1.139)	230884	2.50000	2.517
111	Azobenzene (1,2-DP-Hydrazine)	77	17.041	17.034	(1.091)	272137	2.50000	2.565
187	Total Benzofluoranthenes	252	25.692	25.660	(0.968)	622226	5.00000	4.786

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.339	(1.047)	82028	2.50000	2.304

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012305.D
Lab Smp Id: SLE0036-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	139256	-3.50
27 Naphthalene-d8	493698	246849	987396	479621	-2.85
42 Acenaphthene-d10	279210	139605	558420	272839	-2.28
59 Phenanthrene-d10	521463	260732	1042926	522698	0.24
69 Chrysene-d12	369911	184956	739822	378327	2.28
134 Di-n-octylphthala	626668	313334	1253336	602724	-3.82
77 Perylene-d12	311339	155670	622678	328795	5.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
134 Di-n-octylphthala	24.75	24.25	25.25	24.75	0.00
77 Perylene-d12	26.55	26.05	27.05	26.55	0.00

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

REVIEW SUMMARY FOR FILE - NT1005012305.D

Lab ID: SLE0036-CAL4
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 16:49

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.948	0.0058	Benzoic acid

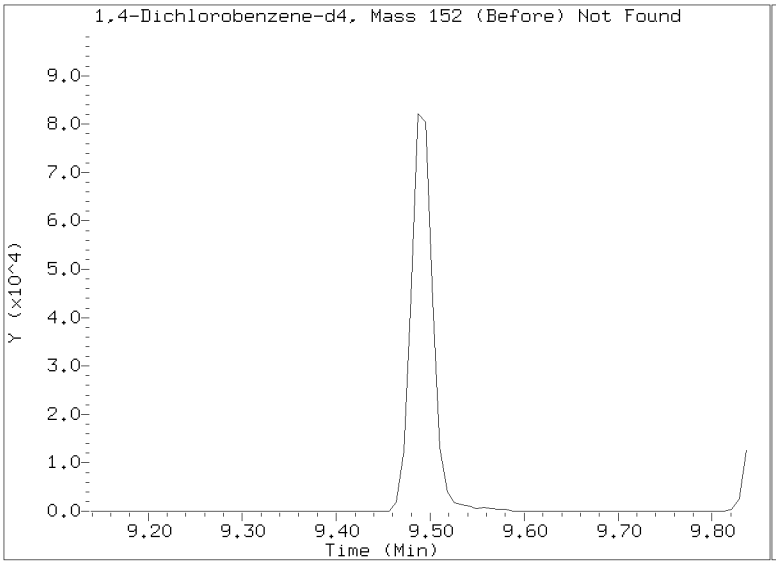
RRT check based on Ccal File: NT1005012308.D

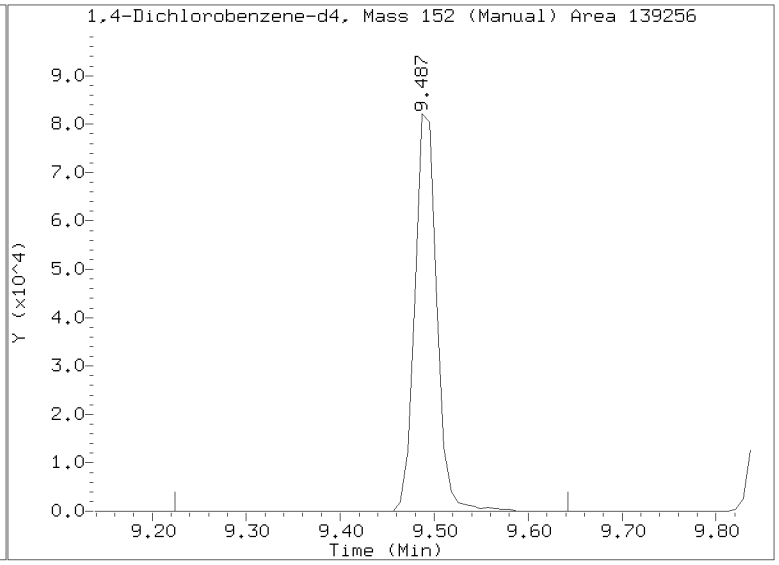
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

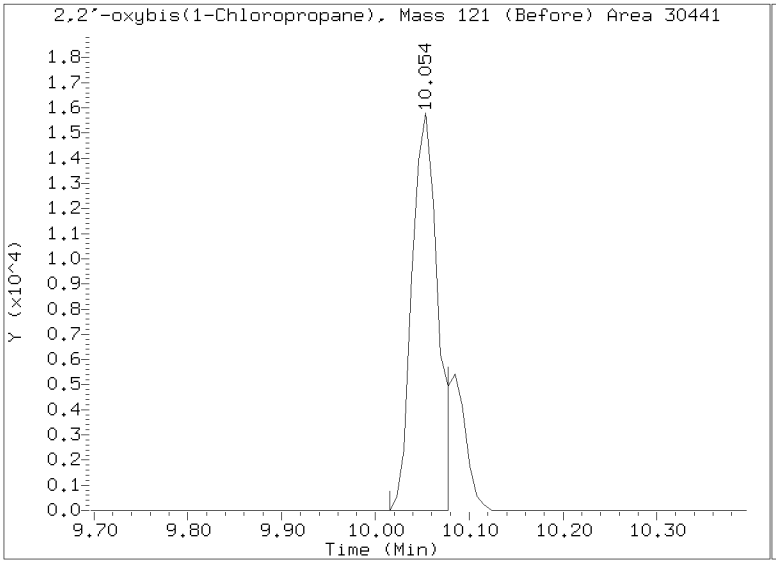
* Only compounds listed in the work order have been verified by the analyst *

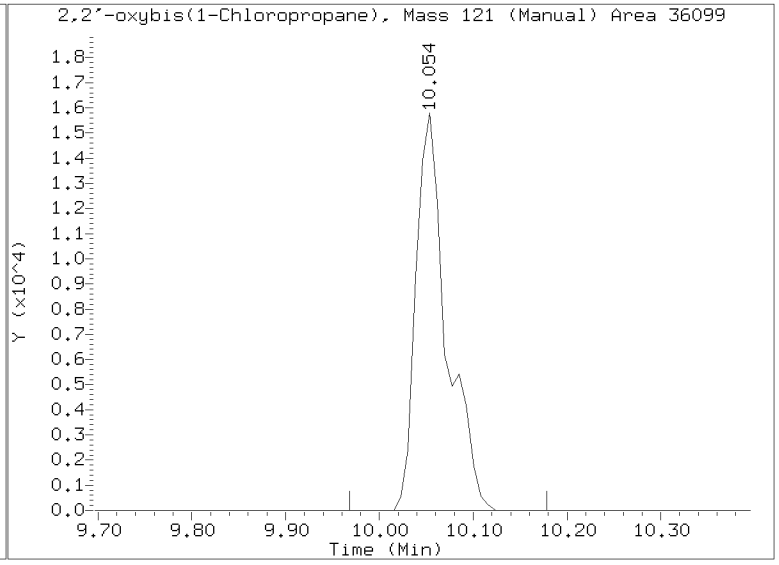
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012305.D
Injection Date: 01-MAY-2023 16:49
Lab ID:SLE0036-CAL4 Client ID:
Report Date: 05/08/2023 09:57









APPROVED

By Deenay Dunmore at 10:02 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012306.D

Page 1

Date : 01-MAY-2023 17:28

Client ID:

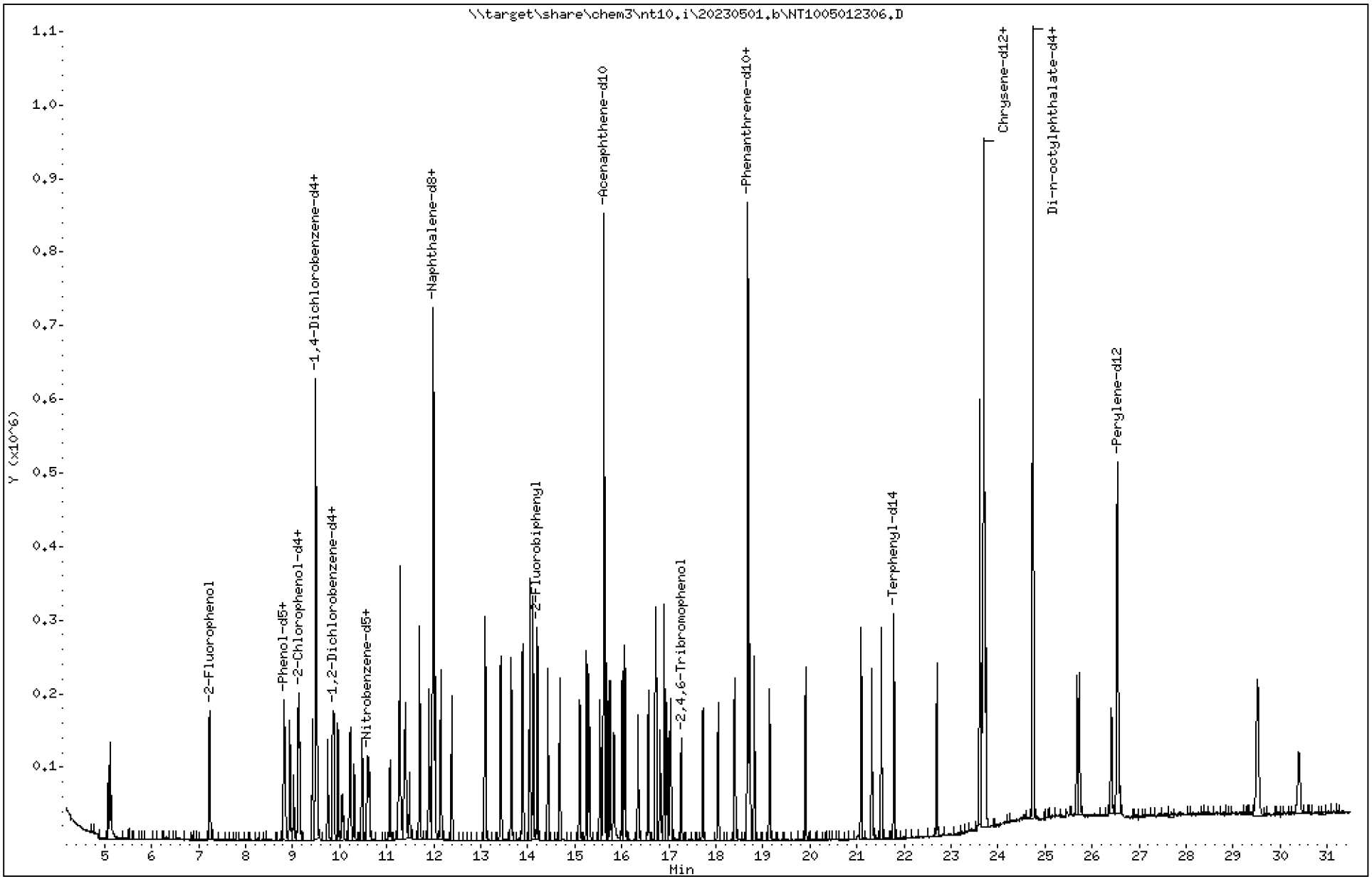
Instrument: nt10.i

Sample Info: SLE0036-CAL3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 579 of 4865

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012306.D
Lab Smp Id: SLE0036-CAL3
Inj Date : 01-MAY-2023 17:28
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 17:28 Cal File: NT1005012306.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	7.238	7.230	(1.000)	71842	1.50000	1.464	
$	2 Phenol-d5	99	8.814	8.814	(1.000)	84947	1.50000	1.436	
	3 Phenol	94	8.837	8.837	(1.000)	61613	1.00000	0.9740	
$	5 2-Chlorophenol-d4	132	9.123	9.123	(1.000)	80540	1.50000	1.421	
	4 Bis(2-Chloroethyl)ether	93	9.022	9.023	(1.000)	46738	1.00000	1.021	
	6 2-Chlorophenol	128	9.146	9.146	(1.000)	54351	1.00000	0.9744	
	7 1,3-Dichlorobenzene	146	9.432	9.425	(1.000)	60657	1.00000	0.9652	
*	8 1,4-Dichlorobenzene-d4	152	9.494	9.487	(1.000)	162166	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.525	9.518	(1.000)	60068	1.00000	0.9730	
$	10 1,2-Dichlorobenzene-d4	152	9.851	9.851	(1.000)	39960	1.00000	0.9554	
	12 1,2-Dichlorobenzene	146	9.882	9.875	(1.000)	57427	1.00000	0.9581	
	11 Benzyl alcohol	108	9.750	9.750	(1.000)	29476	1.00000	0.9694	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.059)	15888	1.00000	0.9178	(M)
	13 2-Methylphenol	108	9.960	9.960	(1.000)	44801	1.00000	0.9656	
	17 Hexachloroethane	117	10.480	10.472	(1.000)	25930	1.00000	0.9714	
	16 N-Nitroso-di-n-propylamine	70	10.309	10.309	(1.000)	36077	1.00000	0.9817	
	15 4-Methylphenol	108	10.232	10.232	(1.000)	53567	1.00000	0.9617	
$	18 Nitrobenzene-d5	82	10.589	10.589	(0.883)	63255	1.00000	1.049	
	19 Nitrobenzene	77	10.628	10.628	(0.886)	60128	1.00000	1.032	
	20 Isophorone	82	11.070	11.062	(0.923)	67891	1.00000	0.9784	
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	26205	1.00000	0.8454	
	22 2,4-Dimethylphenol	107	11.283	11.283	(0.941)	111382	2.00000	1.957	
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.958)	44623	1.00000	1.006	
	24 Benzoic acid	105	11.401	11.359	(0.951)	119940	4.00000	3.042	
	25 2,4-Dichlorophenol	162	11.698	11.698	(0.976)	87924	2.00000	1.966	
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	64572	1.00000	1.008	
*	27 Naphthalene-d8	136	11.991	11.983	(1.000)	539712	4.00000		
	28 Naphthalene	128	12.029	12.022	(1.003)	151373	1.00000	1.005	
	29 4-Chloroaniline	127	12.153	12.145	(1.014)	106578	2.00000	1.923	
	30 Hexachlorobutadiene	225	12.385	12.377	(1.033)	35443	1.00000	1.004	
	31 4-Chloro-3-methylphenol	107	13.097	13.089	(1.092)	92449	2.00000	1.897	
	32 2-Methylnaphthalene	142	13.430	13.422	(1.120)	108743	1.00000	0.9659	
	33 Hexachlorocyclopentadiene	237	13.894	13.886	(0.890)	68104	2.00000	1.791	
	34 2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	68513	2.00000	1.829	

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35 2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	74064	2.00000	1.813
$	36 2-Fluorobiphenyl	172	14.203	14.203	(0.909)	131207	1.00000	0.9912
	37 2-Chloronaphthalene	162	14.428	14.420	(0.924)	104132	1.00000	0.9988
	38 2-Nitroaniline	65	14.683	14.676	(0.940)	57239	2.00000	1.890
	39 Dimethylphthalate	163	15.109	15.101	(0.967)	118489	1.00000	1.011
	40 Acenaphthylene	152	15.303	15.303	(0.980)	162842	1.00000	1.001
	41 2,6-Dinitrotoluene	165	15.248	15.248	(0.976)	49504	2.00000	1.871
*	42 Acenaphthene-d10	164	15.620	15.612	(1.000)	305754	4.00000	
	43 3-Nitroaniline	138	15.535	15.527	(0.995)	48793	2.00000	1.873
	44 Acenaphthene	153	15.689	15.682	(1.004)	101786	1.00000	0.9834
	45 2,4-Dinitrophenol	184	15.751	15.743	(1.008)	49007	4.00000	2.404
	46 Dibenzofuran	168	16.014	16.006	(1.025)	148060	1.00000	0.9811
	47 4-Nitrophenol	109	15.828	15.828	(1.013)	39582	2.00000	1.629
	48 2,4-Dinitrotoluene	165	16.060	16.060	(1.028)	66923	2.00000	1.772
	50 Diethylphthalate	149	16.563	16.555	(1.060)	118707	1.00000	0.9753
	49 Fluorene	166	16.733	16.725	(1.071)	121383	1.00000	0.9750
	51 4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	59478	1.00000	0.9595
	52 4-Nitroaniline	138	16.810	16.810	(1.076)	40151	2.00000	1.583
	53 4,6-Dinitro-2-methylphenol	198	16.902	16.902	(0.905)	68698	4.00000	3.079
	54 N-Nitrosodiphenylamine	169	16.956	16.956	(0.908)	77820	1.00000	1.034
$	55 2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	18231	1.50000	1.237
	56 4-Bromophenyl-phenylether	248	17.727	17.712	(0.949)	34480	1.00000	0.9702
	57 Hexachlorobenzene	284	18.052	18.044	(0.966)	35398	1.00000	0.9924
	58 Pentachlorophenol	266	18.400	18.393	(0.985)	38553	2.00000	1.577
*	59 Phenanthrene-d10	188	18.679	18.671	(1.000)	569677	4.00000	
	60 Phenanthrene	178	18.725	18.718	(1.002)	164366	1.00000	0.9833
	61 Anthracene	178	18.818	18.811	(1.007)	153341	1.00000	0.9927
	62 Carbazole	167	19.143	19.136	(1.025)	142704	1.00000	1.044
	63 Di-n-butylphthalate	149	19.909	19.901	(1.066)	175110	1.00000	0.8532
	64 Fluoranthene	202	21.093	21.085	(0.890)	189997	1.00000	0.9702
	65 Pyrene	202	21.511	21.503	(0.908)	191820	1.00000	0.9805
$	66 Terphenyl-d14	244	21.782	21.774	(0.919)	153372	1.00000	0.9913
	67 Butylbenzylphthalate	149	22.695	22.687	(0.958)	71706	1.00000	0.7867
	68 Benzo(a)anthracene	228	23.663	23.655	(0.999)	174370	1.00000	1.004
*	69 Chrysene-d12	240	23.694	23.686	(1.000)	438621	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.617	23.601	(0.997)	170399	3.00000	3.196
	71 Chrysene	228	23.741	23.733	(1.002)	155625	1.00000	1.001
	72 bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	96321	1.00000	0.9719
*	134 Di-n-octylphthalate-d4	153	24.739	24.724	(1.000)	688022	4.00000	
	73 Di-n-octylphthalate	149	24.747	24.739	(1.000)	183238	1.00000	1.009
	74 Benzo(b)fluoranthene	252	25.676	25.660	(0.968)	155139	1.00000	0.9562
	75 Benzo(k)fluoranthene	252	25.730	25.715	(0.970)	149705	1.00000	0.9298
	76 Benzo(a)pyrene	252	26.411	26.388	(0.995)	128378	1.00000	0.9453
*	77 Perylene-d12	264	26.535	26.520	(1.000)	394959	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.514	29.483	(1.112)	152754	1.00000	0.9363
	79 Dibenzo(a,h)anthracene	278	29.529	29.491	(1.113)	127481	1.00000	0.9330
	80 Benzo(g,h,i)perylene	276	30.399	30.353	(1.146)	124050	1.00000	0.9540
	90 N-Nitrosodimethylamine	74	5.082	5.083	(1.000)	51468	2.00000	1.942
	91 Aniline	93	8.945	8.938	(1.000)	98773	2.00000	1.895
	93 Benzidine	184	21.317	21.310	(0.900)	142247	2.00000	2.018
	103 Pyridine	79	5.121	5.144	(1.000)	83888	2.00000	2.007
	105 1-methylnaphthalene	142	13.654	13.646	(1.139)	101533	1.00000	0.9837
	111 Azobenzene (1,2-DP-Hydrazine)	77	17.033	17.034	(1.091)	118827	1.00000	0.9993
	187 Total Benzofluoranthenes	252	25.730	25.660	(0.970)	294137	2.00000	1.883

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.339	(1.047)	32485	1.00000	0.8224

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012306.D
Lab Smp Id: SLE0036-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	162166	12.38
27 Naphthalene-d8	493698	246849	987396	539712	9.32
42 Acenaphthene-d10	279210	139605	558420	305754	9.51
59 Phenanthrene-d10	521463	260732	1042926	569677	9.25
69 Chrysene-d12	369911	184956	739822	438621	18.57
134 Di-n-octylphthala	626668	313334	1253336	688022	9.79
77 Perylene-d12	311339	155670	622678	394959	26.86

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	0.00
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.74	-0.03
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012306.D

Lab ID: SLE0036-CAL3
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 17:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

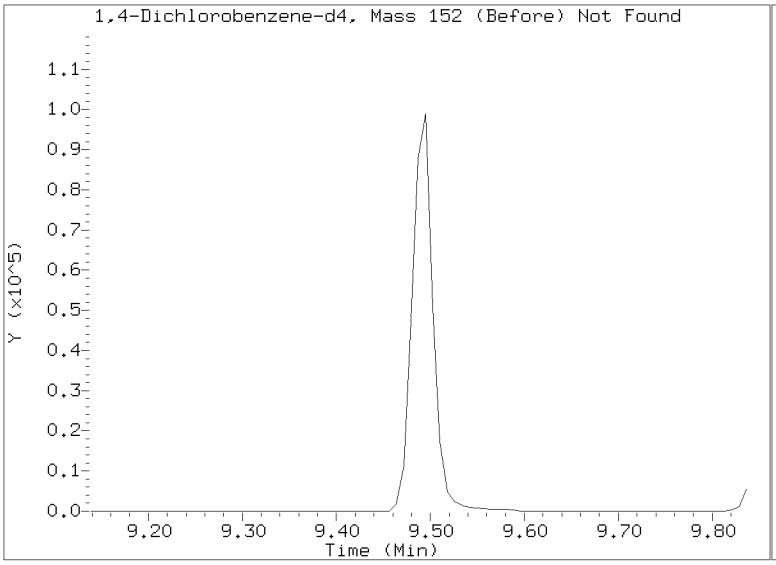
RRT check based on Ccal File: NT1005012308.D

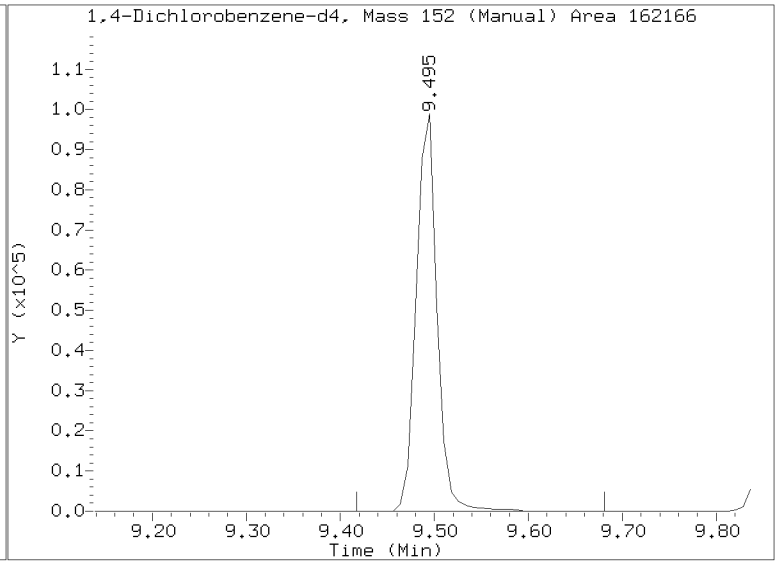
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

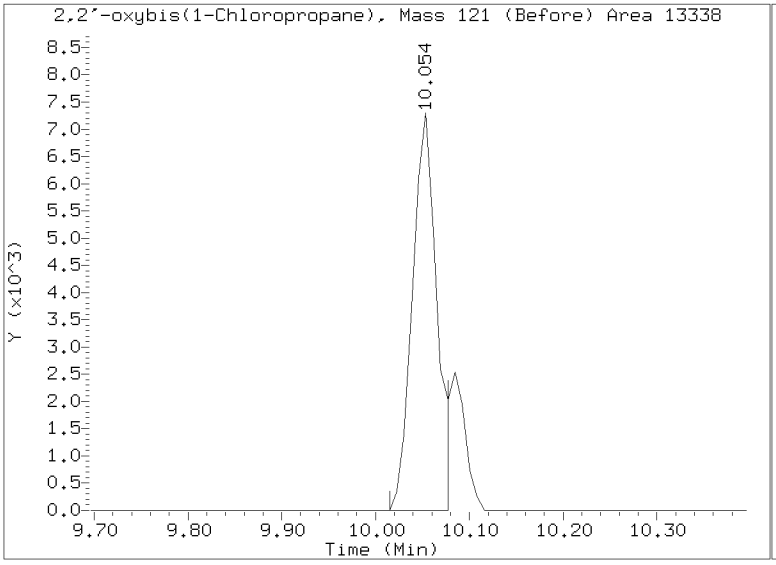
* Only compounds listed in the work order have been verified by the analyst *

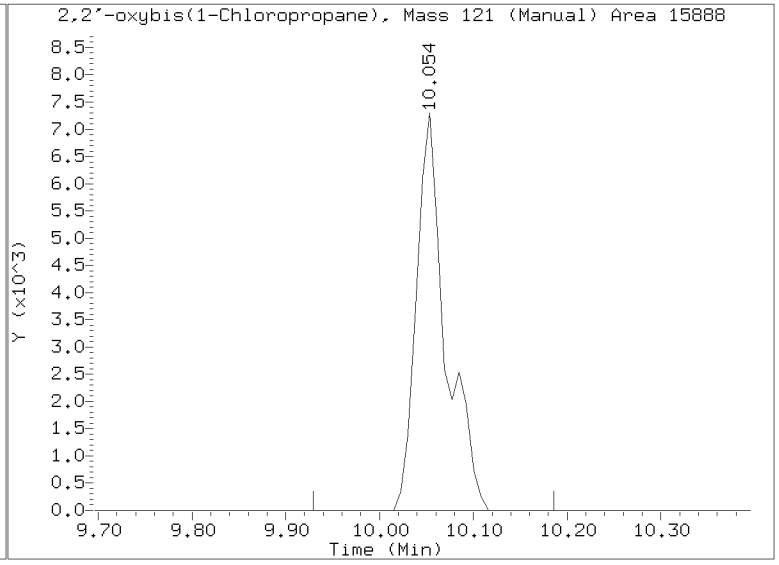
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012306.D
Injection Date: 01-MAY-2023 17:28
Lab ID:SLE0036-CAL3 Client ID:
Report Date: 05/08/2023 09:57







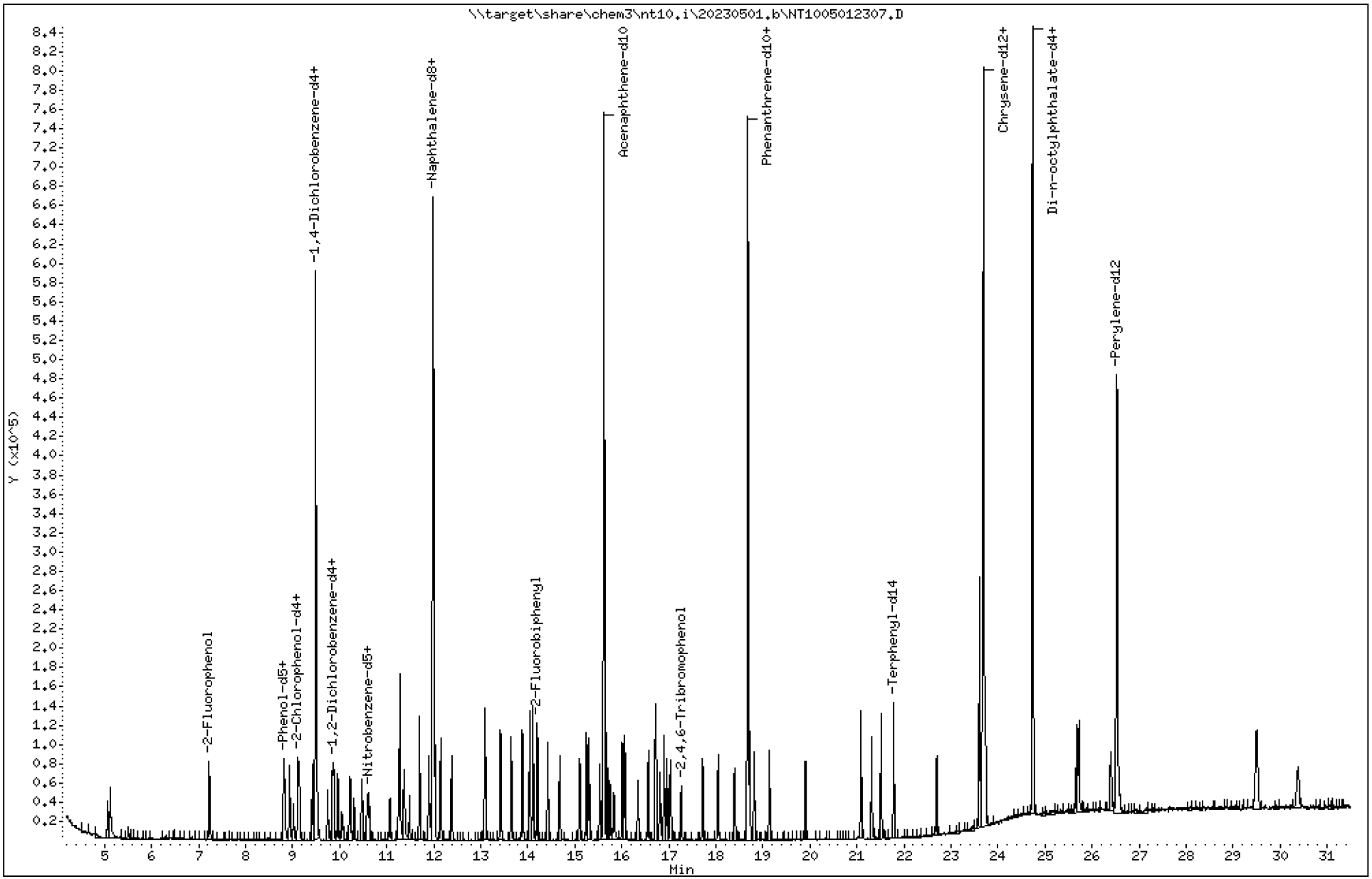


APPROVED

By Deenay Dunmore at 10:02 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012307.D
Date : 01-MAY-2023 18:07
Client ID:
Sample Info: SLE0036-CAL2

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 586 of 4865

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012307.D
Lab Smp Id: SLE0036-CAL2
Inj Date : 01-MAY-2023 18:07
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:07 Cal File: NT1005012307.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	7.230	7.230	(1.000)	31869	0.75000	0.7158
$	2	Phenol-d5	99	8.814	8.814	(1.000)	37269	0.75000	0.6943
	3	Phenol	94	8.837	8.837	(1.000)	28106	0.50000	0.4897
$	5	2-Chlorophenol-d4	132	9.115	9.123	(1.000)	35978	0.75000	0.6994
	4	Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	21041	0.50000	0.5067
	6	2-Chlorophenol	128	9.146	9.146	(1.000)	24491	0.50000	0.4840
	7	1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	28052	0.50000	0.4920
*	8	1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	147126	4.00000	(M)
	9	1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	27759	0.50000	0.4956
$	10	1,2-Dichlorobenzene-d4	152	9.852	9.851	(1.000)	18634	0.50000	0.4910
	12	1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	26237	0.50000	0.4825
	11	Benzyl alcohol	108	9.751	9.750	(1.000)	11859	0.50000	0.4299
	14	2,2'-oxybis(1-Chloropropane)	121	10.046	10.046	(1.059)	8035	0.50000	0.5116(M)
	13	2-Methylphenol	108	9.960	9.960	(1.000)	20655	0.50000	0.4907
	17	Hexachloroethane	117	10.473	10.472	(1.000)	11370	0.50000	0.4695
	16	N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	16367	0.50000	0.4909
	15	4-Methylphenol	108	10.224	10.232	(1.000)	24629	0.50000	0.4874
$	18	Nitrobenzene-d5	82	10.589	10.589	(0.884)	27070	0.50000	0.4887
	19	Nitrobenzene	77	10.628	10.628	(0.887)	27278	0.50000	0.5096
	20	Isophorone	82	11.070	11.062	(0.924)	29072	0.50000	0.4562
	21	2-Nitrophenol	139	11.257	11.249	(0.939)	10446	0.50000	0.3668
	22	2,4-Dimethylphenol	107	11.283	11.283	(0.942)	52044	1.00000	0.9957
	23	Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.959)	21293	0.50000	0.5227
	24	Benzoic acid	105	11.376	11.359	(0.949)	39492	2.00000	1.092
	25	2,4-Dichlorophenol	162	11.699	11.698	(0.976)	37852	1.00000	0.9218
	26	1,2,4-Trichlorobenzene	180	11.898	11.898	(0.993)	29919	0.50000	0.5087
*	27	Naphthalene-d8	136	11.983	11.983	(1.000)	495631	4.00000	
	28	Naphthalene	128	12.030	12.022	(1.004)	69069	0.50000	0.4995
	29	4-Chloroaniline	127	12.145	12.145	(1.014)	46875	1.00000	0.9212
	30	Hexachlorobutadiene	225	12.385	12.377	(1.034)	16382	0.50000	0.5051
	31	4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	39345	1.00000	0.8792
	32	2-Methylnaphthalene	142	13.430	13.422	(1.121)	50669	0.50000	0.4901
	33	Hexachlorocyclopentadiene	237	13.894	13.886	(0.890)	28652	1.00000	0.8281
	34	2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	27214	1.00000	0.7984

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	30334	1.00000	0.8161
$	36	2-Fluorobiphenyl	172	14.204	14.203	(0.909)	58979	0.50000	0.4896
	37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	47496	0.50000	0.5006
	38	2-Nitroaniline	65	14.683	14.676	(0.940)	23498	1.00000	0.8528
	39	Dimethylphthalate	163	15.101	15.101	(0.967)	52444	0.50000	0.4916
	40	Acenaphthylene	152	15.303	15.303	(0.980)	72177	0.50000	0.4874
	41	2,6-Dinitrotoluene	165	15.248	15.248	(0.976)	20511	1.00000	0.8518
*	42	Acenaphthene-d10	164	15.620	15.612	(1.000)	278249	4.00000	
	43	3-Nitroaniline	138	15.535	15.527	(0.995)	20206	1.00000	0.8524
	44	Acenaphthene	153	15.682	15.682	(1.004)	46335	0.50000	0.4919
	45	2,4-Dinitrophenol	184	15.744	15.743	(1.008)	14366	2.00000	0.7770
	46	Dibenzofuran	168	16.014	16.006	(1.025)	66016	0.50000	0.4807
	47	4-Nitrophenol	109	15.829	15.828	(1.013)	14696	1.00000	0.6651
	48	2,4-Dinitrotoluene	165	16.060	16.060	(1.028)	26851	1.00000	0.7822
	50	Diethylphthalate	149	16.563	16.555	(1.060)	51944	0.50000	0.4689
	49	Fluorene	166	16.725	16.725	(1.071)	54635	0.50000	0.4823
	51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	26494	0.50000	0.4696
	52	4-Nitroaniline	138	16.810	16.810	(1.076)	18011	1.00000	0.7814
	53	4,6-Dinitro-2-methylphenol	198	16.903	16.902	(0.905)	24240	2.00000	1.222
	54	N-Nitrosodiphenylamine	169	16.957	16.956	(0.908)	33209	0.50000	0.4945
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	7502	0.75000	0.5614
	56	4-Bromophenyl-phenylether	248	17.720	17.712	(0.949)	15181	0.50000	0.4789
	57	Hexachlorobenzene	284	18.044	18.044	(0.966)	15445	0.50000	0.4854
	58	Pentachlorophenol	266	18.401	18.393	(0.985)	13163	1.00000	0.6064
*	59	Phenanthrene-d10	188	18.679	18.671	(1.000)	508190	4.00000	
	60	Phenanthrene	178	18.726	18.718	(1.002)	73628	0.50000	0.4938
	61	Anthracene	178	18.818	18.811	(1.007)	64933	0.50000	0.4712
	62	Carbazole	167	19.136	19.136	(1.024)	62098	0.50000	0.5091
	63	Di-n-butylphthalate	149	19.909	19.901	(1.066)	71030	0.50000	0.3888
	64	Fluoranthene	202	21.085	21.085	(0.890)	80955	0.50000	0.4602
	65	Pyrene	202	21.511	21.503	(0.908)	82584	0.50000	0.4699
$	66	Terphenyl-d14	244	21.782	21.774	(0.919)	67463	0.50000	0.4854
	67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	27273	0.50000	0.3315
	68	Benzo(a)anthracene	228	23.655	23.655	(0.998)	76803	0.50000	0.4924
*	69	Chrysene-d12	240	23.694	23.686	(1.000)	394033	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.609	23.601	(0.996)	74000	1.50000	1.555
	71	Chrysene	228	23.733	23.733	(1.002)	74447	0.50000	0.5332
	72	bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	40715	0.50000	0.4681
*	134	Di-n-octylphthalate-d4	153	24.732	24.724	(1.000)	603762	4.00000	
	73	Di-n-octylphthalate	149	24.747	24.739	(1.001)	81548	0.50000	0.5120
	74	Benzo(b)fluoranthene	252	25.668	25.660	(0.968)	65502	0.50000	0.4360
	75	Benzo(k)fluoranthene	252	25.722	25.715	(0.970)	73554	0.50000	0.4934
	76	Benzo(a)pyrene	252	26.396	26.388	(0.995)	56788	0.50000	0.4516
*	77	Perylene-d12	264	26.528	26.520	(1.000)	365729	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.491	29.483	(1.112)	69913	0.50000	0.4628
	79	Dibenzo(a,h)anthracene	278	29.506	29.491	(1.112)	56767	0.50000	0.4487
	80	Benzo(g,h,i)perylene	276	30.376	30.353	(1.145)	56700	0.50000	0.4709
	90	N-Nitrosodimethylamine	74	5.075	5.083	(1.000)	23323	1.00000	0.9699
	91	Aniline	93	8.938	8.938	(1.000)	45627	1.00000	0.9646
	93	Benzidine	184	21.310	21.310	(0.899)	61320	1.00000	0.9732
	103	Pyridine	79	5.121	5.144	(1.000)	36871	1.00000	0.9724
	105	1-methylnaphthalene	142	13.654	13.646	(1.139)	45857	0.50000	0.4838
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	52979	0.50000	0.4896
	187	Total Benzofluoranthenes	252	25.668	25.660	(0.968)	134215	1.00000	0.9281

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.339	(1.047)	12669	0.50000	0.3535

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012307.D
Lab Smp Id: SLE0036-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	147126	1.96
27 Naphthalene-d8	493698	246849	987396	495631	0.39
42 Acenaphthene-d10	279210	139605	558420	278249	-0.34
59 Phenanthrene-d10	521463	260732	1042926	508190	-2.55
69 Chrysene-d12	369911	184956	739822	394033	6.52
134 Di-n-octylphthala	626668	313334	1253336	603762	-3.66
77 Perylene-d12	311339	155670	622678	365729	17.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.98	-0.06
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.73	-0.06
77 Perylene-d12	26.55	26.05	27.05	26.53	-0.09

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

REVIEW SUMMARY FOR FILE - NT1005012307.D

Lab ID: SLE0036-CAL2
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 18:07

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

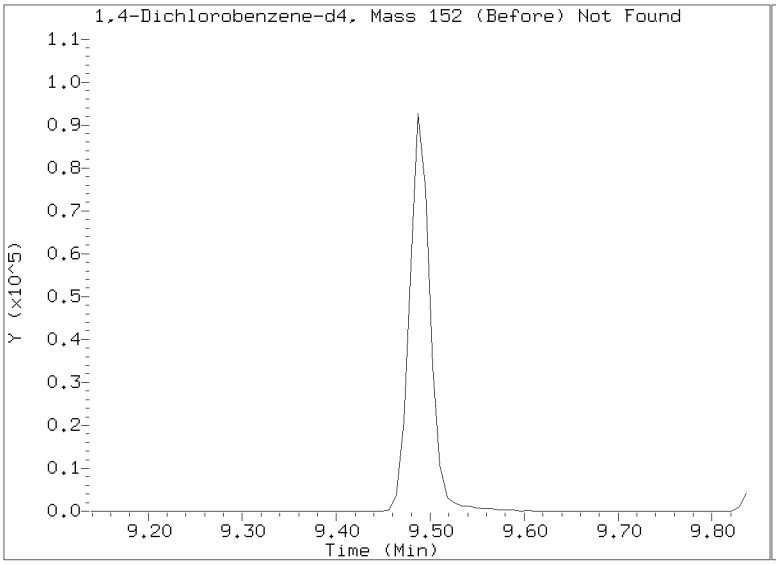
RRT check based on Ccal File: NT1005012308.D

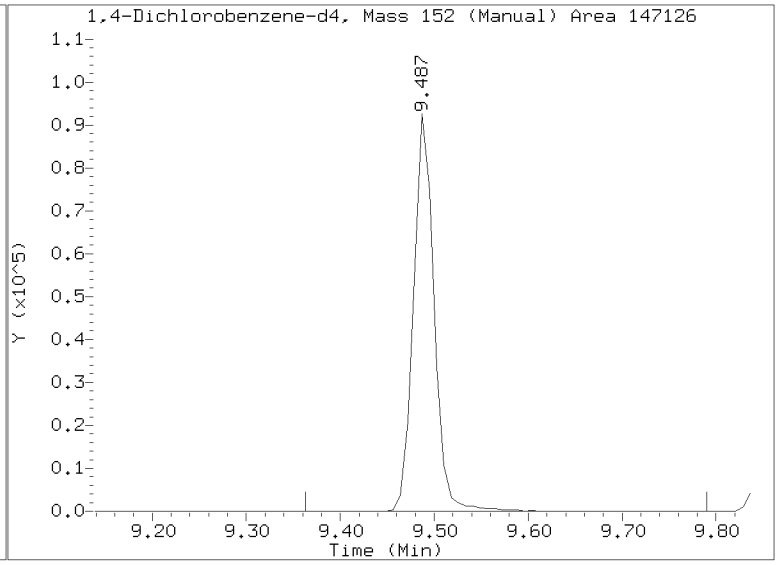
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

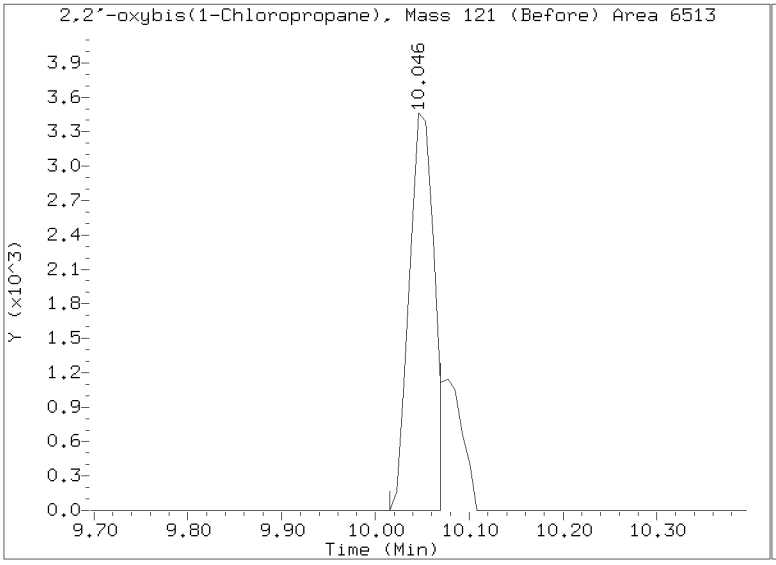
* Only compounds listed in the work order have been verified by the analyst *

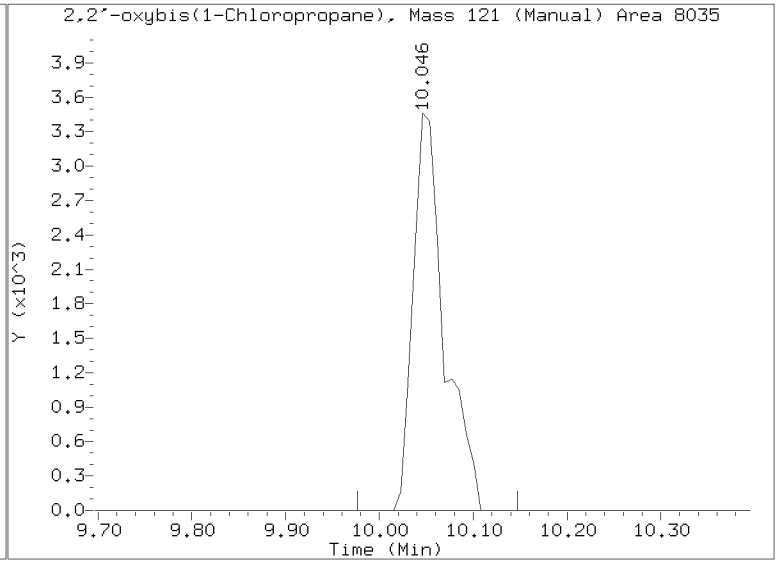
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012307.D
Injection Date: 01-MAY-2023 18:07
Lab ID:SLE0036-CAL2 Client ID:
Report Date: 05/08/2023 09:57









APPROVED

By Deenay Dunmore at 10:01 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012308.D

Page 1

Date : 01-MAY-2023 18:46

Client ID:

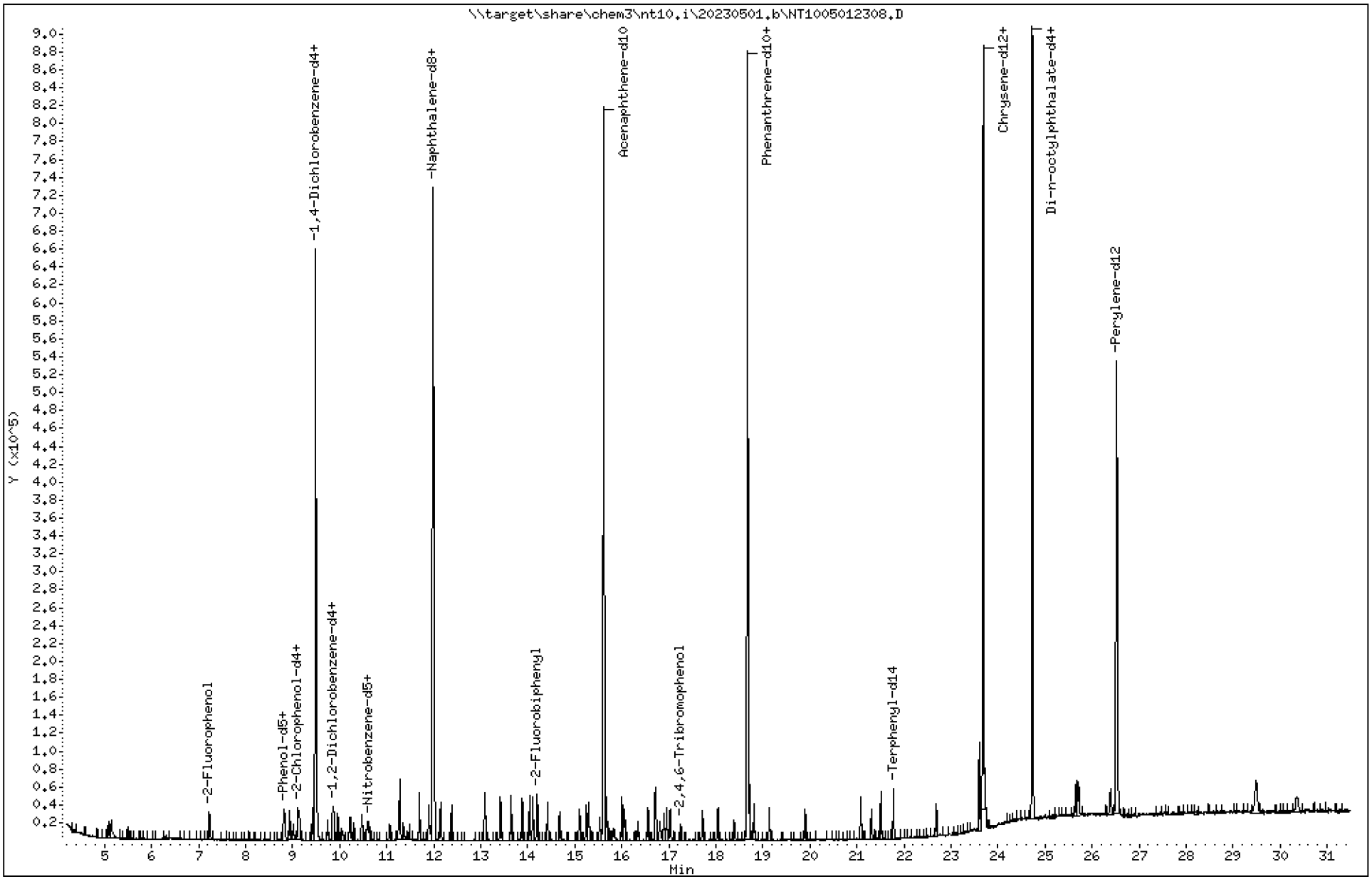
Instrument: nt10.i

Sample Info: SLE0036-CAL1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 593 of 4865

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012308.D
Lab Smp Id: SLE0036-CAL1
Inj Date : 01-MAY-2023 18:46
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1	2-Fluorophenol	112	7.230	7.230	(1.000)	13581	0.30000	0.2817
$	2	Phenol-d5	99	8.814	8.814	(1.000)	15696	0.30000	0.2700
	3	Phenol	94	8.837	8.837	(1.000)	12325	0.20000	0.1983
$	5	2-Chlorophenol-d4	132	9.123	9.123	(1.000)	15782	0.30000	0.2833
	4	Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	9621	0.20000	0.2139
	6	2-Chlorophenol	128	9.146	9.146	(1.000)	10714	0.20000	0.1955
	7	1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	12746	0.20000	0.2064
*	8	1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	159331	4.00000	(M)
	9	1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	12605	0.20000	0.2078
$	10	1,2-Dichlorobenzene-d4	152	9.851	9.851	(1.000)	8185	0.20000	0.1992
	12	1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	12152	0.20000	0.2064
	11	Benzyl alcohol	108	9.750	9.750	(1.000)	5168	0.20000	0.1730
	14	2,2'-oxybis(1-Chloropropane)	121	10.046	10.046	(1.059)	3855	0.20000	0.2267(M)
	13	2-Methylphenol	108	9.960	9.960	(1.000)	8548	0.20000	0.1875
	17	Hexachloroethane	117	10.472	10.472	(1.000)	4991	0.20000	0.1903
	16	N-Nitroso-di-n-propylamine	70	10.309	10.309	(1.000)	6774	0.20000	0.1876
	15	4-Methylphenol	108	10.232	10.232	(1.000)	10722	0.20000	0.1959
$	18	Nitrobenzene-d5	82	10.589	10.589	(0.884)	11401	0.20000	0.1820
	19	Nitrobenzene	77	10.628	10.628	(0.887)	11641	0.20000	0.1923
	20	Isophorone	82	11.062	11.062	(0.923)	11937	0.20000	0.1656
	21	2-Nitrophenol	139	11.249	11.249	(0.939)	3761	0.20000	0.1168
	22	2,4-Dimethylphenol	107	11.283	11.283	(0.942)	21223	0.40000	0.3590
	23	Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.959)	8962	0.20000	0.1945
	24	Benzoic acid	105	11.359	11.359	(0.948)	8995	0.80000	0.2200
	25	2,4-Dichlorophenol	162	11.698	11.698	(0.976)	15570	0.40000	0.3353
	26	1,2,4-Trichlorobenzene	180	11.898	11.898	(0.993)	13302	0.20000	0.2000
*	27	Naphthalene-d8	136	11.983	11.983	(1.000)	560494	4.00000	
	28	Naphthalene	128	12.022	12.022	(1.003)	31581	0.20000	0.2020
	29	4-Chloroaniline	127	12.145	12.145	(1.014)	19742	0.40000	0.3431
	30	Hexachlorobutadiene	225	12.377	12.377	(1.033)	7321	0.20000	0.1996
	31	4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	16148	0.40000	0.3191
	32	2-Methylnaphthalene	142	13.422	13.422	(1.120)	22143	0.20000	0.1894
	33	Hexachlorocyclopentadiene	237	13.886	13.886	(0.889)	11979	0.40000	0.3185
	34	2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	10615	0.40000	0.2865

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.904)	10875	0.40000	0.2691
$	36	2-Fluorobiphenyl	172	14.203	14.203	(0.910)	26418	0.20000	0.2017
	37	2-Chloronaphthalene	162	14.420	14.420	(0.924)	19684	0.20000	0.1908
	38	2-Nitroaniline	65	14.676	14.676	(0.940)	9065	0.40000	0.3026
	39	Dimethylphthalate	163	15.101	15.101	(0.967)	22169	0.20000	0.1911
	40	Acenaphthylene	152	15.303	15.303	(0.980)	30303	0.20000	0.1882
	41	2,6-Dinitrotoluene	165	15.248	15.248	(0.977)	8063	0.40000	0.3080
*	42	Acenaphthene-d10	164	15.612	15.612	(1.000)	302504	4.00000	
	43	3-Nitroaniline	138	15.527	15.527	(0.995)	7452	0.40000	0.2892
	44	Acenaphthene	153	15.682	15.682	(1.004)	19852	0.20000	0.1939
	45	2,4-Dinitrophenol	184	15.743	15.743	(1.008)	3555	0.80000	0.1771
	46	Dibenzofuran	168	16.006	16.006	(1.025)	28420	0.20000	0.1904
	47	4-Nitrophenol	109	15.828	15.828	(1.014)	4388	0.40000	0.1828
	48	2,4-Dinitrotoluene	165	16.060	16.060	(1.029)	9342	0.40000	0.2505
	50	Diethylphthalate	149	16.555	16.555	(1.060)	21353	0.20000	0.1773
	49	Fluorene	166	16.725	16.725	(1.071)	23941	0.20000	0.1944
	51	4-Chlorophenyl-phenylether	204	16.702	16.702	(1.070)	11872	0.20000	0.1936
	52	4-Nitroaniline	138	16.810	16.810	(1.077)	6663	0.40000	0.2661
	53	4,6-Dinitro-2-methylphenol	198	16.902	16.902	(0.905)	7131	0.80000	0.3263
	54	N-Nitrosodiphenylamine	169	16.956	16.956	(0.908)	14204	0.20000	0.1917
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.106)	2793	0.30000	0.1926
	56	4-Bromophenyl-phenylether	248	17.712	17.712	(0.949)	6454	0.20000	0.1845
	57	Hexachlorobenzene	284	18.044	18.044	(0.966)	7067	0.20000	0.2013
	58	Pentachlorophenol	266	18.393	18.393	(0.985)	4575	0.40000	0.1914
*	59	Phenanthrene-d10	188	18.671	18.671	(1.000)	560701	4.00000	
	60	Phenanthrene	178	18.718	18.718	(1.002)	32140	0.20000	0.1954
	61	Anthracene	178	18.811	18.811	(1.007)	26685	0.20000	0.1755
	62	Carbazole	167	19.136	19.136	(1.025)	24403	0.20000	0.1813
	63	Di-n-butylphthalate	149	19.901	19.901	(1.066)	27766	0.20000	0.1379
	64	Fluoranthene	202	21.085	21.085	(0.890)	33382	0.20000	0.1699
	65	Pyrene	202	21.503	21.503	(0.908)	35446	0.20000	0.1806
$	66	Terphenyl-d14	244	21.774	21.774	(0.919)	29035	0.20000	0.1871
	67	Butylbenzylphthalate	149	22.687	22.687	(0.958)	10403	0.20000	0.1130
	68	Benzo(a)anthracene	228	23.655	23.655	(0.999)	34687	0.20000	0.1991
*	69	Chrysene-d12	240	23.686	23.686	(1.000)	440035	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.601	23.601	(0.996)	29961	0.60000	0.5657
	71	Chrysene	228	23.733	23.733	(1.002)	32181	0.20000	0.2064
	72	bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.959)	15225	0.20000	0.1616
*	134	Di-n-octylphthalate-d4	153	24.724	24.724	(1.000)	654162	4.00000	
	73	Di-n-octylphthalate	149	24.739	24.739	(1.001)	36331	0.20000	0.2105
	74	Benzo(b)fluoranthene	252	25.660	25.660	(0.968)	27924	0.20000	0.1706
	75	Benzo(k)fluoranthene	252	25.715	25.715	(0.970)	30019	0.20000	0.1848
	76	Benzo(a)pyrene	252	26.388	26.388	(0.995)	24340	0.20000	0.1777
*	77	Perylene-d12	264	26.520	26.520	(1.000)	398434	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.483	29.483	(1.112)	29441	0.20000	0.1789
	79	Dibenzo(a,h)anthracene	278	29.491	29.491	(1.112)	26228	0.20000	0.1903(M)
	80	Benzo(g,h,i)perylene	276	30.353	30.353	(1.145)	25288	0.20000	0.1928
	90	N-Nitrosodimethylamine	74	5.083	5.083	(1.000)	10241	0.40000	0.3933
	91	Aniline	93	8.938	8.938	(1.000)	20140	0.40000	0.3932
	93	Benzidine	184	21.310	21.310	(0.900)	23798	0.40000	0.3392
	103	Pyridine	79	5.144	5.144	(1.000)	15400	0.40000	0.3750
	105	1-methylnaphthalene	142	13.646	13.646	(1.139)	20569	0.20000	0.1919
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	22702	0.20000	0.1930
	187	Total Benzofluoranthenes	252	25.660	25.660	(0.968)	57093	0.40000	0.3624

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.339	(1.047)	4346	0.20000	0.1117

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012308.D
Lab Smp Id: SLE0036-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	159331	10.41
27 Naphthalene-d8	493698	246849	987396	560494	13.53
42 Acenaphthene-d10	279210	139605	558420	302504	8.34
59 Phenanthrene-d10	521463	260732	1042926	560701	7.52
69 Chrysene-d12	369911	184956	739822	440035	18.96
134 Di-n-octylphthala	626668	313334	1253336	654162	4.39
77 Perylene-d12	311339	155670	622678	398434	27.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.98	-0.06
42 Acenaphthene-d10	15.62	15.12	16.12	15.61	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.06
134 Di-n-octylphthala	24.75	24.25	25.25	24.72	-0.09
77 Perylene-d12	26.55	26.05	27.05	26.52	-0.12

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

REVIEW SUMMARY FOR FILE - NT1005012308.D

Lab ID: SLE0036-CAL1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 18:46

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

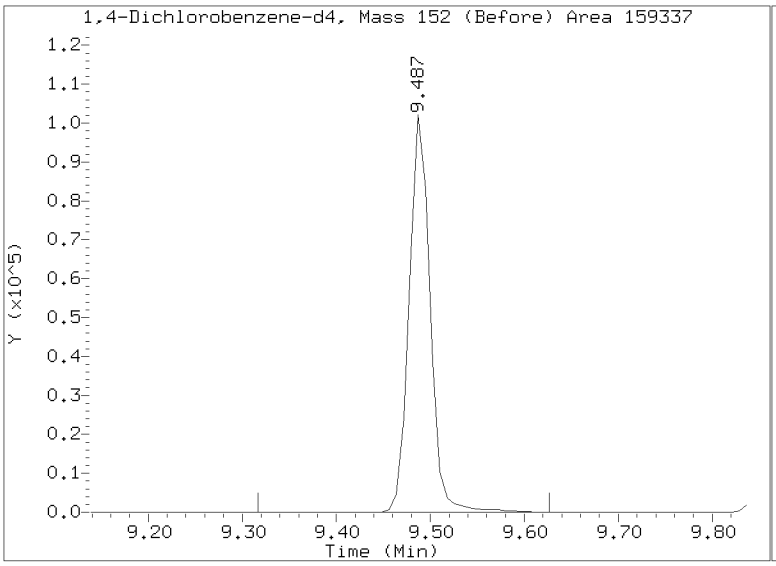
RRT check based on Ccal File: NT1005012308.D

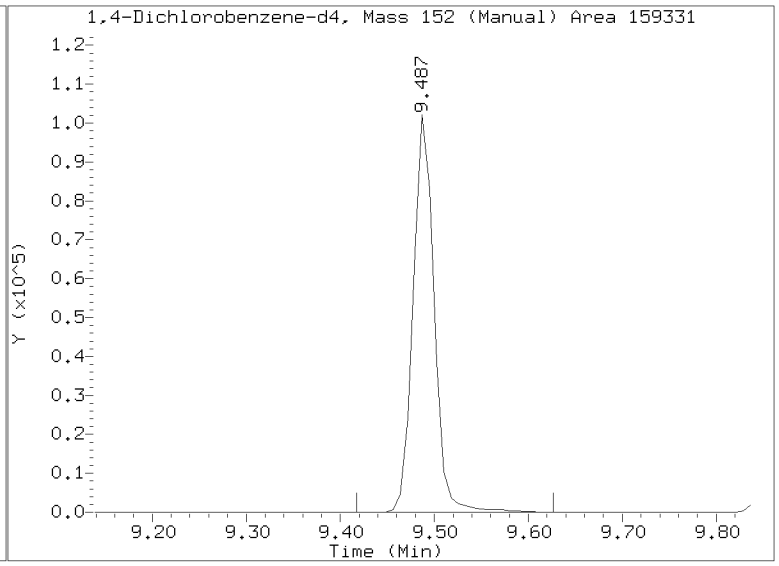
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

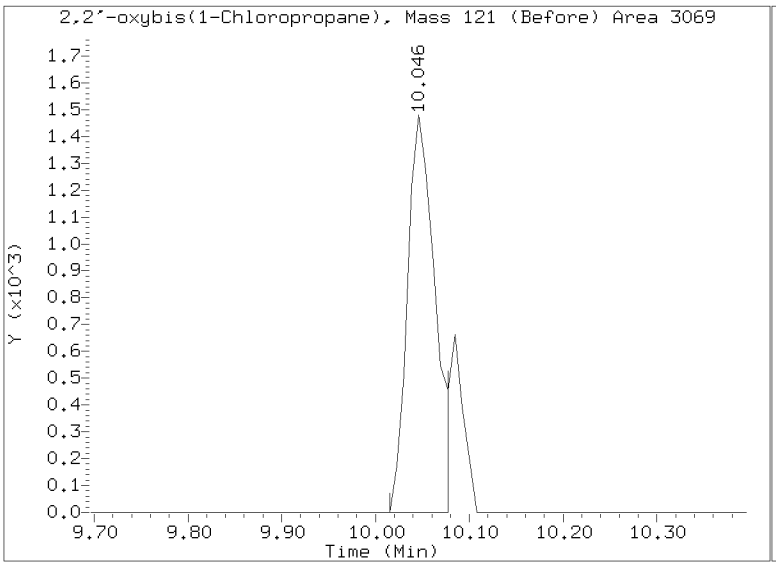
* Only compounds listed in the work order have been verified by the analyst *

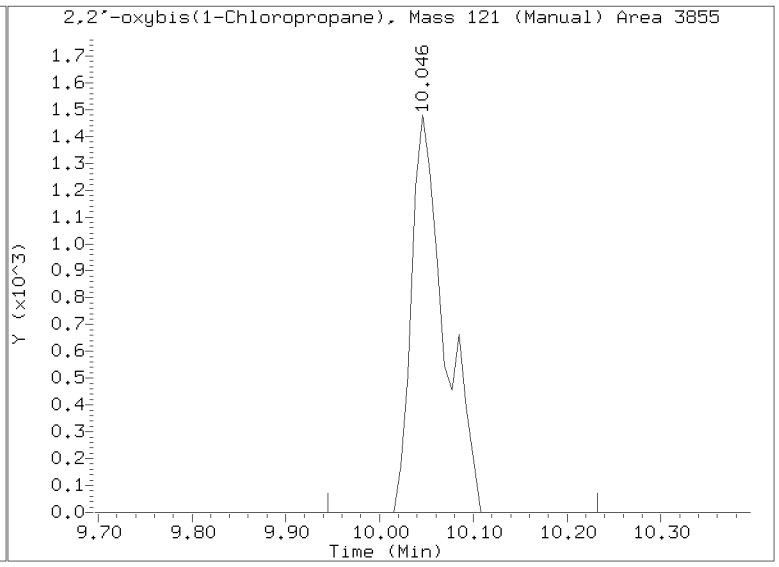
Quant Ion Manual Peak Adjustment Report

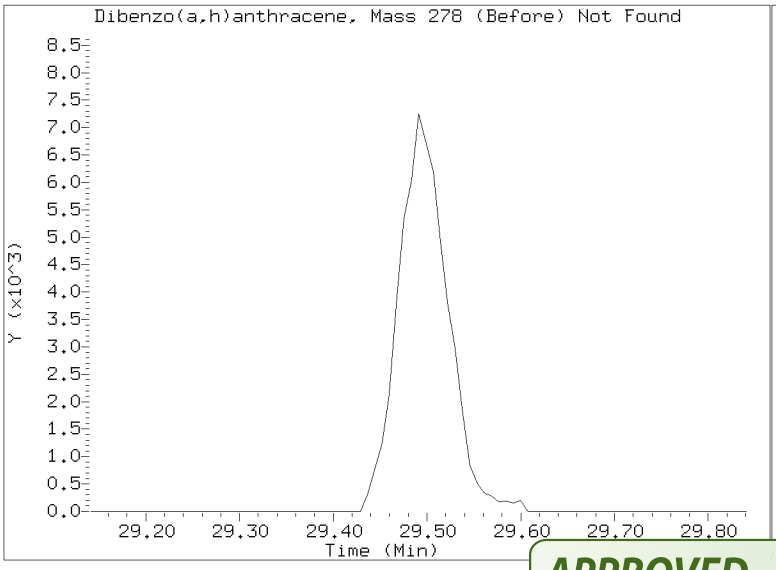
Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012308.D
Injection Date: 01-MAY-2023 18:46
Lab ID:SLE0036-CAL1 Client ID:
Report Date: 05/08/2023 09:57

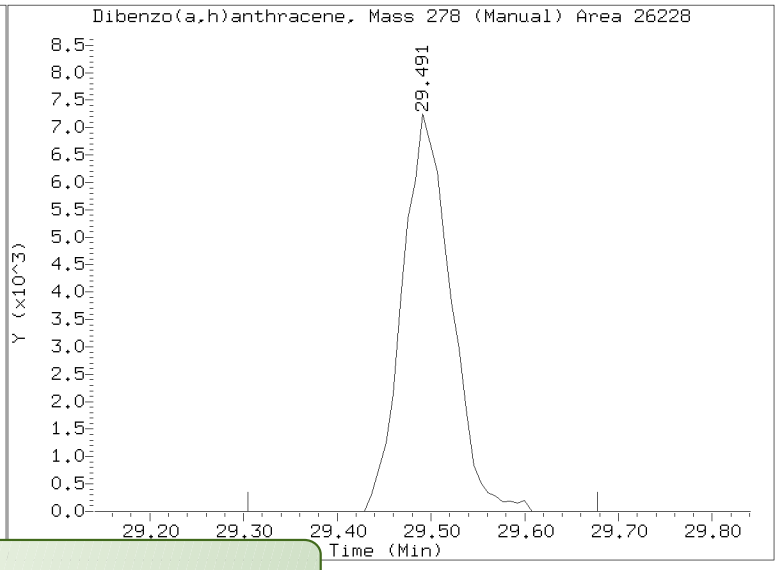












APPROVED

By Deenay Dunmore at 10:01 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

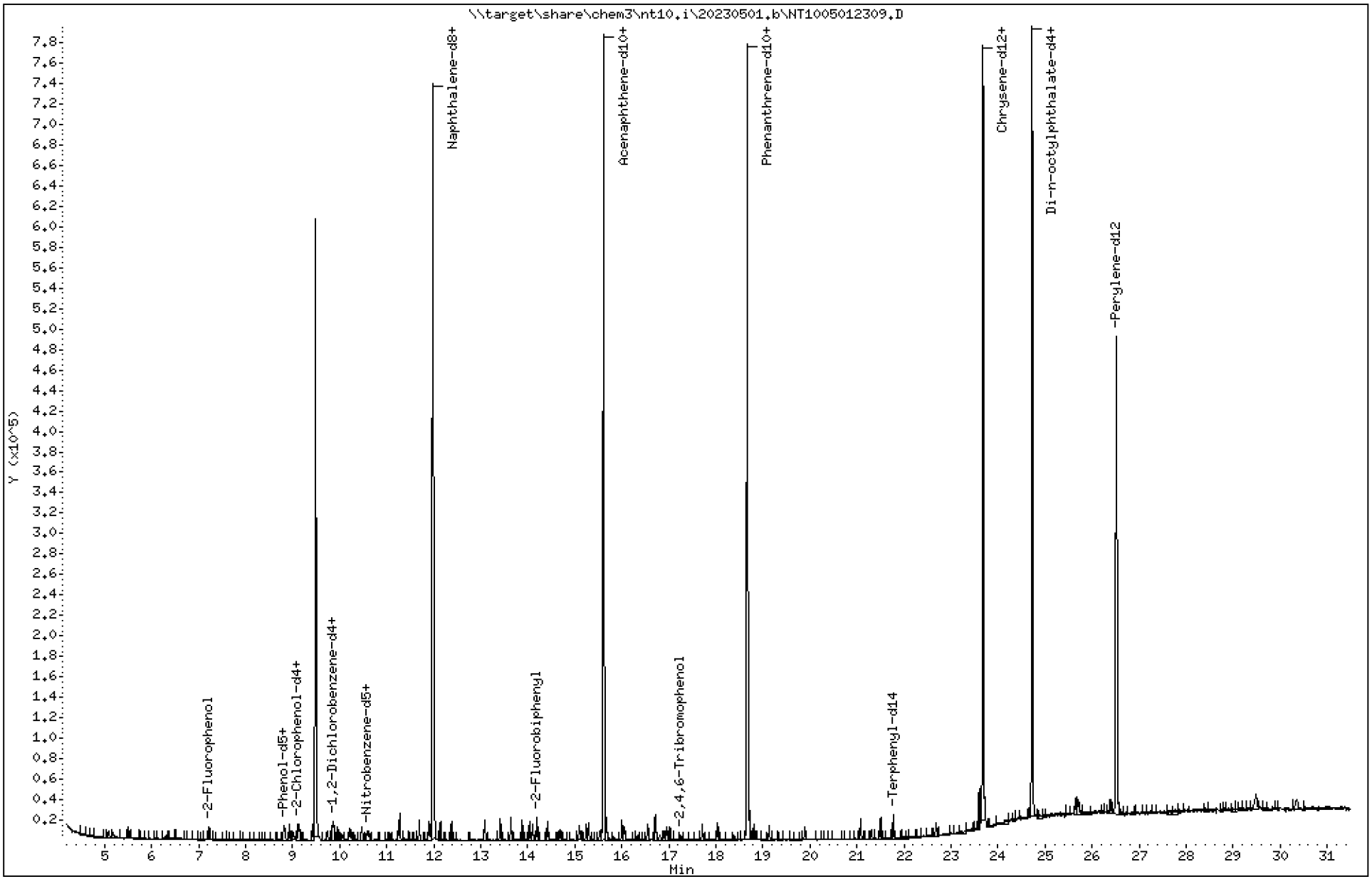
Sample Info: SEQ-SIM2

Instrument: nt10.i

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 600 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

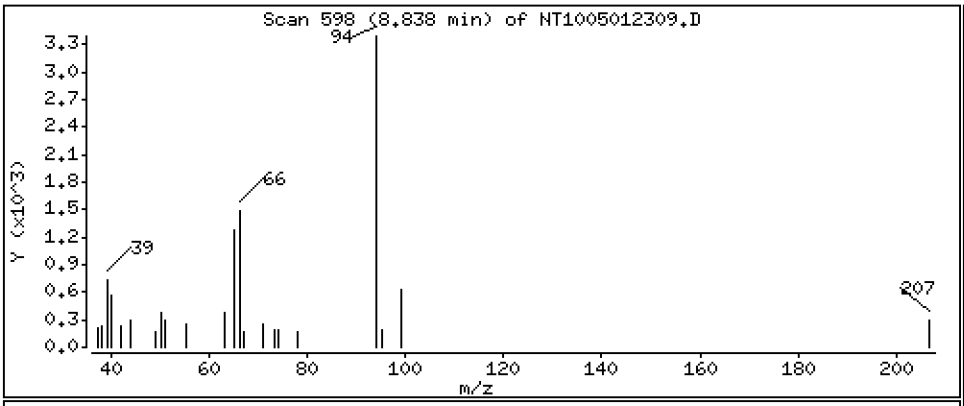
Sample Info: SEQ-SIM2

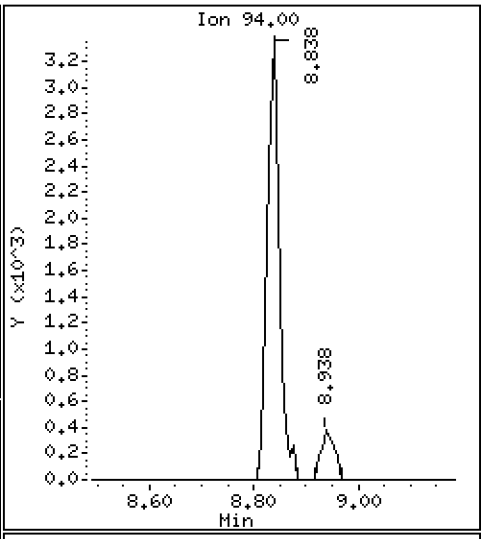
Operator: VTS

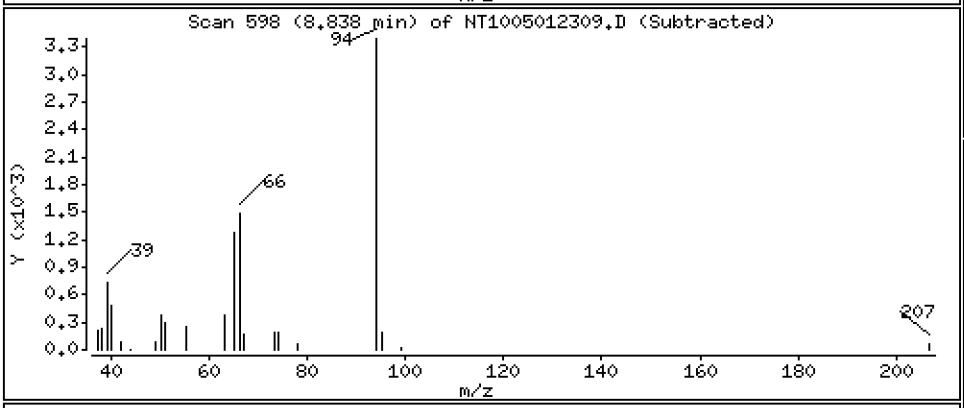
Column phase: ZB-5msi

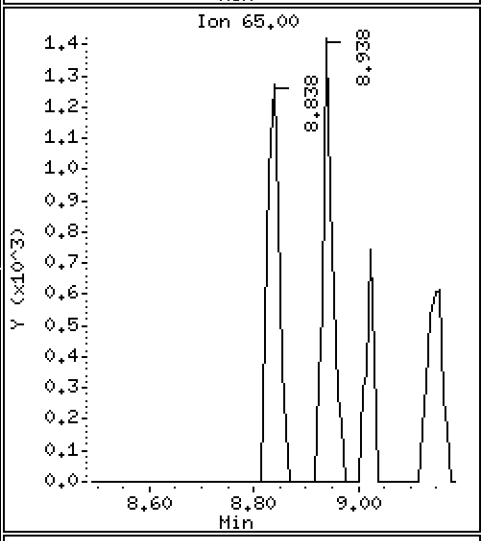
Column diameter: 0.25

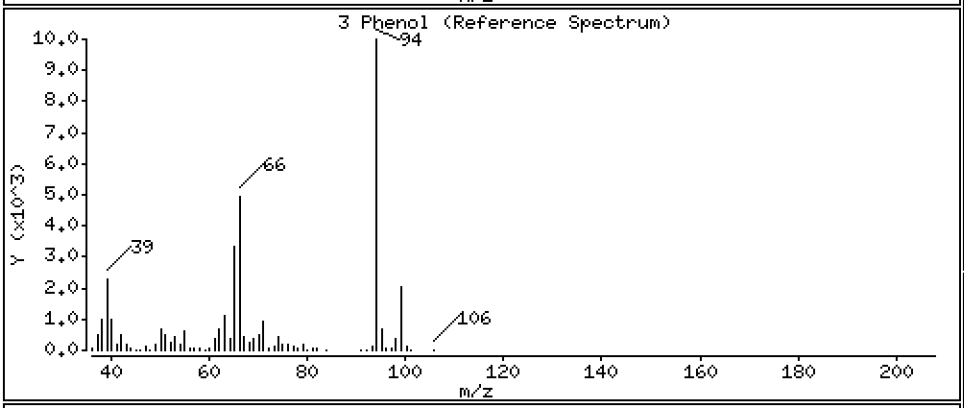
3 Phenol

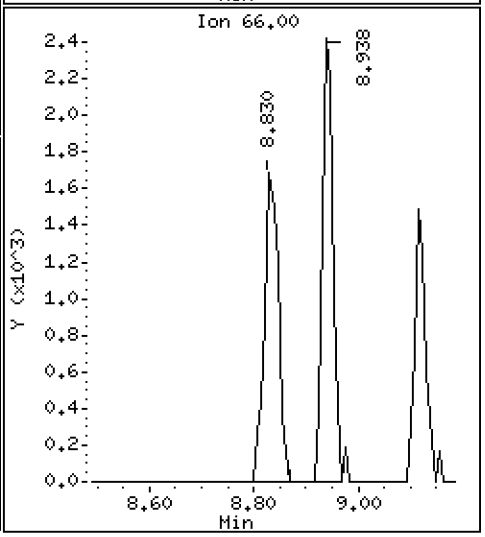


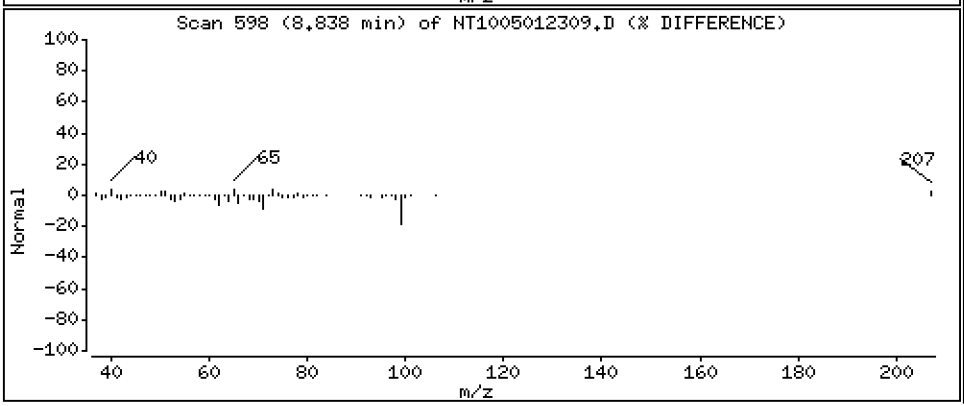












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

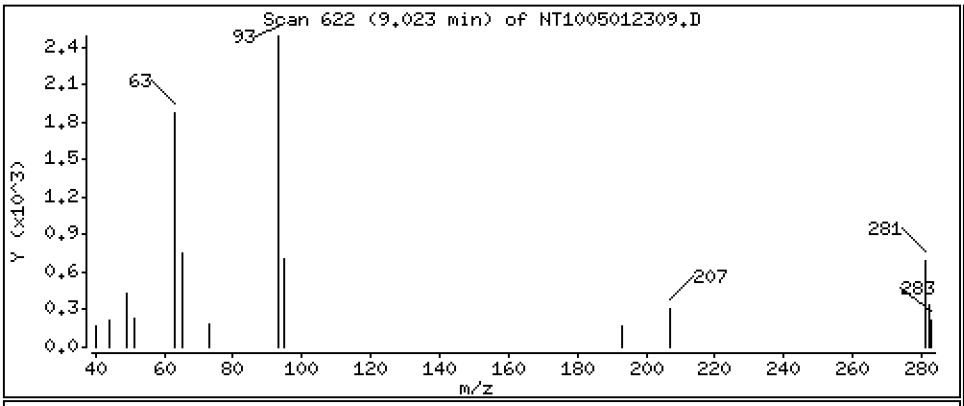
Sample Info: SEQ-SIM2

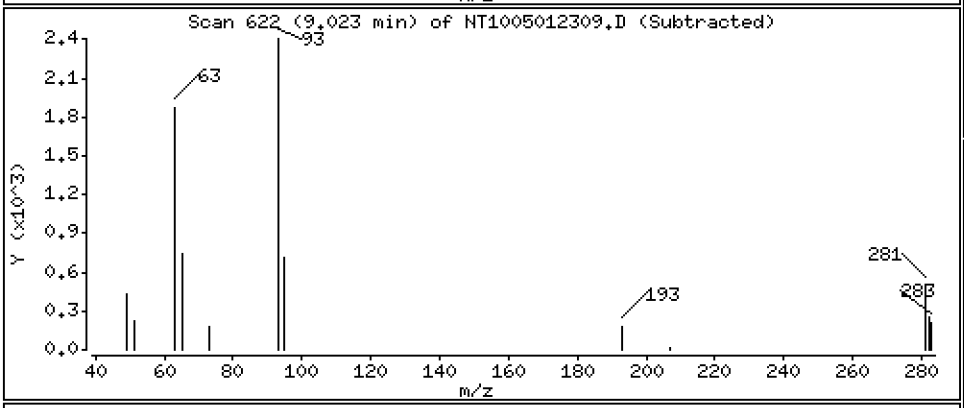
Operator: VTS

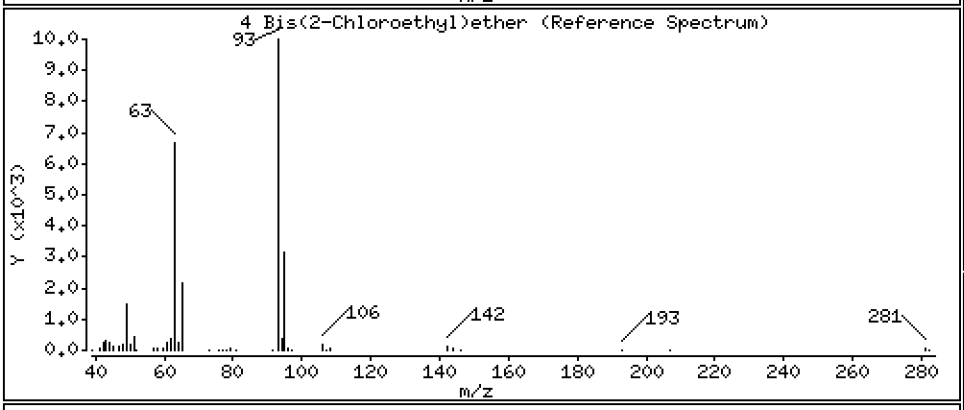
Column phase: ZB-5msi

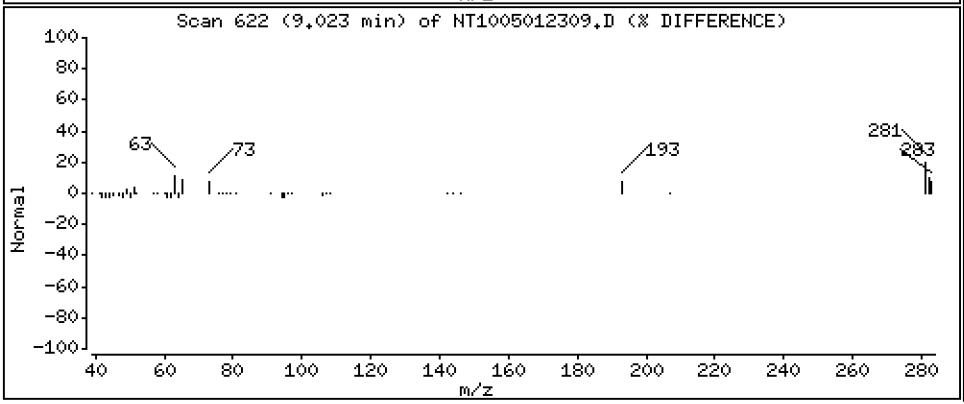
Column diameter: 0.25

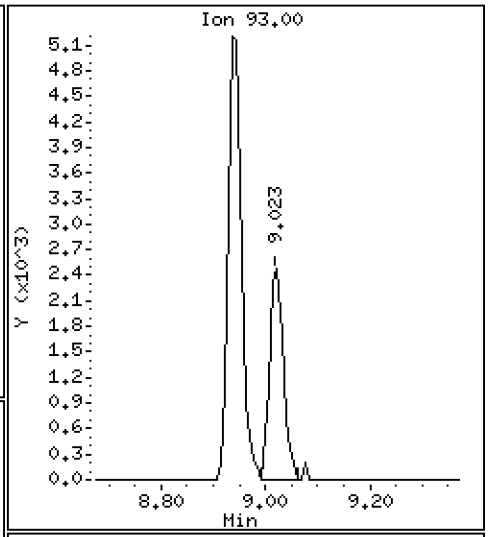
4 Bis(2-Chloroethyl)ether

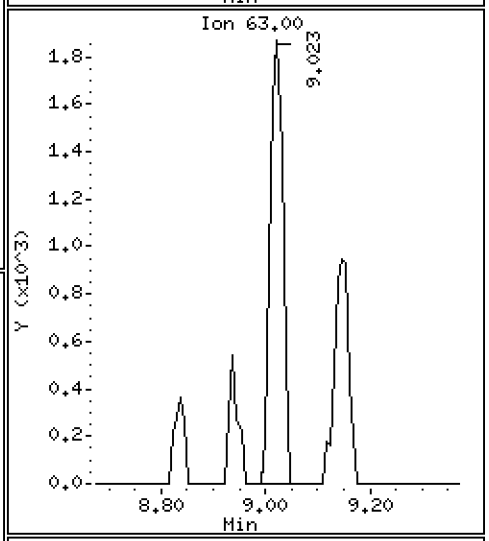


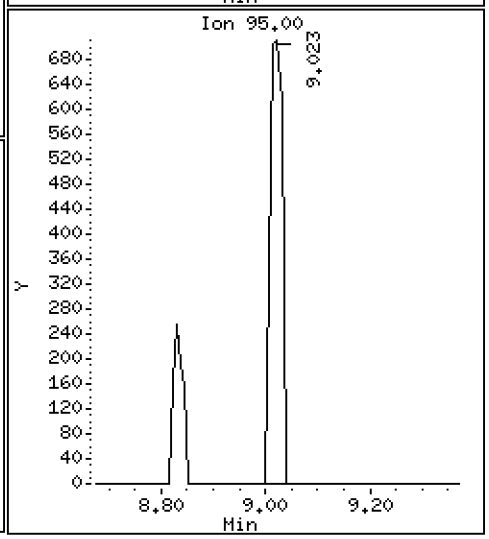












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

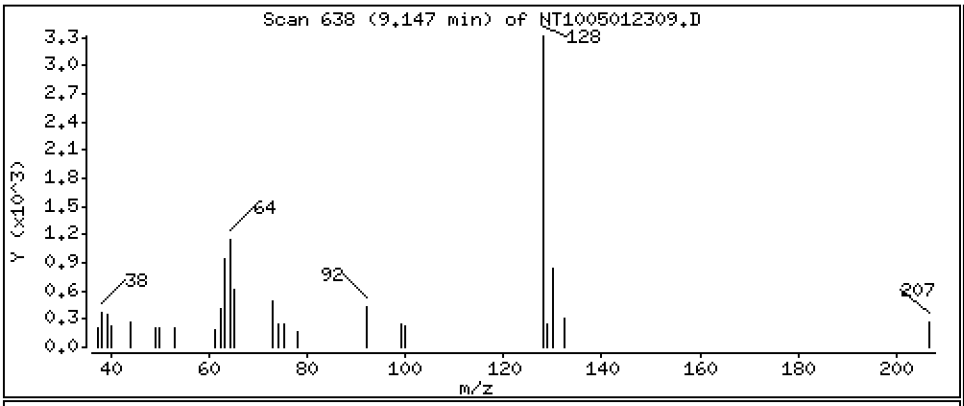
Sample Info: SEQ-SIM2

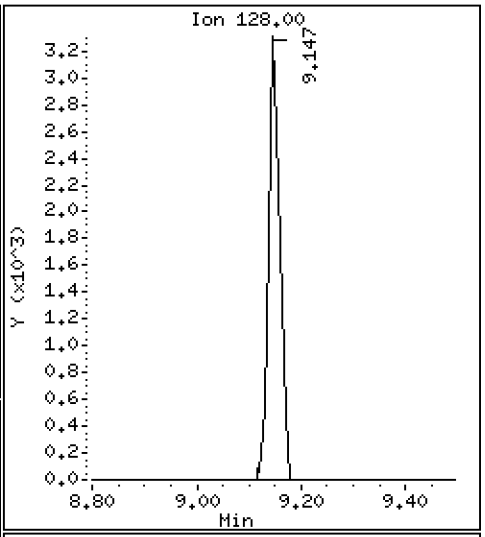
Operator: VTS

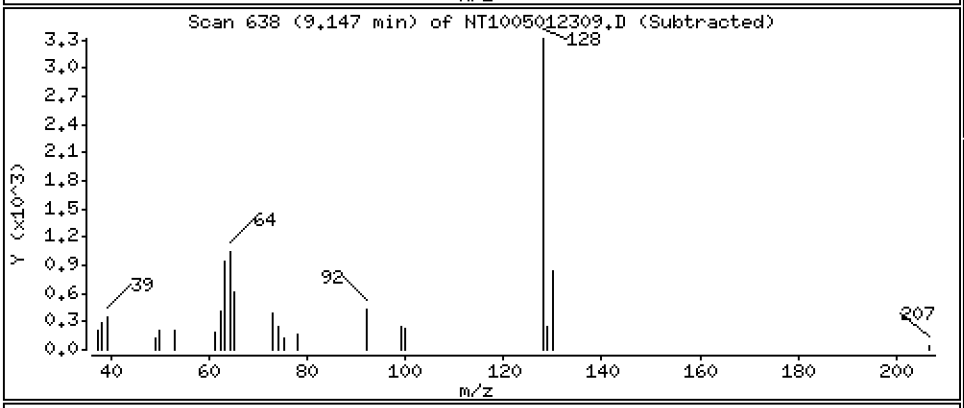
Column phase: ZB-5msi

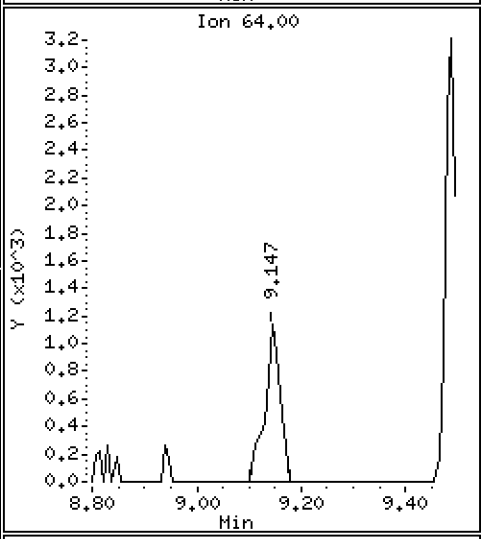
Column diameter: 0.25

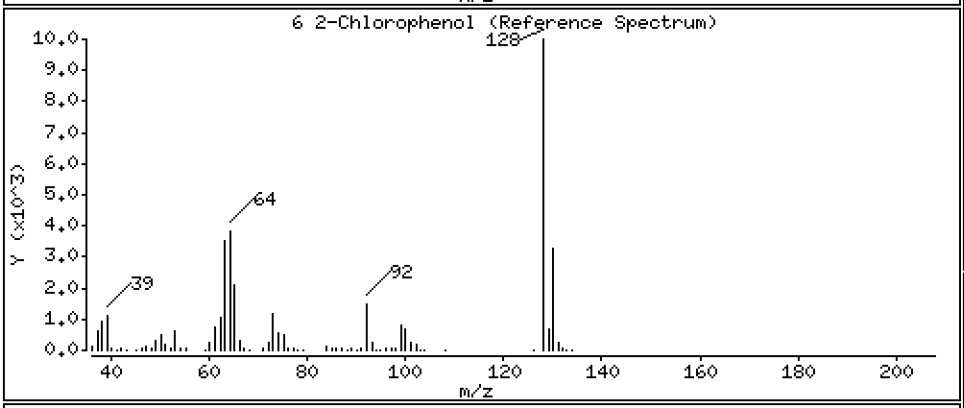
6 2-Chlorophenol

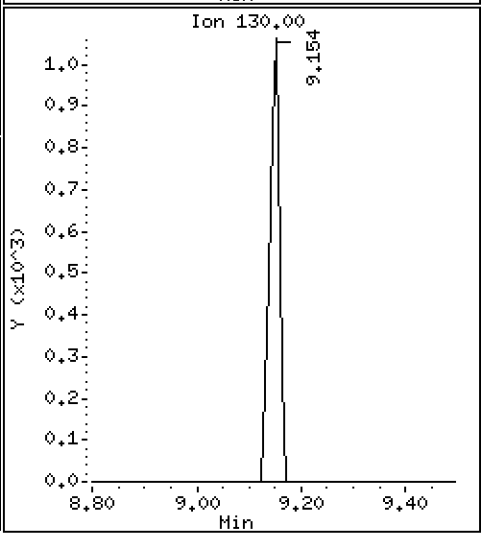


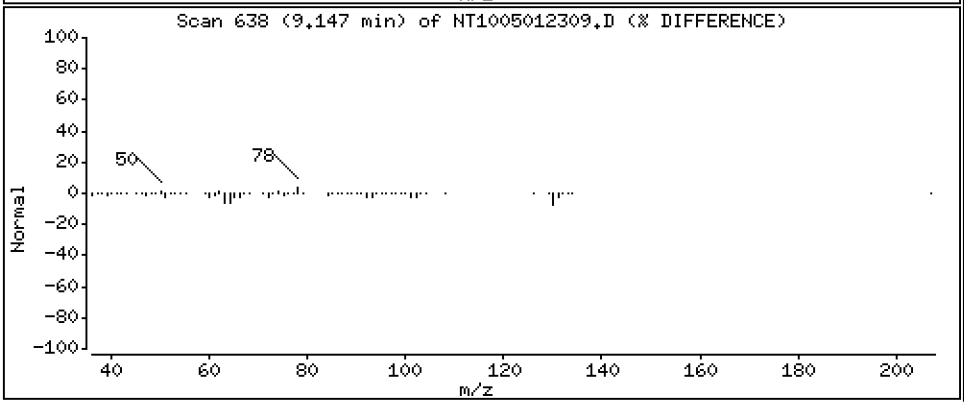












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

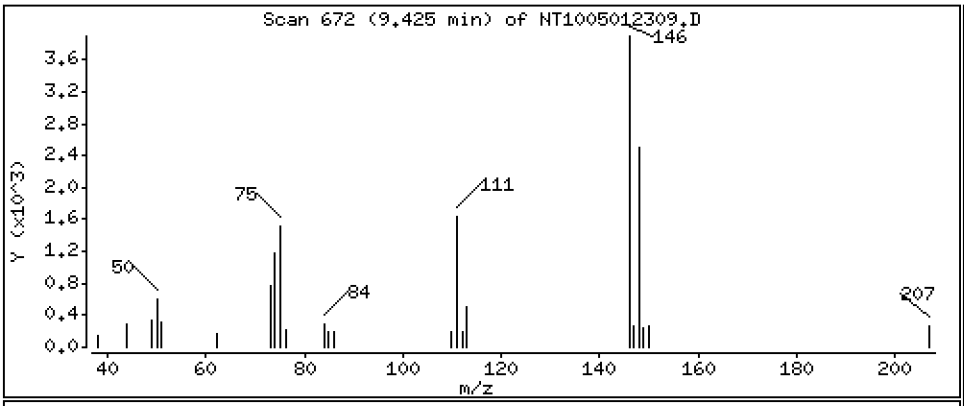
Sample Info: SEQ-SIM2

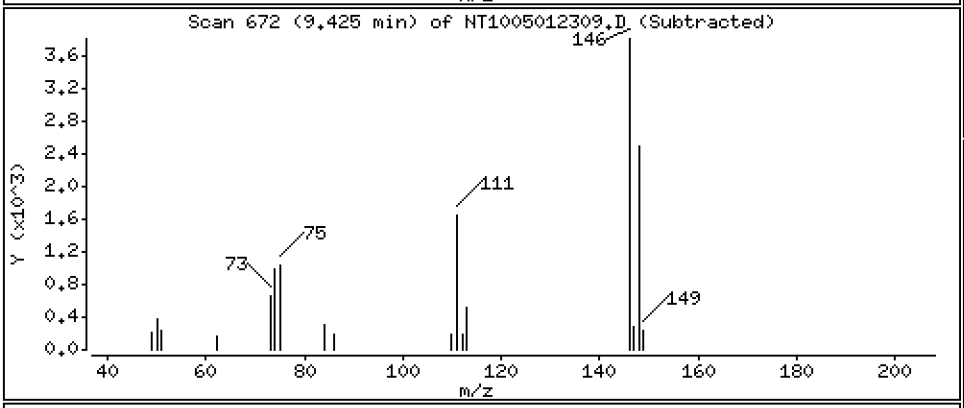
Operator: VTS

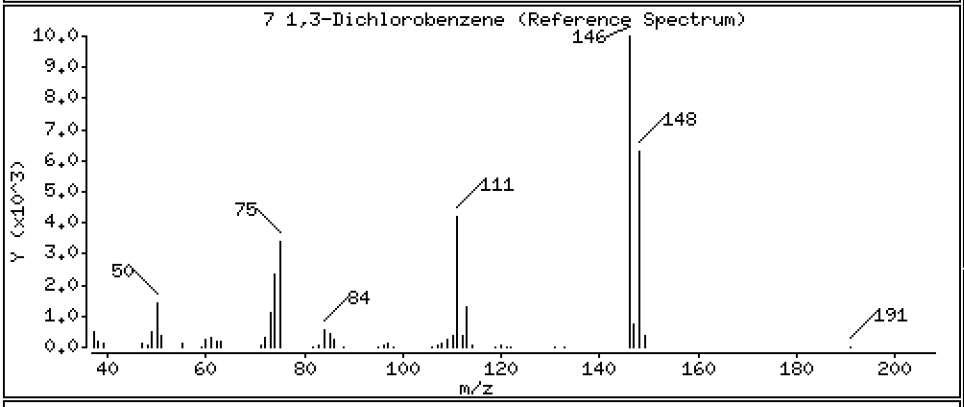
Column phase: ZB-5msi

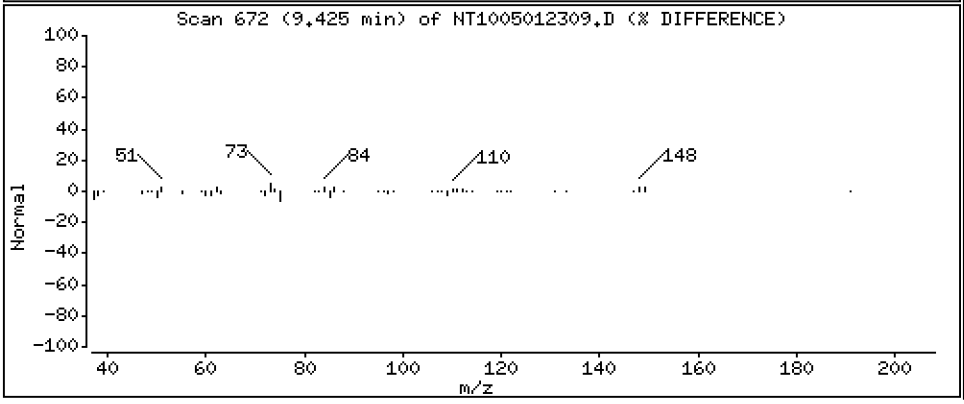
Column diameter: 0.25

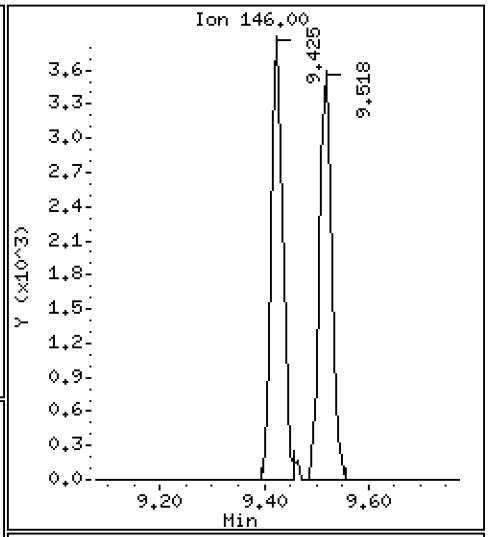
7 1,3-Dichlorobenzene

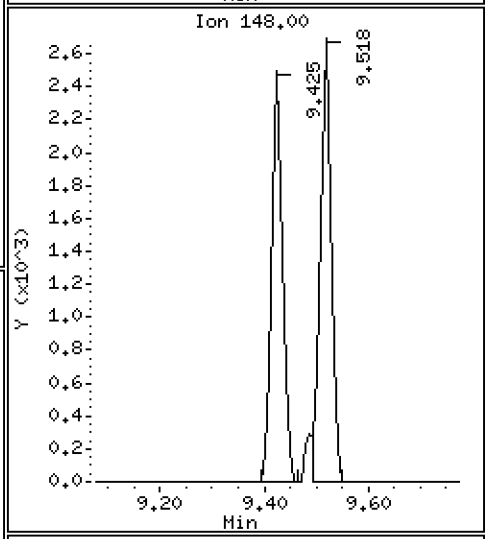


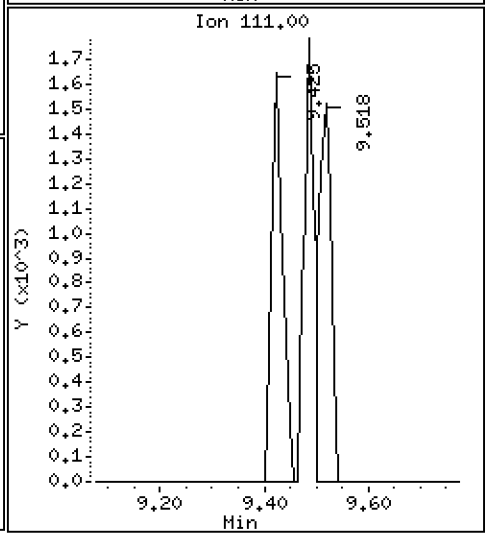












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

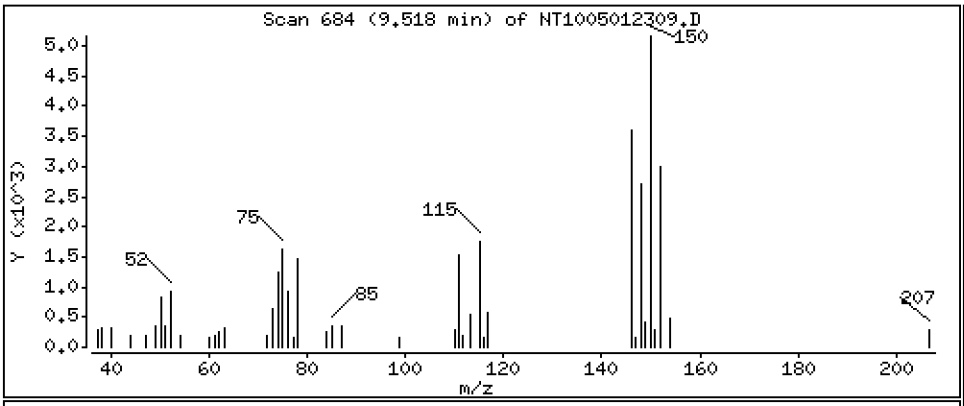
Sample Info: SEQ-SIM2

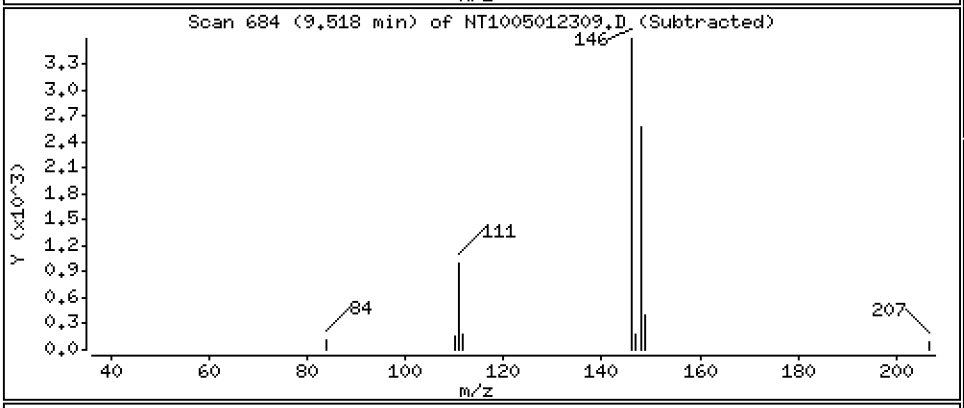
Operator: VTS

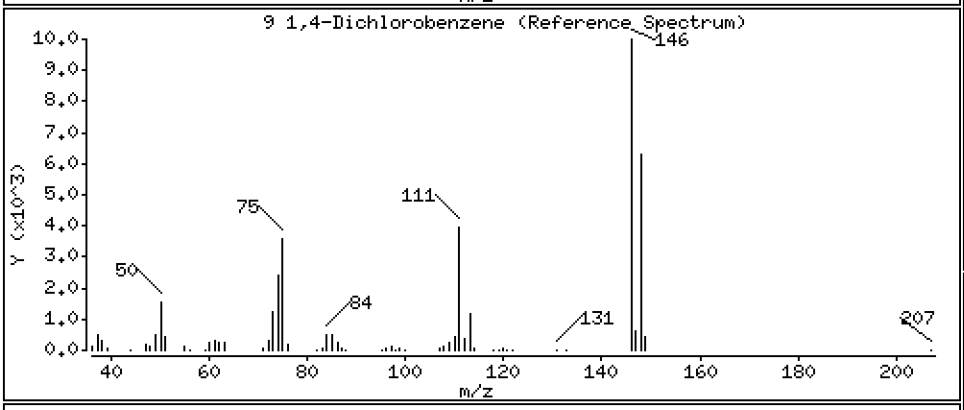
Column phase: ZB-5msi

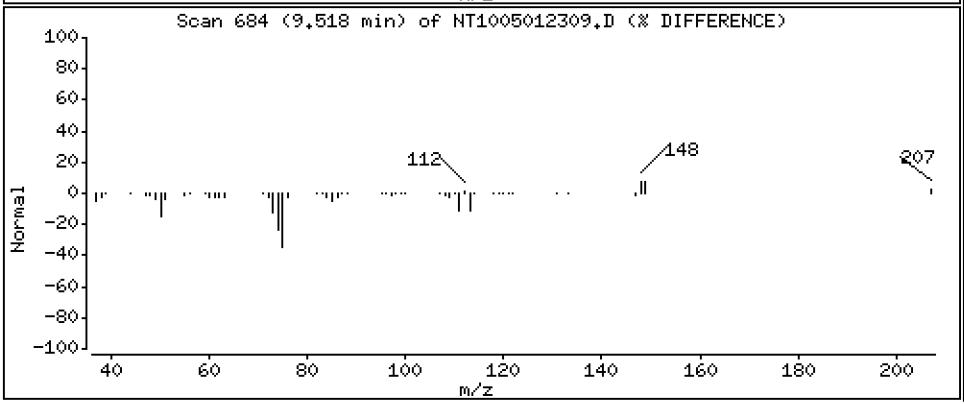
Column diameter: 0.25

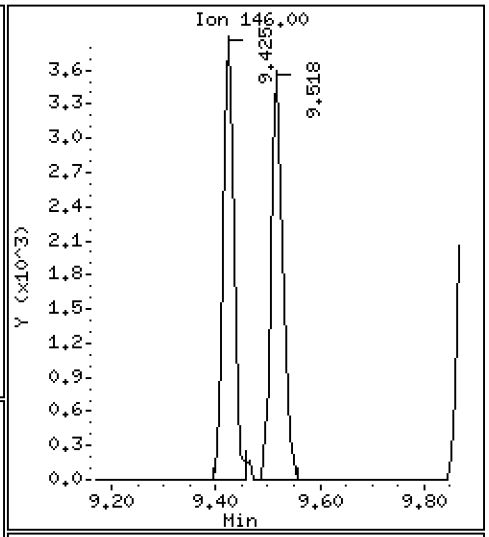
9 1,4-Dichlorobenzene

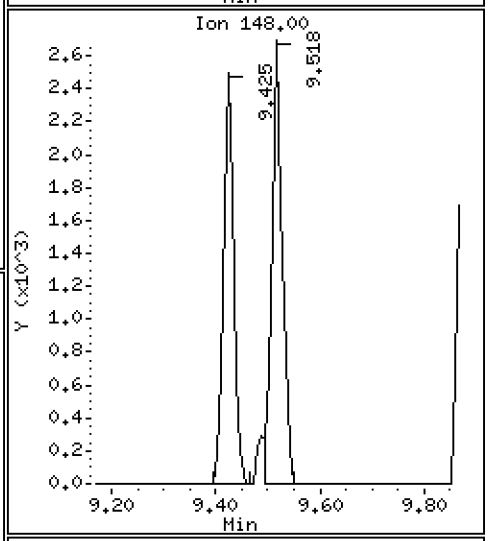


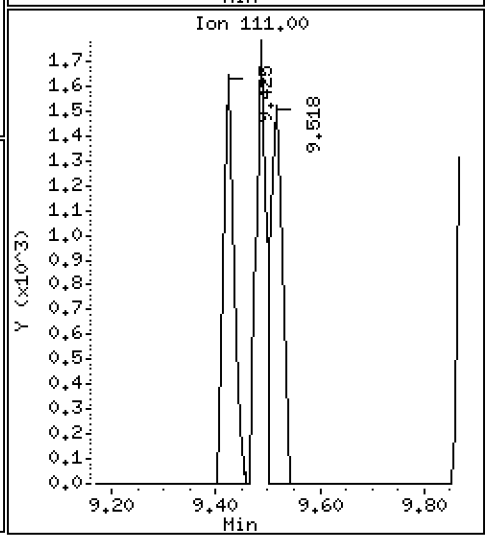












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

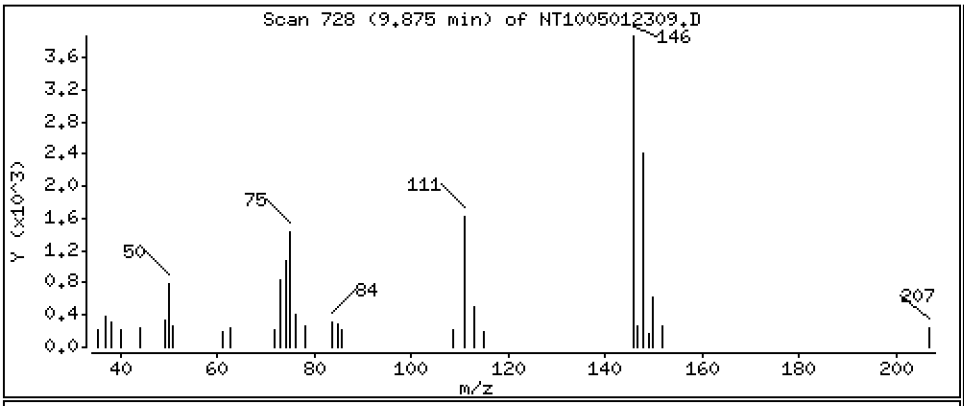
Sample Info: SEQ-SIM2

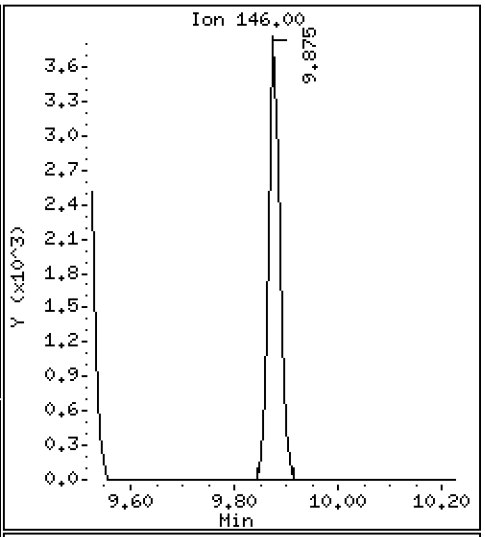
Operator: VTS

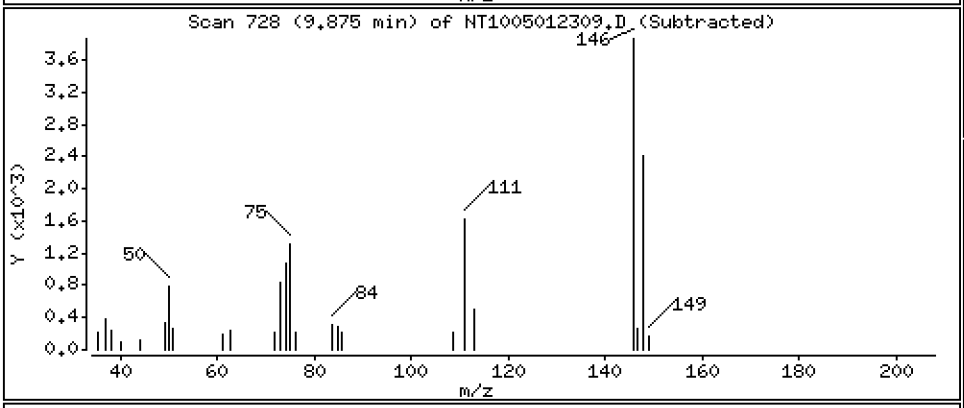
Column phase: ZB-5msi

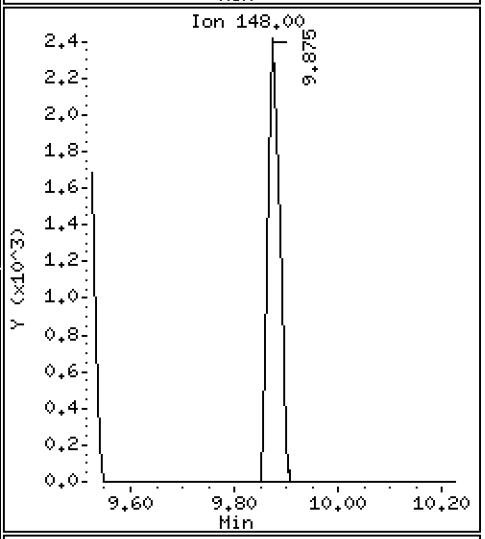
Column diameter: 0.25

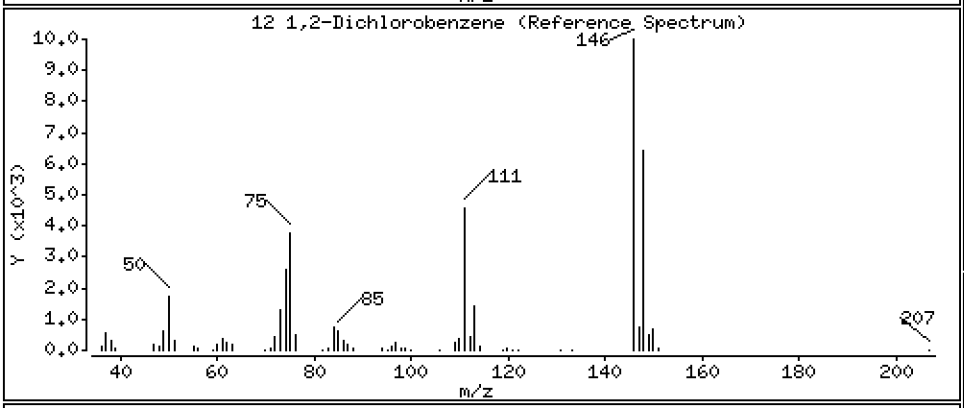
12 1,2-Dichlorobenzene

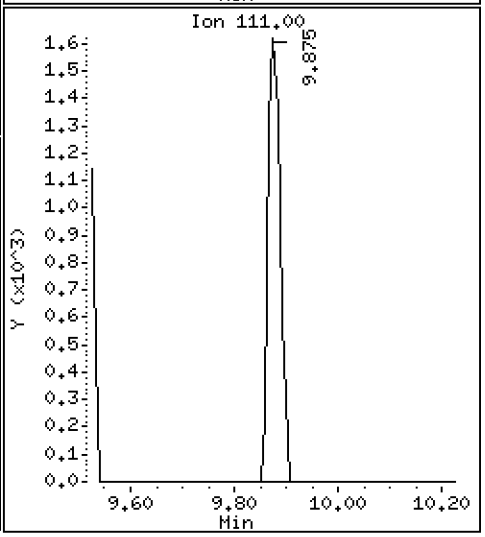


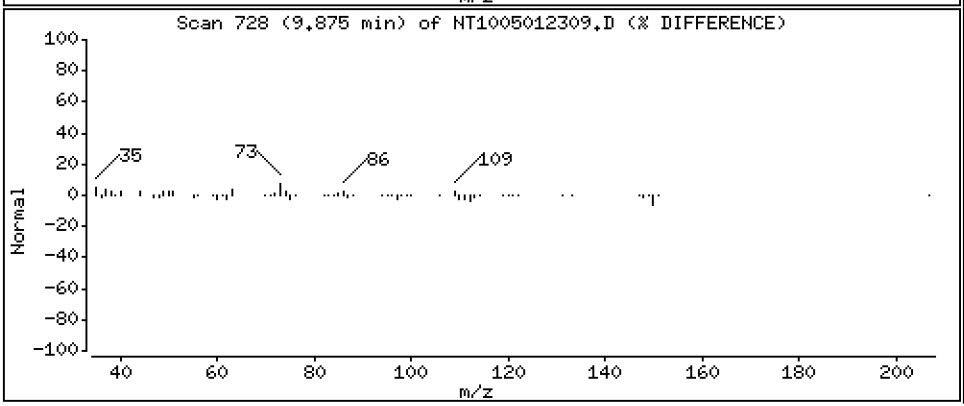












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

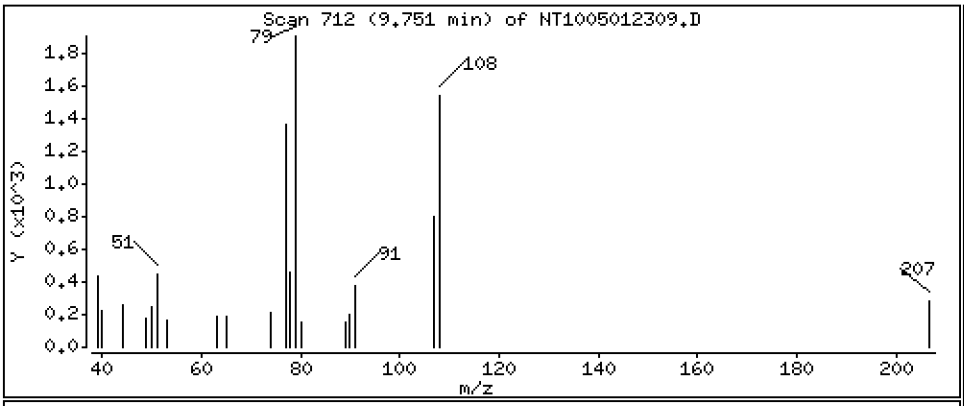
Sample Info: SEQ-SIM2

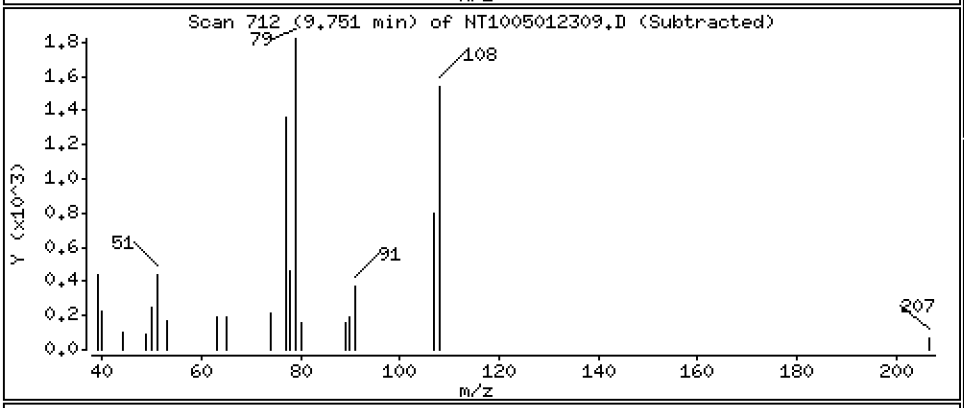
Operator: VTS

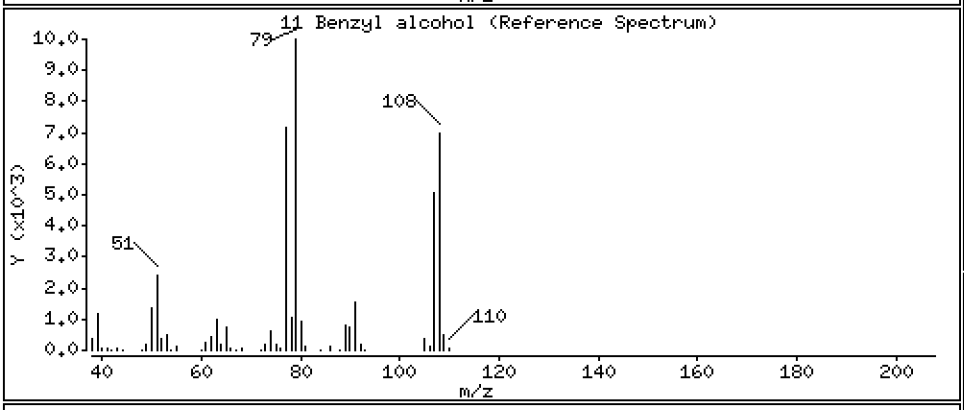
Column phase: ZB-5msi

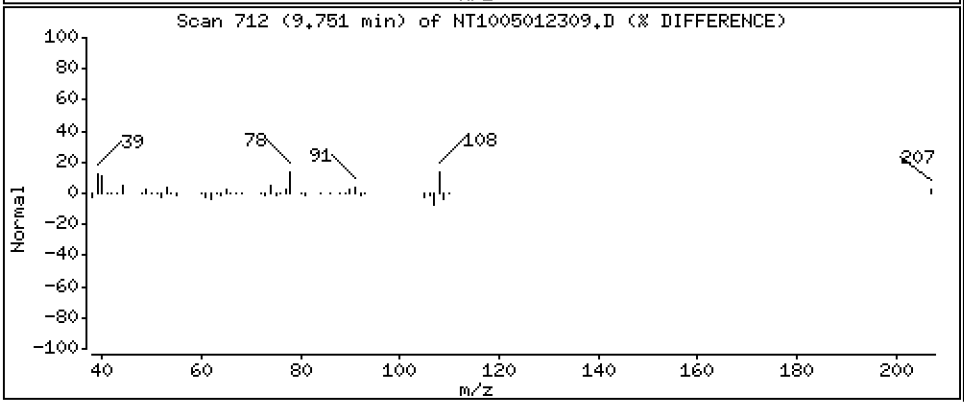
Column diameter: 0.25

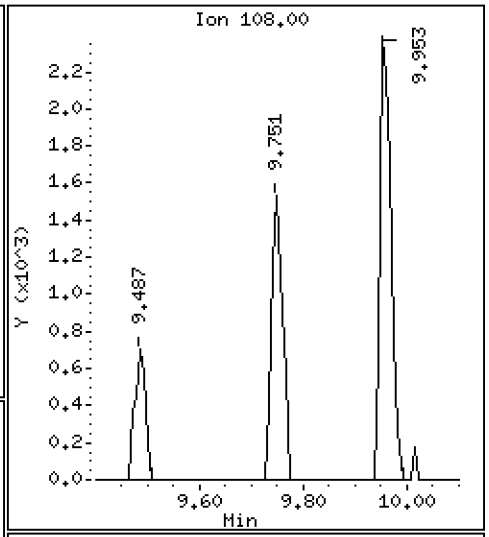
11 Benzyl alcohol

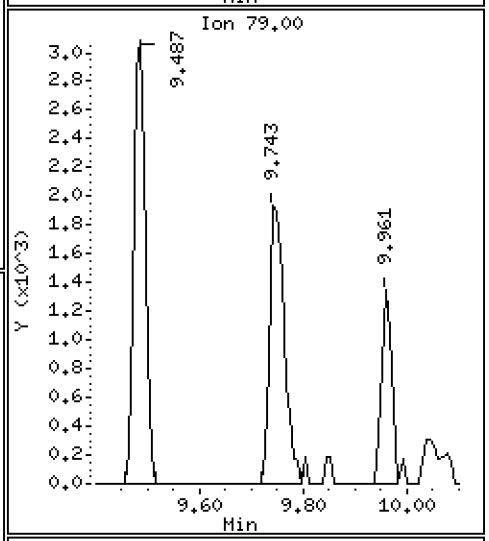


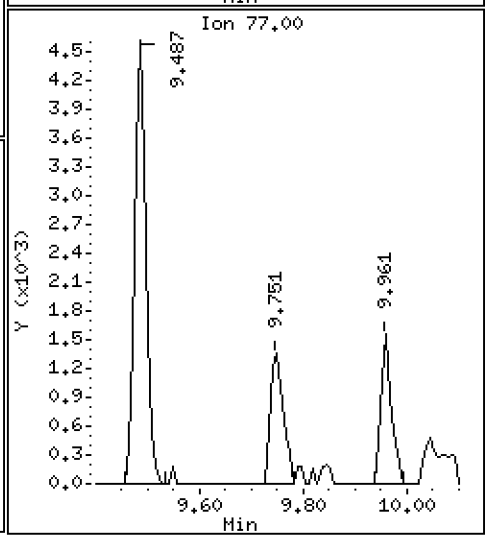












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

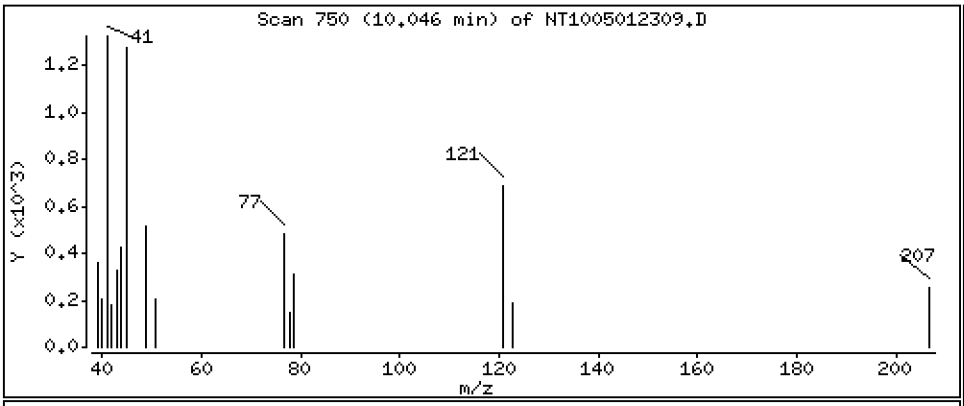
Sample Info: SEQ-SIM2

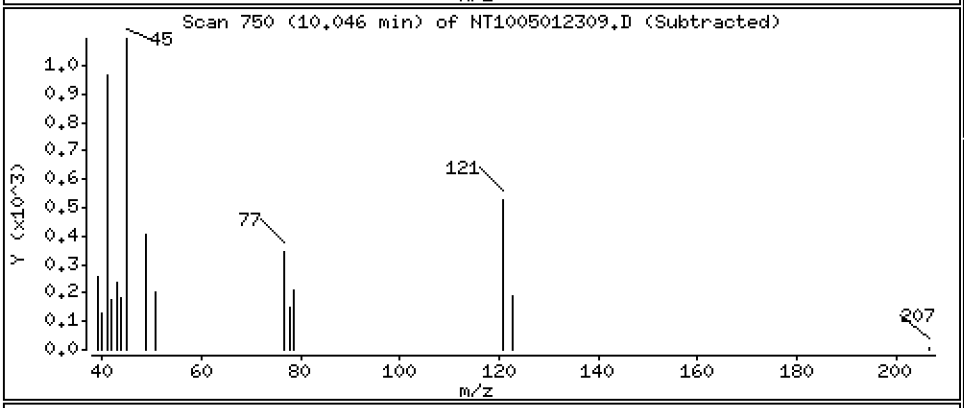
Operator: VTS

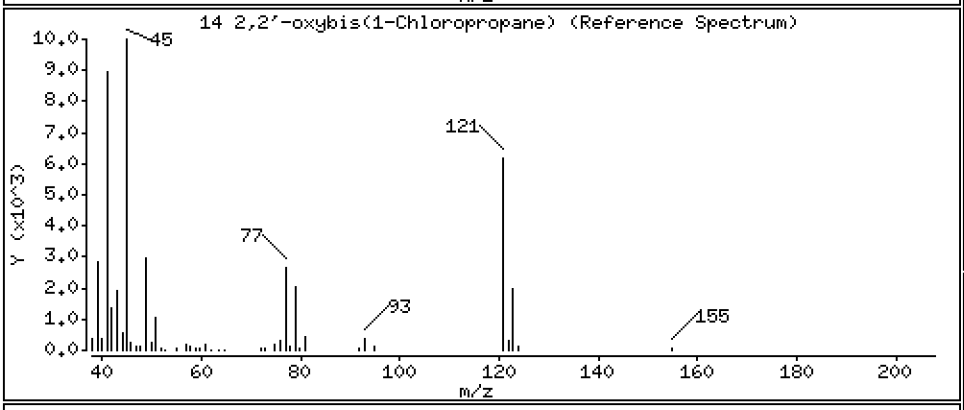
Column phase: ZB-5msi

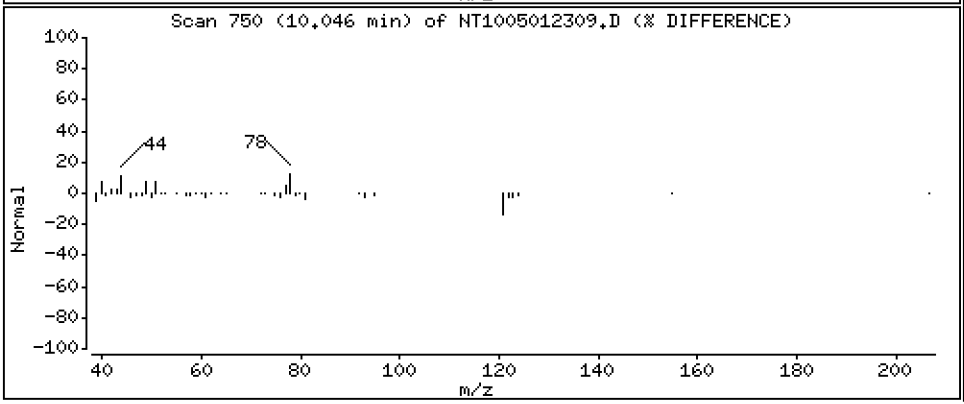
Column diameter: 0.25

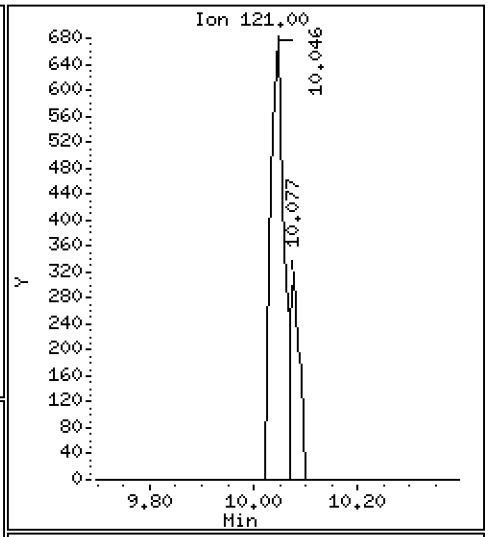
14 2,2'-oxybis(1-Chloropropane)

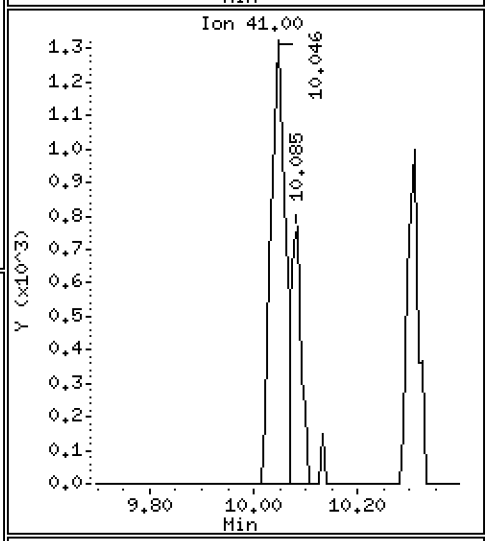


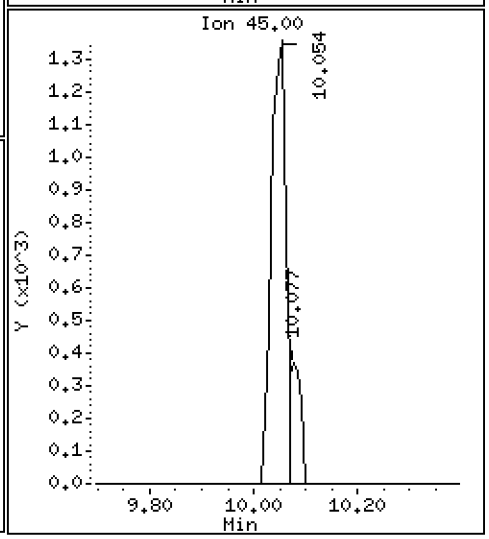












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

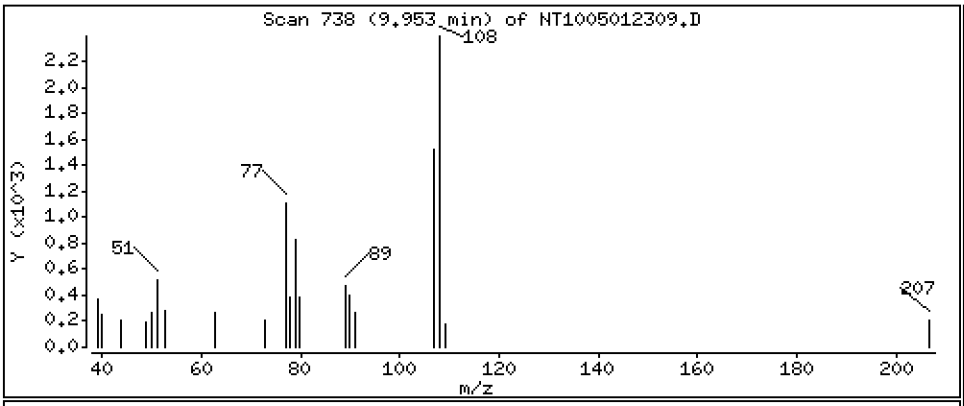
Sample Info: SEQ-SIM2

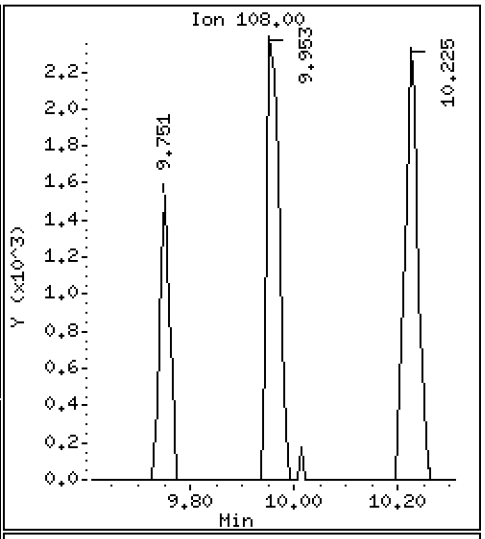
Operator: VTS

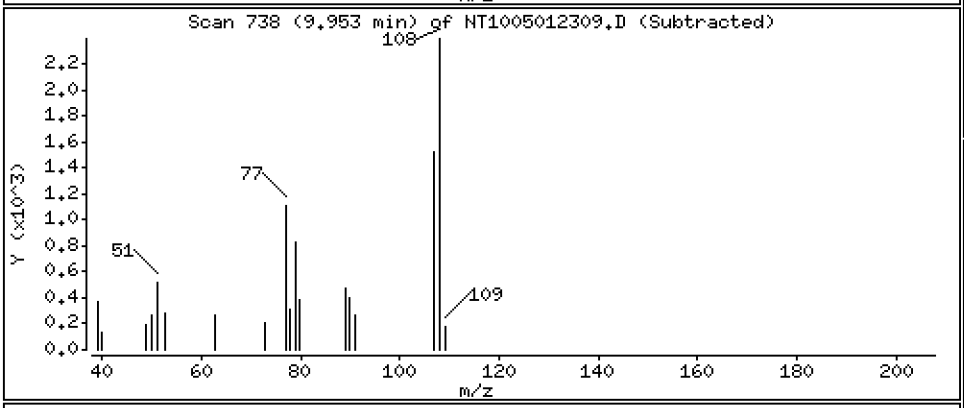
Column phase: ZB-5msi

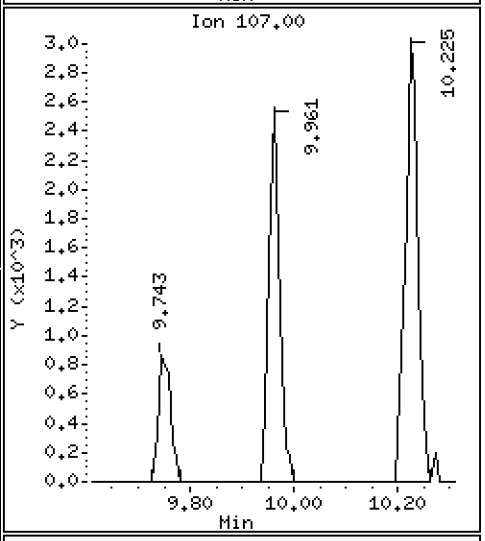
Column diameter: 0.25

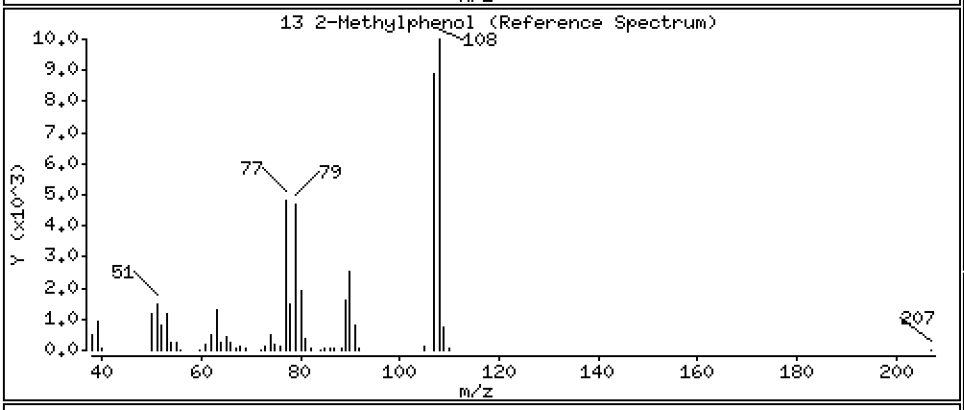
13 2-Methylphenol

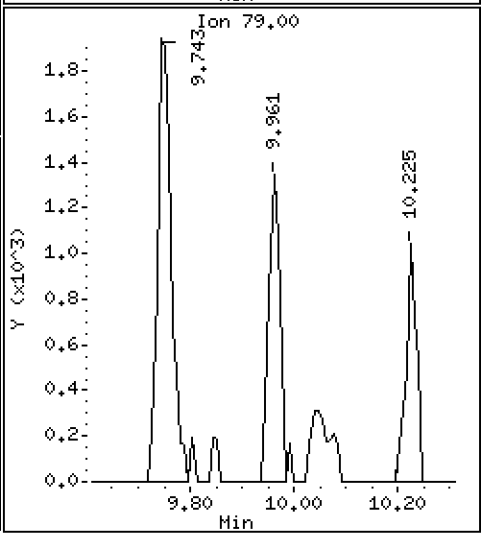


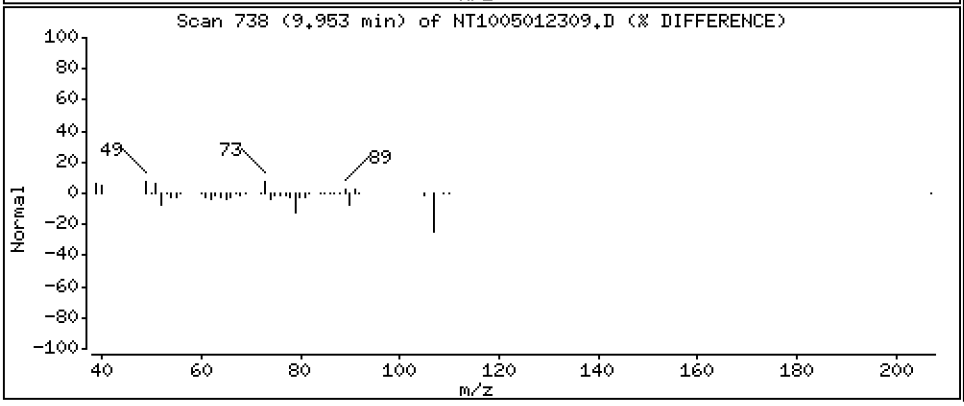












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

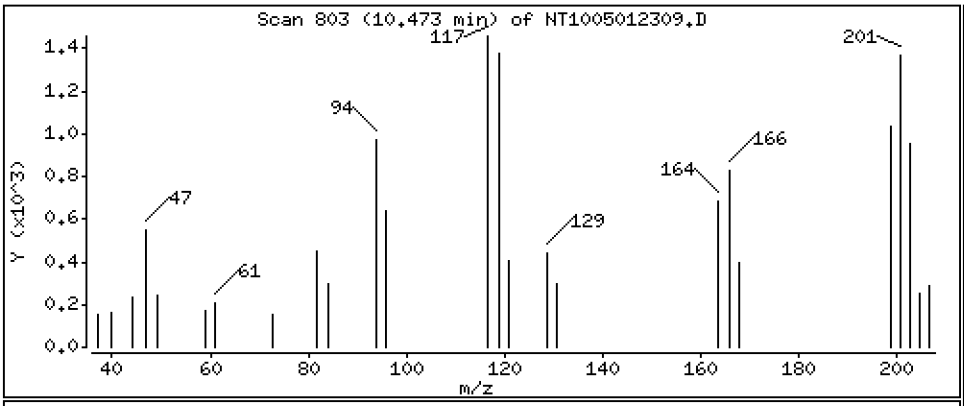
Sample Info: SEQ-SIM2

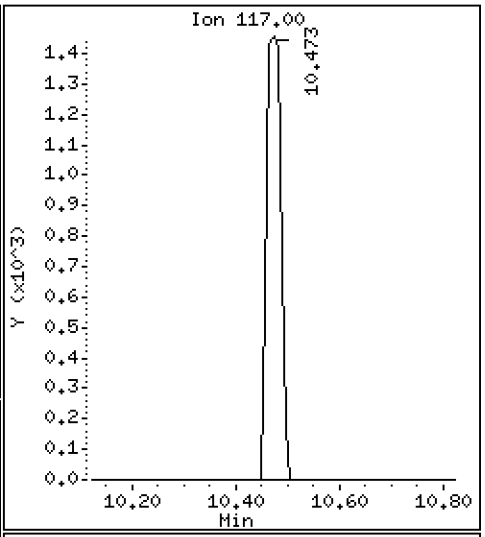
Operator: VTS

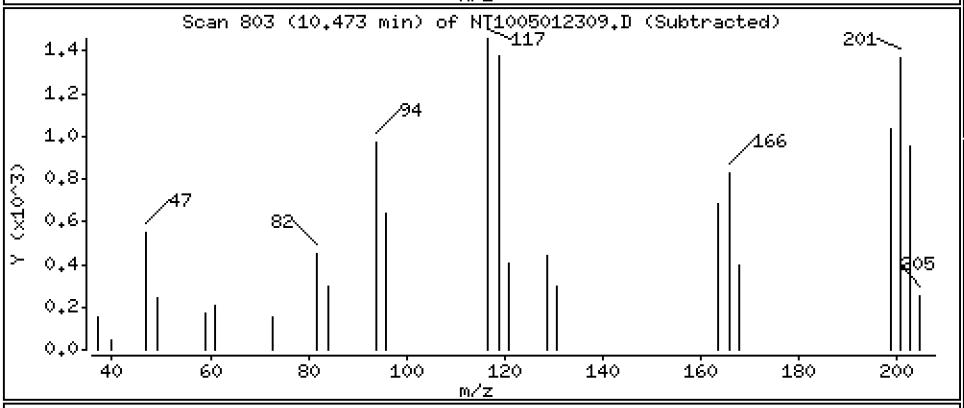
Column phase: ZB-5msi

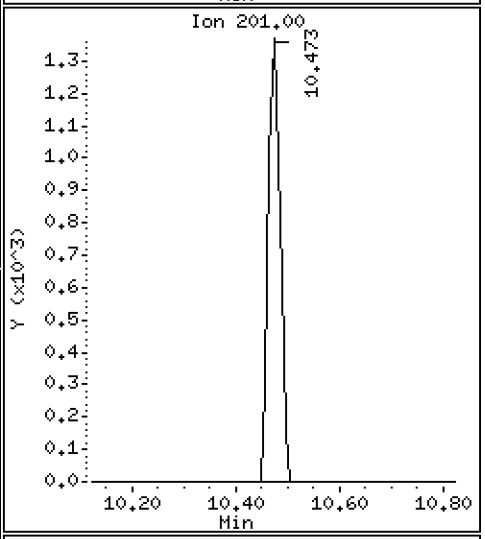
Column diameter: 0.25

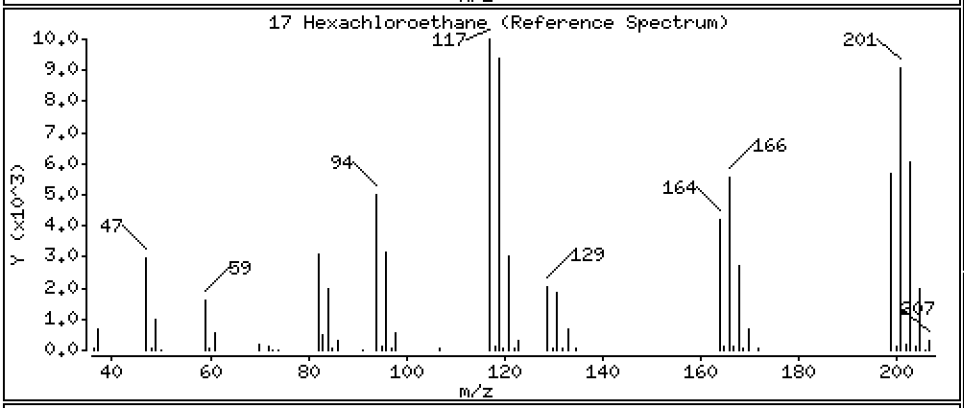
17 Hexachloroethane

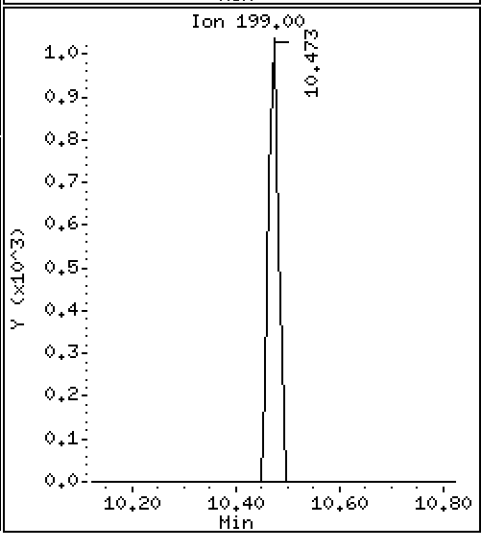


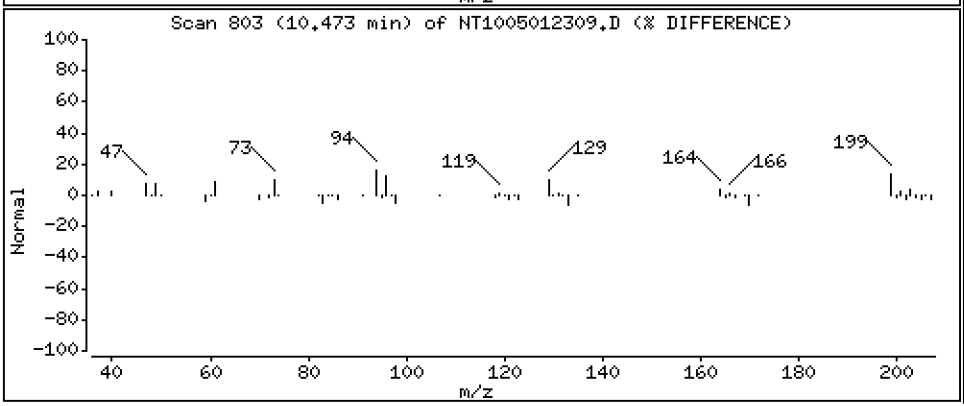












Date : 01-MAY-2023 19:25

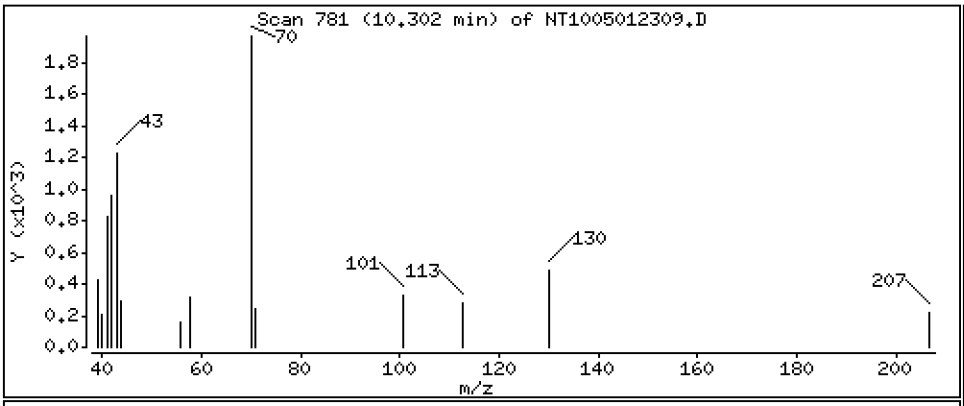
Client ID: Instrument: nt10.i

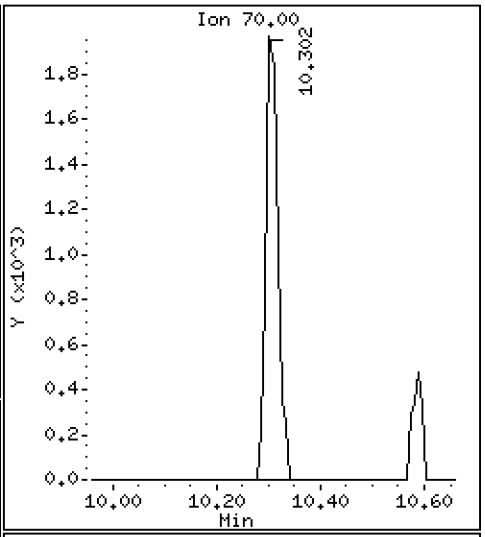
Sample Info: SEQ-SIM2

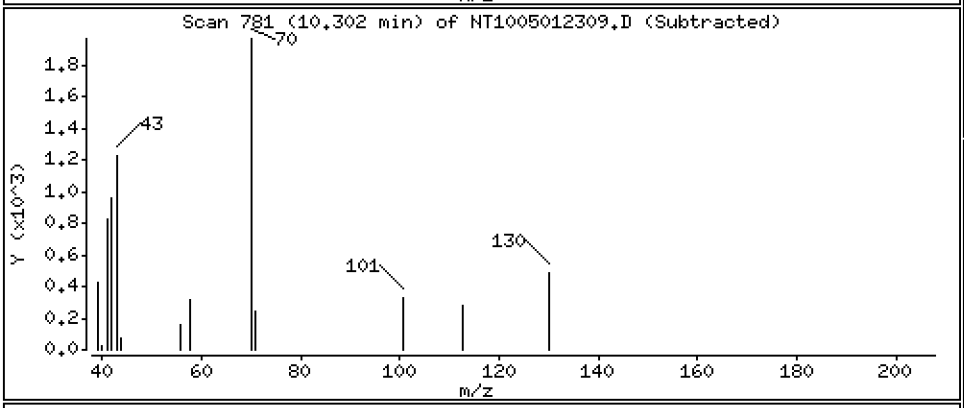
Operator: VTS

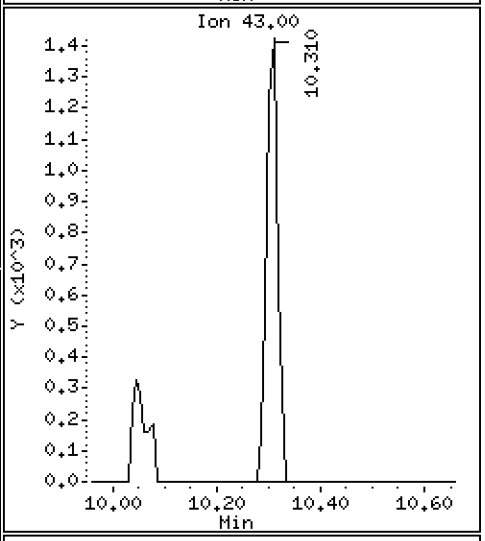
Column phase: ZB-5msi Column diameter: 0.25

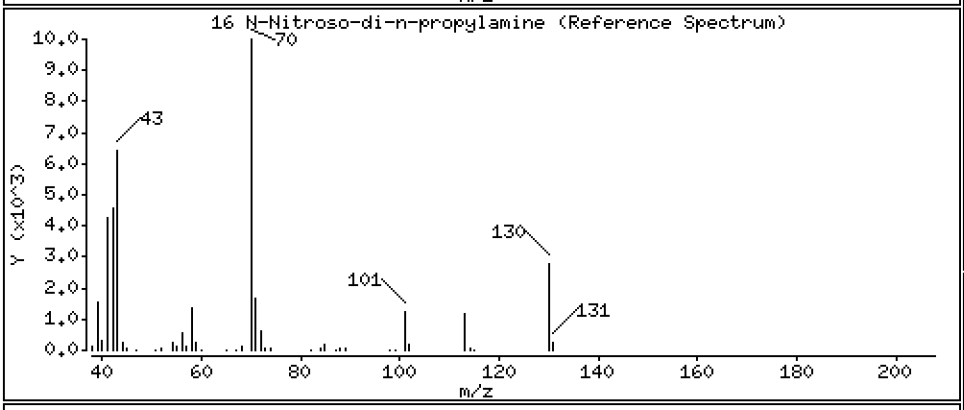
16 N-Nitroso-di-n-propylamine

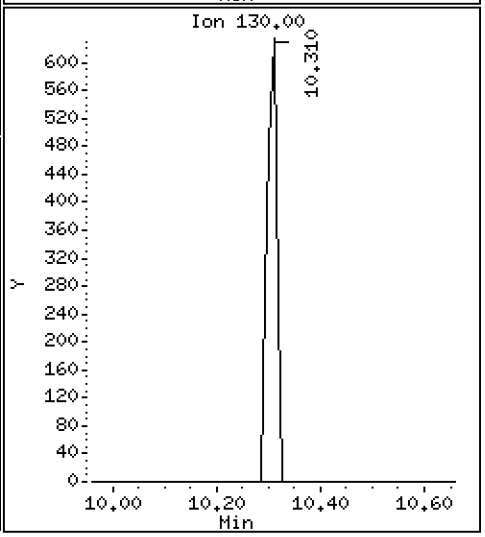


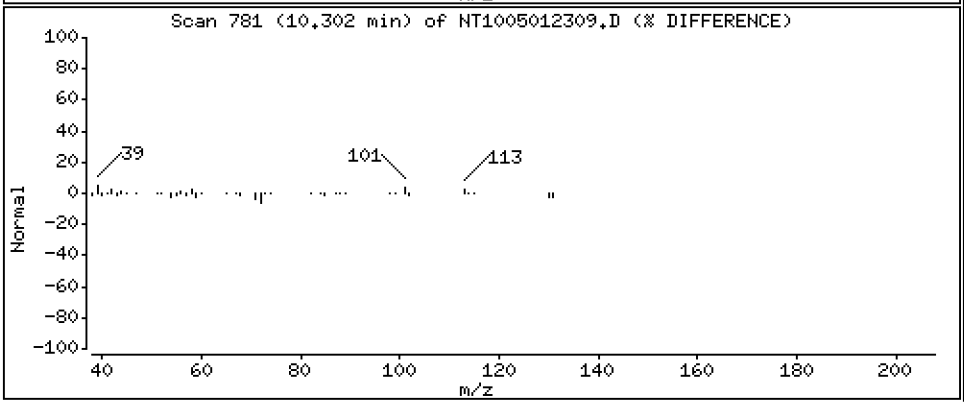












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

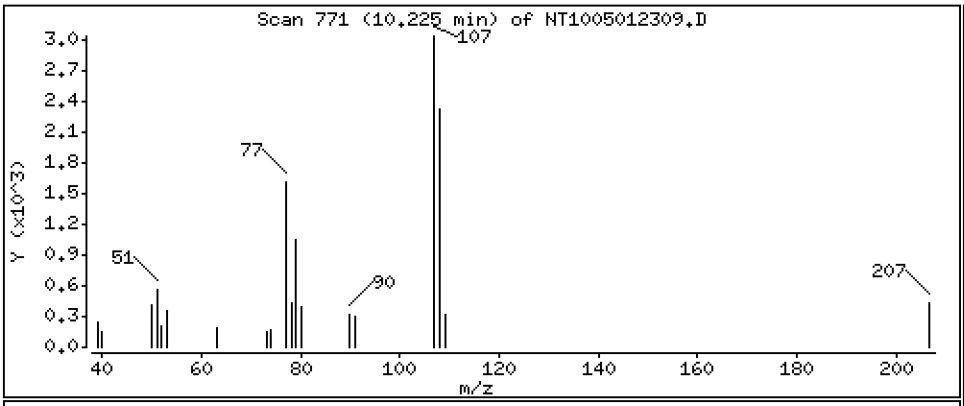
Sample Info: SEQ-SIM2

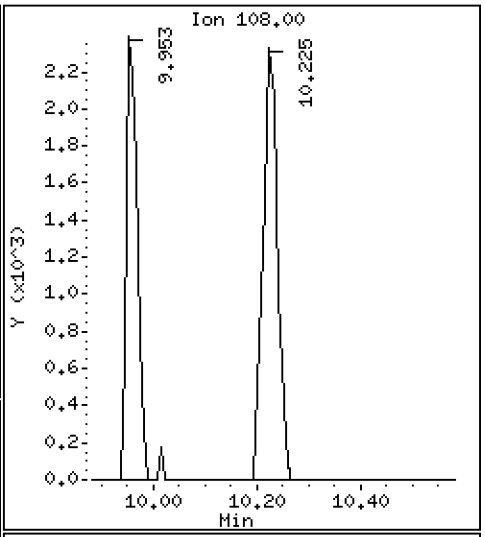
Operator: VTS

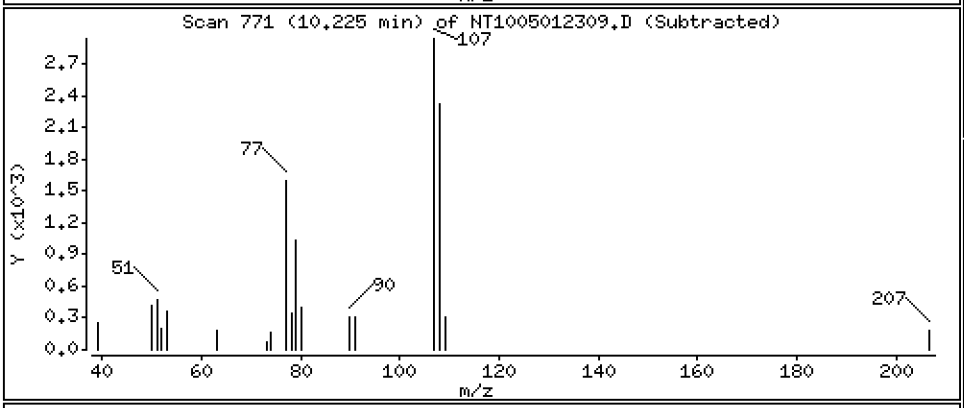
Column phase: ZB-5msi

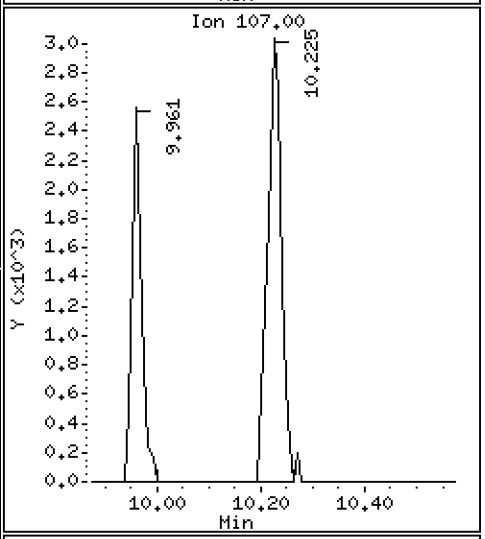
Column diameter: 0.25

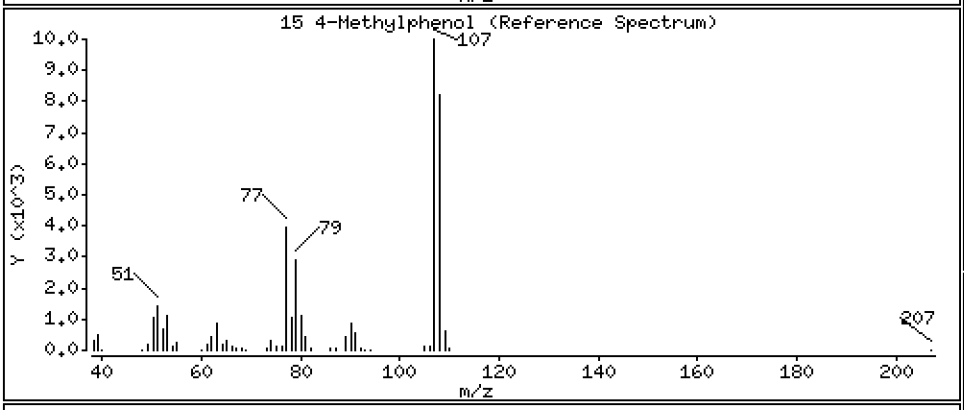
15 4-Methylphenol

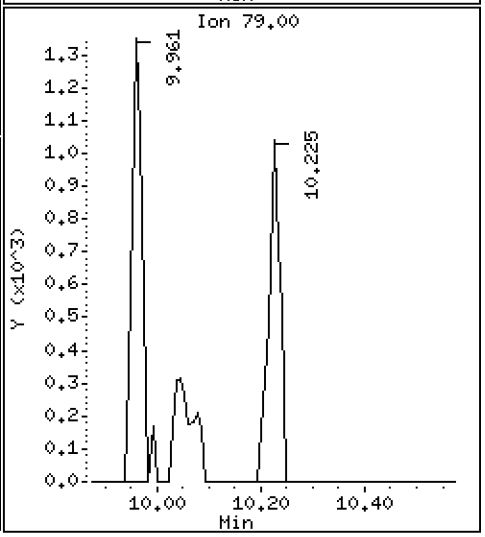


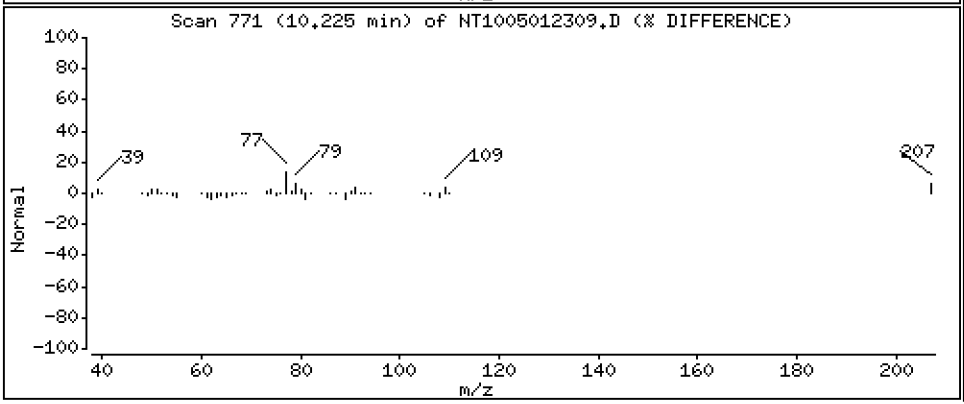












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

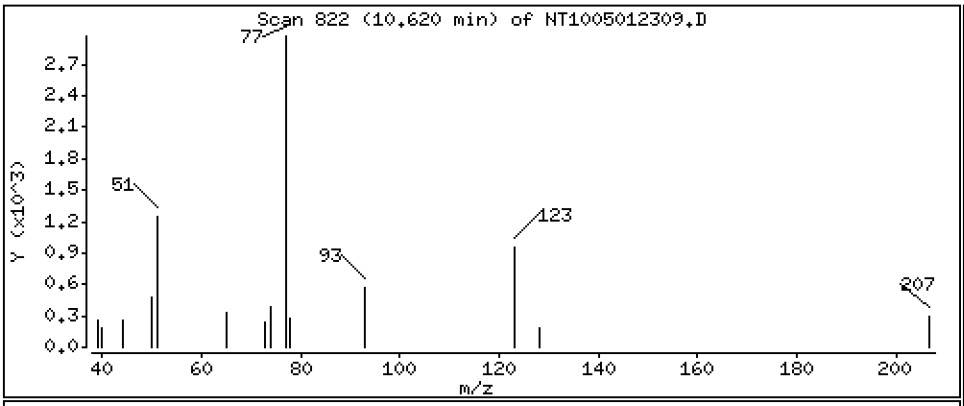
Operator: VTS

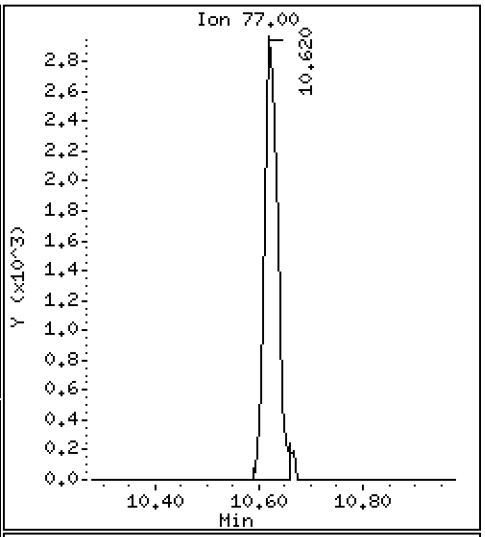
Column phase: ZB-5msi

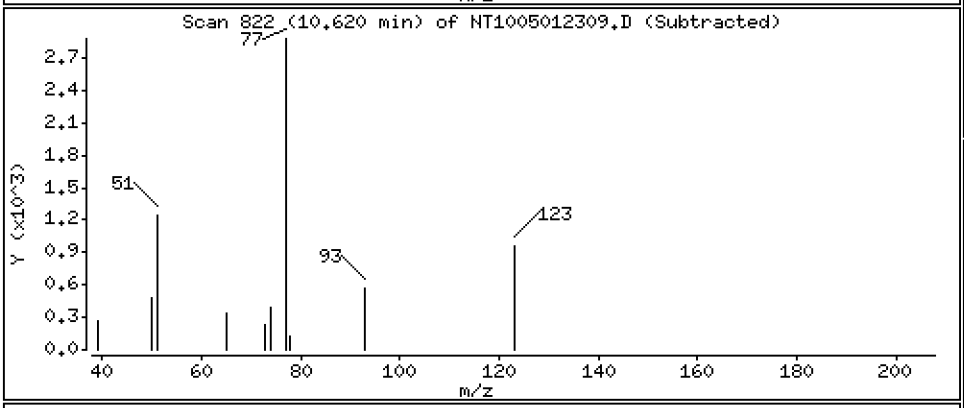
Column diameter: 0.25

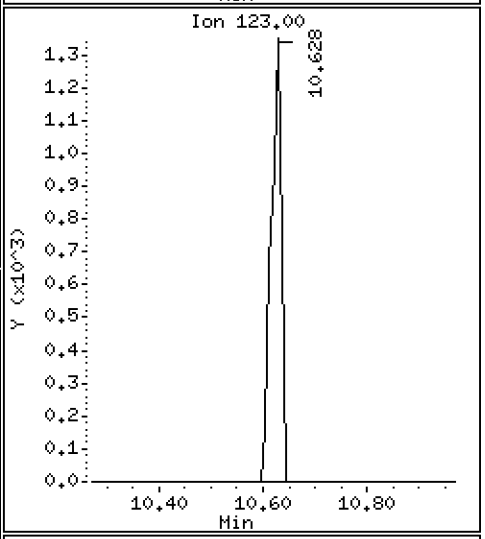
19 Nitrobenzene

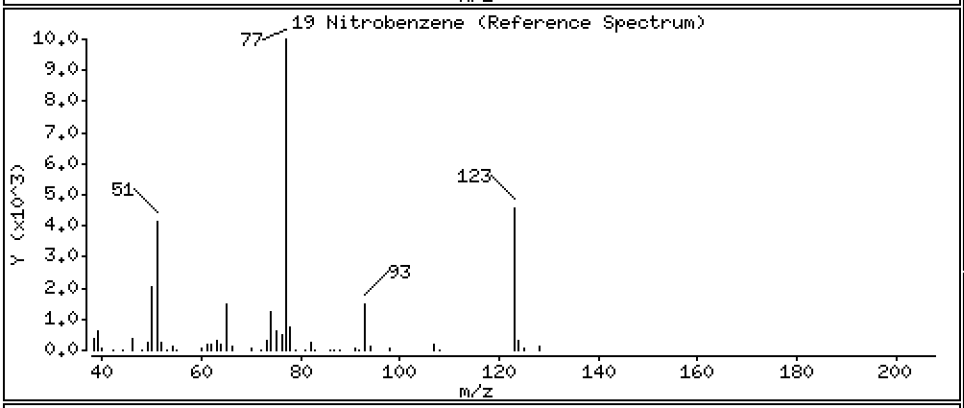
Concentration: 0.09110 ug/mL

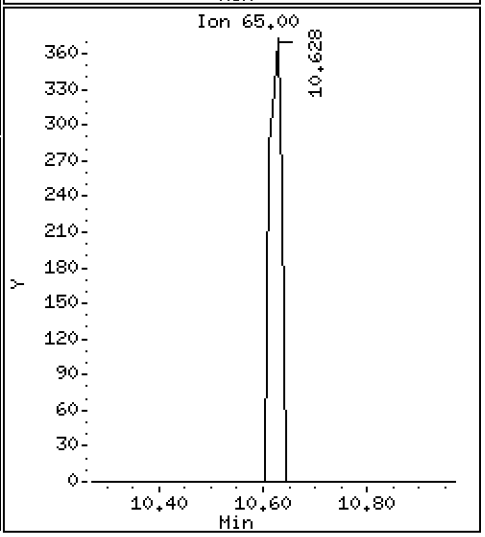


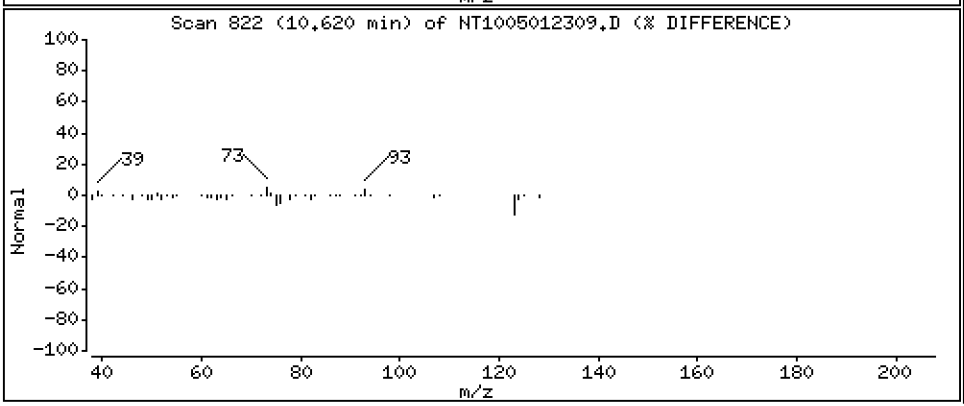












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

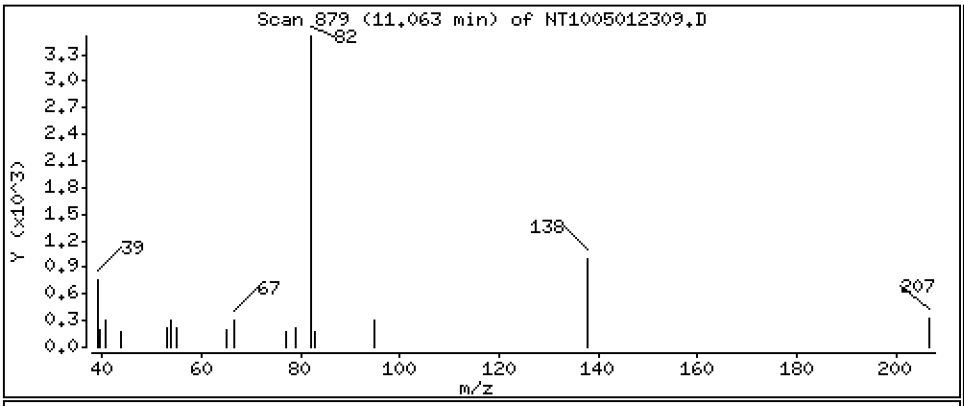
Operator: VTS

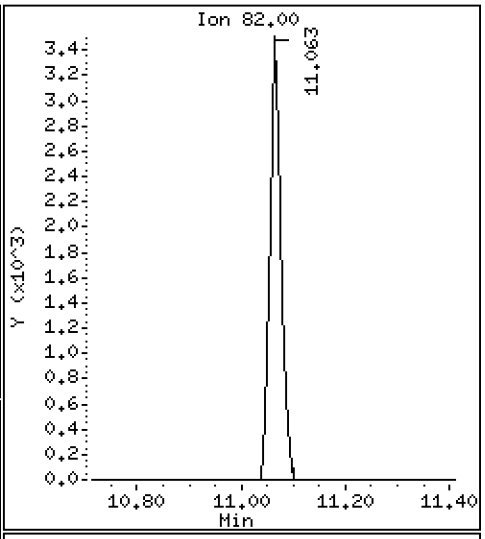
Column phase: ZB-5msi

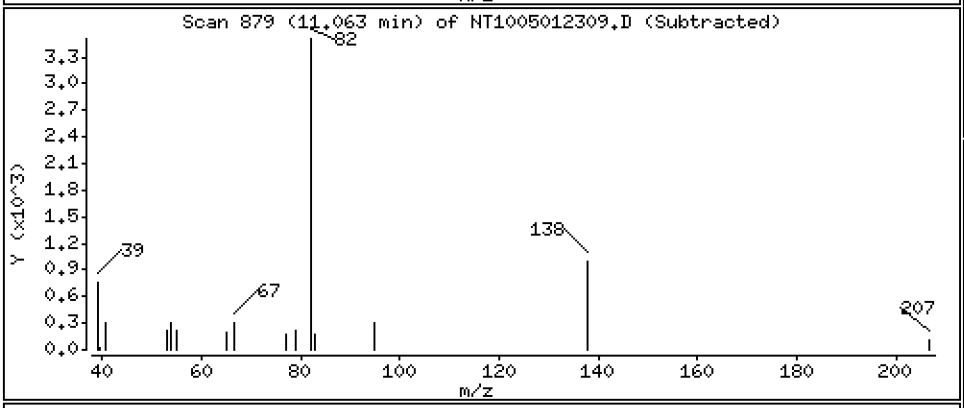
Column diameter: 0.25

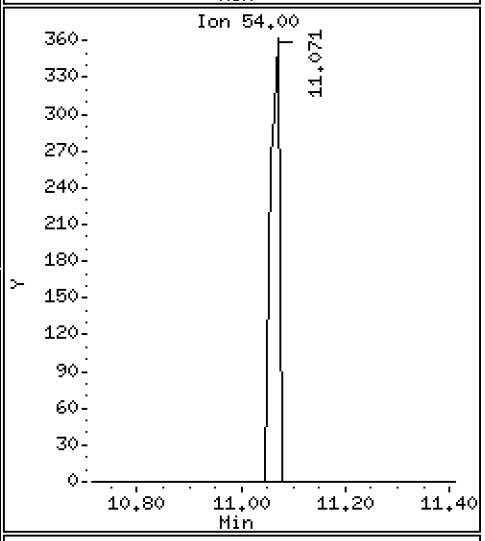
20 Isophorone

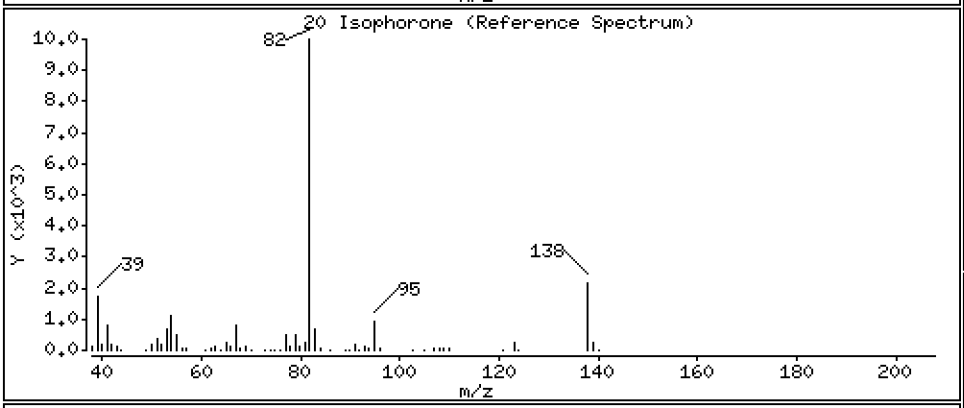
Concentration: 0.07755 ug/mL

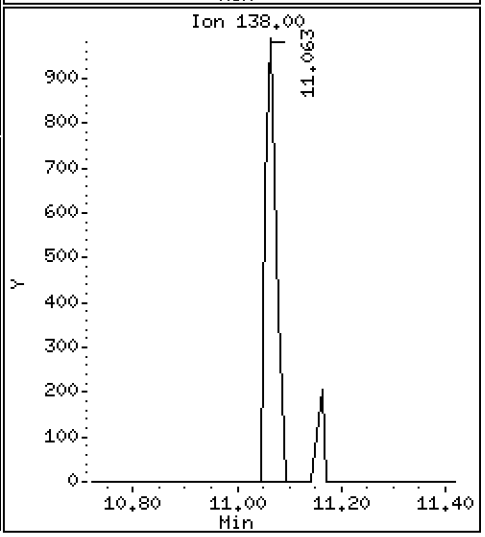


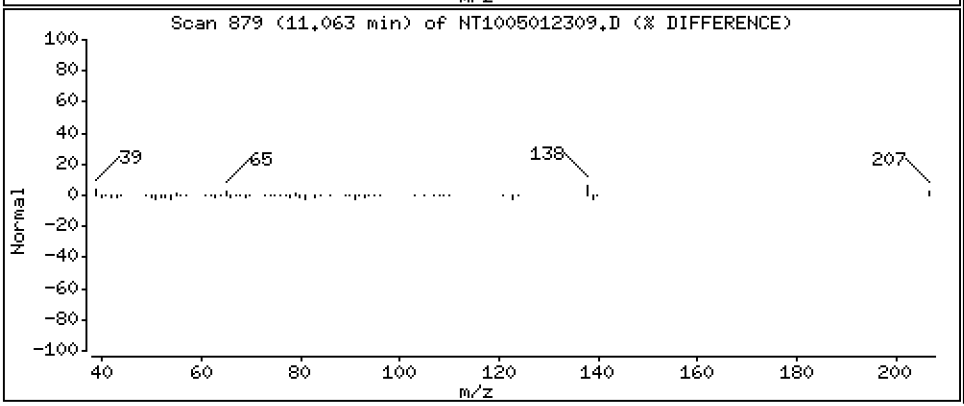












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

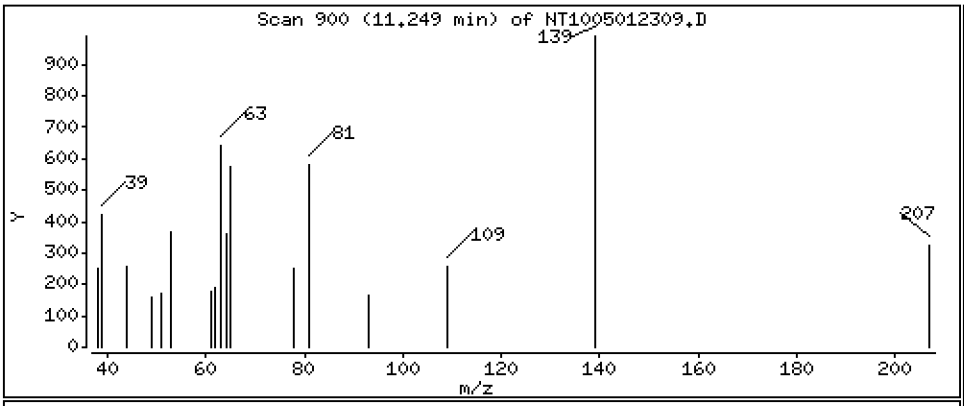
Operator: VTS

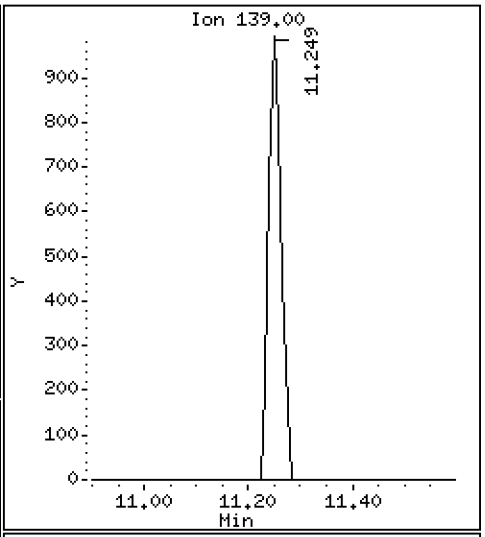
Column phase: ZB-5msi

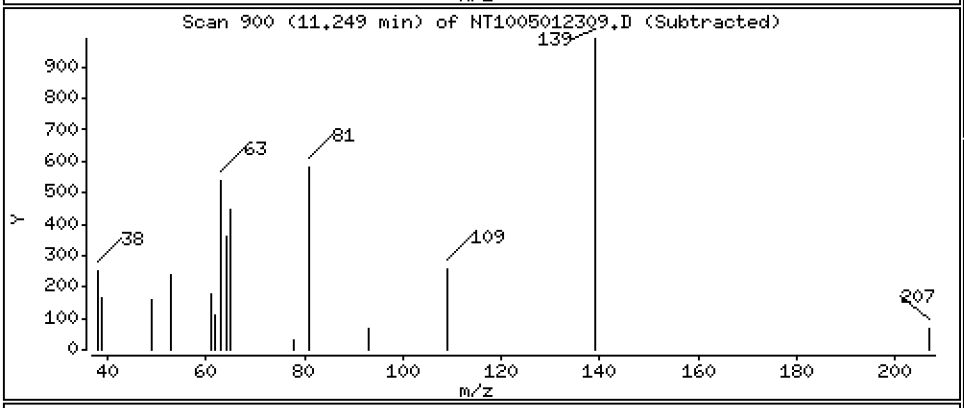
Column diameter: 0.25

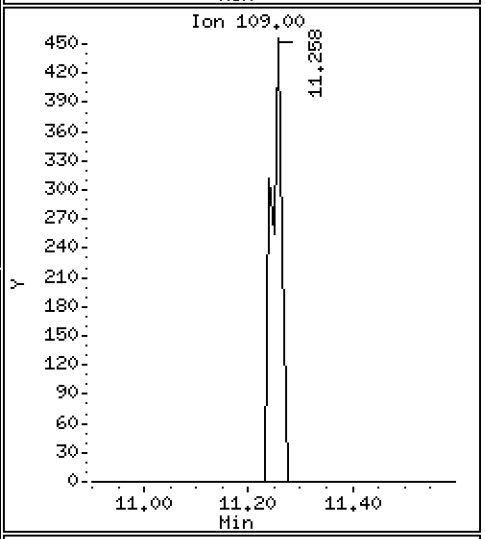
21 2-Nitrophenol

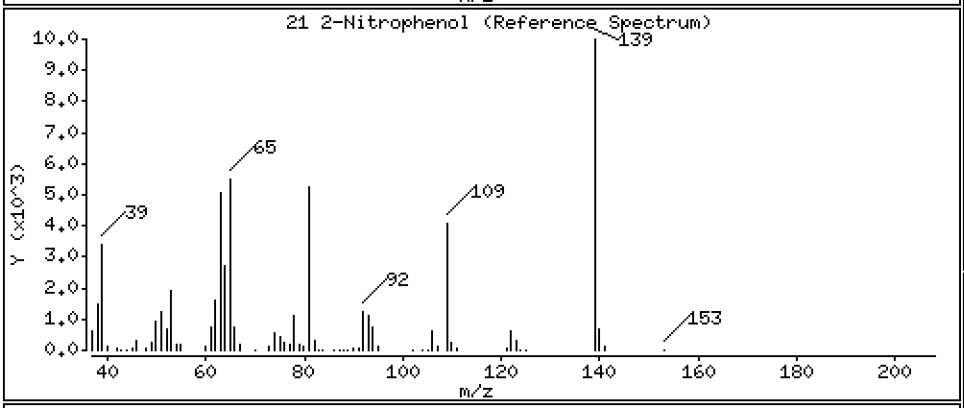
Concentration: 0.05621 ug/mL

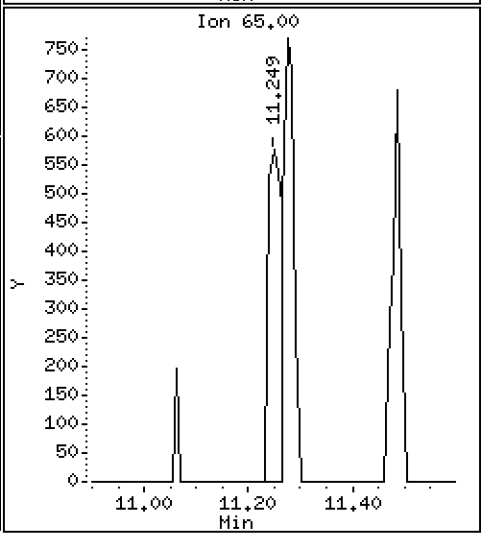


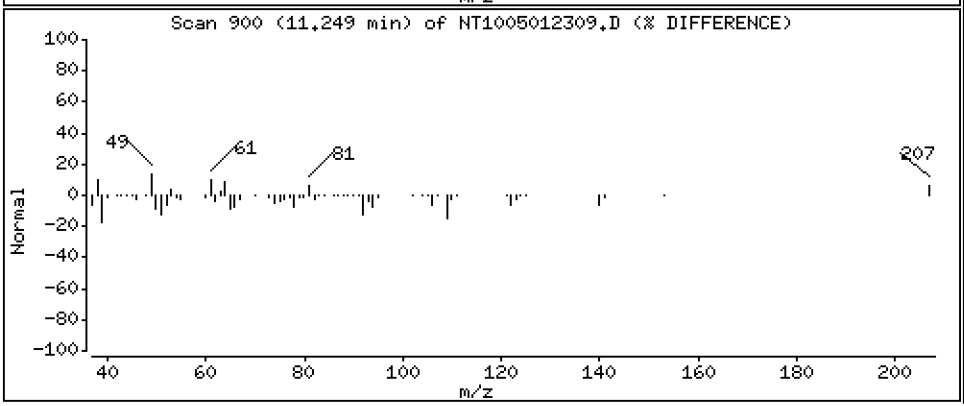












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

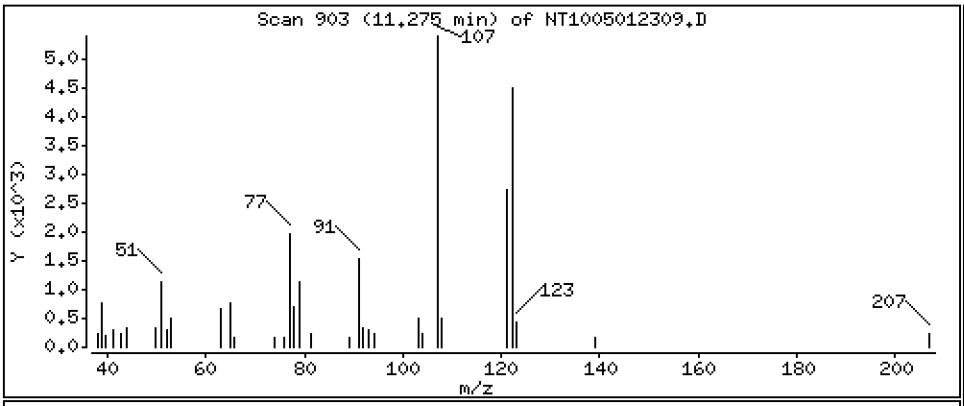
Operator: VTS

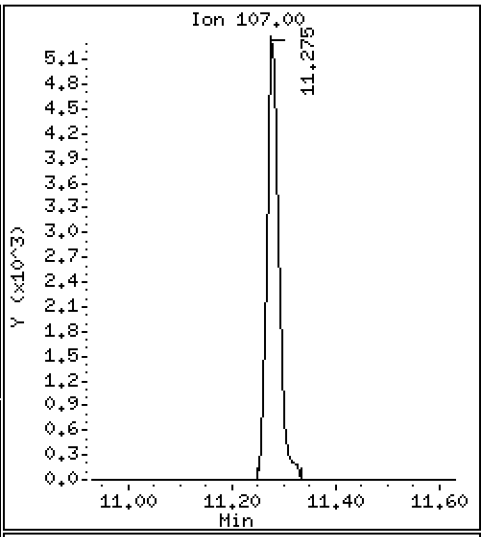
Column phase: ZB-5msi

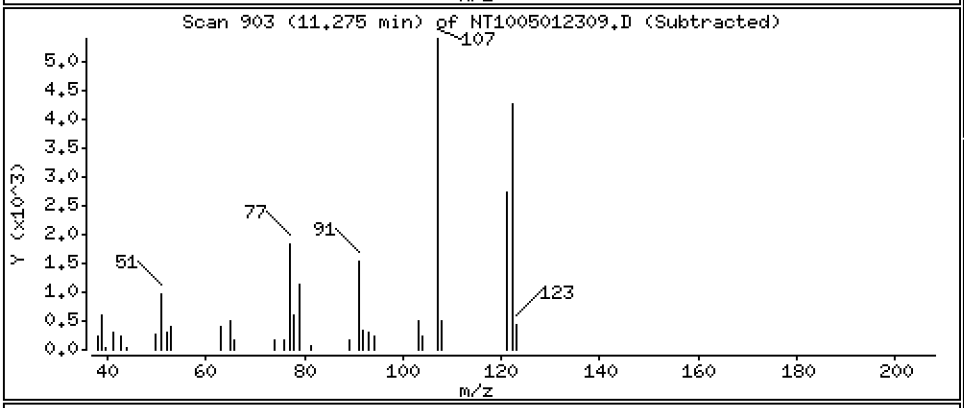
Column diameter: 0.25

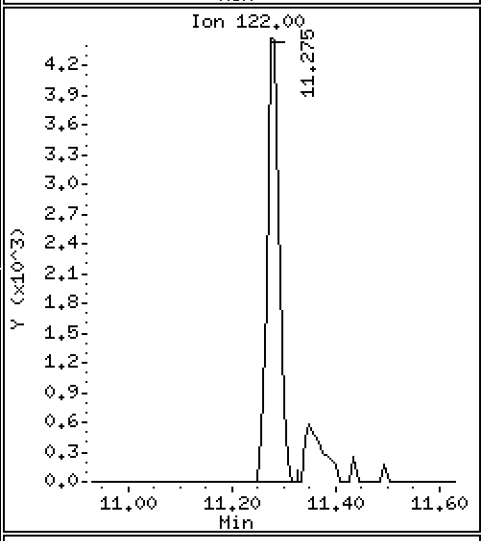
22 2,4-Dimethylphenol

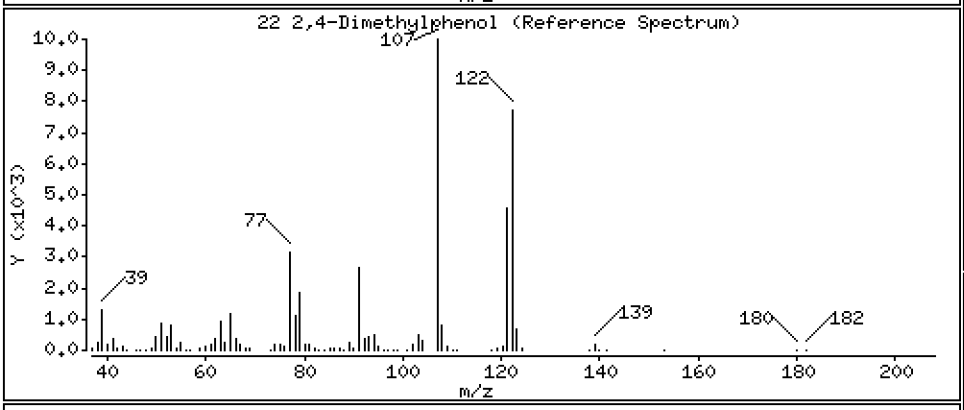
Concentration: 0.1661 ug/mL

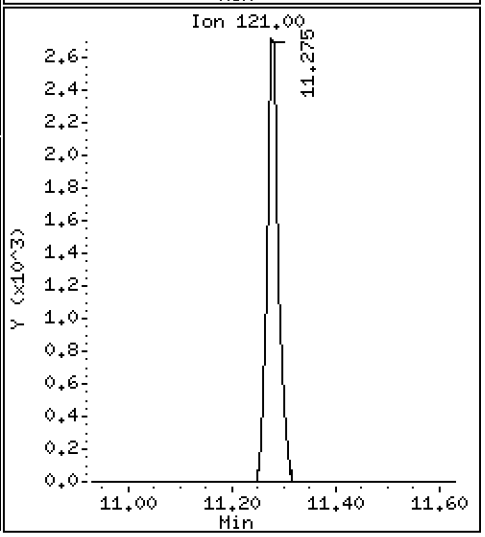


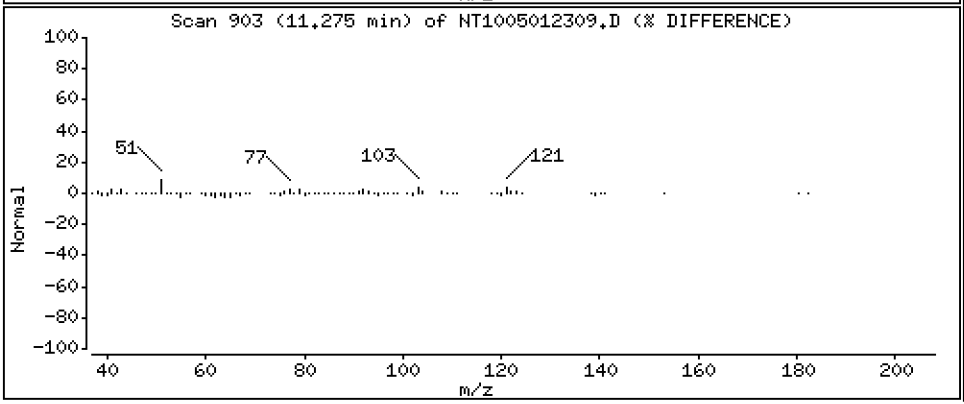












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

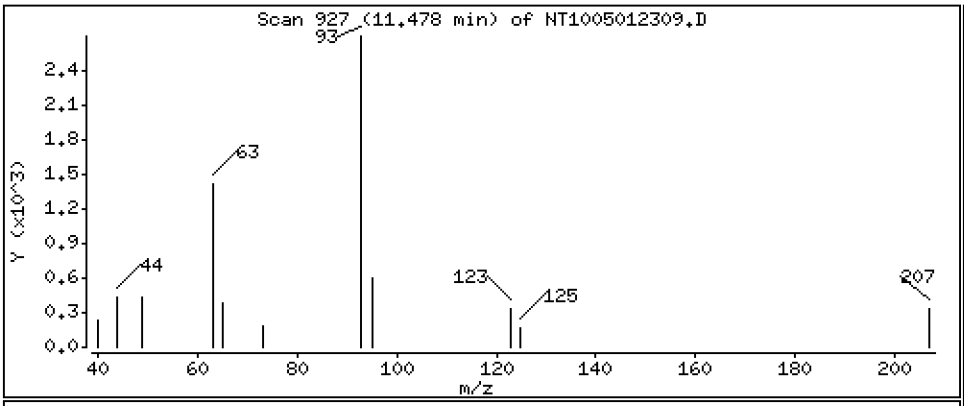
Operator: VTS

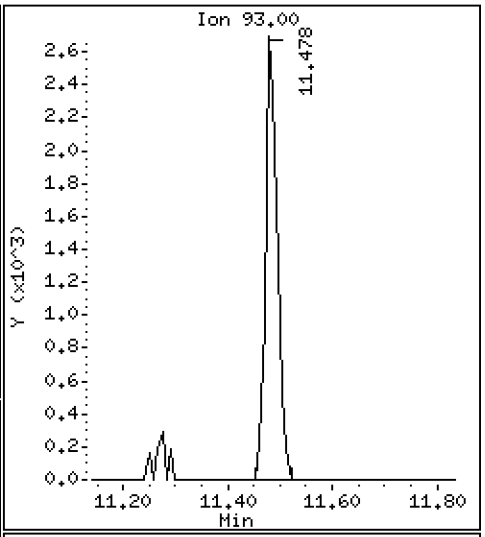
Column phase: ZB-5msi

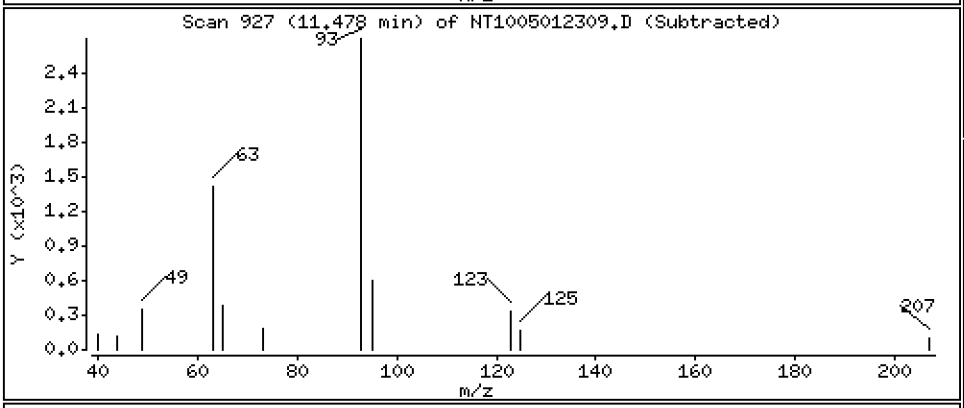
Column diameter: 0.25

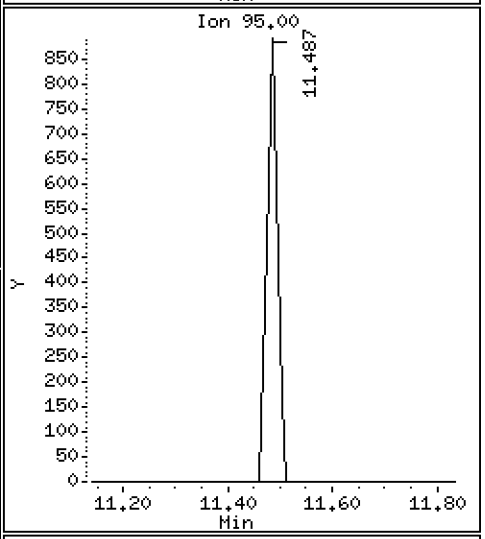
23 Bis(2-Chloroethoxy)methane

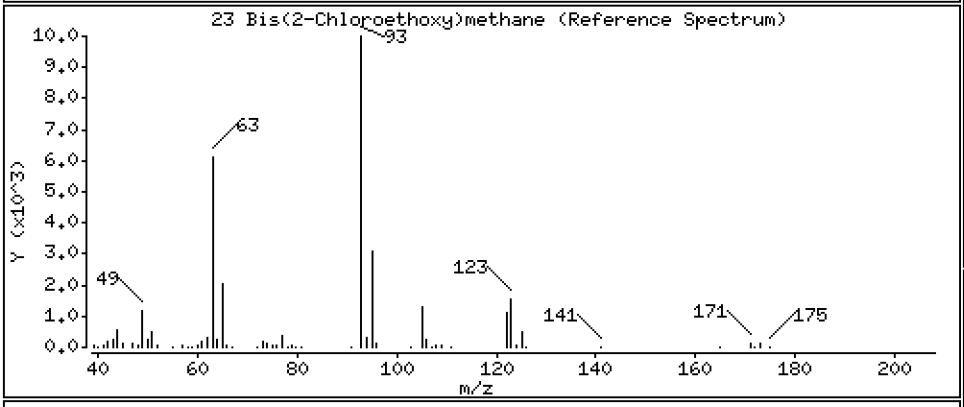
Concentration: 0.09938 ug/mL

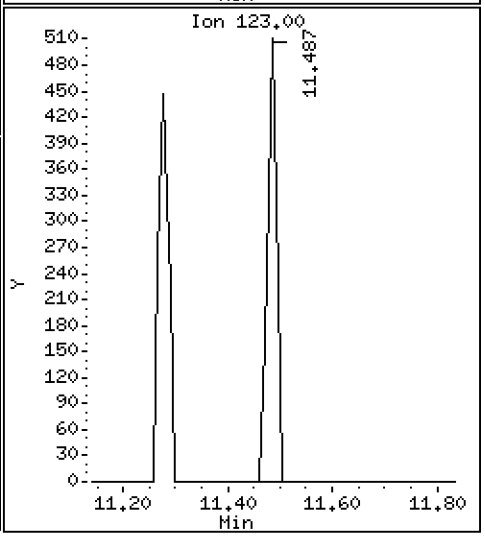


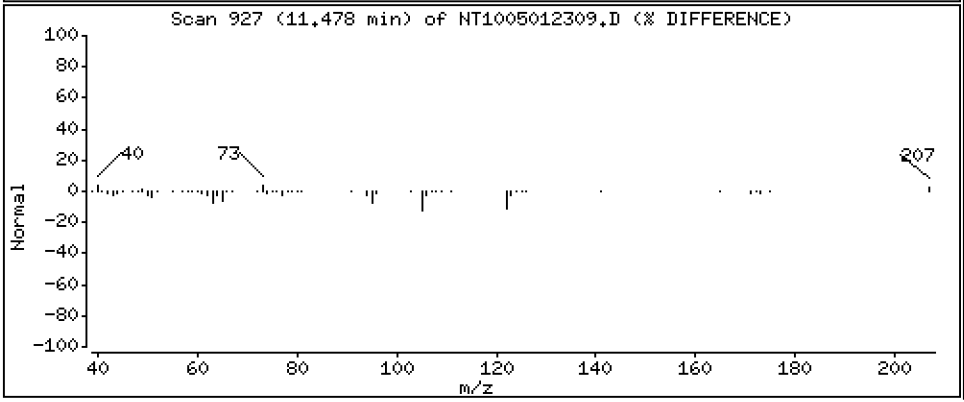












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

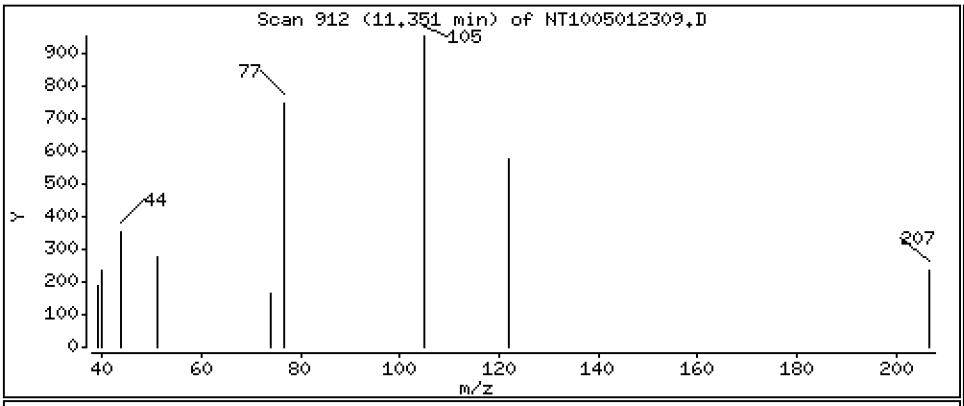
Operator: VTS

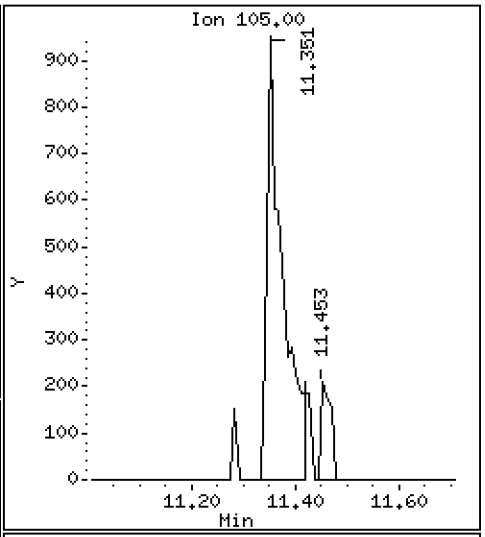
Column phase: ZB-5msi

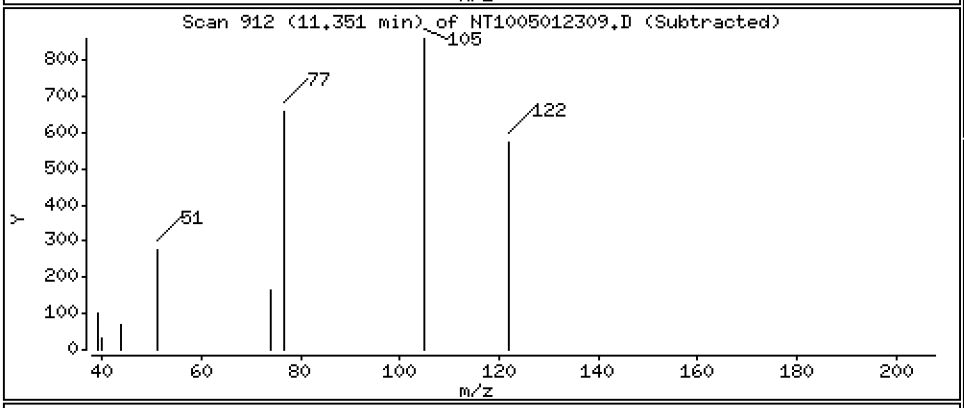
Column diameter: 0.25

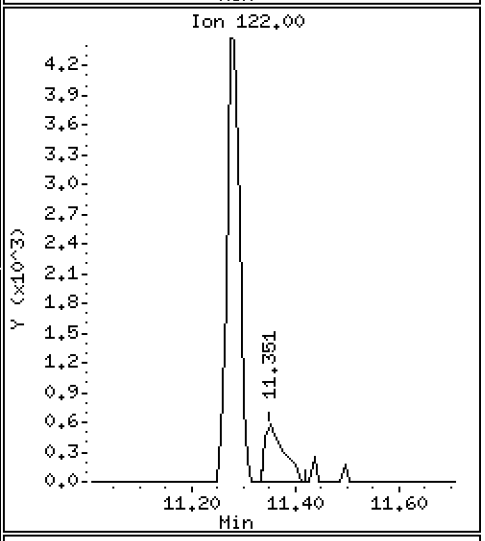
24 Benzoic acid

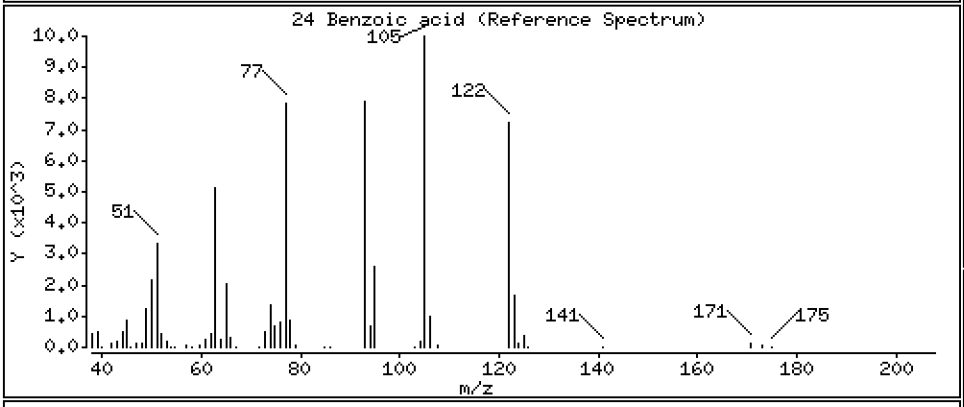
Concentration: 0.05332 ug/mL

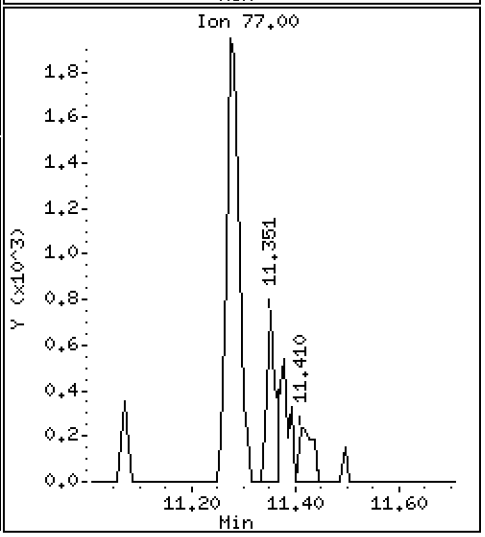


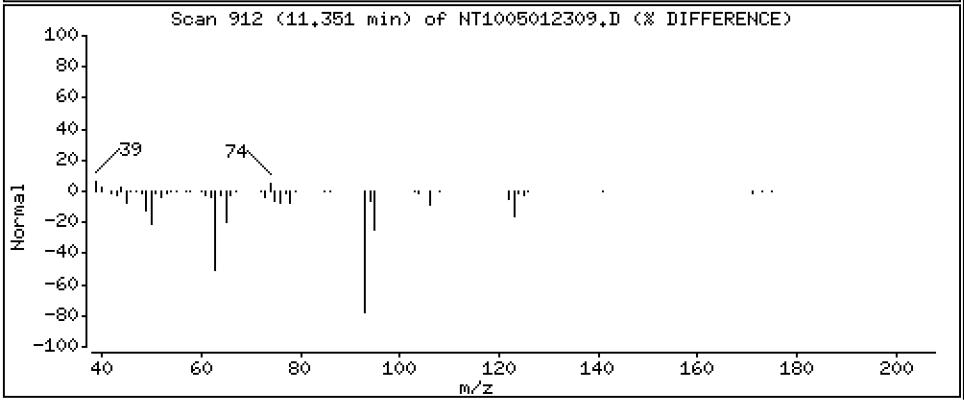












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

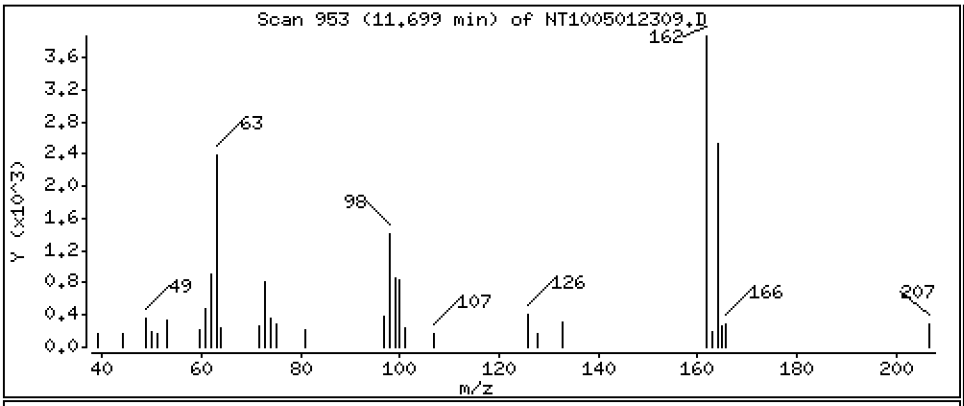
Operator: VTS

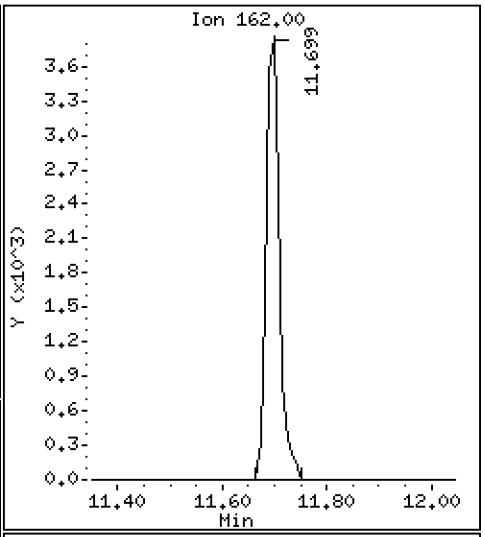
Column phase: ZB-5msi

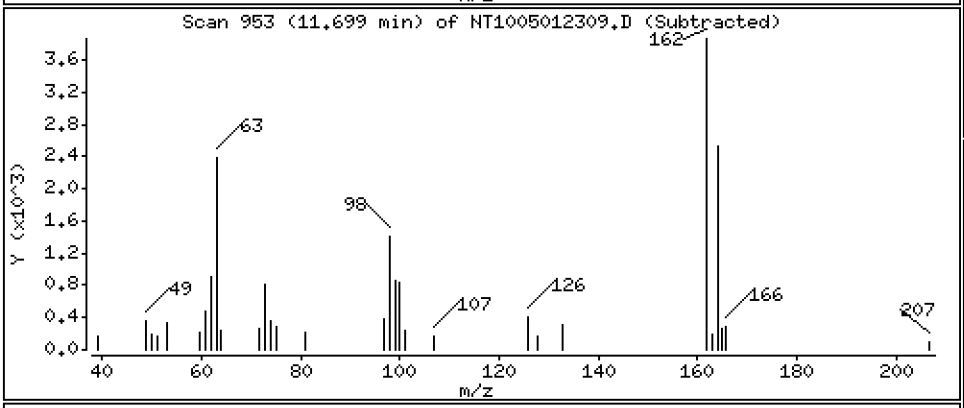
Column diameter: 0.25

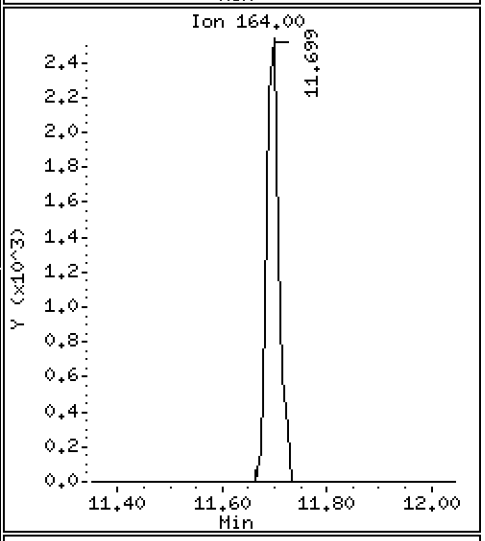
25 2,4-Dichlorophenol

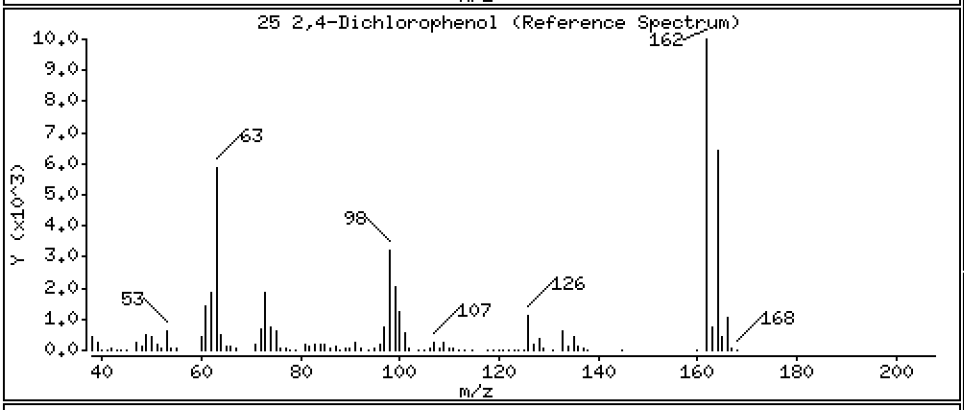
Concentration: 0.1603 ug/mL

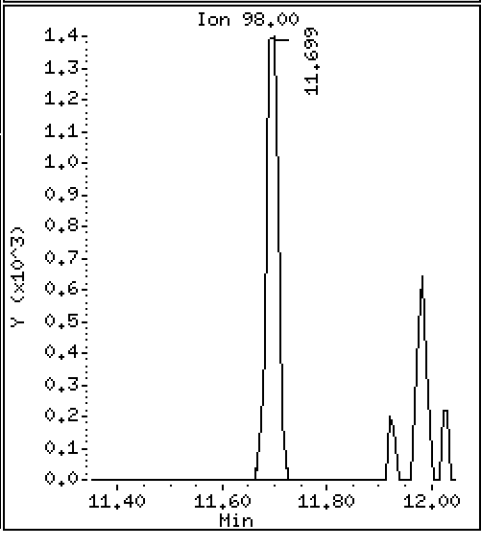


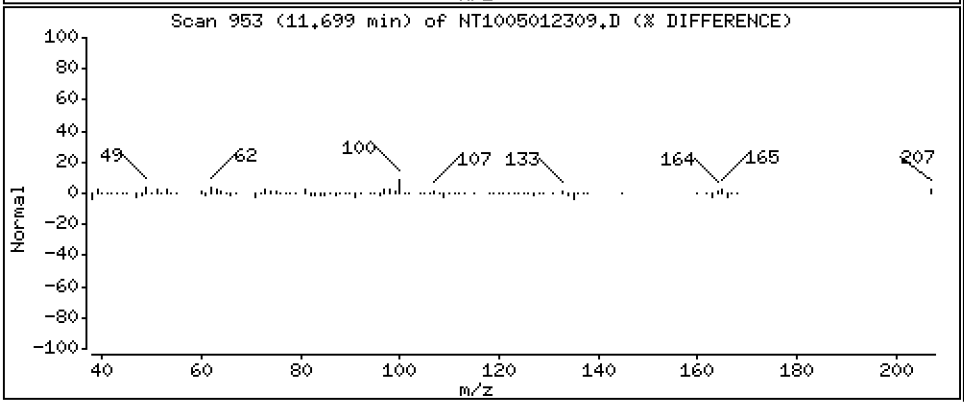












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

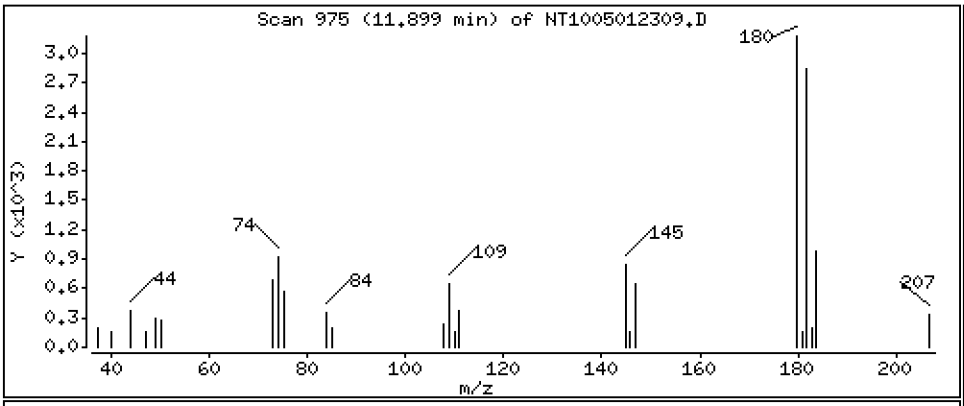
Operator: VTS

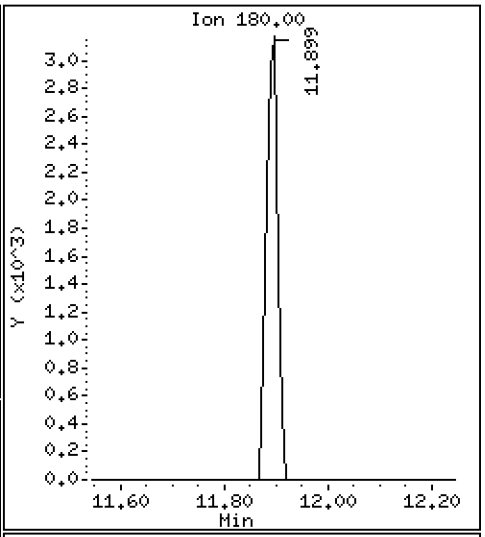
Column phase: ZB-5msi

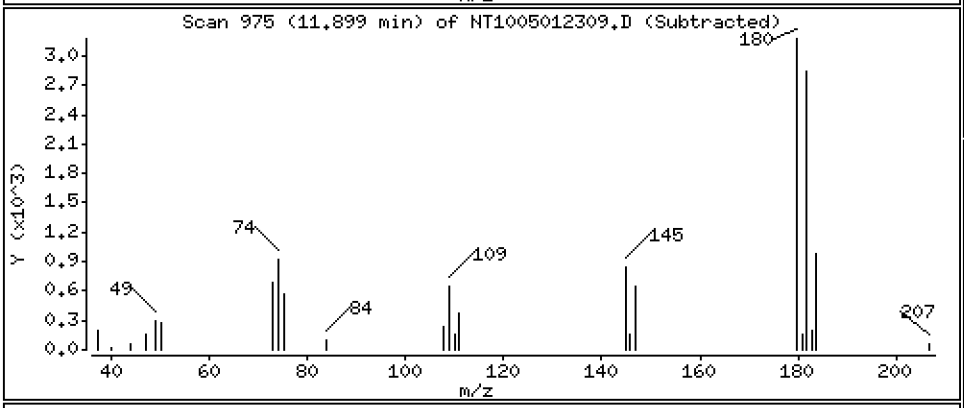
Column diameter: 0.25

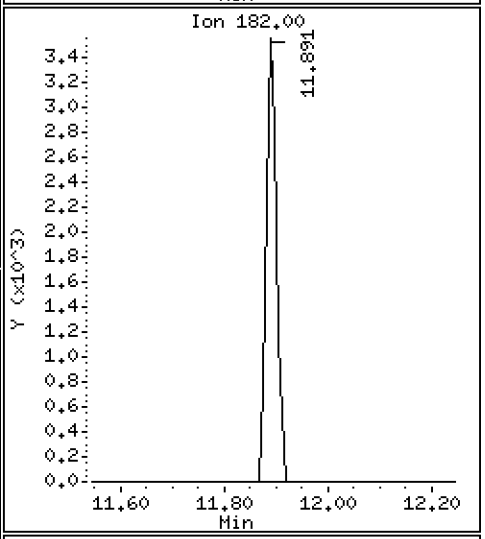
26 1,2,4-Trichlorobenzene

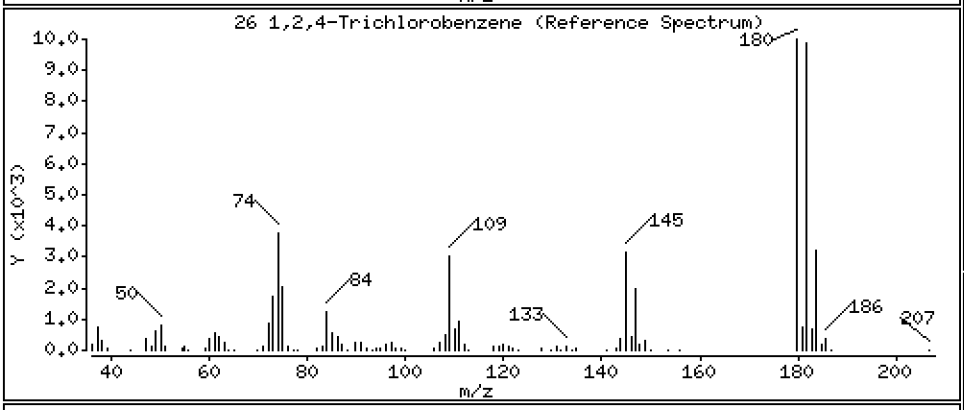
Concentration: 0.08376 ug/mL

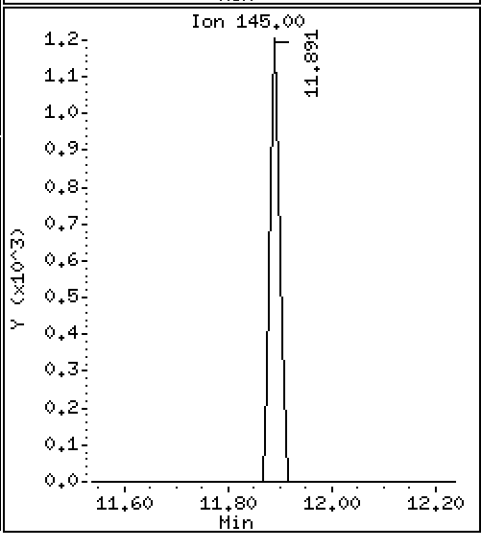


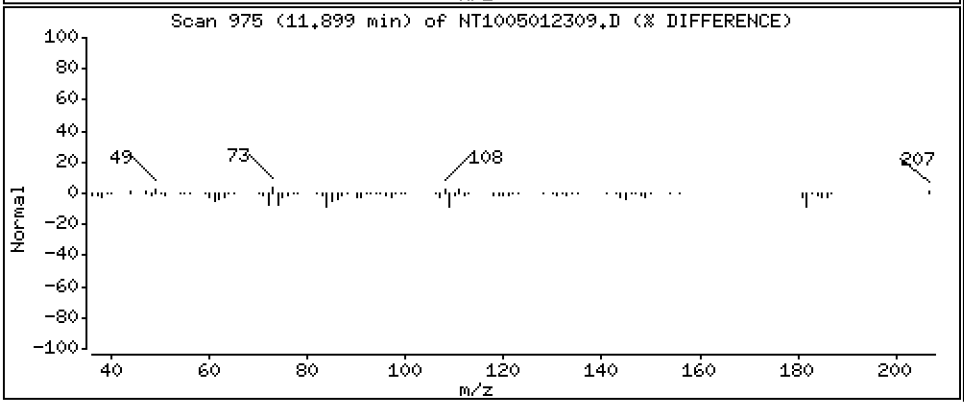












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

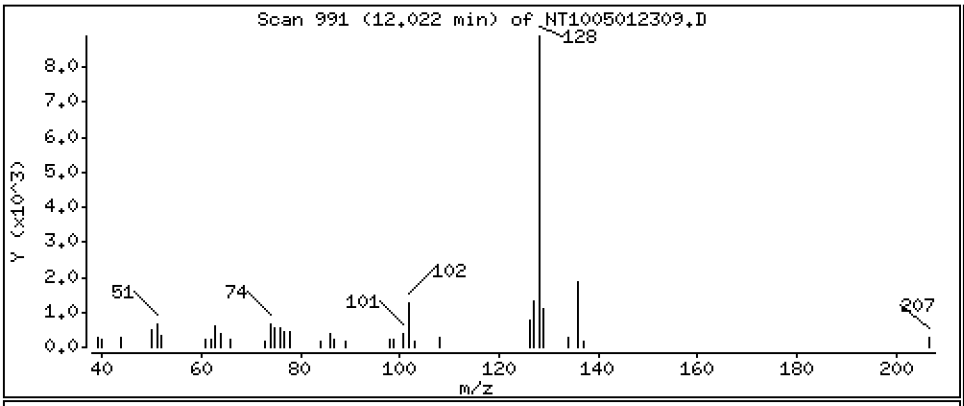
Operator: VTS

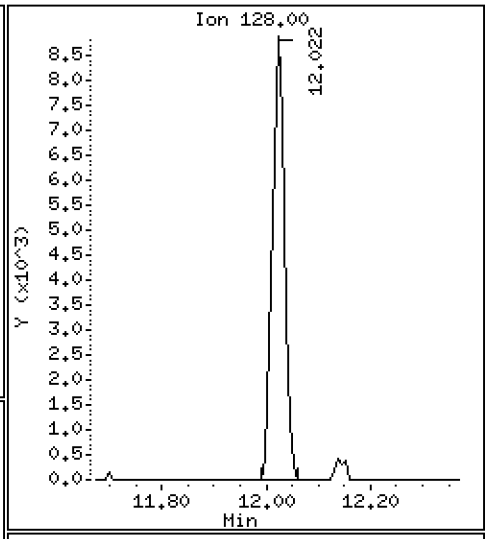
Column phase: ZB-5msi

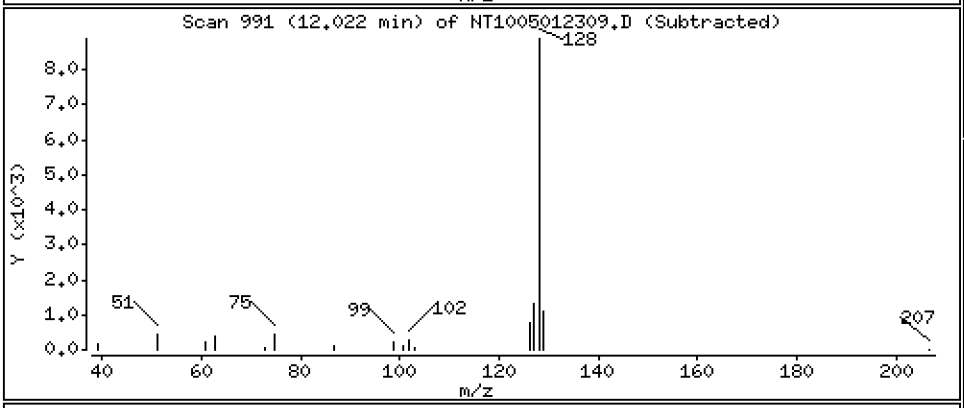
Column diameter: 0.25

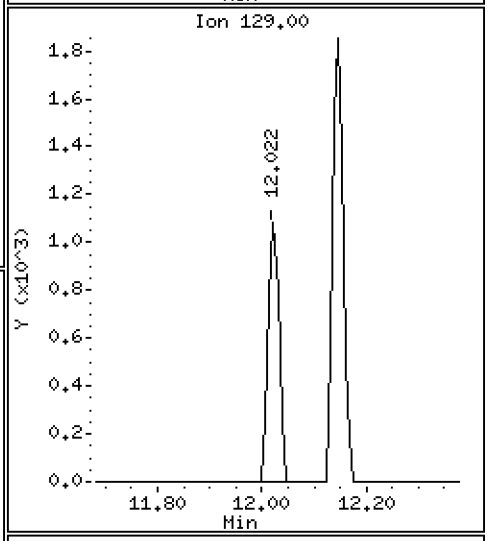
28 Naphthalene

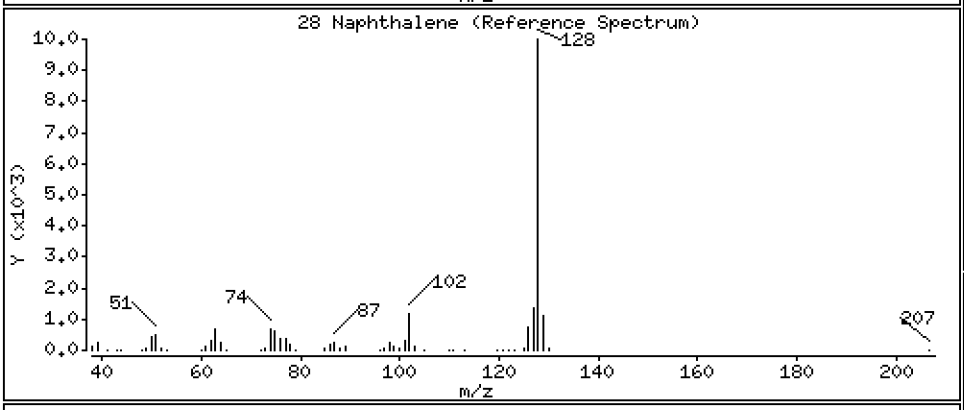
Concentration: 0.09813 ug/mL

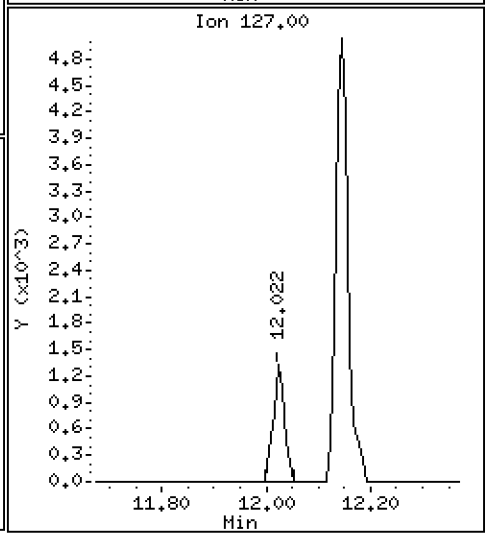


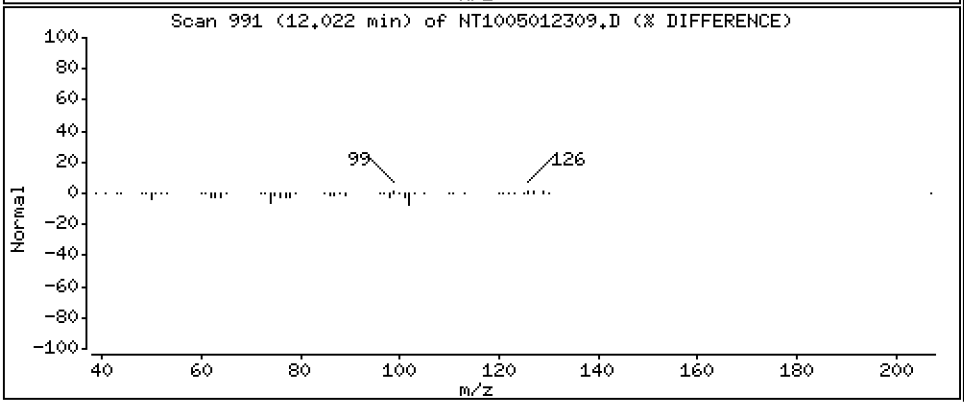












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

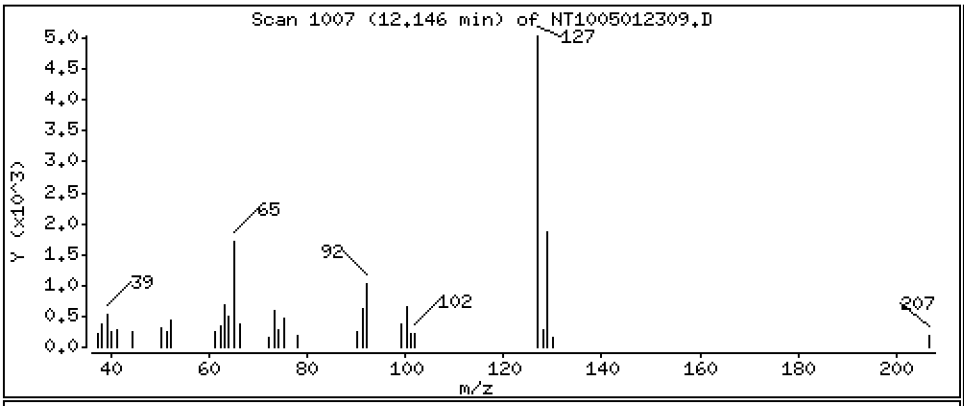
Operator: VTS

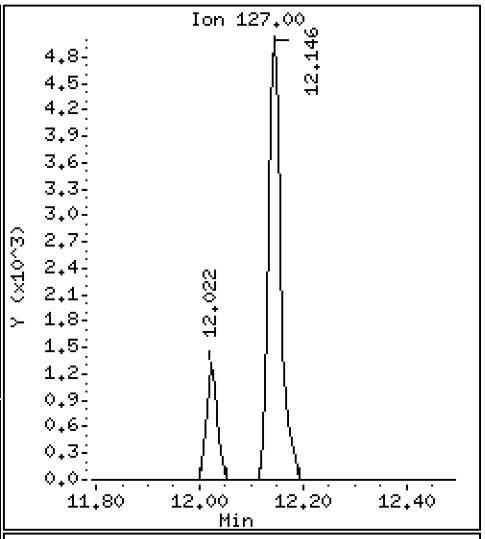
Column phase: ZB-5msi

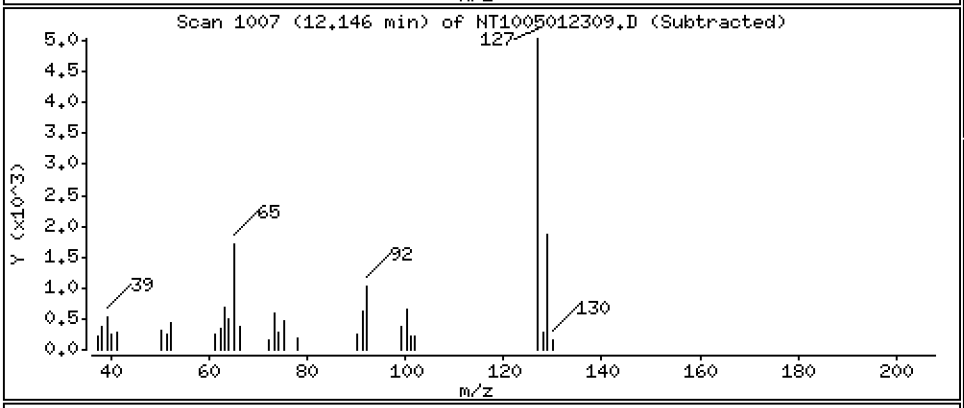
Column diameter: 0.25

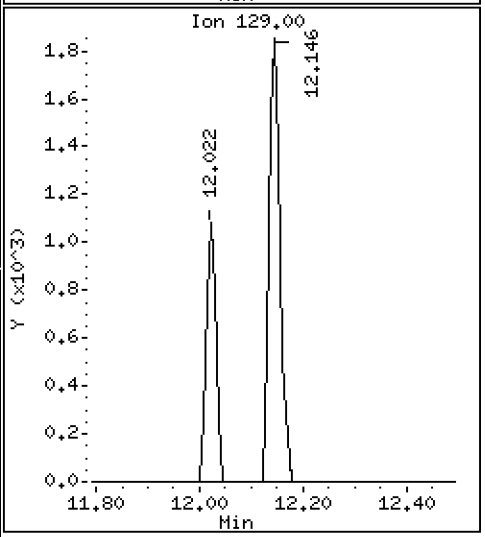
29 4-Chloroaniline

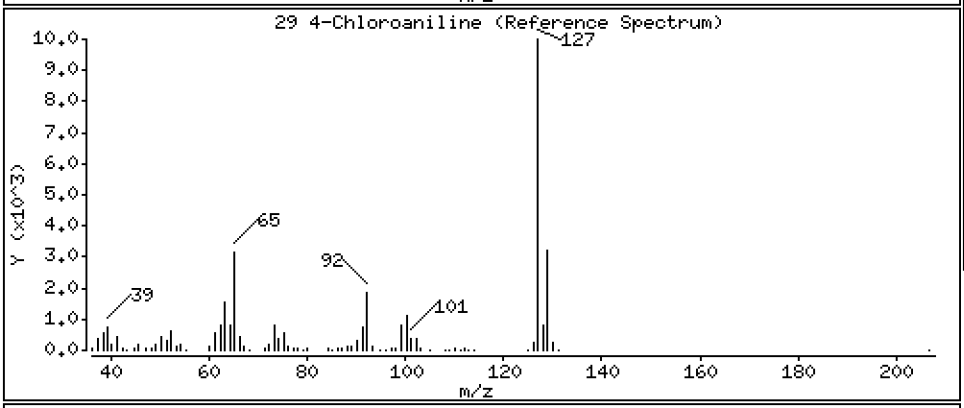
Concentration: 0.1614 ug/mL

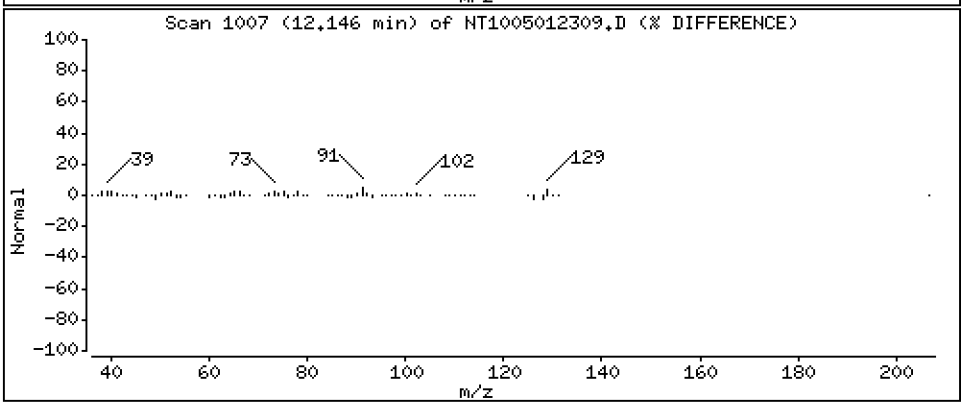












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

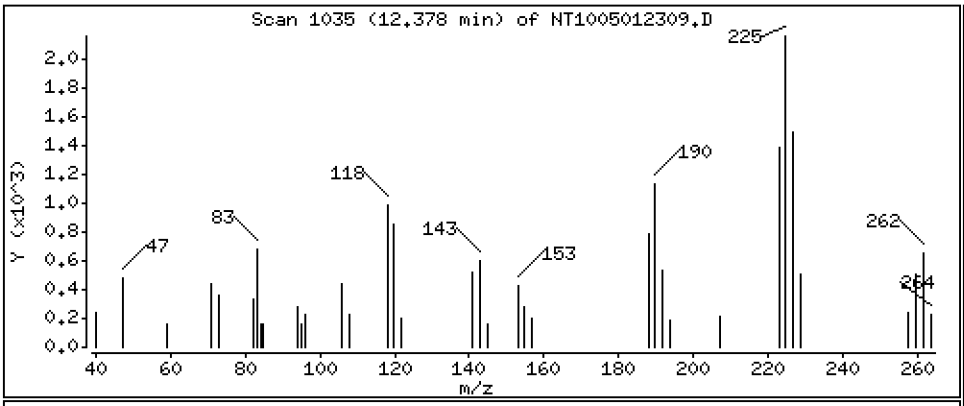
Operator: VTS

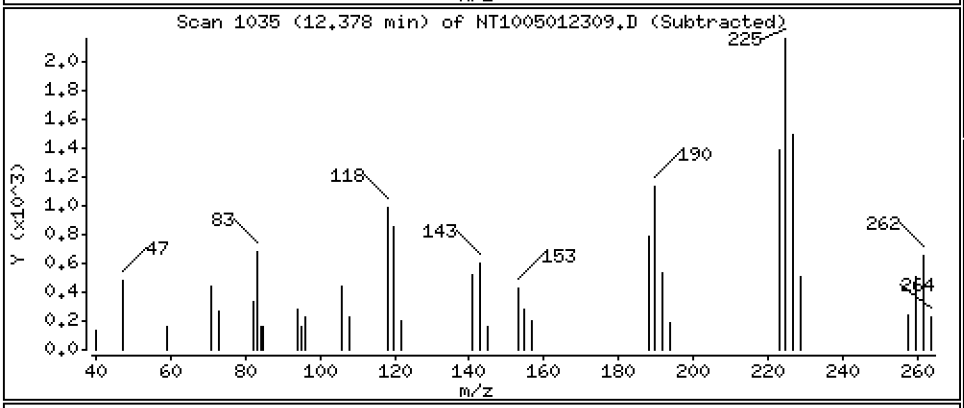
Column phase: ZB-5msi

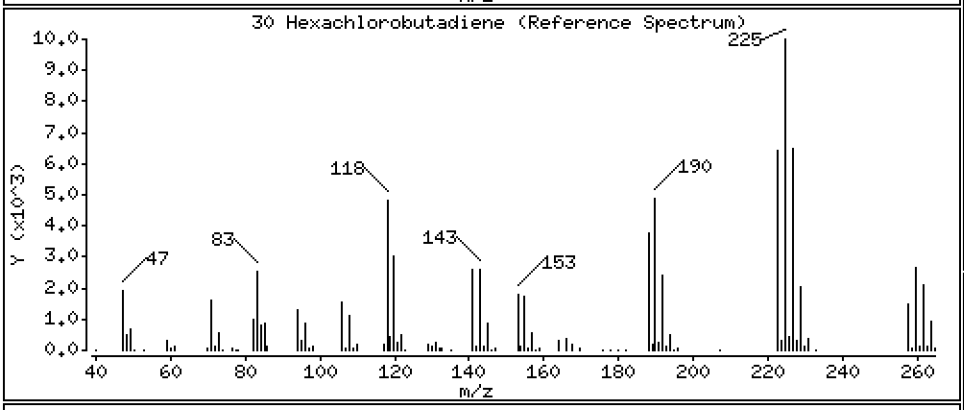
Column diameter: 0.25

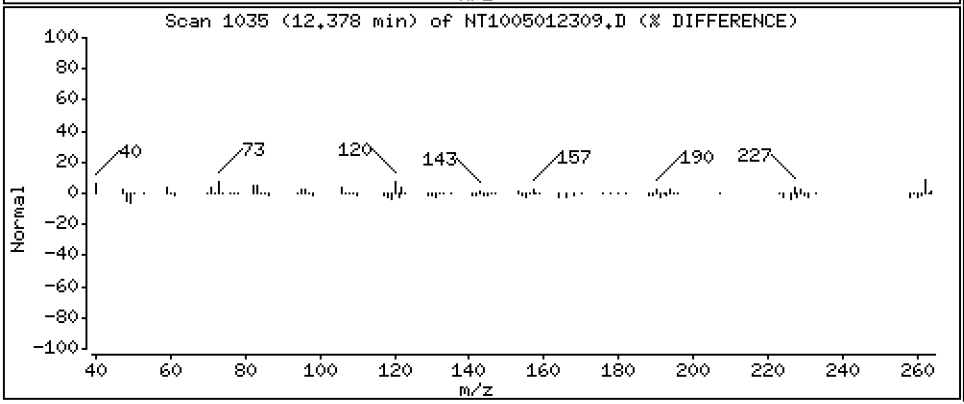
30 Hexachlorobutadiene

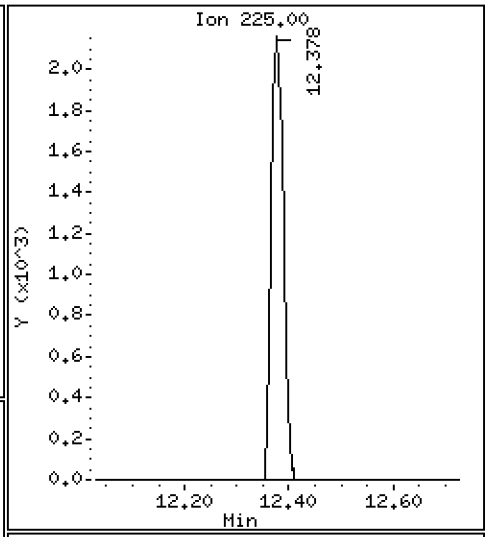
Concentration: 0.09745 ug/mL

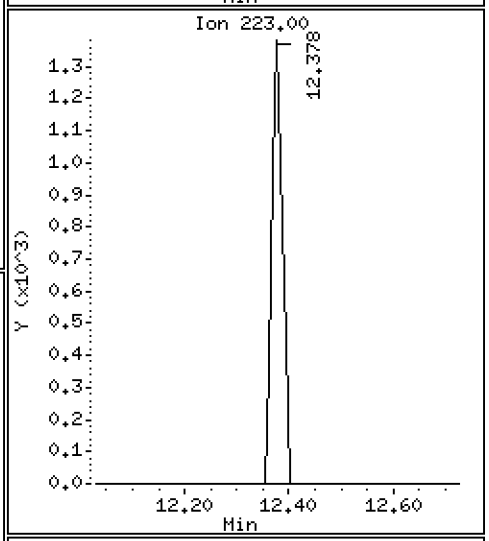


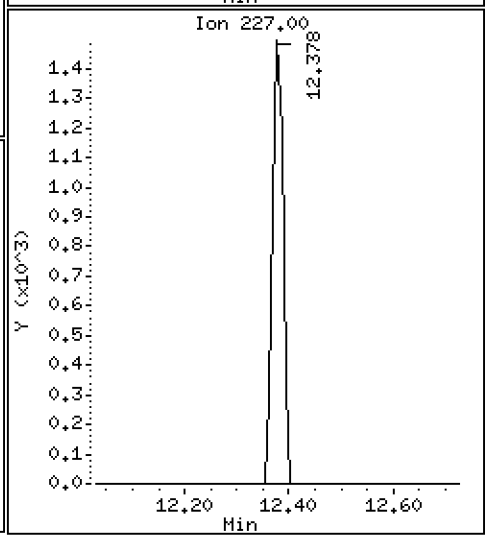












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

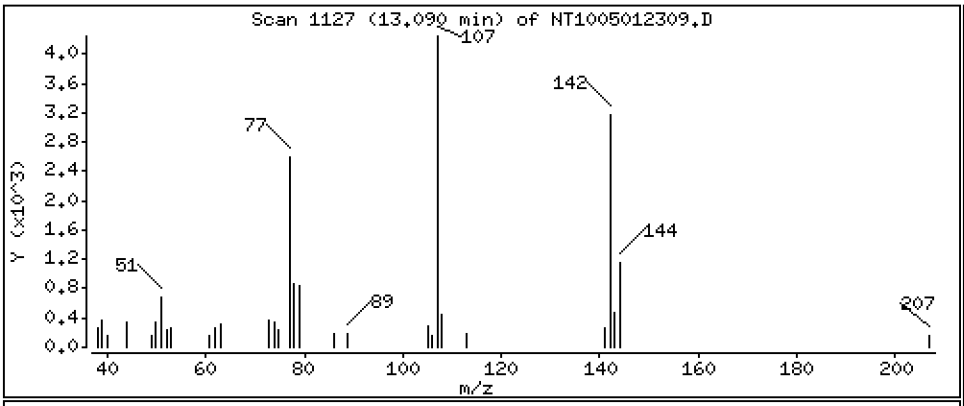
Operator: VTS

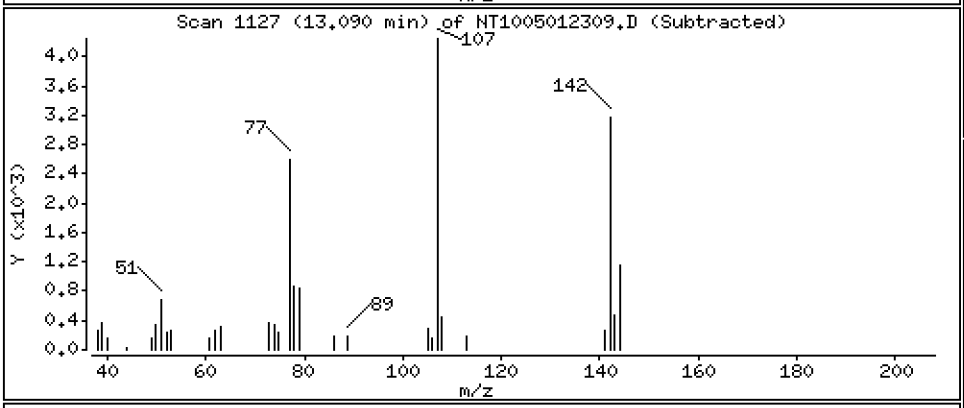
Column phase: ZB-5msi

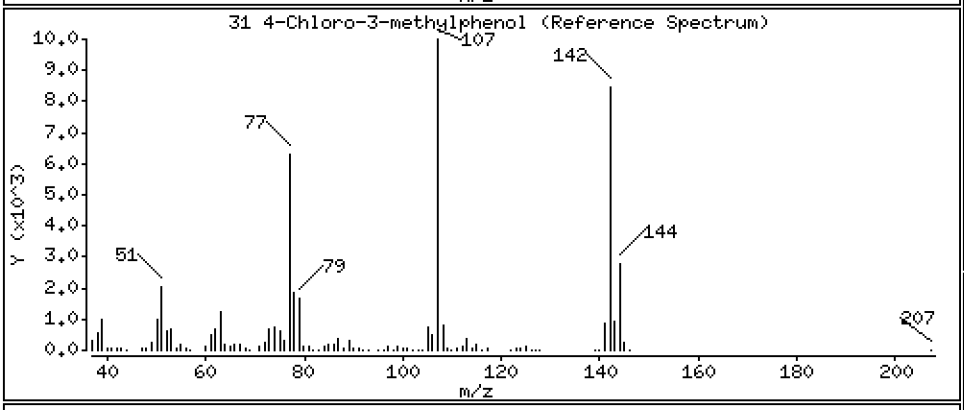
Column diameter: 0.25

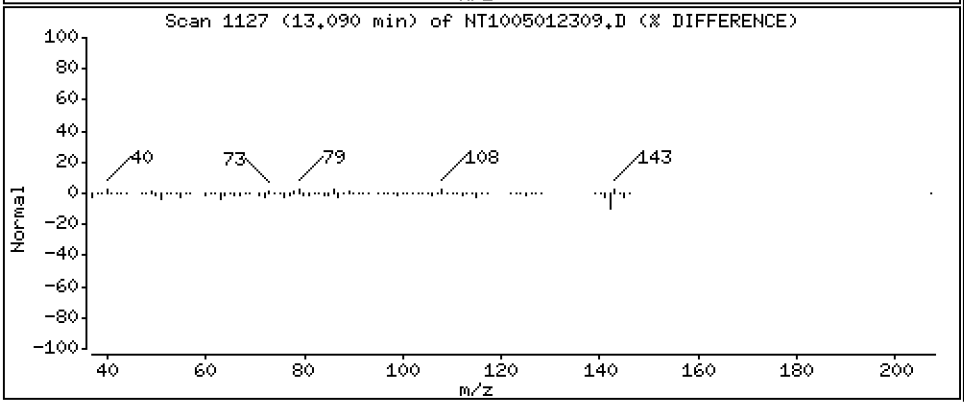
31 4-Chloro-3-methylphenol

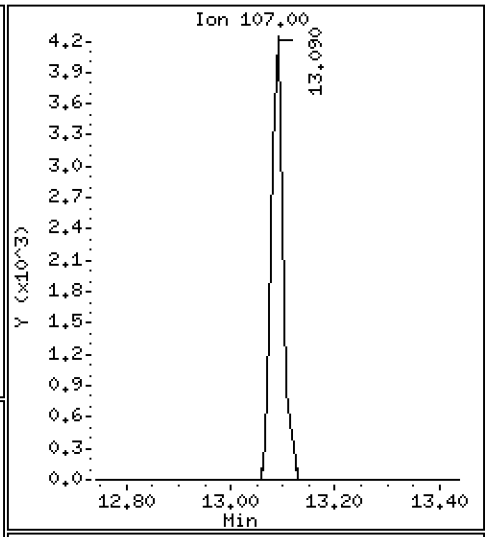
Concentration: 0.1346 ug/mL

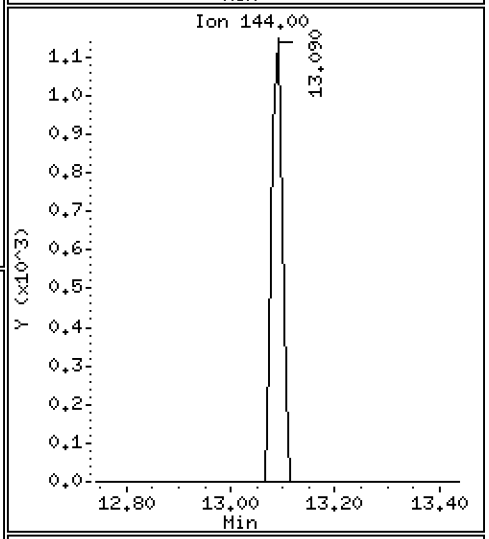


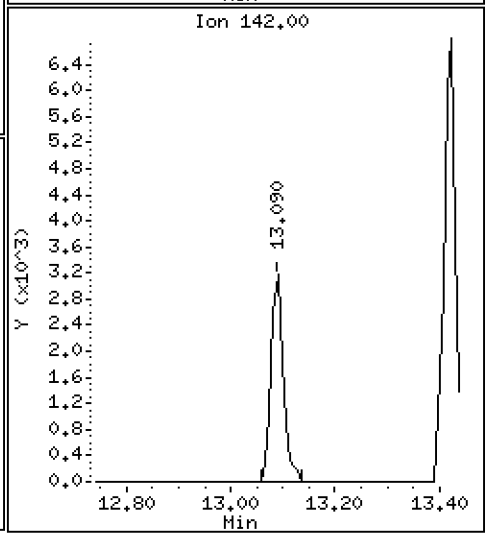












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

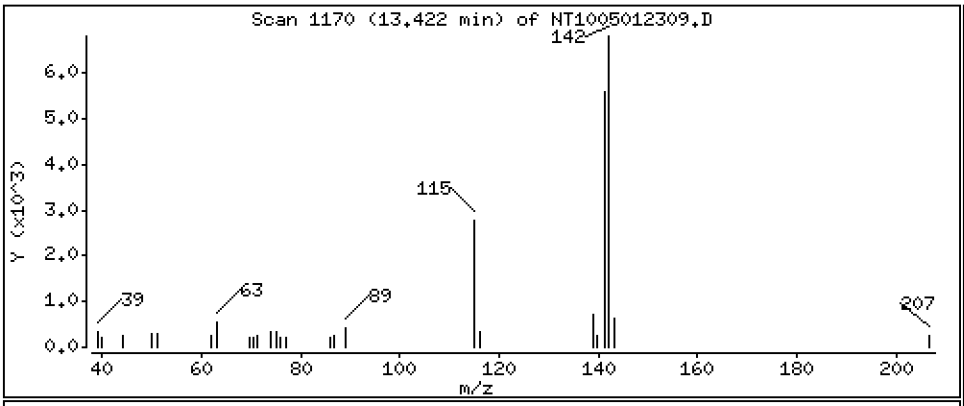
Operator: VTS

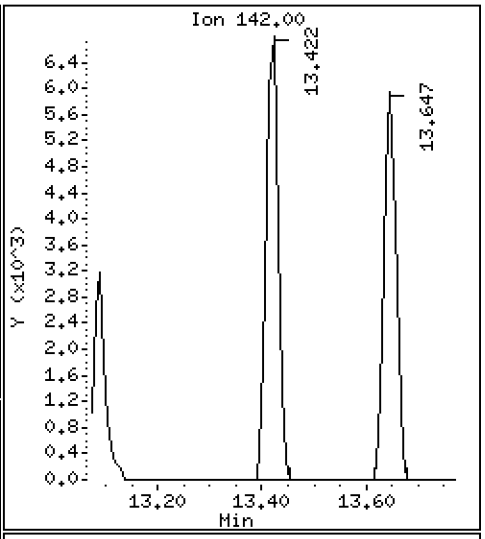
Column phase: ZB-5msi

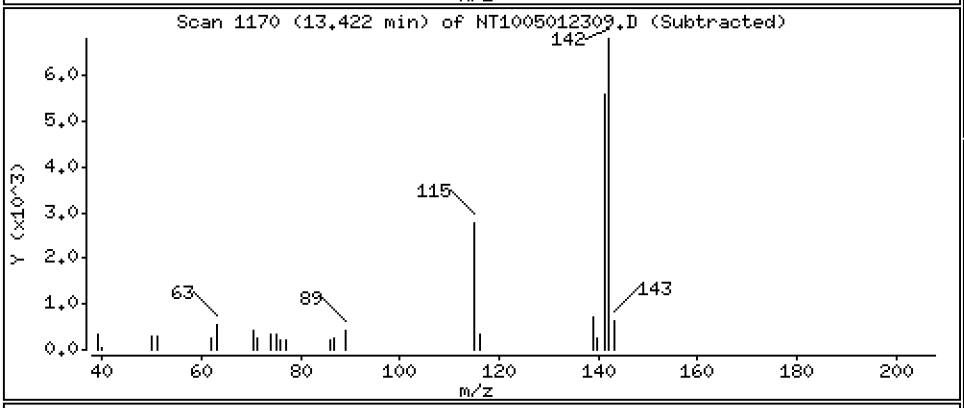
Column diameter: 0.25

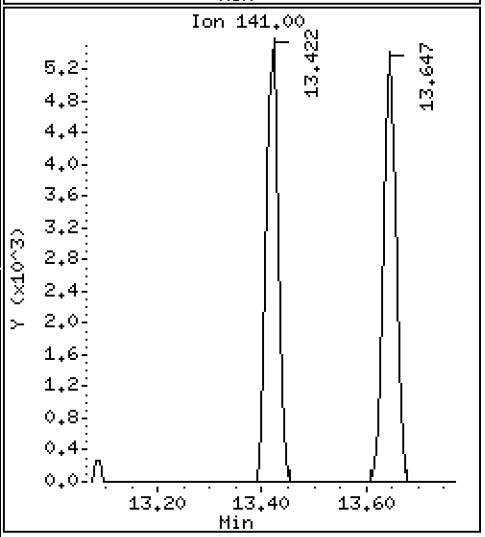
32 2-Methylnaphthalene

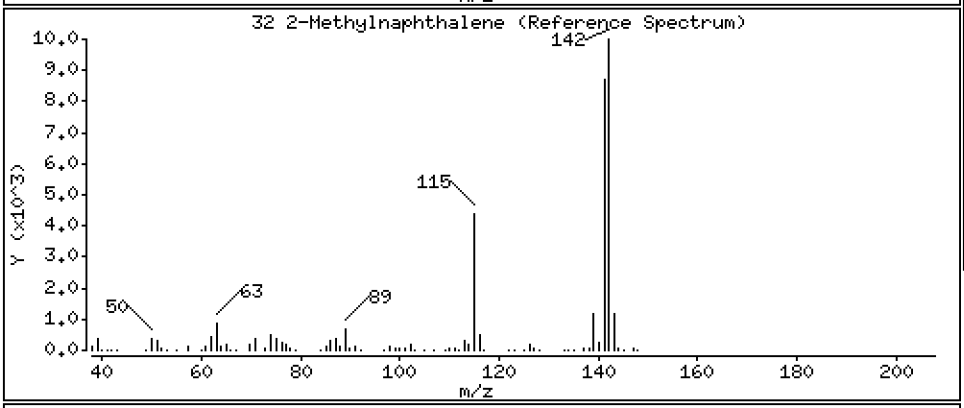
Concentration: 0.09585 ug/mL

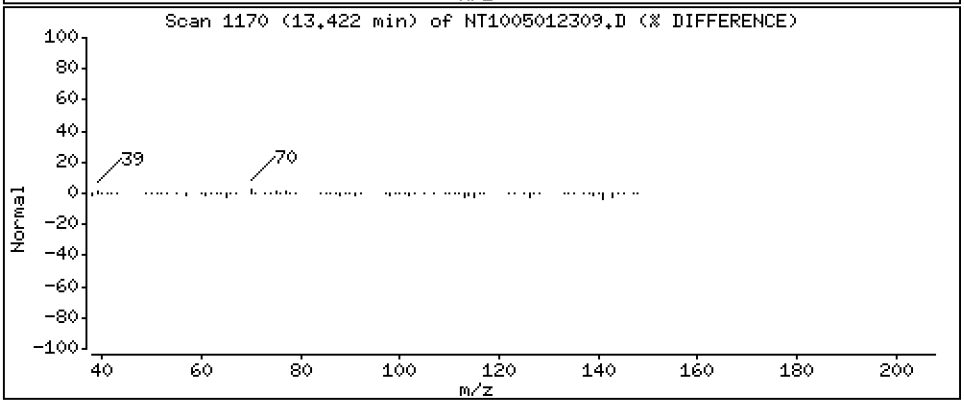












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

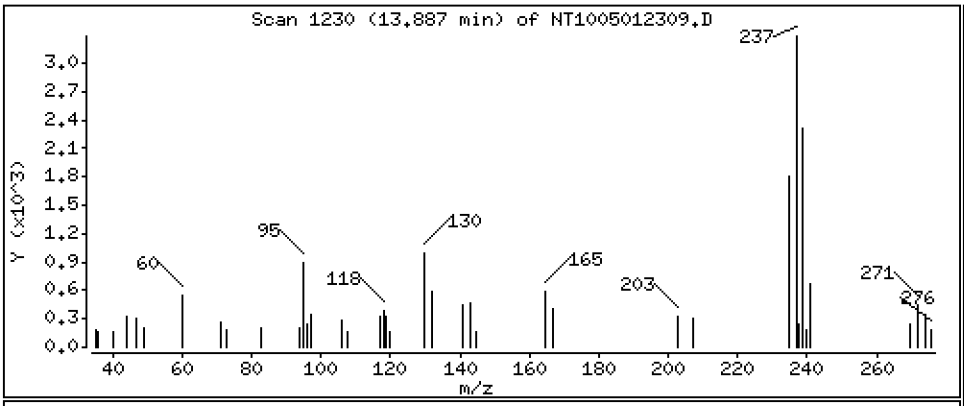
Operator: VTS

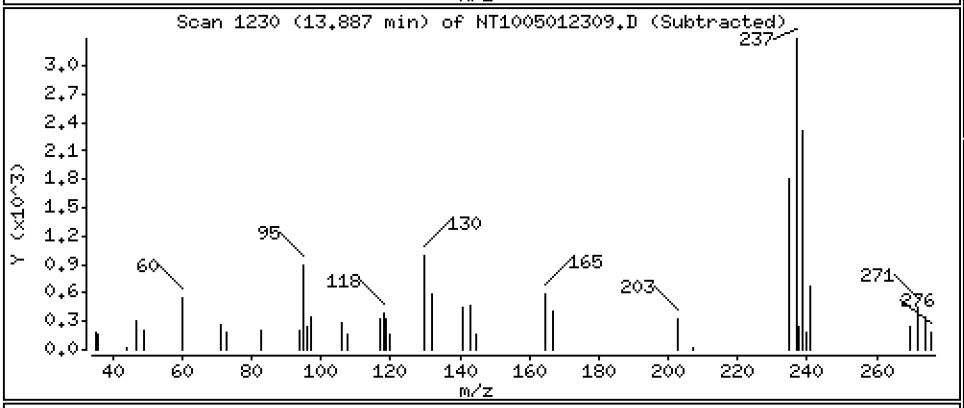
Column phase: ZB-5msi

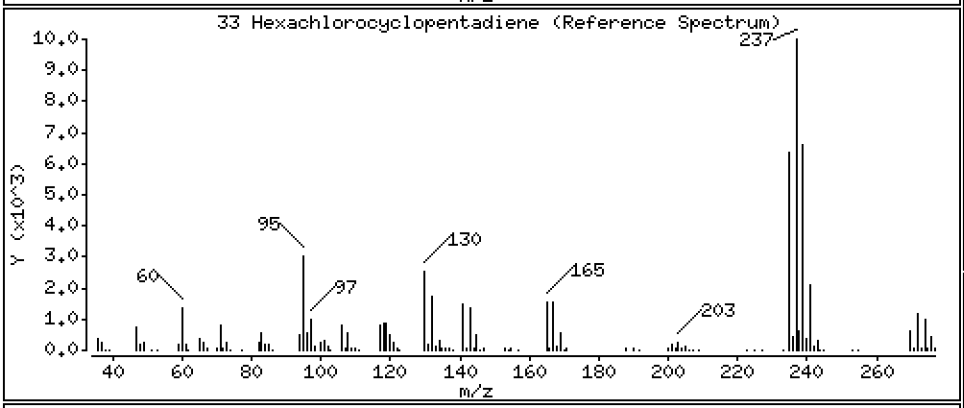
Column diameter: 0.25

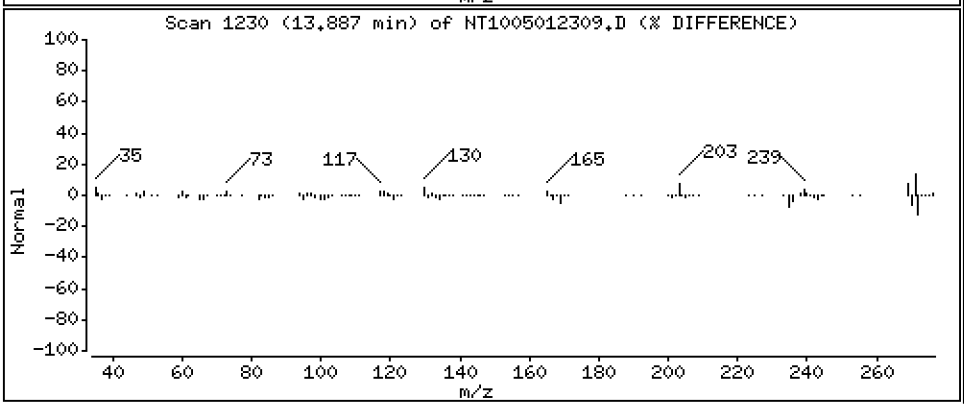
33 Hexachlorocyclopentadiene

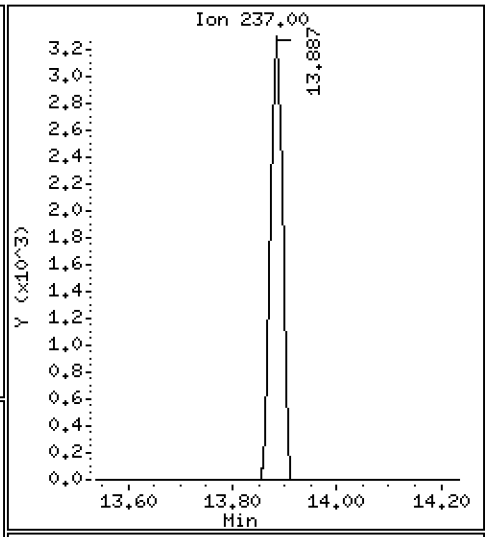
Concentration: 0.1437 ug/mL

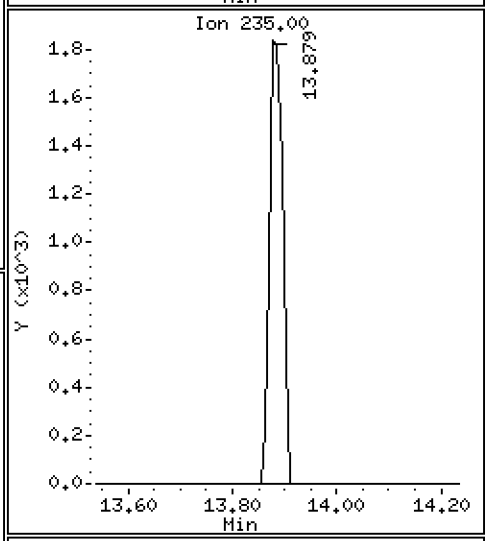


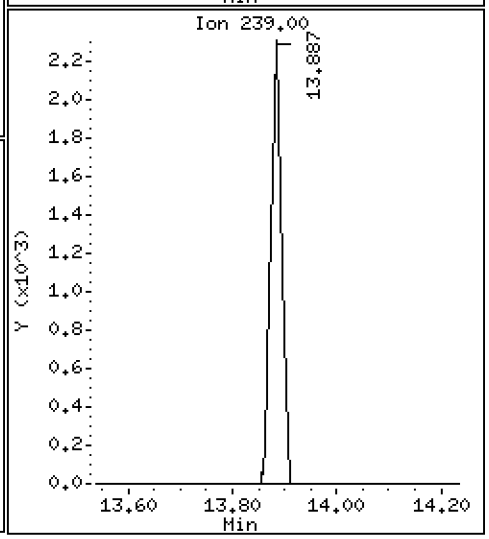












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

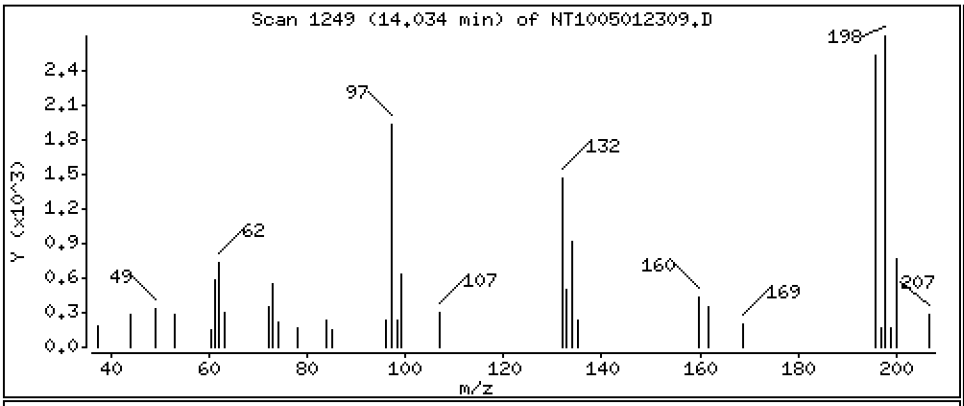
Operator: VTS

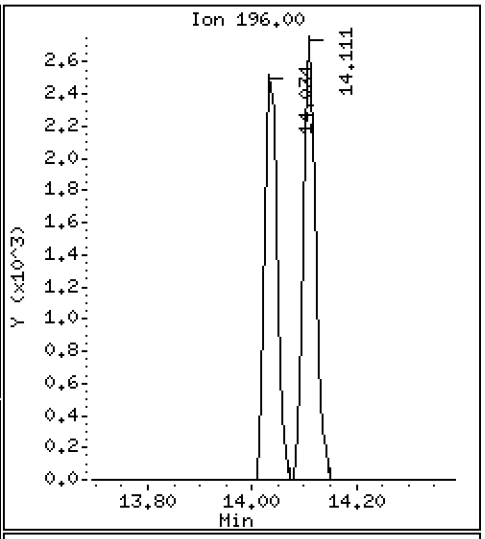
Column phase: ZB-5msi

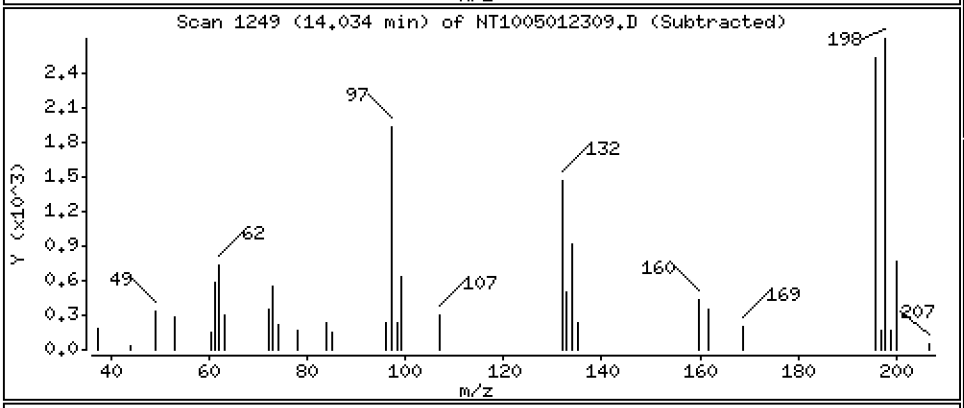
Column diameter: 0.25

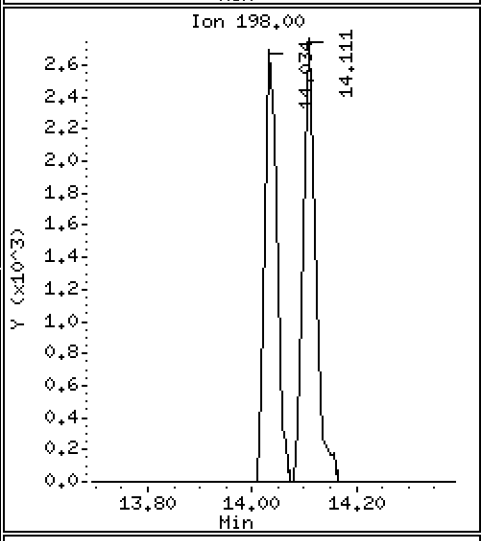
34 2,4,6-Trichlorophenol

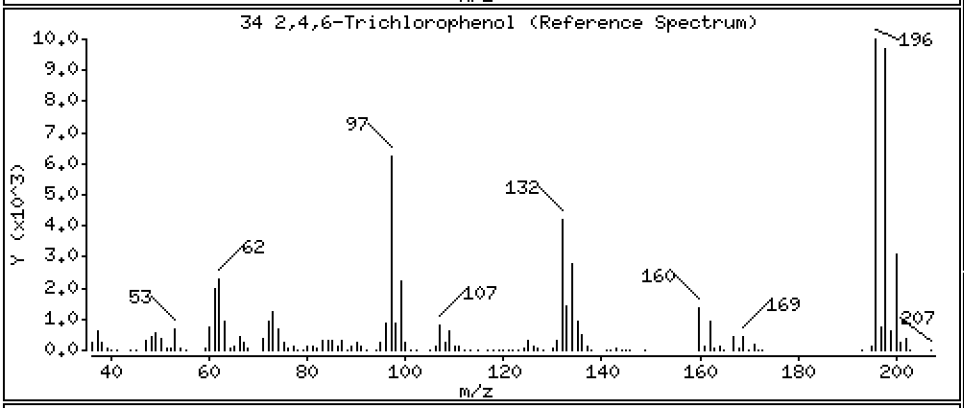
Concentration: 0.1167 ug/mL

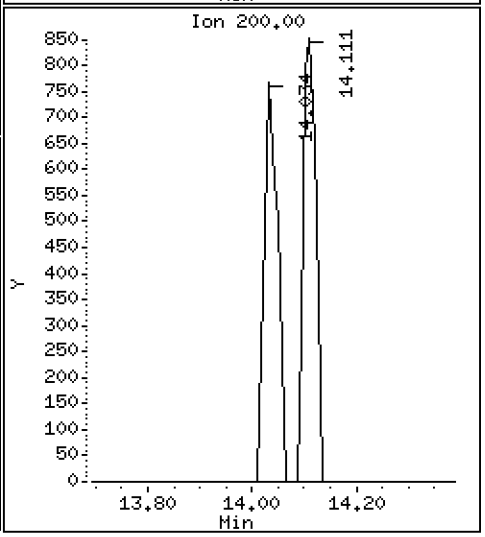


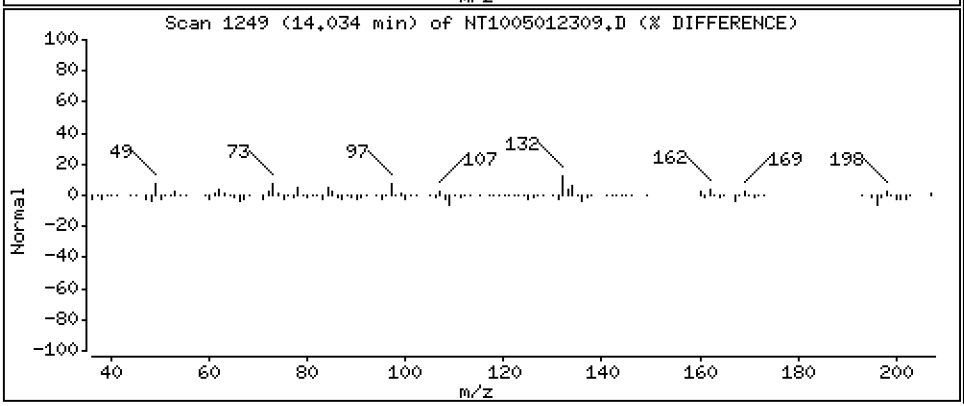












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

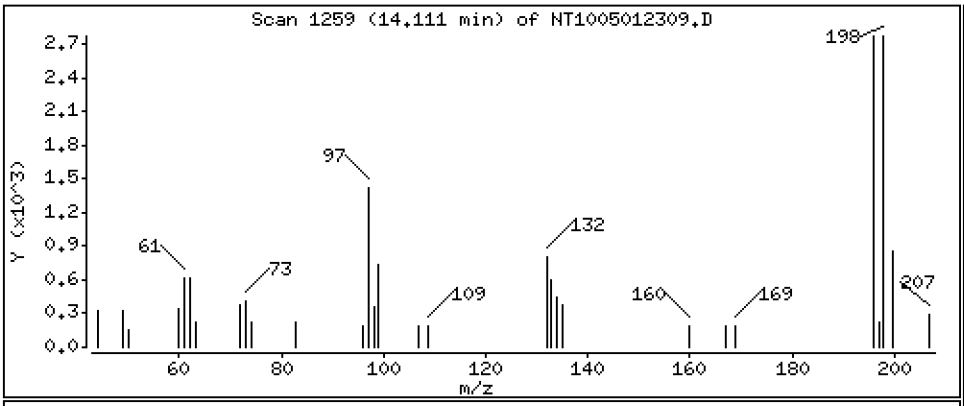
Operator: VTS

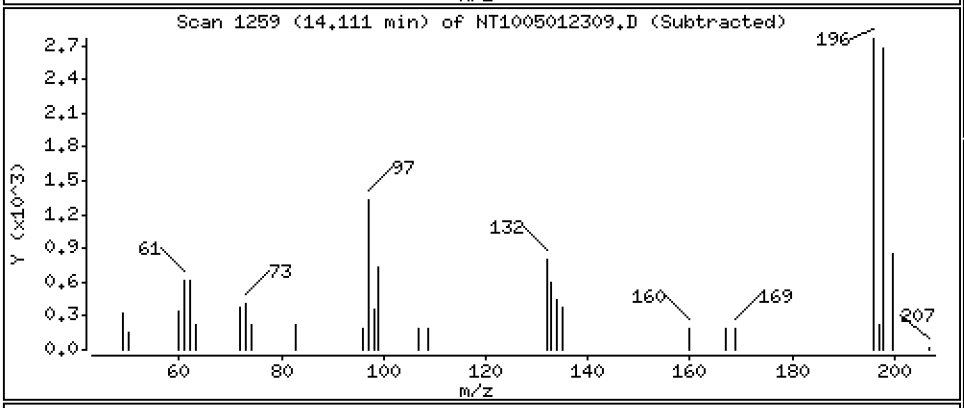
Column phase: ZB-5msi

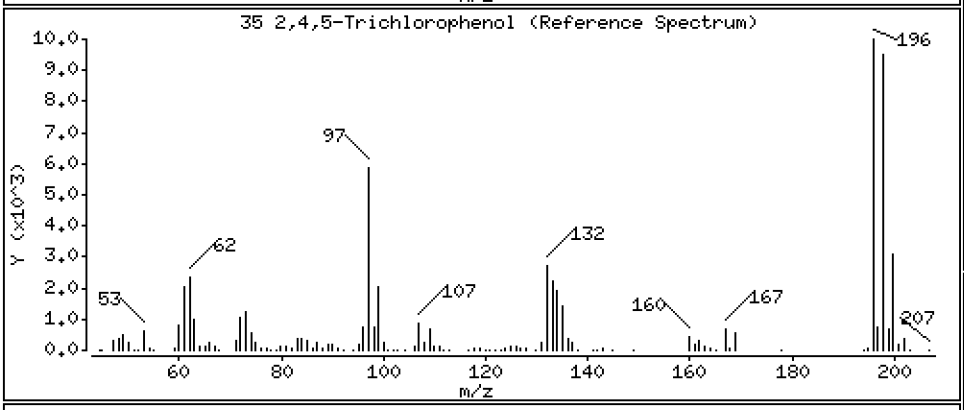
Column diameter: 0.25

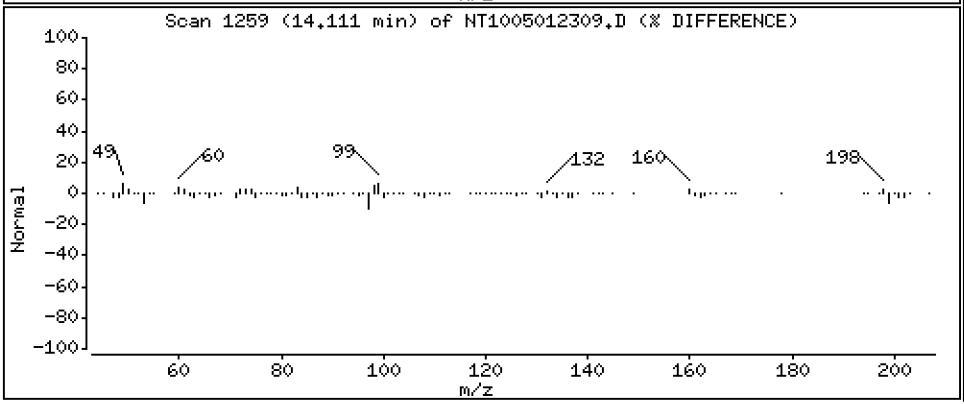
35 2,4,5-Trichlorophenol

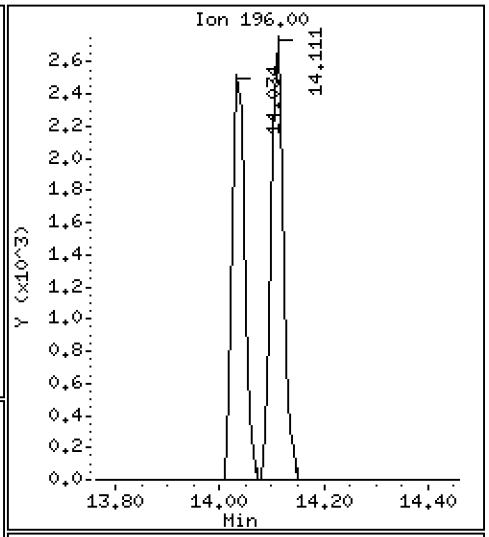
Concentration: 0.1145 ug/mL

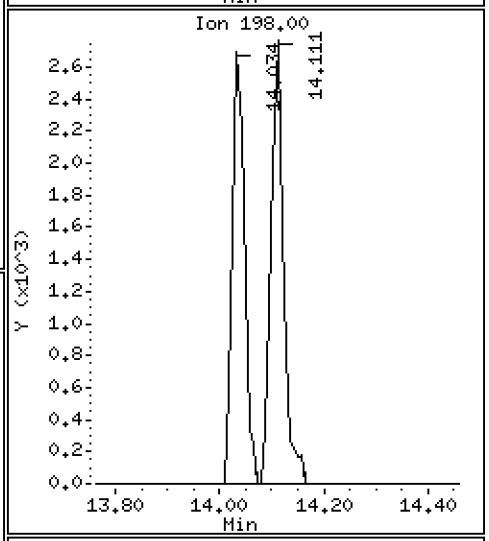


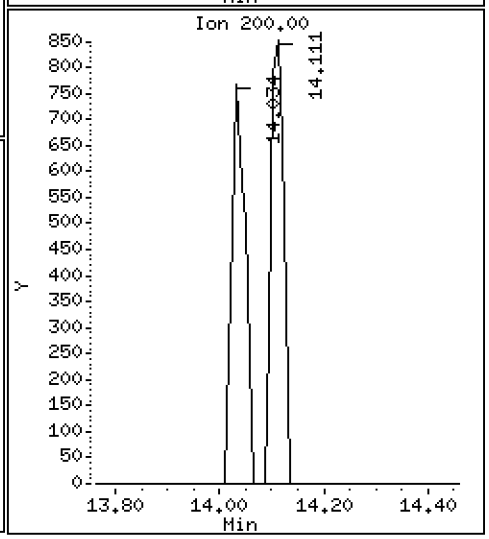












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

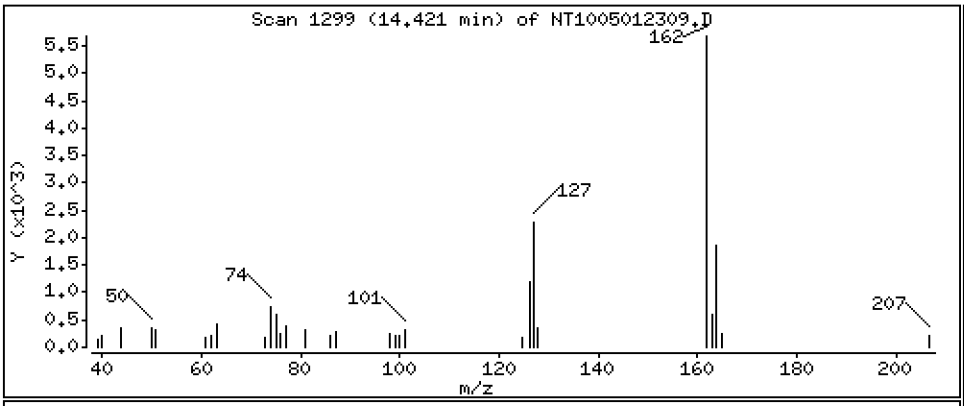
Operator: VTS

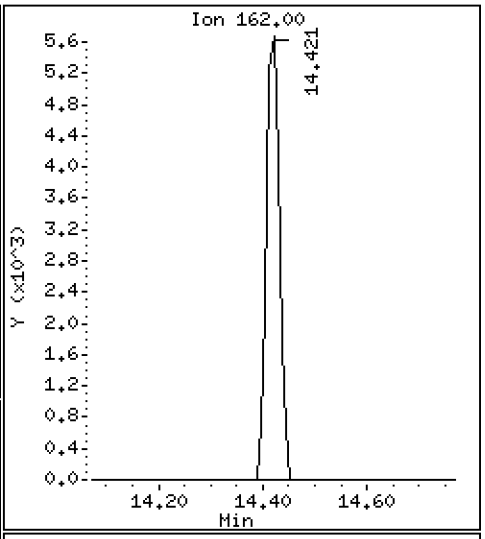
Column phase: ZB-5msi

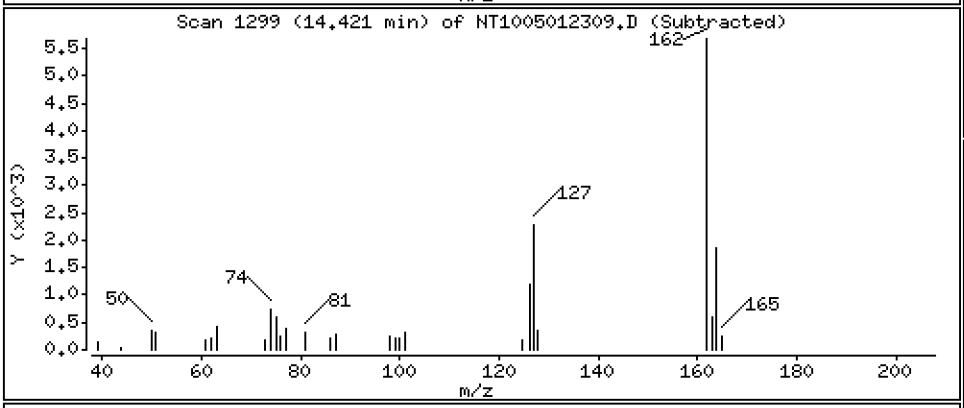
Column diameter: 0.25

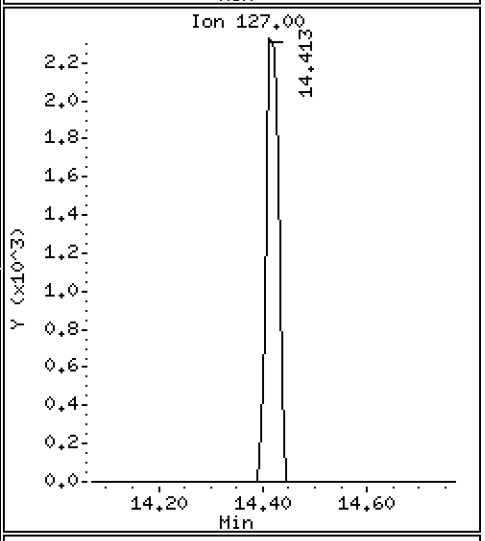
37 2-Chloronaphthalene

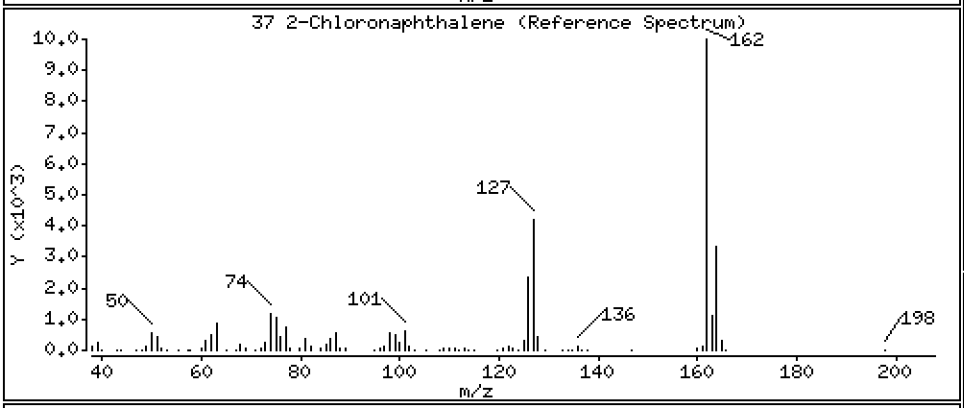
Concentration: 0.09901 ug/mL

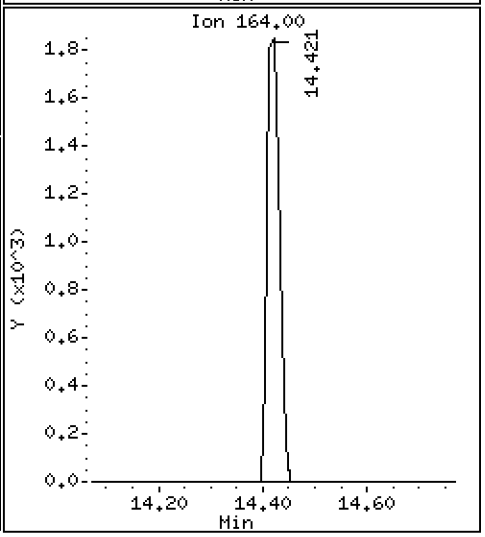


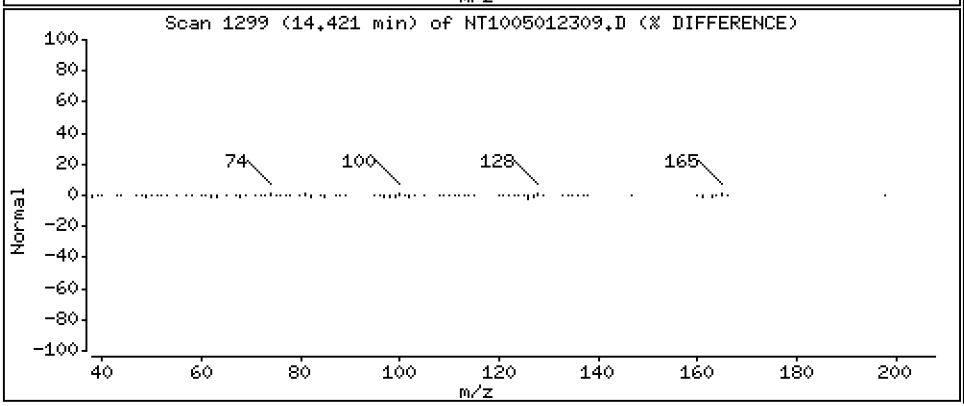












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

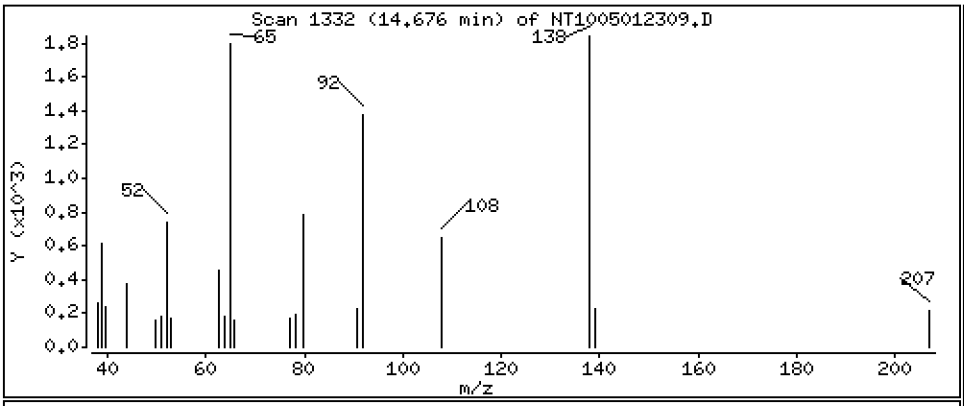
Operator: VTS

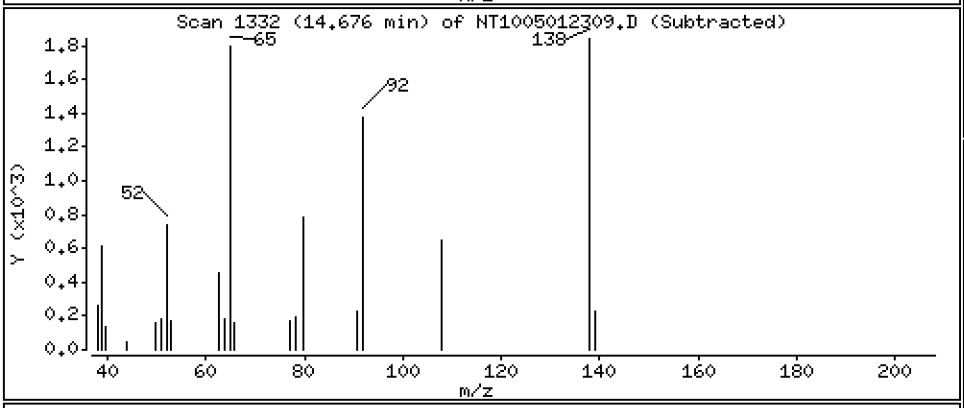
Column phase: ZB-5msi

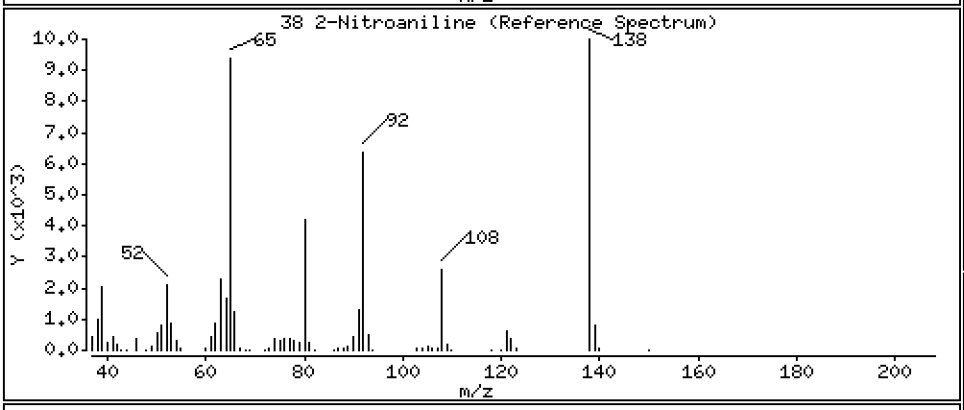
Column diameter: 0.25

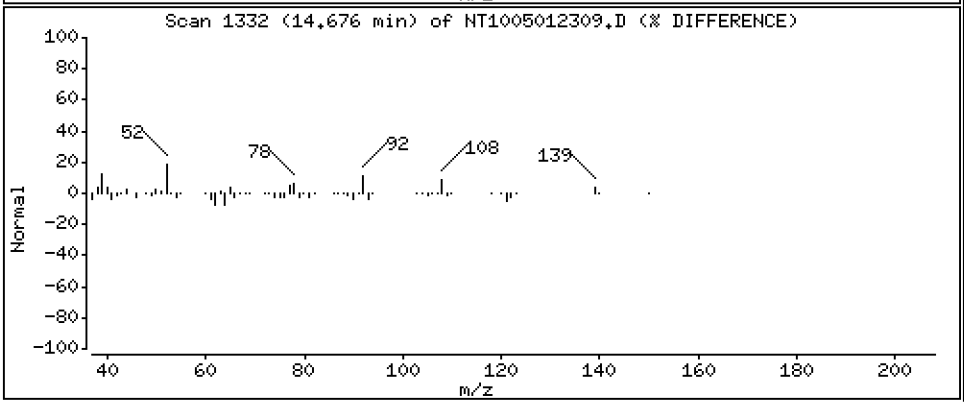
38 2-Nitroaniline

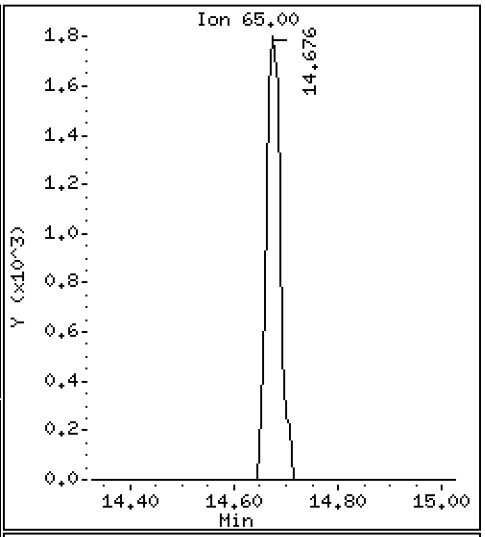
Concentration: 0.1172 ug/mL

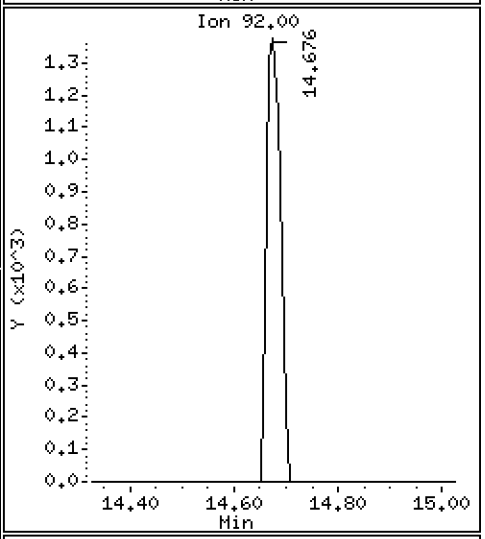


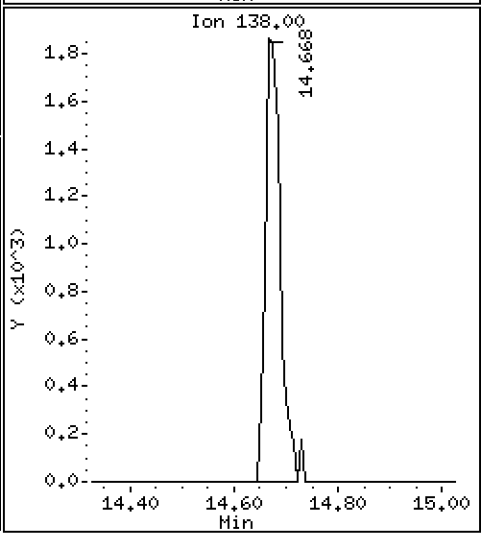












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

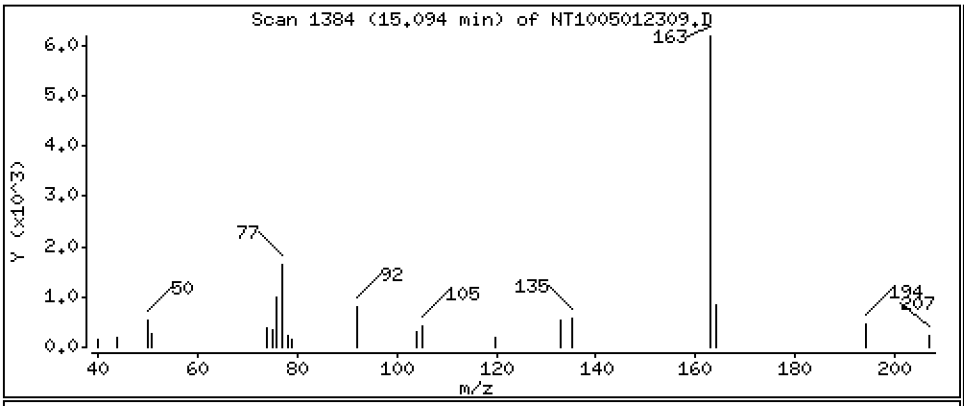
Operator: VTS

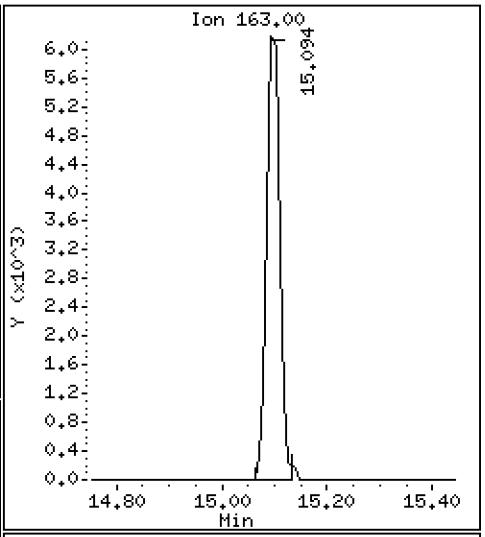
Column phase: ZB-5msi

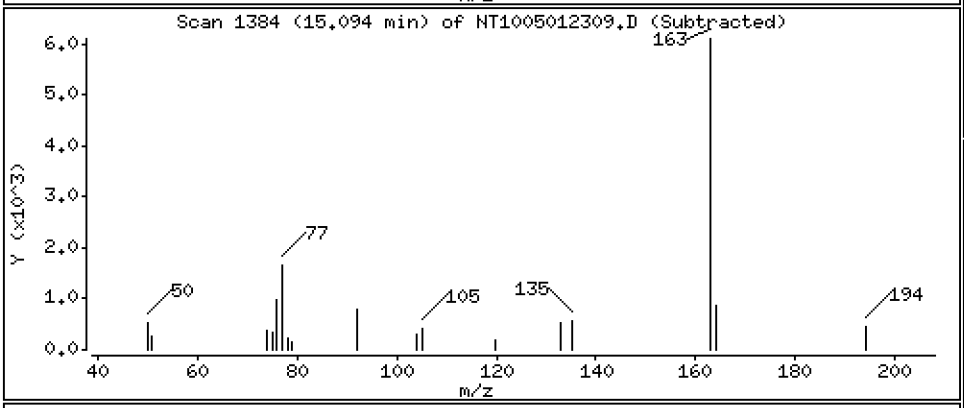
Column diameter: 0.25

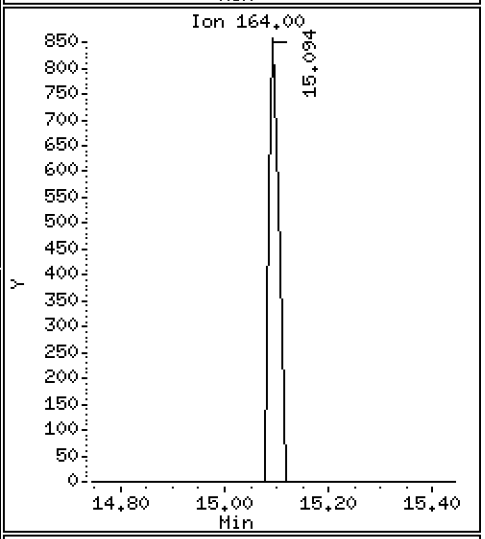
39 Dimethylphthalate

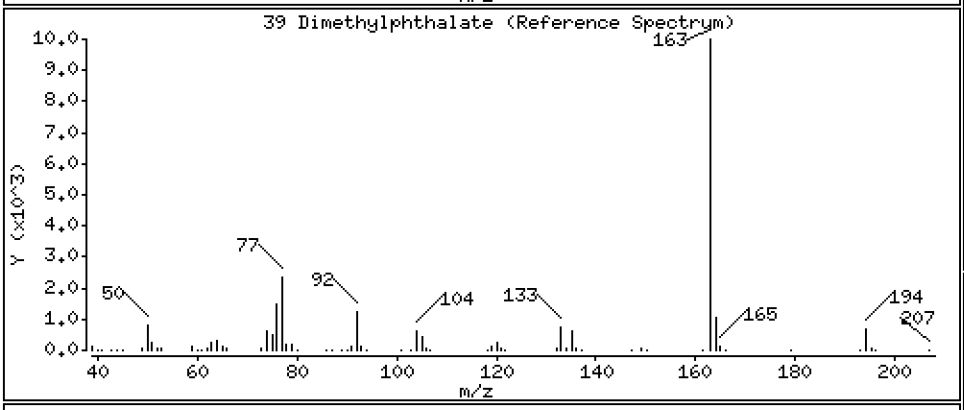
Concentration: 0.09644 ug/mL

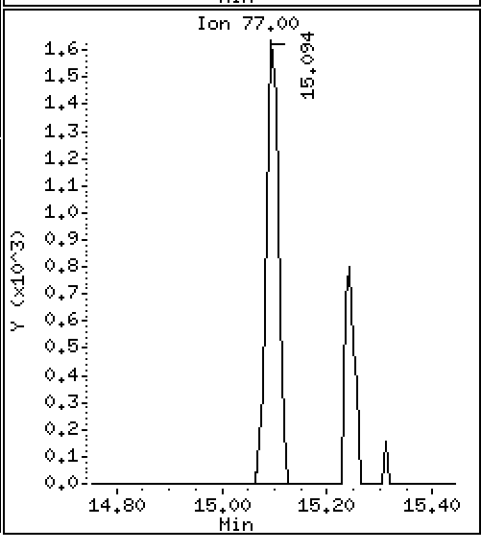


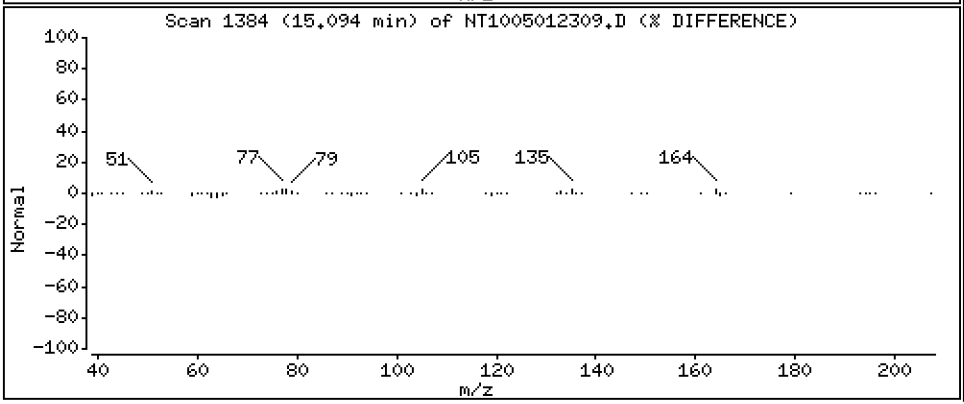












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

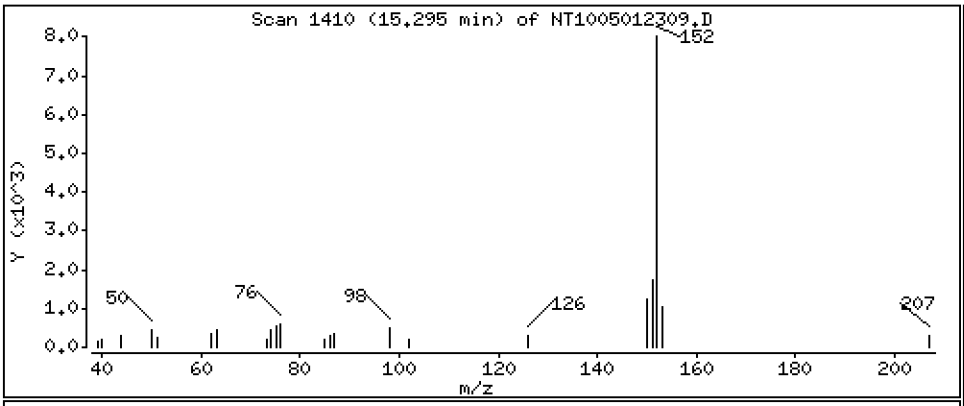
Operator: VTS

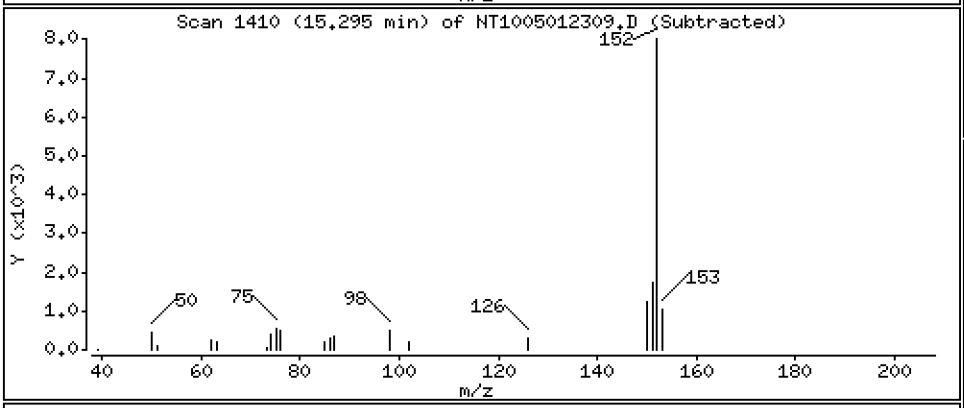
Column phase: ZB-5msi

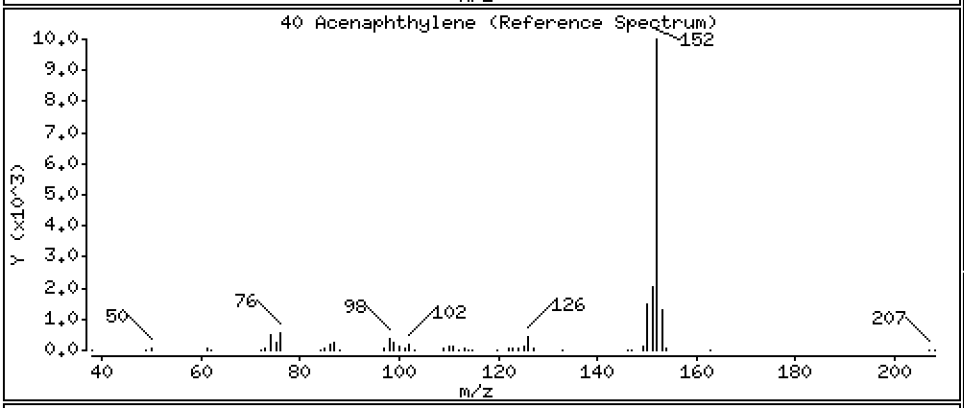
Column diameter: 0.25

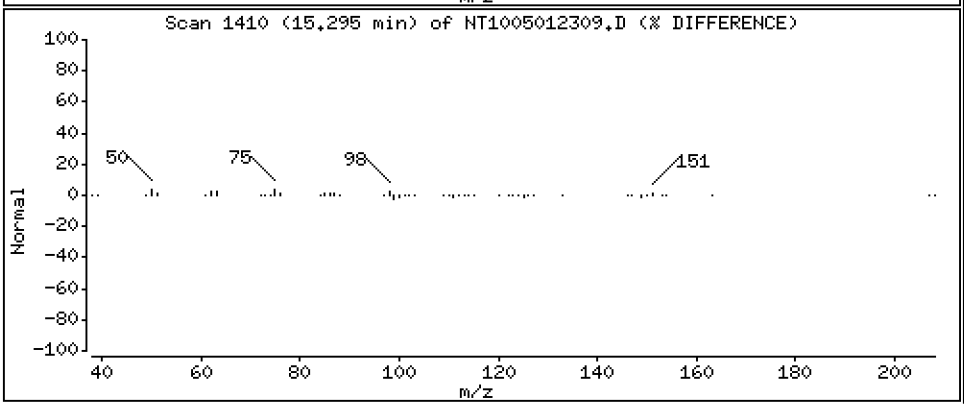
40 Acenaphthylene

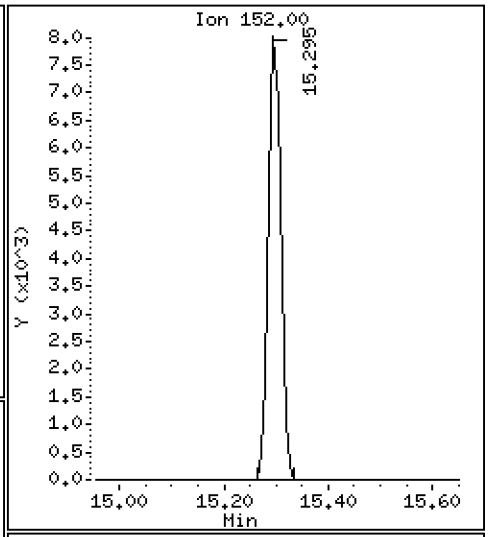
Concentration: 0.08549 ug/mL

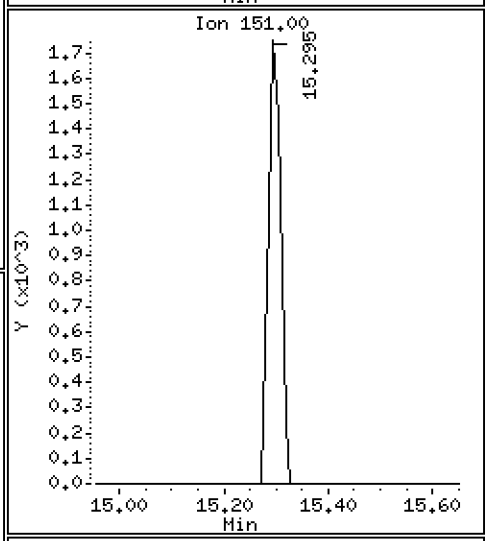


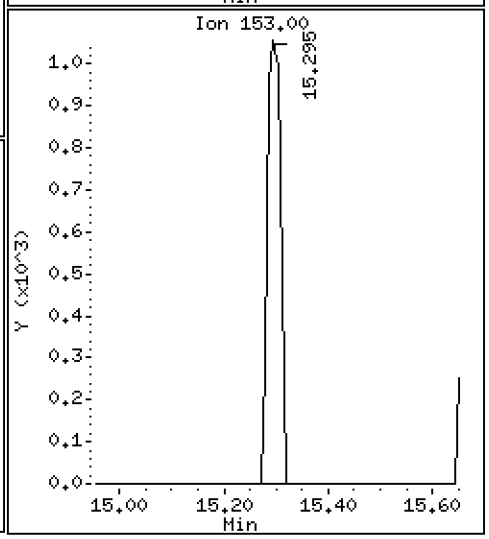












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

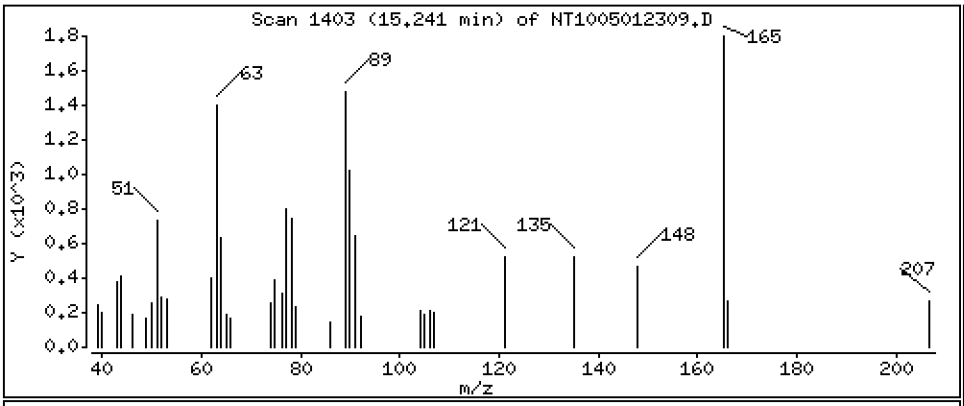
Operator: VTS

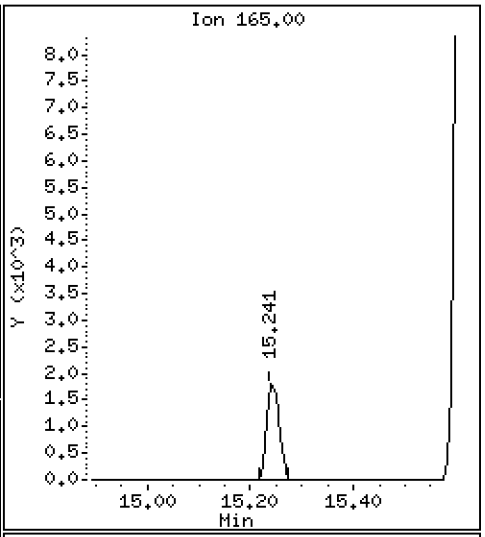
Column phase: ZB-5msi

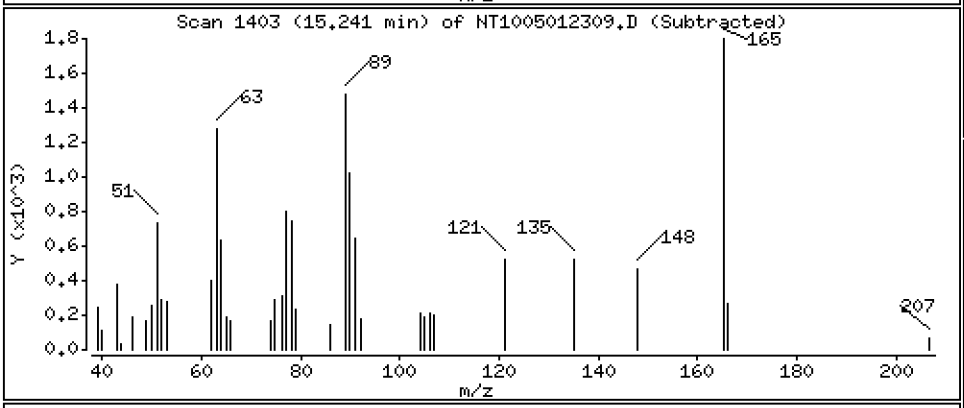
Column diameter: 0.25

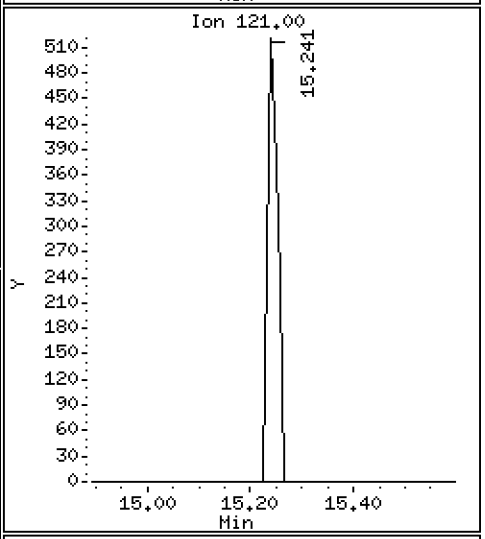
41 2,6-Dinitrotoluene

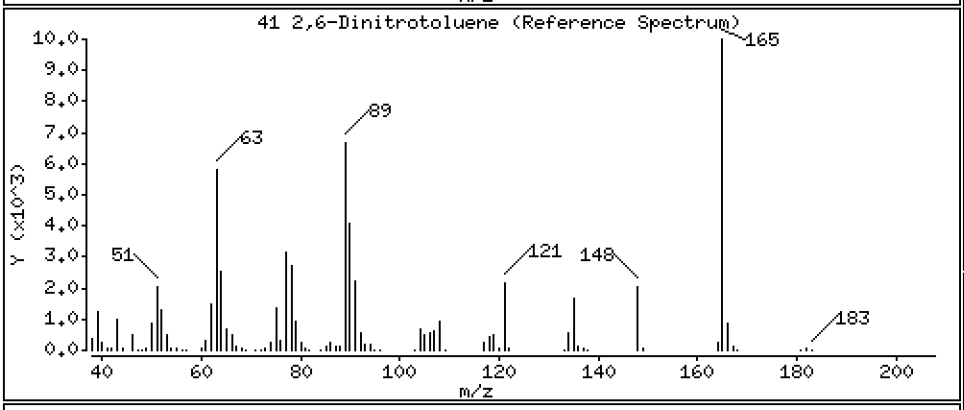
Concentration: 0.1163 ug/mL

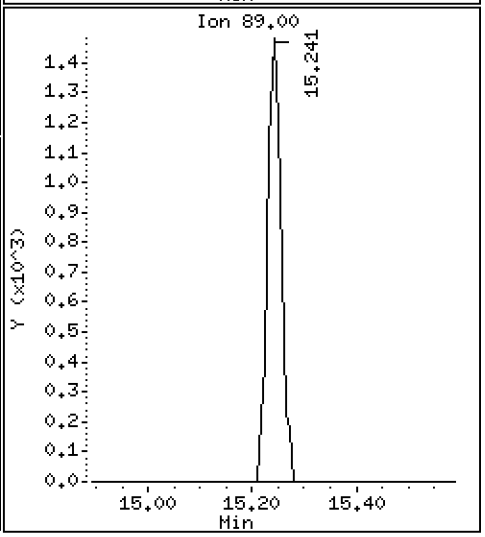


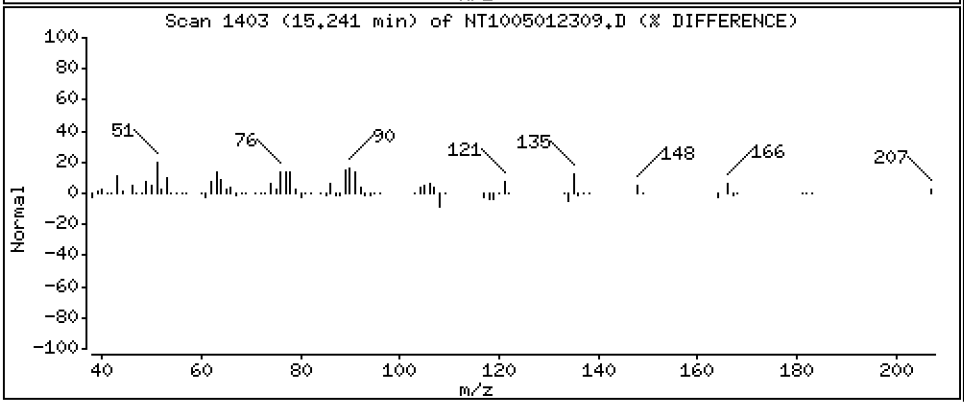












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

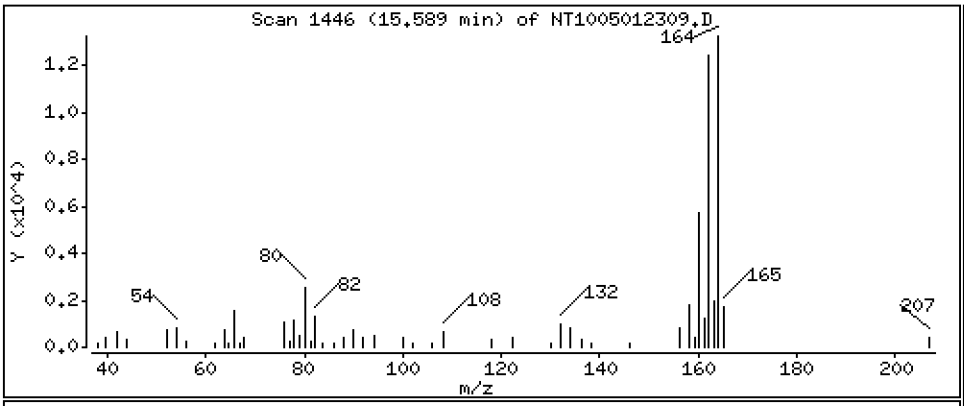
Operator: VTS

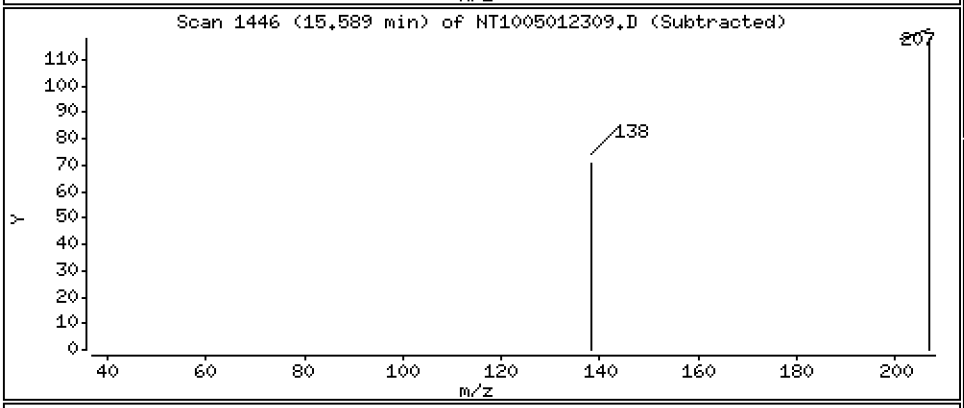
Column phase: ZB-5msi

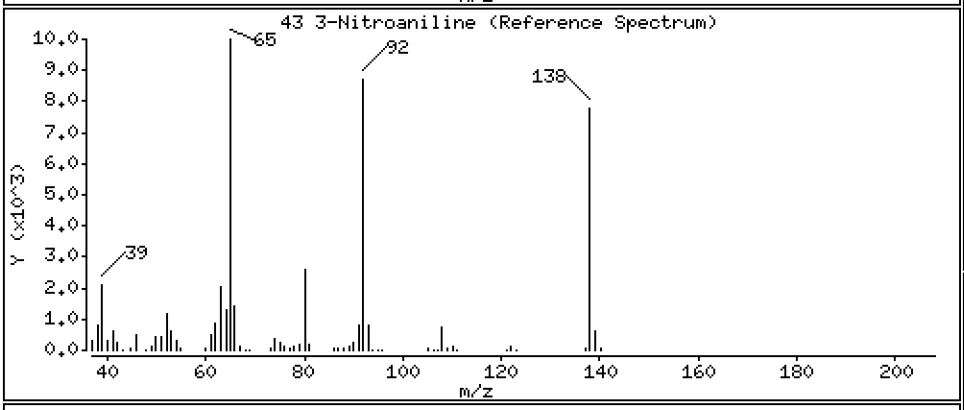
Column diameter: 0.25

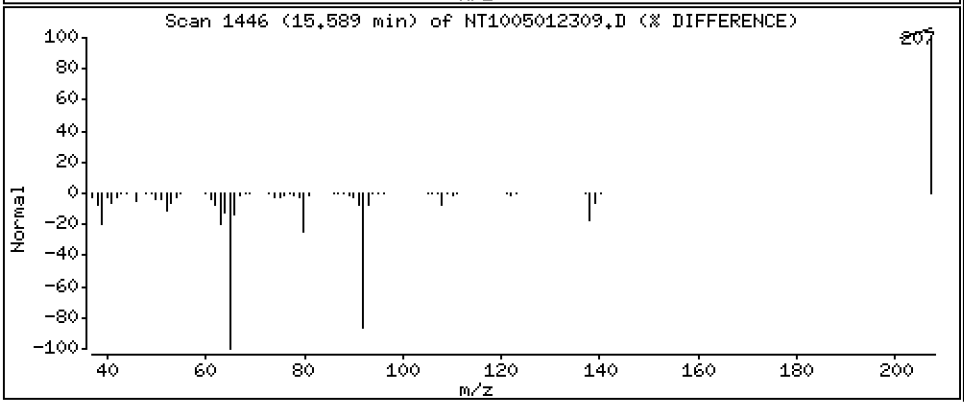
43 3-Nitroaniline

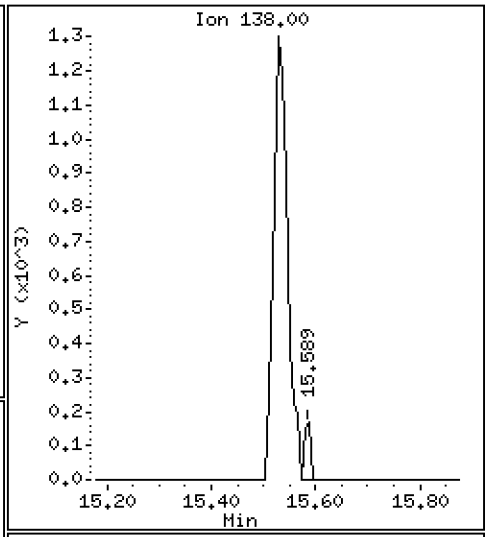
Concentration: 0.006275 ug/mL

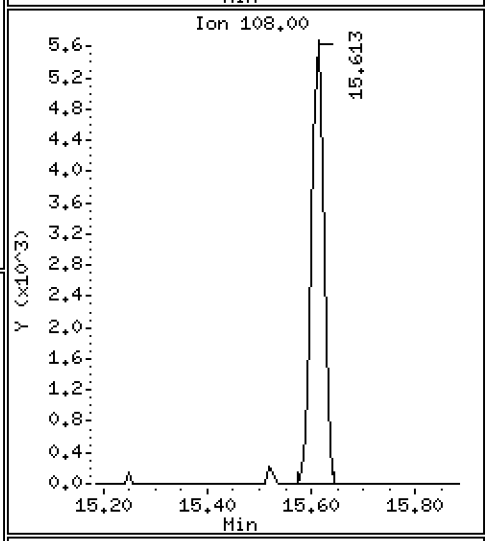


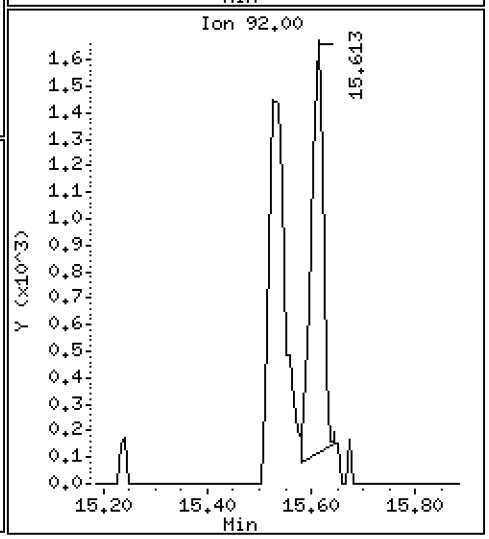












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

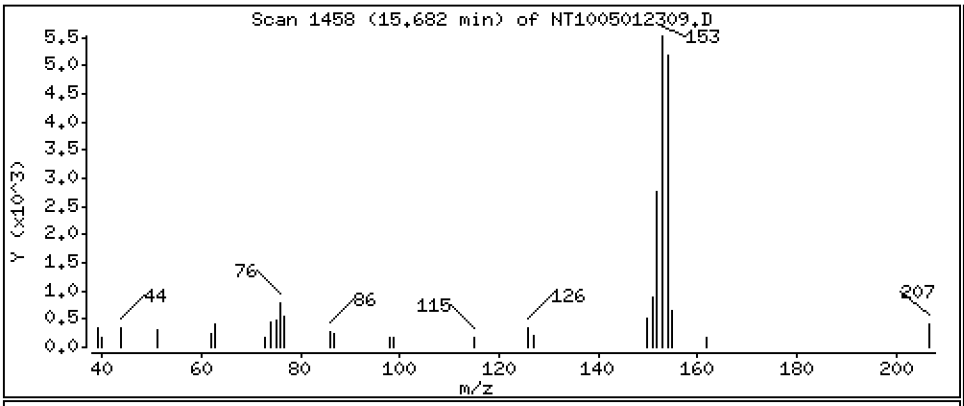
Operator: VTS

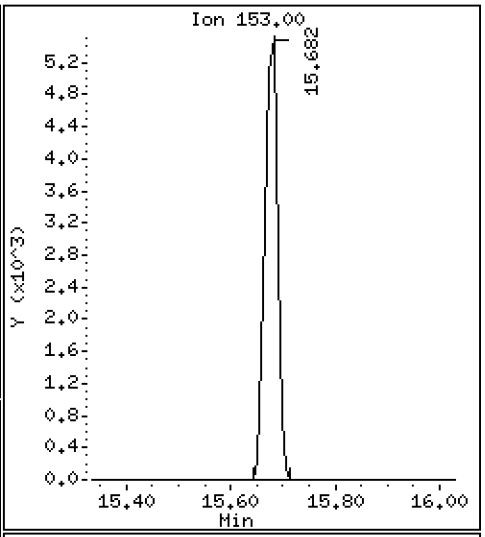
Column phase: ZB-5msi

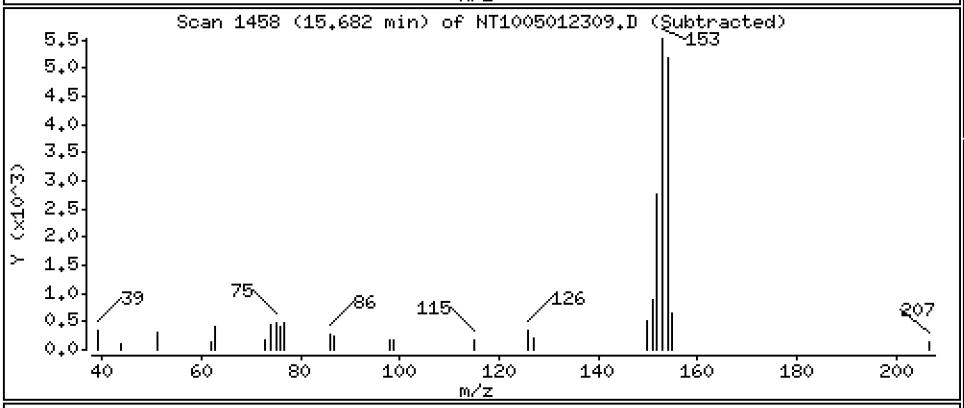
Column diameter: 0.25

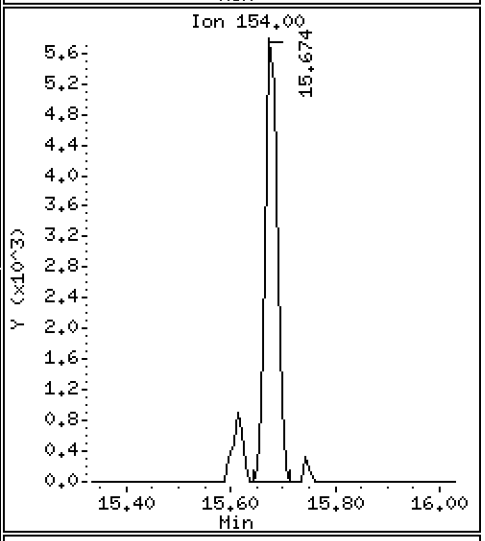
44 Acenaphthene

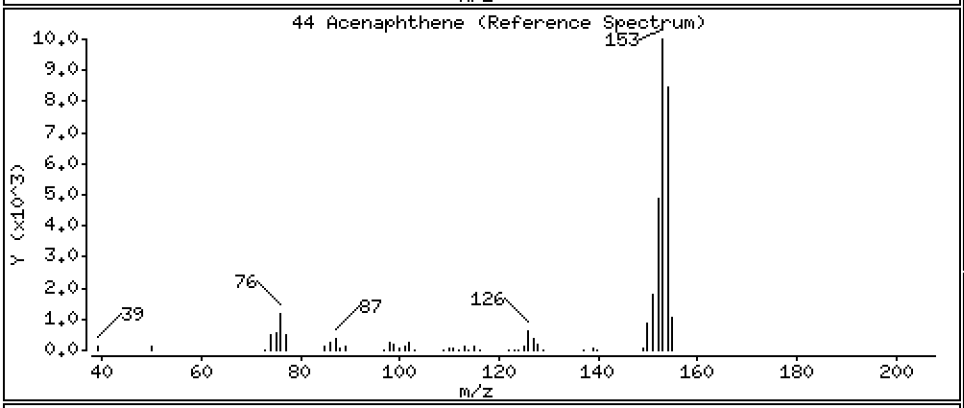
Concentration: 0.09453 ug/mL

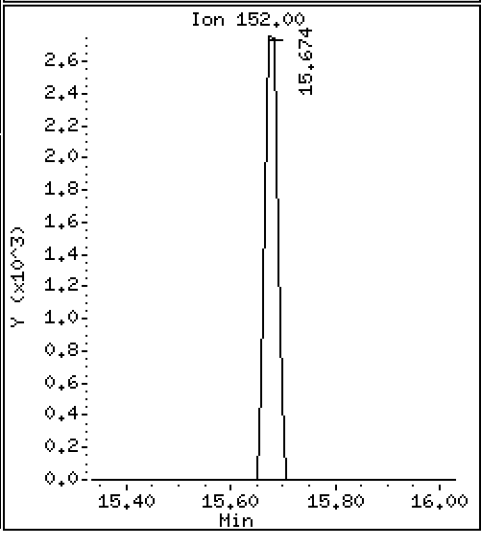


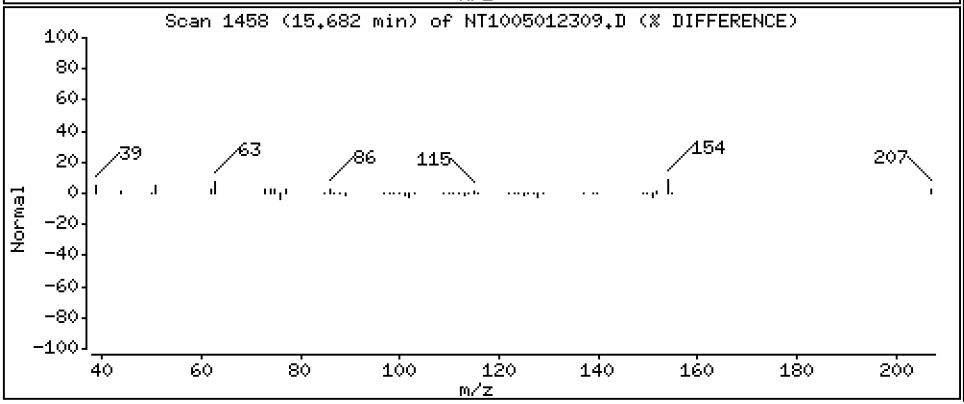












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

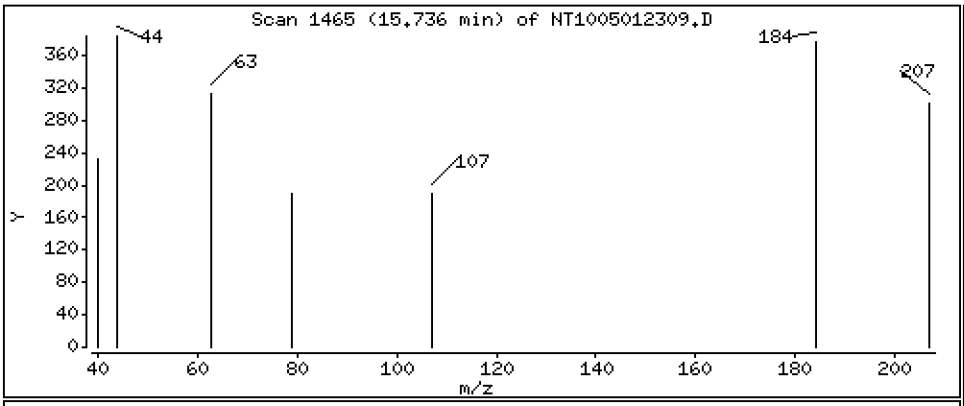
Operator: VTS

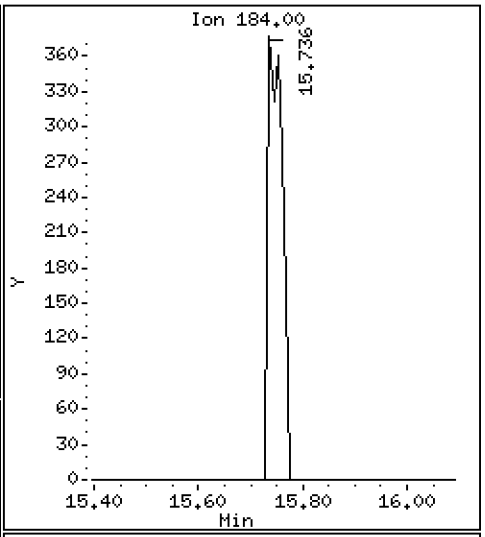
Column phase: ZB-5msi

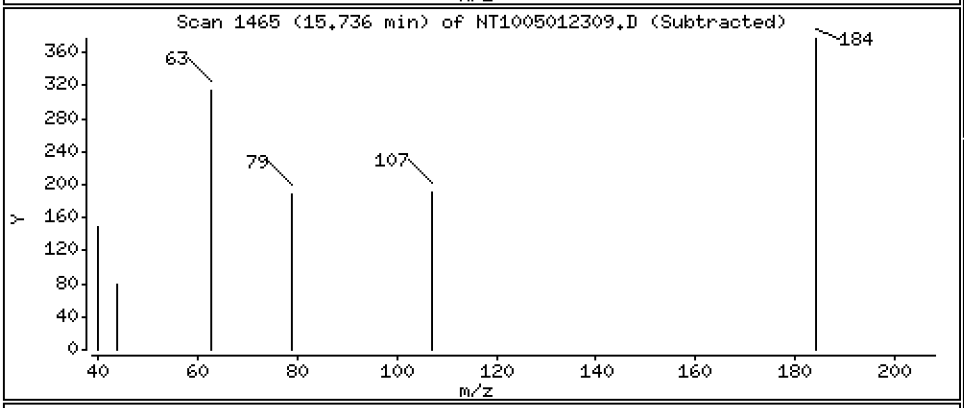
Column diameter: 0.25

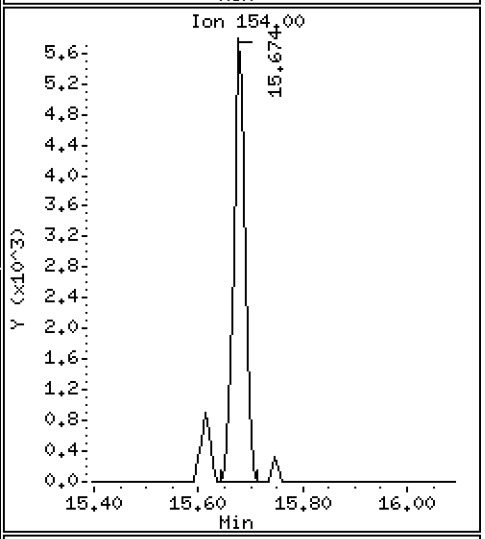
45 2,4-Dinitrophenol

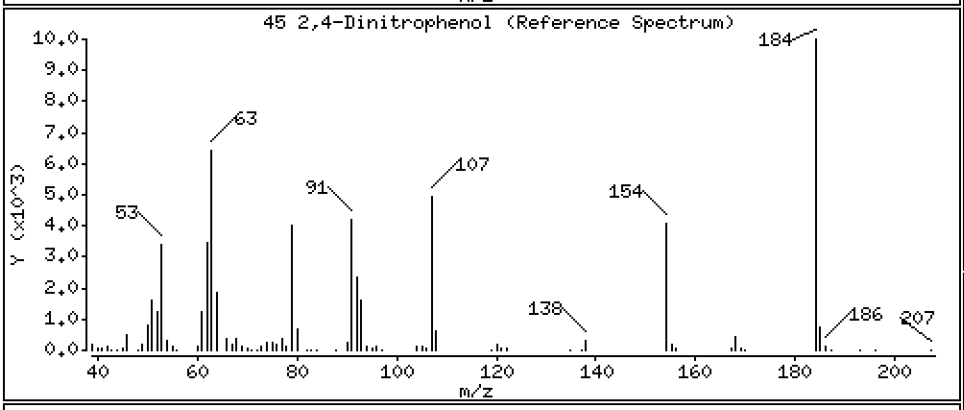
Concentration: 0.03758 ug/mL

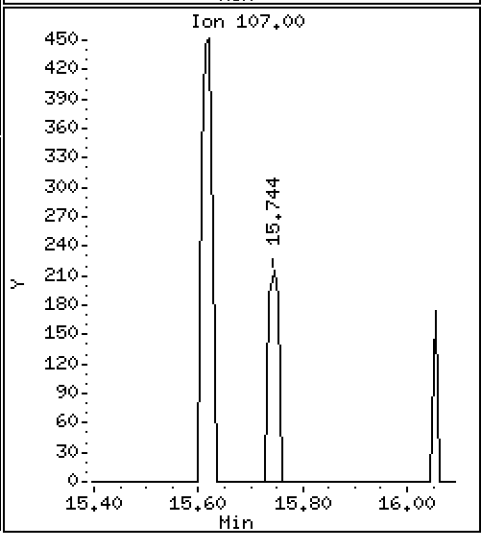


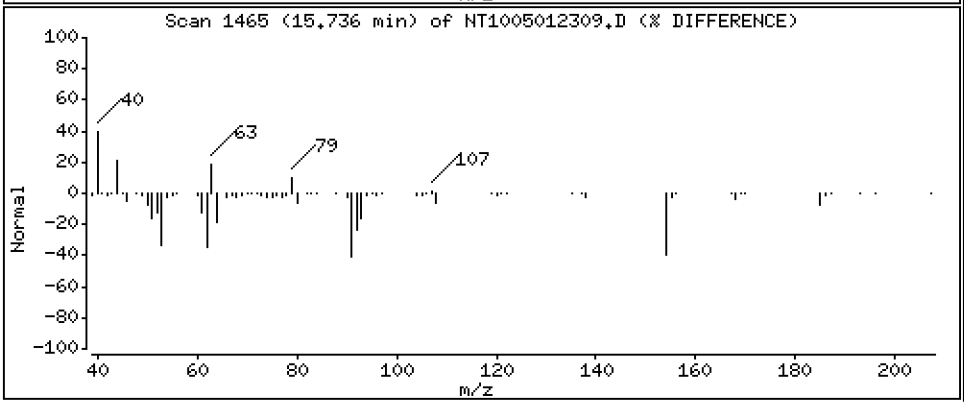












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

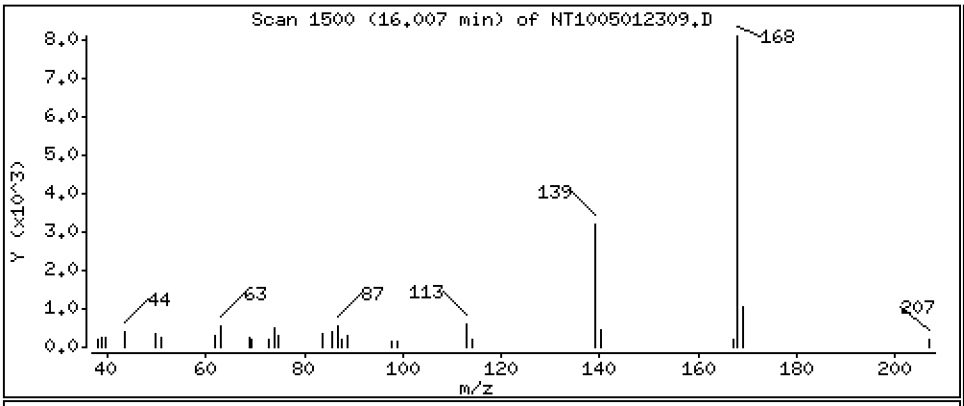
Operator: VTS

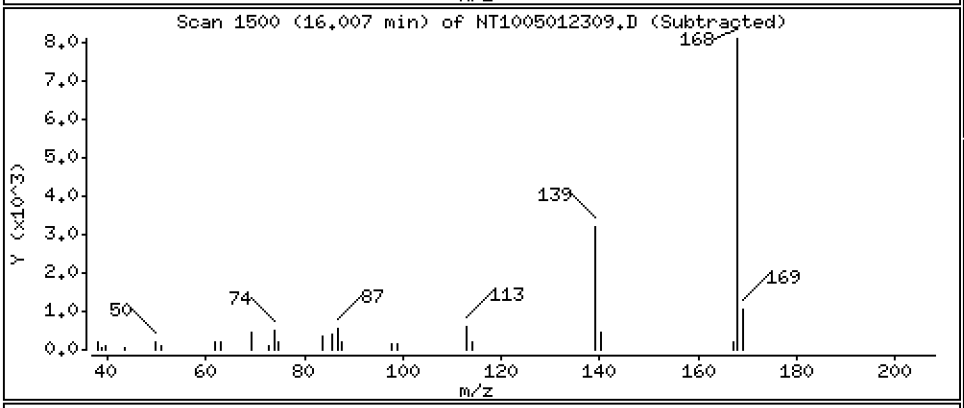
Column phase: ZB-5msi

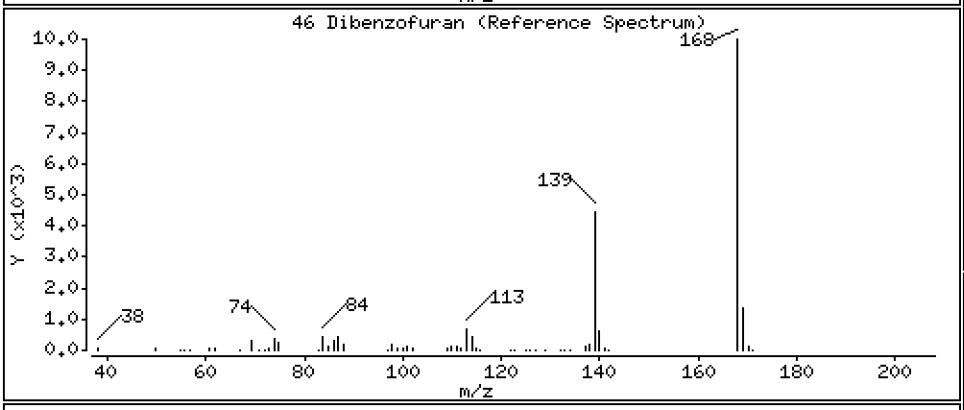
Column diameter: 0.25

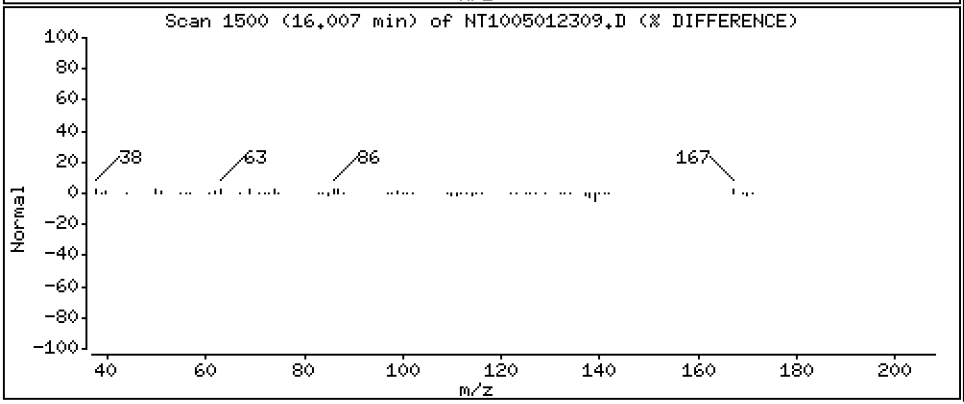
46 Dibenzofuran

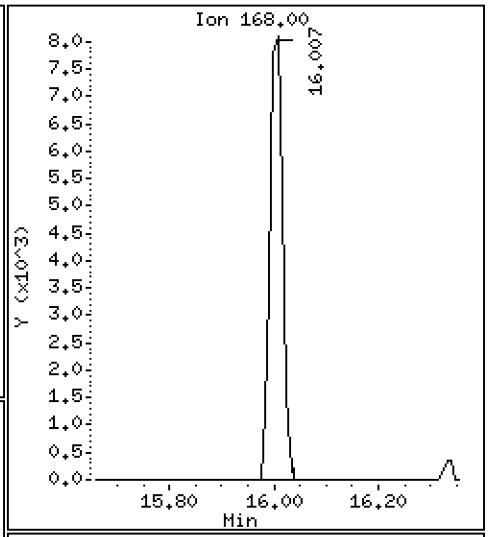
Concentration: 0.09386 ug/mL

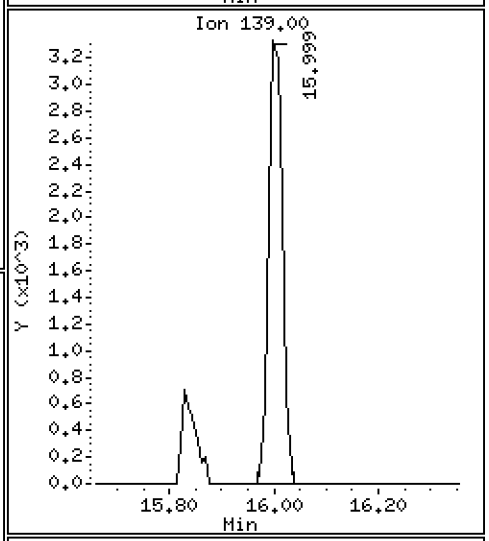


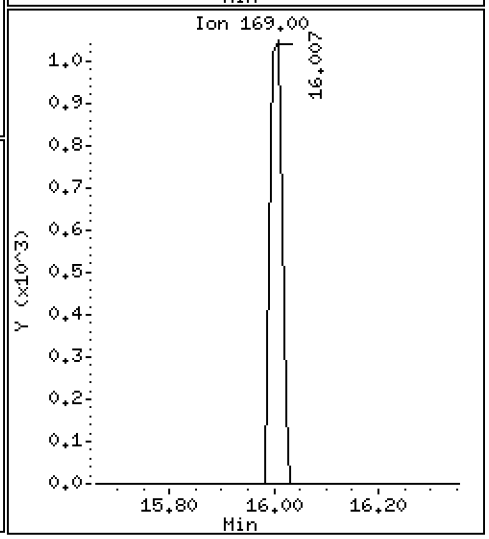












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

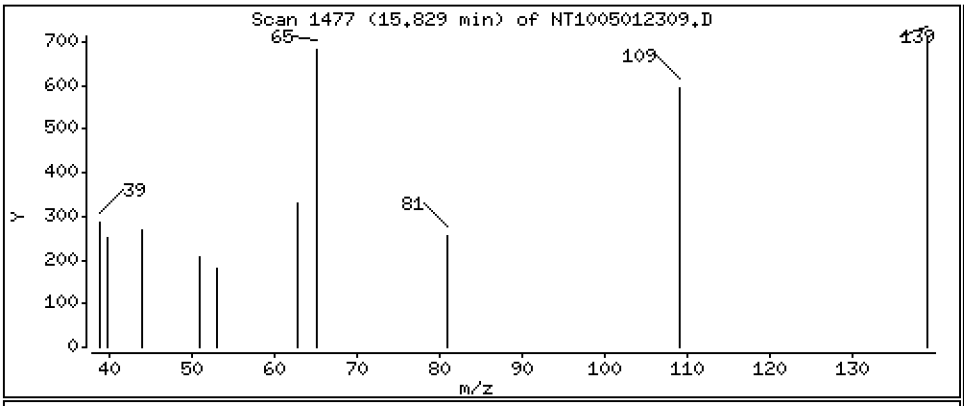
Operator: VTS

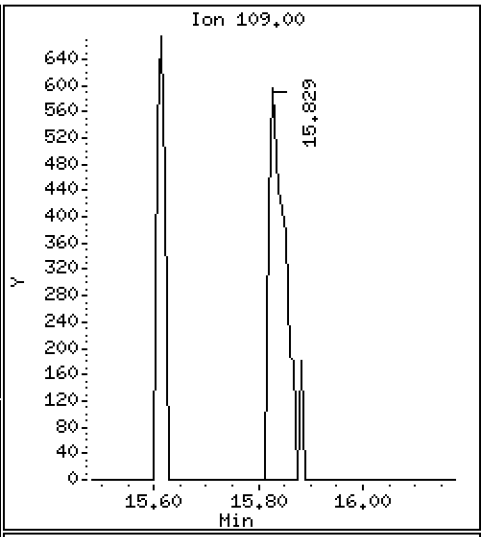
Column phase: ZB-5msi

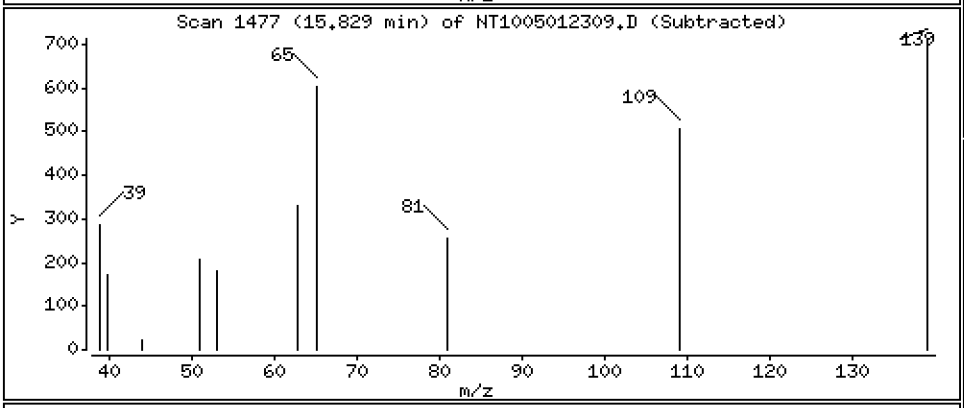
Column diameter: 0.25

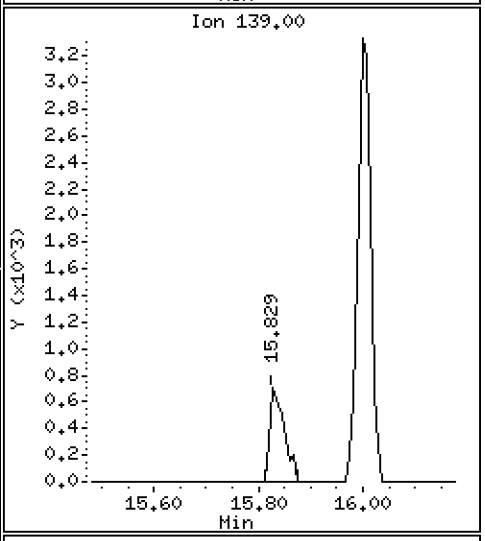
47 4-Nitrophenol

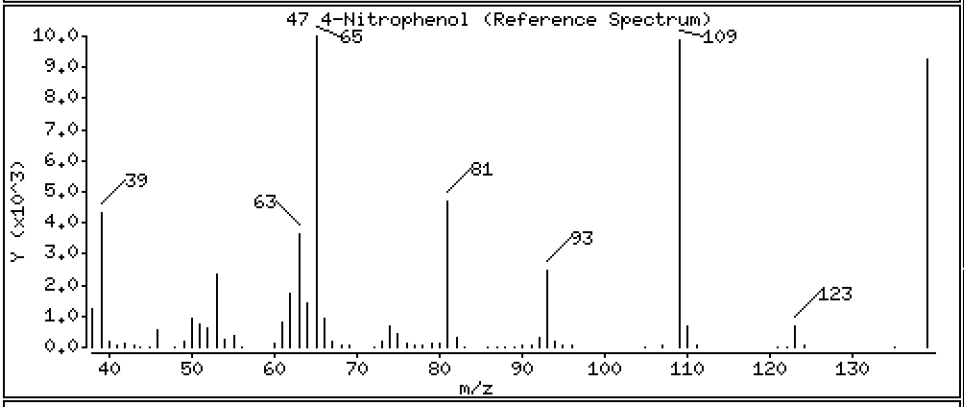
Concentration: 0.05456 ug/mL

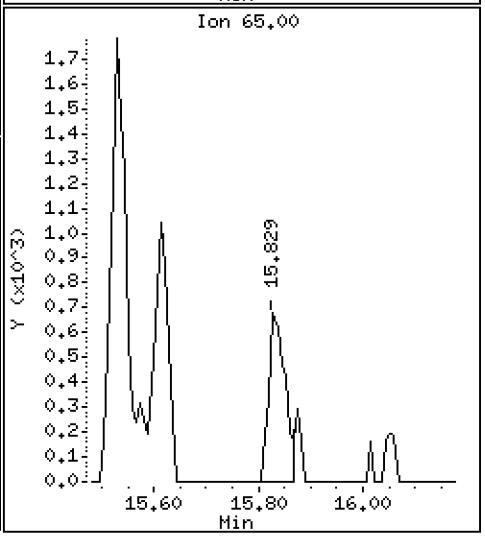


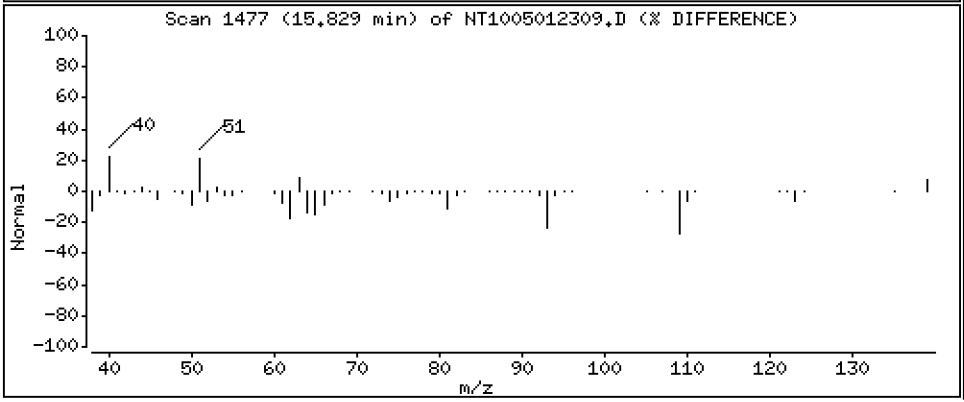












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

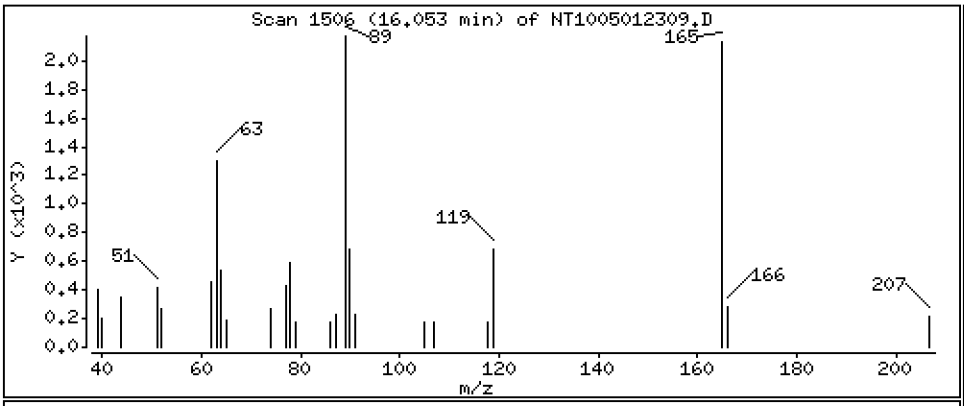
Operator: VTS

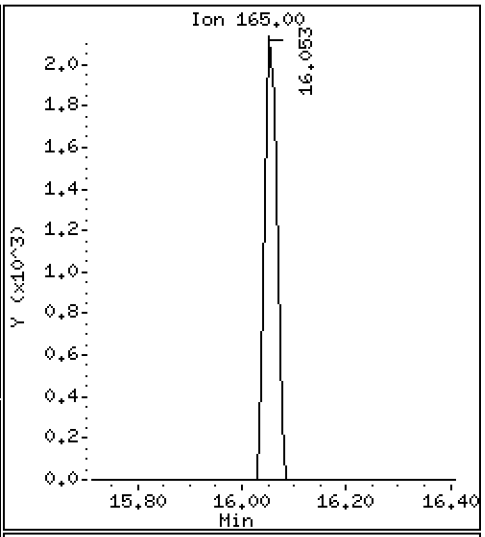
Column phase: ZB-5msi

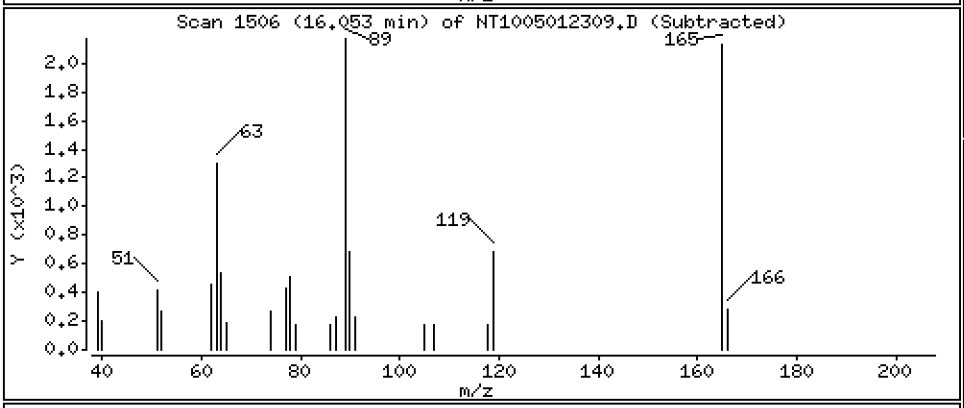
Column diameter: 0.25

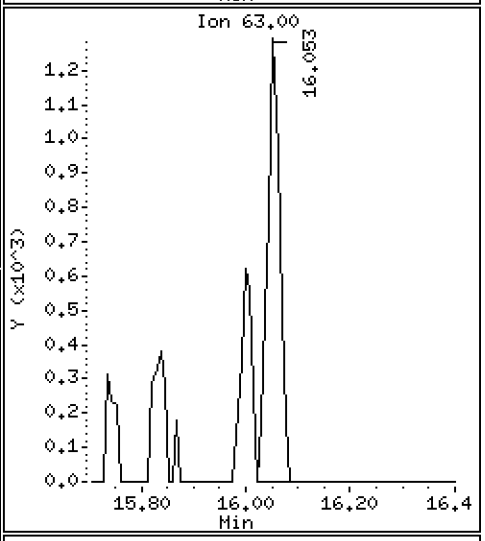
48 2,4-Dinitrotoluene

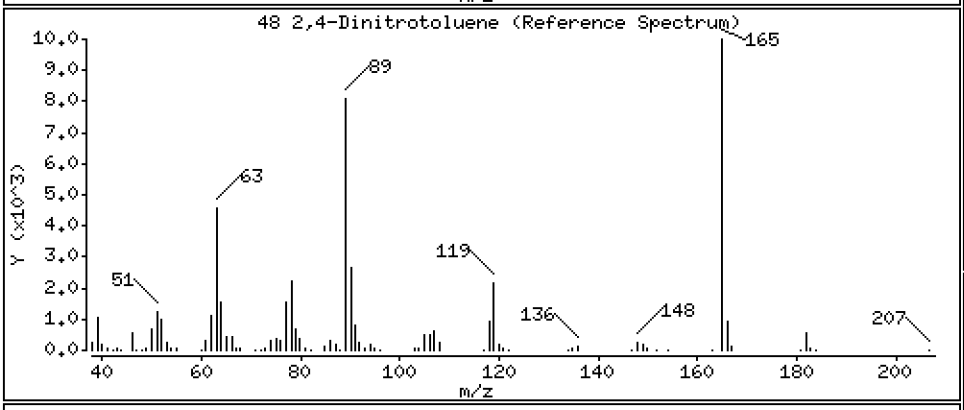
Concentration: 0.09660 ug/mL

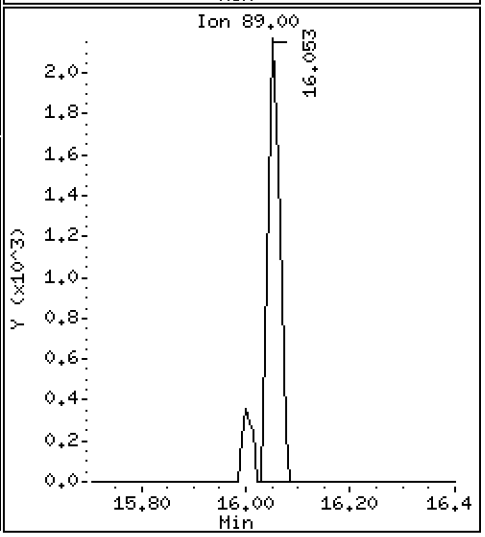


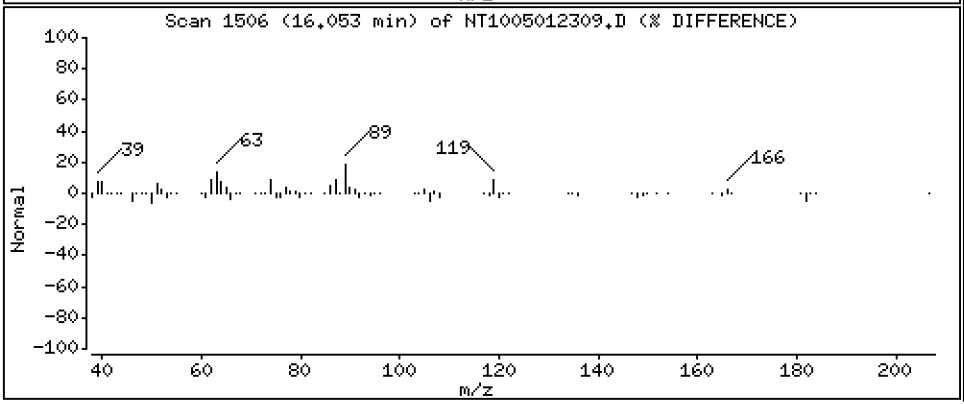












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

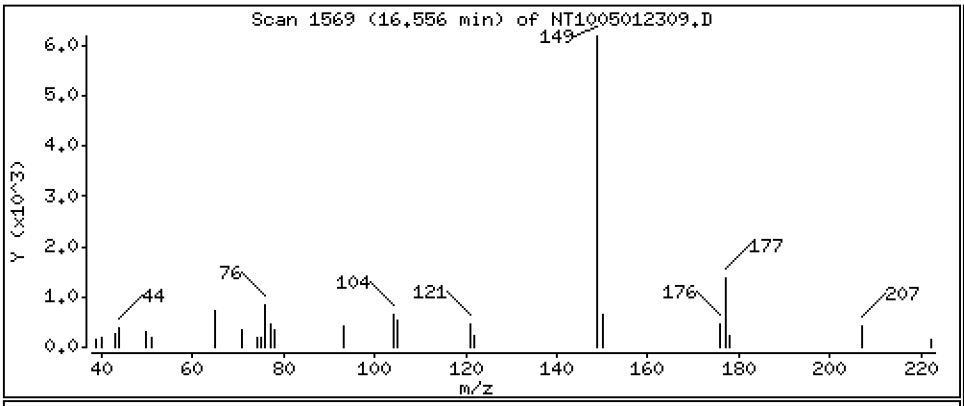
Operator: VTS

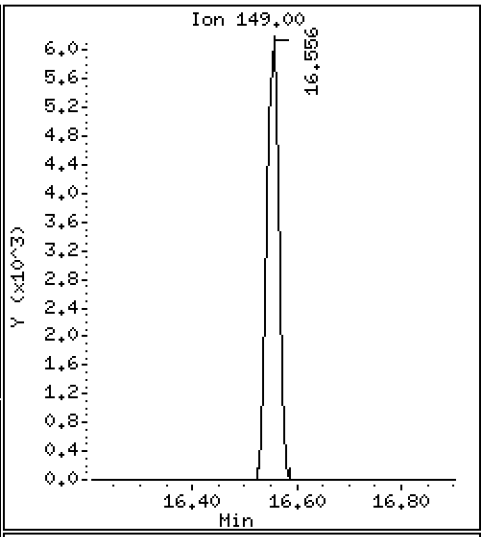
Column phase: ZB-5msi

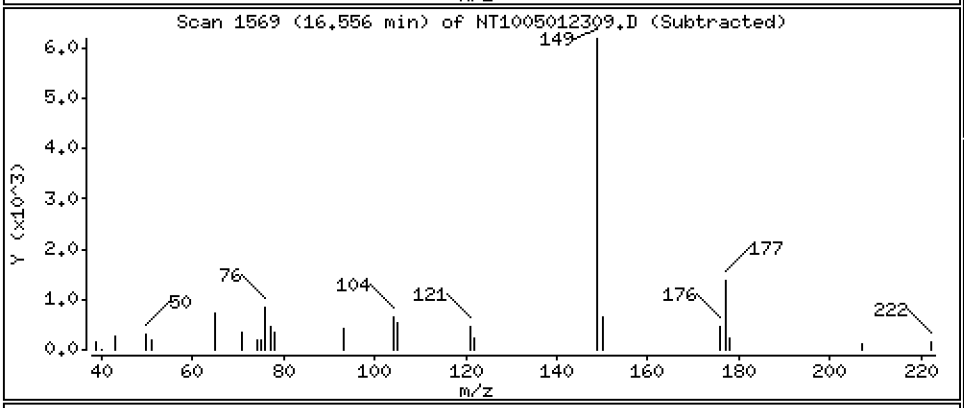
Column diameter: 0.25

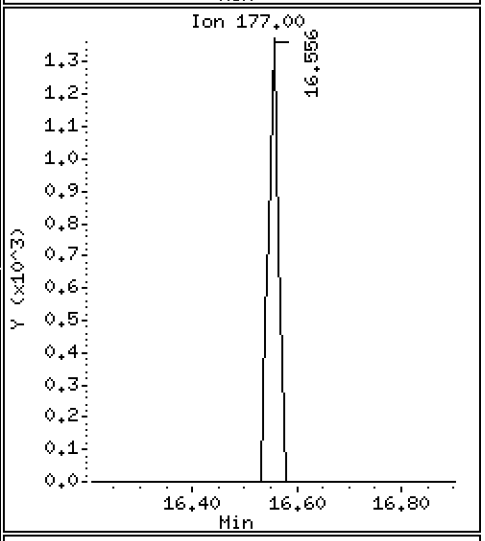
50 Diethylphthalate

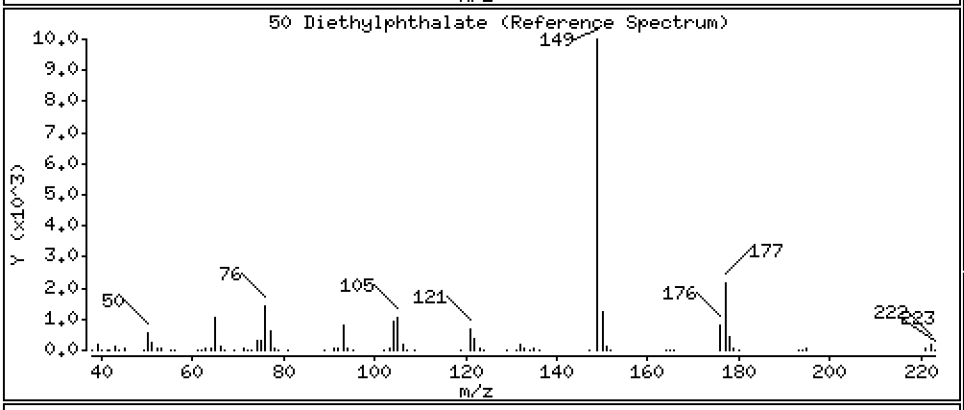
Concentration: 0.08361 ug/mL

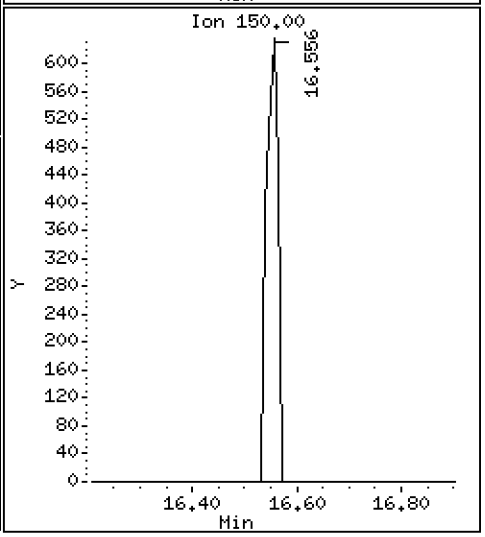


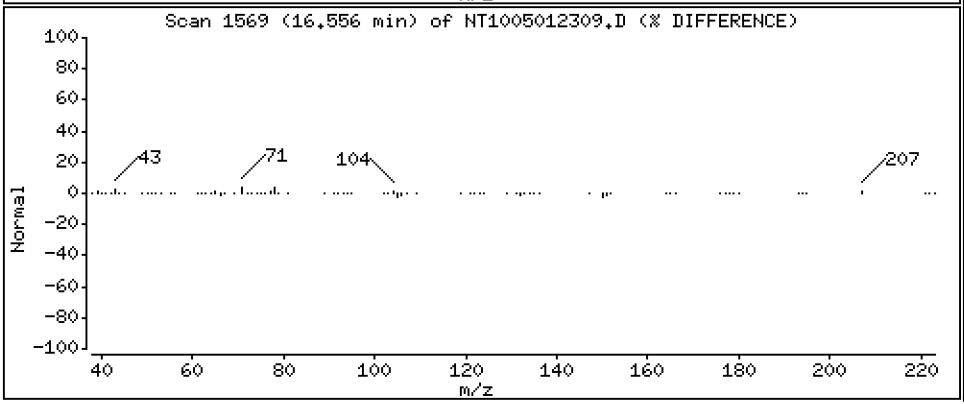












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

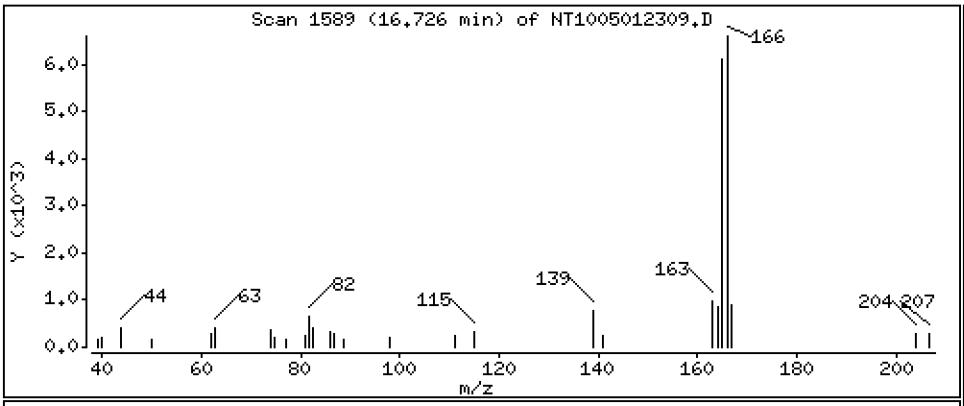
Operator: VTS

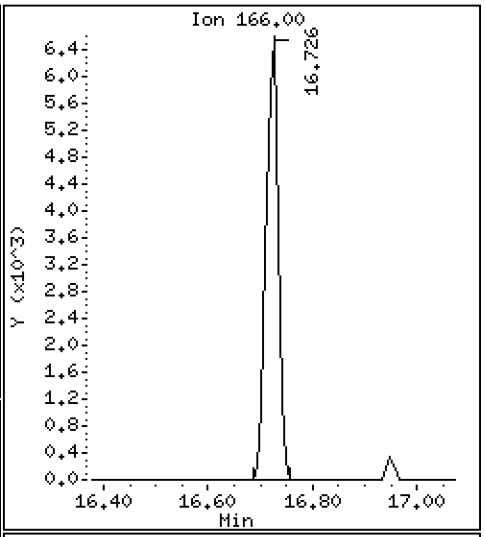
Column phase: ZB-5msi

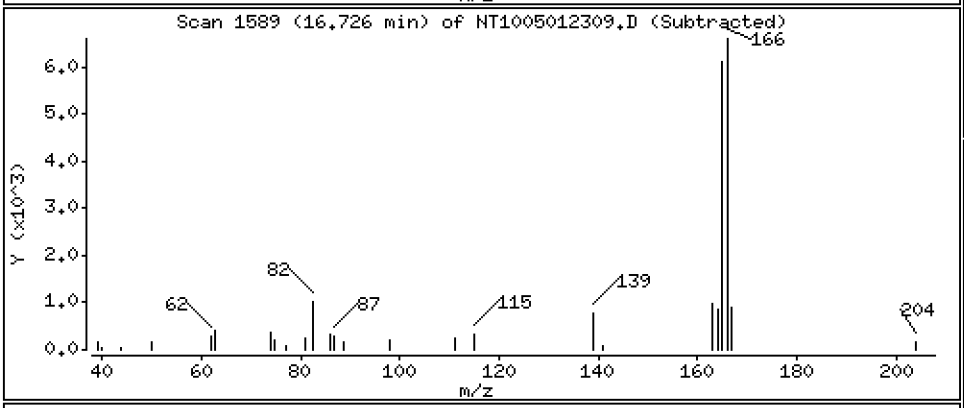
Column diameter: 0.25

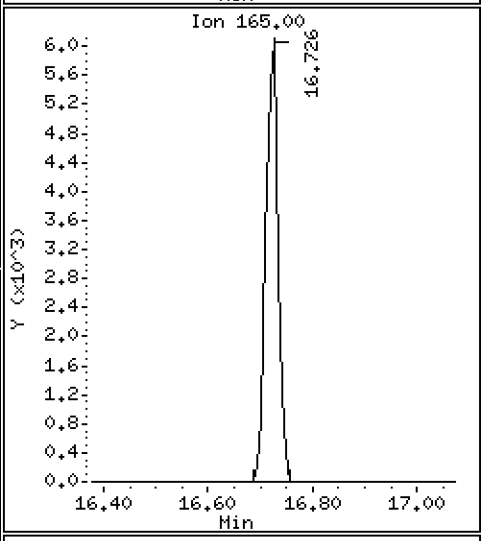
49 Fluorene

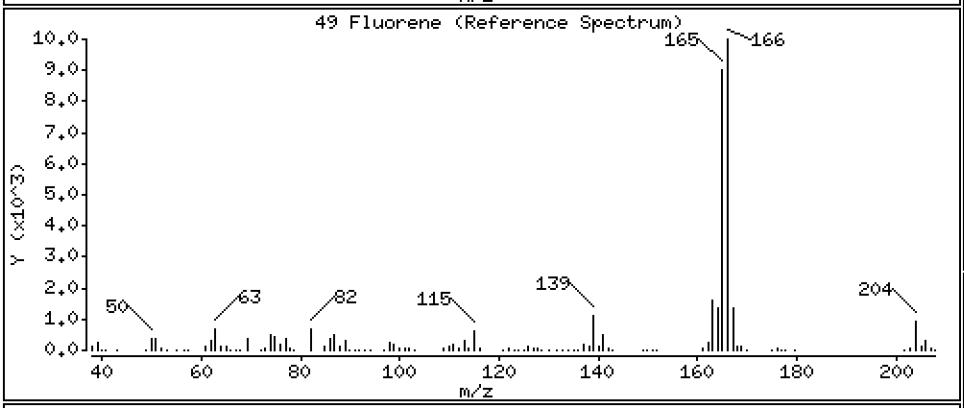
Concentration: 0.09047 ug/mL

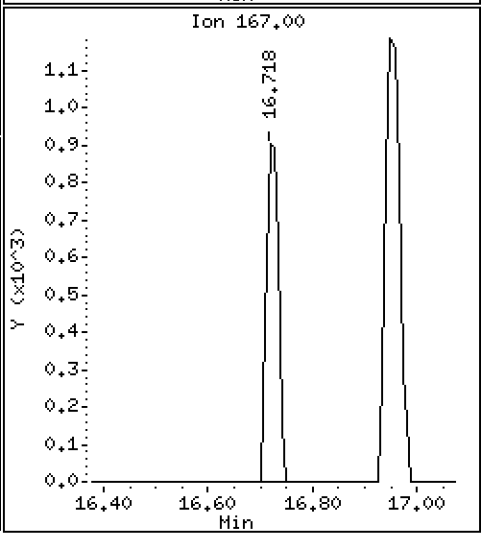


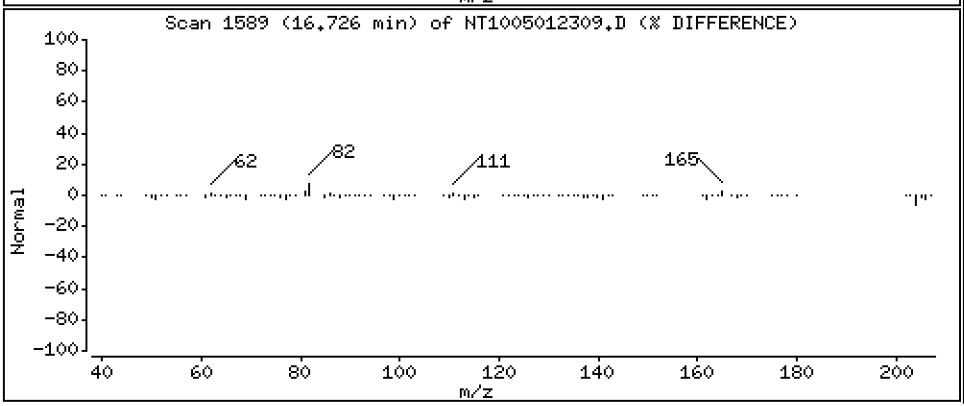












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

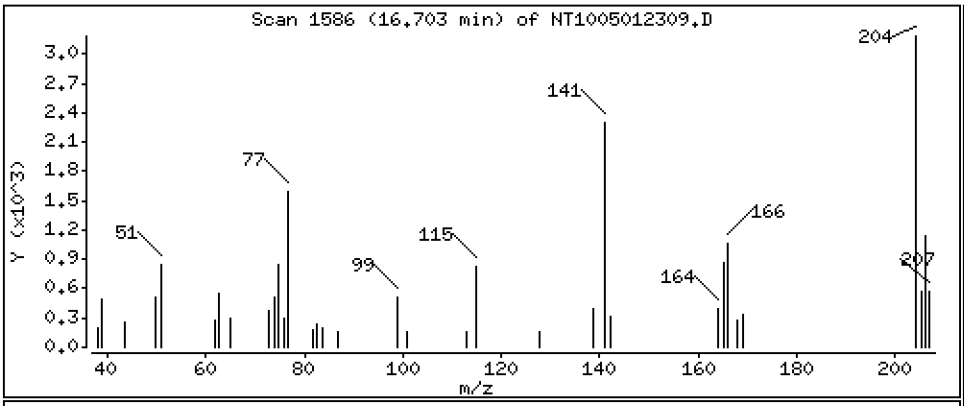
Operator: VTS

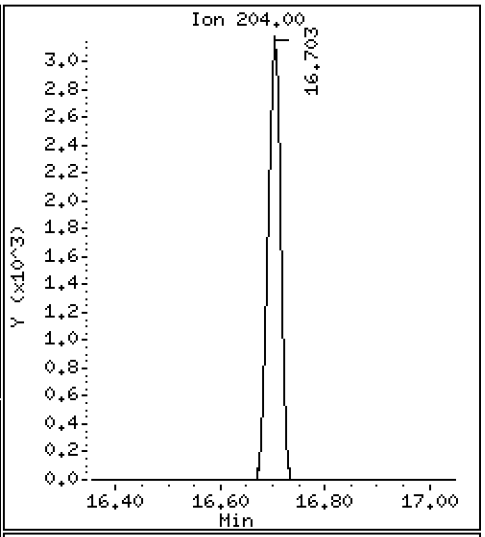
Column phase: ZB-5msi

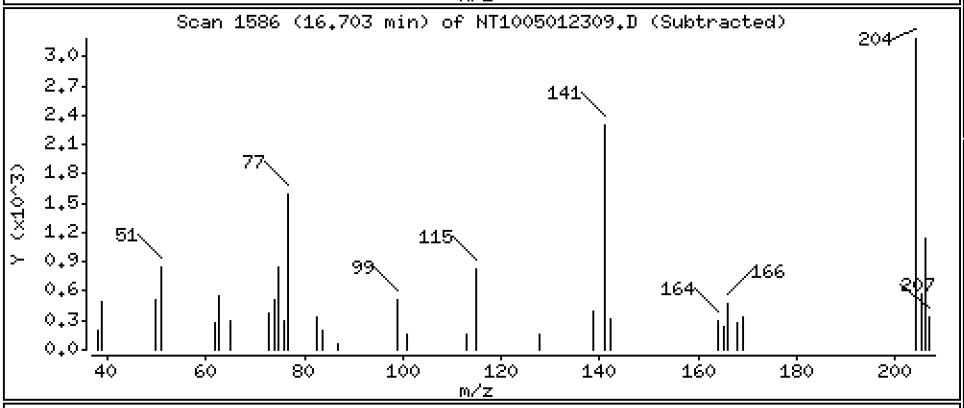
Column diameter: 0.25

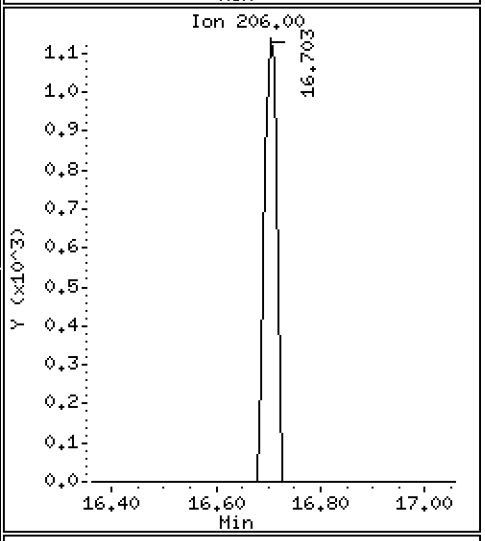
51 4-Chlorophenyl-phenylether

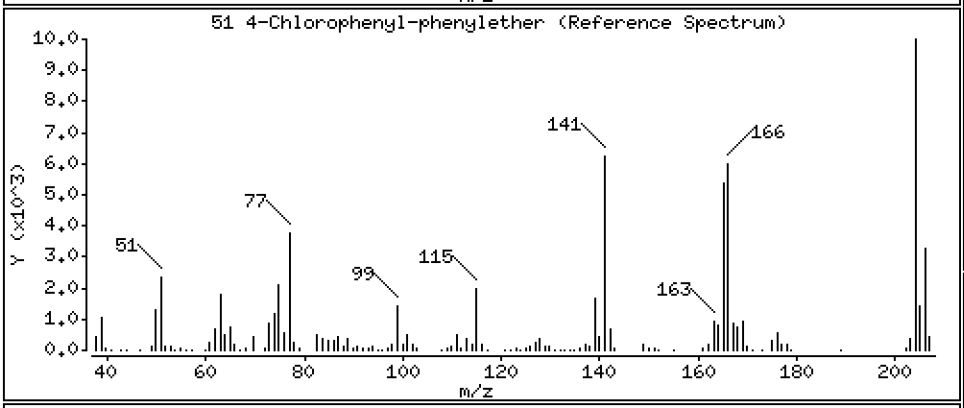
Concentration: 0.09236 ug/mL

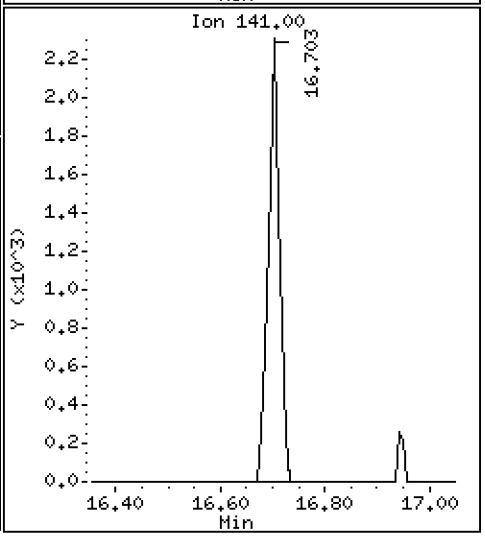


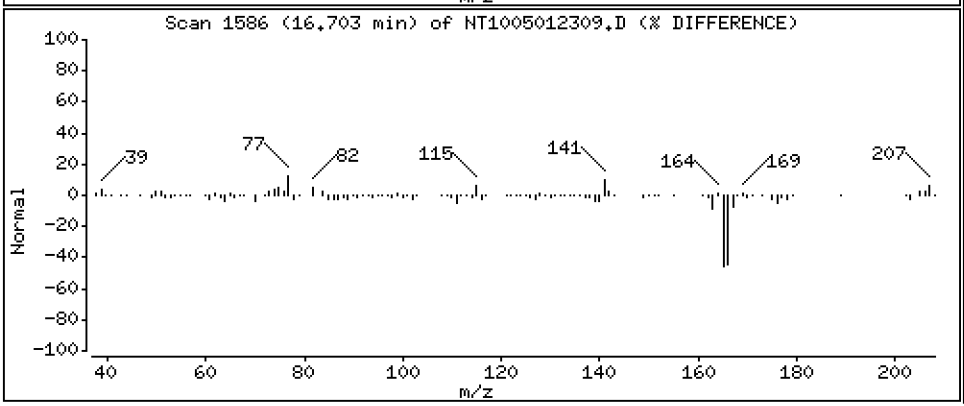












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

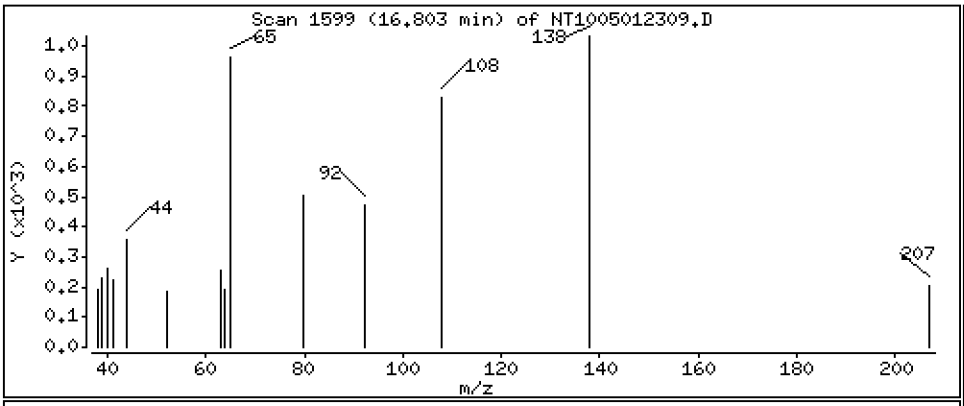
Operator: VTS

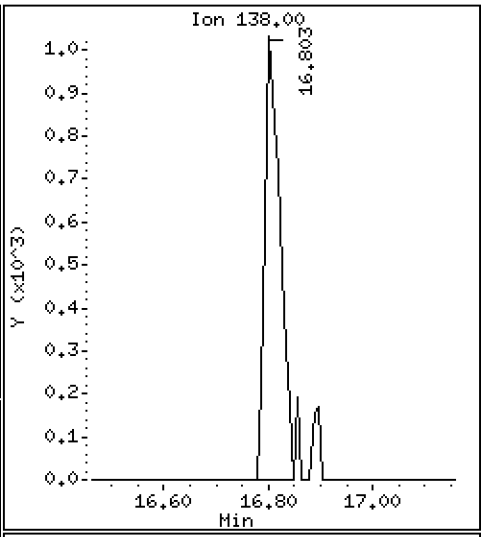
Column phase: ZB-5msi

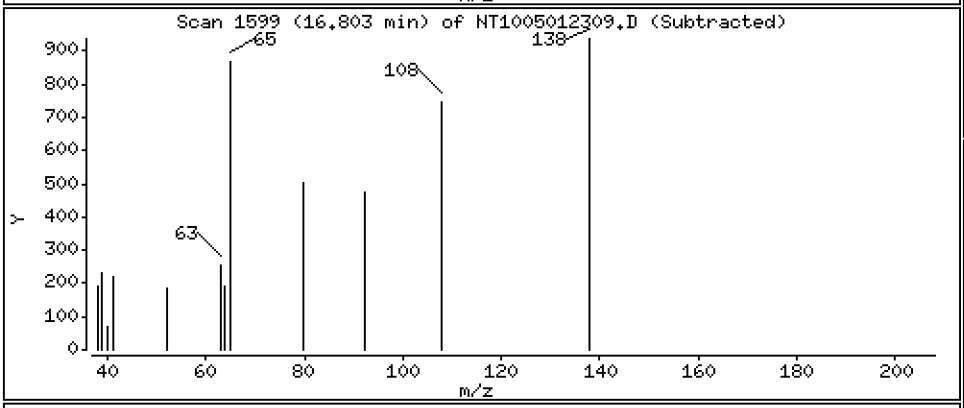
Column diameter: 0.25

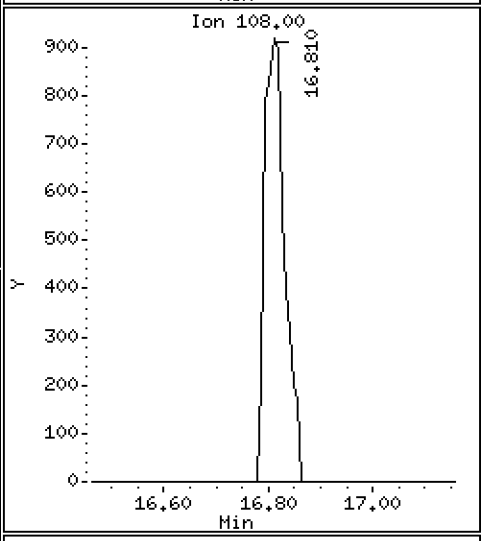
52 4-Nitroaniline

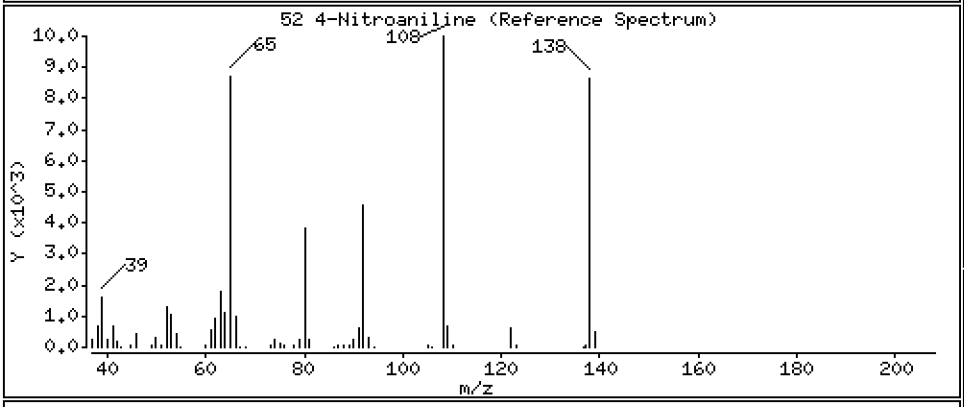
Concentration: 0.08740 ug/mL

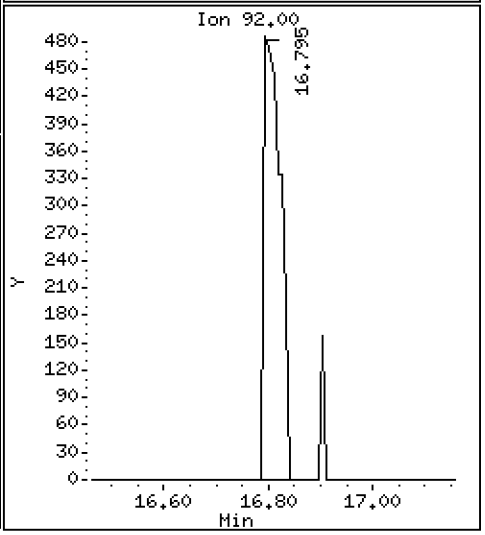


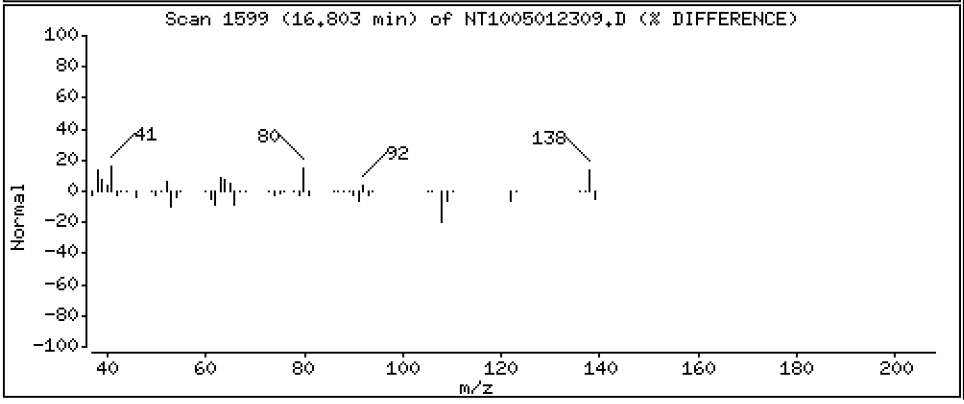












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

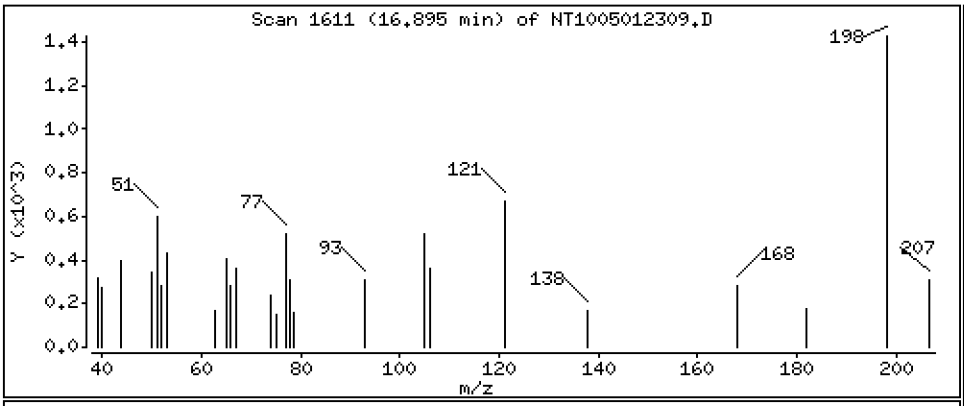
Operator: VTS

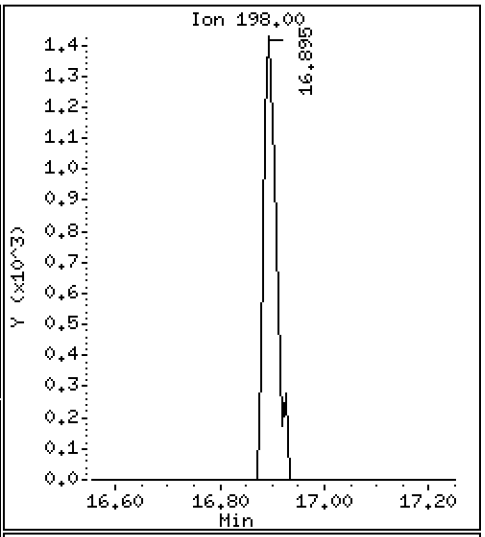
Column phase: ZB-5msi

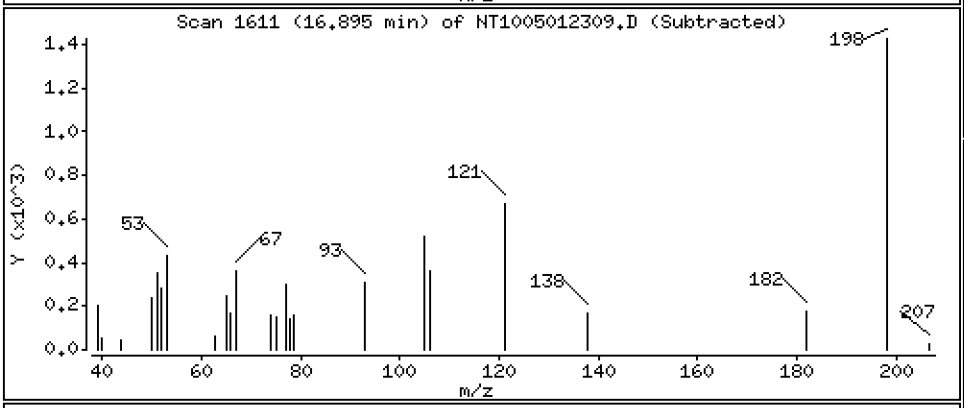
Column diameter: 0.25

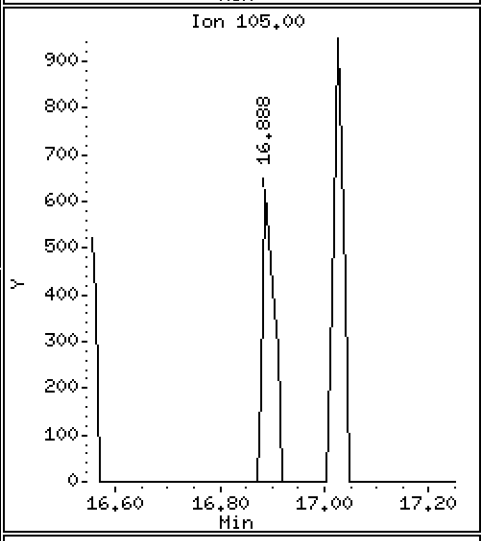
53 4,6-Dinitro-2-methylphenol

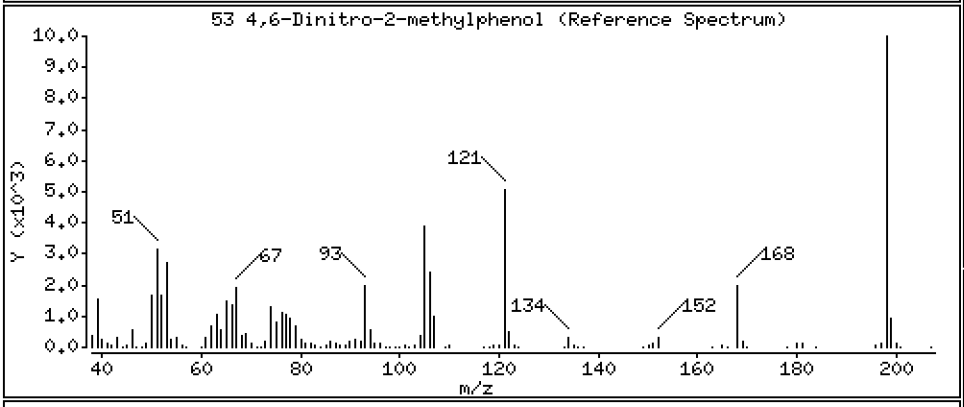
Concentration: 0.1185 ug/mL

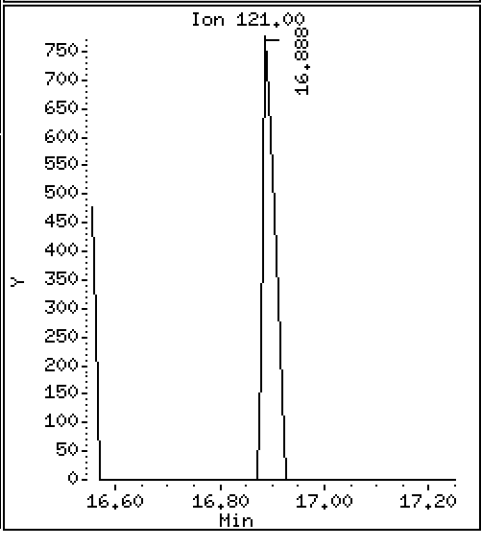


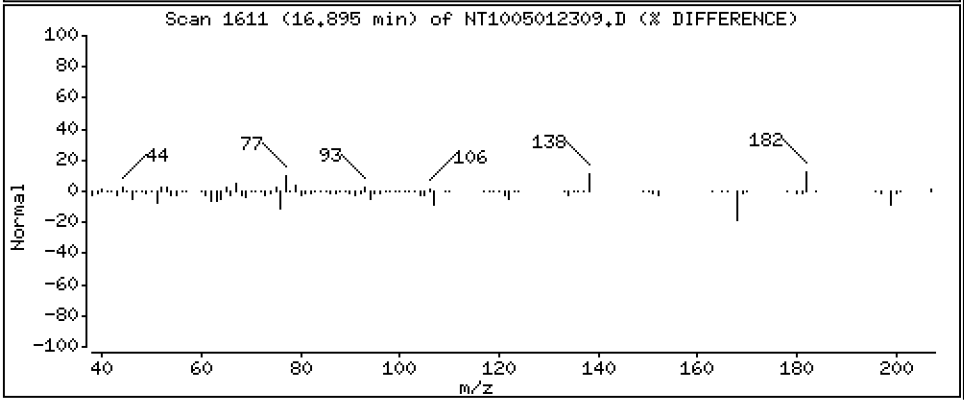












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

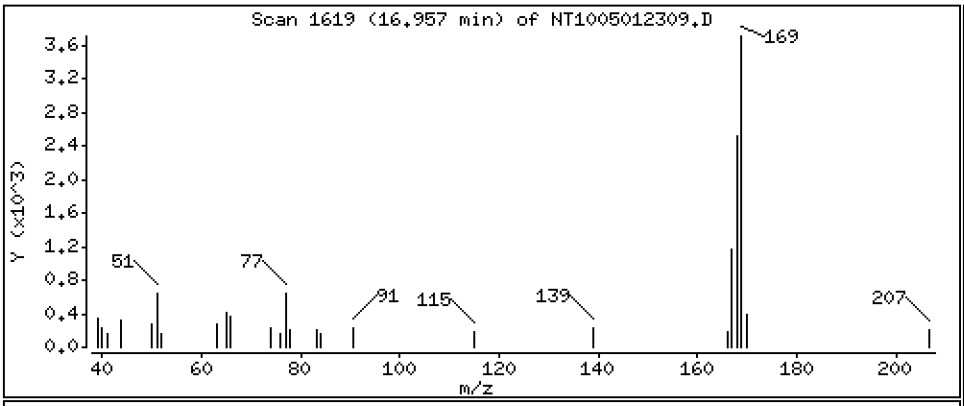
Operator: VTS

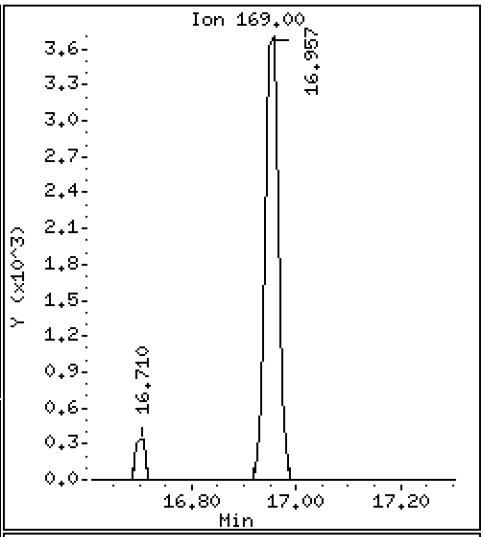
Column phase: ZB-5msi

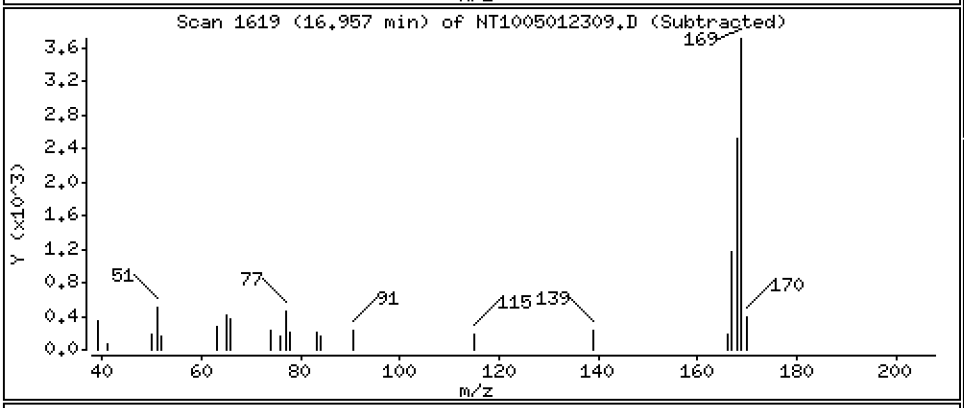
Column diameter: 0.25

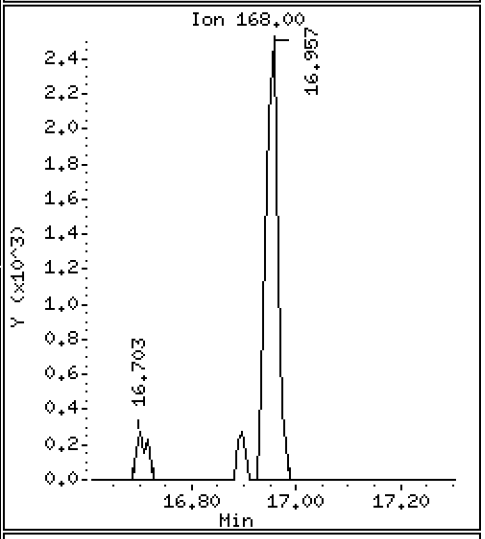
54 N-Nitrosodiphenylamine

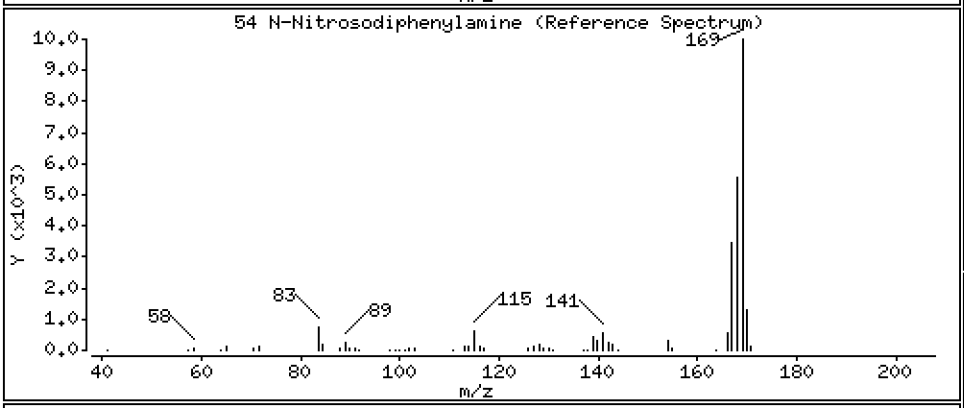
Concentration: 0.09363 ug/mL

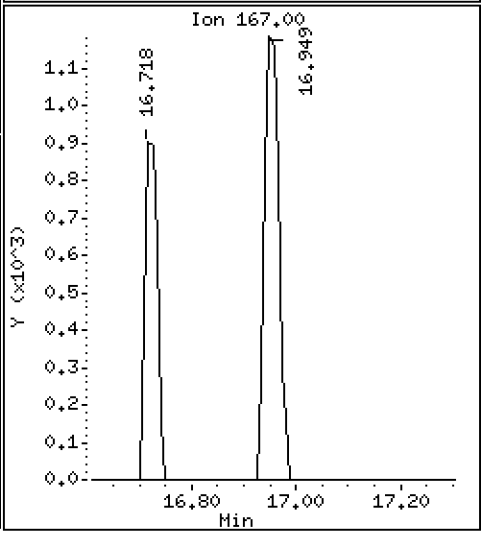


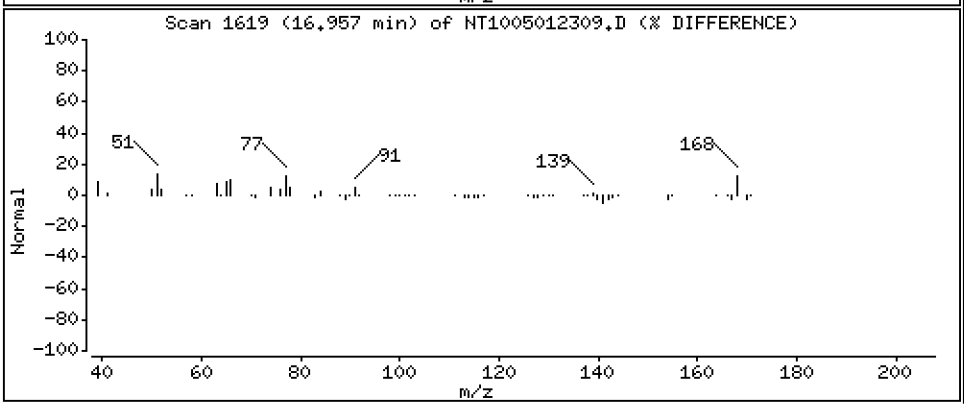












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

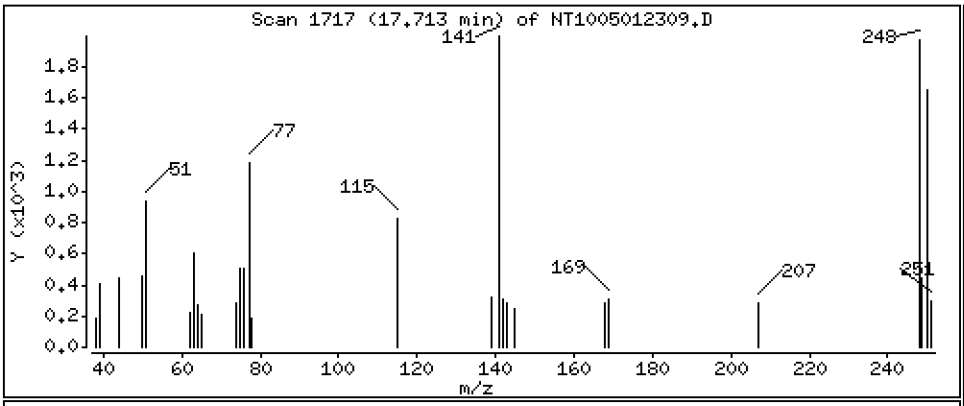
Operator: VTS

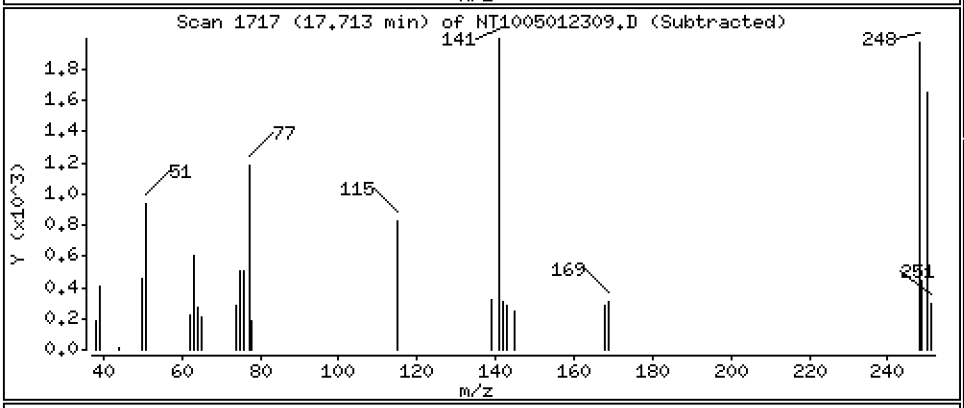
Column phase: ZB-5msi

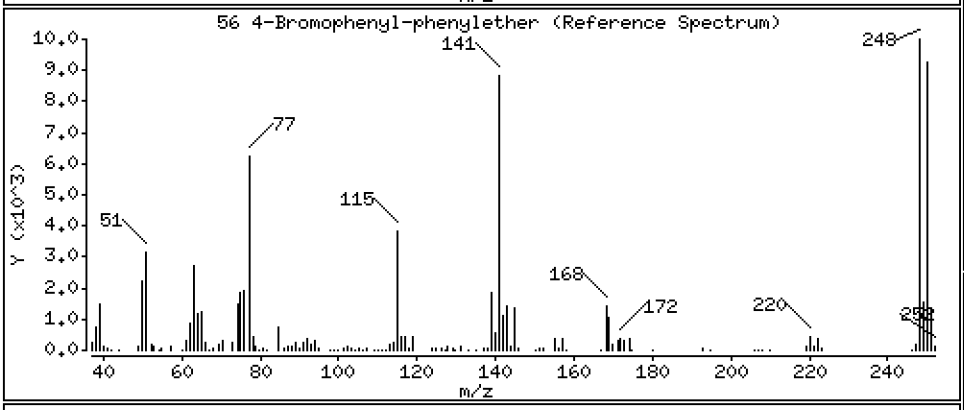
Column diameter: 0.25

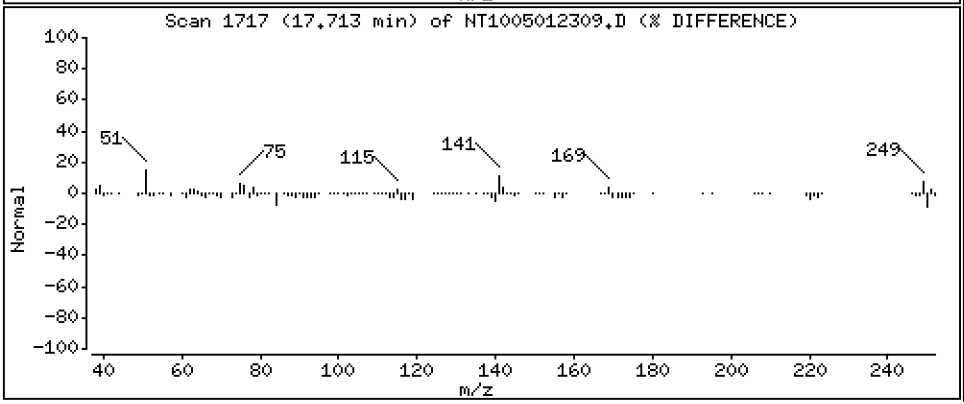
56 4-Bromophenyl-phenylether

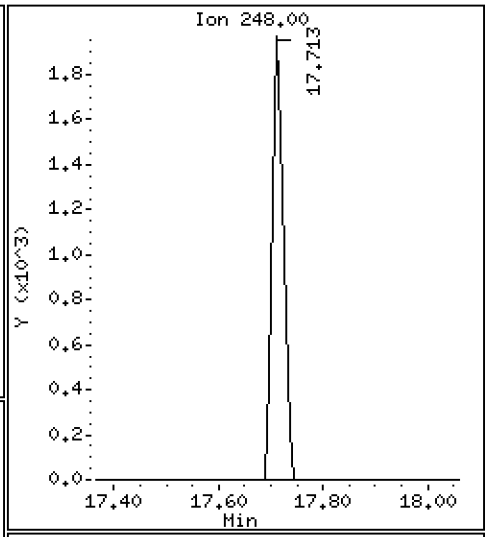
Concentration: 0.09161 ug/mL

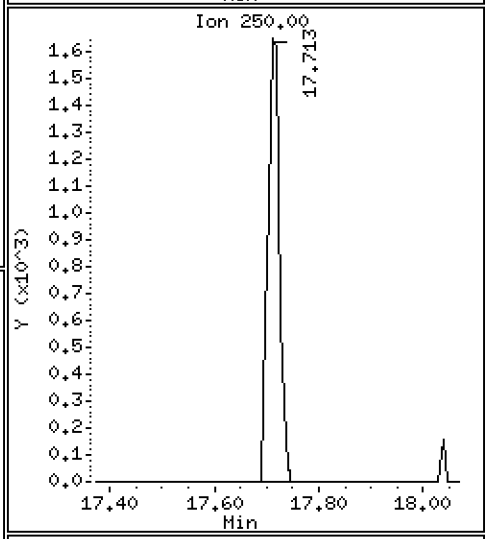


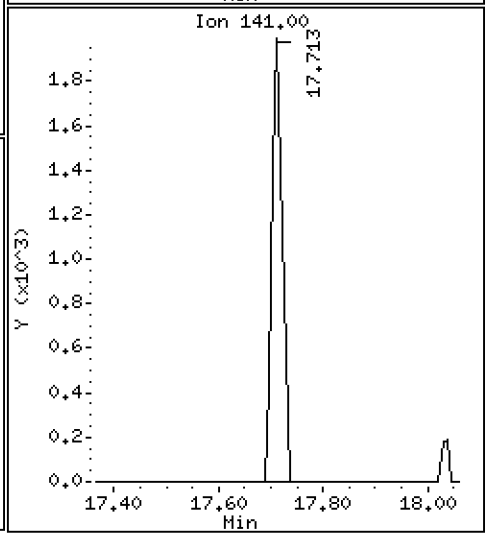












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

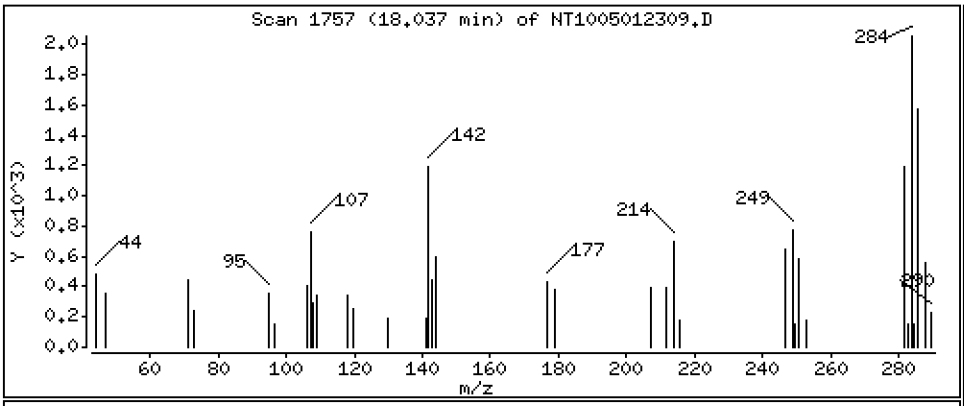
Operator: VTS

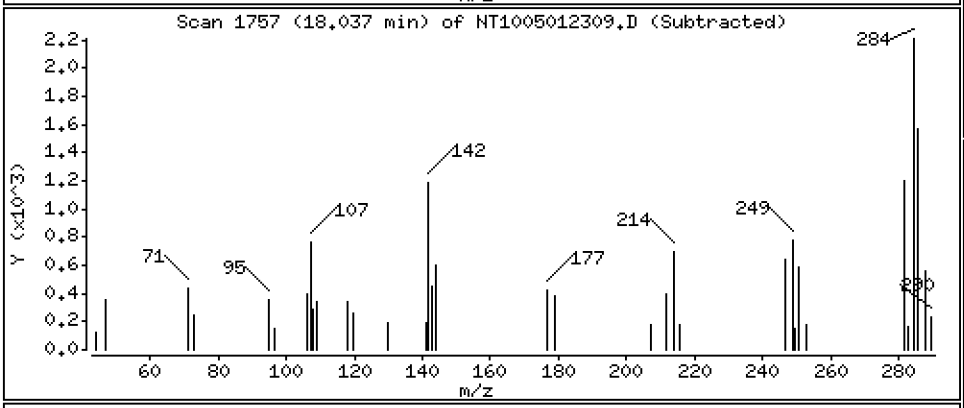
Column phase: ZB-5msi

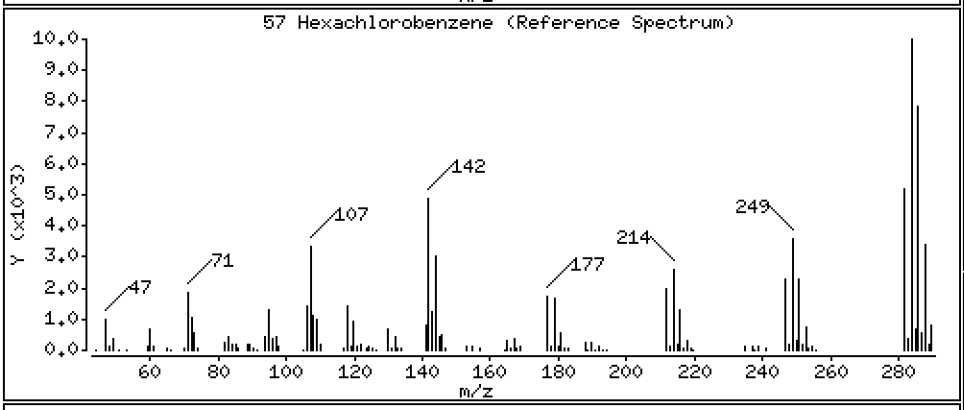
Column diameter: 0.25

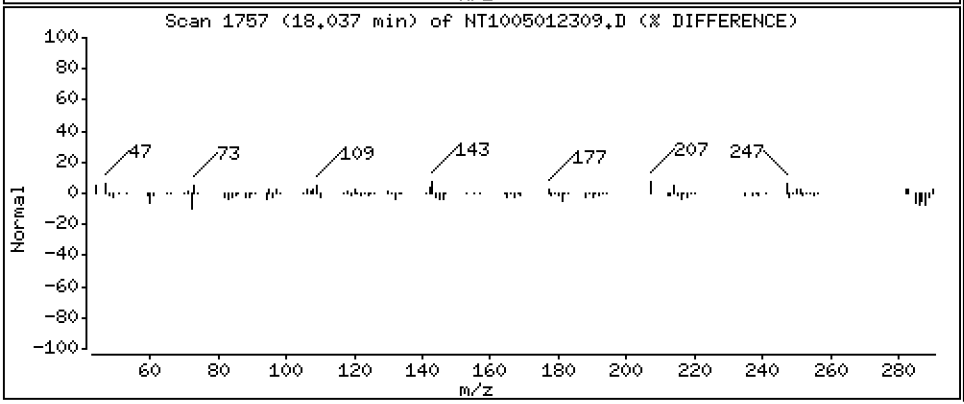
57 Hexachlorobenzene

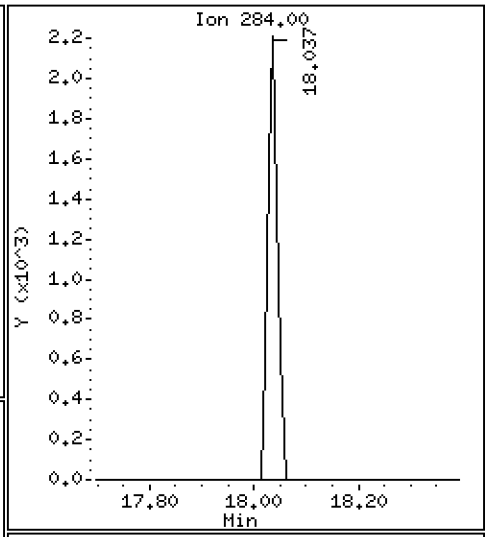
Concentration: 0.09472 ug/mL

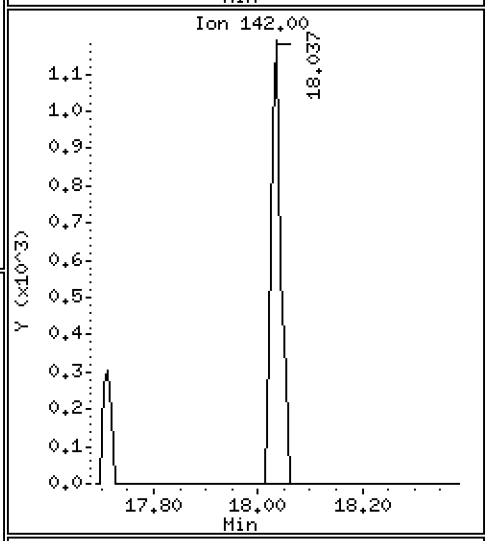


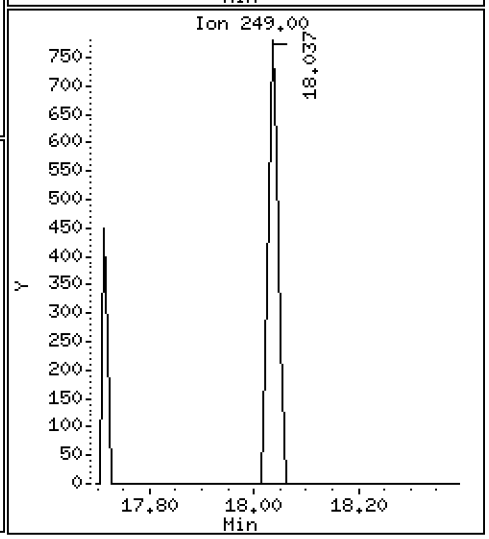












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

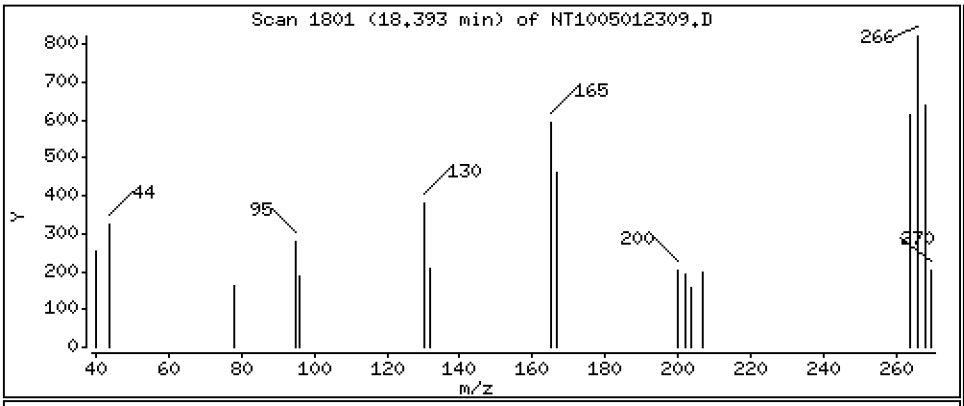
Operator: VTS

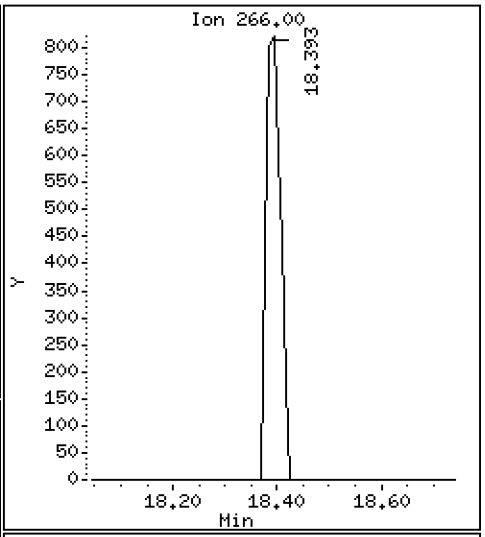
Column phase: ZB-5msi

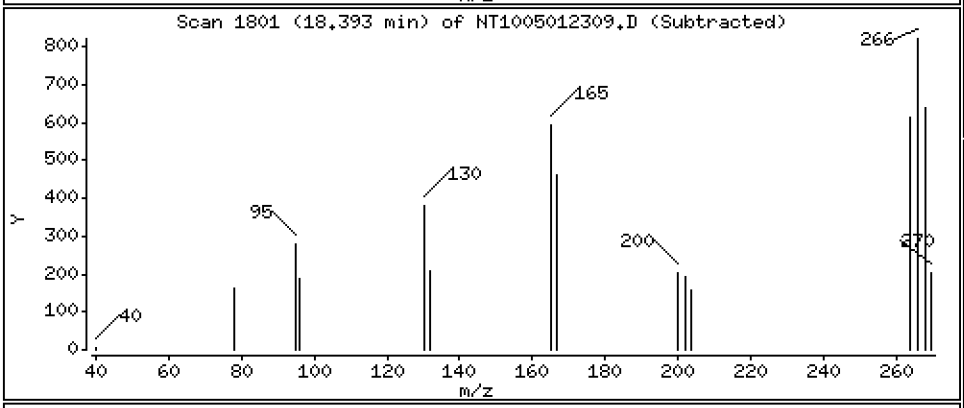
Column diameter: 0.25

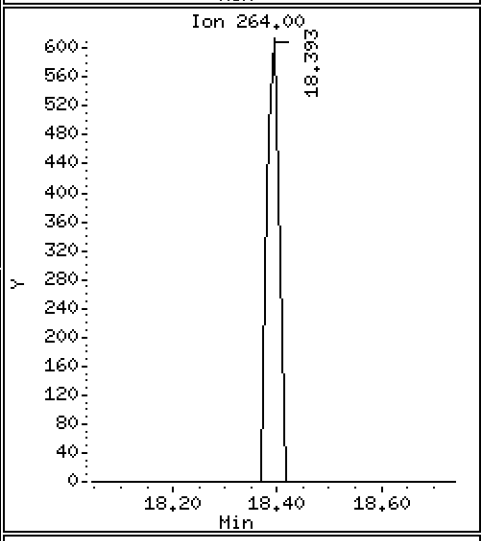
58 Pentachlorophenol

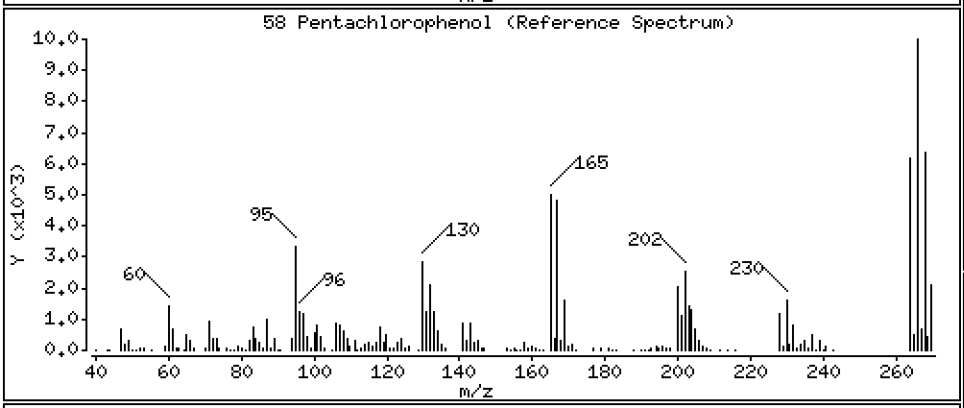
Concentration: 0.07130 ug/mL

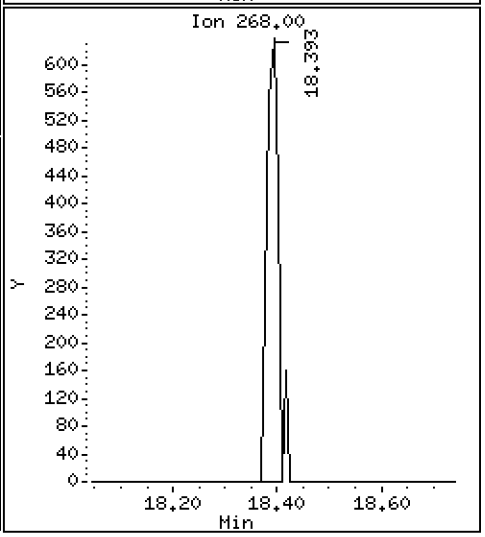


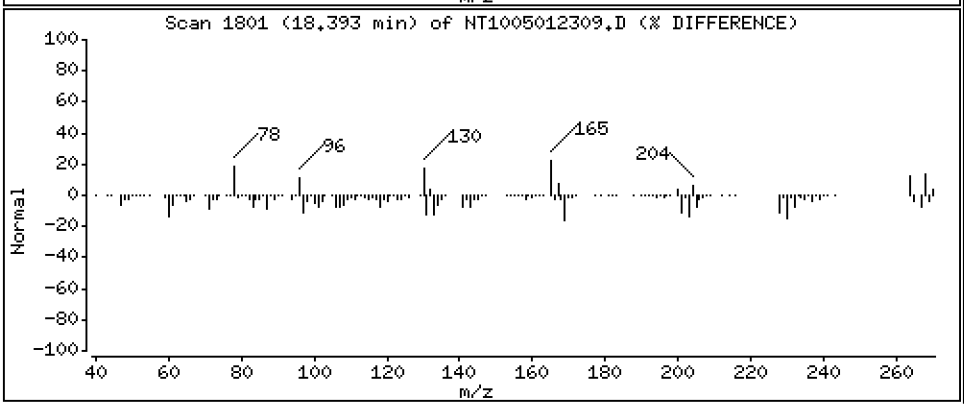












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

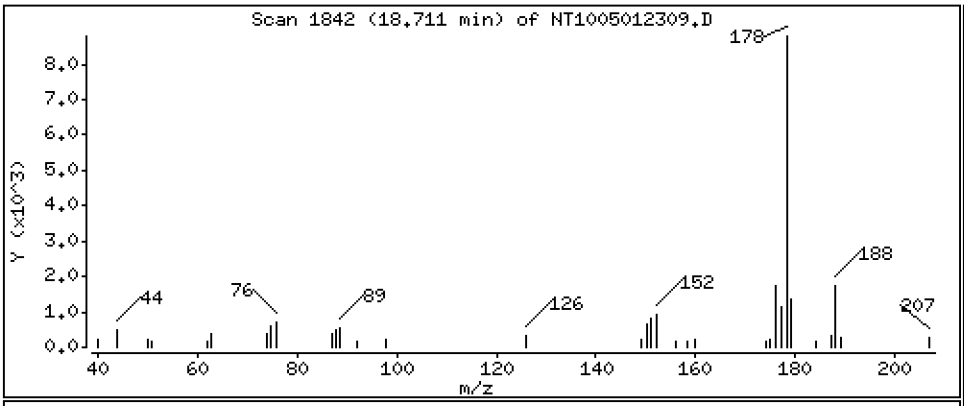
Operator: VTS

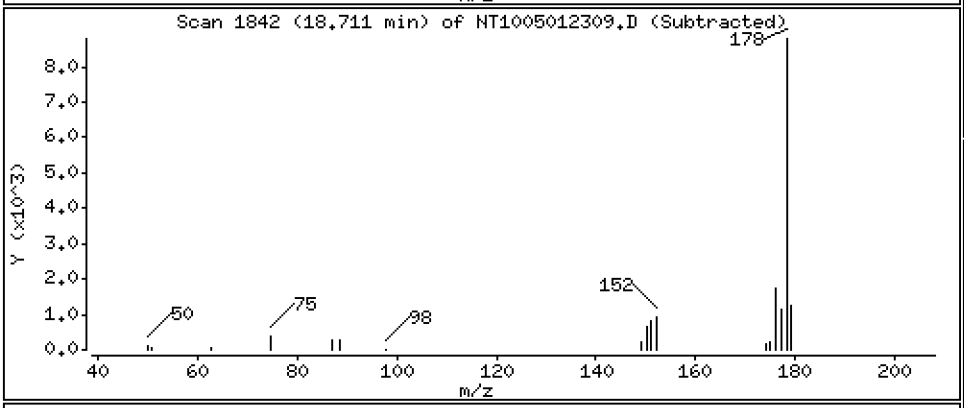
Column phase: ZB-5msi

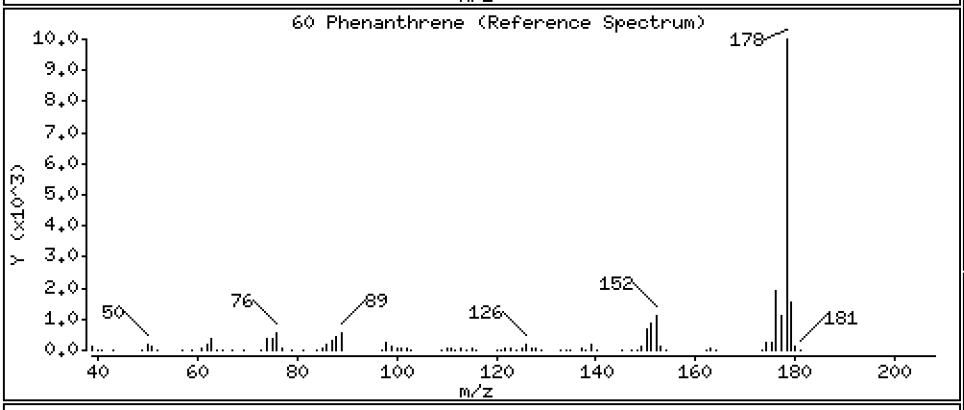
Column diameter: 0.25

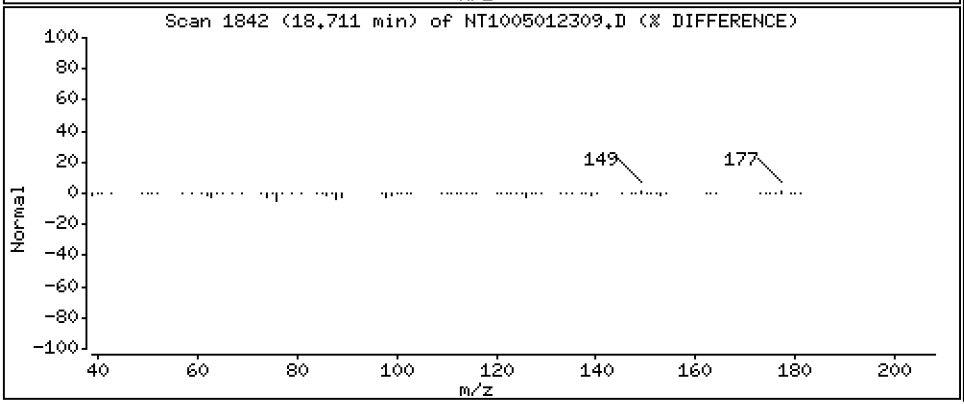
60 Phenanthrene

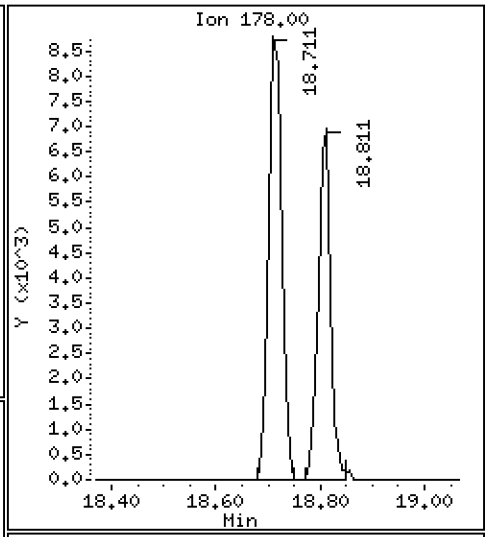
Concentration: 0.1001 ug/mL

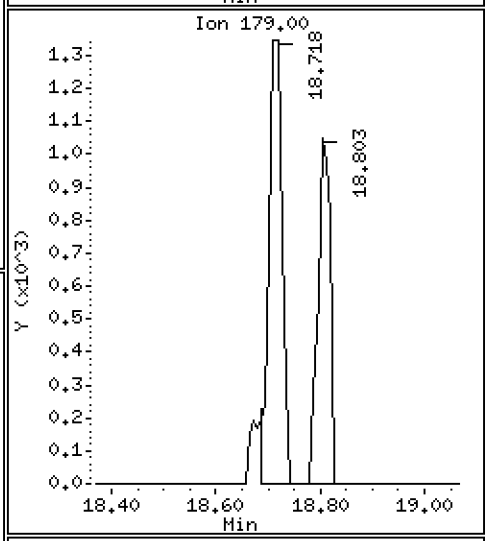


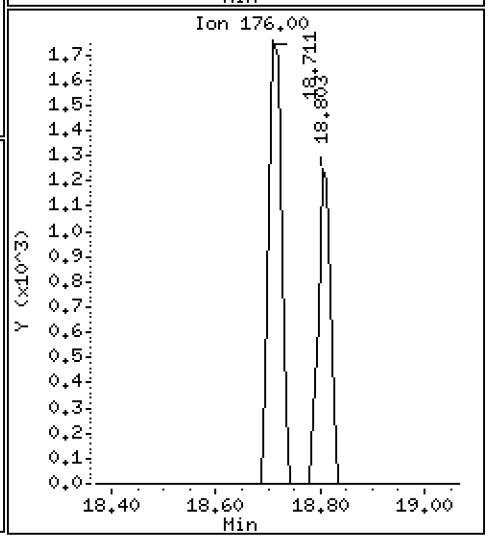












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

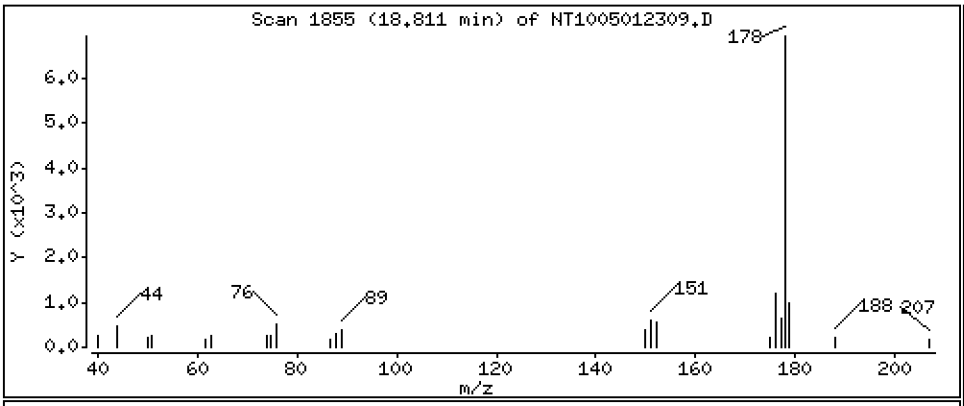
Operator: VTS

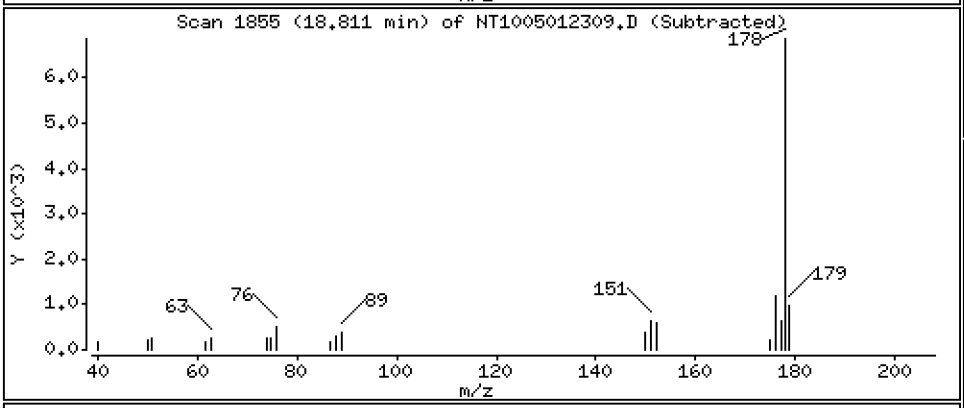
Column phase: ZB-5msi

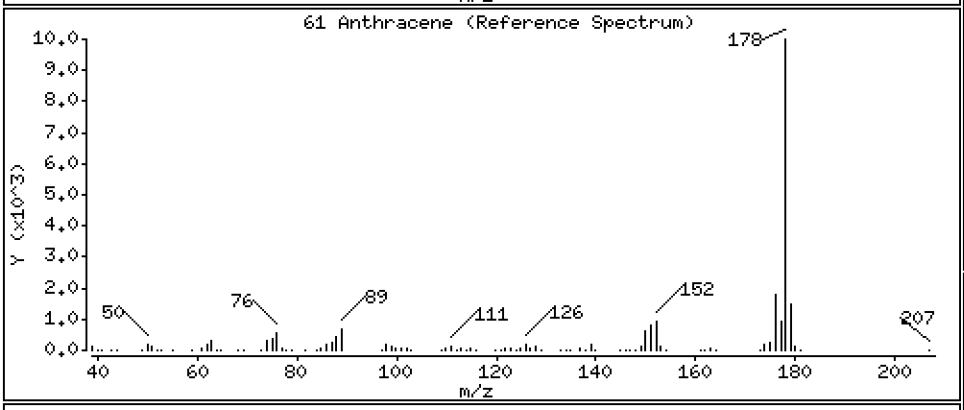
Column diameter: 0.25

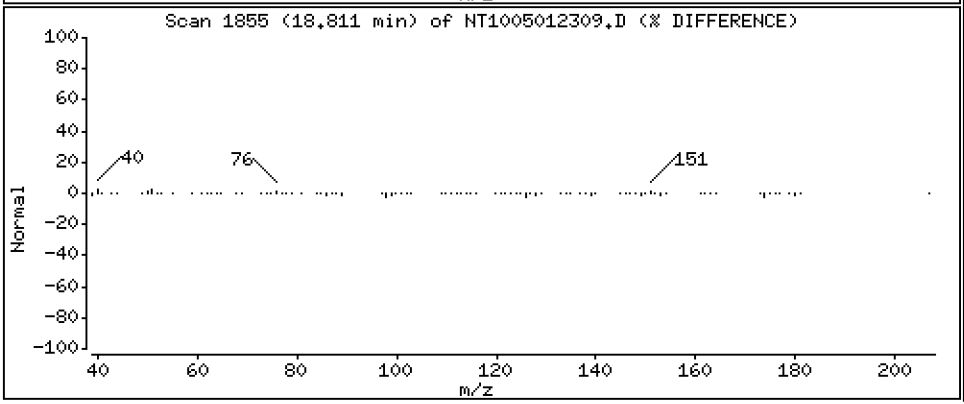
61 Anthracene

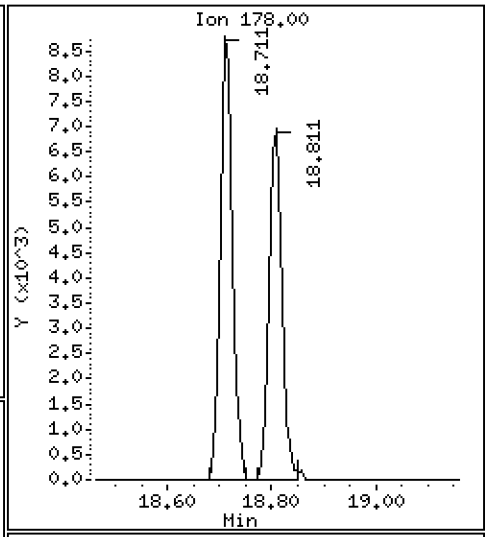
Concentration: 0.08440 ug/mL

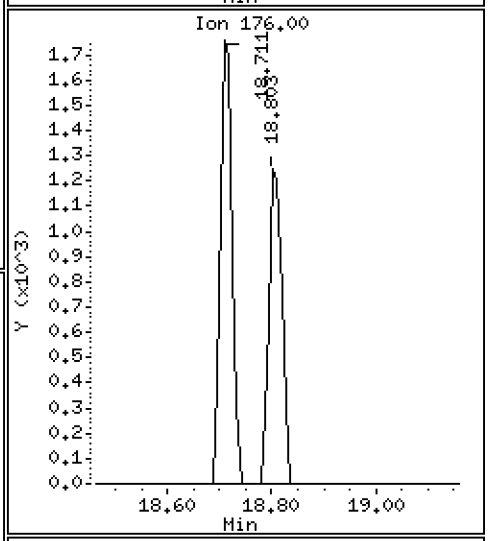


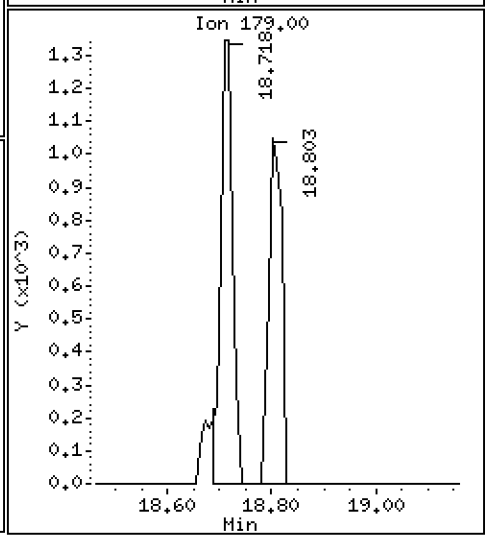












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

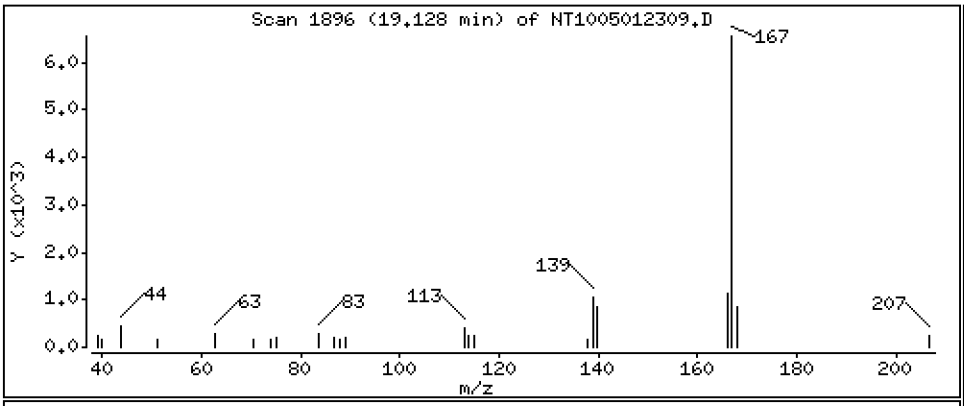
Operator: VTS

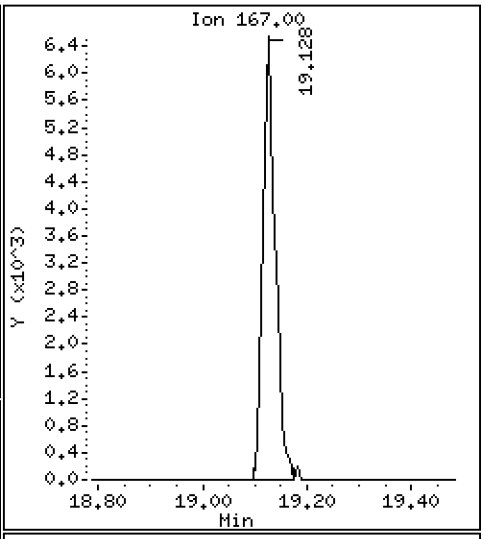
Column phase: ZB-5msi

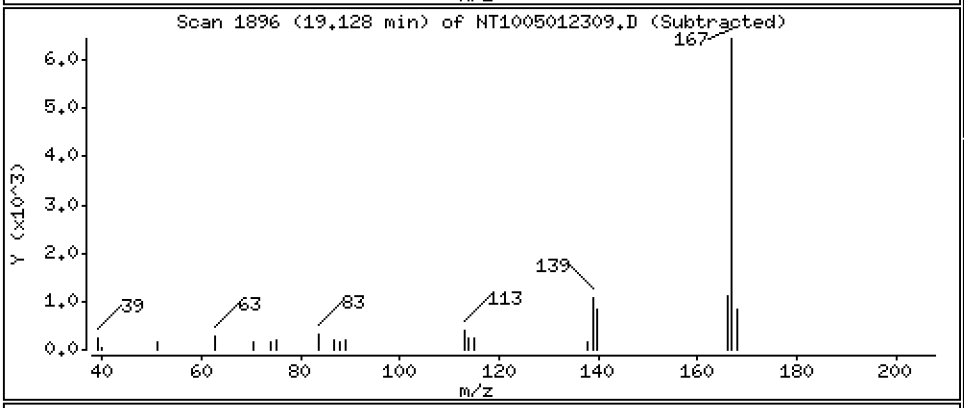
Column diameter: 0.25

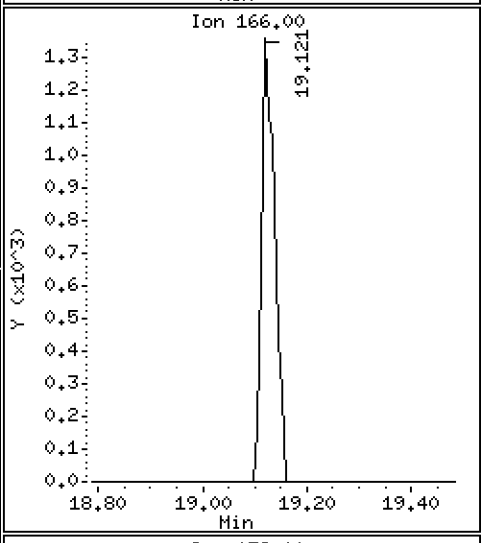
62 Carbazole

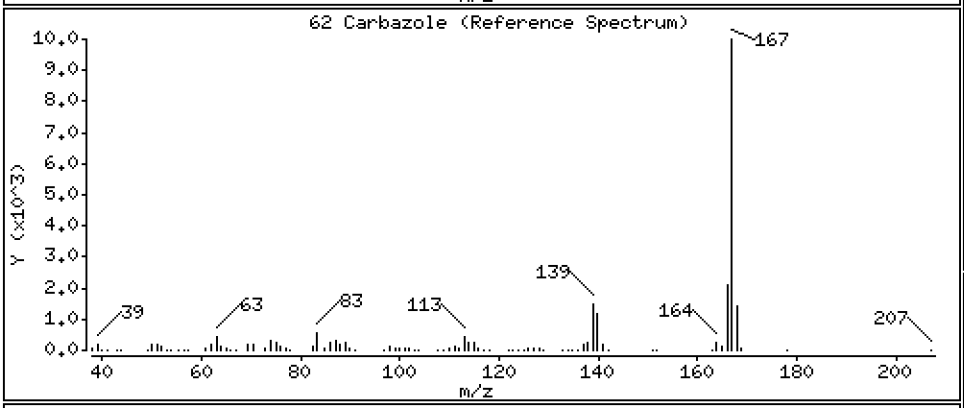
Concentration: 0.08894 ug/mL

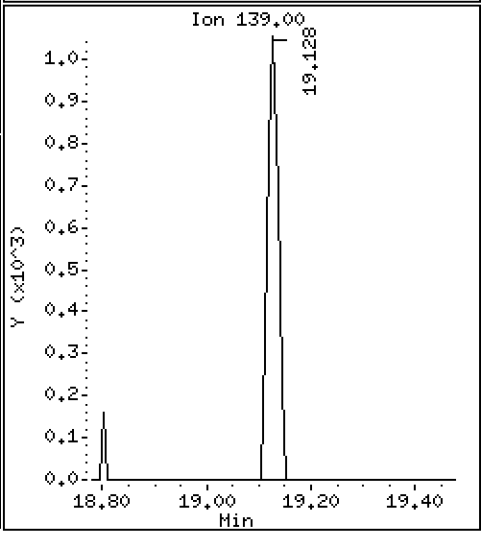


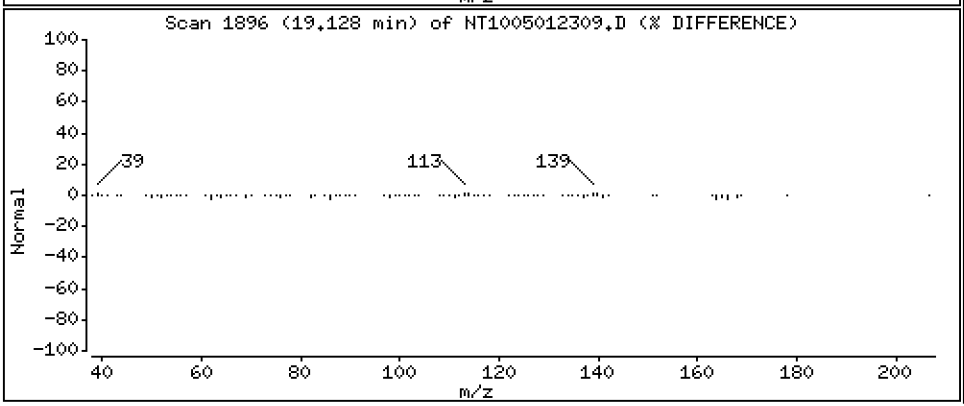












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

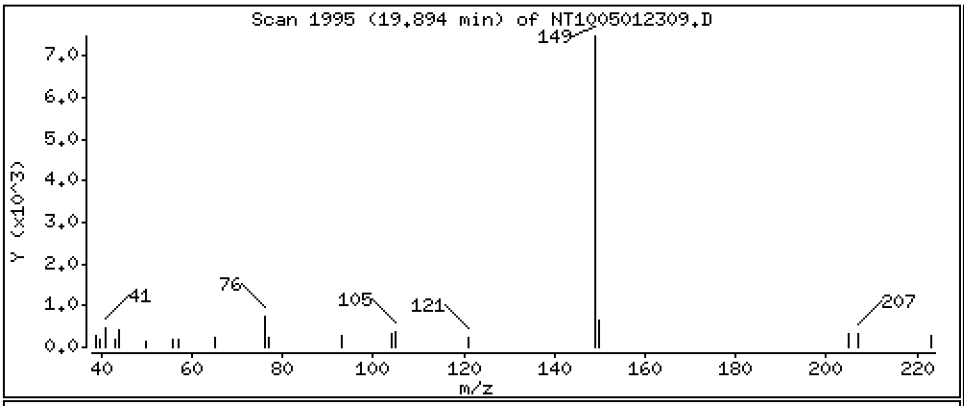
Operator: VTS

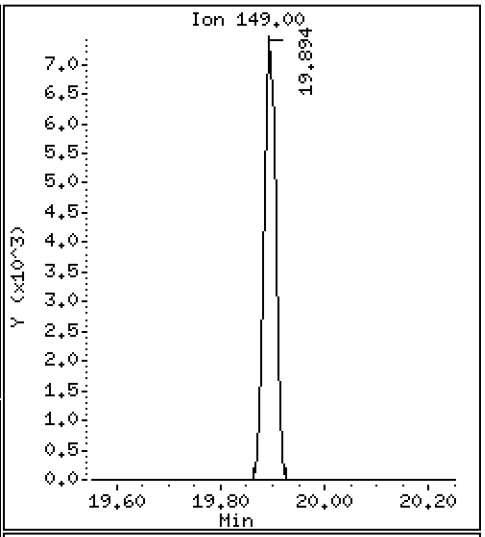
Column phase: ZB-5msi

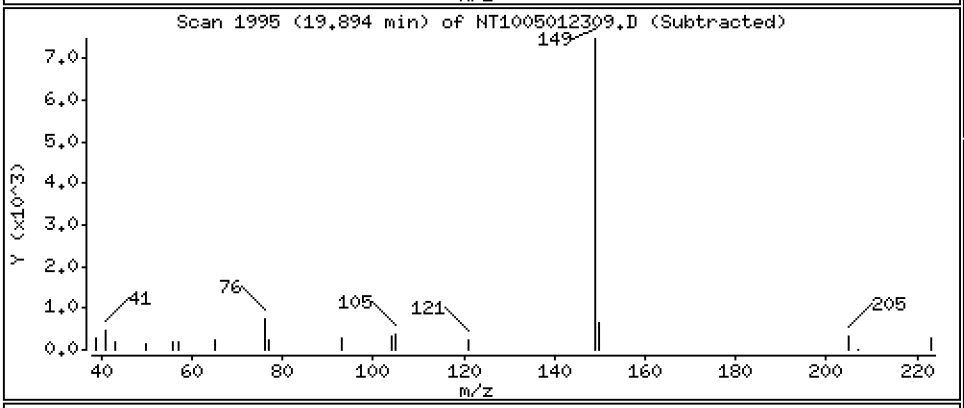
Column diameter: 0.25

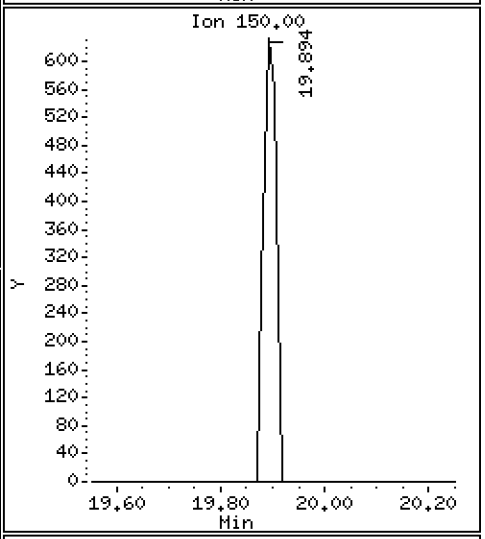
63 Di-n-butylphthalate

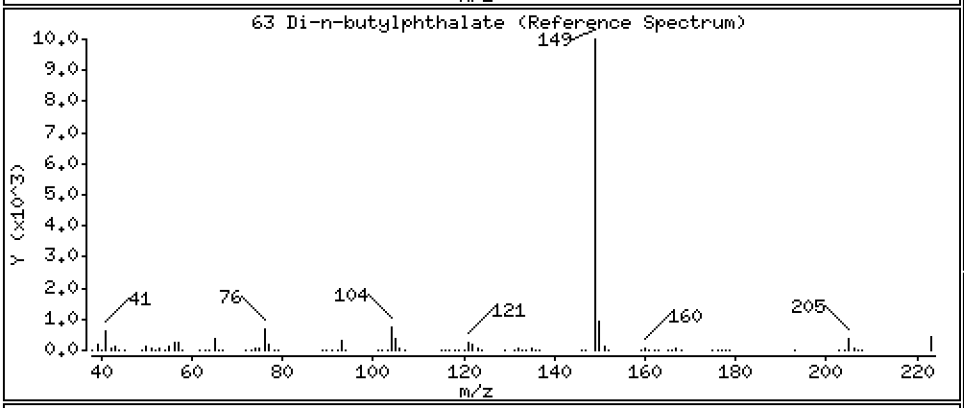
Concentration: 0.06031 ug/mL

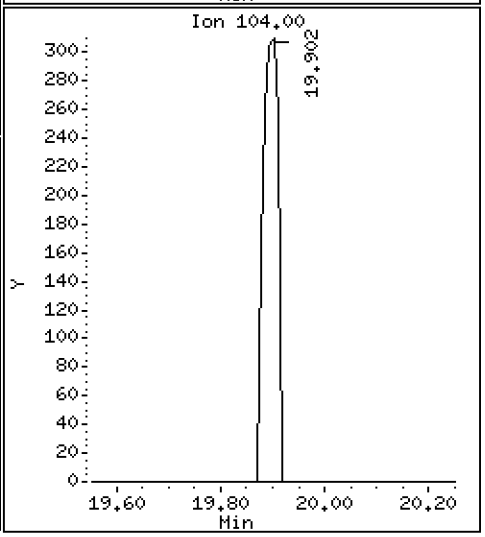


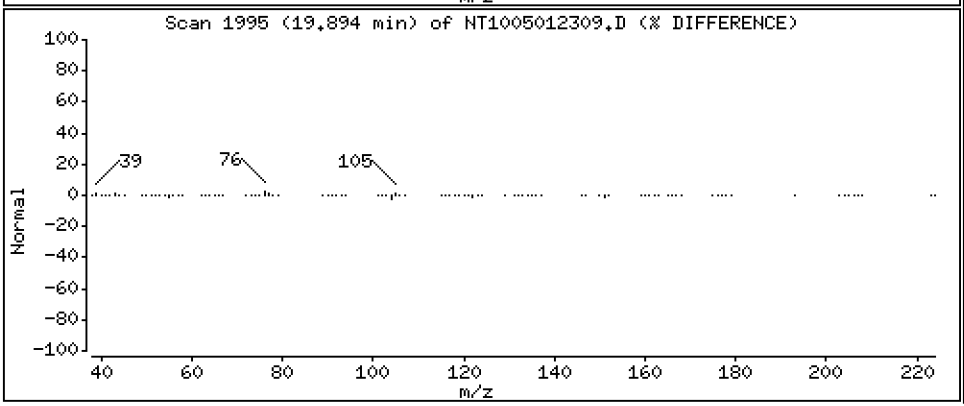












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

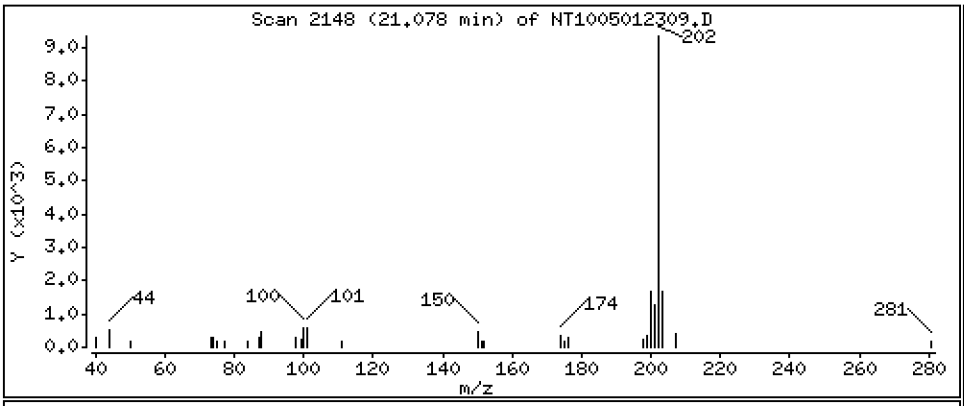
Operator: VTS

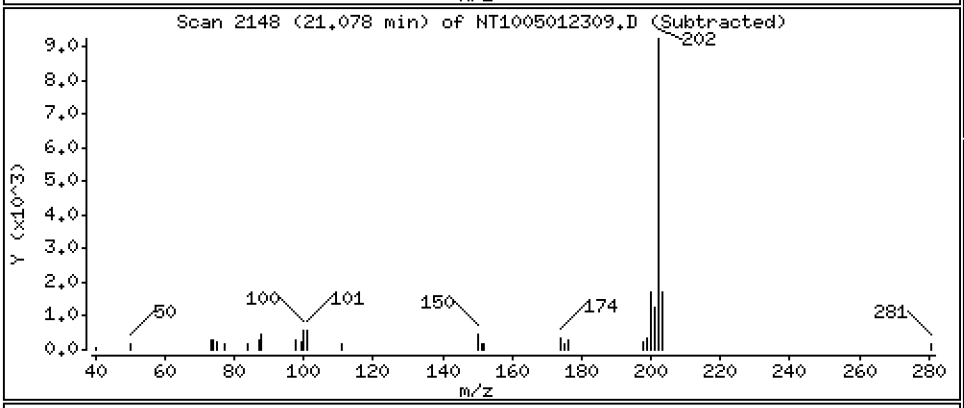
Column phase: ZB-5msi

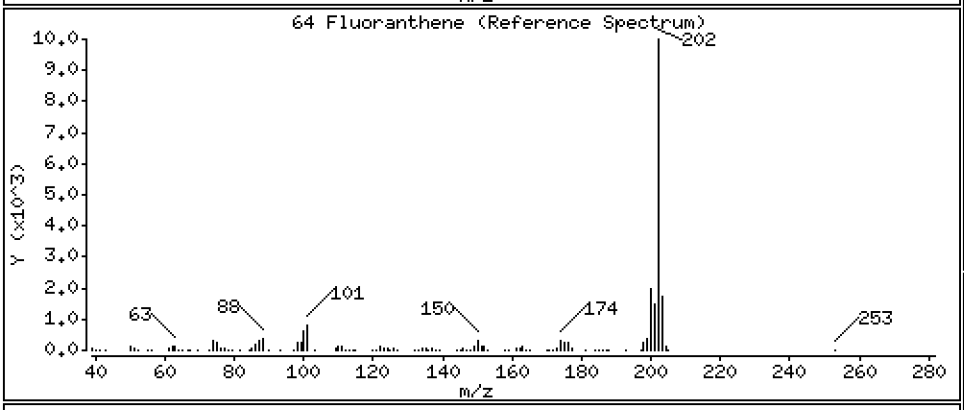
Column diameter: 0.25

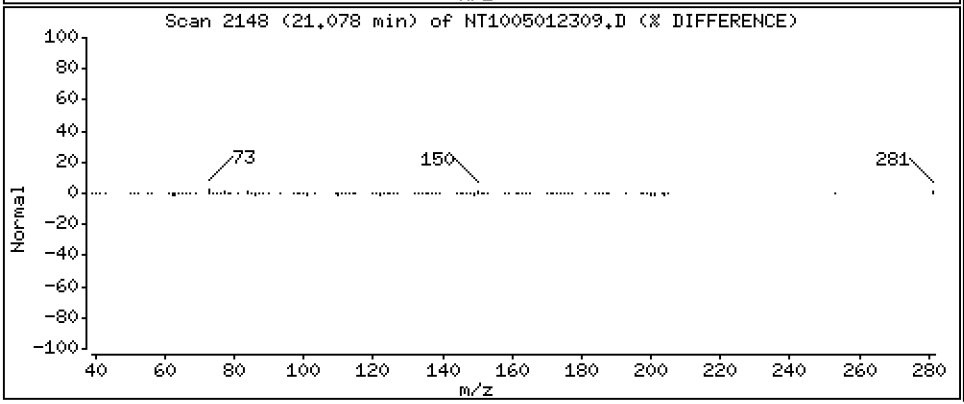
64 Fluoranthene

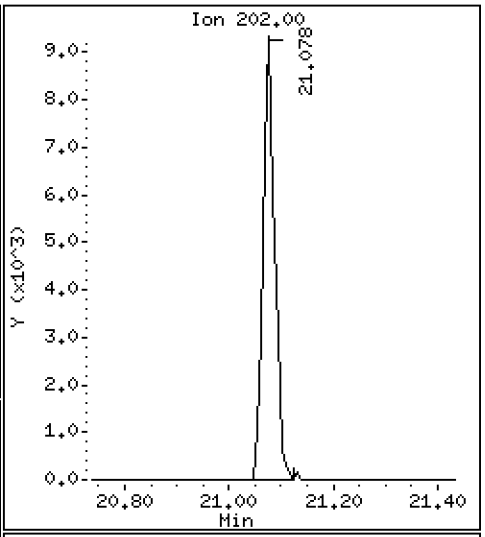
Concentration: 0.07954 ug/mL

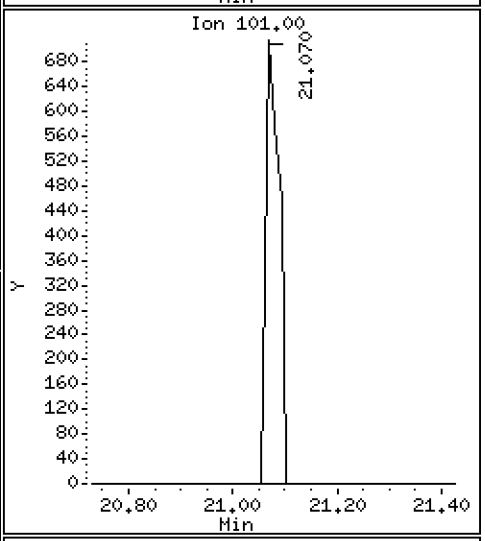


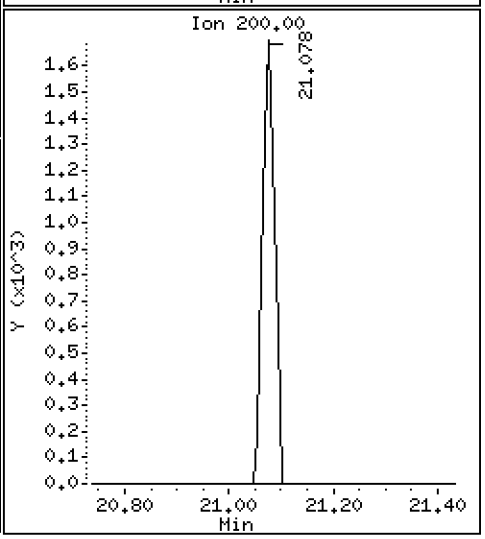












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

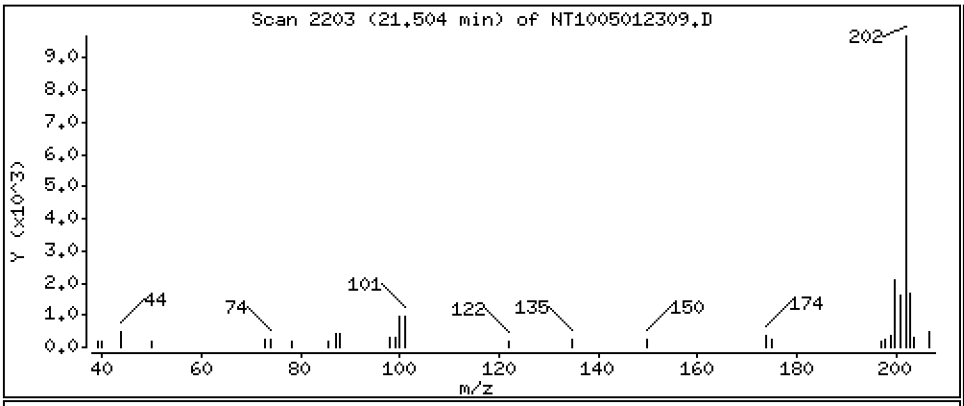
Operator: VTS

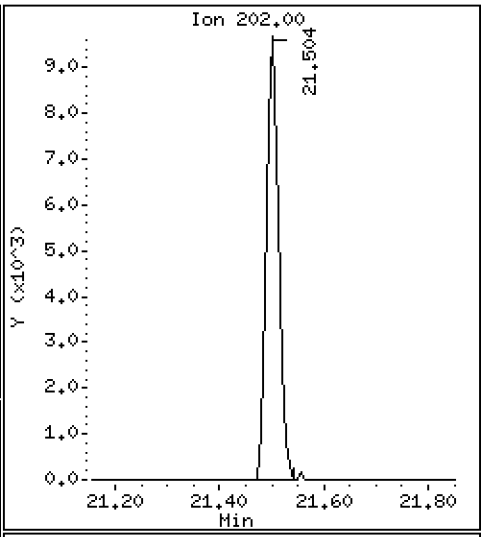
Column phase: ZB-5msi

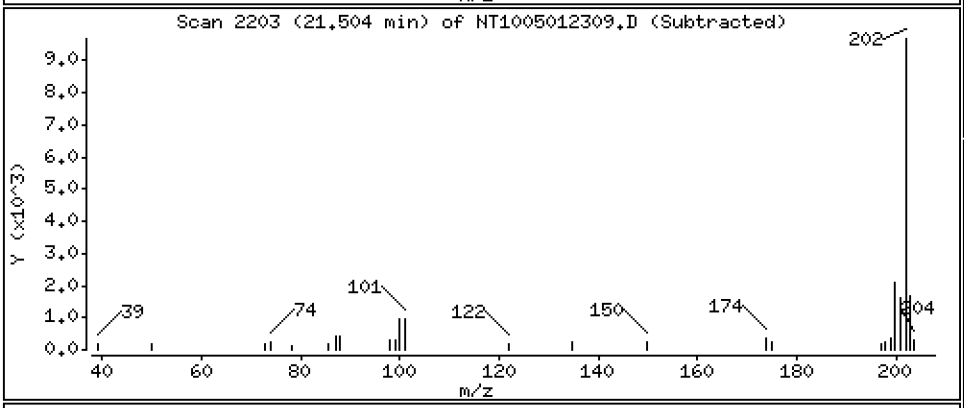
Column diameter: 0.25

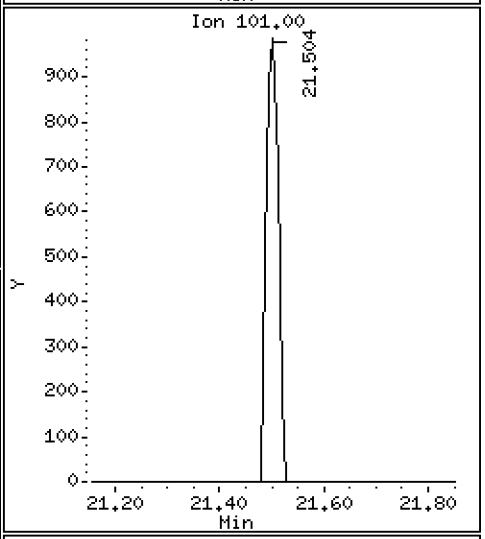
65 Pyrene

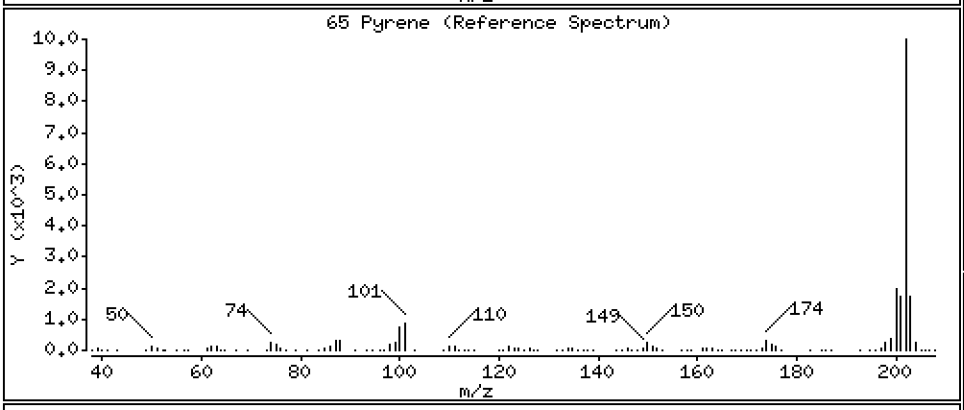
Concentration: 0.08353 ug/mL

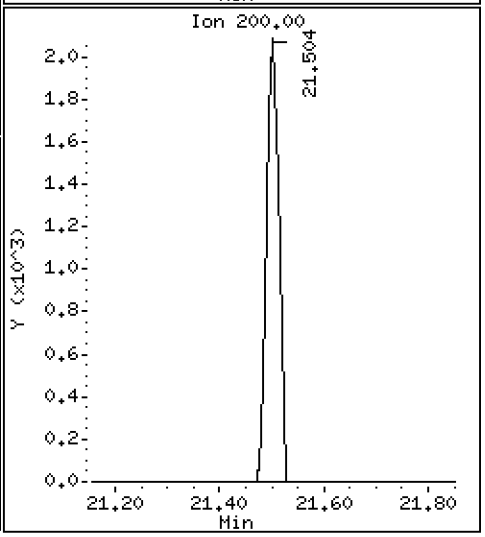


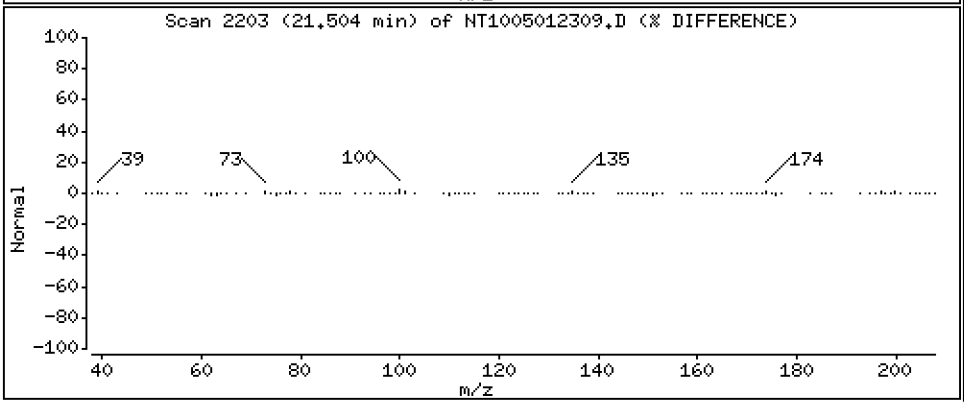












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

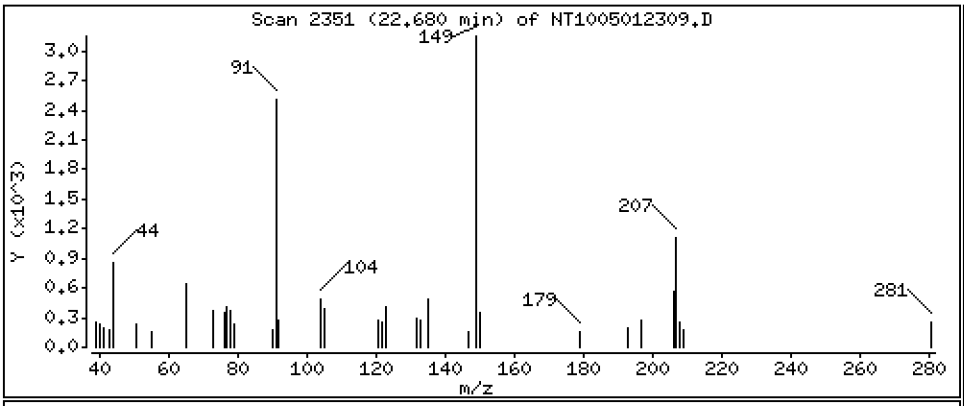
Operator: VTS

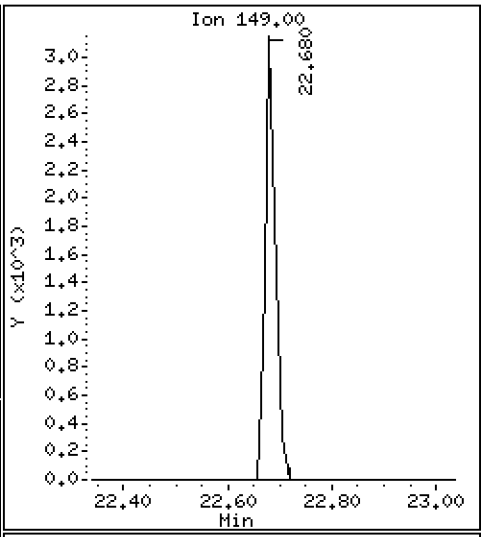
Column phase: ZB-5msi

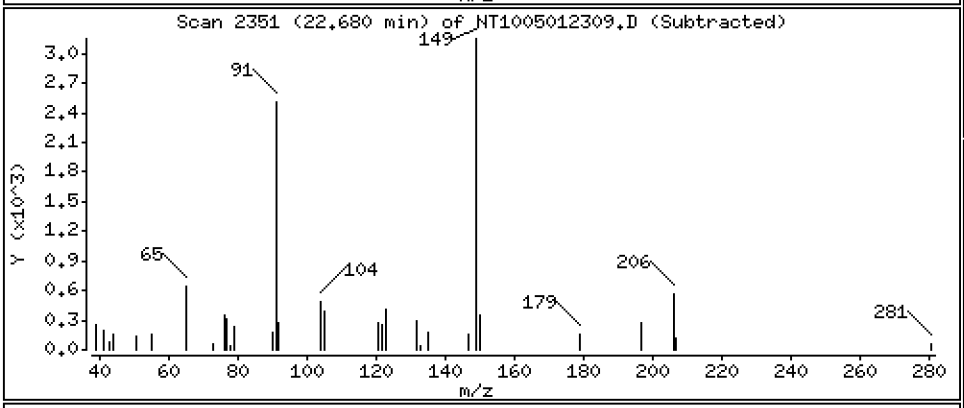
Column diameter: 0.25

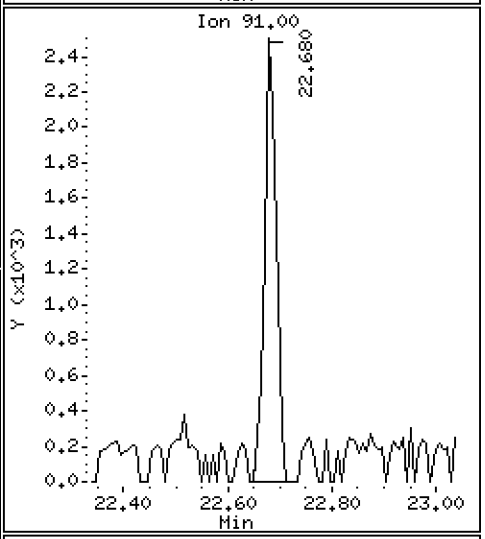
67 Butylbenzylphthalate

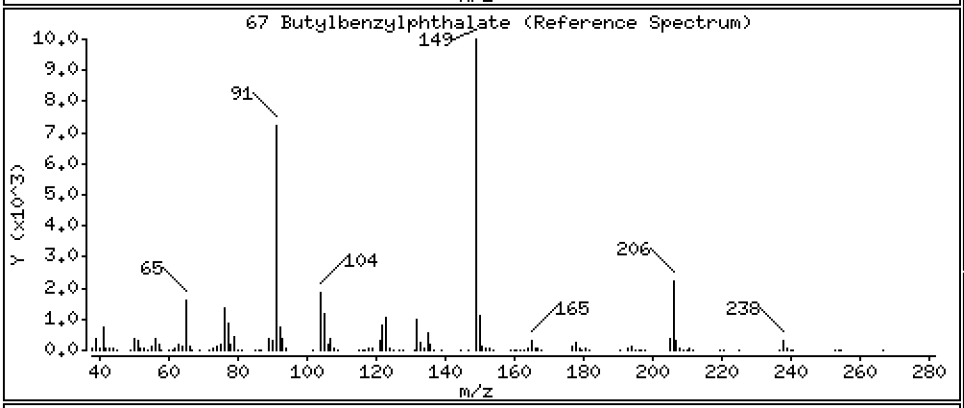
Concentration: 0.04963 ug/mL

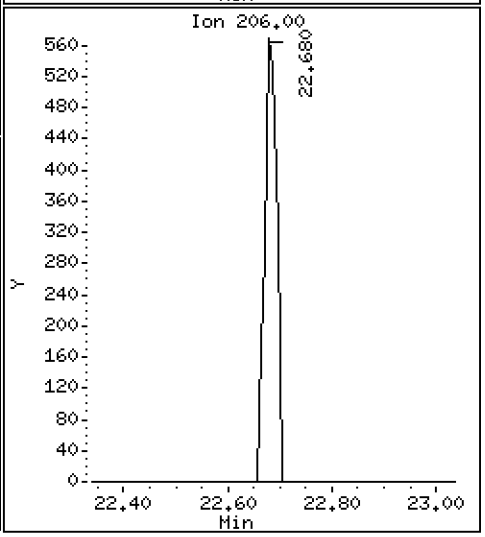


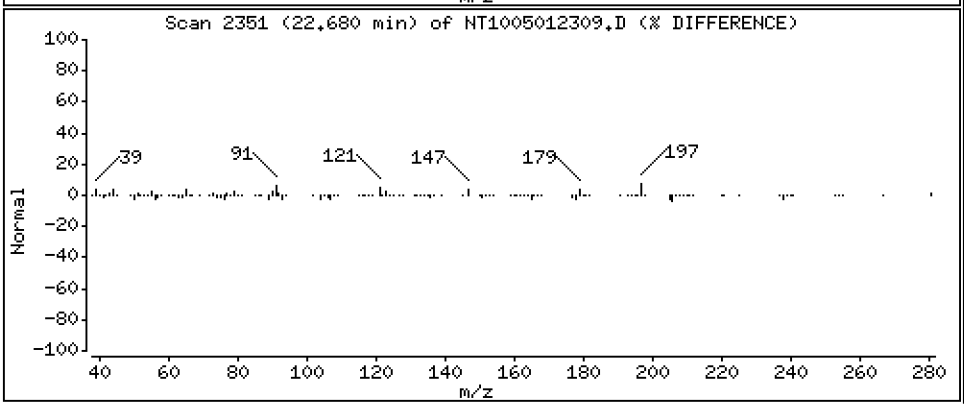












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

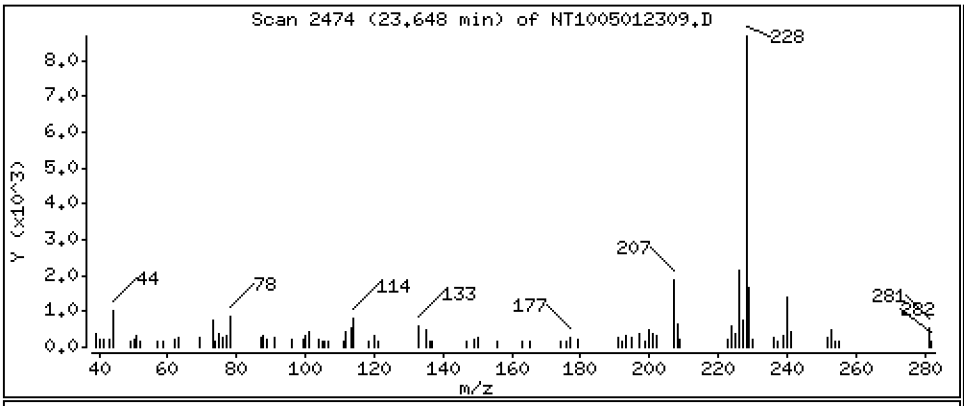
Operator: VTS

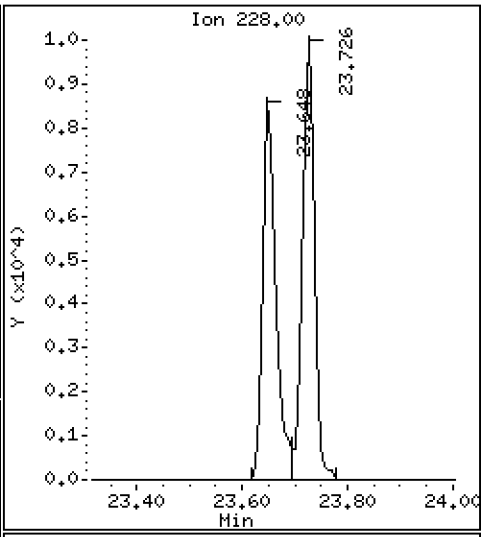
Column phase: ZB-5msi

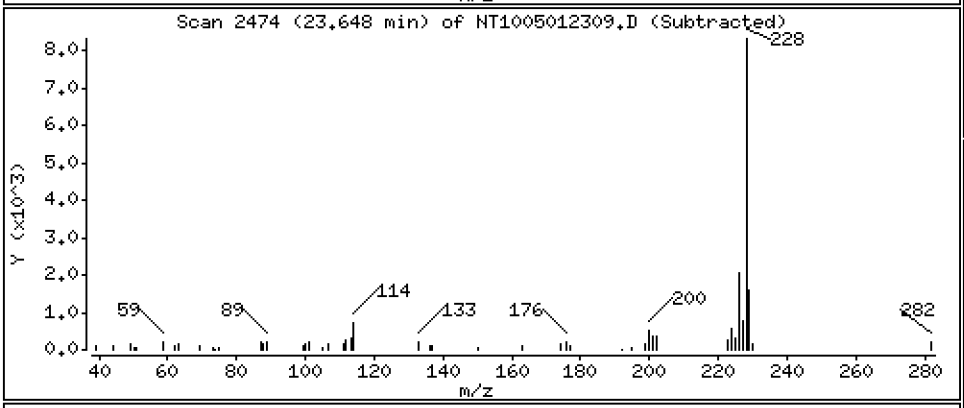
Column diameter: 0.25

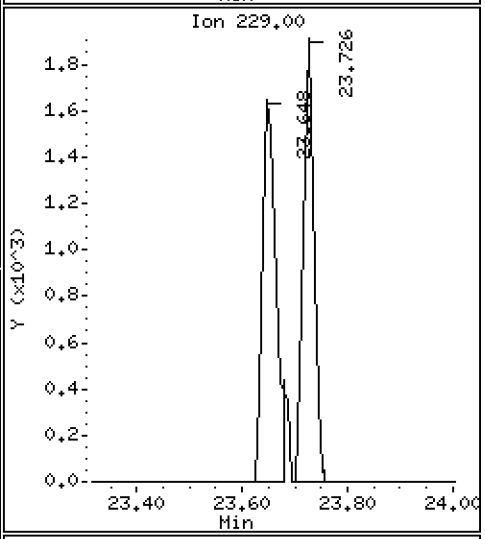
68 Benzo(a)anthracene

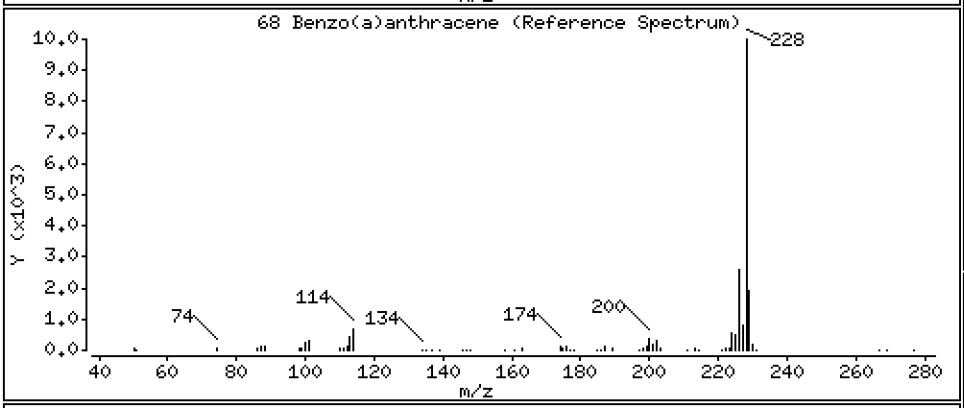
Concentration: 0.09301 ug/mL

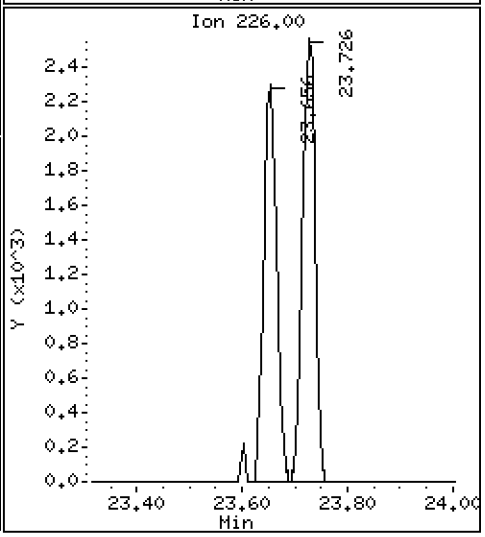


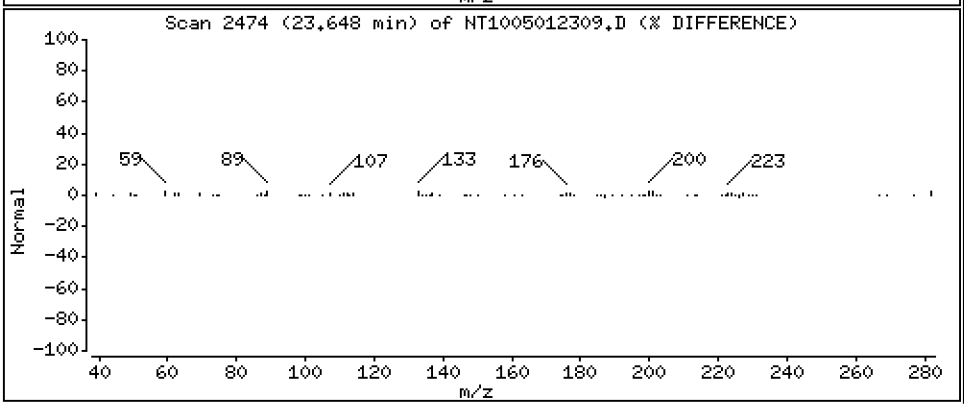












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

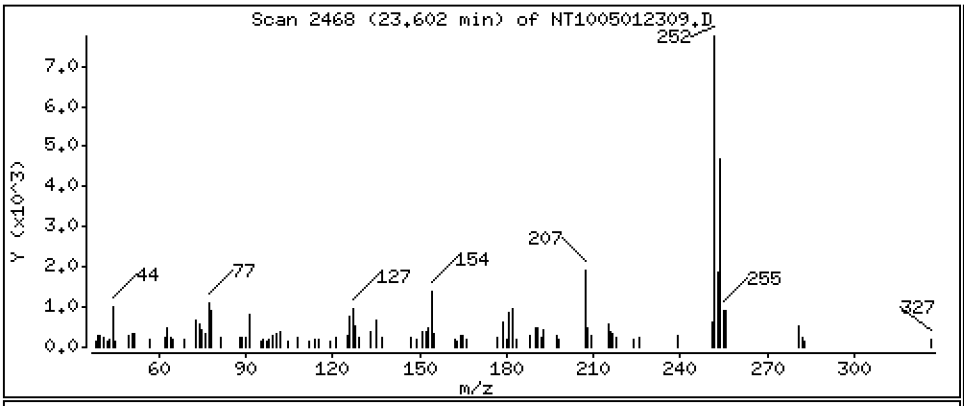
Operator: VTS

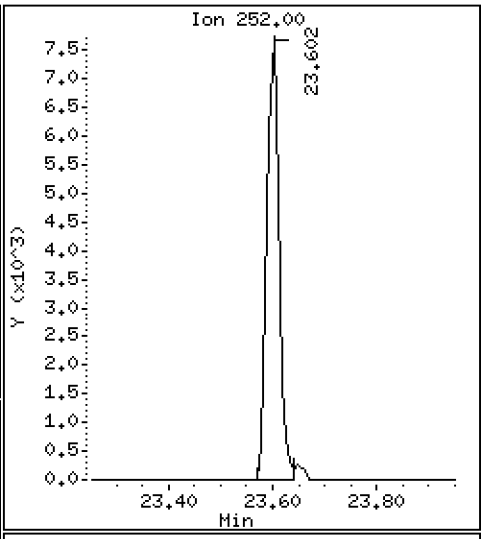
Column phase: ZB-5msi

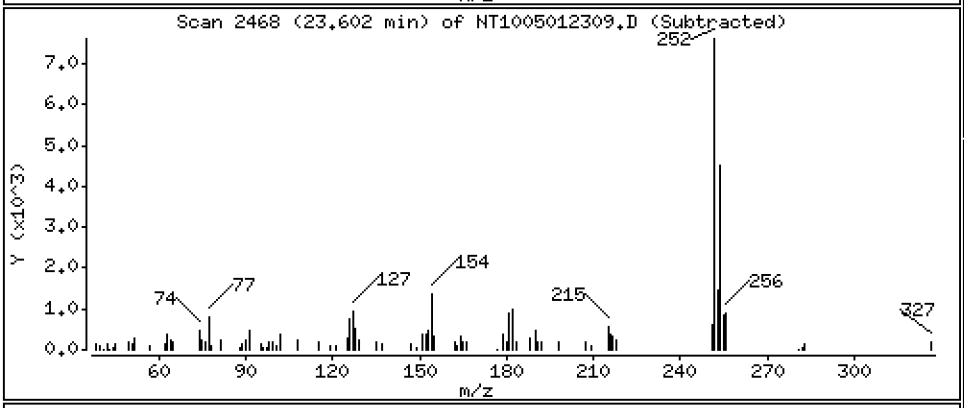
Column diameter: 0.25

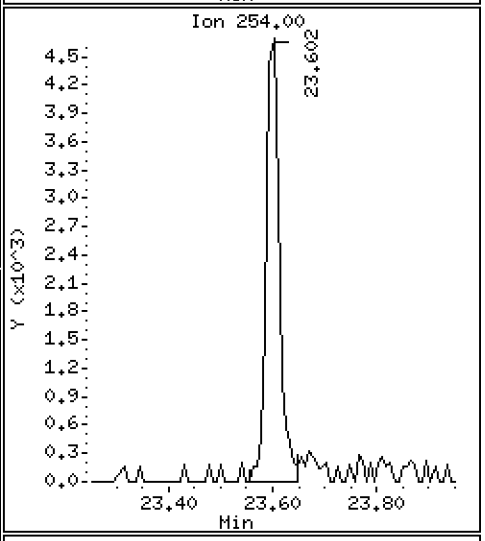
70 3,3'-Dichlorobenzidine

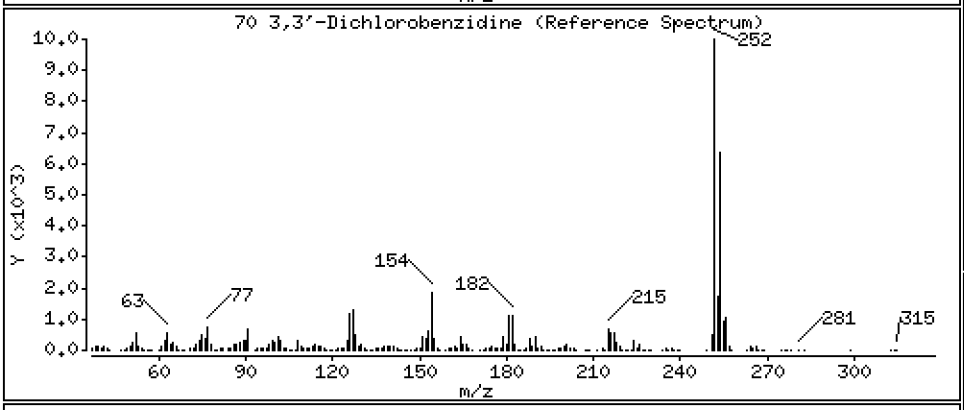
Concentration: 0.2472 ug/mL

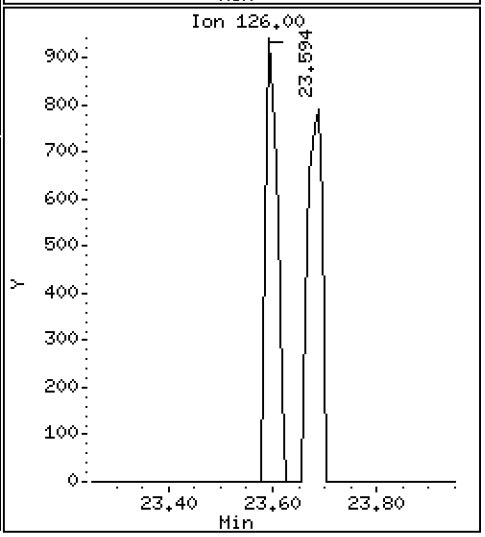


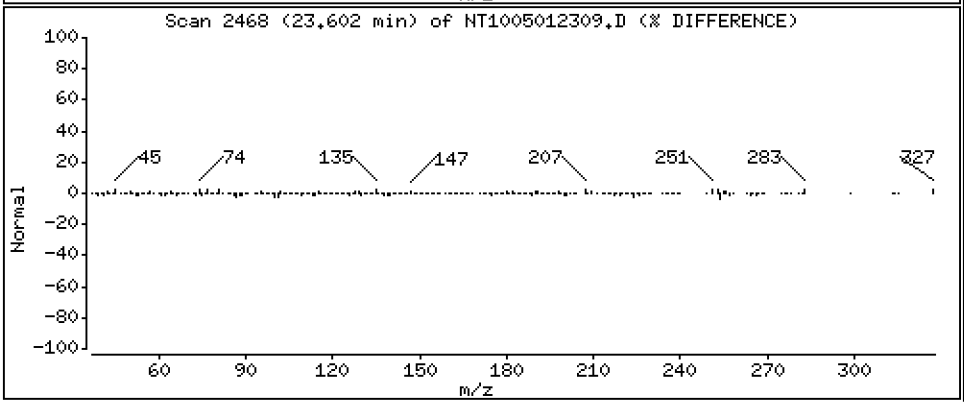












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

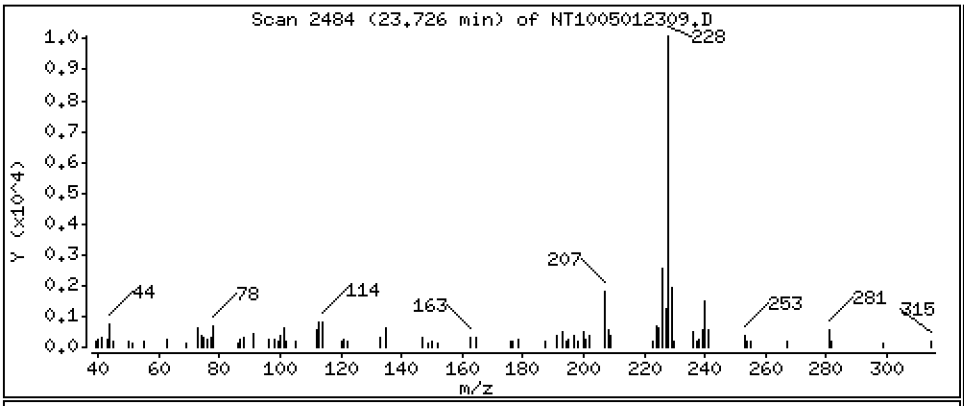
Operator: VTS

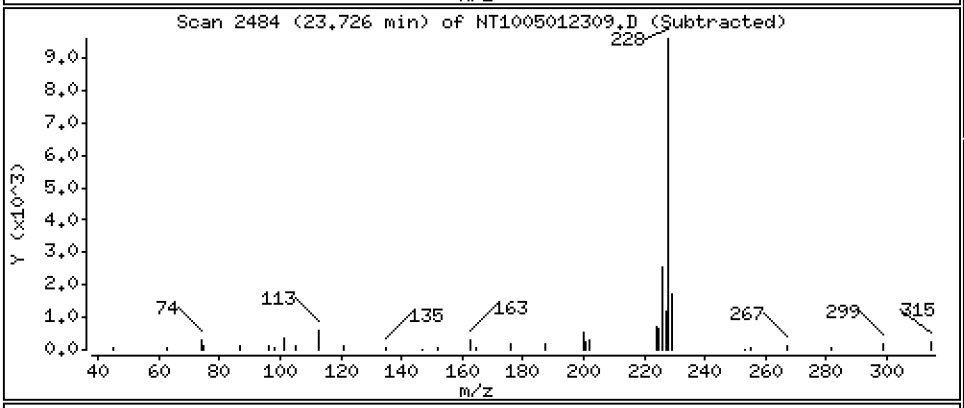
Column phase: ZB-5msi

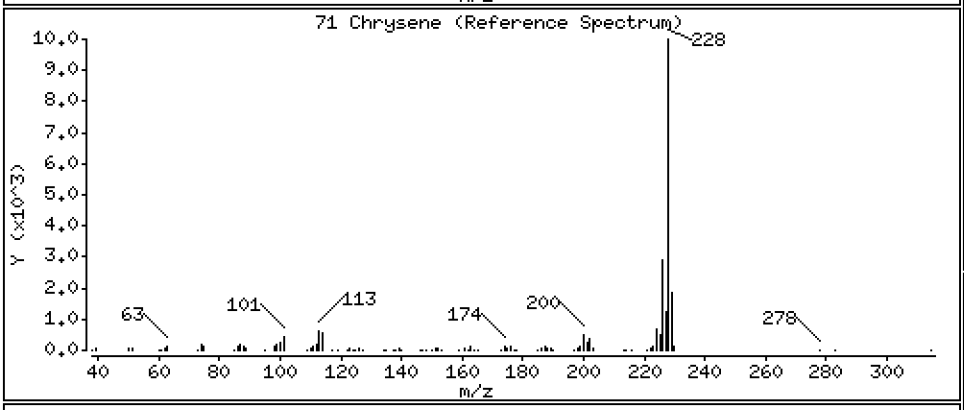
Column diameter: 0.25

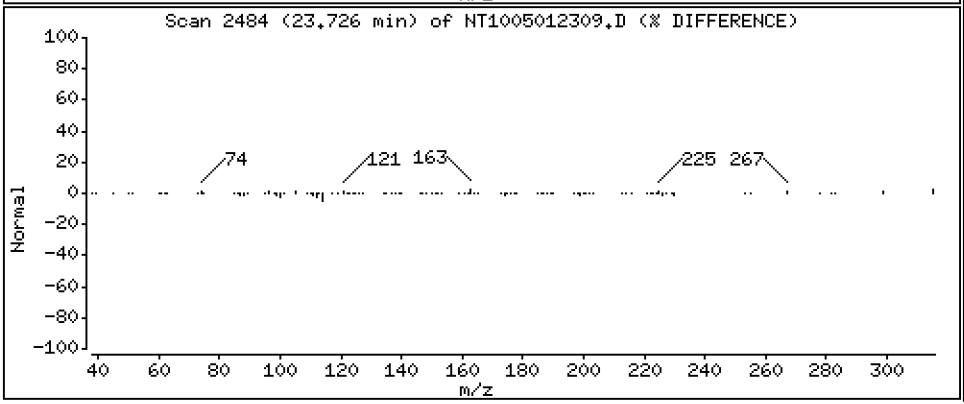
71 Chrysene

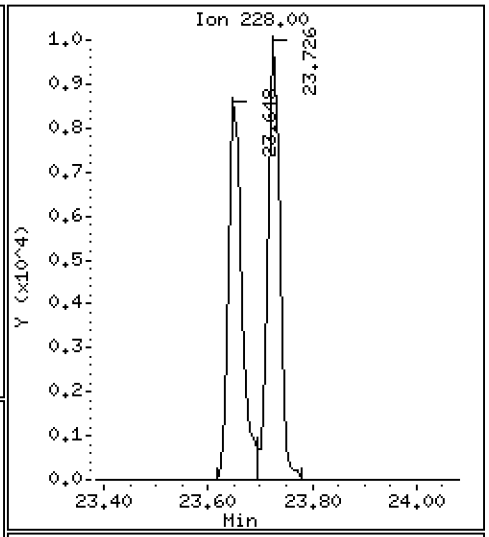
Concentration: 0.1071 ug/mL

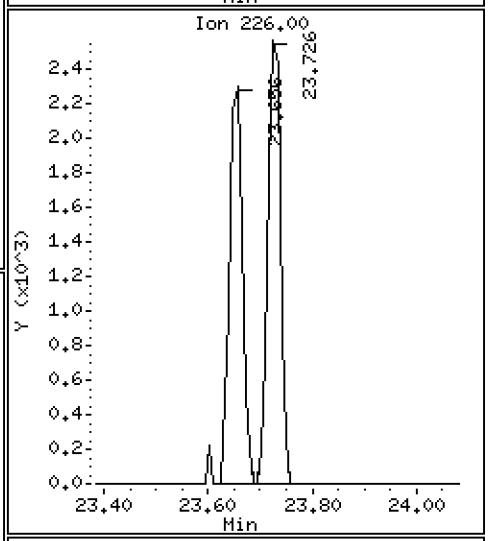


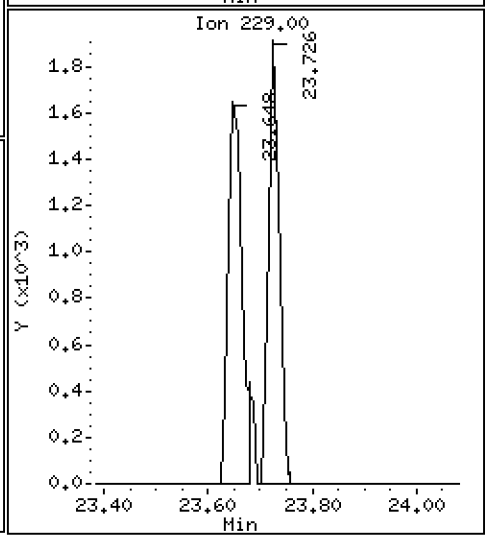












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

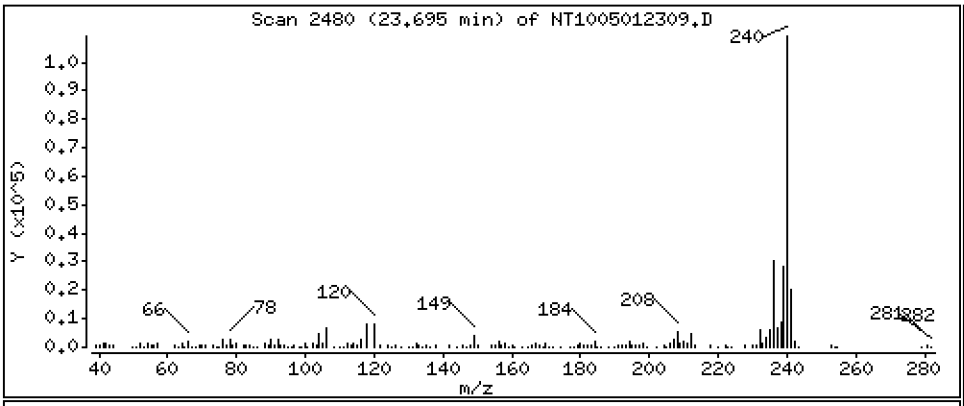
Operator: VTS

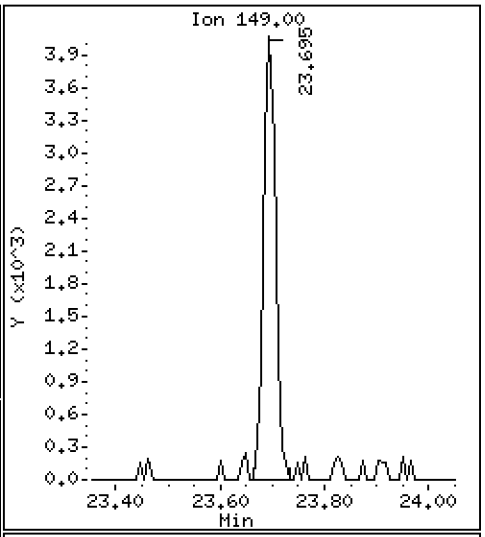
Column phase: ZB-5msi

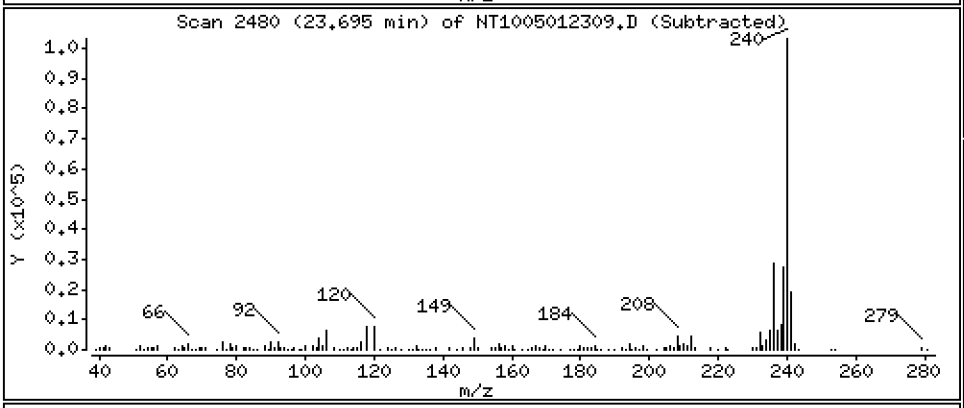
Column diameter: 0.25

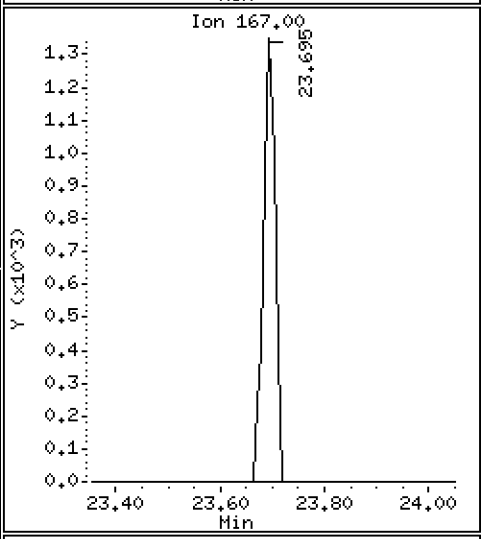
72 bis(2-Ethylhexyl)phthalate

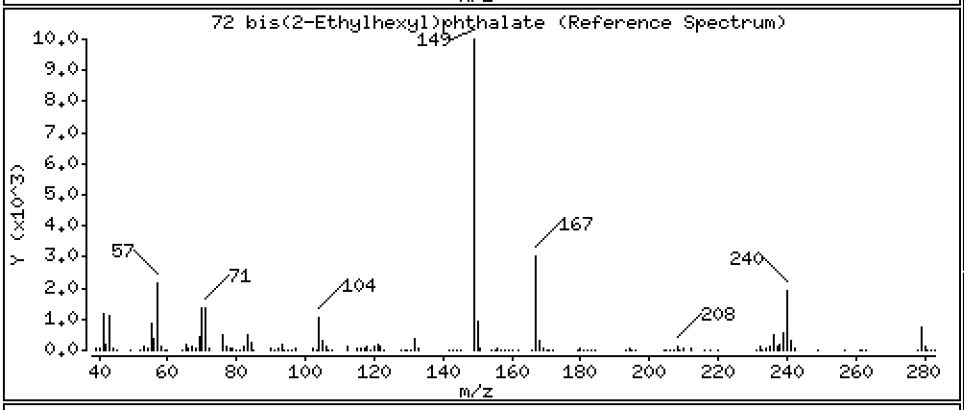
Concentration: 0.07357 ug/mL

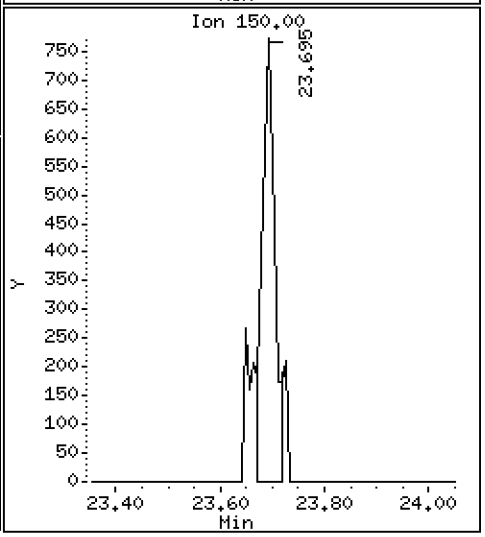


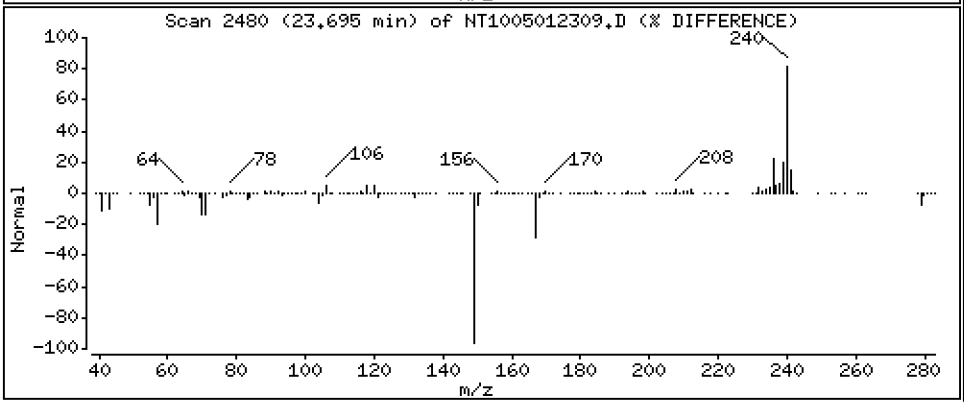












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

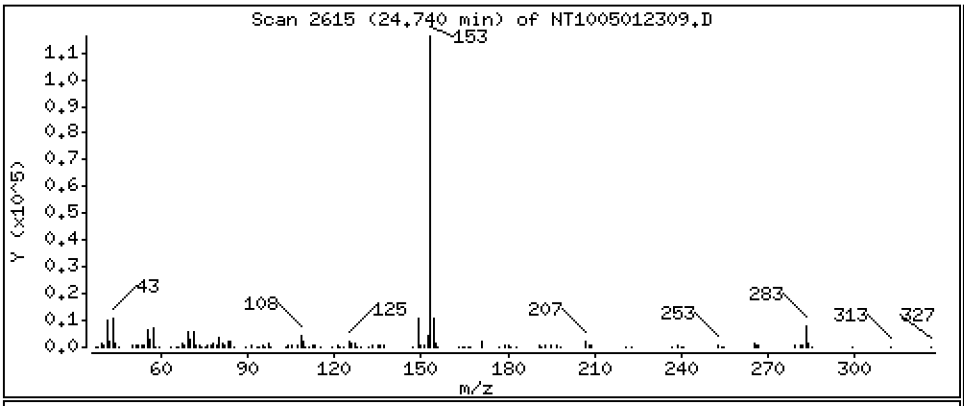
Operator: VTS

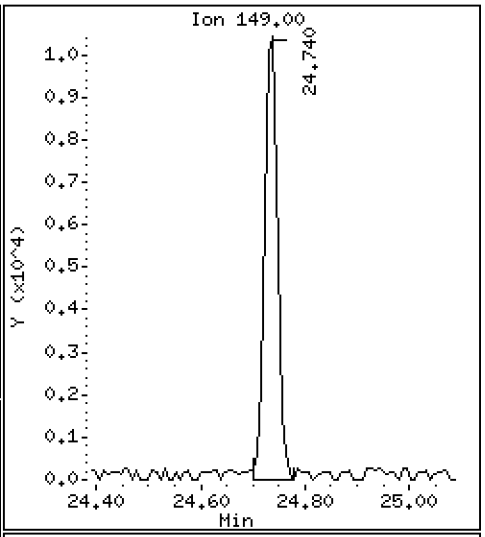
Column phase: ZB-5msi

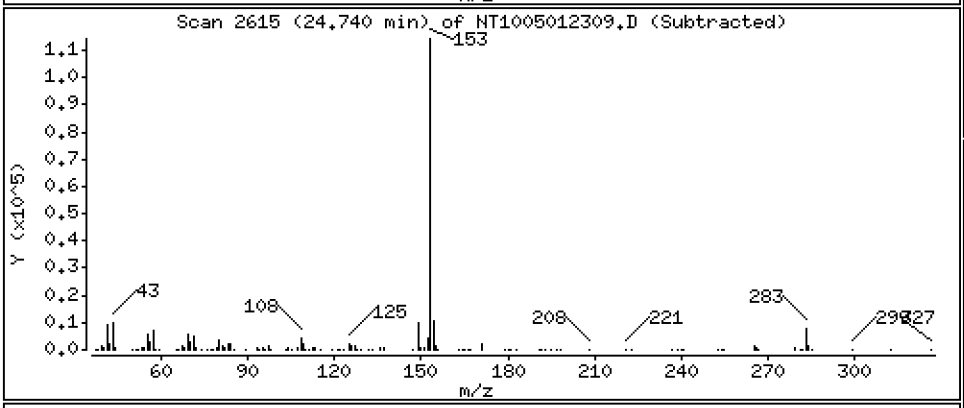
Column diameter: 0.25

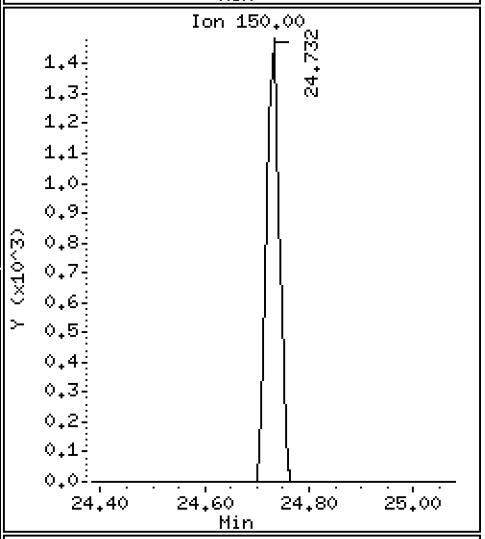
73 Di-n-octylphthalate

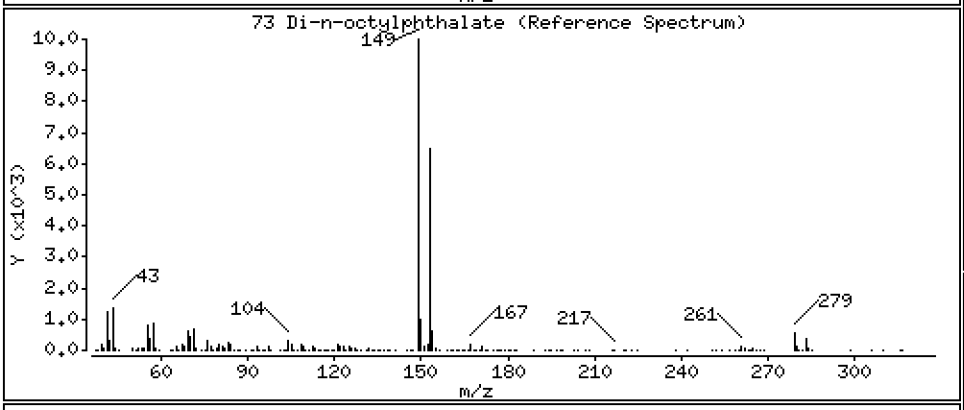
Concentration: 0.1138 ug/mL

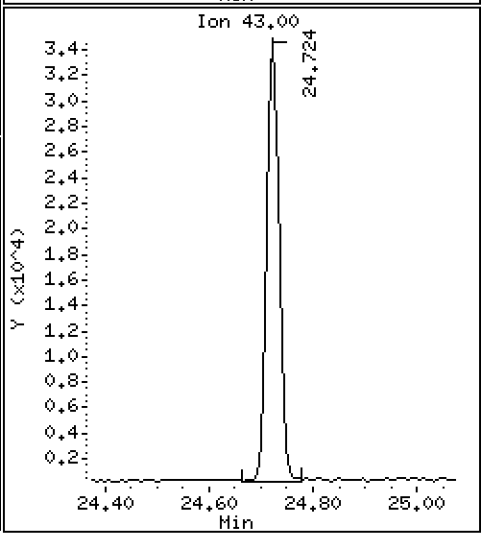


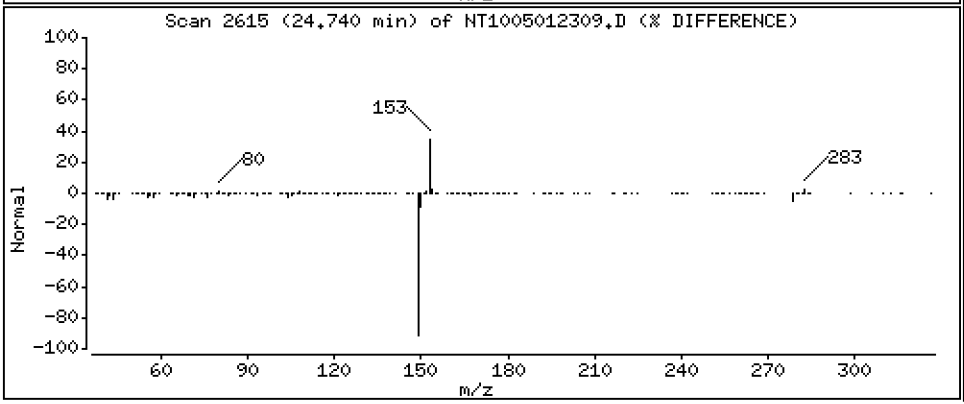












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

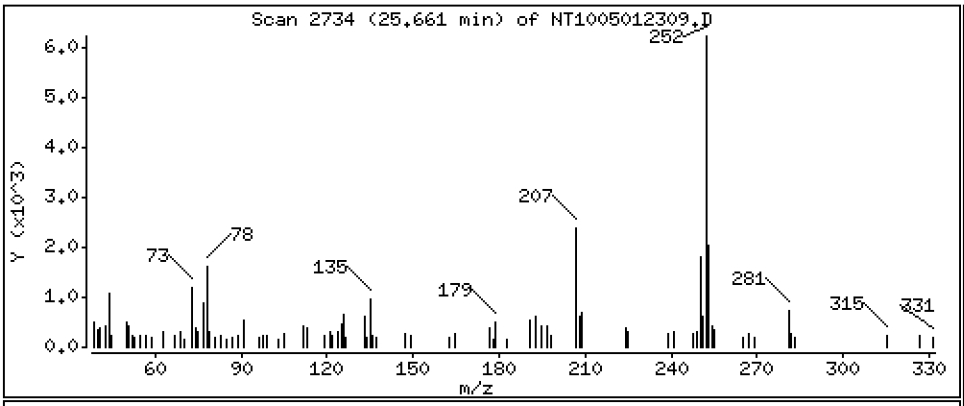
Operator: VTS

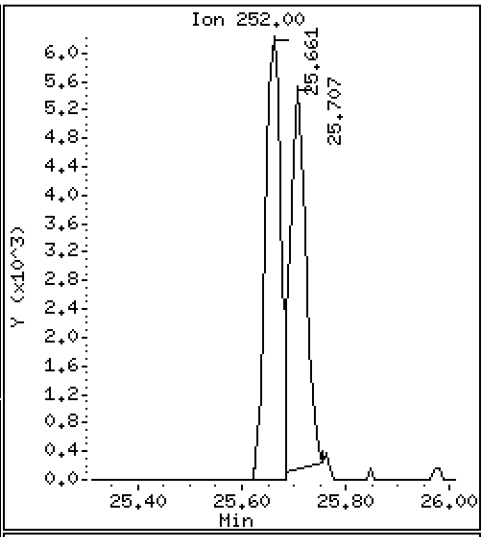
Column phase: ZB-5msi

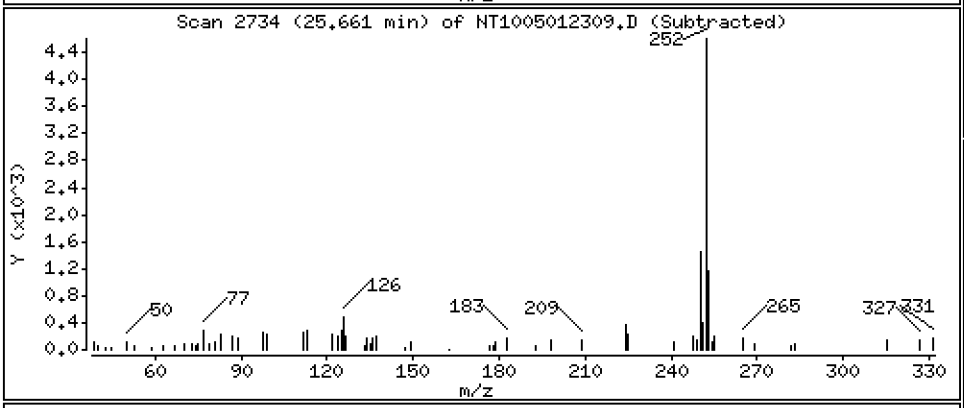
Column diameter: 0.25

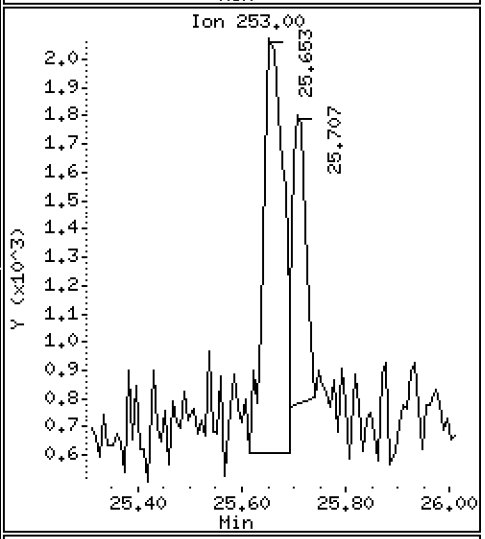
74 Benzo(b)fluoranthene

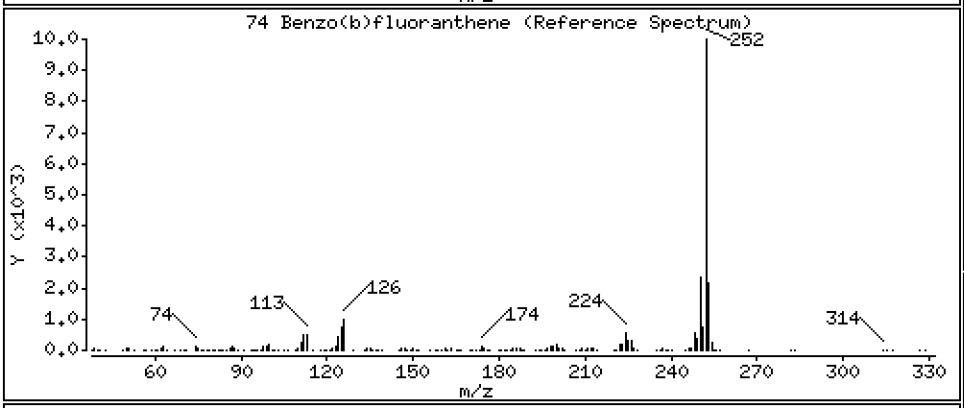
Concentration: 0.08534 ug/mL

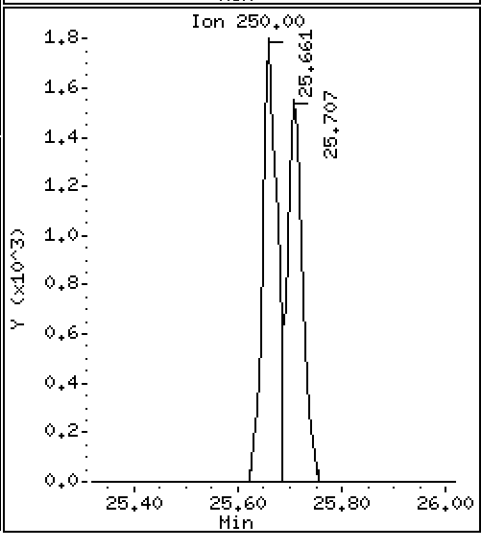


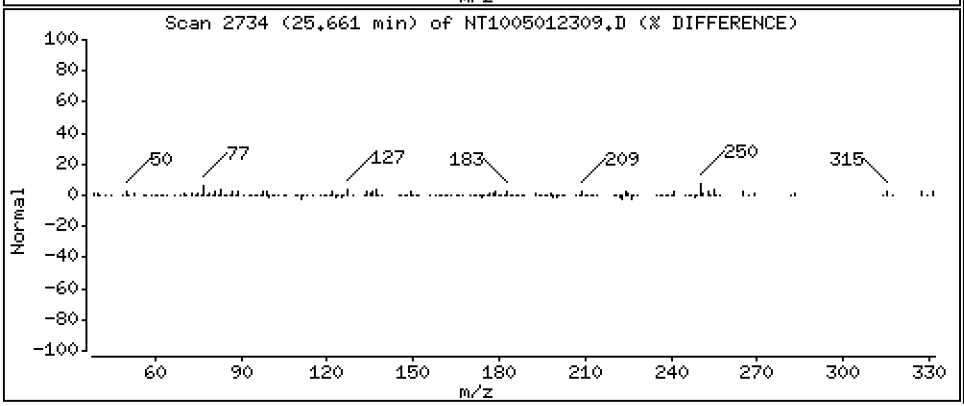












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

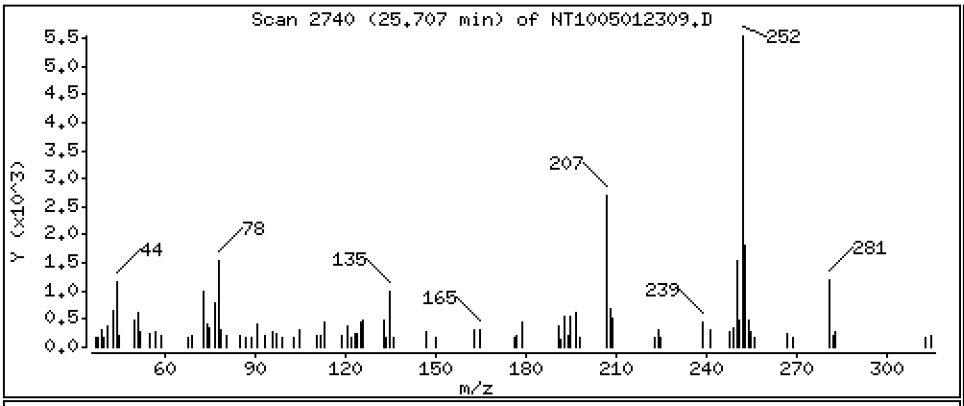
Operator: VTS

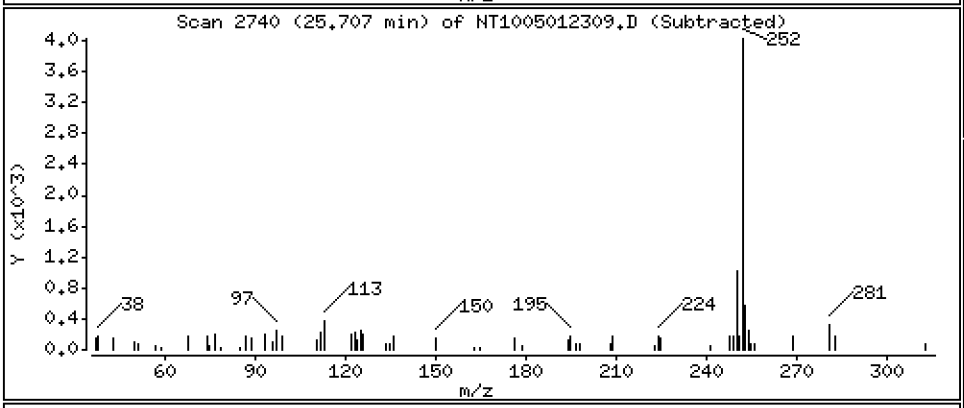
Column phase: ZB-5msi

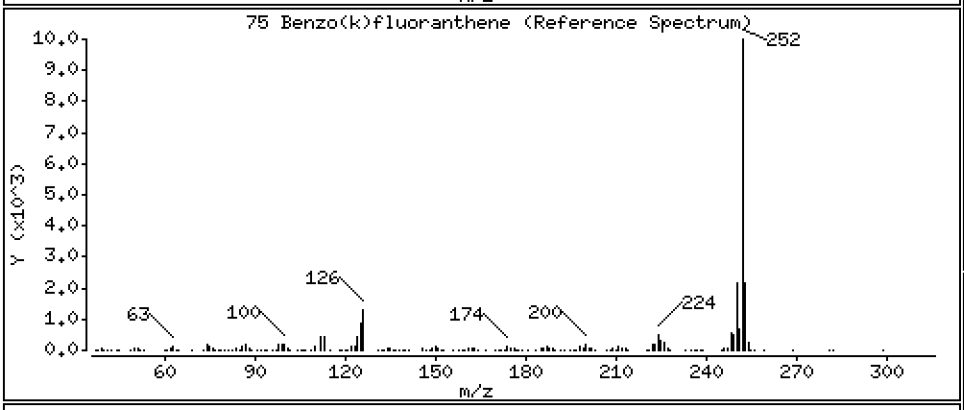
Column diameter: 0.25

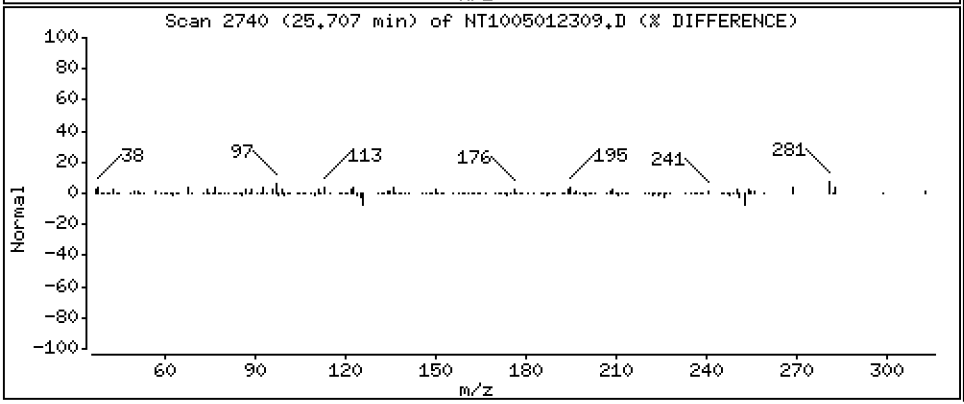
75 Benzo(k)fluoranthene

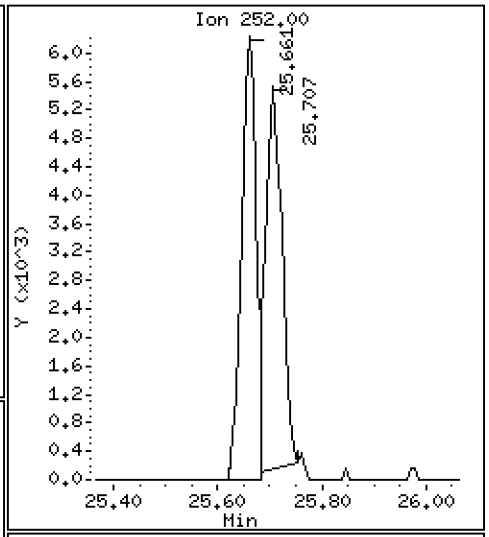
Concentration: 0.07983 ug/mL

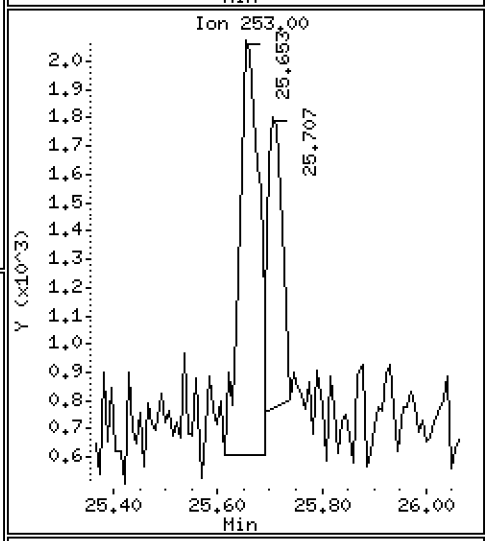


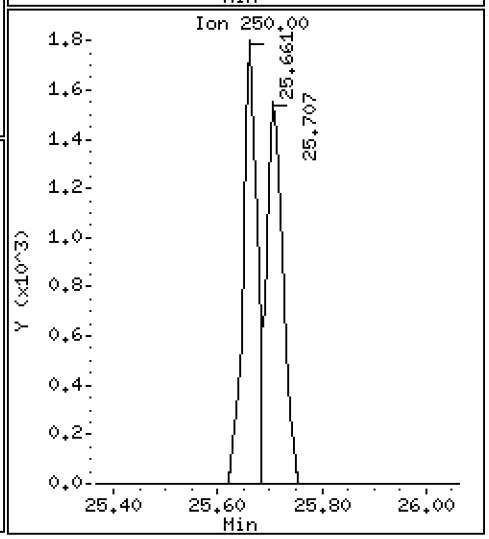












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

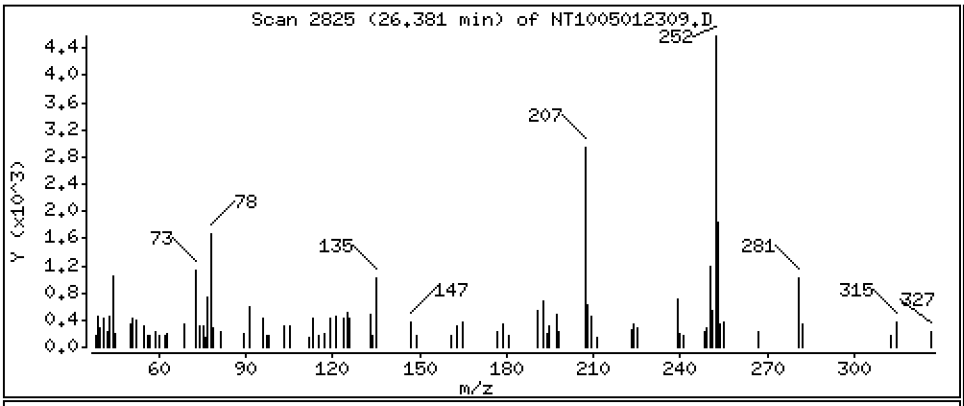
Operator: VTS

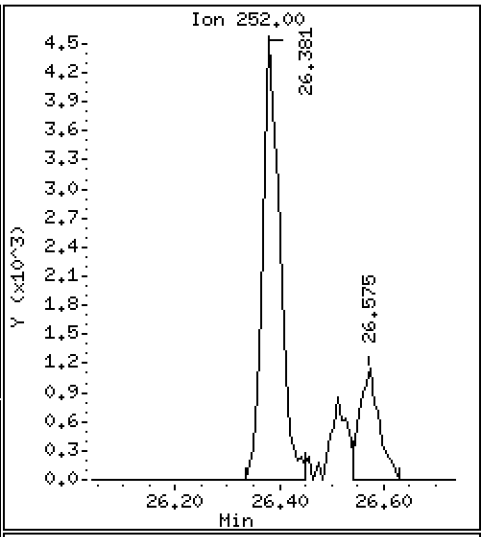
Column phase: ZB-5msi

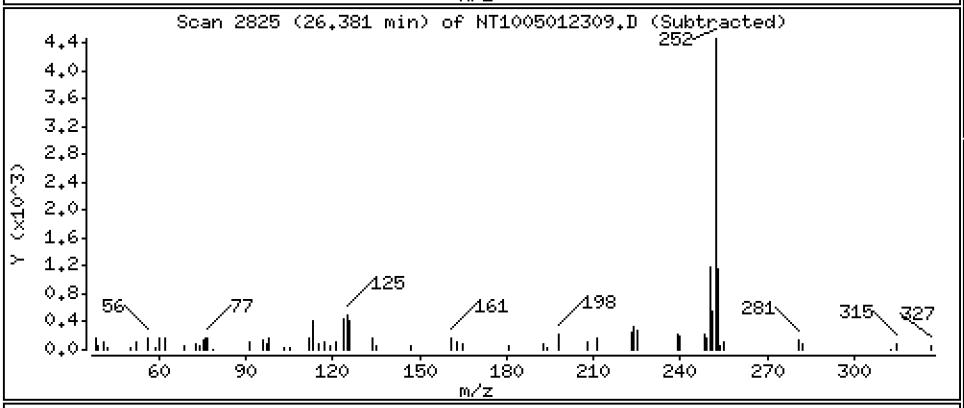
Column diameter: 0.25

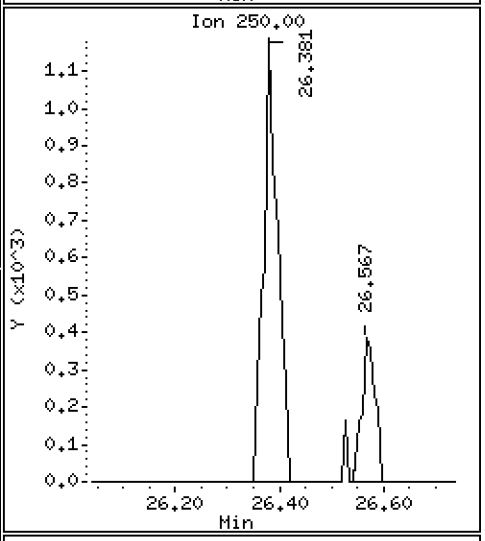
76 Benzo(a)pyrene

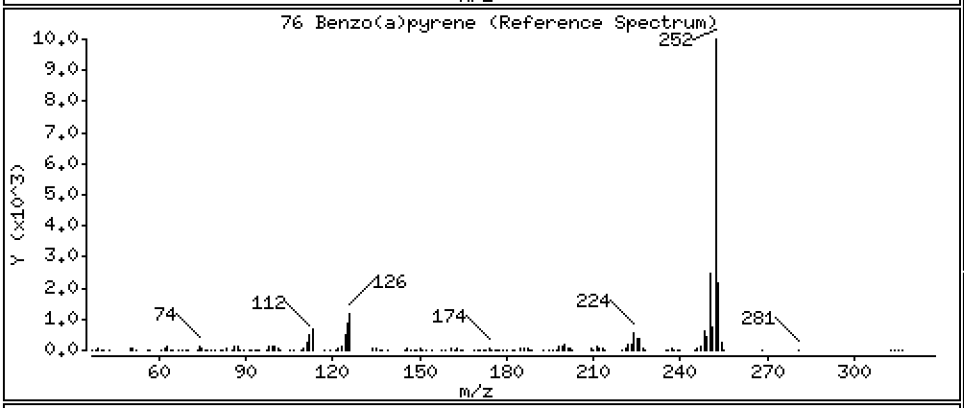
Concentration: 0.08309 ug/mL

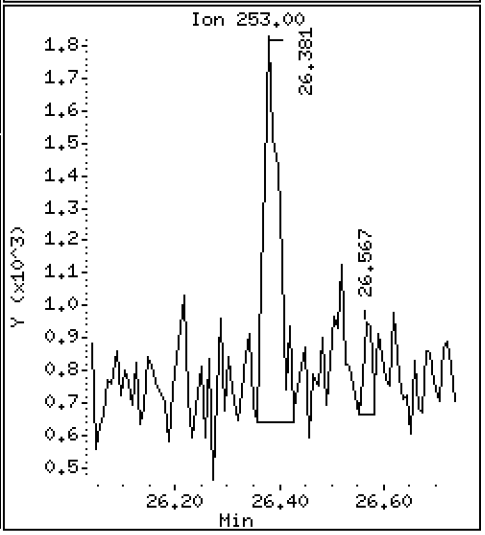


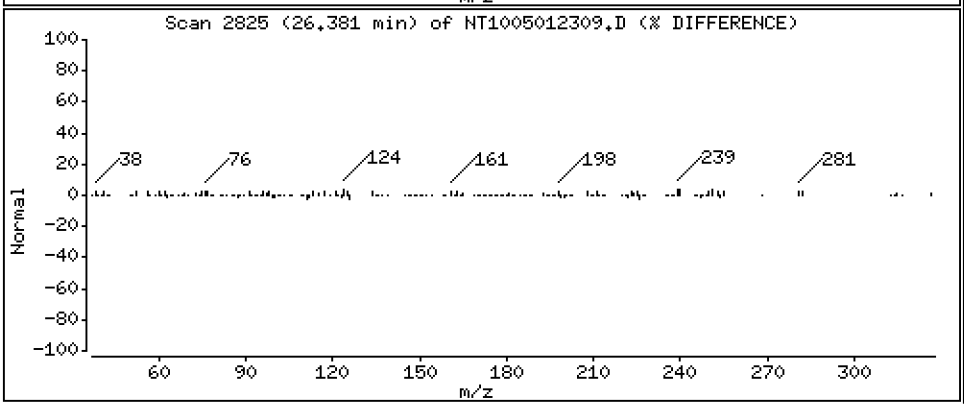












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Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

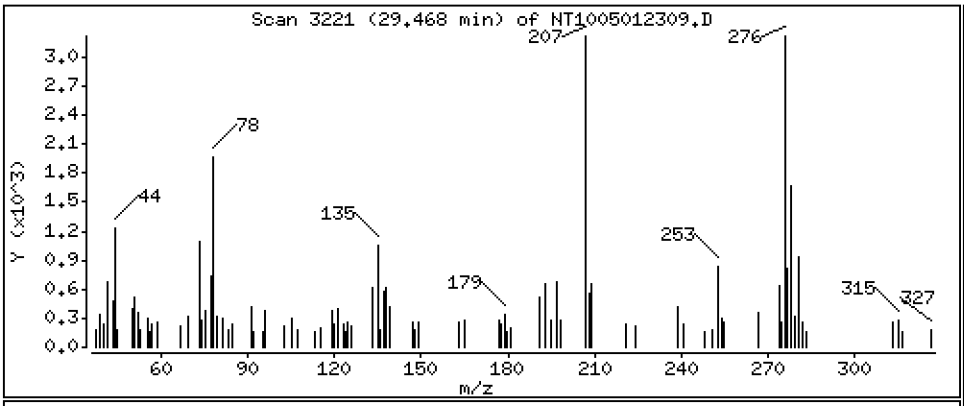
Operator: VTS

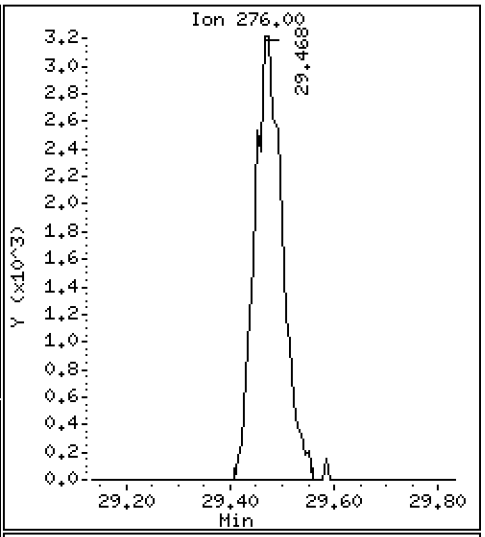
Column phase: ZB-5msi

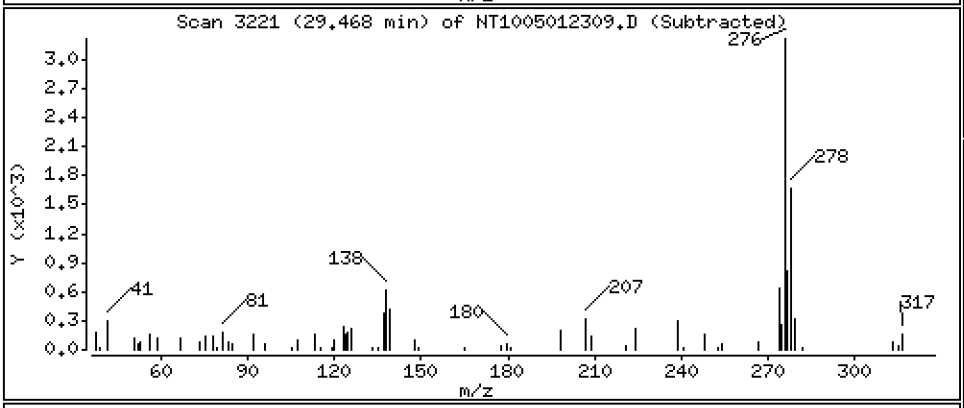
Column diameter: 0.25

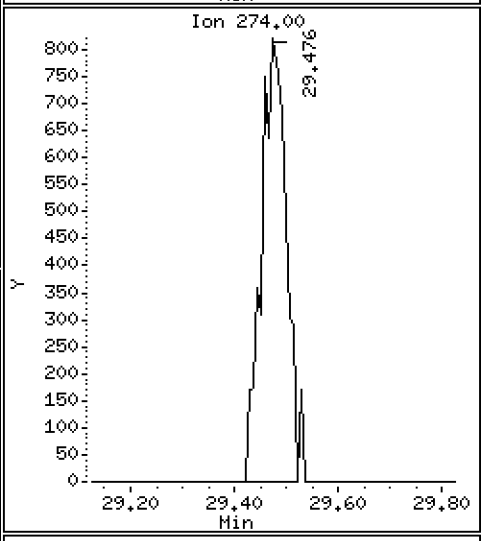
78 Indeno(1,2,3-cd)pyrene

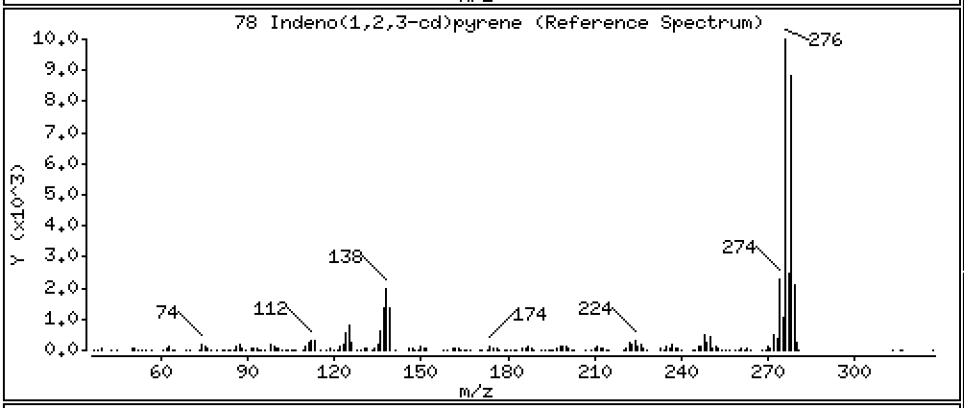
Concentration: 0.08101 ug/mL

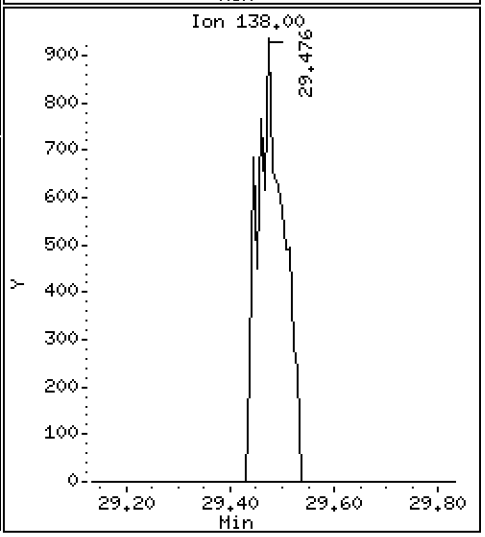


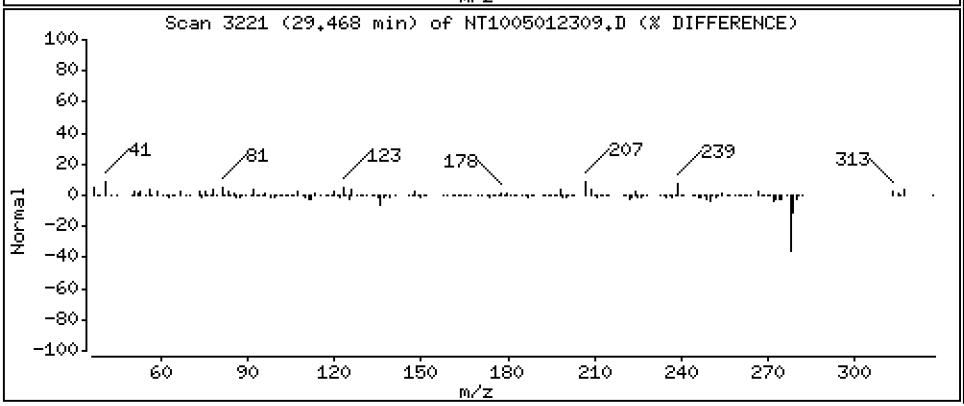












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

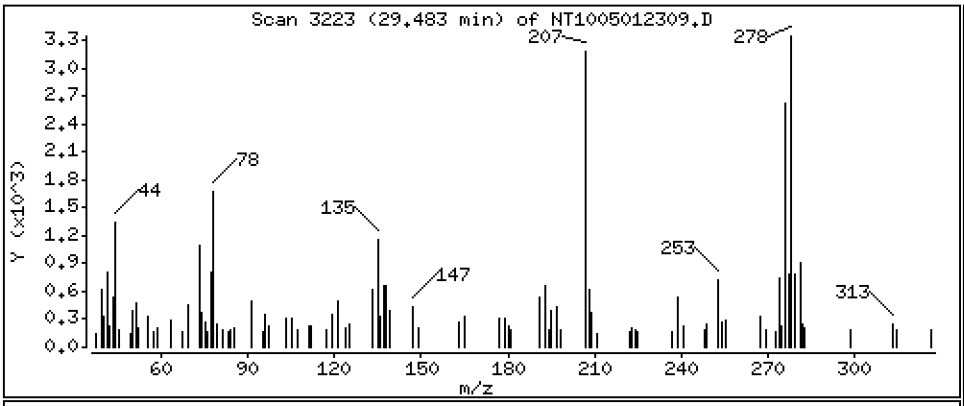
Operator: VTS

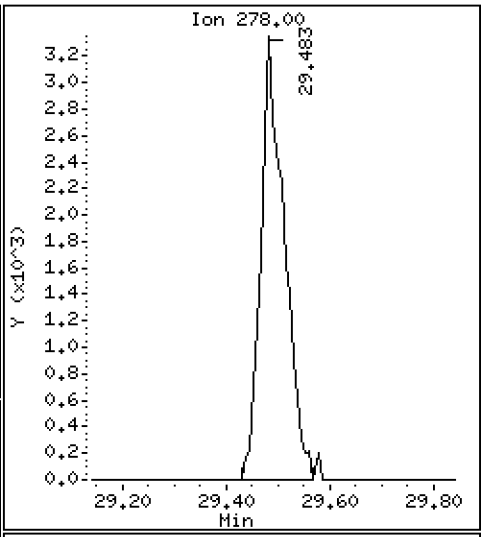
Column phase: ZB-5msi

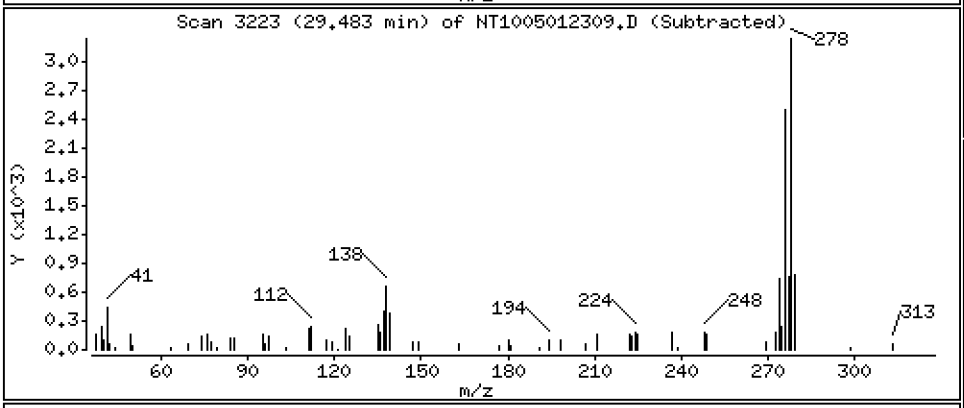
Column diameter: 0.25

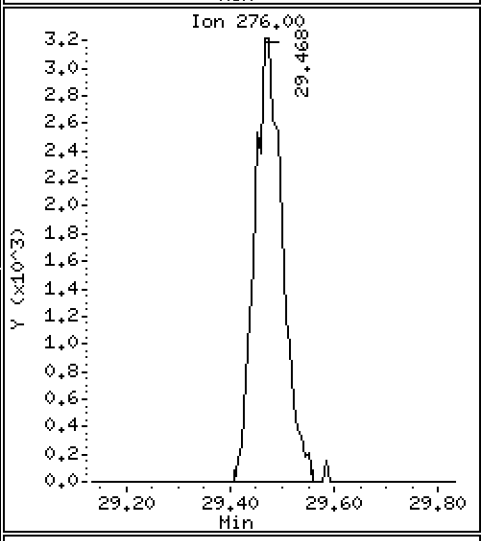
79 Dibenzo(a,h)anthracene

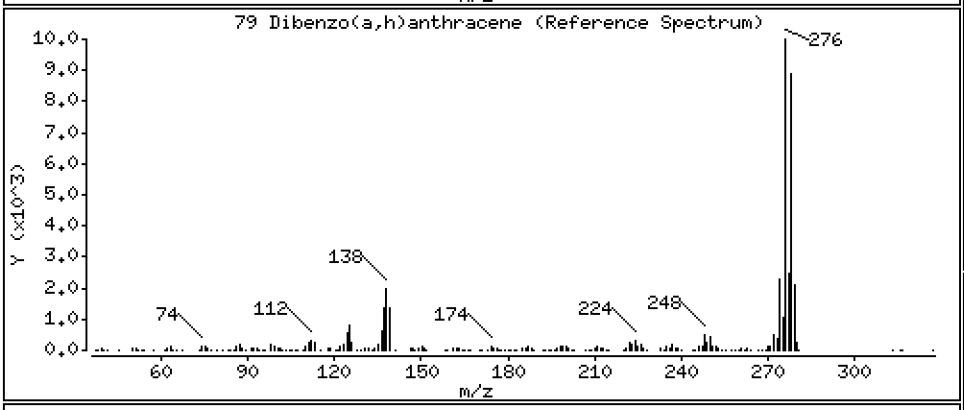
Concentration: 0.08353 ug/mL

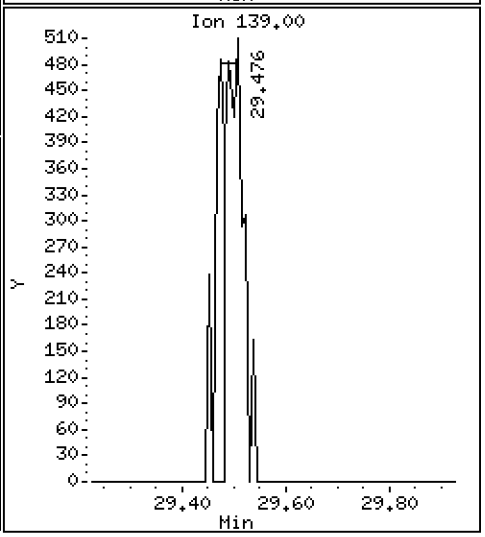


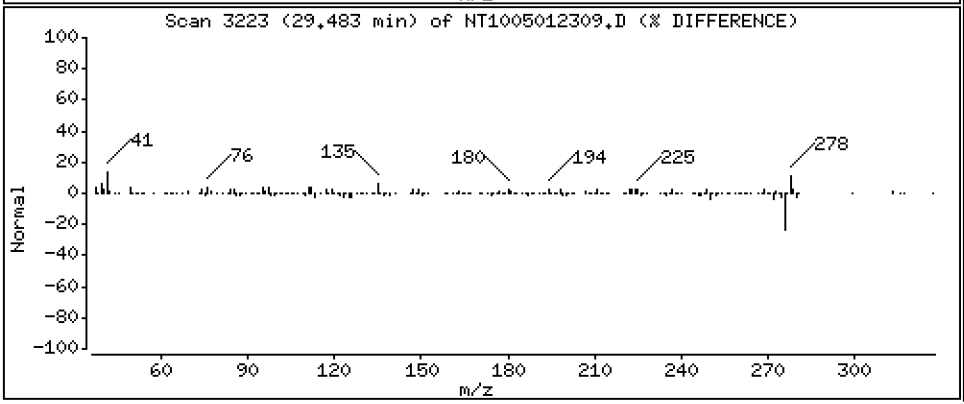












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

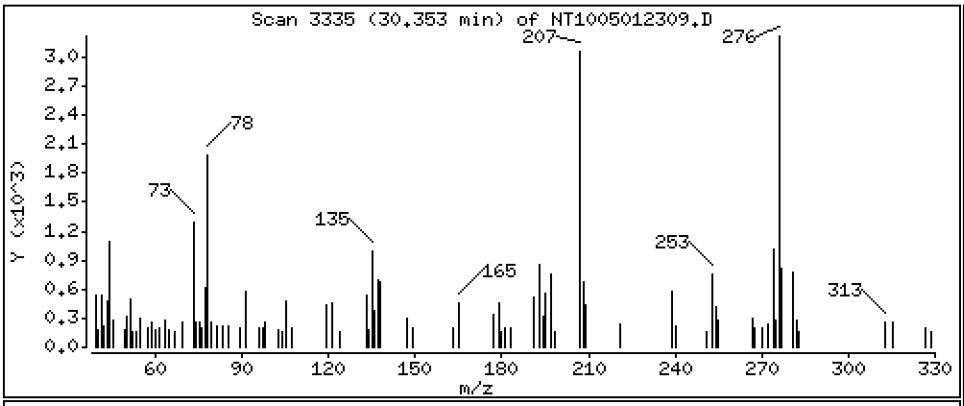
Operator: VTS

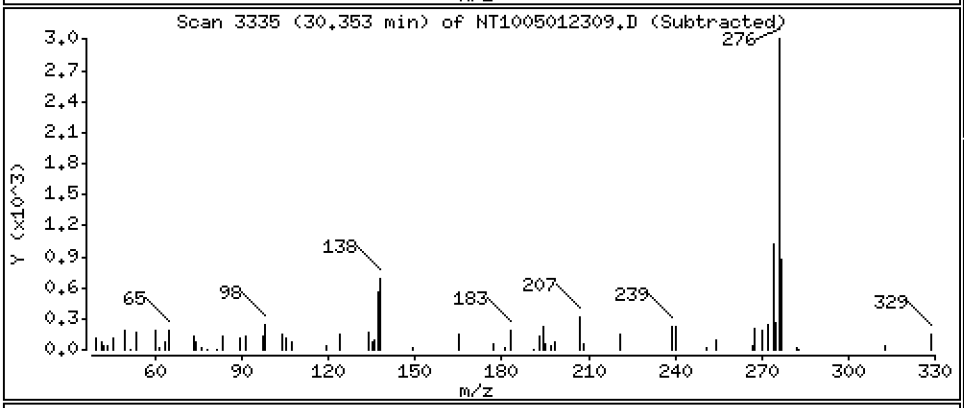
Column phase: ZB-5msi

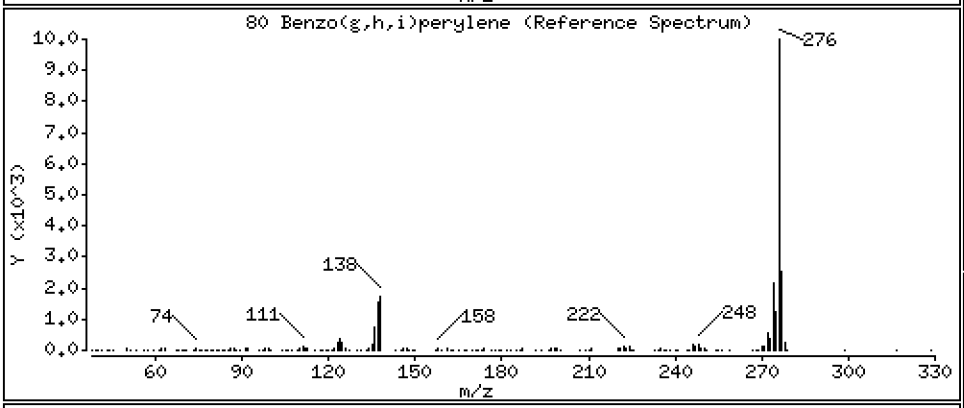
Column diameter: 0.25

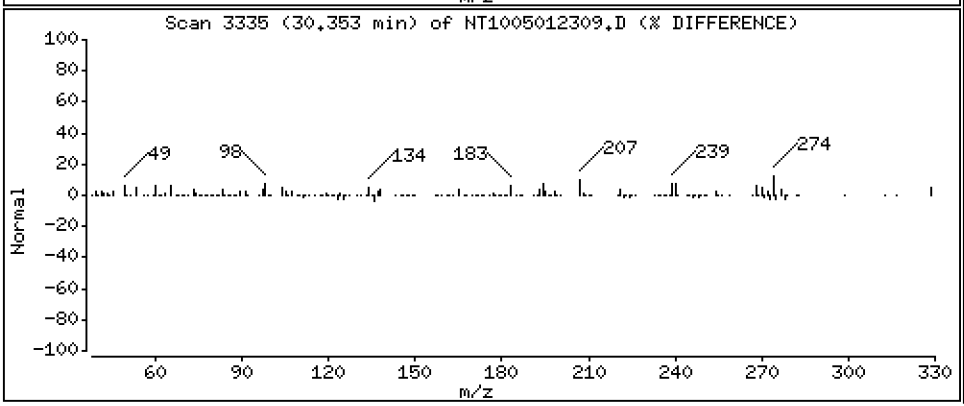
80 Benzo(g,h,i)perylene

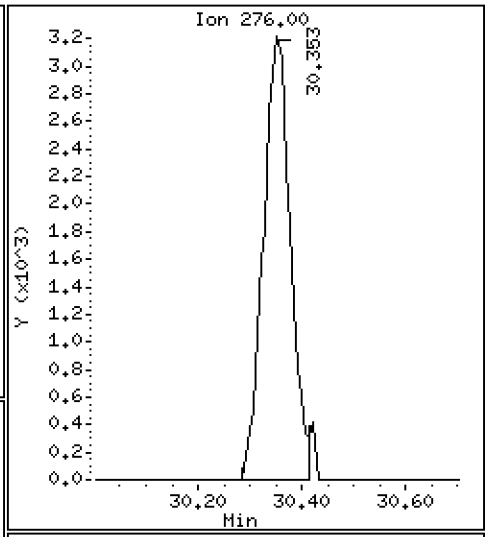
Concentration: 0.09644 ug/mL

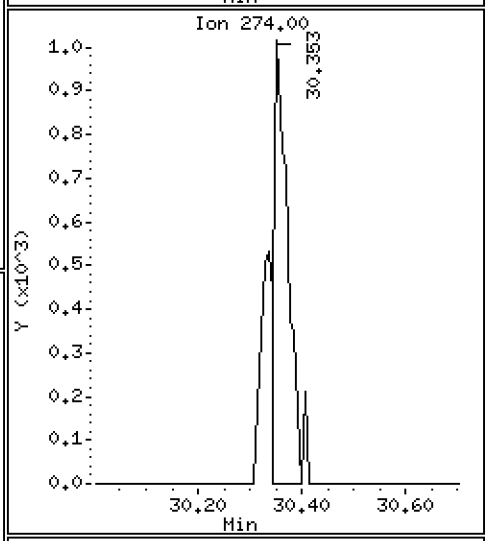


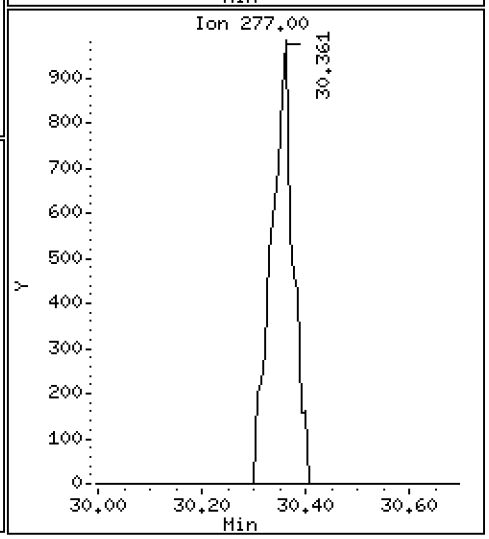












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

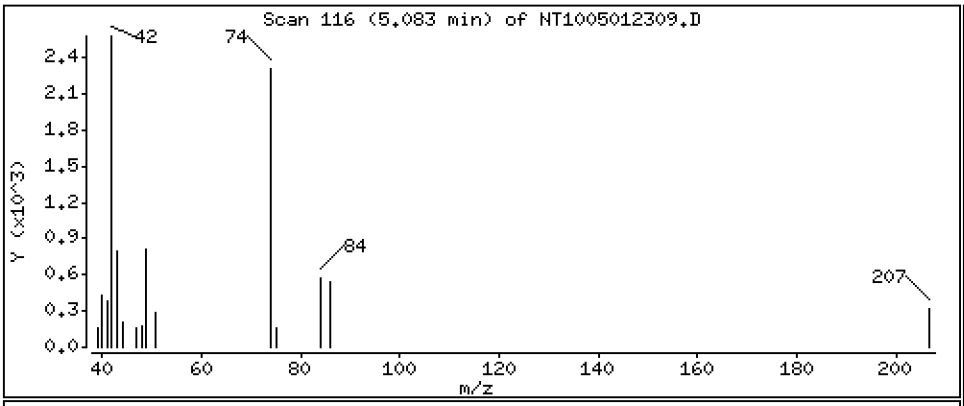
Sample Info: SEQ-SIM2

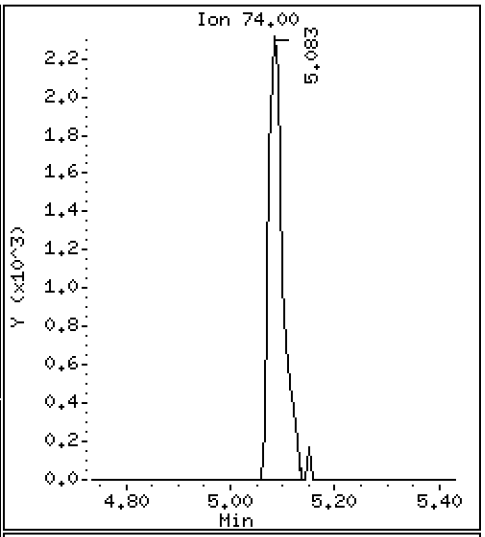
Operator: VTS

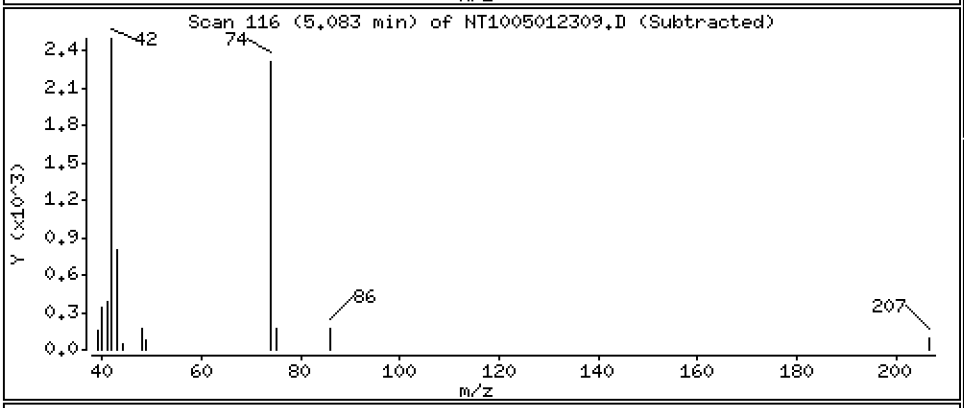
Column phase: ZB-5msi

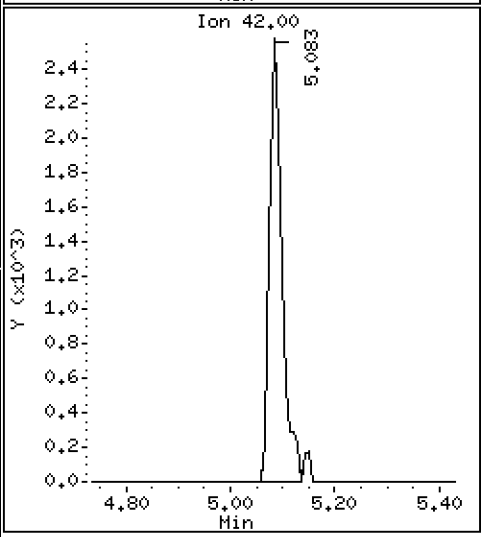
Column diameter: 0.25

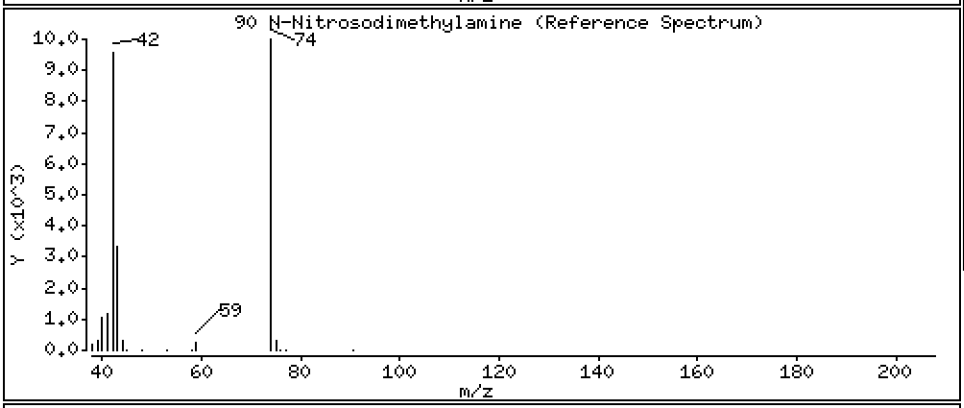
90 N-Nitrosodimethylamine

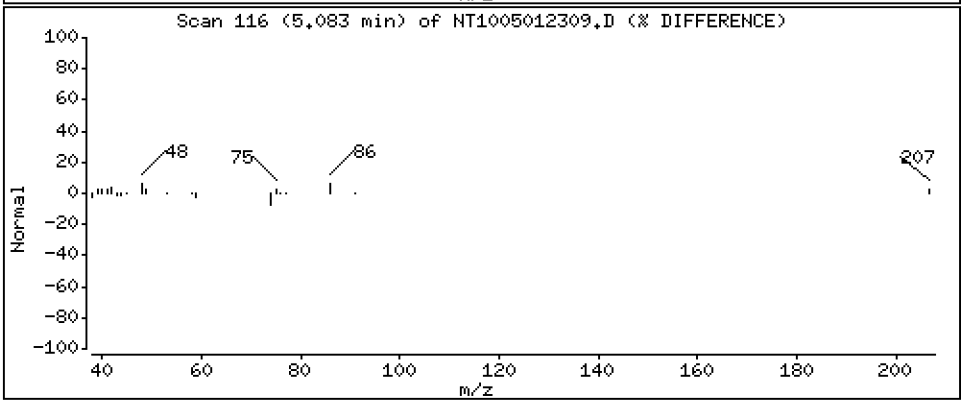












Date : 01-MAY-2023 19:25

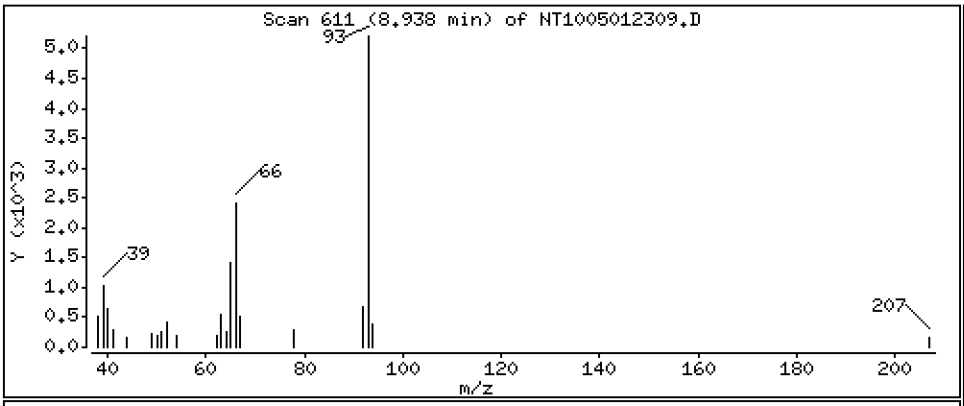
Client ID: Instrument: nt10.i

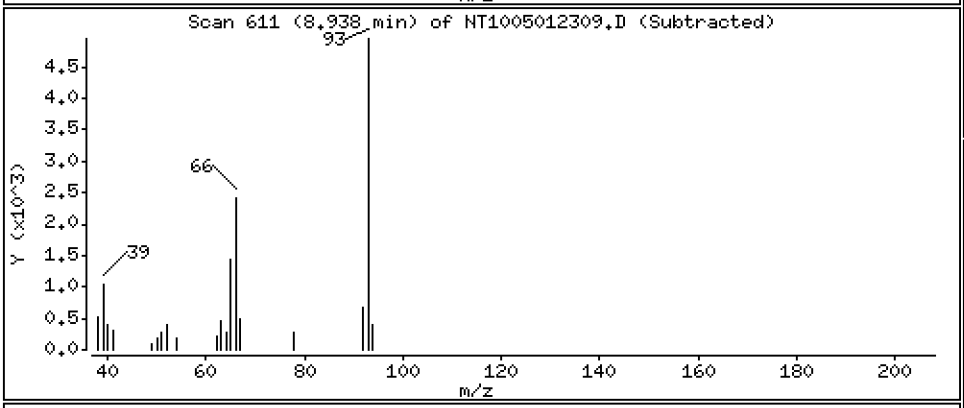
Sample Info: SEQ-SIM2

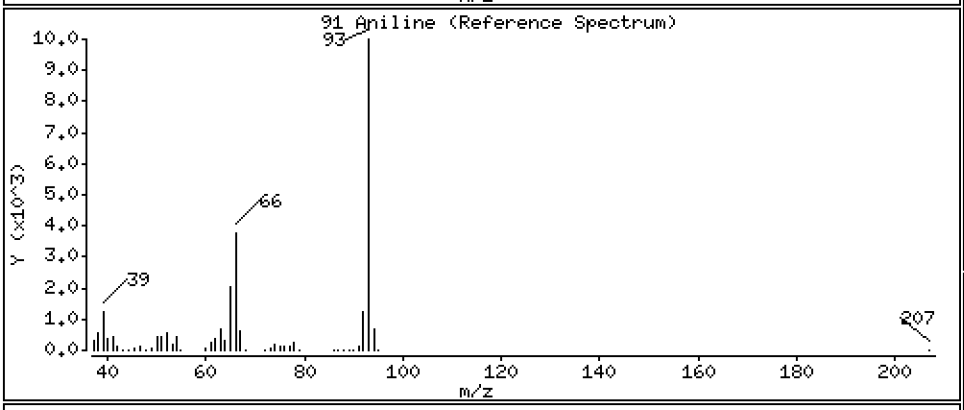
Operator: VTS

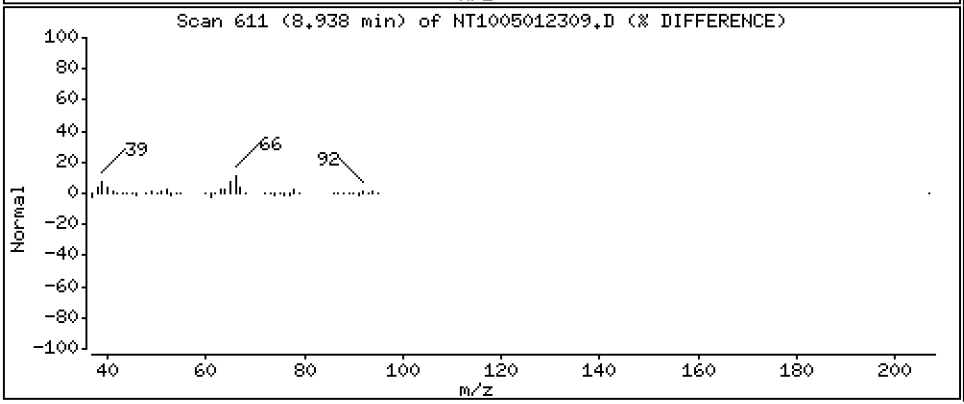
Column phase: ZB-5msi Column diameter: 0.25

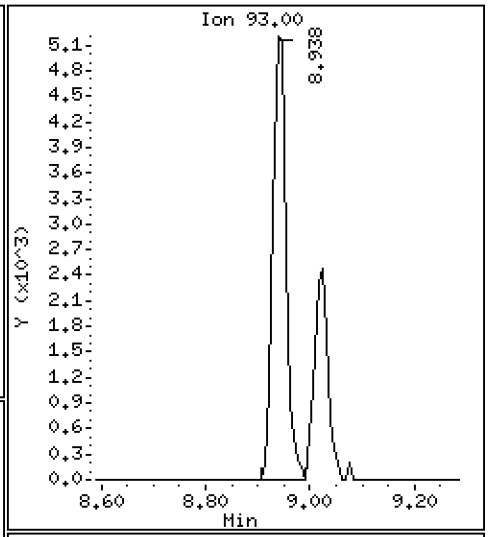
91 Aniline

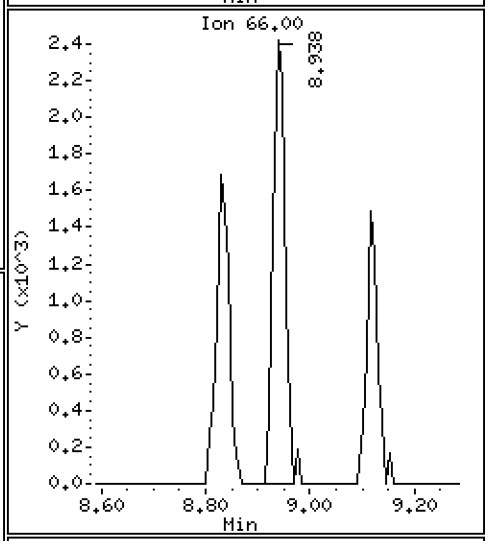


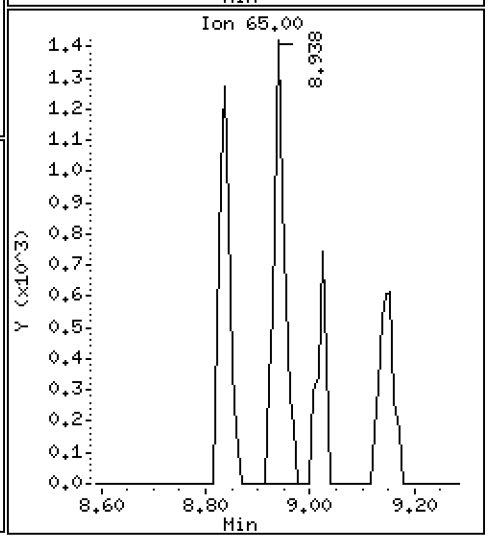












Date : 01-MAY-2023 19:25

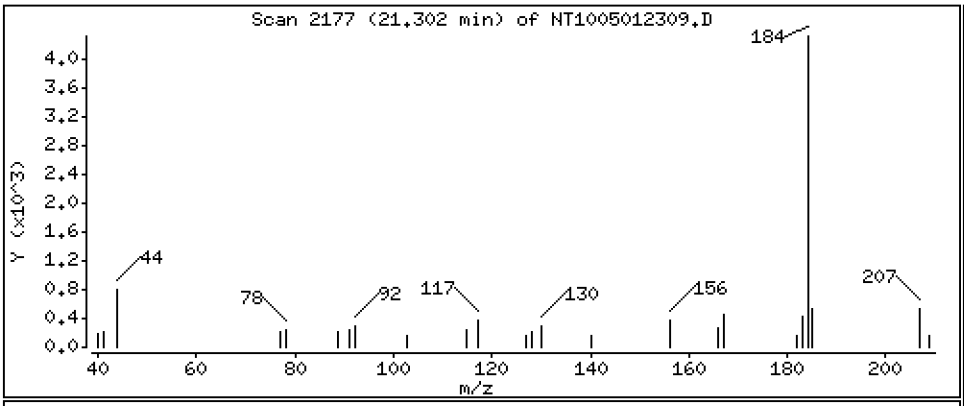
Client ID: Instrument: nt10.i

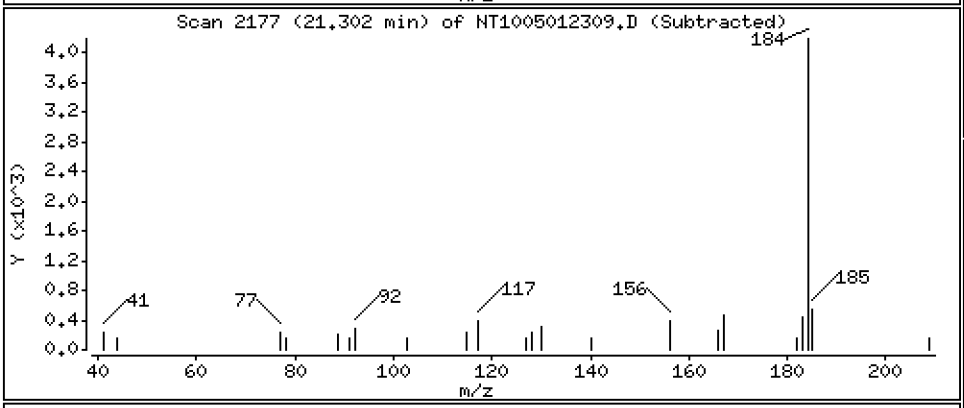
Sample Info: SEQ-SIM2

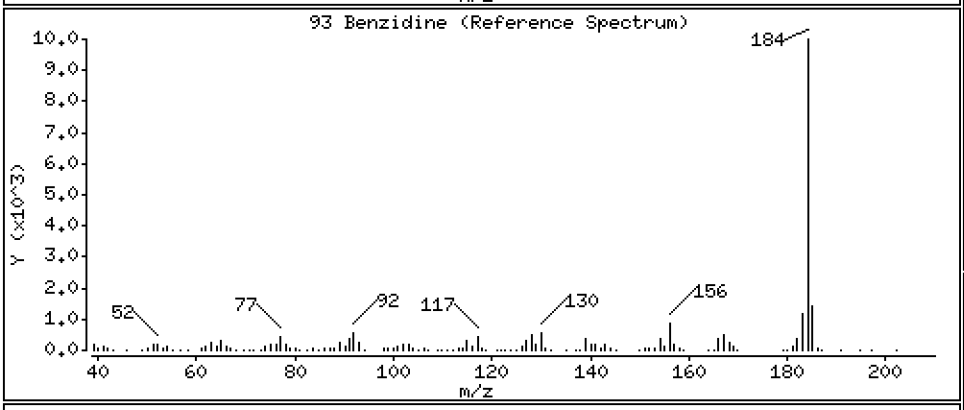
Operator: VTS

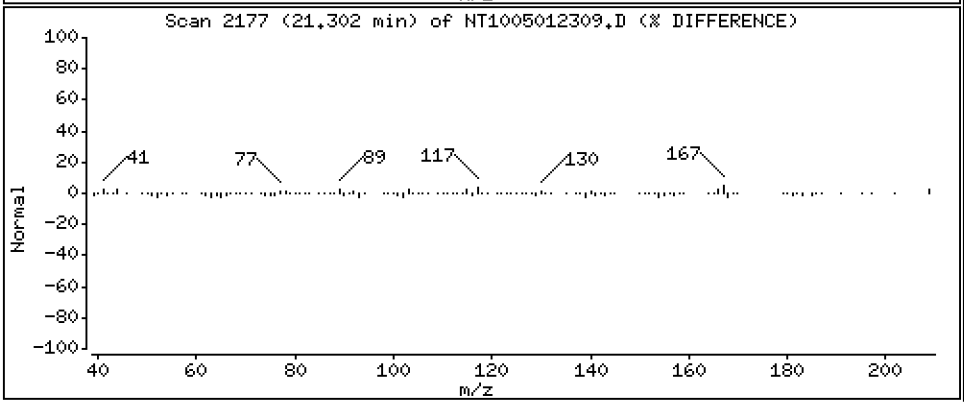
Column phase: ZB-5msi Column diameter: 0.25

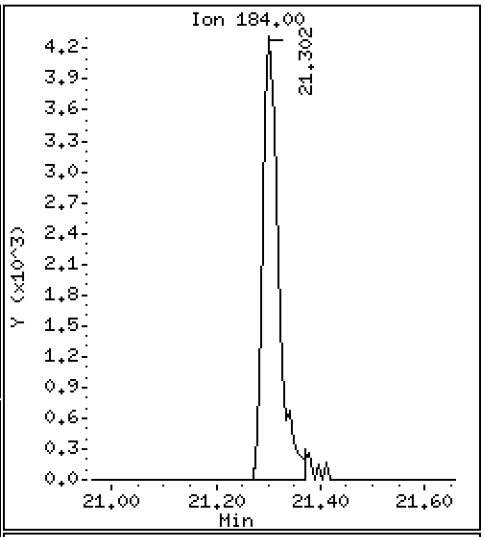
93 Benzidine Concentration: 0.1382 ug/mL

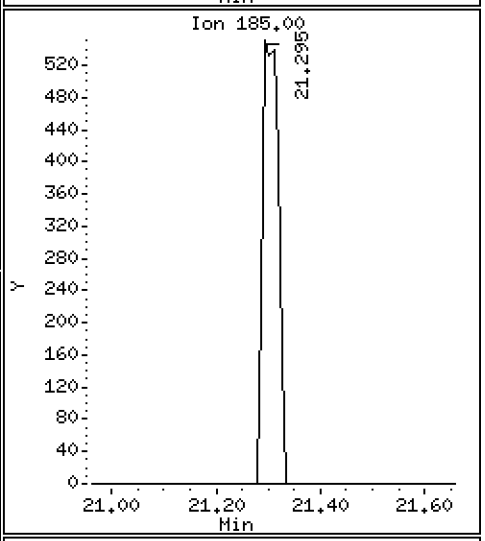


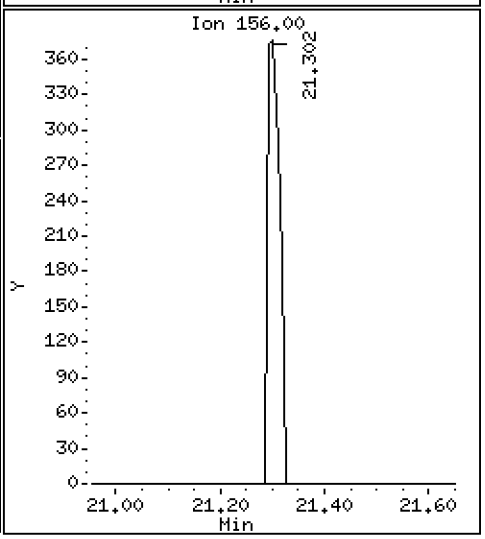












Date : 01-MAY-2023 19:25

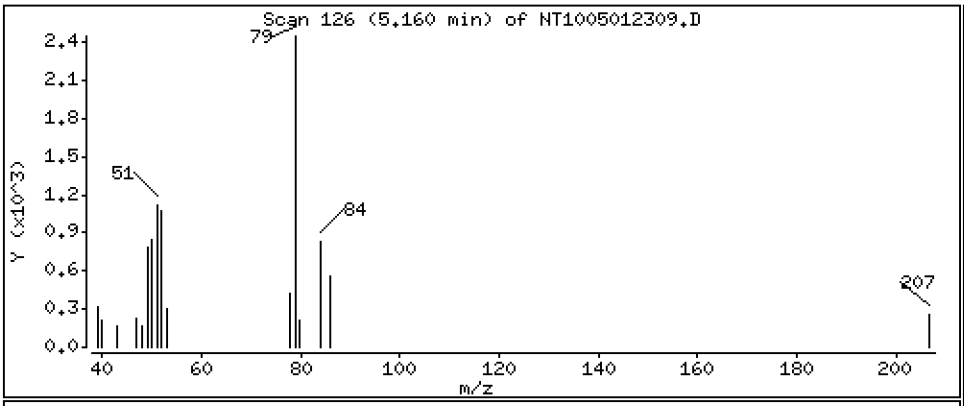
Client ID: Instrument: nt10.i

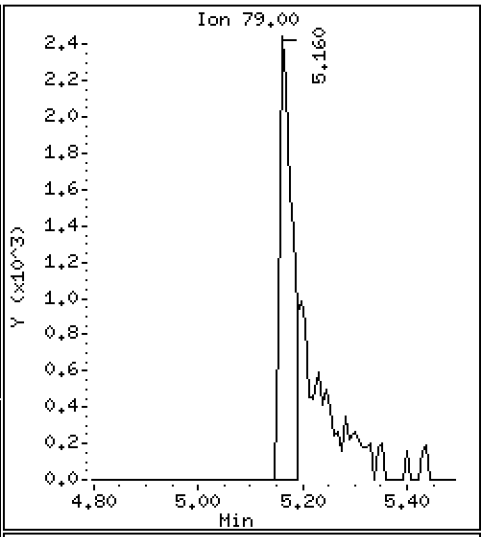
Sample Info: SEQ-SIM2

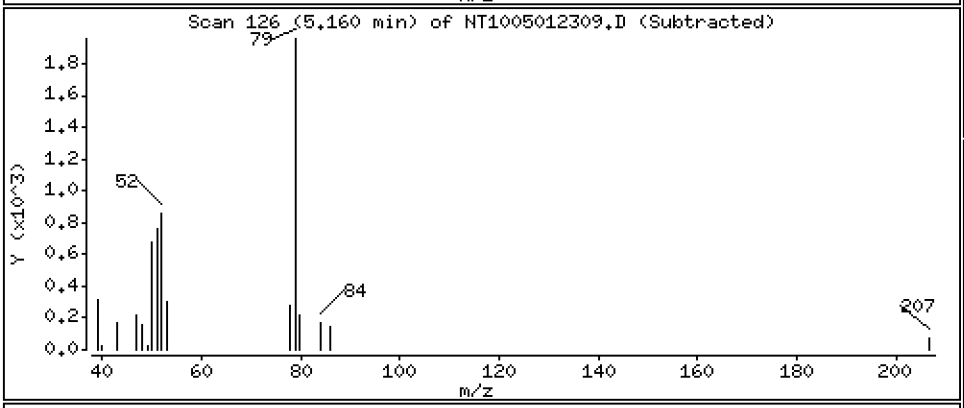
Operator: VTS

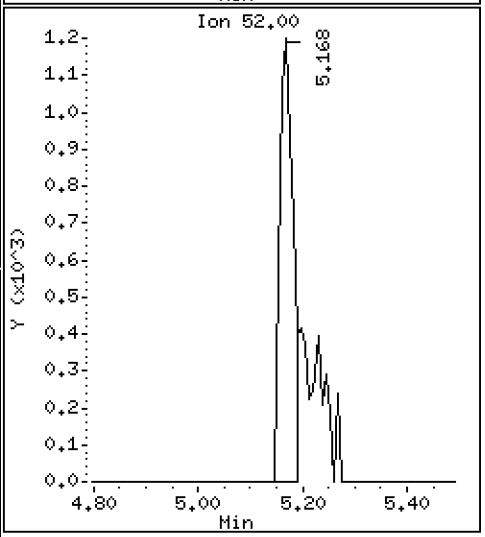
Column phase: ZB-5msi Column diameter: 0.25

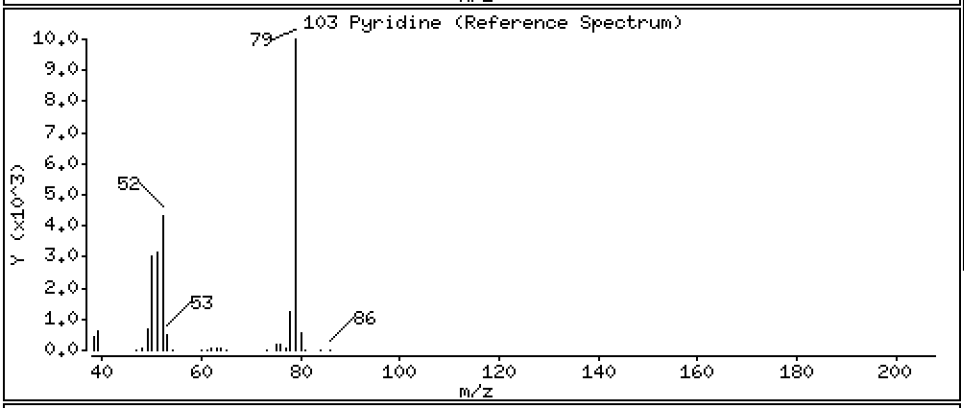
103 Pyridine

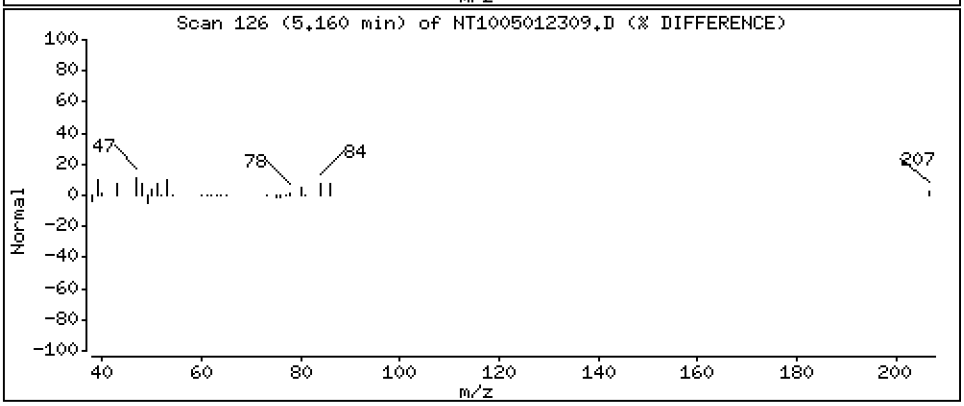












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

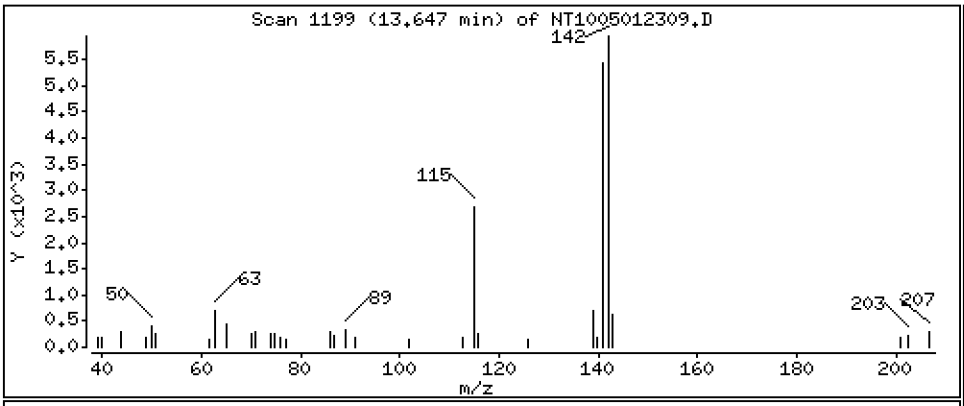
Operator: VTS

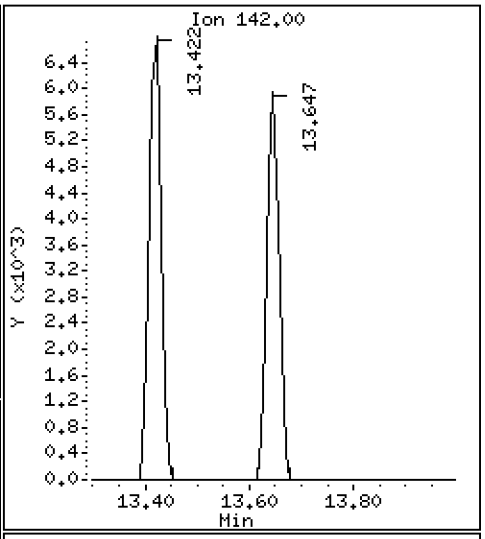
Column phase: ZB-5msi

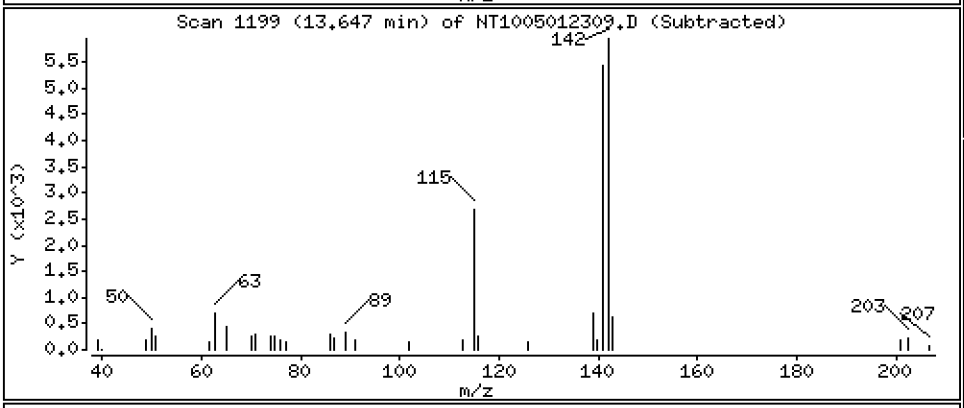
Column diameter: 0.25

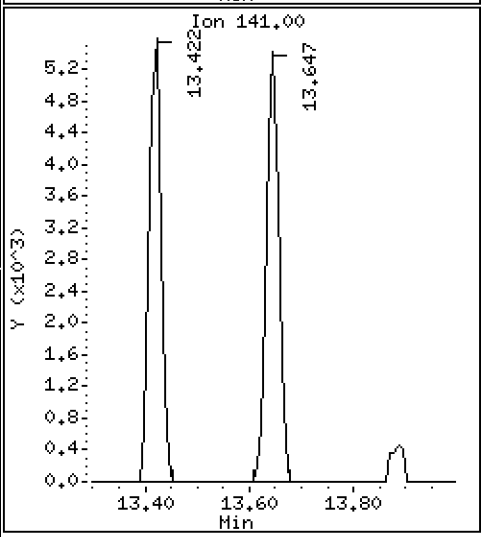
105 1-methylnaphthalene

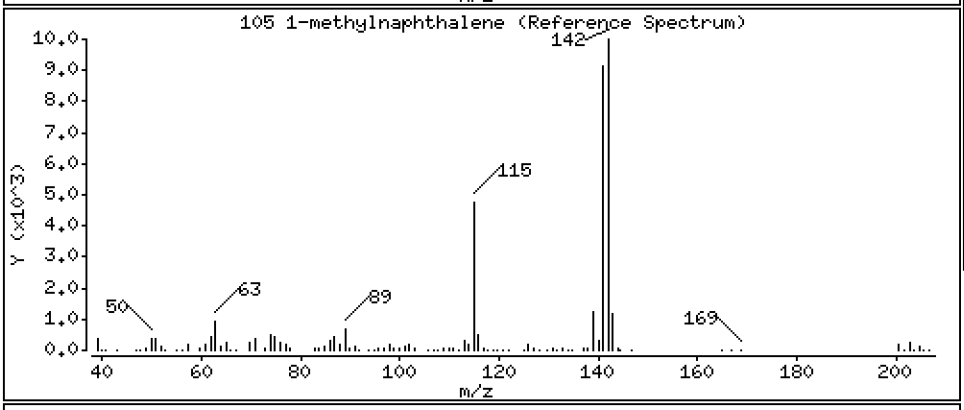
Concentration: 0.09347 ug/mL

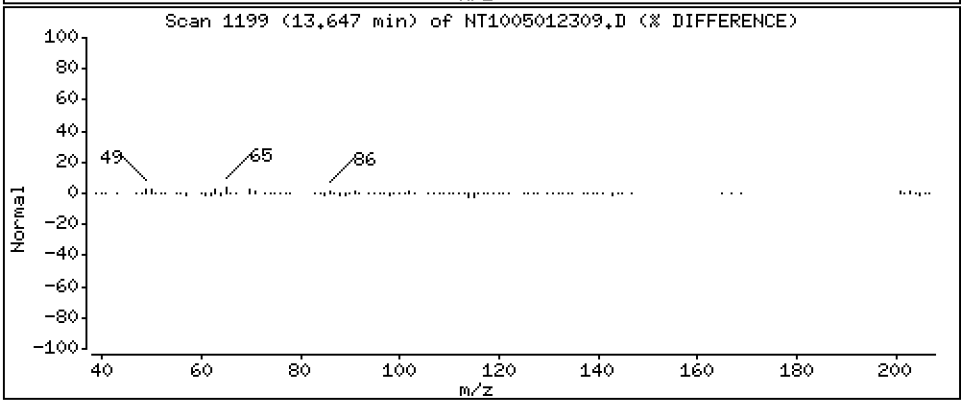












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

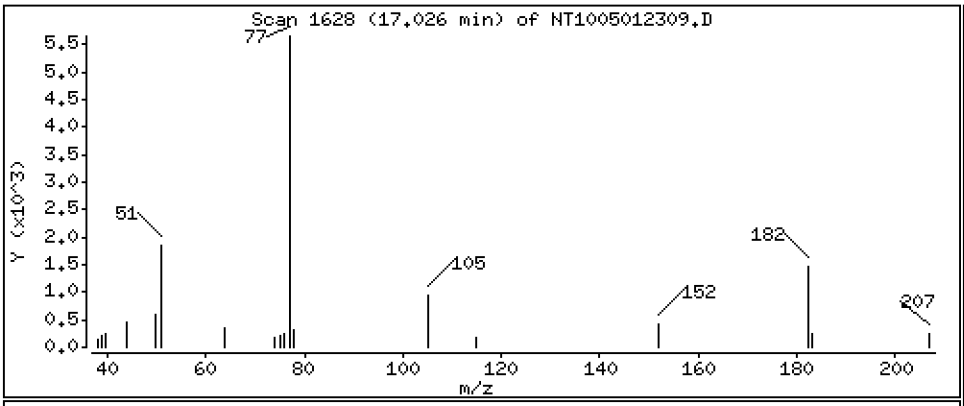
Operator: VTS

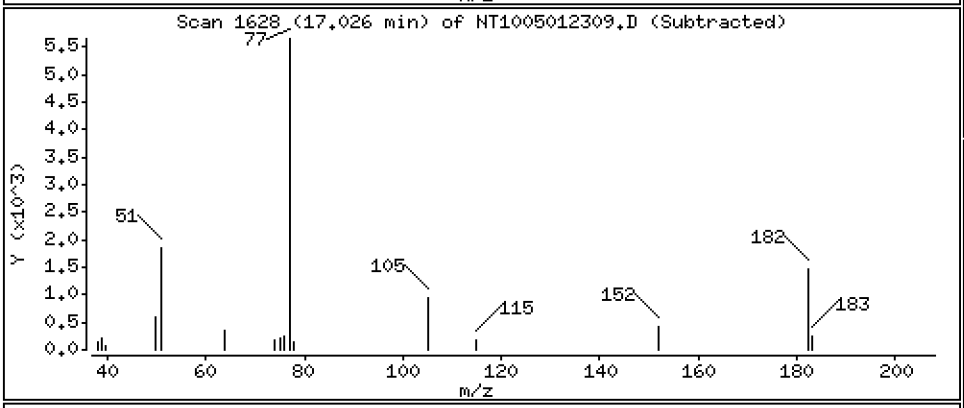
Column phase: ZB-5msi

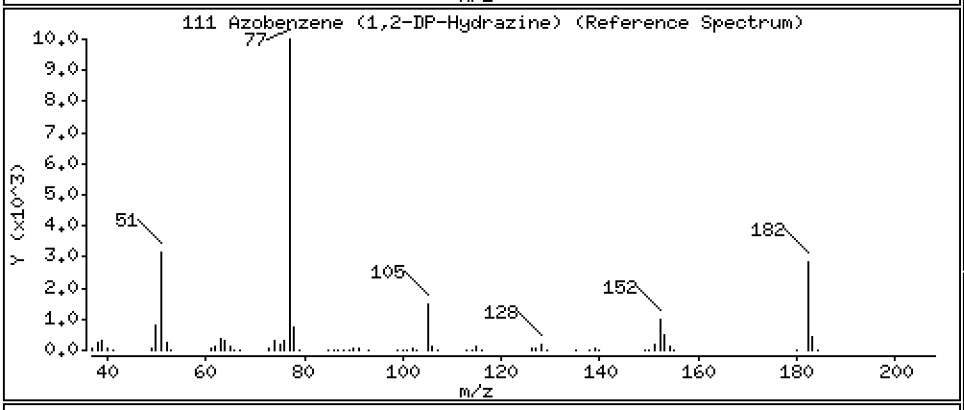
Column diameter: 0.25

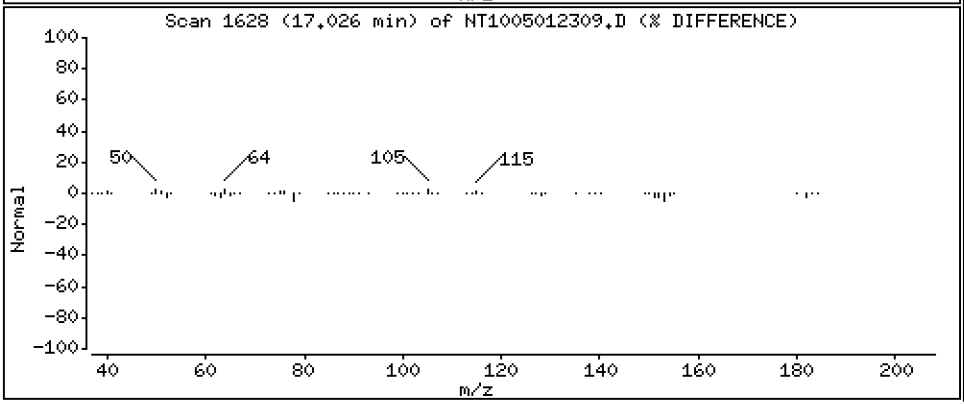
111 Azobenzene (1,2-DP-Hydrazine)

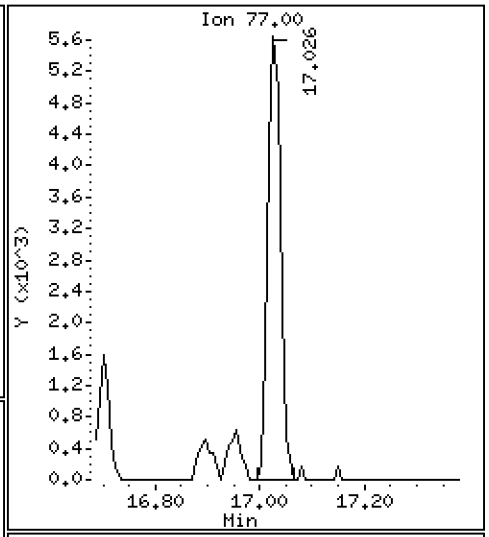
Concentration: 0.08399 ug/mL

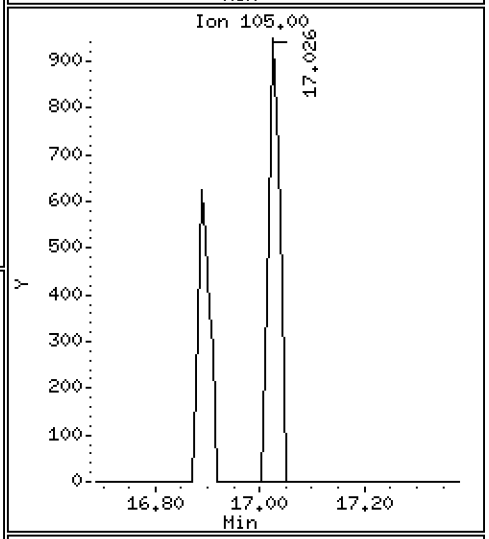


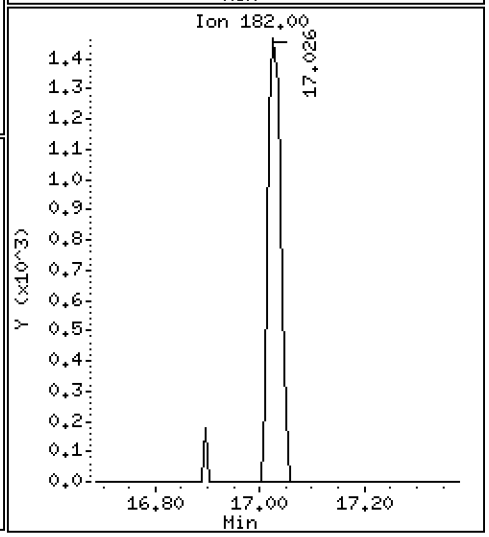












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

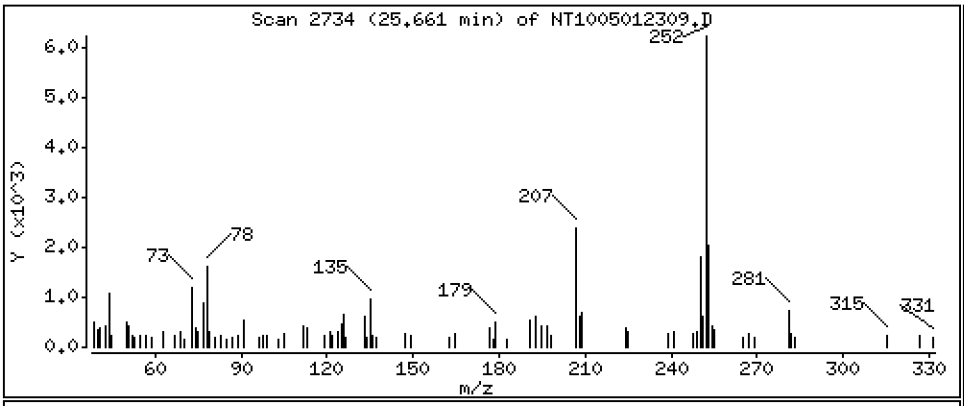
Operator: VTS

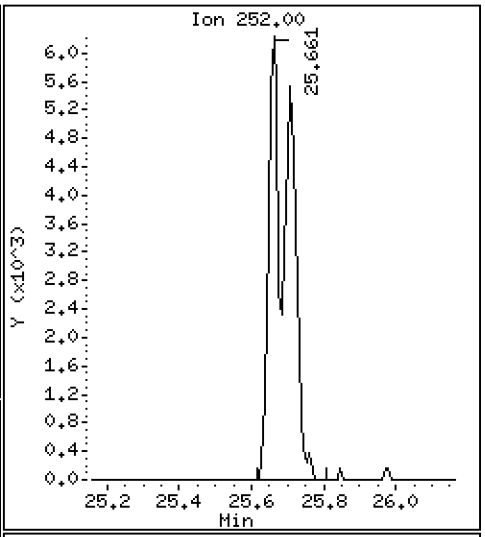
Column phase: ZB-5msi

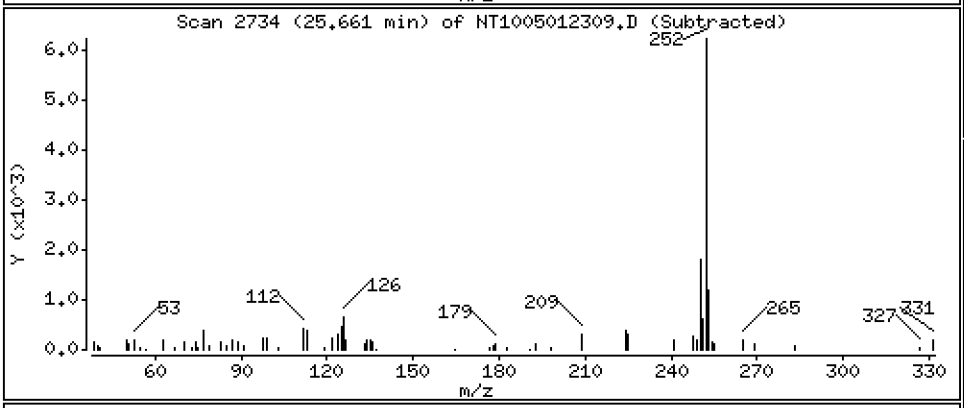
Column diameter: 0.25

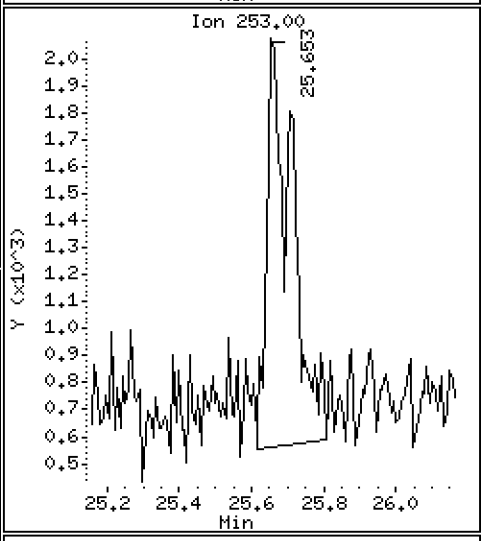
187 Total Benzofluoranthenes

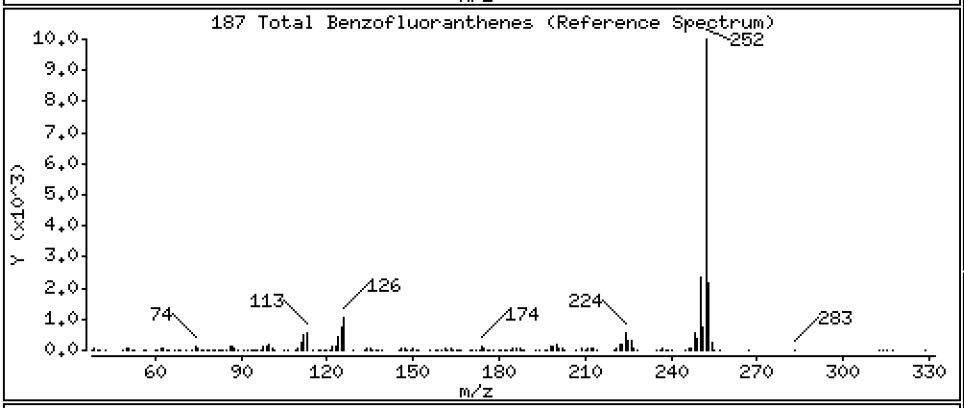
Concentration: 0.1712 ug/mL

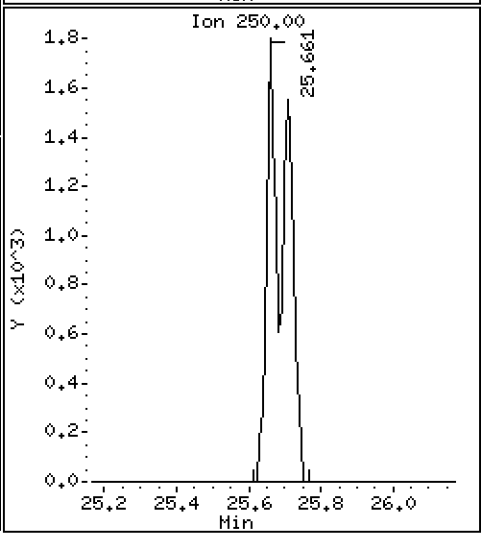


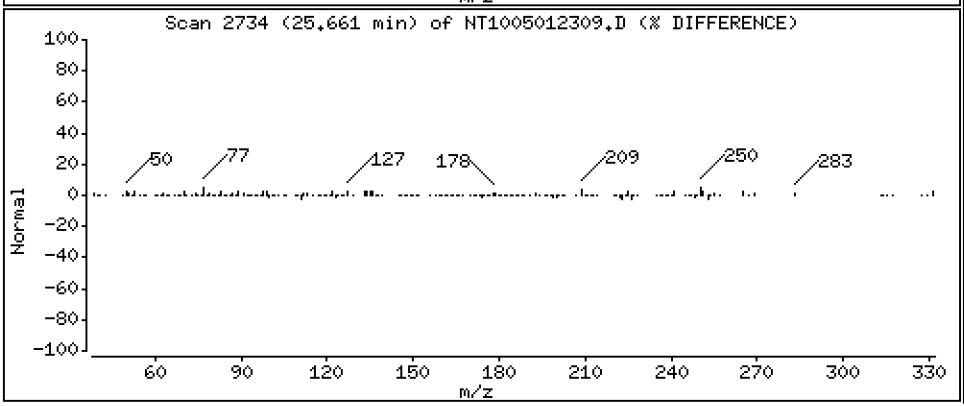












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM2

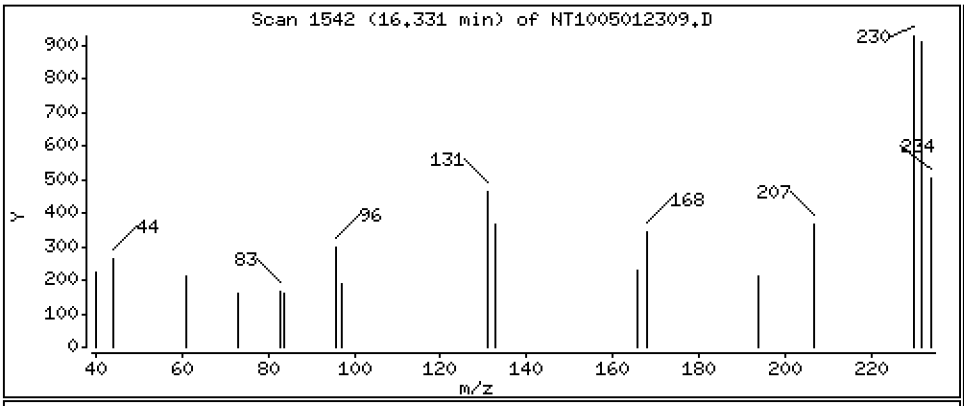
Operator: VTS

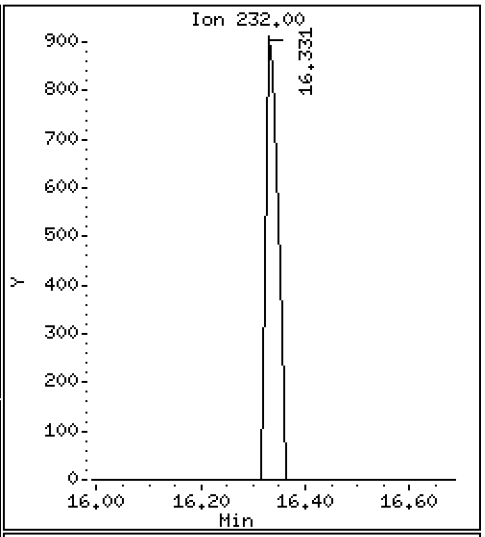
Column phase: ZB-5msi

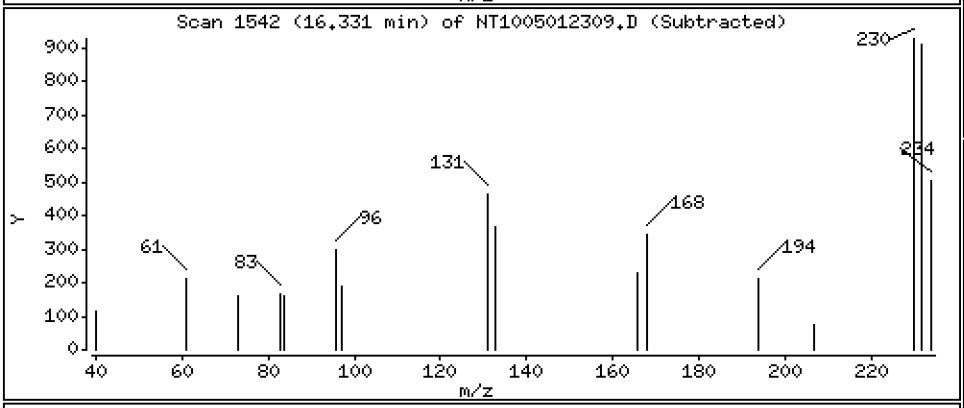
Column diameter: 0.25

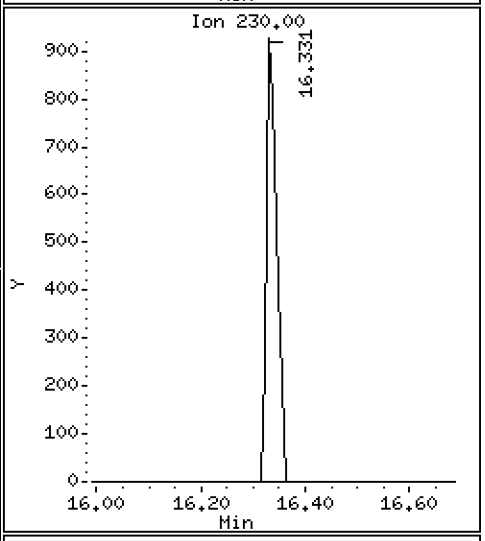
120 2,3,4,6-Tetrachlorophenol

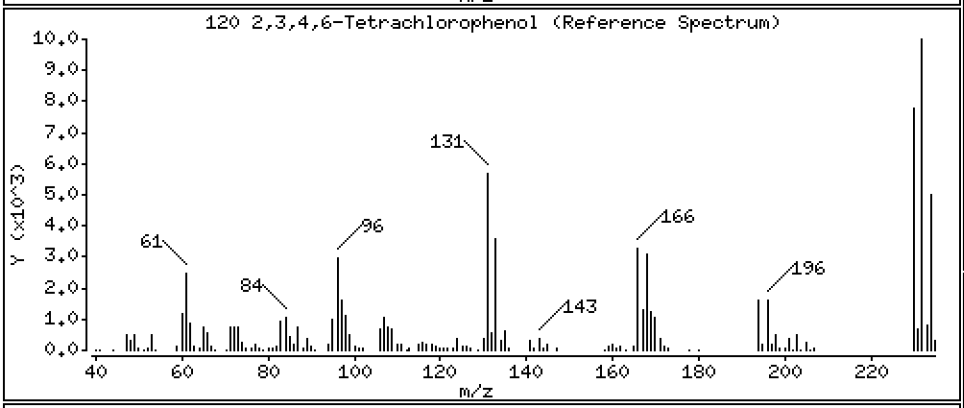
Concentration: 0.03916 ug/mL

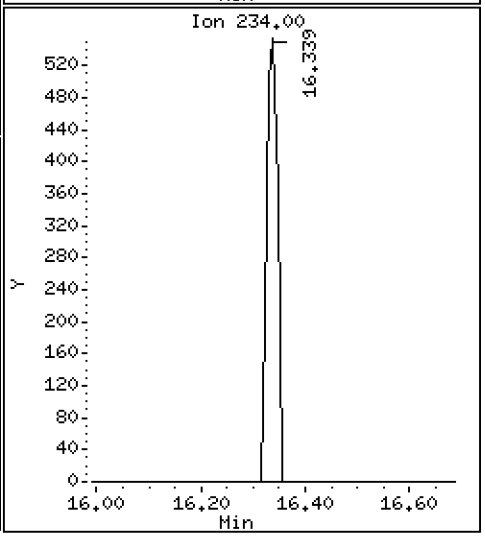


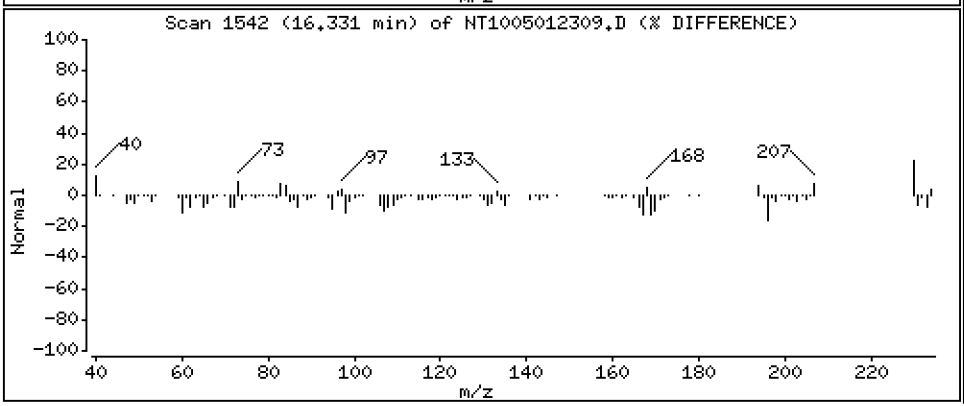












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012309.D
Lab Smp Id: SEQ-SIM2
Inj Date : 01-MAY-2023 19:25
Operator : VTS Inst ID: nt10.i
Smp Info : SEQ-SIM2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.230	7.230	(1.000)	5669		
$	2 Phenol-d5	99	8.814	8.814	(1.000)	6956		
	3 Phenol	94	8.837	8.837	(1.000)	5153		
$	5 2-Chlorophenol-d4	132	9.115	9.123	(1.000)	6810		
	4 Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	4359		
	6 2-Chlorophenol	128	9.146	9.146	(1.000)	4744		
	7 1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	5941		
*	8 1,4-Dichlorobenzene-d4	152	Compound Not Detected.					
	9 1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	5506		
$	10 1,2-Dichlorobenzene-d4	152	9.851	9.851	(1.000)	4085		
	12 1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	5388		
	11 Benzyl alcohol	108	9.751	9.750	(1.000)	2136		
	14 2,2'-oxybis(1-Chloropropane)	121	10.046	10.046	(1.000)	1192		
	13 2-Methylphenol	108	9.952	9.960	(1.000)	3704		
	17 Hexachloroethane	117	10.472	10.472	(1.000)	2683		
	16 N-Nitroso-di-n-propylamine	70	10.302	10.309	(1.000)	2996		
	15 4-Methylphenol	108	10.224	10.232	(1.000)	4617		
$	18 Nitrobenzene-d5	82	10.589	10.589	(0.884)	4989	0.08672	0.08672
	19 Nitrobenzene	77	10.620	10.628	(0.886)	5065	0.09110	0.09110
	20 Isophorone	82	11.062	11.062	(0.923)	5133	0.07755	0.07755
	21 2-Nitrophenol	139	11.249	11.249	(0.939)	1663	0.05621	0.05621
	22 2,4-Dimethylphenol	107	11.274	11.283	(0.941)	9018	0.16610	0.1661
	23 Bis(2-Chloroethoxy)methane	93	11.478	11.486	(0.958)	4205	0.09938	0.09938
	24 Benzoic acid	105	11.351	11.359	(0.947)	2002	0.05332	0.05332
	25 2,4-Dichlorophenol	162	11.698	11.698	(0.976)	6836	0.16028	0.1603
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.993)	5117	0.08376	0.08376
*	27 Naphthalene-d8	136	11.983	11.983	(1.000)	514816	4.00000	
	28 Naphthalene	128	12.022	12.022	(1.003)	14095	0.09813	0.09813
	29 4-Chloroaniline	127	12.145	12.145	(1.014)	8533	0.16145	0.1614
	30 Hexachlorobutadiene	225	12.377	12.377	(1.033)	3283	0.09745	0.09745
	31 4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	6255	0.13457	0.1346
	32 2-Methylnaphthalene	142	13.422	13.422	(1.120)	10293	0.09585	0.09585
	33 Hexachlorocyclopentadiene	237	13.886	13.886	(0.889)	4980	0.14367	0.1437
	34 2,4,6-Trichlorophenol	196	14.033	14.041	(0.899)	3984	0.11668	0.1167

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.904)	4263	0.11449	0.1145
$	36	2-Fluorobiphenyl	172	14.196	14.203	(0.909)	11437	0.09477	0.09477
	37	2-Chloronaphthalene	162	14.420	14.420	(0.924)	9411	0.09901	0.09901
	38	2-Nitroaniline	65	14.676	14.676	(0.940)	3235	0.11720	0.1172
	39	Dimethylphthalate	163	15.094	15.101	(0.967)	10307	0.09644	0.09644
	40	Acenaphthylene	152	15.295	15.303	(0.980)	12684	0.08549	0.08549
	41	2,6-Dinitrotoluene	165	15.241	15.248	(0.976)	2805	0.11627	0.1163
*	42	Acenaphthene-d10	164	15.612	15.612	(1.000)	278751	4.00000	
	43	3-Nitroaniline	138	15.589	15.527	(0.999)	149	0.00627	0.006275
	44	Acenaphthene	153	15.682	15.682	(1.004)	8920	0.09453	0.09453
	45	2,4-Dinitrophenol	184	15.736	15.743	(1.008)	695	0.03758	0.03758
	46	Dibenzofuran	168	16.006	16.006	(1.025)	12913	0.09386	0.09386
	47	4-Nitrophenol	109	15.828	15.828	(1.014)	1207	0.05456	0.05456
	48	2,4-Dinitrotoluene	165	16.053	16.060	(1.028)	3319	0.09660	0.09660
	50	Diethylphthalate	149	16.555	16.555	(1.060)	9278	0.08361	0.08361
	49	Fluorene	166	16.725	16.725	(1.071)	10268	0.09047	0.09047
	51	4-Chlorophenyl-phenylether	204	16.702	16.702	(1.070)	5220	0.09236	0.09236
	52	4-Nitroaniline	138	16.802	16.810	(1.076)	2016	0.08740	0.08740
	53	4,6-Dinitro-2-methylphenol	198	16.895	16.902	(0.905)	2305	0.11855	0.1185
	54	N-Nitrosodiphenylamine	169	16.956	16.956	(0.909)	6175	0.09363	0.09363
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.106)	1111	0.08320	0.08320
	56	4-Bromophenyl-phenylether	248	17.712	17.712	(0.949)	2852	0.09161	0.09161
	57	Hexachlorobenzene	284	18.037	18.044	(0.966)	2960	0.09472	0.09472
	58	Pentachlorophenol	266	18.393	18.393	(0.985)	1516	0.07130	0.07130
*	59	Phenanthrene-d10	188	18.664	18.671	(1.000)	499058	4.00000	
	60	Phenanthrene	178	18.710	18.718	(1.002)	14654	0.10007	0.1001
	61	Anthracene	178	18.811	18.811	(1.008)	11421	0.08440	0.08440
	62	Carbazole	167	19.128	19.136	(1.025)	10653	0.08894	0.08894
	63	Di-n-butylphthalate	149	19.894	19.901	(1.066)	10802	0.06031	0.06031
	64	Fluoranthene	202	21.078	21.085	(0.890)	14165	0.07954	0.07954
	65	Pyrene	202	21.503	21.503	(0.908)	14859	0.08353	0.08353
$	66	Terphenyl-d14	244	21.774	21.774	(0.920)	12280	0.08728	0.08728
	67	Butylbenzylphthalate	149	22.680	22.687	(0.958)	4146	0.04963	0.04963
	68	Benzo(a)anthracene	228	23.648	23.655	(0.999)	14687	0.09301	0.09301
*	69	Chrysene-d12	240	23.679	23.686	(1.000)	398872	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.601	23.601	(0.997)	11852	0.24717	0.2472
	71	Chrysene	228	23.725	23.733	(1.002)	15140	0.10712	0.1071
	72	bis(2-Ethylhexyl)phthalate	149	23.694	23.702	(0.958)	6133	0.07357	0.07357
*	134	Di-n-octylphthalate-d4	153	24.724	24.724	(1.000)	578745	4.00000	
	73	Di-n-octylphthalate	149	24.739	24.739	(1.001)	17382	0.11384	0.1138
	74	Benzo(b)fluoranthene	252	25.661	25.660	(0.968)	12756	0.08534	0.08534
	75	Benzo(k)fluoranthene	252	25.707	25.715	(0.969)	11841	0.07983	0.07983
	76	Benzo(a)pyrene	252	26.381	26.388	(0.995)	10396	0.08309	0.08309
*	77	Perylene-d12	264	26.520	26.520	(1.000)	363873	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.467	29.483	(1.111)	12176	0.08101	0.08101
	79	Dibenzo(a,h)anthracene	278	29.483	29.491	(1.112)	10515	0.08353	0.08353
	80	Benzo(g,h,i)perylene	276	30.353	30.353	(1.145)	11554	0.09644	0.09644
	90	N-Nitrosodimethylamine	74	5.083	5.083	(1.000)	4269		
	91	Aniline	93	8.938	8.938	(1.000)	8903		
	93	Benzidine	184	21.302	21.310	(0.900)	8783	0.13825	0.1382
	103	Pyridine	79	5.160	5.144	(1.000)	4313		
	105	1-methylnaphthalene	142	13.646	13.646	(1.139)	9203	0.09347	0.09347
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.026	17.034	(1.091)	9105	0.08399	0.08399
	187	Total Benzofluoranthenes	252	25.661	25.660	(0.968)	24636	0.17122	0.1712

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.331	16.339	(1.046)	1403	0.03916	0.03916

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012309.D
Lab Smp Id: SEQ-SIM2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	144303	72152	288606	0	-100.00	<-
27 Naphthalene-d8	493698	246849	987396	514816	4.28	
42 Acenaphthene-d10	279210	139605	558420	278751	-0.16	
59 Phenanthrene-d10	521463	260732	1042926	499058	-4.30	
69 Chrysene-d12	369911	184956	739822	398872	7.83	
134 Di-n-octylphthala	626668	313334	1253336	578745	-7.65	
77 Perylene-d12	311339	155670	622678	363873	16.87	

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	9.49	8.99	9.99	0.00	-100.00	<-
27 Naphthalene-d8	11.99	11.49	12.49	11.98	-0.06	
42 Acenaphthene-d10	15.62	15.12	16.12	15.61	-0.05	
59 Phenanthrene-d10	18.68	18.18	19.18	18.66	-0.08	
69 Chrysene-d12	23.70	23.20	24.20	23.68	-0.10	
134 Di-n-octylphthala	24.75	24.25	25.25	24.72	-0.09	
77 Perylene-d12	26.55	26.05	27.05	26.52	-0.12	

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

REVIEW SUMMARY FOR FILE - NT1005012309.D

Lab ID: SEQ-SIM2
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 19:25

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.059	-0.0589	2,2'-oxybis(1-Chloropropane)

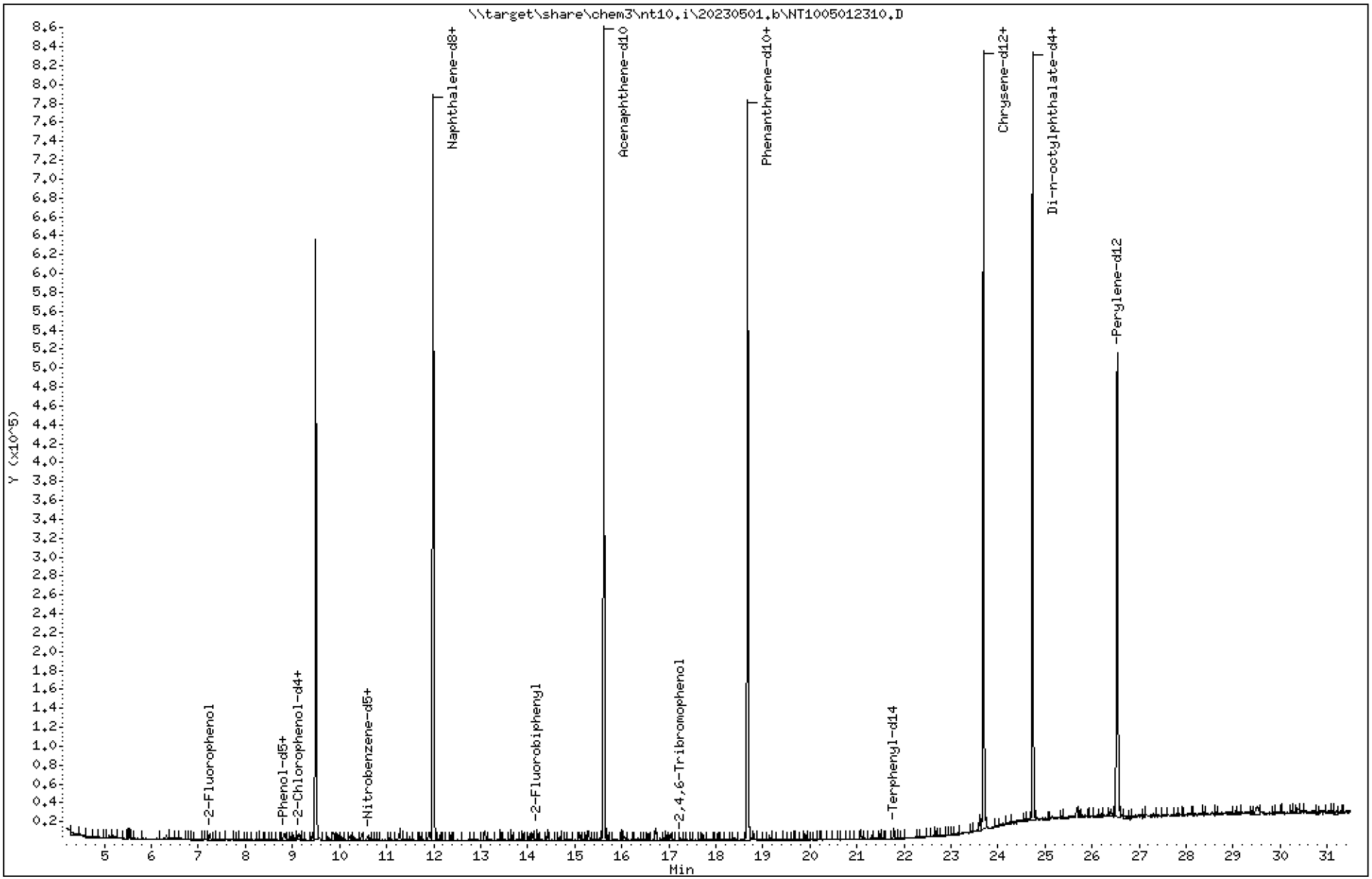
RRT check based on Ccal File: NT1005012308.D

On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D
Date : 01-MAY-2023 20:04
Client ID:
Sample Info: SEQ-SIM1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 680 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

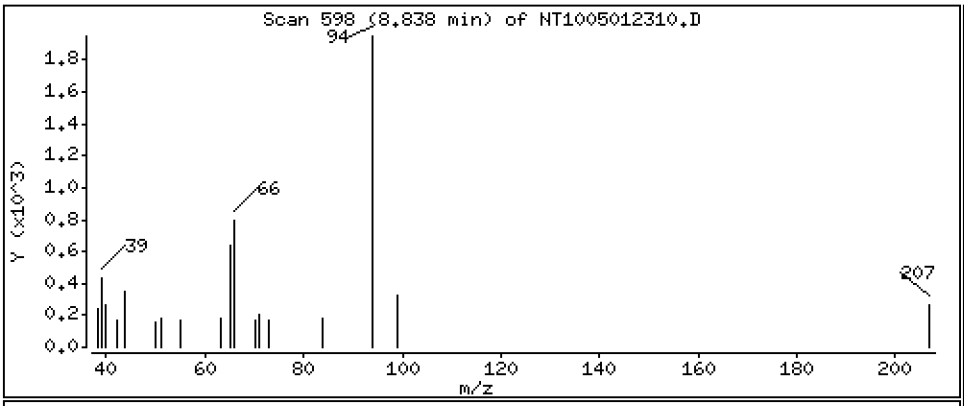
Sample Info: SEQ-SIM1

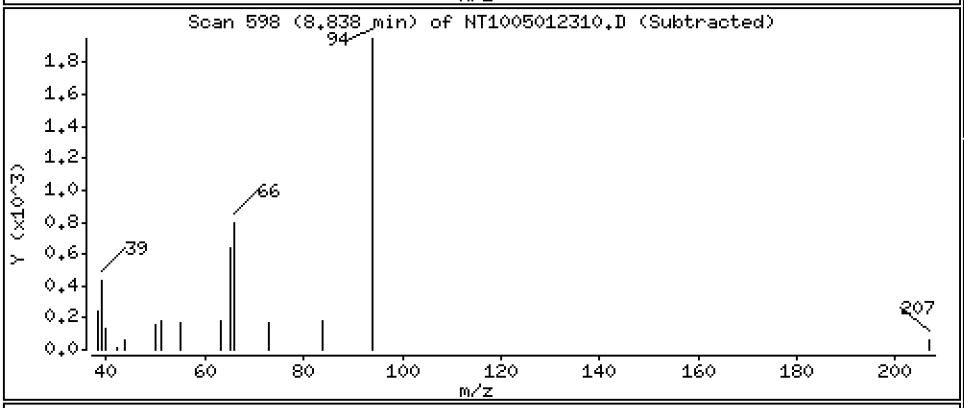
Operator: VTS

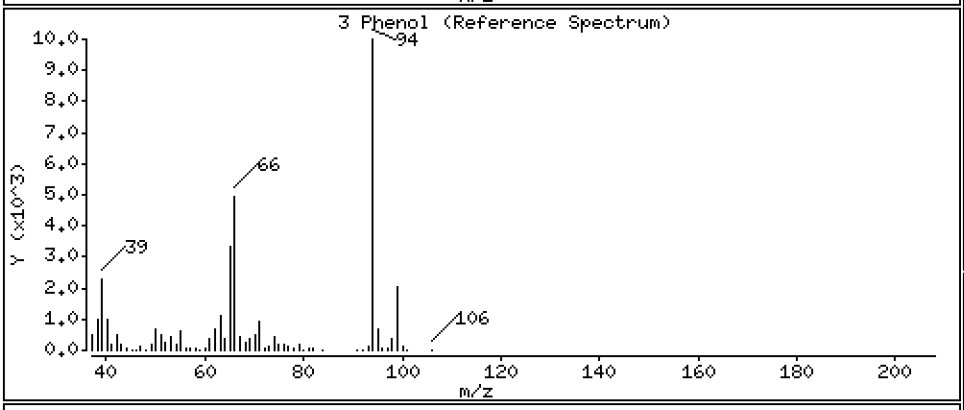
Column phase: ZB-5msi

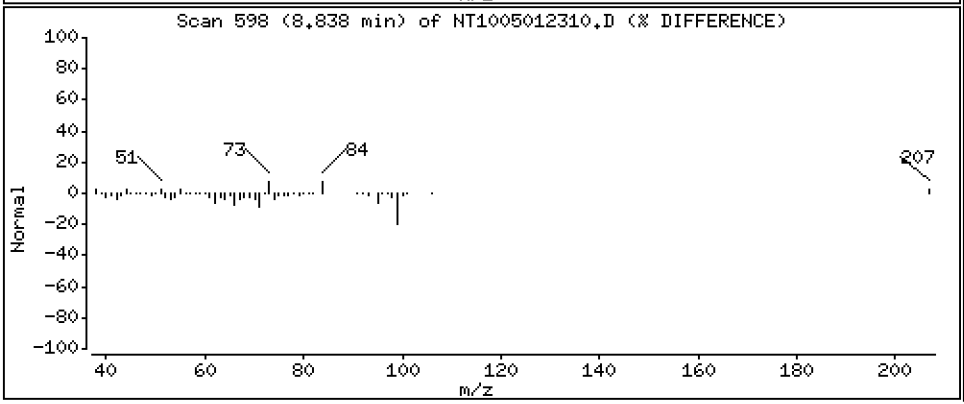
Column diameter: 0.25

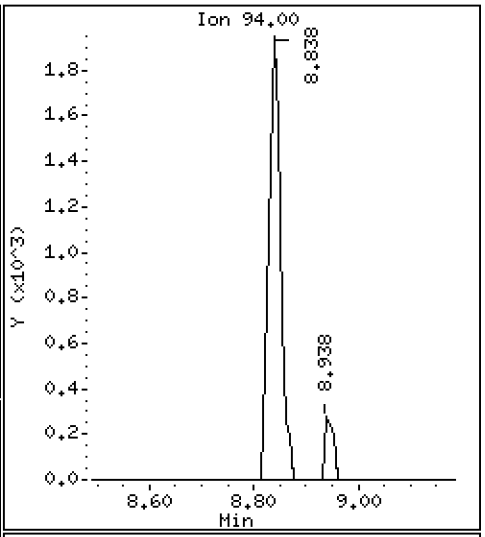
3 Phenol

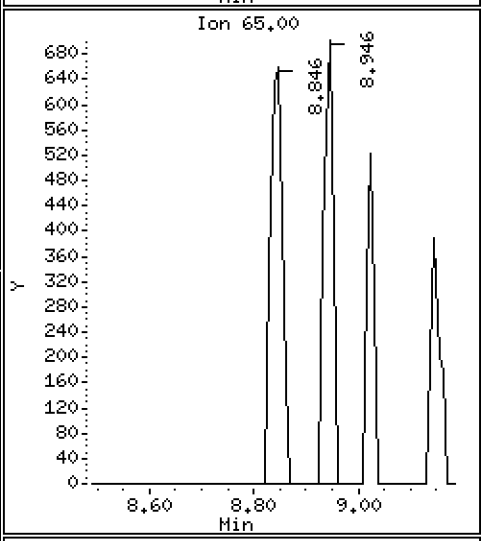


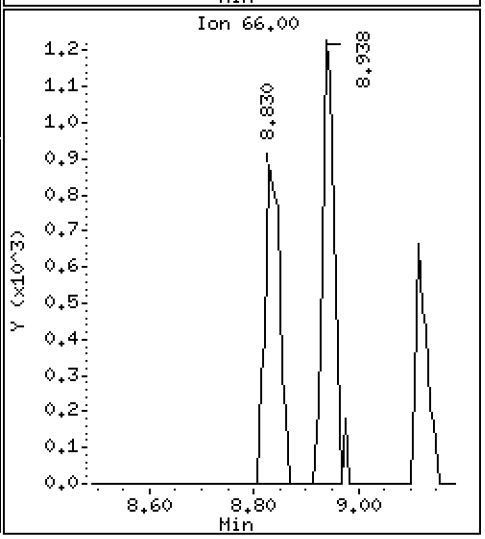












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

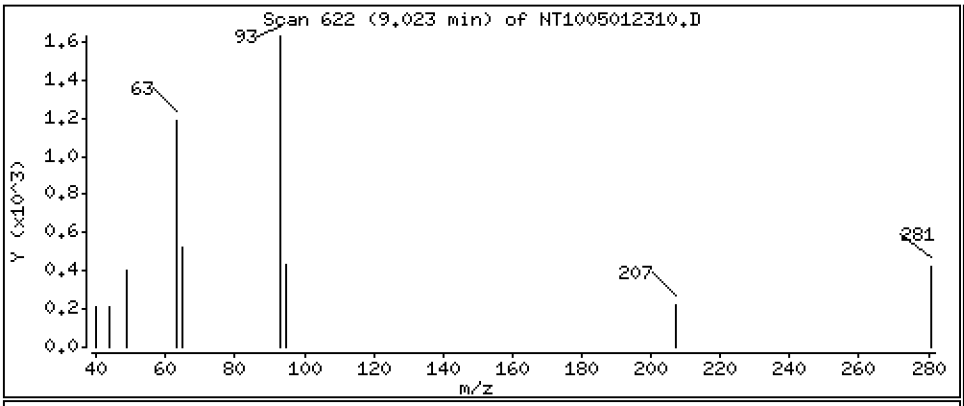
Sample Info: SEQ-SIM1

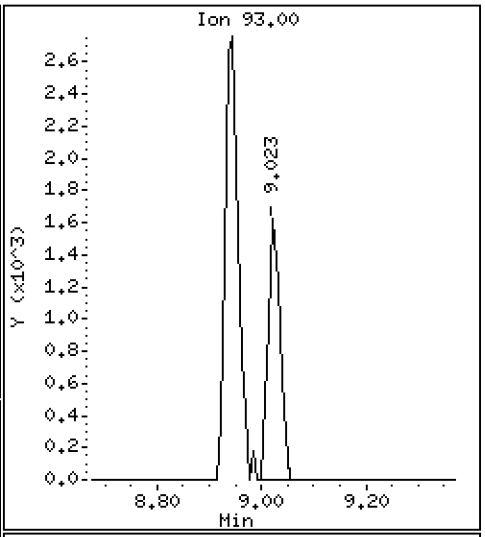
Operator: VTS

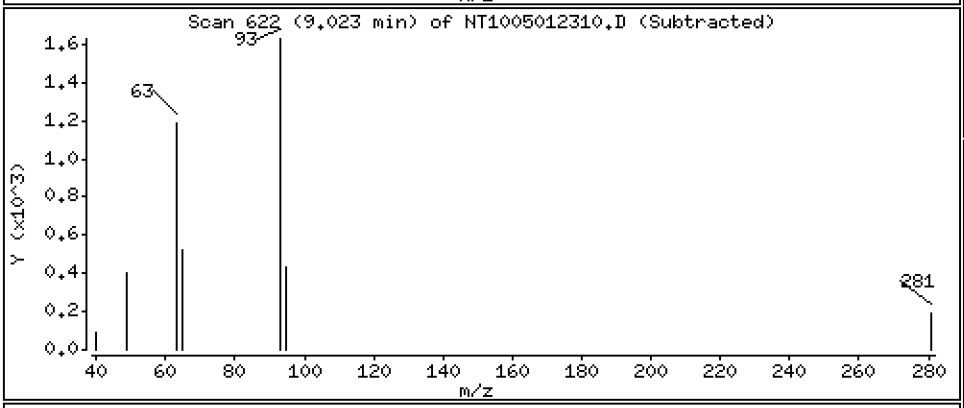
Column phase: ZB-5msi

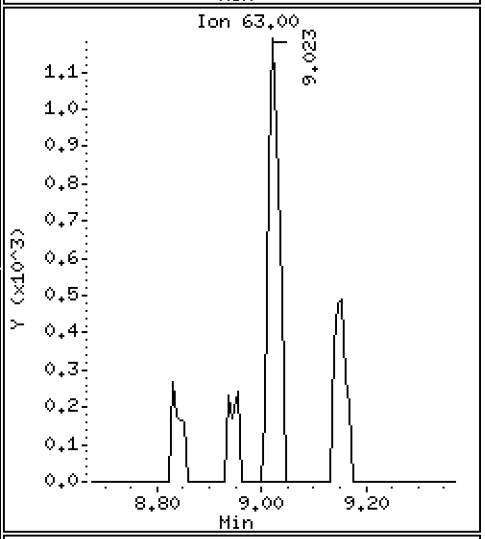
Column diameter: 0.25

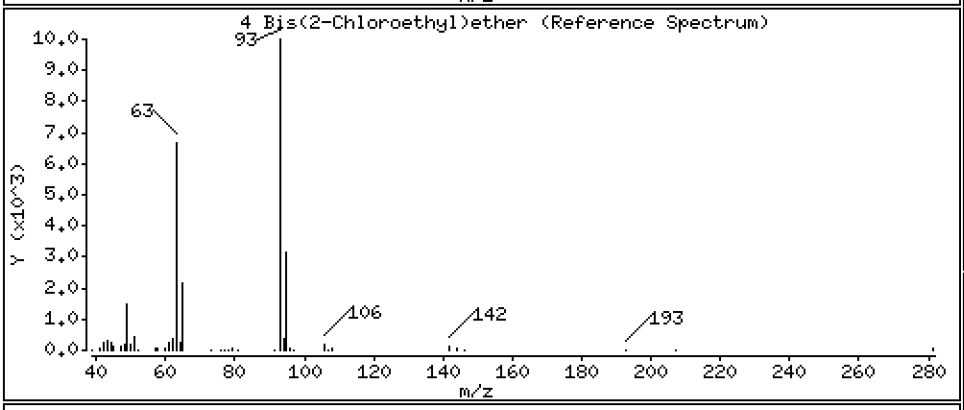
4 Bis(2-Chloroethyl)ether

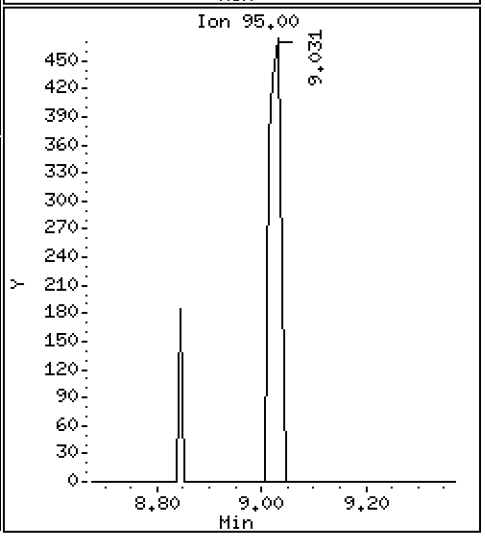


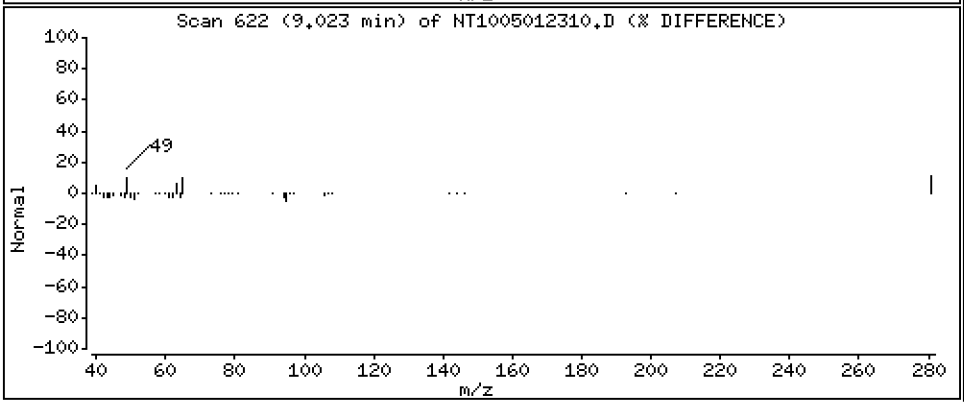












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

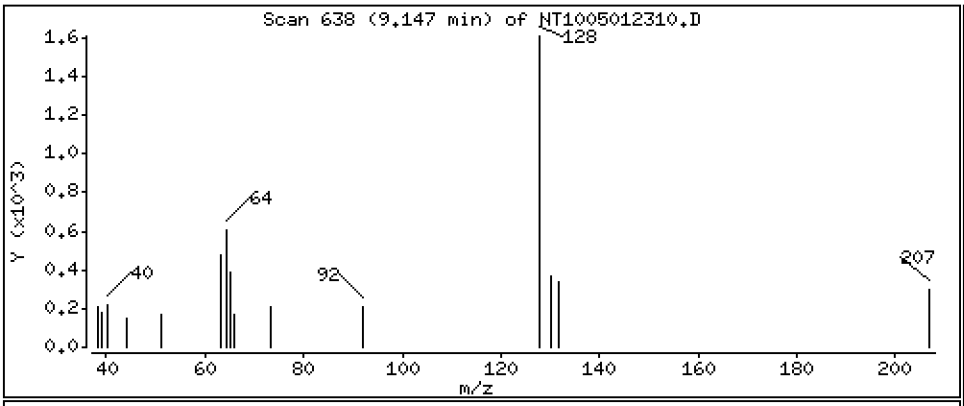
Sample Info: SEQ-SIM1

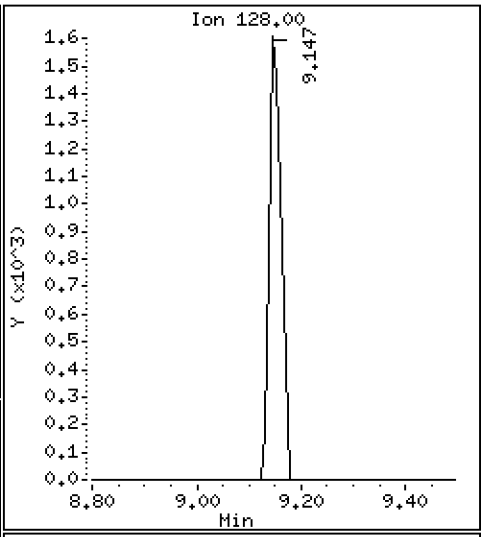
Operator: VTS

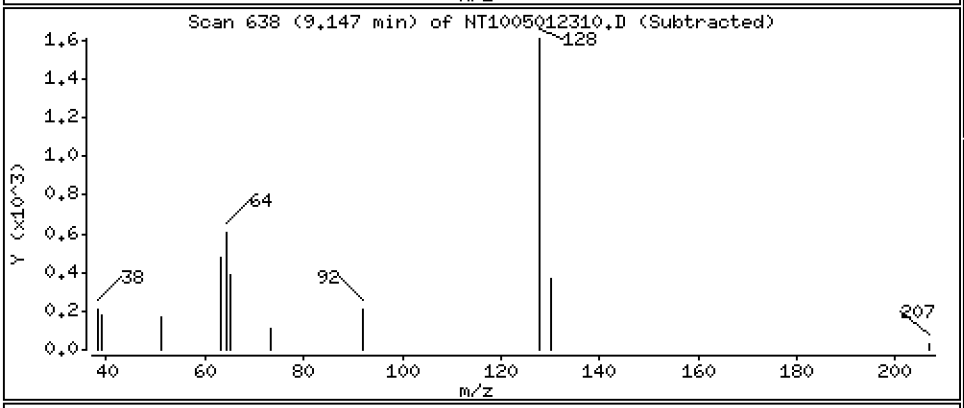
Column phase: ZB-5msi

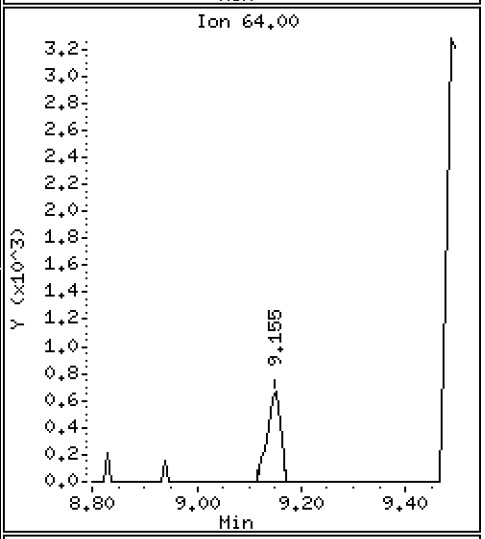
Column diameter: 0.25

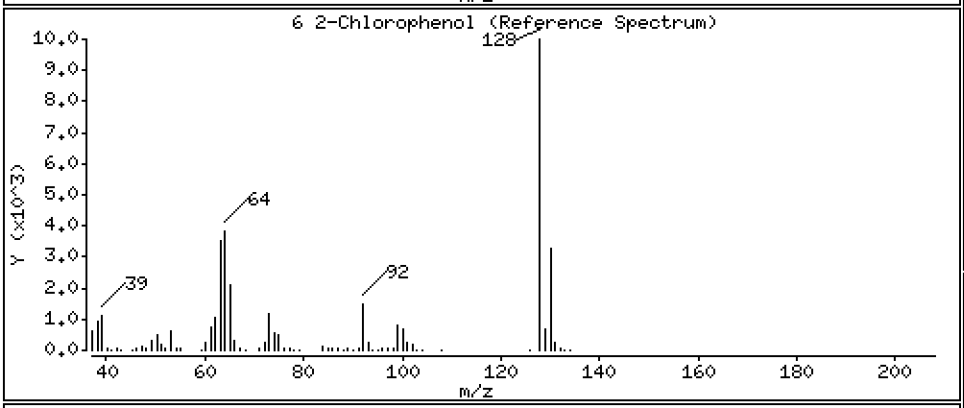
6 2-Chlorophenol

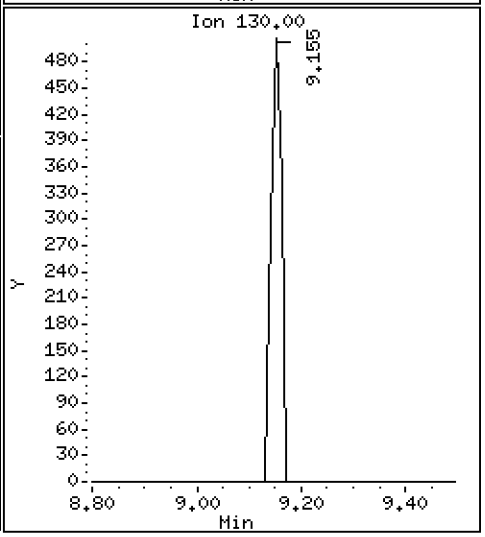


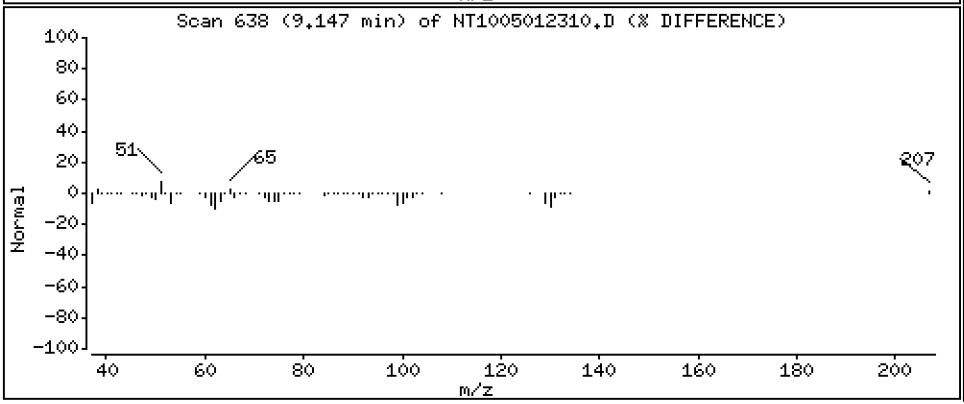












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

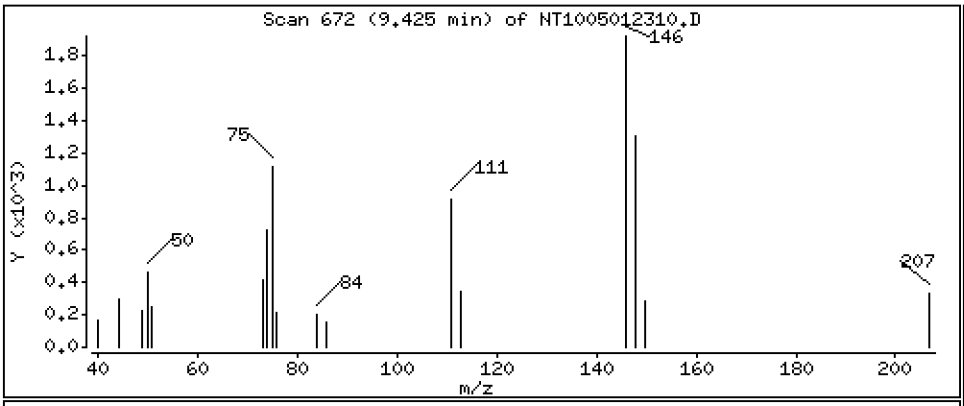
Sample Info: SEQ-SIM1

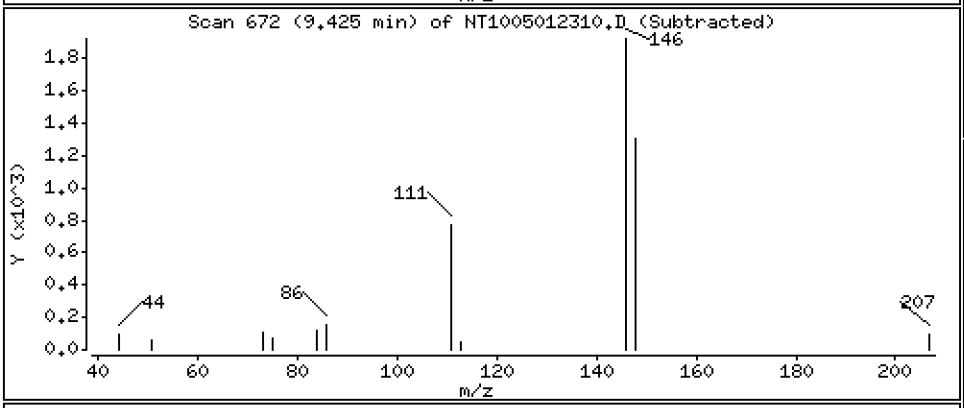
Operator: VTS

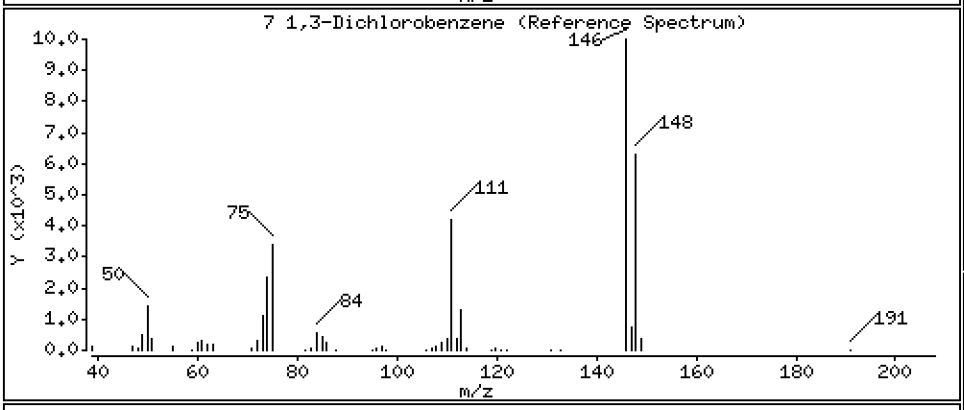
Column phase: ZB-5msi

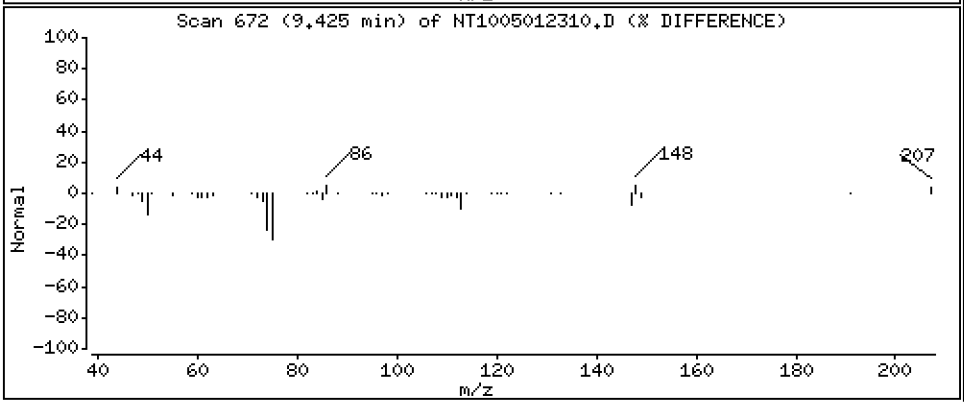
Column diameter: 0.25

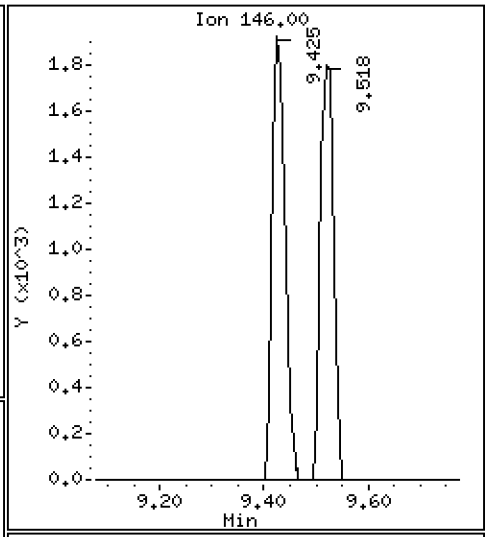
7 1,3-Dichlorobenzene

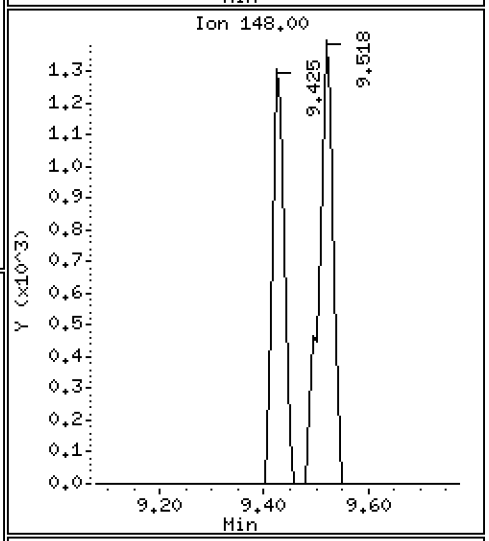


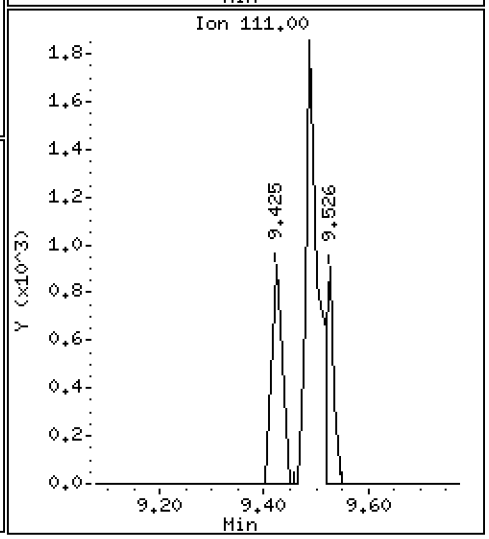












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

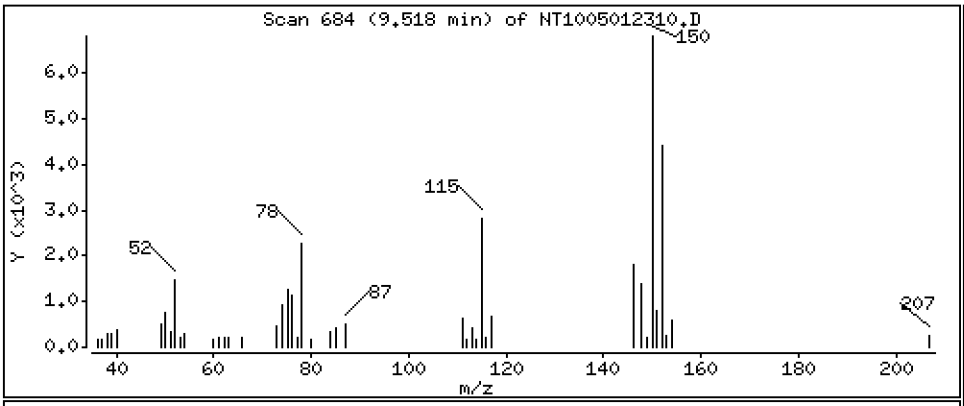
Sample Info: SEQ-SIM1

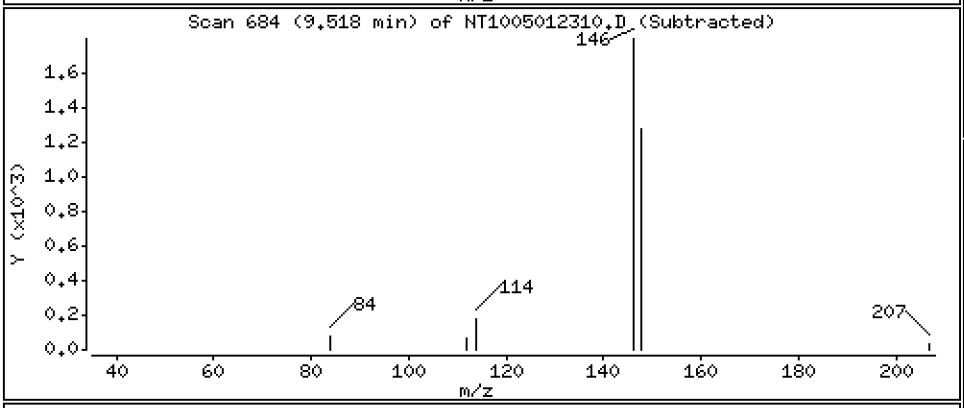
Operator: VTS

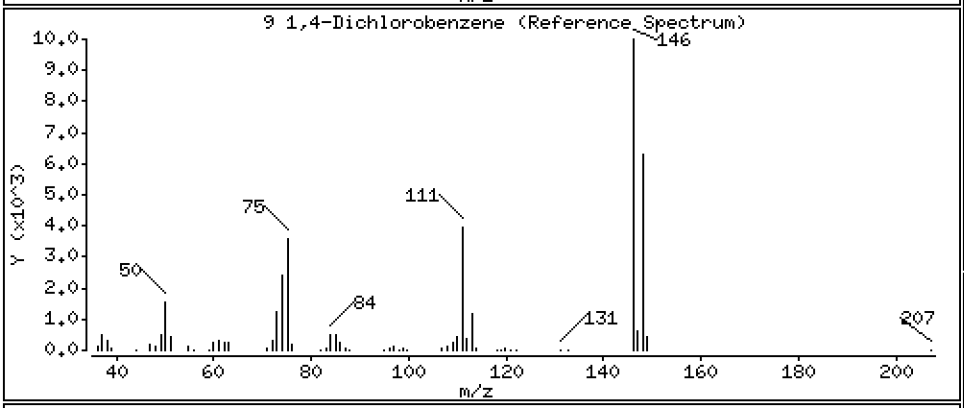
Column phase: ZB-5msi

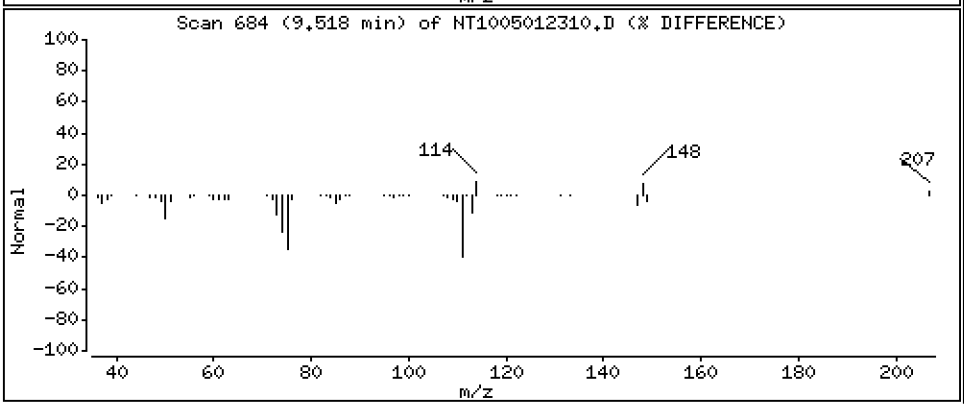
Column diameter: 0.25

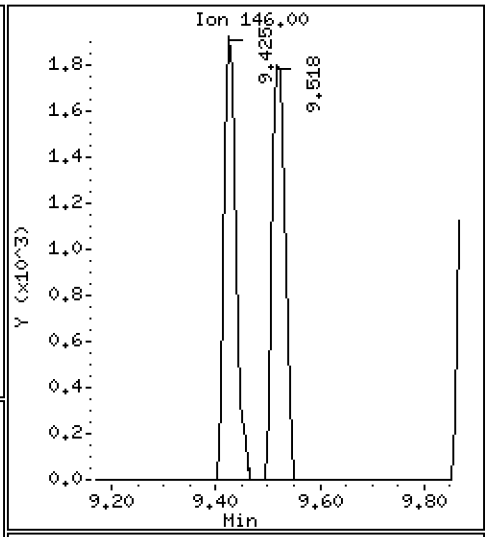
9 1,4-Dichlorobenzene

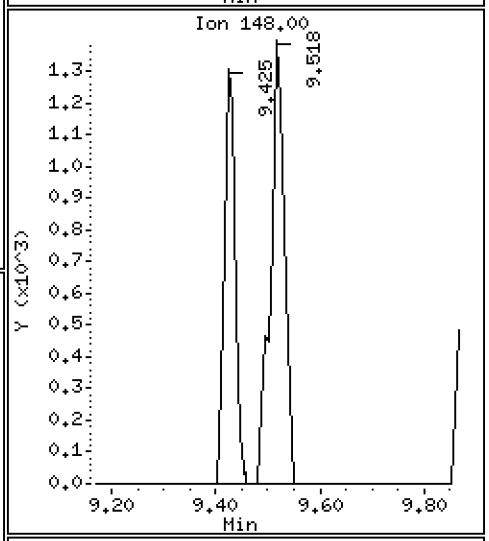


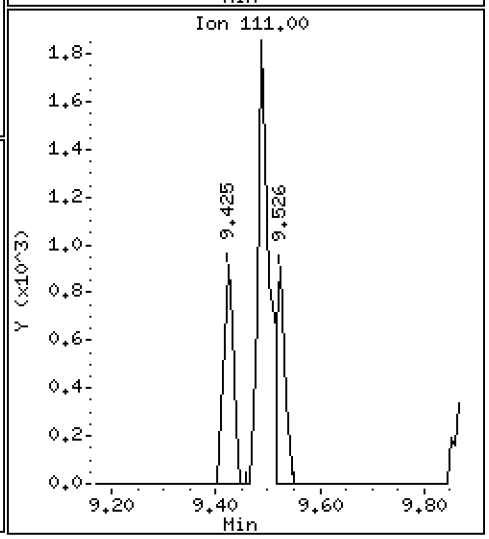












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

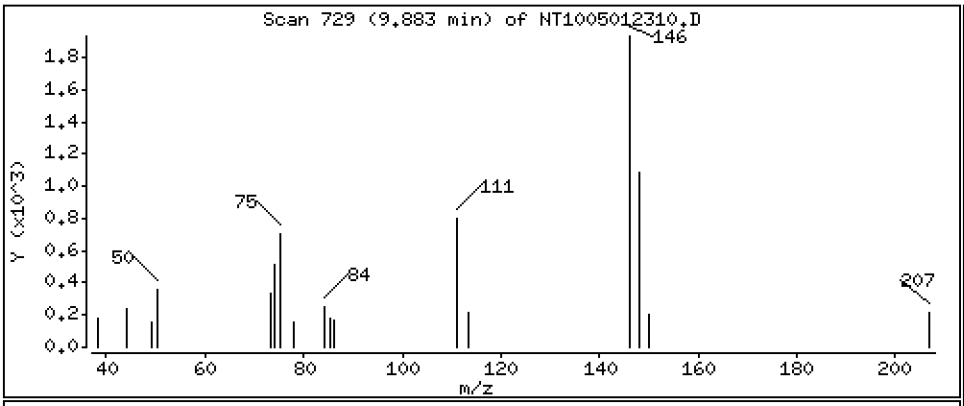
Sample Info: SEQ-SIM1

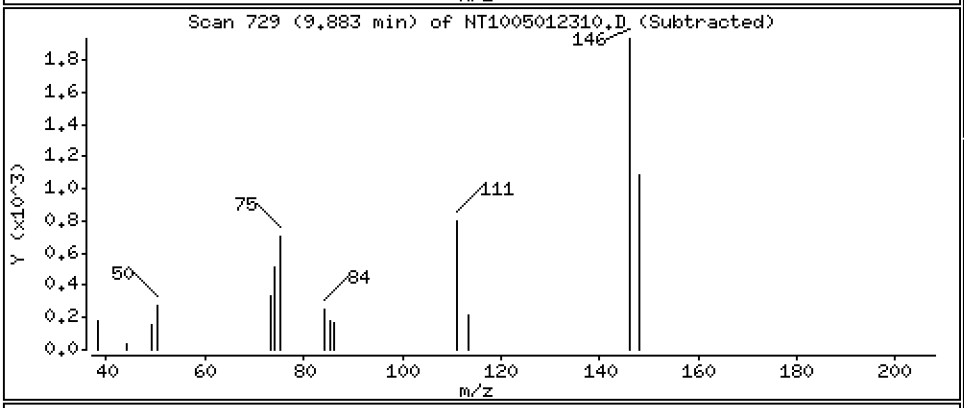
Operator: VTS

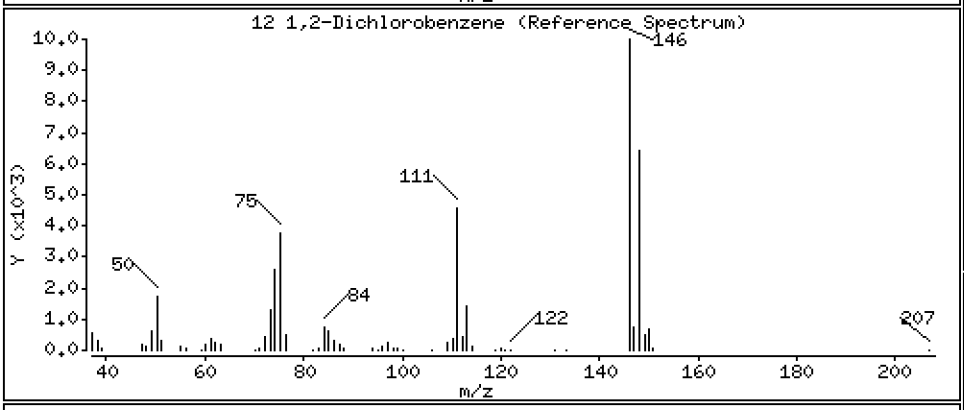
Column phase: ZB-5msi

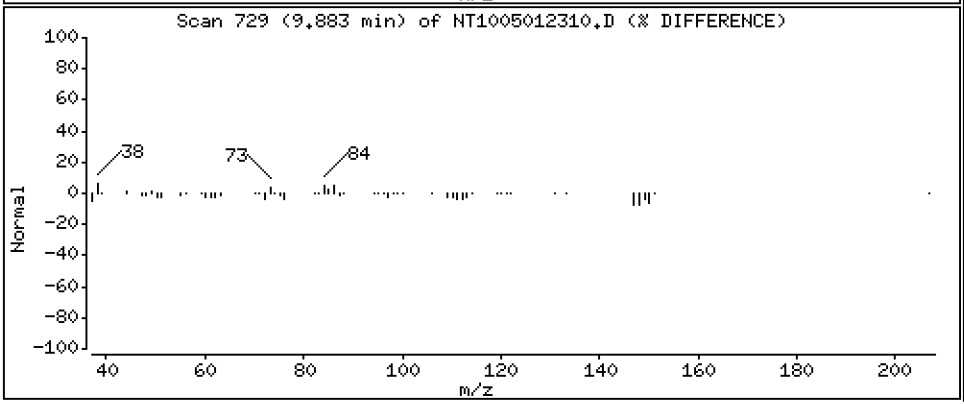
Column diameter: 0.25

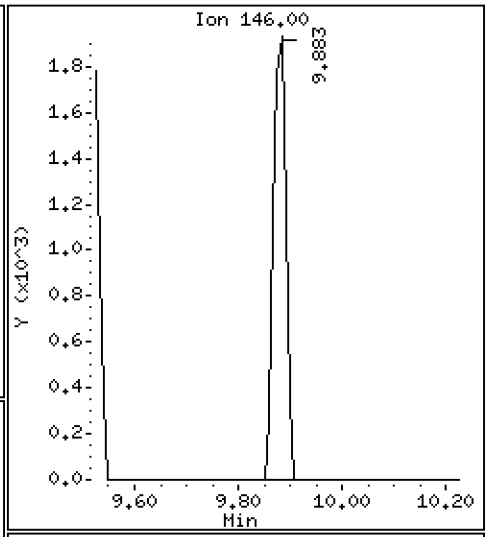
12 1,2-Dichlorobenzene

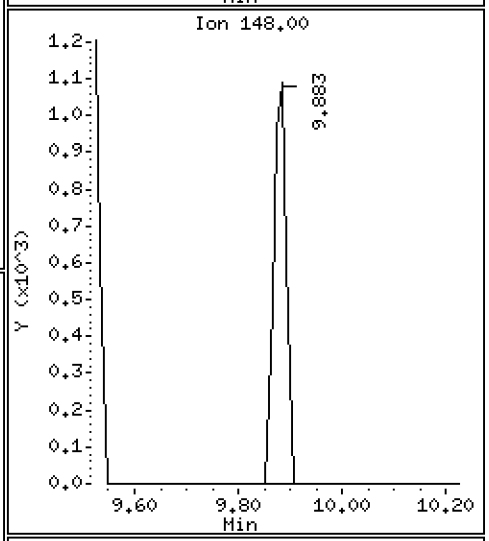


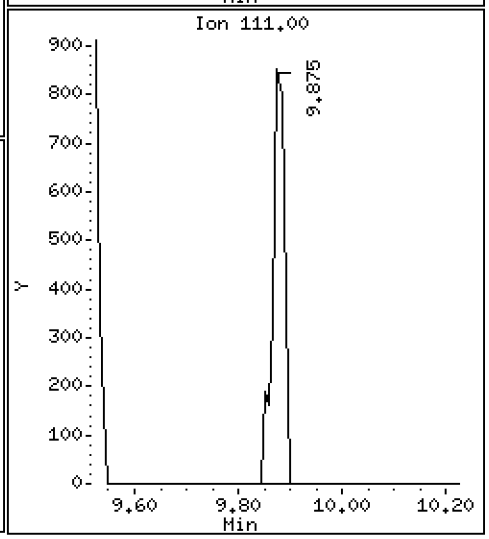












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

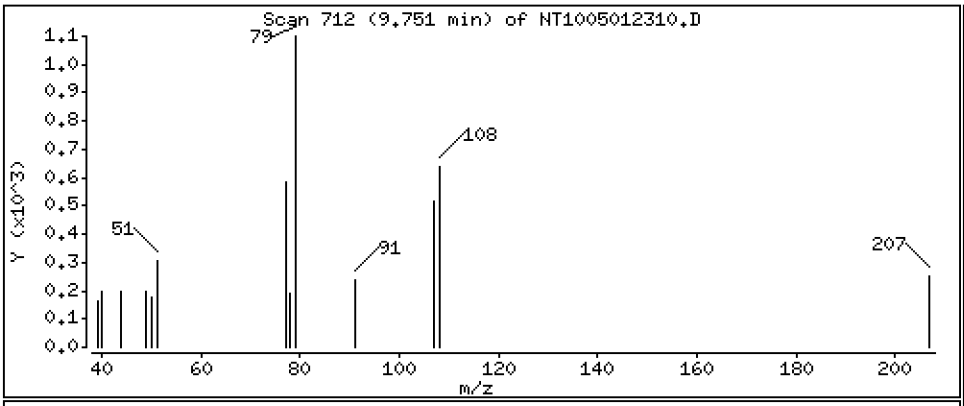
Sample Info: SEQ-SIM1

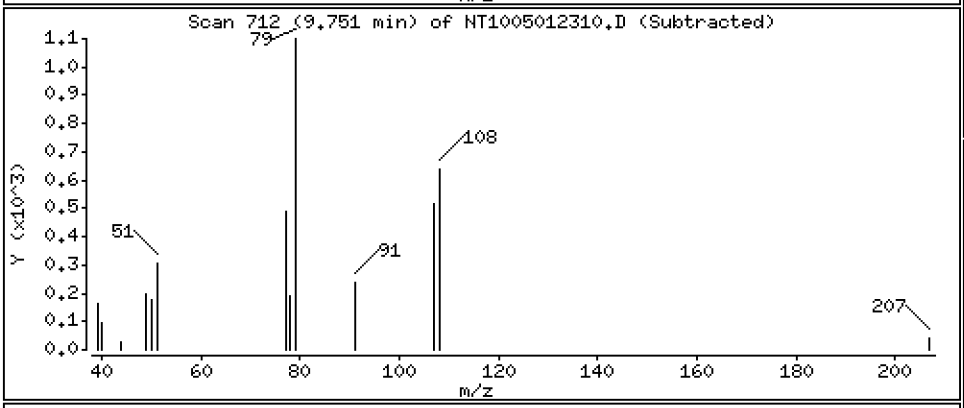
Operator: VTS

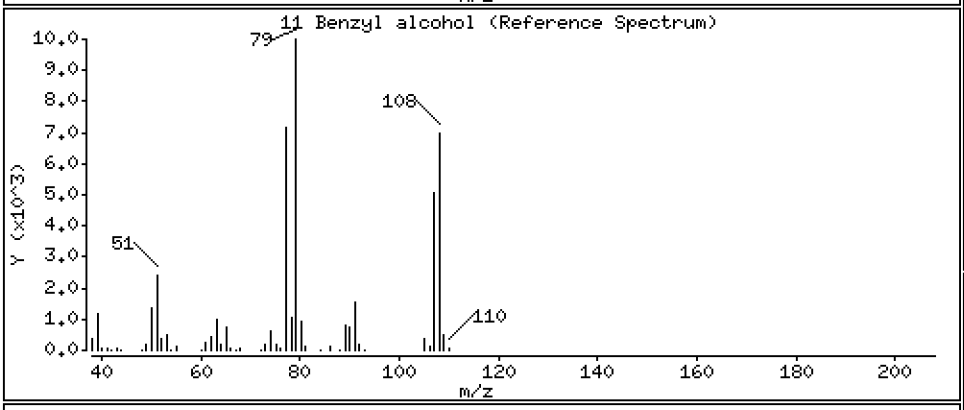
Column phase: ZB-5msi

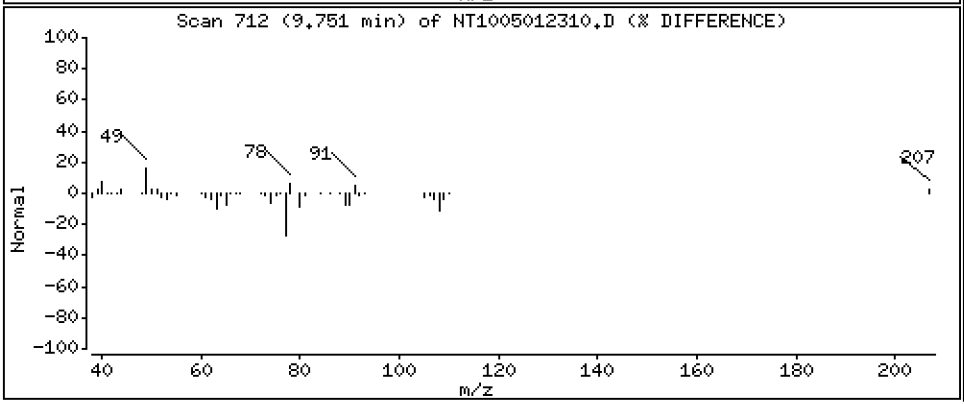
Column diameter: 0.25

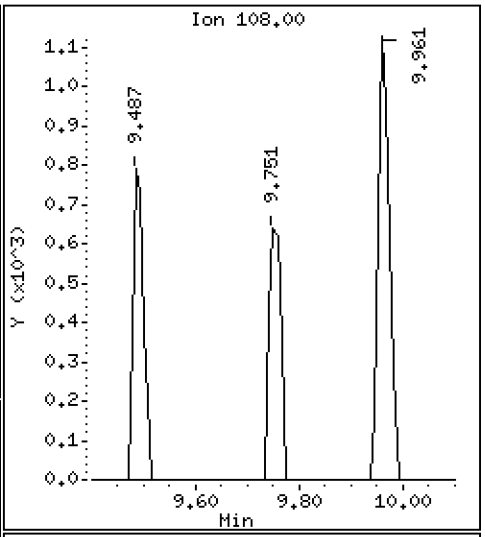
11 Benzyl alcohol

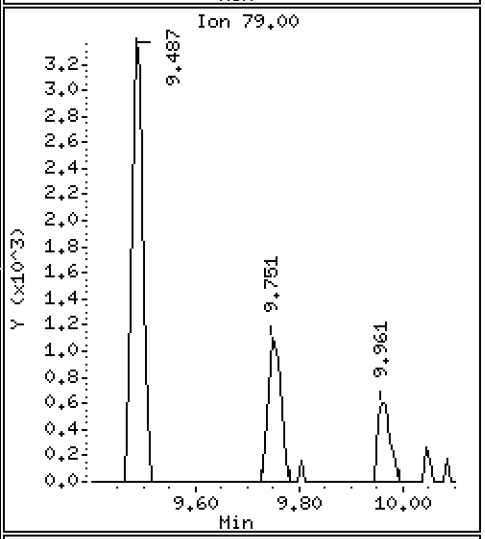


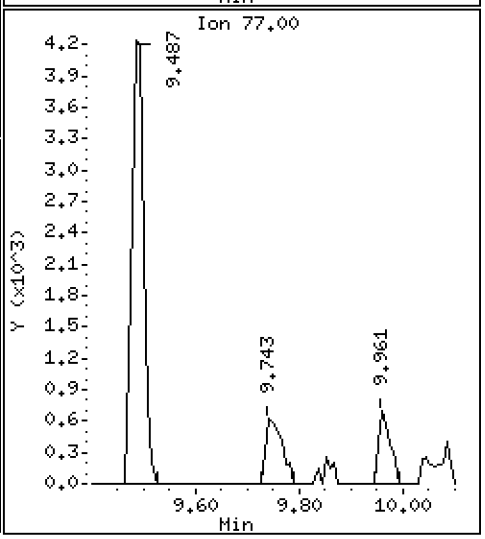












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

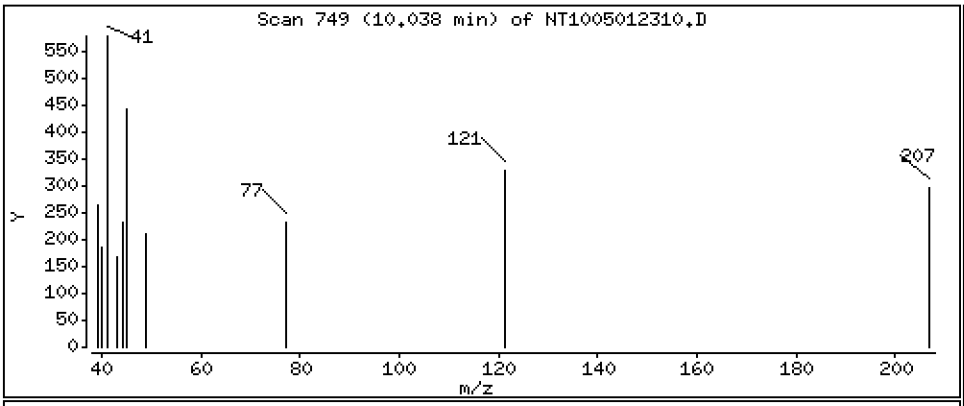
Sample Info: SEQ-SIM1

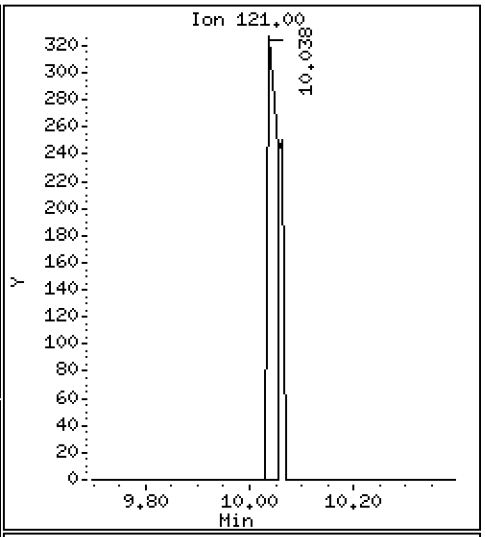
Operator: VTS

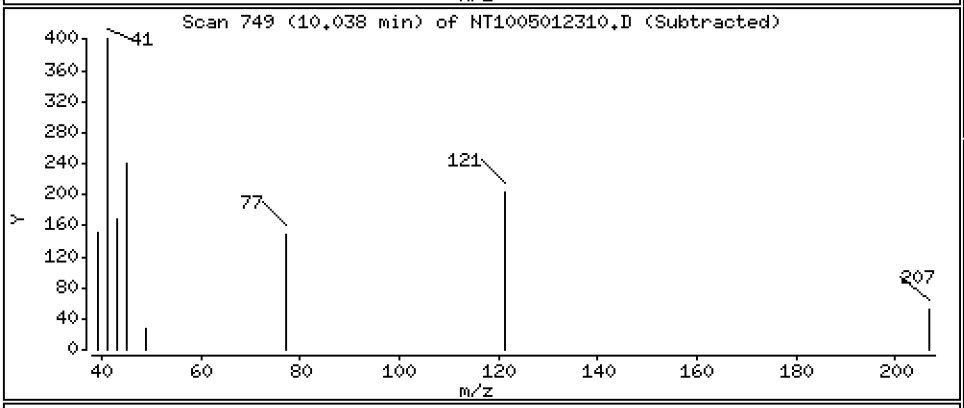
Column phase: ZB-5msi

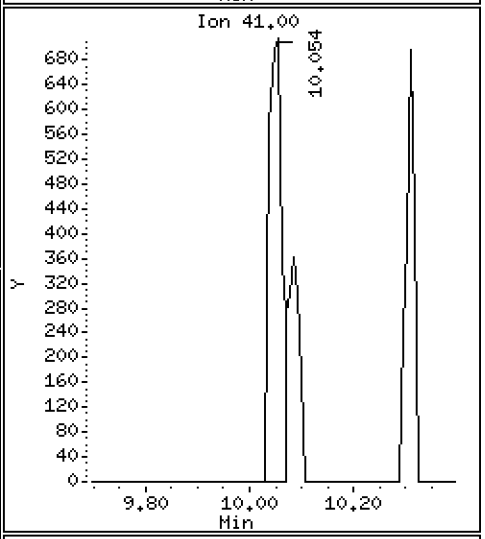
Column diameter: 0.25

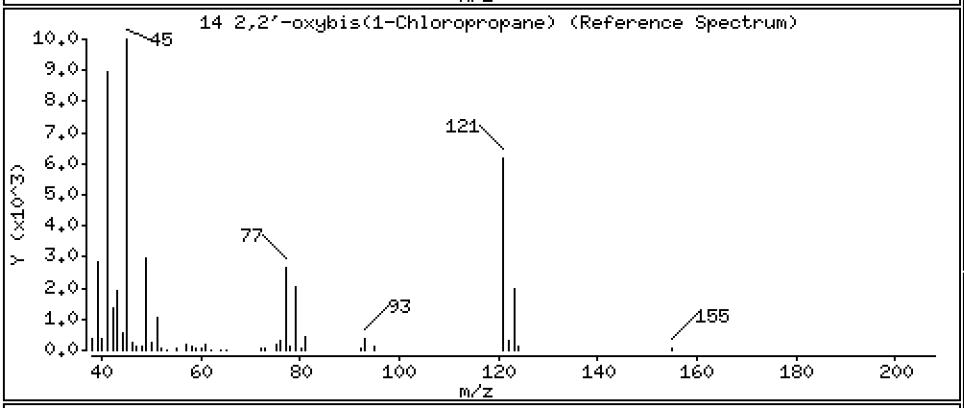
14 2,2'-oxybis(1-Chloropropane)

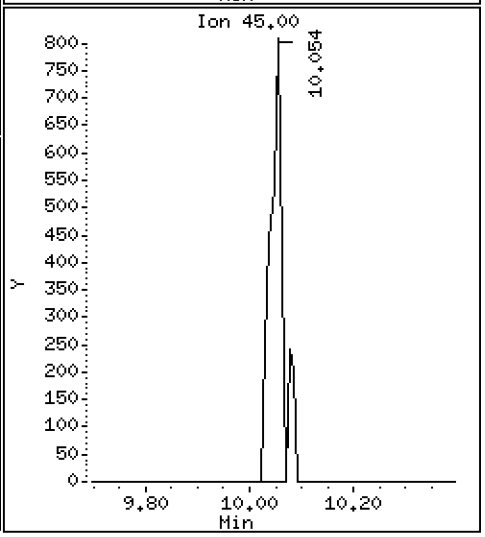


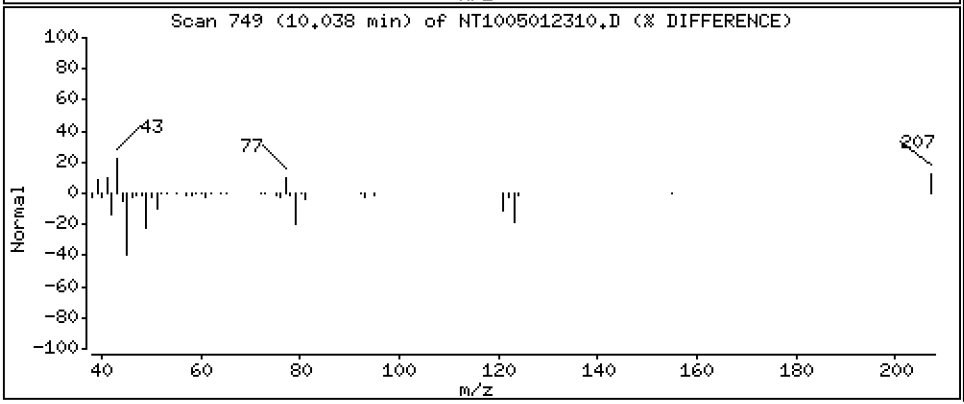












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

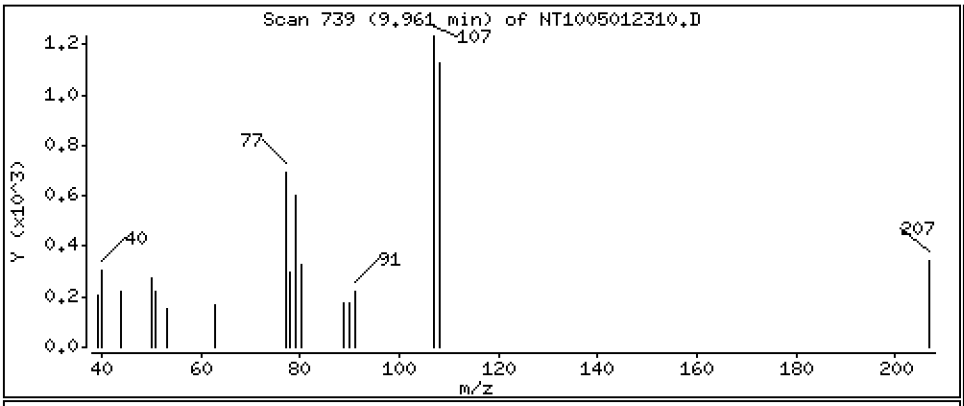
Sample Info: SEQ-SIM1

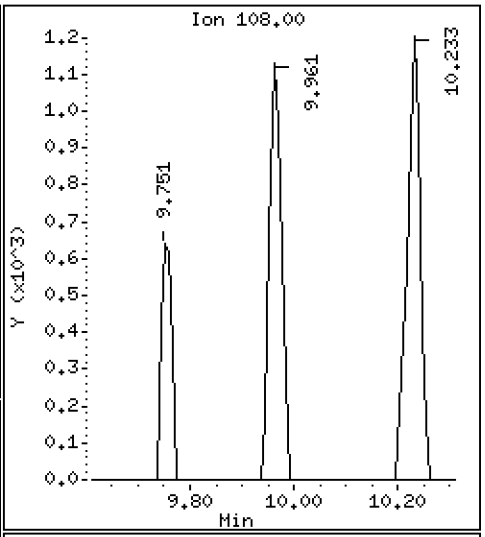
Operator: VTS

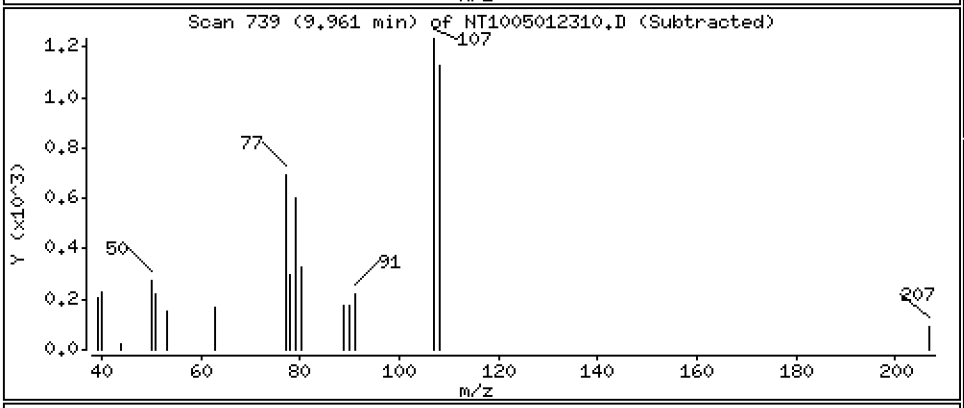
Column phase: ZB-5msi

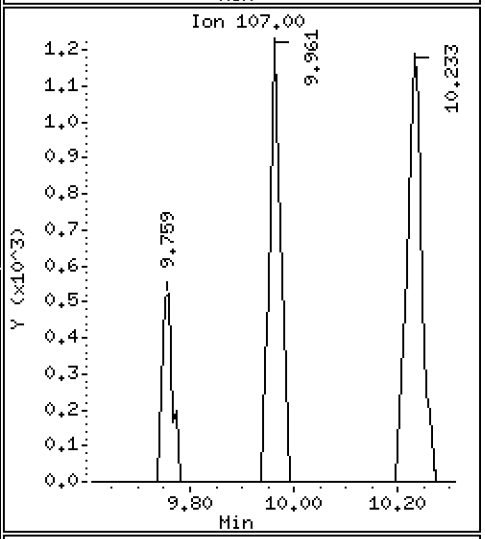
Column diameter: 0.25

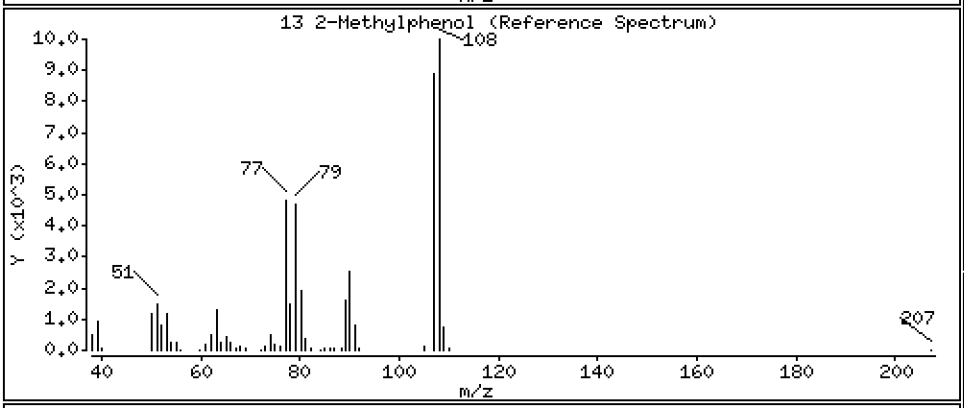
13 2-Methylphenol

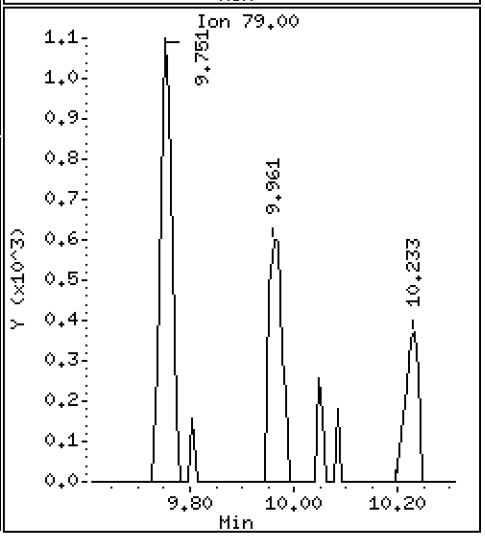


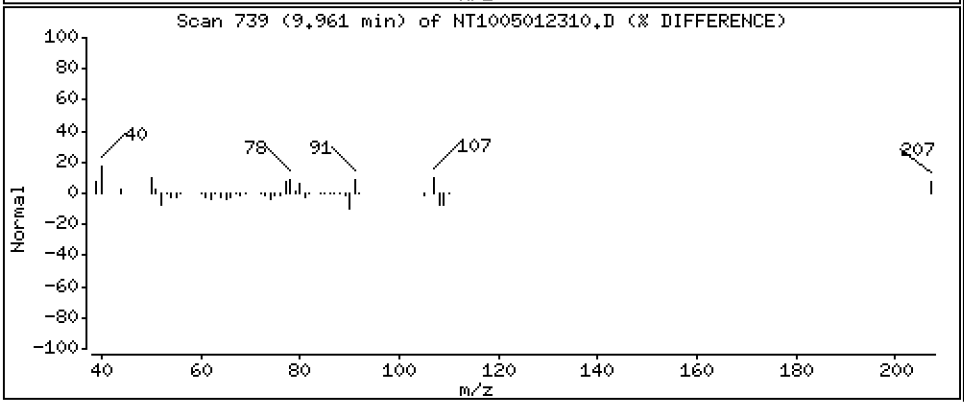












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

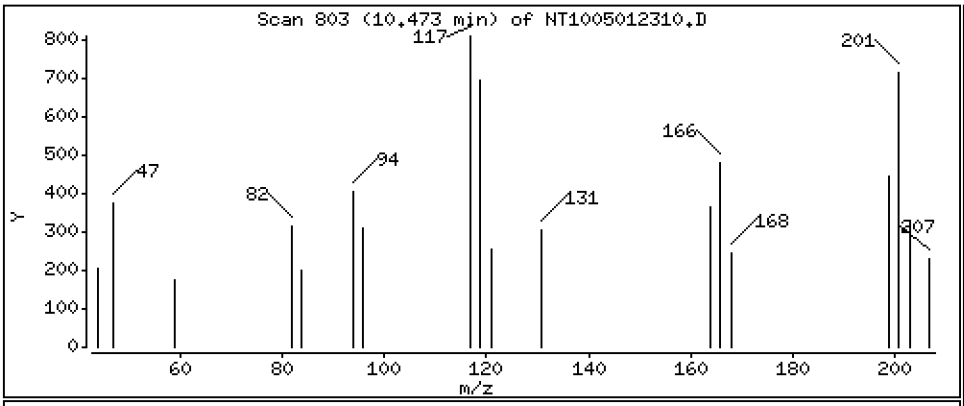
Sample Info: SEQ-SIM1

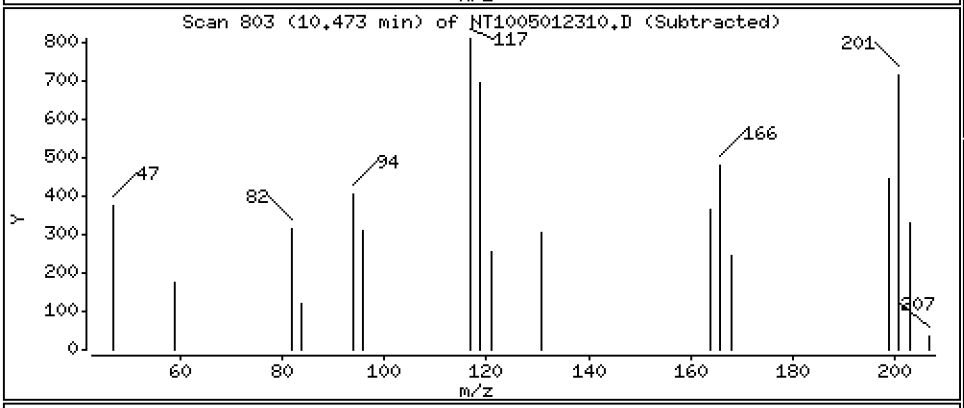
Operator: VTS

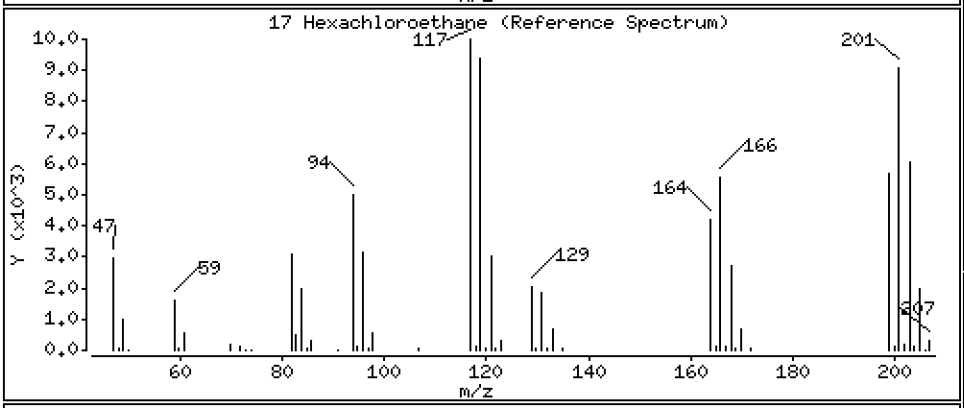
Column phase: ZB-5msi

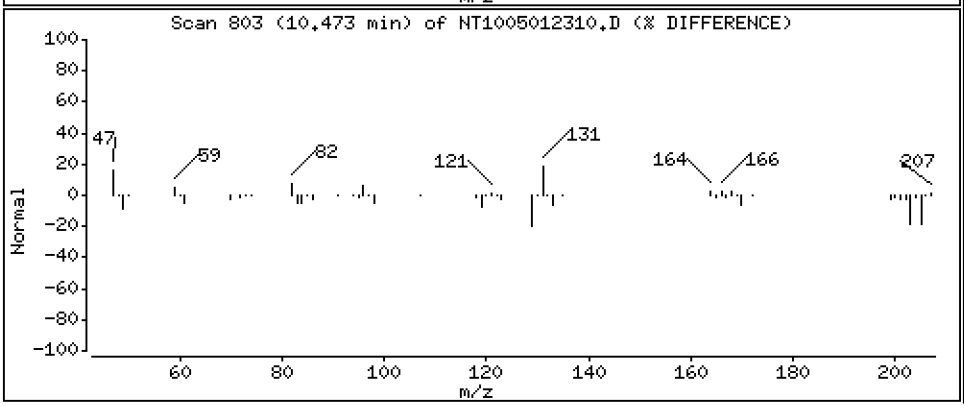
Column diameter: 0.25

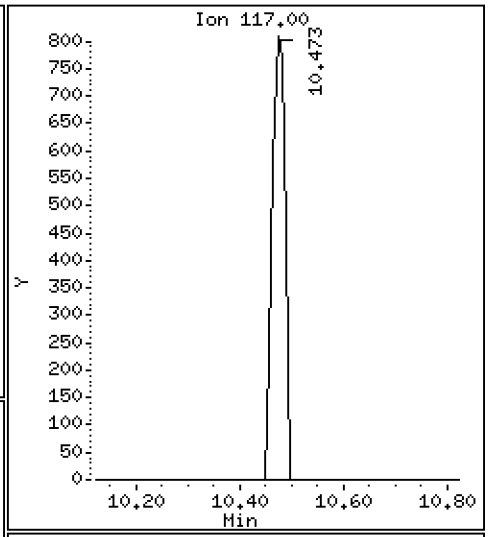
17 Hexachloroethane

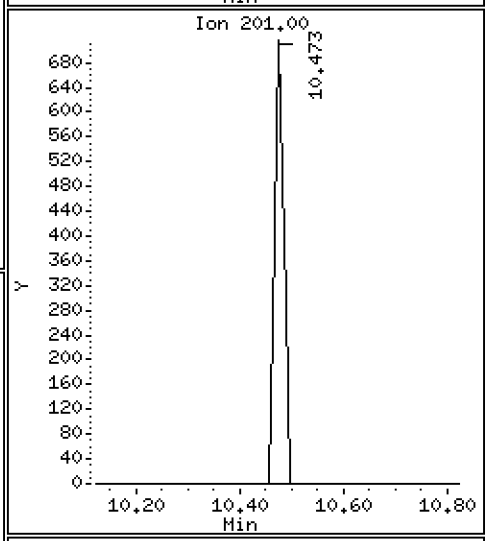


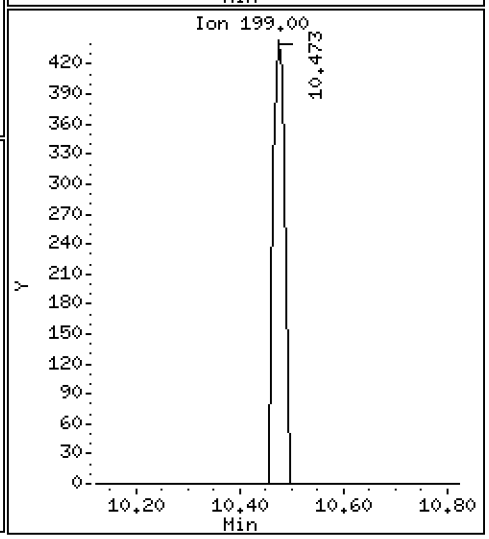












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

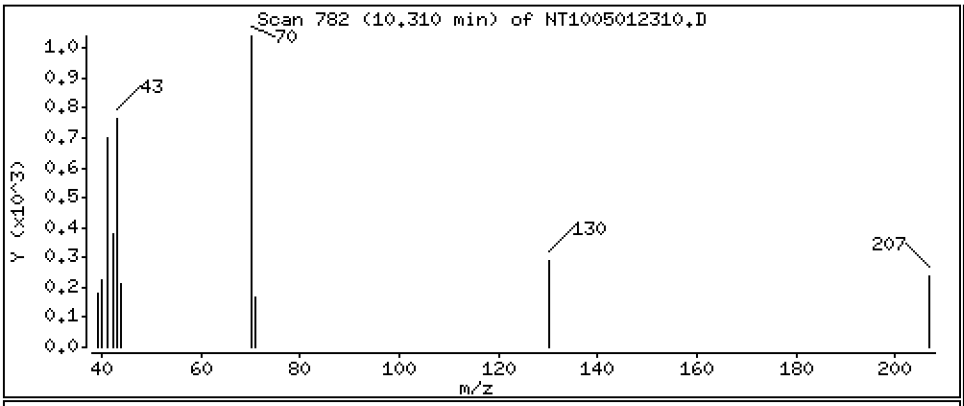
Sample Info: SEQ-SIM1

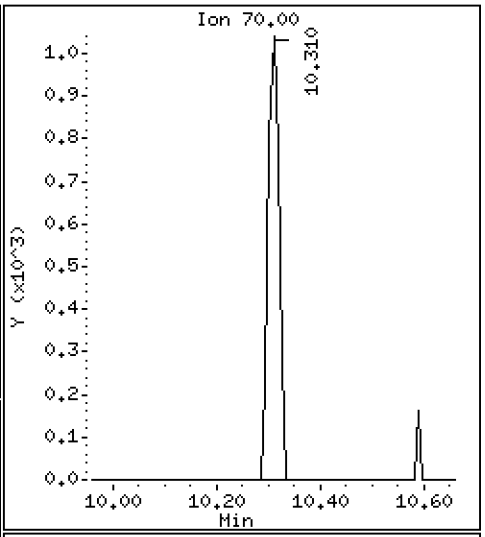
Operator: VTS

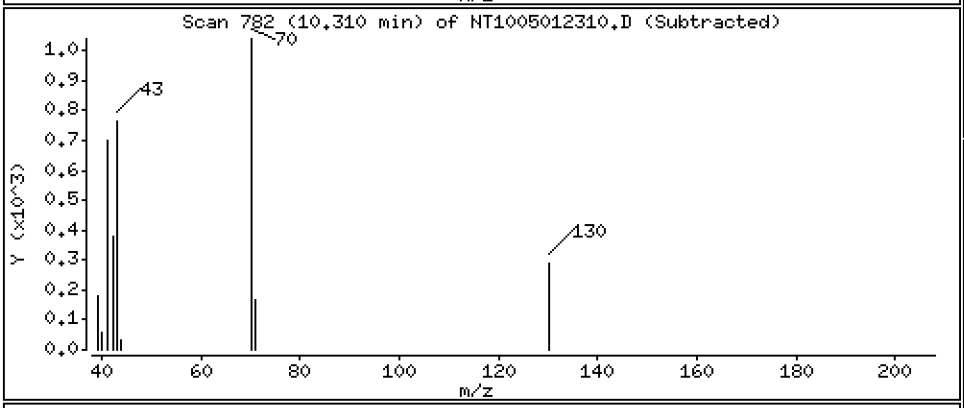
Column phase: ZB-5msi

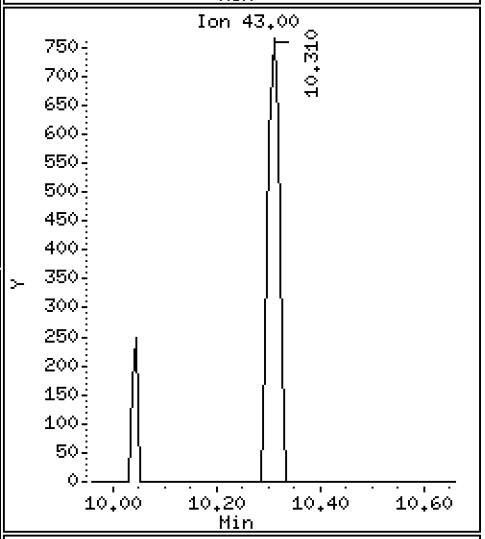
Column diameter: 0.25

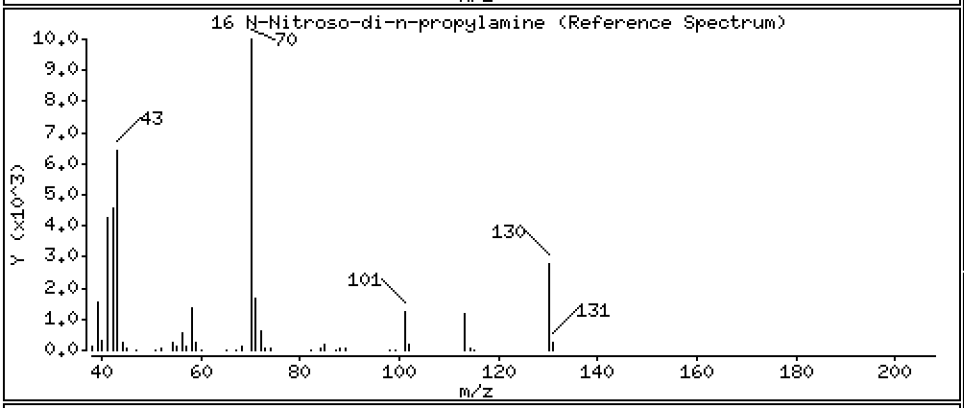
16 N-Nitroso-di-n-propylamine

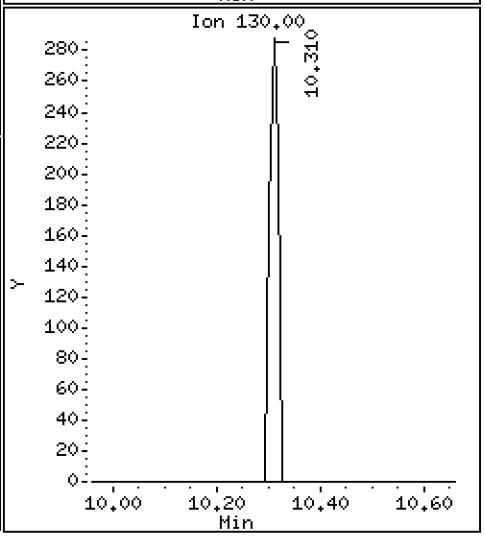


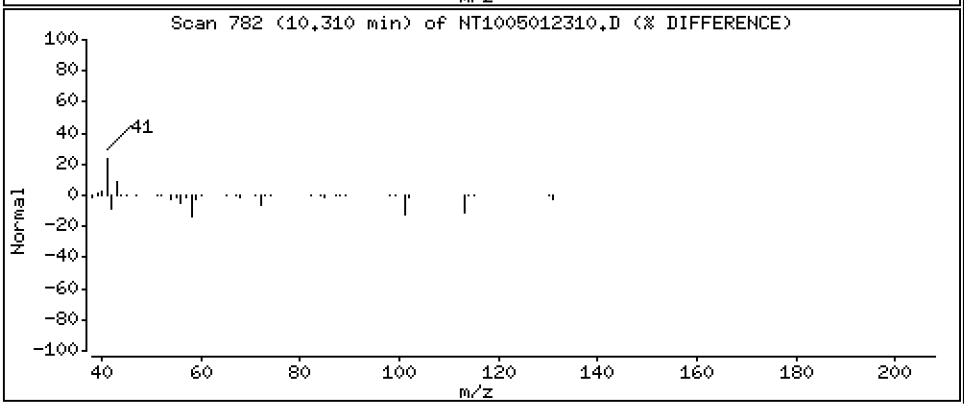












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

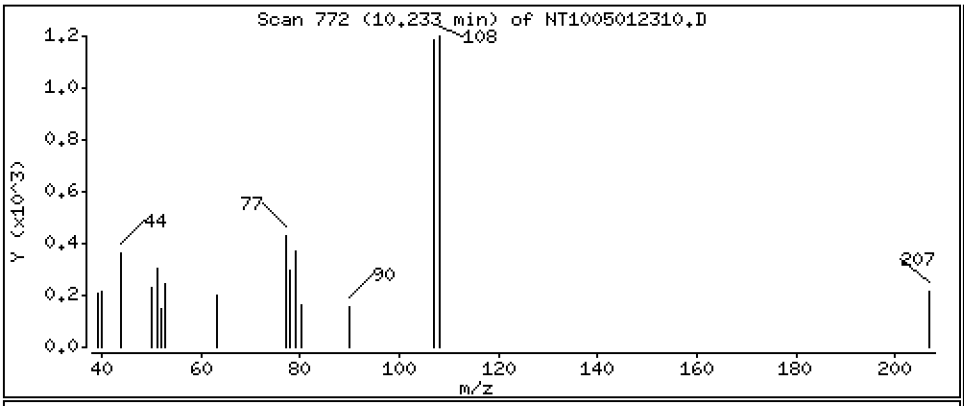
Sample Info: SEQ-SIM1

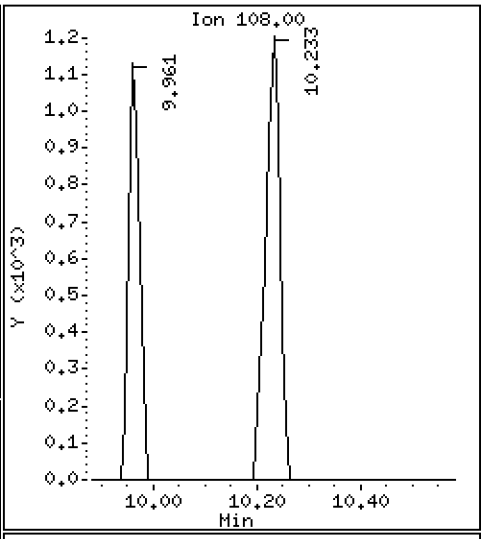
Operator: VTS

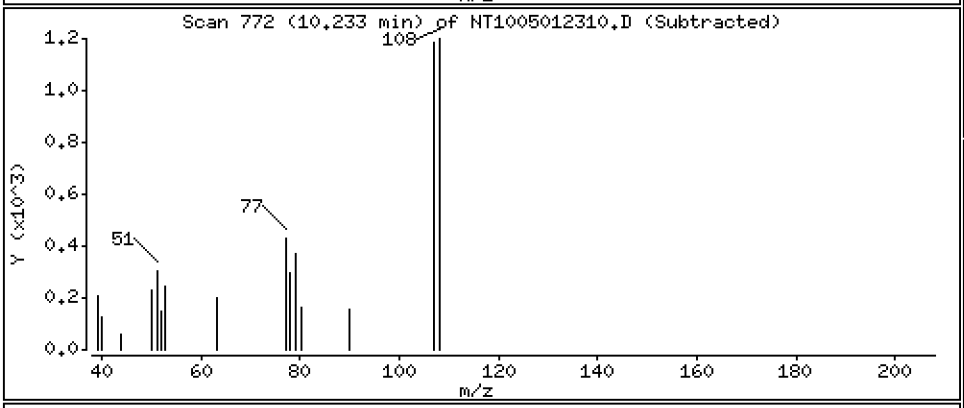
Column phase: ZB-5msi

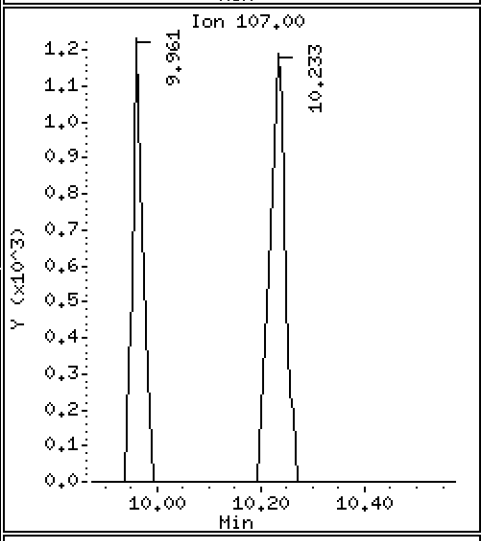
Column diameter: 0.25

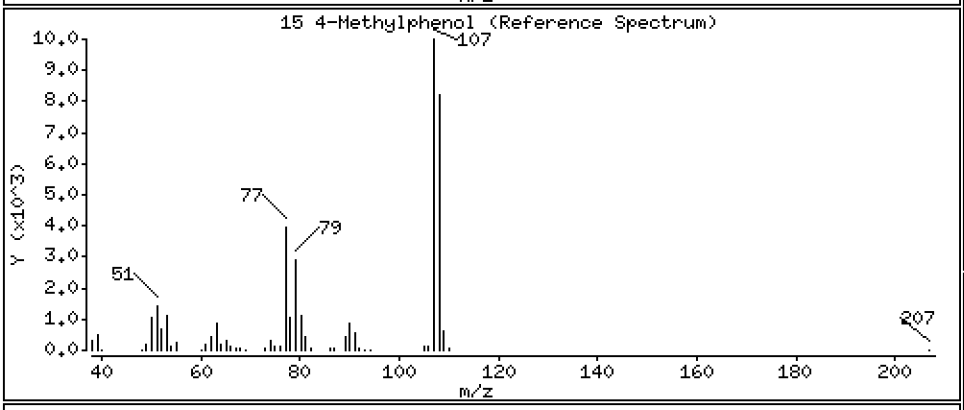
15 4-Methylphenol

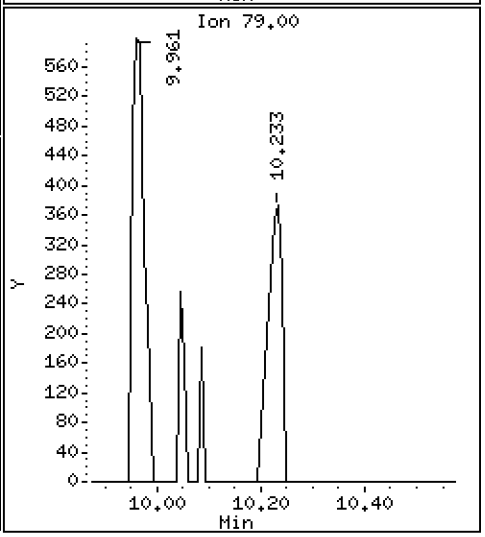


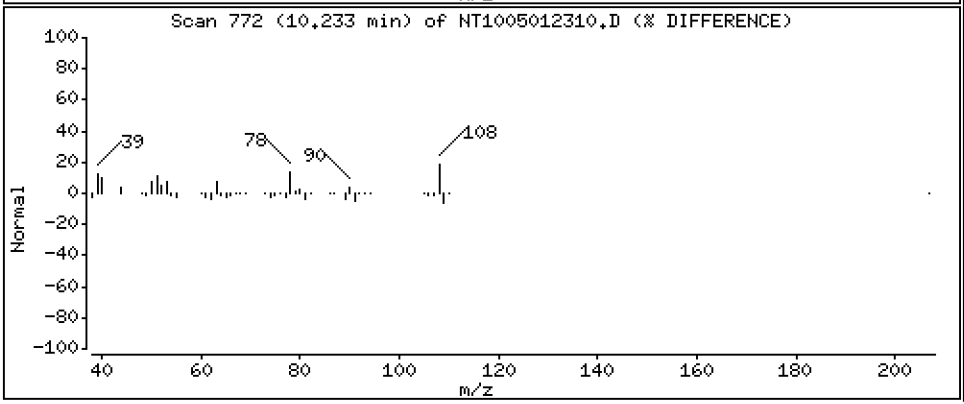












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

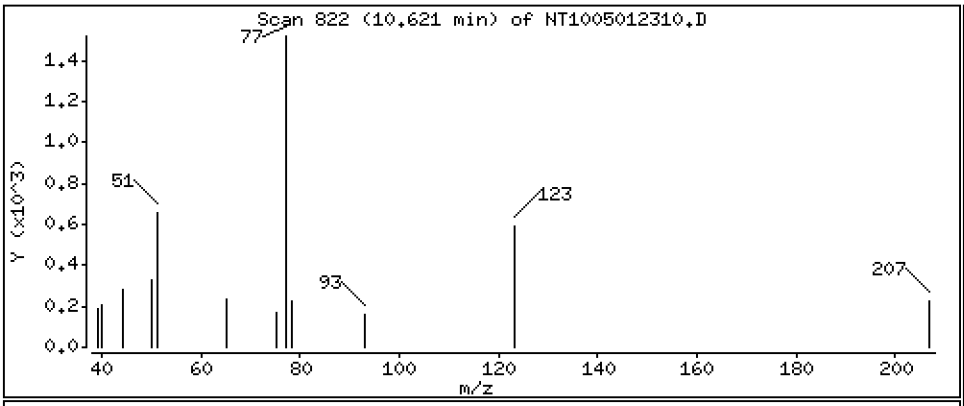
Operator: VTS

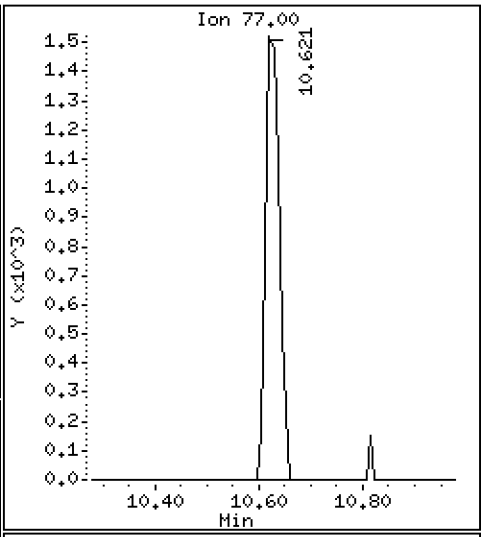
Column phase: ZB-5msi

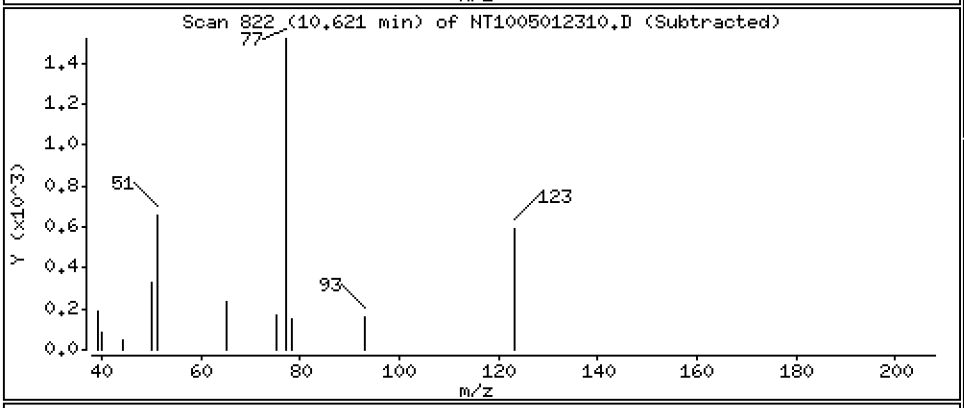
Column diameter: 0.25

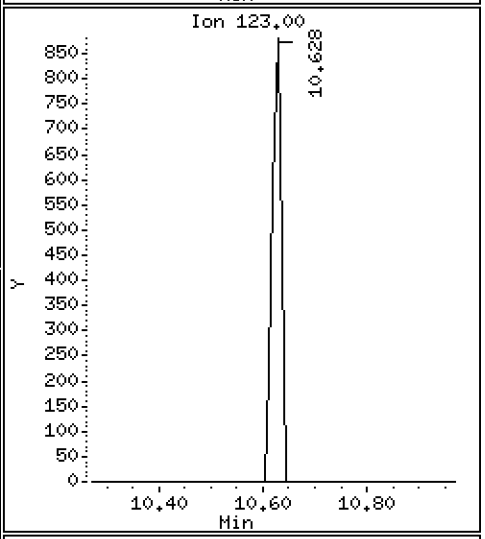
19 Nitrobenzene

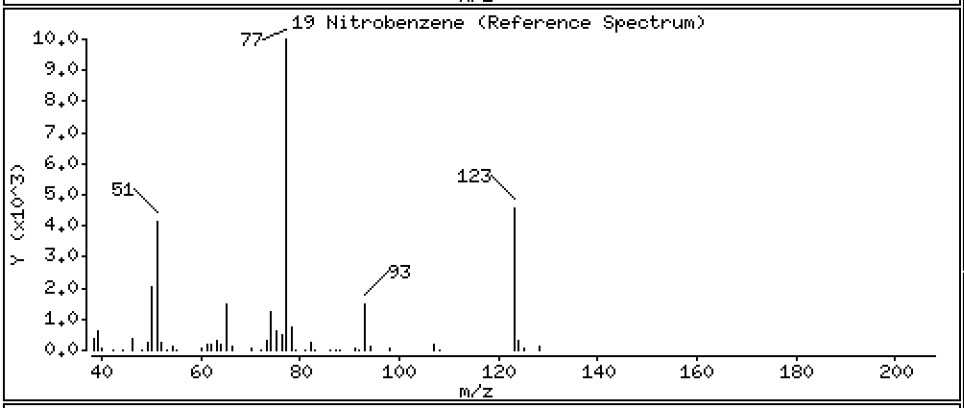
Concentration: 0.04426 ug/mL

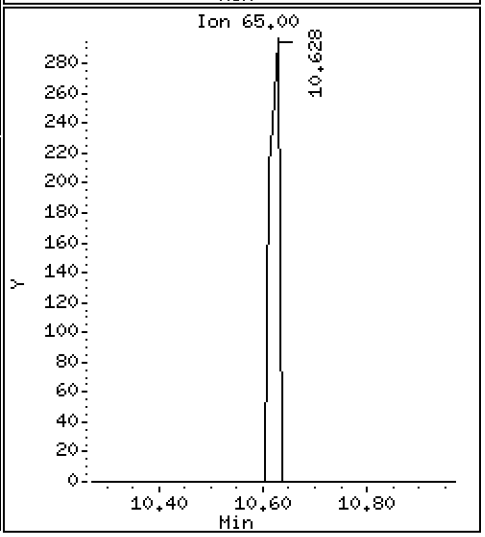


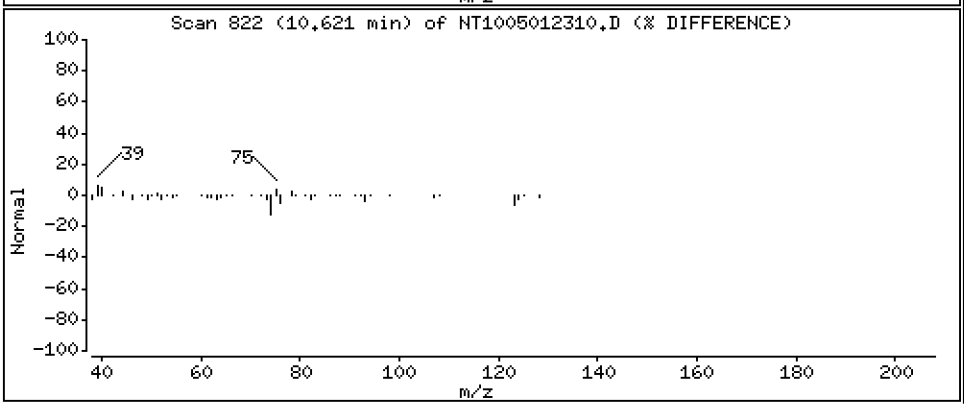












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

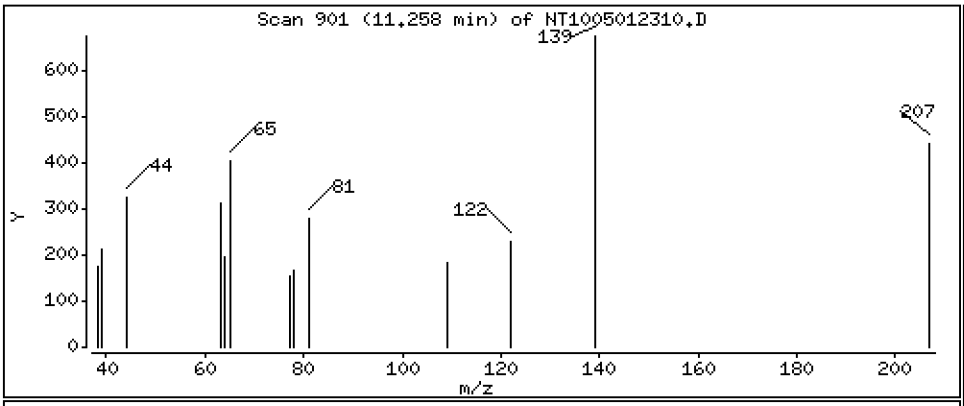
Operator: VTS

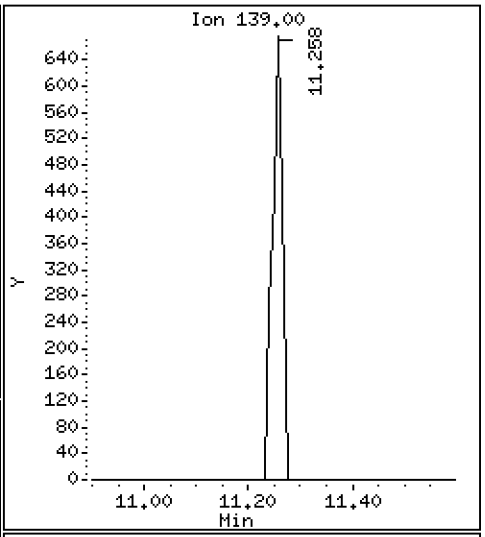
Column phase: ZB-5msi

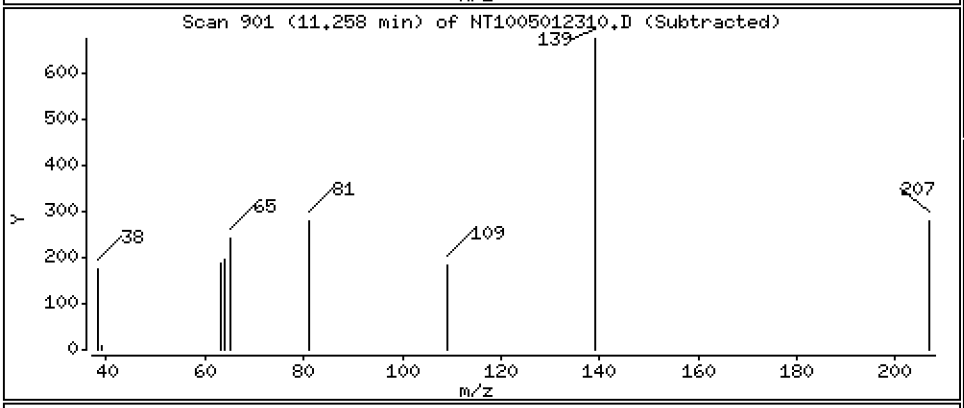
Column diameter: 0.25

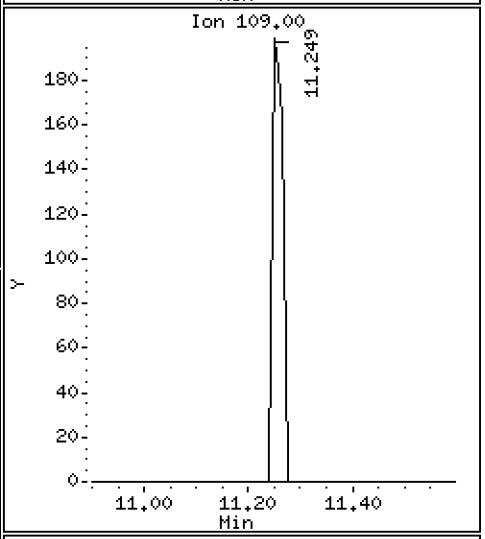
21 2-Nitrophenol

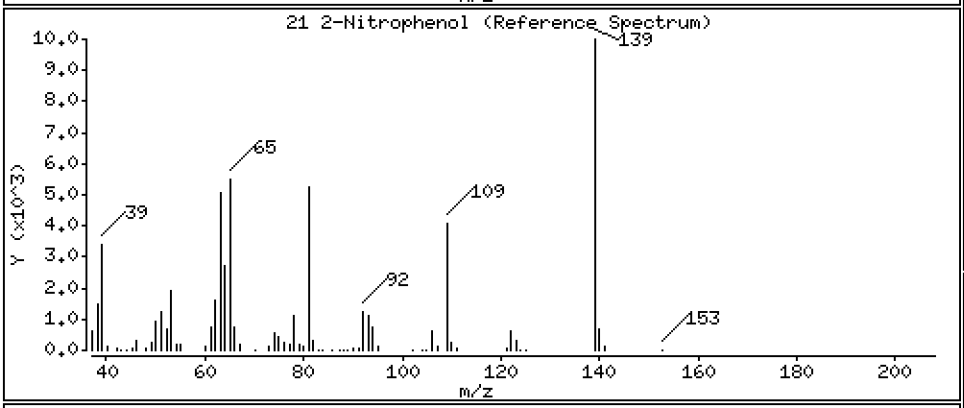
Concentration: 0.02849 ug/mL

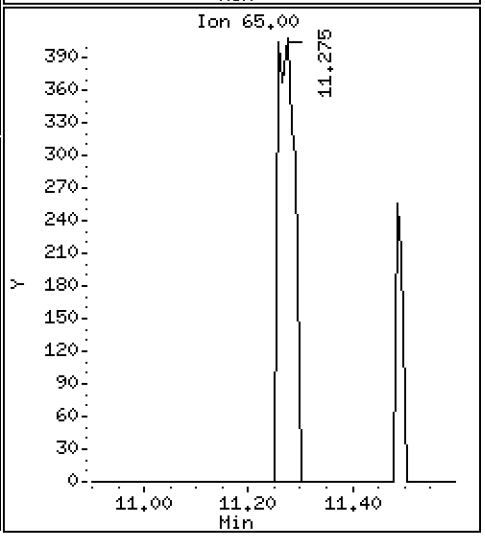


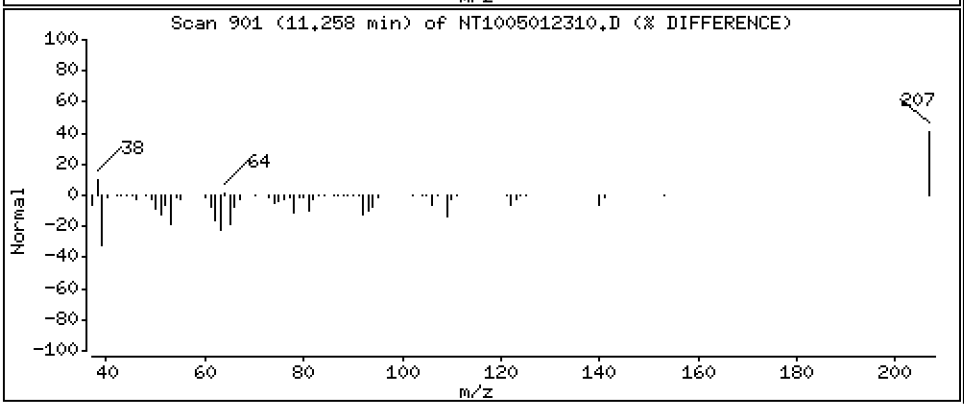












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

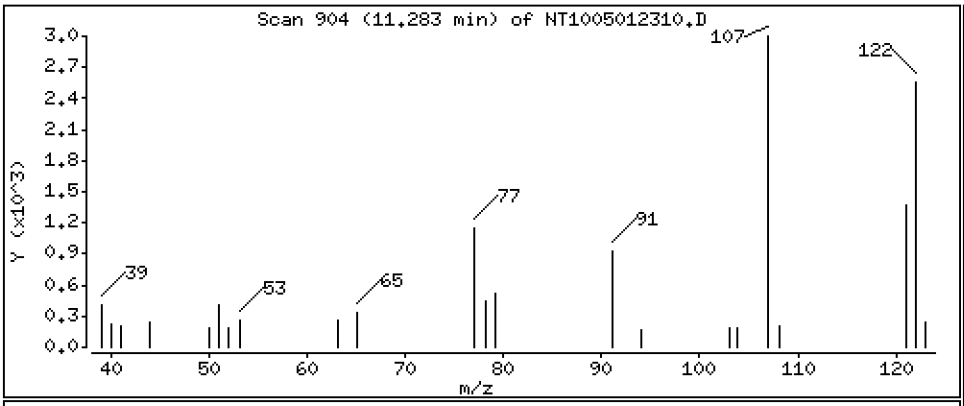
Operator: VTS

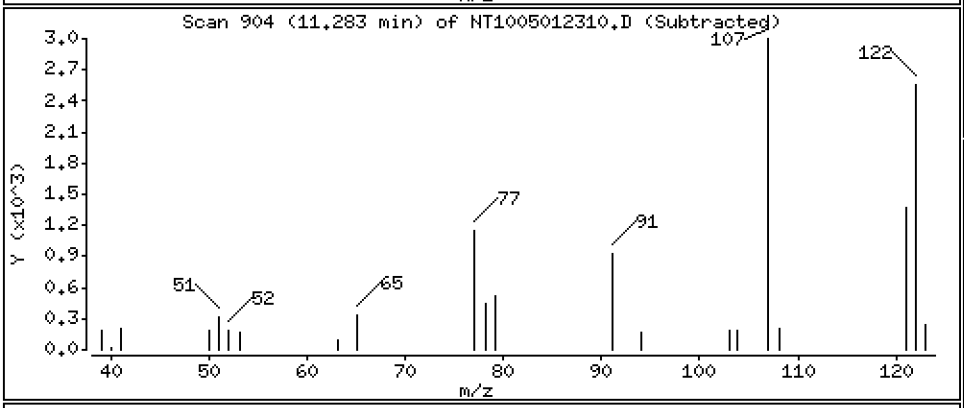
Column phase: ZB-5msi

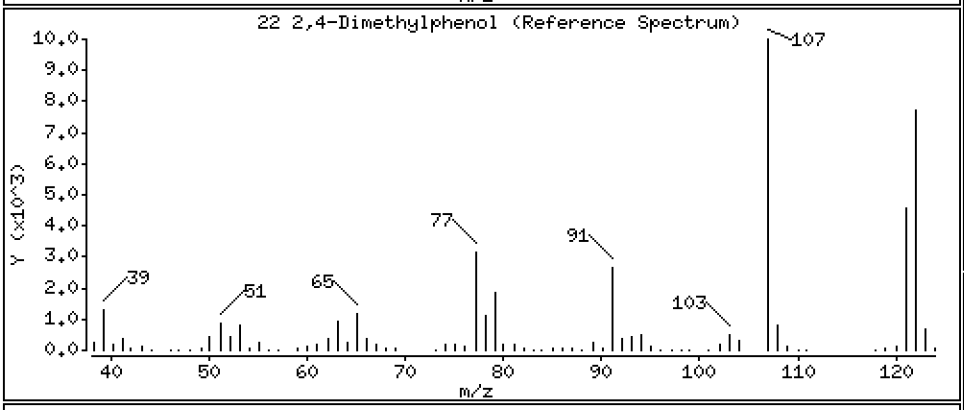
Column diameter: 0.25

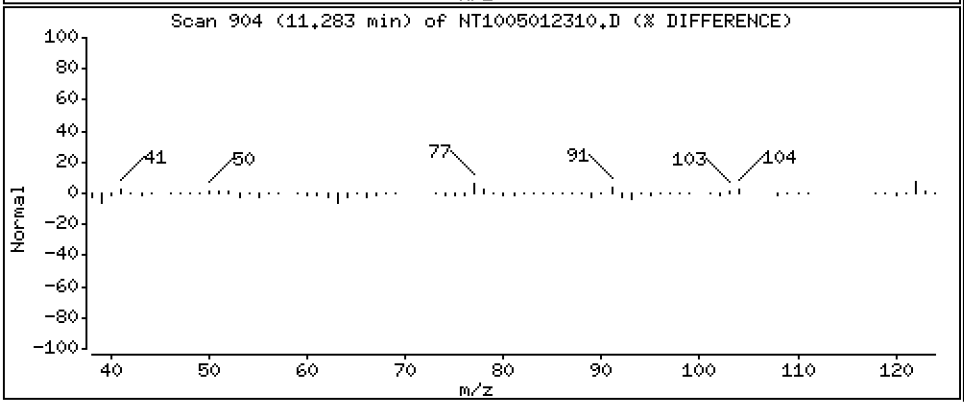
22 2,4-Dimethylphenol

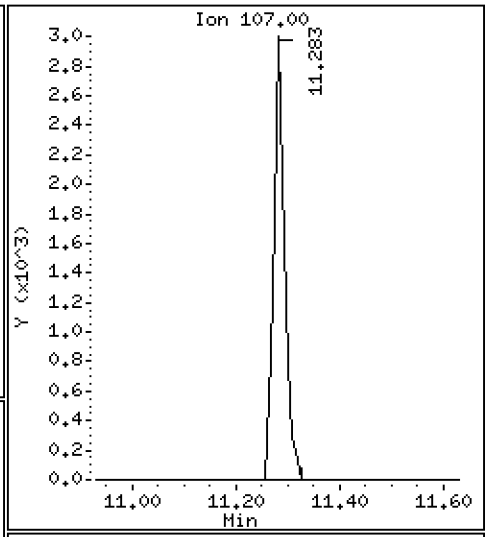
Concentration: 0.07650 ug/mL

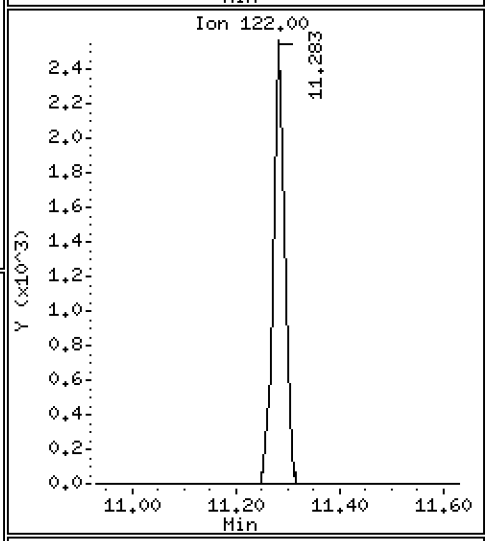


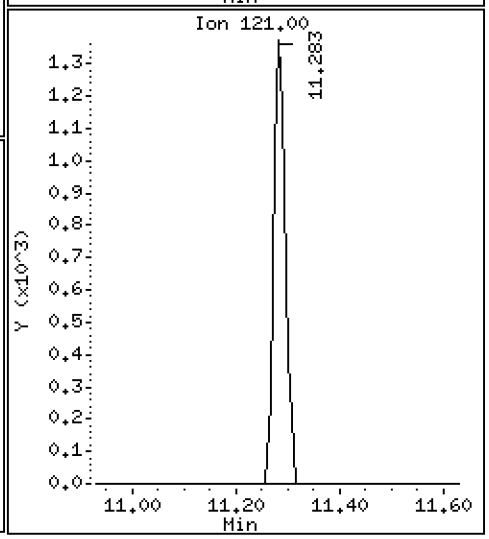












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

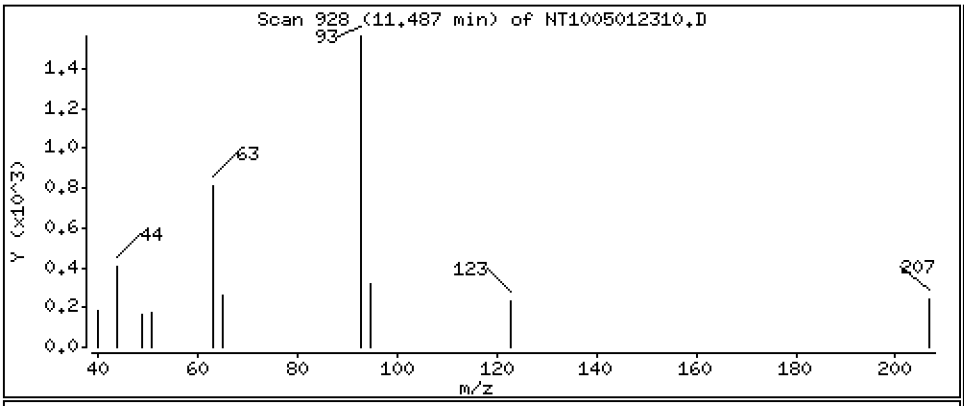
Operator: VTS

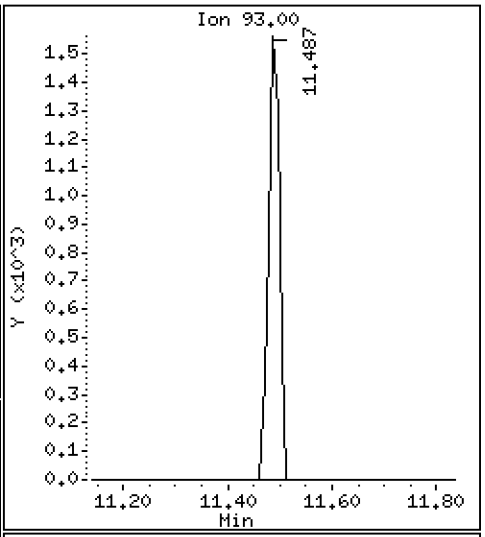
Column phase: ZB-5msi

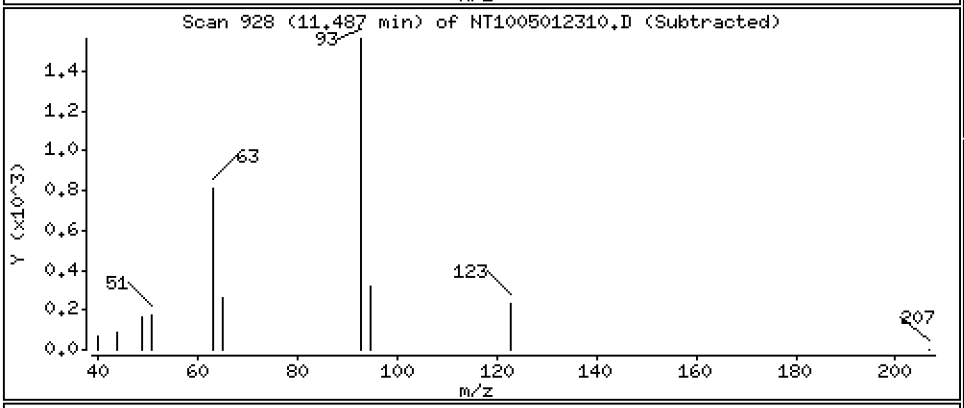
Column diameter: 0.25

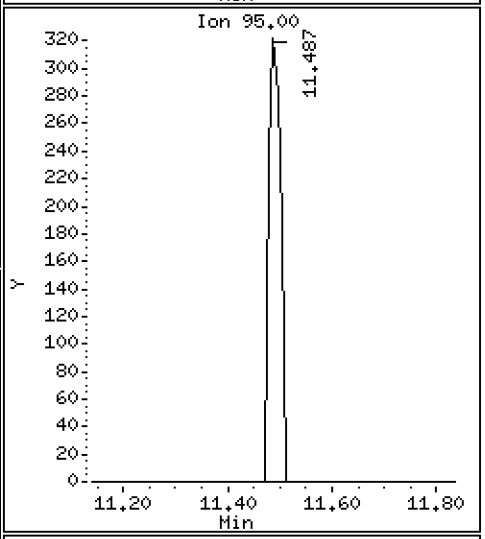
23 Bis(2-Chloroethoxy)methane

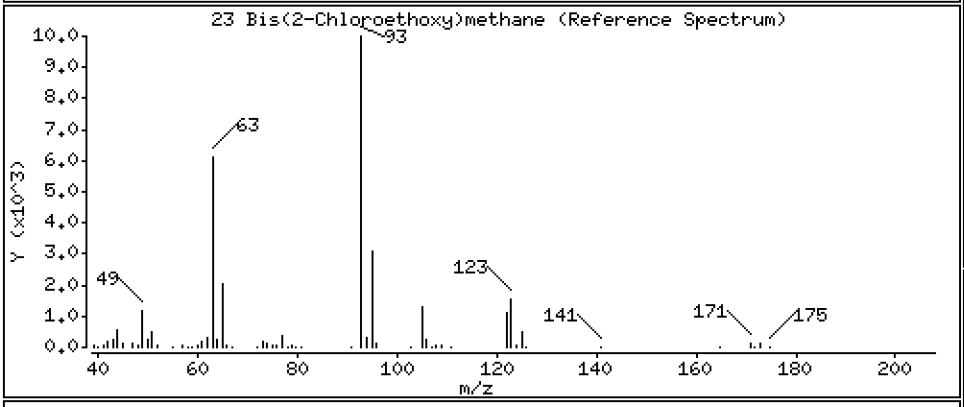
Concentration: 0.04951 ug/mL

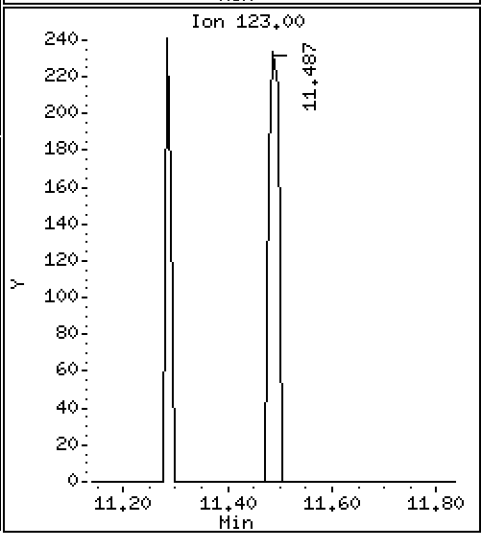


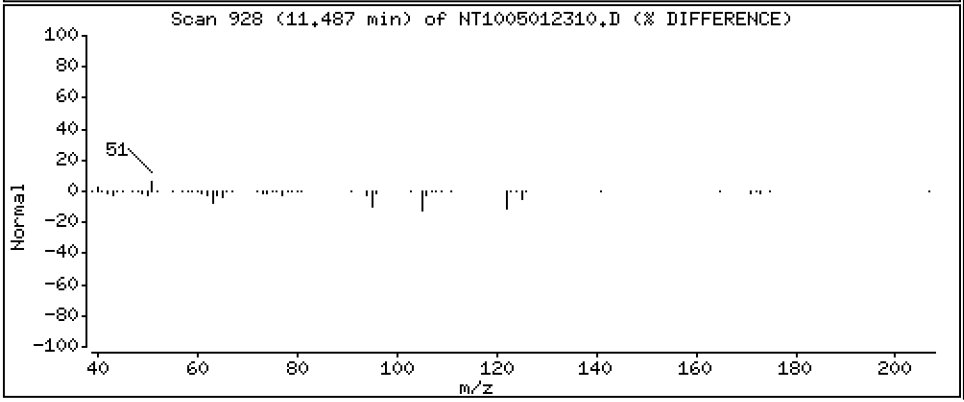












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

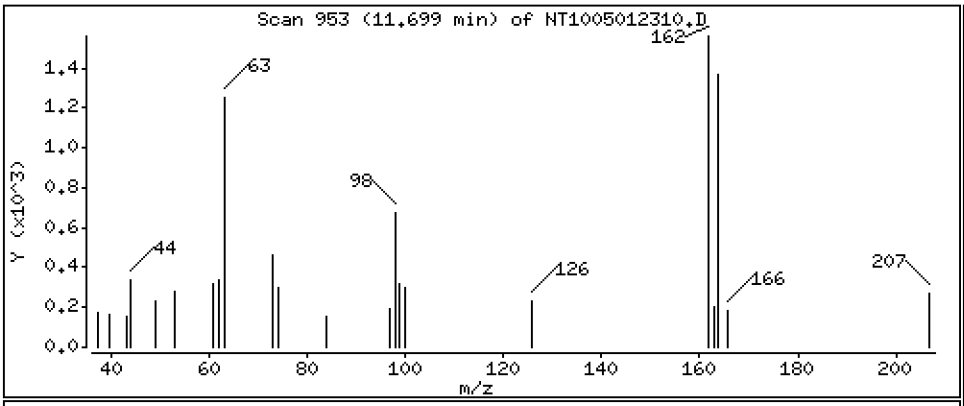
Operator: VTS

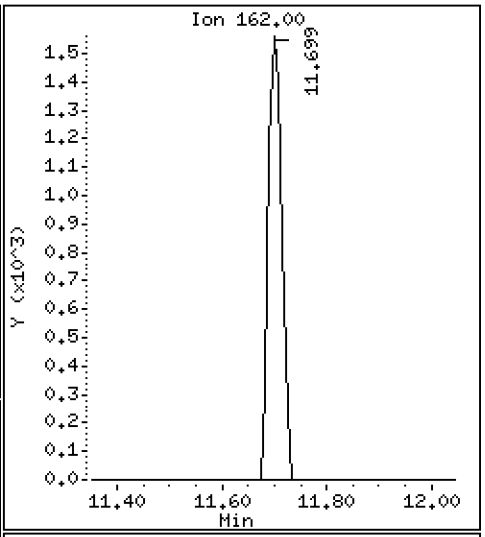
Column phase: ZB-5msi

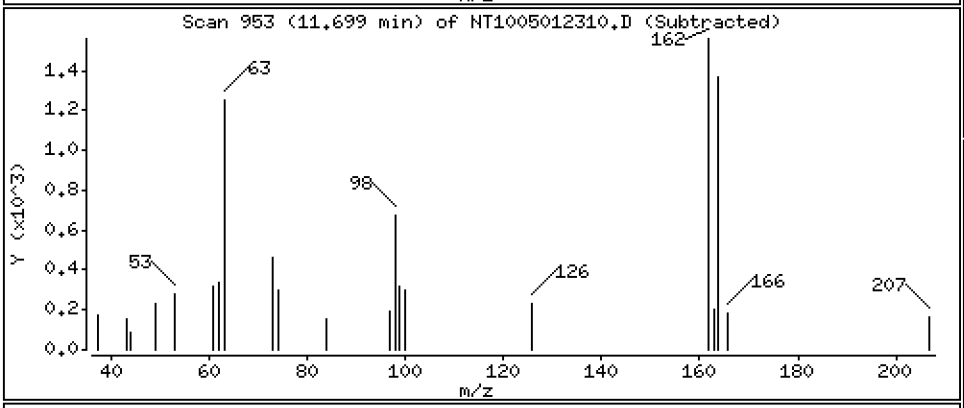
Column diameter: 0.25

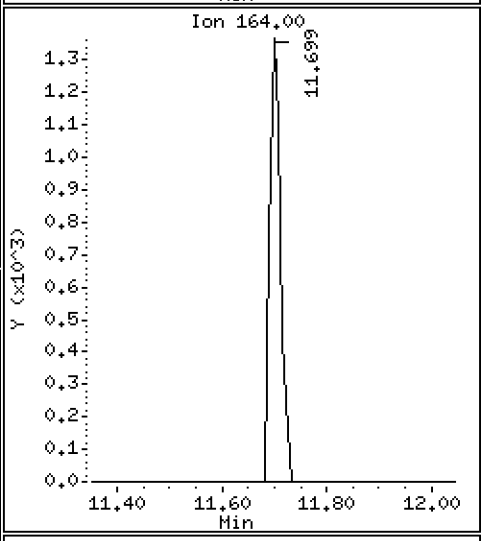
25 2,4-Dichlorophenol

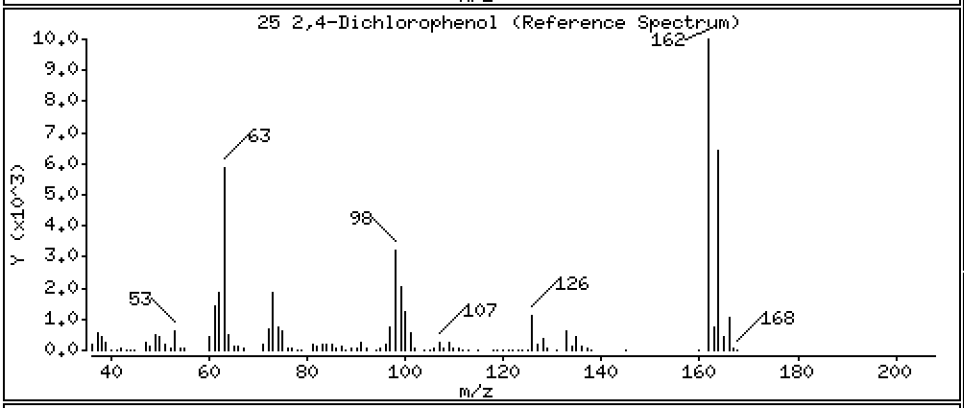
Concentration: 0.06069 ug/mL

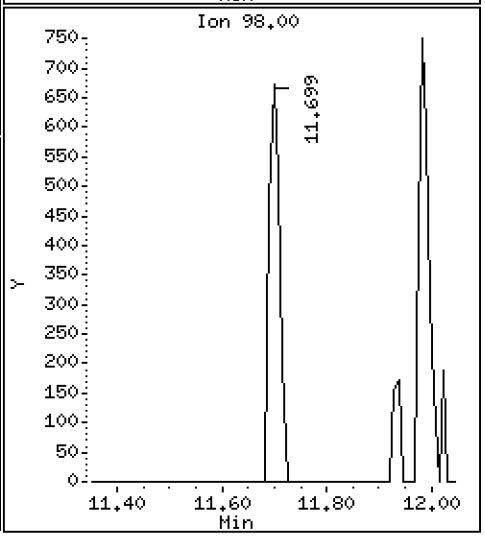


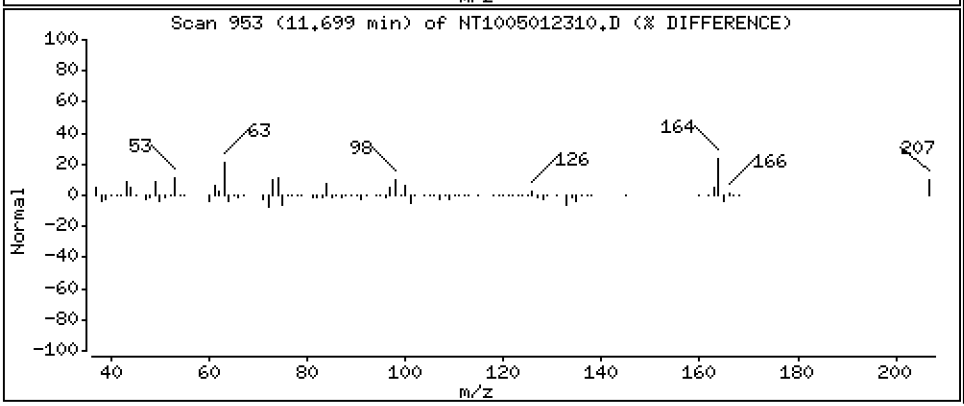












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

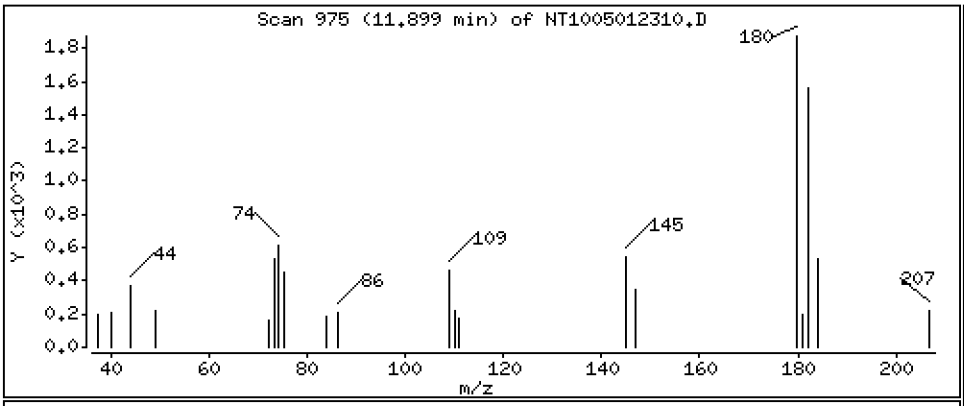
Operator: VTS

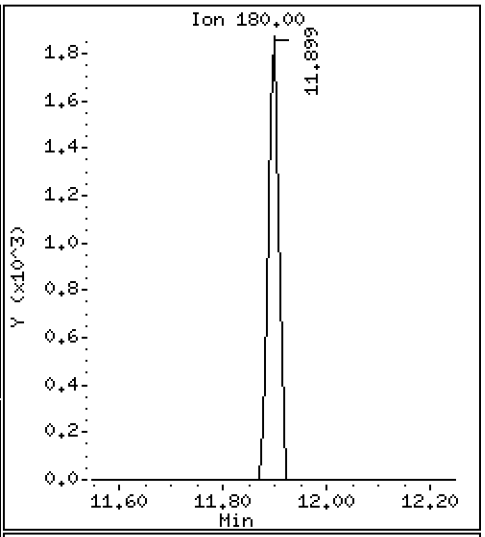
Column phase: ZB-5msi

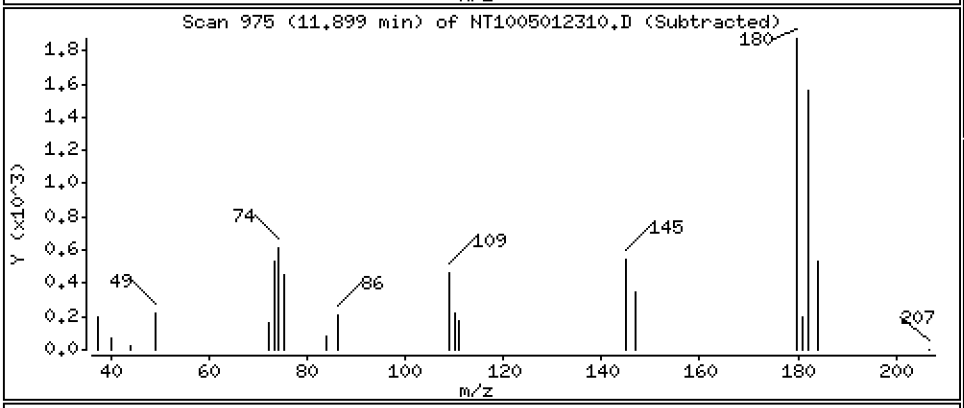
Column diameter: 0.25

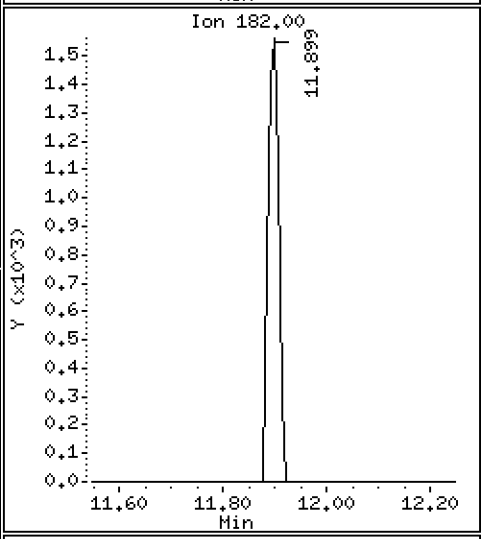
26 1,2,4-Trichlorobenzene

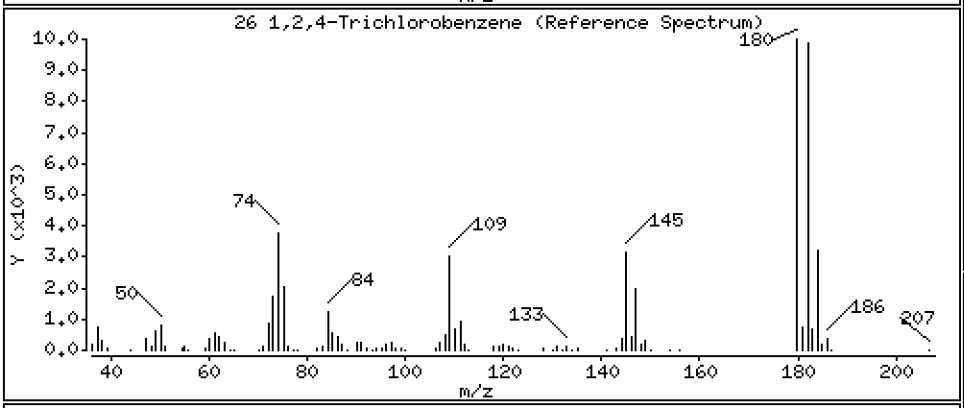
Concentration: 0.04191 ug/mL

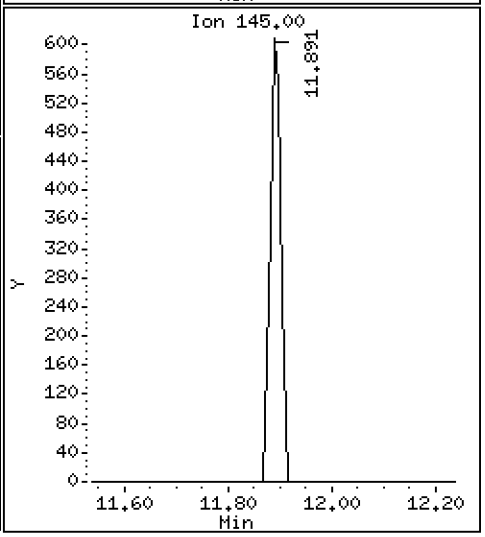


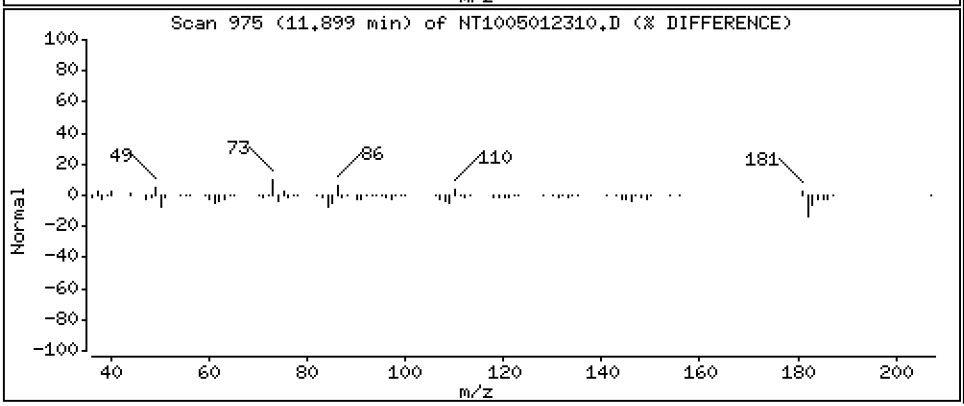












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

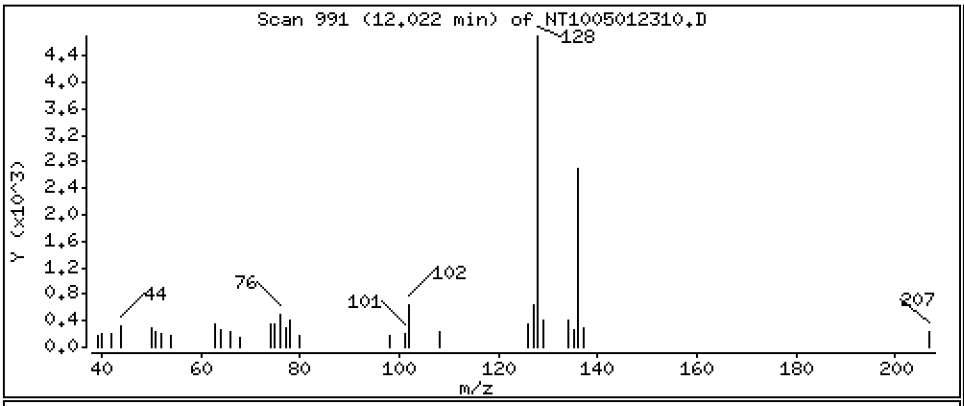
Operator: VTS

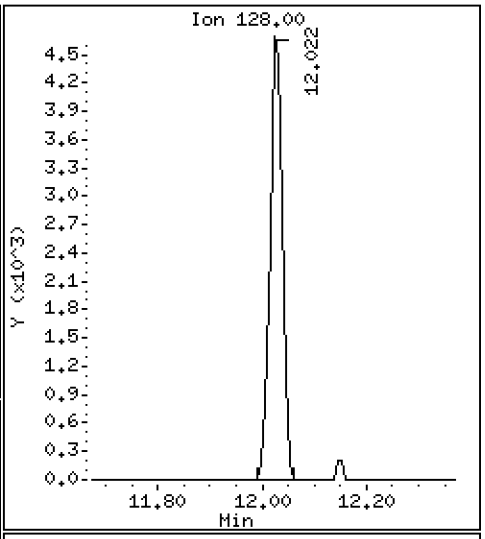
Column phase: ZB-5msi

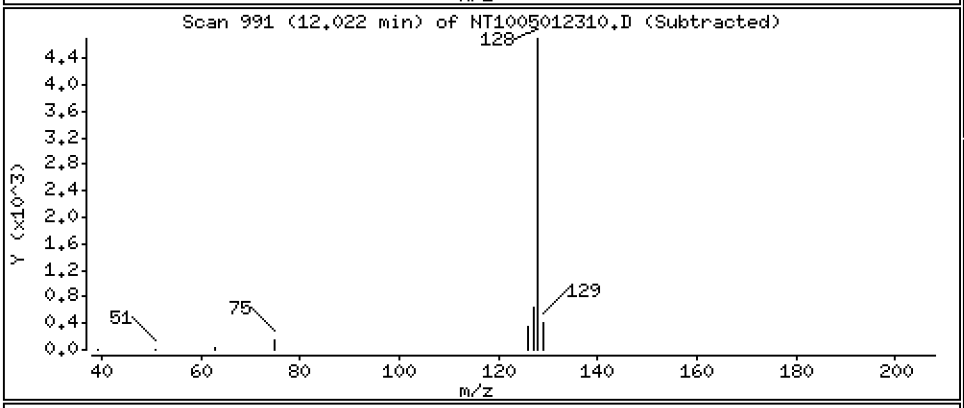
Column diameter: 0.25

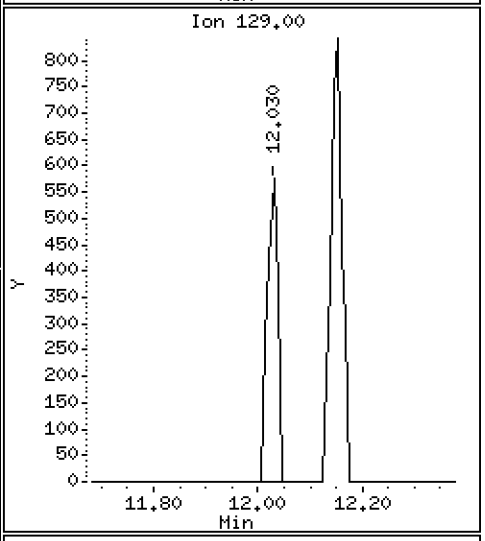
28 Naphthalene

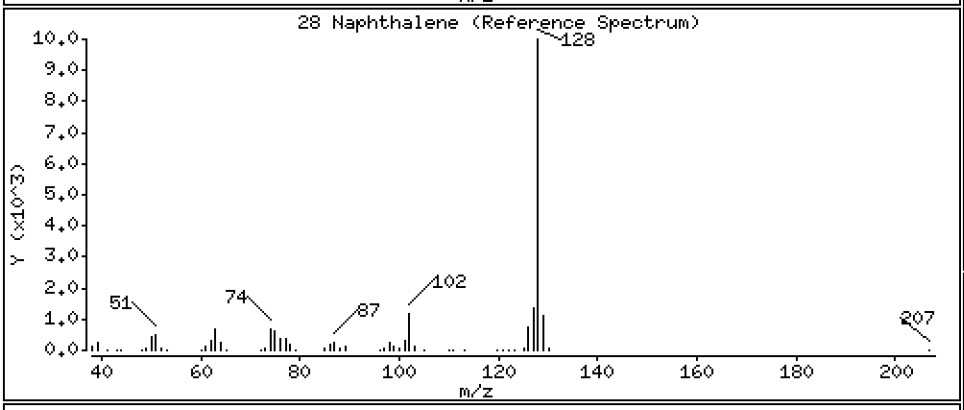
Concentration: 0.04965 ug/mL

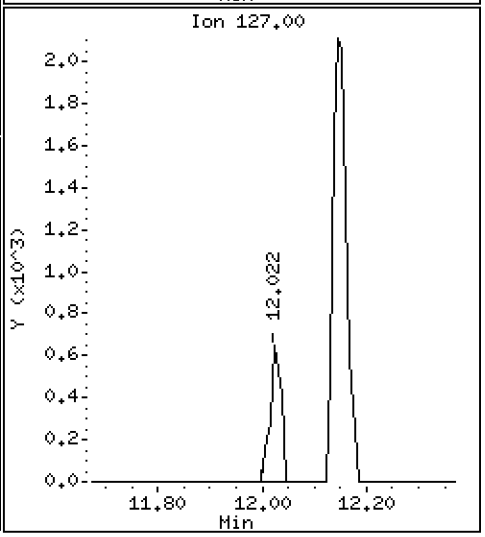


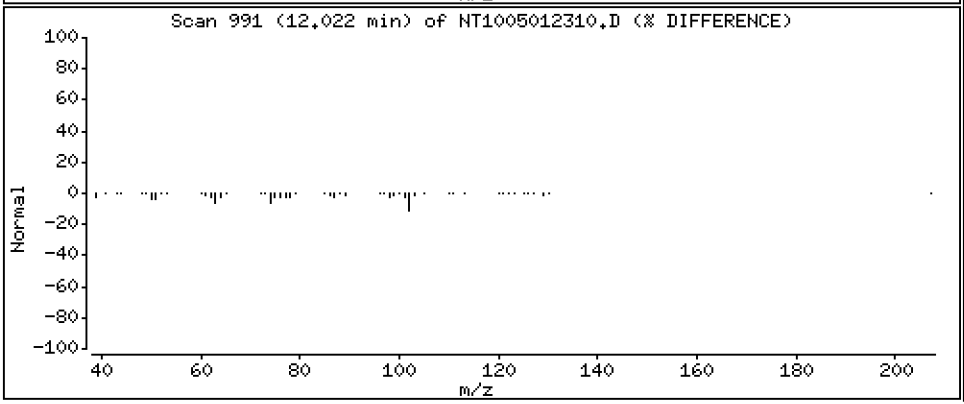












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

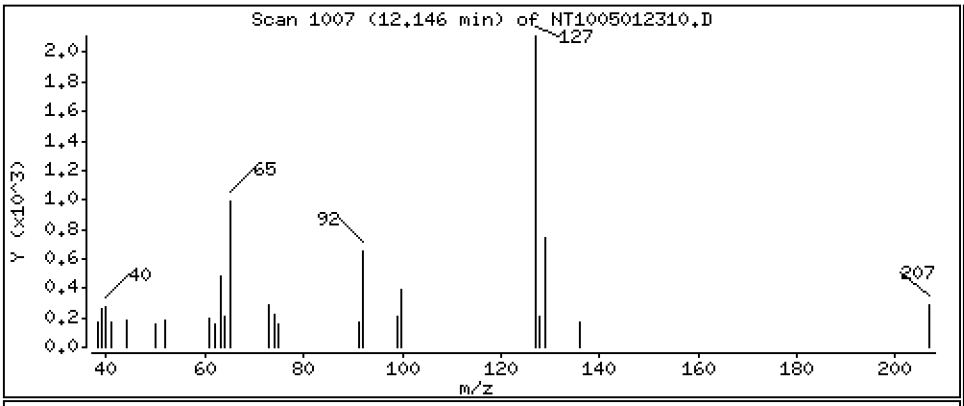
Operator: VTS

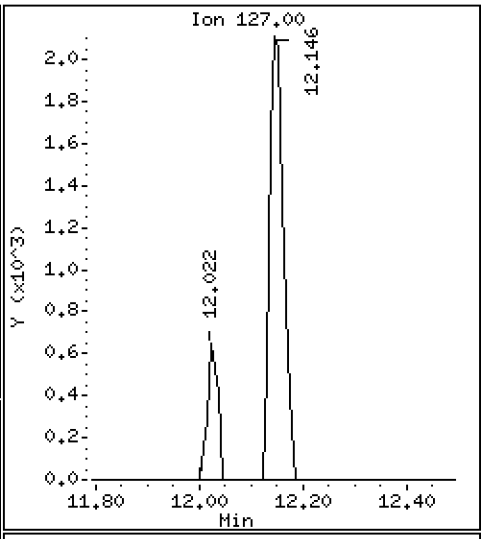
Column phase: ZB-5msi

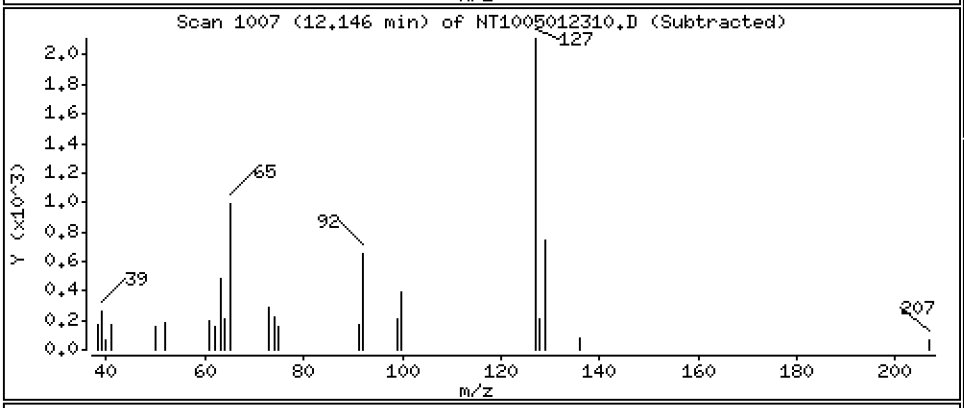
Column diameter: 0.25

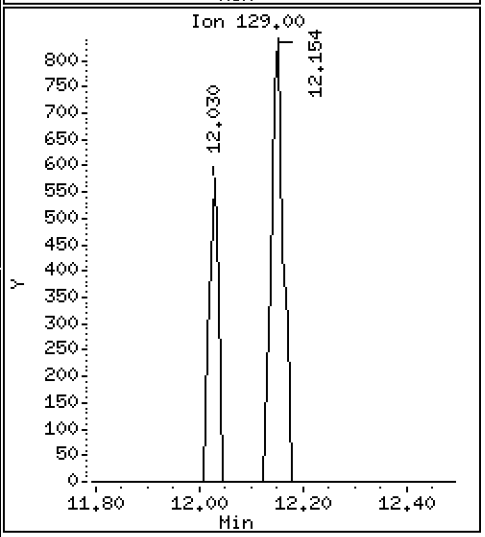
29 4-Chloroaniline

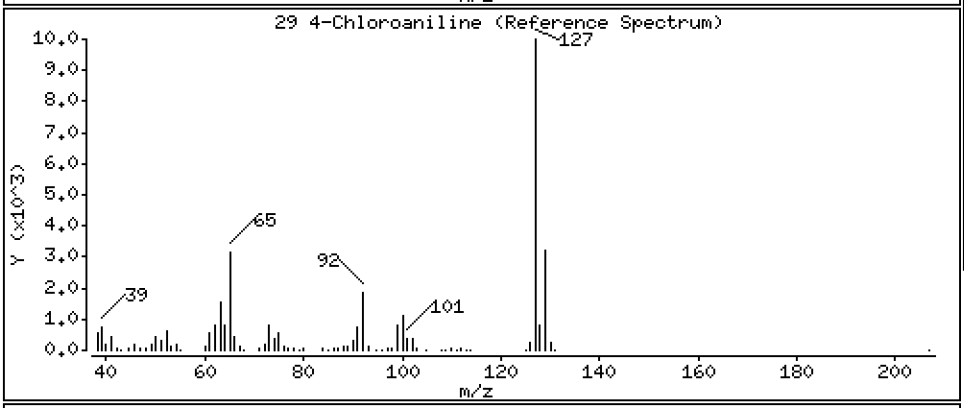
Concentration: 0.06826 ug/mL

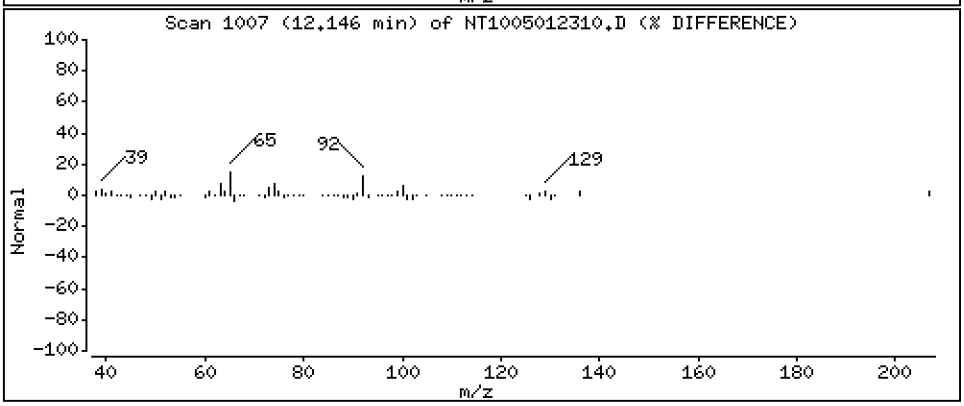












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

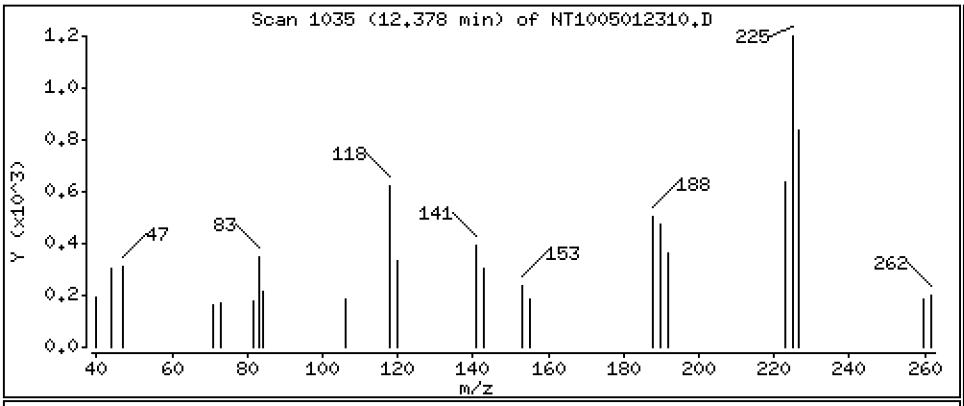
Operator: VTS

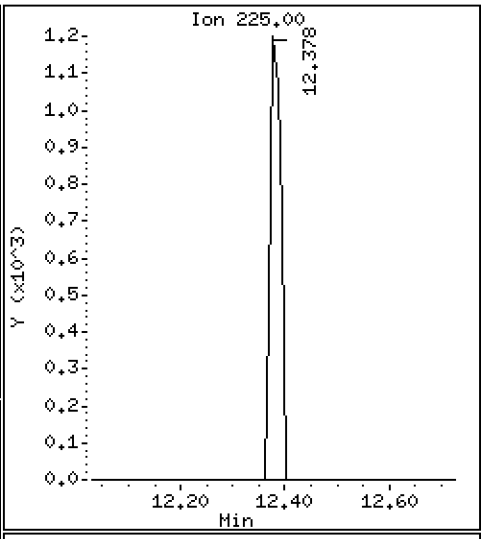
Column phase: ZB-5msi

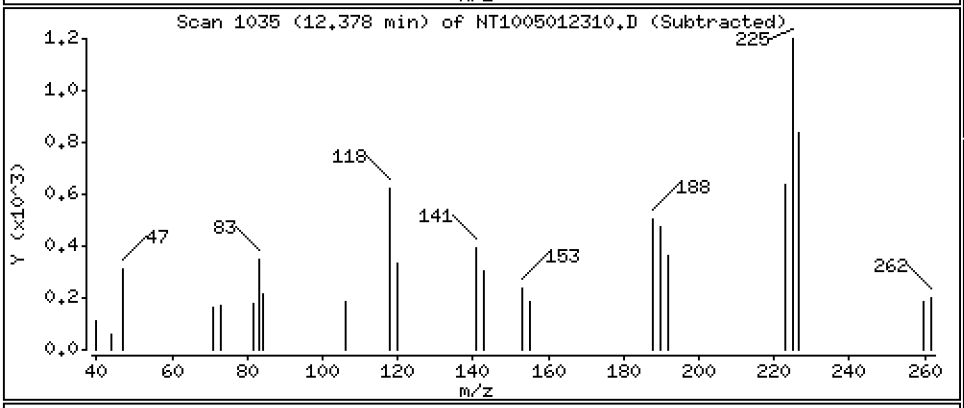
Column diameter: 0.25

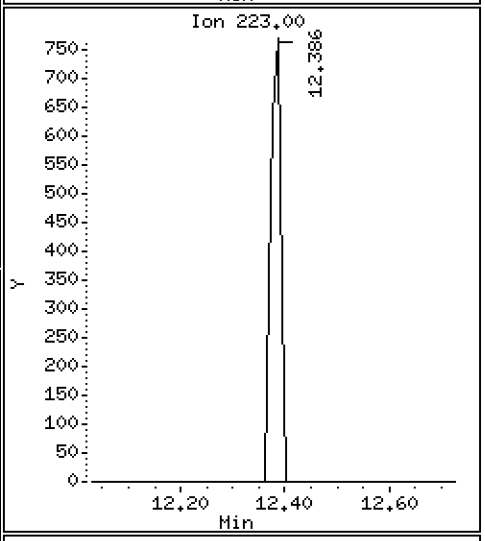
30 Hexachlorobutadiene

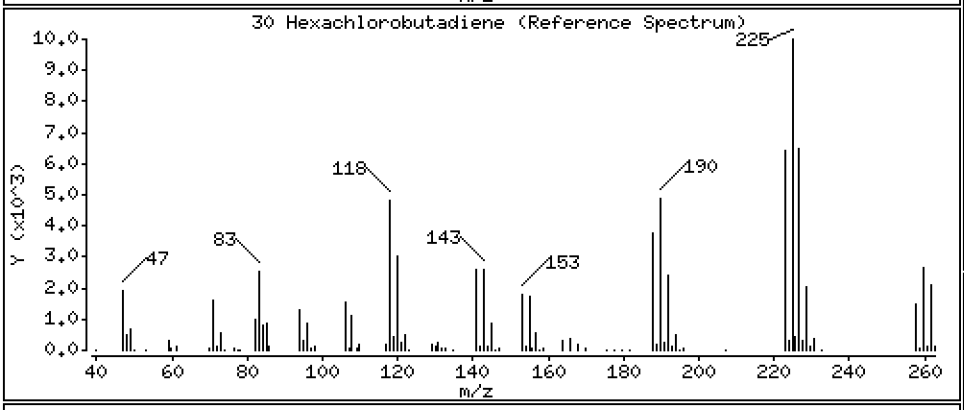
Concentration: 0.04326 ug/mL

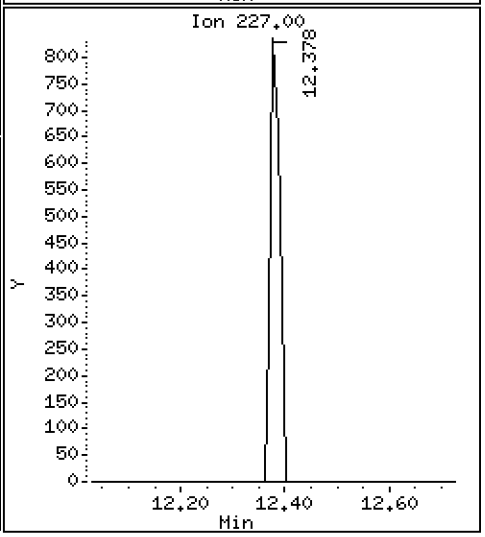


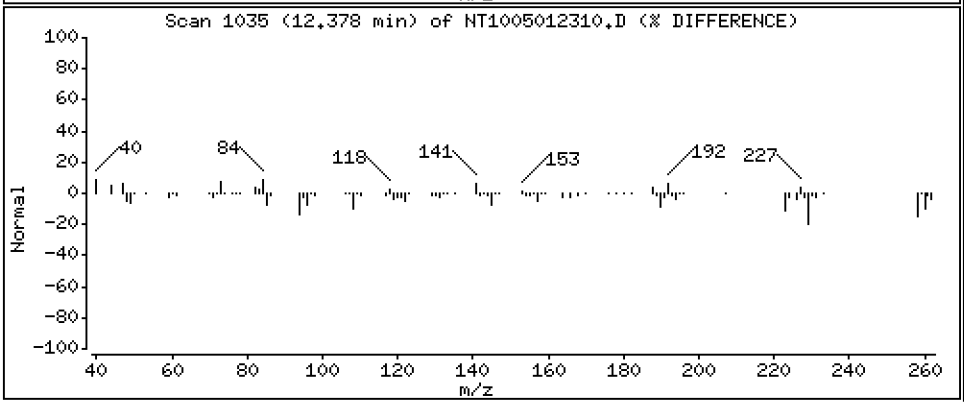












Date : 01-MAY-2023 20:04

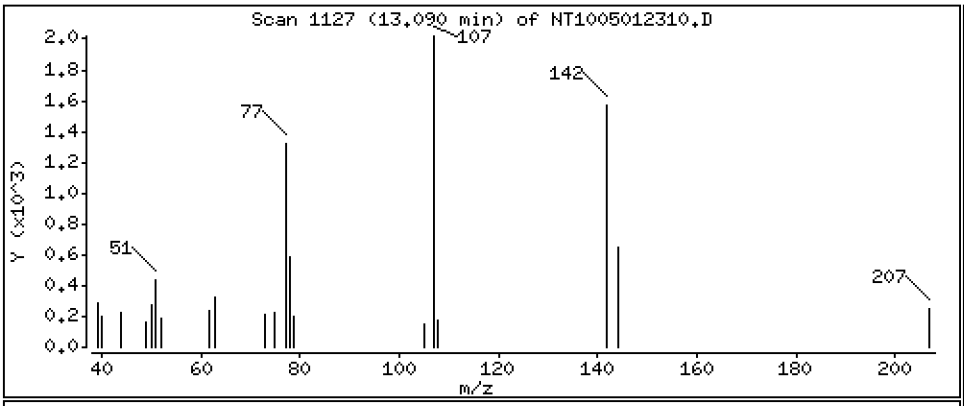
Client ID: Instrument: nt10.i

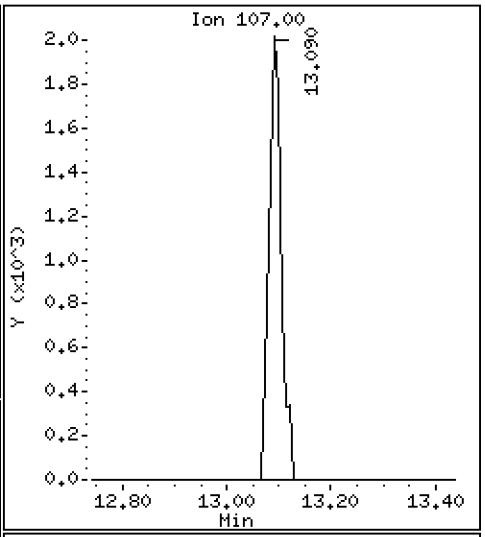
Sample Info: SEQ-SIM1

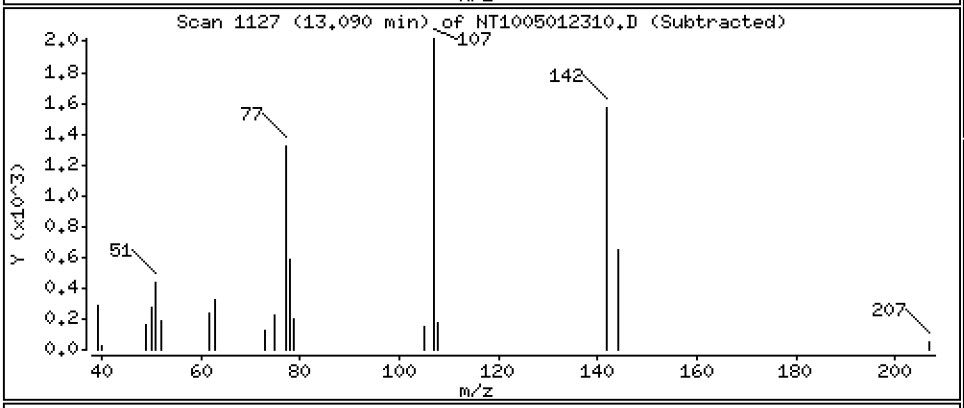
Operator: VTS

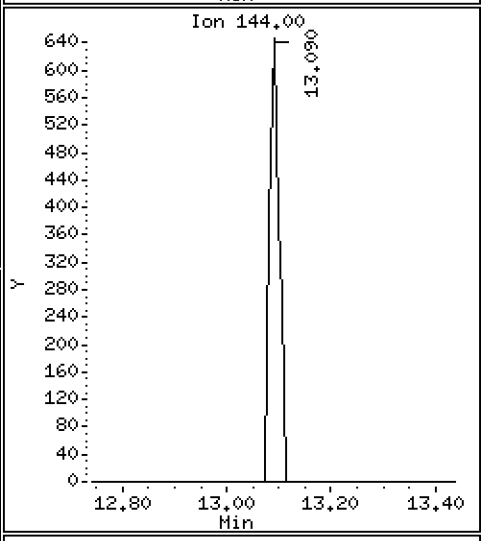
Column phase: ZB-5msi Column diameter: 0.25

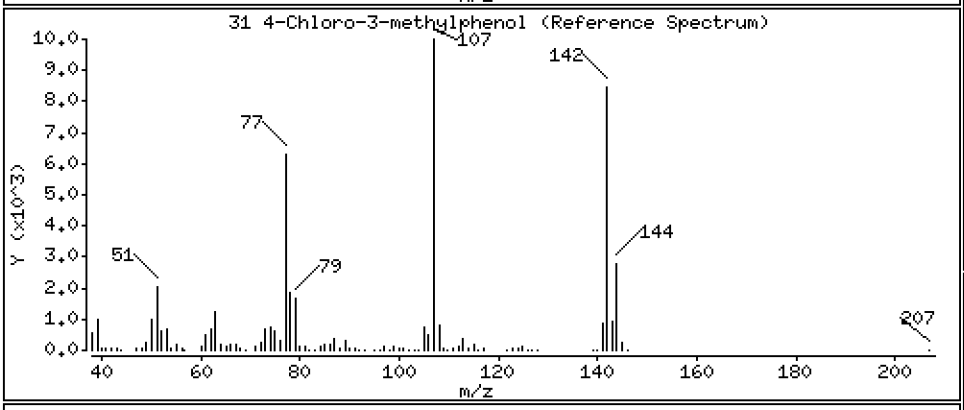
31 4-Chloro-3-methylphenol Concentration: 0.06241 ug/mL

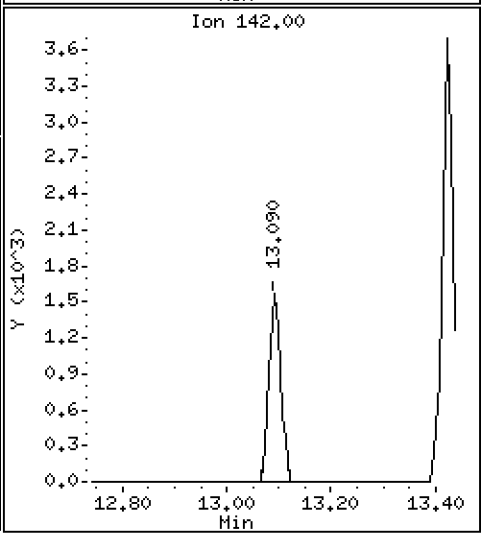


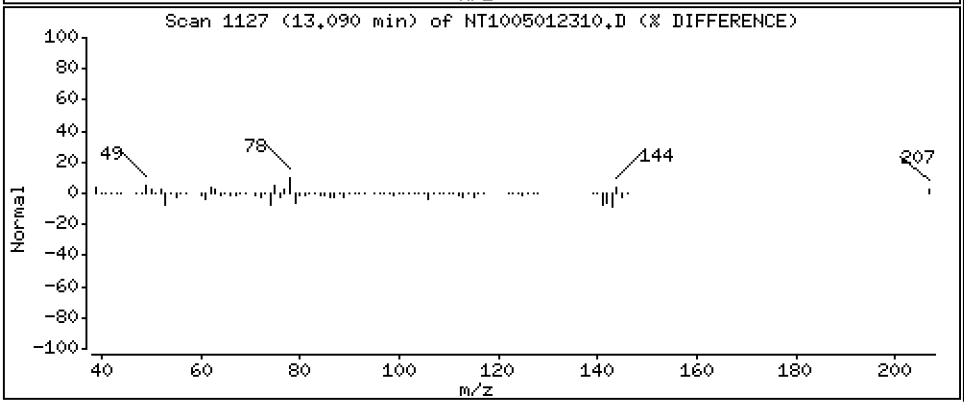












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

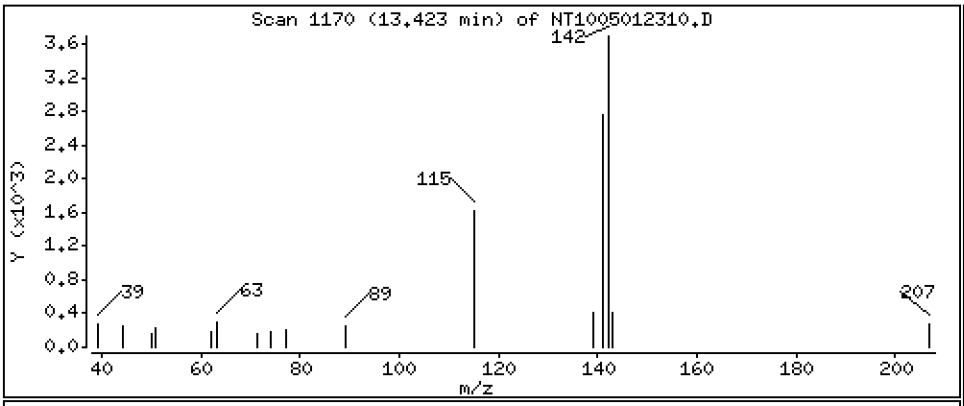
Operator: VTS

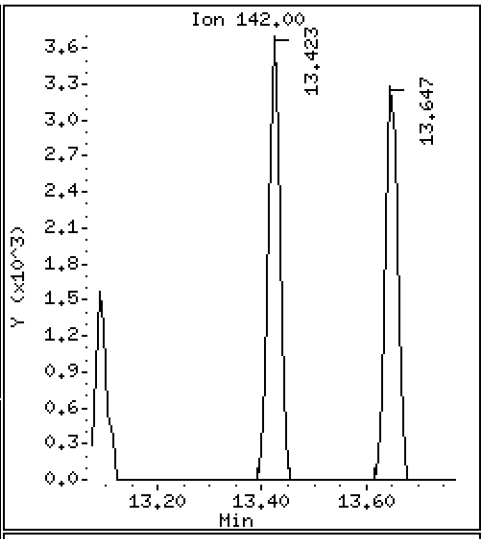
Column phase: ZB-5msi

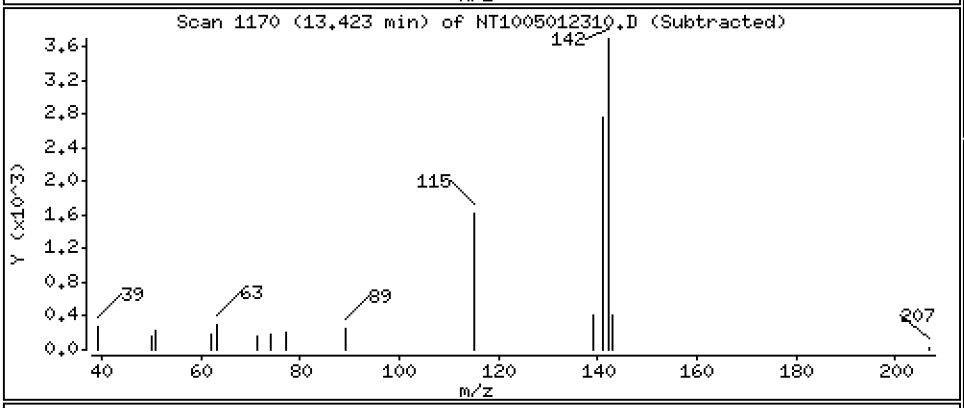
Column diameter: 0.25

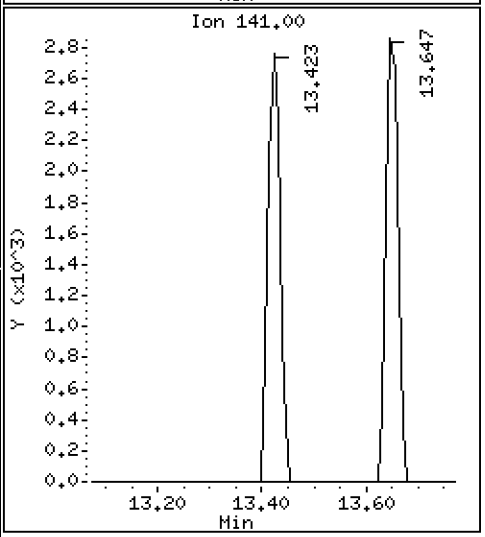
32 2-Methylnaphthalene

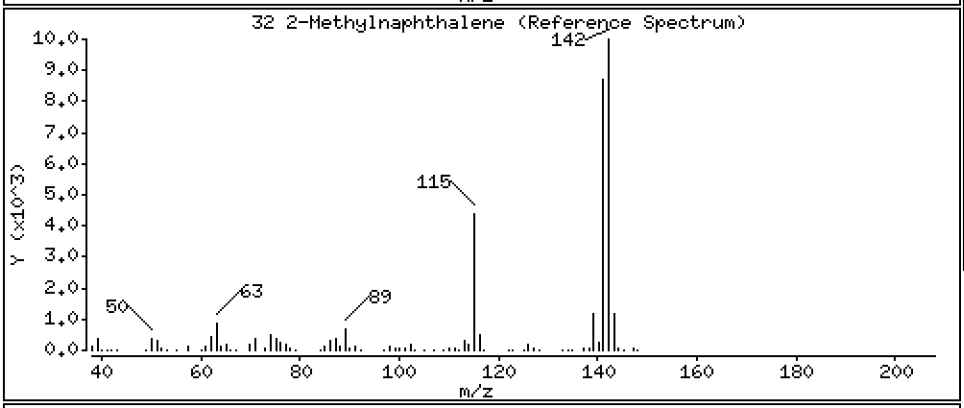
Concentration: 0.04555 ug/mL

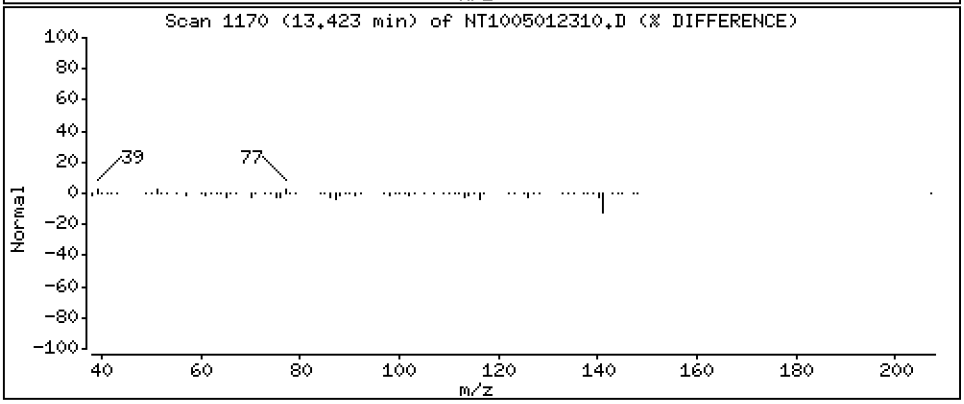












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

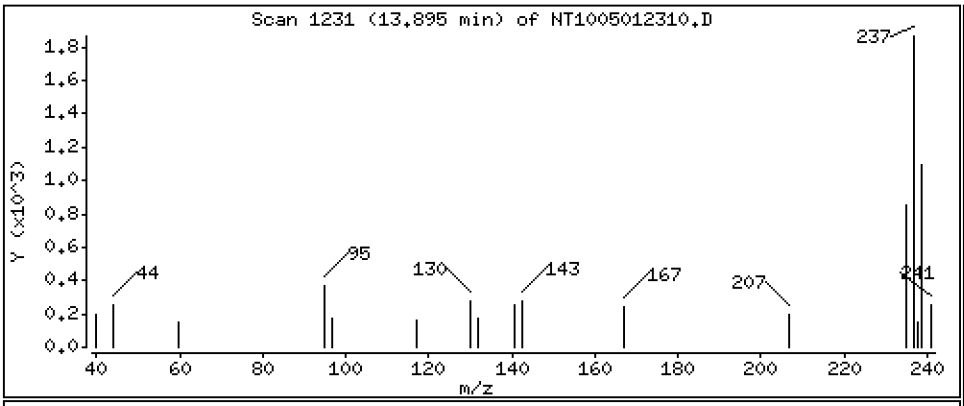
Operator: VTS

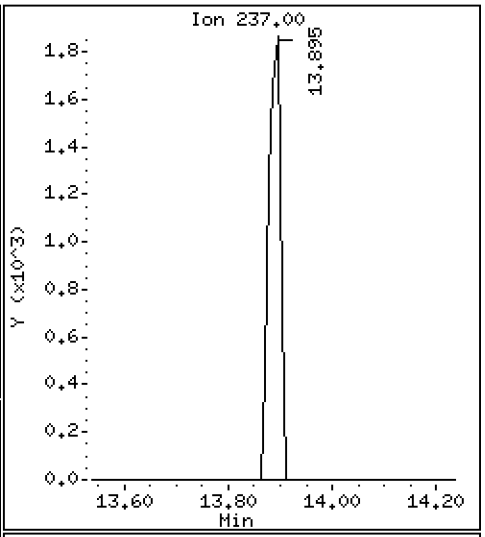
Column phase: ZB-5msi

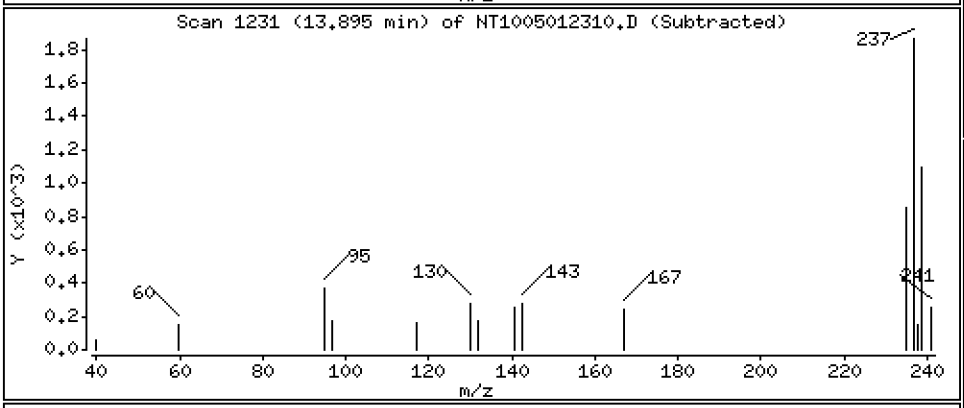
Column diameter: 0.25

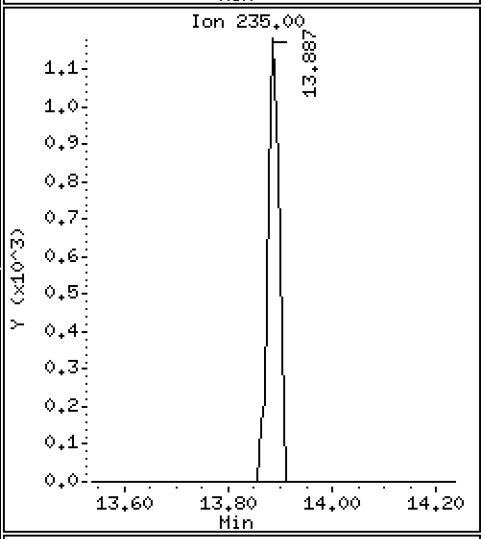
33 Hexachlorocyclopentadiene

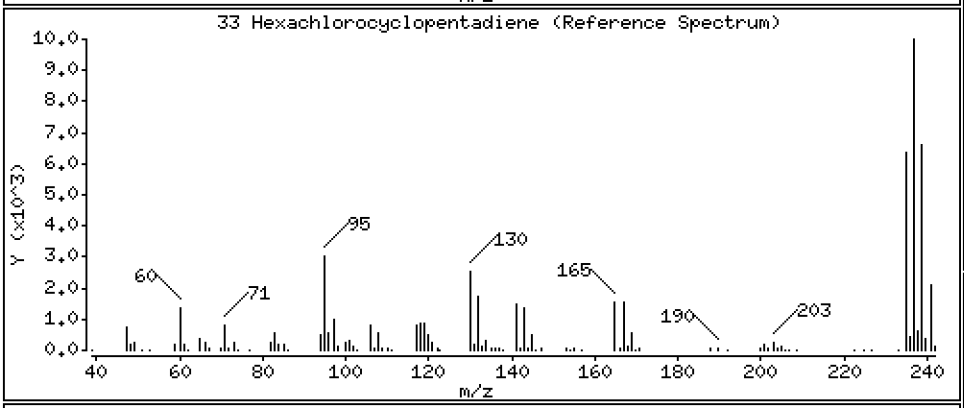
Concentration: 0.07556 ug/mL

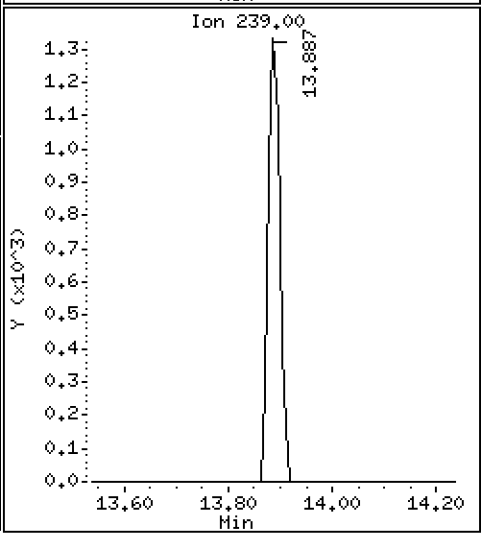


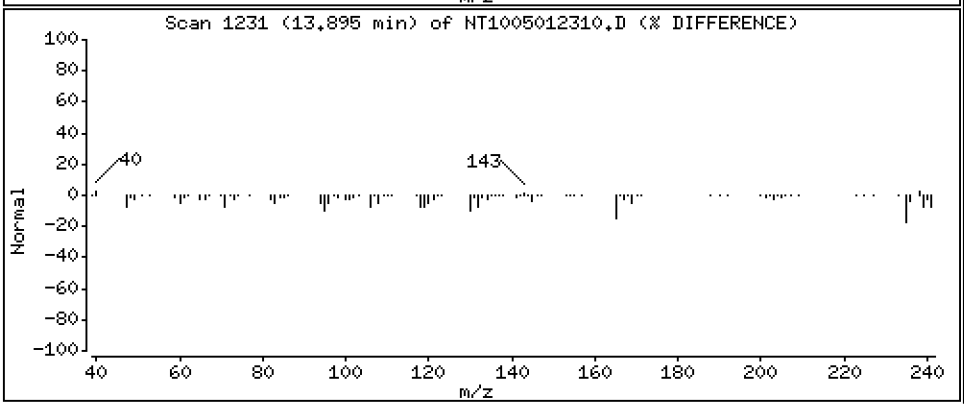












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

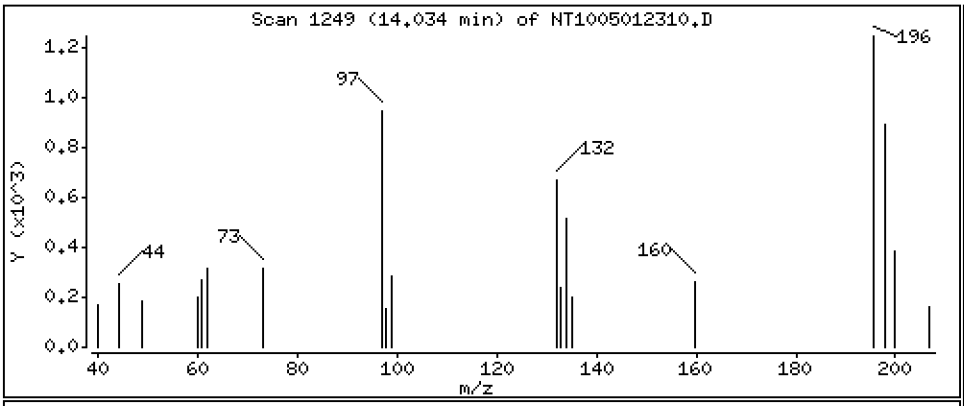
Operator: VTS

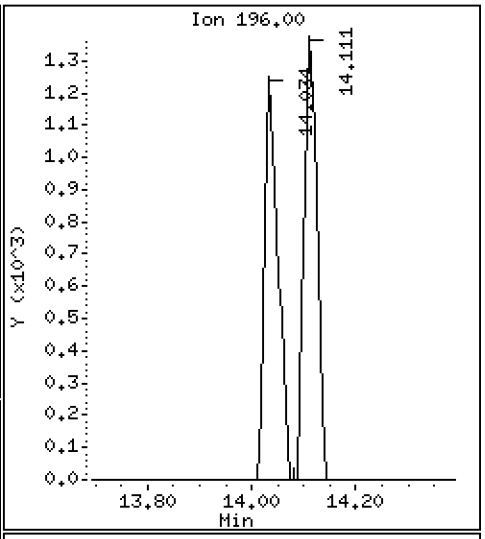
Column phase: ZB-5msi

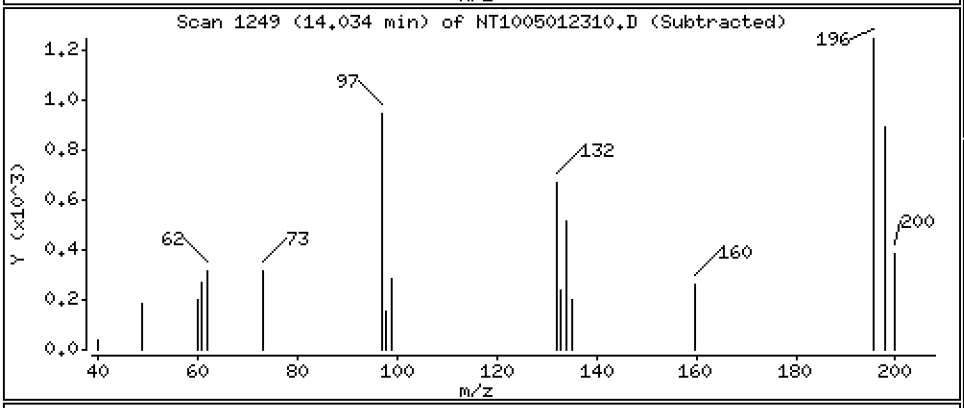
Column diameter: 0.25

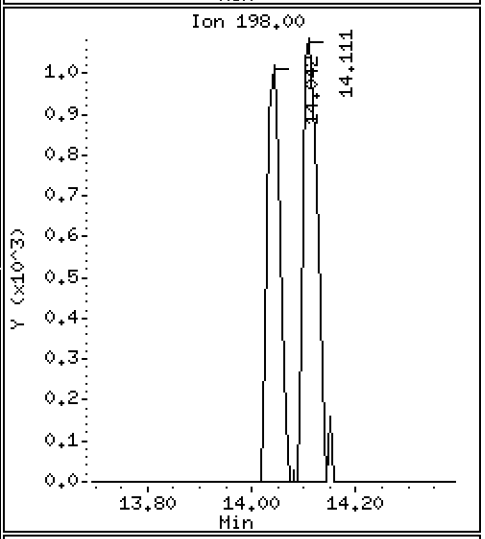
34 2,4,6-Trichlorophenol

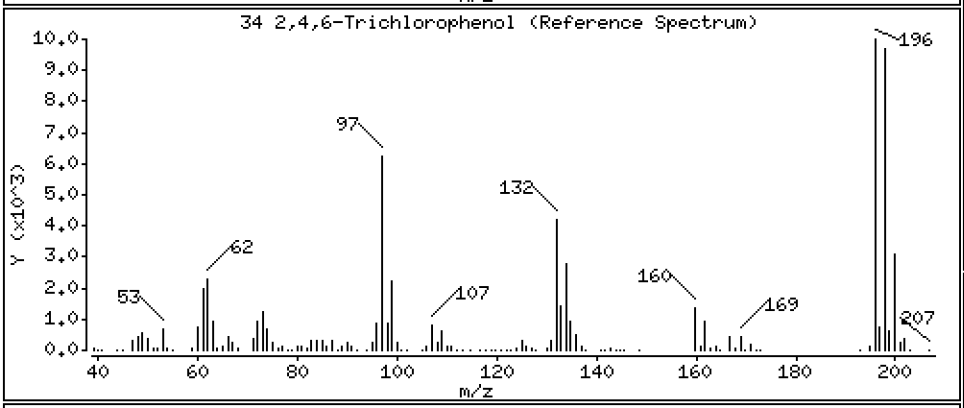
Concentration: 0.05856 ug/mL

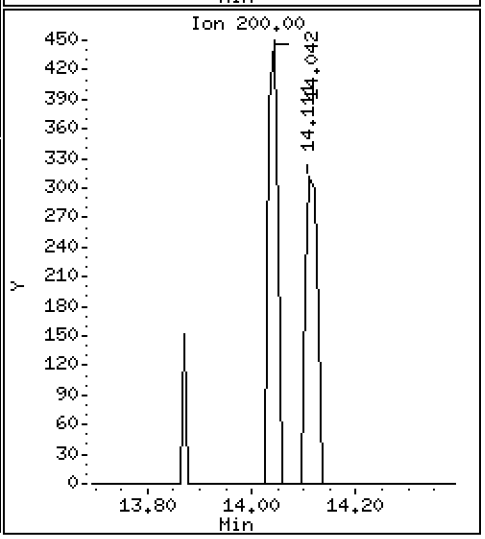


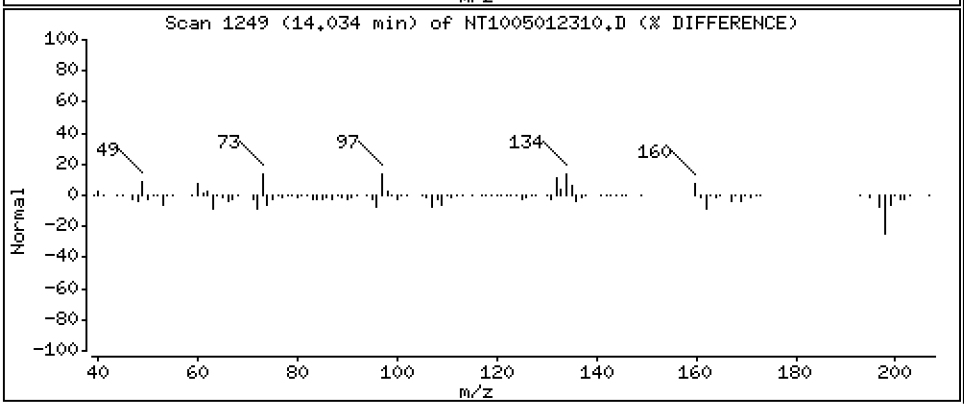












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

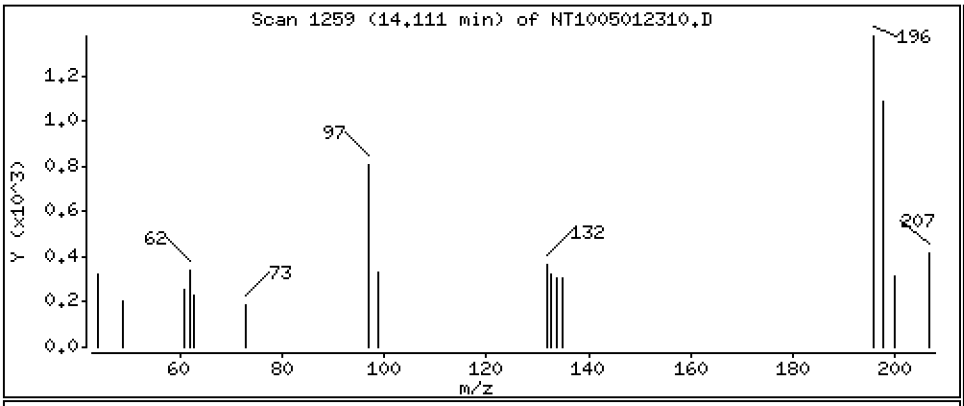
Operator: VTS

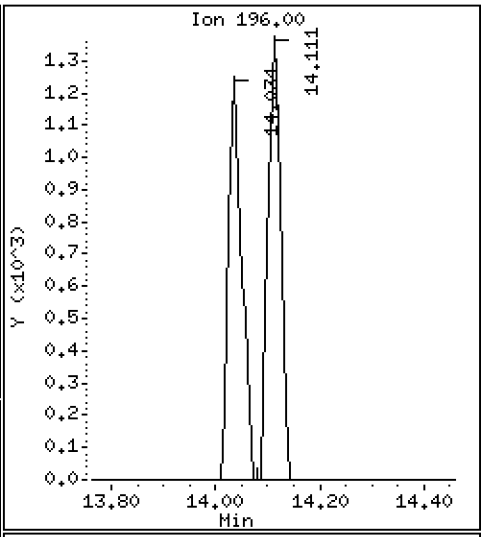
Column phase: ZB-5msi

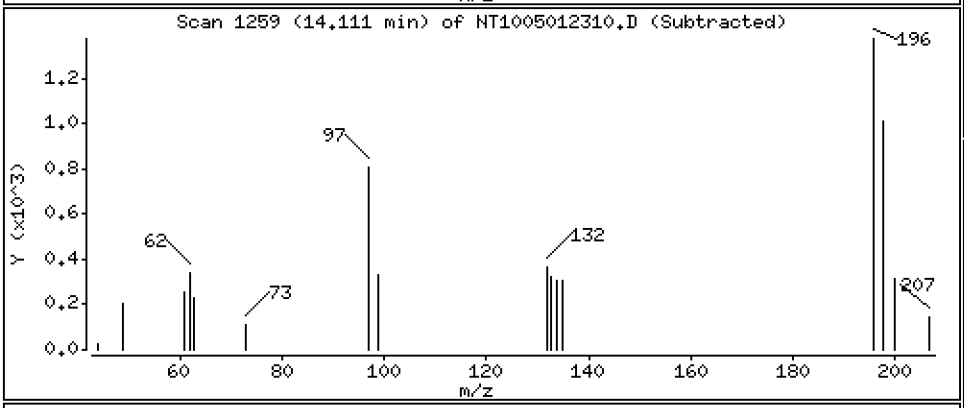
Column diameter: 0.25

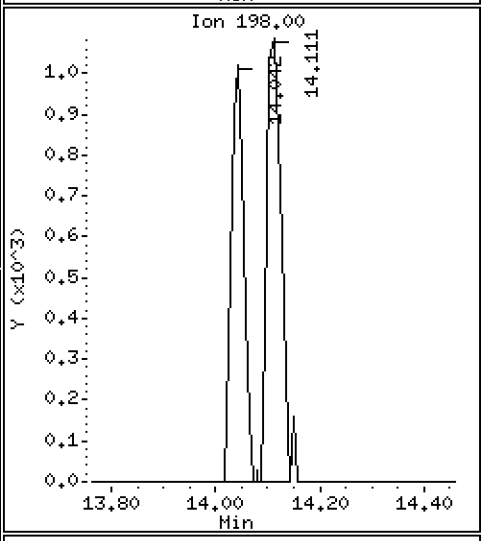
35 2,4,5-Trichlorophenol

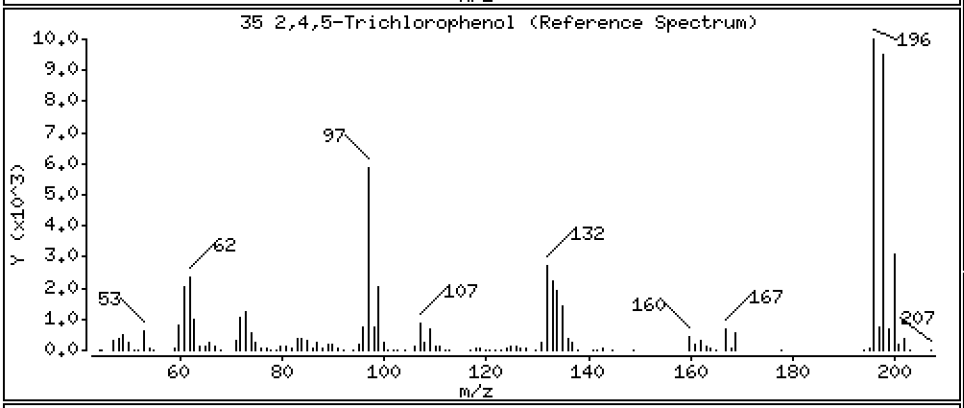
Concentration: 0.05665 ug/mL

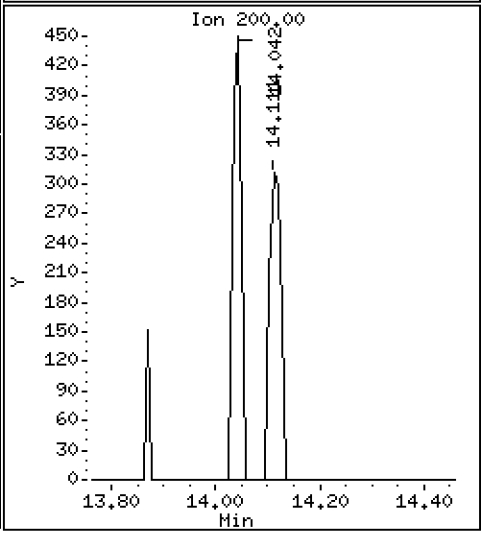


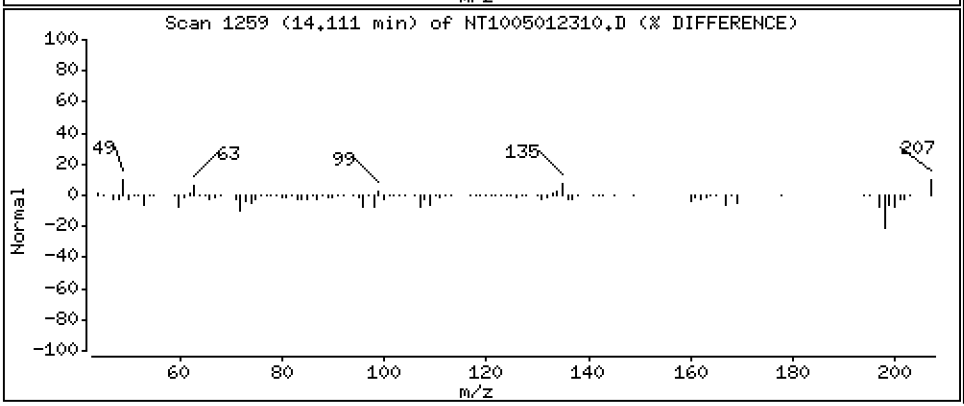












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

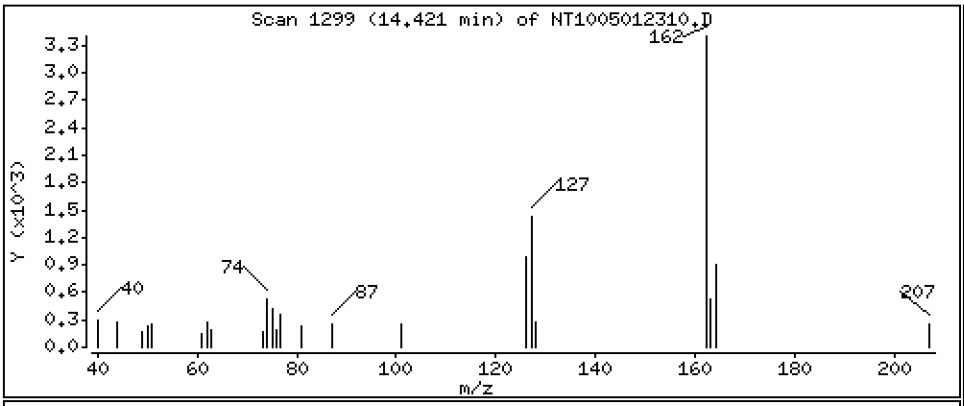
Operator: VTS

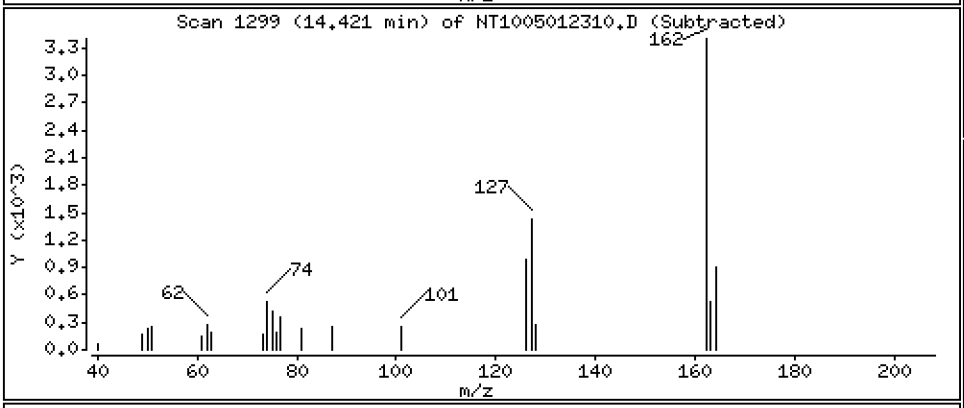
Column phase: ZB-5msi

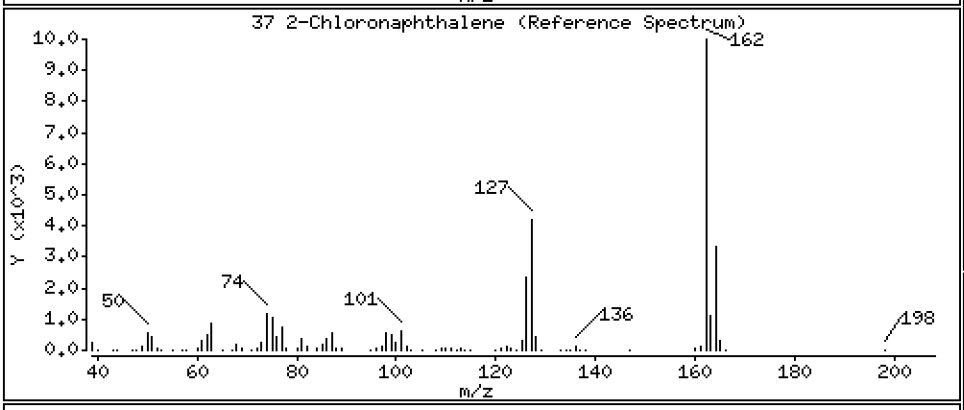
Column diameter: 0.25

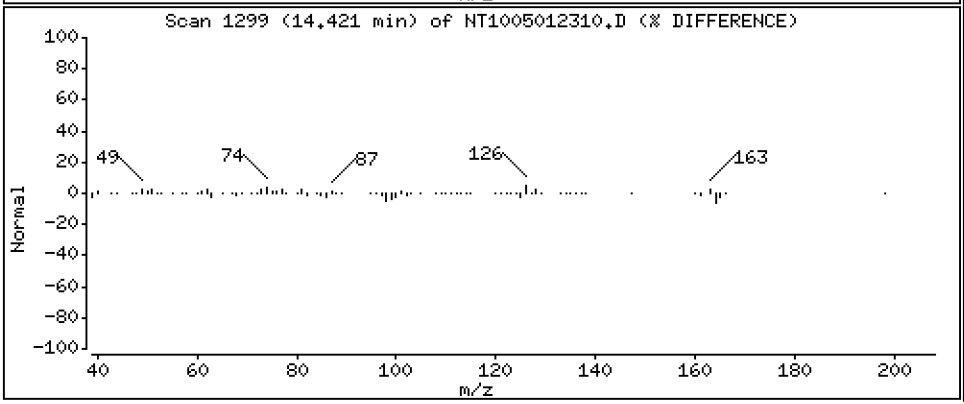
37 2-Chloronaphthalene

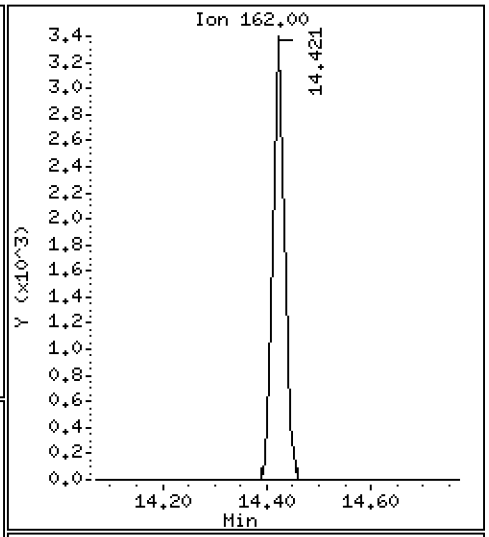
Concentration: 0.04959 ug/mL

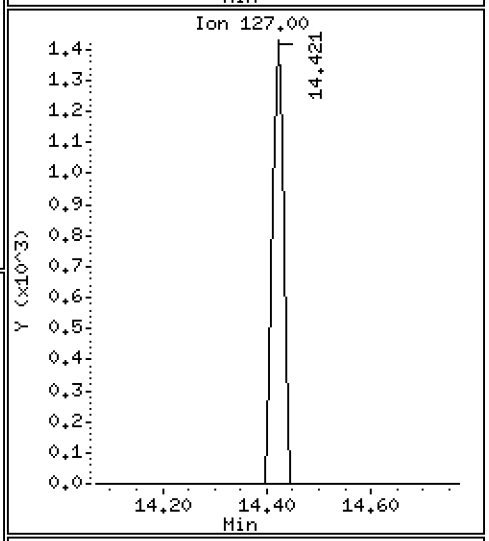


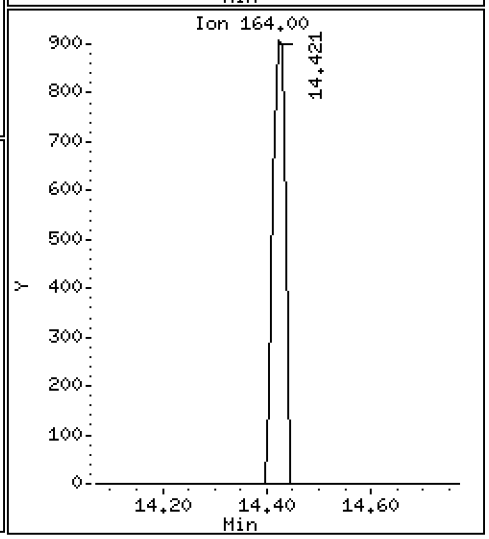












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

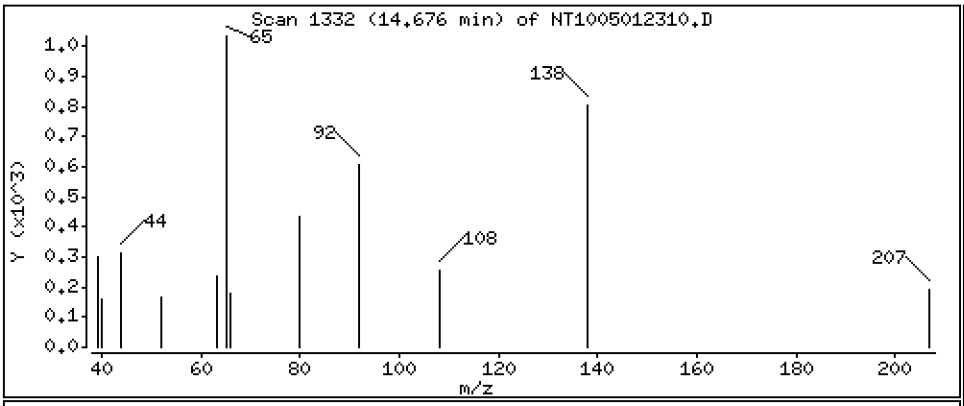
Operator: VTS

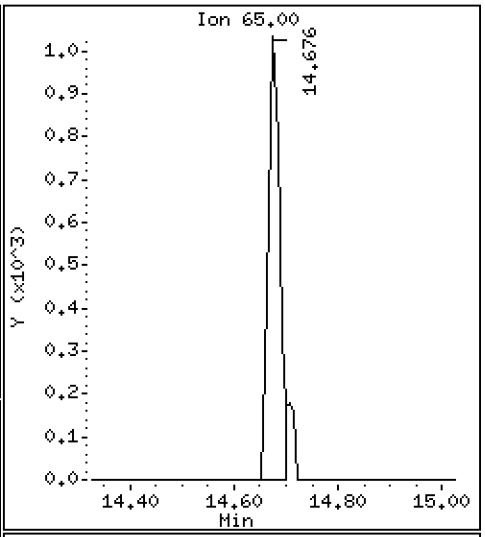
Column phase: ZB-5msi

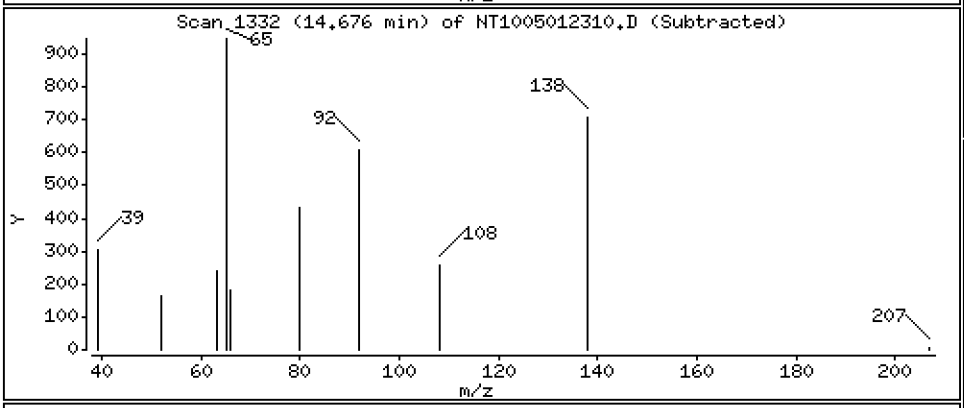
Column diameter: 0.25

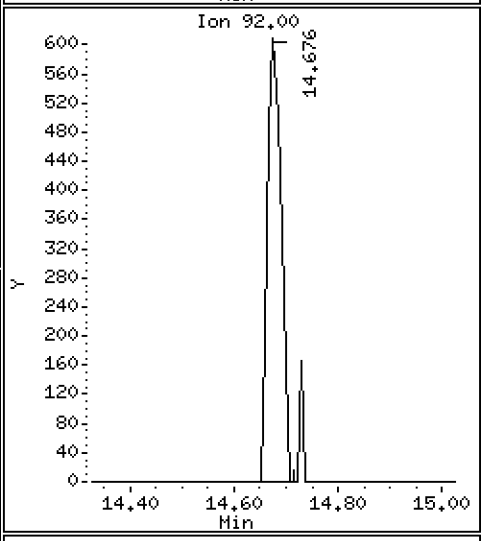
38 2-Nitroaniline

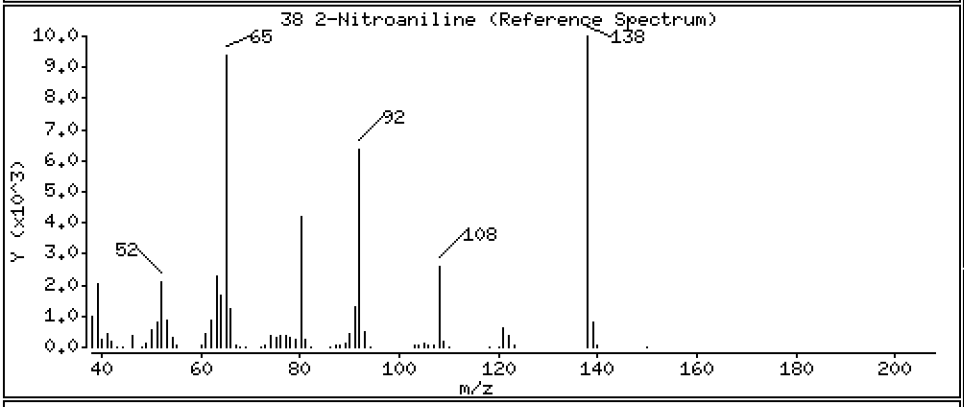
Concentration: 0.05129 ug/mL

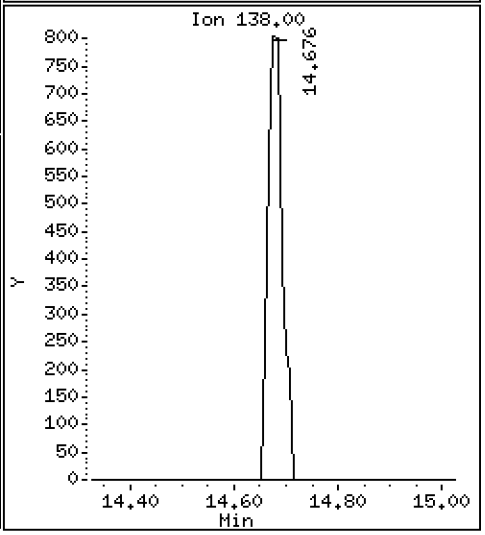


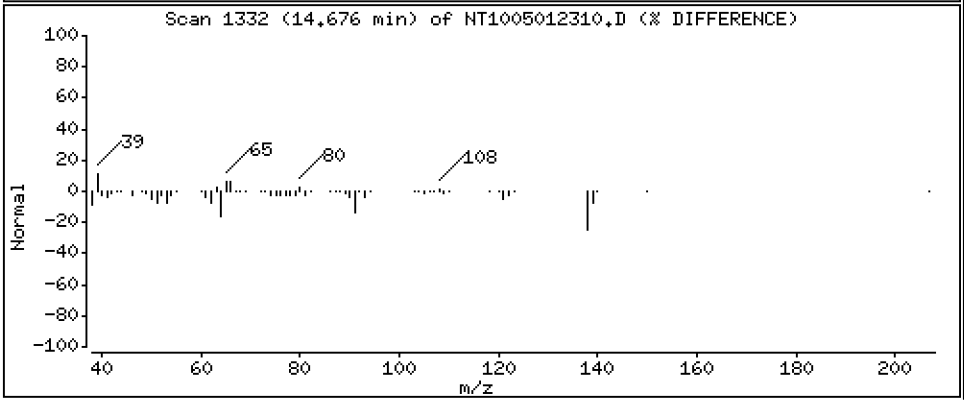












Date : 01-MAY-2023 20:04

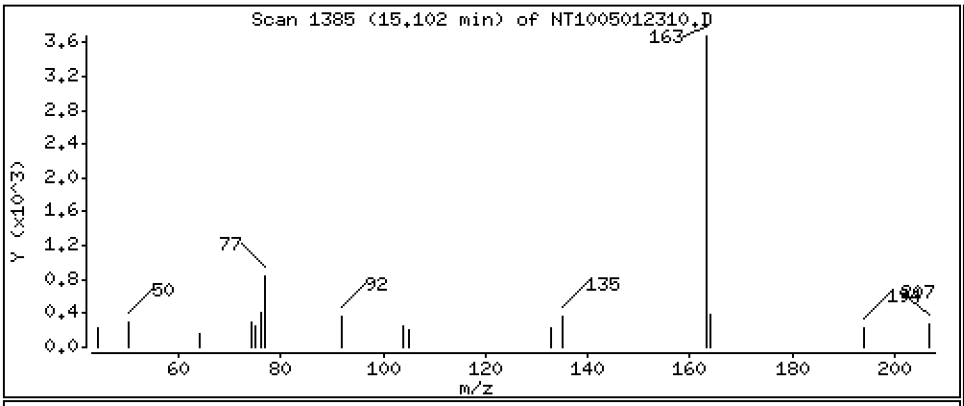
Client ID: Instrument: nt10.i

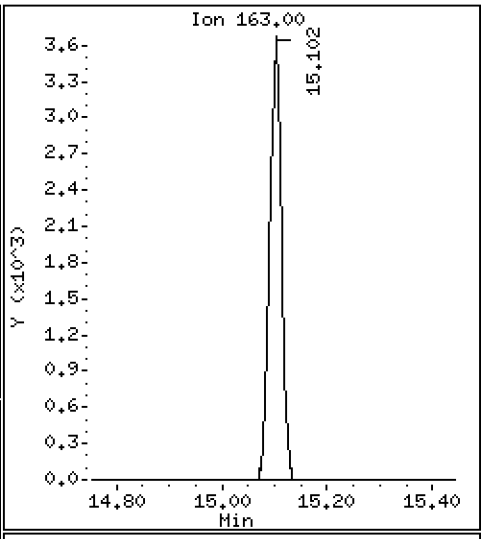
Sample Info: SEQ-SIM1

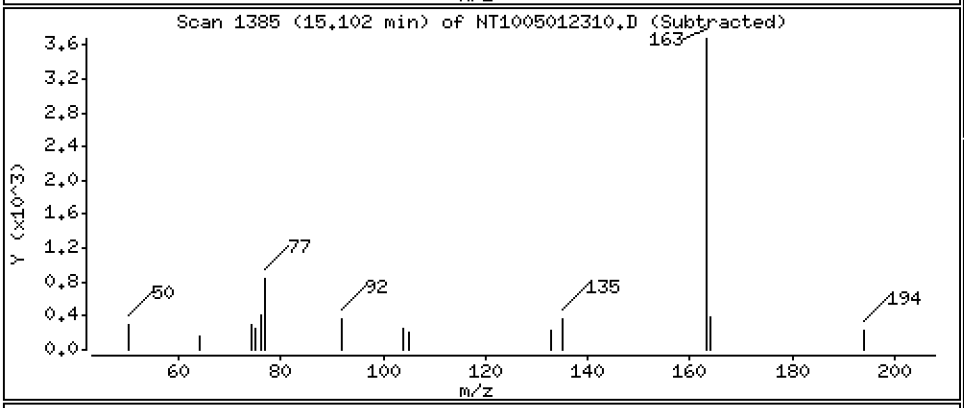
Operator: VTS

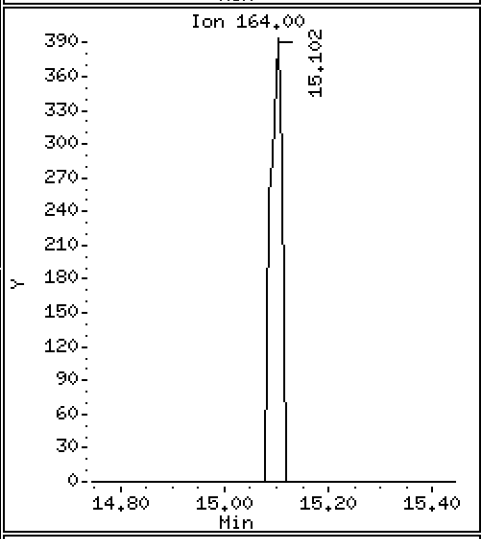
Column phase: ZB-5msi Column diameter: 0.25

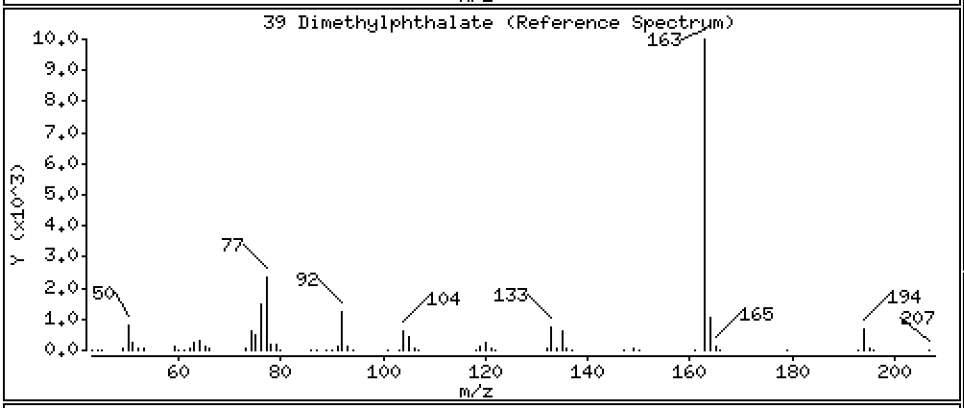
39 Dimethylphthalate Concentration: 0.04723 ug/mL

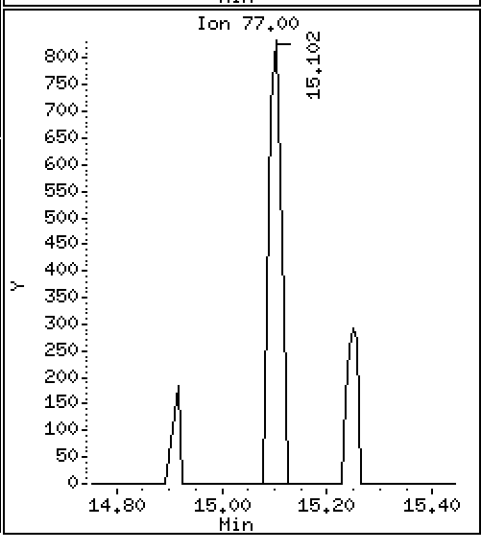


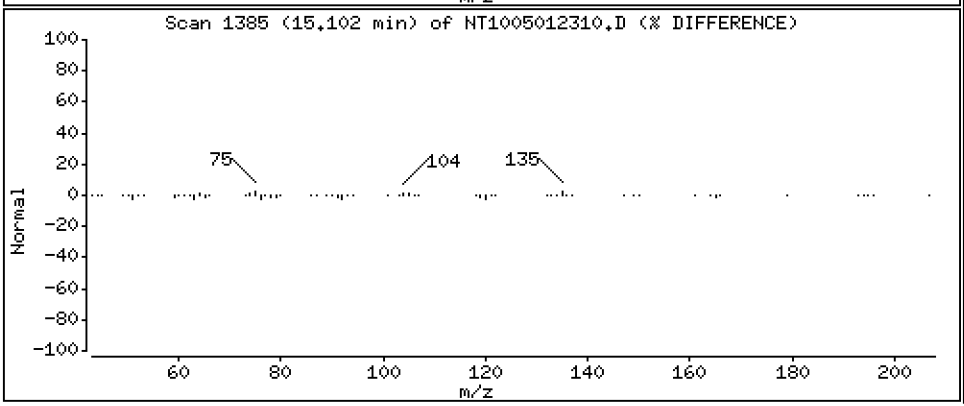












Date : 01-MAY-2023 20:04

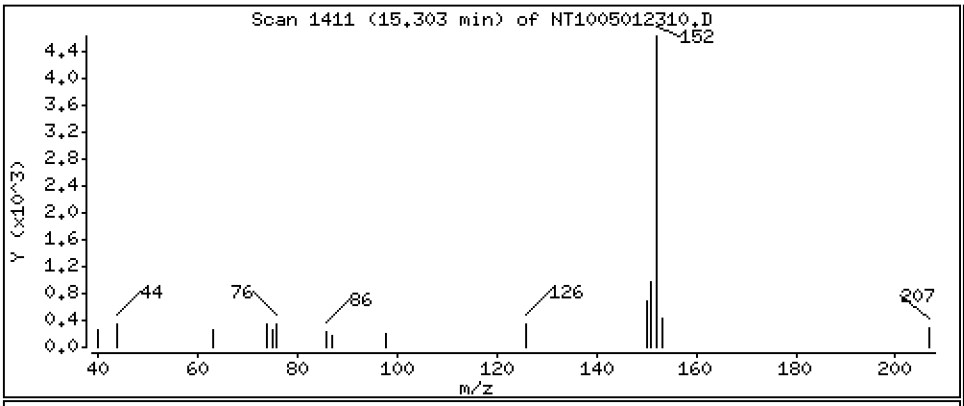
Client ID: Instrument: nt10.i

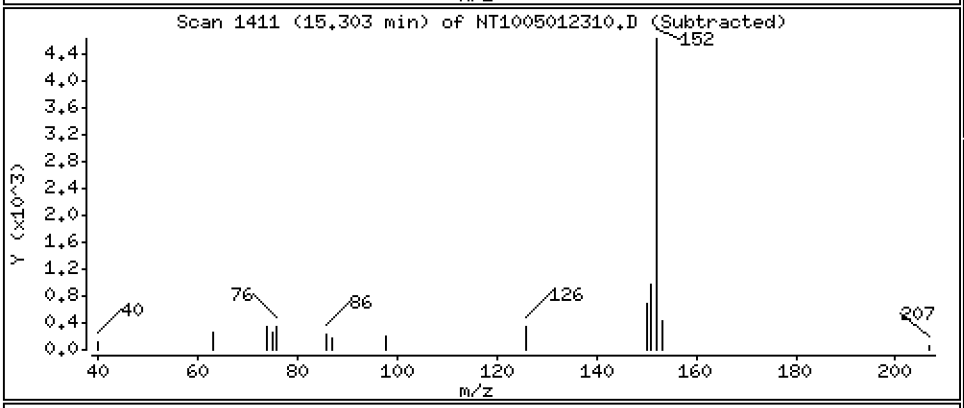
Sample Info: SEQ-SIM1

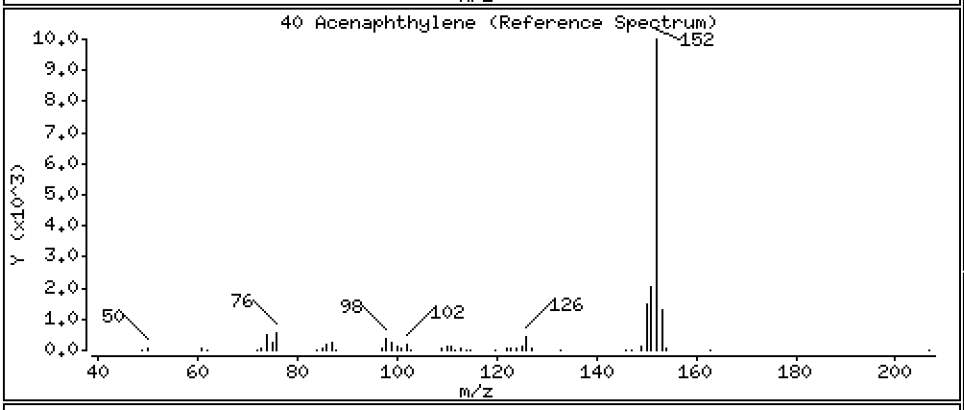
Operator: VTS

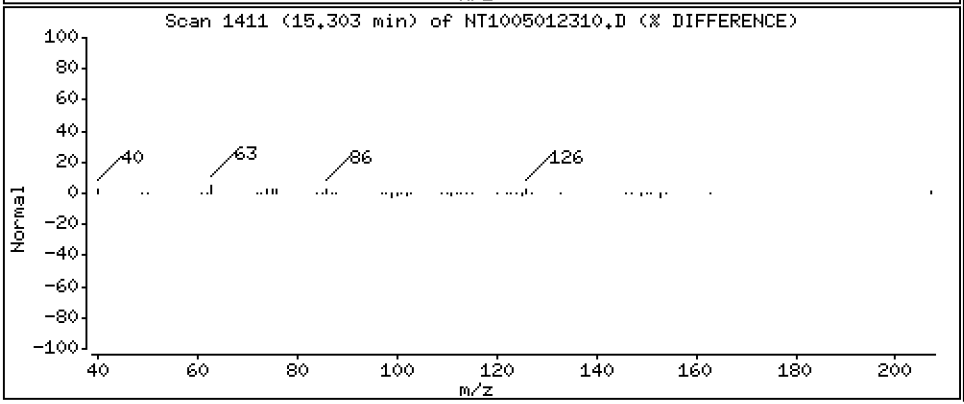
Column phase: ZB-5msi Column diameter: 0.25

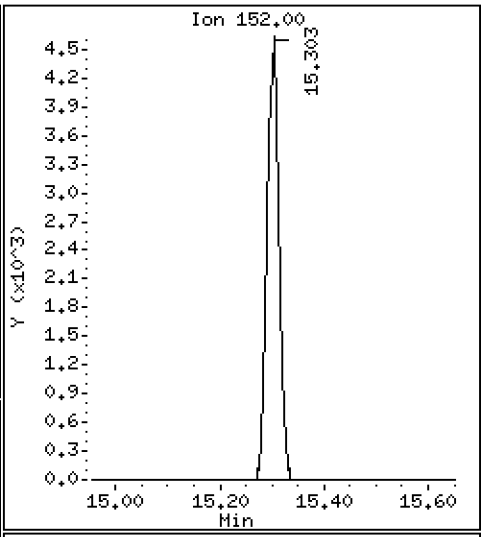
40 Acenaphthylene Concentration: 0.04342 ug/mL

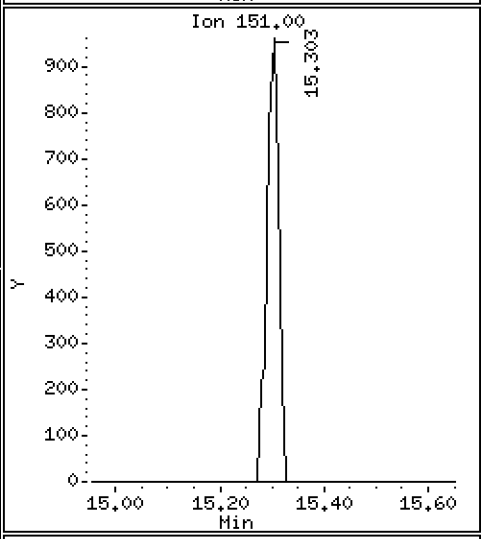


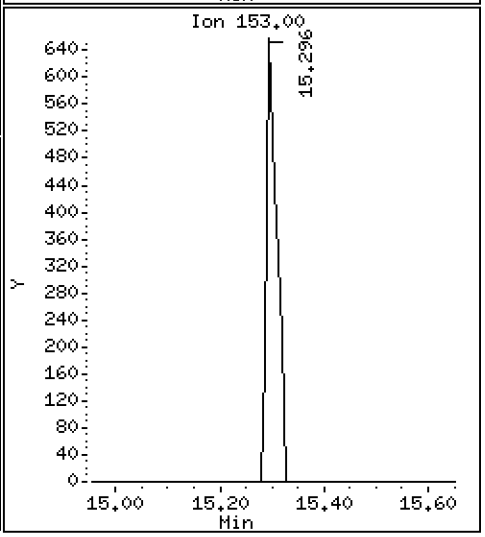












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

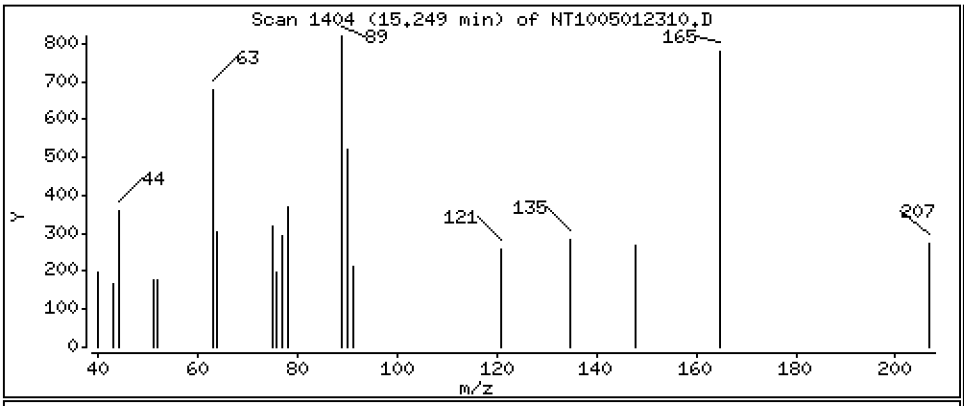
Operator: VTS

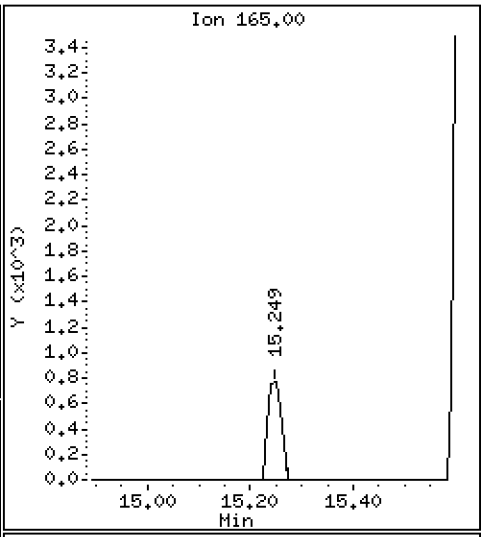
Column phase: ZB-5msi

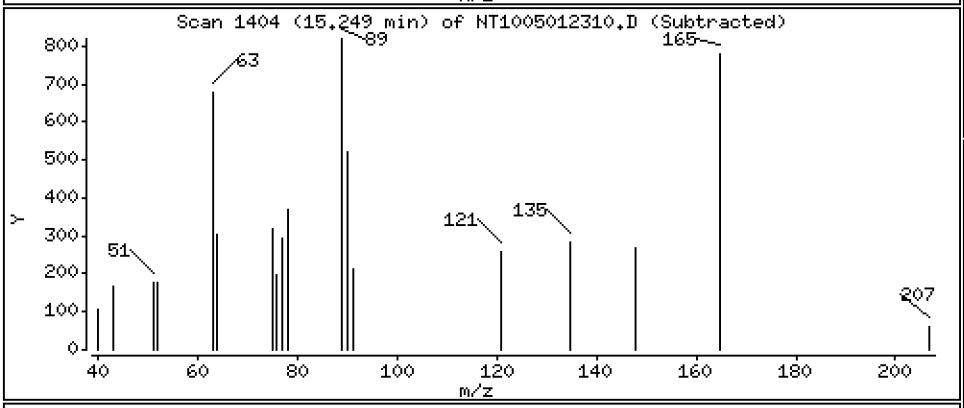
Column diameter: 0.25

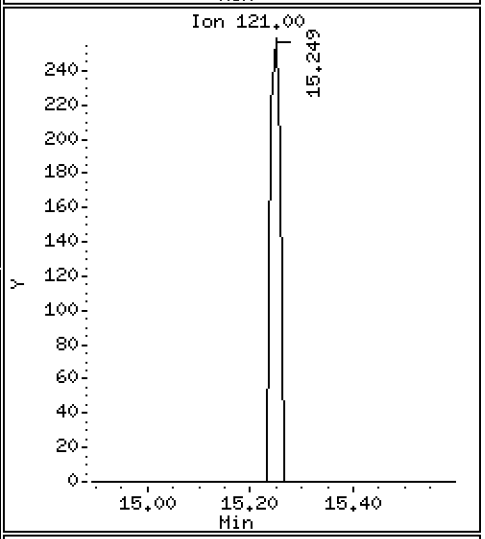
41 2,6-Dinitrotoluene

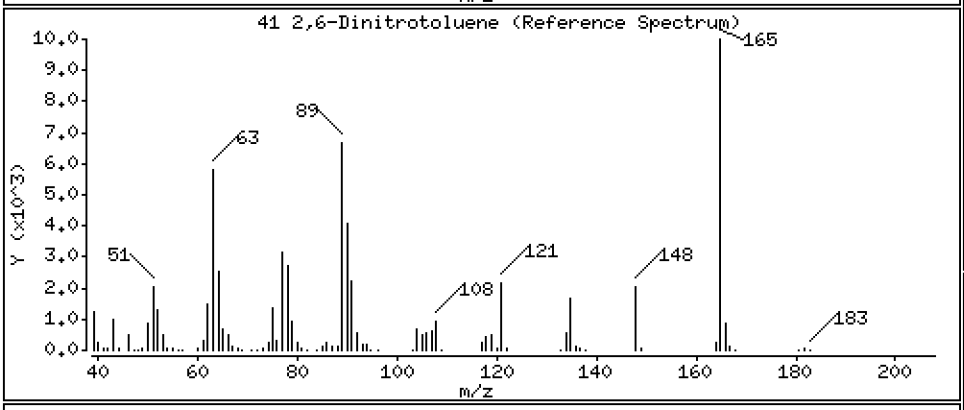
Concentration: 0.05099 ug/mL

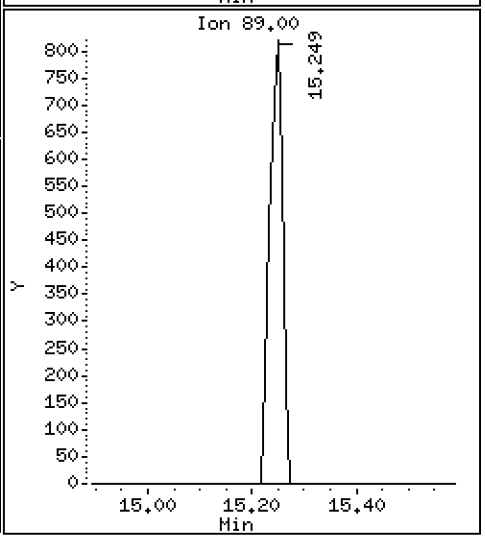


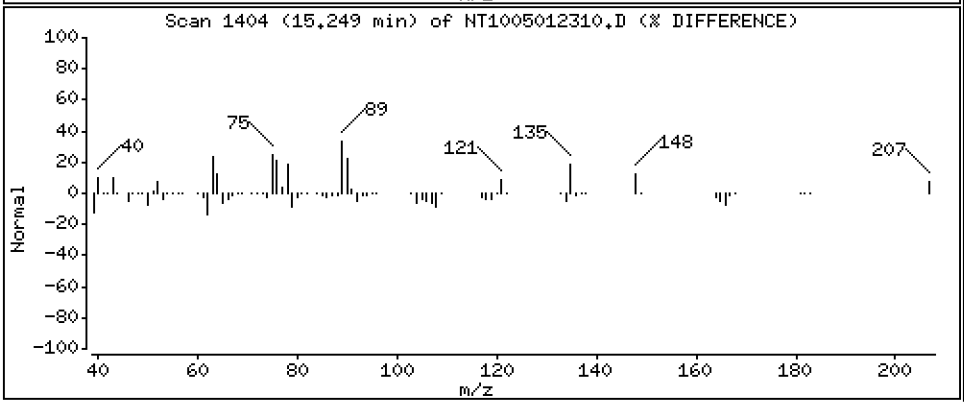












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

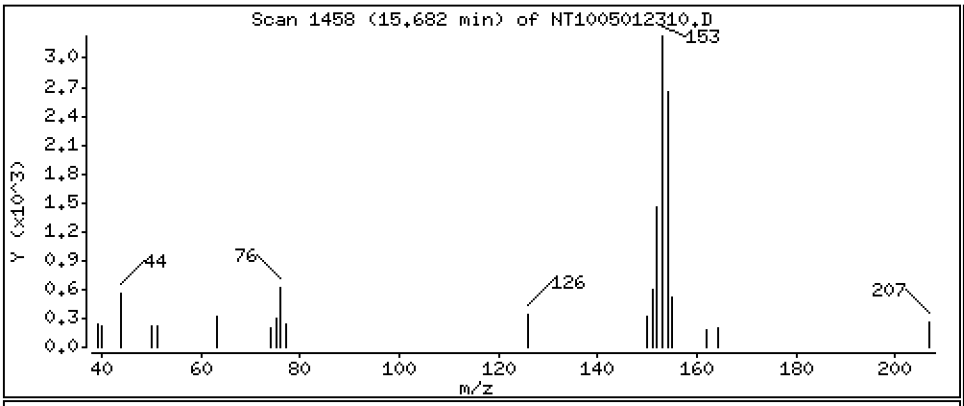
Operator: VTS

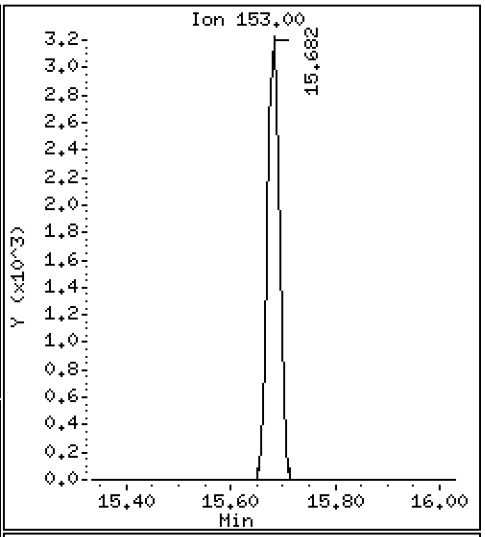
Column phase: ZB-5msi

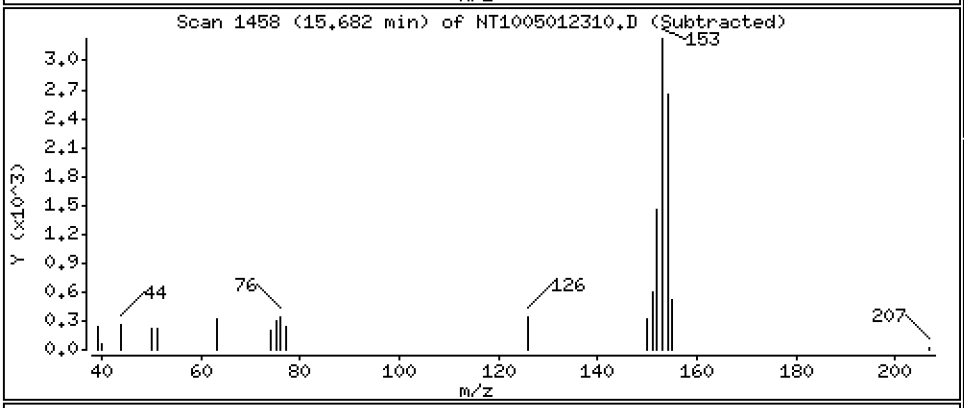
Column diameter: 0.25

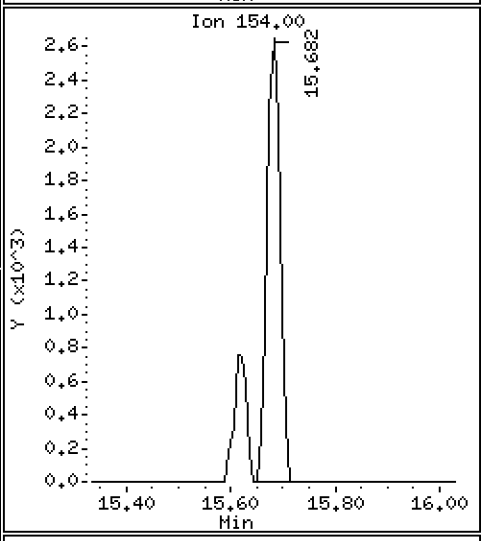
44 Acenaphthene

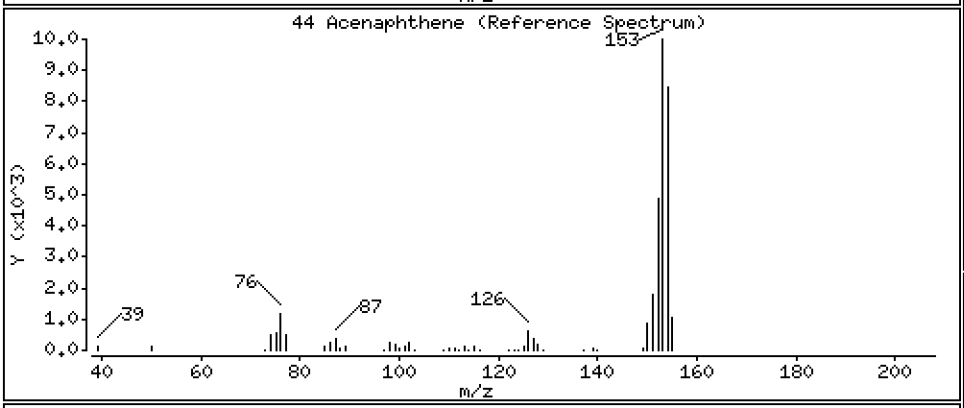
Concentration: 0.04893 ug/mL

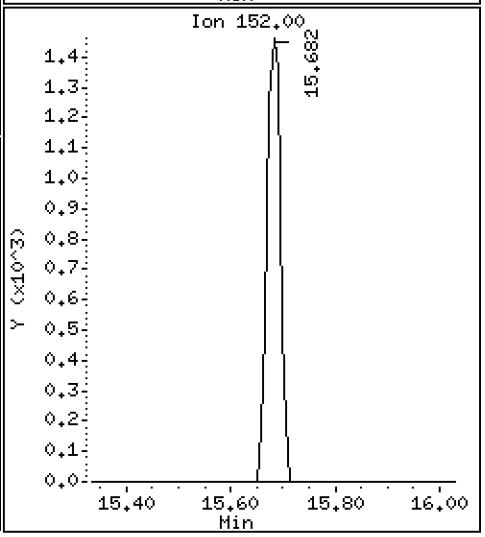


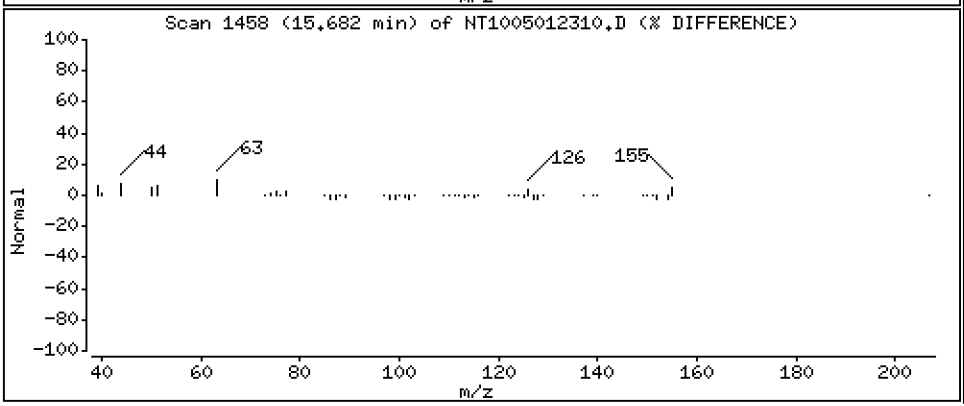












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

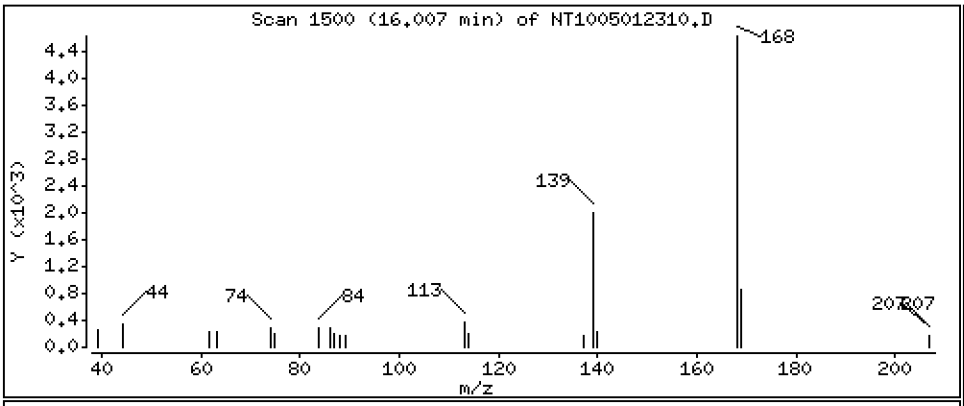
Operator: VTS

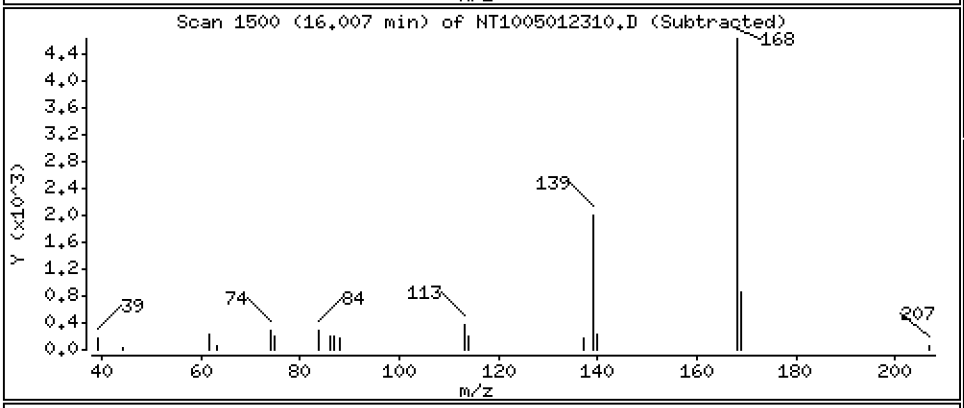
Column phase: ZB-5msi

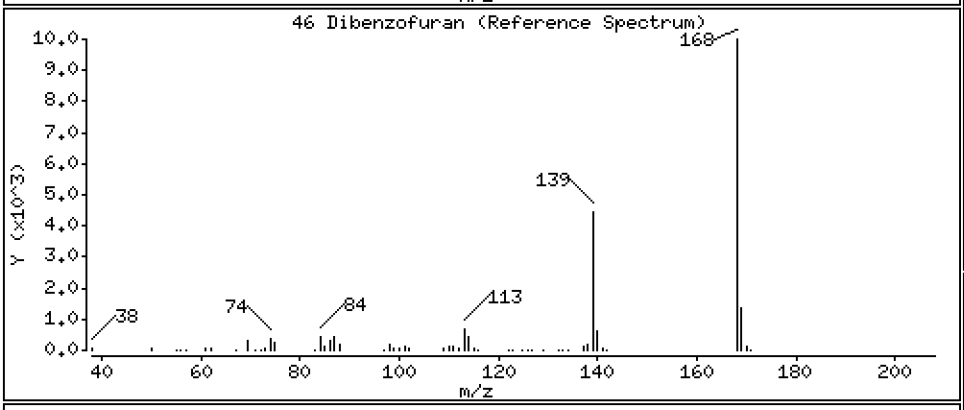
Column diameter: 0.25

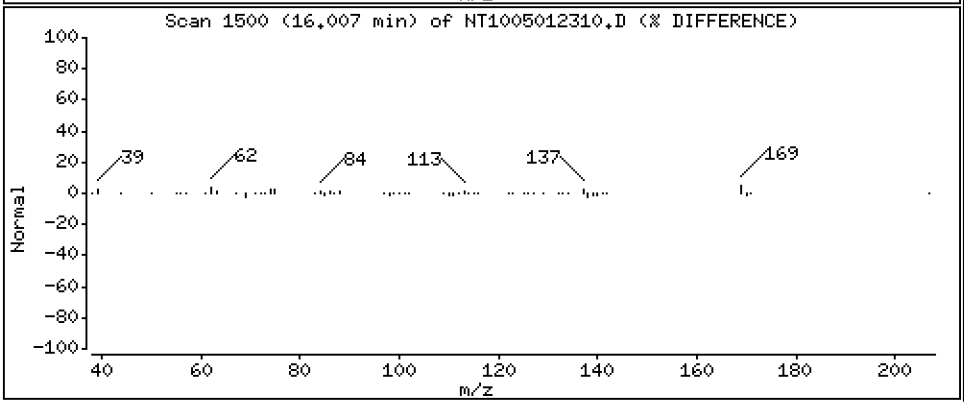
46 Dibenzofuran

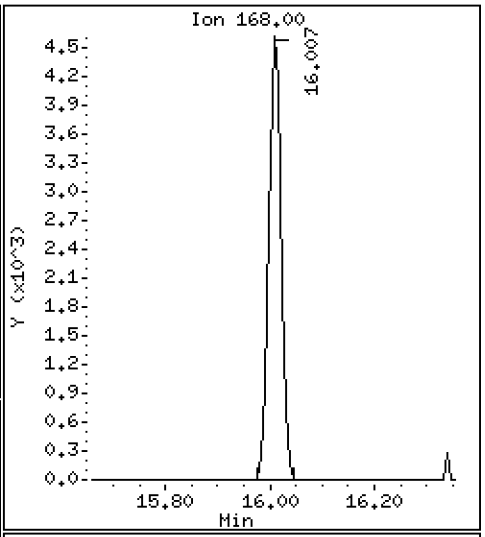
Concentration: 0.04966 ug/mL

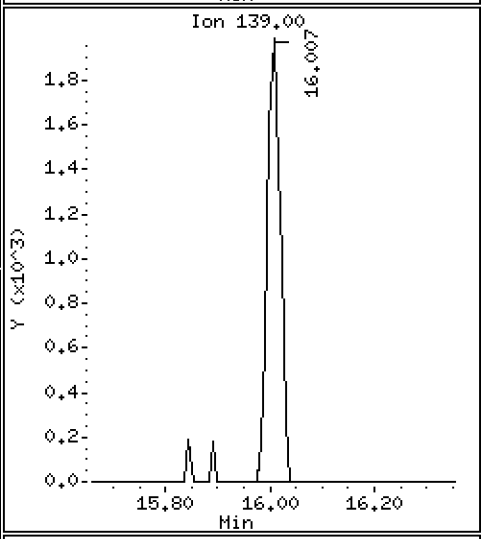


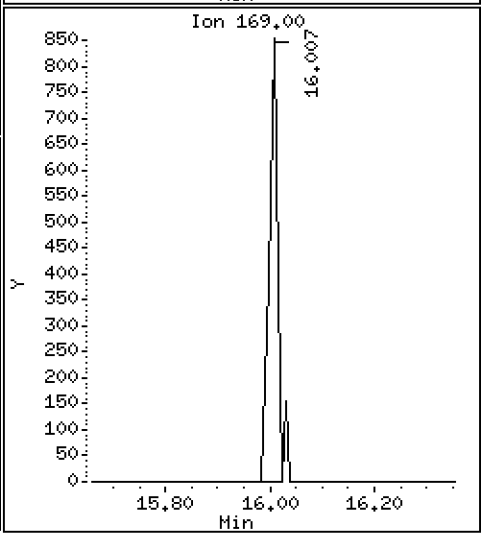












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

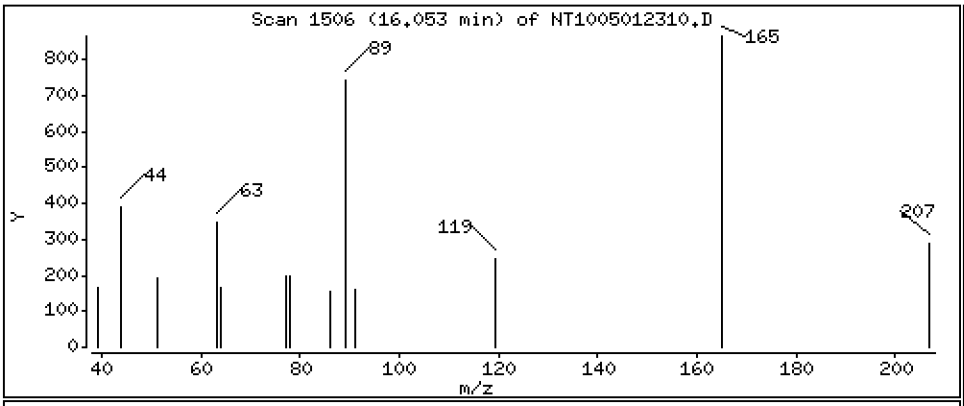
Operator: VTS

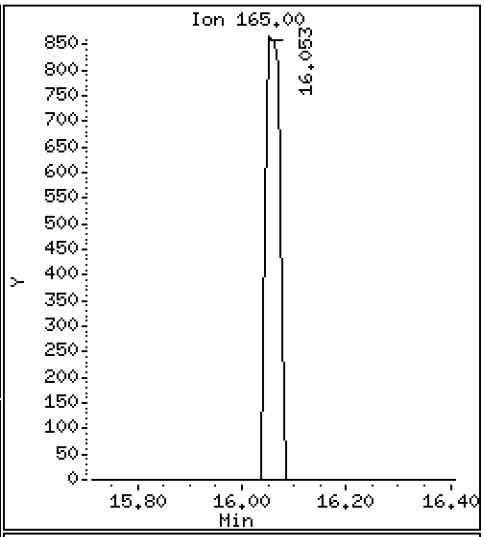
Column phase: ZB-5msi

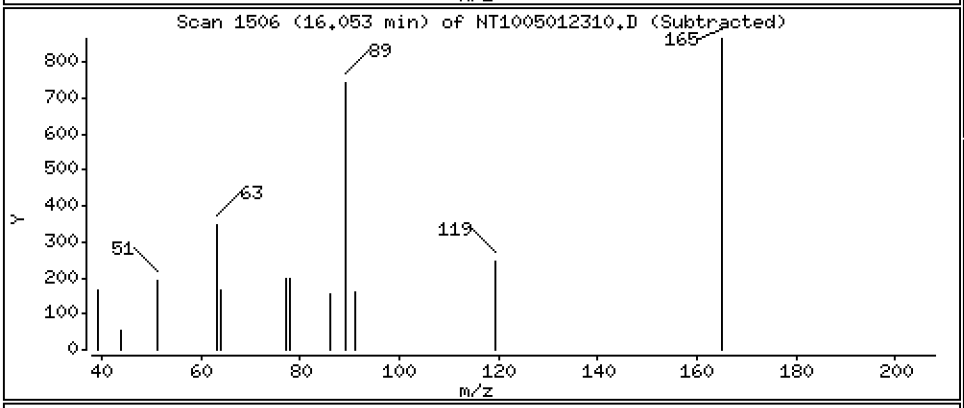
Column diameter: 0.25

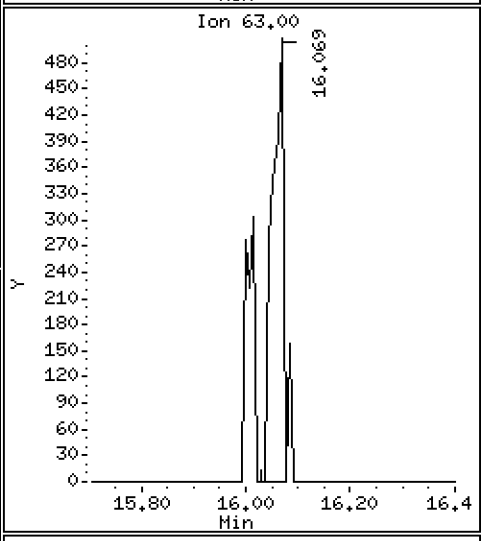
48 2,4-Dinitrotoluene

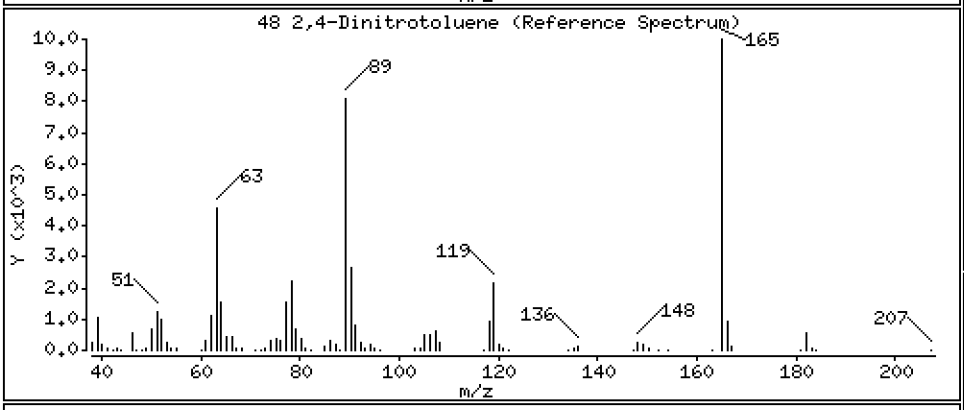
Concentration: 0.04297 ug/mL

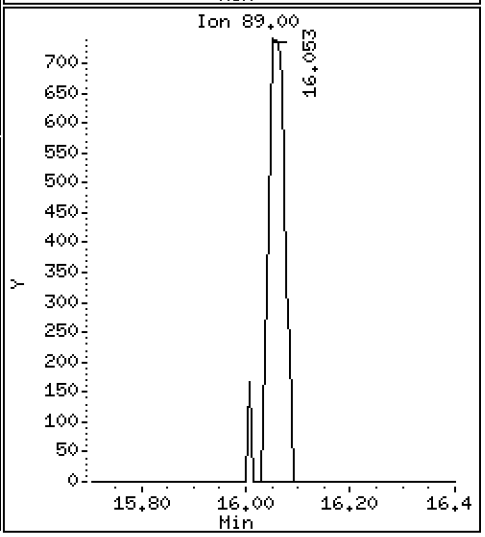


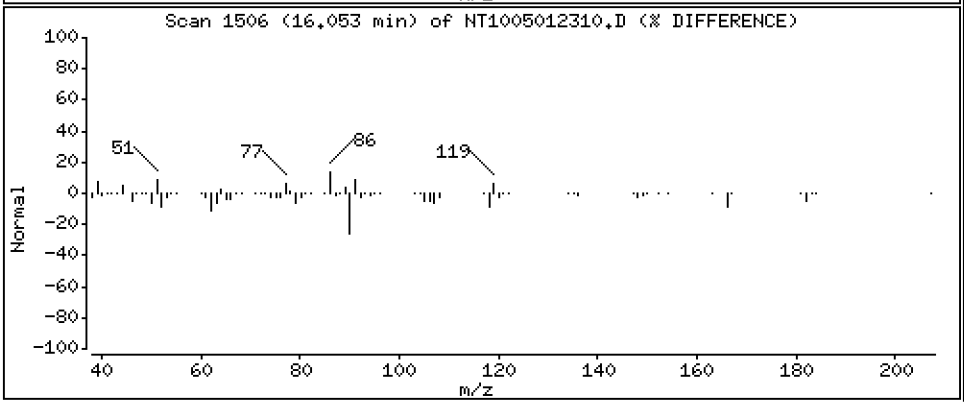












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

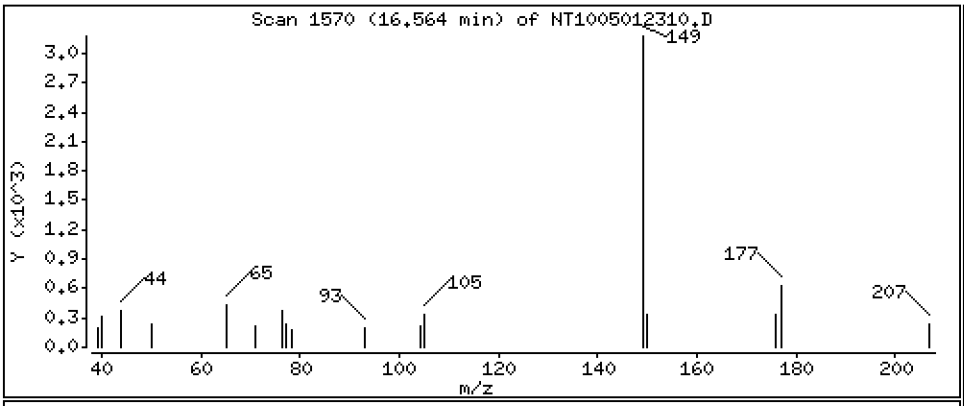
Operator: VTS

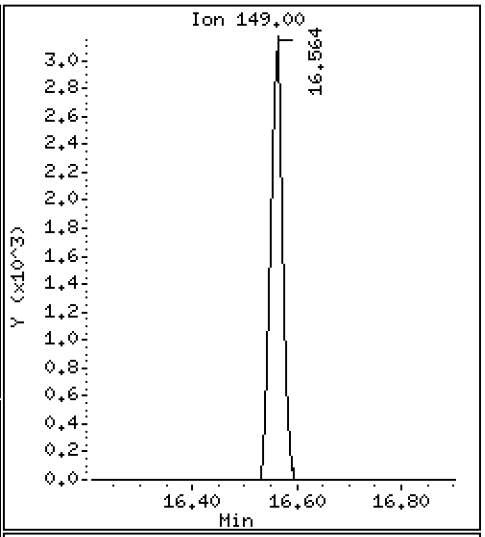
Column phase: ZB-5msi

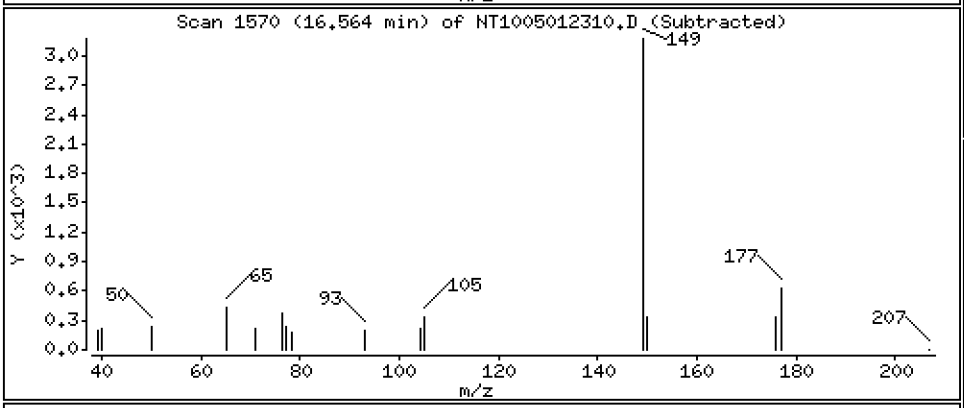
Column diameter: 0.25

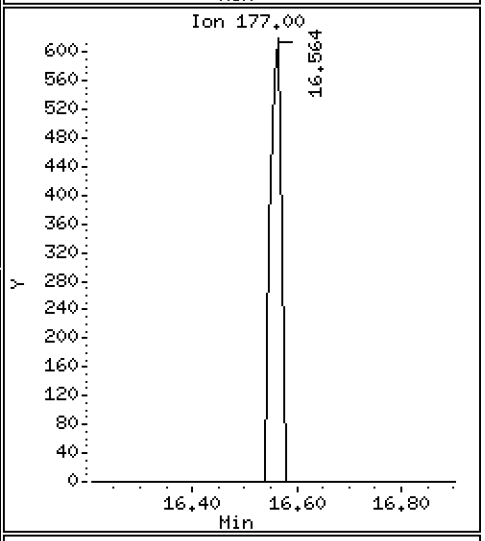
50 Diethylphthalate

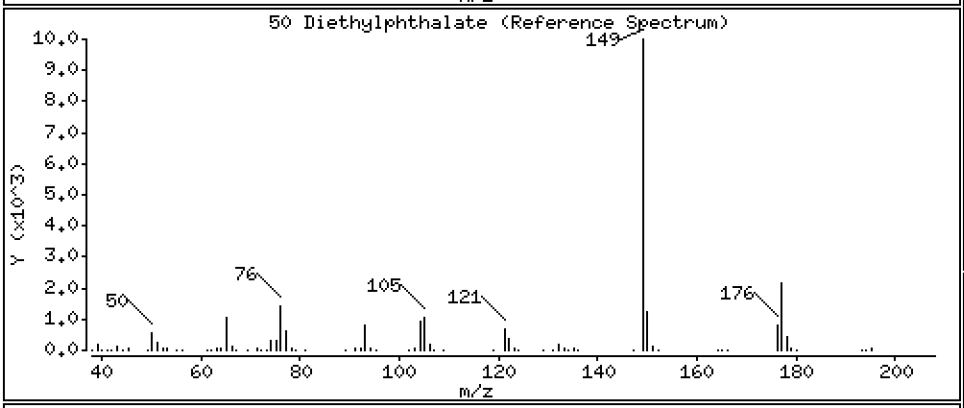
Concentration: 0.04128 ug/mL

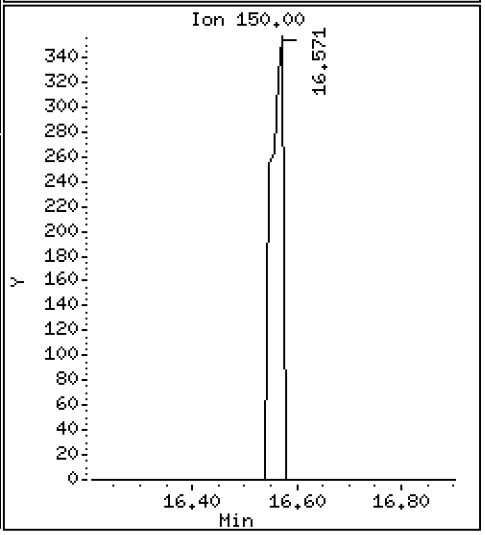


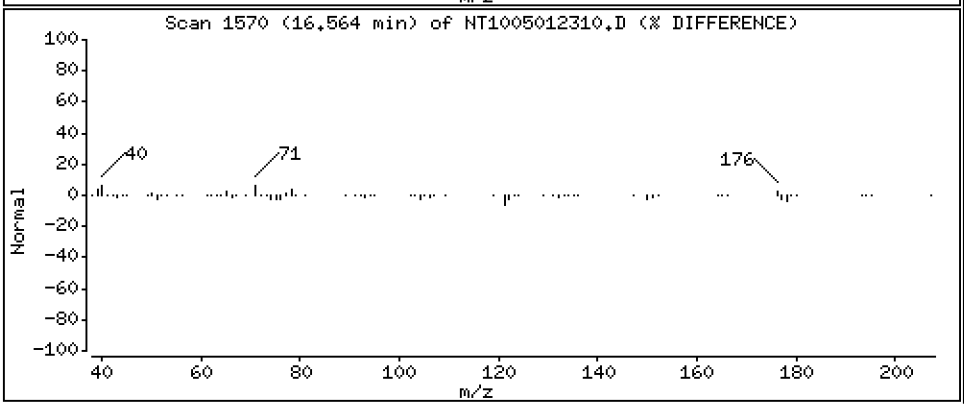












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

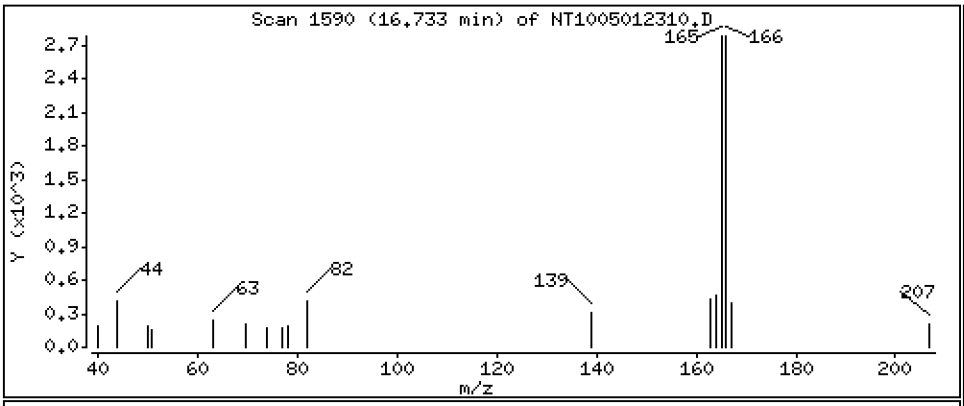
Operator: VTS

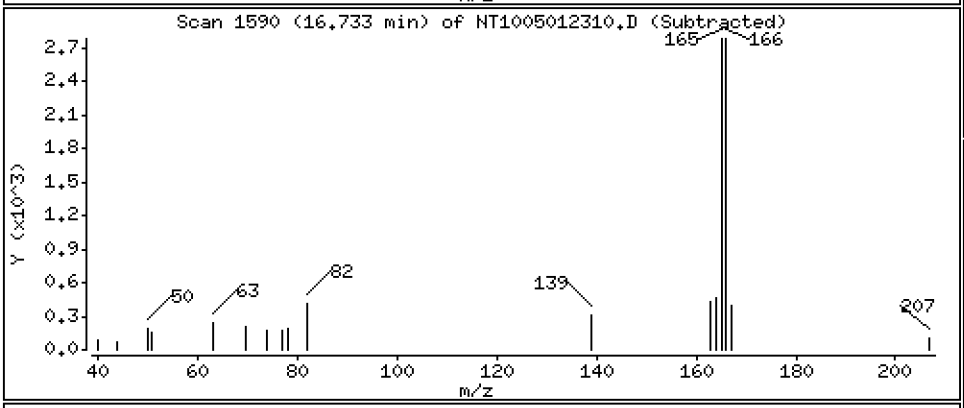
Column phase: ZB-5msi

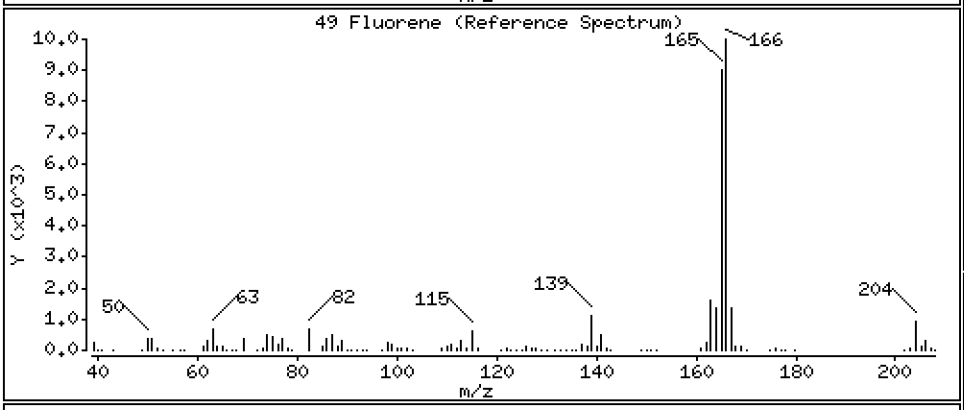
Column diameter: 0.25

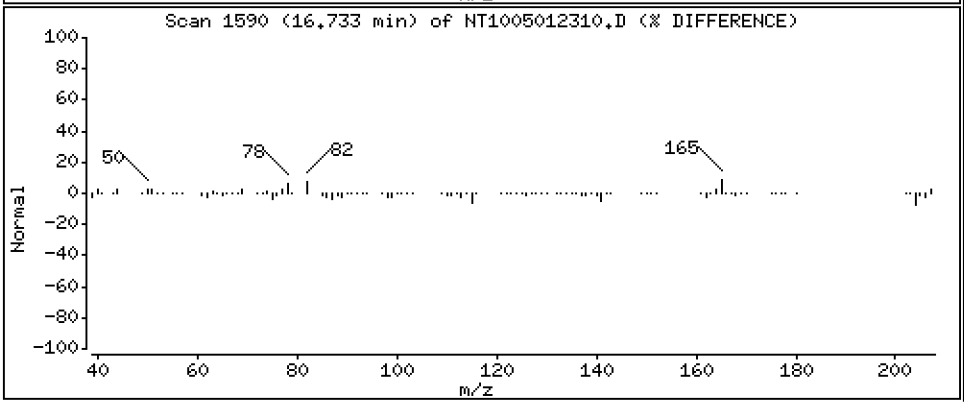
49 Fluorene

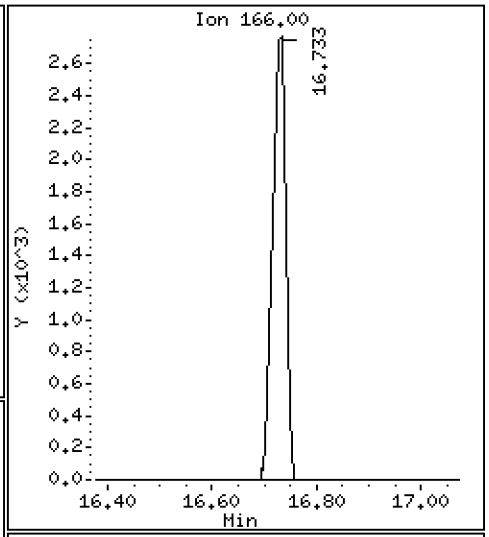
Concentration: 0.04063 ug/mL

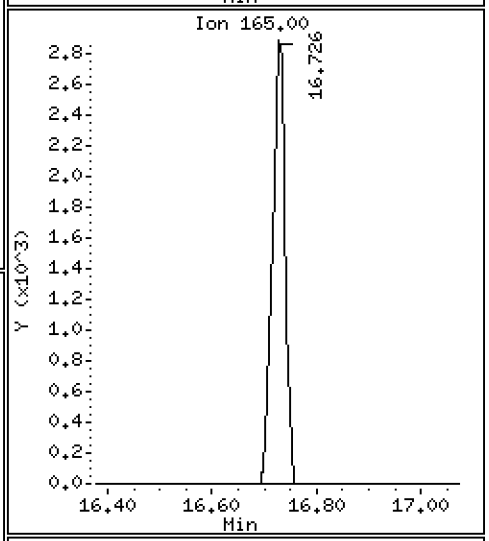


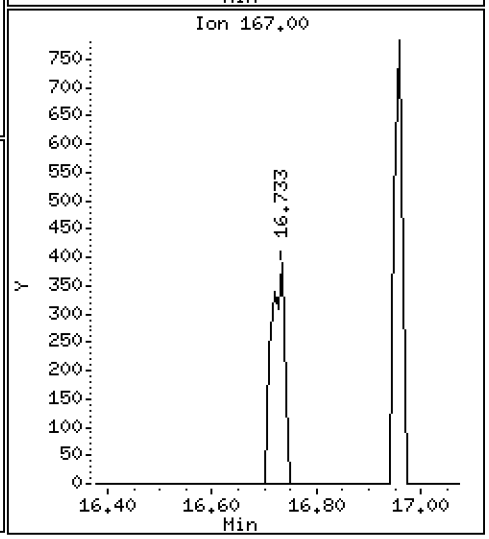












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

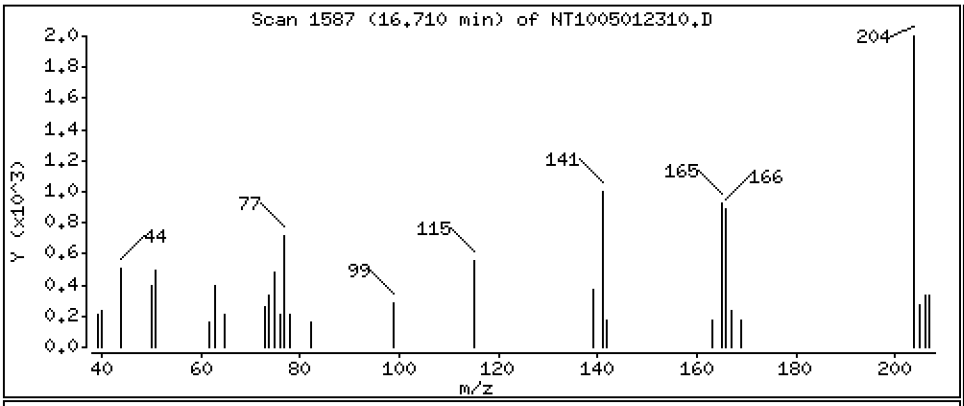
Operator: VTS

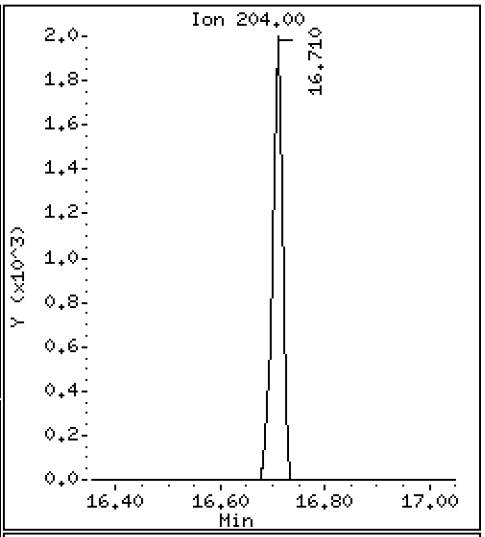
Column phase: ZB-5msi

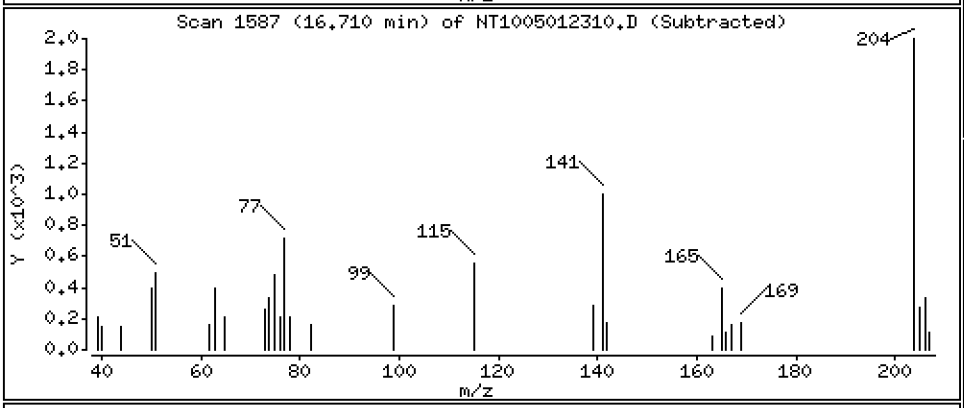
Column diameter: 0.25

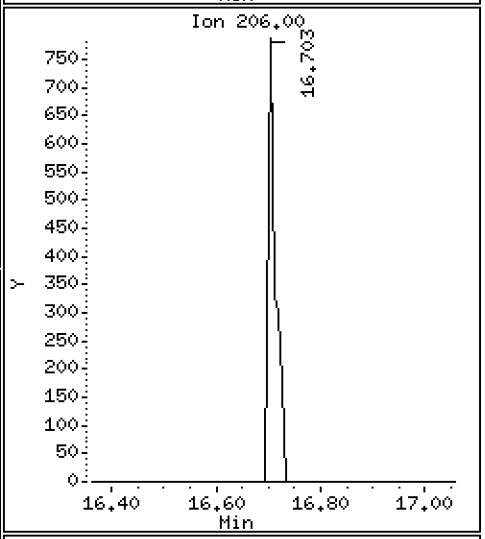
51 4-Chlorophenyl-phenylether

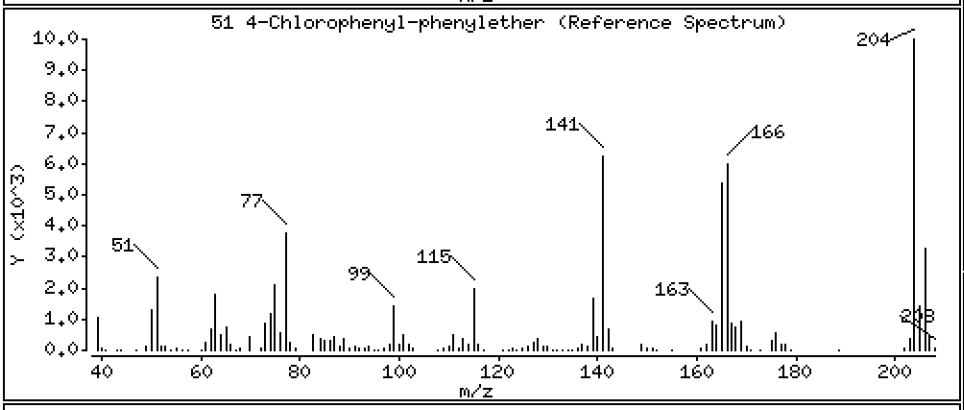
Concentration: 0.04519 ug/mL

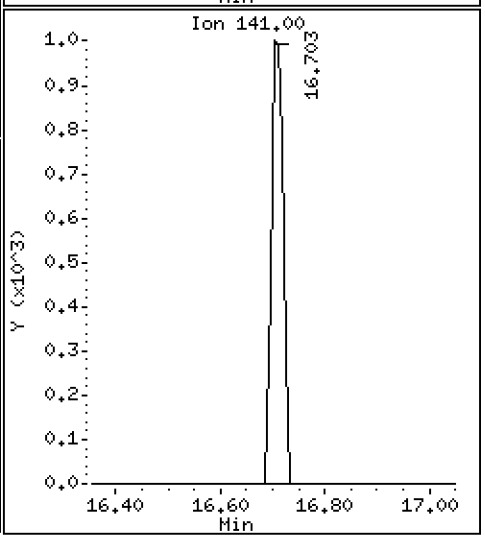


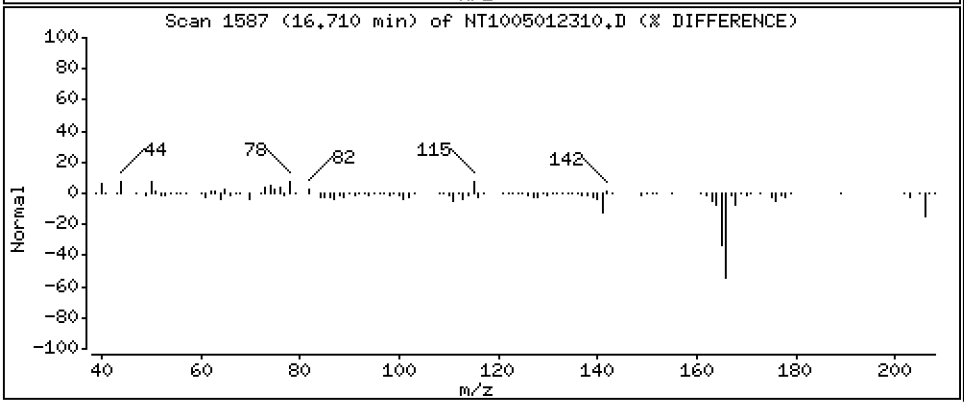












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

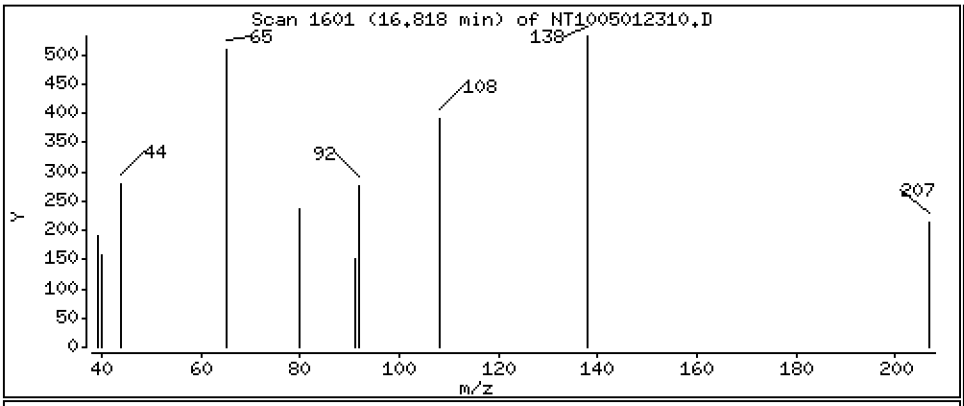
Operator: VTS

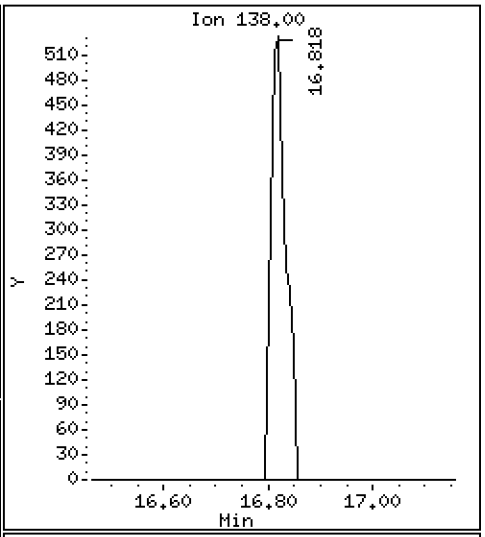
Column phase: ZB-5msi

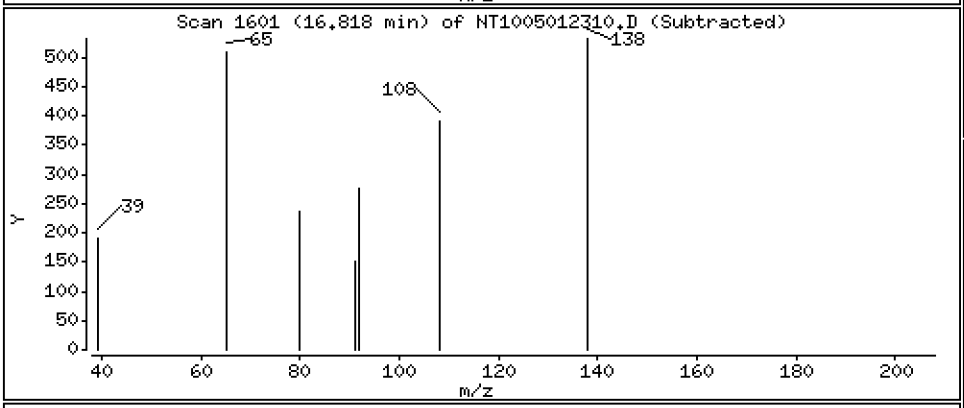
Column diameter: 0.25

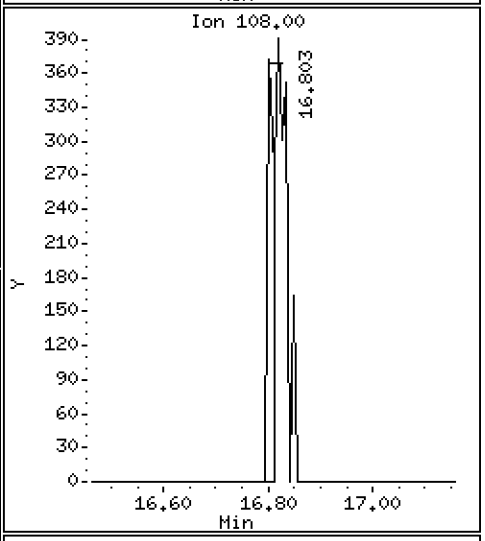
52 4-Nitroaniline

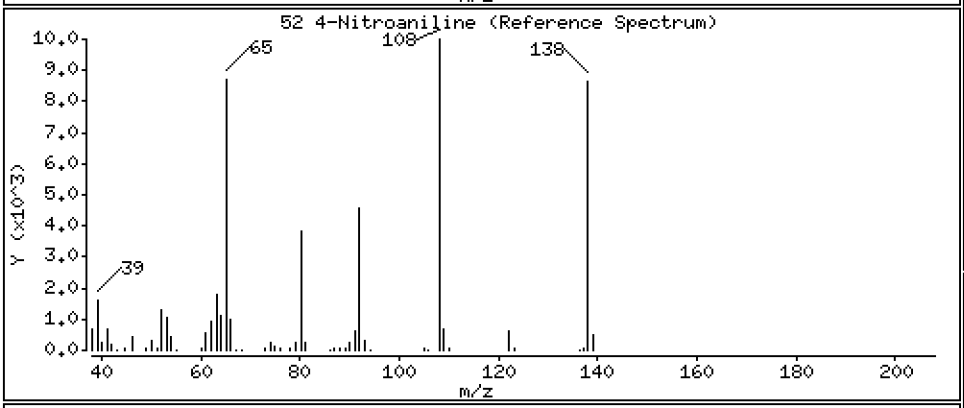
Concentration: 0.04301 ug/mL

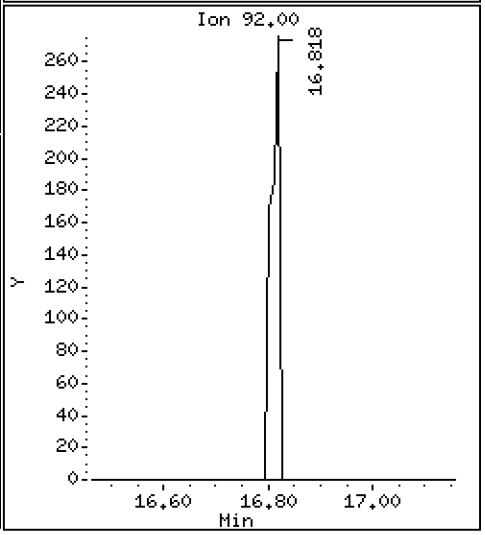


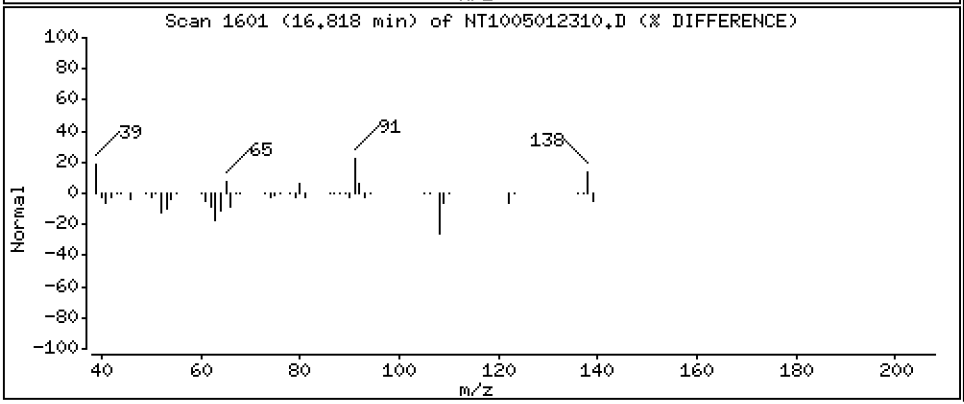












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

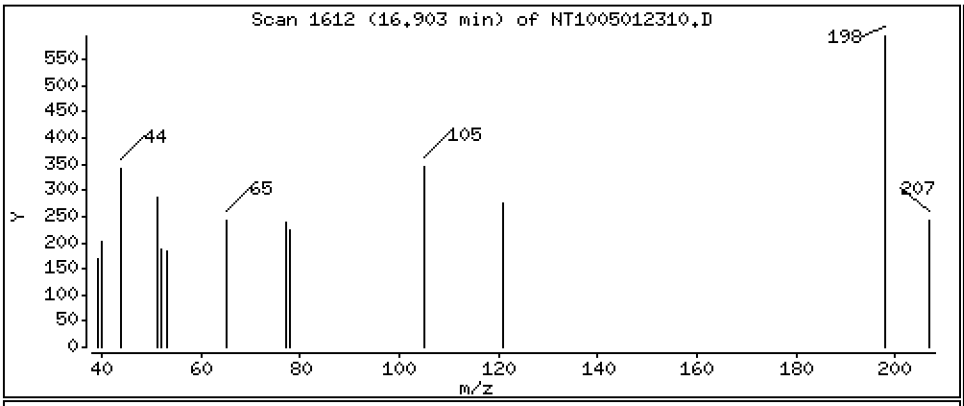
Operator: VTS

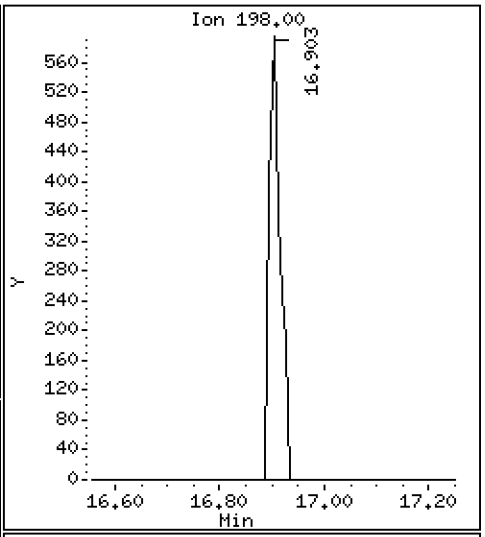
Column phase: ZB-5msi

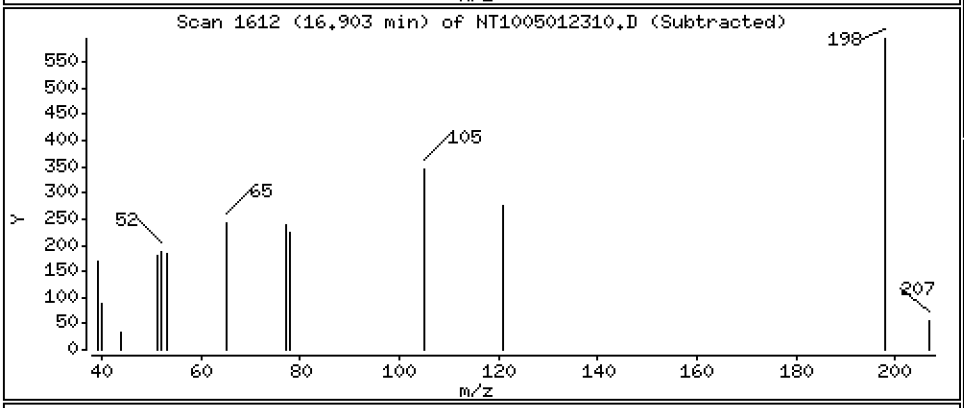
Column diameter: 0.25

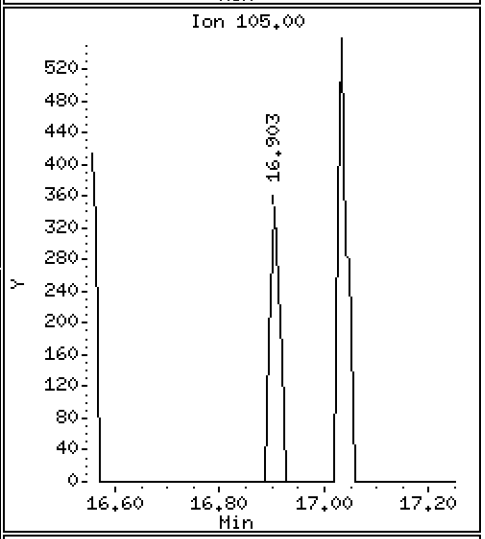
53 4,6-Dinitro-2-methylphenol

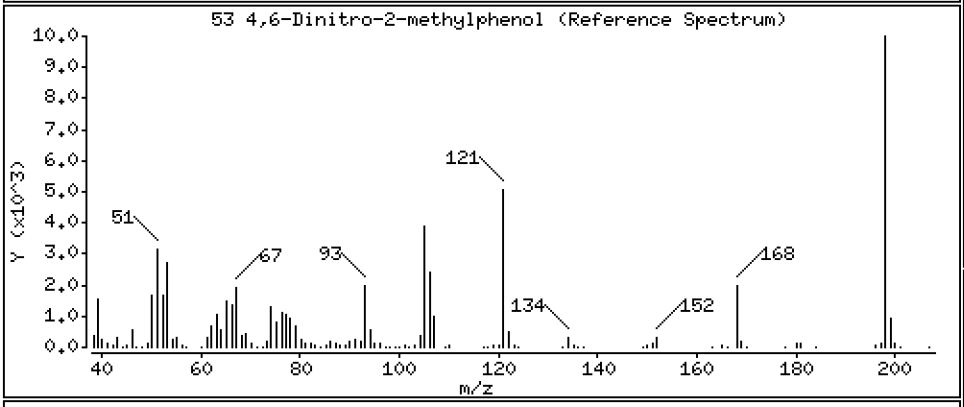
Concentration: 0.03962 ug/mL

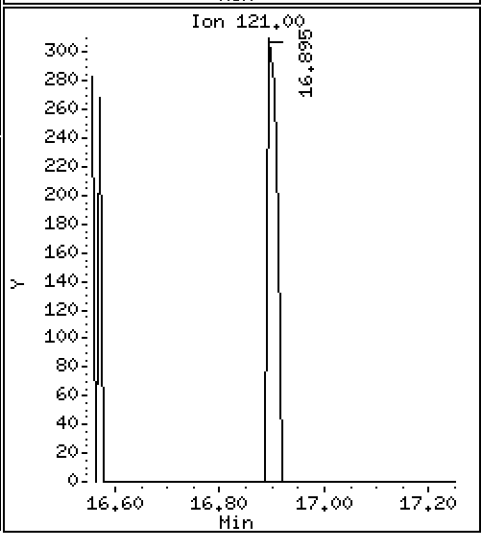


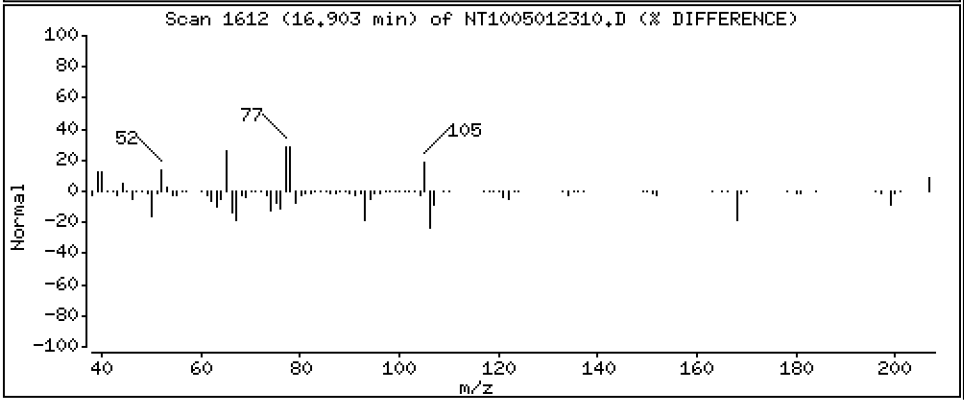












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

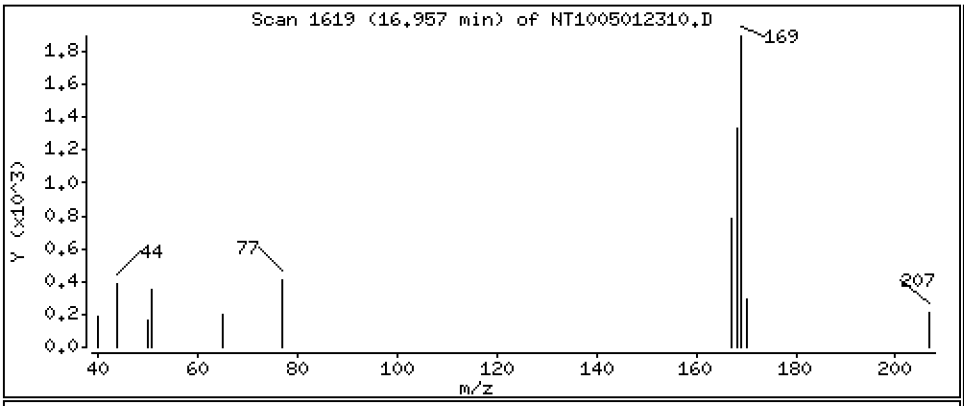
Operator: VTS

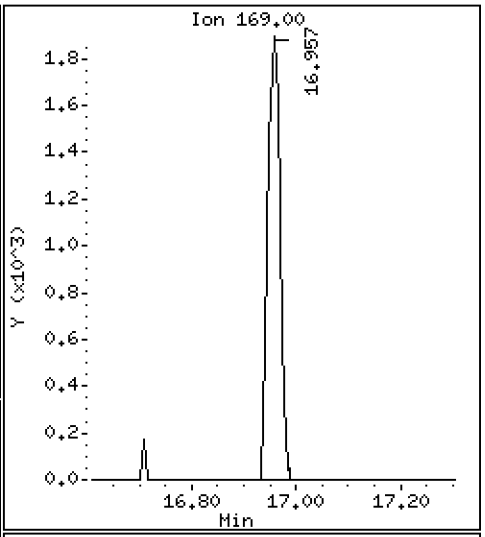
Column phase: ZB-5msi

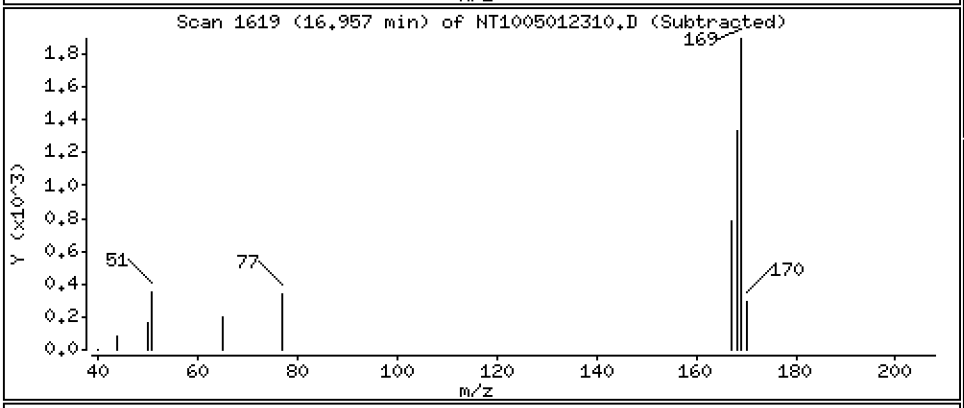
Column diameter: 0.25

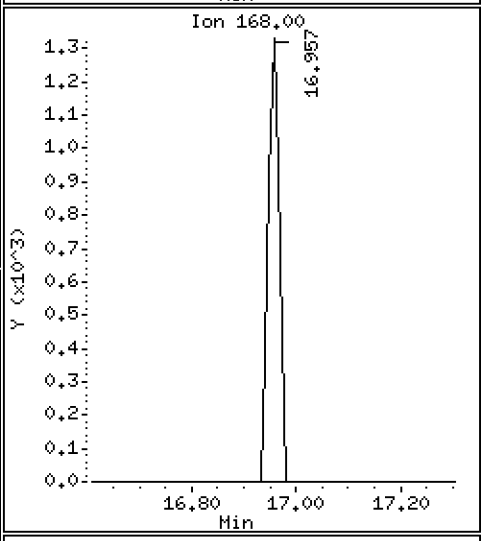
54 N-Nitrosodiphenylamine

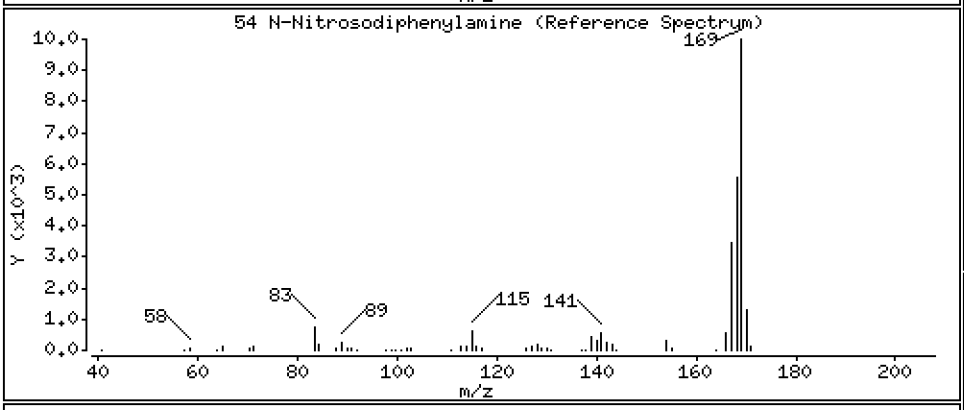
Concentration: 0.04146 ug/mL

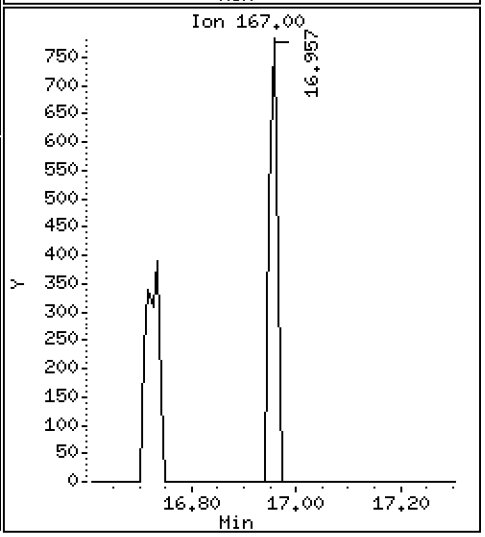


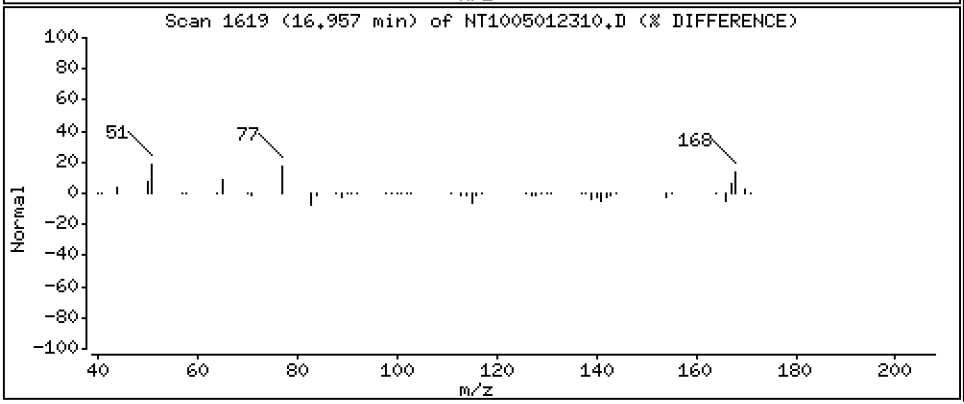












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

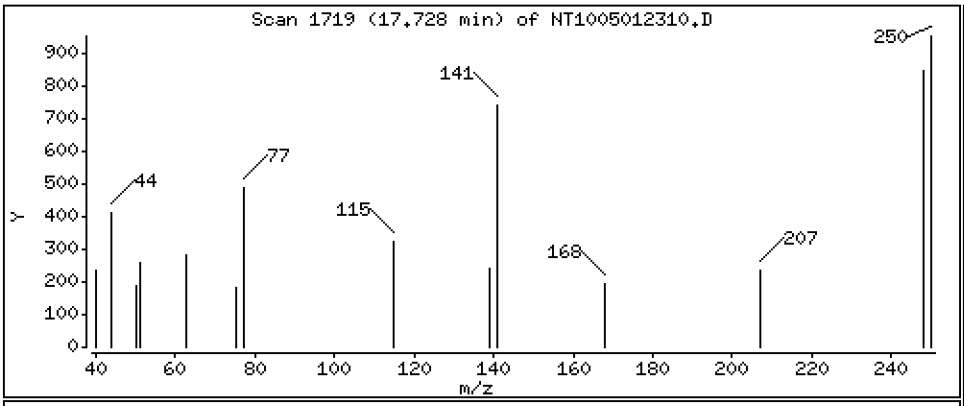
Operator: VTS

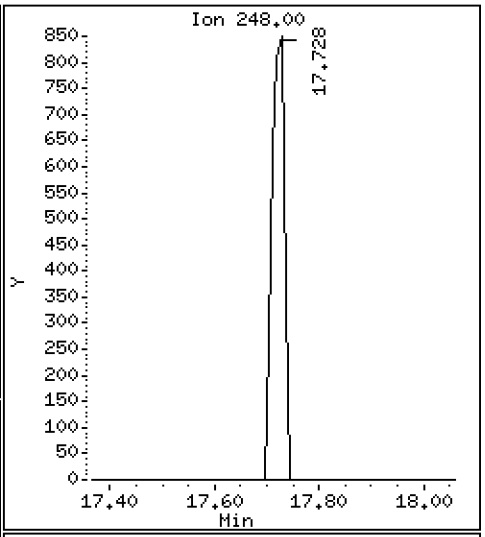
Column phase: ZB-5msi

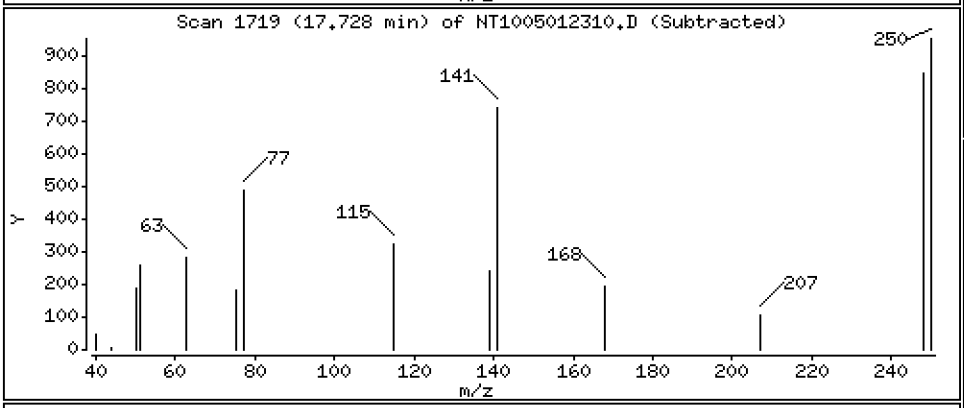
Column diameter: 0.25

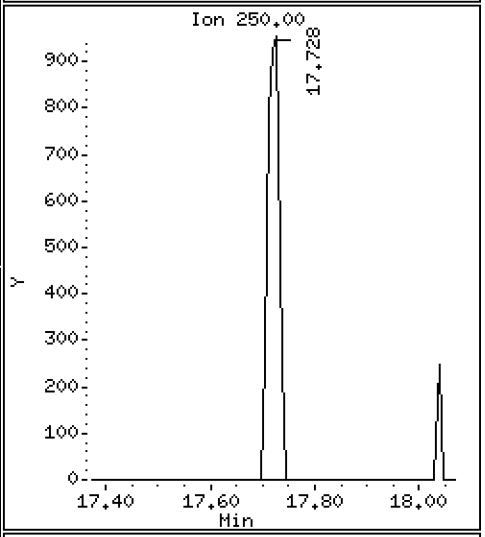
56 4-Bromophenyl-phenylether

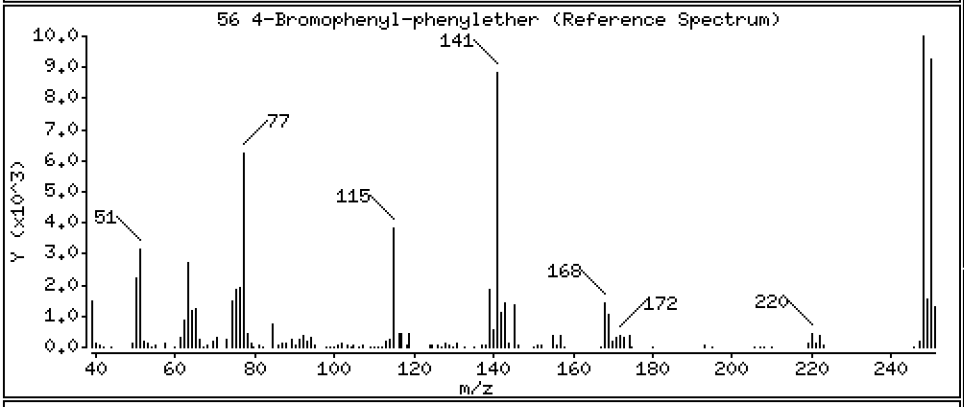
Concentration: 0.04030 ug/mL

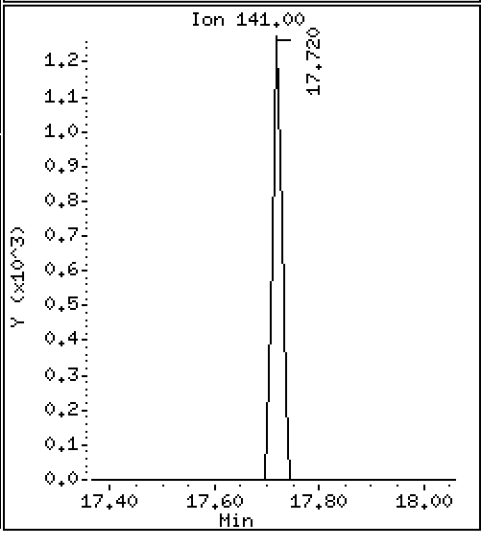


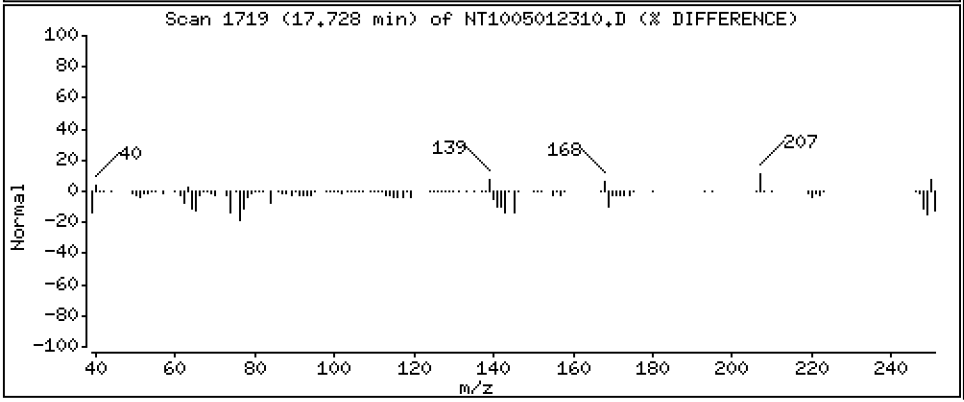












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

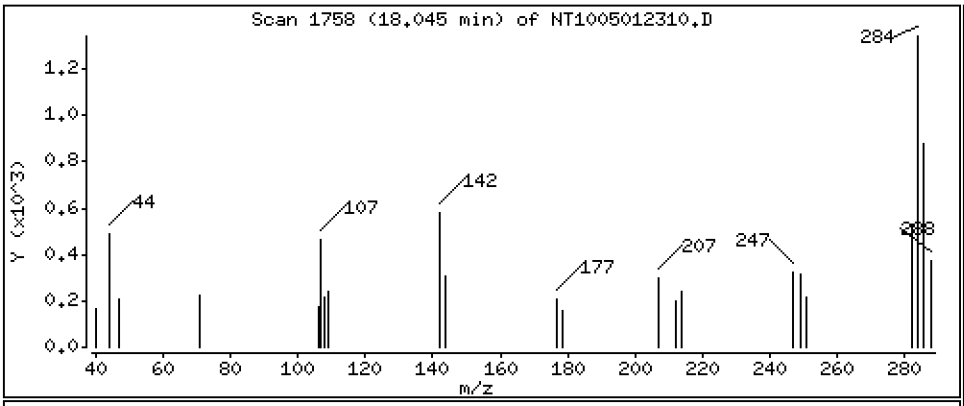
Operator: VTS

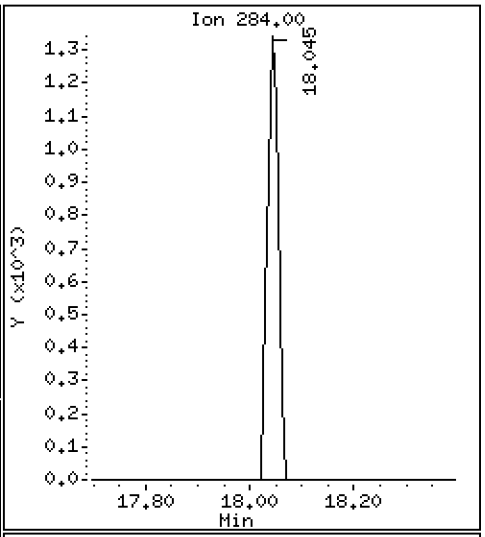
Column phase: ZB-5msi

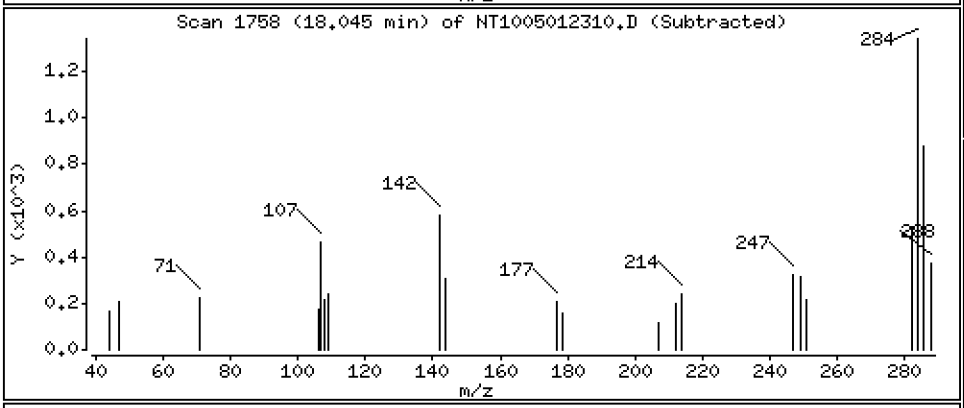
Column diameter: 0.25

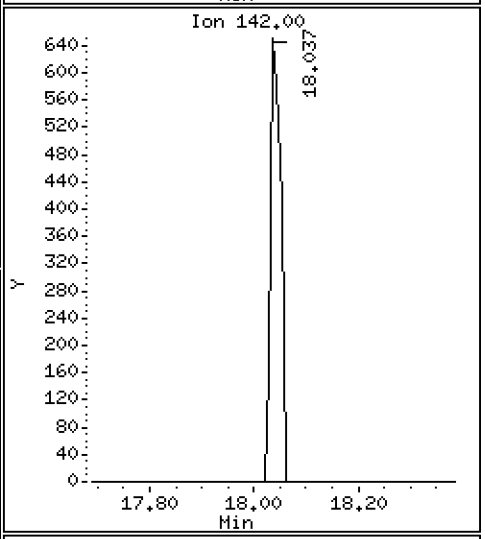
57 Hexachlorobenzene

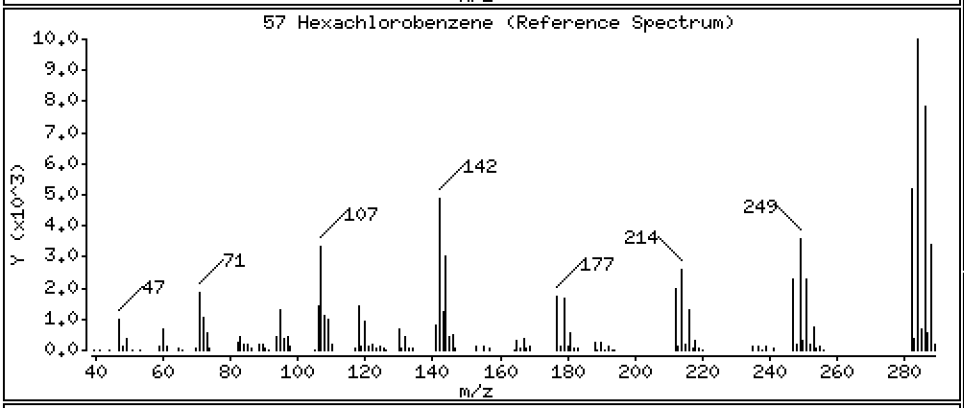
Concentration: 0.05862 ug/mL

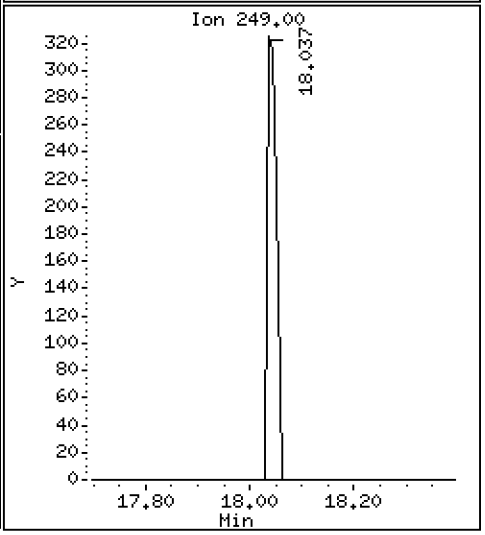


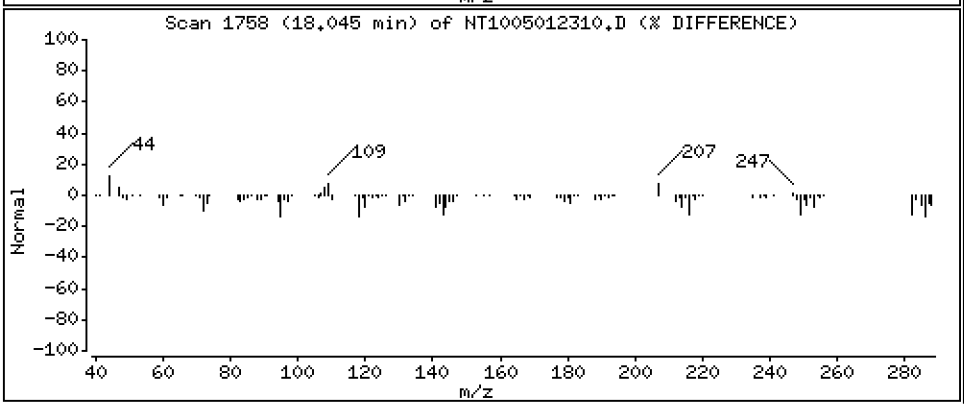












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

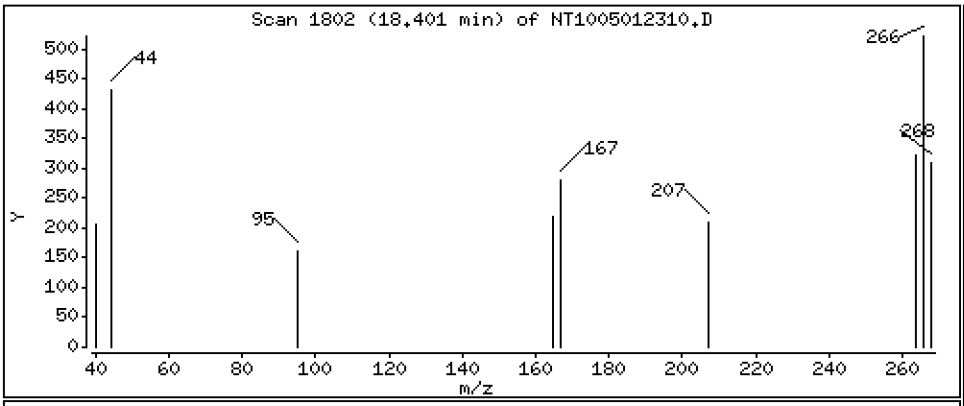
Operator: VTS

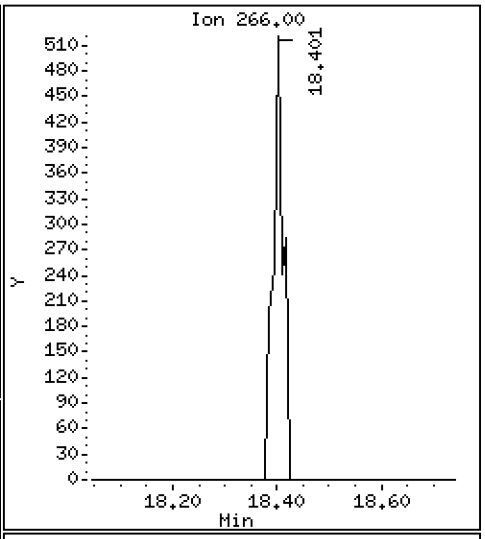
Column phase: ZB-5msi

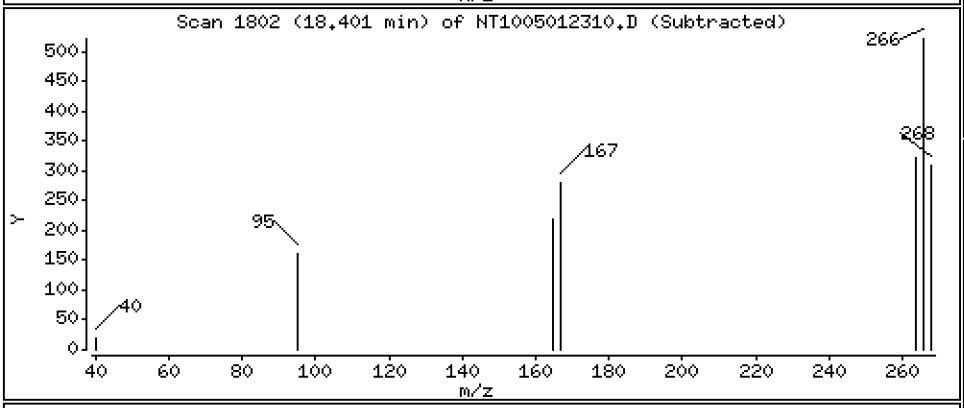
Column diameter: 0.25

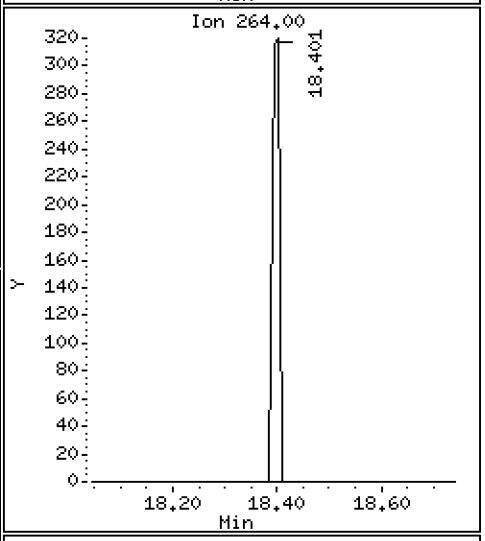
58 Pentachlorophenol

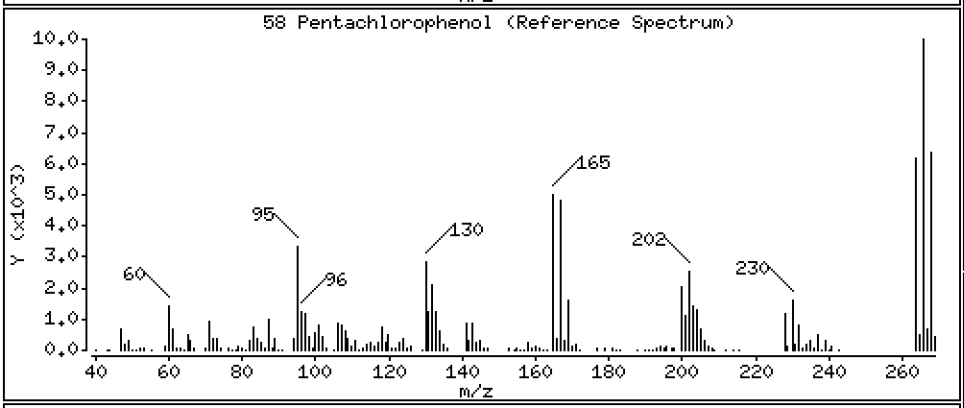
Concentration: 0.03046 ug/mL

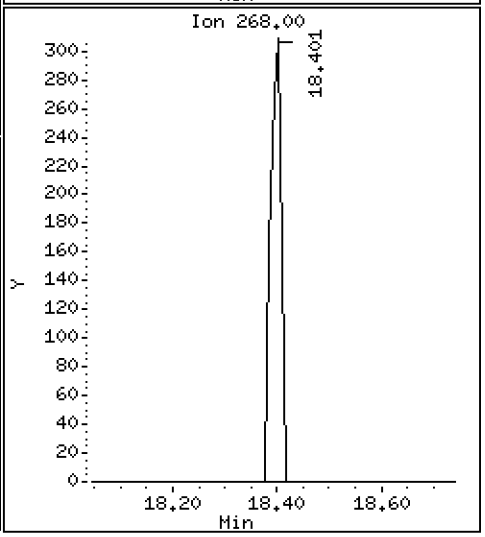


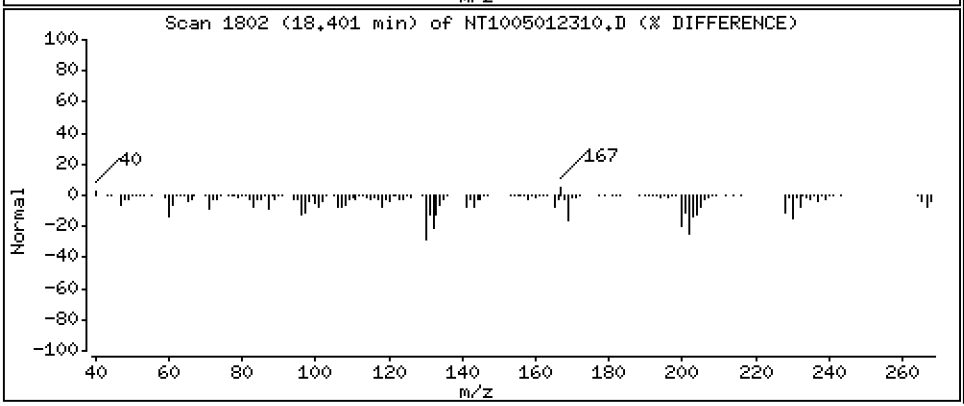












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

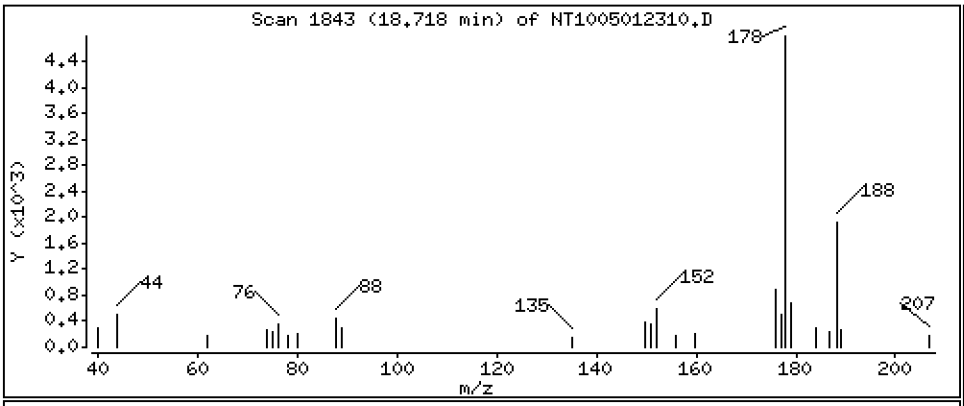
Operator: VTS

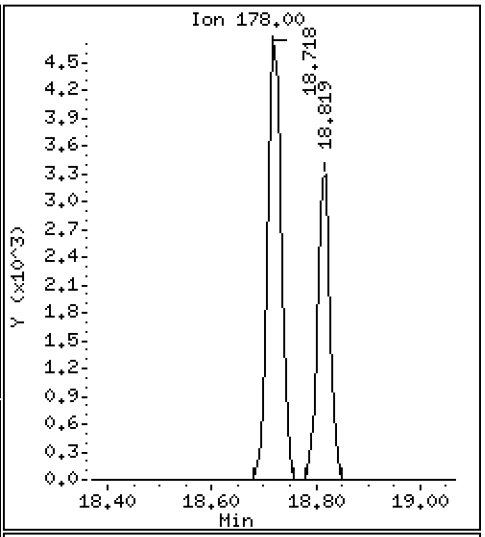
Column phase: ZB-5msi

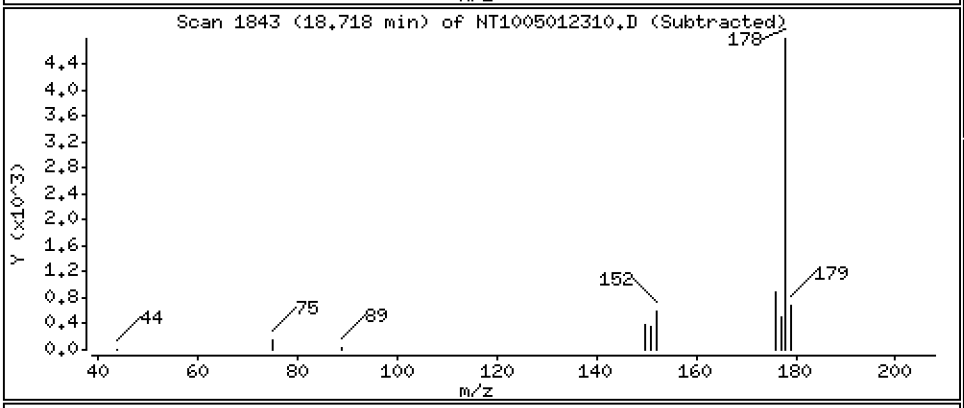
Column diameter: 0.25

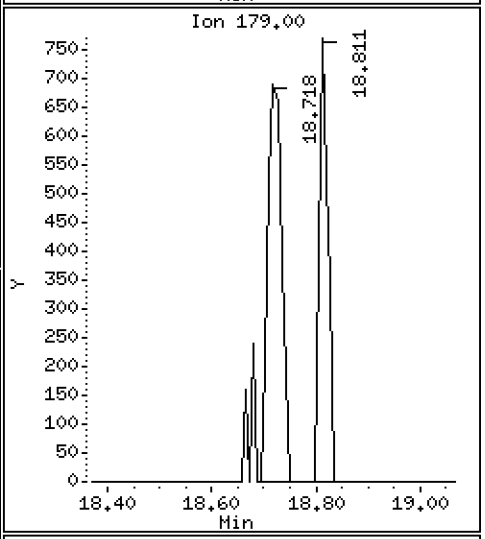
60 Phenanthrene

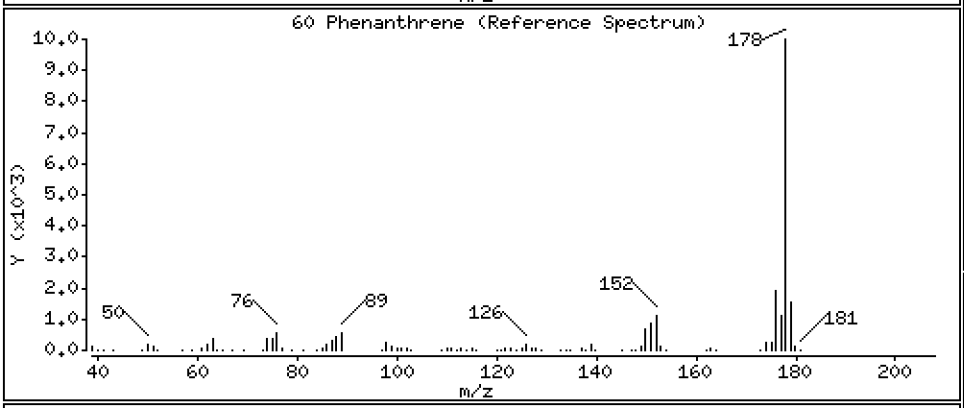
Concentration: 0.05253 ug/mL

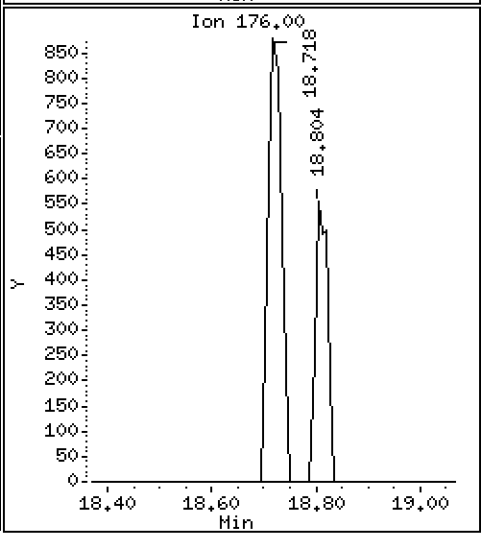


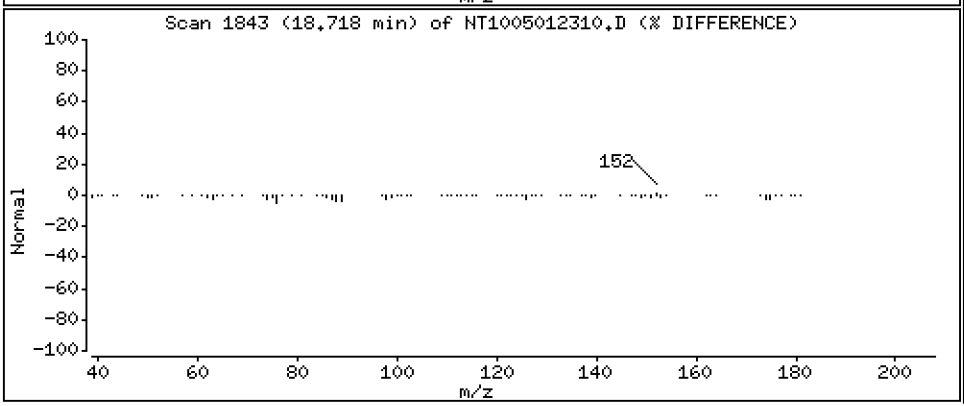












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

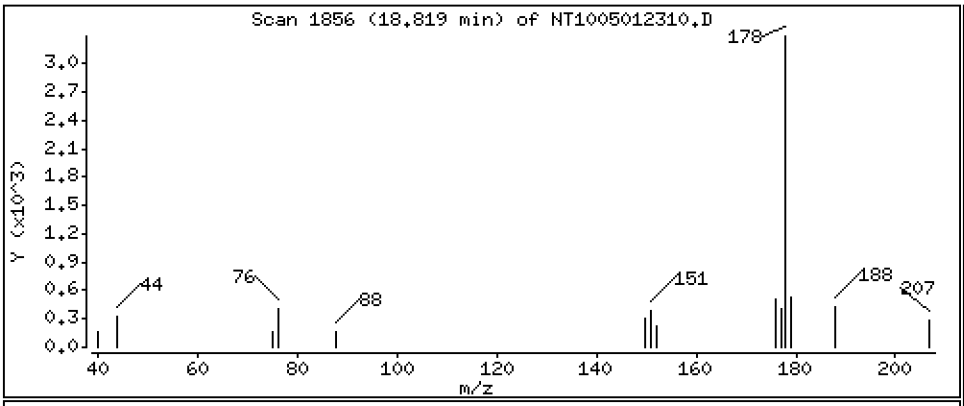
Operator: VTS

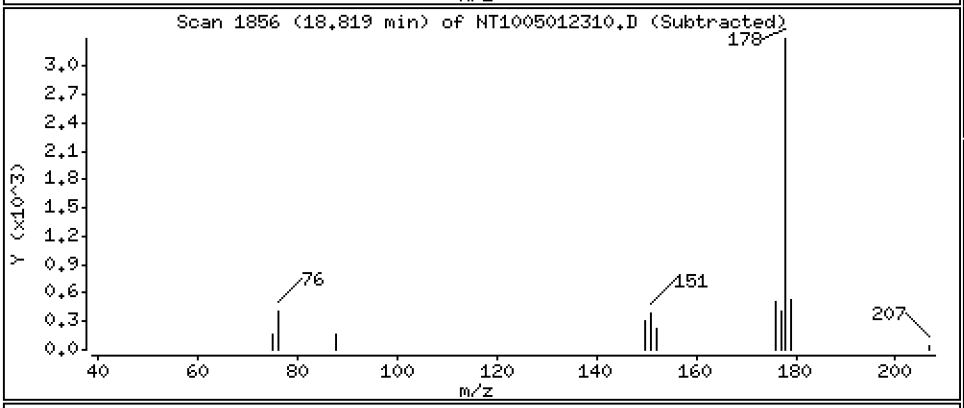
Column phase: ZB-5msi

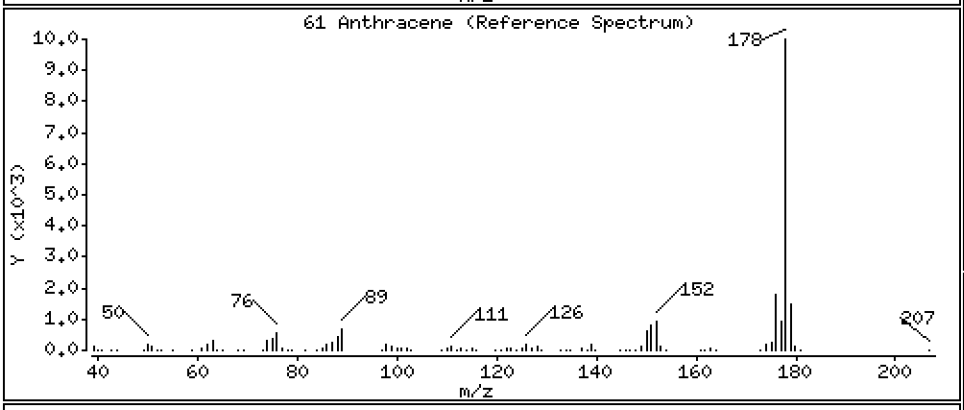
Column diameter: 0.25

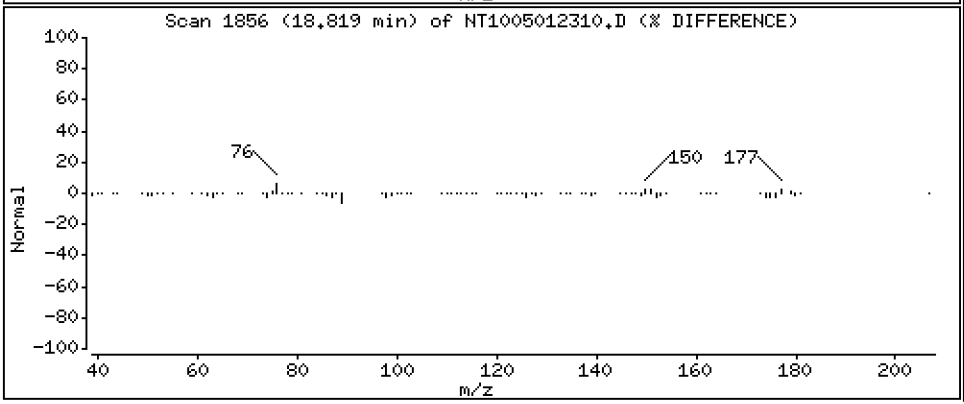
61 Anthracene

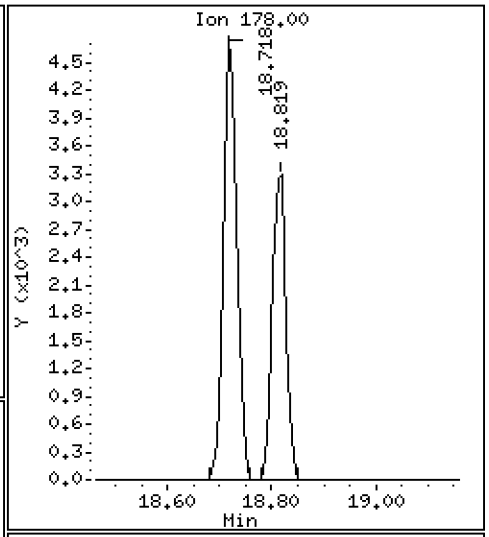
Concentration: 0.03964 ug/mL

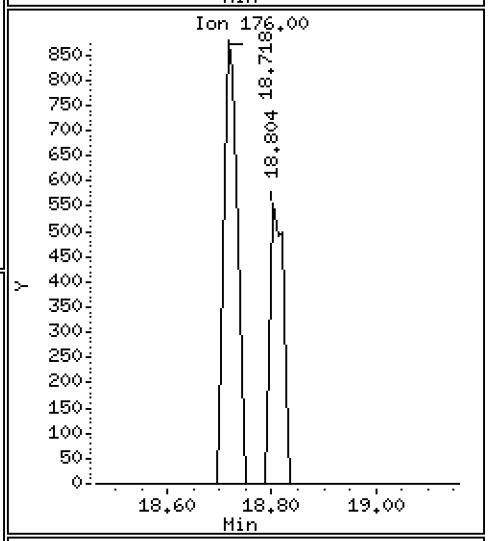


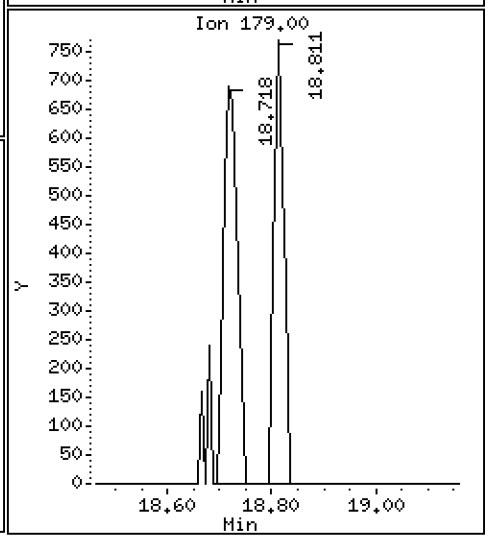












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

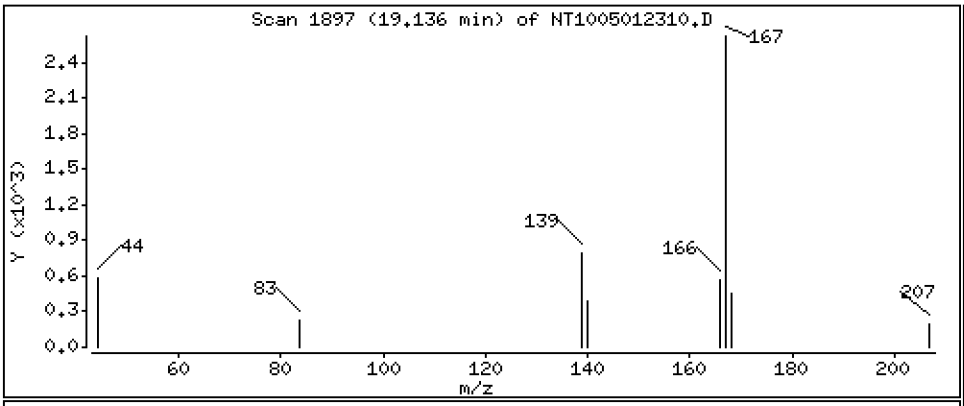
Operator: VTS

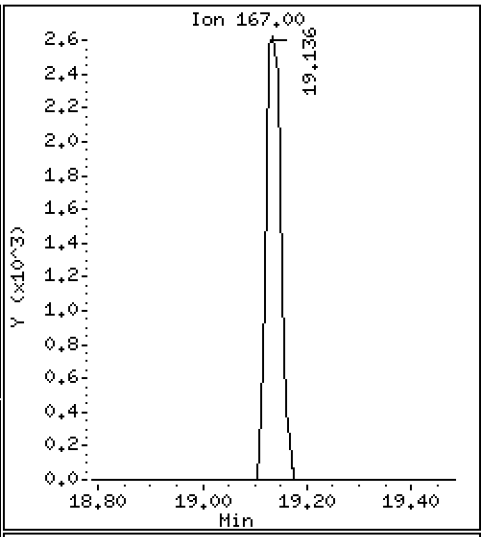
Column phase: ZB-5msi

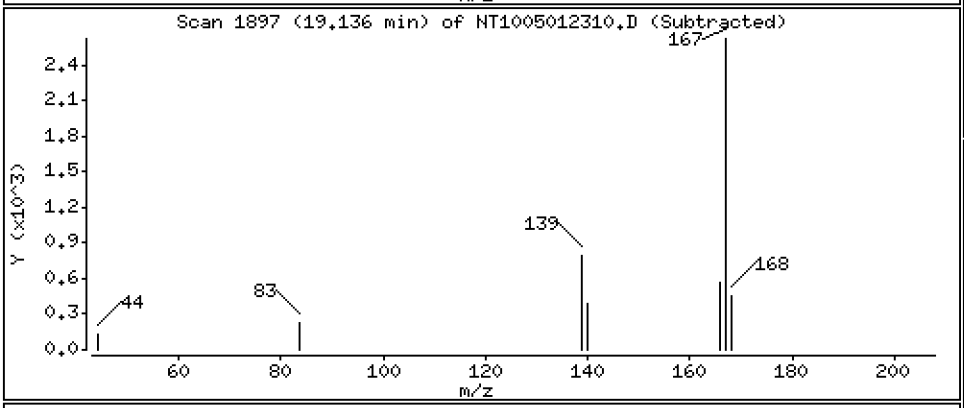
Column diameter: 0.25

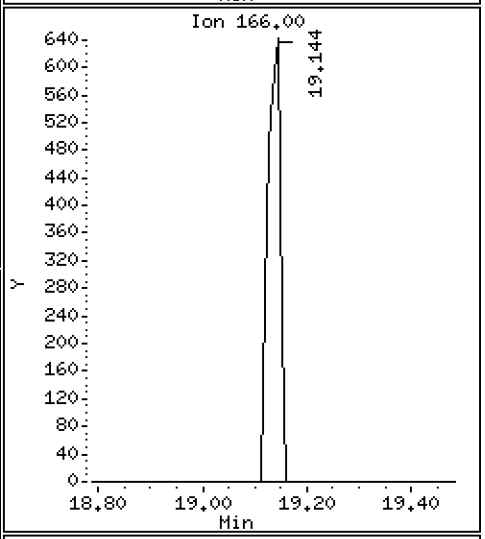
62 Carbazole

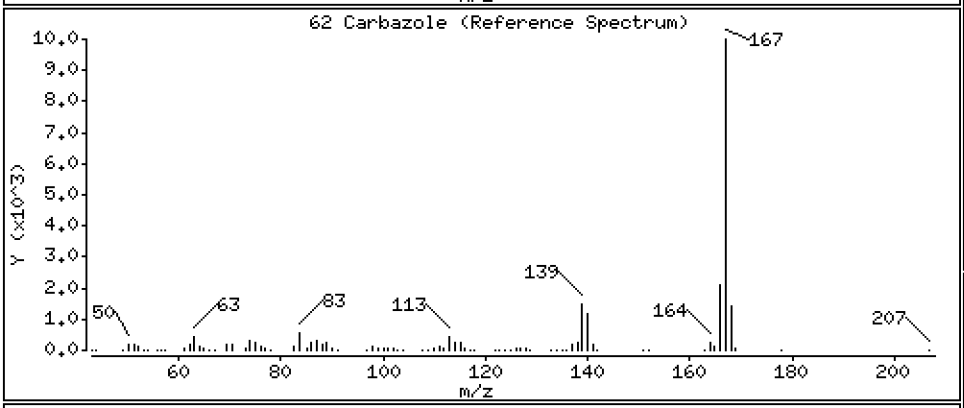
Concentration: 0.03951 ug/mL

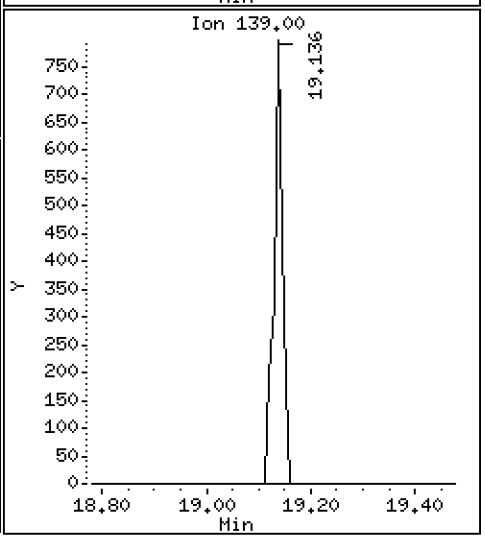


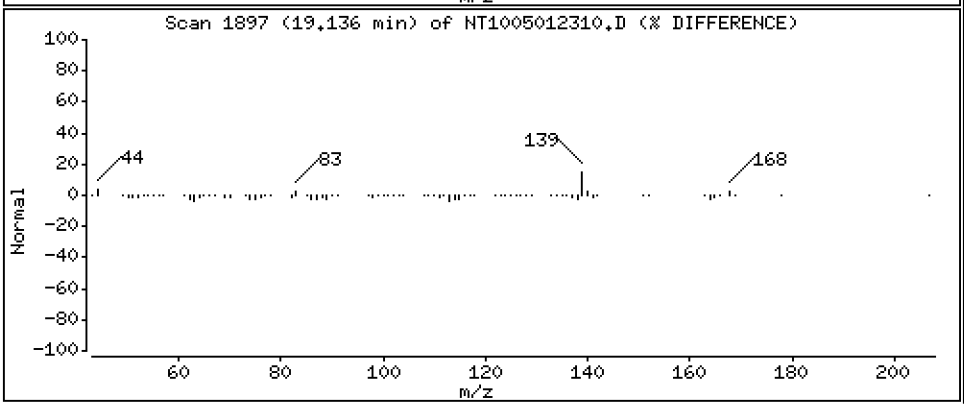












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

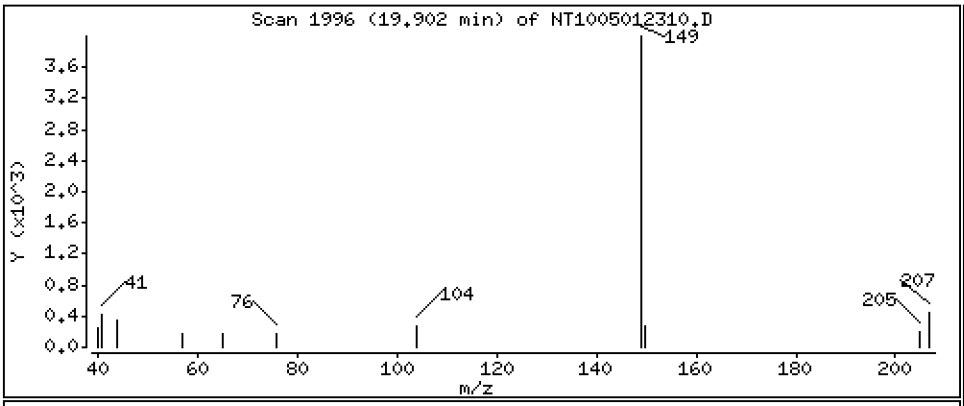
Operator: VTS

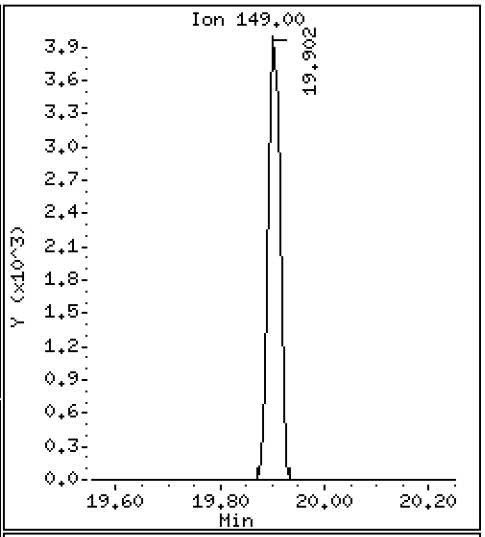
Column phase: ZB-5msi

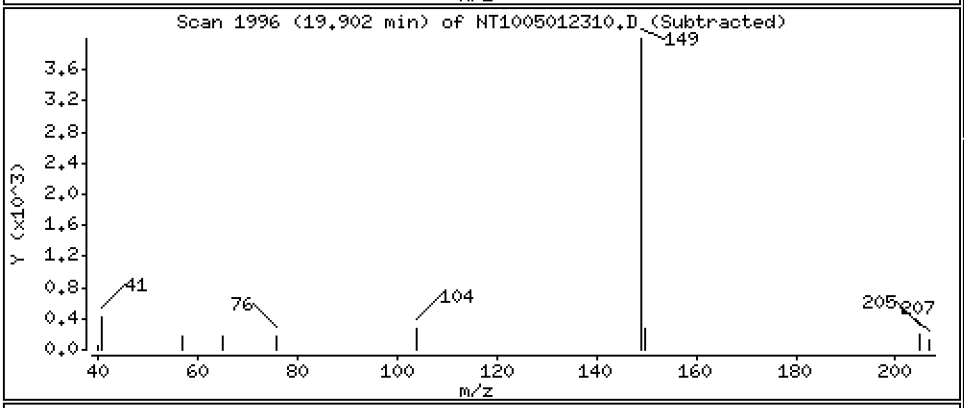
Column diameter: 0.25

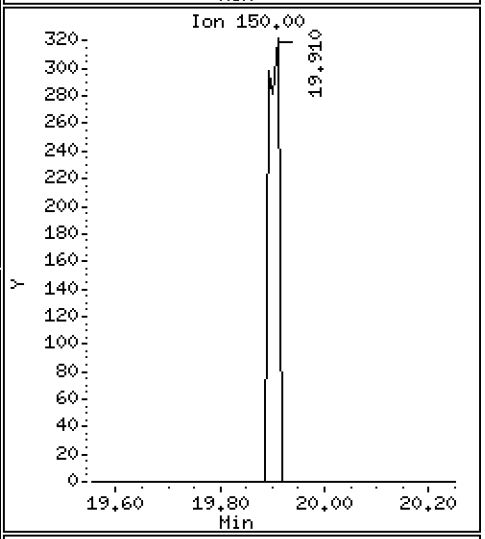
63 Di-n-butylphthalate

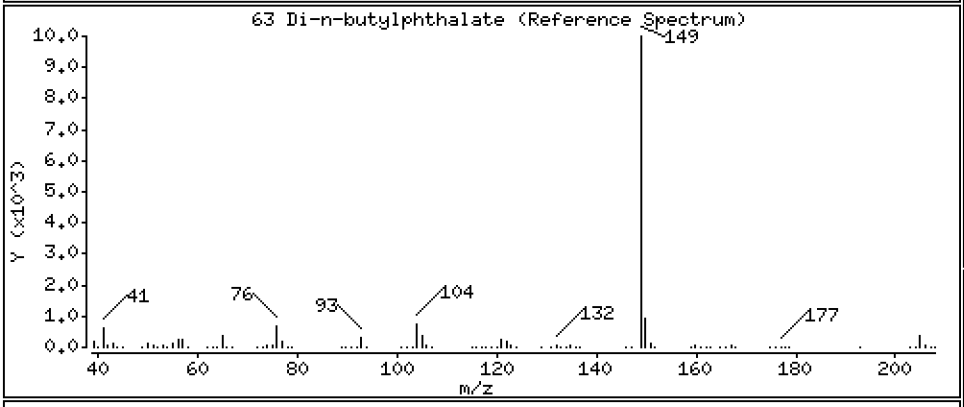
Concentration: 0.03123 ug/mL

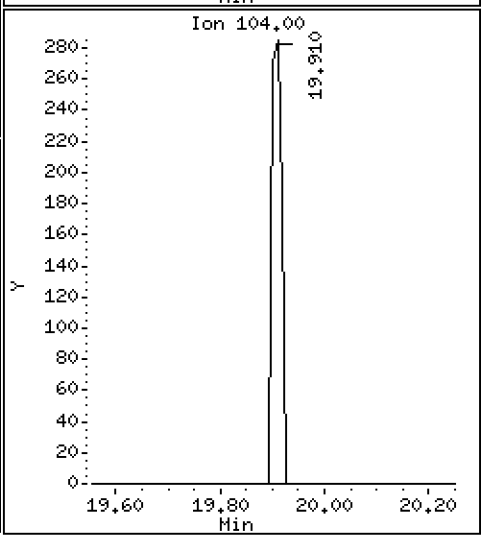


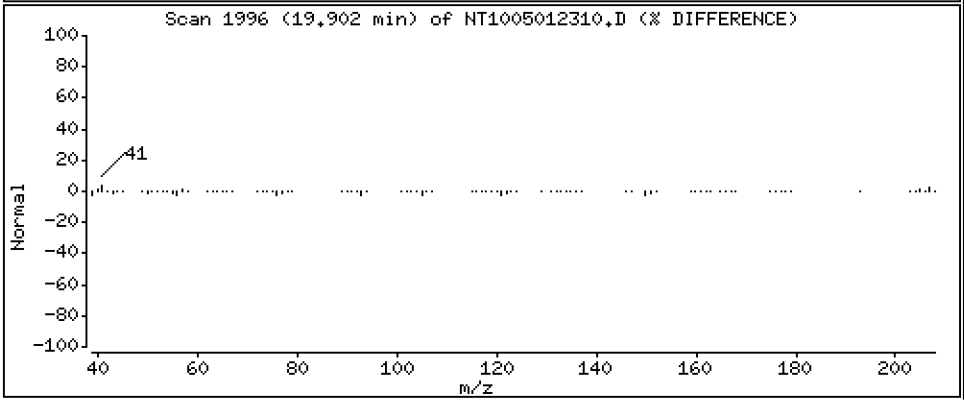












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

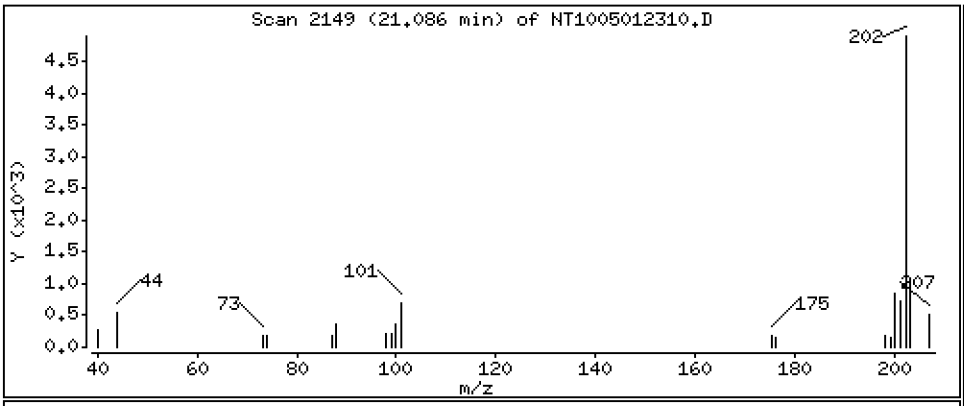
Operator: VTS

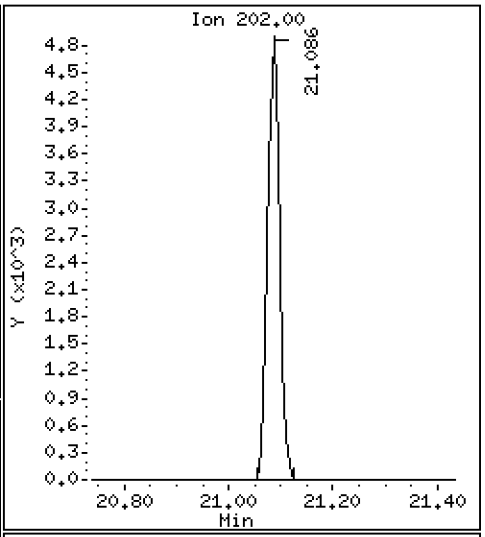
Column phase: ZB-5msi

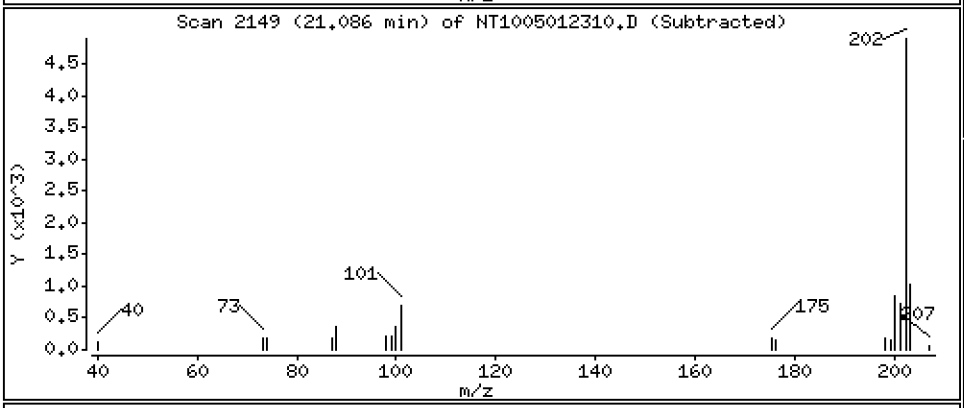
Column diameter: 0.25

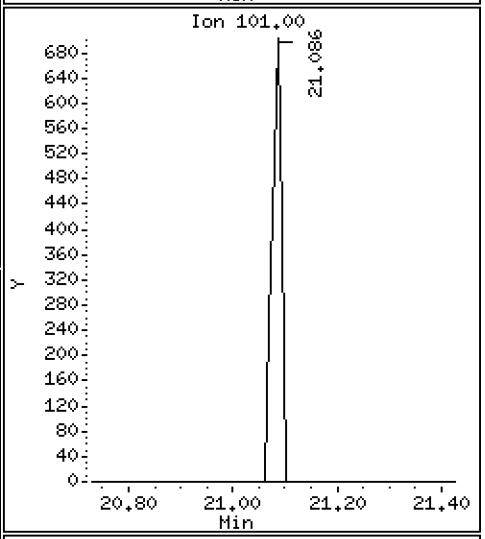
64 Fluoranthene

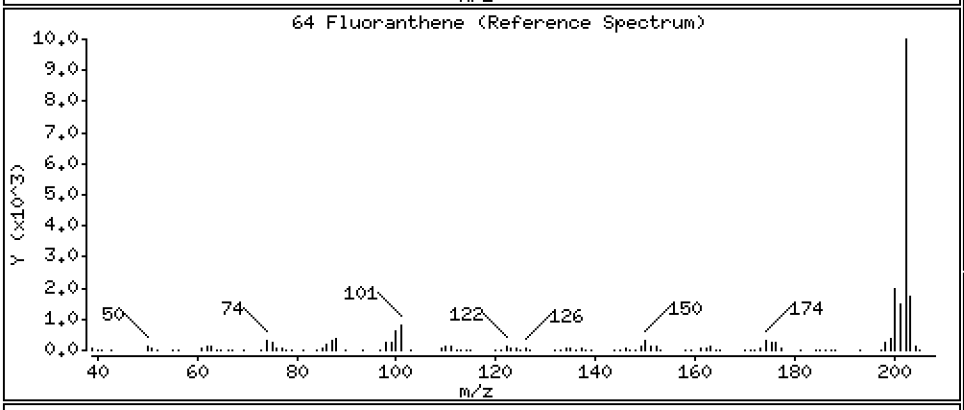
Concentration: 0.03890 ug/mL

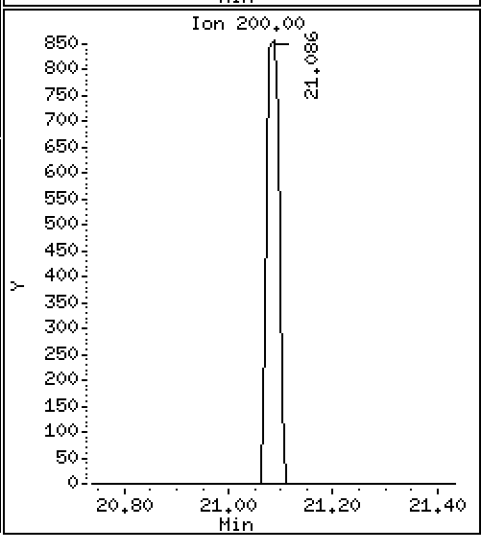


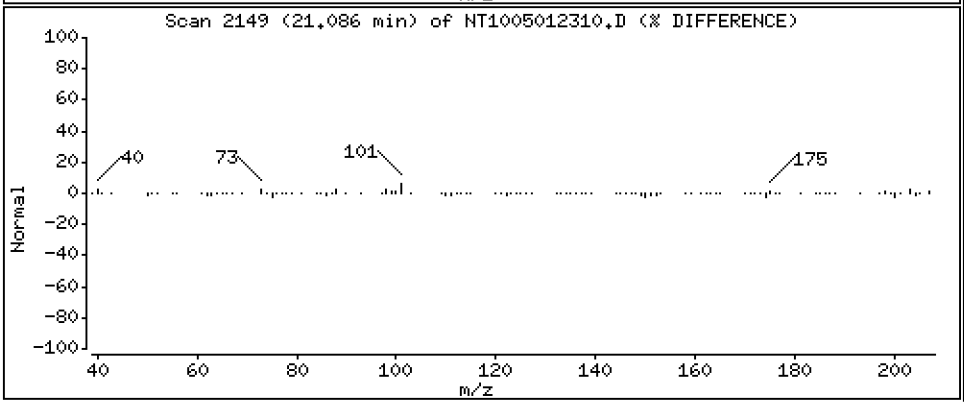












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

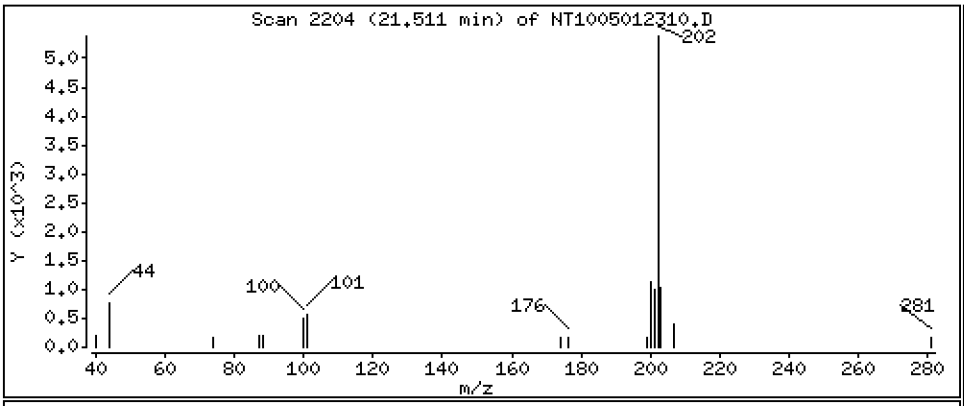
Operator: VTS

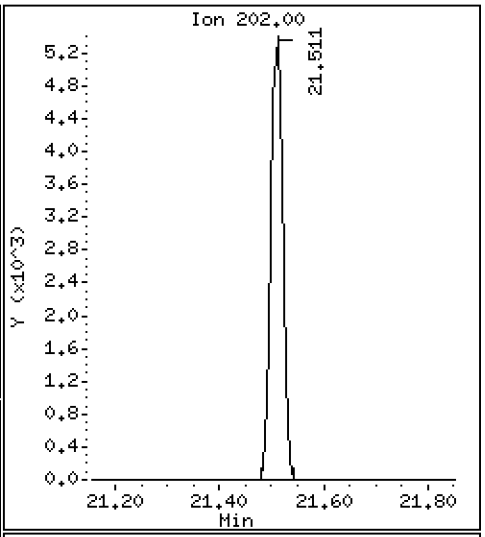
Column phase: ZB-5msi

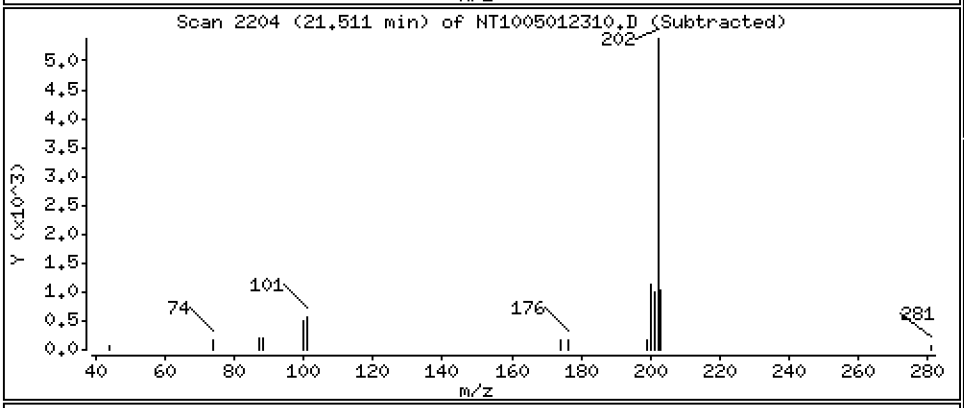
Column diameter: 0.25

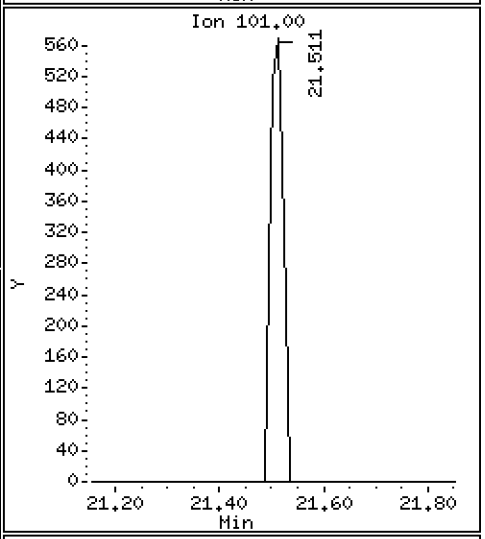
65 Pyrene

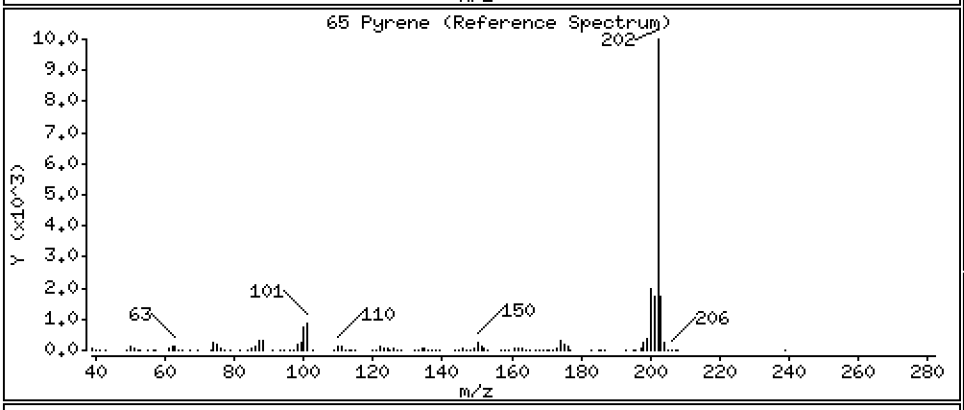
Concentration: 0.04269 ug/mL

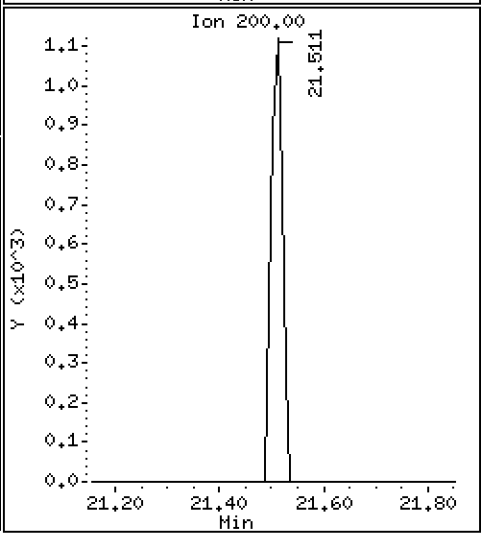


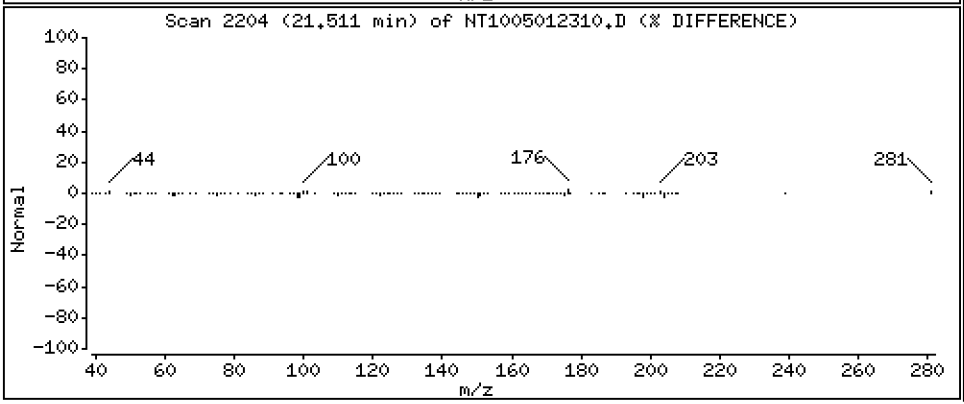












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

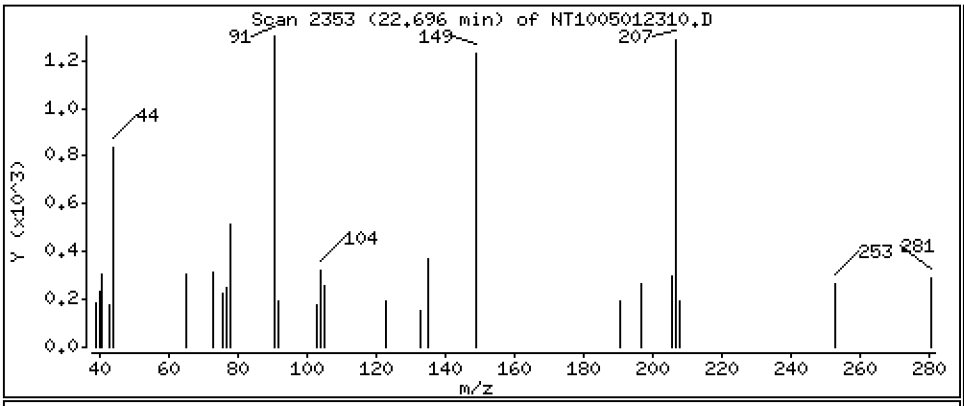
Operator: VTS

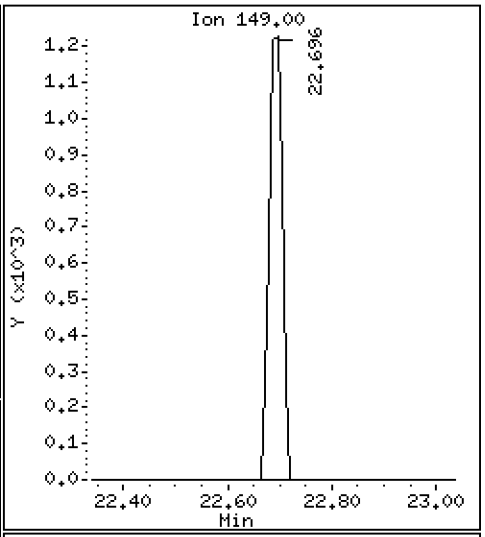
Column phase: ZB-5msi

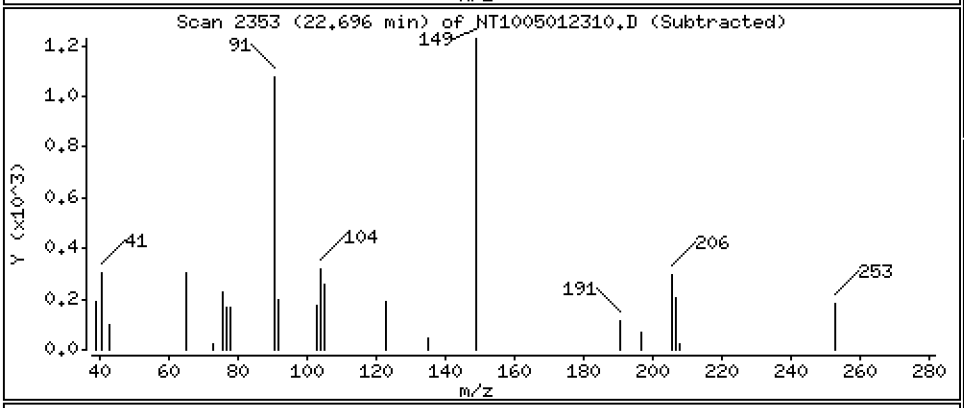
Column diameter: 0.25

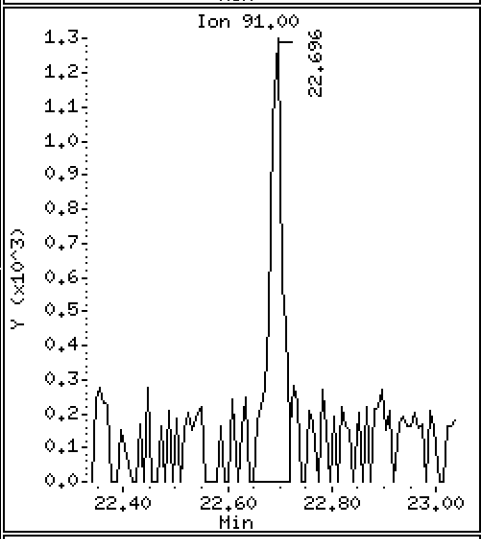
67 Butylbenzylphthalate

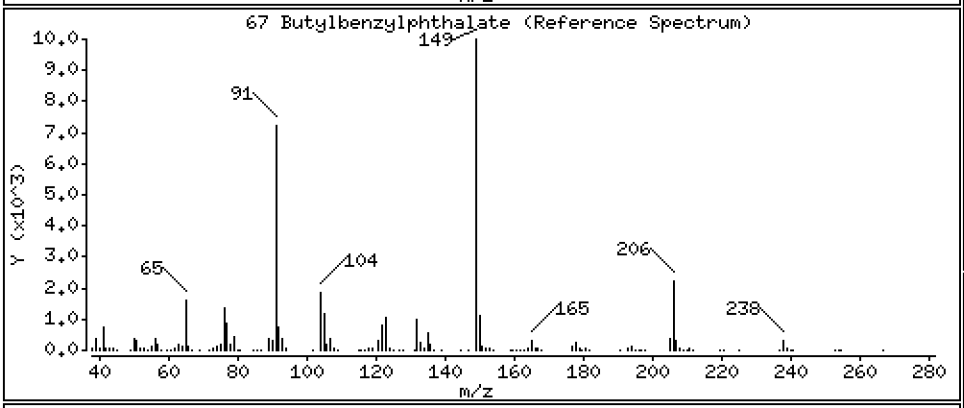
Concentration: 0.02329 ug/mL

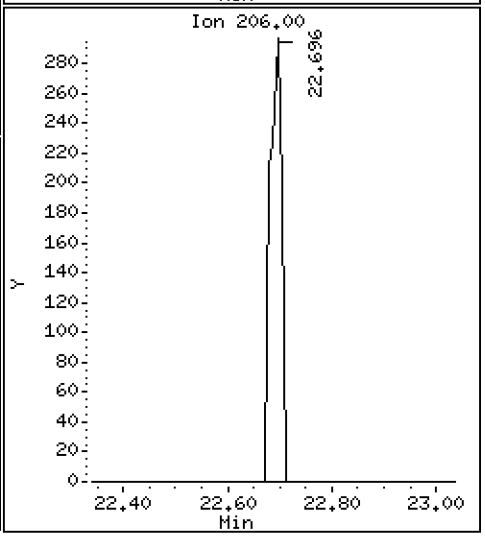


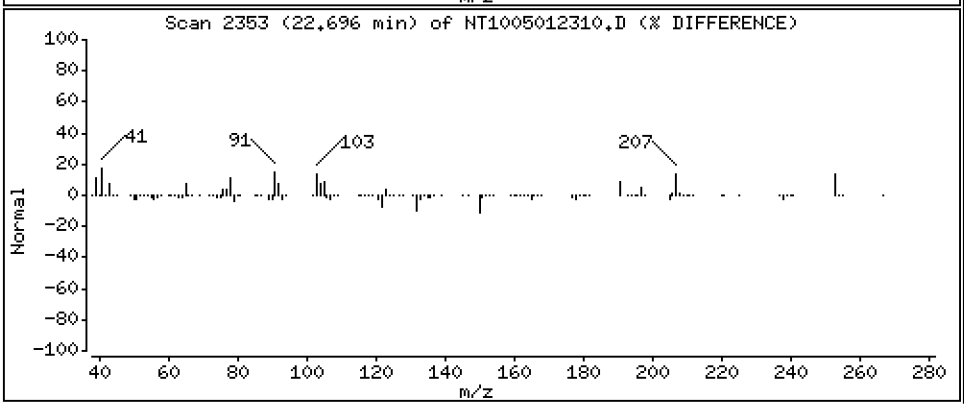












Date : 01-MAY-2023 20:04

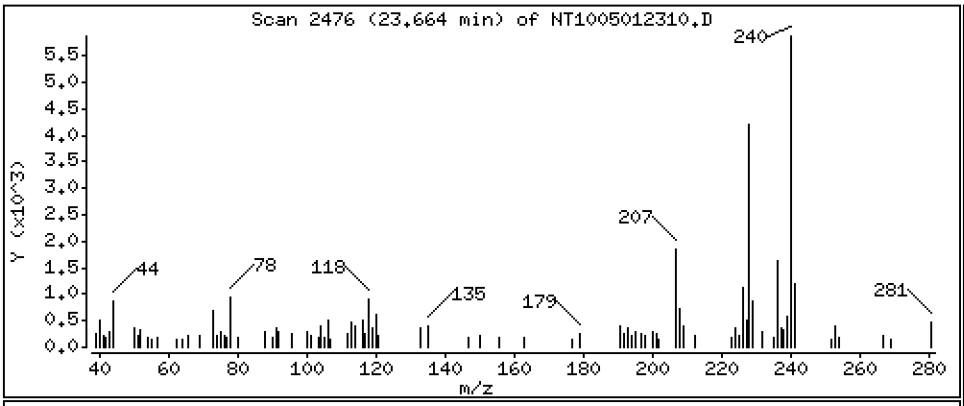
Client ID: Instrument: nt10.i

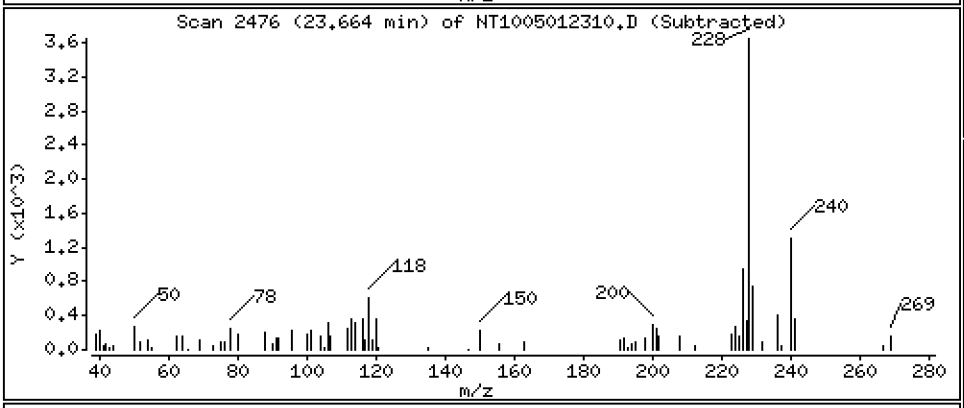
Sample Info: SEQ-SIM1

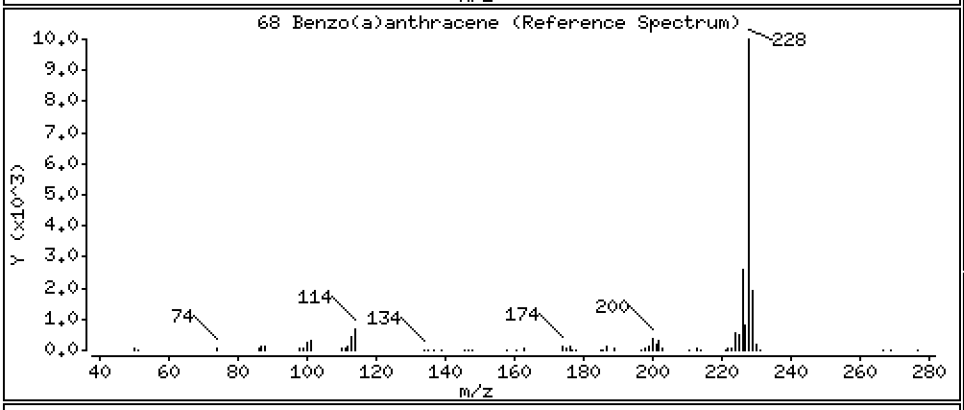
Operator: VTS

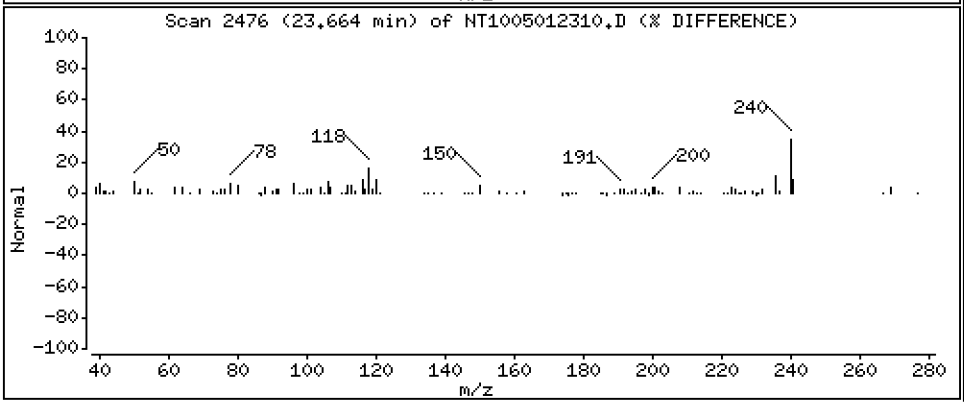
Column phase: ZB-5msi Column diameter: 0.25

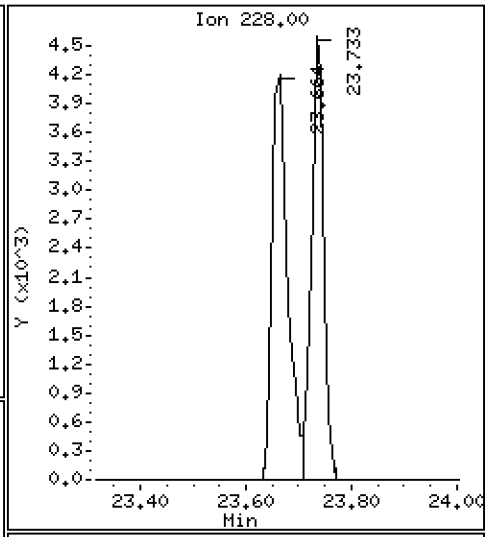
68 Benzo(a)anthracene Concentration: 0.05140 ug/mL

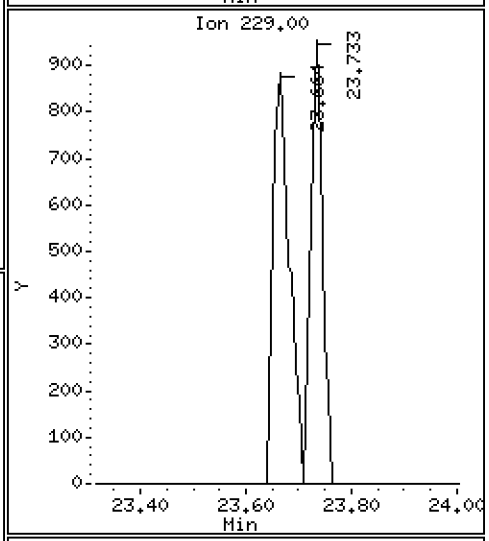


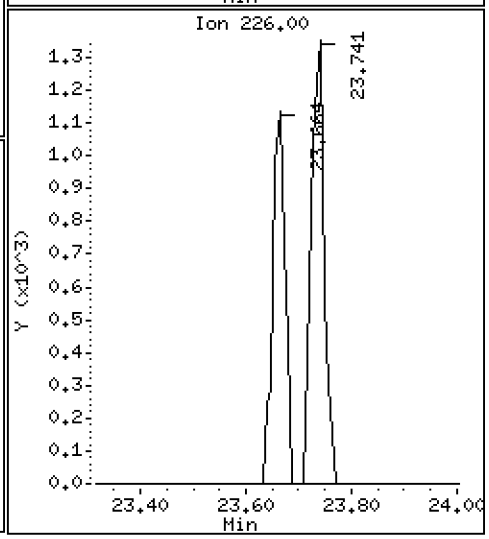












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

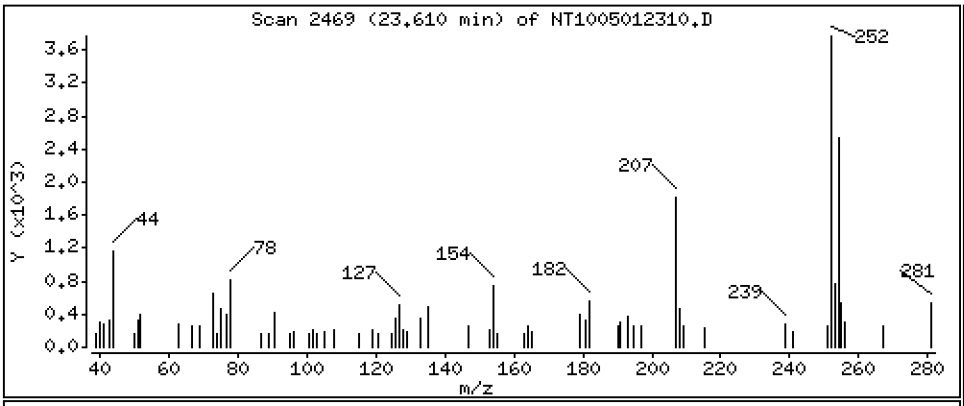
Operator: VTS

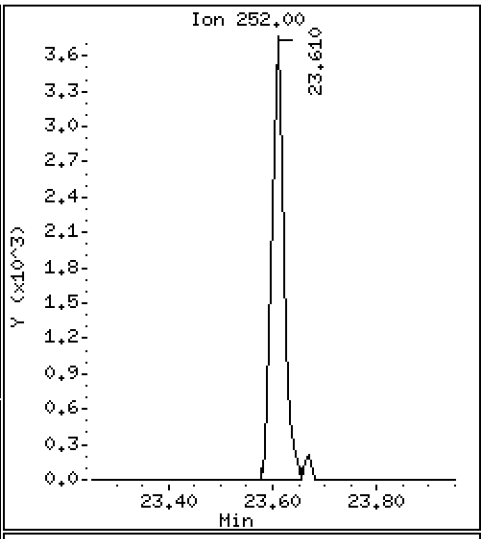
Column phase: ZB-5msi

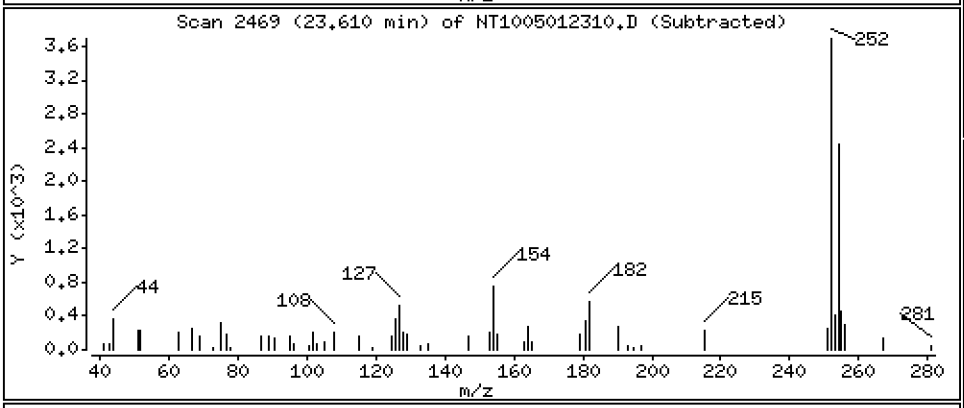
Column diameter: 0.25

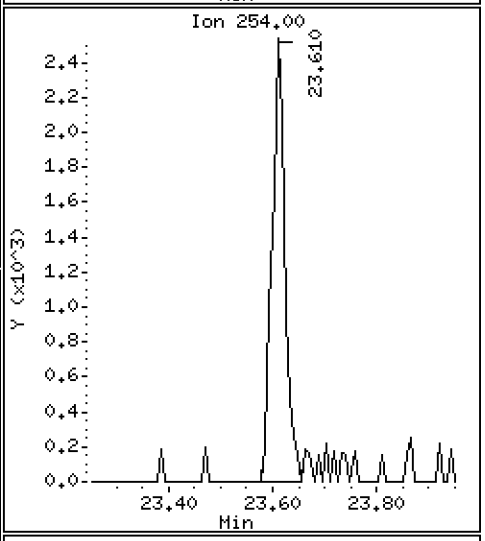
70 3,3'-Dichlorobenzidine

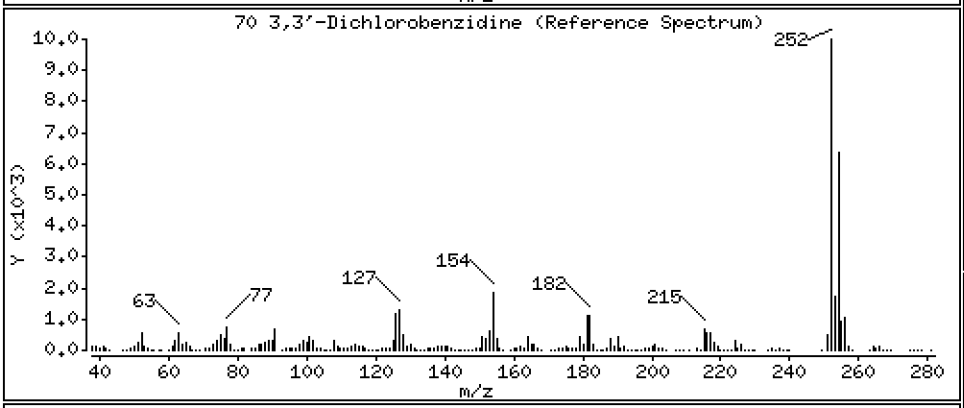
Concentration: 0.1168 ug/mL

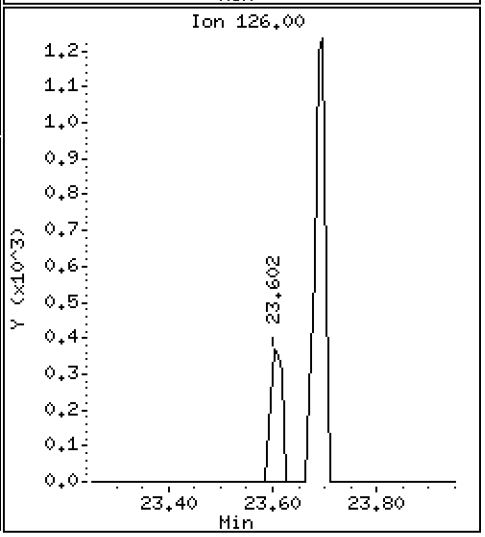


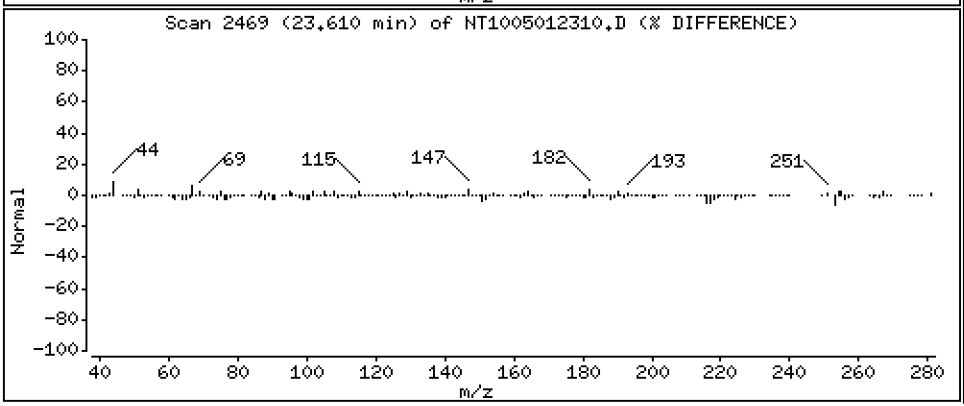












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

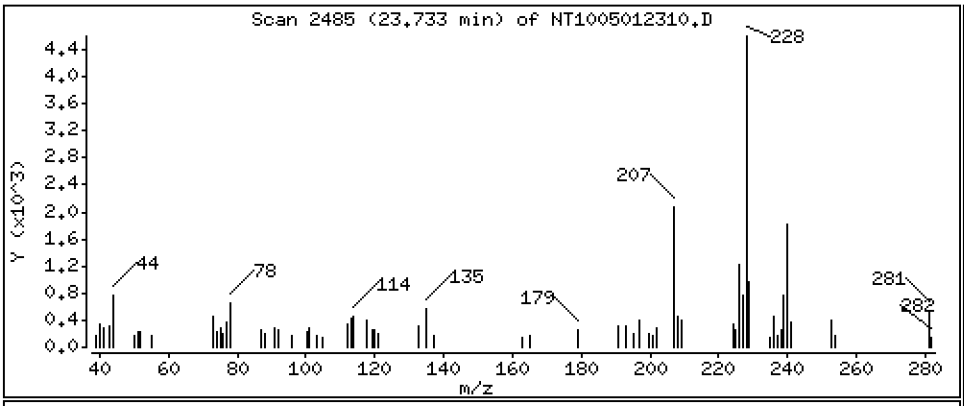
Operator: VTS

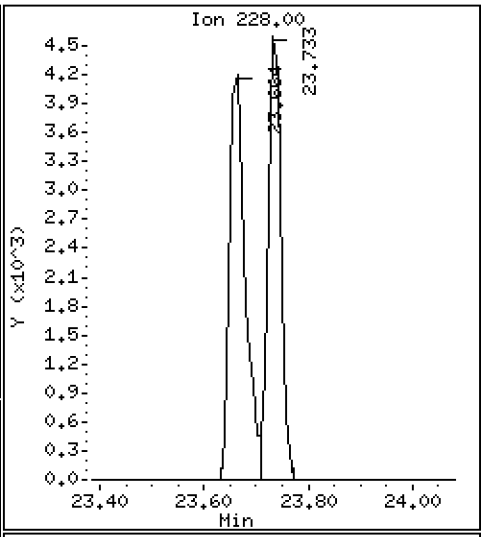
Column phase: ZB-5msi

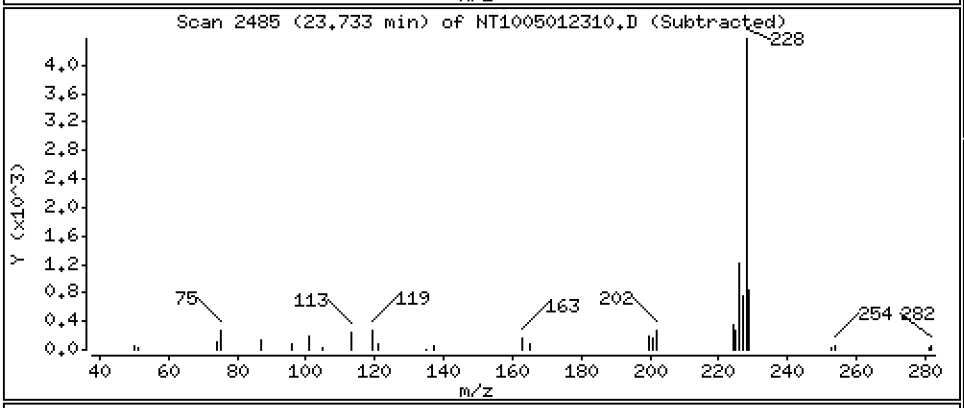
Column diameter: 0.25

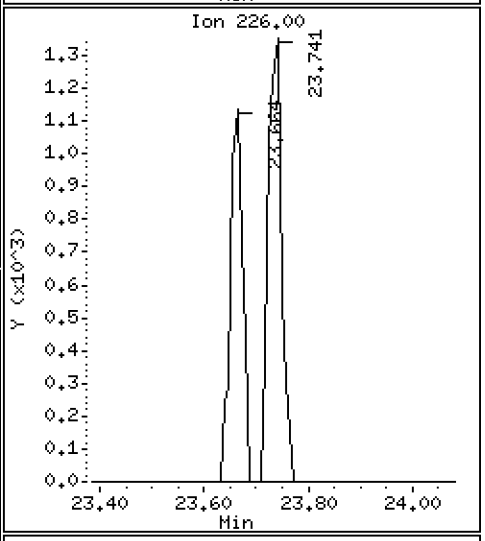
71 Chrysene

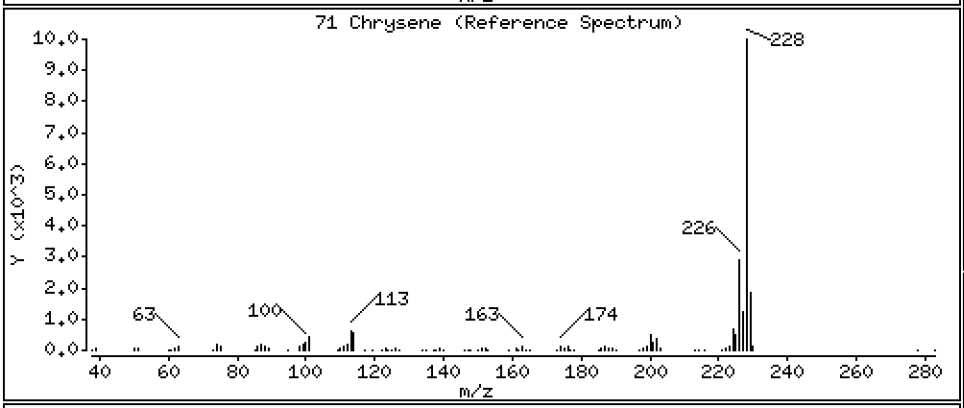
Concentration: 0.04969 ug/mL

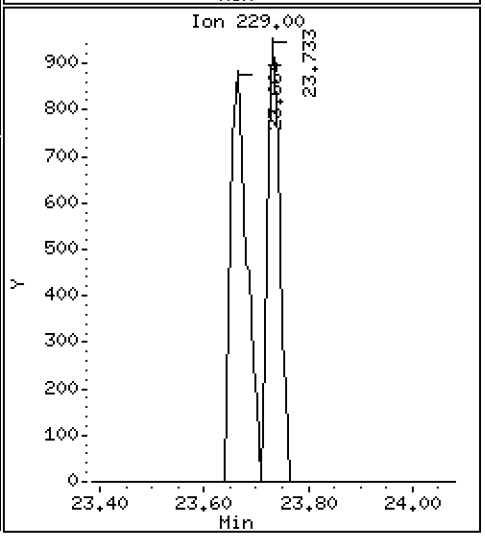


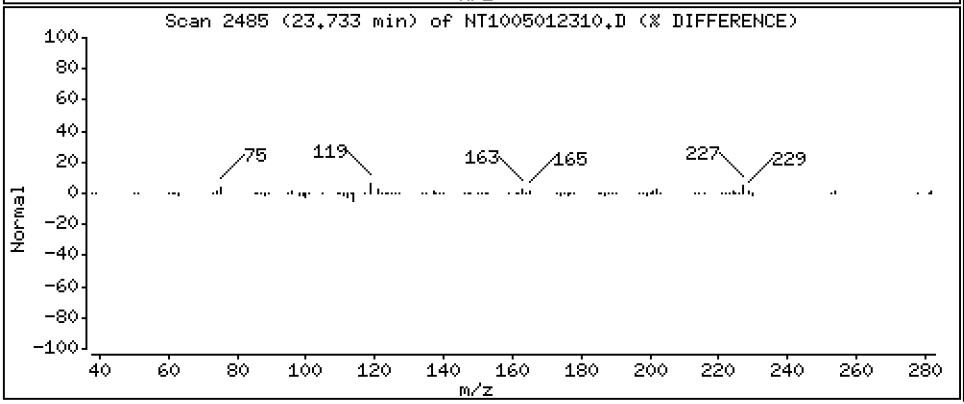












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

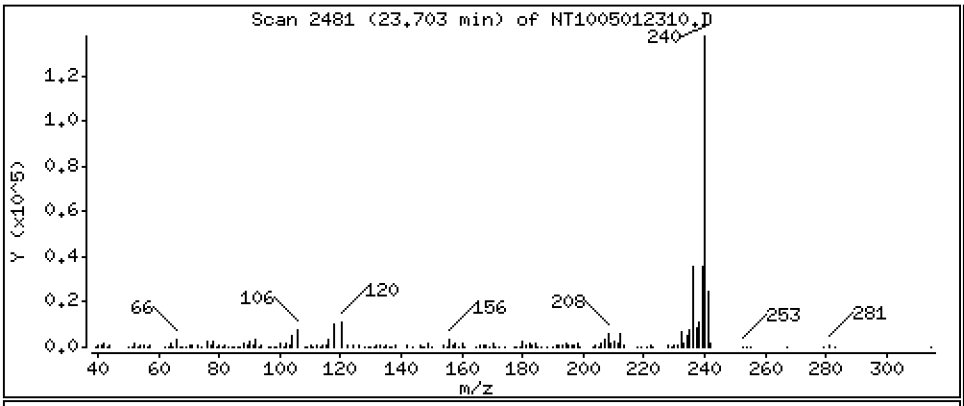
Operator: VTS

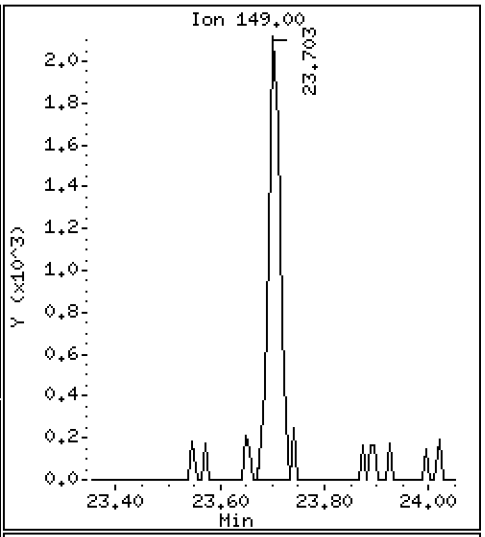
Column phase: ZB-5msi

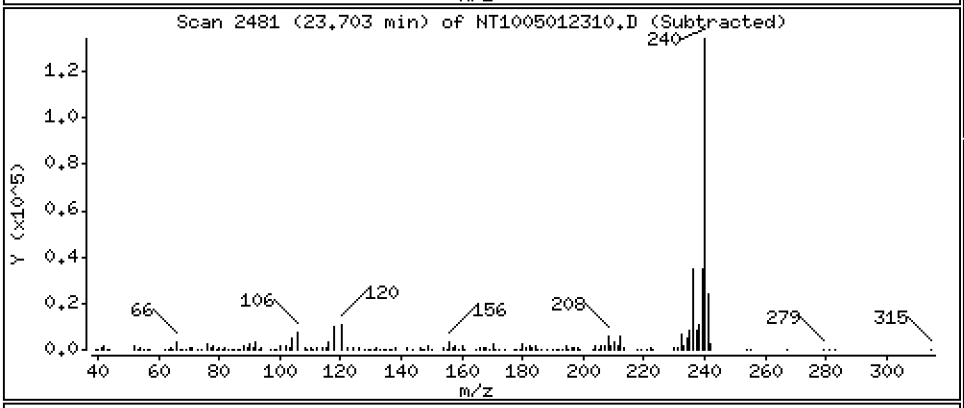
Column diameter: 0.25

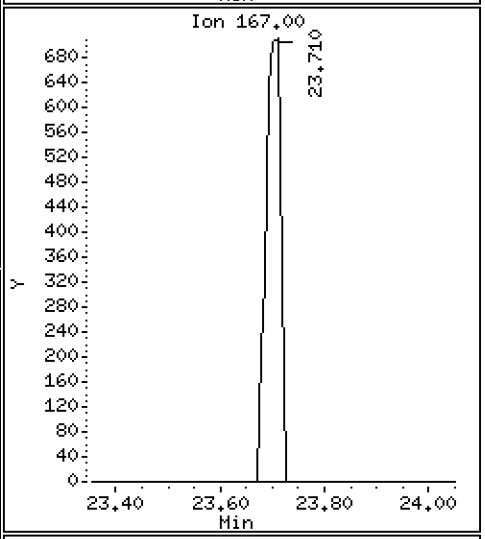
72 bis(2-Ethylhexyl)phthalate

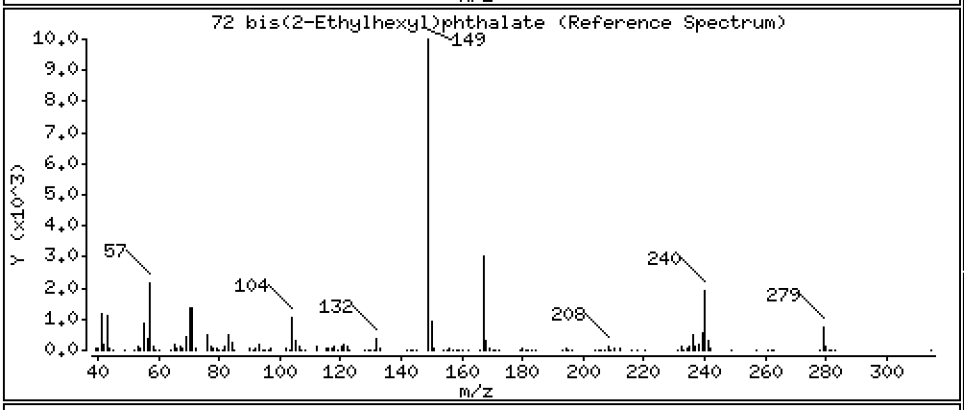
Concentration: 0.03435 ug/mL

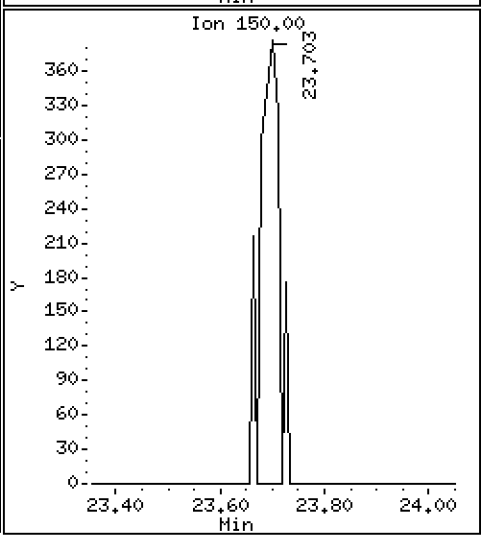


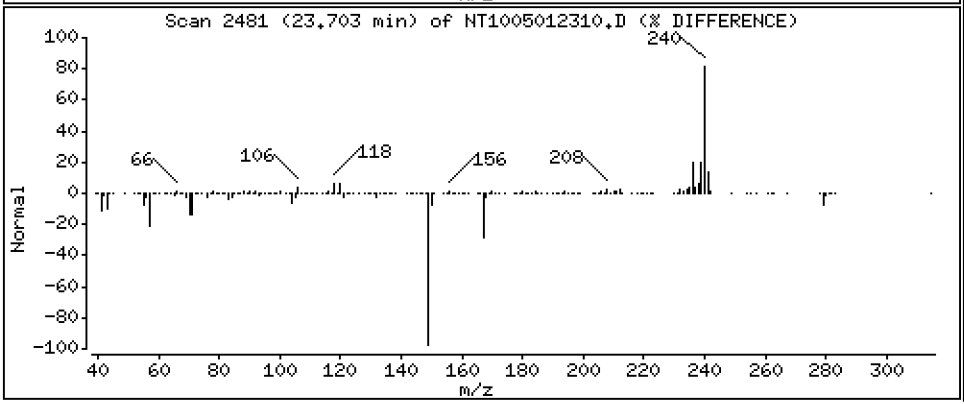












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

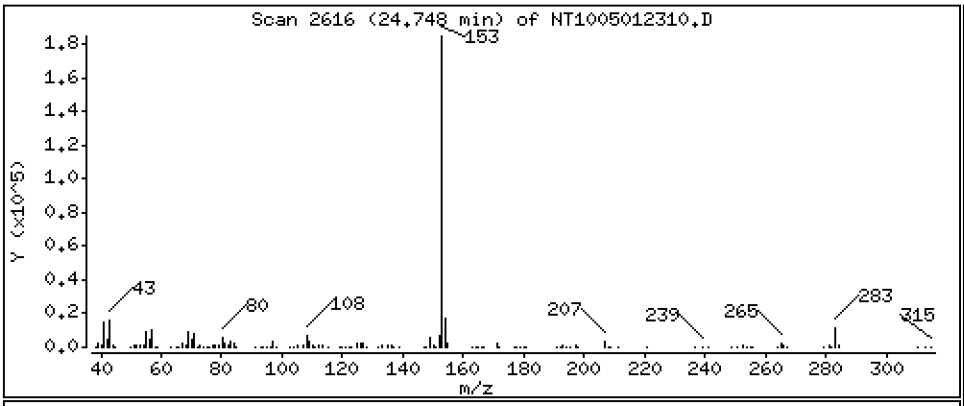
Operator: VTS

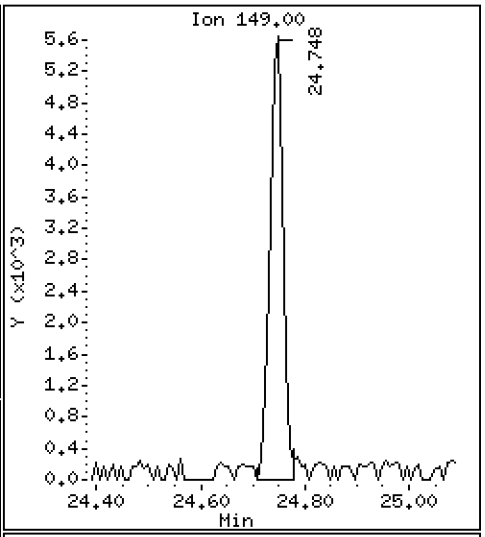
Column phase: ZB-5msi

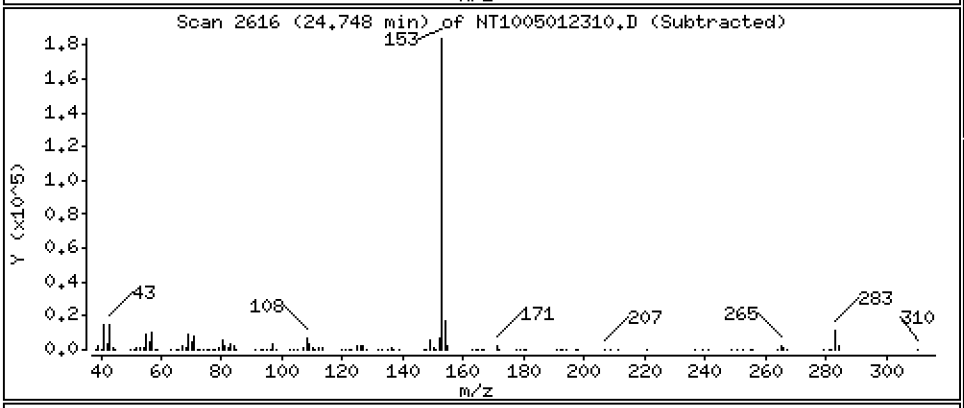
Column diameter: 0.25

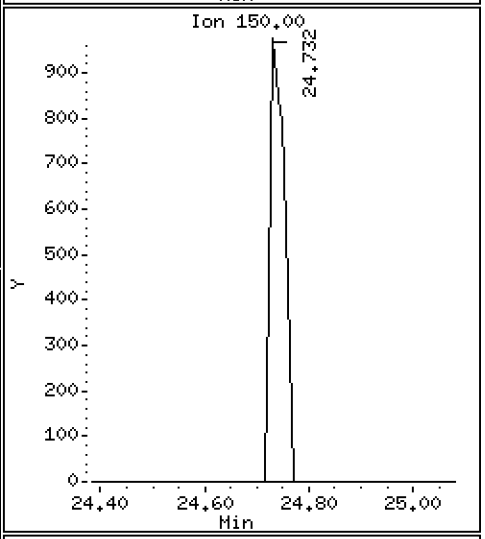
73 Di-n-octylphthalate

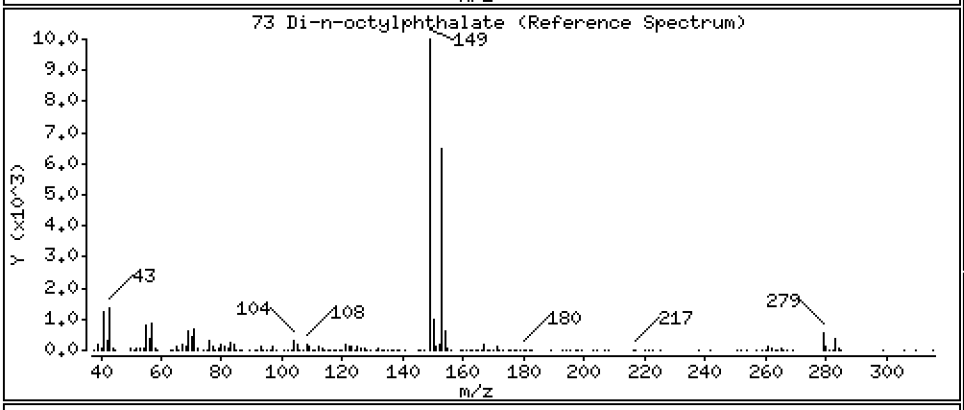
Concentration: 0.05863 ug/mL

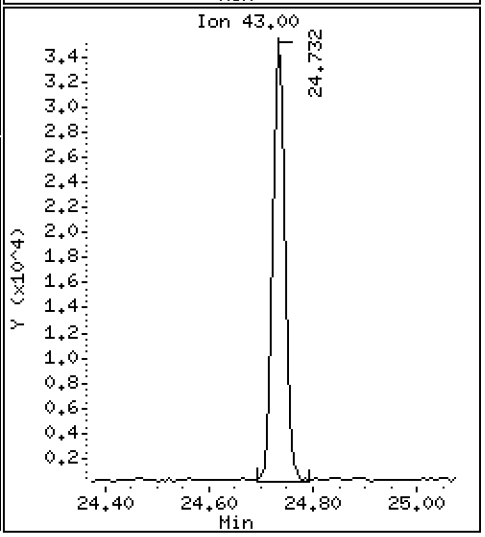


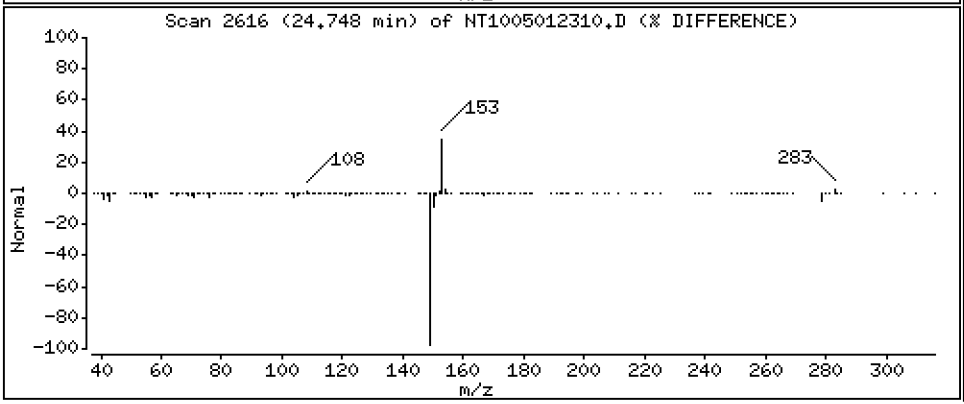












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

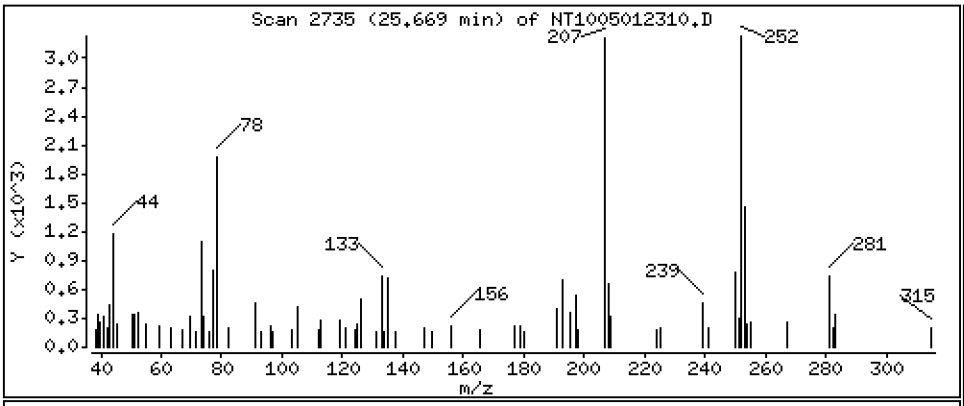
Operator: VTS

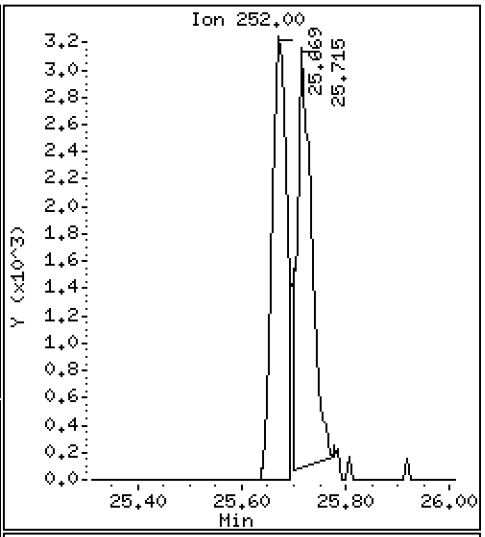
Column phase: ZB-5msi

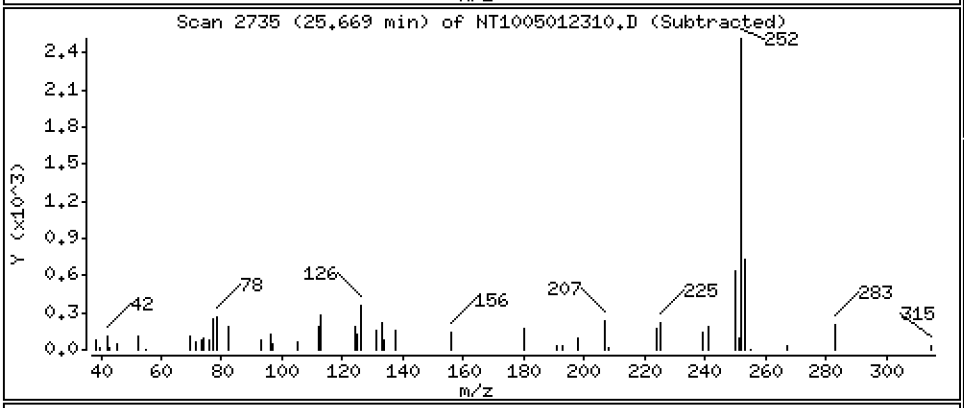
Column diameter: 0.25

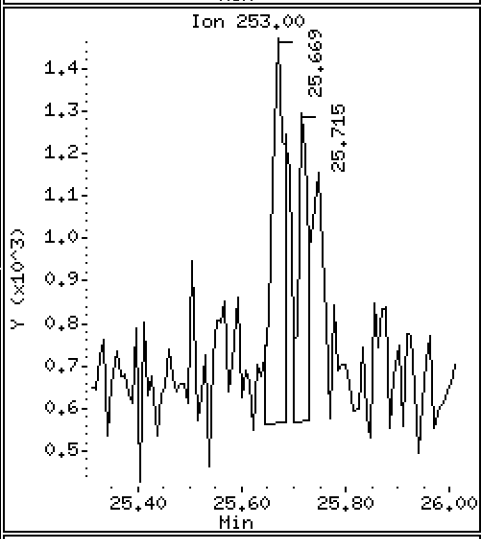
74 Benzo(b)fluoranthene

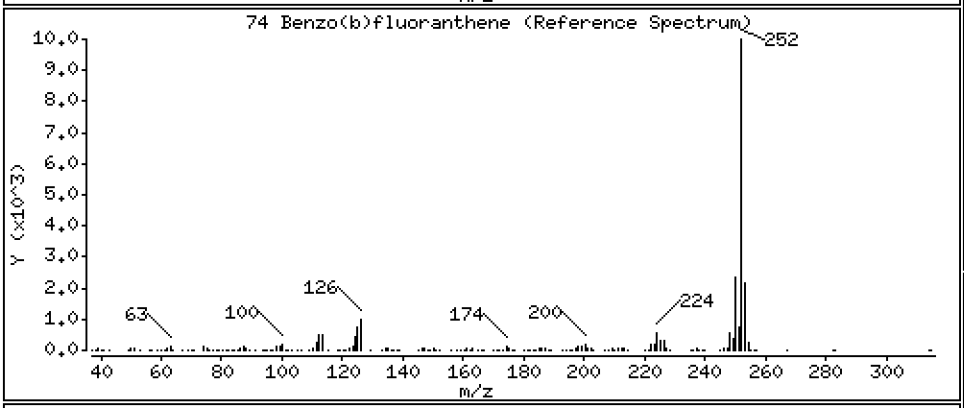
Concentration: 0.03915 ug/mL

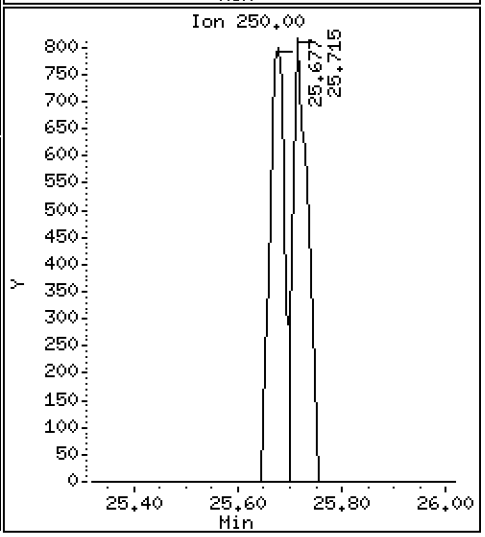


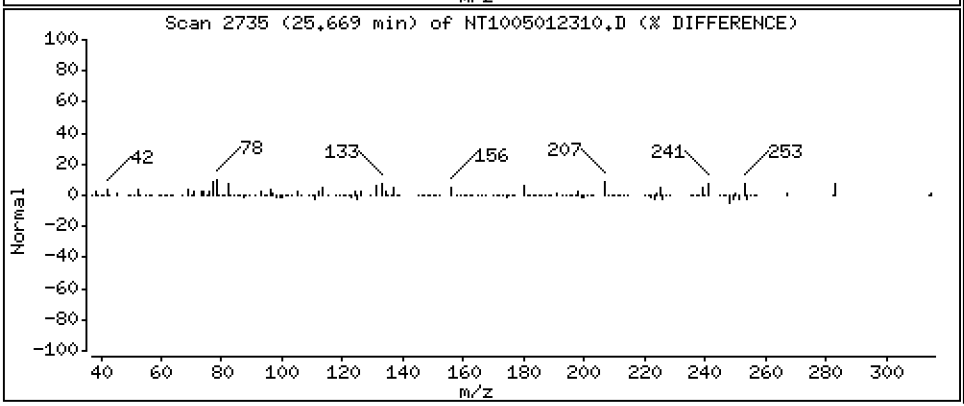












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

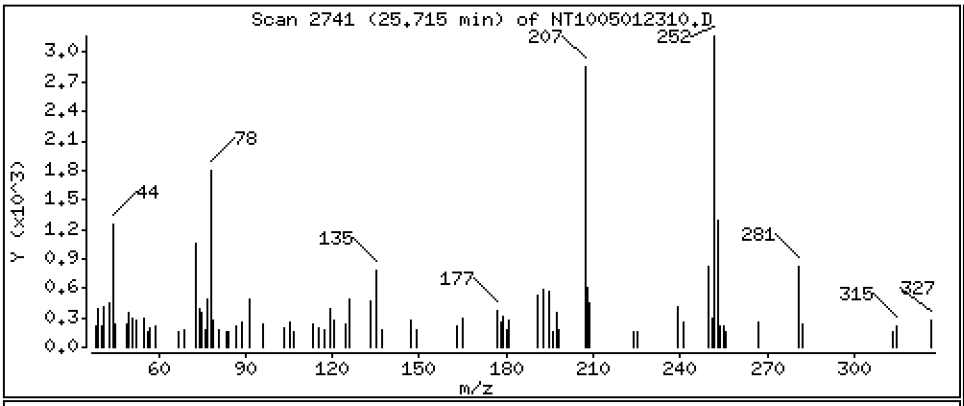
Operator: VTS

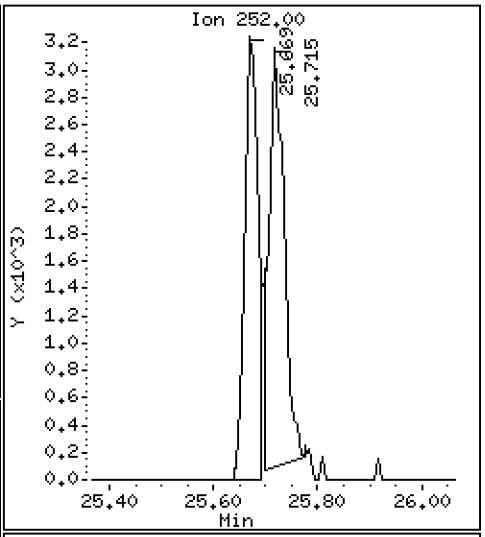
Column phase: ZB-5msi

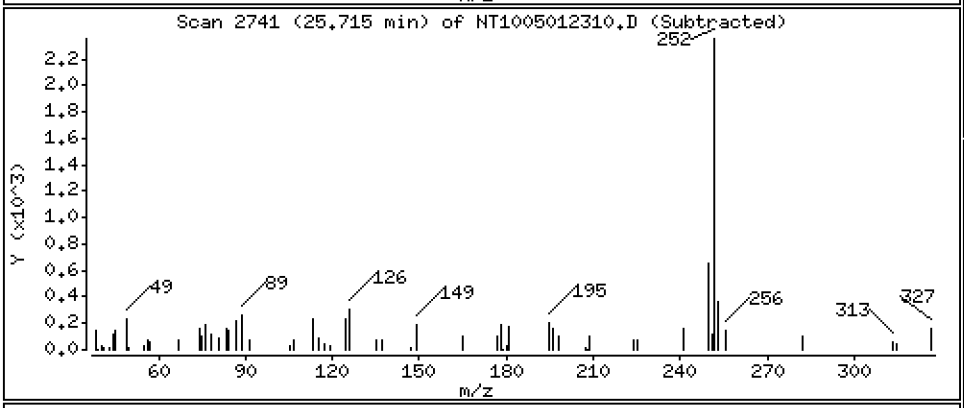
Column diameter: 0.25

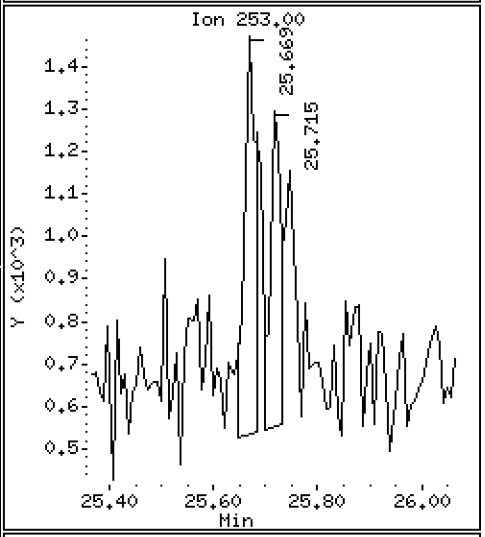
75 Benzo(k)fluoranthene

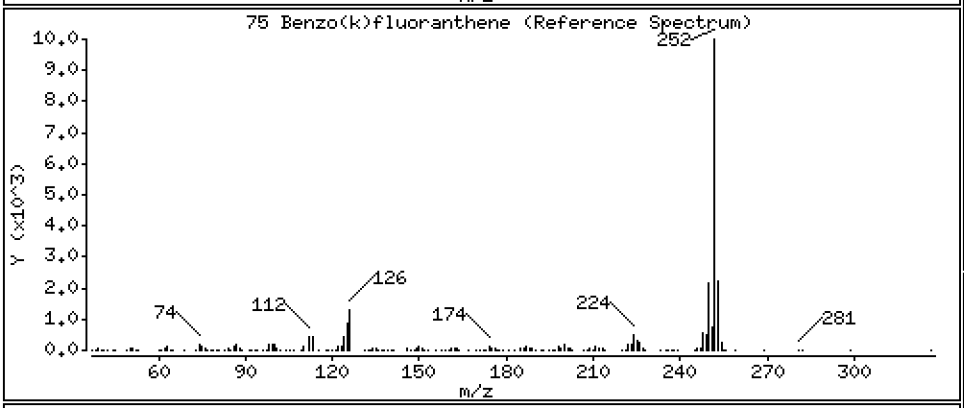
Concentration: 0.03974 ug/mL

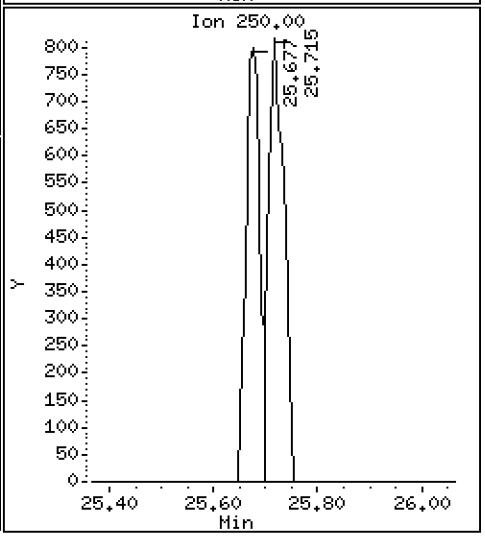


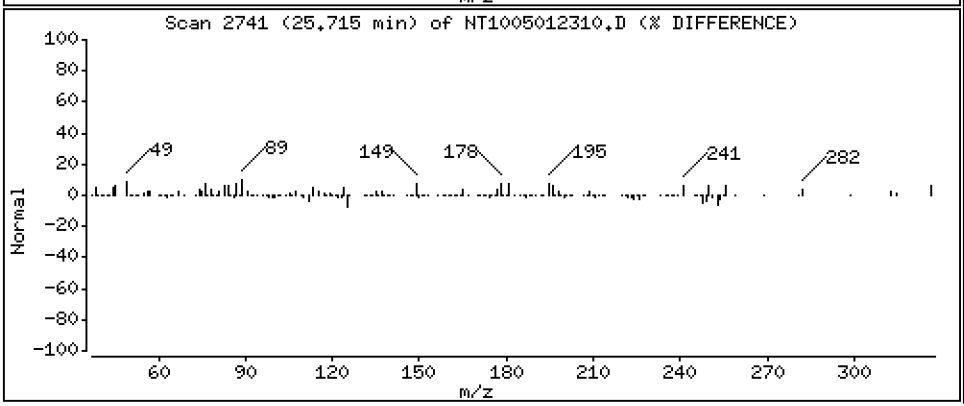












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

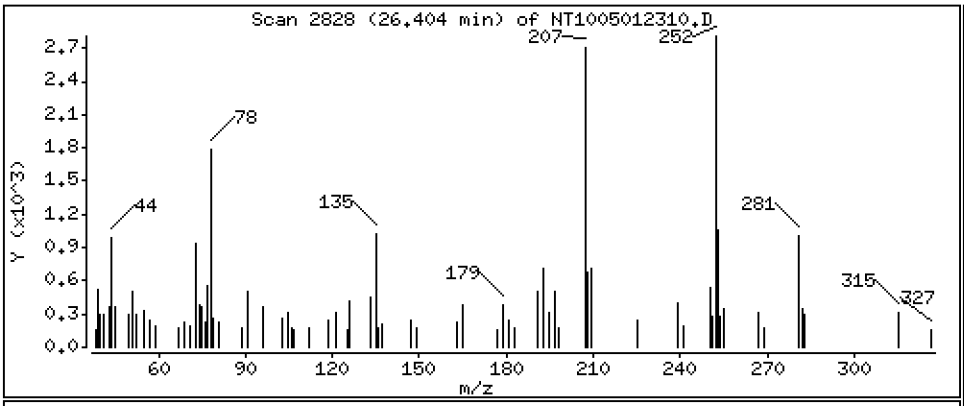
Operator: VTS

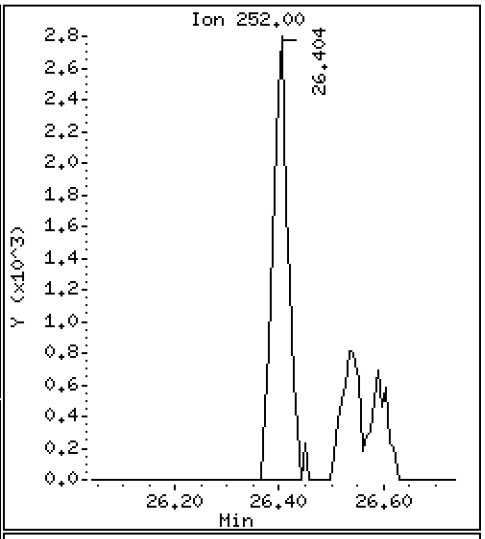
Column phase: ZB-5msi

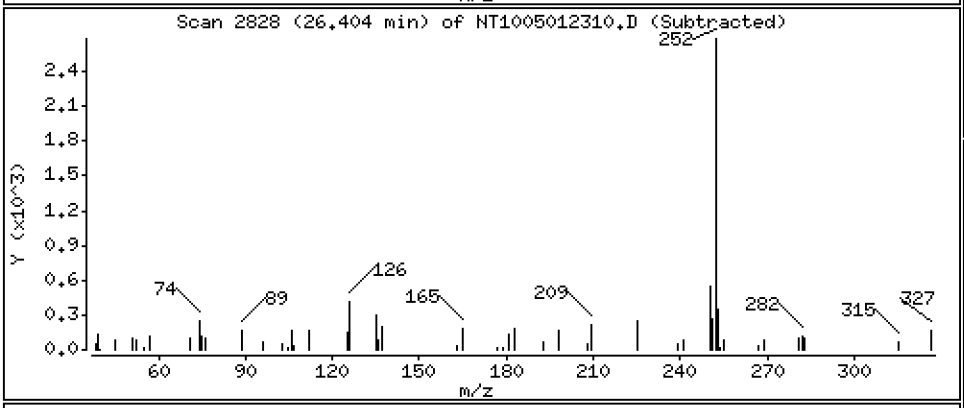
Column diameter: 0.25

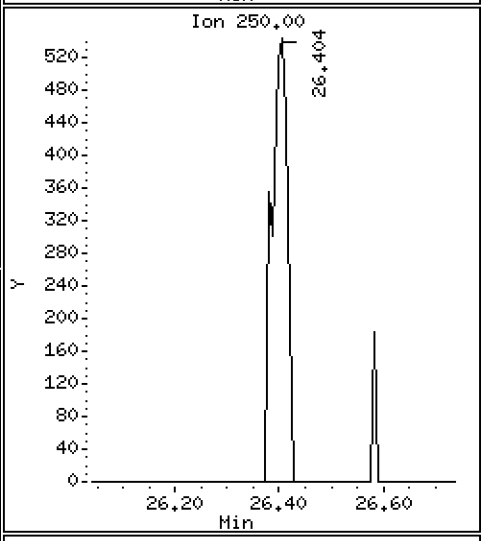
76 Benzo(a)pyrene

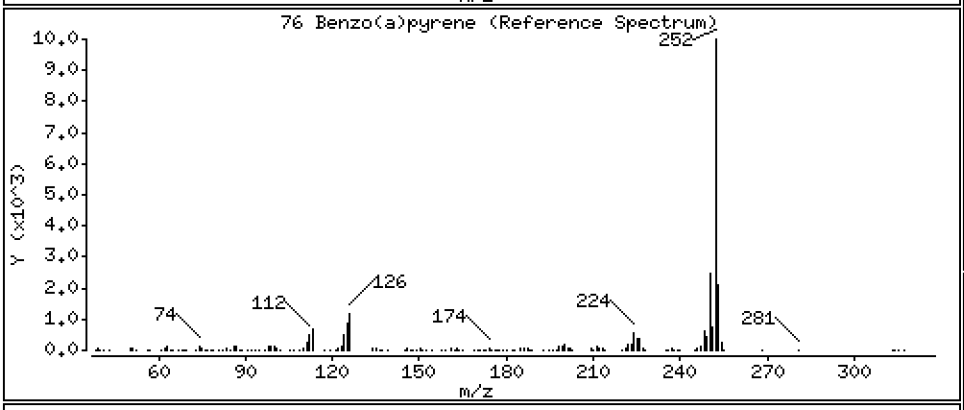
Concentration: 0.04202 ug/mL

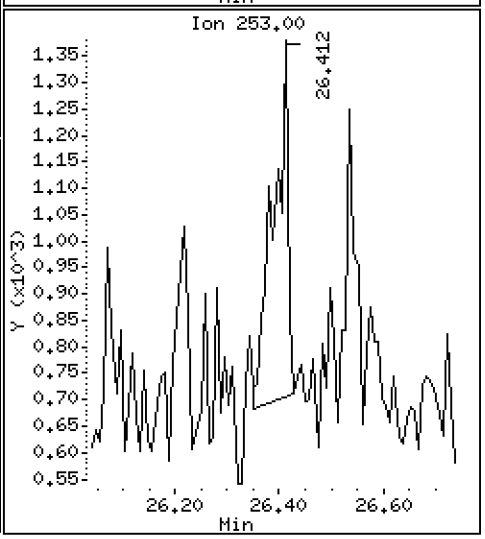


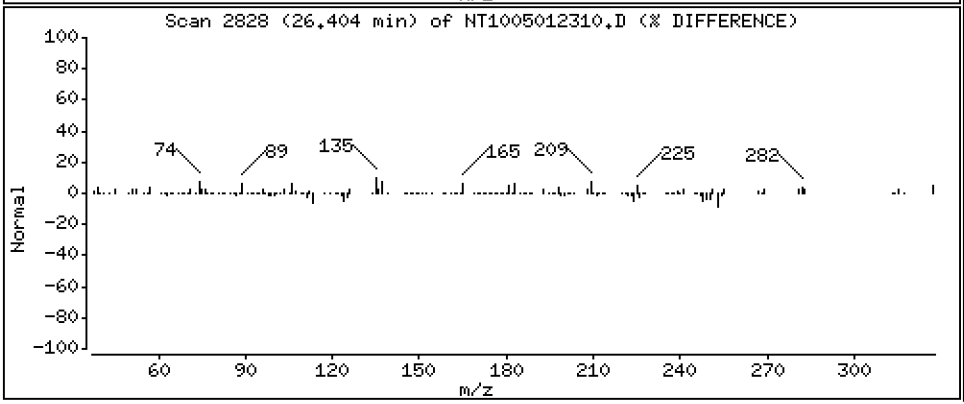












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

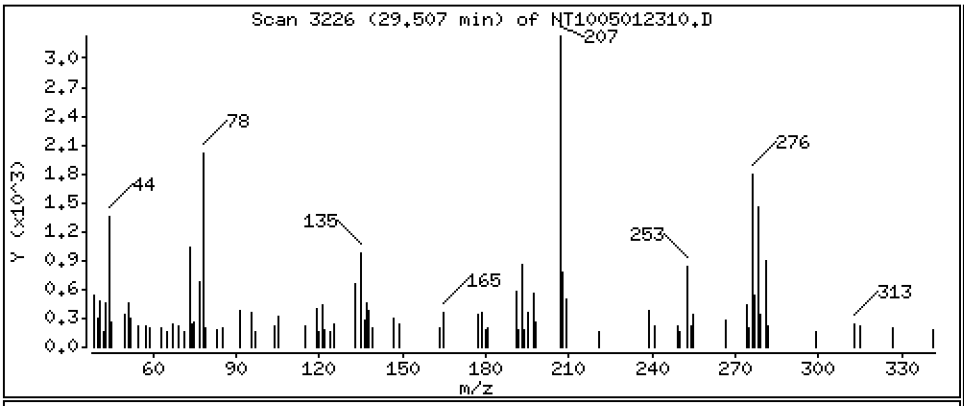
Operator: VTS

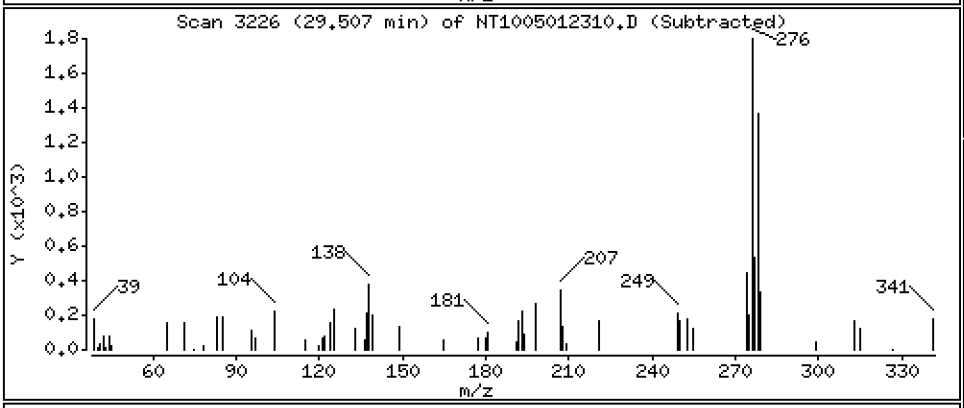
Column phase: ZB-5msi

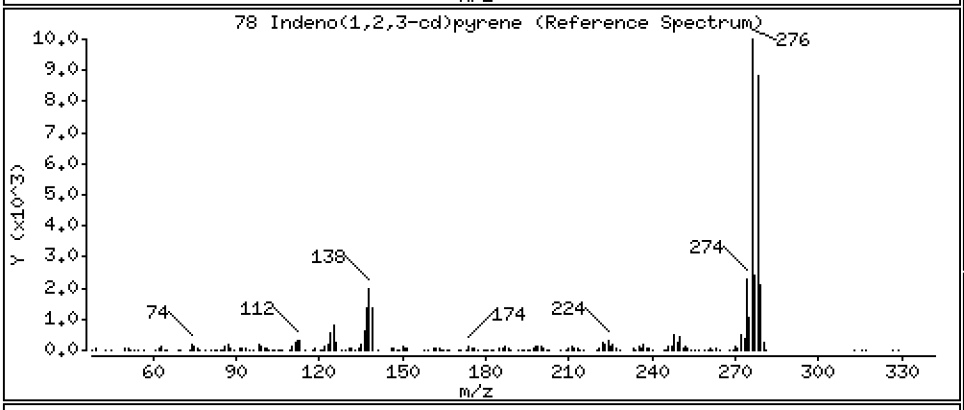
Column diameter: 0.25

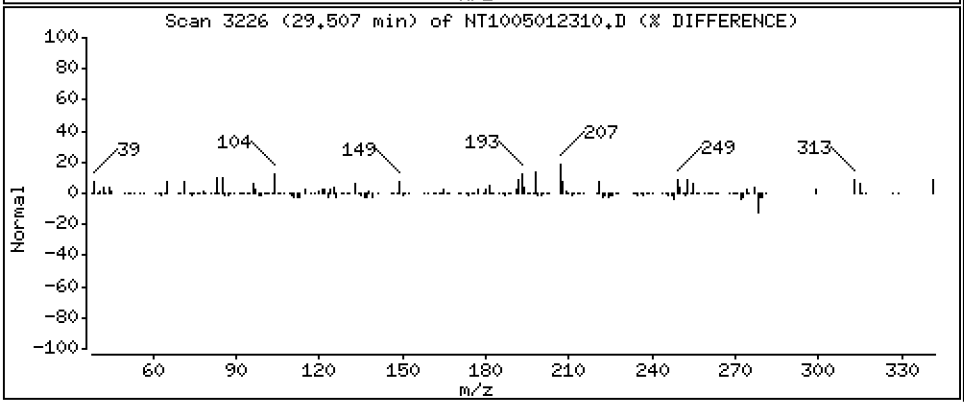
78 Indeno(1,2,3-cd)pyrene

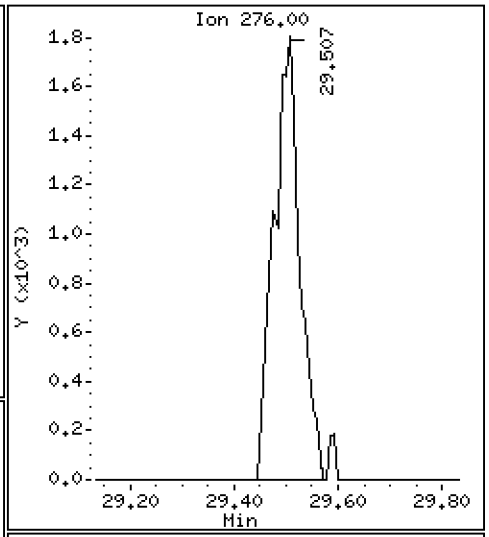
Concentration: 0.03998 ug/mL

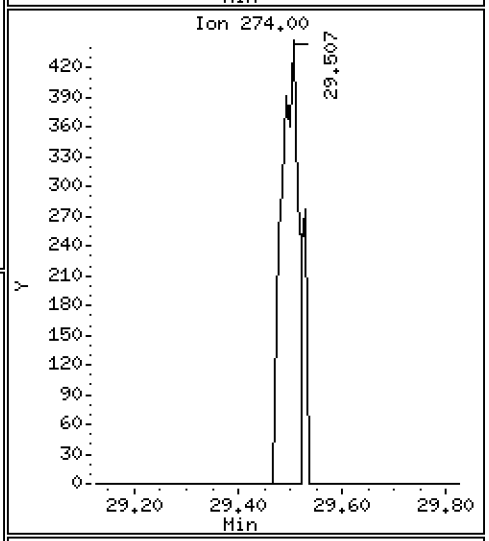


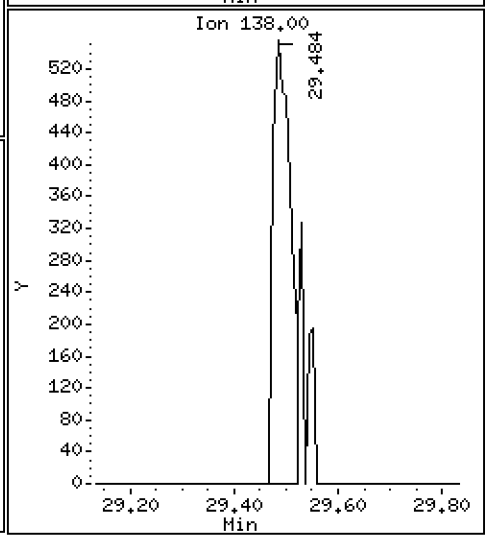












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

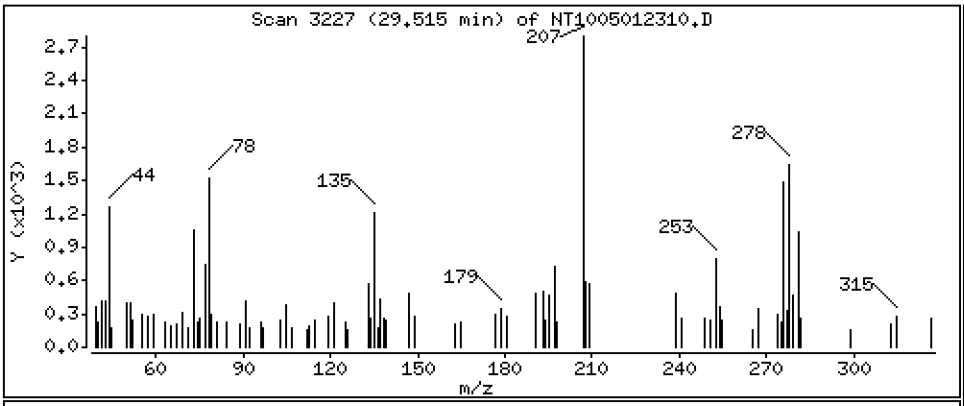
Operator: VTS

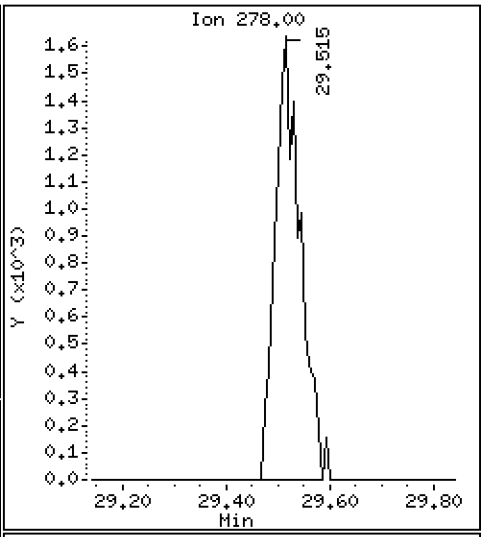
Column phase: ZB-5msi

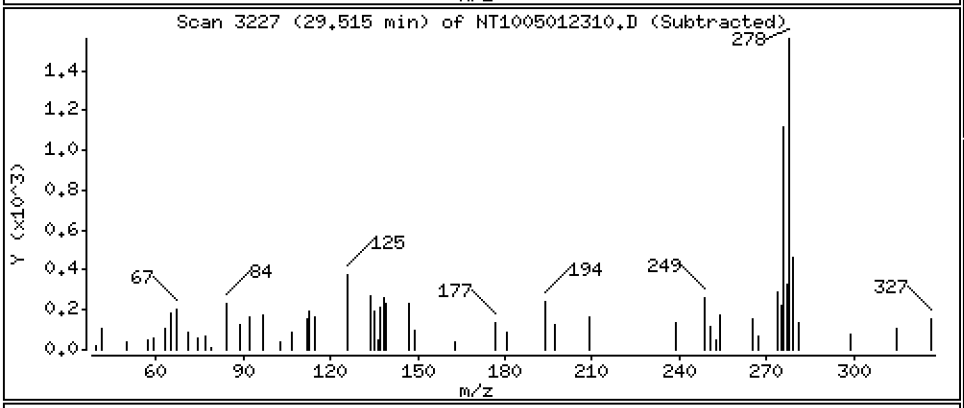
Column diameter: 0.25

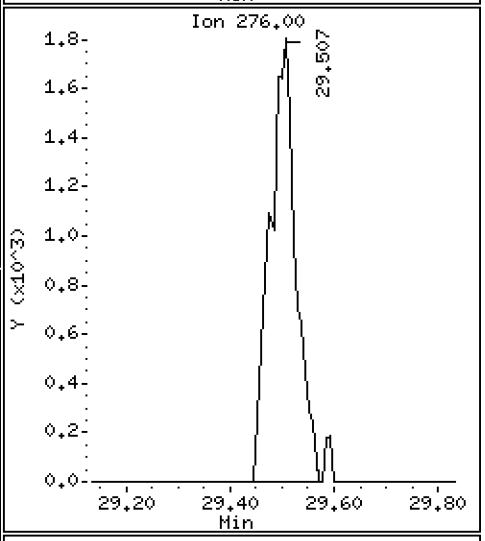
79 Dibenzo(a,h)anthracene

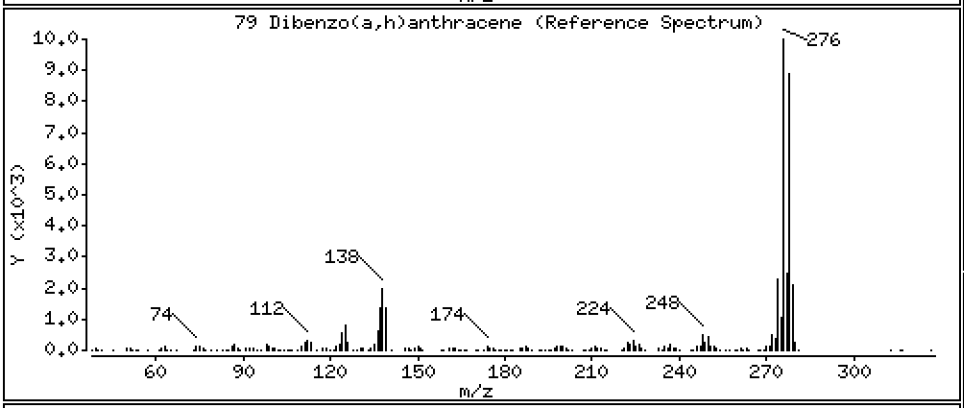
Concentration: 0.04128 ug/mL

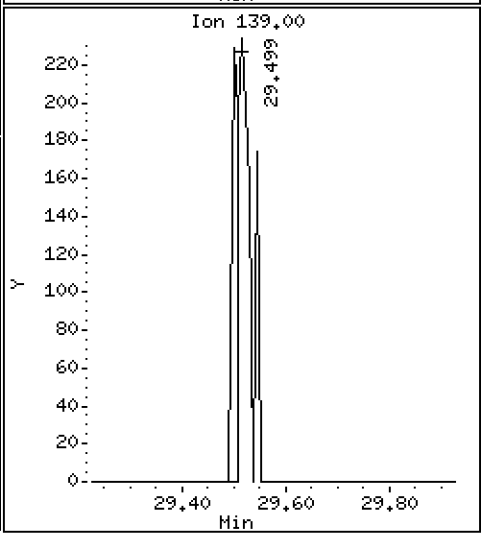


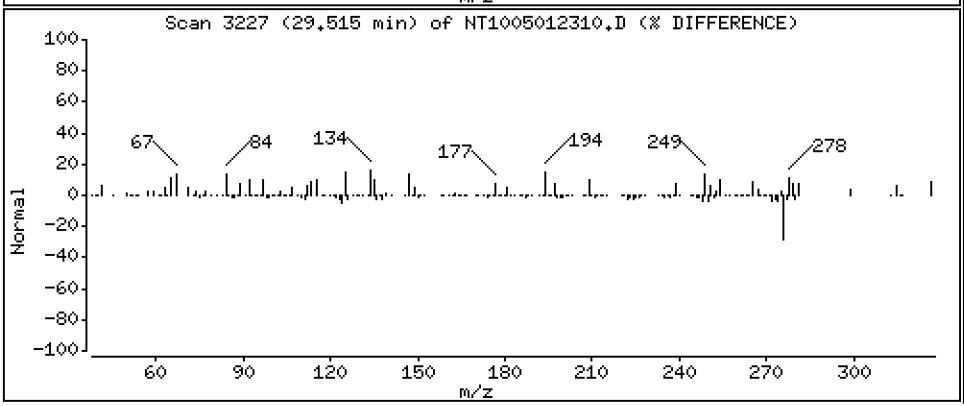












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

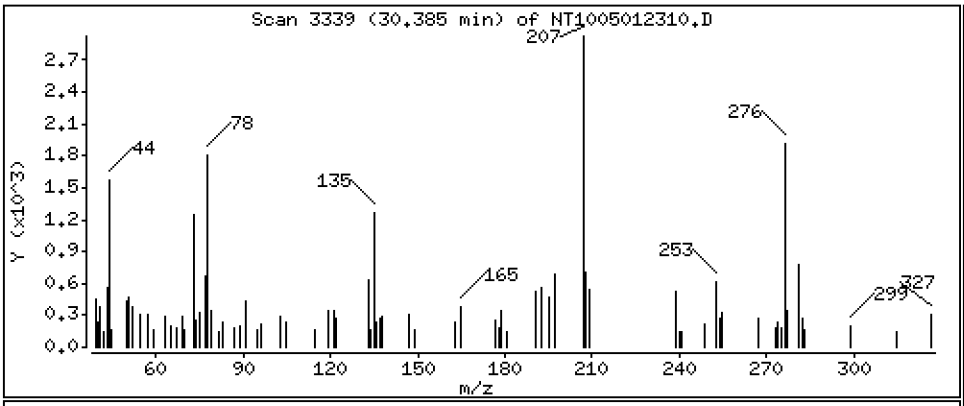
Operator: VTS

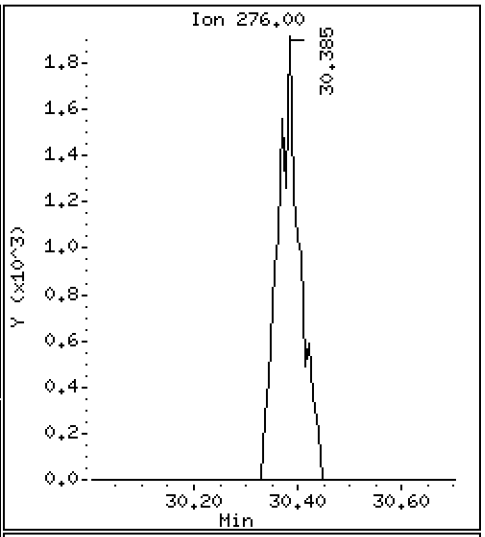
Column phase: ZB-5msi

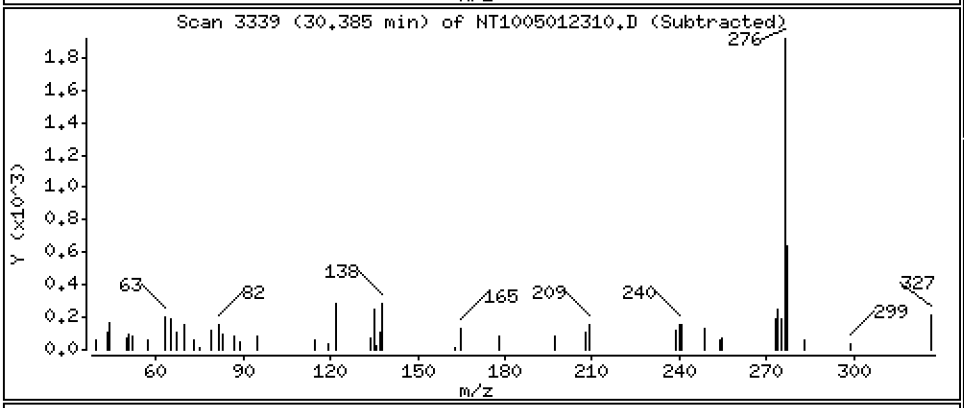
Column diameter: 0.25

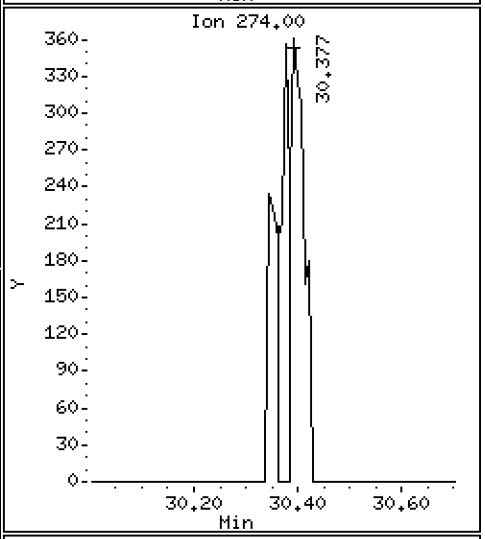
80 Benzo(g,h,i)perylene

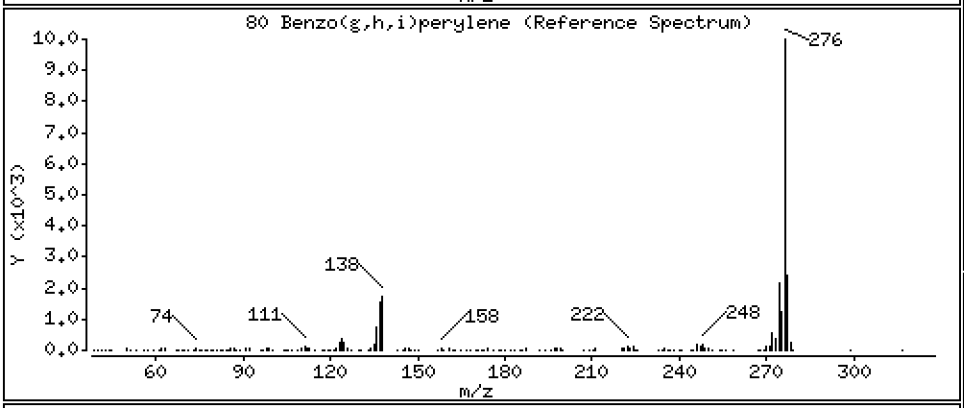
Concentration: 0.04527 ug/mL

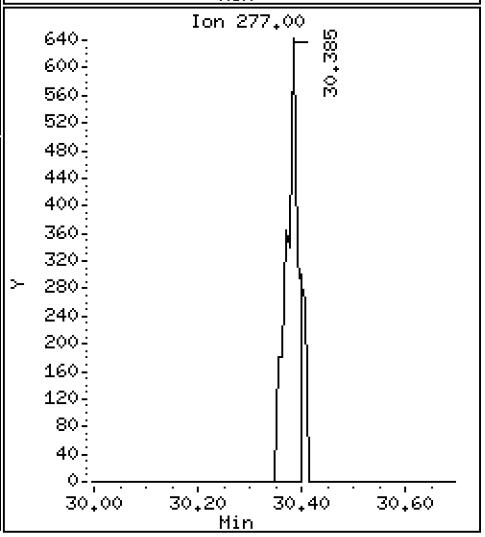


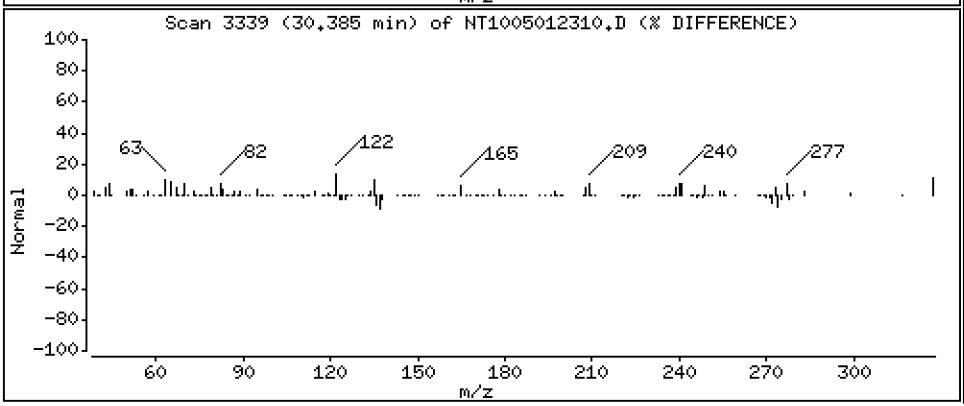












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

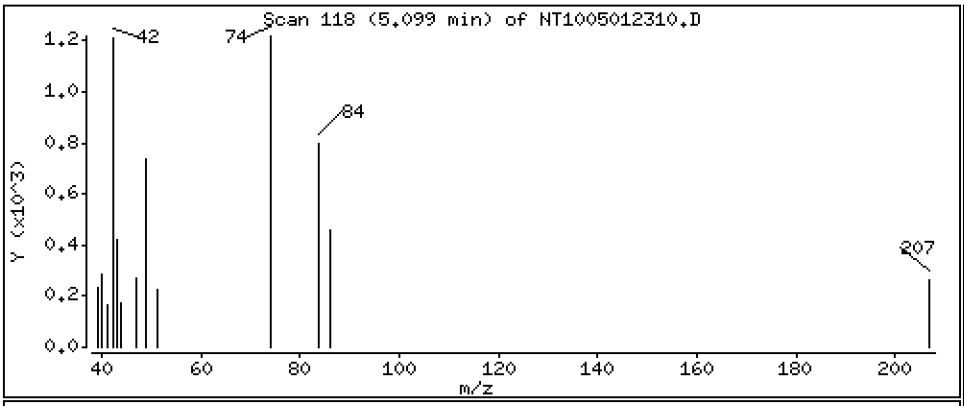
Sample Info: SEQ-SIM1

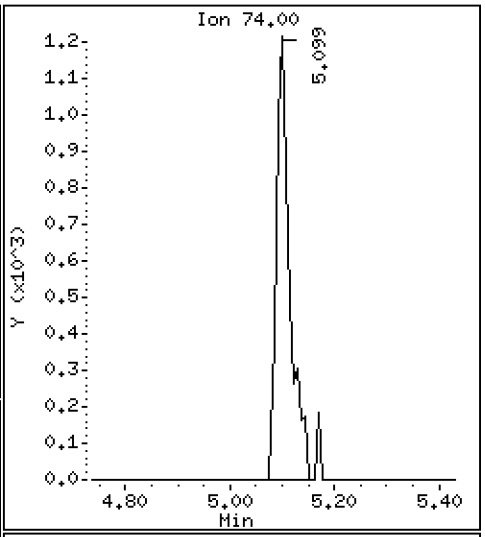
Operator: VTS

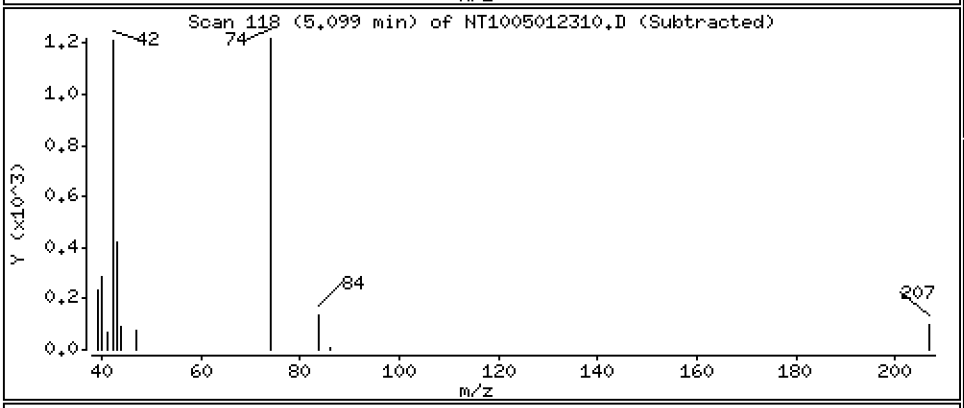
Column phase: ZB-5msi

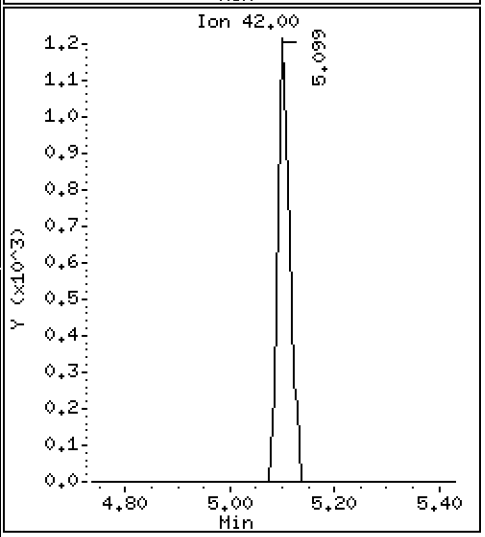
Column diameter: 0.25

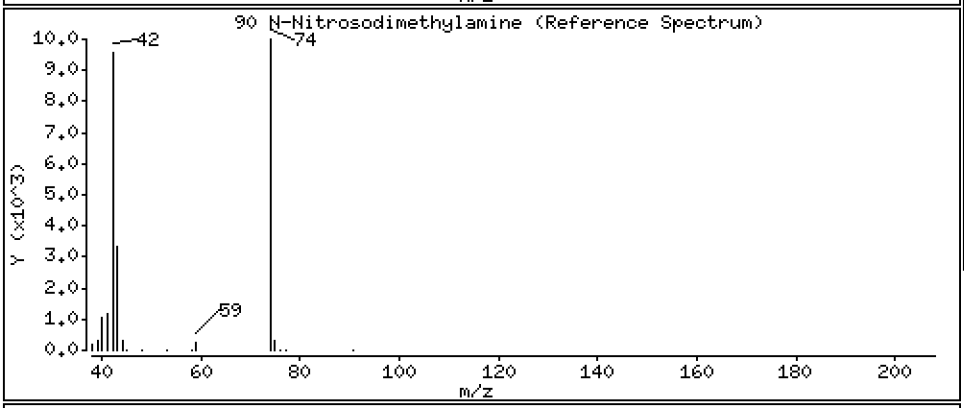
90 N-Nitrosodimethylamine

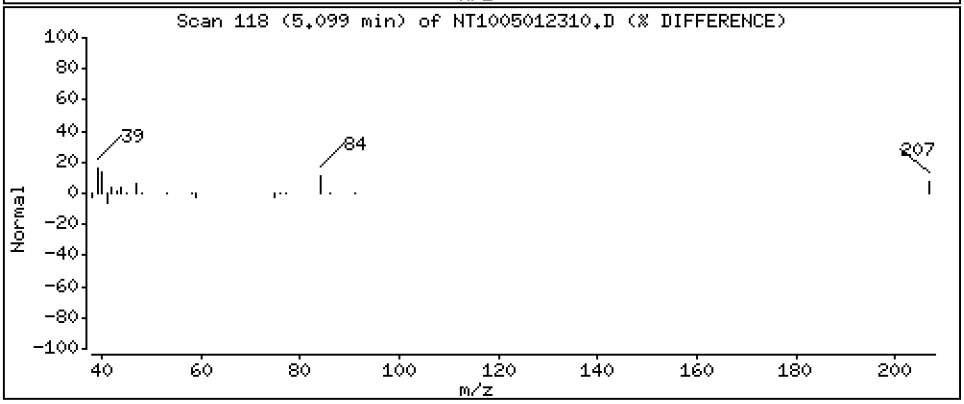












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

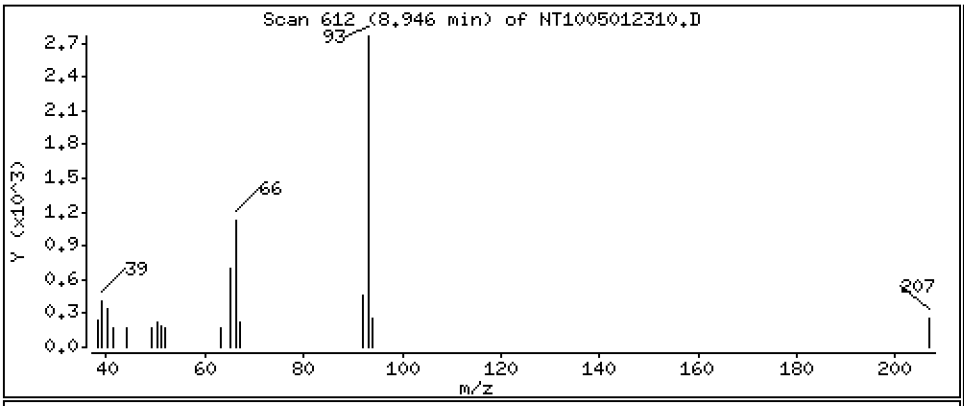
Sample Info: SEQ-SIM1

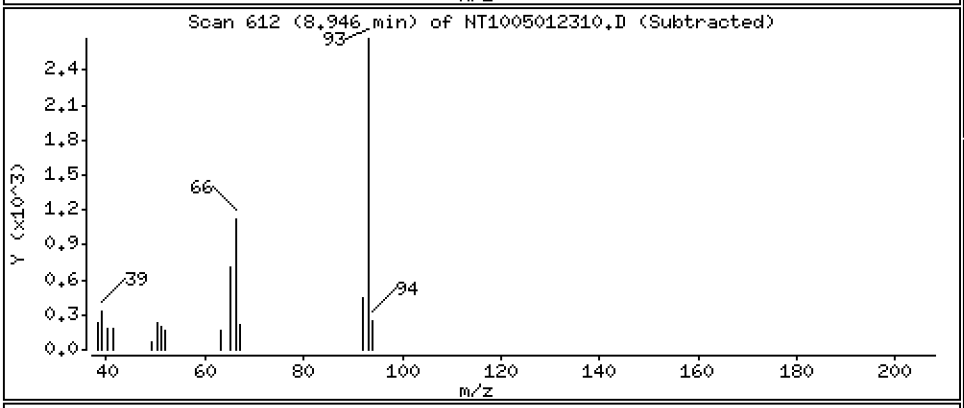
Operator: VTS

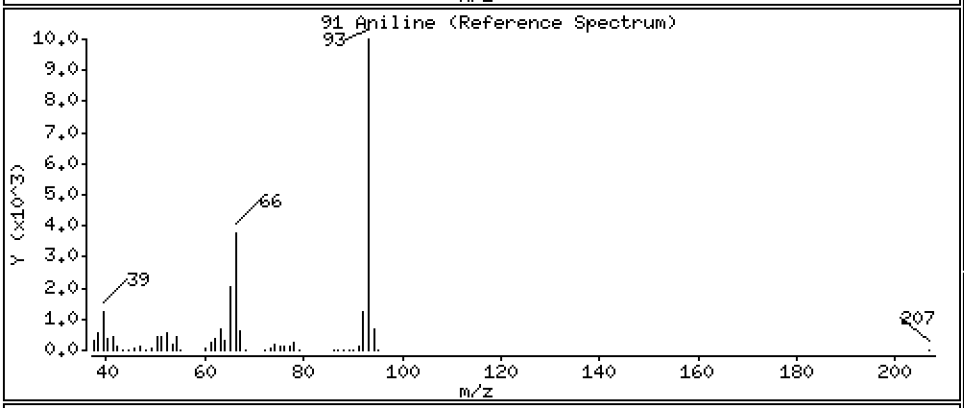
Column phase: ZB-5msi

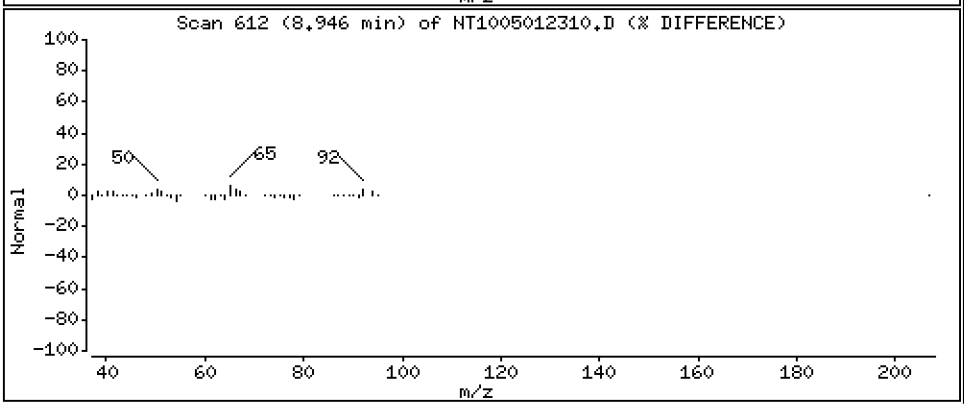
Column diameter: 0.25

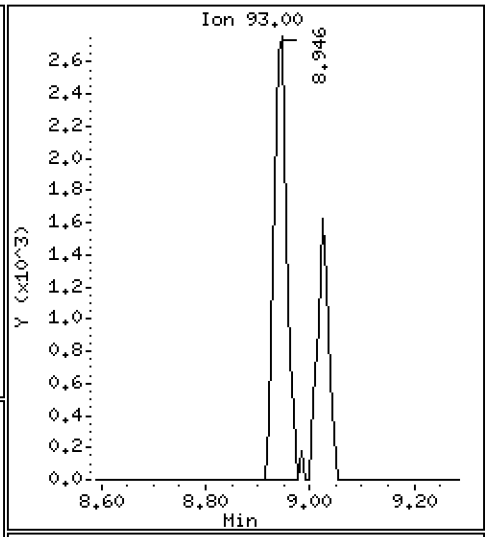
91 Aniline

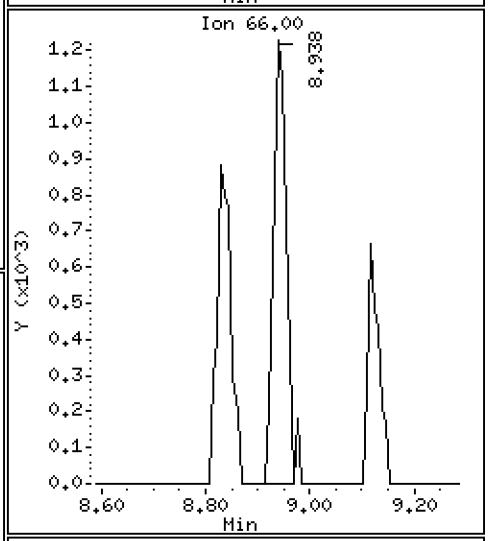


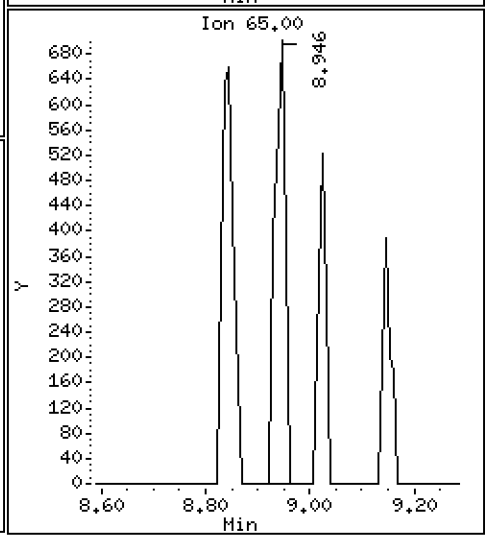












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

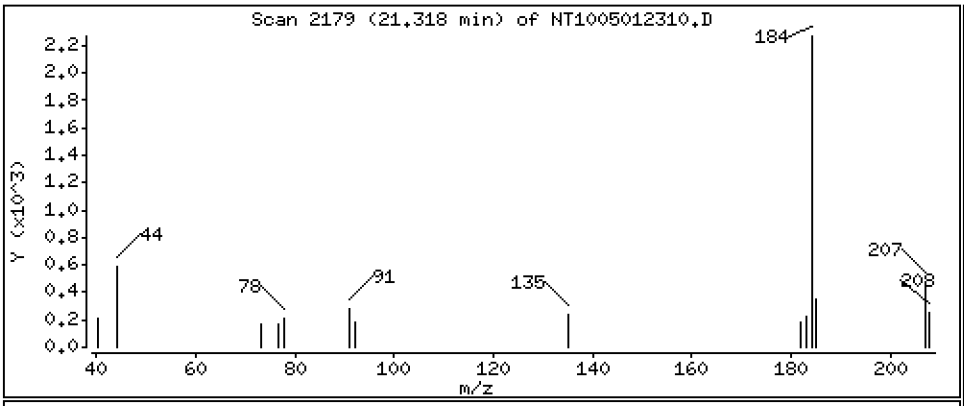
Operator: VTS

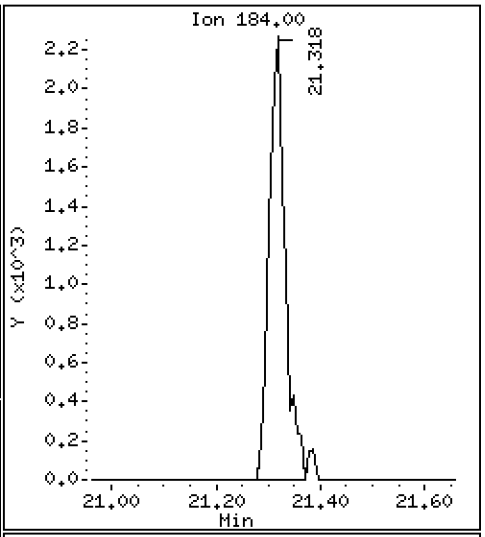
Column phase: ZB-5msi

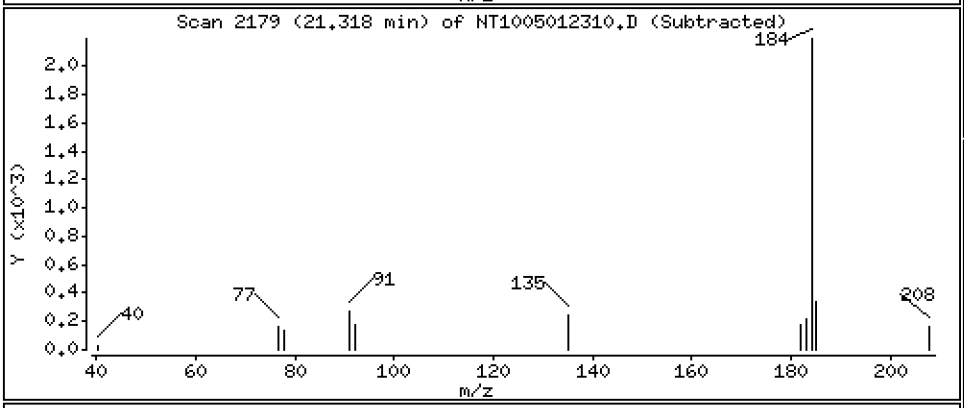
Column diameter: 0.25

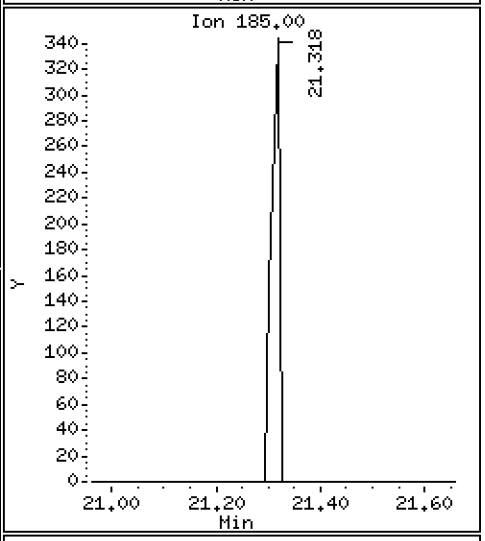
93 Benzidine

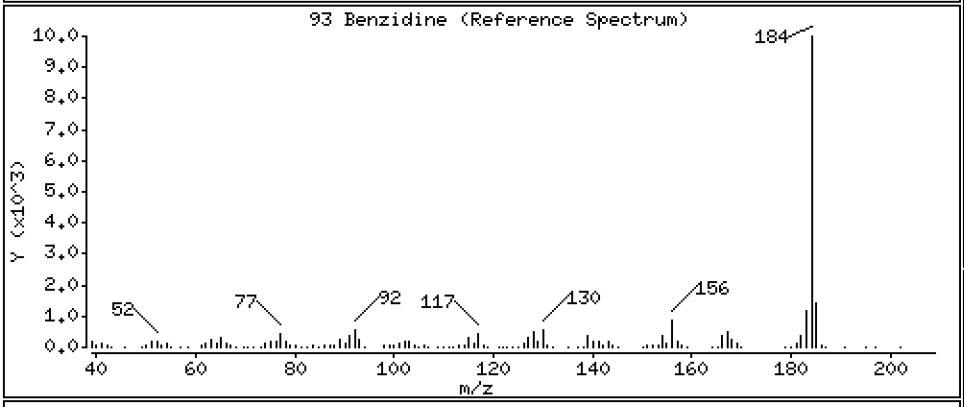
Concentration: 0.07026 ug/mL

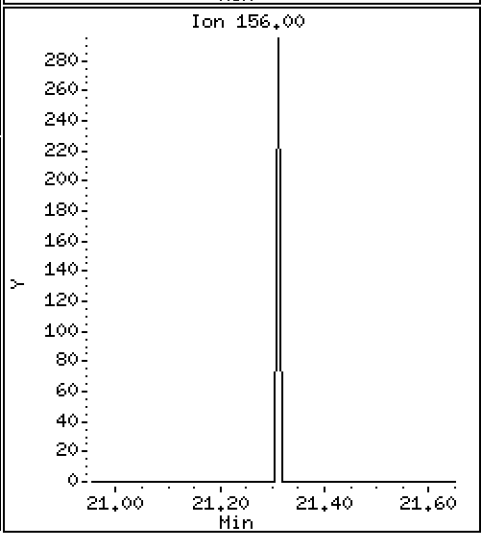


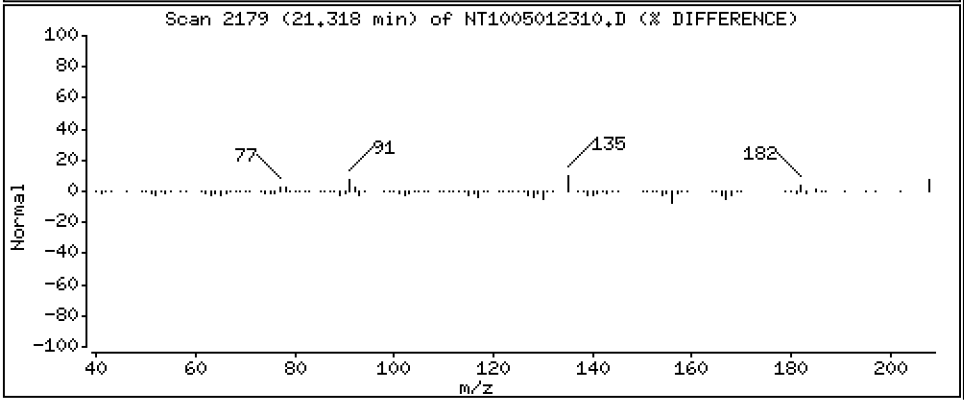












Date : 01-MAY-2023 20:04

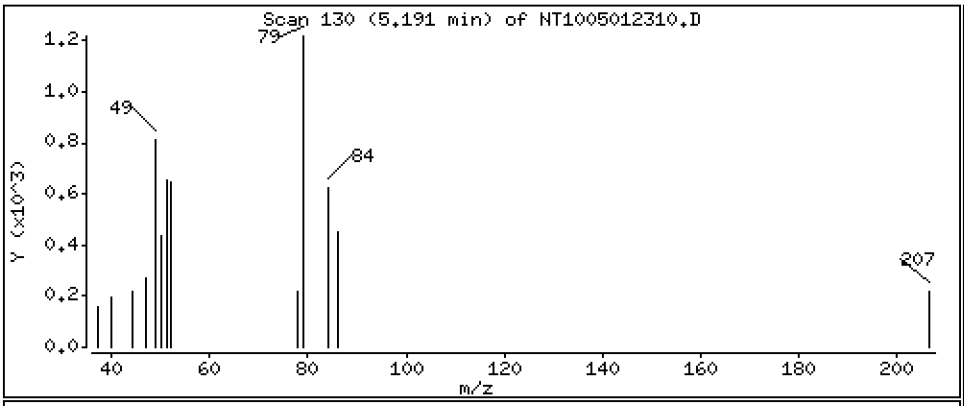
Client ID: Instrument: nt10.i

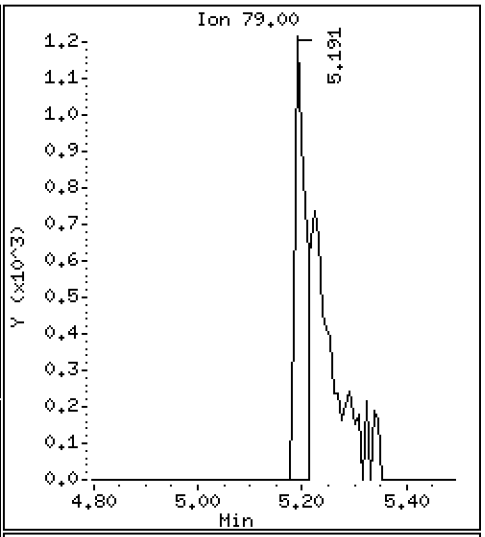
Sample Info: SEQ-SIM1

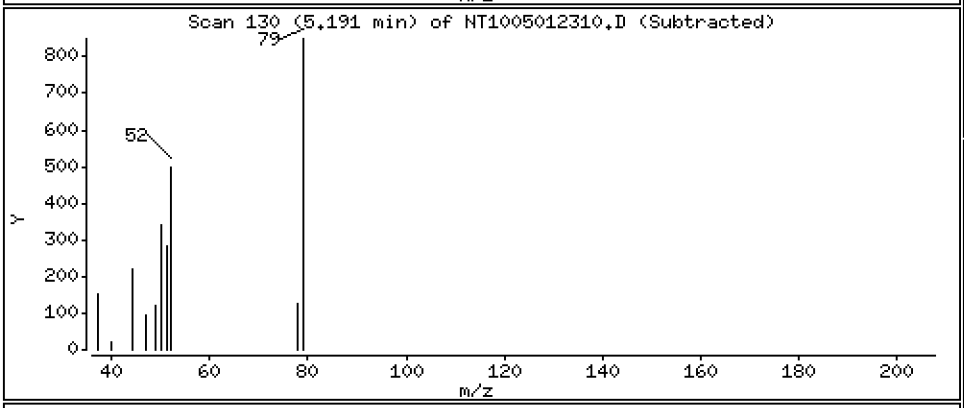
Operator: VTS

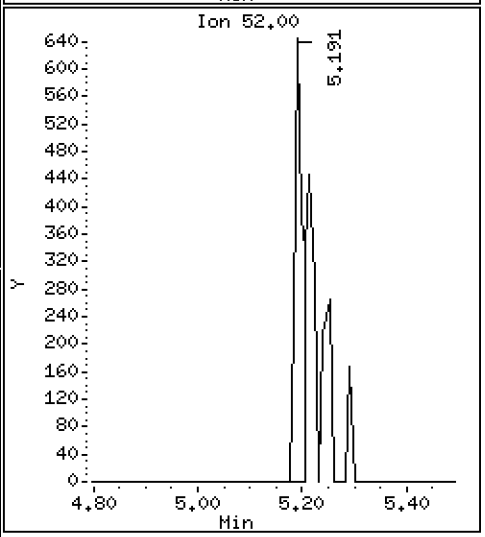
Column phase: ZB-5msi Column diameter: 0.25

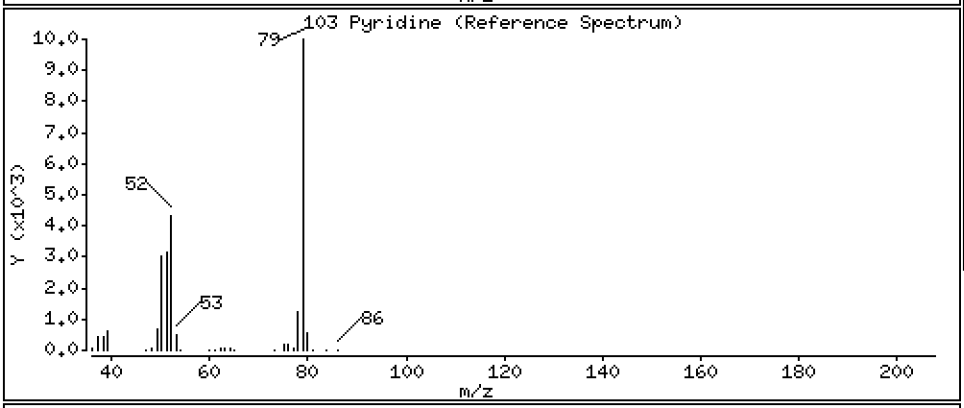
103 Pyridine

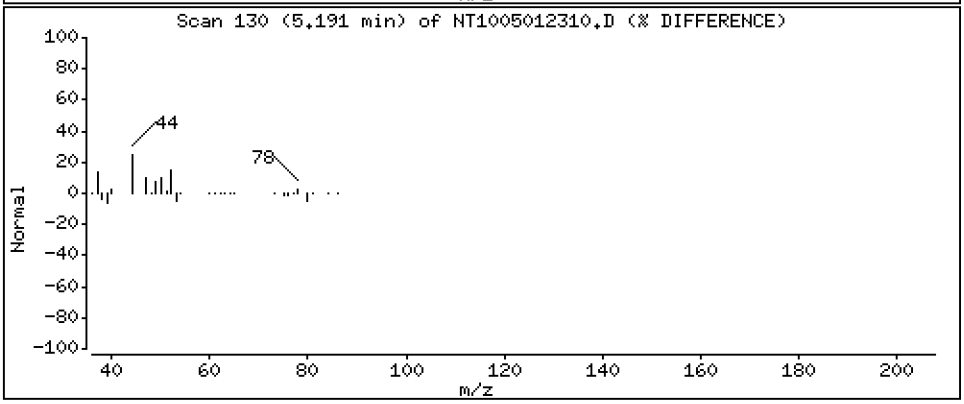












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

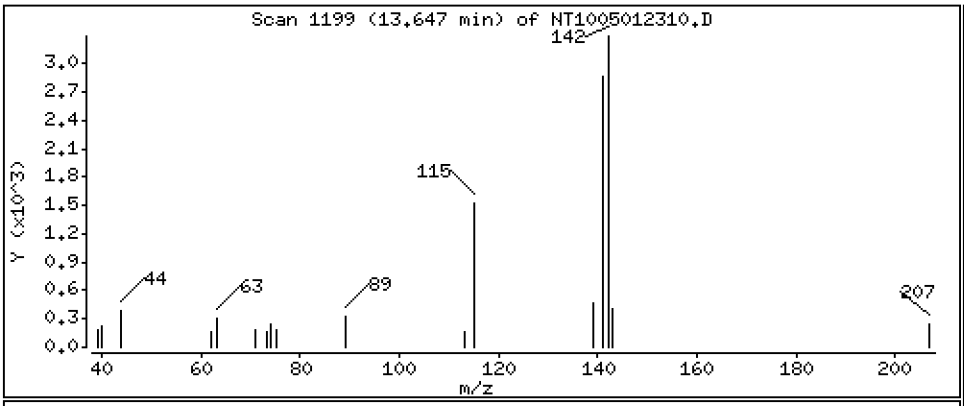
Operator: VTS

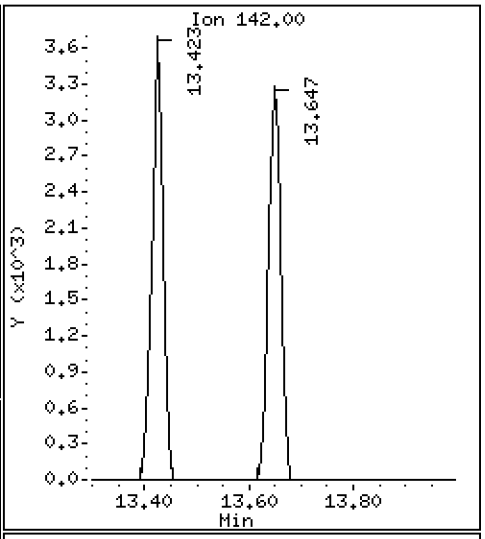
Column phase: ZB-5msi

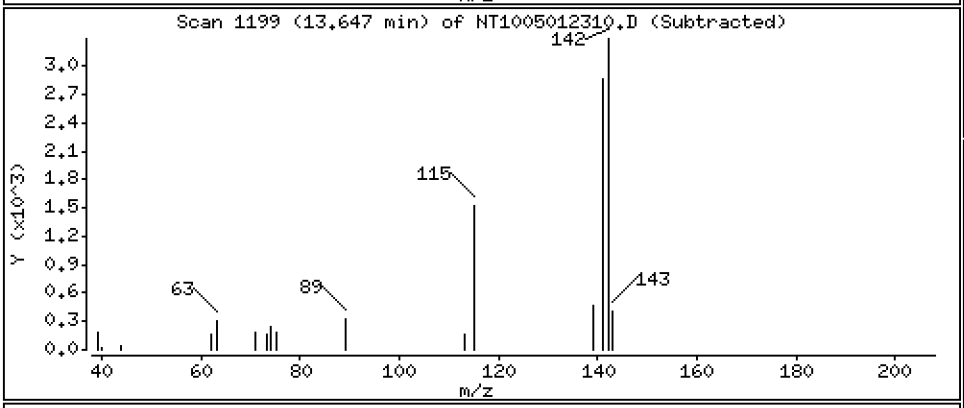
Column diameter: 0.25

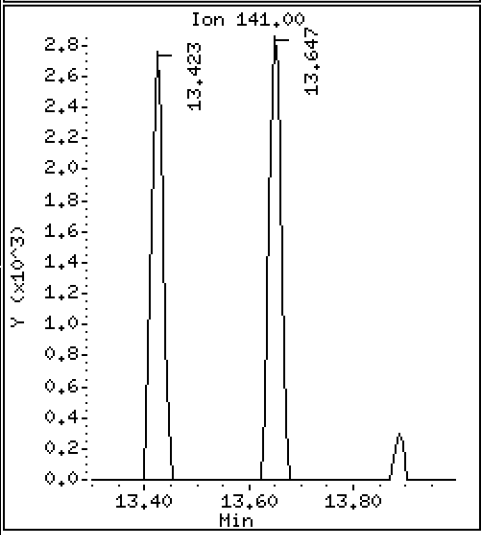
105 1-methylnaphthalene

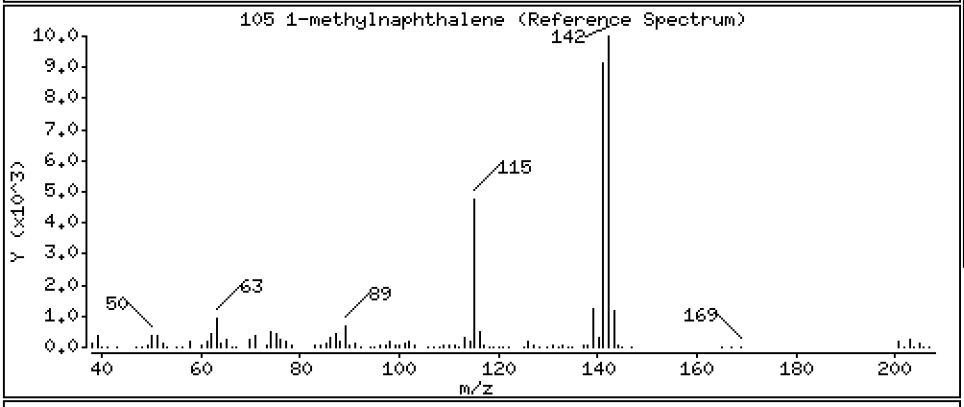
Concentration: 0.04724 ug/mL

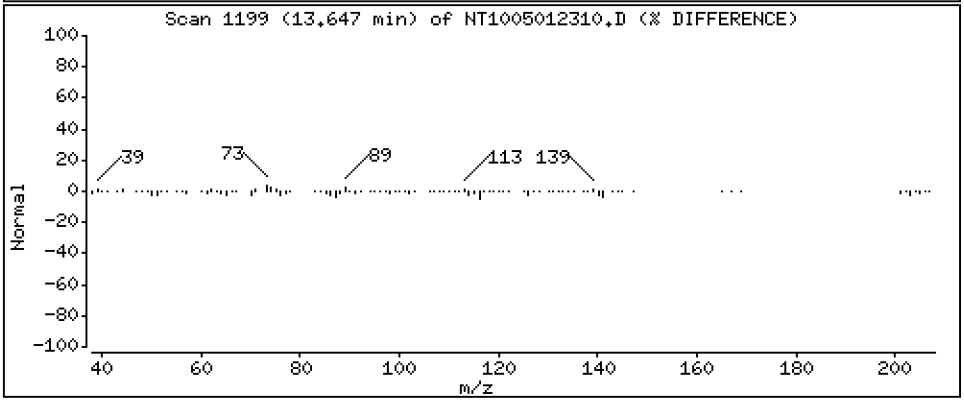












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

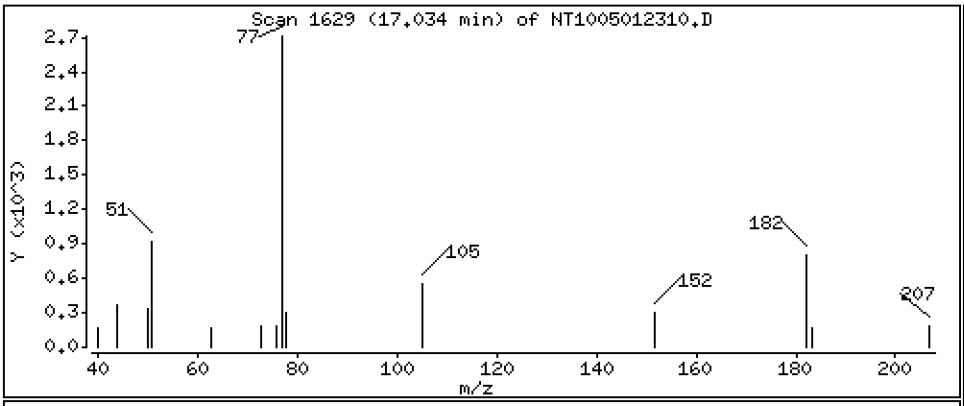
Operator: VTS

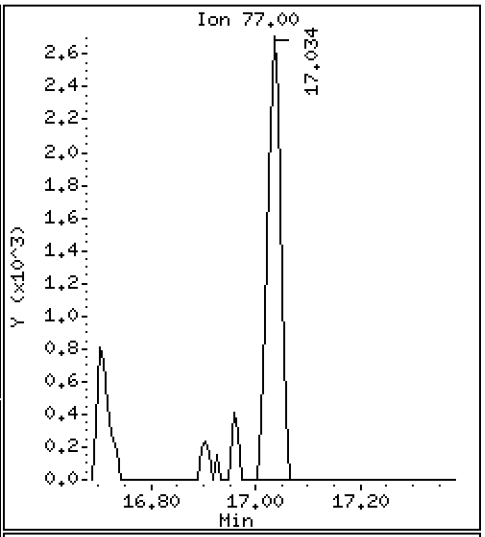
Column phase: ZB-5msi

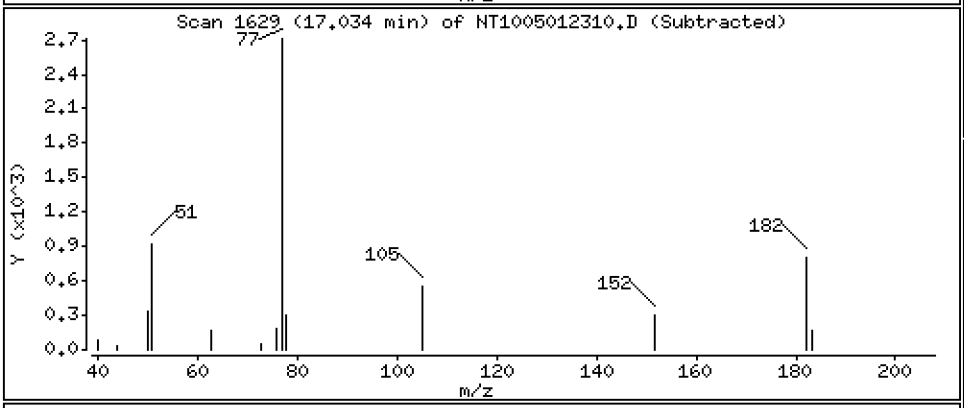
Column diameter: 0.25

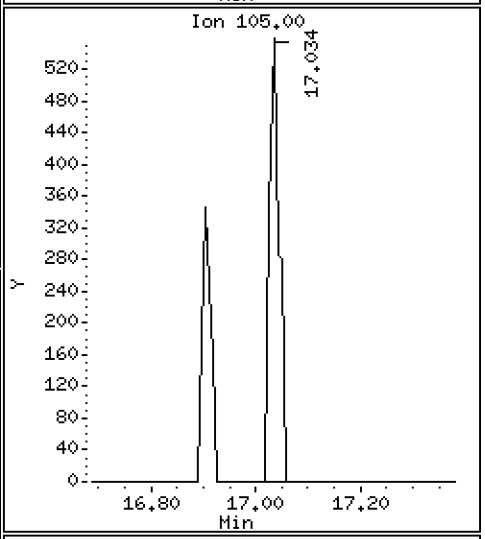
111 Azobenzene (1,2-DP-Hydrazine)

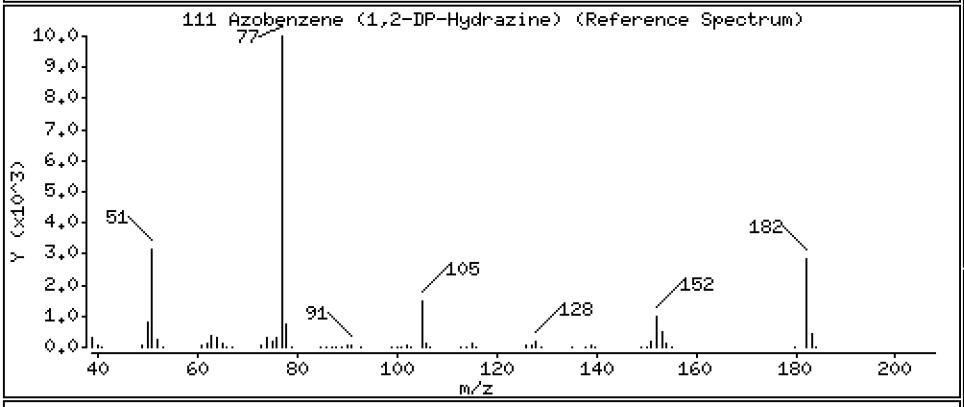
Concentration: 0.03961 ug/mL

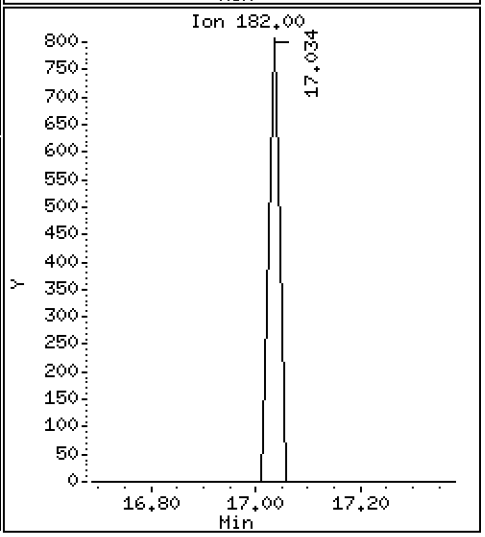


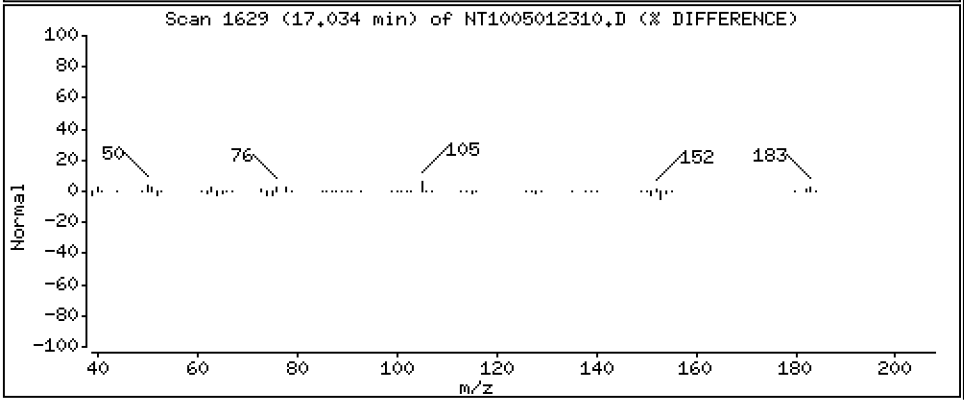












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

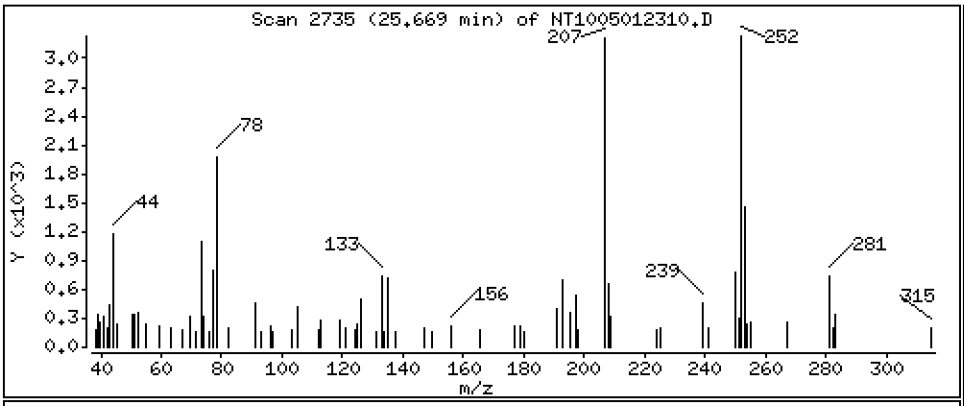
Operator: VTS

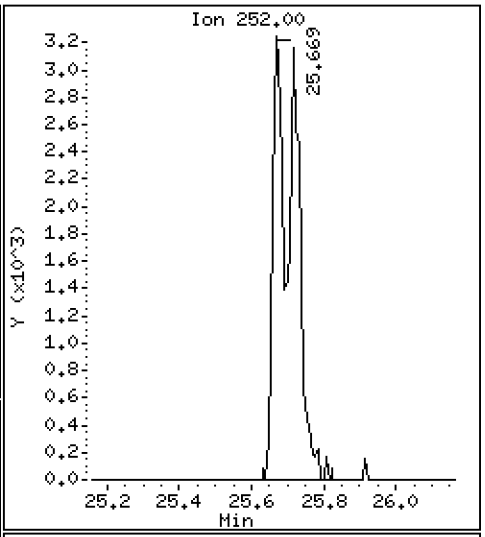
Column phase: ZB-5msi

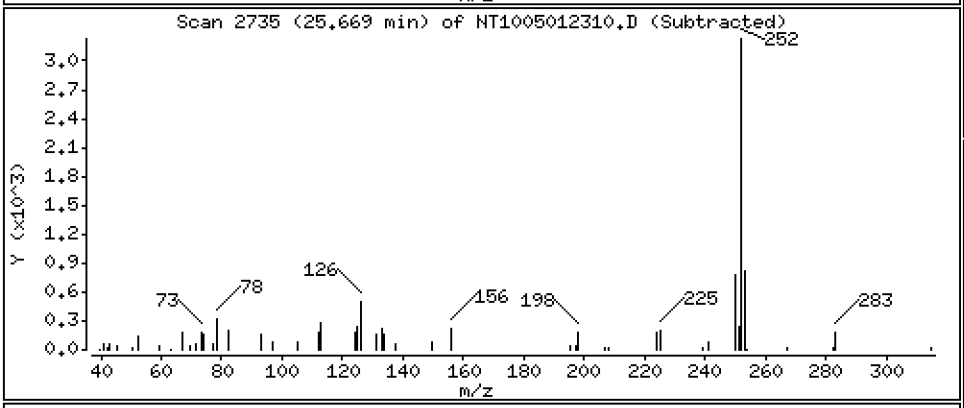
Column diameter: 0.25

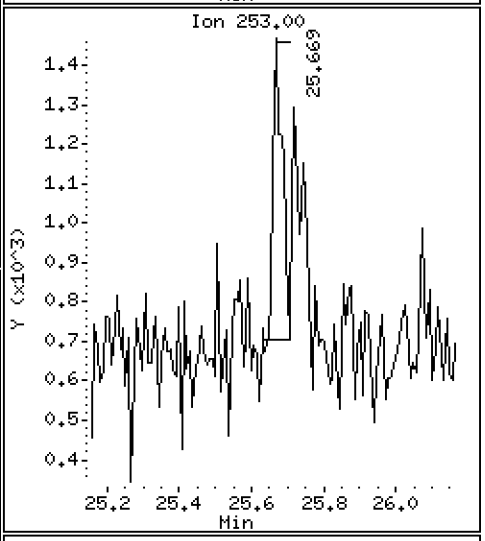
187 Total Benzofluoranthenes

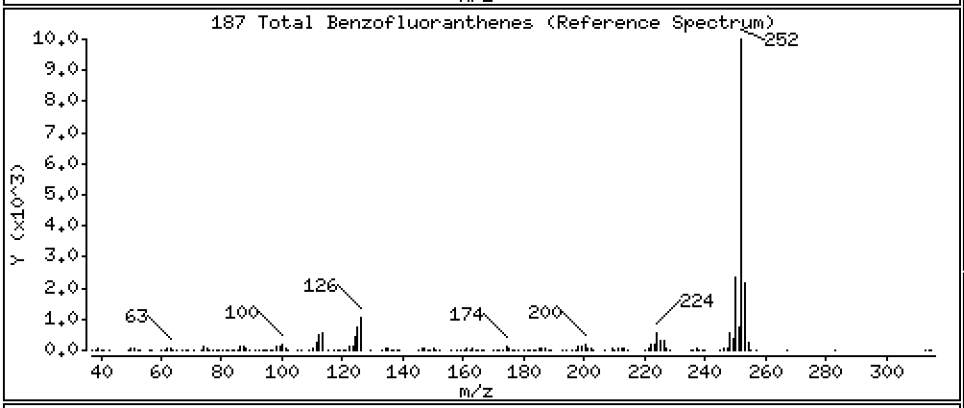
Concentration: 0.08697 ug/mL

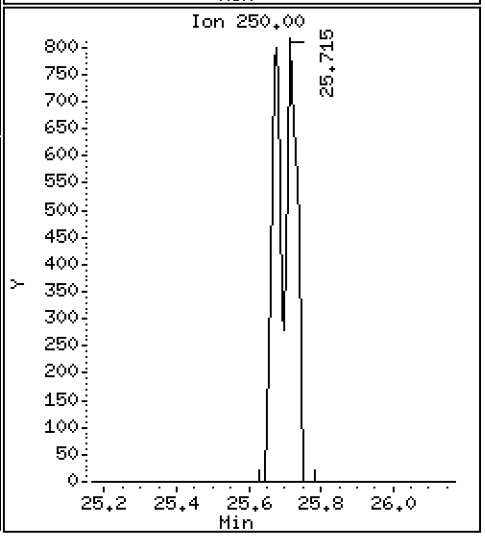


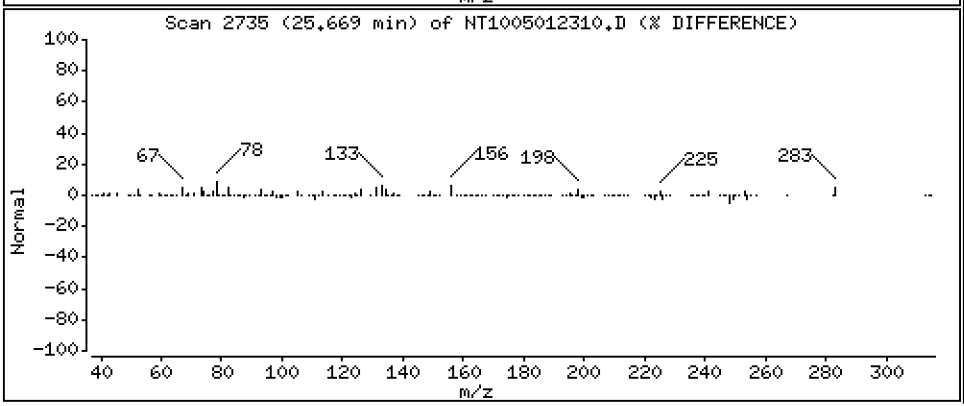












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Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

Sample Info: SEQ-SIM1

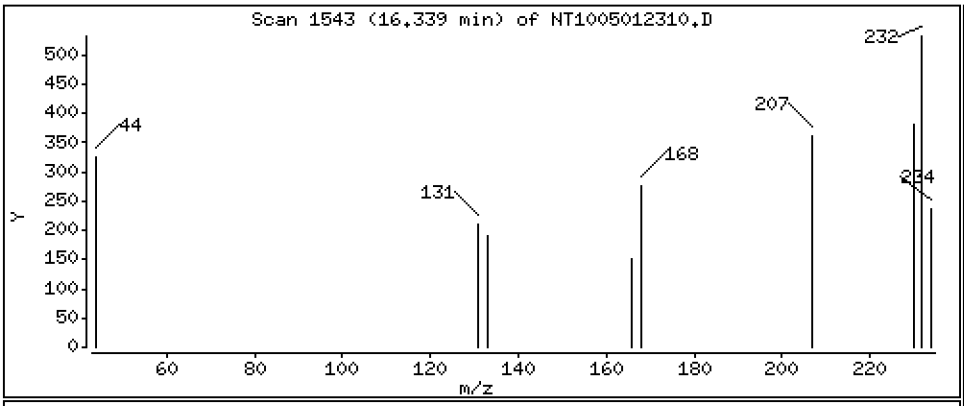
Operator: VTS

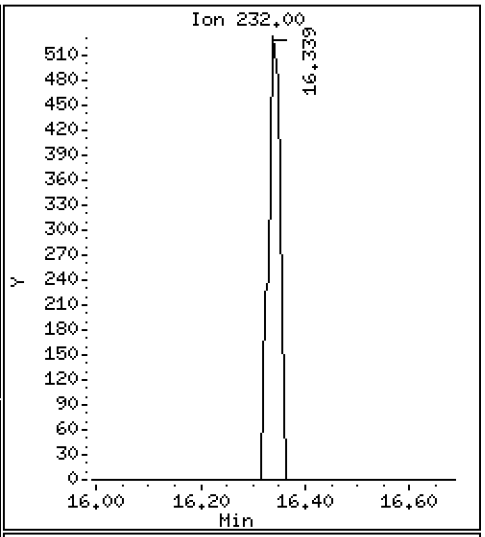
Column phase: ZB-5msi

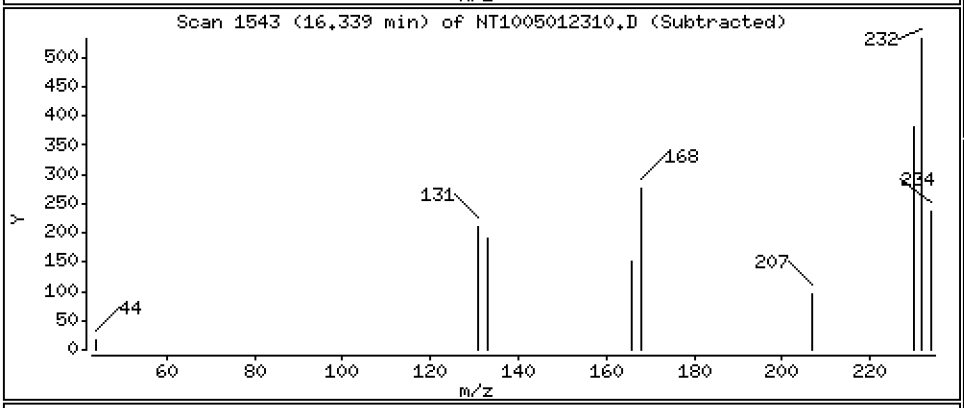
Column diameter: 0.25

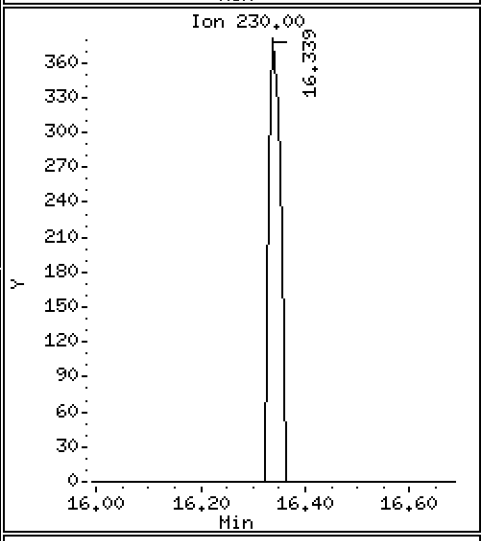
120 2,3,4,6-Tetrachlorophenol

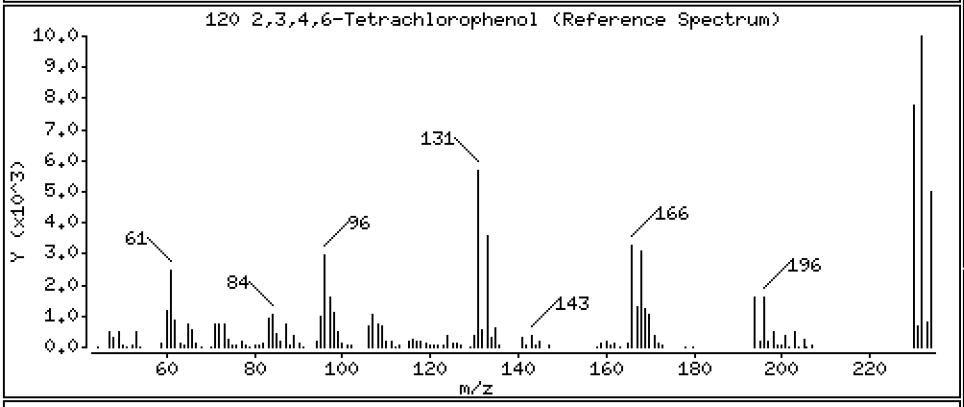
Concentration: 0.02058 ug/mL

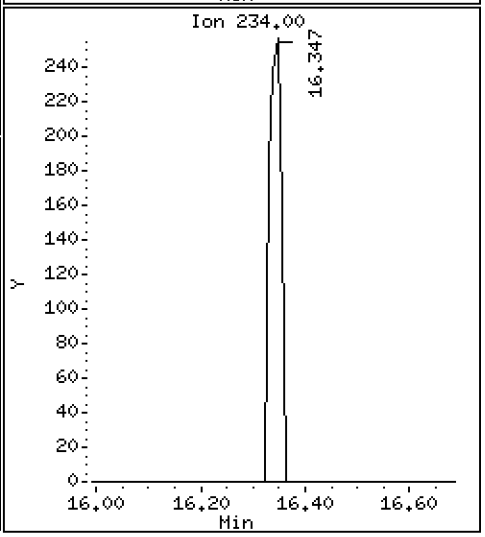


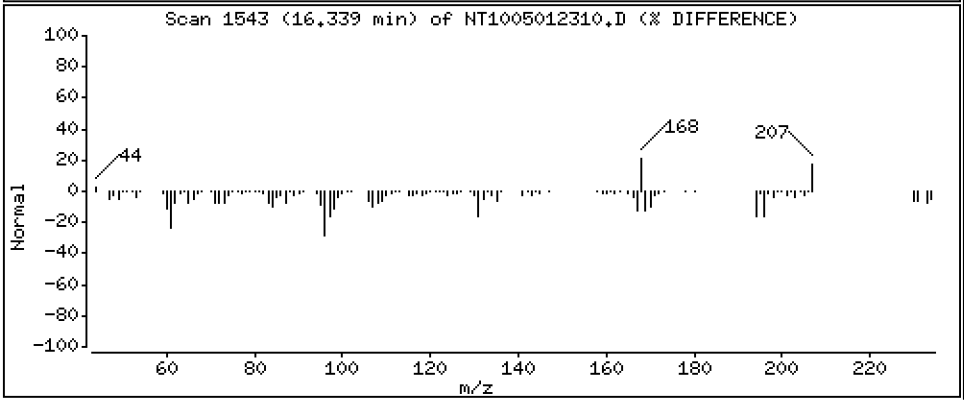












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012310.D
Lab Smp Id: SEQ-SIM1
Inj Date : 01-MAY-2023 20:04
Operator : VTS Inst ID: nt10.i
Smp Info : SEQ-SIM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.238	7.230	(1.000)	2860		
$	2 Phenol-d5	99	8.814	8.814	(1.000)	3465		
	3 Phenol	94	8.837	8.837	(1.000)	2901		
$	5 2-Chlorophenol-d4	132	9.123	9.123	(1.000)	3328		
	4 Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	2415		
	6 2-Chlorophenol	128	9.146	9.146	(1.000)	2453		
	7 1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	3210		
*	8 1,4-Dichlorobenzene-d4	152	Compound Not Detected.					
	9 1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	3042		
$	10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	9.883	9.875	(1.000)	3069		
	11 Benzyl alcohol	108	9.751	9.750	(1.000)	949		
	14 2,2'-oxybis(1-Chloropropane)	121	10.038	10.046	(1.000)	394		
	13 2-Methylphenol	108	9.960	9.960	(1.000)	1766		
	17 Hexachloroethane	117	10.473	10.472	(1.000)	1316		
	16 N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	1444		
	15 4-Methylphenol	108	10.232	10.232	(1.000)	2526		
$	18 Nitrobenzene-d5	82	10.589	10.589	(0.884)	2697	0.04305	0.04305
	19 Nitrobenzene	77	10.620	10.628	(0.886)	2680	0.04426	0.04426
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	918	0.02849	0.02849
	22 2,4-Dimethylphenol	107	11.283	11.283	(0.942)	4523	0.07650	0.07650
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.959)	2281	0.04951	0.04951
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	11.699	11.698	(0.976)	2819	0.06069	0.06069
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.993)	2788	0.04191	0.04191
*	27 Naphthalene-d8	136	11.983	11.983	(1.000)	560619	4.00000	
	28 Naphthalene	128	12.022	12.022	(1.003)	7766	0.04965	0.04965
	29 4-Chloroaniline	127	12.146	12.145	(1.014)	3929	0.06826	0.06826
	30 Hexachlorobutadiene	225	12.377	12.377	(1.033)	1587	0.04326	0.04326
	31 4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	3159	0.06241	0.06241
	32 2-Methylnaphthalene	142	13.422	13.422	(1.120)	5327	0.04555	0.04555
	33 Hexachlorocyclopentadiene	237	13.894	13.886	(0.890)	2764	0.07556	0.07556
	34 2,4,6-Trichlorophenol	196	14.033	14.041	(0.898)	2110	0.05856	0.05856

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	2226	0.05665	0.05665
$	36	2-Fluorobiphenyl	172	14.204	14.203	(0.909)	6192	0.04862	0.04862
	37	2-Chloronaphthalene	162	14.420	14.420	(0.923)	4974	0.04959	0.04959
	38	2-Nitroaniline	65	14.676	14.676	(0.940)	1494	0.05129	0.05129
	39	Dimethylphthalate	163	15.101	15.101	(0.967)	5327	0.04723	0.04723
	40	Acenaphthylene	152	15.303	15.303	(0.980)	6798	0.04342	0.04342
	41	2,6-Dinitrotoluene	165	15.249	15.248	(0.976)	1298	0.05099	0.05099
*	42	Acenaphthene-d10	164	15.620	15.612	(1.000)	294152	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.682	15.682	(1.004)	4872	0.04893	0.04893
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	16.006	16.006	(1.025)	7210	0.04966	0.04966
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	16.053	16.060	(1.028)	1558	0.04297	0.04297
	50	Diethylphthalate	149	16.563	16.555	(1.060)	4834	0.04128	0.04128
	49	Fluorene	166	16.733	16.725	(1.071)	4866	0.04063	0.04063
	51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	2695	0.04519	0.04519
	52	4-Nitroaniline	138	16.818	16.810	(1.077)	1047	0.04301	0.04301
	53	4,6-Dinitro-2-methylphenol	198	16.903	16.902	(0.905)	822	0.03962	0.03962
	54	N-Nitrosodiphenylamine	169	16.957	16.956	(0.908)	2918	0.04146	0.04146
$	55	2,4,6-Tribromophenol	330	17.273	17.265	(1.106)	272	0.01931	0.01931
	56	4-Bromophenyl-phenylether	248	17.728	17.712	(0.949)	1339	0.04030	0.04030
	57	Hexachlorobenzene	284	18.045	18.044	(0.966)	1955	0.05862	0.05862
	58	Pentachlorophenol	266	18.401	18.393	(0.985)	691	0.03046	0.03046
*	59	Phenanthrene-d10	188	18.672	18.671	(1.000)	532621	4.00000	
	60	Phenanthrene	178	18.718	18.718	(1.002)	8209	0.05253	0.05253
	61	Anthracene	178	18.819	18.811	(1.008)	5725	0.03964	0.03964
	62	Carbazole	167	19.136	19.136	(1.025)	5051	0.03951	0.03951
	63	Di-n-butylphthalate	149	19.902	19.901	(1.066)	5969	0.03123	0.03123
	64	Fluoranthene	202	21.085	21.085	(0.890)	7356	0.03890	0.03890
	65	Pyrene	202	21.511	21.503	(0.908)	8065	0.04269	0.04269
$	66	Terphenyl-d14	244	21.782	21.774	(0.919)	6499	0.04350	0.04350
	67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	2067	0.02329	0.02329
	68	Benzo(a)anthracene	228	23.663	23.655	(0.999)	8620	0.05140	0.05140
*	69	Chrysene-d12	240	23.694	23.686	(1.000)	423589	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.609	23.601	(0.996)	5947	0.11684	0.1168
	71	Chrysene	228	23.733	23.733	(1.002)	7458	0.04969	0.04969
	72	bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	3072	0.03435	0.03435
*	134	Di-n-octylphthalate-d4	153	24.732	24.724	(1.000)	620933	4.00000	
	73	Di-n-octylphthalate	149	24.747	24.739	(1.001)	9605	0.05863	0.05863
	74	Benzo(b)fluoranthene	252	25.668	25.660	(0.967)	6186	0.03915	0.03915
	75	Benzo(k)fluoranthene	252	25.715	25.715	(0.969)	6231	0.03974	0.03974
	76	Benzo(a)pyrene	252	26.404	26.388	(0.995)	5558	0.04202	0.04202
*	77	Perylene-d12	264	26.536	26.520	(1.000)	384682	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.506	29.483	(1.112)	6353	0.03998	0.03998
	79	Dibenzo(a,h)anthracene	278	29.514	29.491	(1.112)	5493	0.04128	0.04128
	80	Benzo(g,h,i)perylene	276	30.384	30.353	(1.145)	5734	0.04527	0.04527
	90	N-Nitrosodimethylamine	74	5.098	5.083	(1.000)	2240		
	91	Aniline	93	8.945	8.938	(1.000)	4565		
	93	Benzidine	184	21.318	21.310	(0.900)	4739	0.07026	0.07026
	103	Pyridine	79	5.191	5.144	(1.000)	1829		
	105	1-methylnaphthalene	142	13.646	13.646	(1.139)	5065	0.04724	0.04724
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	4531	0.03961	0.03961
	187	Total Benzofluoranthenes	252	25.668	25.660	(0.967)	13229	0.08697	0.08697

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.339	(1.046)	778	0.02058	0.02058

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012310.D
Lab Smp Id: SEQ-SIM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	144303	72152	288606	0	-100.00	<-
27 Naphthalene-d8	493698	246849	987396	560619	13.56	
42 Acenaphthene-d10	279210	139605	558420	294152	5.35	
59 Phenanthrene-d10	521463	260732	1042926	532621	2.14	
69 Chrysene-d12	369911	184956	739822	423589	14.51	
134 Di-n-octylphthala	626668	313334	1253336	620933	-0.92	
77 Perylene-d12	311339	155670	622678	384682	23.56	

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF	
8 1,4-Dichlorobenze	9.49	8.99	9.99	0.00	-100.00	<-
27 Naphthalene-d8	11.99	11.49	12.49	11.98	-0.06	
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00	
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04	
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03	
134 Di-n-octylphthala	24.75	24.25	25.25	24.73	-0.06	
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06	

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

REVIEW SUMMARY FOR FILE - NT1005012310.D

Lab ID: SEQ-SIM1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 20:04

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.059	-0.0589	2,2'-oxybis(1-Chloropropane)

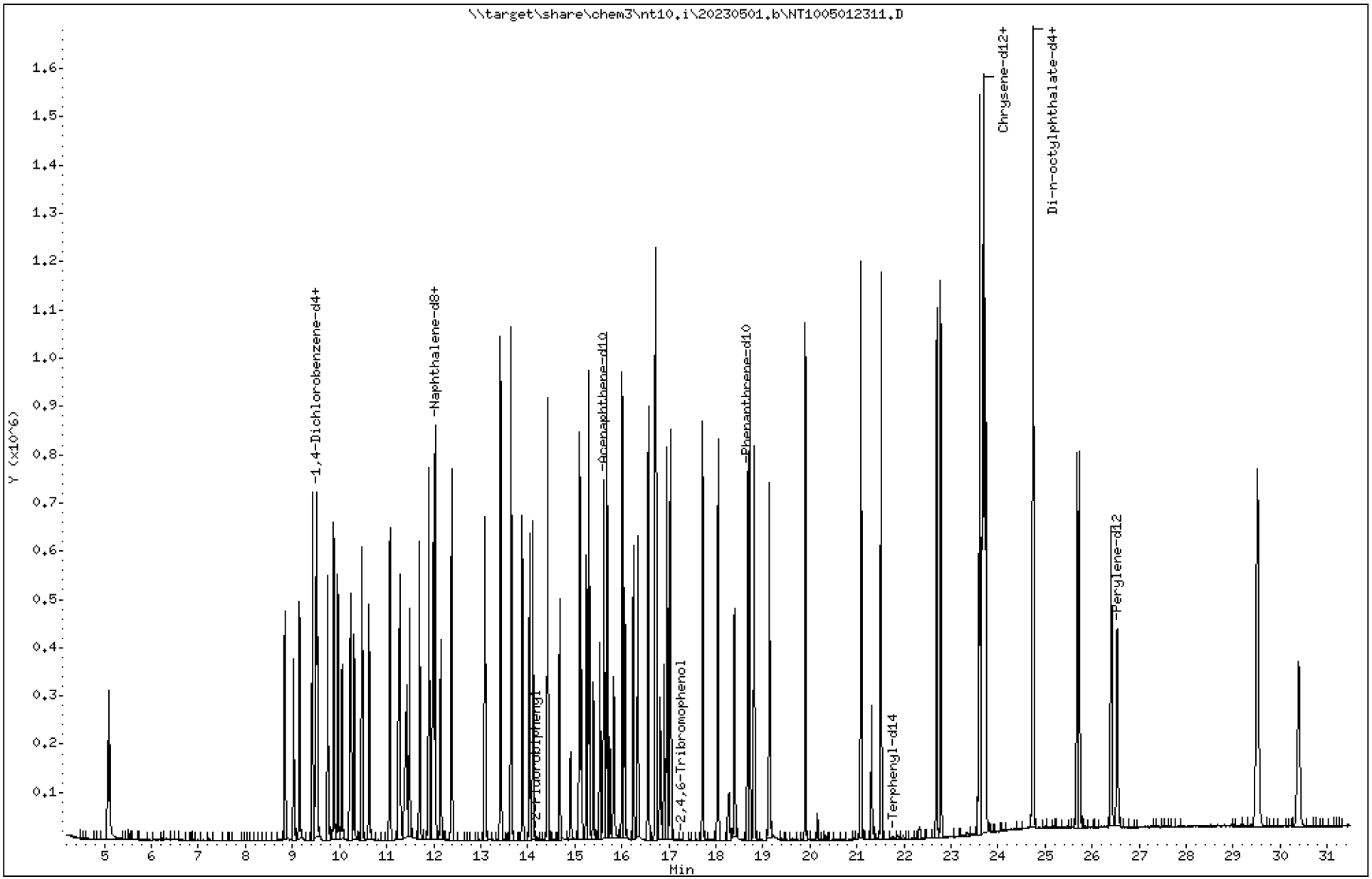
RRT check based on Ccal File: NT1005012308.D

On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Date : 01-MAY-2023 20:43
Client ID:
Sample Info: SLE0036-SCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 755 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

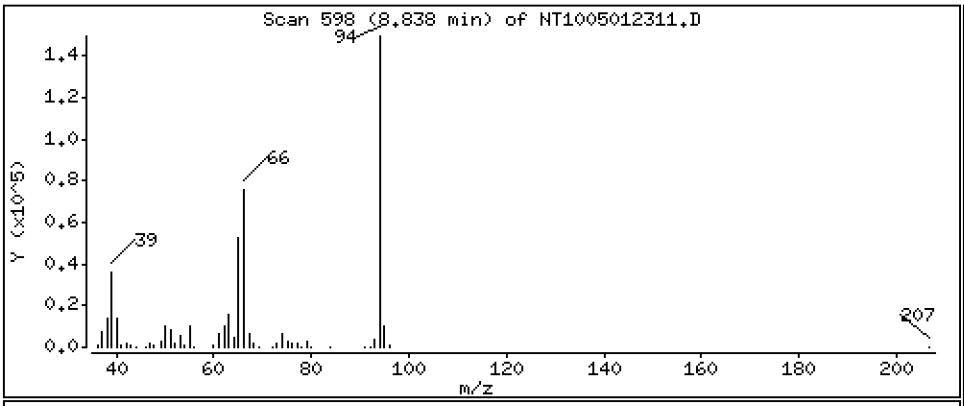
Operator: VTS

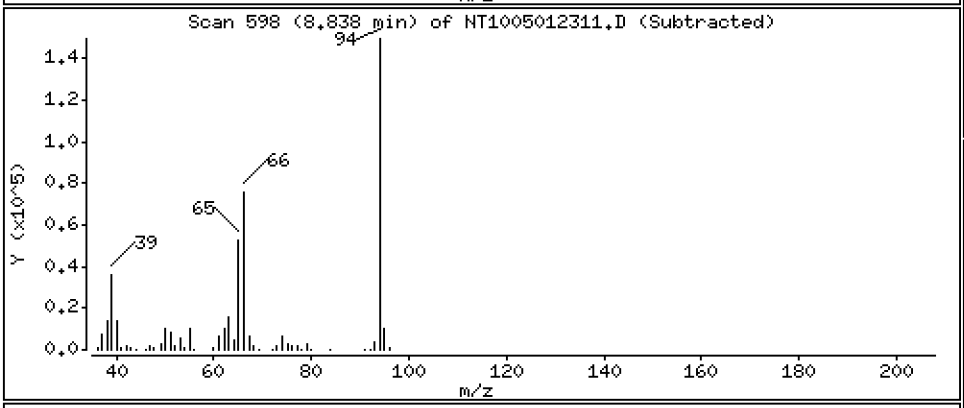
Column phase: ZB-5msi

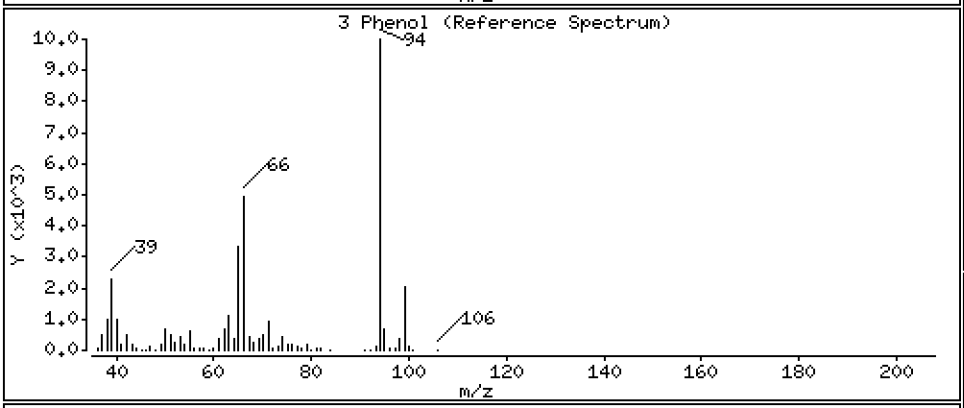
Column diameter: 0.25

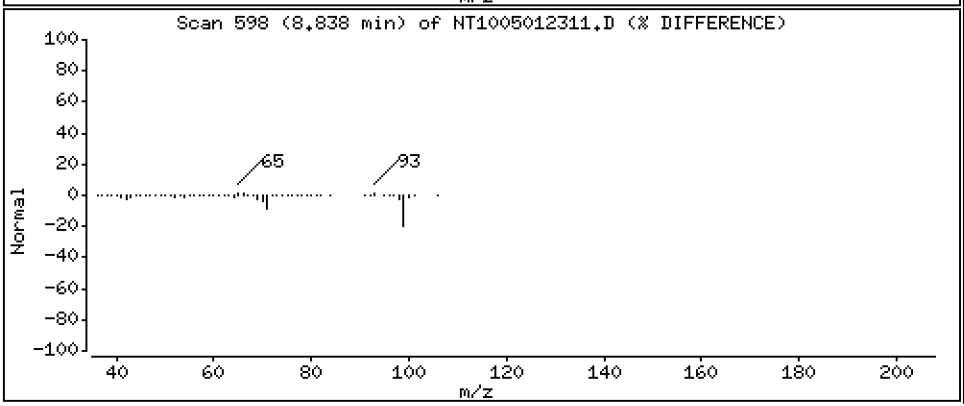
3 Phenol

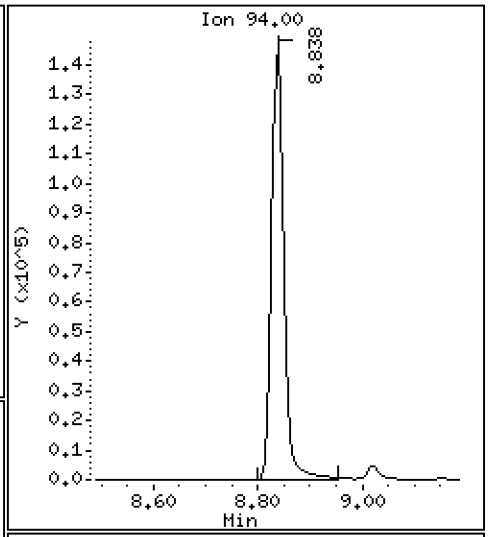
Concentration: 4.483 ug/mL

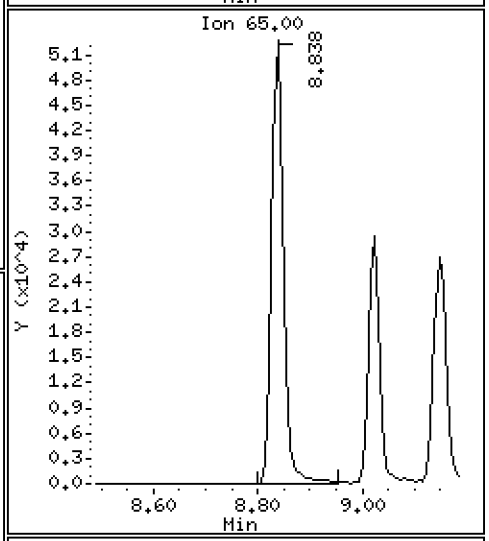


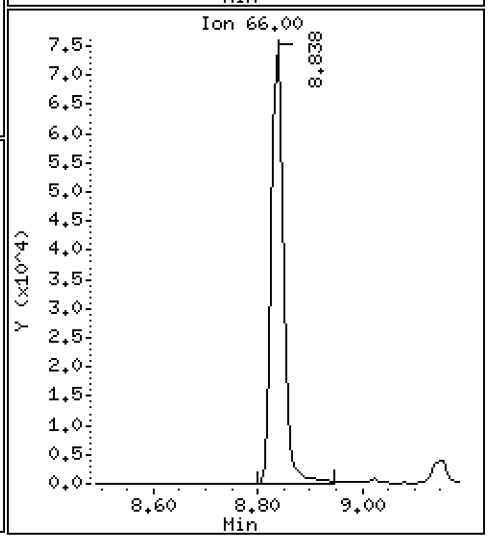












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

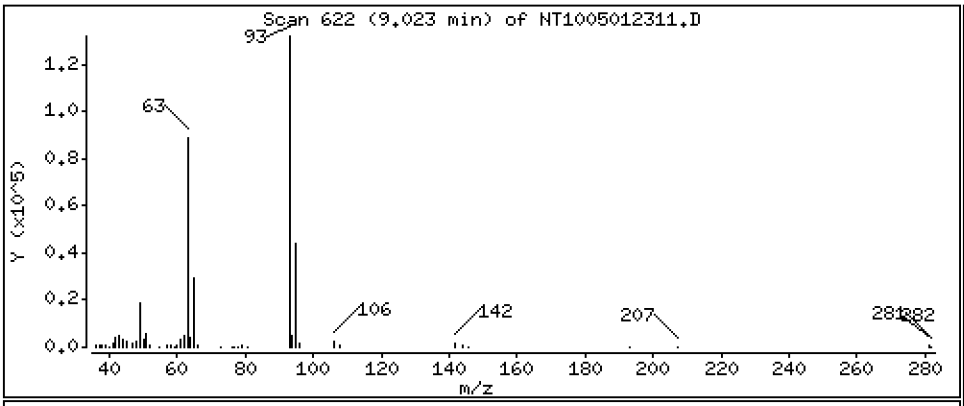
Operator: VTS

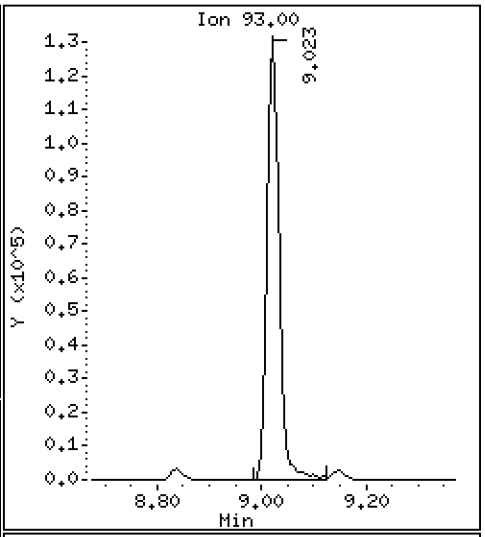
Column phase: ZB-5msi

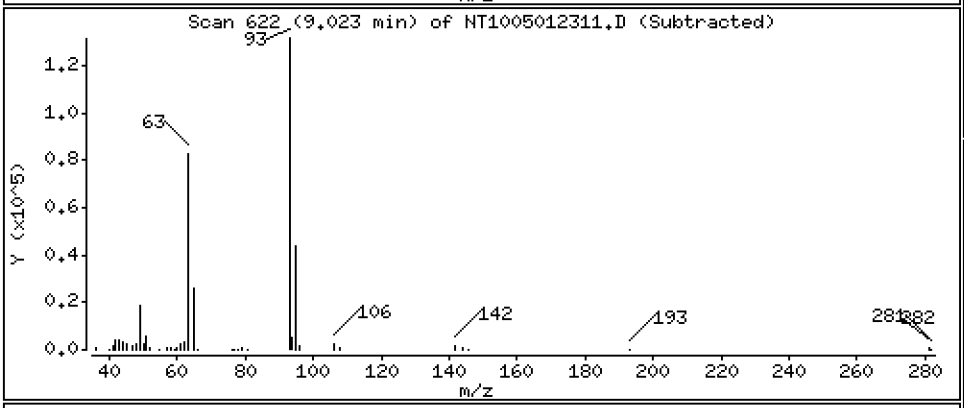
Column diameter: 0.25

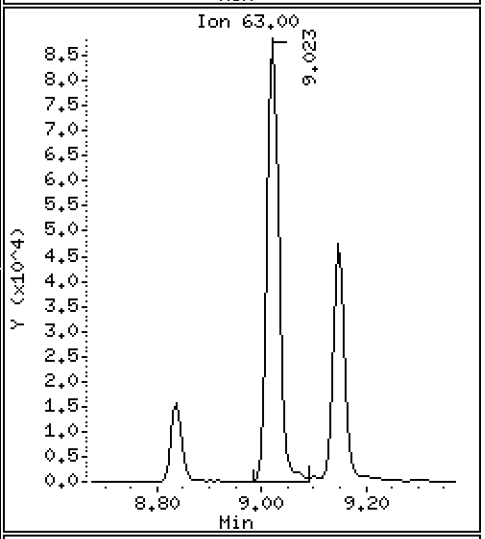
4 Bis(2-Chloroethyl)ether

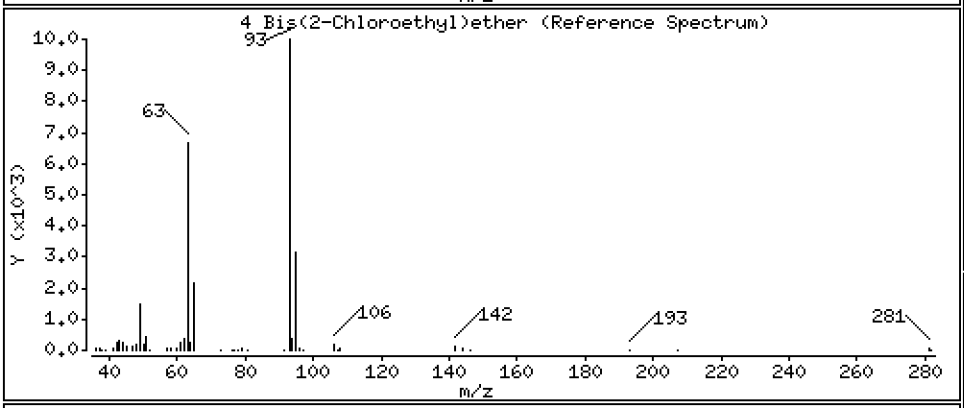
Concentration: 5.502 ug/mL

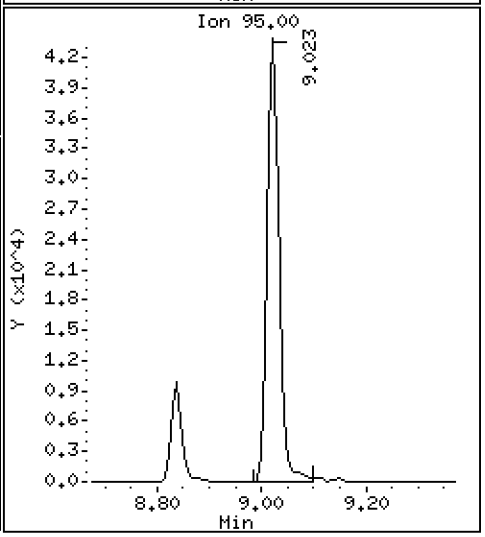


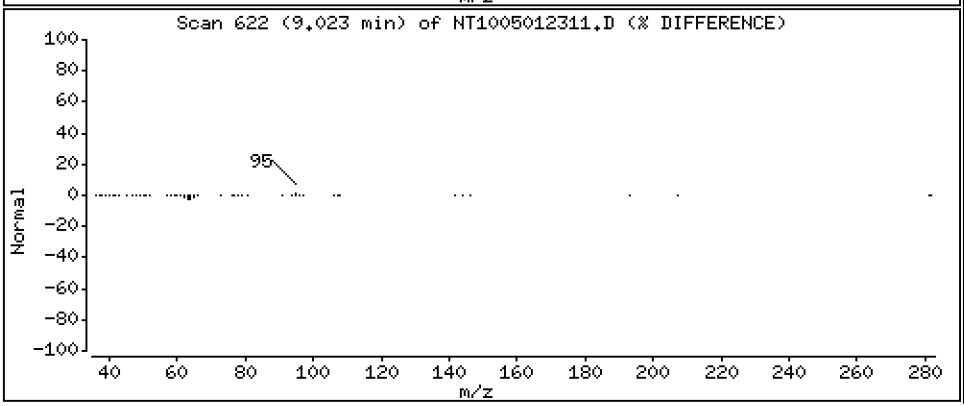












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

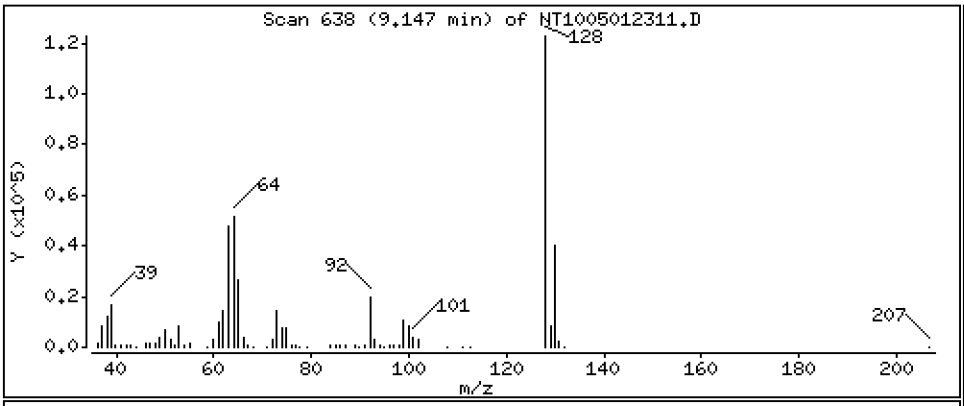
Operator: VTS

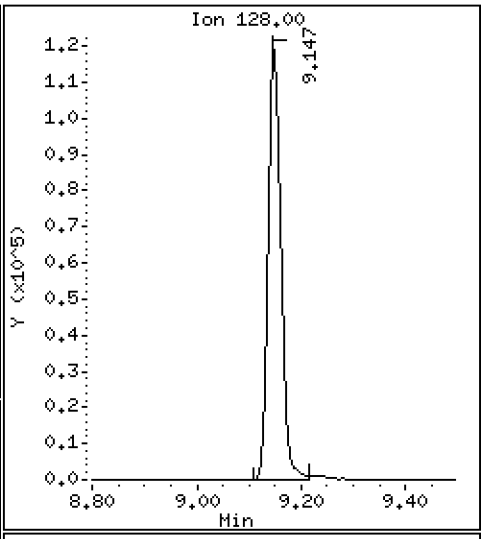
Column phase: ZB-5msi

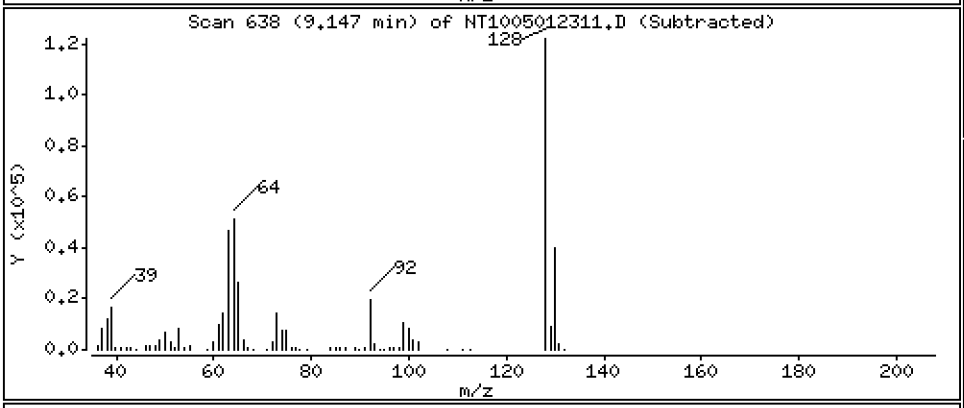
Column diameter: 0.25

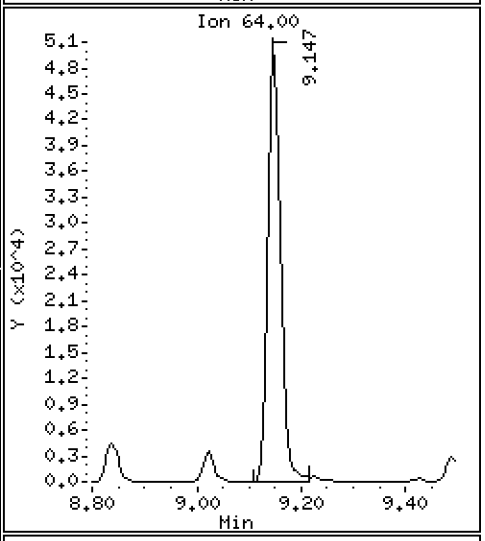
6 2-Chlorophenol

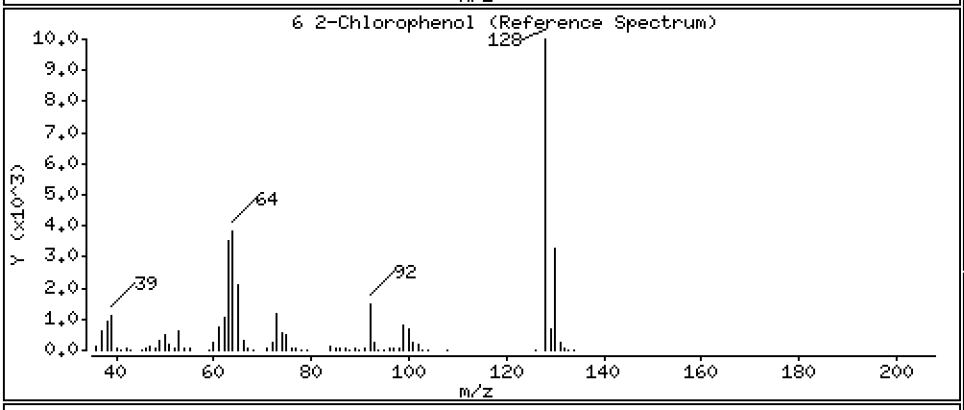
Concentration: 4.456 ug/mL

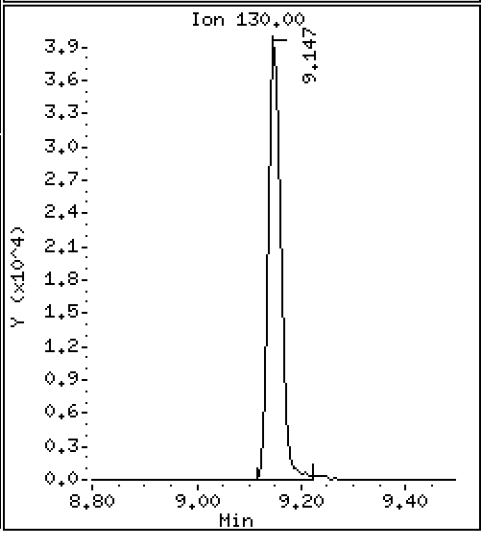


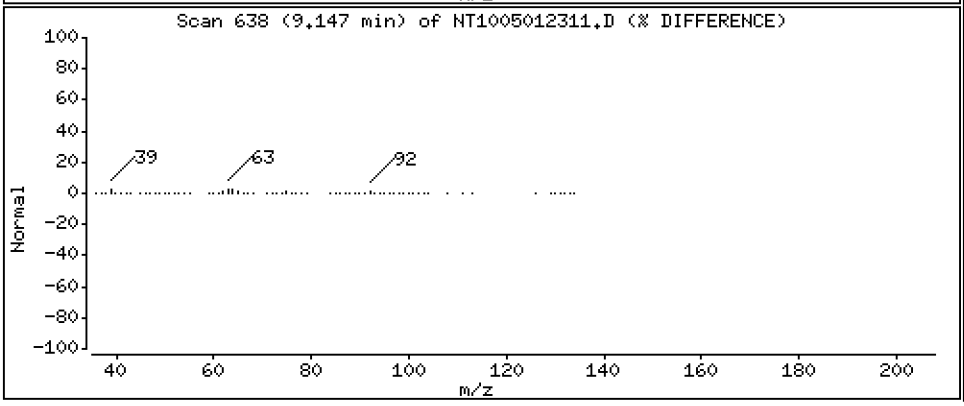












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

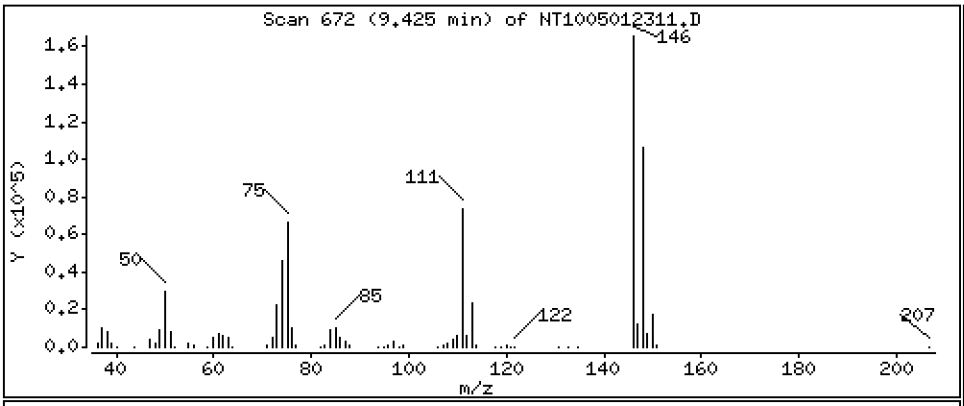
Operator: VTS

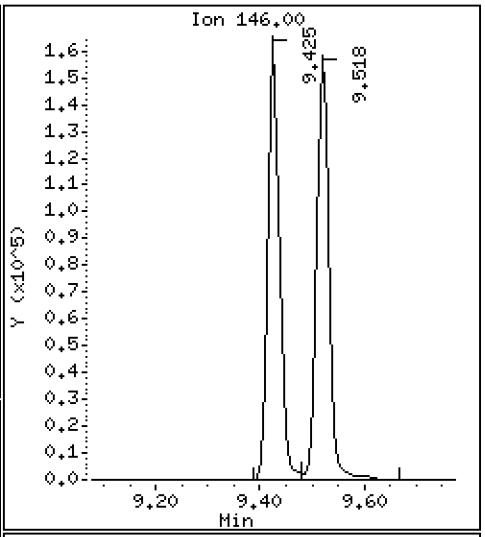
Column phase: ZB-5msi

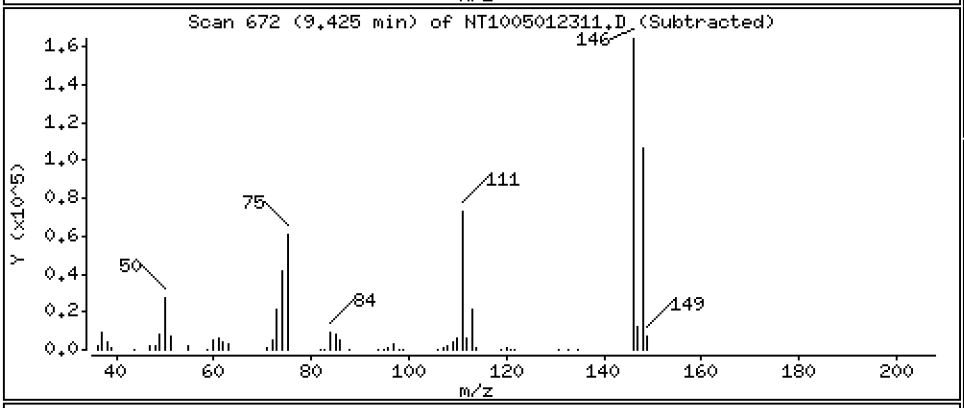
Column diameter: 0.25

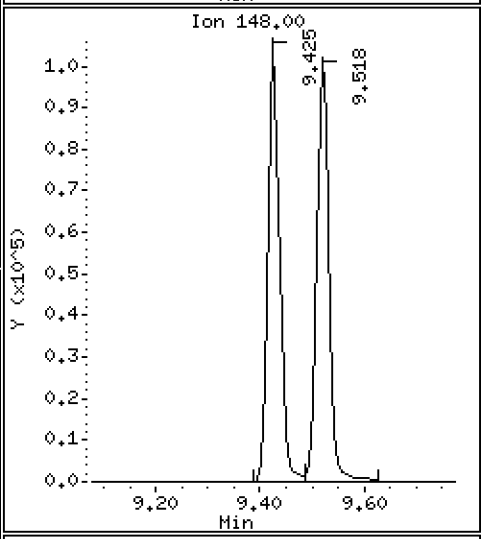
7 1,3-Dichlorobenzene

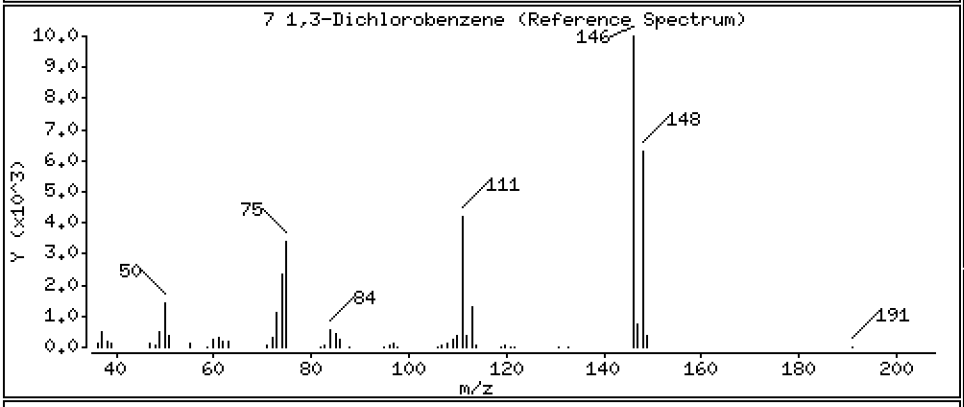
Concentration: 4.939 ug/mL

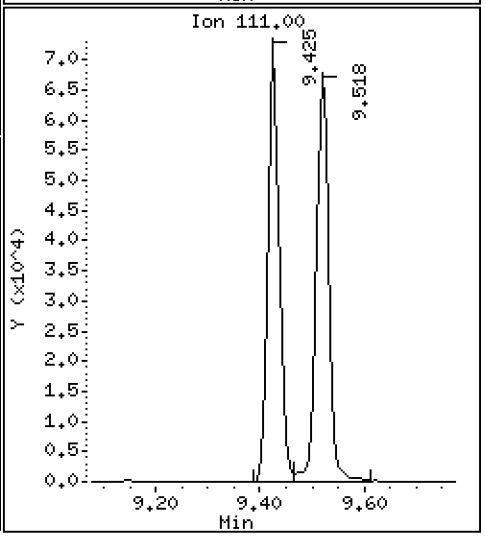


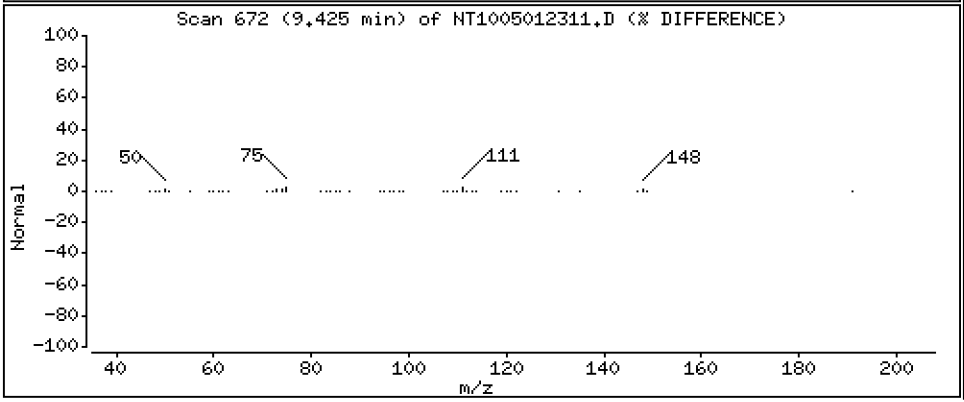












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

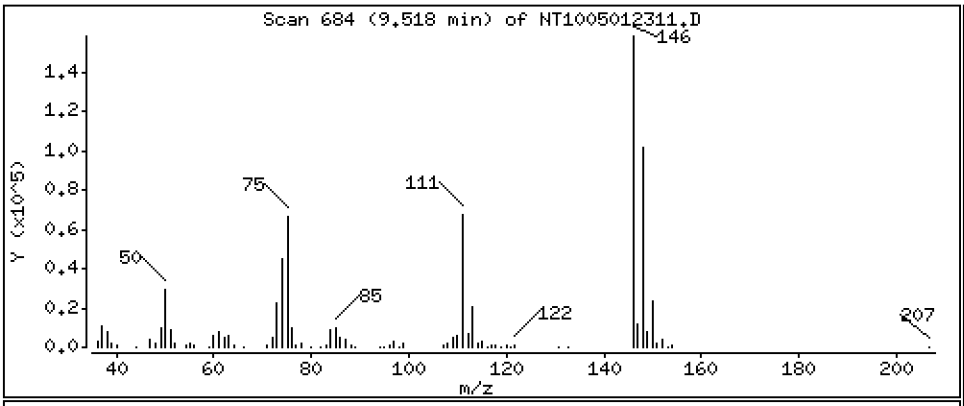
Operator: VTS

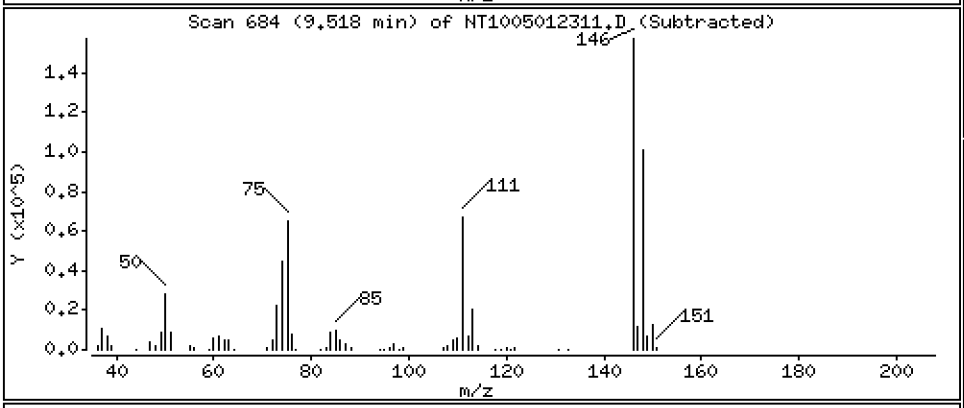
Column phase: ZB-5msi

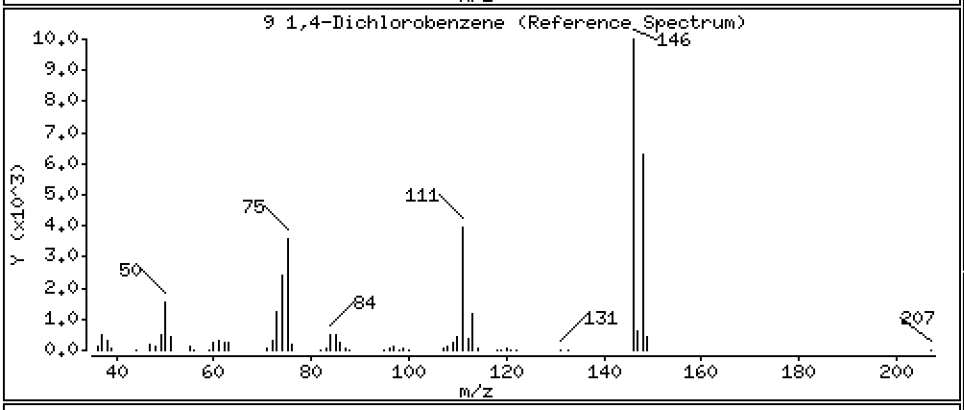
Column diameter: 0.25

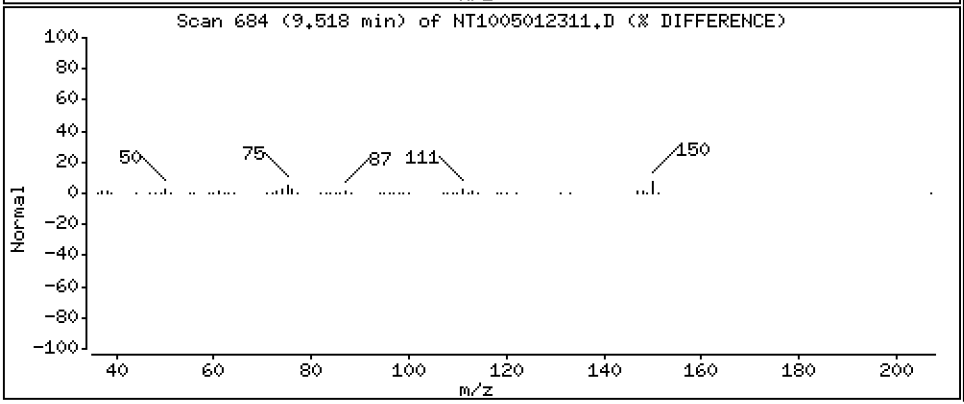
9 1,4-Dichlorobenzene

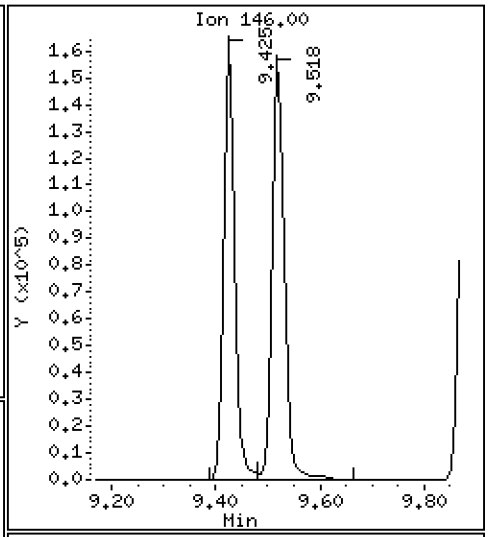
Concentration: 5.492 ug/mL

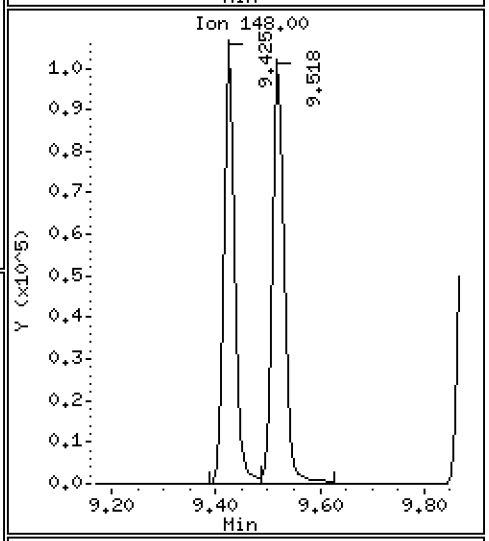


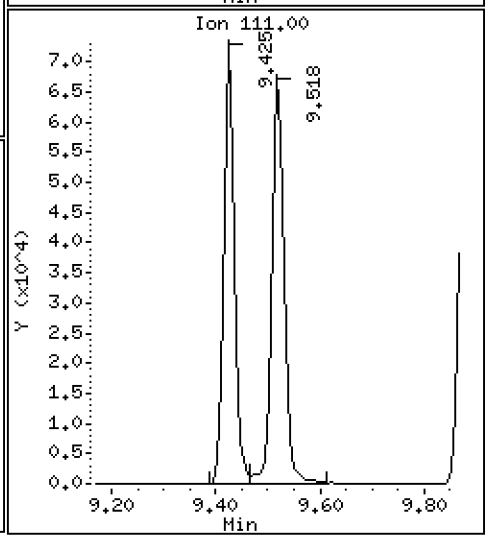












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

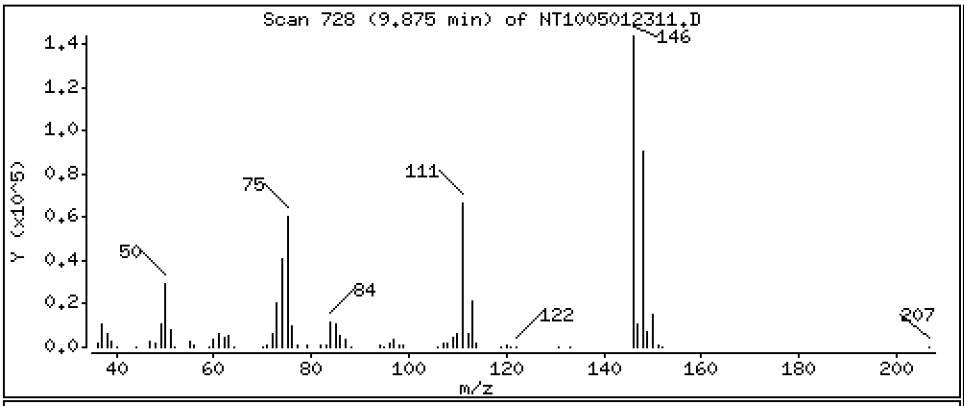
Operator: VTS

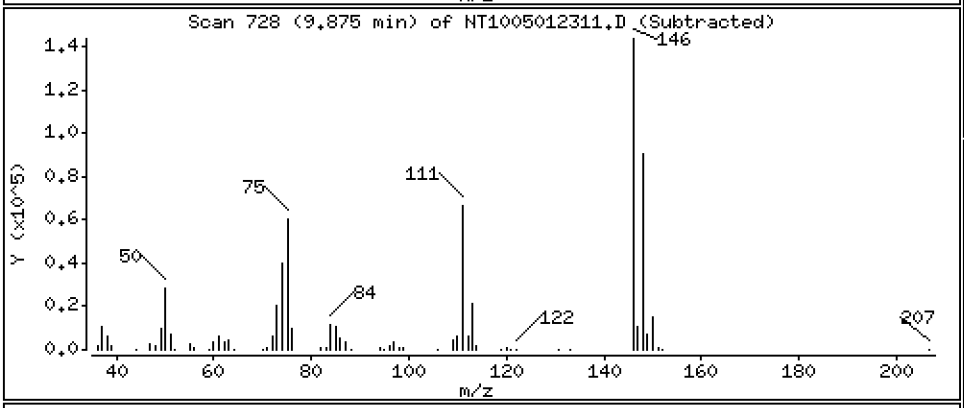
Column phase: ZB-5msi

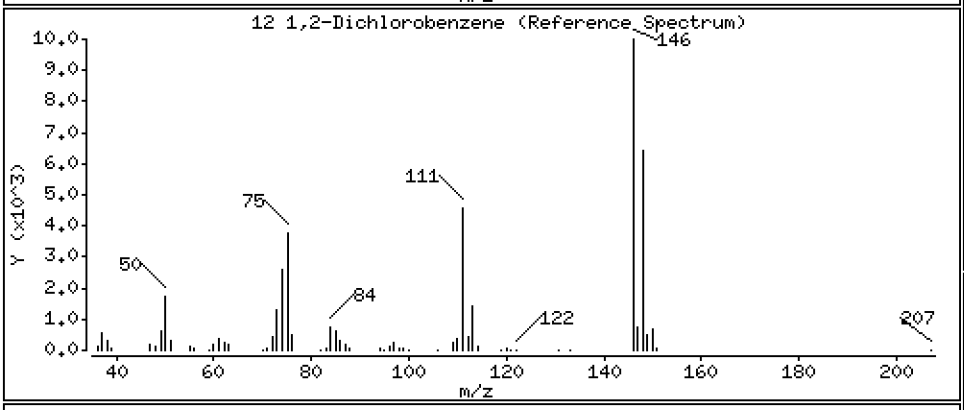
Column diameter: 0.25

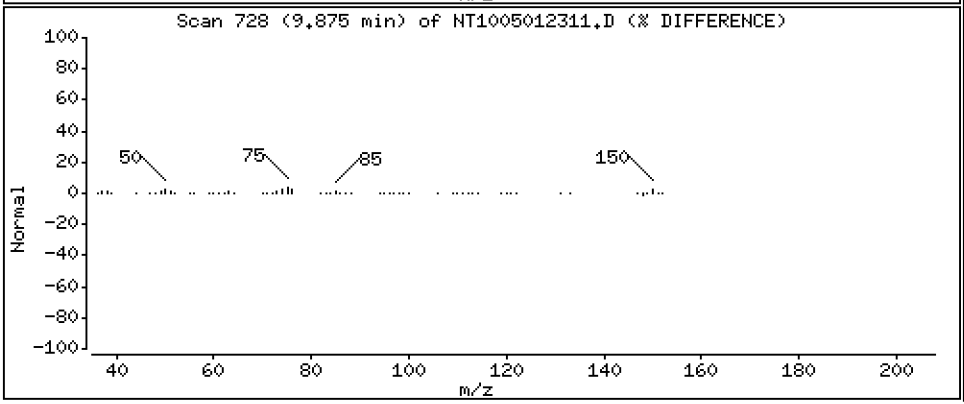
12 1,2-Dichlorobenzene

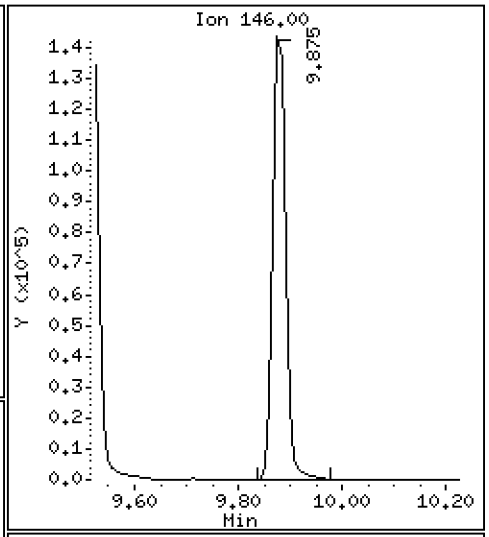
Concentration: 4.938 ug/mL

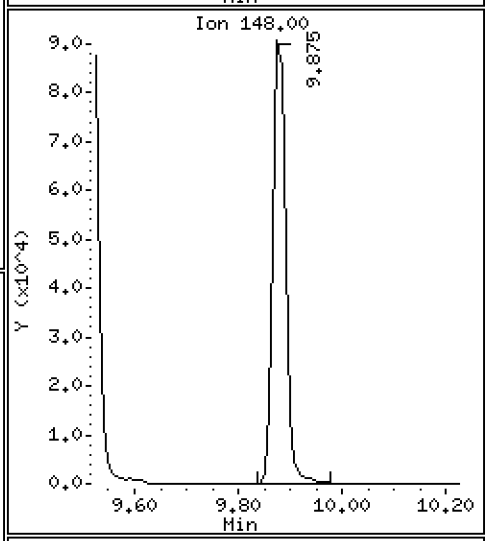


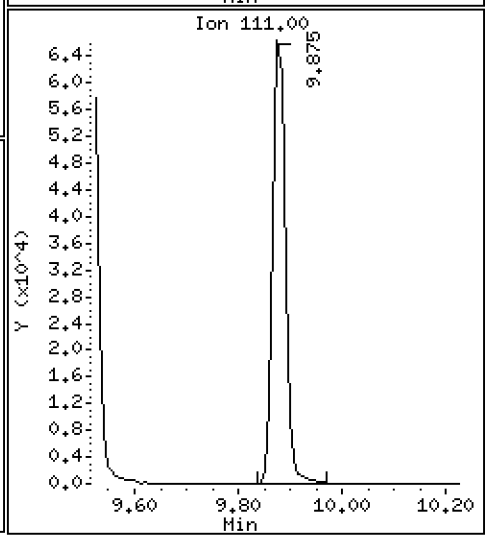












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

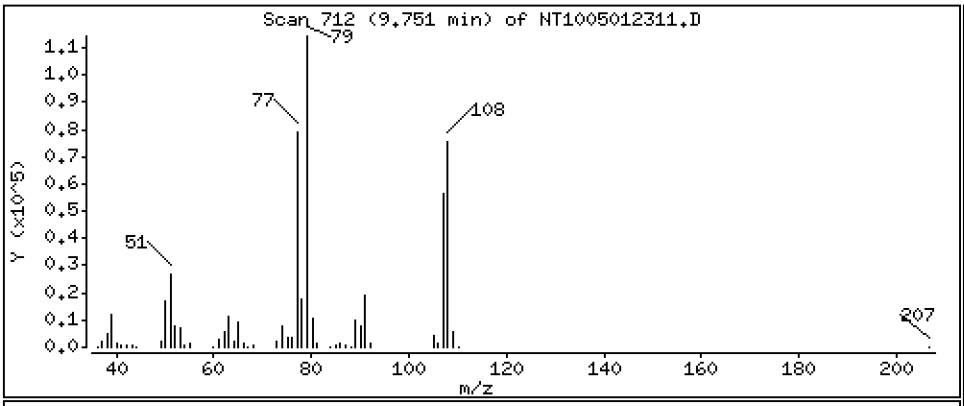
Operator: VTS

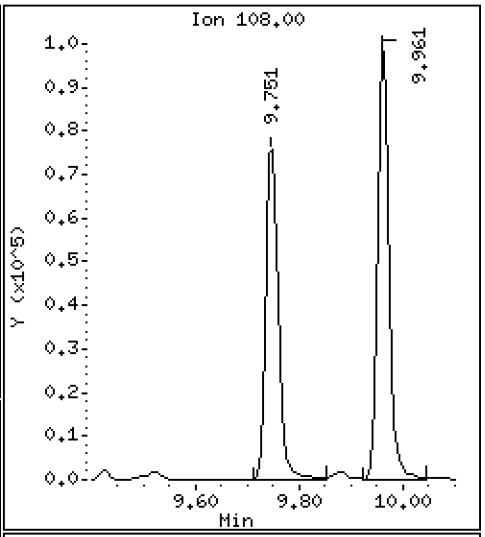
Column phase: ZB-5msi

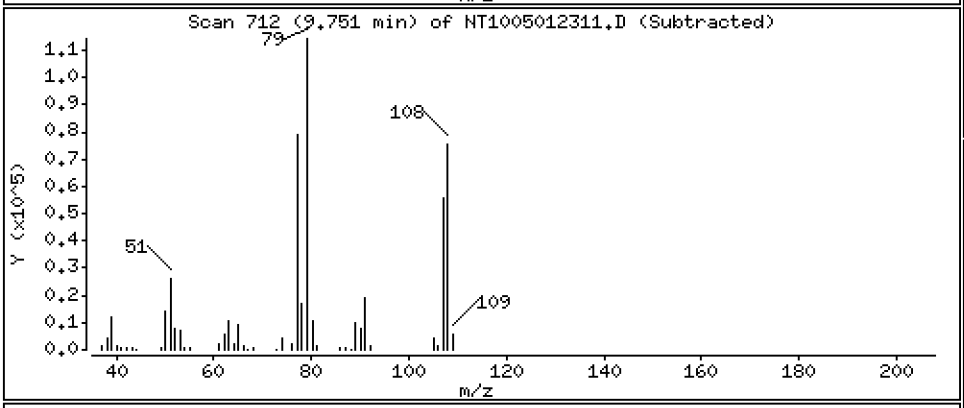
Column diameter: 0.25

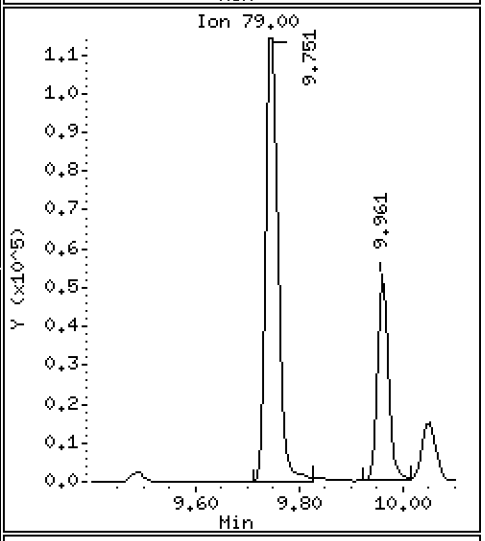
11 Benzyl alcohol

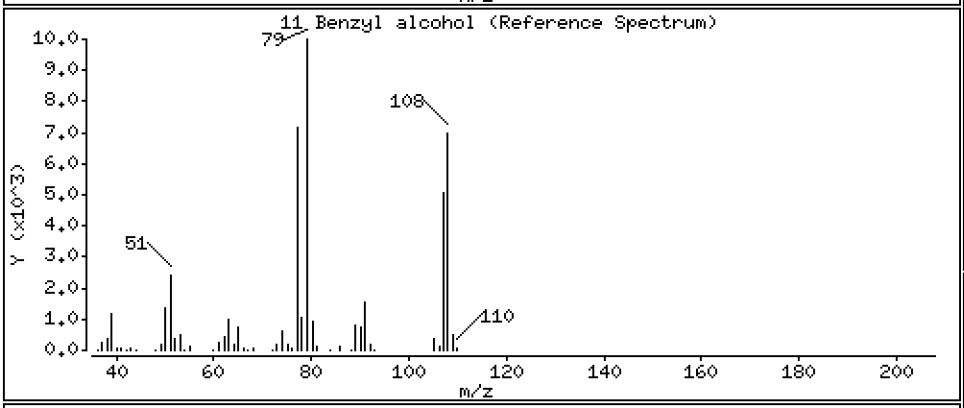
Concentration: 5.069 ug/mL

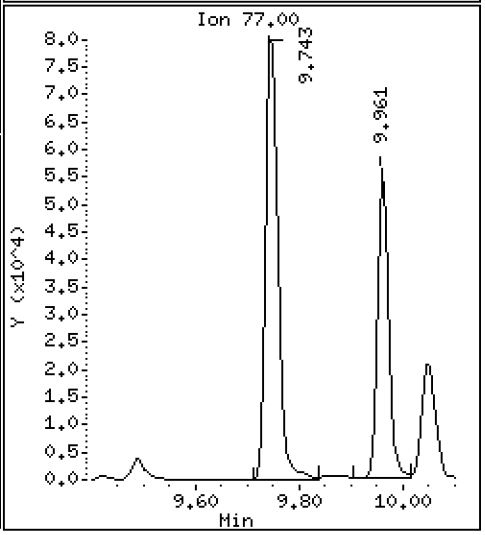


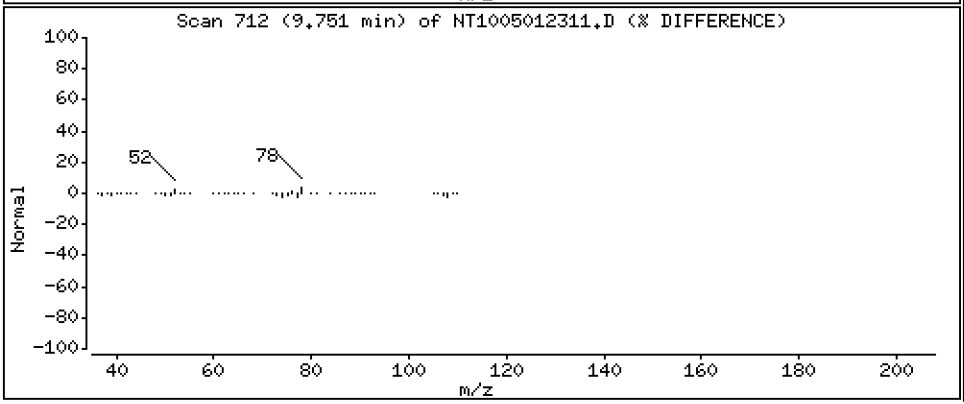












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

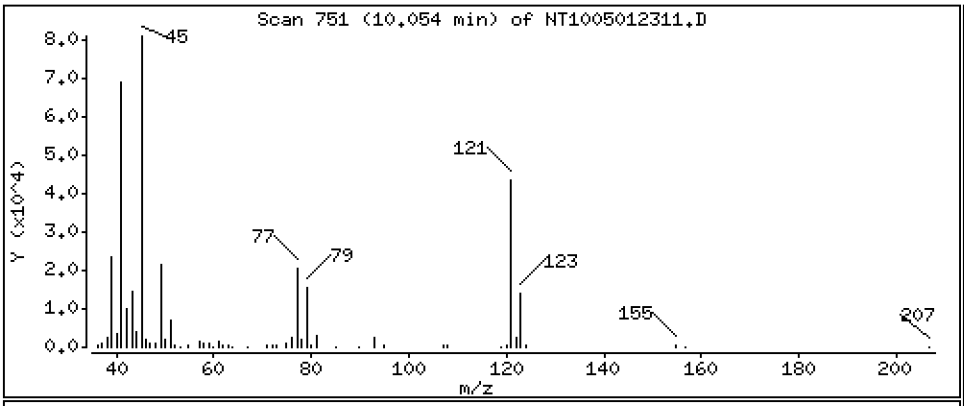
Operator: VTS

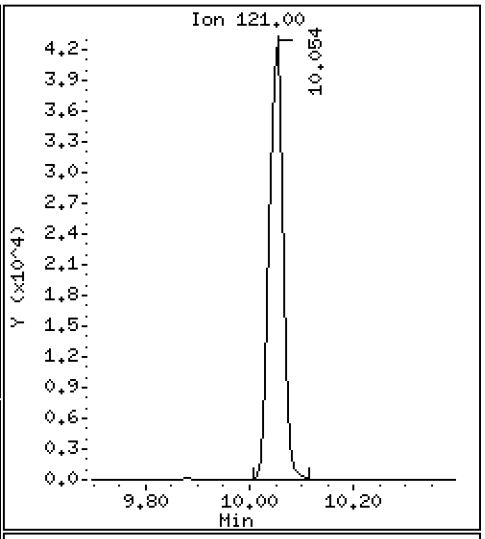
Column phase: ZB-5msi

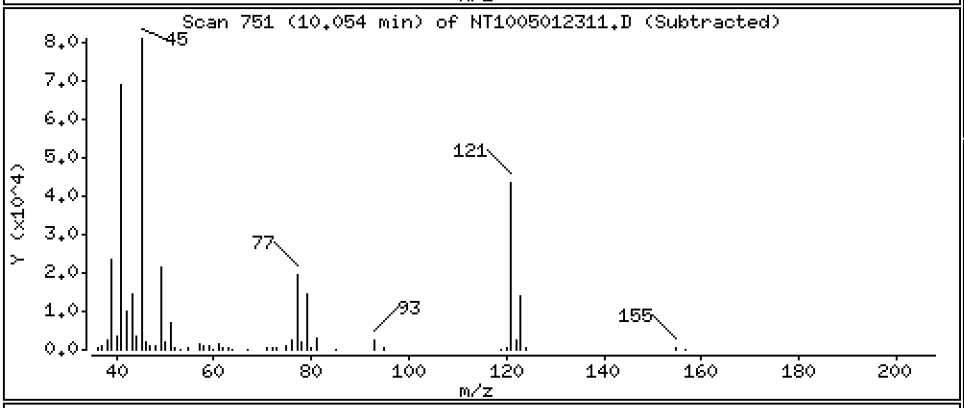
Column diameter: 0.25

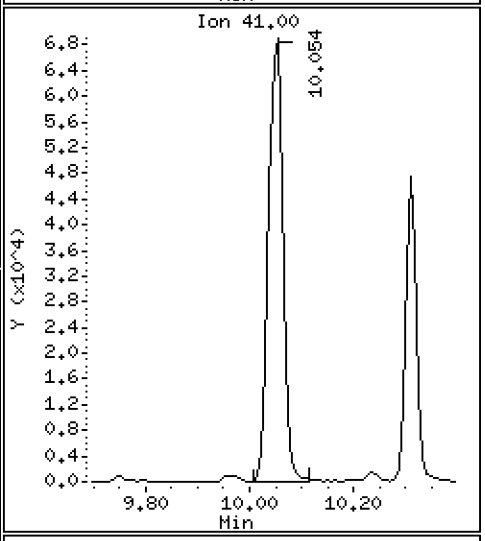
14 2,2'-oxybis(1-Chloropropane)

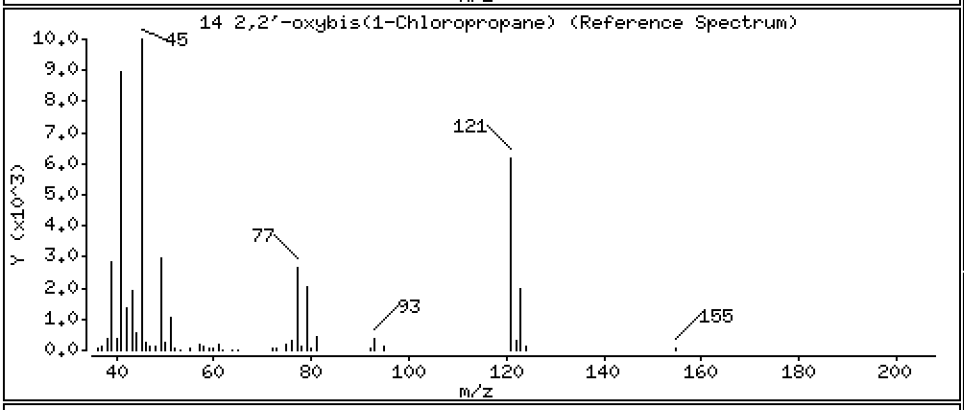
Concentration: 5.603 ug/mL

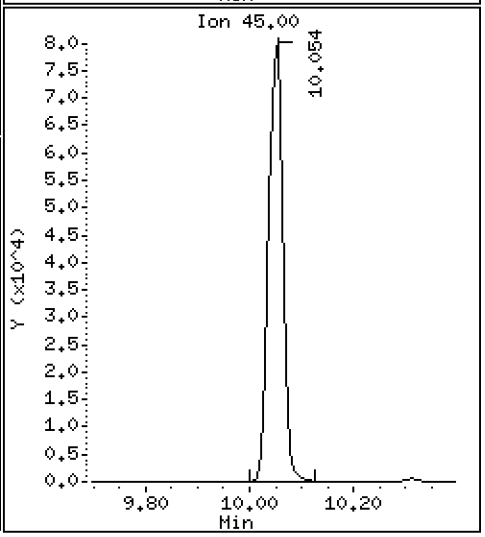


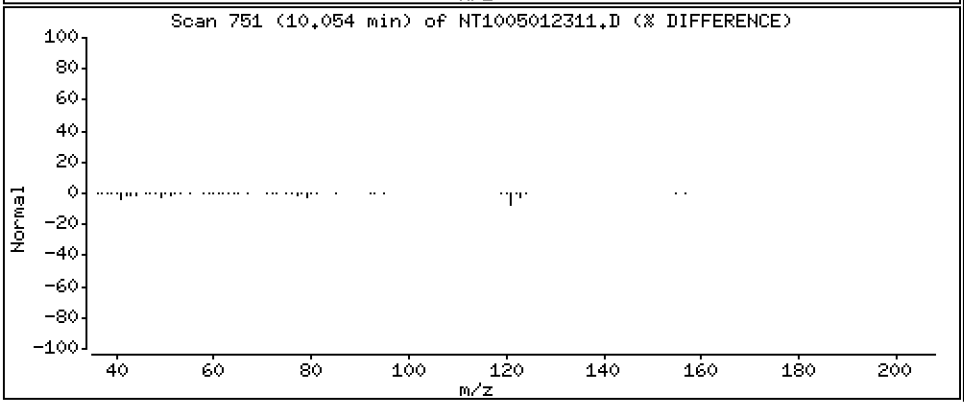












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

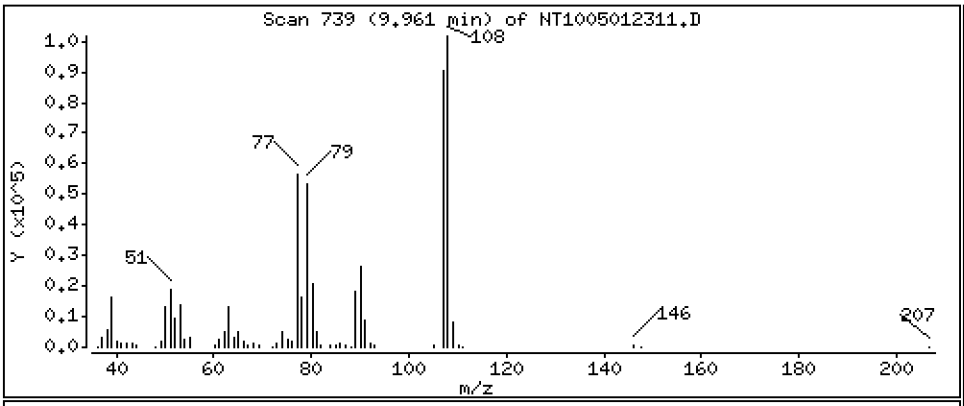
Operator: VTS

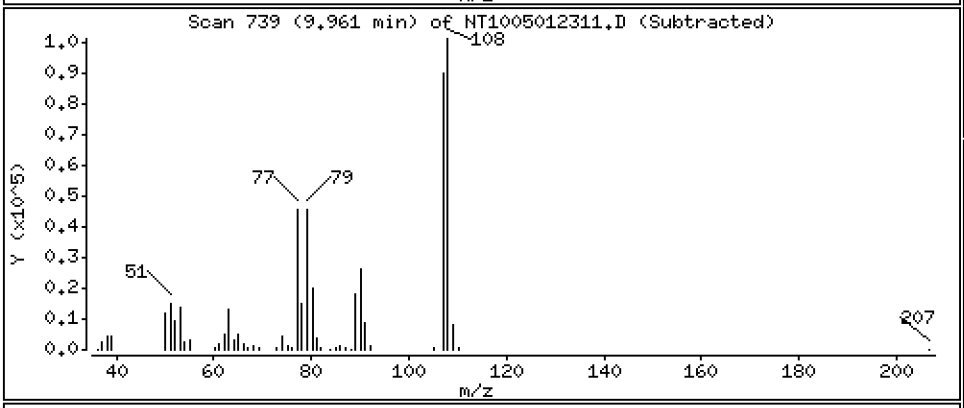
Column phase: ZB-5msi

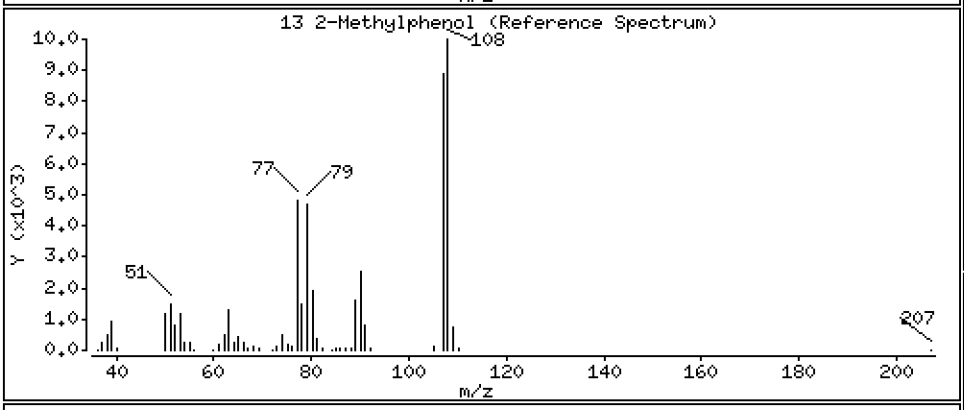
Column diameter: 0.25

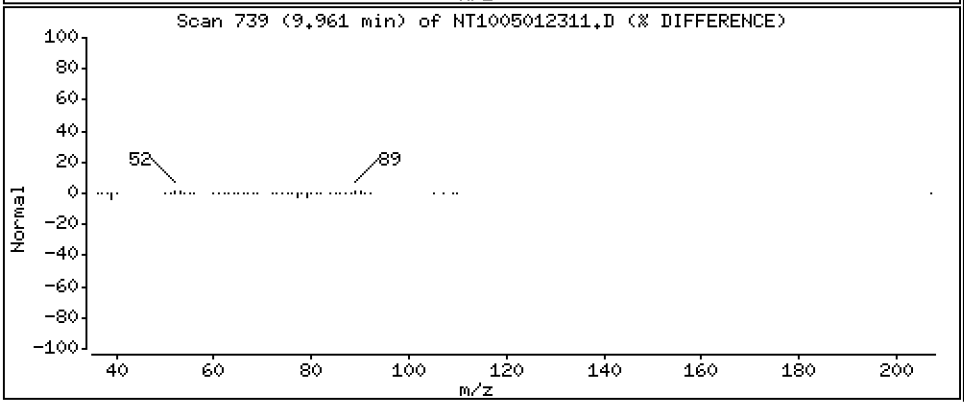
13 2-Methylphenol

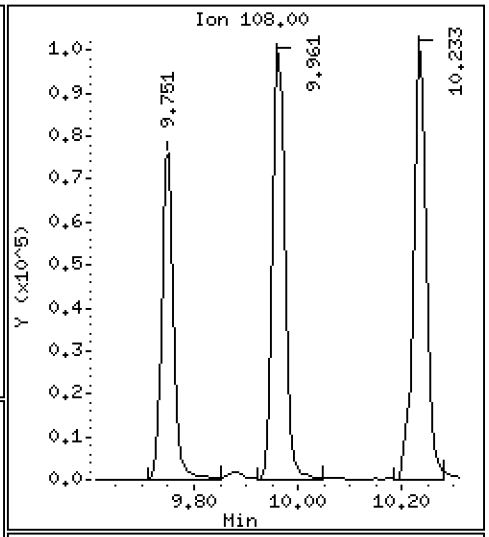
Concentration: 4.232 ug/mL

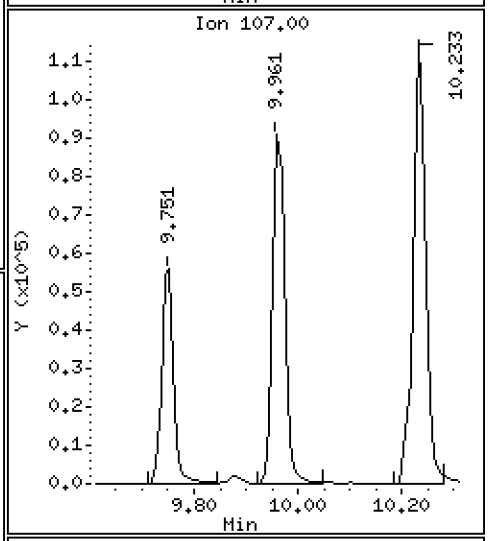


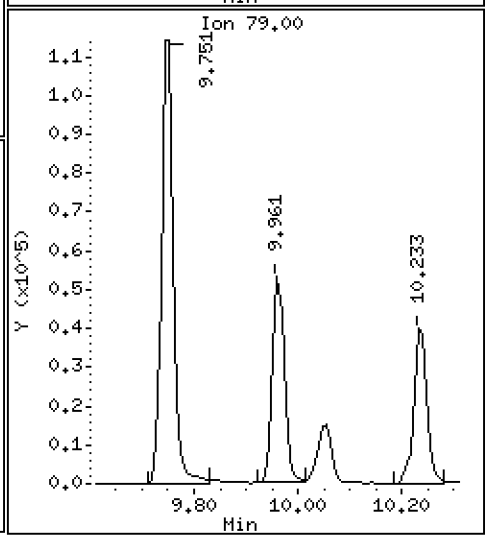












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

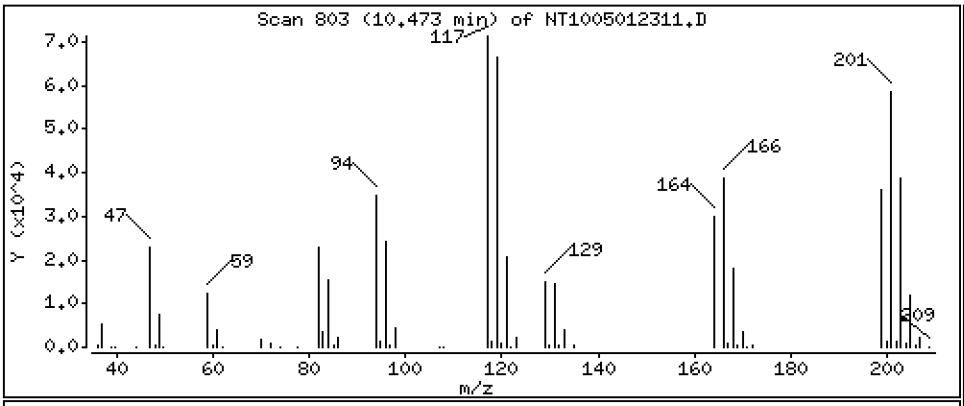
Operator: VTS

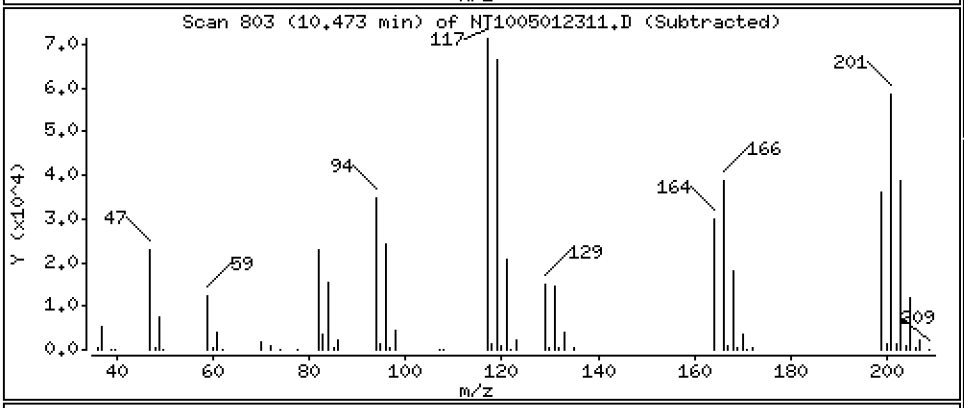
Column phase: ZB-5msi

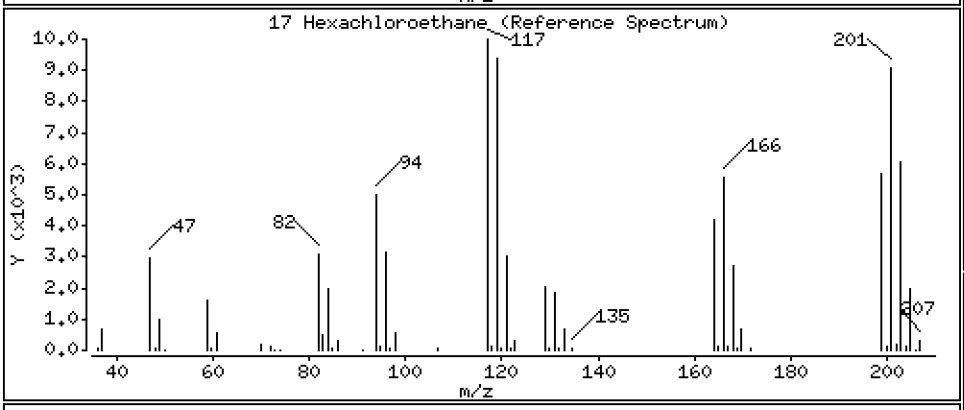
Column diameter: 0.25

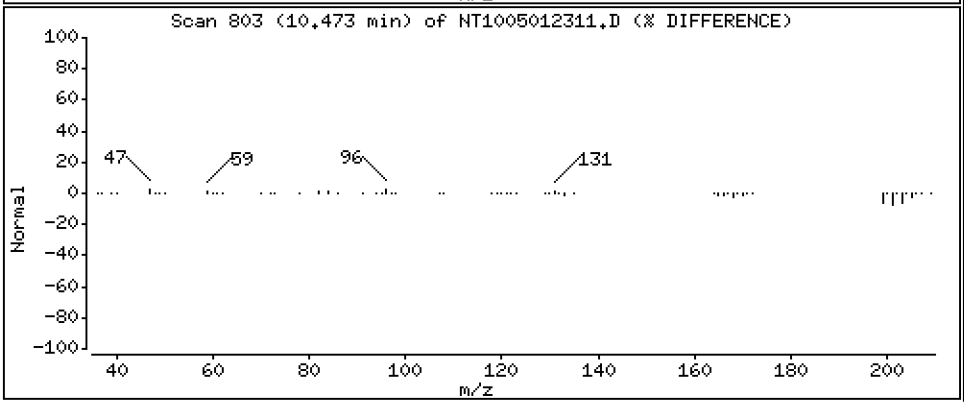
17 Hexachloroethane

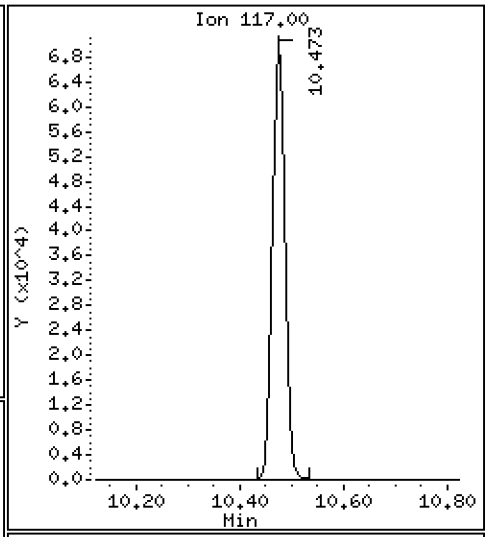
Concentration: 5.275 ug/mL

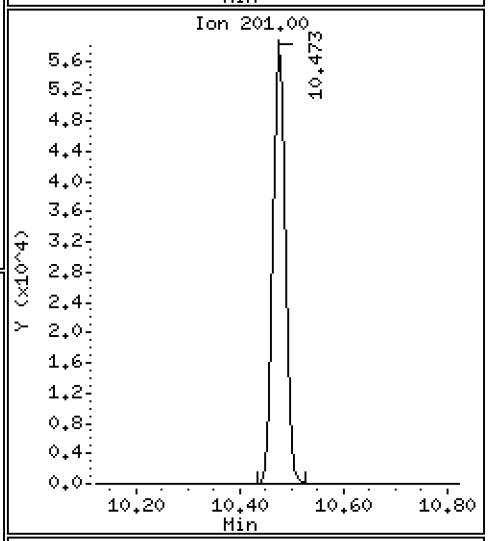


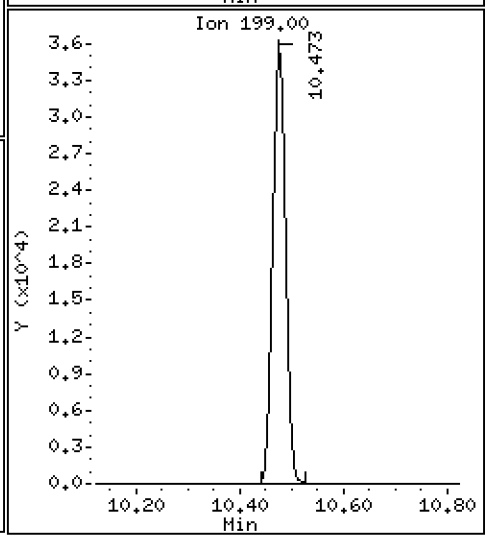












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

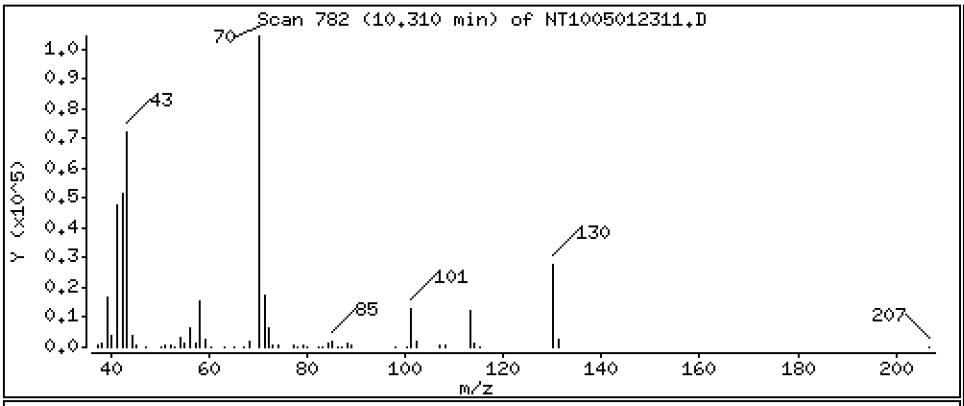
Operator: VTS

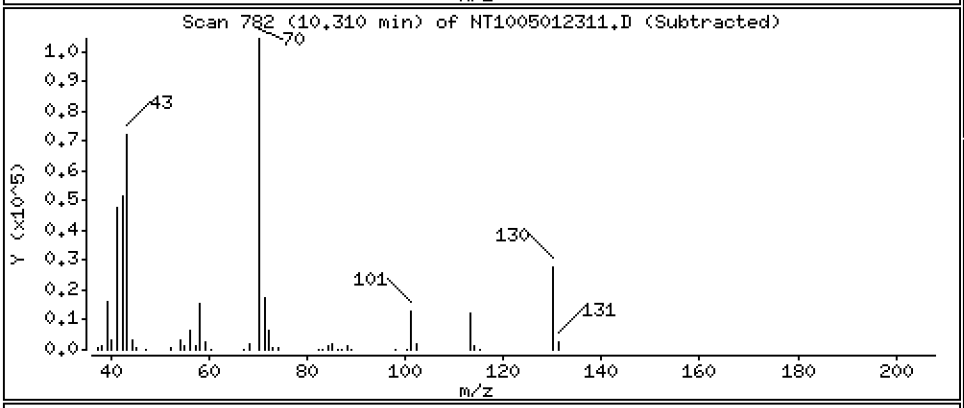
Column phase: ZB-5msi

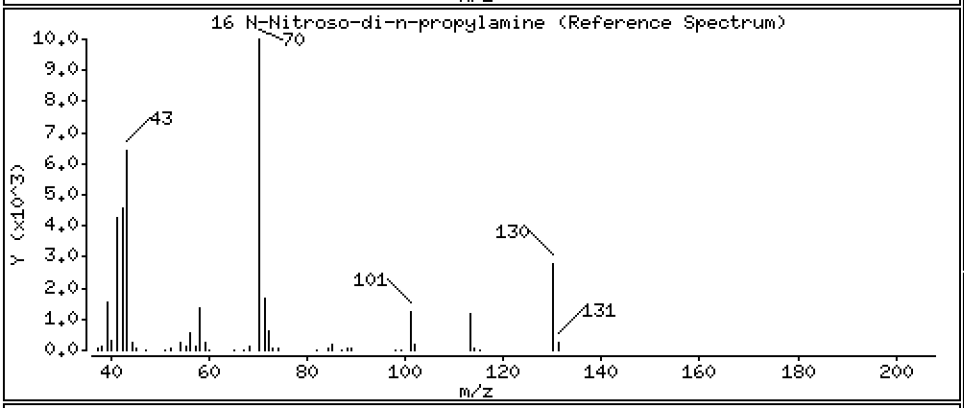
Column diameter: 0.25

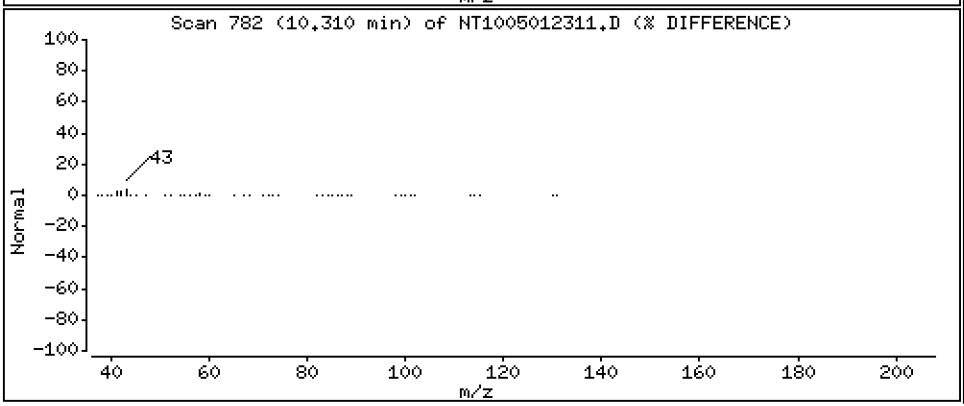
16 N-Nitroso-di-n-propylamine

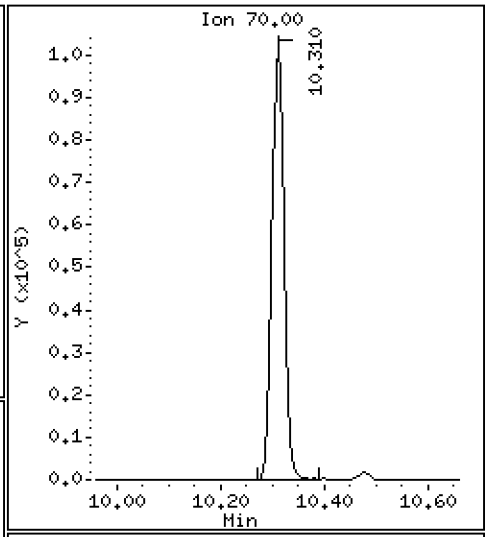
Concentration: 5.386 ug/mL

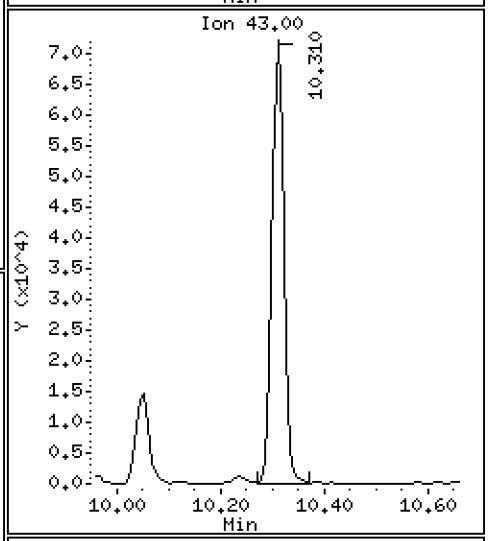


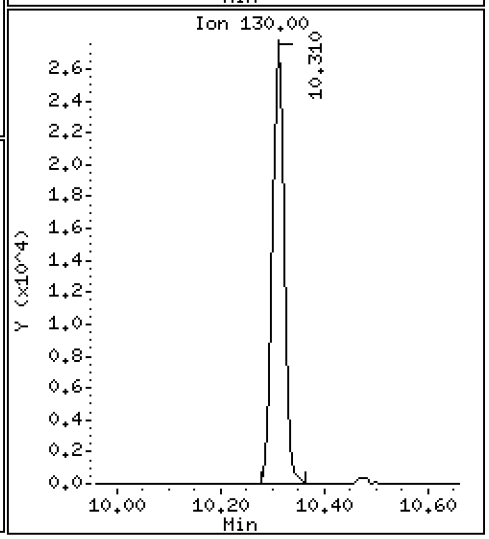












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

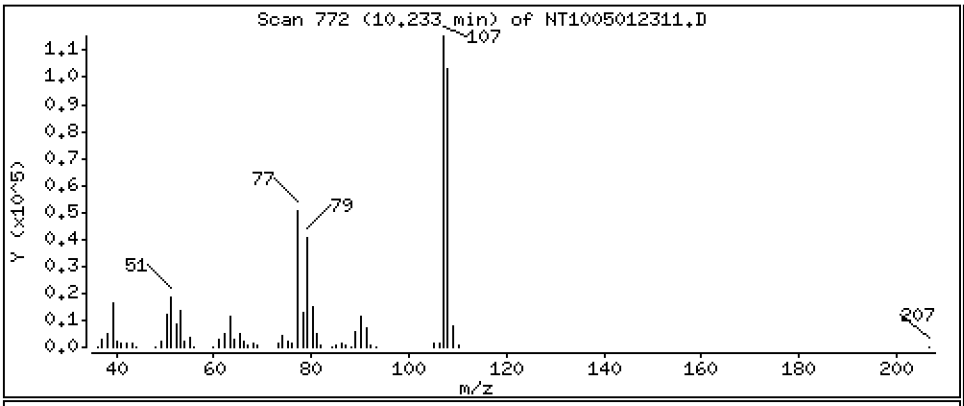
Operator: VTS

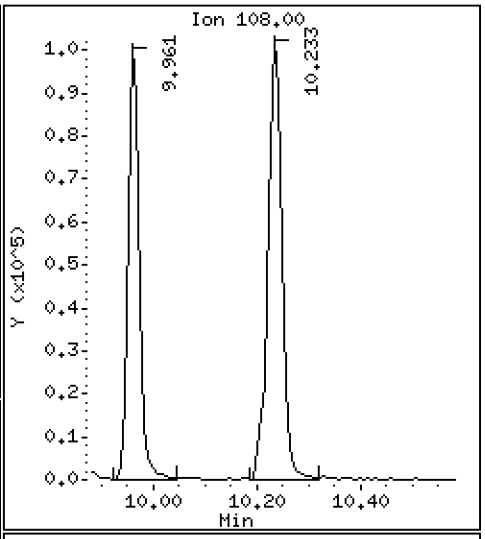
Column phase: ZB-5msi

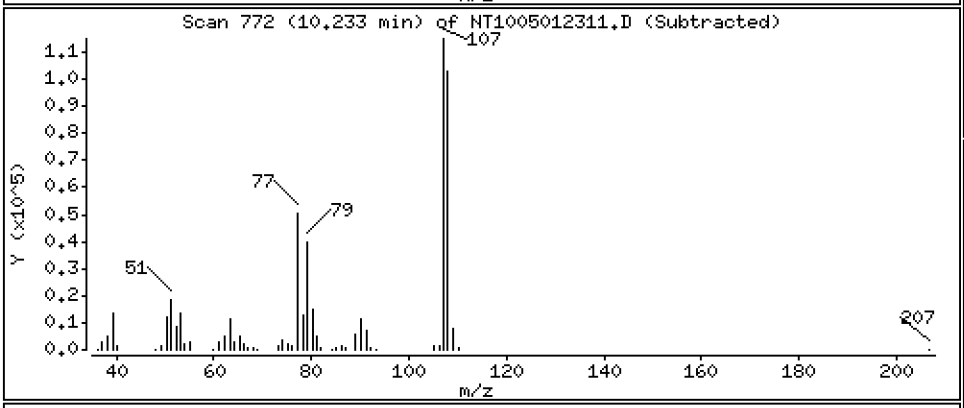
Column diameter: 0.25

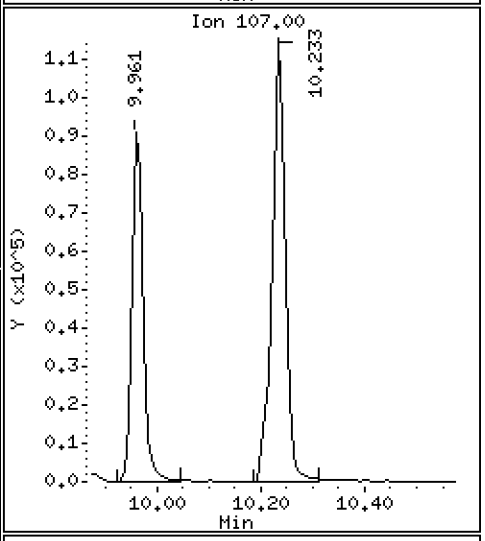
15 4-Methylphenol

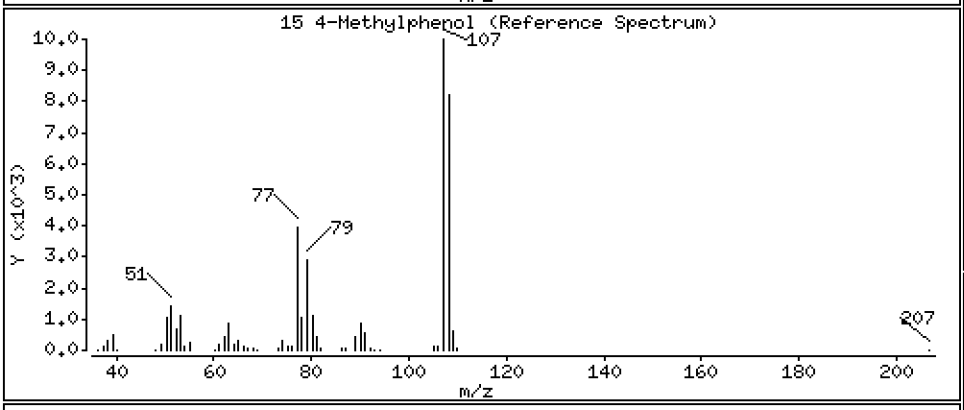
Concentration: 4.441 ug/mL

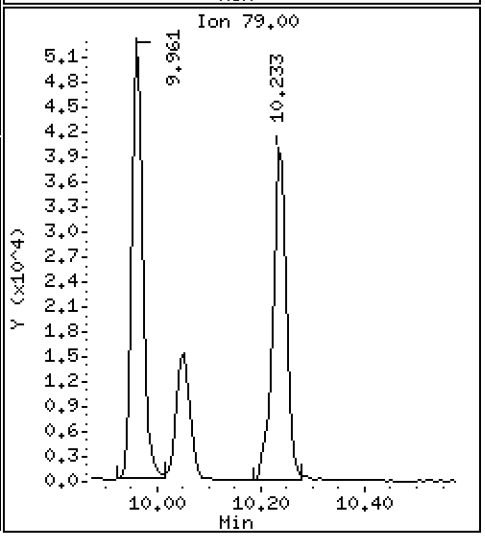


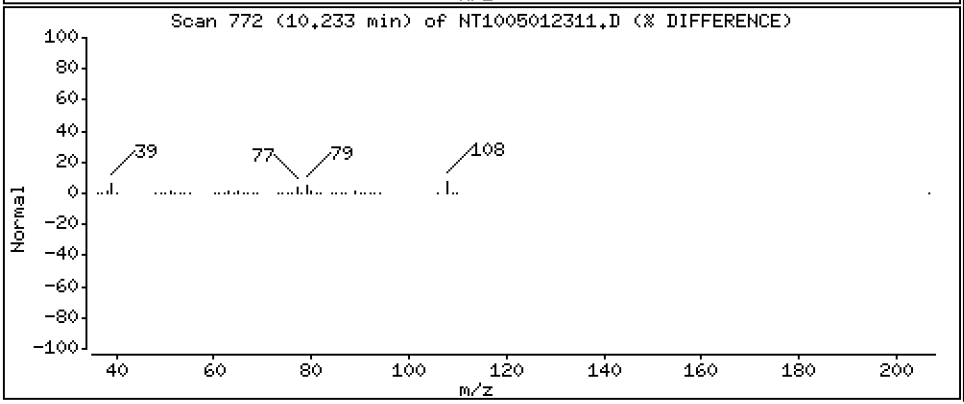












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

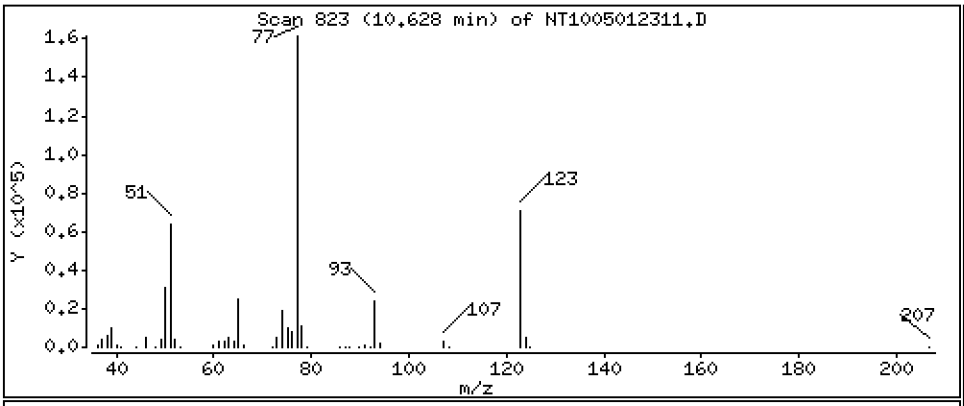
Operator: VTS

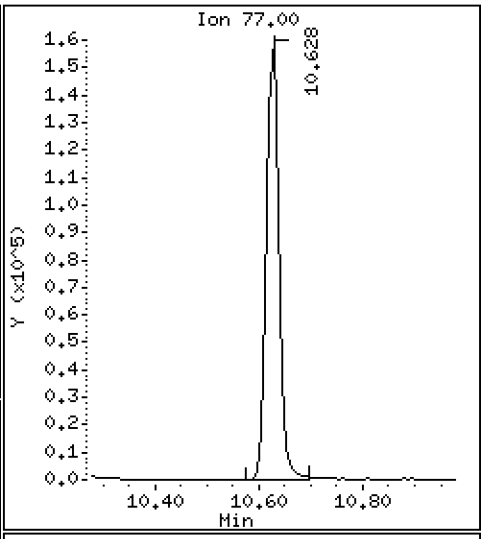
Column phase: ZB-5msi

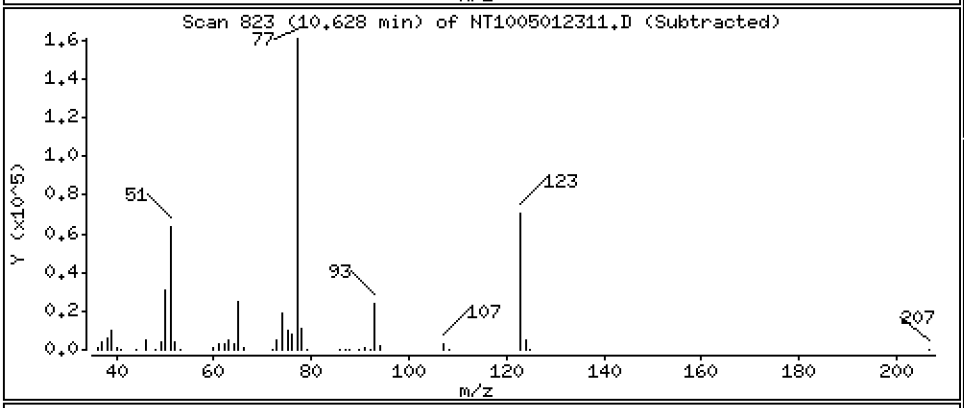
Column diameter: 0.25

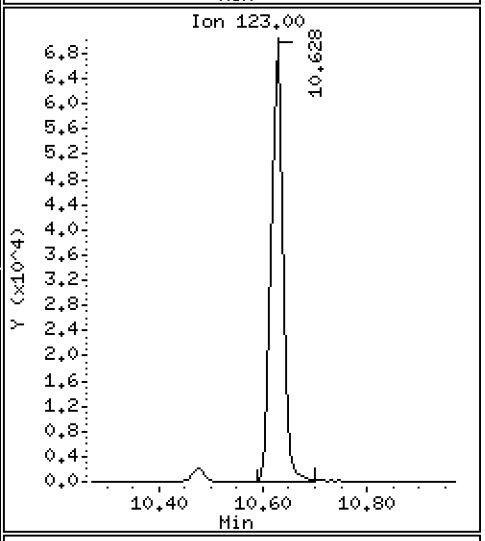
19 Nitrobenzene

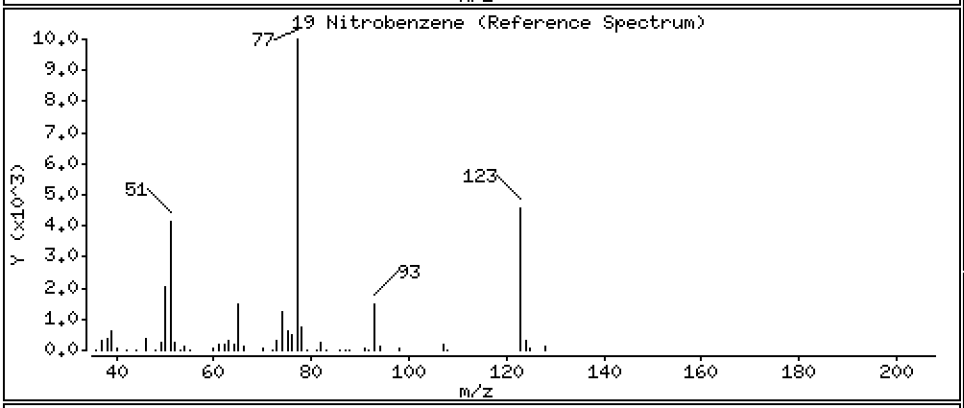
Concentration: 4.970 ug/mL

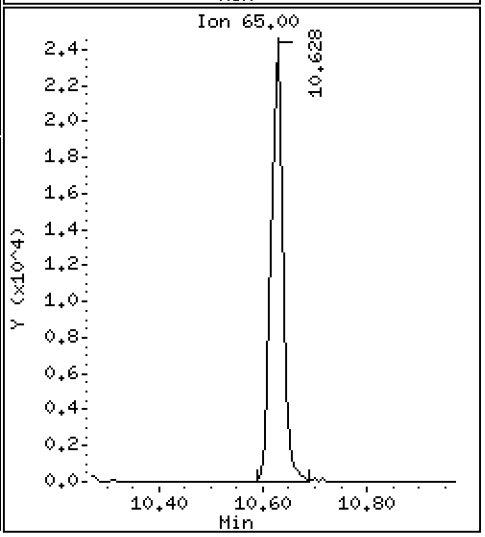


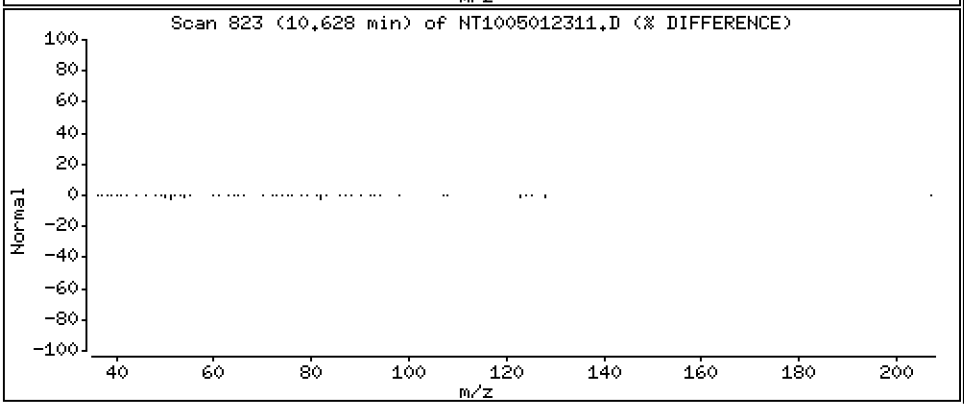












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

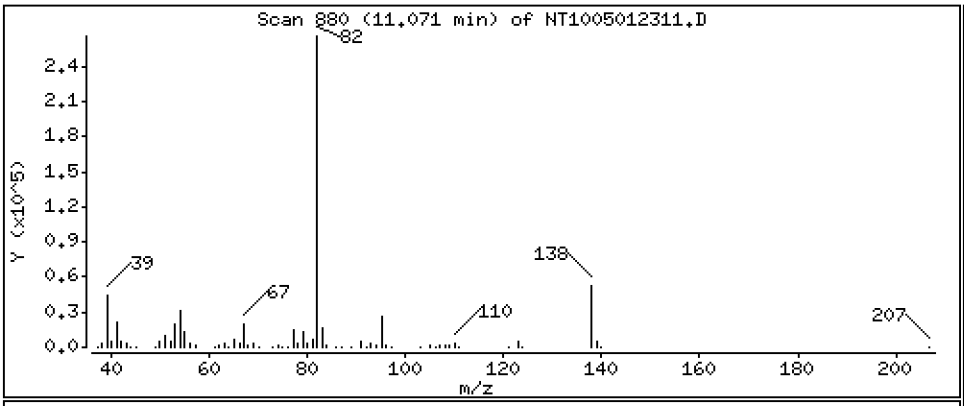
Operator: VTS

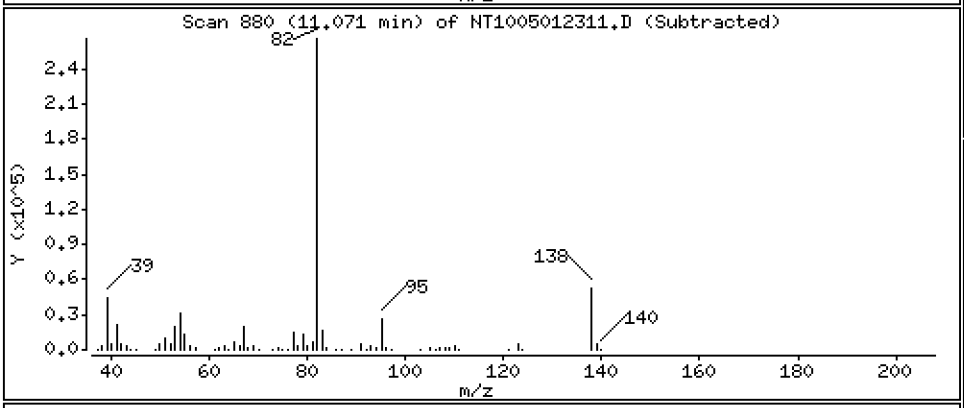
Column phase: ZB-5msi

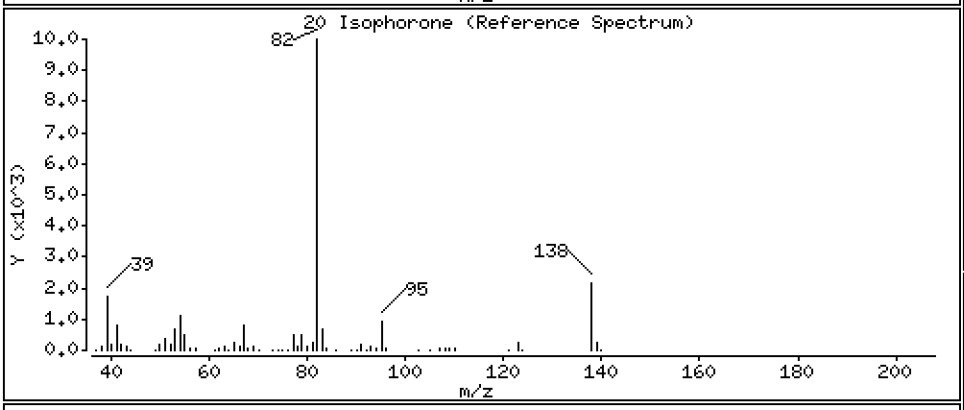
Column diameter: 0.25

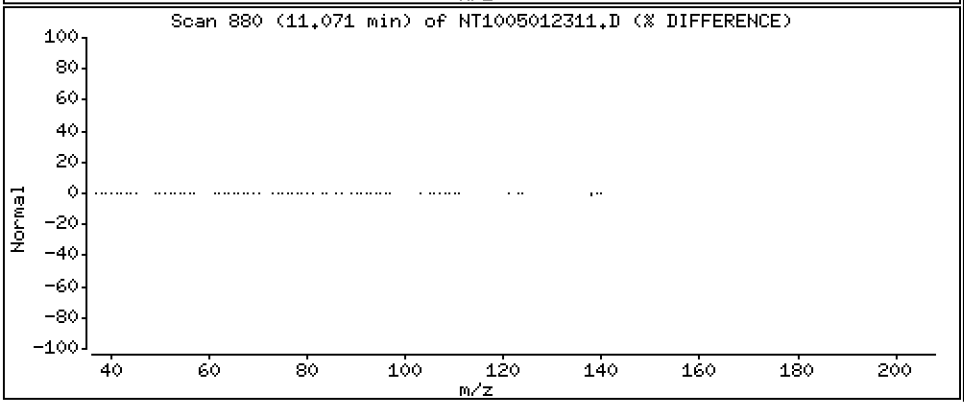
20 Isophorone

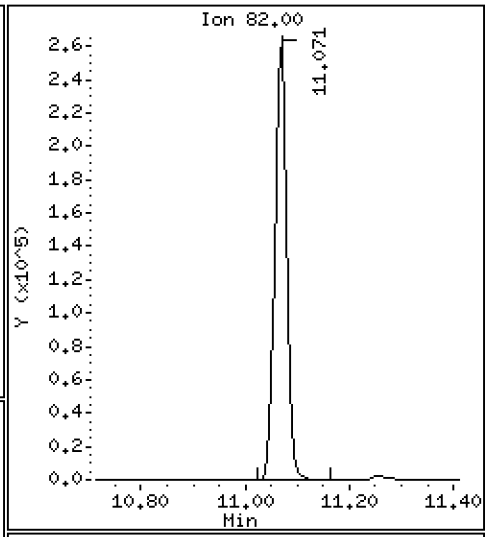
Concentration: 7.878 ug/mL

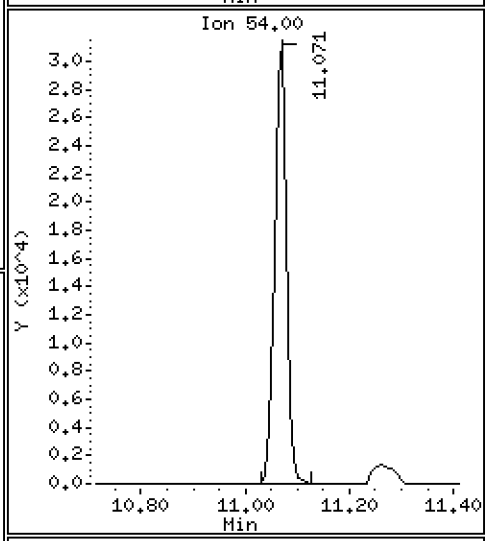


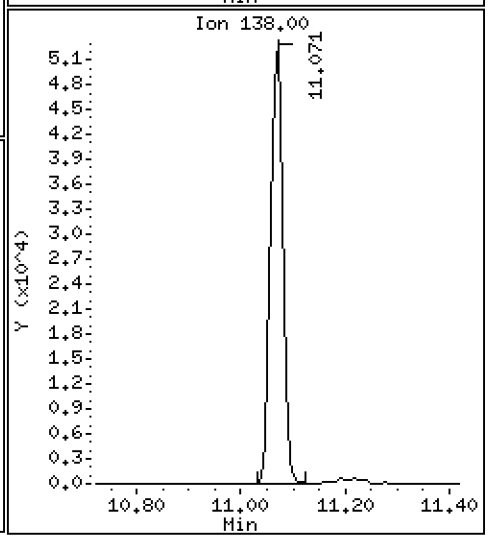












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

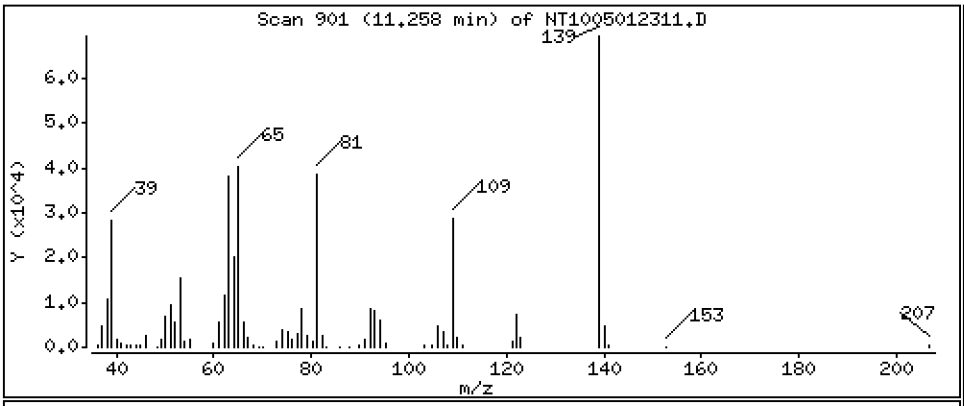
Operator: VTS

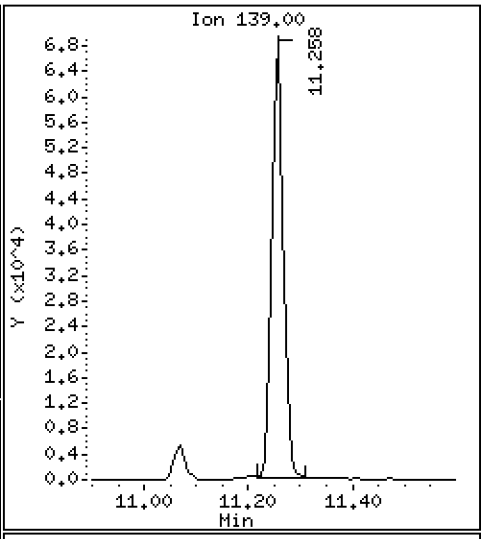
Column phase: ZB-5msi

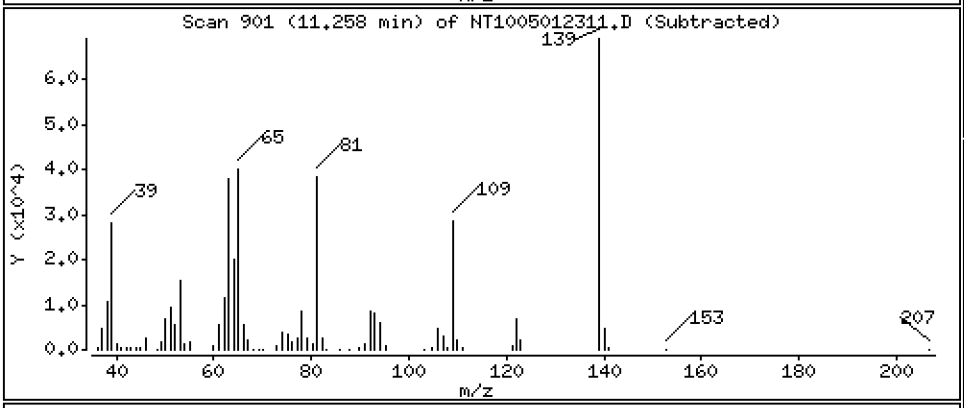
Column diameter: 0.25

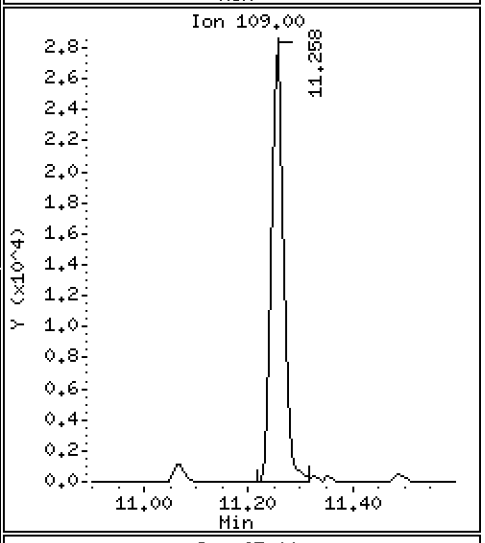
21 2-Nitrophenol

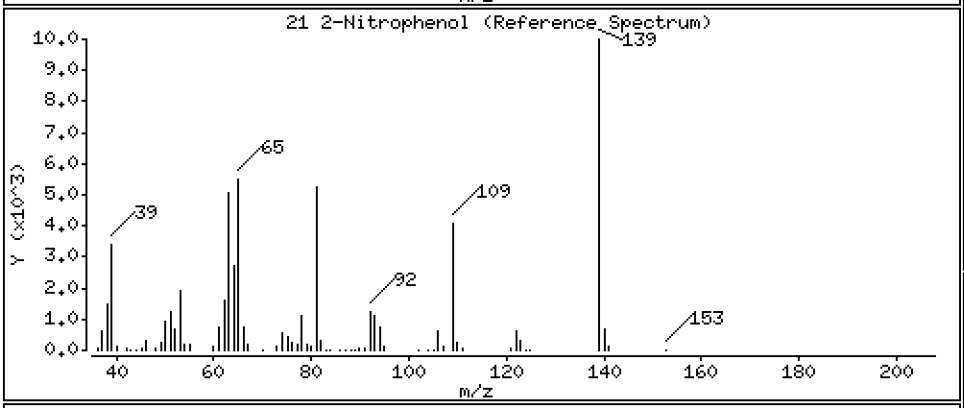
Concentration: 3.896 ug/mL

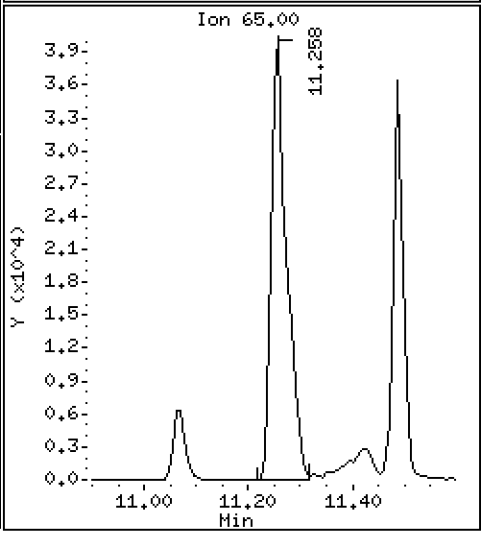


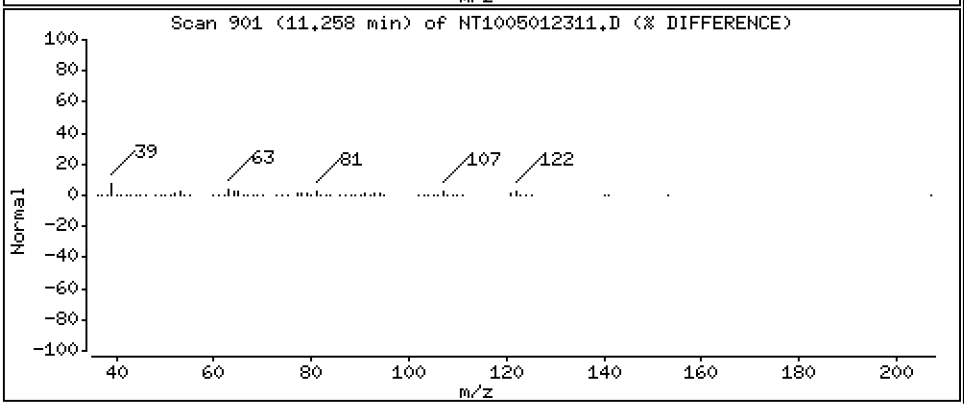












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

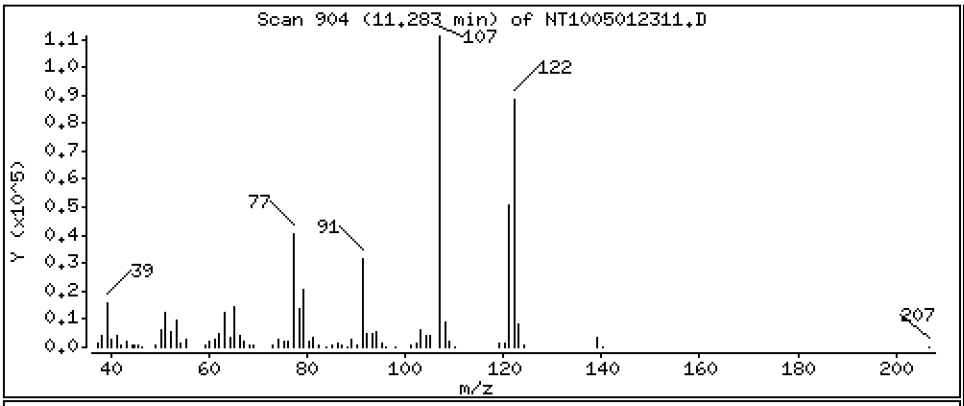
Operator: VTS

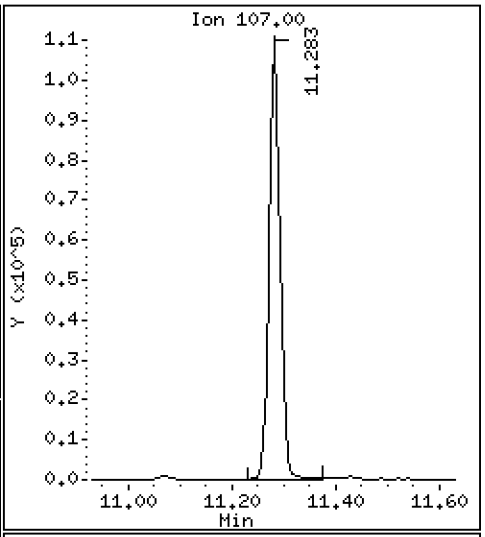
Column phase: ZB-5msi

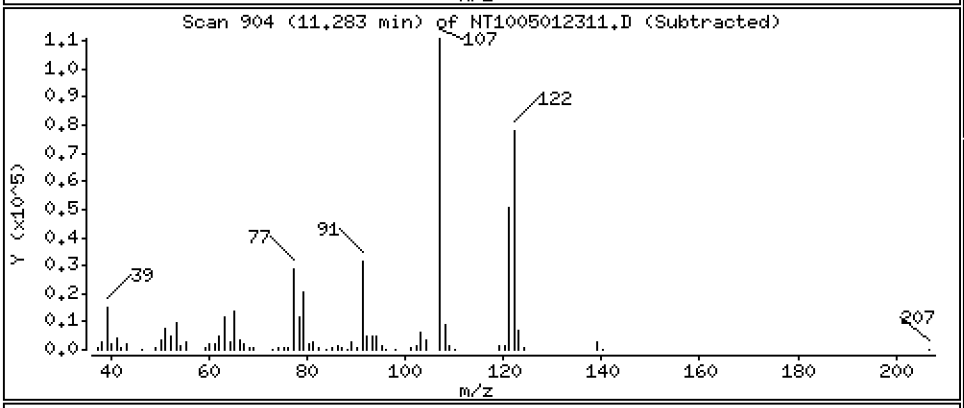
Column diameter: 0.25

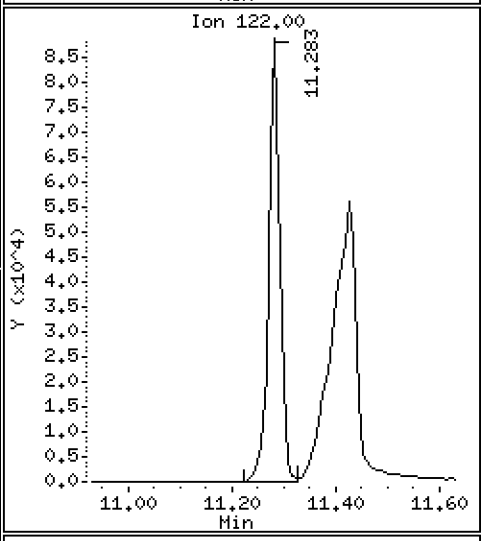
22 2,4-Dimethylphenol

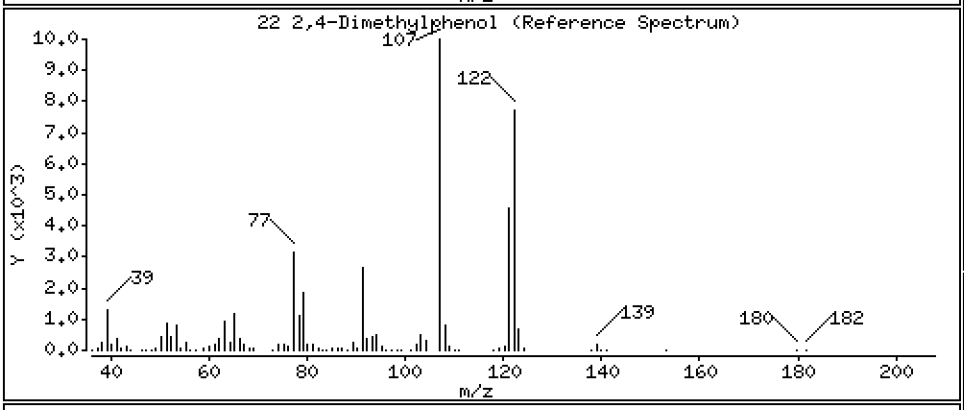
Concentration: 3.424 ug/mL

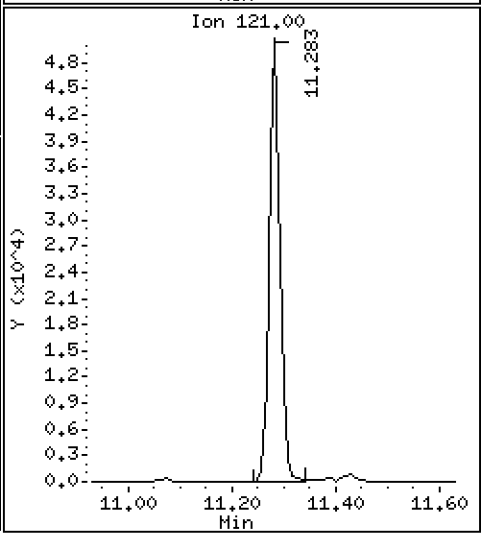


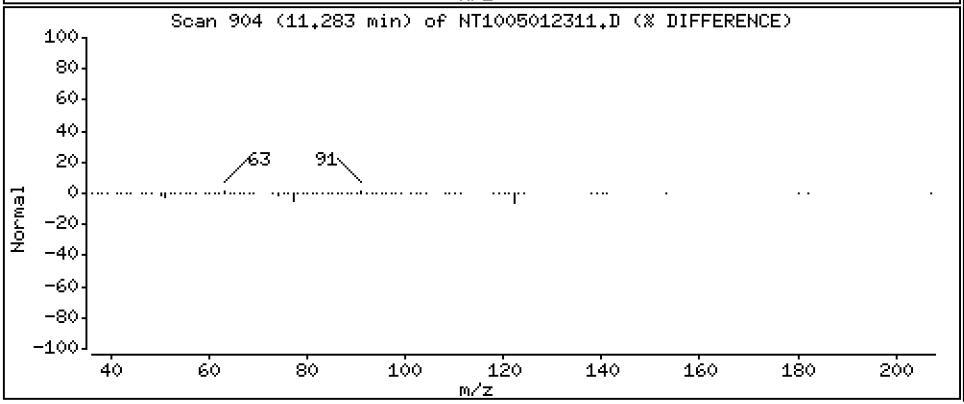












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

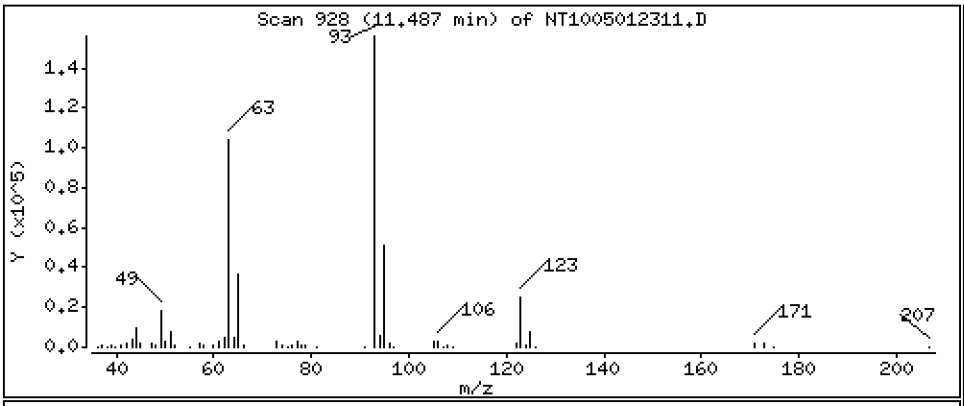
Operator: VTS

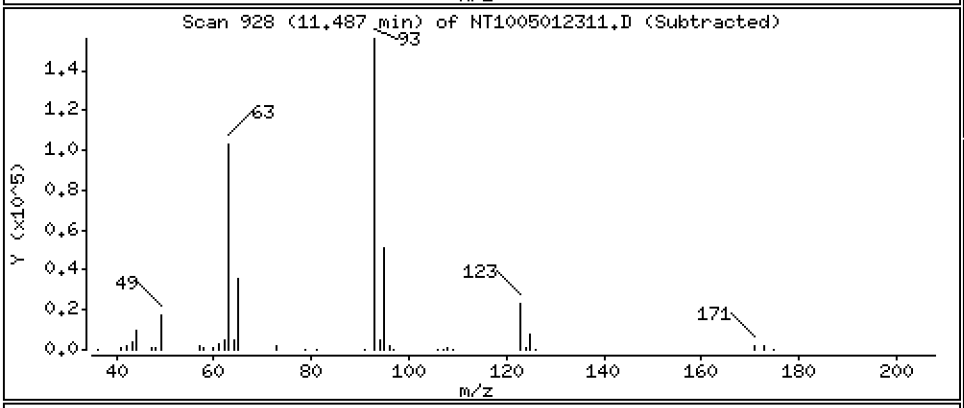
Column phase: ZB-5msi

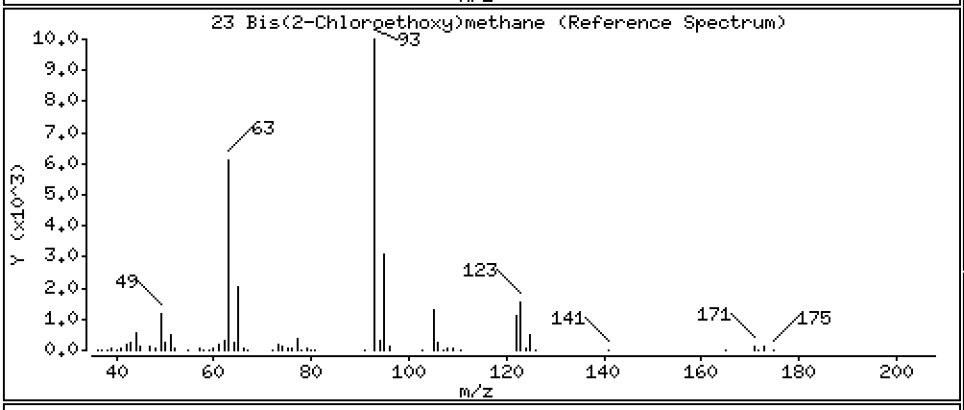
Column diameter: 0.25

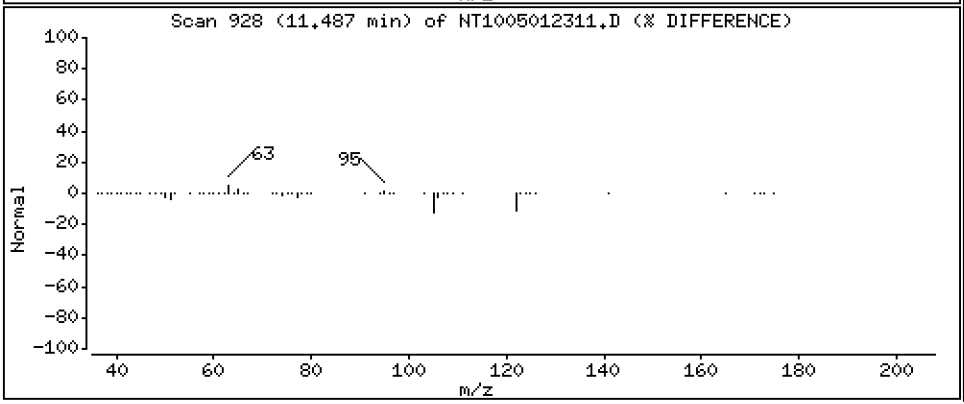
23 Bis(2-Chloroethoxy)methane

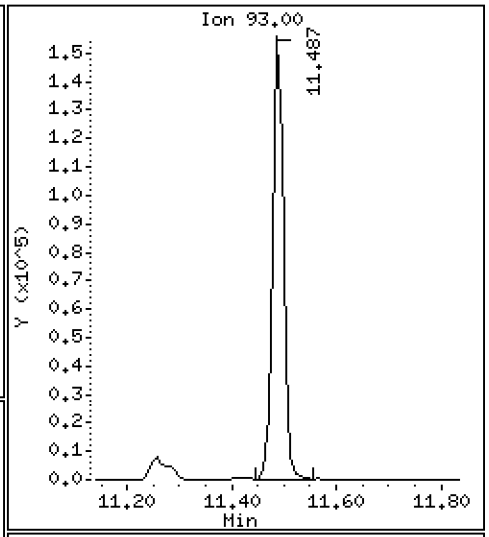
Concentration: 5.736 ug/mL

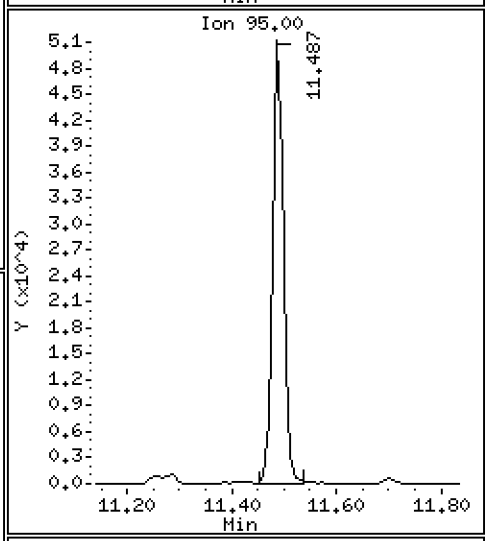


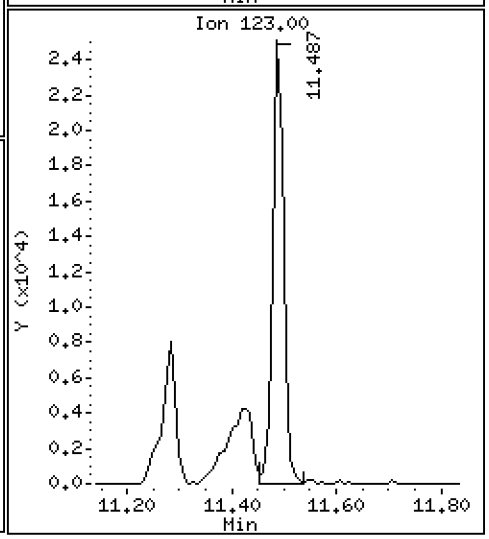












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

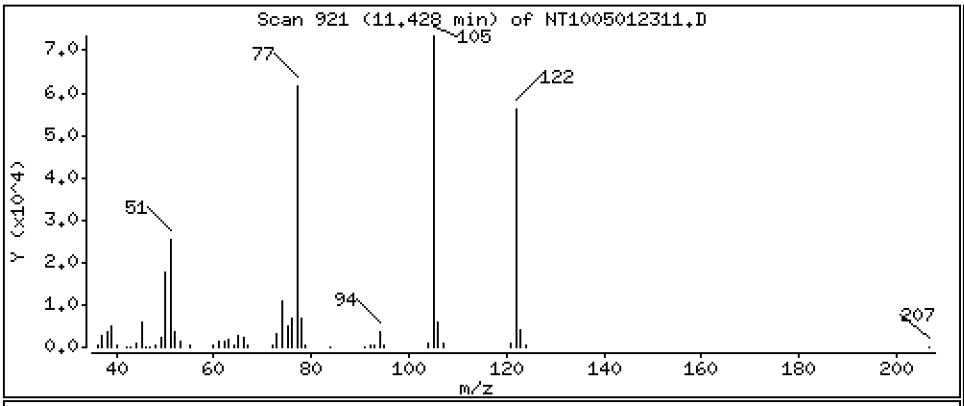
Operator: VTS

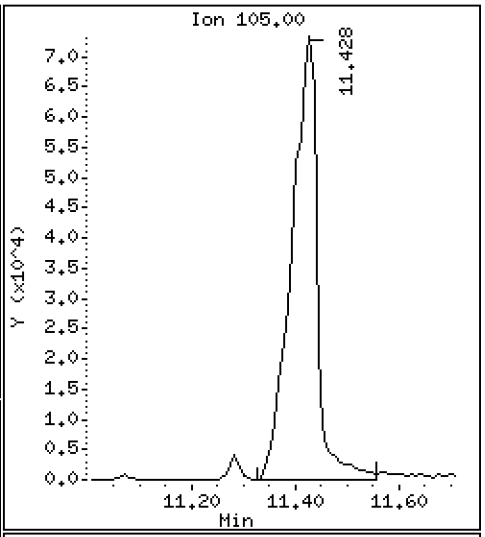
Column phase: ZB-5msi

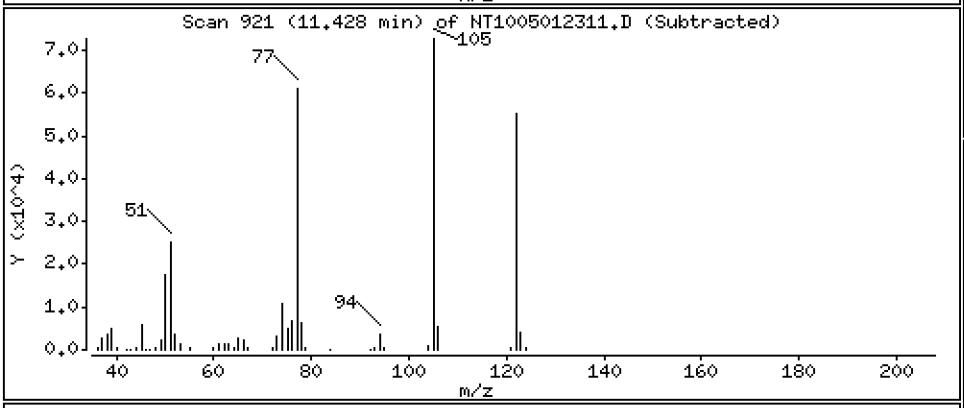
Column diameter: 0.25

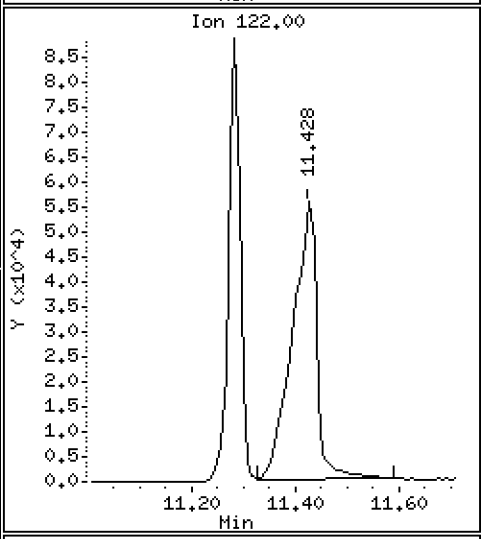
24 Benzoic acid

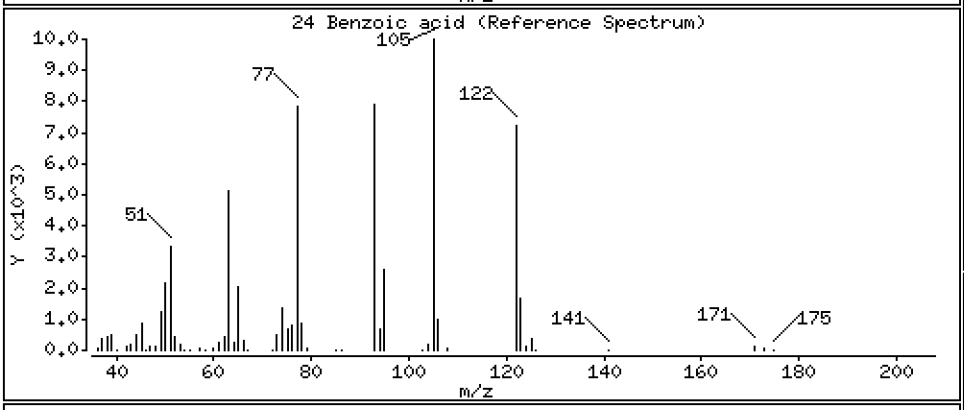
Concentration: 7.386 ug/mL

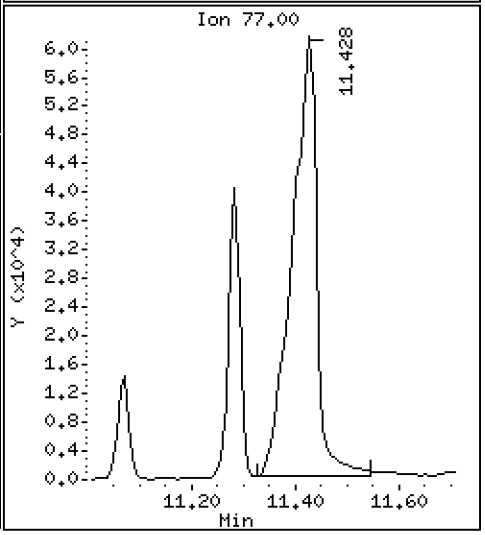


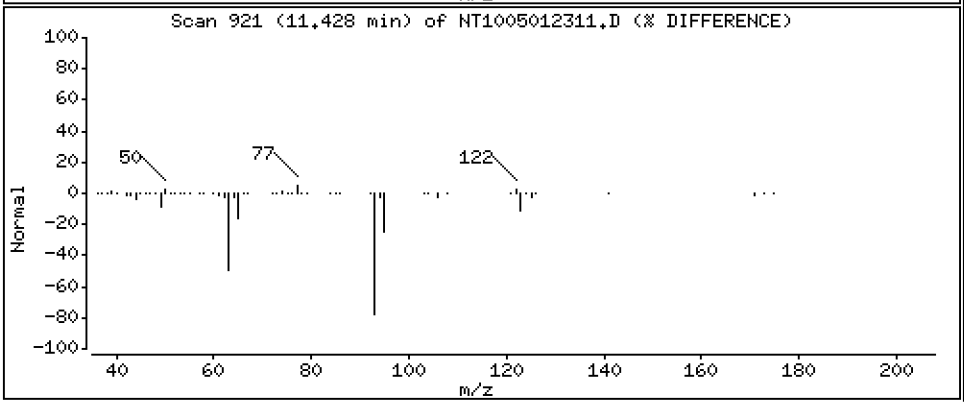












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

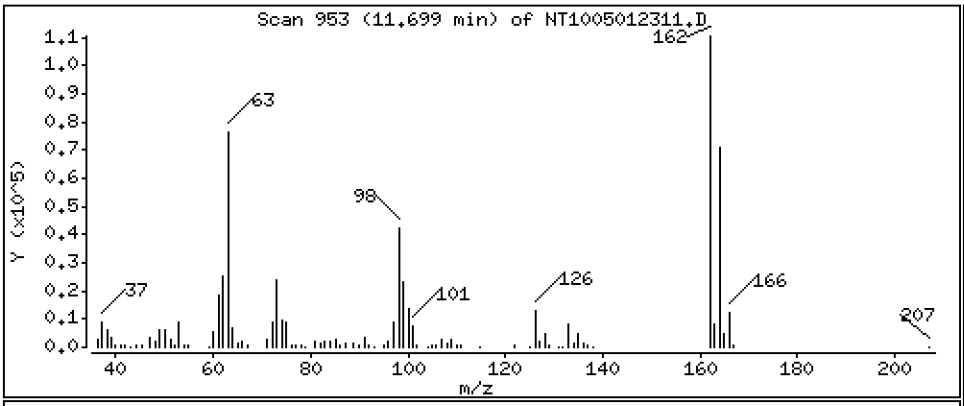
Operator: VTS

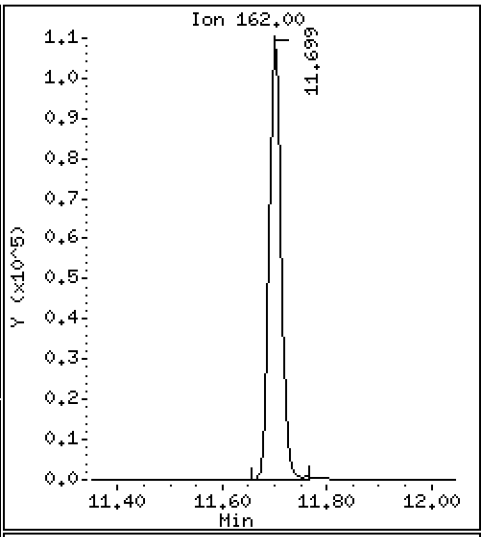
Column phase: ZB-5msi

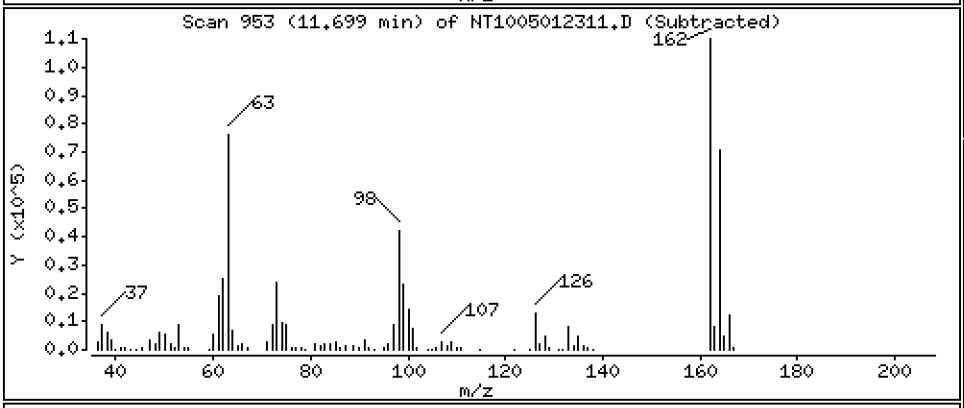
Column diameter: 0.25

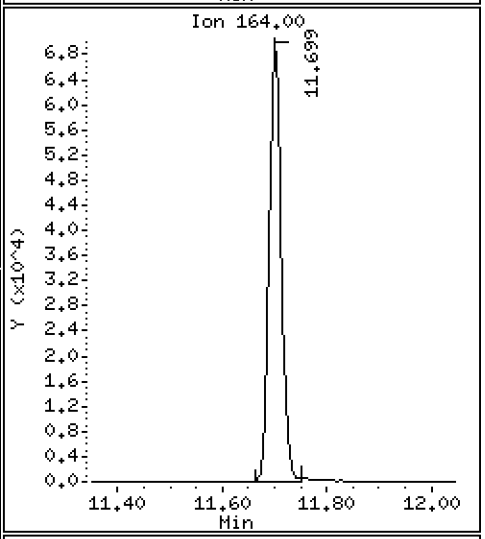
25 2,4-Dichlorophenol

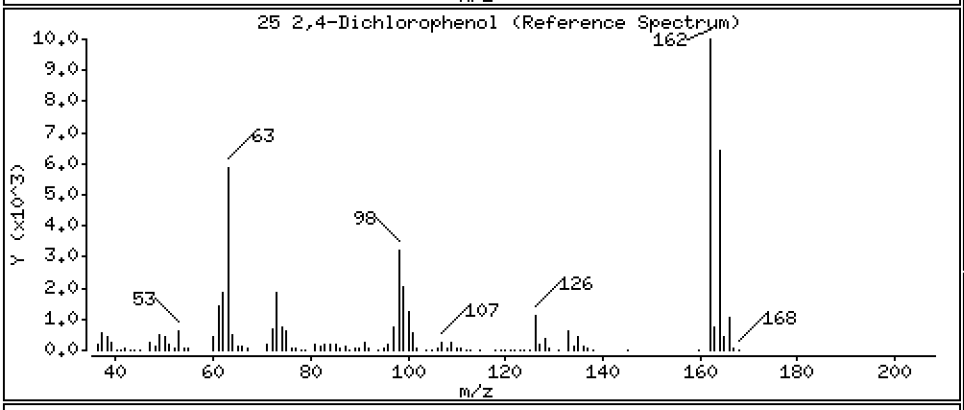
Concentration: 4.480 ug/mL

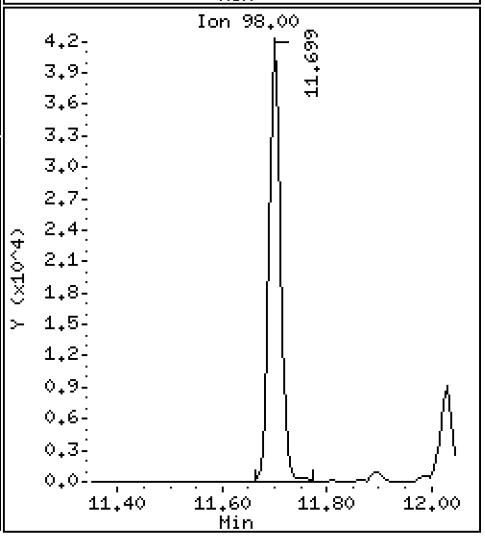


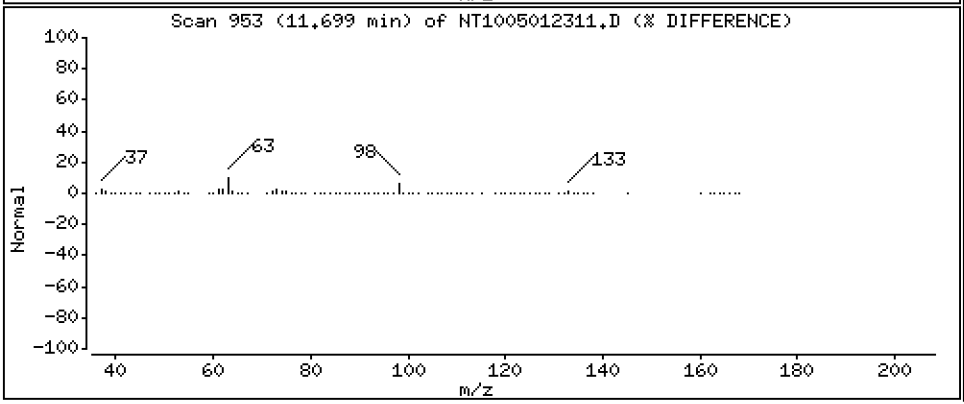












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

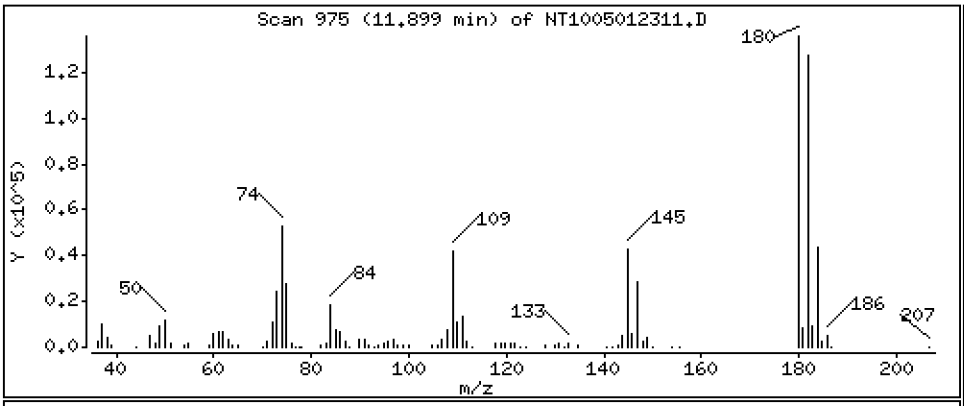
Operator: VTS

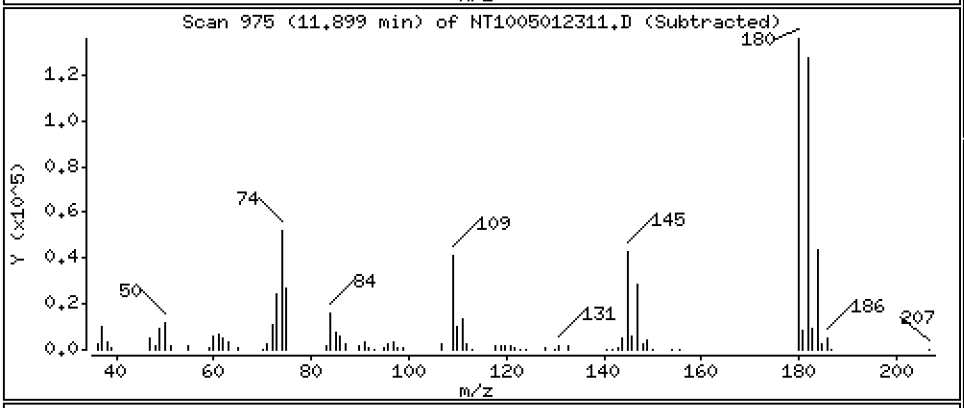
Column phase: ZB-5msi

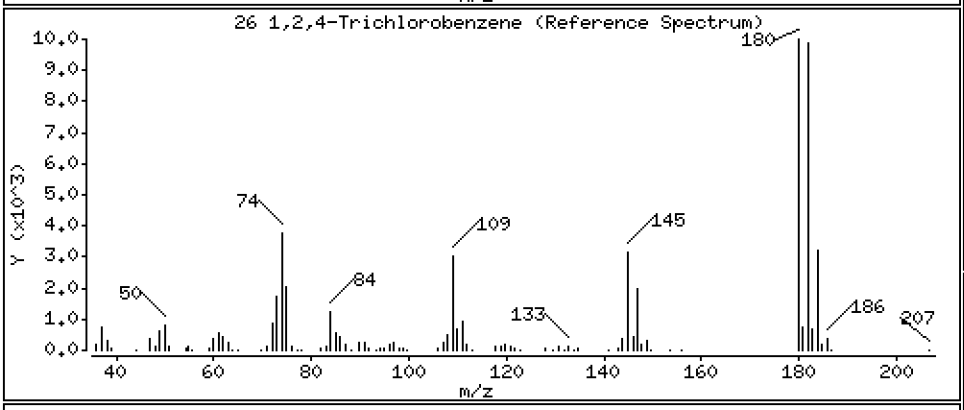
Column diameter: 0.25

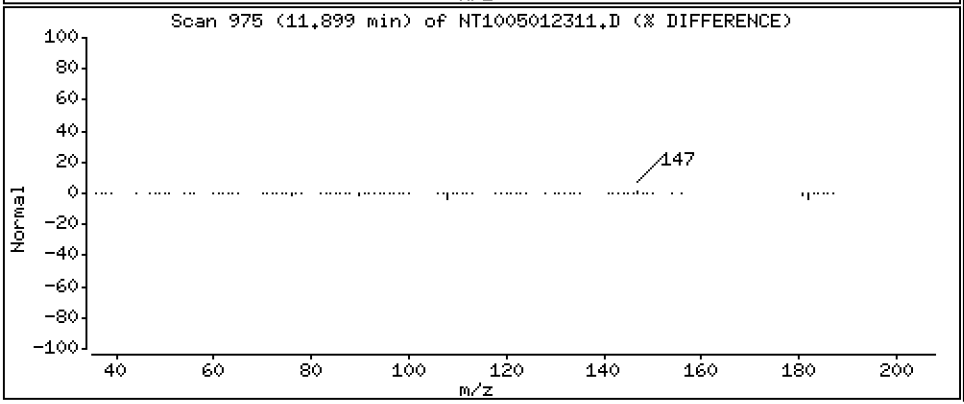
26 1,2,4-Trichlorobenzene

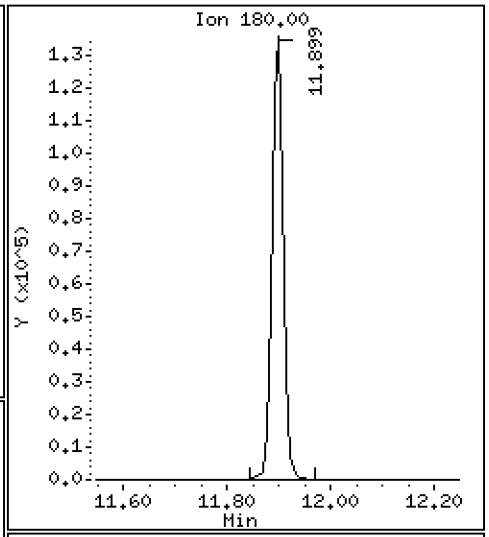
Concentration: 4.378 ug/mL

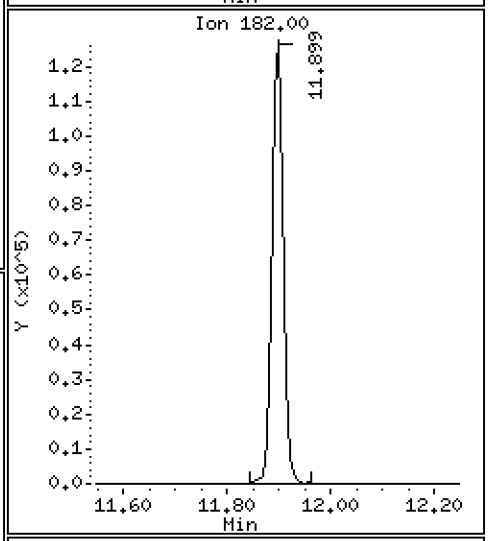


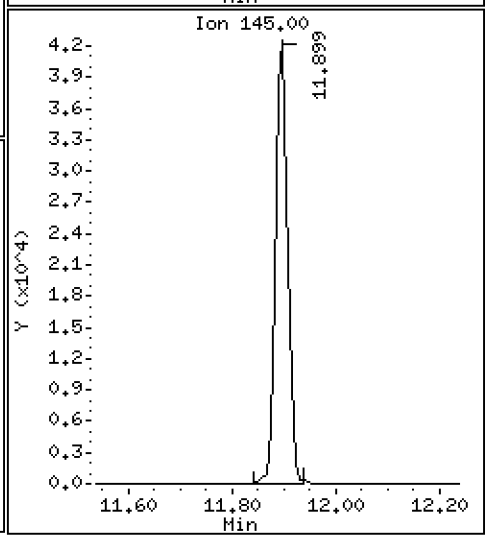












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

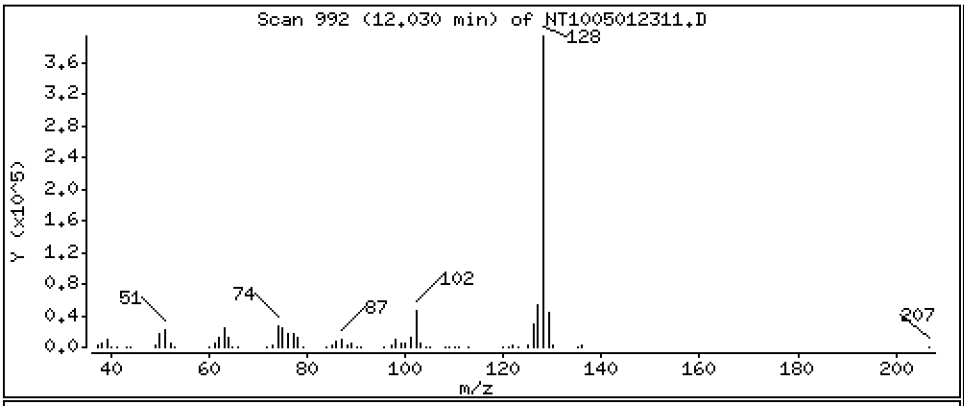
Operator: VTS

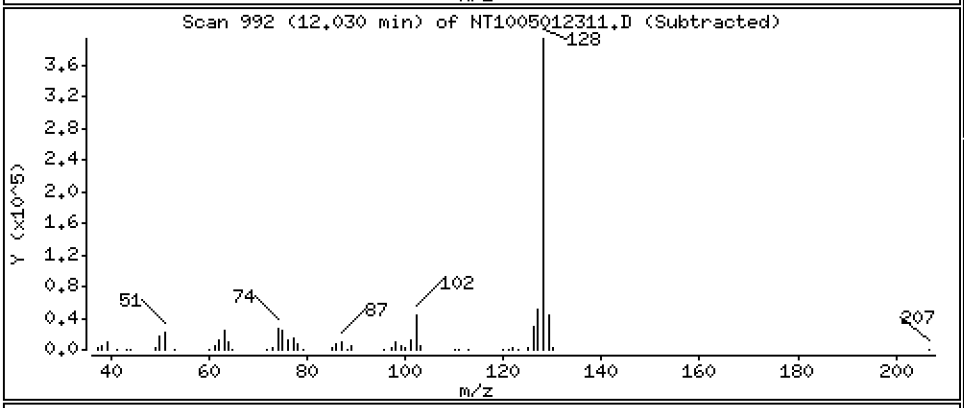
Column phase: ZB-5msi

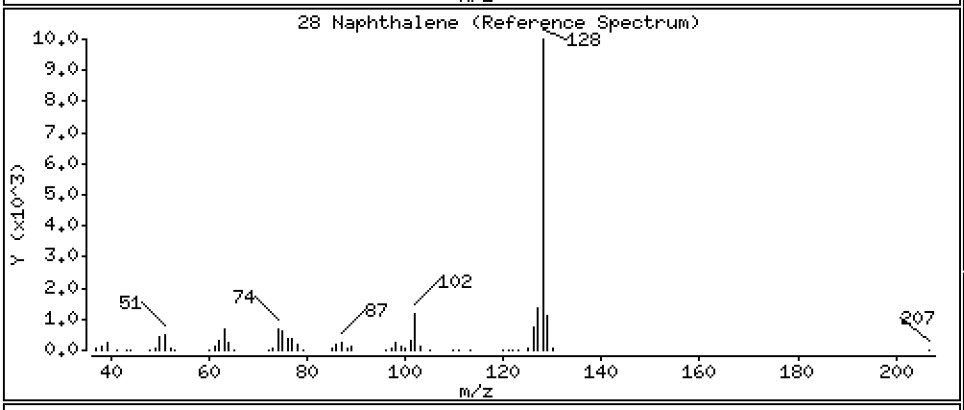
Column diameter: 0.25

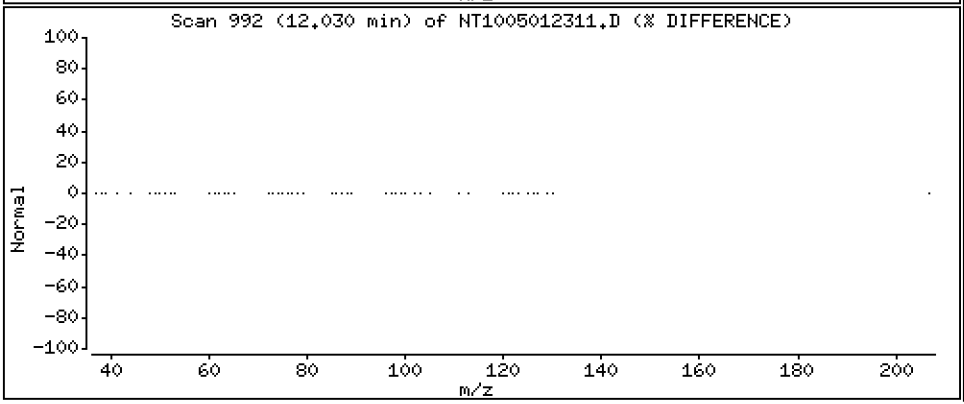
28 Naphthalene

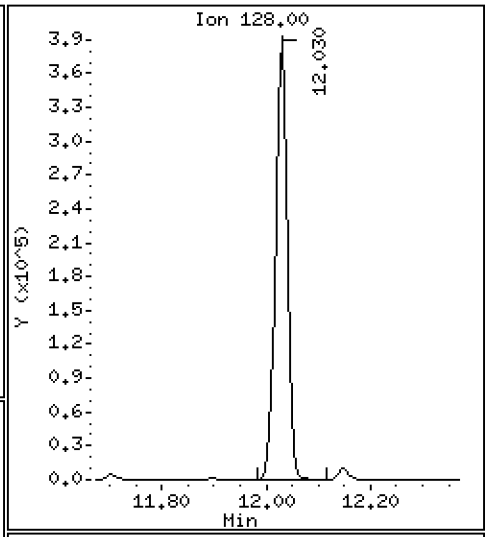
Concentration: 4.742 ug/mL

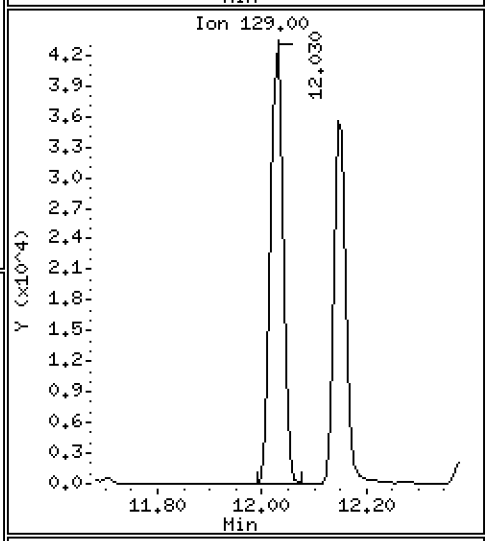


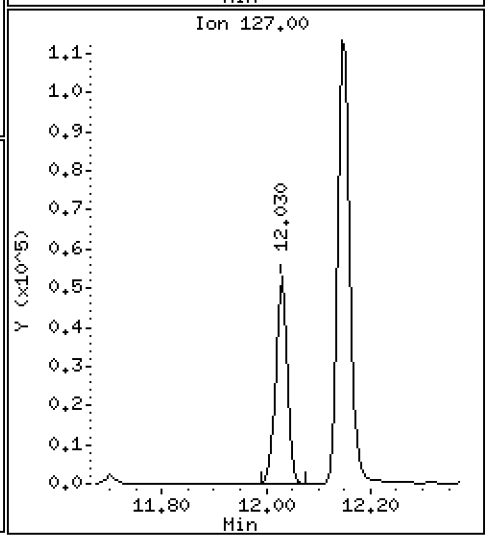












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

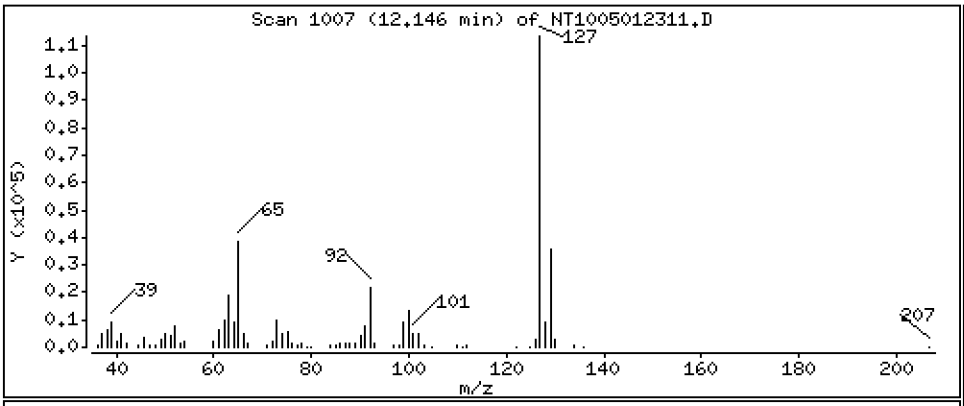
Operator: VTS

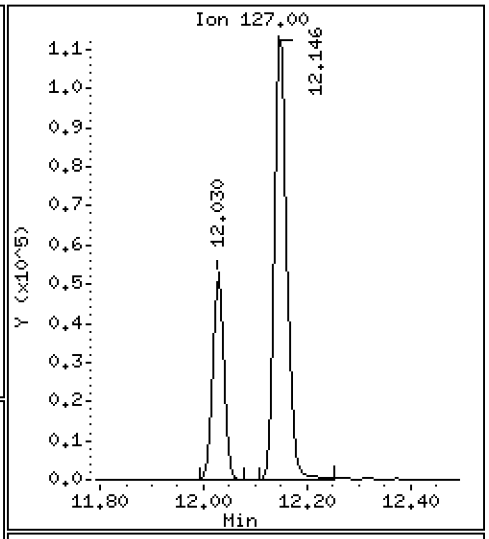
Column phase: ZB-5msi

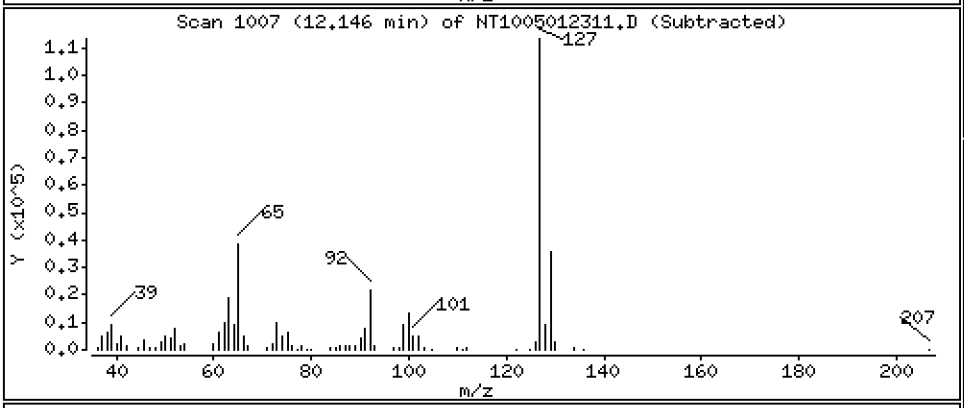
Column diameter: 0.25

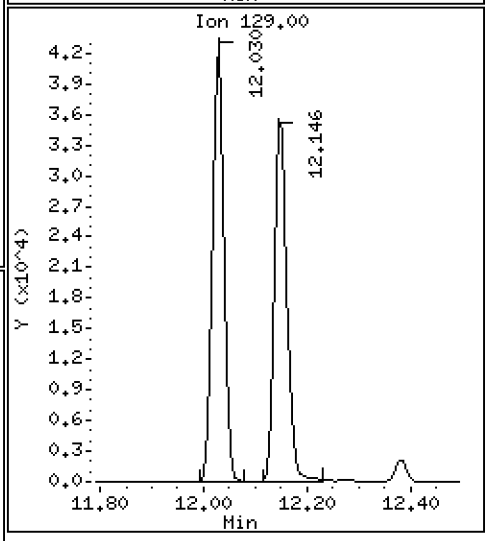
29 4-Chloroaniline

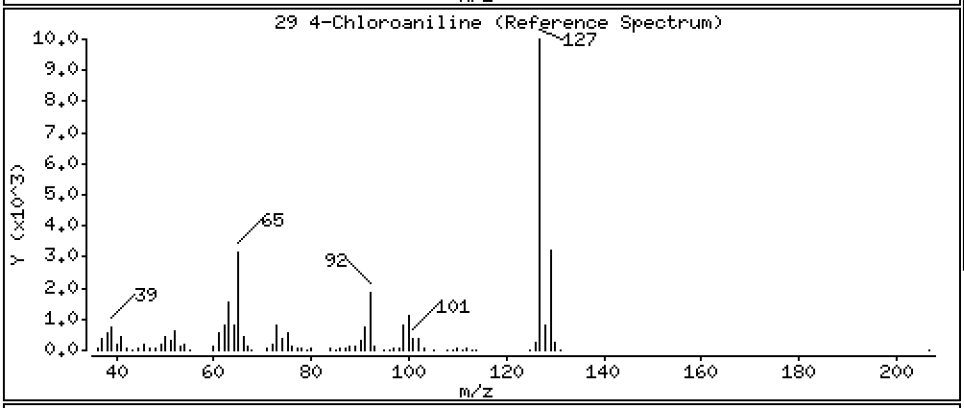
Concentration: 3.956 ug/mL

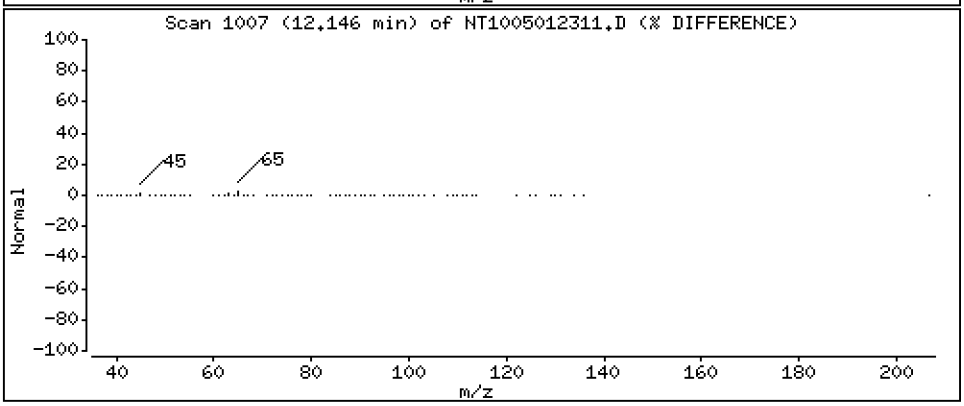












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

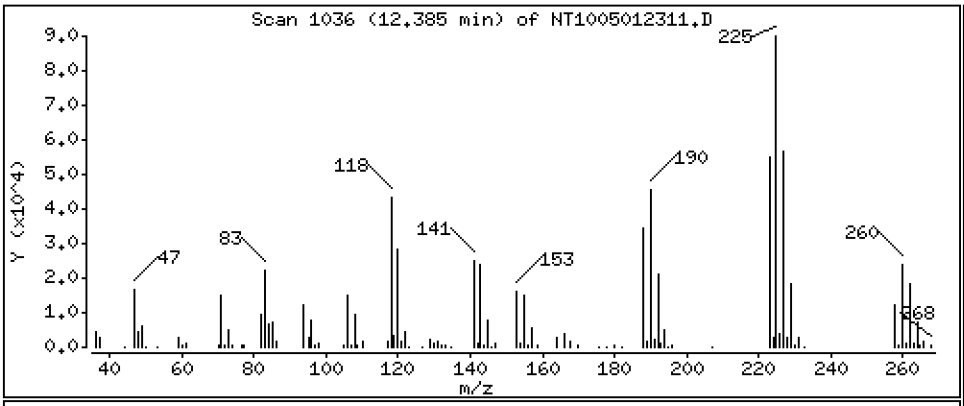
Operator: VTS

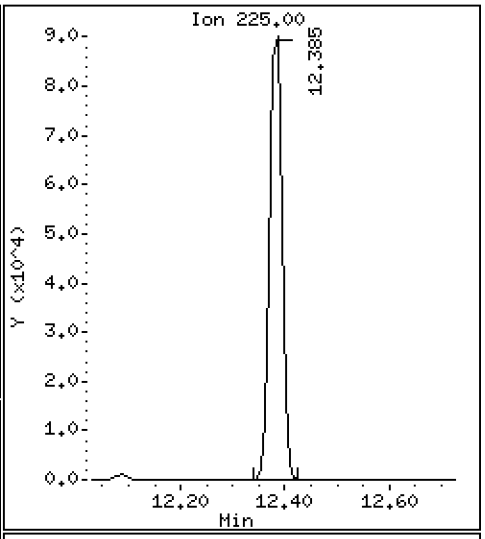
Column phase: ZB-5msi

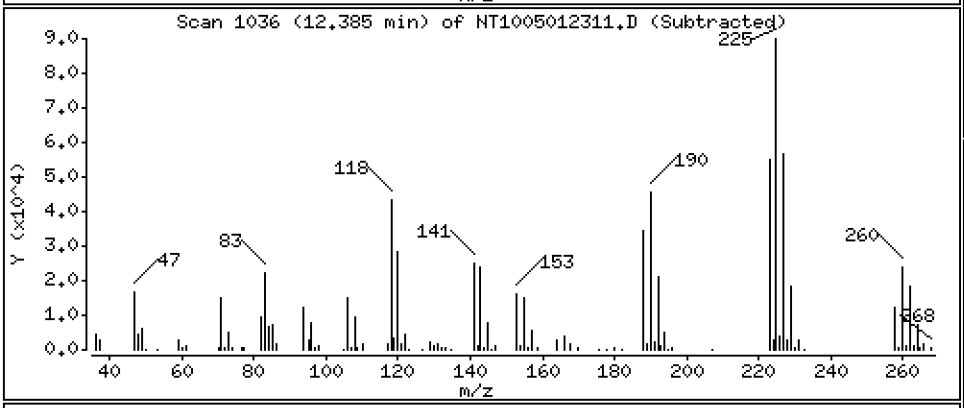
Column diameter: 0.25

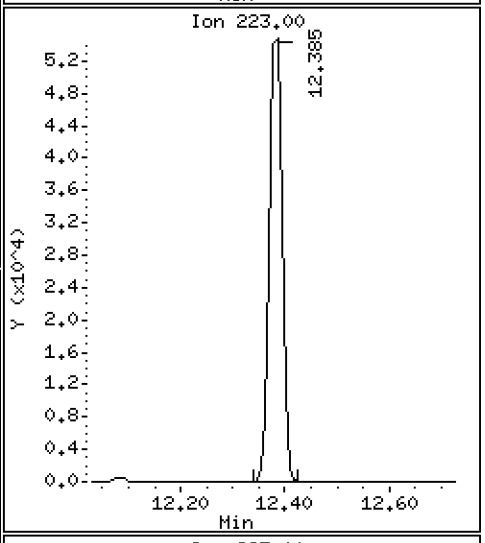
30 Hexachlorobutadiene

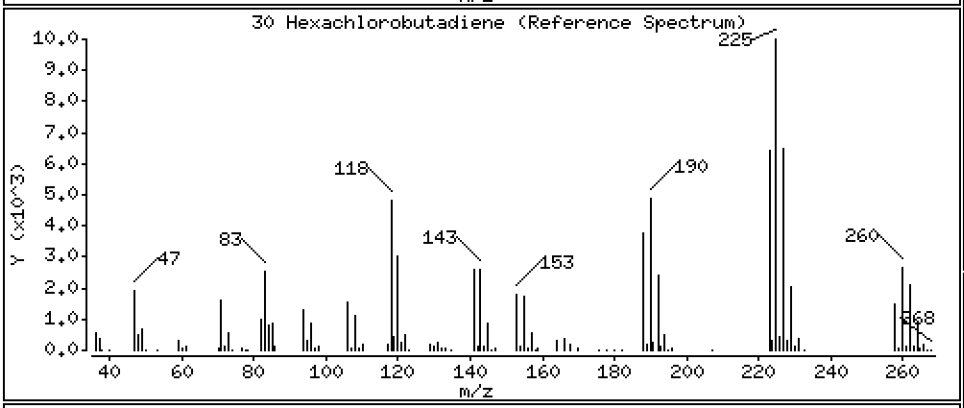
Concentration: 4.626 ug/mL

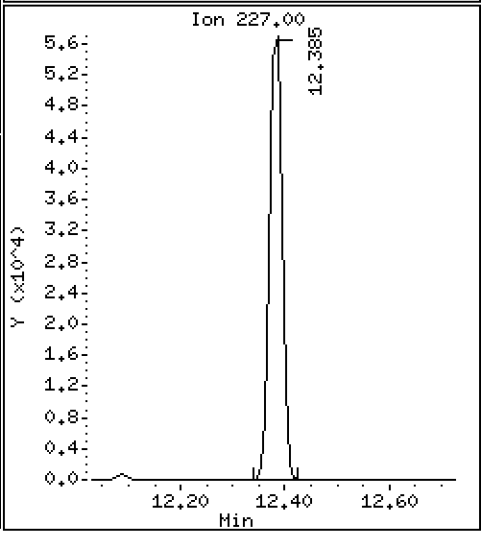


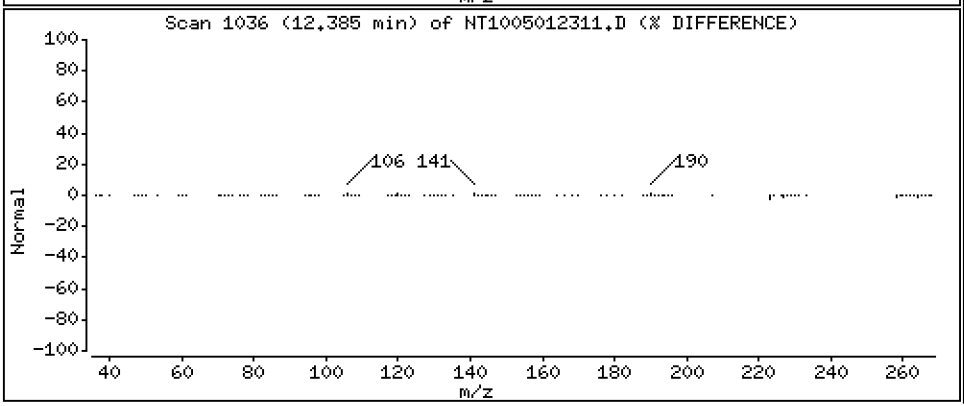












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

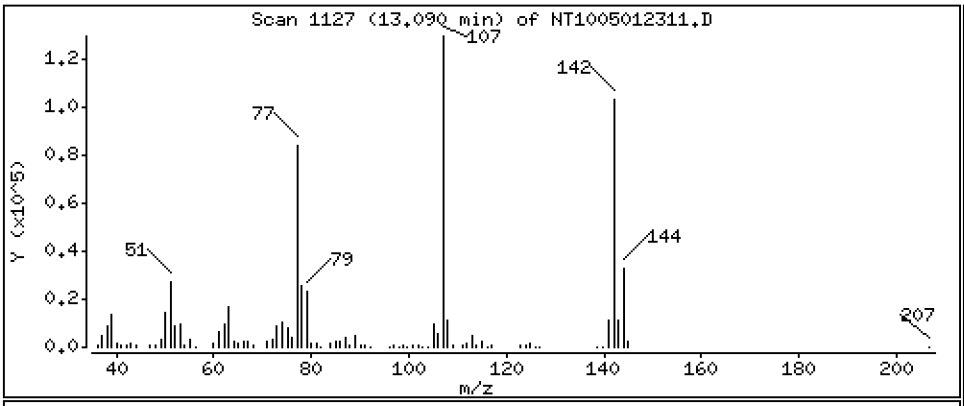
Operator: VTS

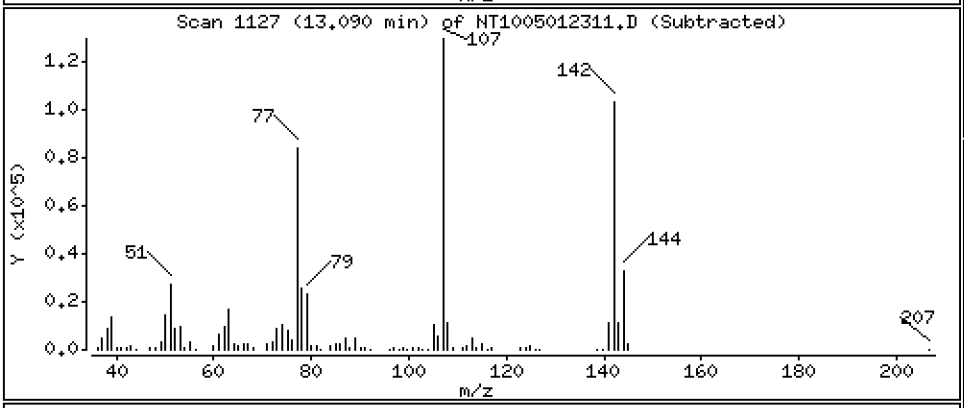
Column phase: ZB-5msi

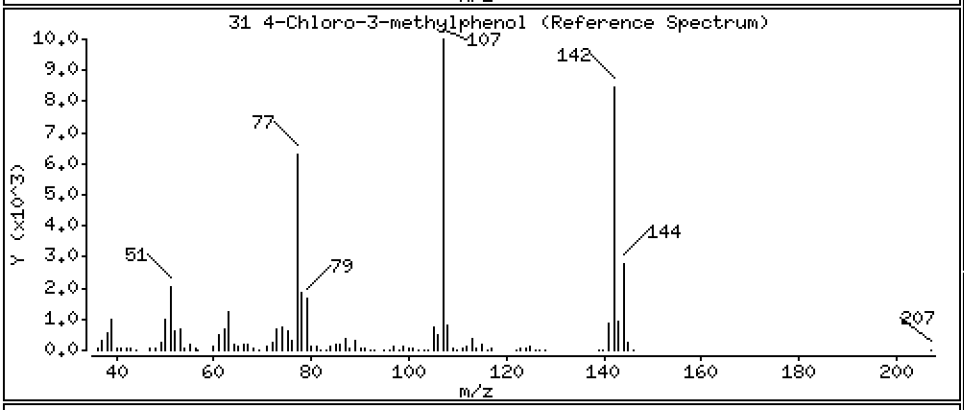
Column diameter: 0.25

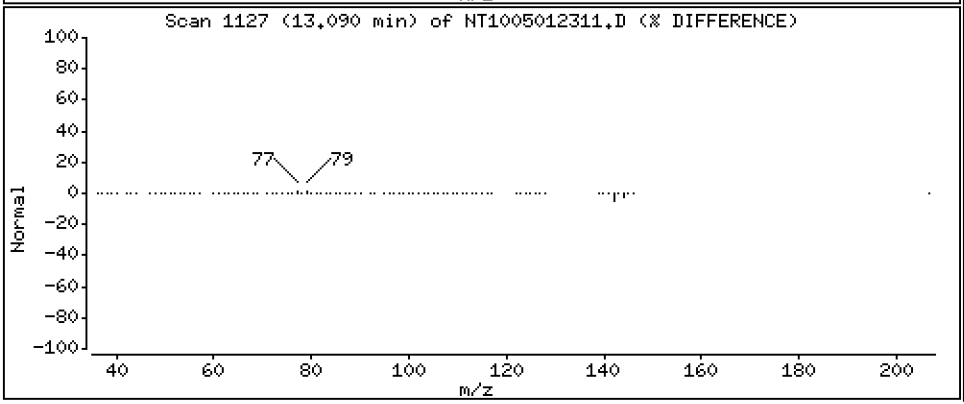
31 4-Chloro-3-methylphenol

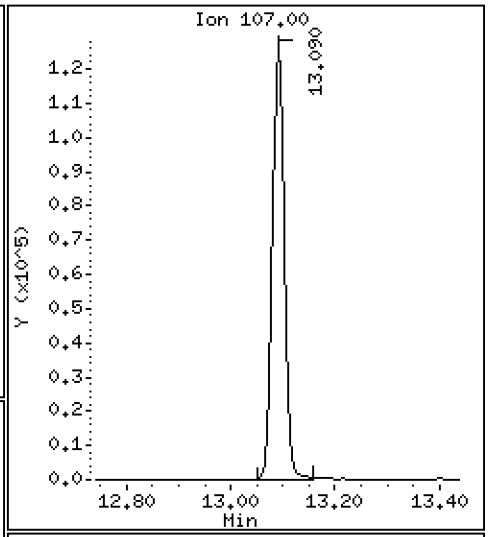
Concentration: 4.460 ug/mL

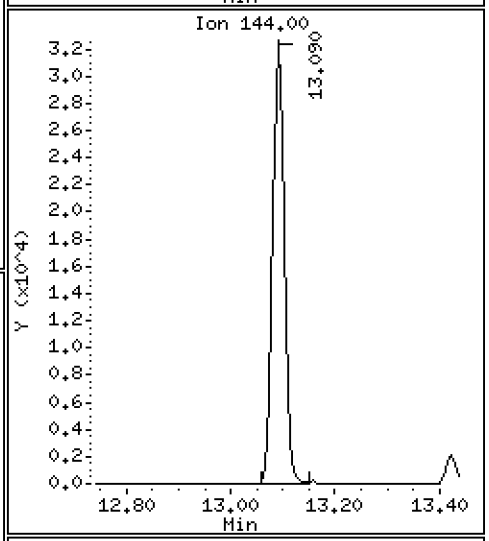


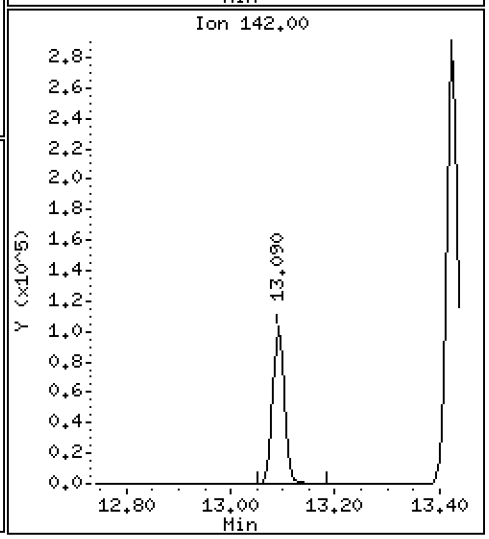












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

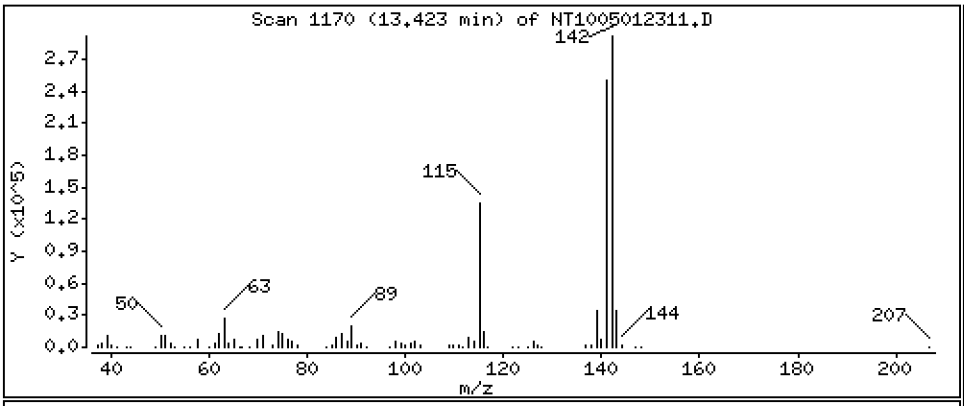
Operator: VTS

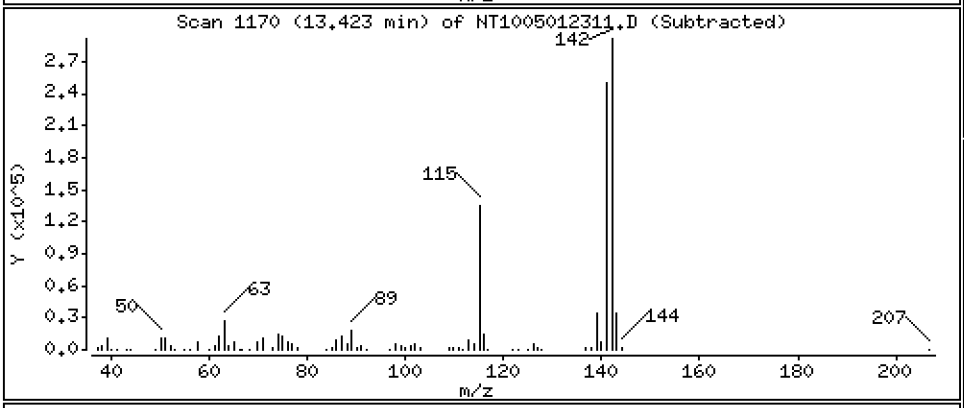
Column phase: ZB-5msi

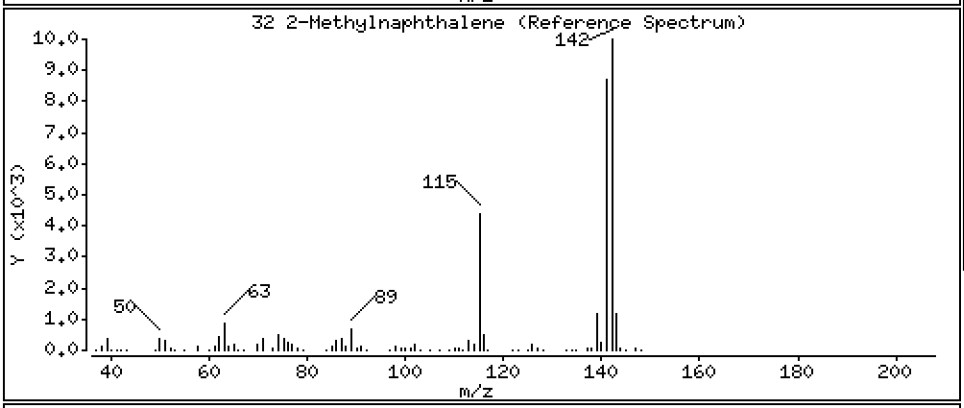
Column diameter: 0.25

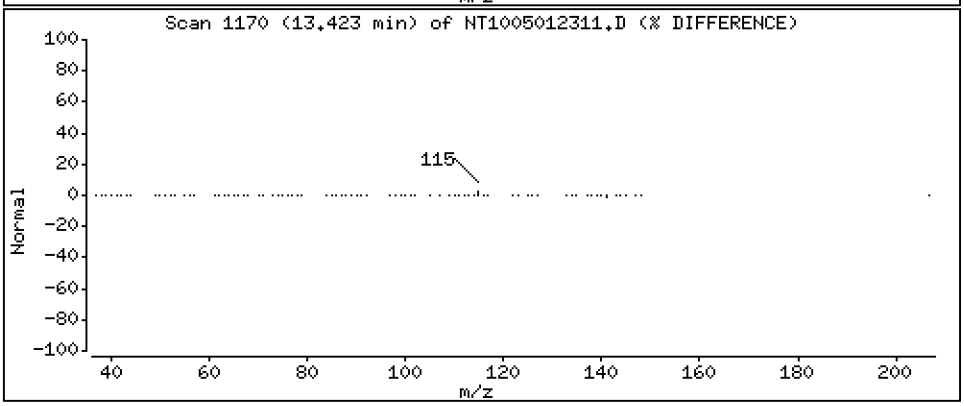
32 2-Methylnaphthalene

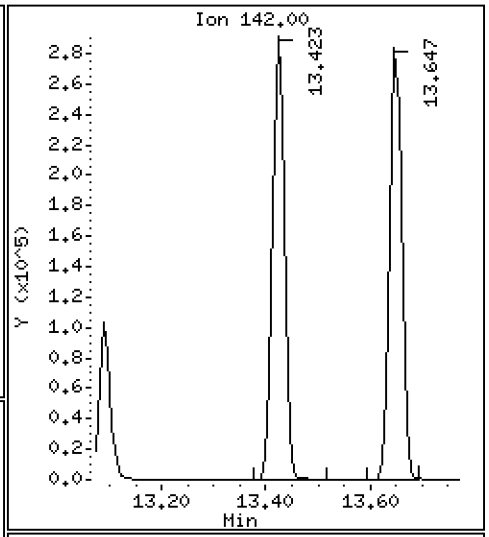
Concentration: 4.513 ug/mL

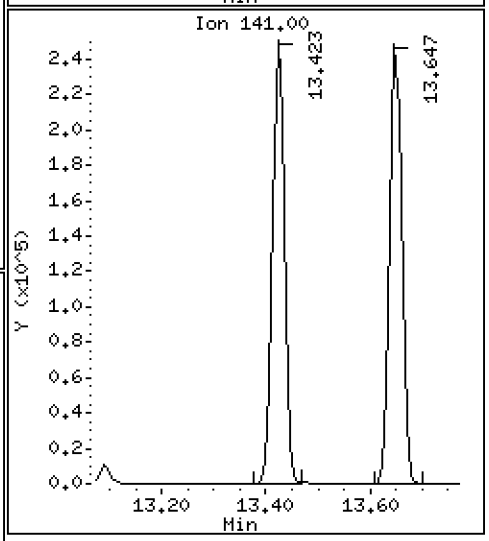












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

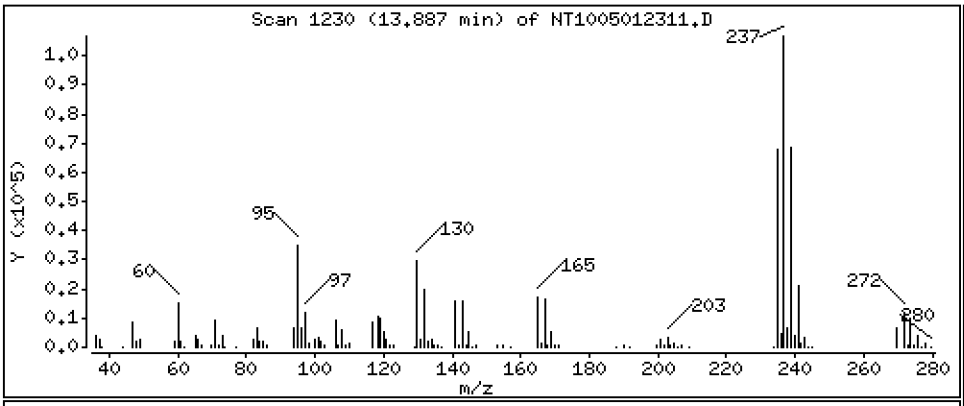
Operator: VTS

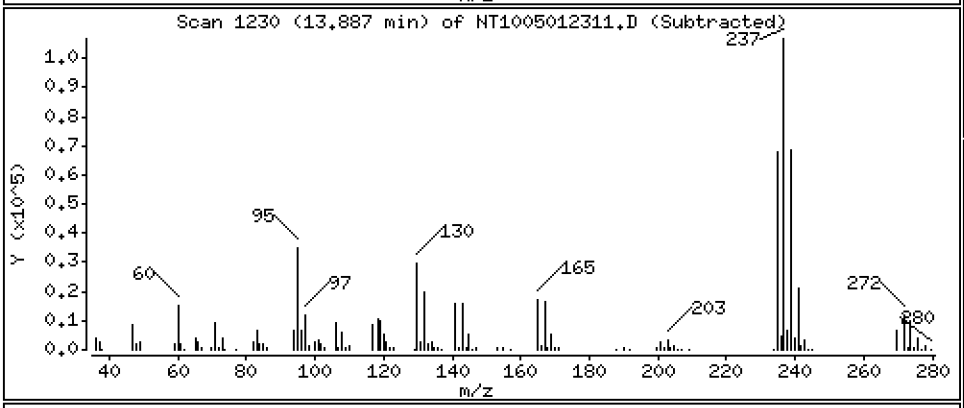
Column phase: ZB-5msi

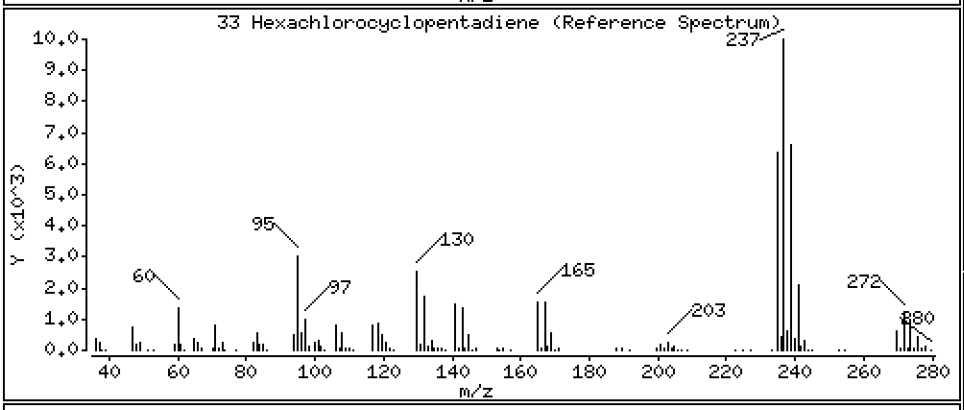
Column diameter: 0.25

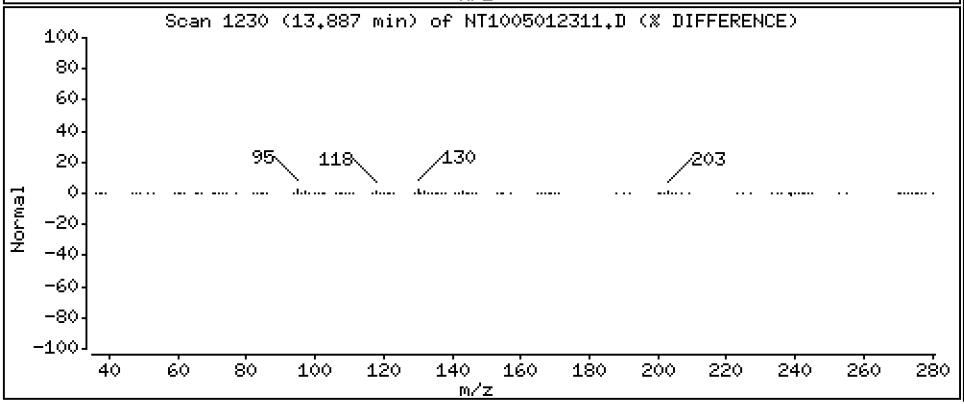
33 Hexachlorocyclopentadiene

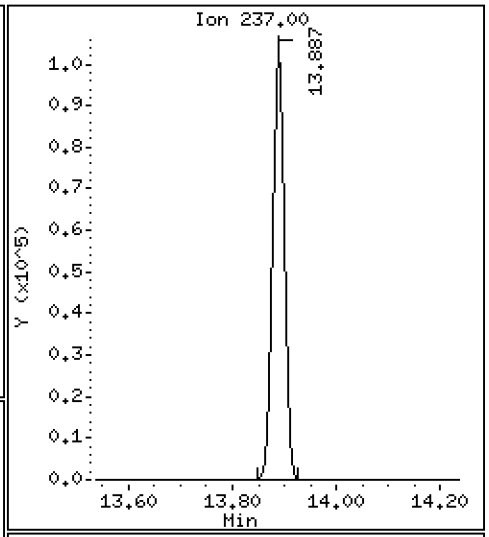
Concentration: 4.673 ug/mL

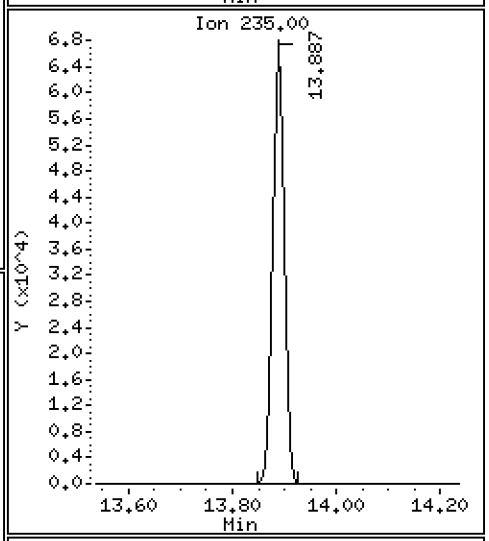


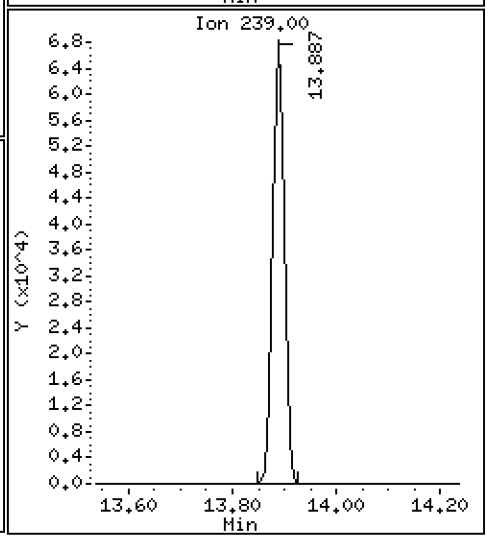












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

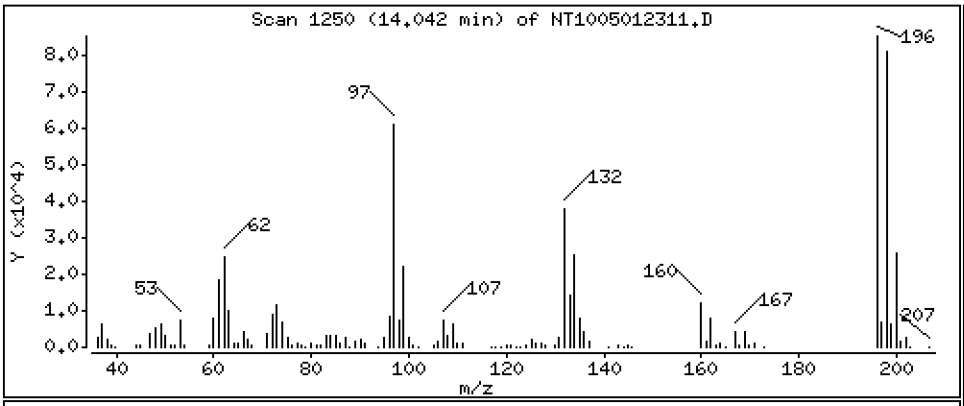
Operator: VTS

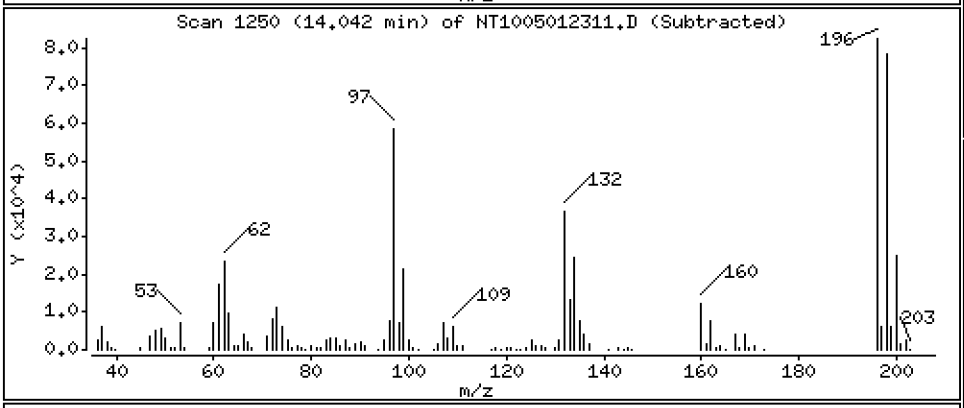
Column phase: ZB-5msi

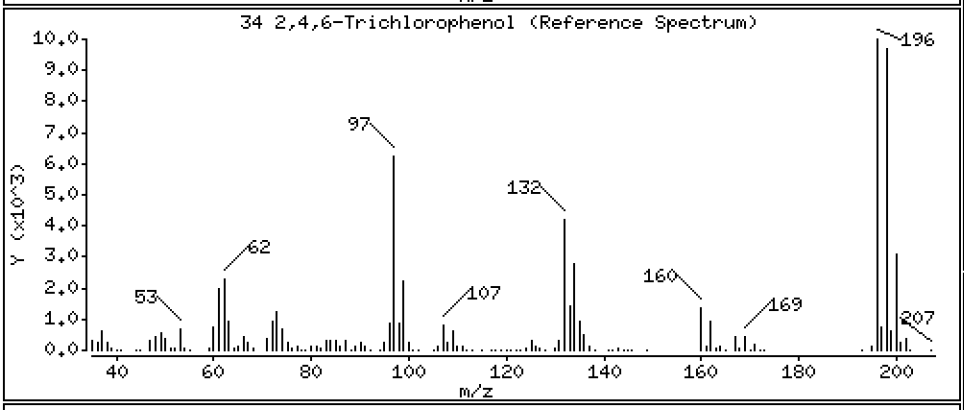
Column diameter: 0.25

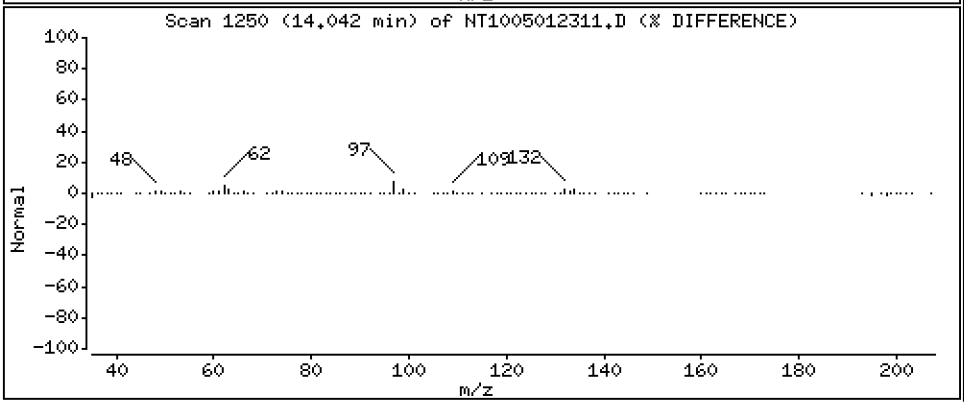
34 2,4,6-Trichlorophenol

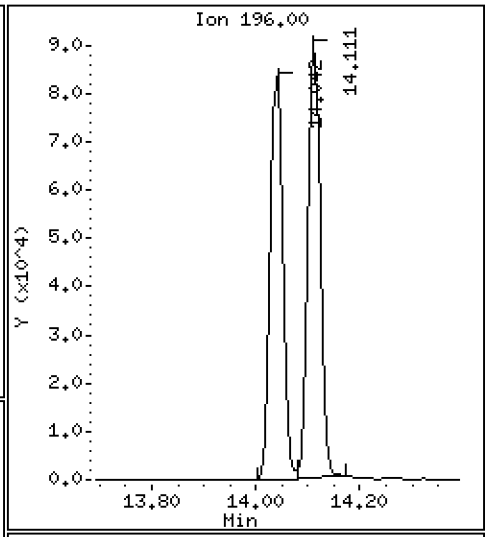
Concentration: 4.212 ug/mL

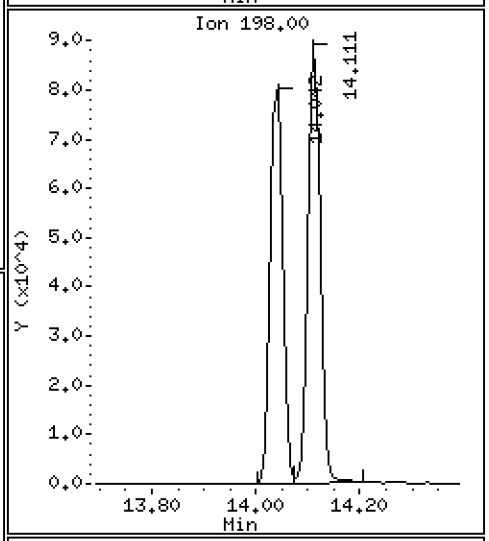


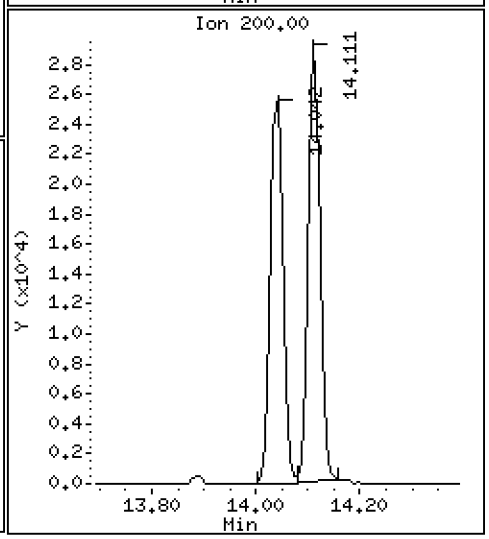












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

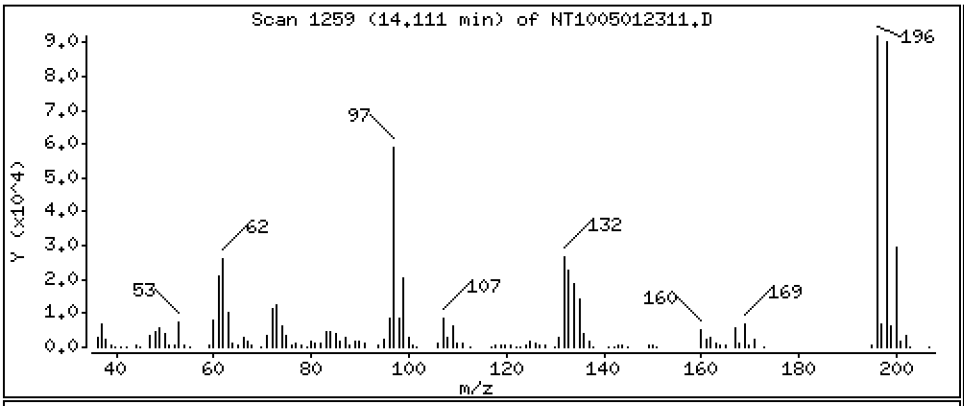
Operator: VTS

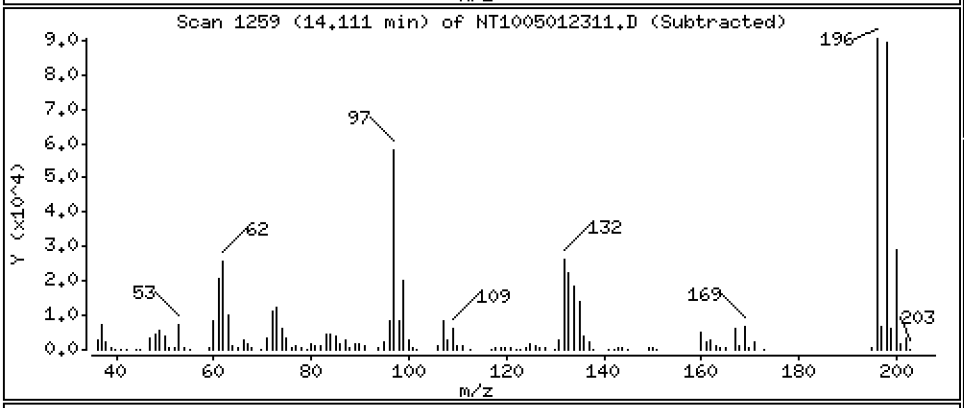
Column phase: ZB-5msi

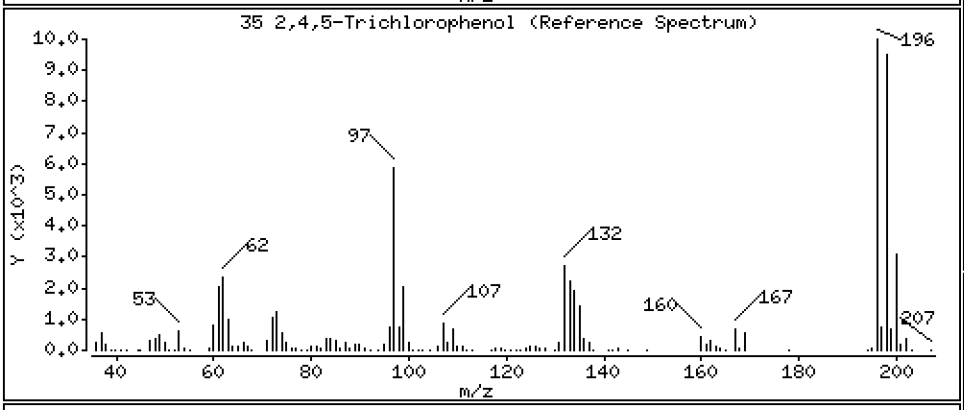
Column diameter: 0.25

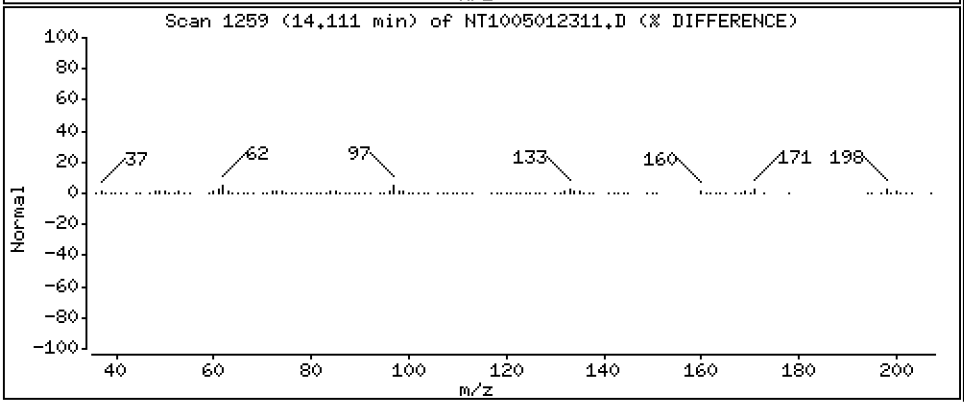
35 2,4,5-Trichlorophenol

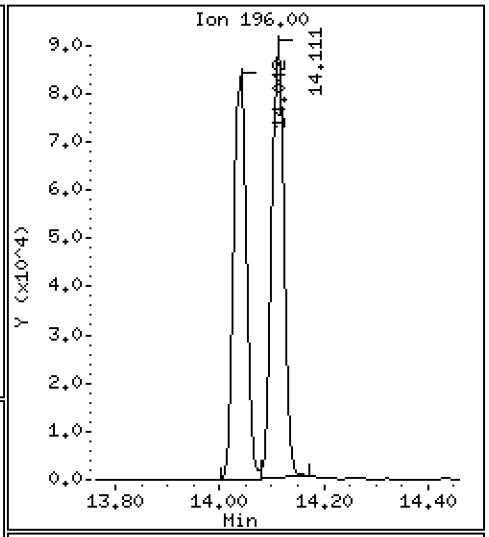
Concentration: 4.029 ug/mL

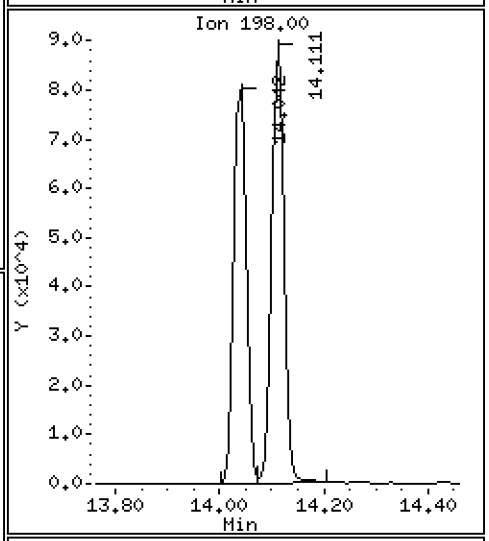


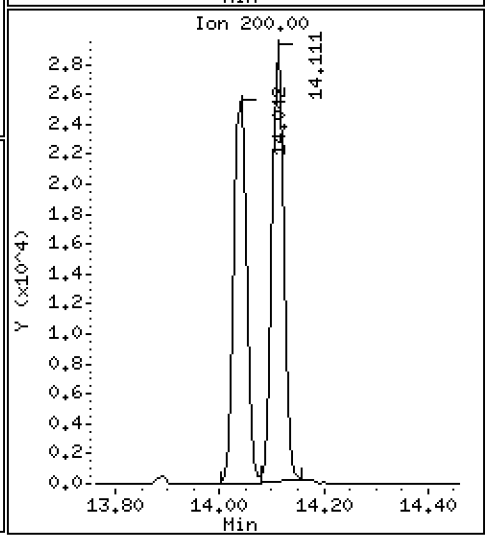












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

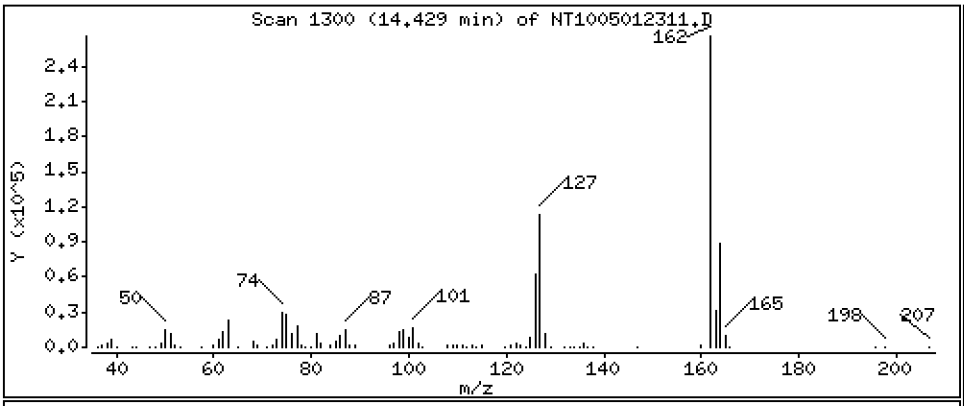
Operator: VTS

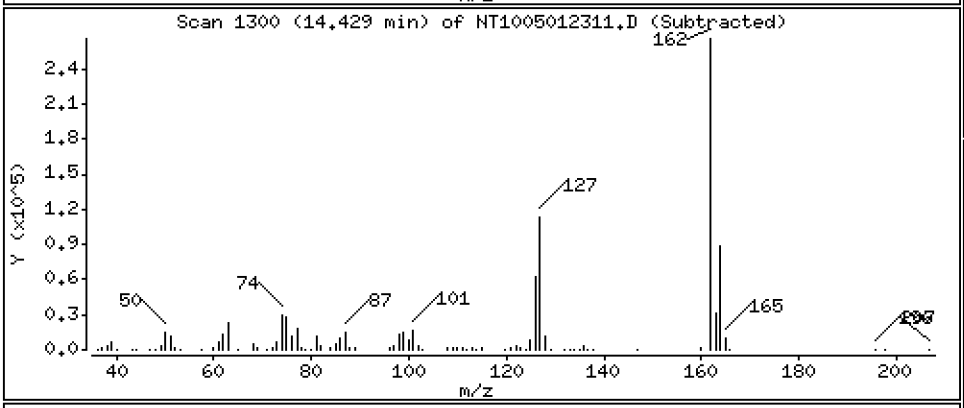
Column phase: ZB-5msi

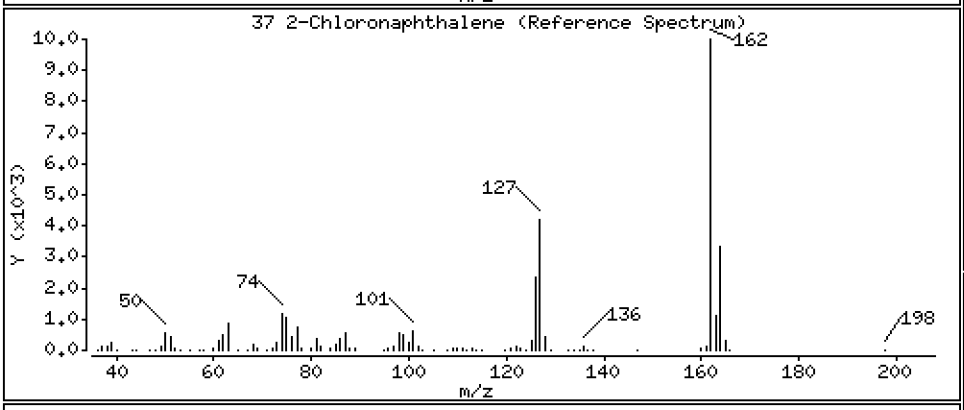
Column diameter: 0.25

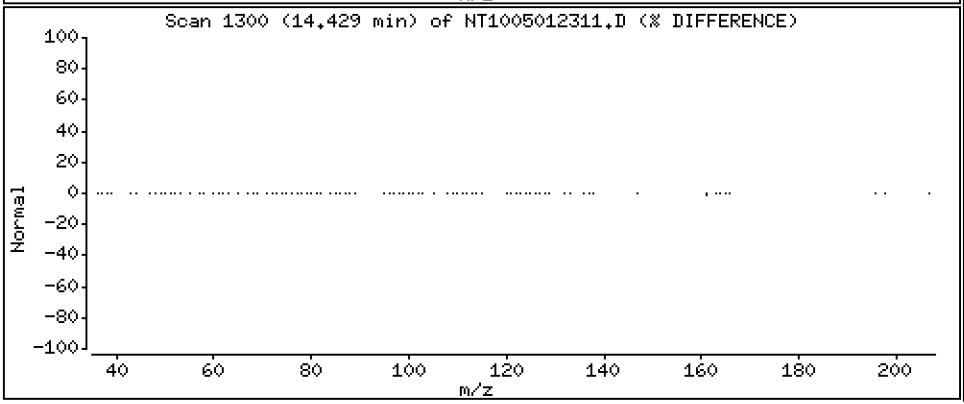
37 2-Chloronaphthalene

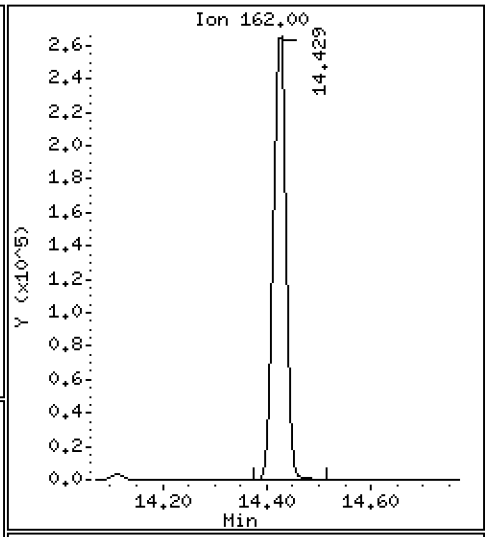
Concentration: 4.830 ug/mL

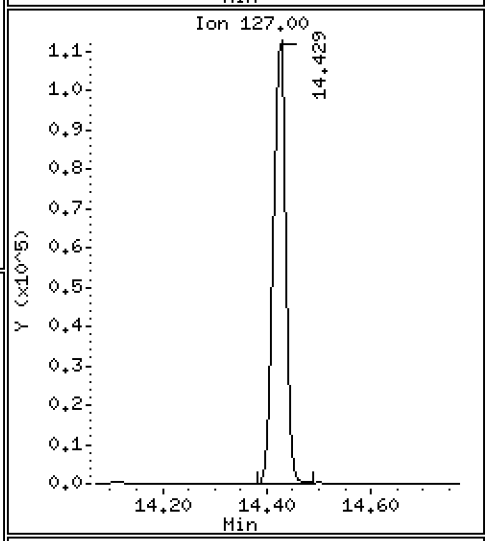


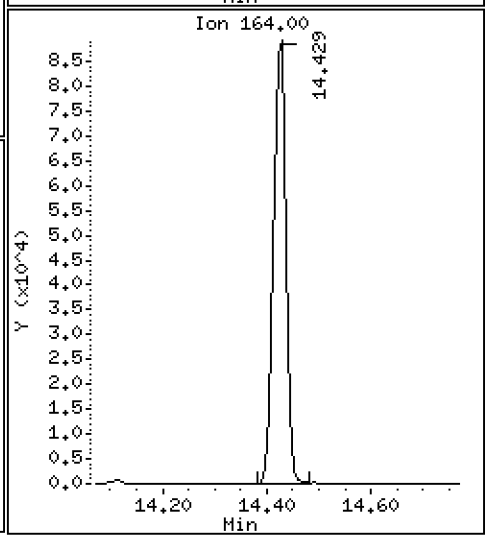












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

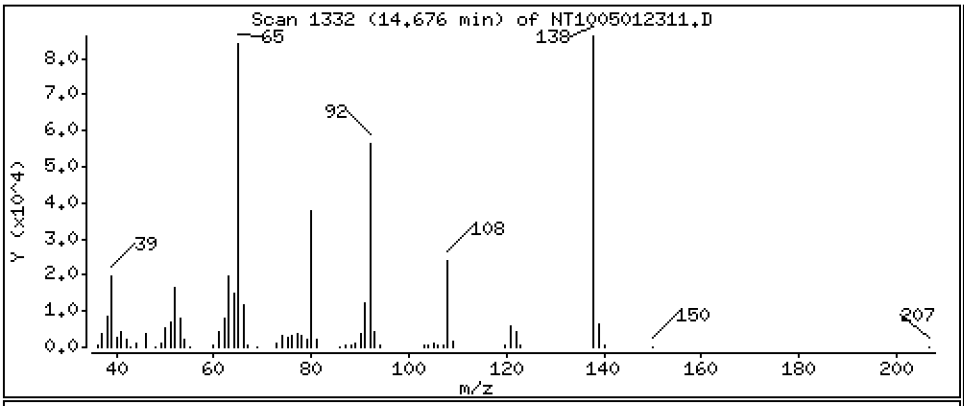
Operator: VTS

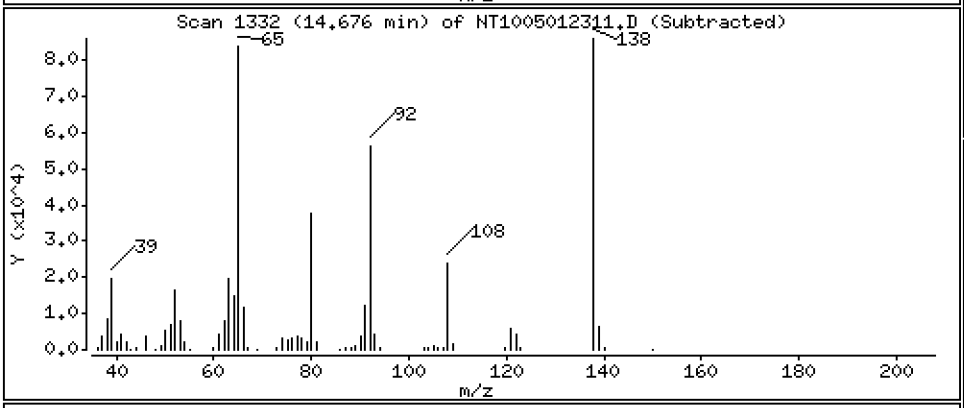
Column phase: ZB-5msi

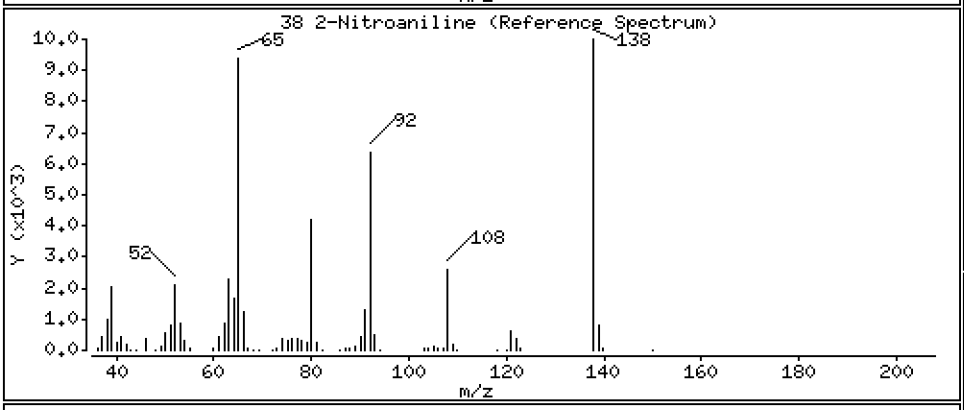
Column diameter: 0.25

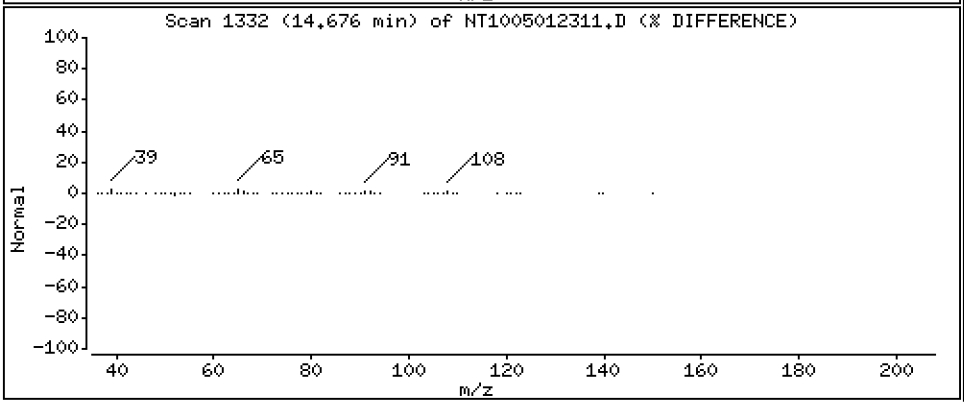
38 2-Nitroaniline

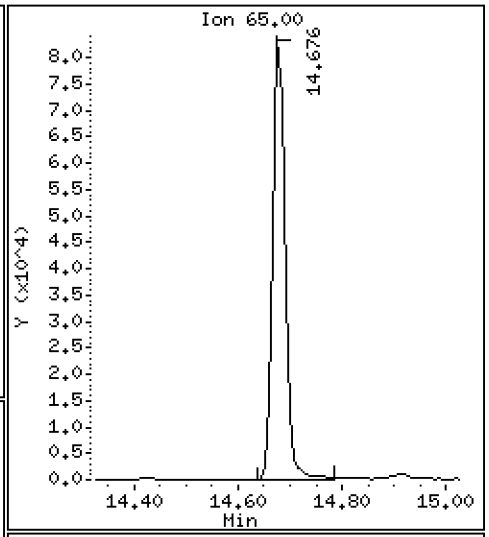
Concentration: 5.029 ug/mL

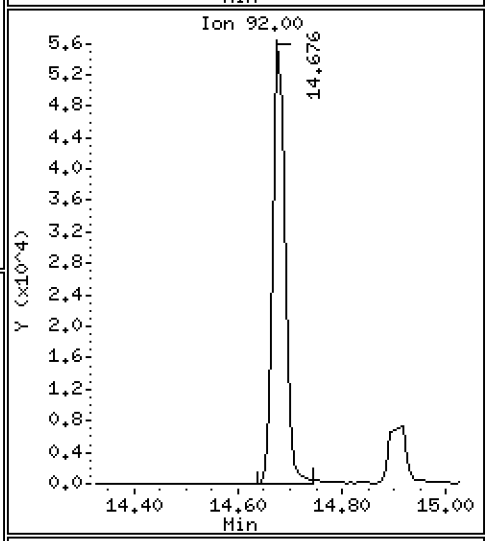


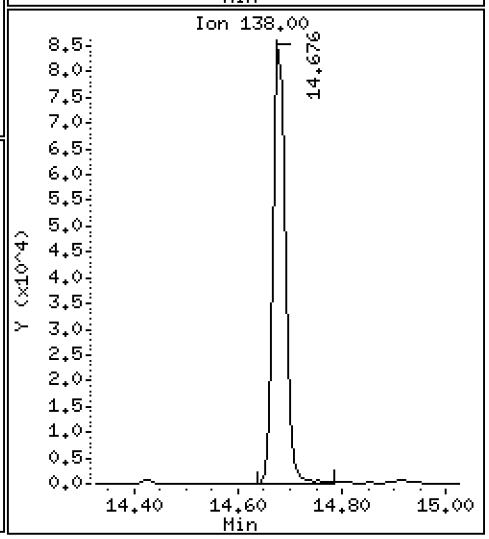












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

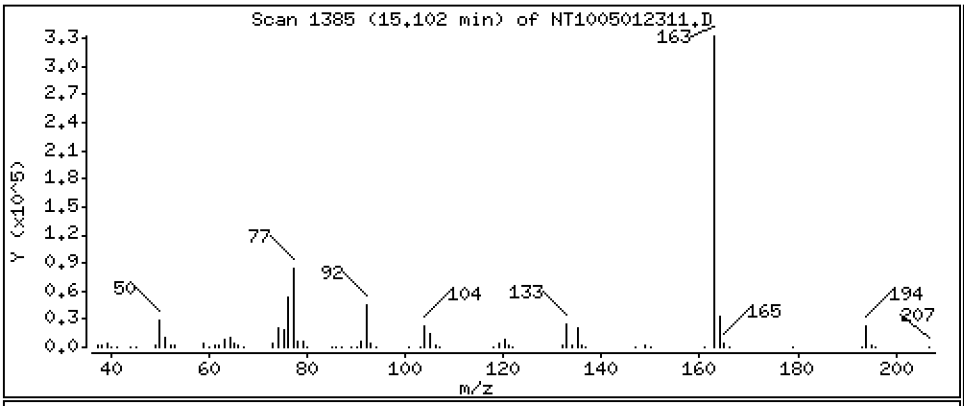
Operator: VTS

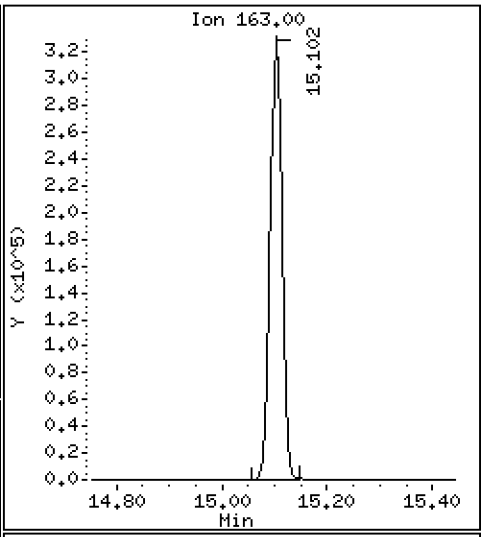
Column phase: ZB-5msi

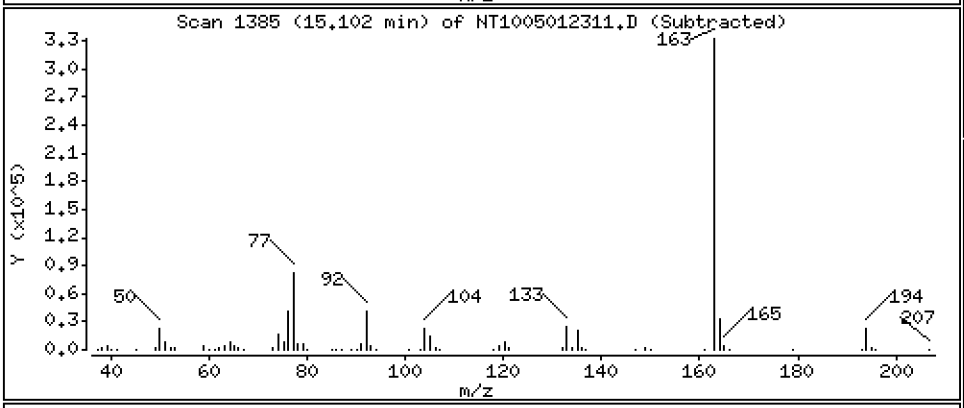
Column diameter: 0.25

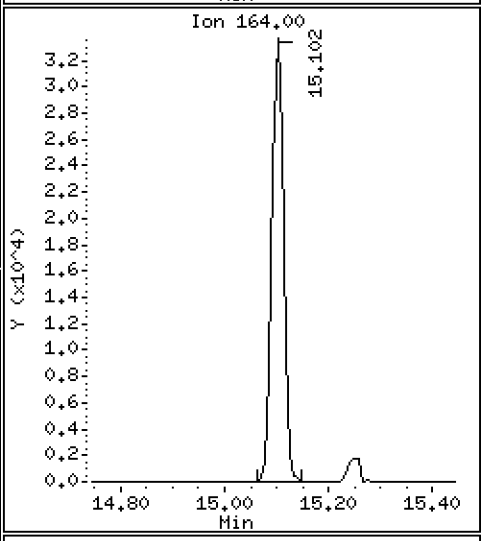
39 Dimethylphthalate

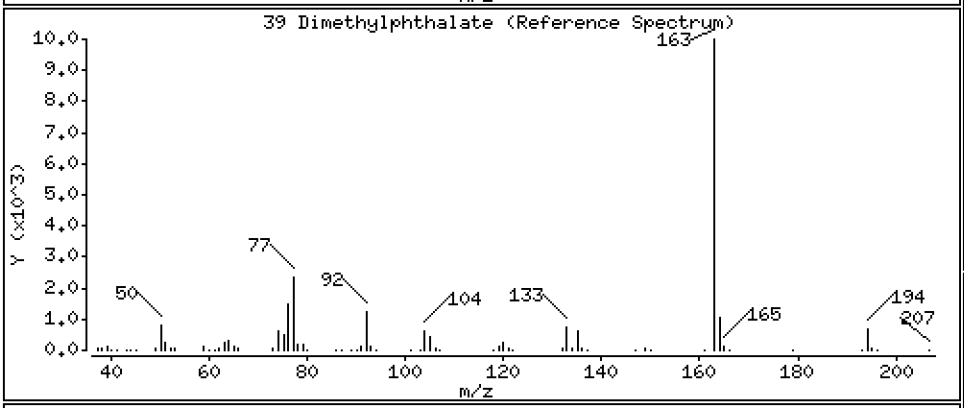
Concentration: 4.908 ug/mL

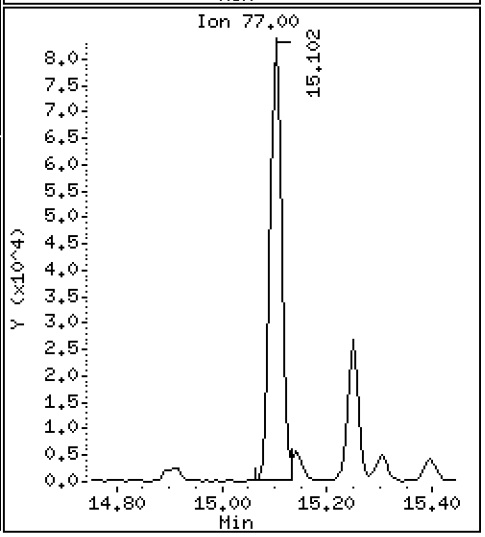


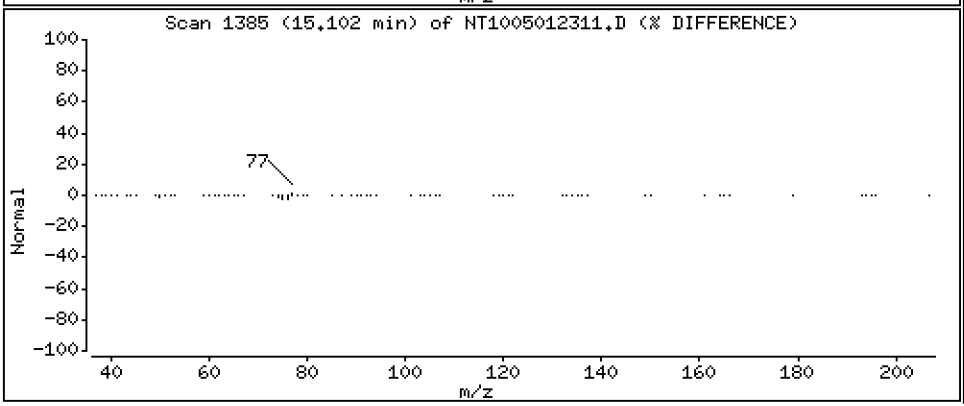












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

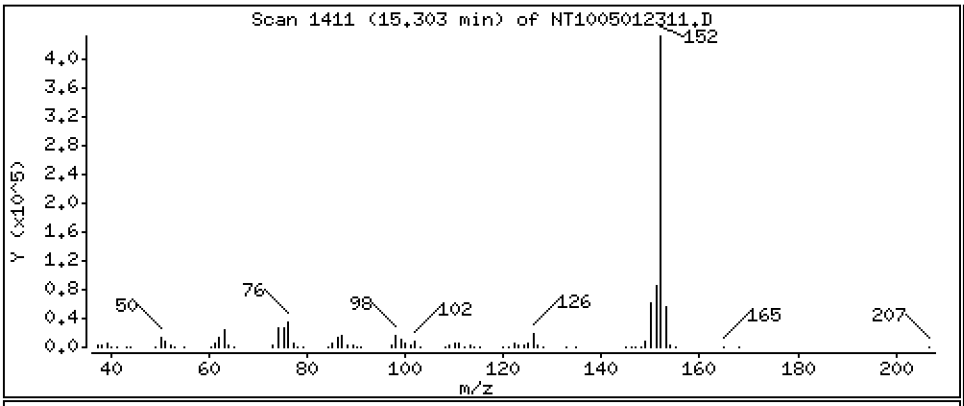
Operator: VTS

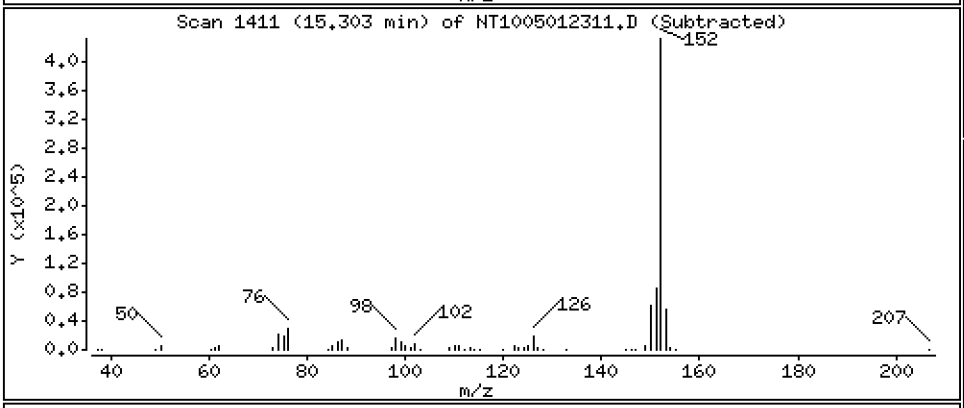
Column phase: ZB-5msi

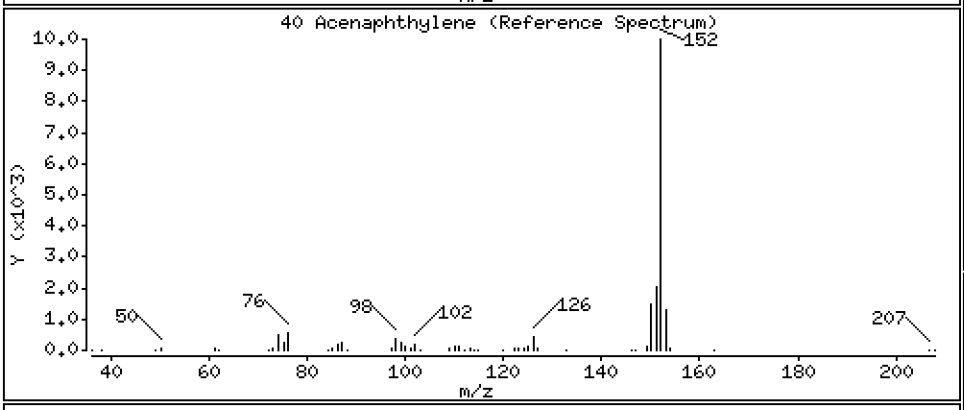
Column diameter: 0.25

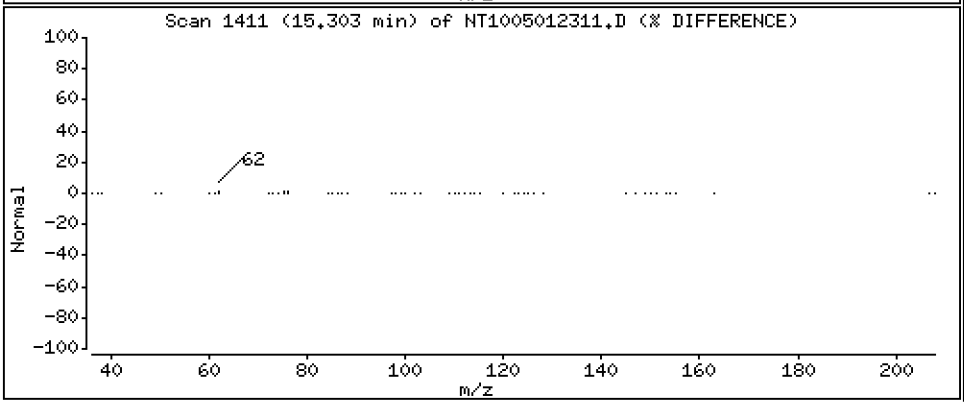
40 Acenaphthylene

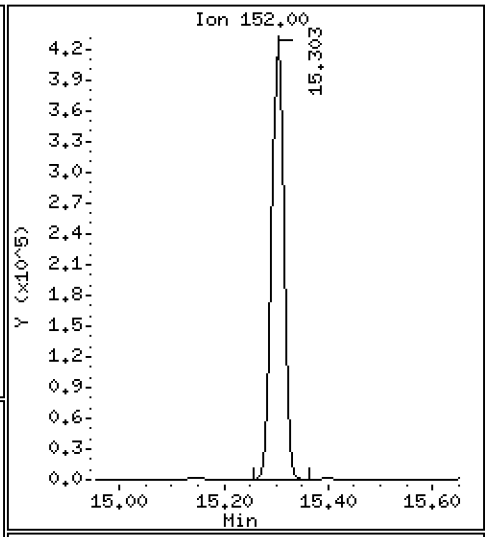
Concentration: 4.776 ug/mL

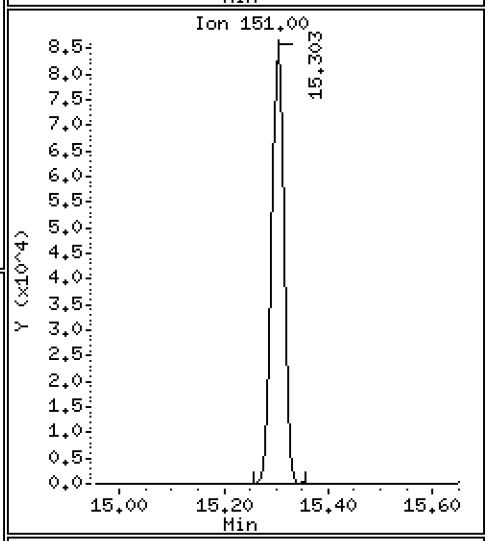


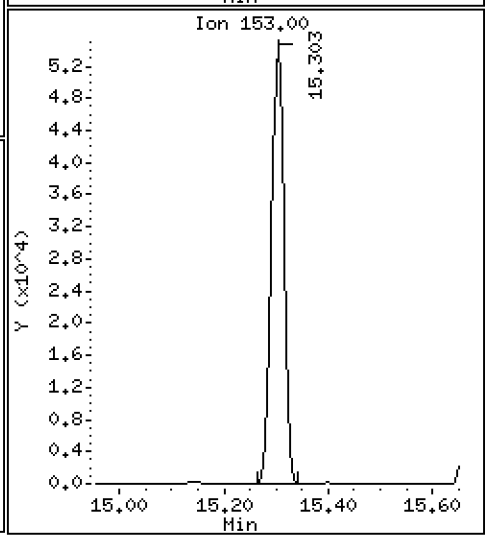












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

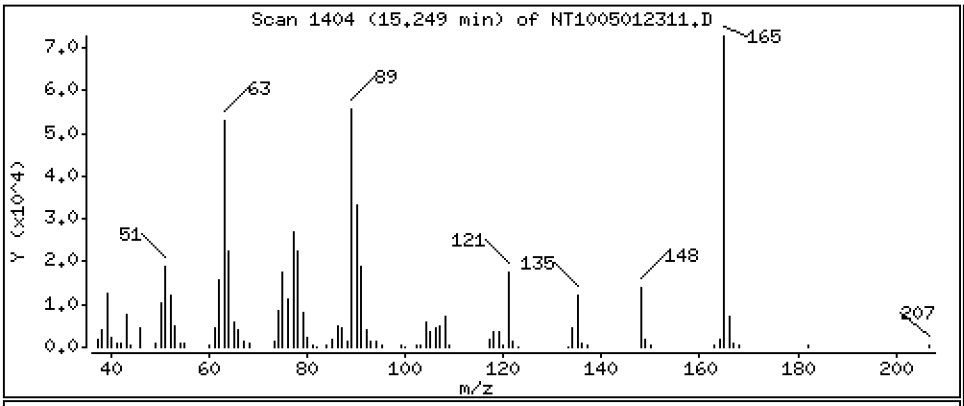
Operator: VTS

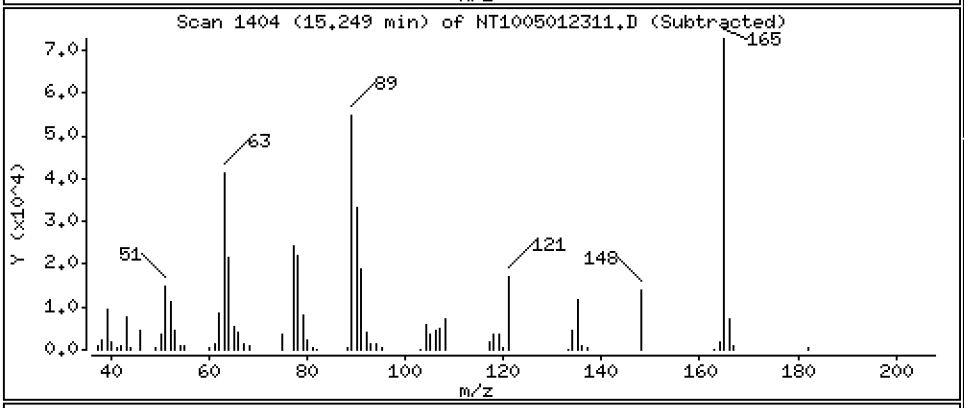
Column phase: ZB-5msi

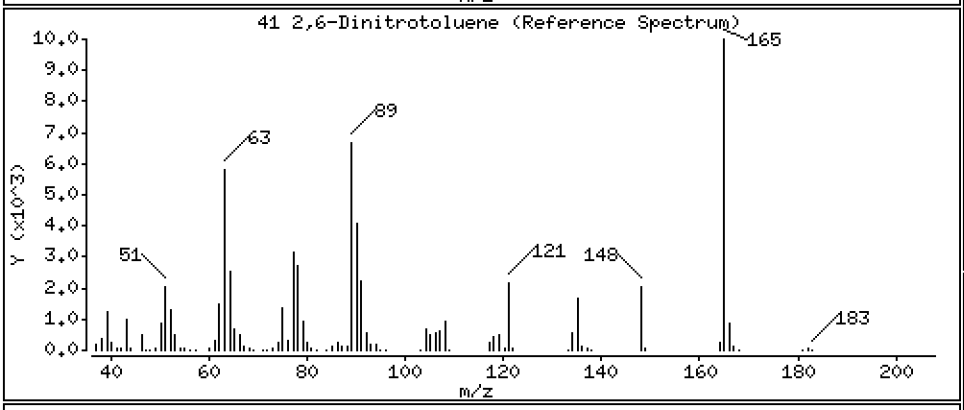
Column diameter: 0.25

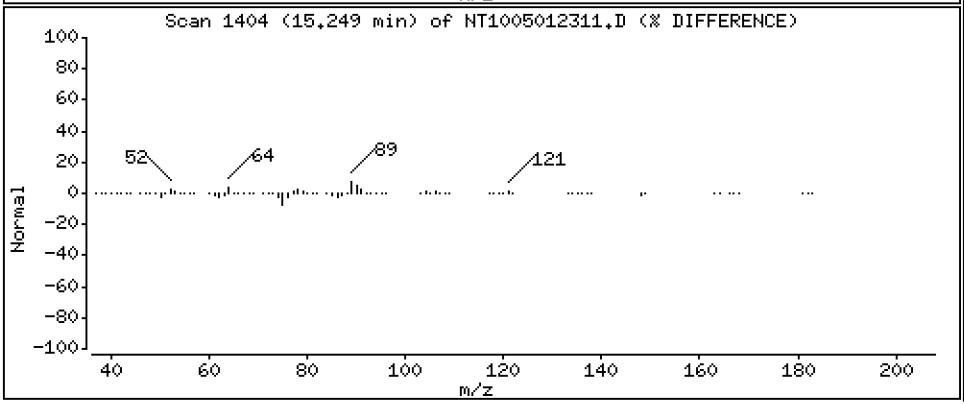
41 2,6-Dinitrotoluene

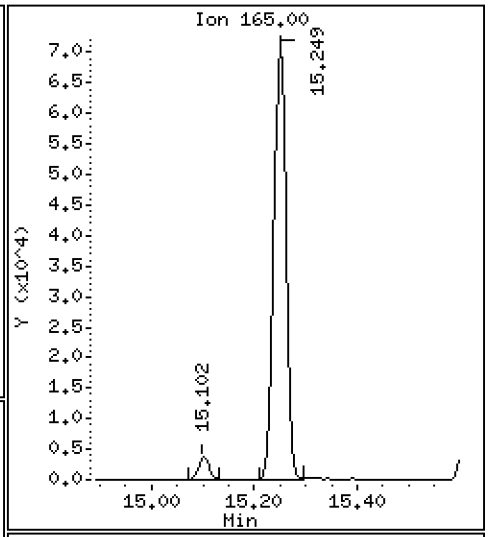
Concentration: 4.876 ug/mL

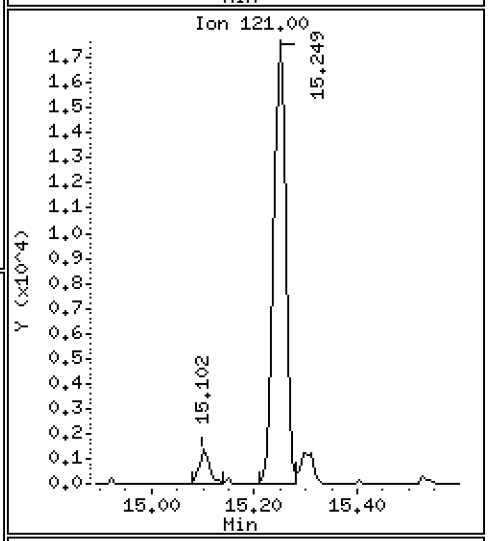


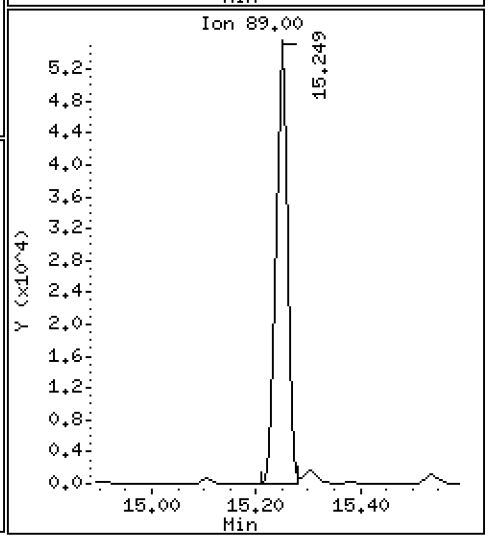












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

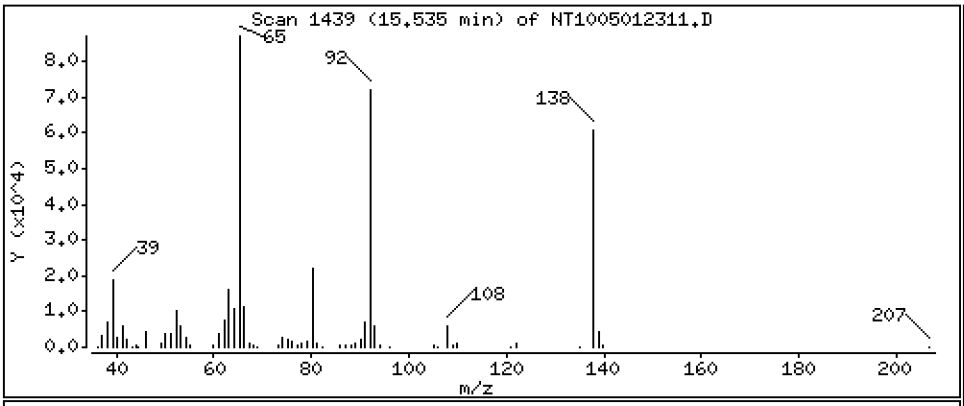
Operator: VTS

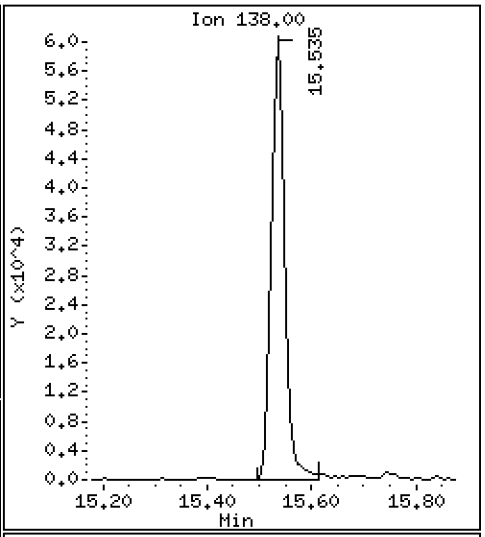
Column phase: ZB-5msi

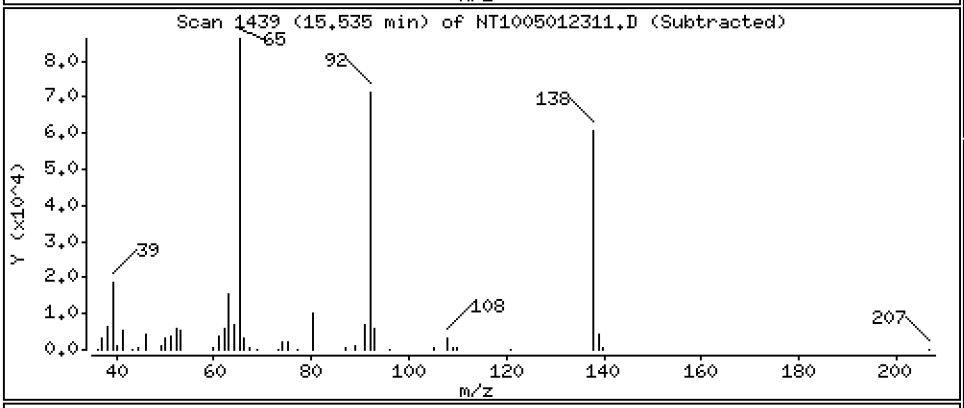
Column diameter: 0.25

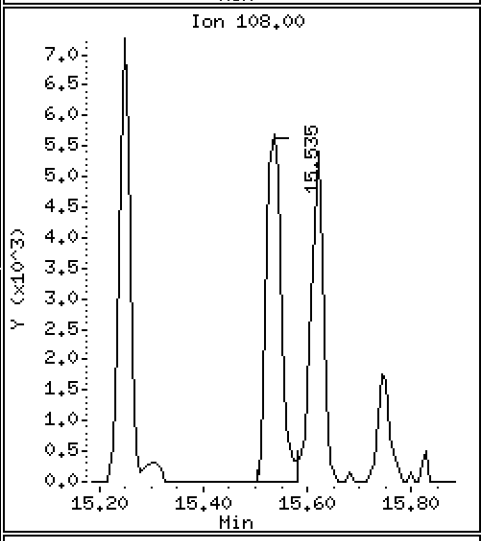
43 3-Nitroaniline

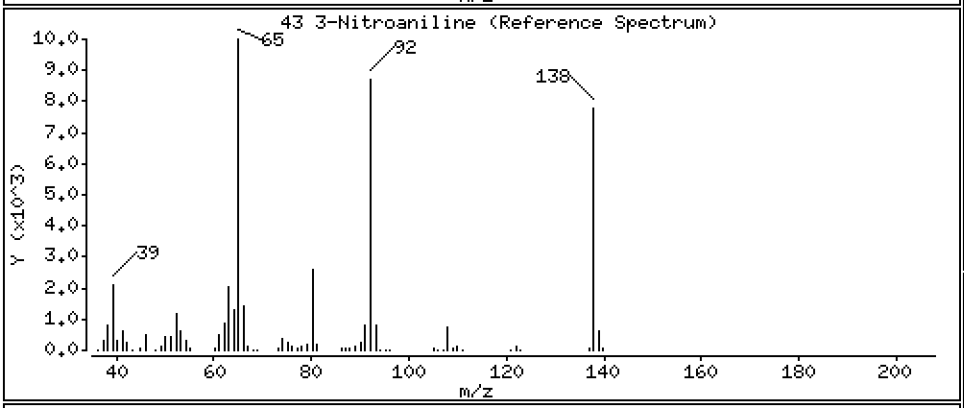
Concentration: 4.776 ug/mL

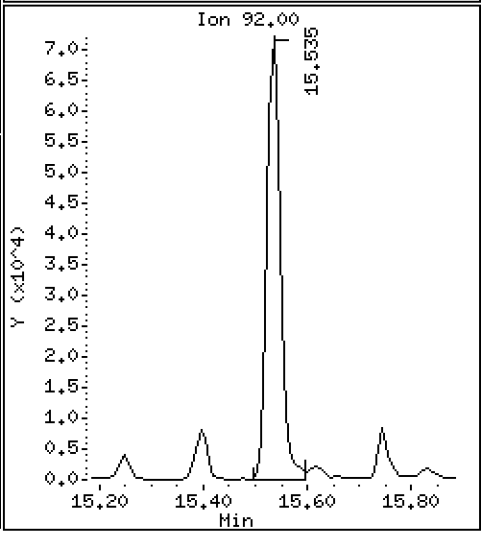


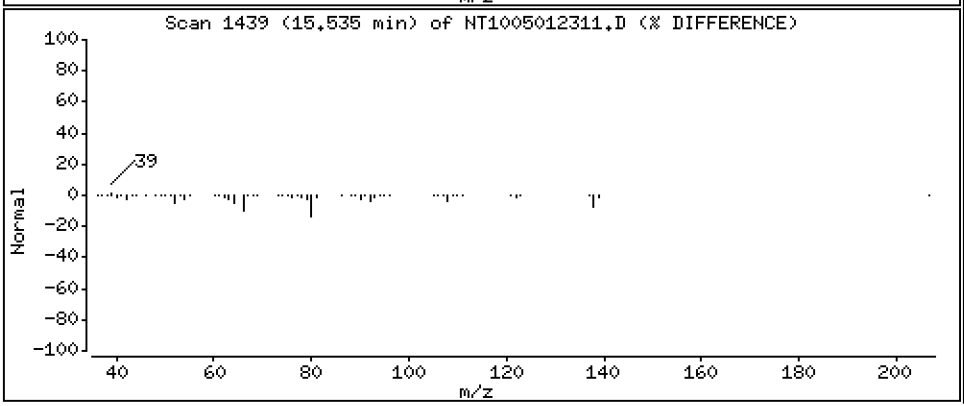












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

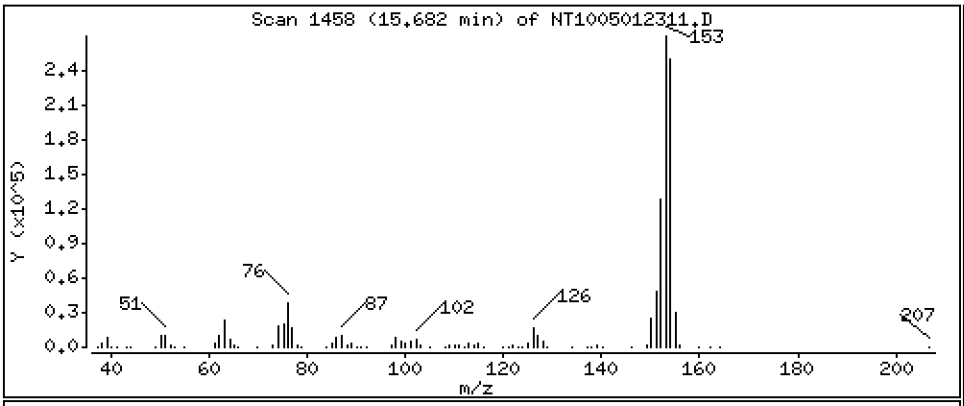
Operator: VTS

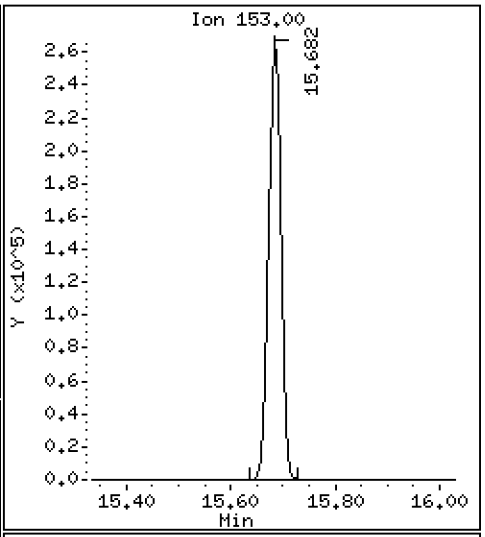
Column phase: ZB-5msi

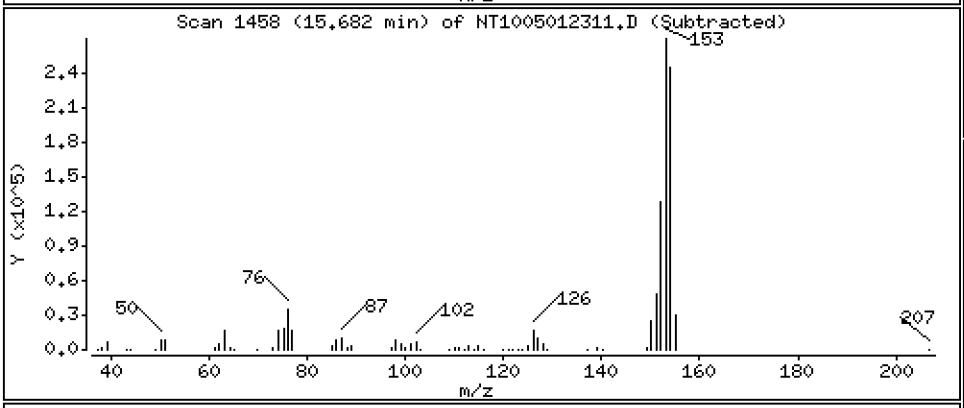
Column diameter: 0.25

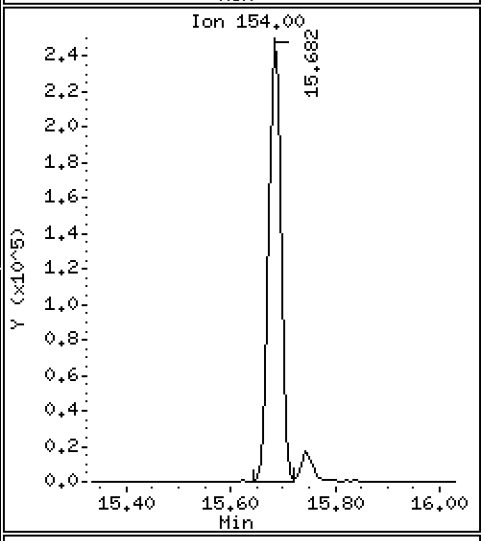
44 Acenaphthene

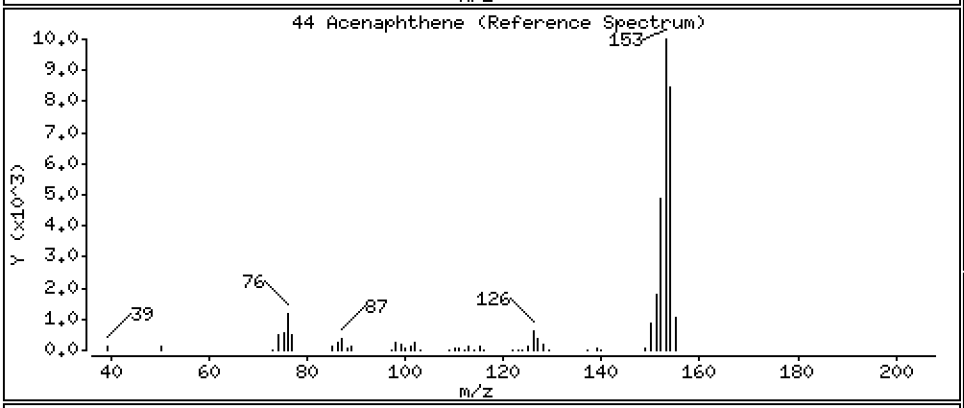
Concentration: 4.716 ug/mL

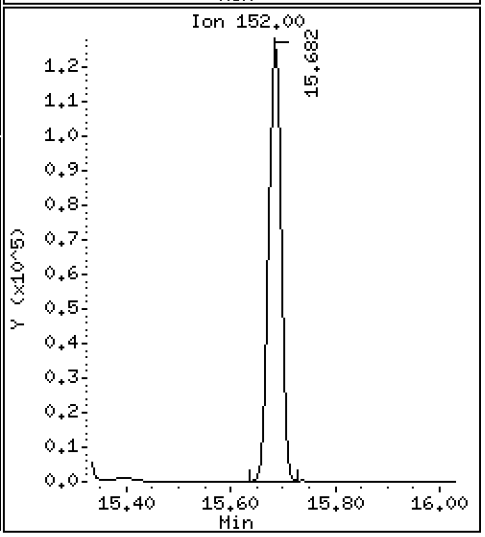


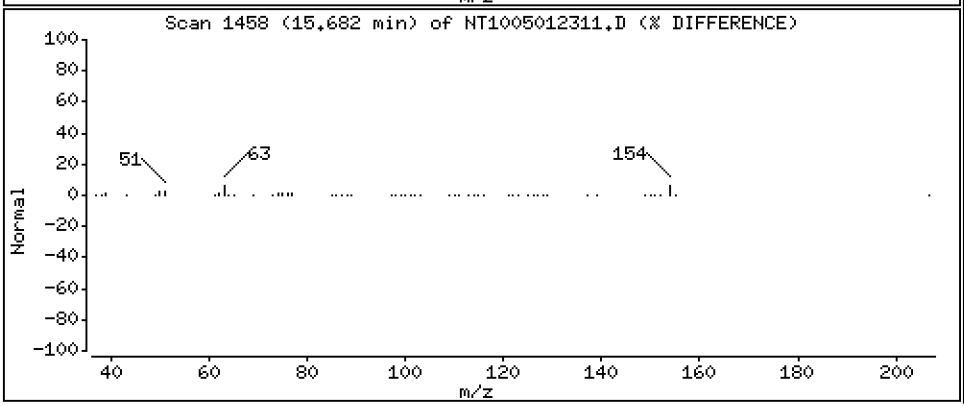












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

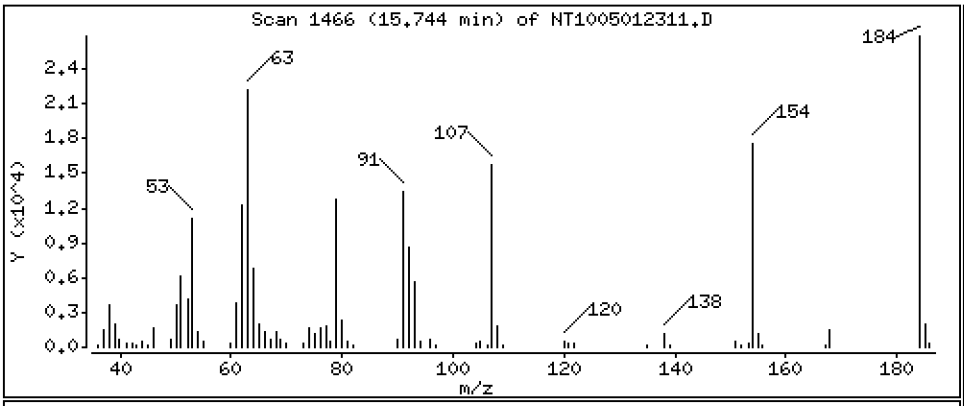
Operator: VTS

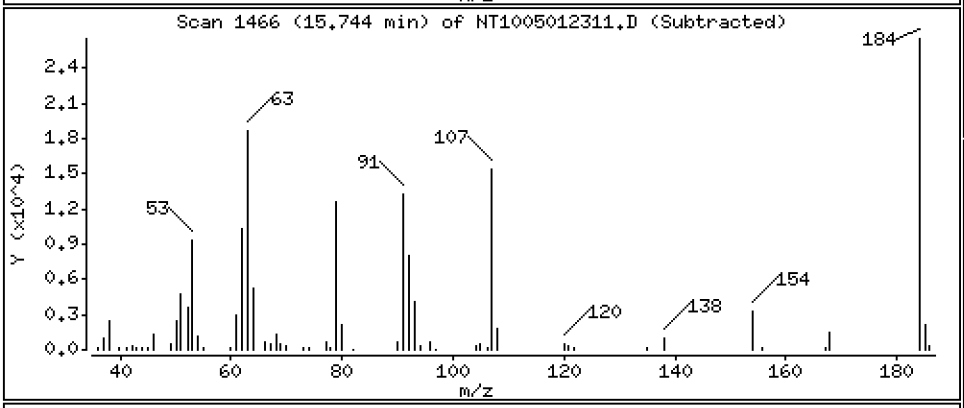
Column phase: ZB-5msi

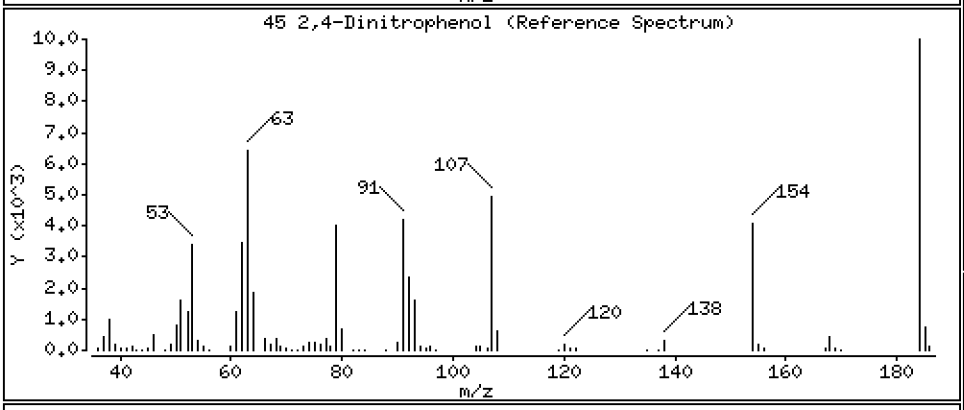
Column diameter: 0.25

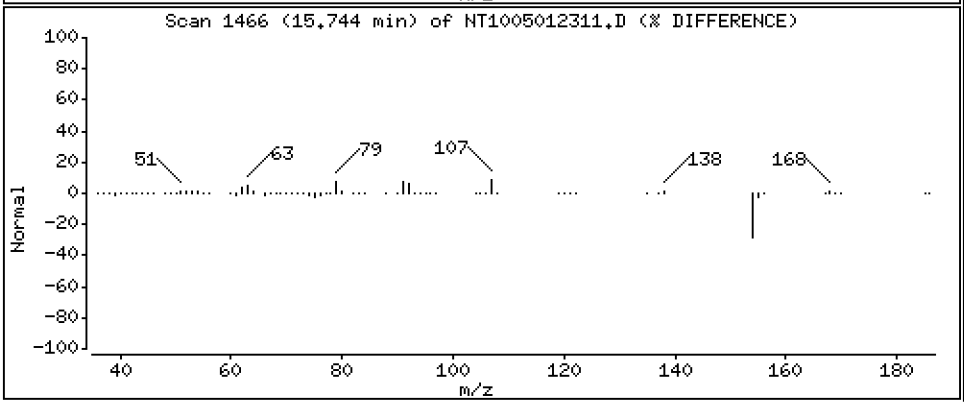
45 2,4-Dinitrophenol

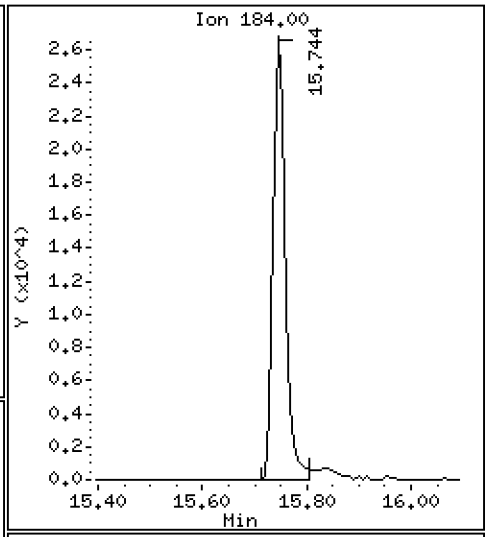
Concentration: 2.376 ug/mL

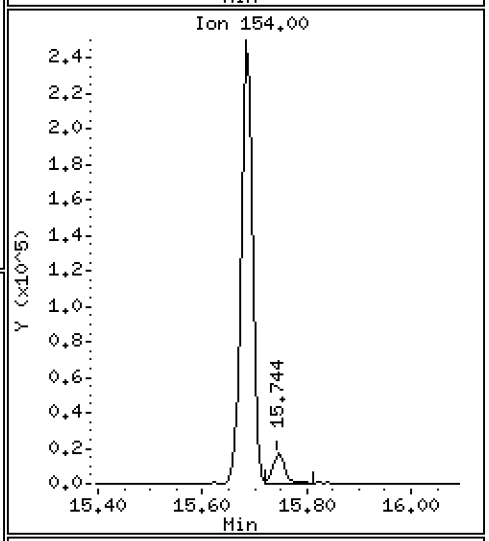


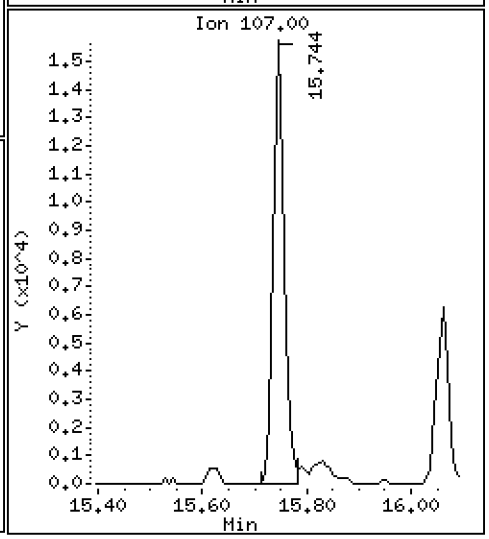












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

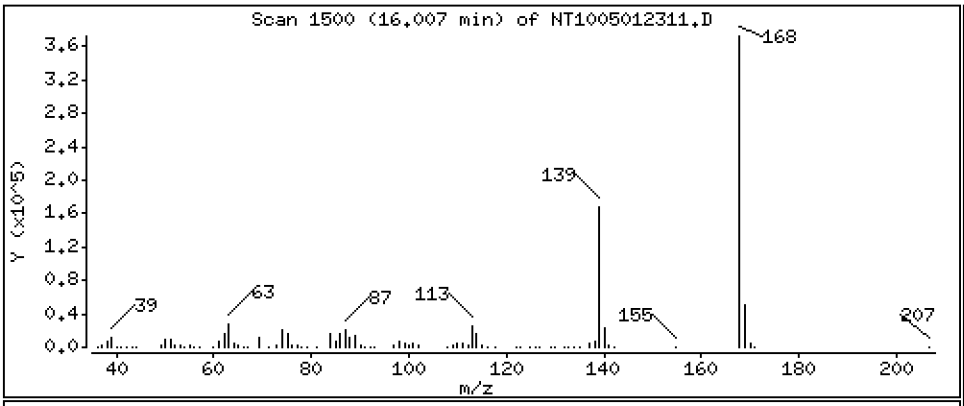
Operator: VTS

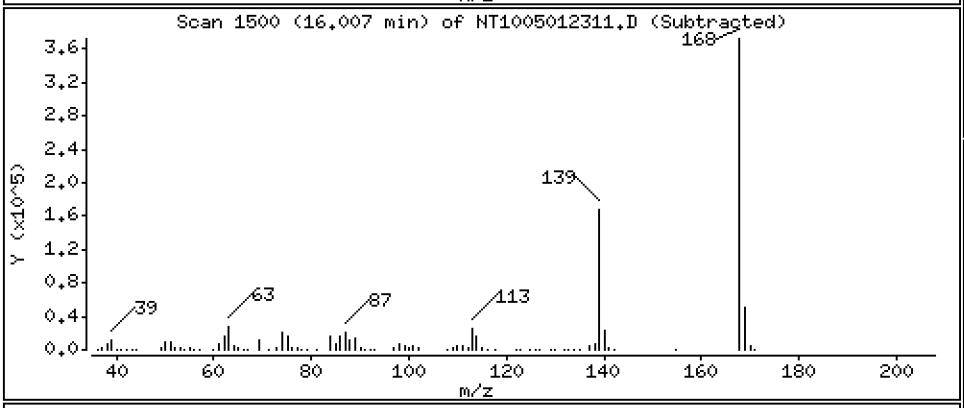
Column phase: ZB-5msi

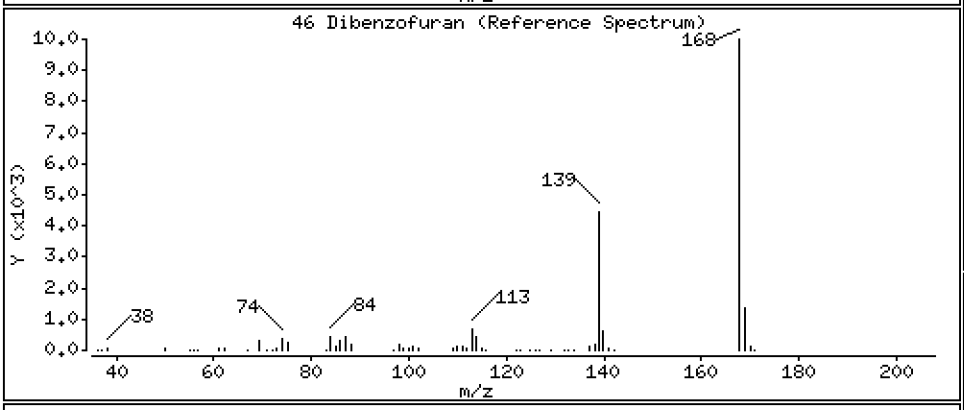
Column diameter: 0.25

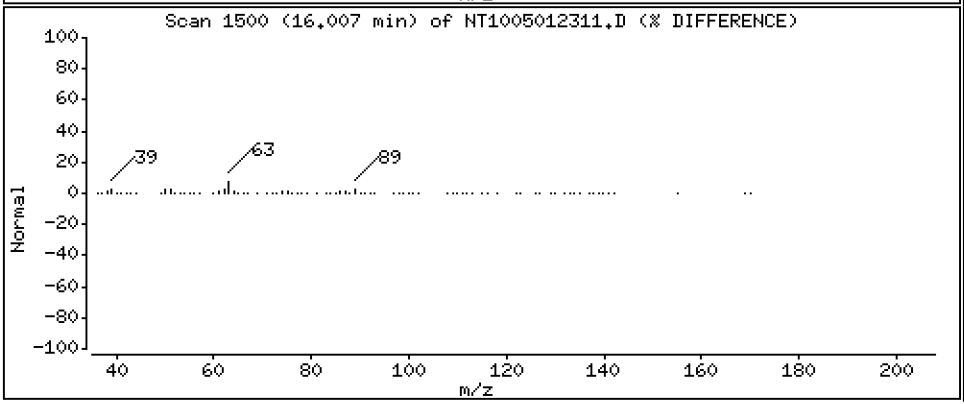
46 Dibenzofuran

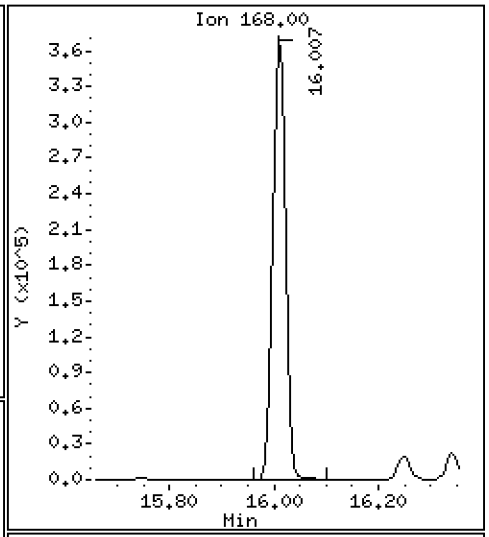
Concentration: 4.645 ug/mL

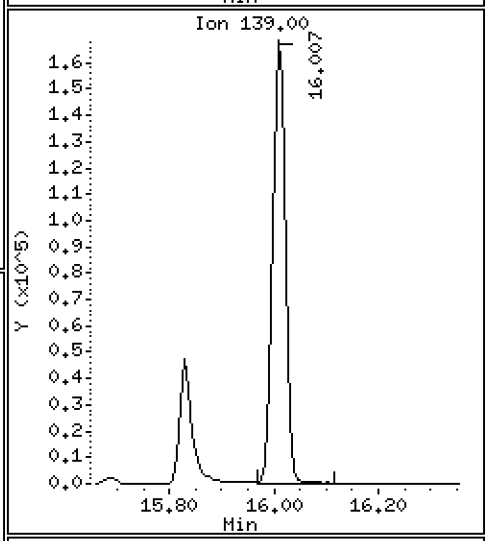


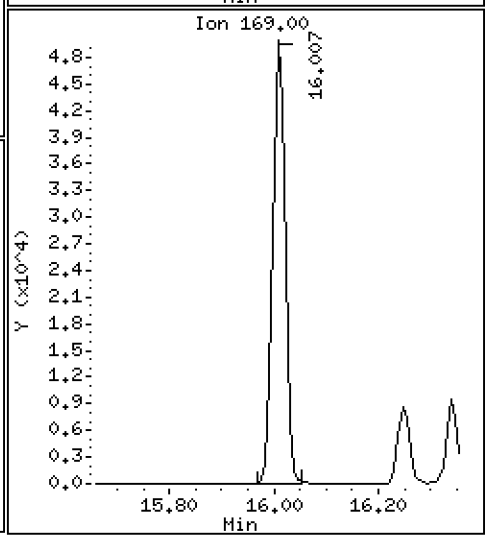












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

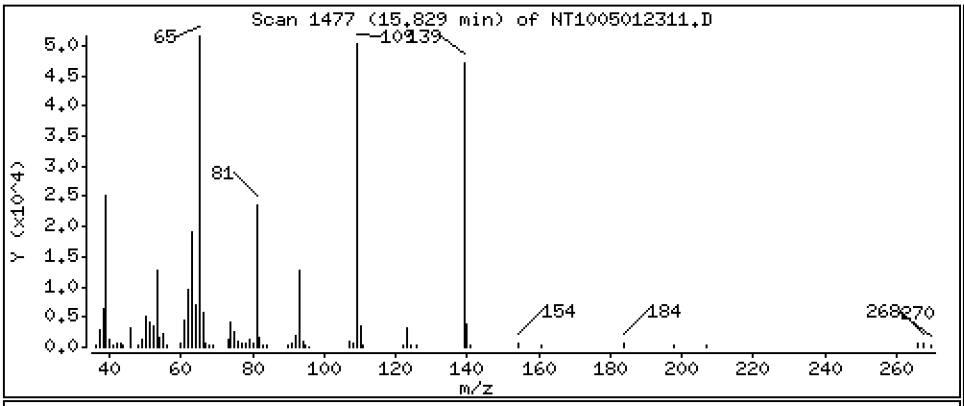
Operator: VTS

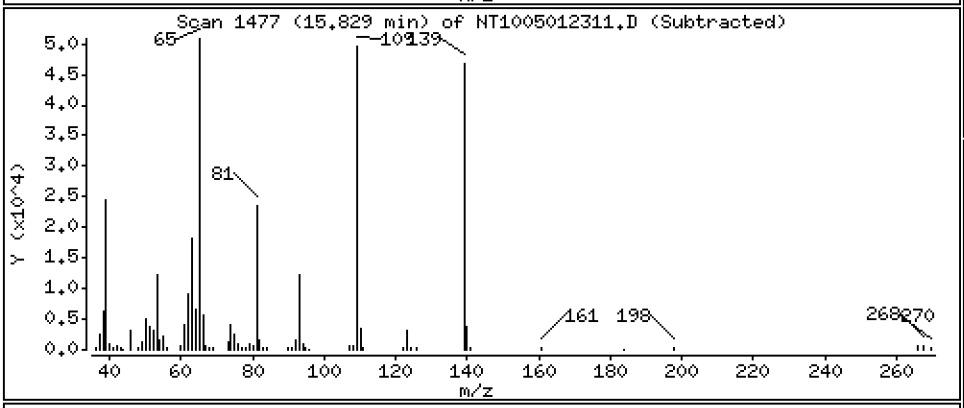
Column phase: ZB-5msi

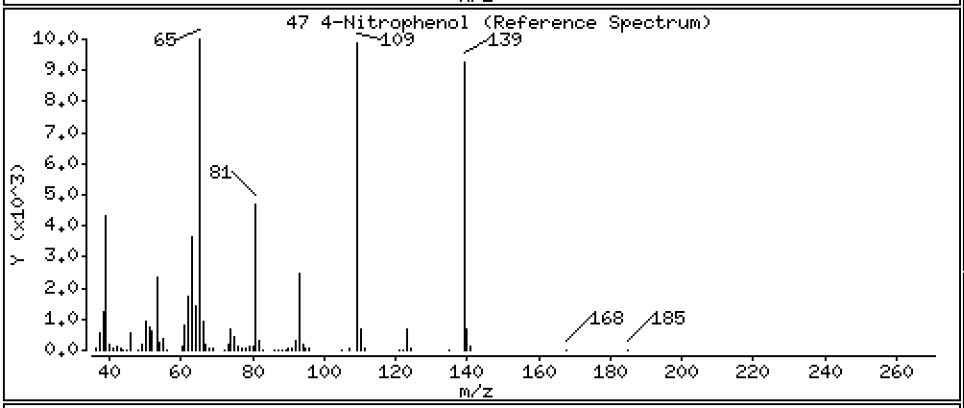
Column diameter: 0.25

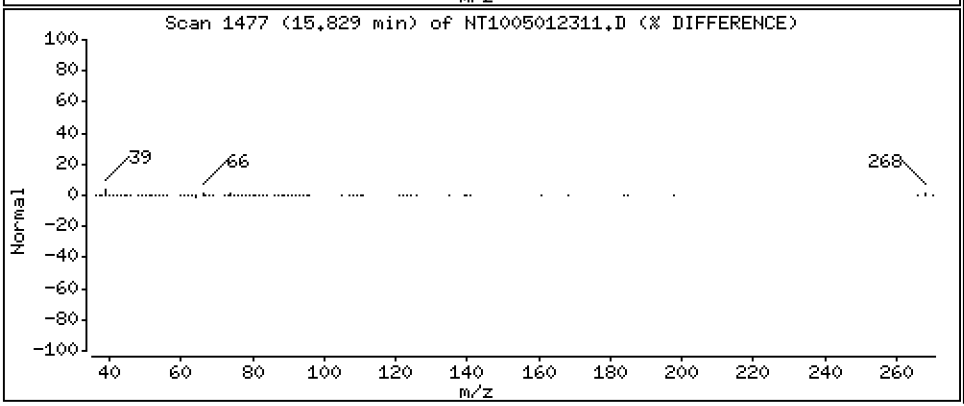
47 4-Nitrophenol

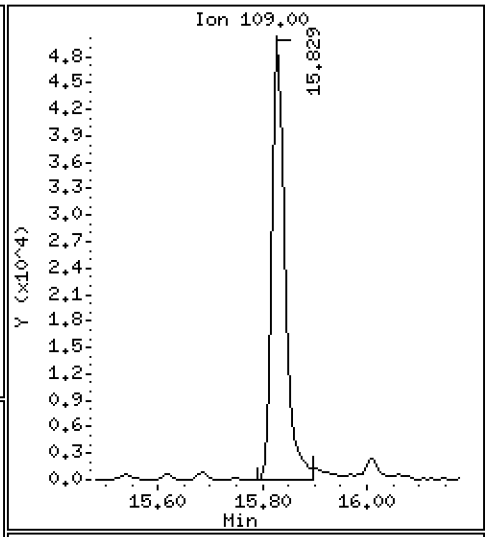
Concentration: 3.992 ug/mL

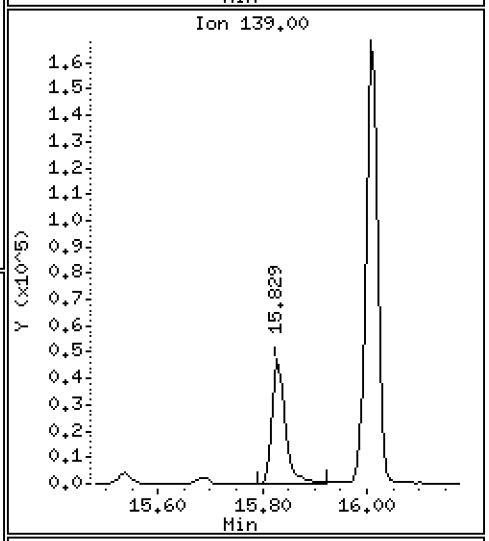


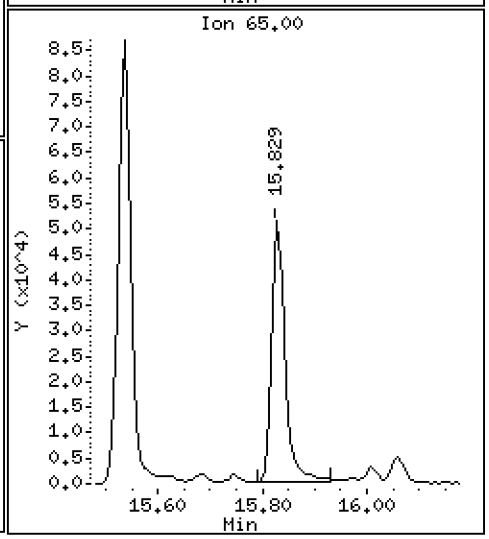












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

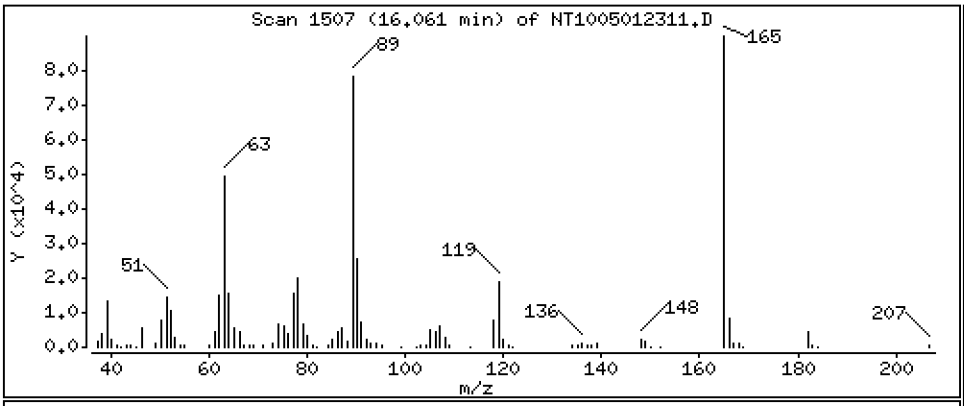
Operator: VTS

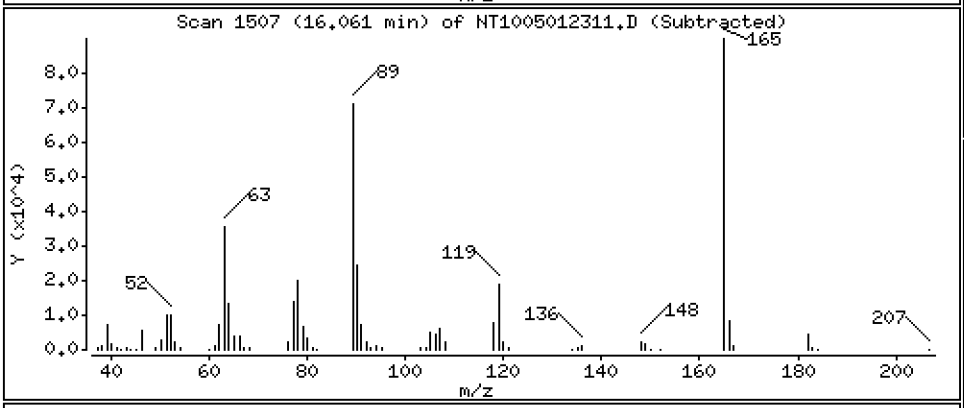
Column phase: ZB-5msi

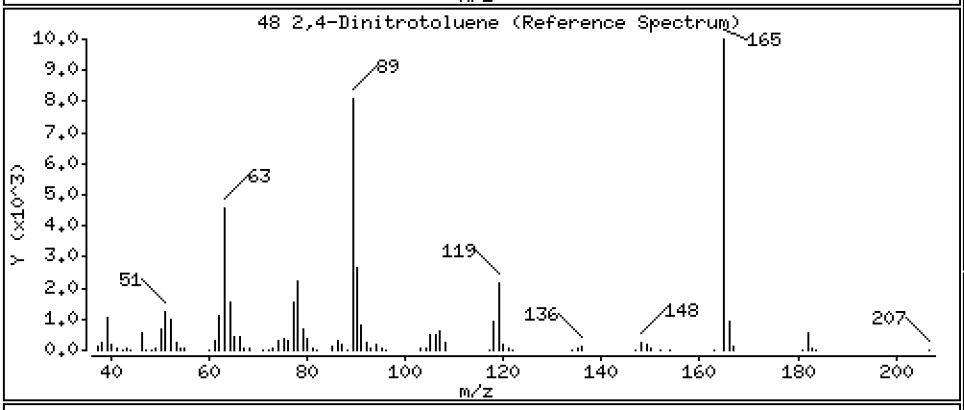
Column diameter: 0.25

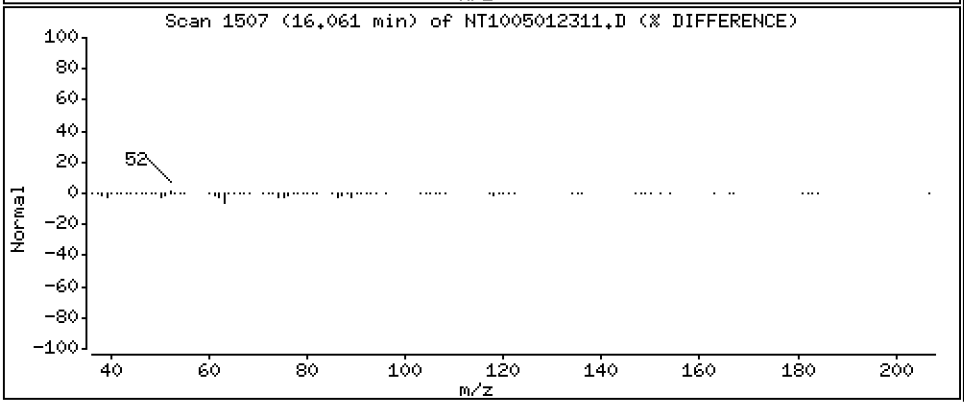
48 2,4-Dinitrotoluene

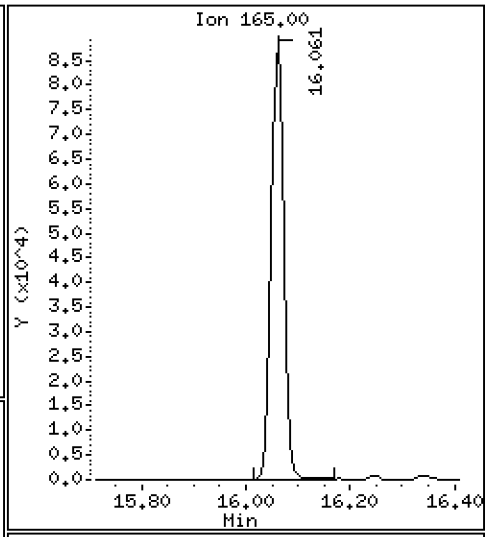
Concentration: 4.381 ug/mL

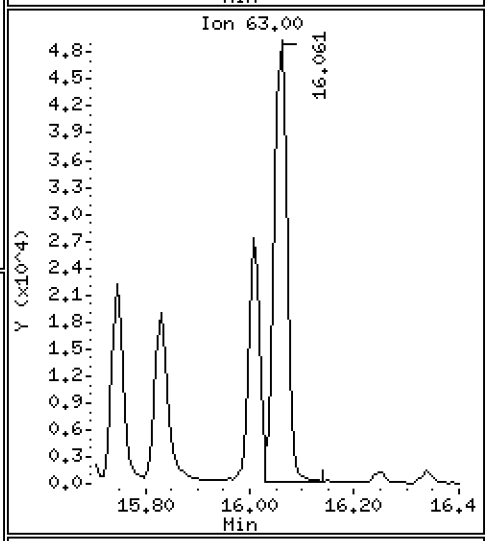


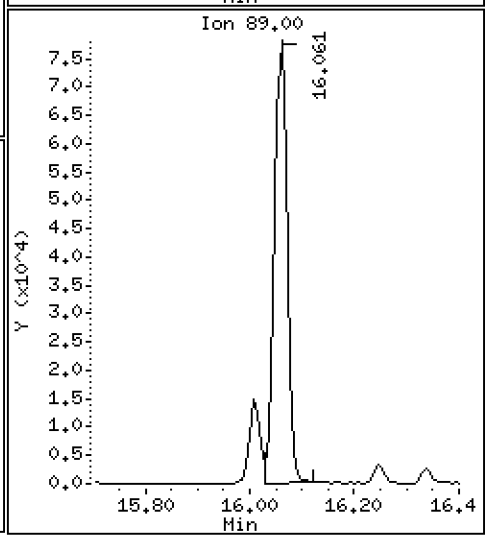












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

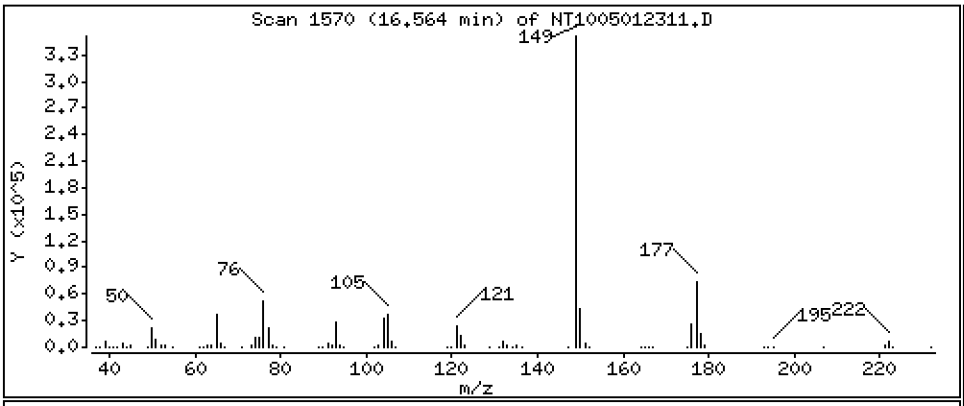
Operator: VTS

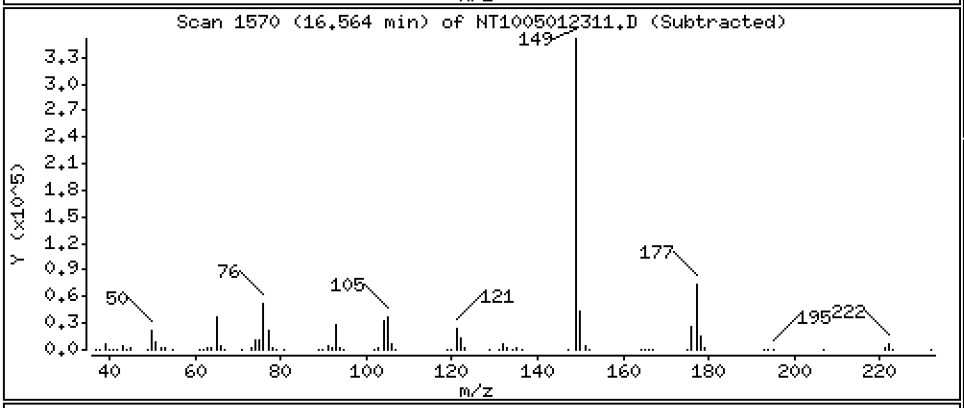
Column phase: ZB-5msi

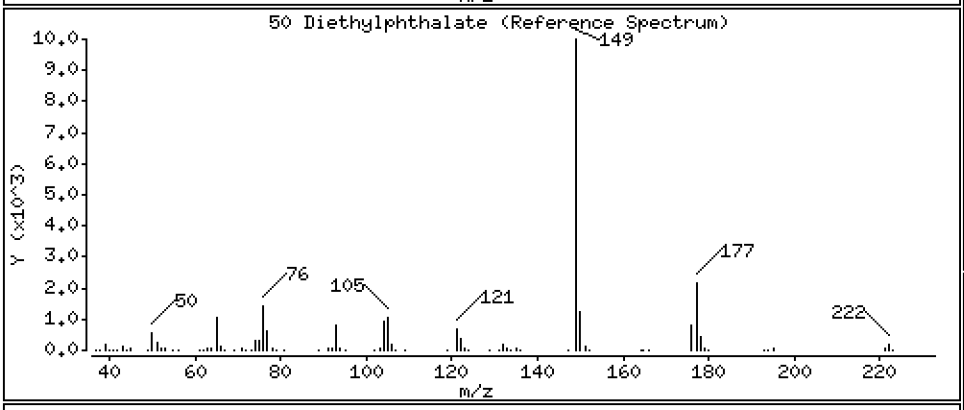
Column diameter: 0.25

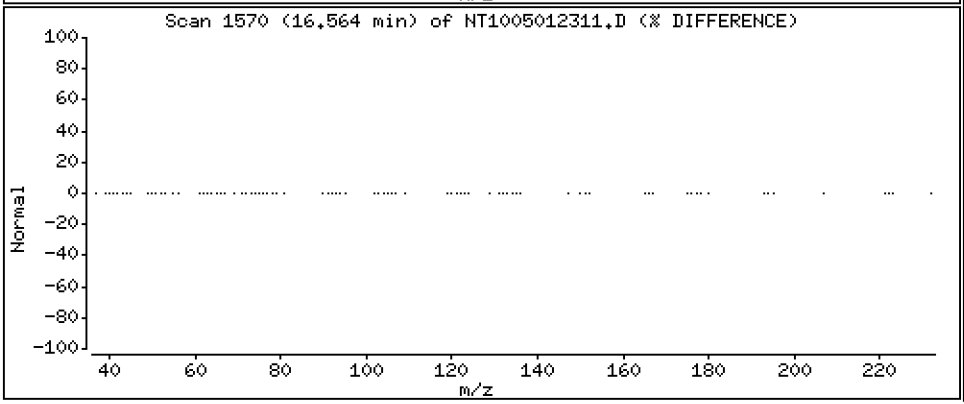
50 Diethylphthalate

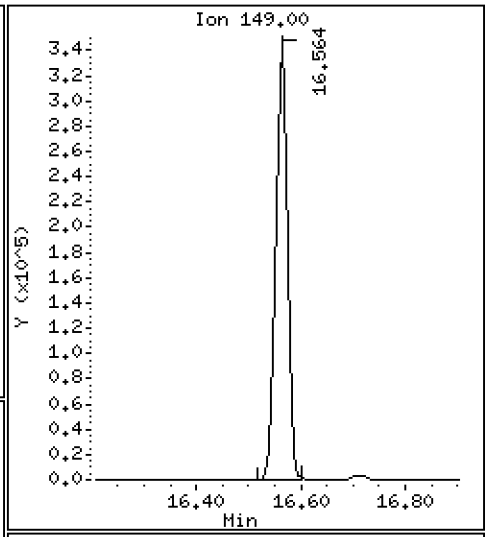
Concentration: 5.055 ug/mL

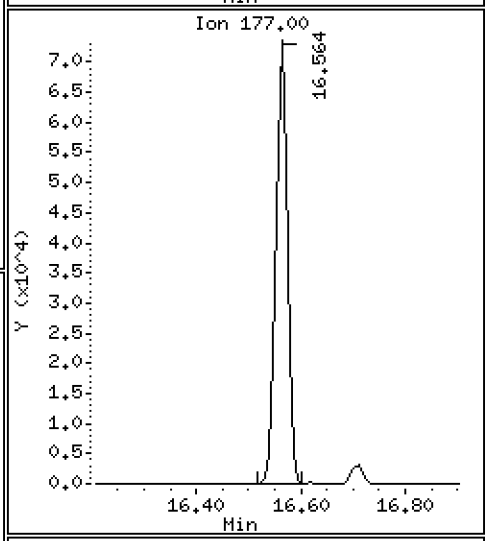


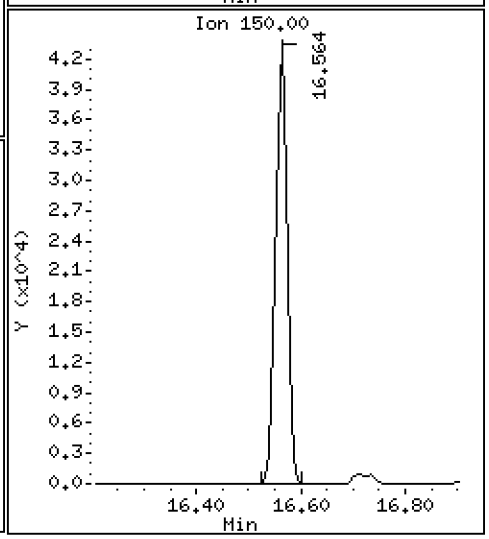












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

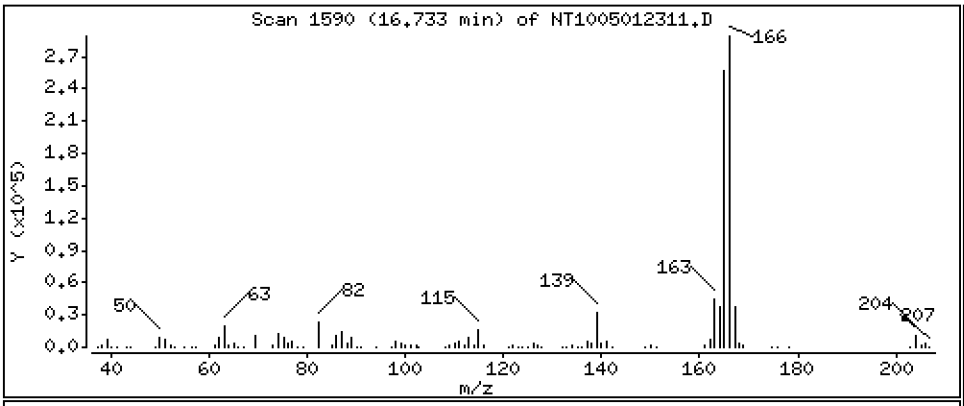
Operator: VTS

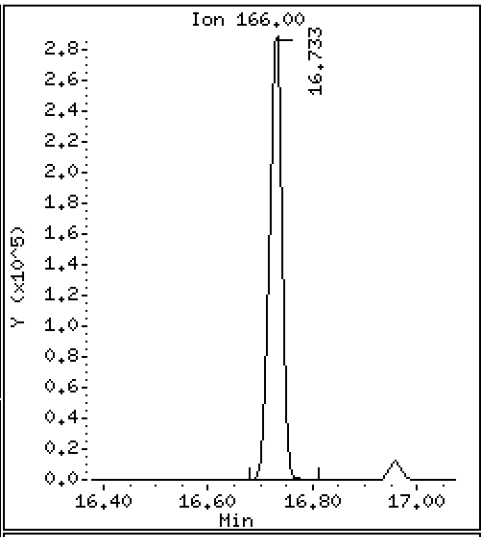
Column phase: ZB-5msi

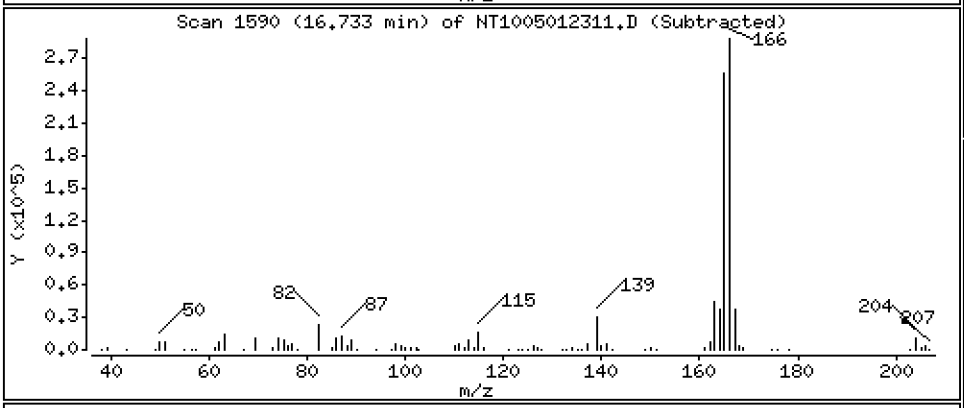
Column diameter: 0.25

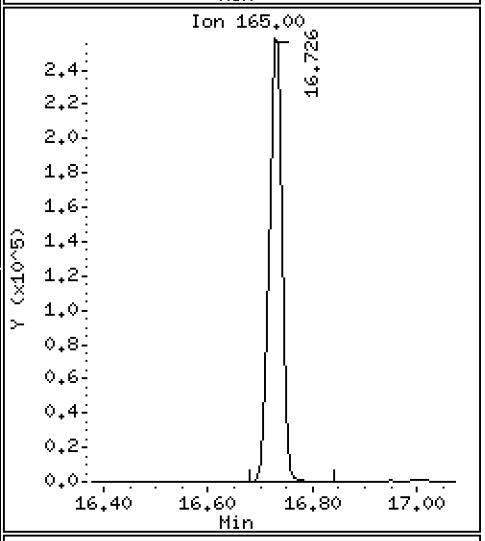
49 Fluorene

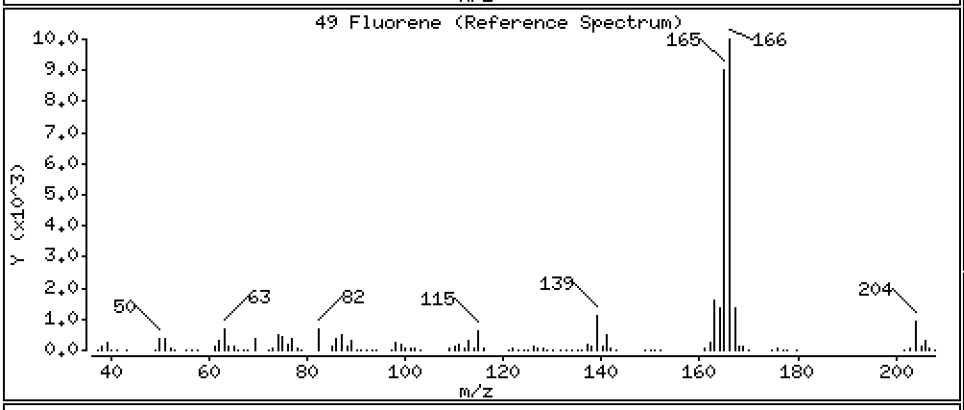
Concentration: 4.559 ug/mL

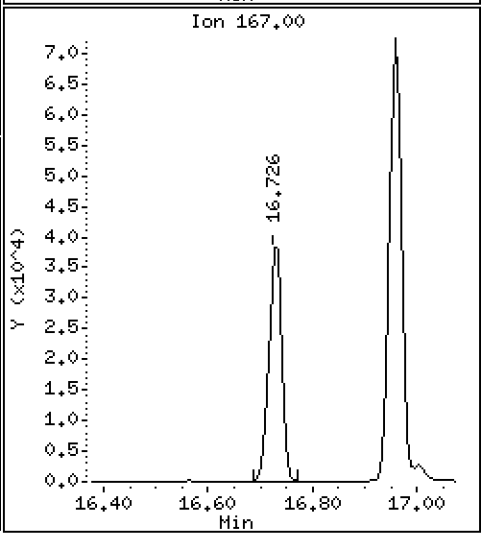


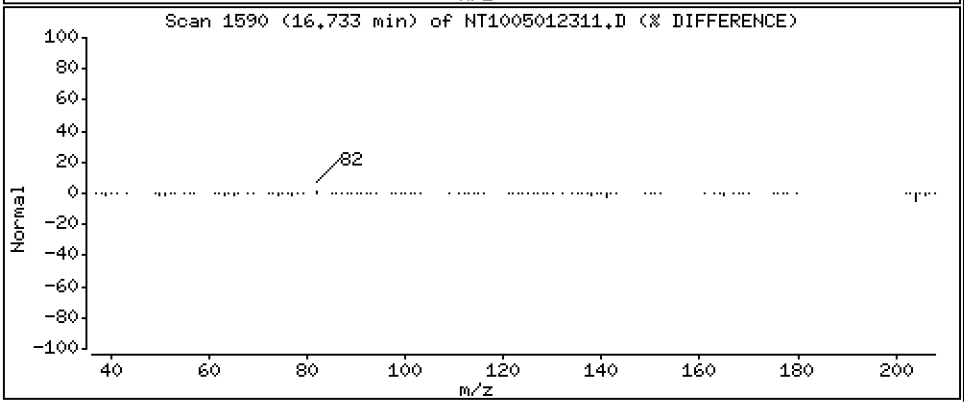












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

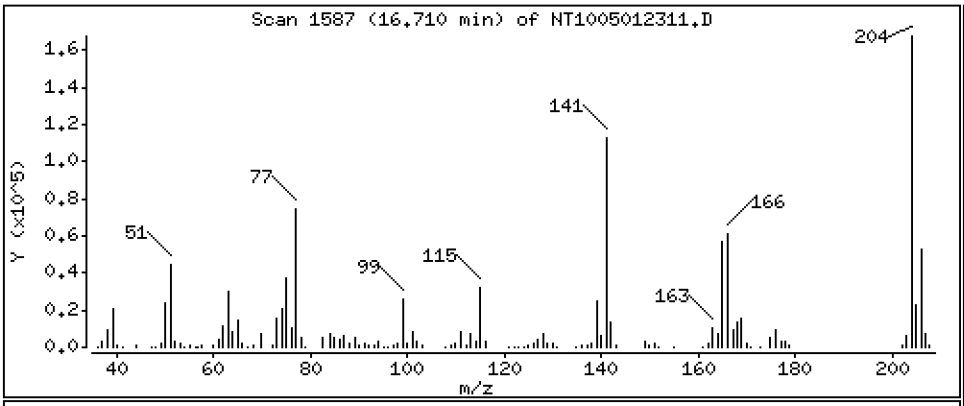
Operator: VTS

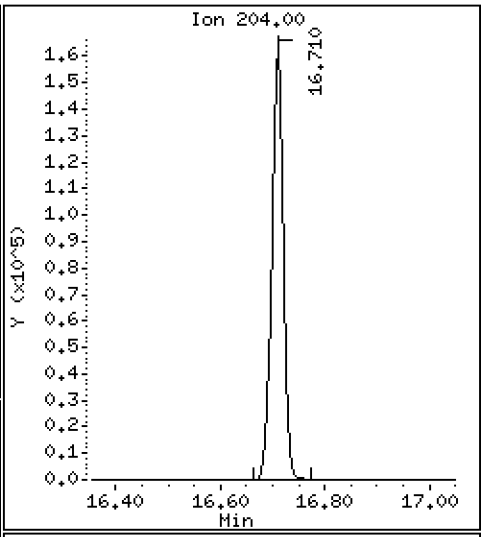
Column phase: ZB-5msi

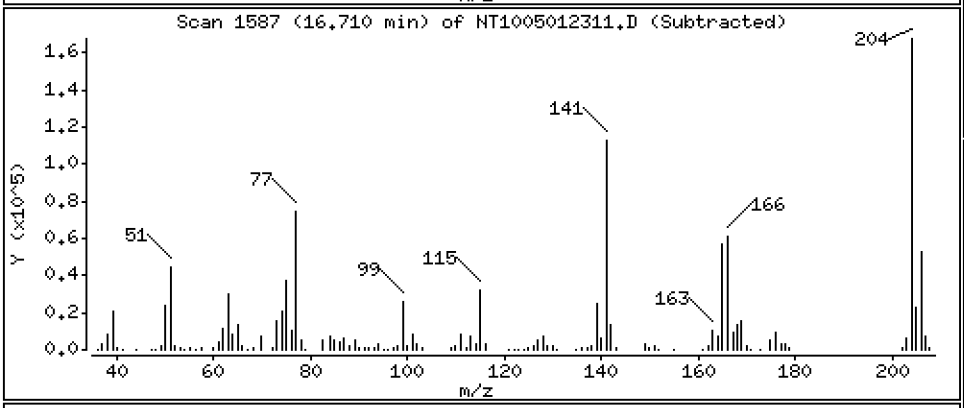
Column diameter: 0.25

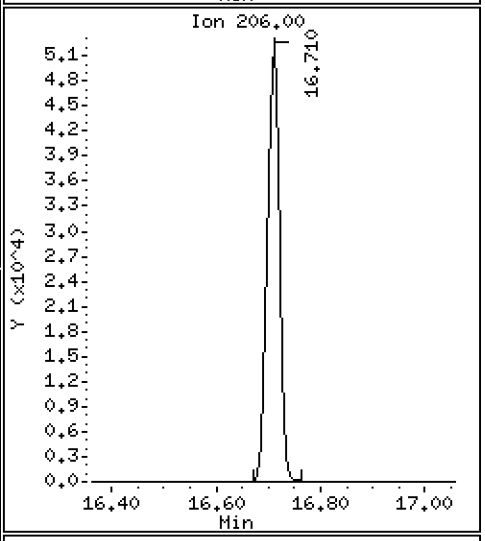
51 4-Chlorophenyl-phenylether

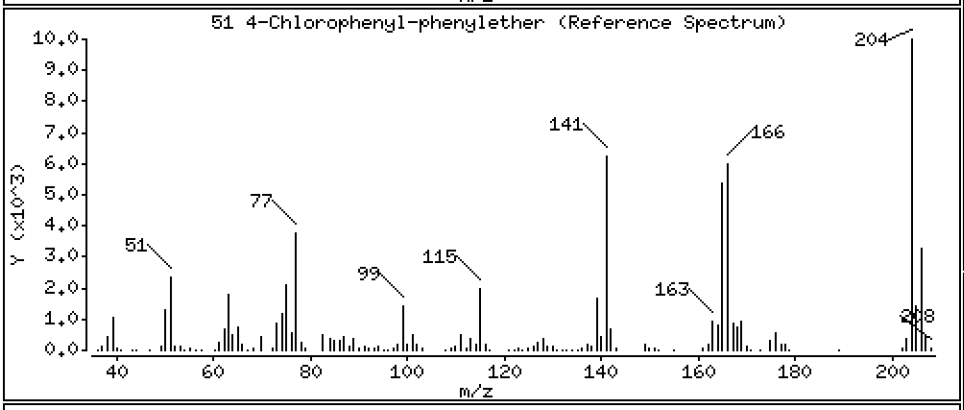
Concentration: 4.797 ug/mL

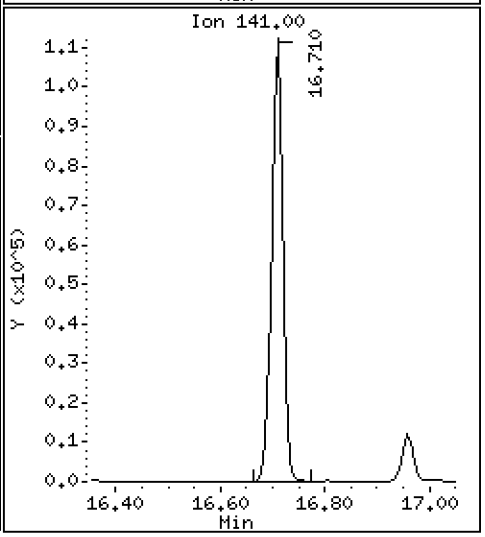


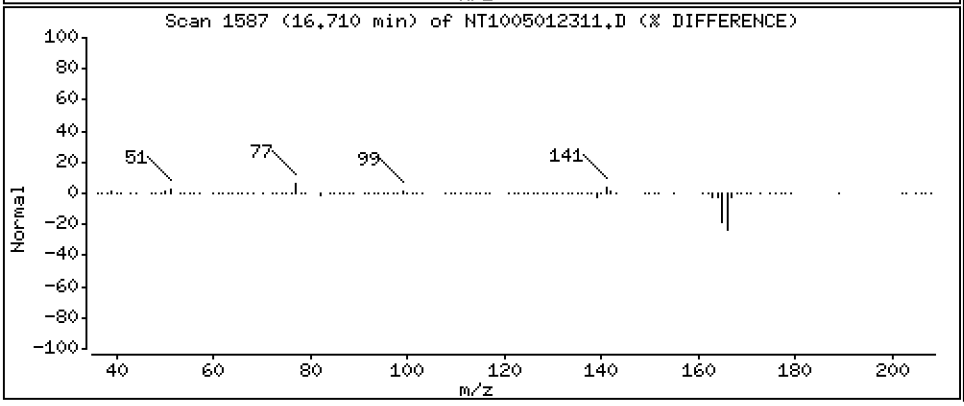












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

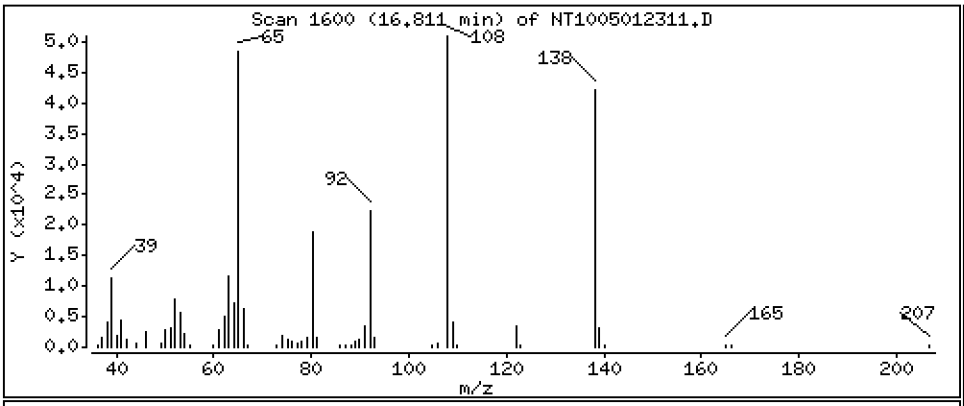
Operator: VTS

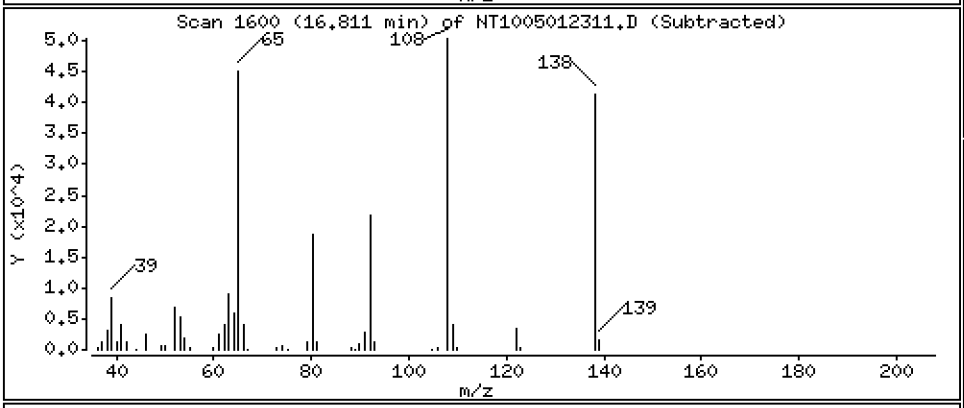
Column phase: ZB-5msi

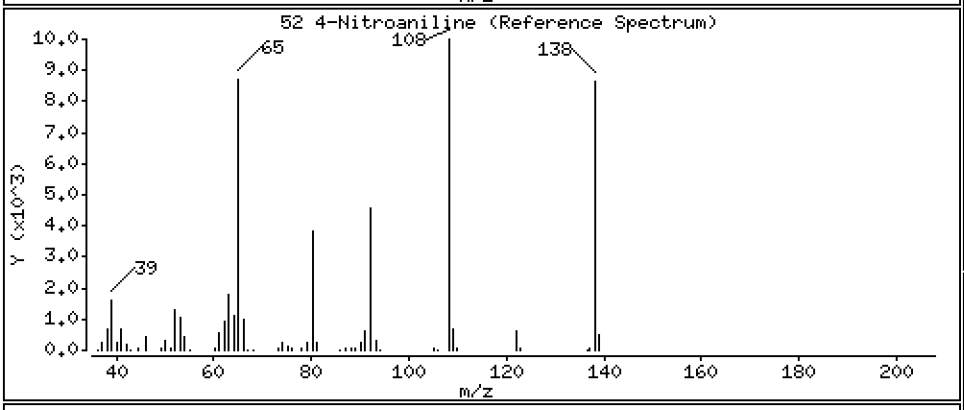
Column diameter: 0.25

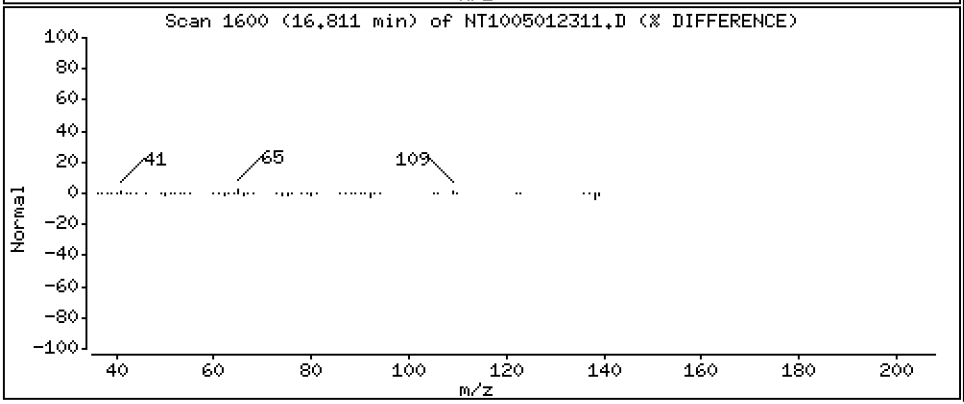
52 4-Nitroaniline

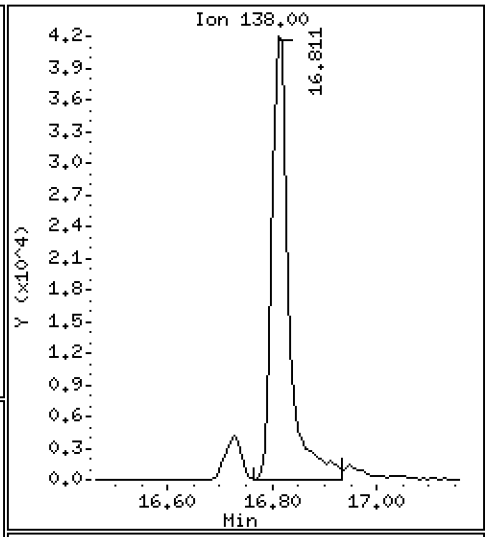
Concentration: 4.293 ug/mL

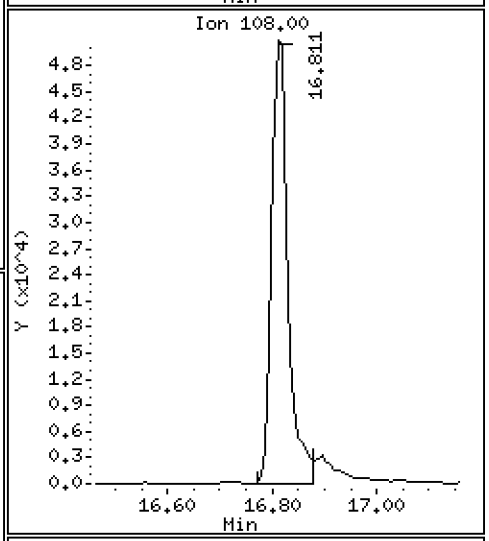


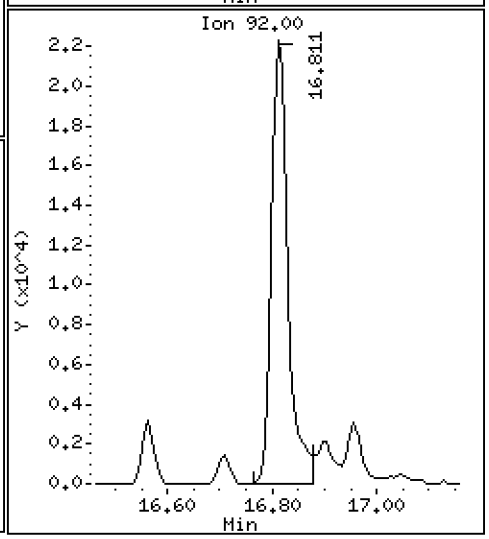












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

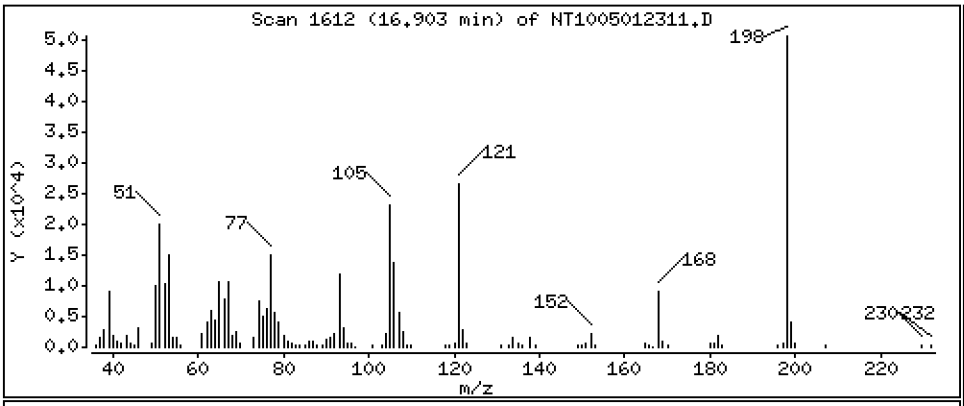
Operator: VTS

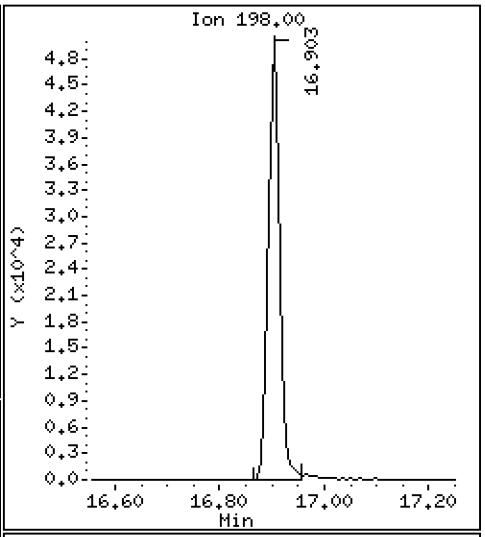
Column phase: ZB-5msi

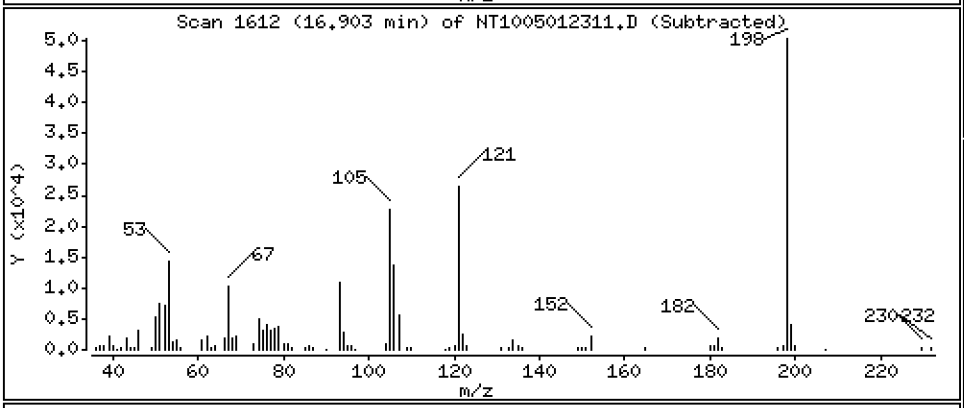
Column diameter: 0.25

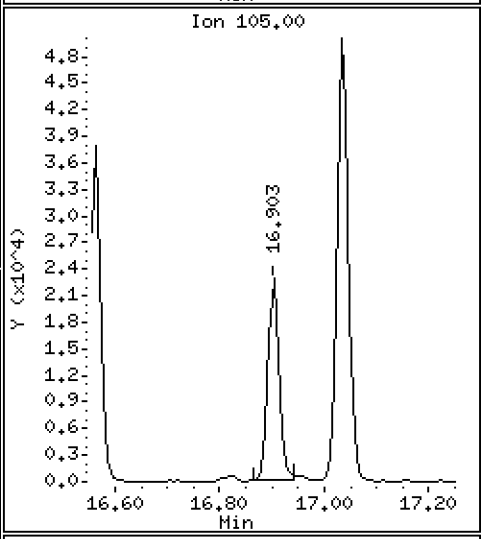
53 4,6-Dinitro-2-methylphenol

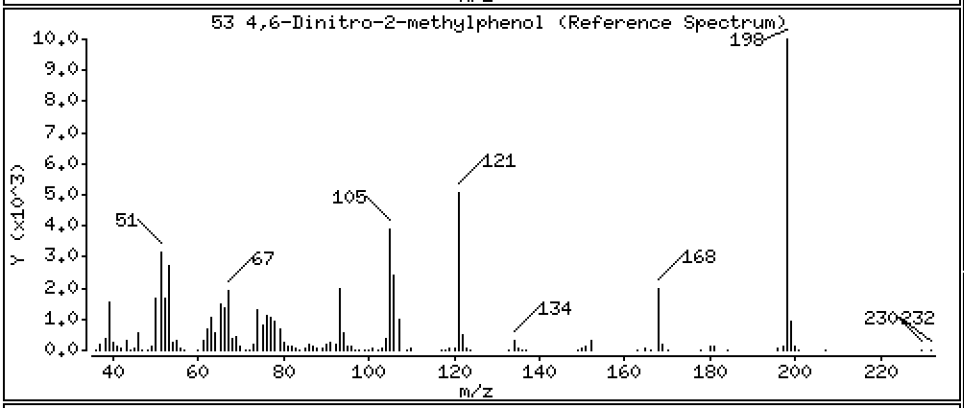
Concentration: 3.760 ug/mL

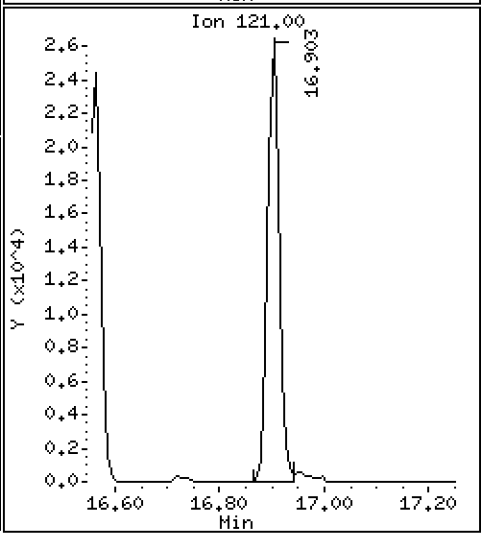


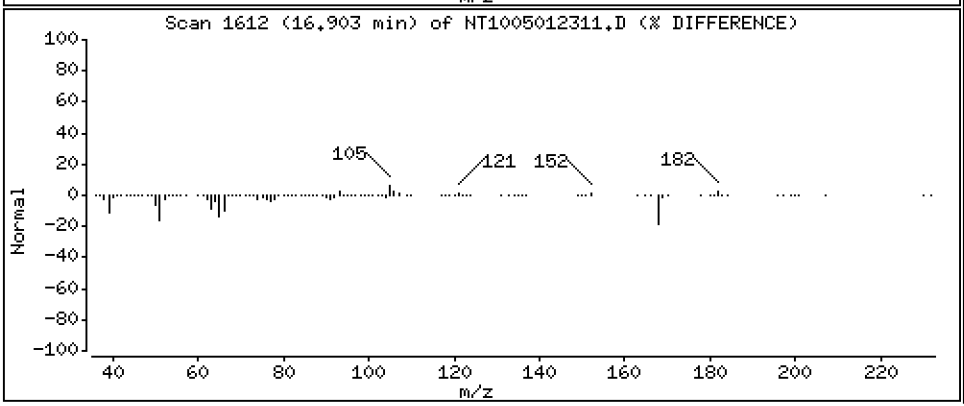












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

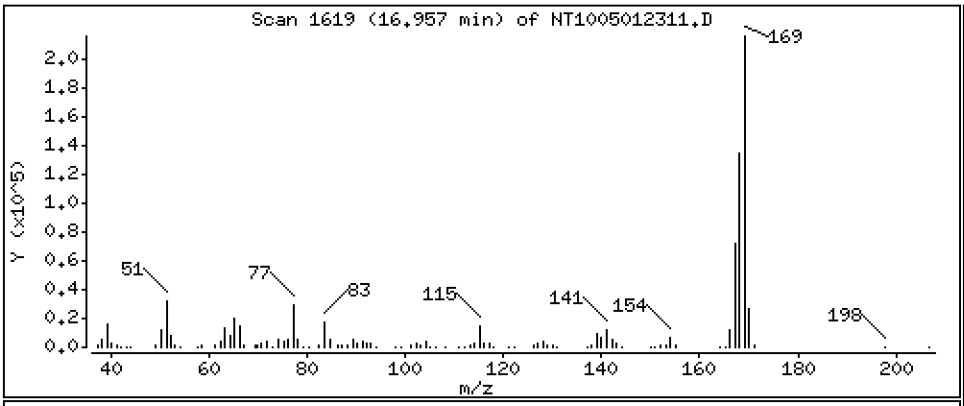
Operator: VTS

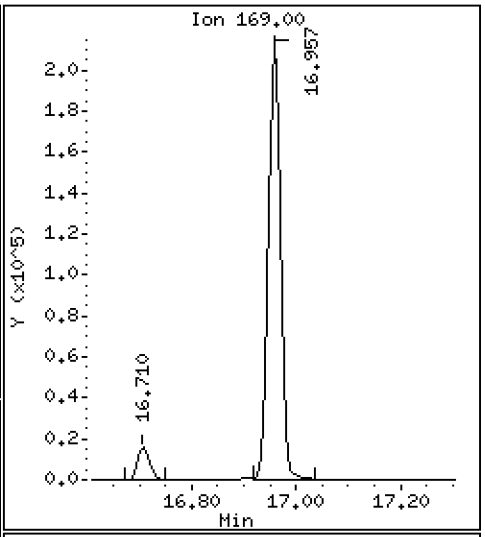
Column phase: ZB-5msi

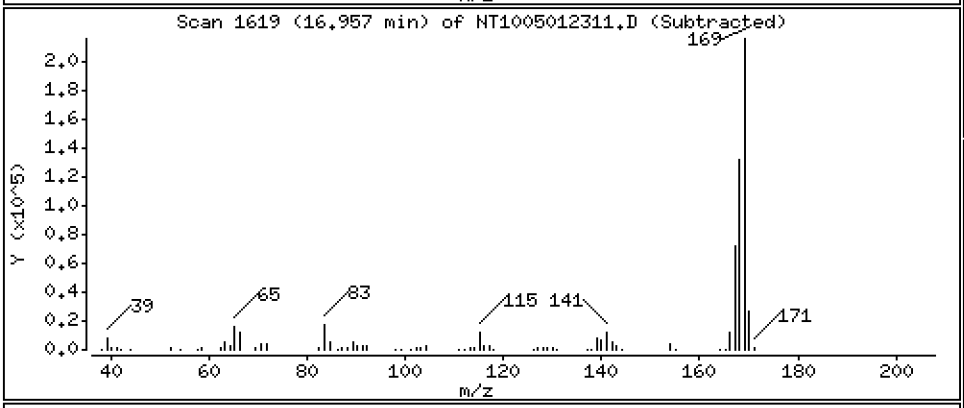
Column diameter: 0.25

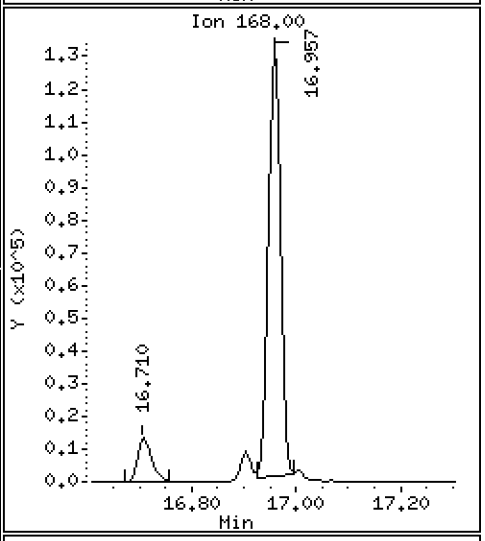
54 N-Nitrosodiphenylamine

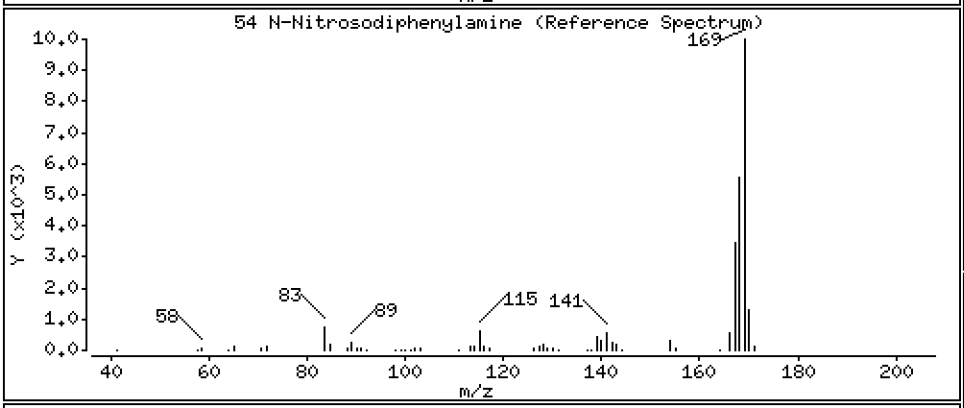
Concentration: 5.125 ug/mL

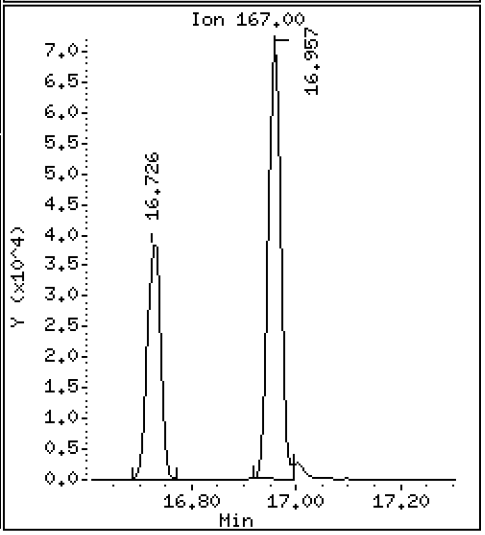


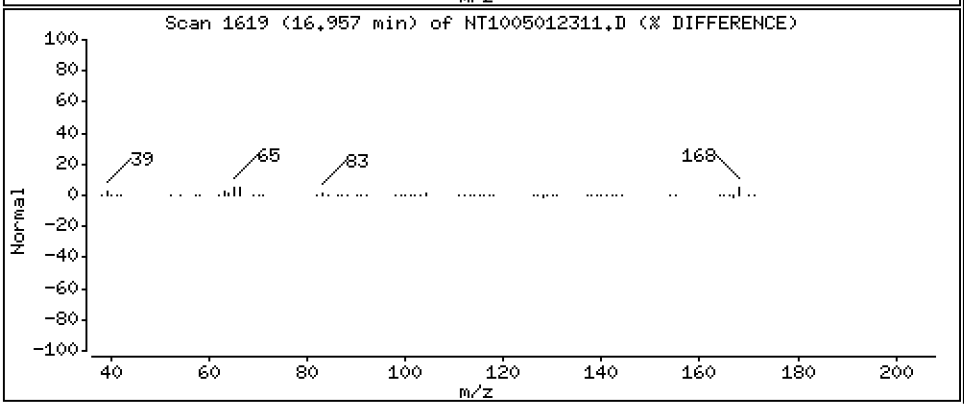












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

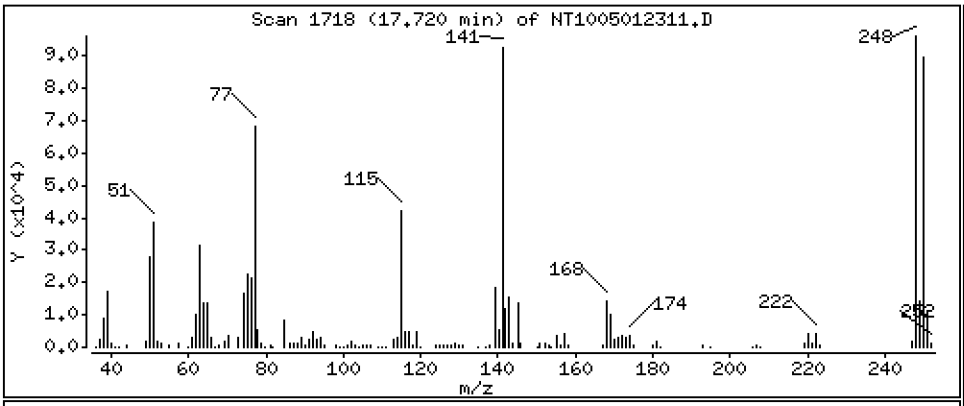
Operator: VTS

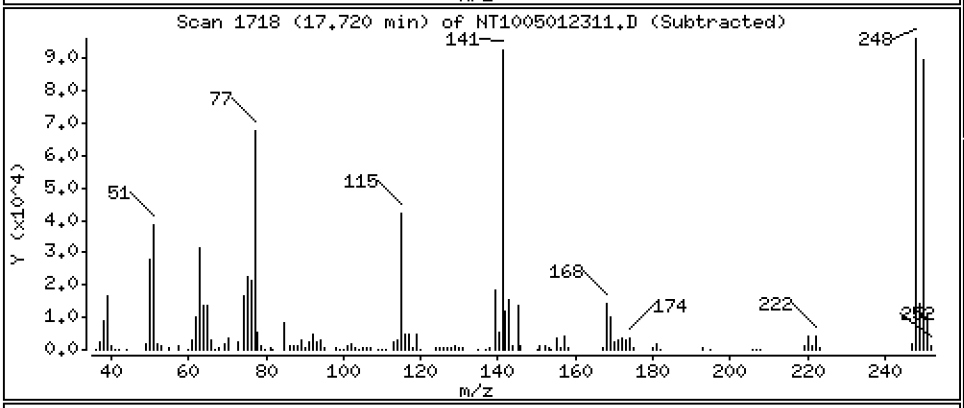
Column phase: ZB-5msi

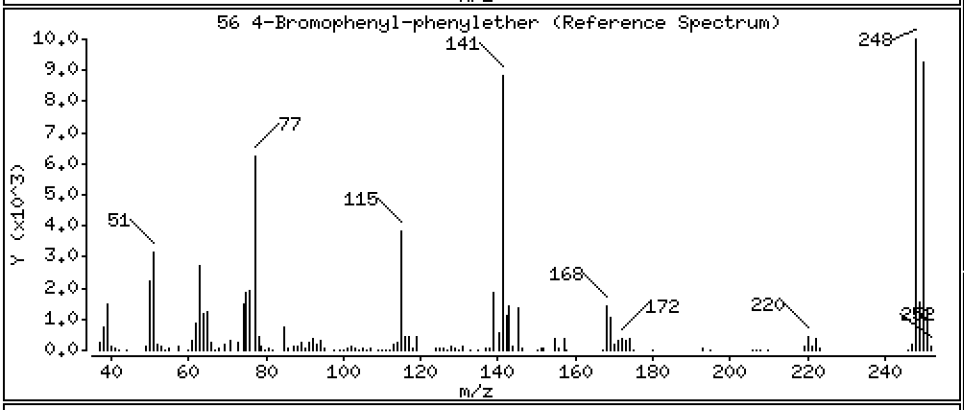
Column diameter: 0.25

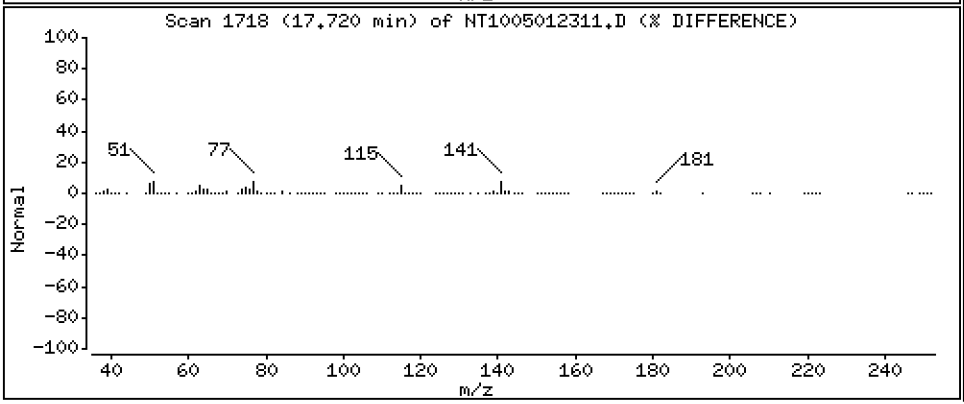
56 4-Bromophenyl-phenylether

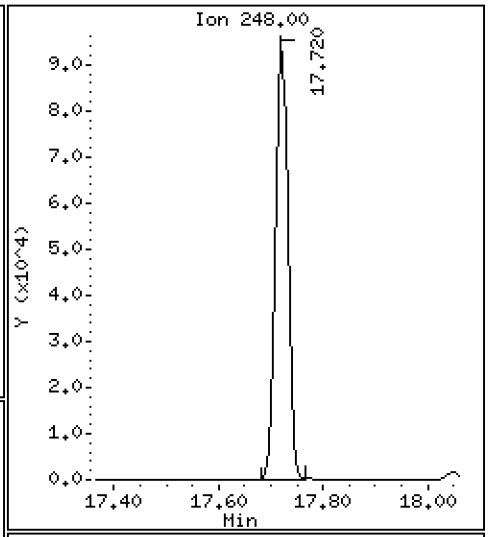
Concentration: 4.942 ug/mL

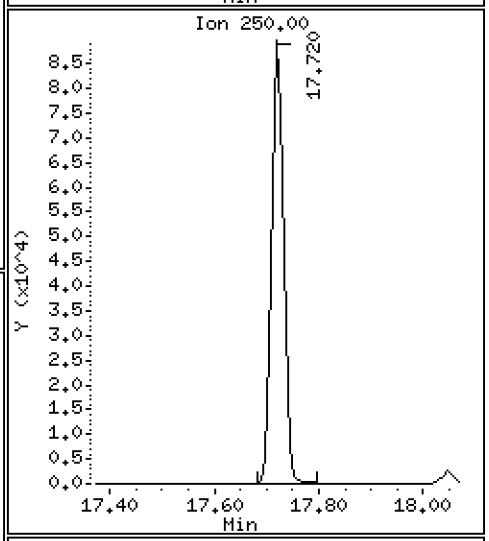


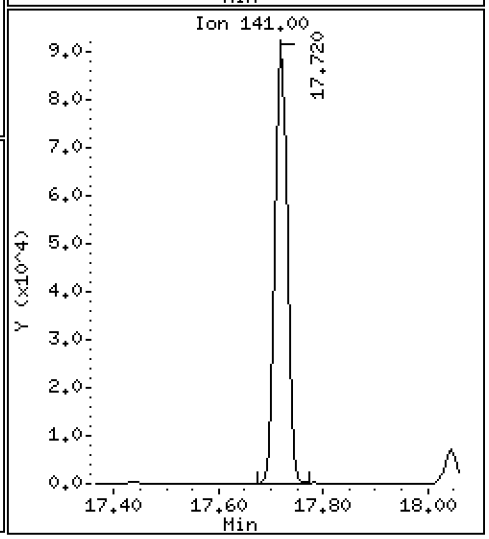












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

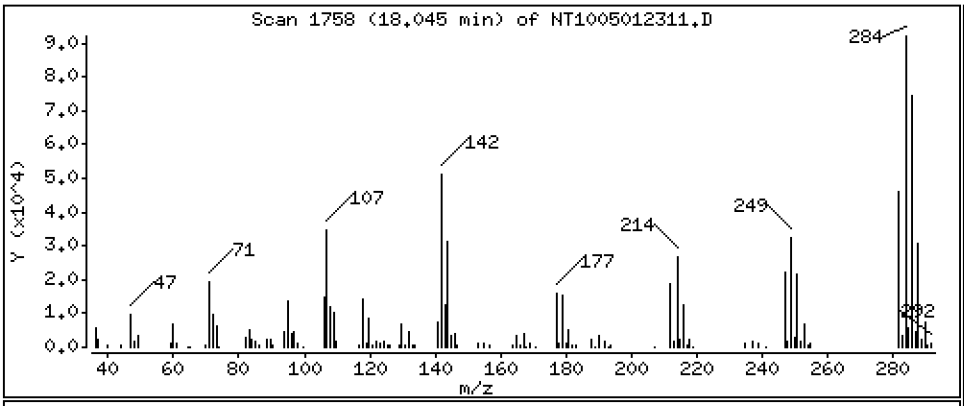
Operator: VTS

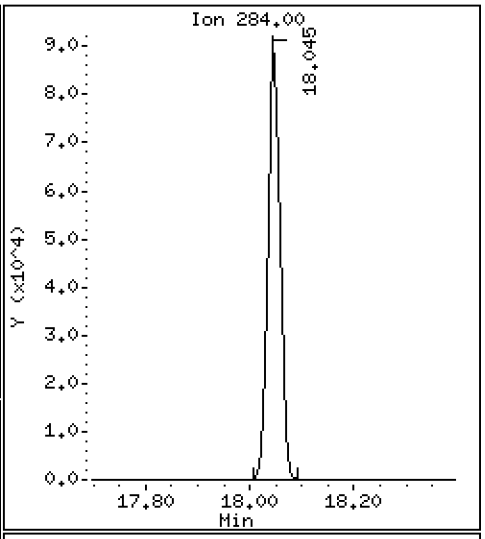
Column phase: ZB-5msi

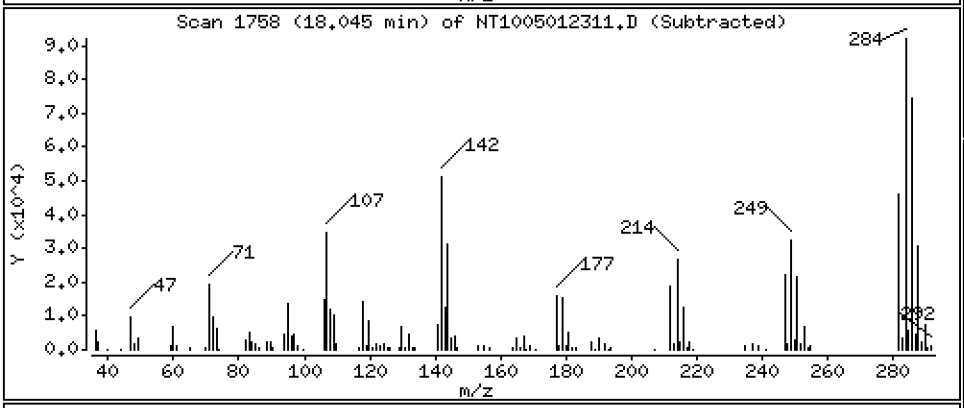
Column diameter: 0.25

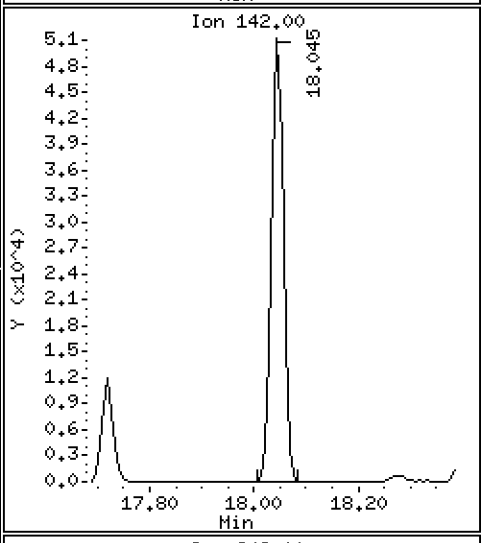
57 Hexachlorobenzene

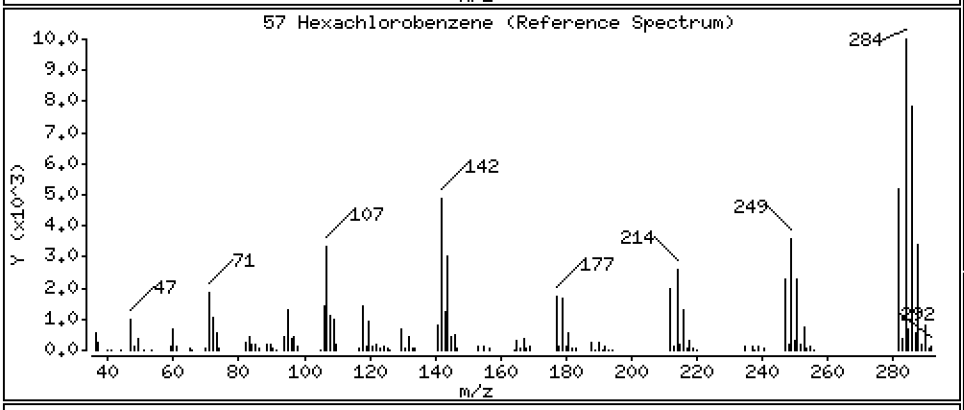
Concentration: 4.689 ug/mL

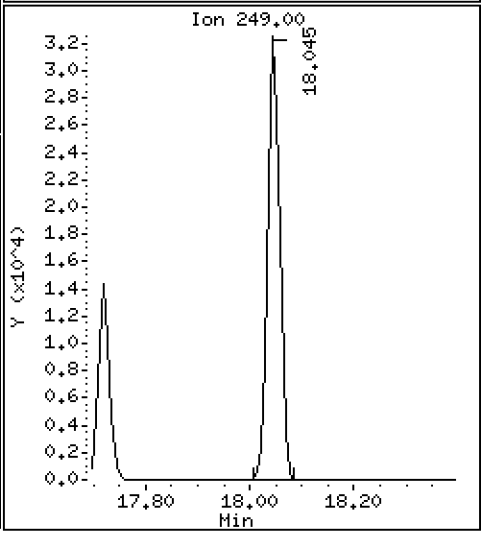


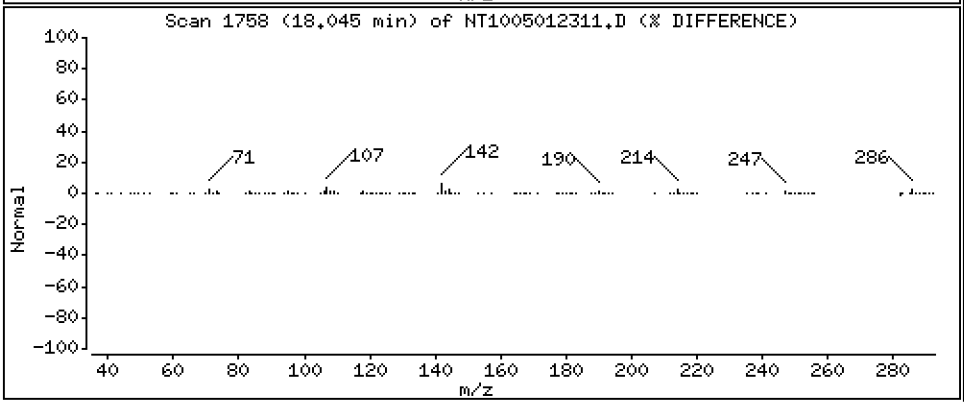












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

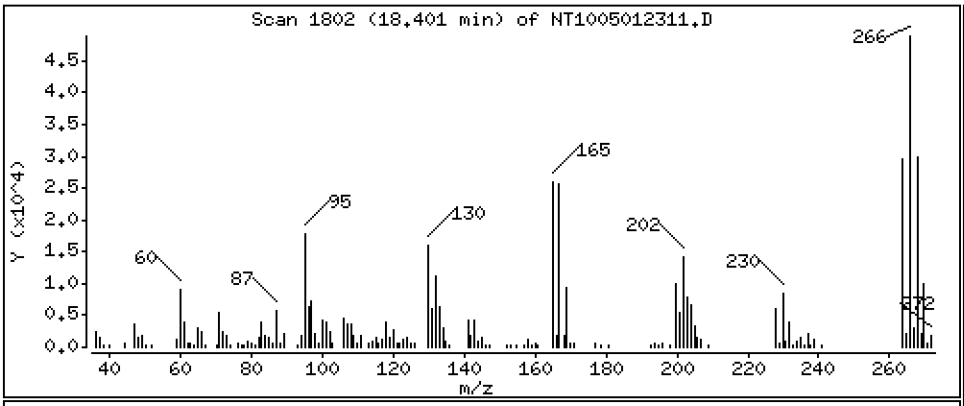
Operator: VTS

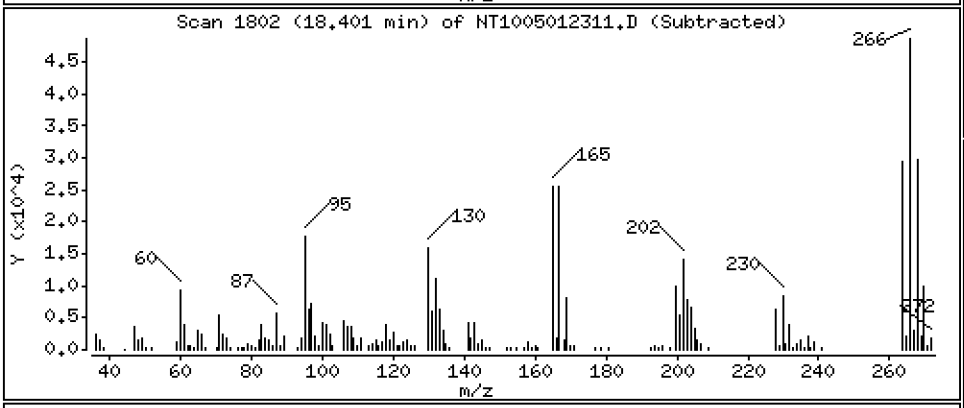
Column phase: ZB-5msi

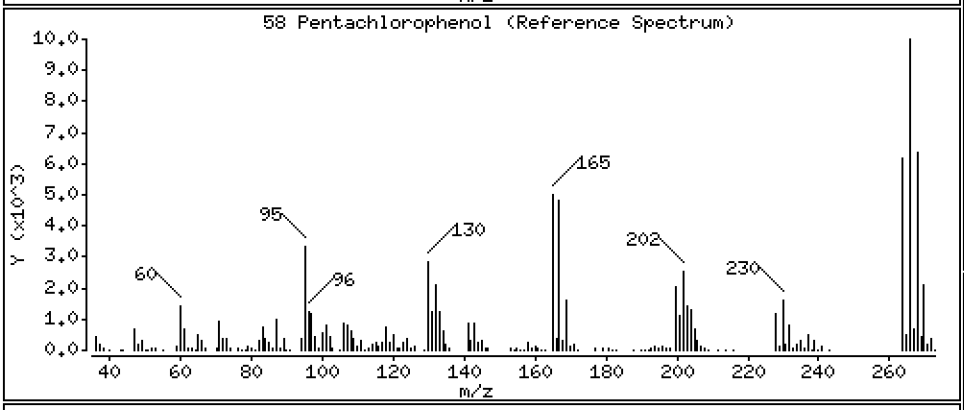
Column diameter: 0.25

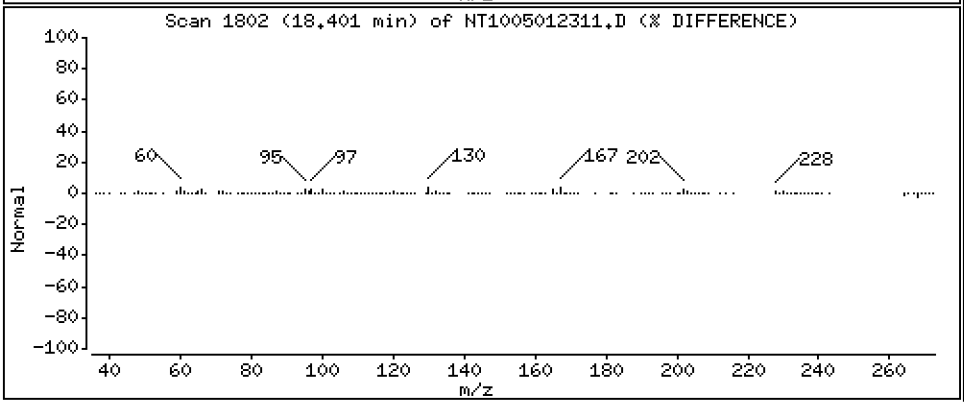
58 Pentachlorophenol

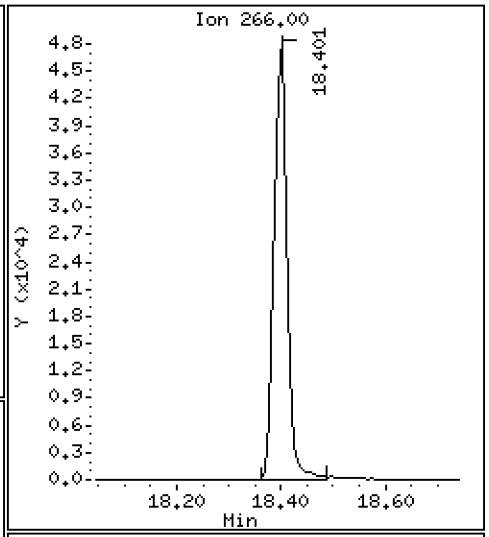
Concentration: 3.866 ug/mL

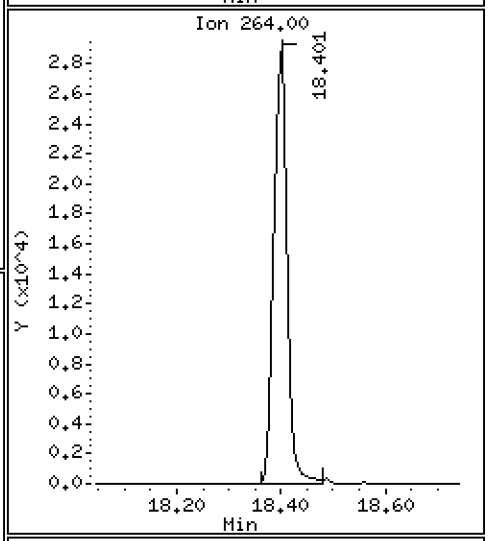


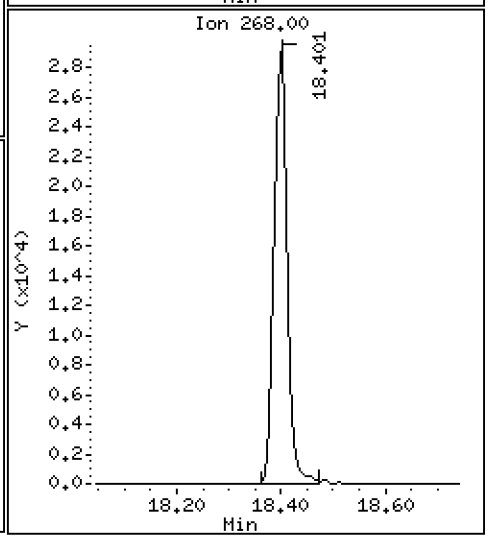












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

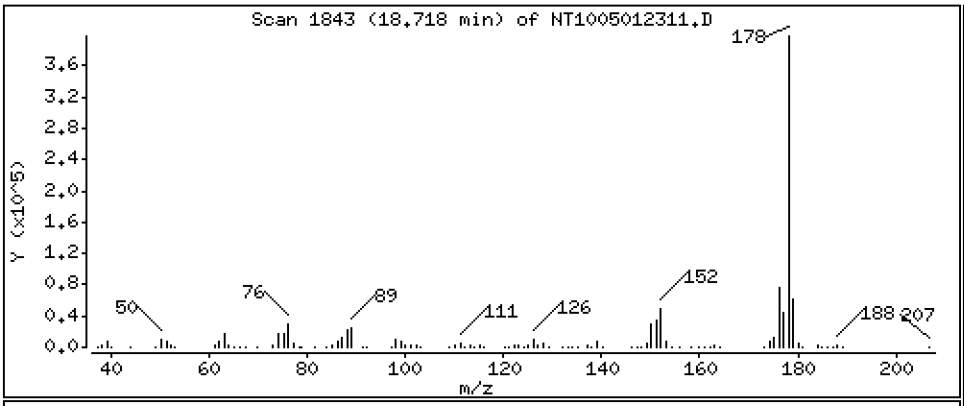
Operator: VTS

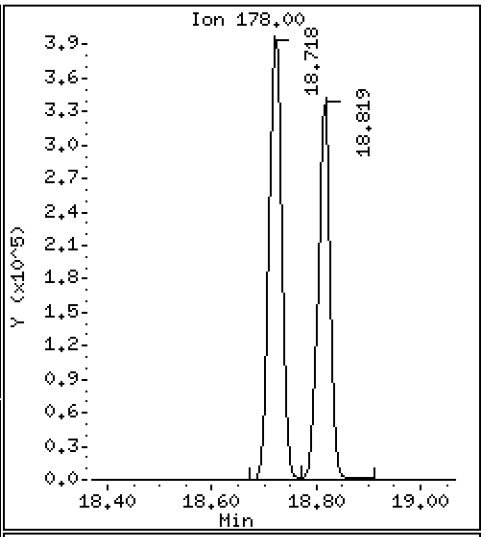
Column phase: ZB-5msi

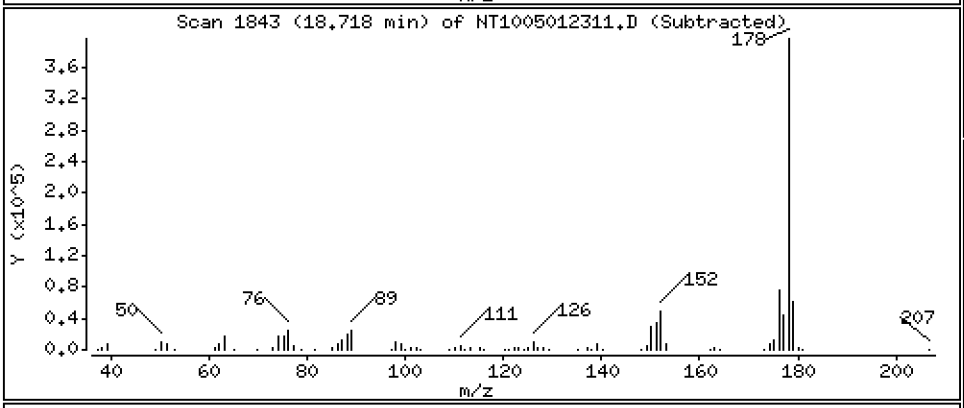
Column diameter: 0.25

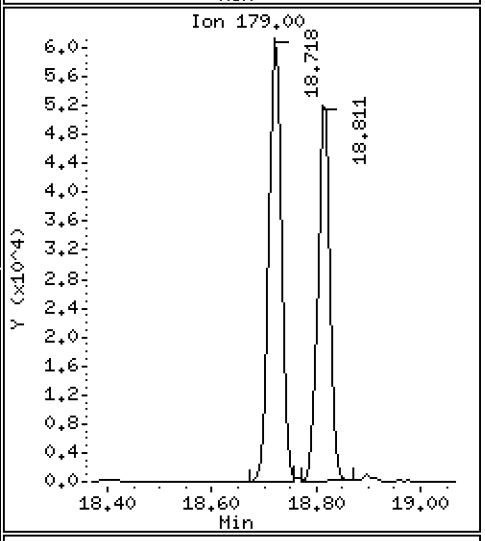
60 Phenanthrene

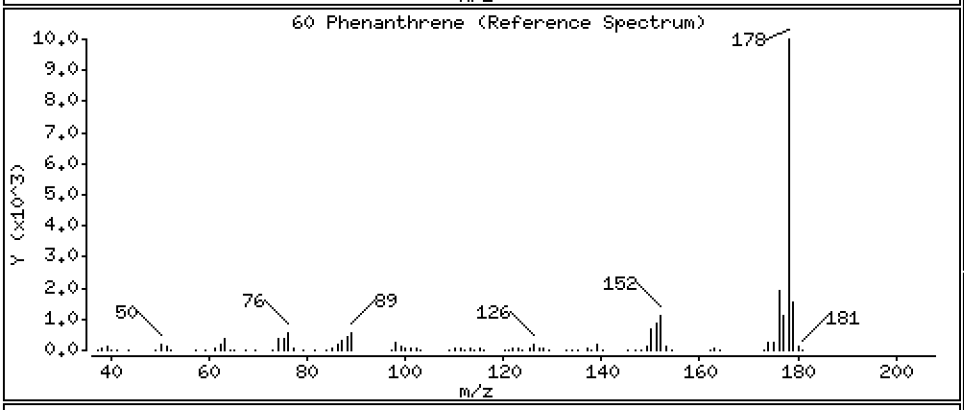
Concentration: 4.586 ug/mL

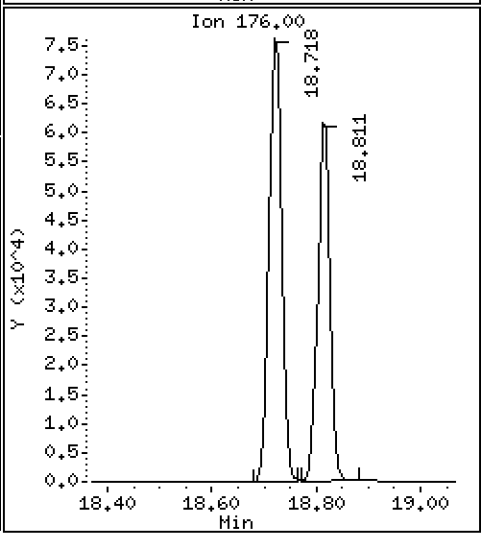


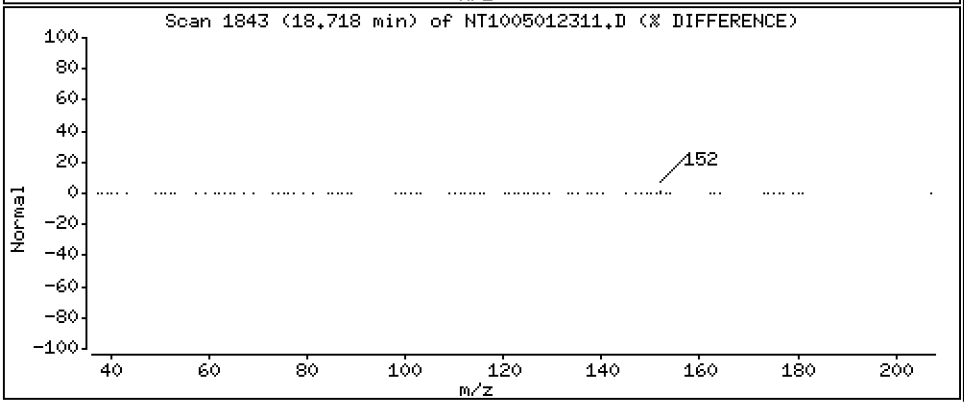












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

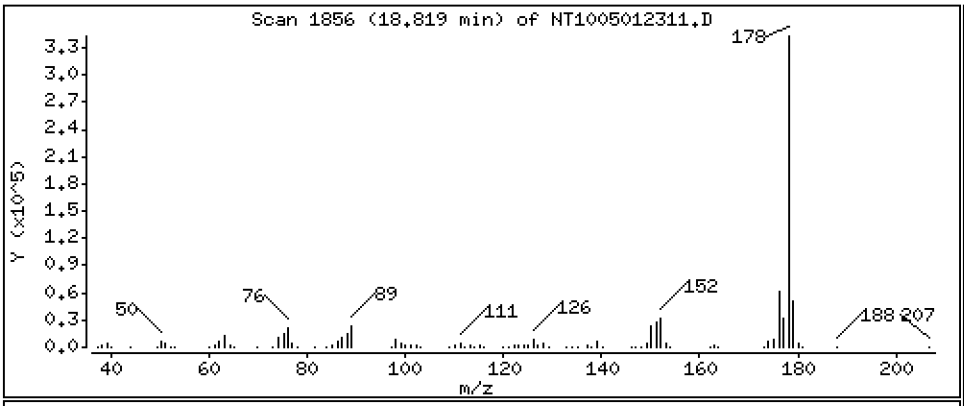
Operator: VTS

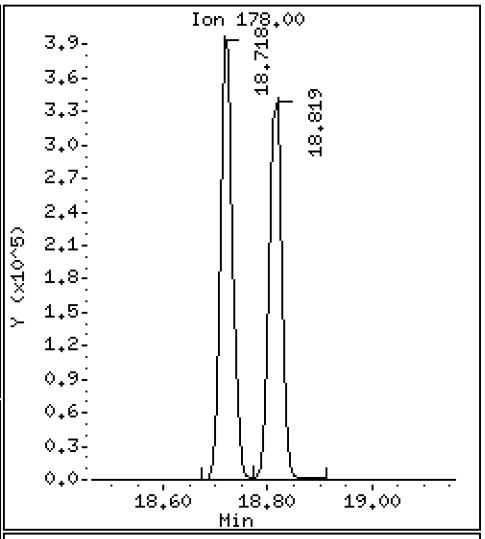
Column phase: ZB-5msi

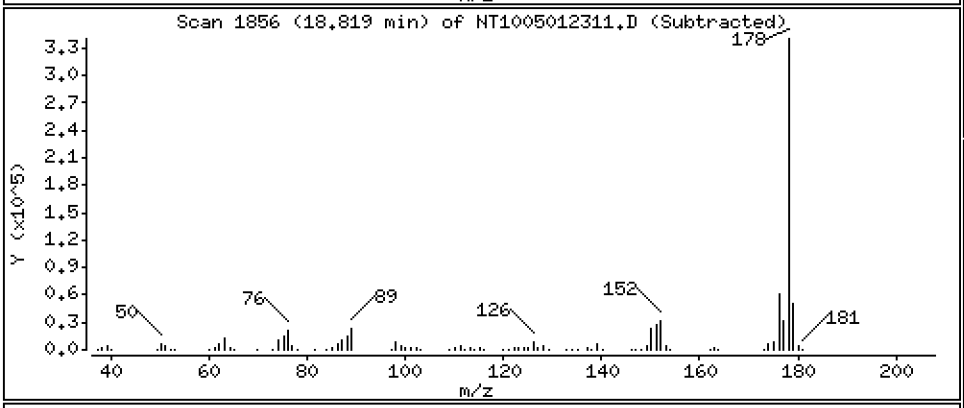
Column diameter: 0.25

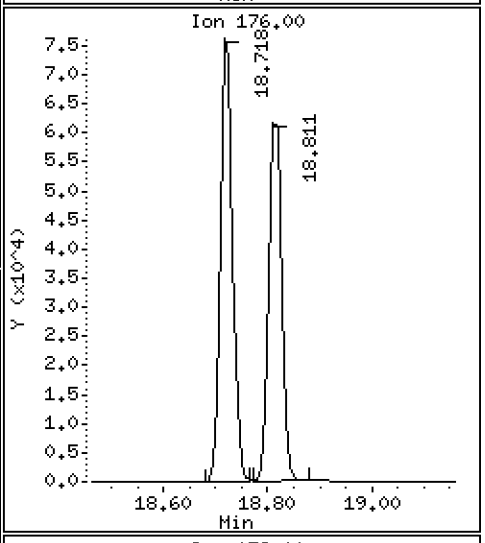
61 Anthracene

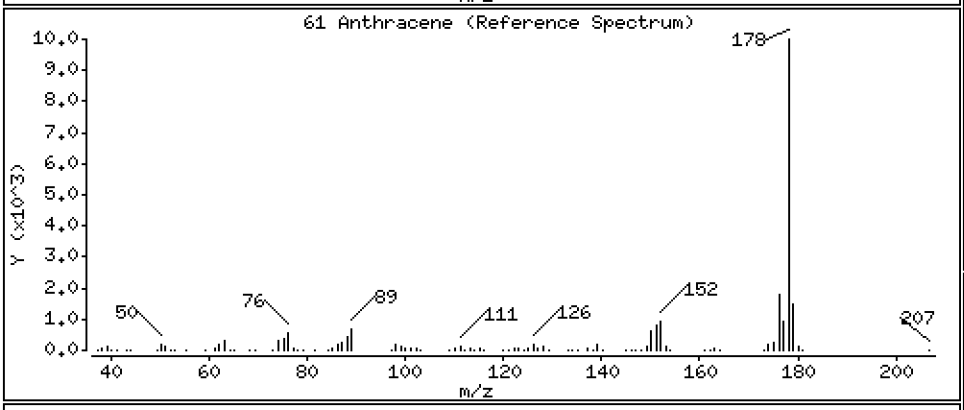
Concentration: 4.169 ug/mL

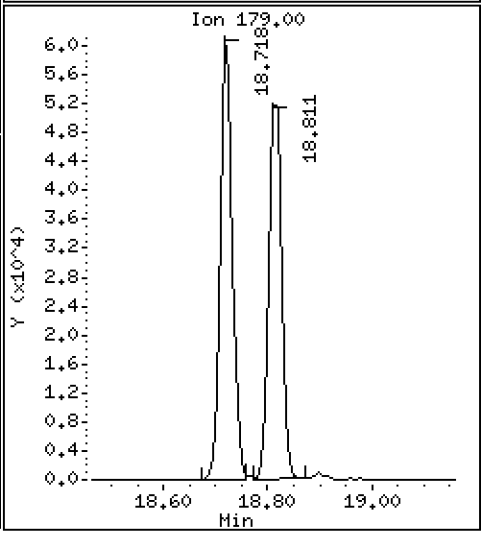


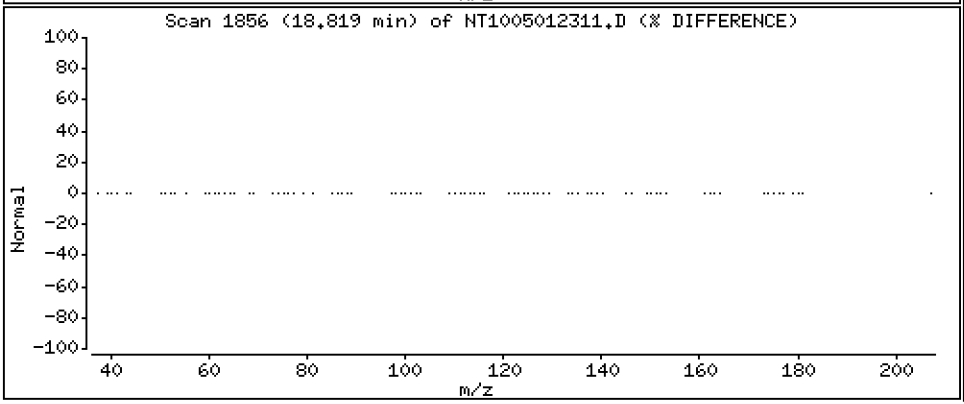












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

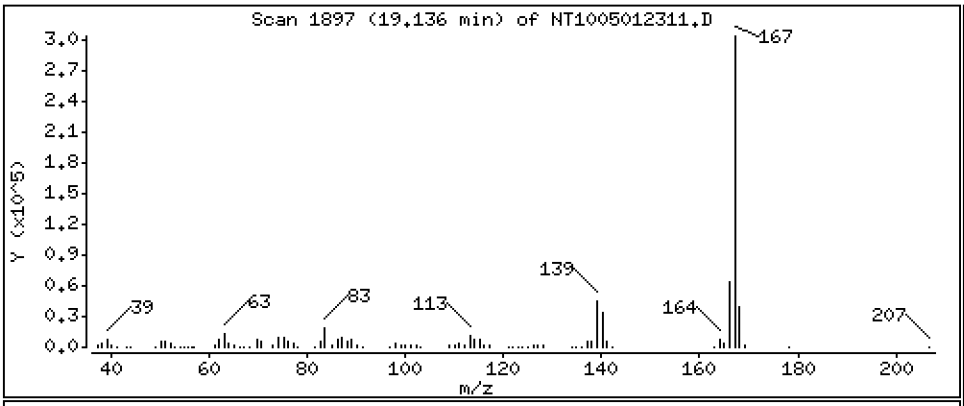
Operator: VTS

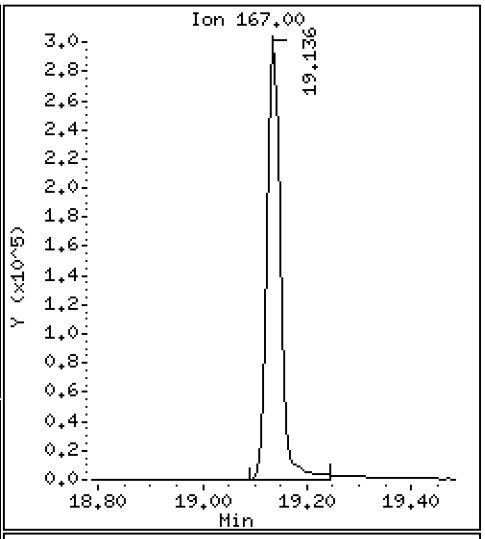
Column phase: ZB-5msi

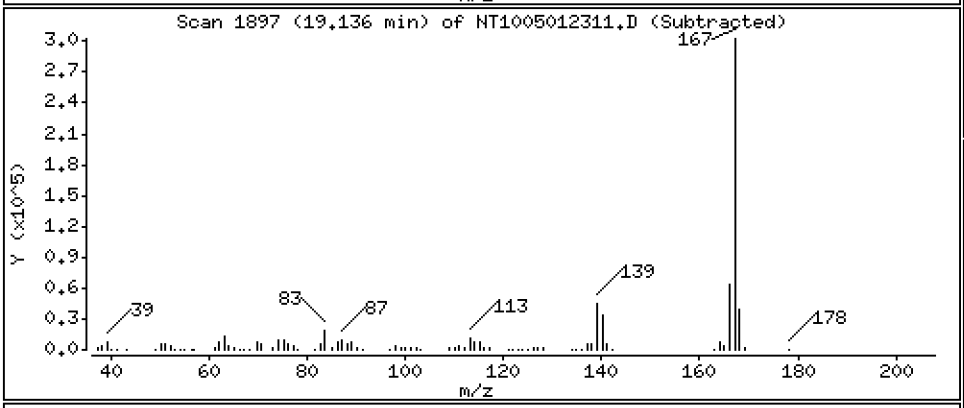
Column diameter: 0.25

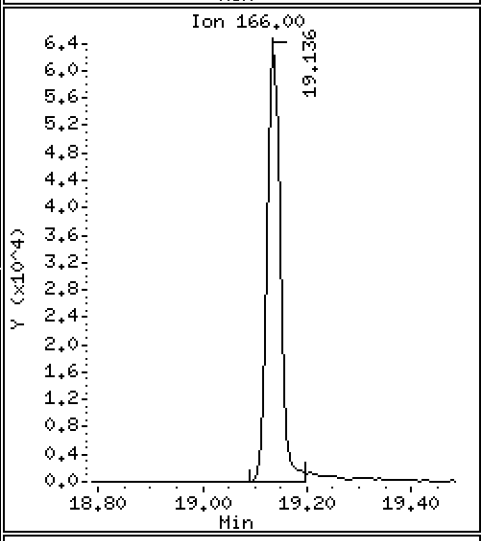
62 Carbazole

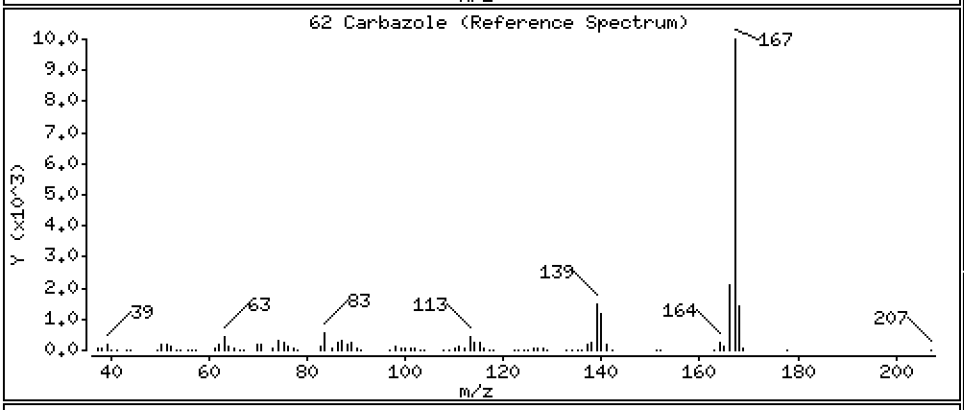
Concentration: 4.503 ug/mL

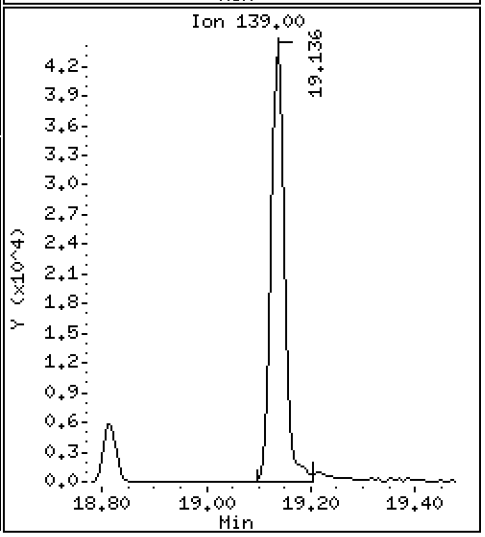


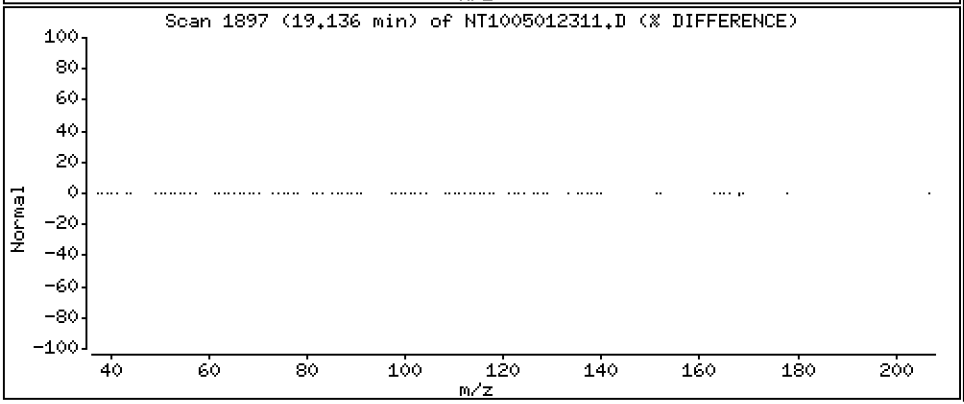












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

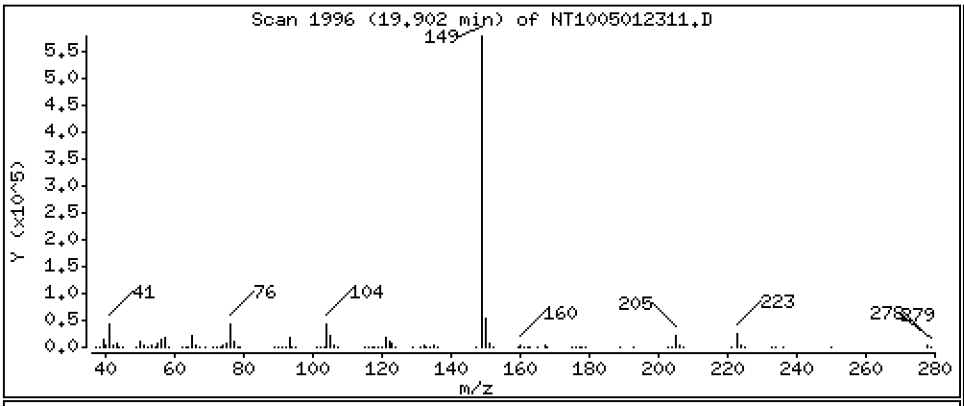
Operator: VTS

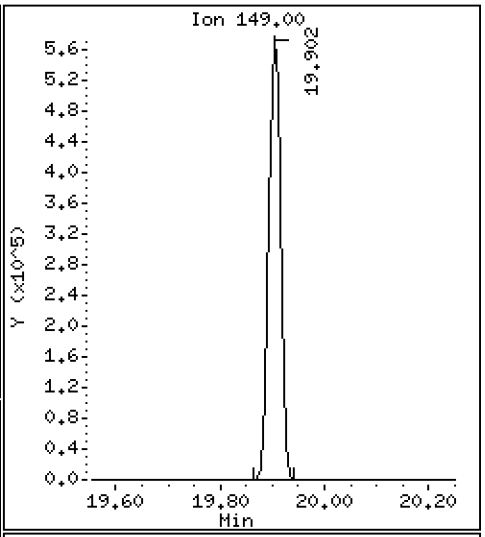
Column phase: ZB-5msi

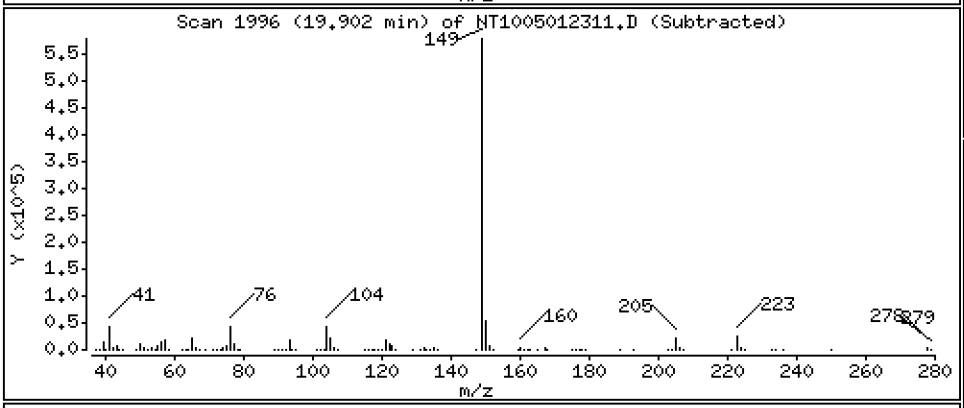
Column diameter: 0.25

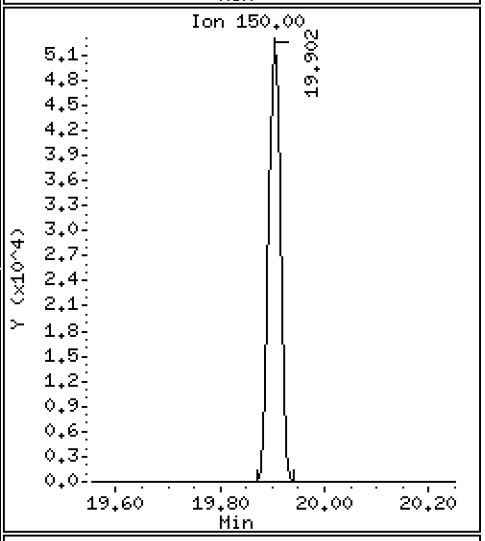
63 Di-n-butylphthalate

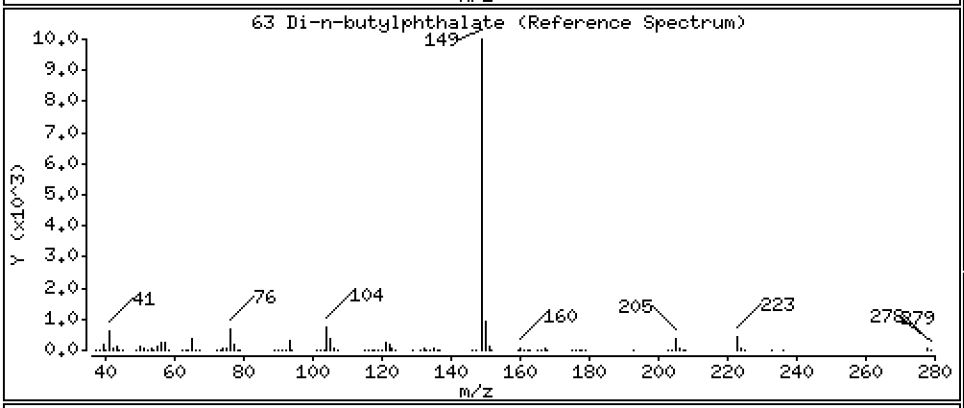
Concentration: 4.895 ug/mL

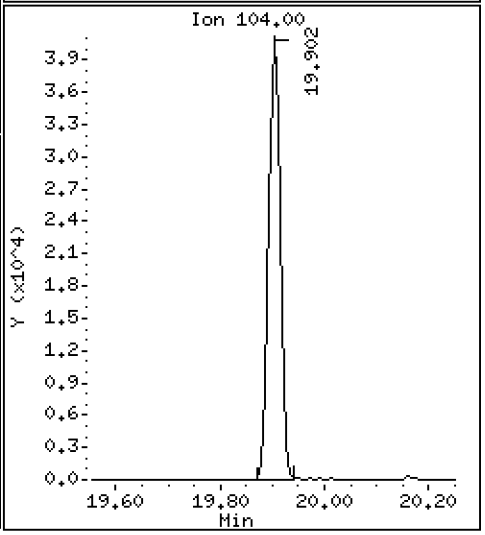


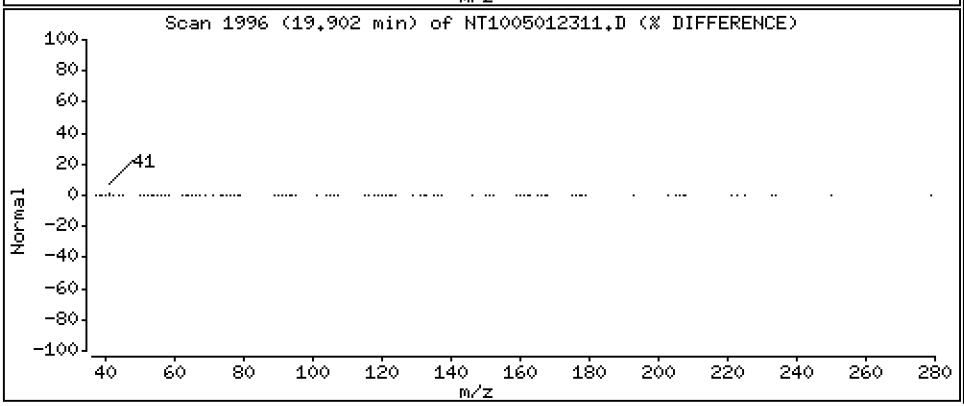












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

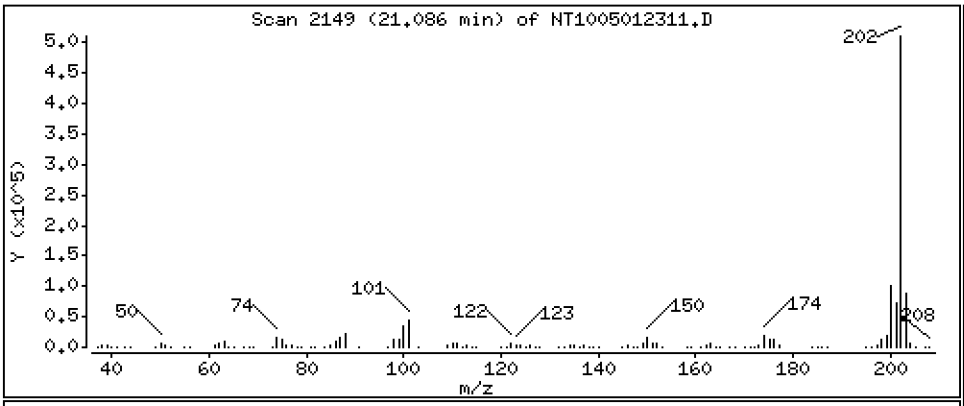
Operator: VTS

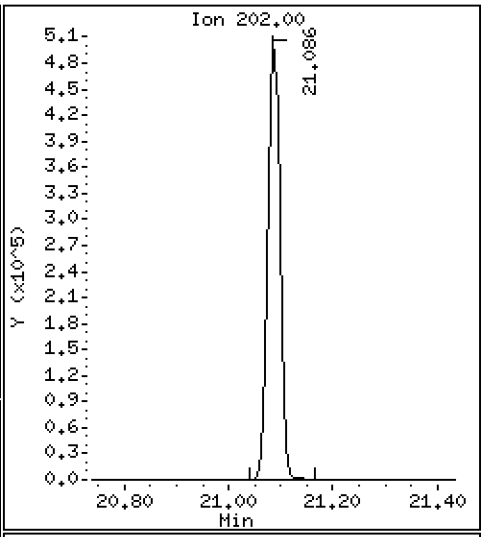
Column phase: ZB-5msi

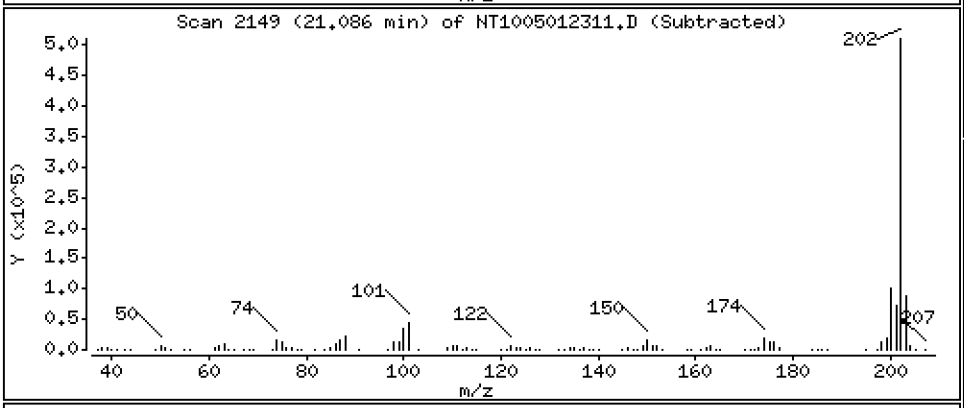
Column diameter: 0.25

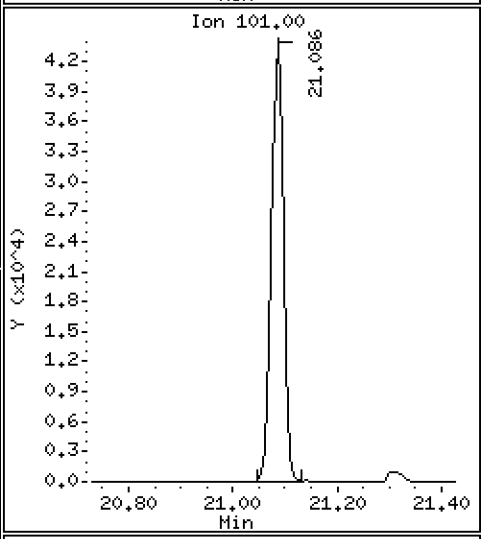
64 Fluoranthene

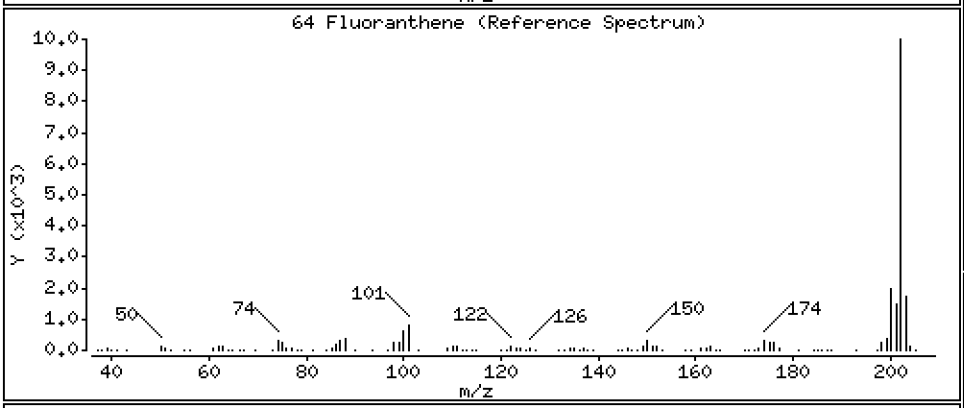
Concentration: 4.738 ug/mL

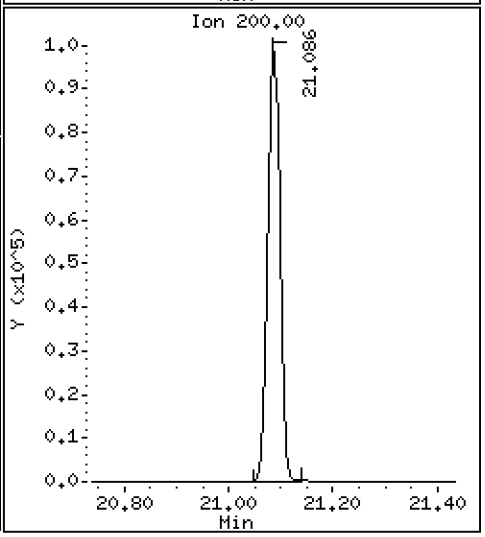


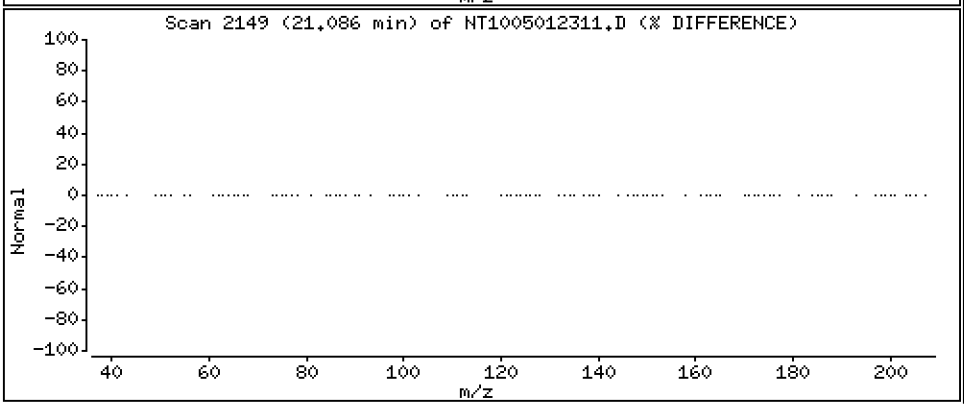












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

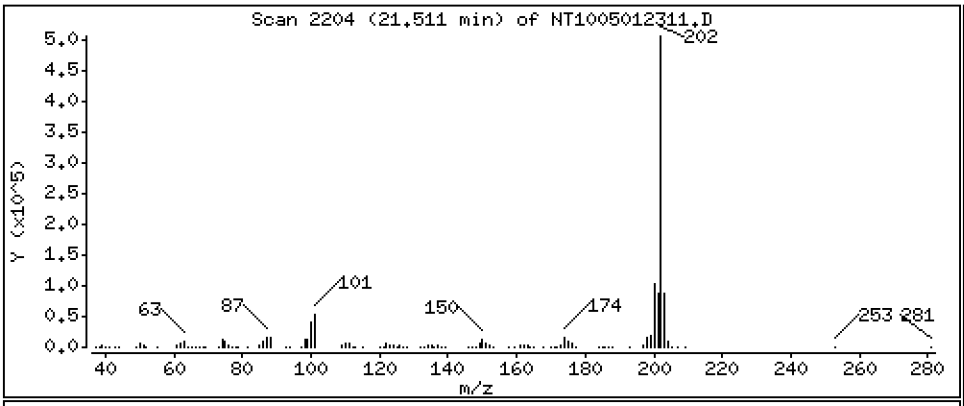
Operator: VTS

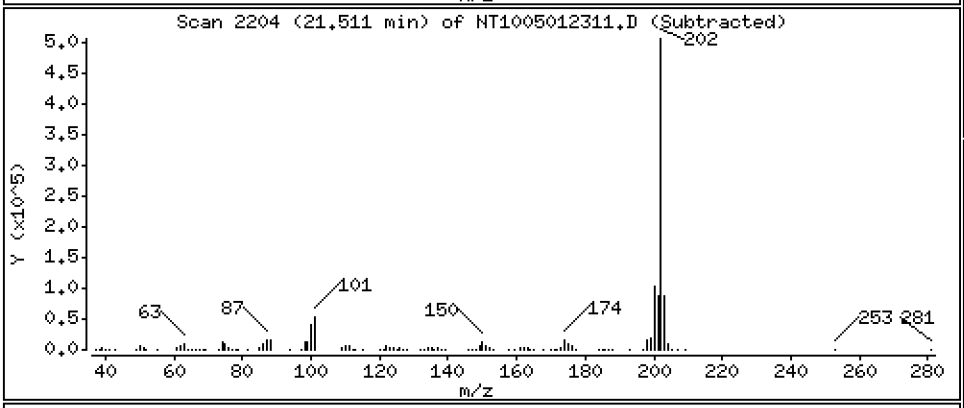
Column phase: ZB-5msi

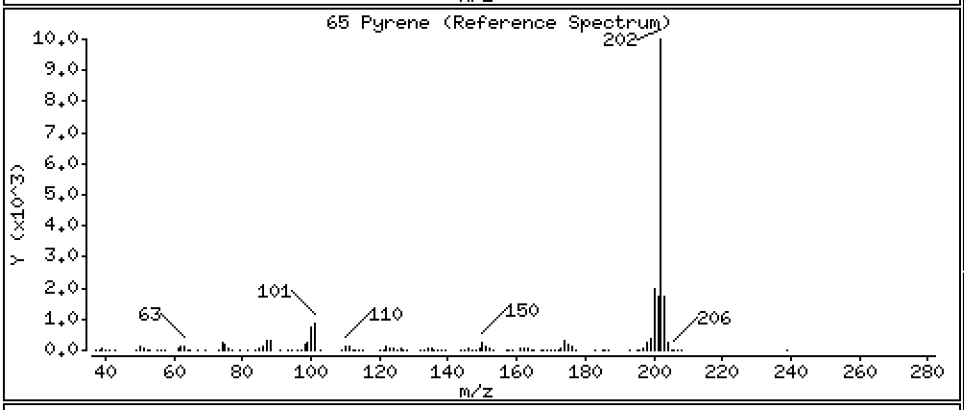
Column diameter: 0.25

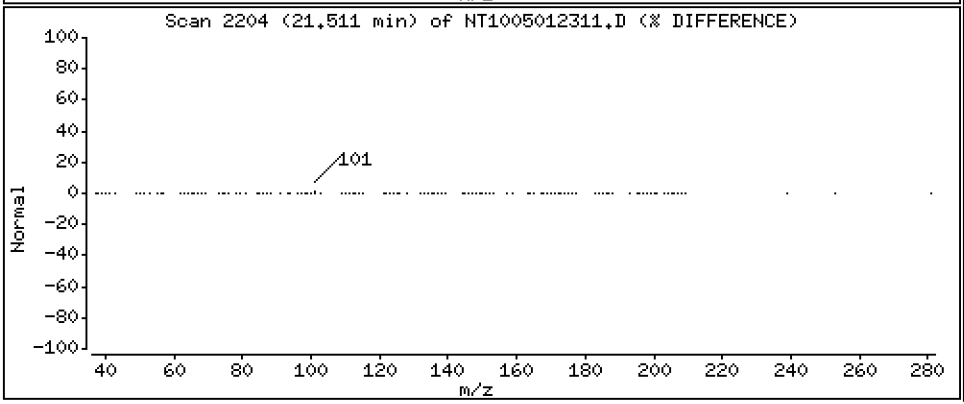
65 Pyrene

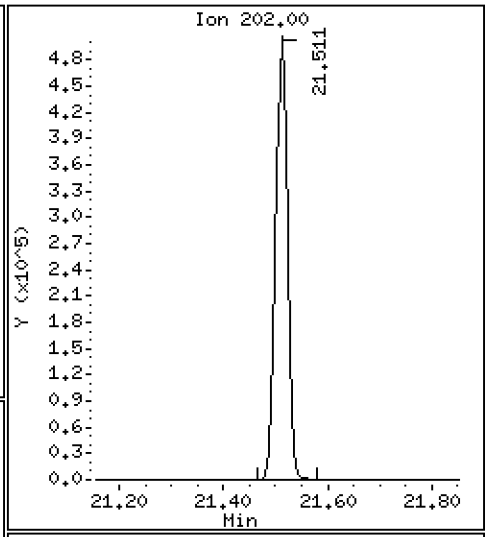
Concentration: 4.635 ug/mL

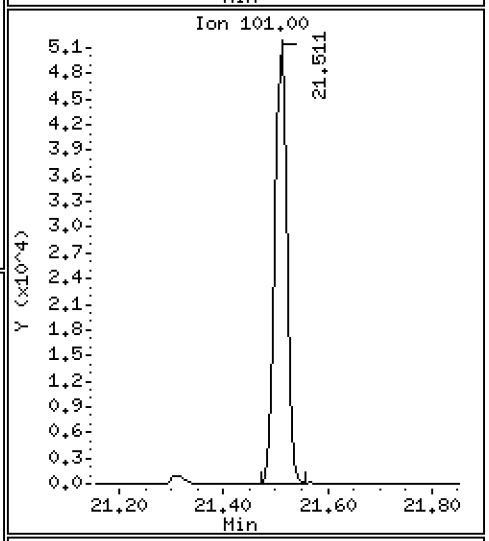


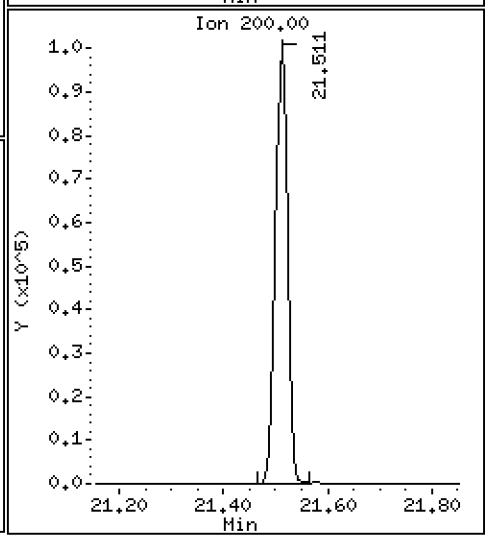












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

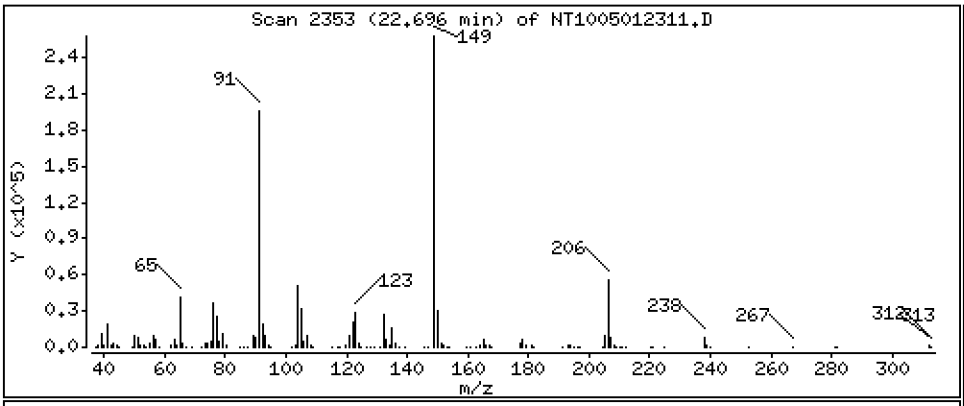
Operator: VTS

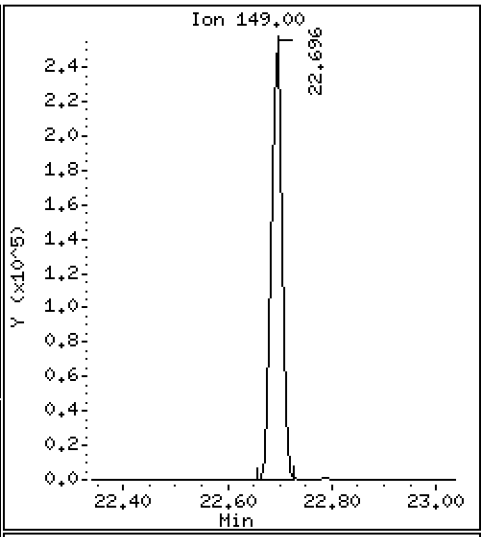
Column phase: ZB-5msi

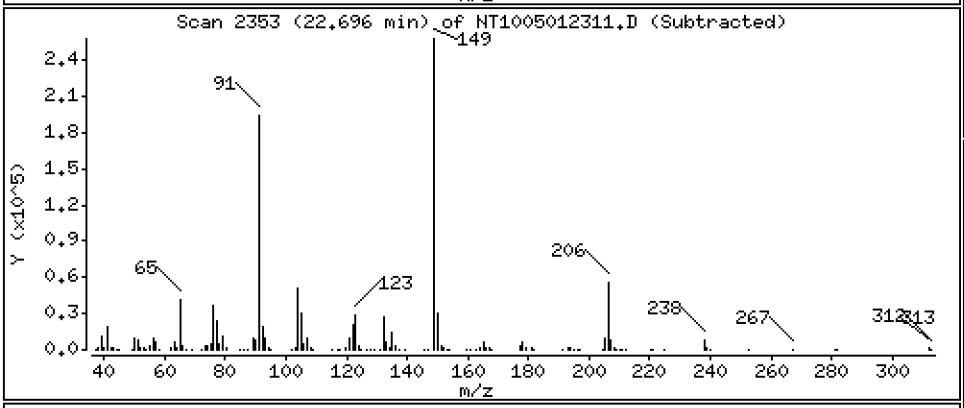
Column diameter: 0.25

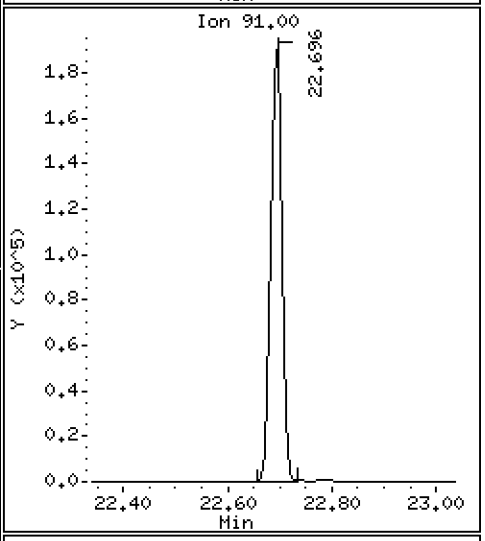
67 Butylbenzylphthalate

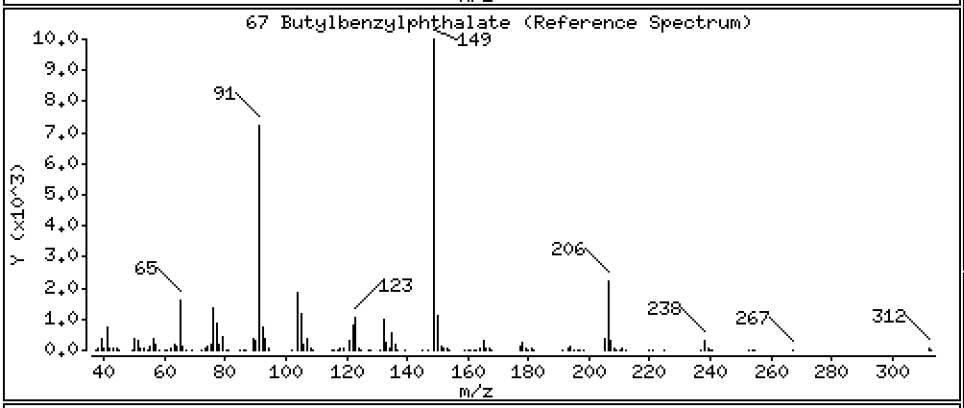
Concentration: 4.778 ug/mL

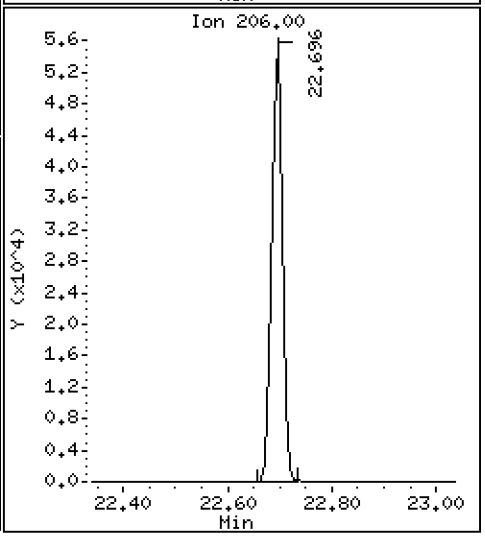


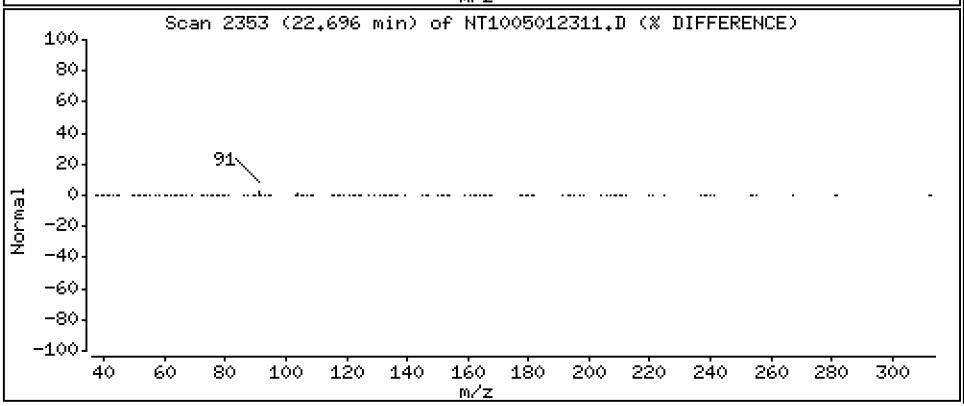












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

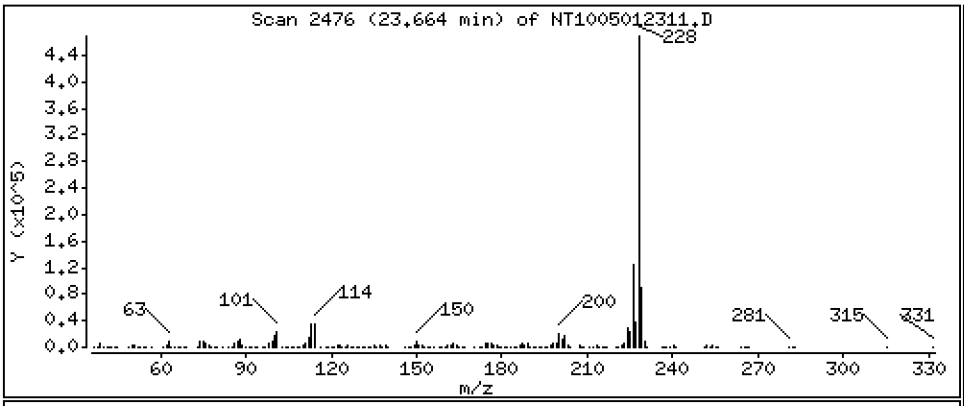
Operator: VTS

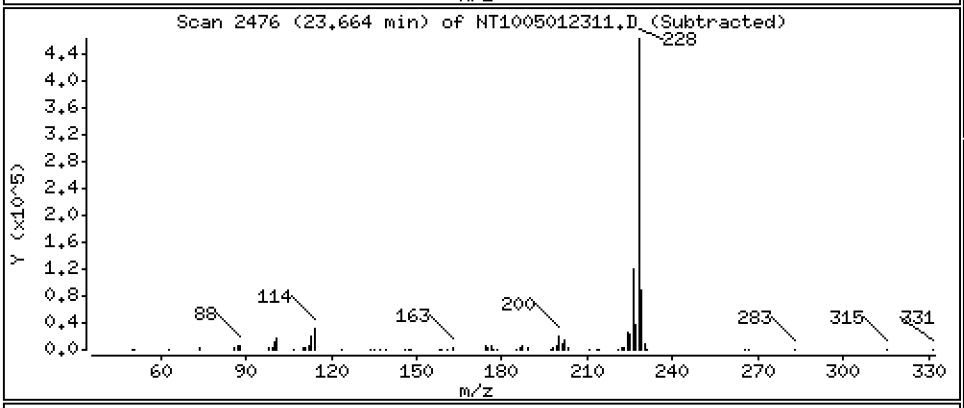
Column phase: ZB-5msi

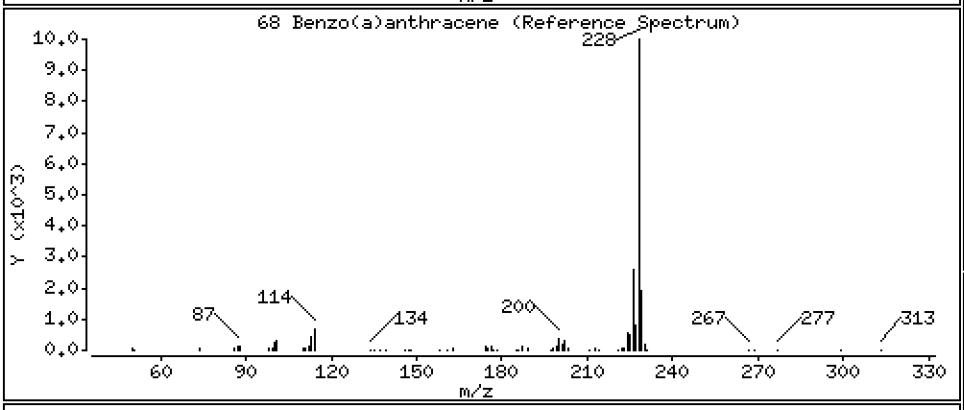
Column diameter: 0.25

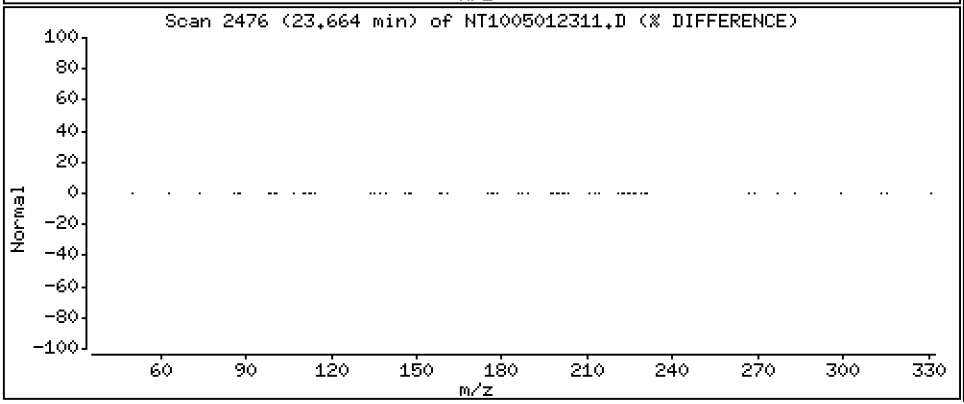
68 Benzo(a)anthracene

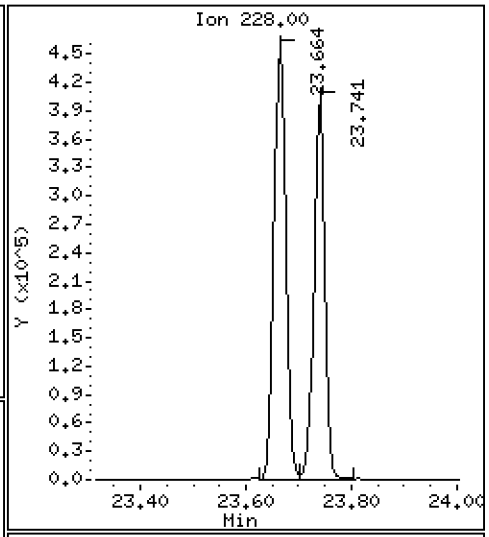
Concentration: 4.717 ug/mL

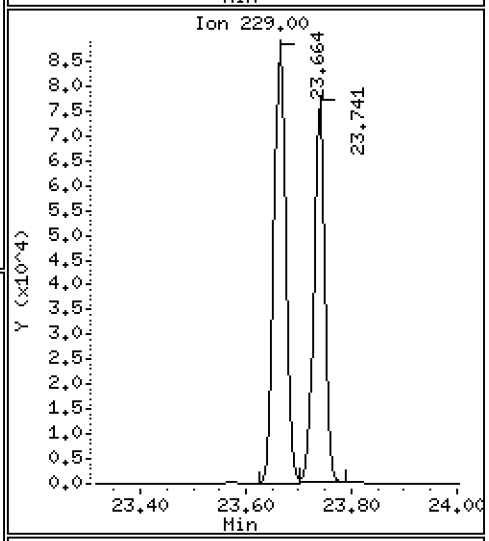


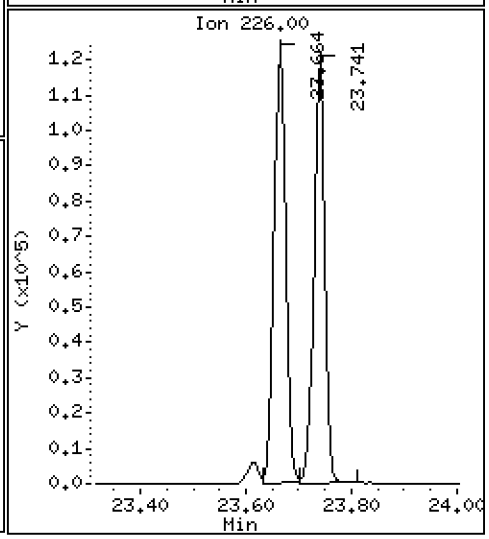












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

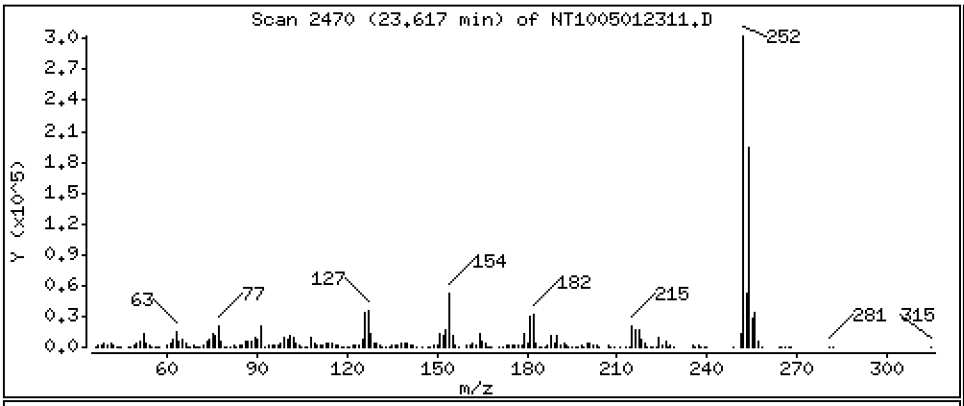
Operator: VTS

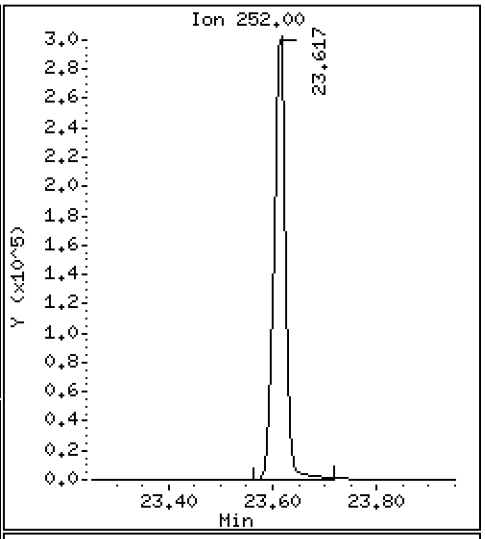
Column phase: ZB-5msi

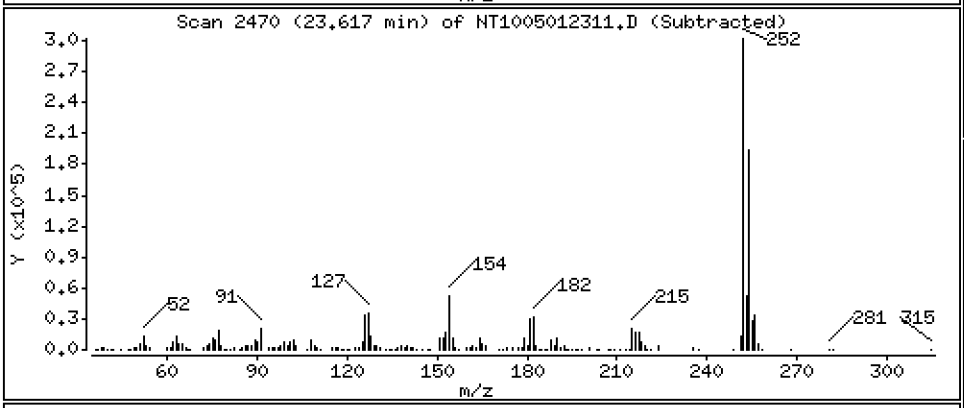
Column diameter: 0.25

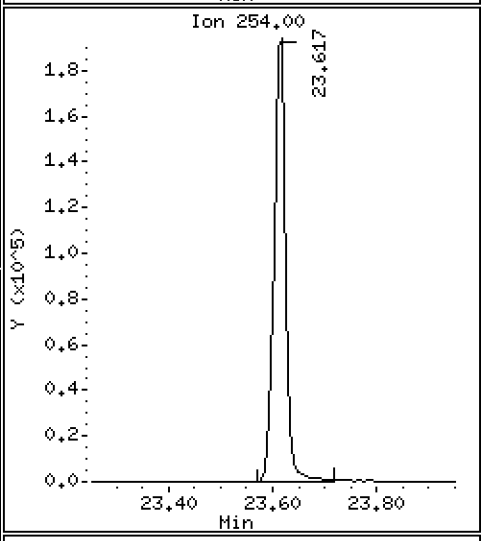
70 3,3'-Dichlorobenzidine

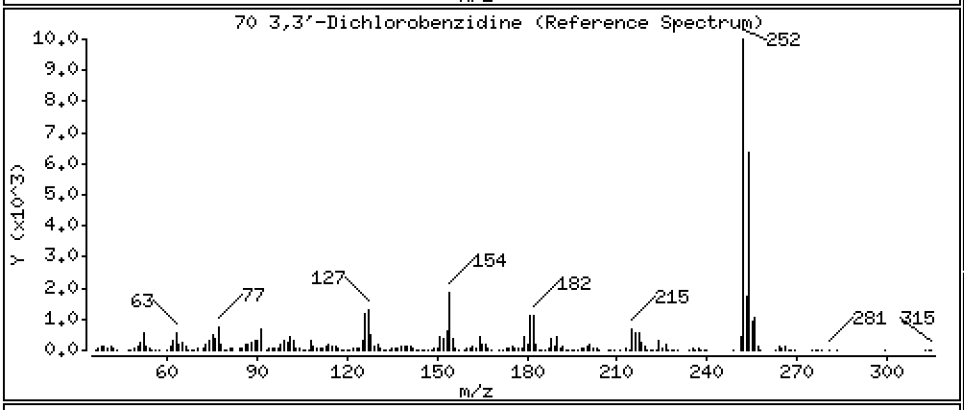
Concentration: 10.21 ug/mL

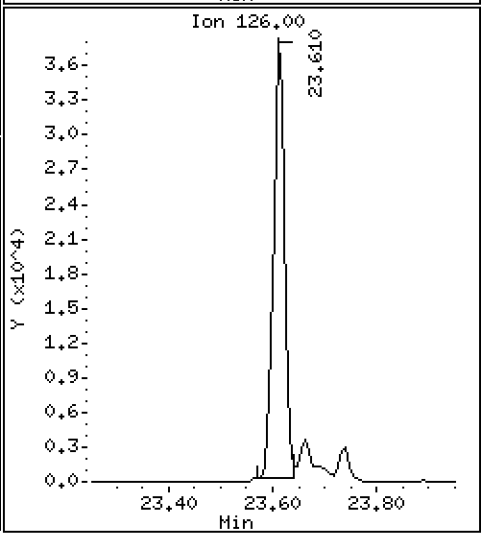


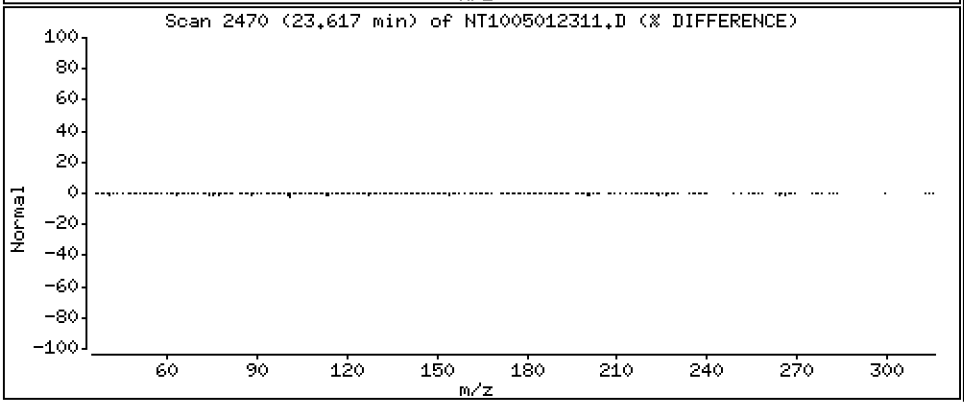












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

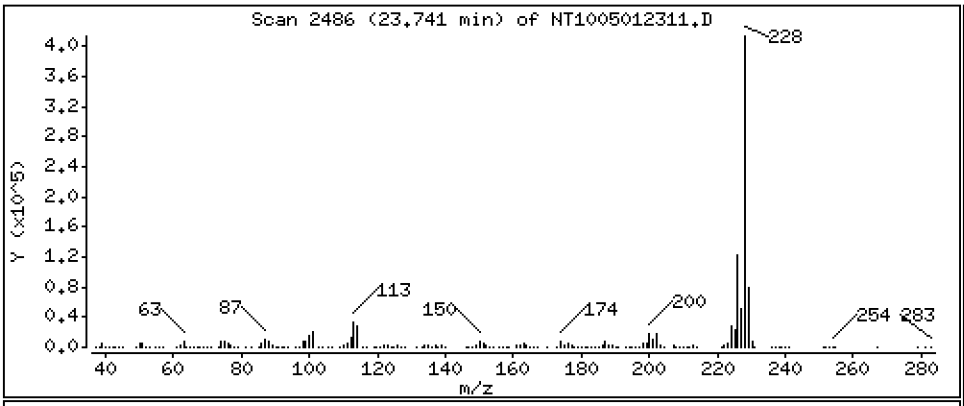
Operator: VTS

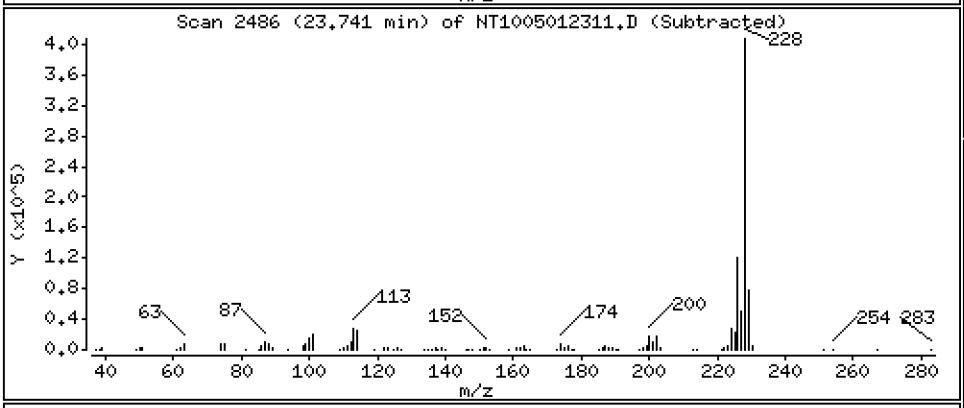
Column phase: ZB-5msi

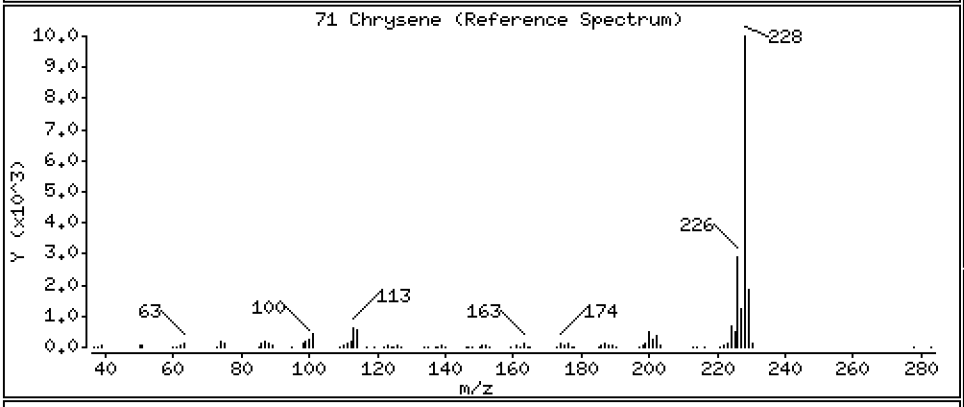
Column diameter: 0.25

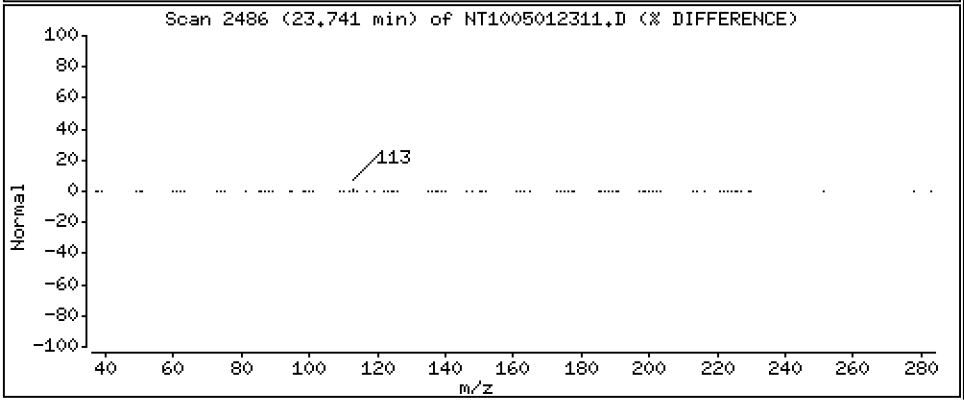
71 Chrysene

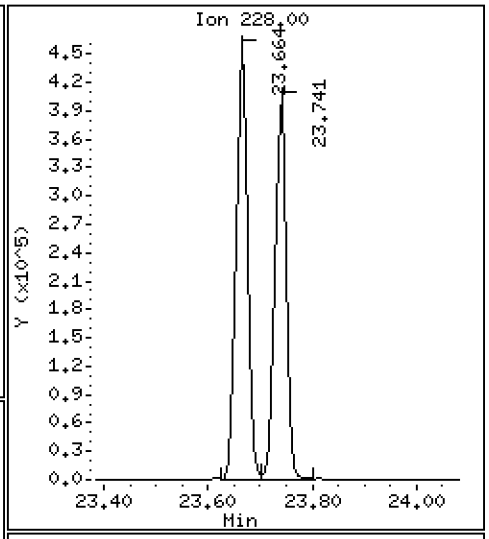
Concentration: 4.540 ug/mL

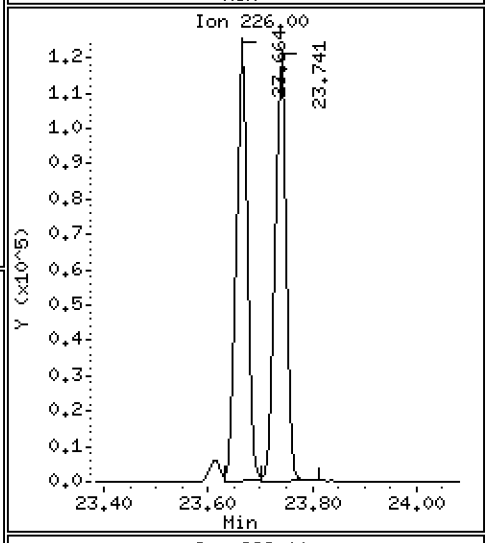


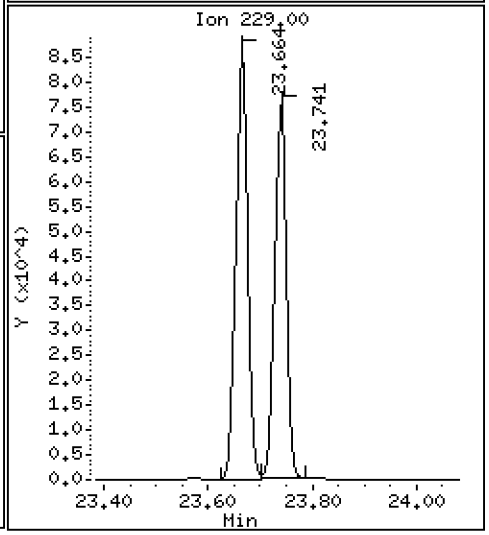












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

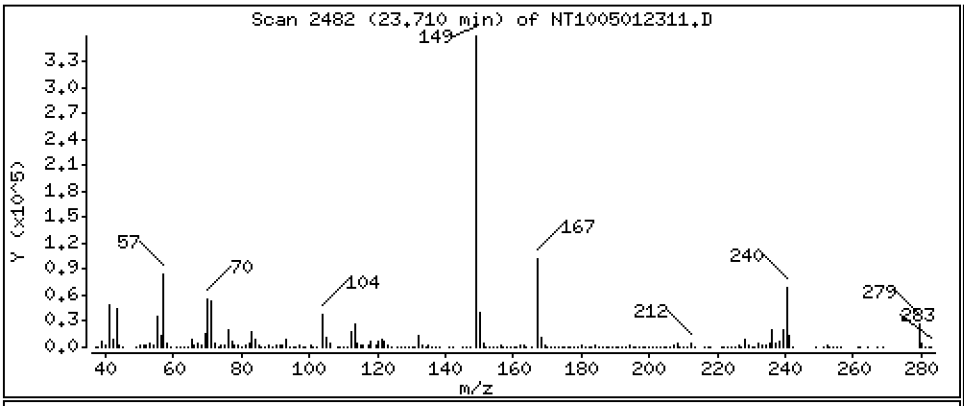
Operator: VTS

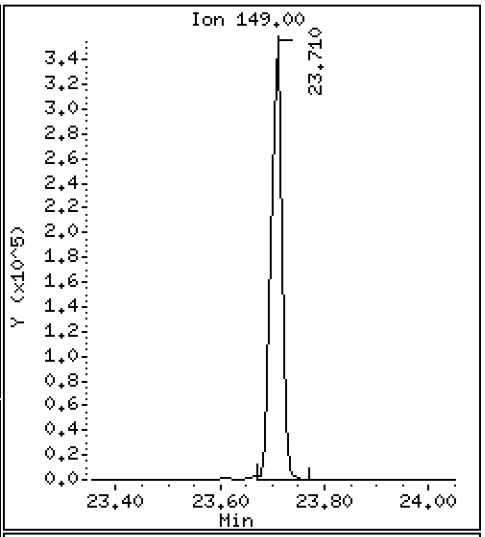
Column phase: ZB-5msi

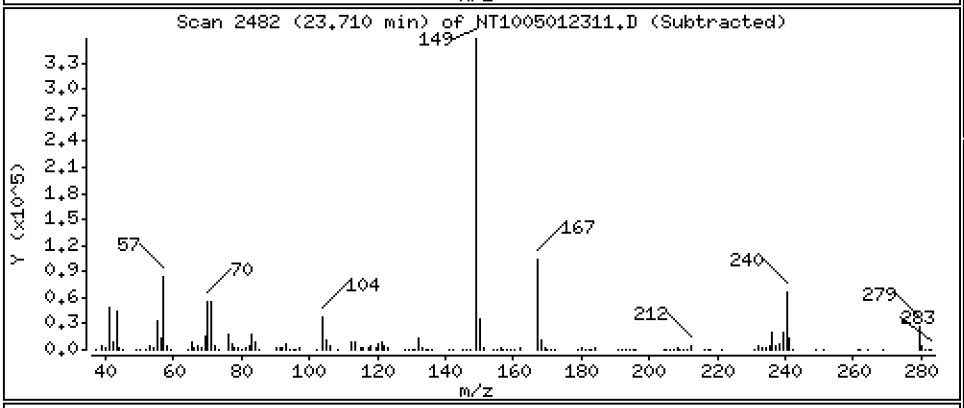
Column diameter: 0.25

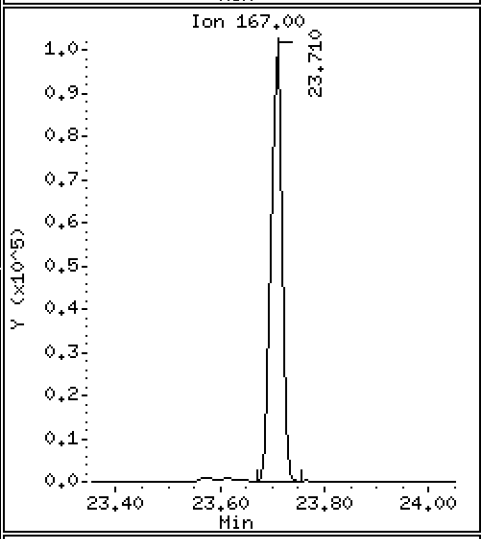
72 bis(2-Ethylhexyl)phthalate

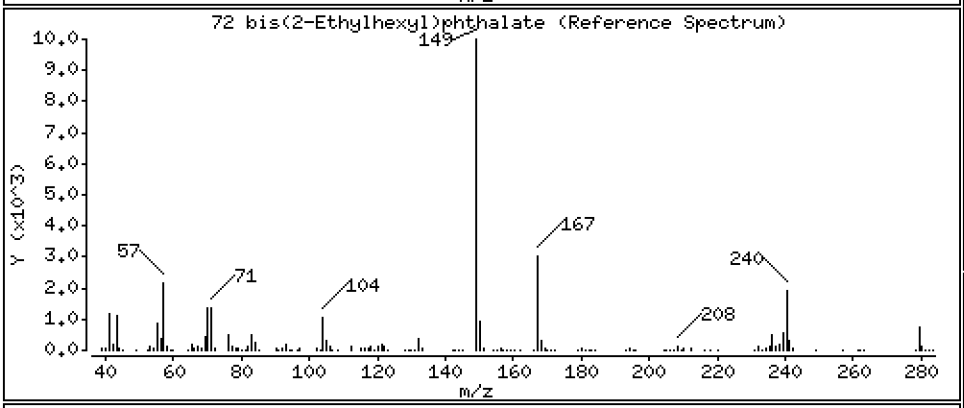
Concentration: 5.406 ug/mL

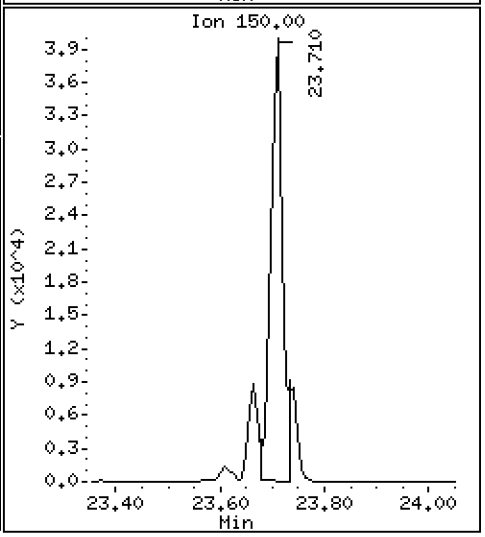


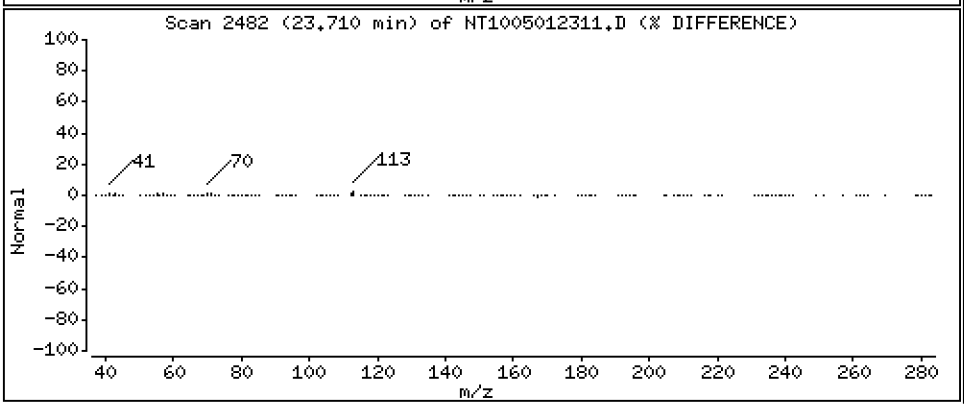












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

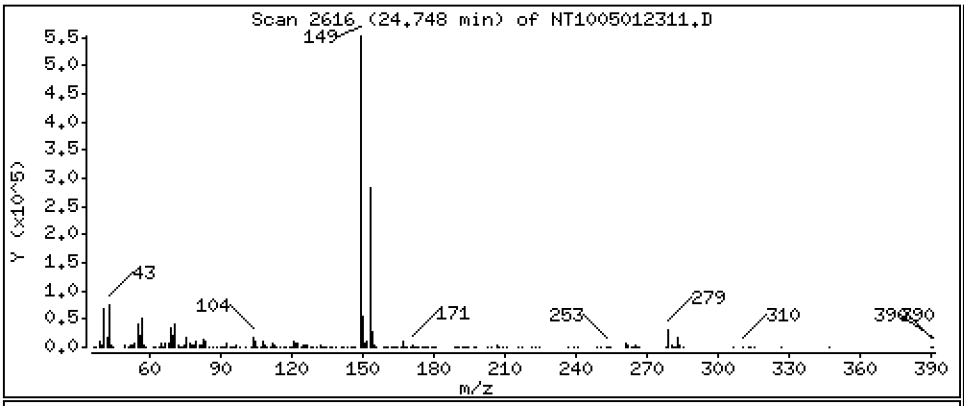
Operator: VTS

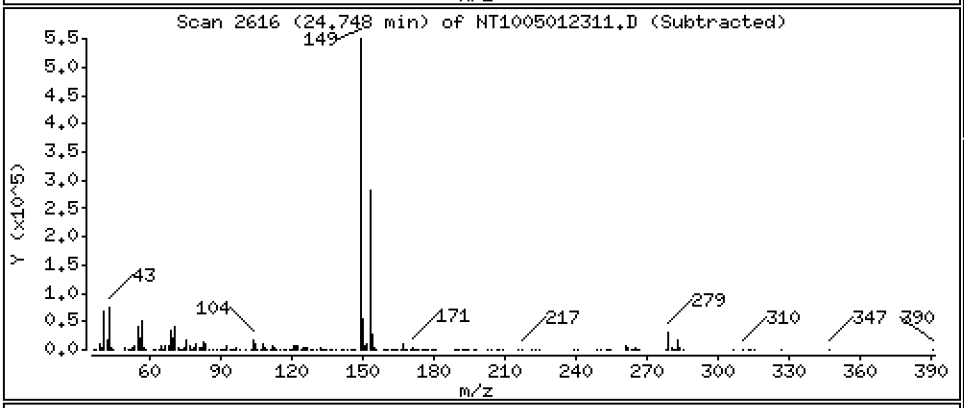
Column phase: ZB-5msi

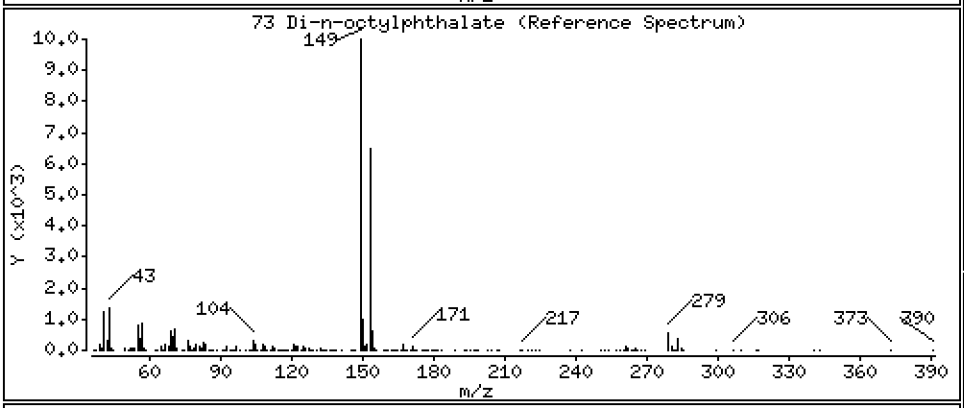
Column diameter: 0.25

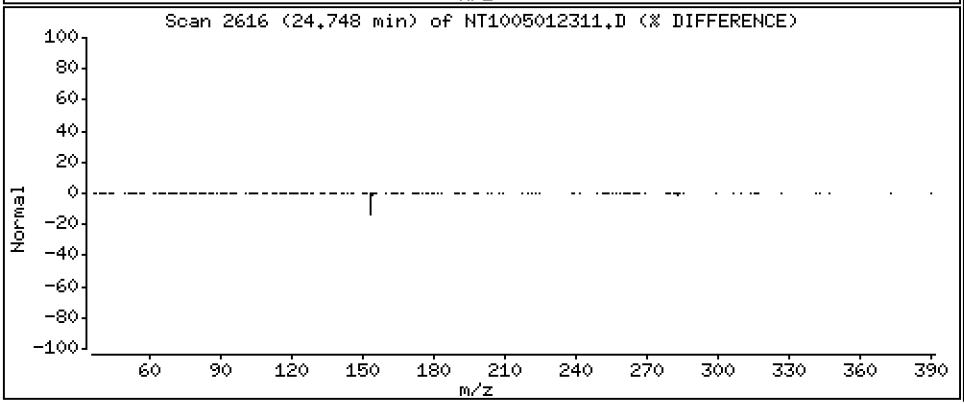
73 Di-n-octylphthalate

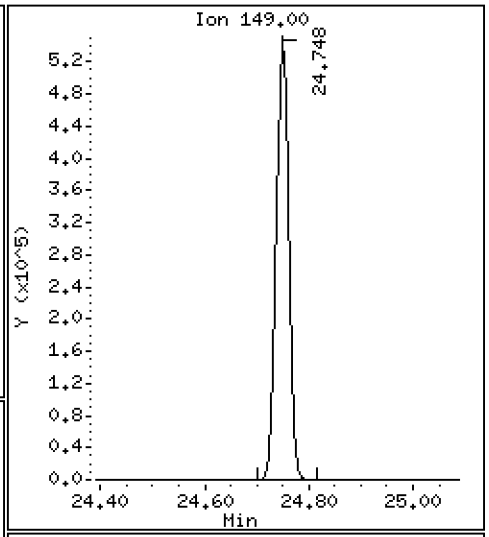
Concentration: 5.161 ug/mL

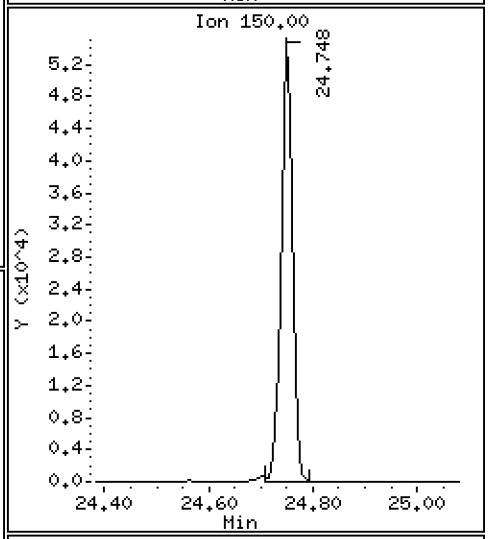


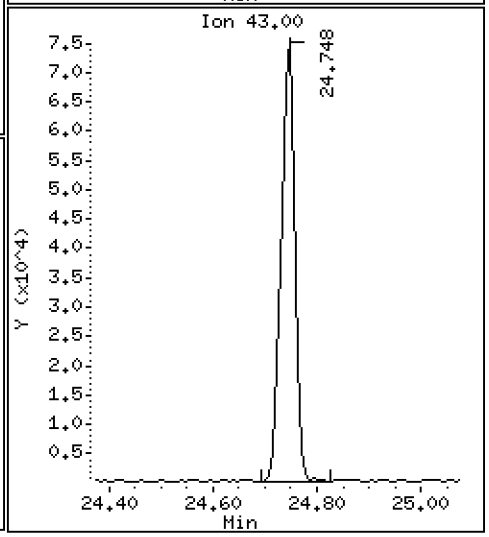












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

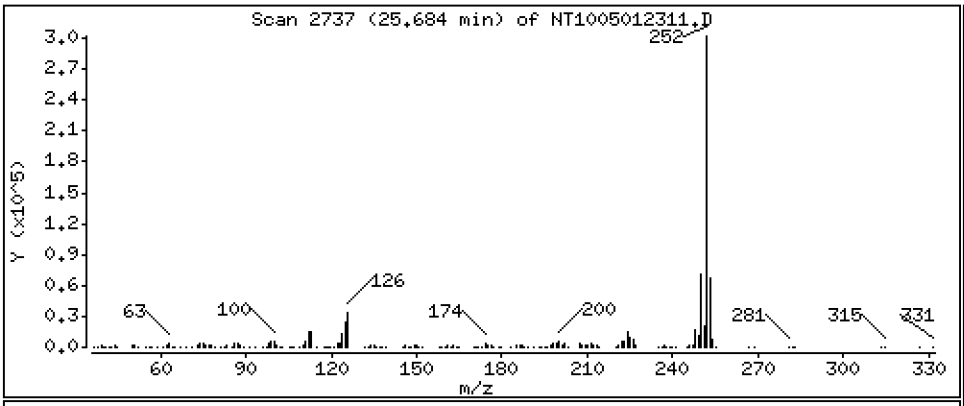
Operator: VTS

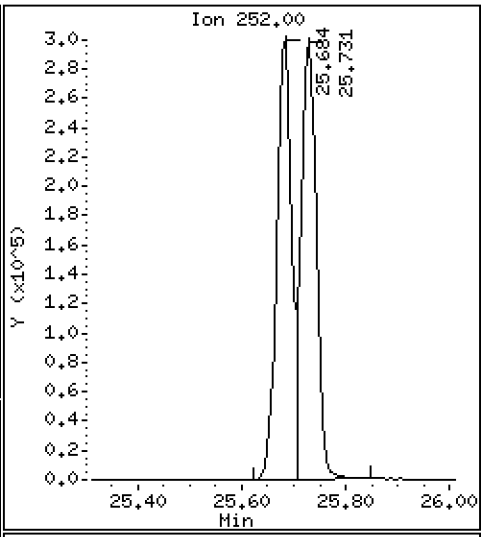
Column phase: ZB-5msi

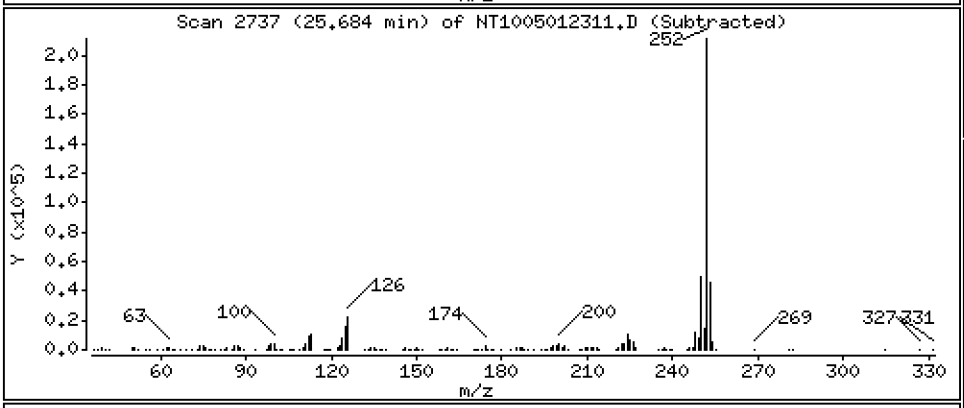
Column diameter: 0.25

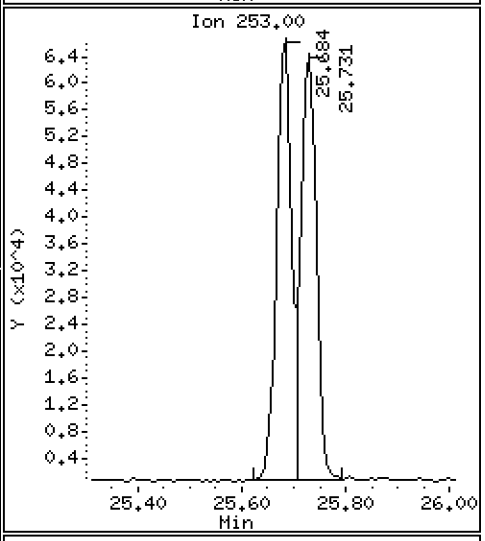
74 Benzo(b)fluoranthene

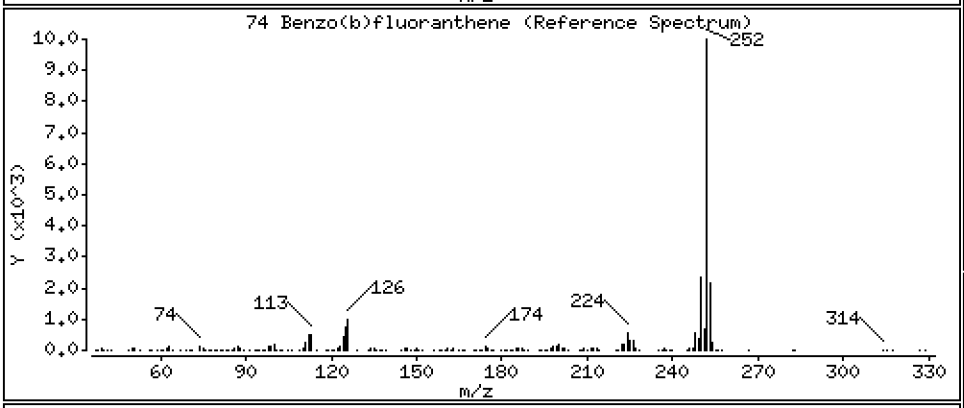
Concentration: 4.785 ug/mL

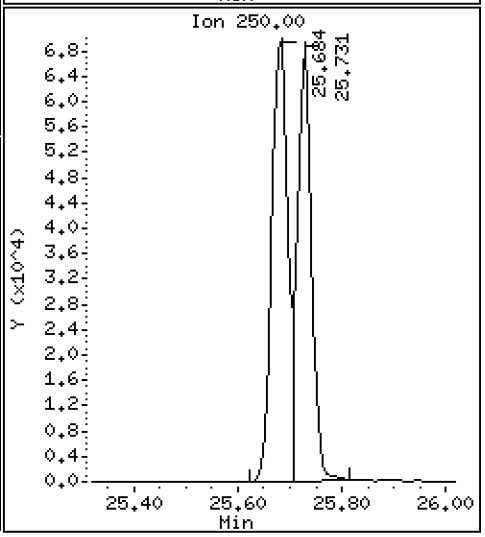


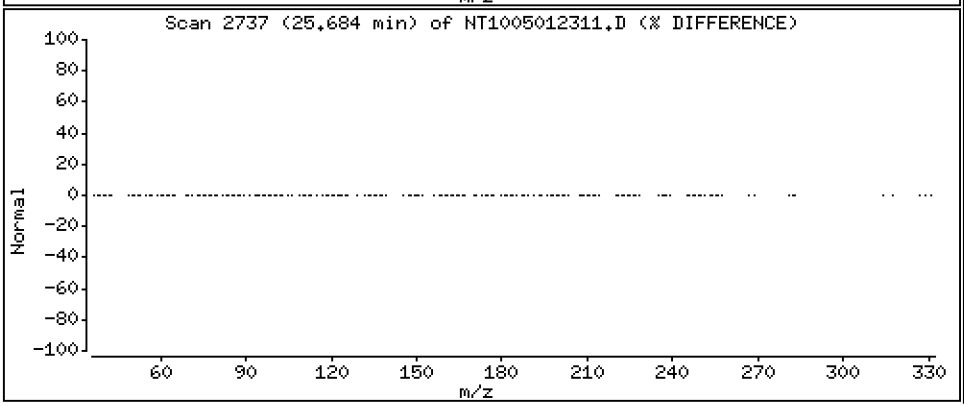












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

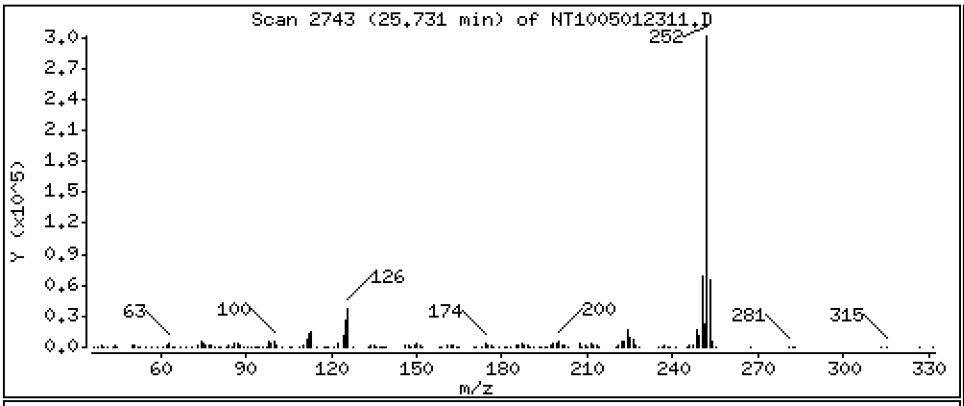
Operator: VTS

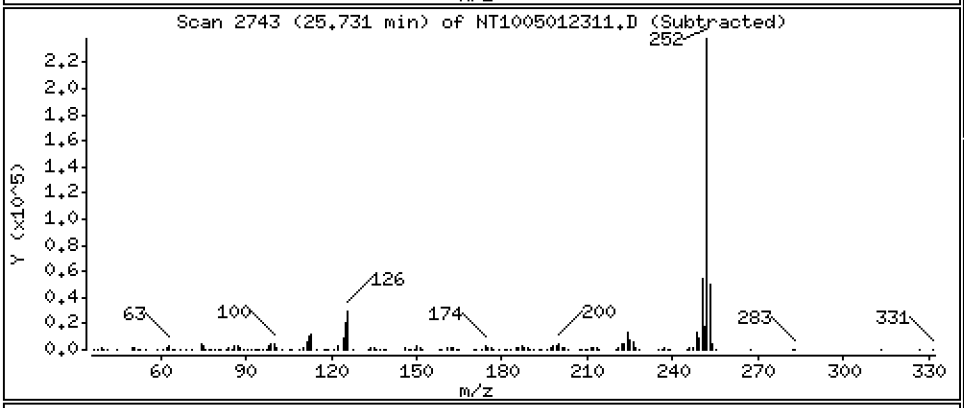
Column phase: ZB-5msi

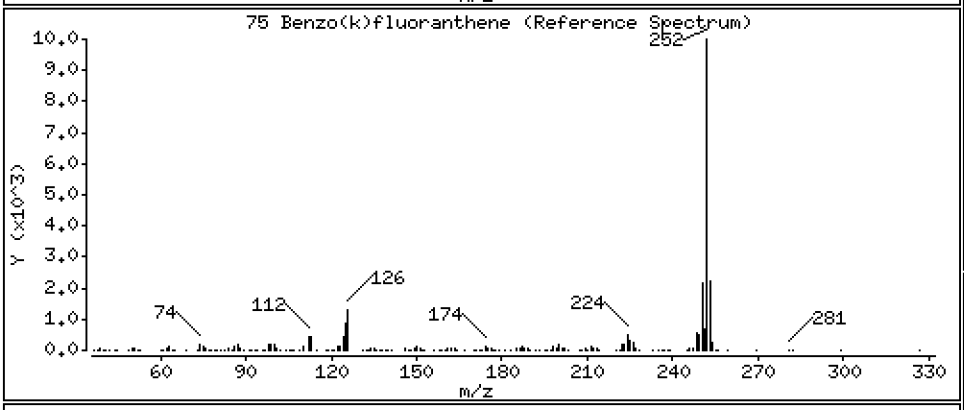
Column diameter: 0.25

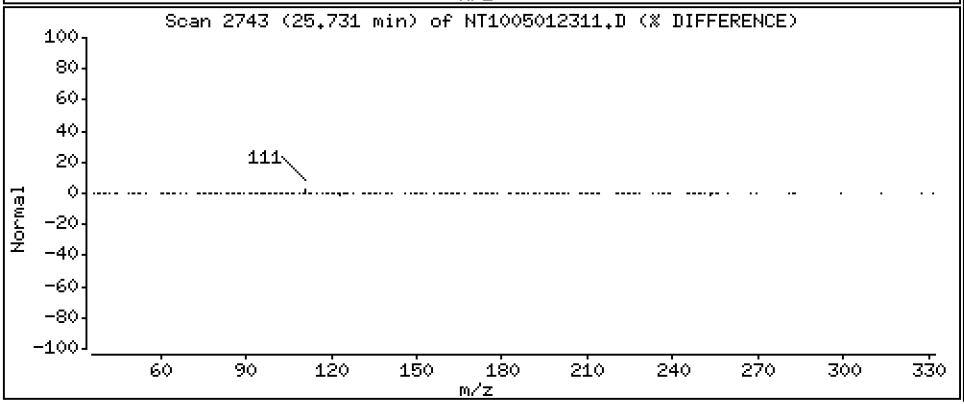
75 Benzo(k)fluoranthene

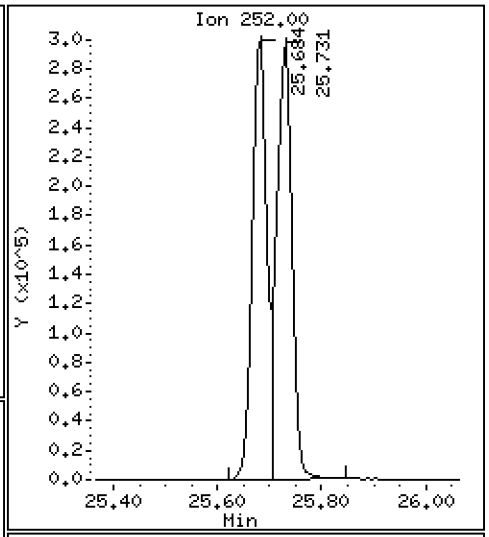
Concentration: 4.457 ug/mL

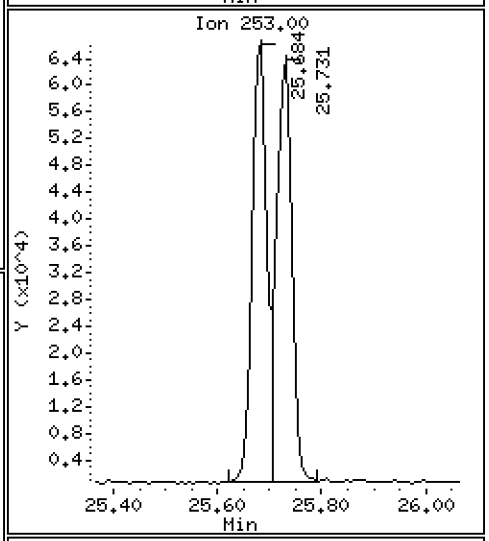


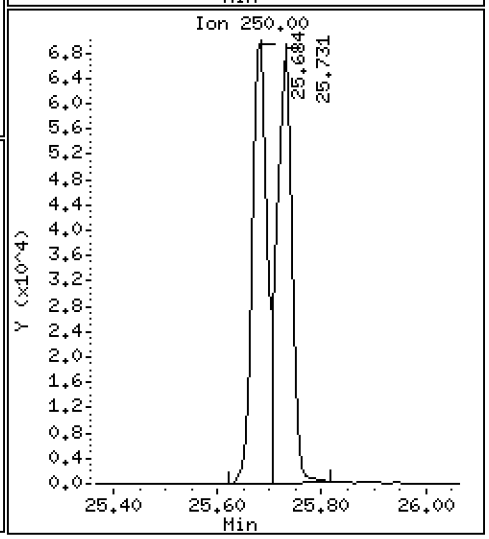












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

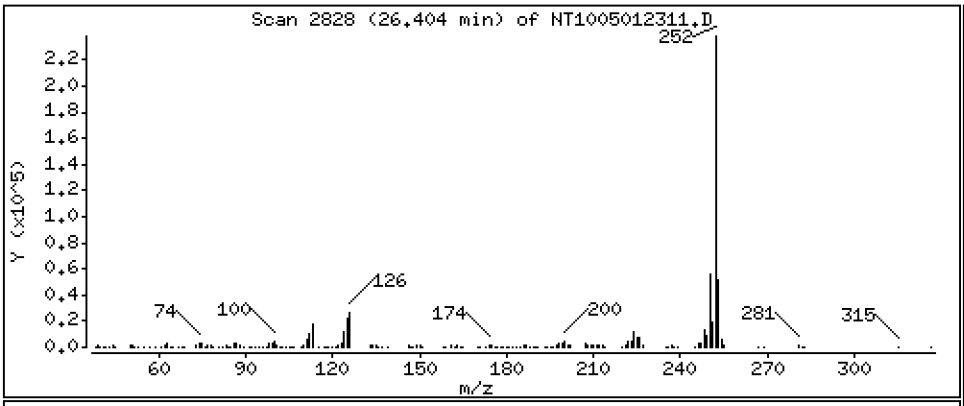
Operator: VTS

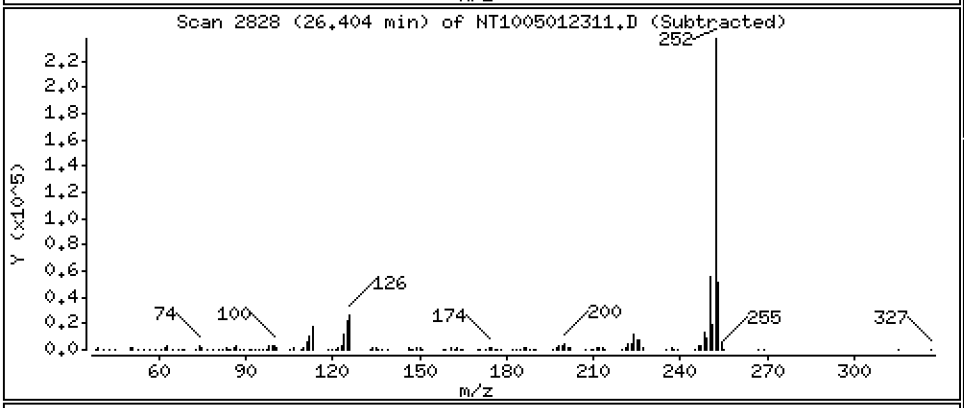
Column phase: ZB-5msi

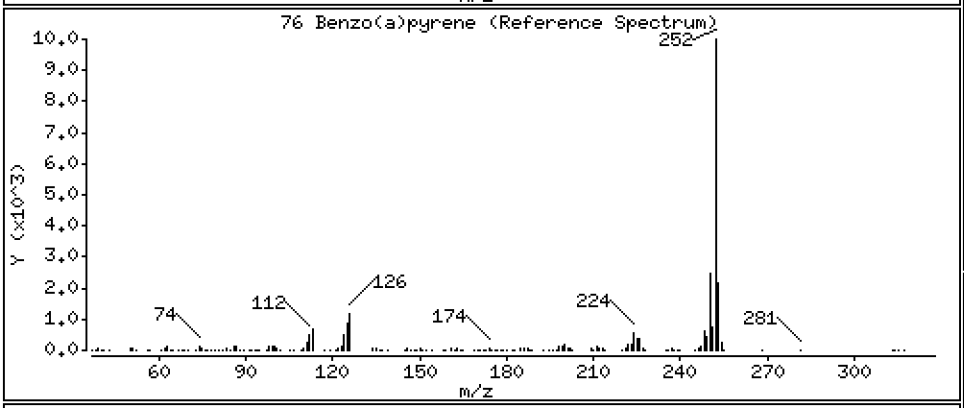
Column diameter: 0.25

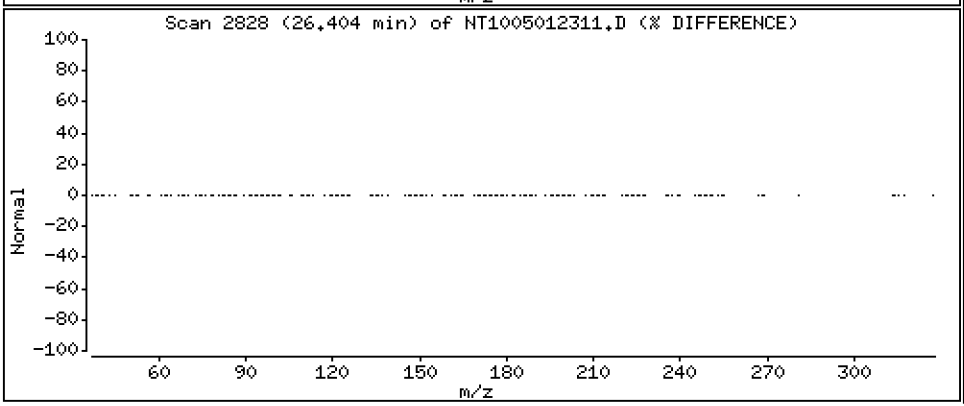
76 Benzo(a)pyrene

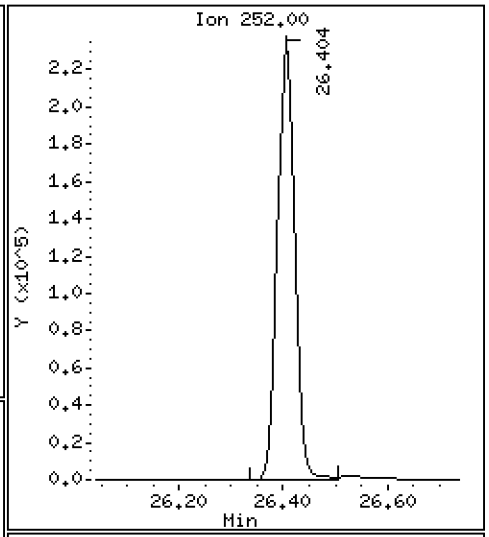
Concentration: 4.787 ug/mL

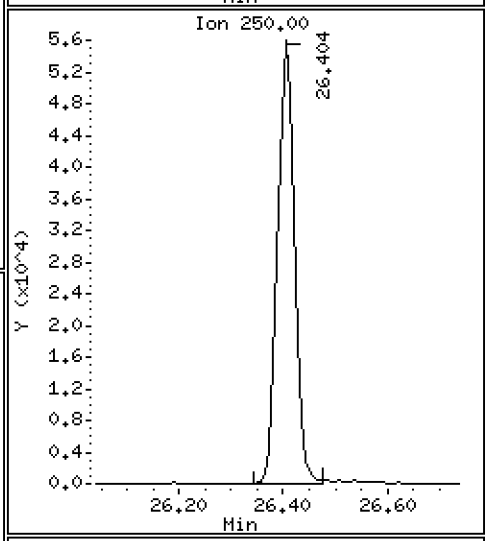


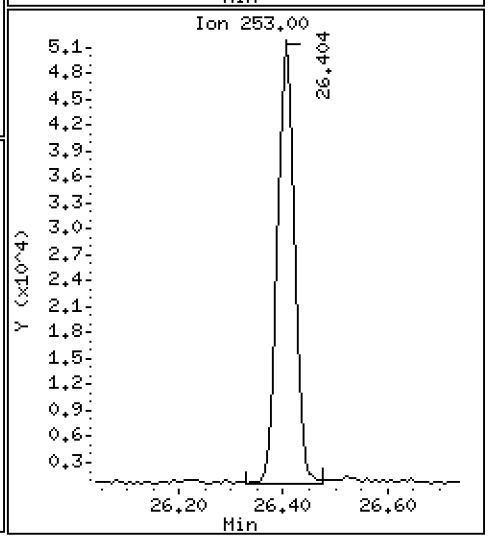












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

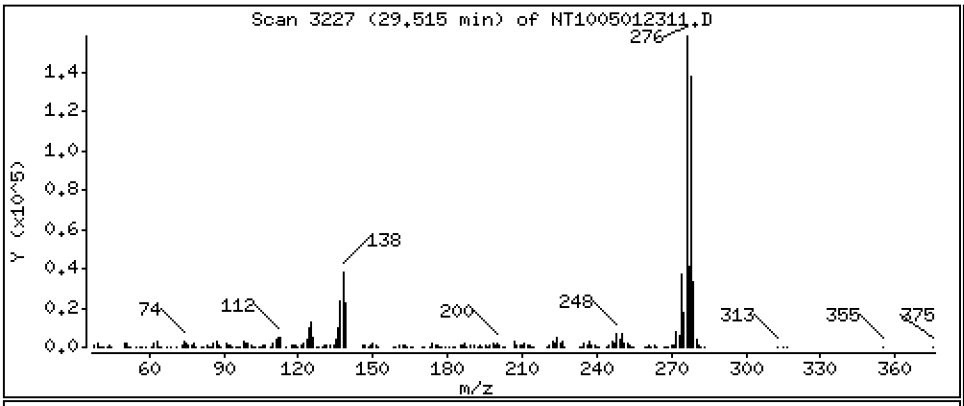
Operator: VTS

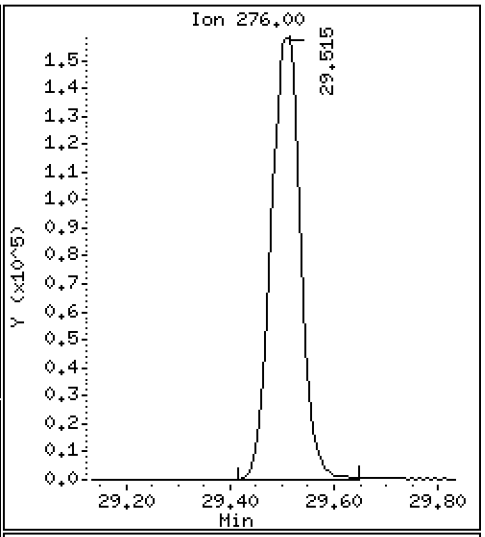
Column phase: ZB-5msi

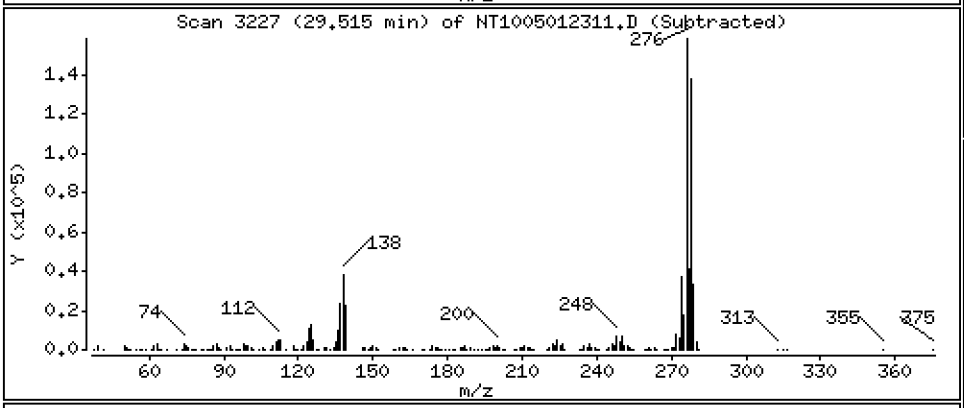
Column diameter: 0.25

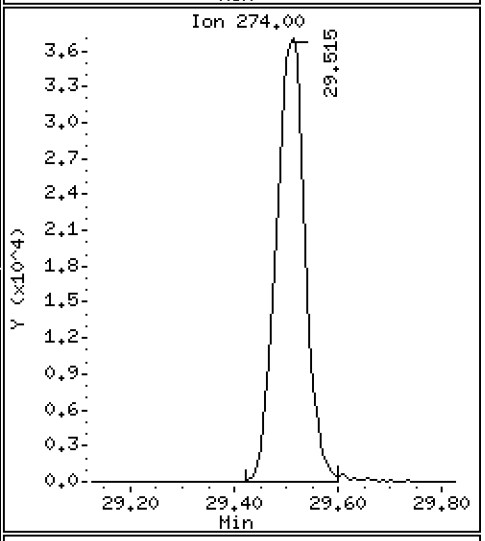
78 Indeno(1,2,3-cd)pyrene

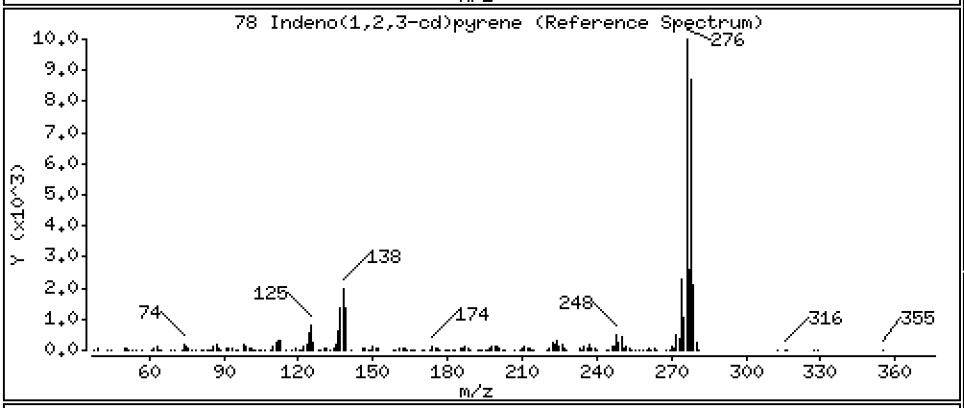
Concentration: 4.677 ug/mL

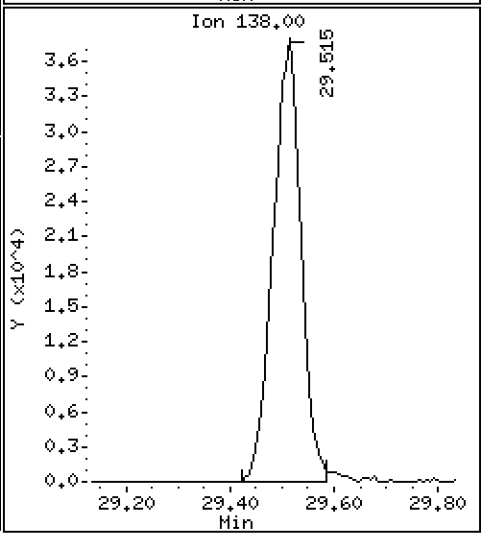


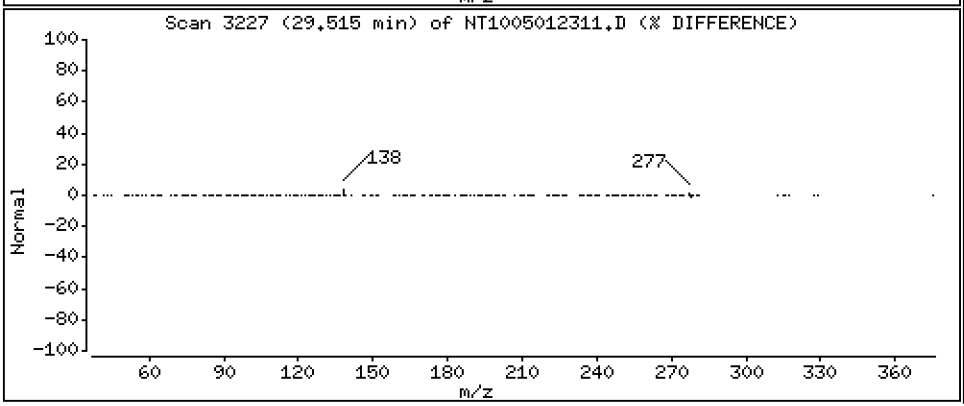












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

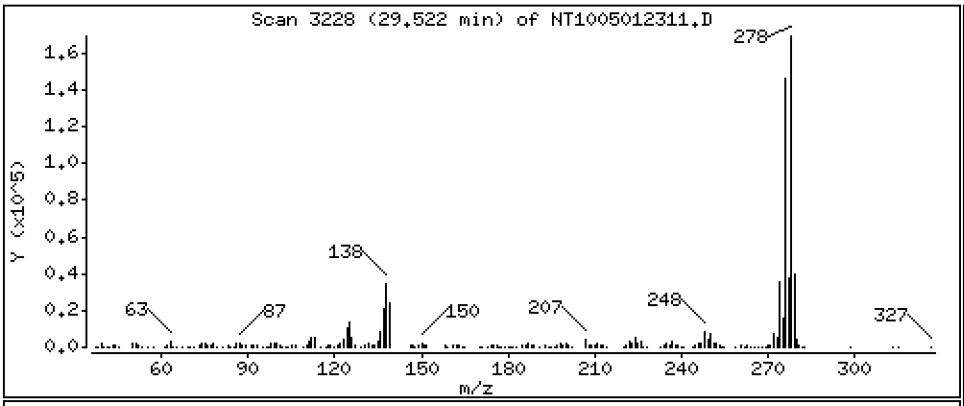
Operator: VTS

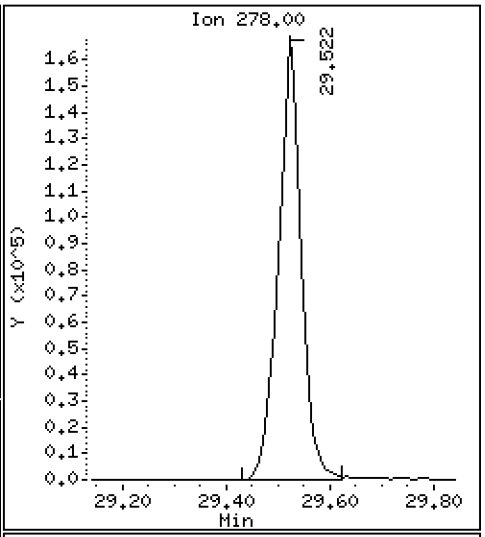
Column phase: ZB-5msi

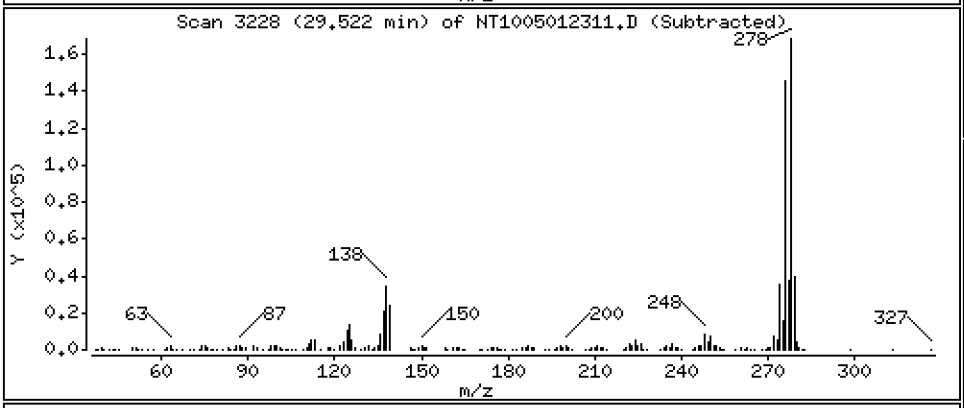
Column diameter: 0.25

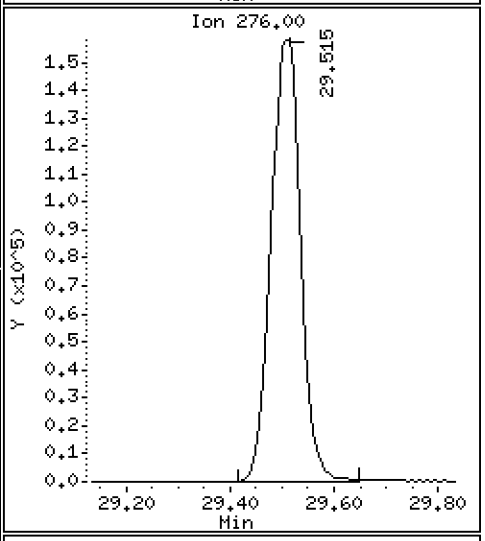
79 Dibenzo(a,h)anthracene

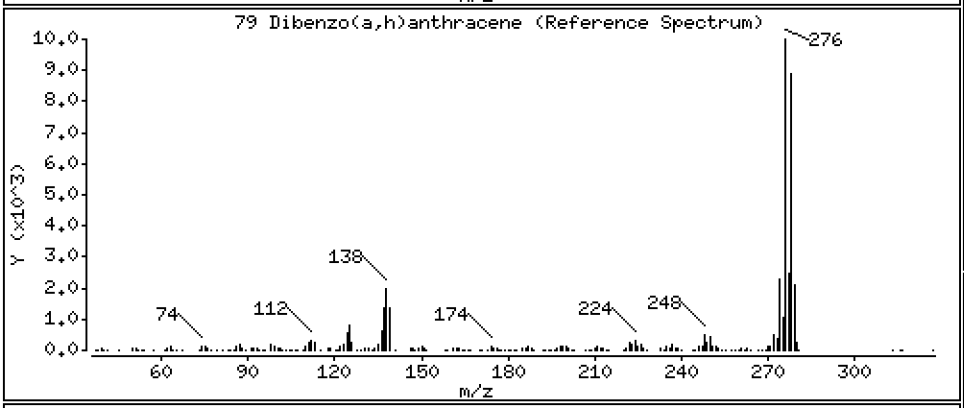
Concentration: 4.649 ug/mL

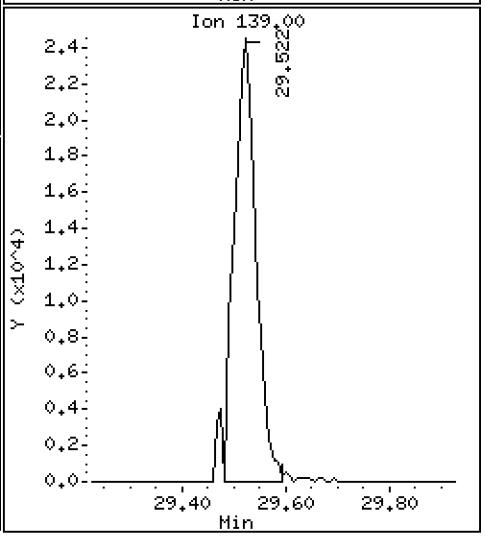


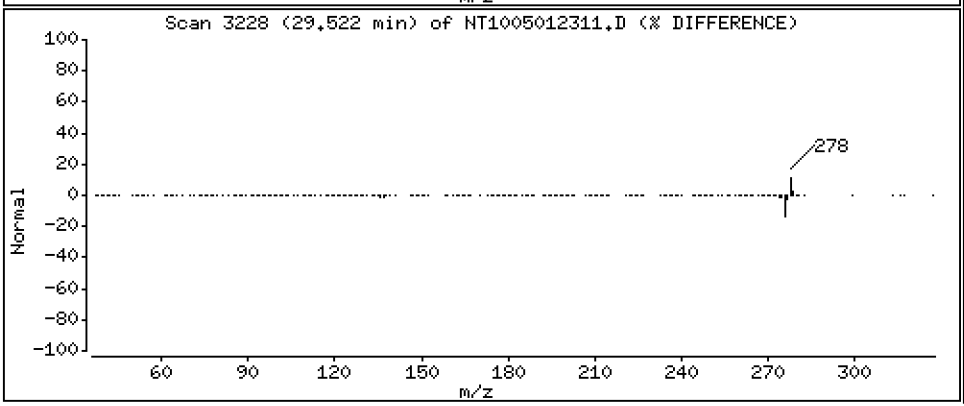












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

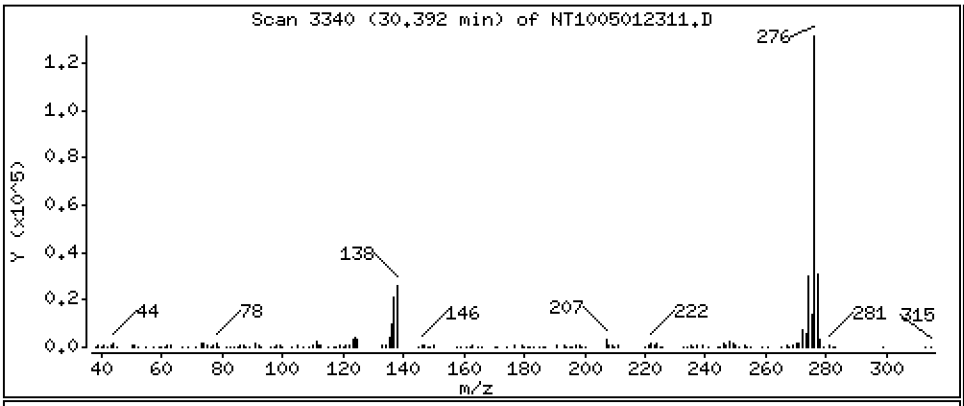
Operator: VTS

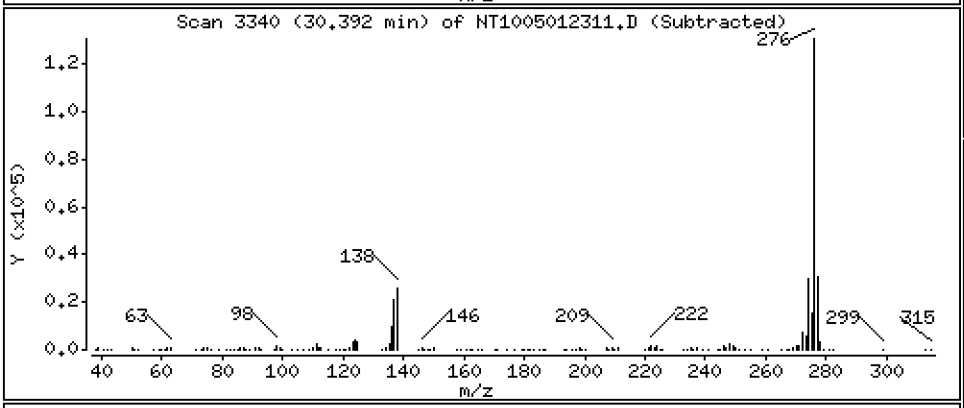
Column phase: ZB-5msi

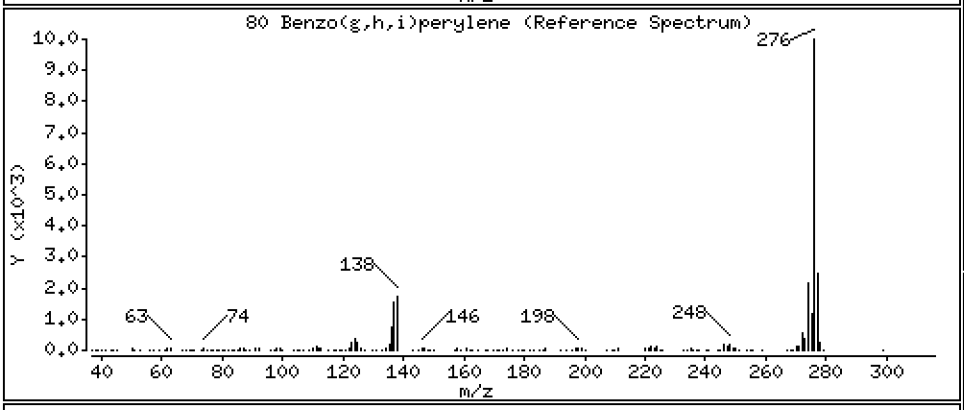
Column diameter: 0.25

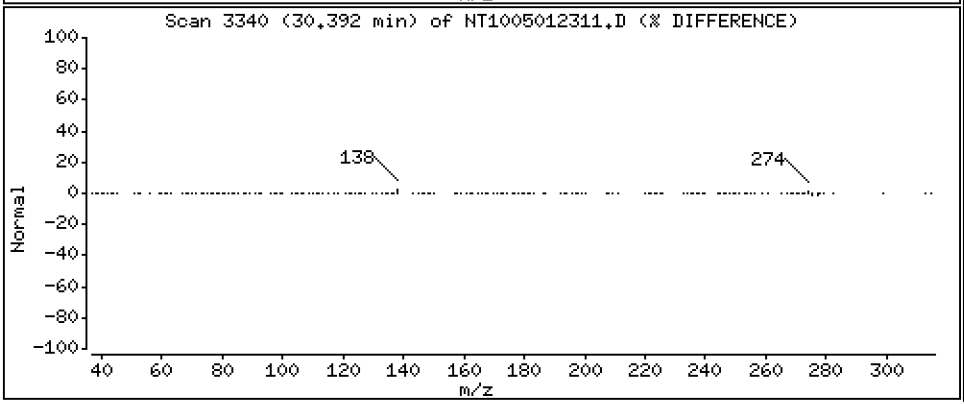
80 Benzo(g,h,i)perylene

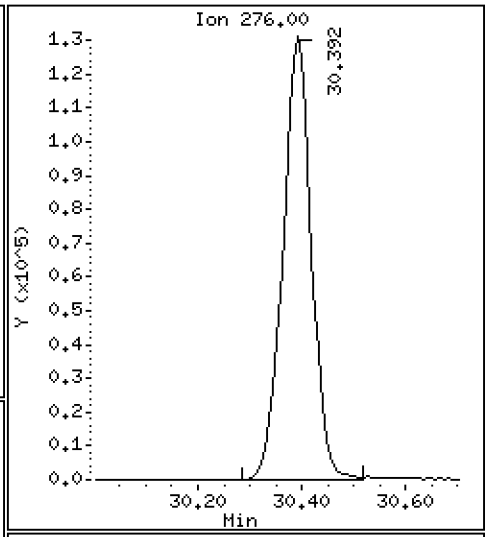
Concentration: 4.659 ug/mL

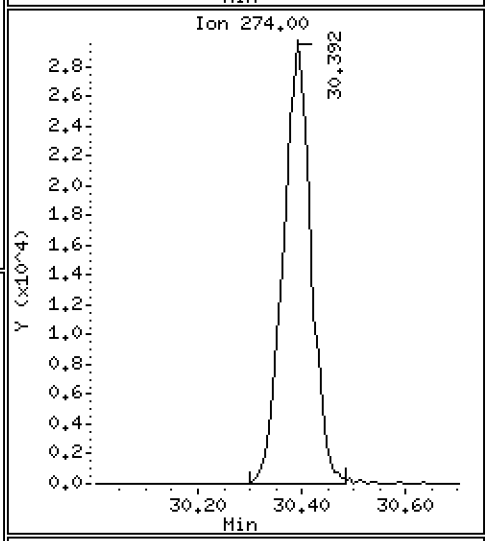


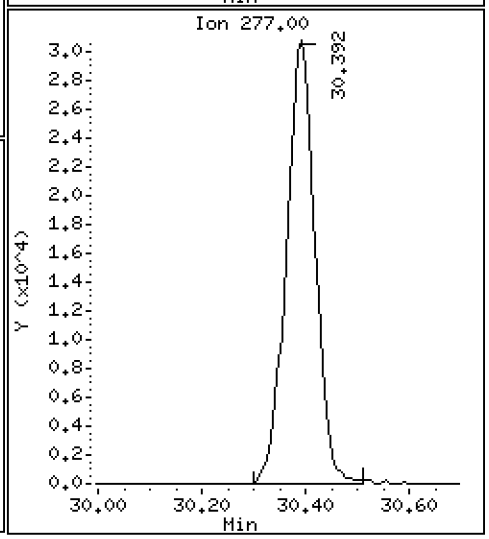












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

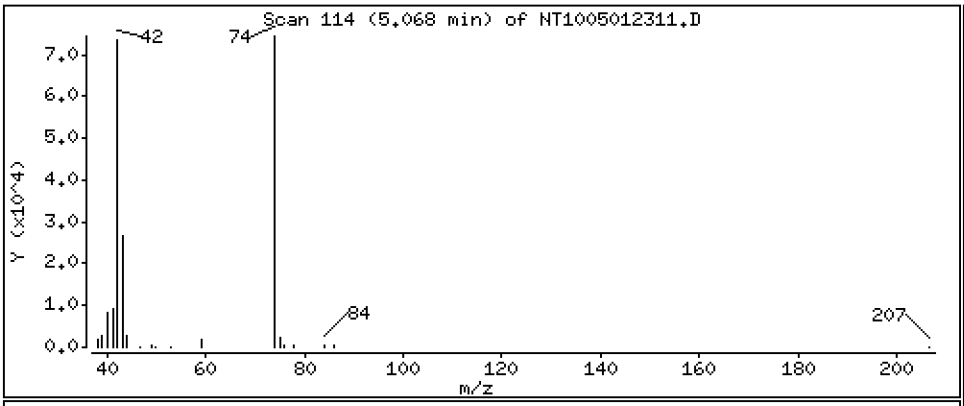
Operator: VTS

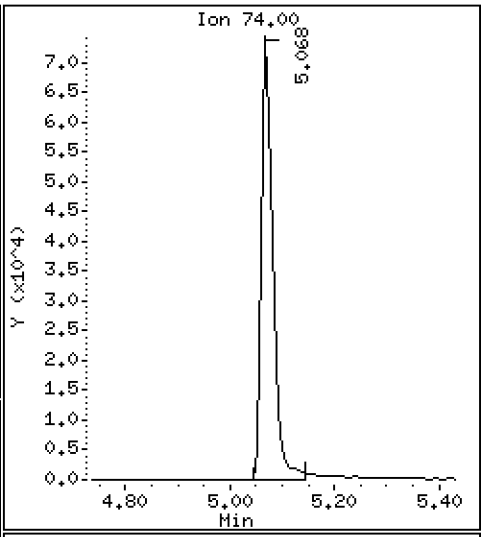
Column phase: ZB-5msi

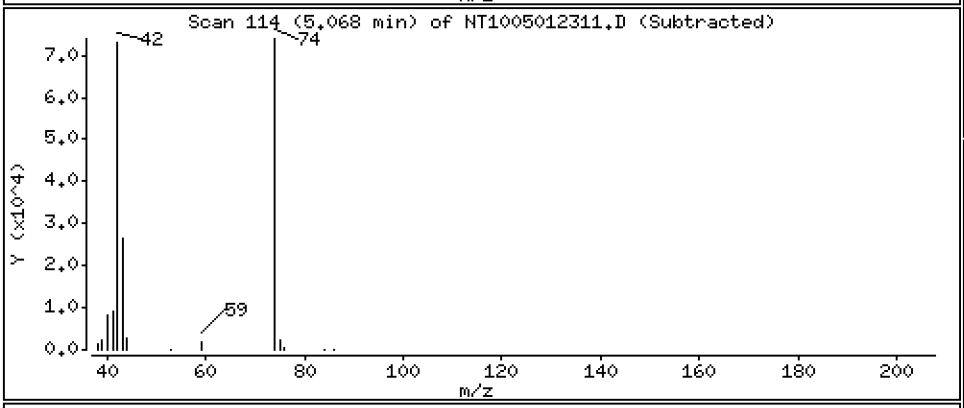
Column diameter: 0.25

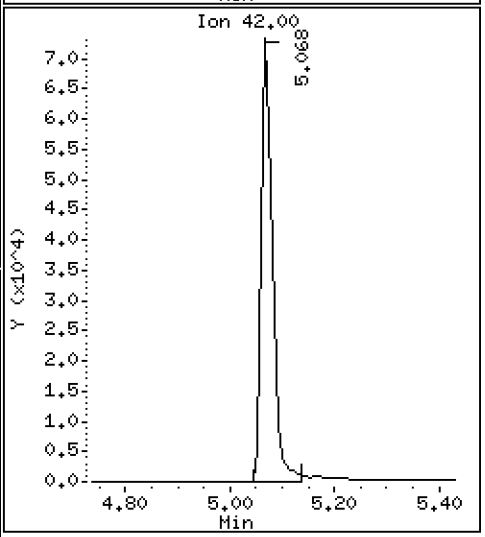
90 N-Nitrosodimethylamine

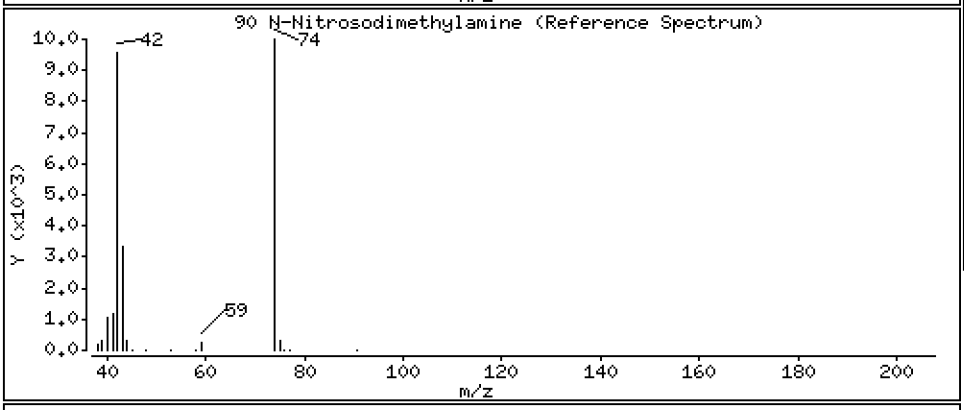
Concentration: 5.190 ug/mL

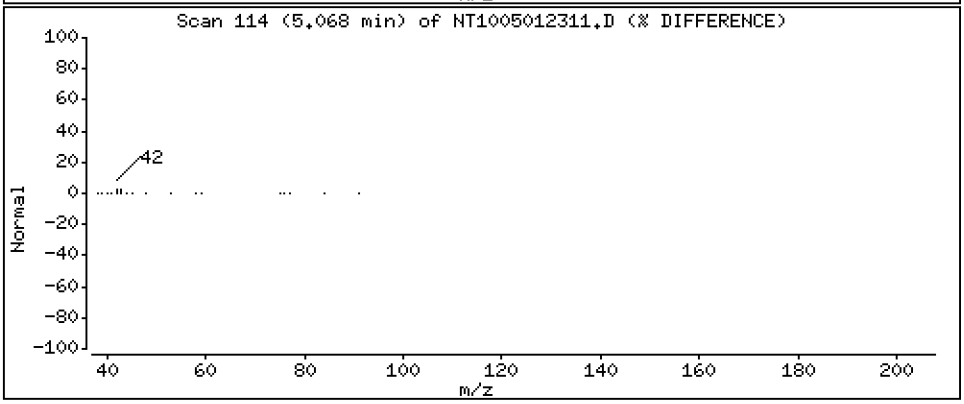












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

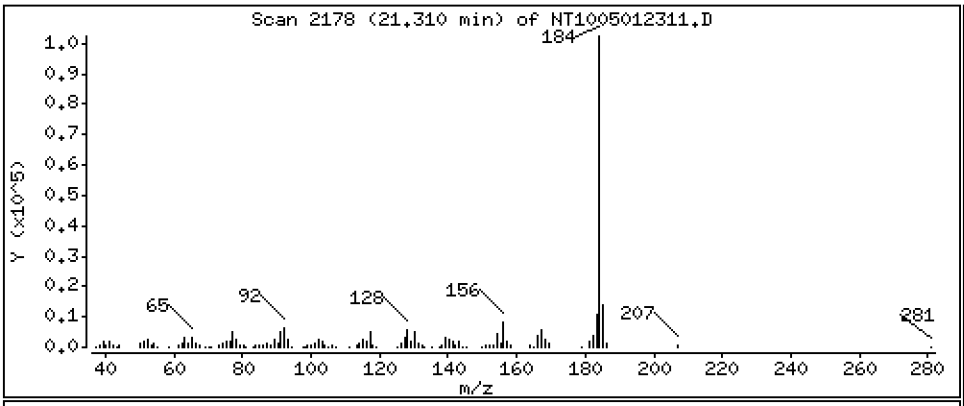
Operator: VTS

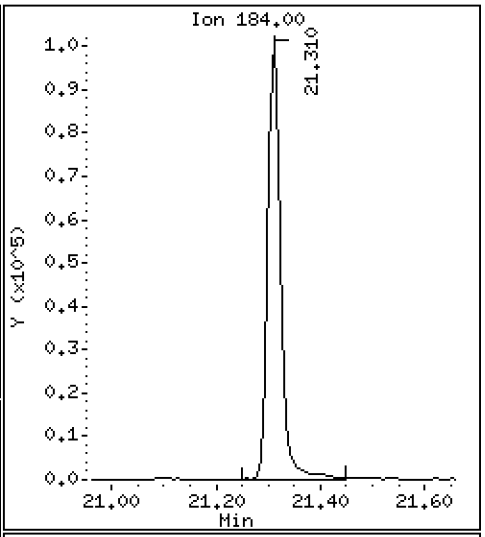
Column phase: ZB-5msi

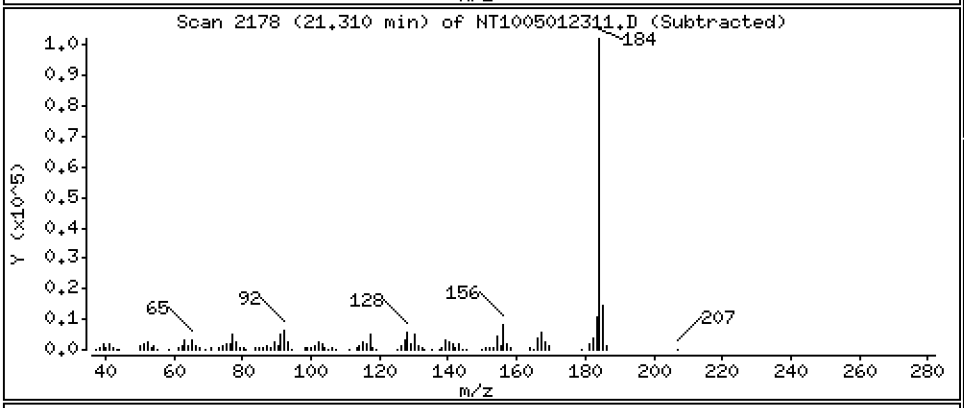
Column diameter: 0.25

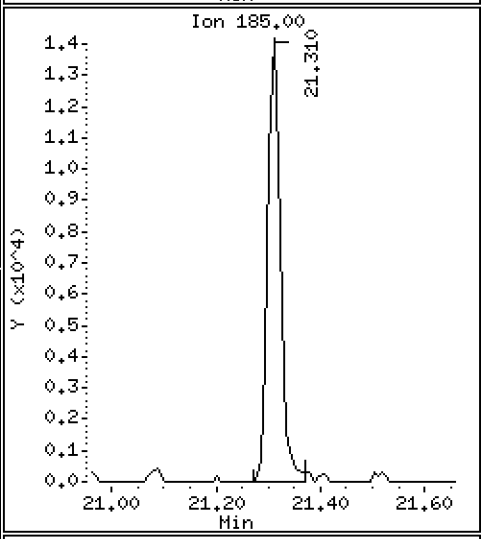
93 Benzidine

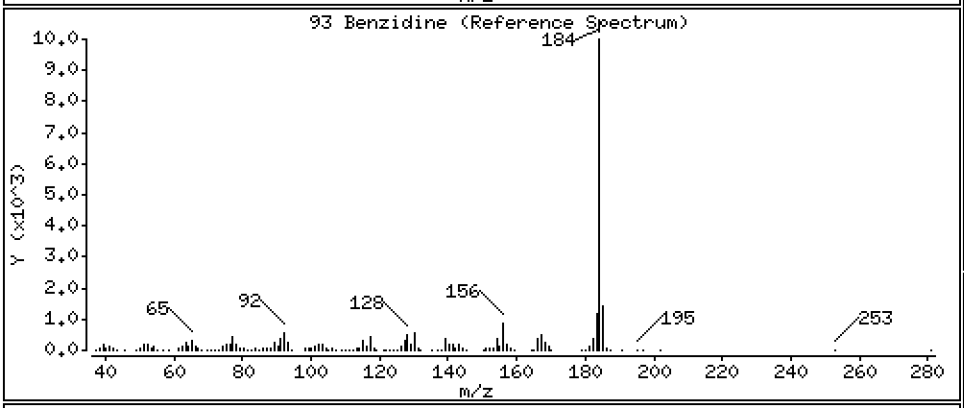
Concentration: 2.801 ug/mL

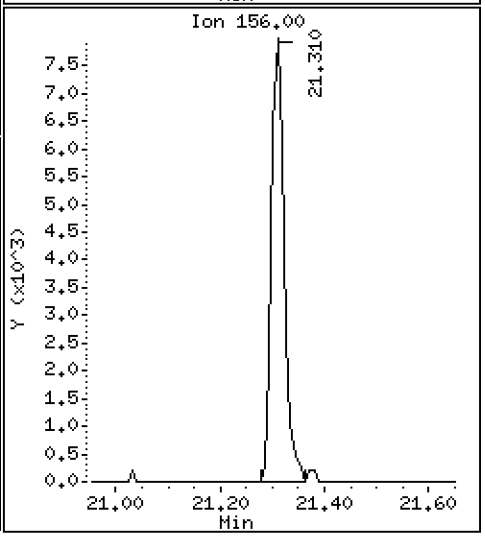


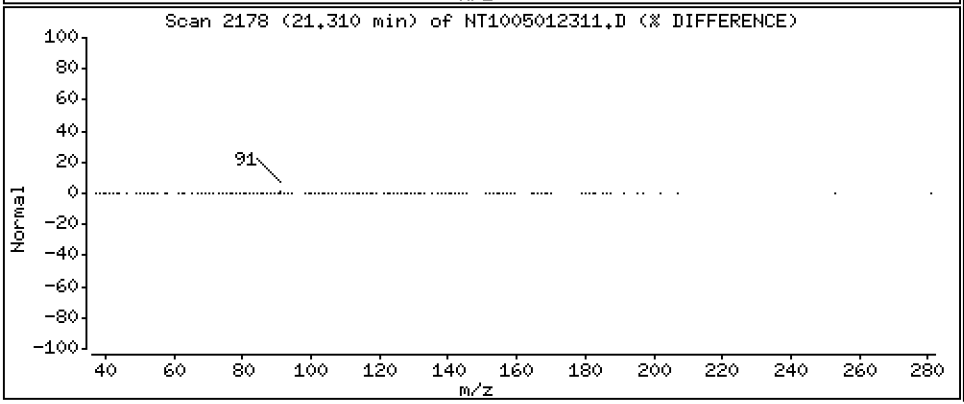












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

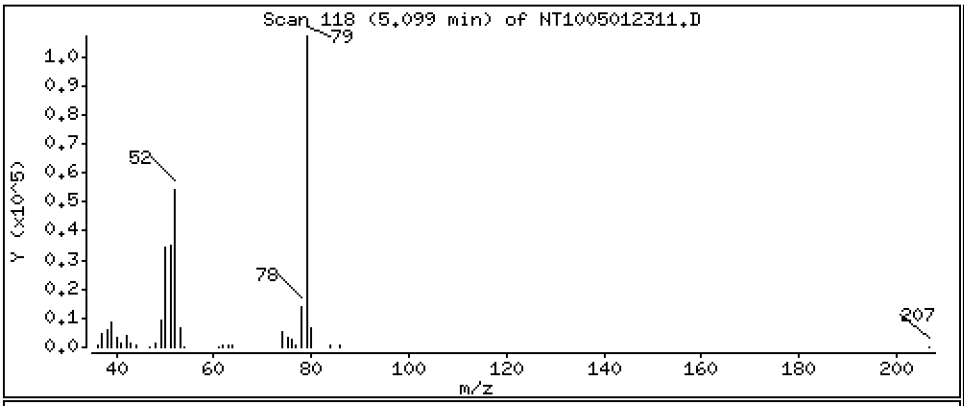
Operator: VTS

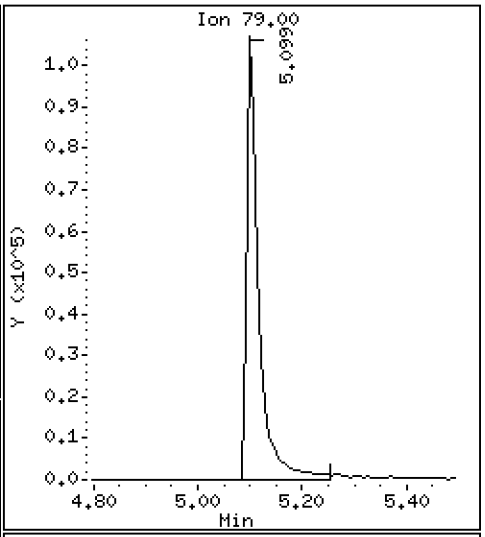
Column phase: ZB-5msi

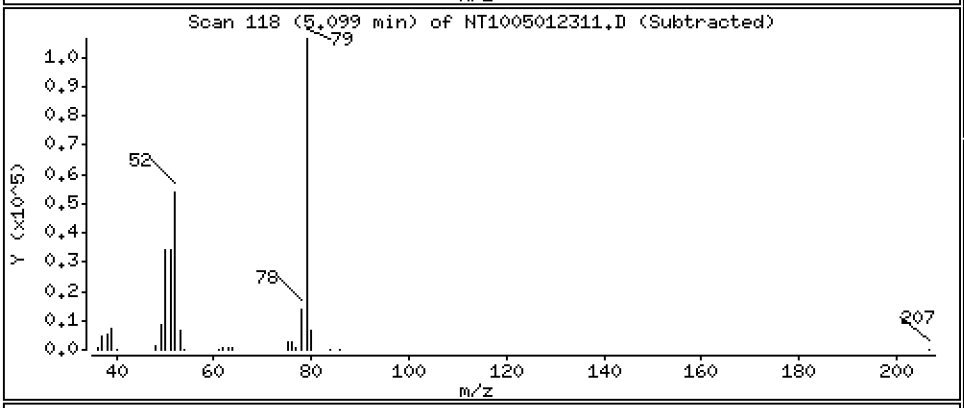
Column diameter: 0.25

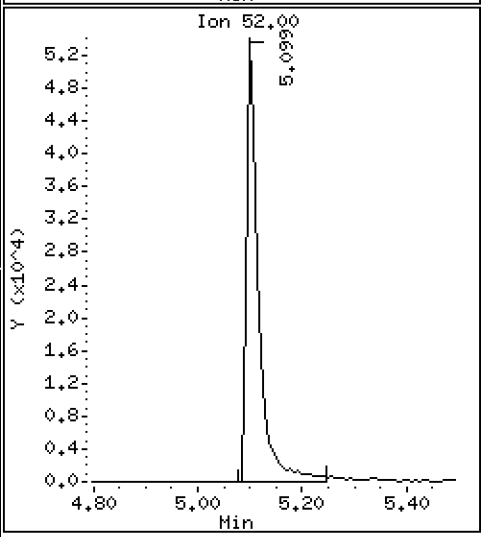
103 Pyridine

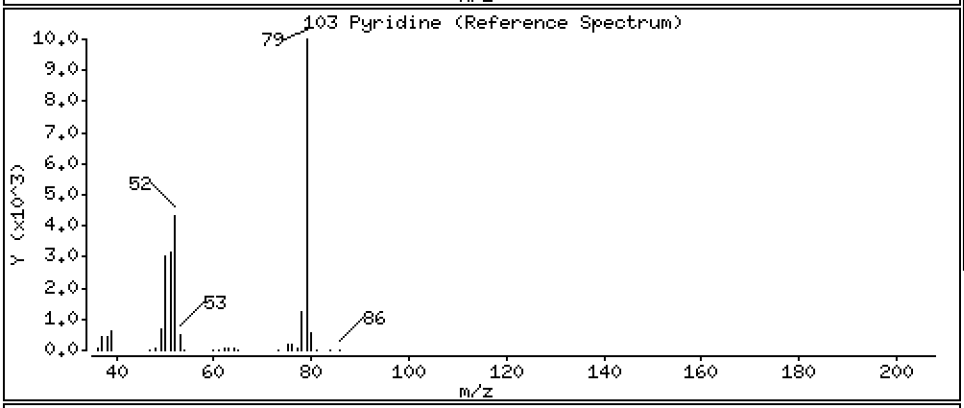
Concentration: 5.329 ug/mL

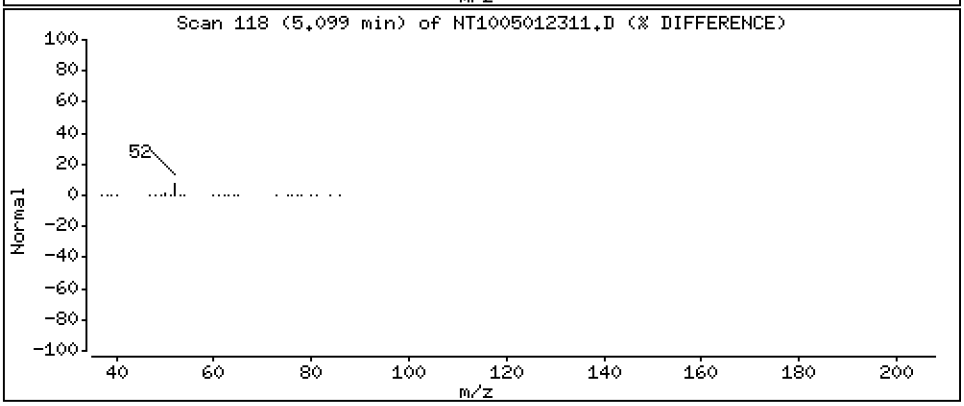












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

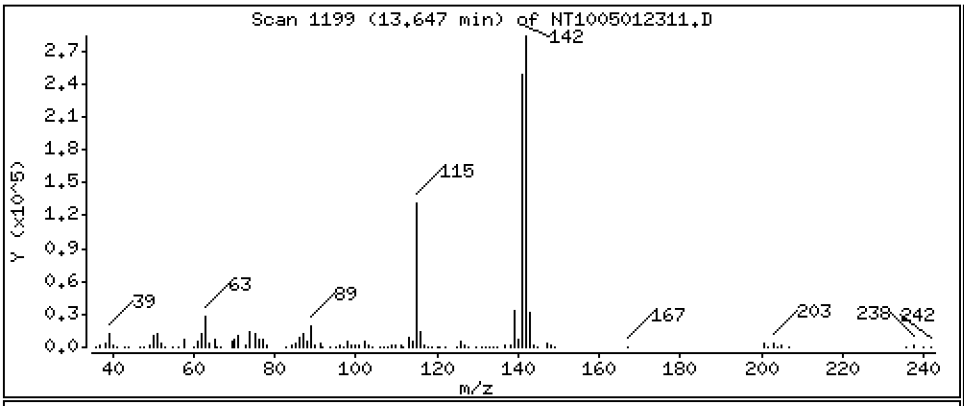
Operator: VTS

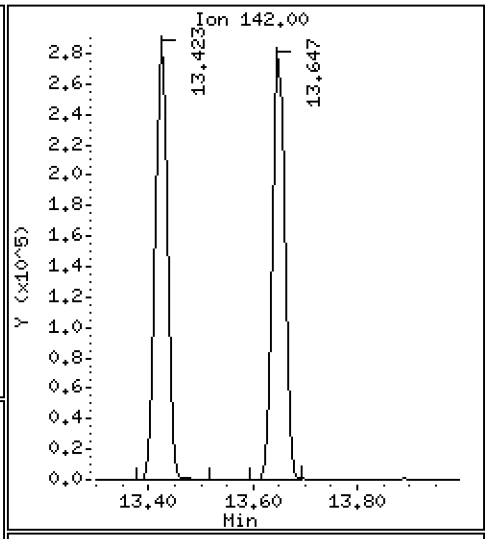
Column phase: ZB-5msi

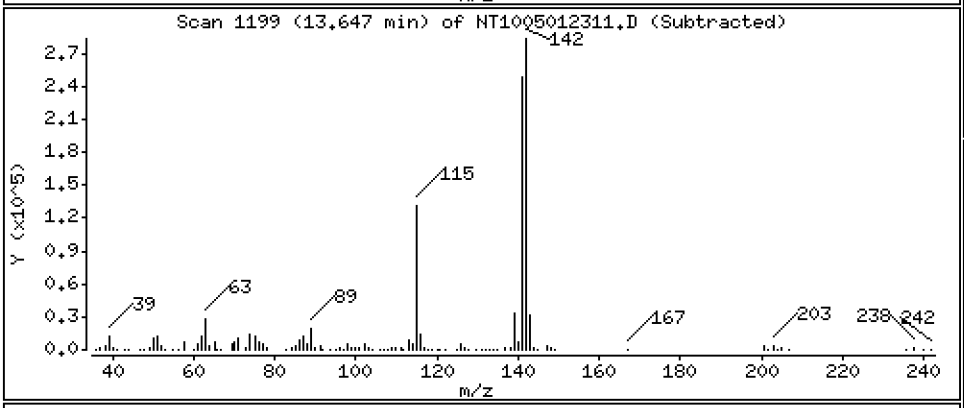
Column diameter: 0.25

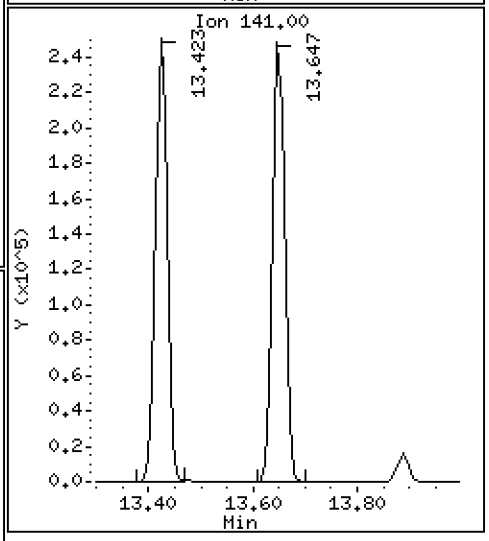
105 1-methylnaphthalene

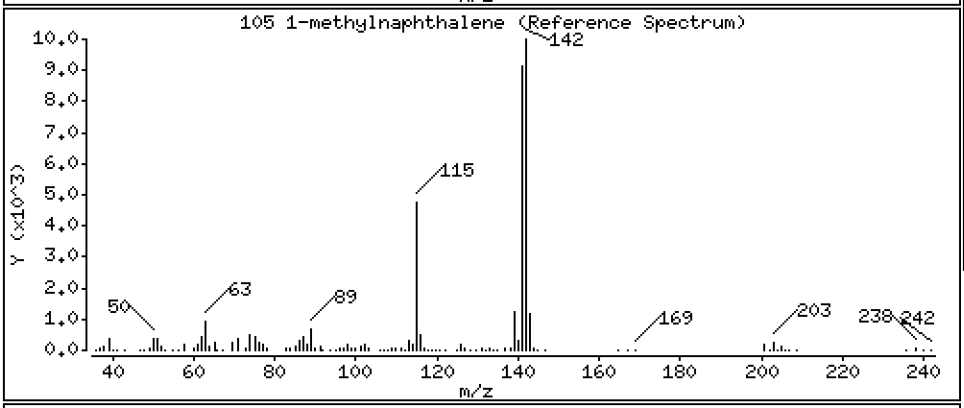
Concentration: 4.835 ug/mL

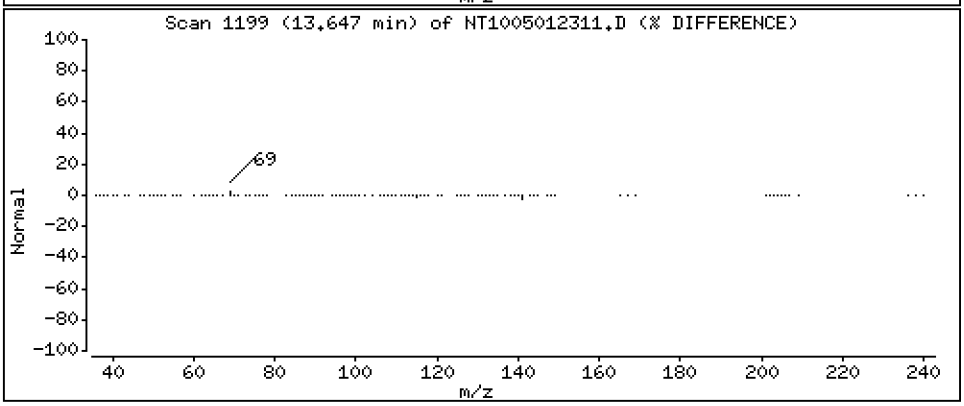












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

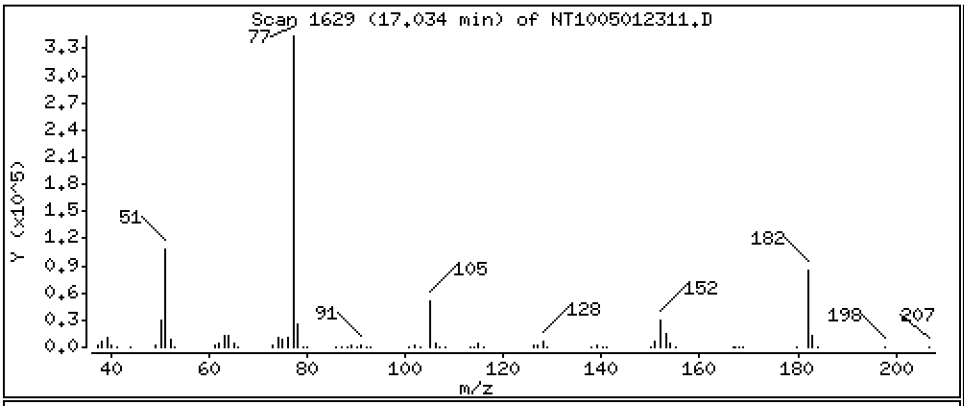
Operator: VTS

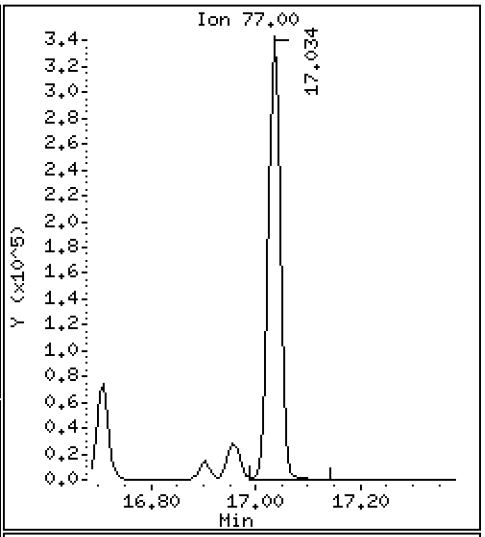
Column phase: ZB-5msi

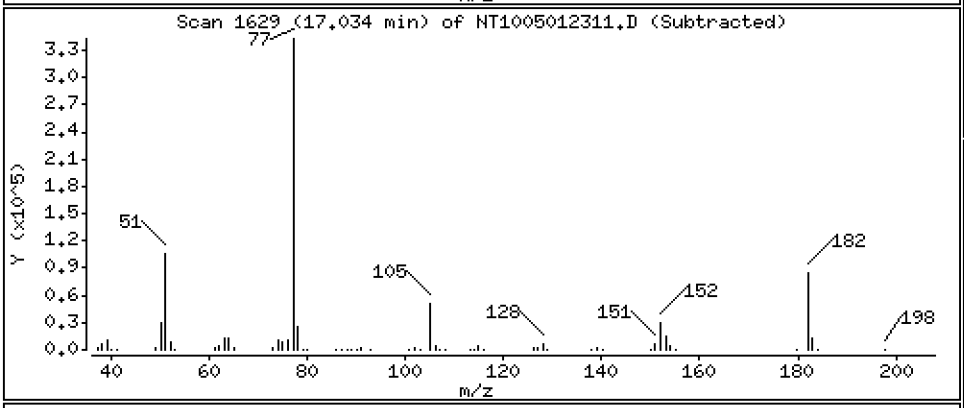
Column diameter: 0.25

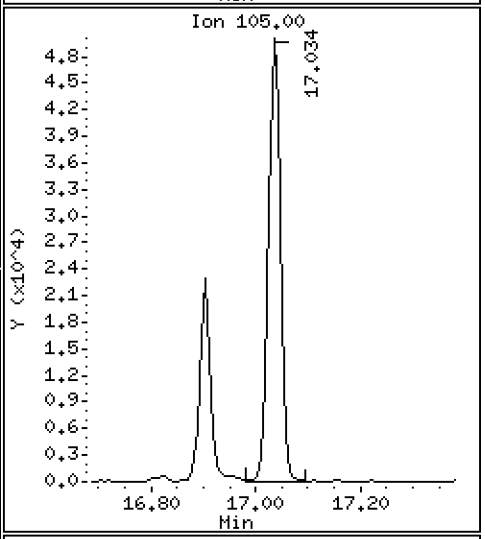
111 Azobenzene (1,2-DP-Hydrazine)

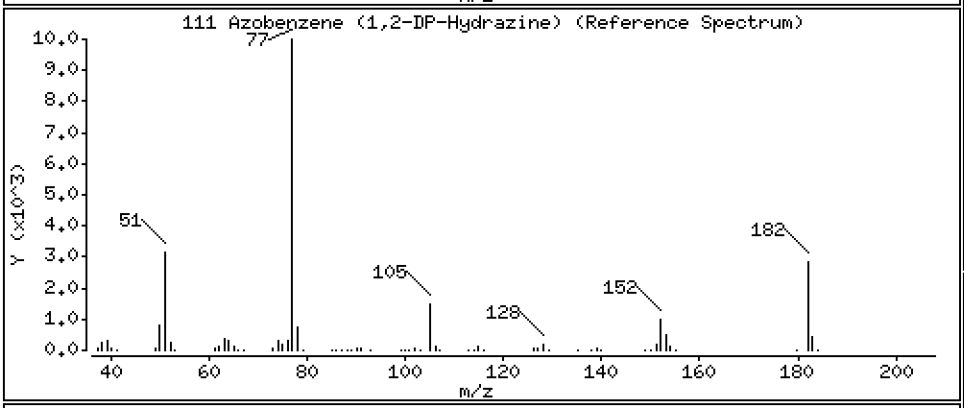
Concentration: 5.141 ug/mL

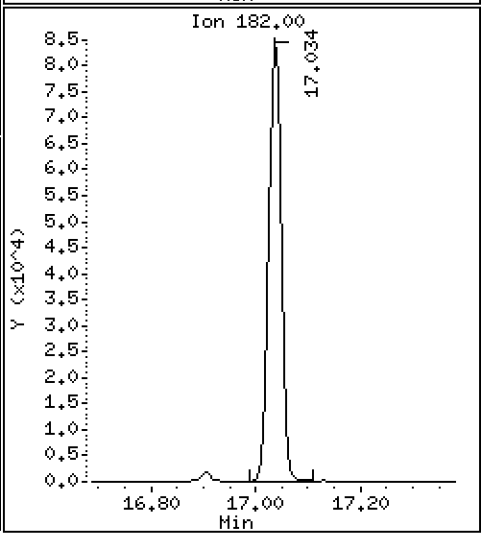


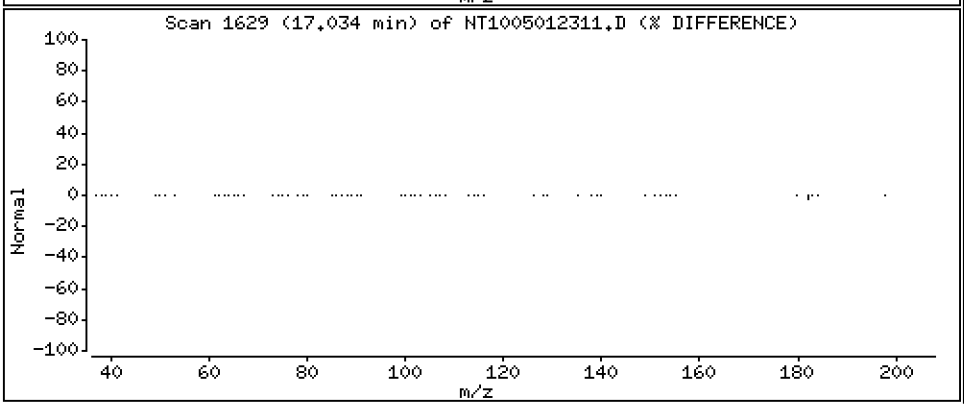












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

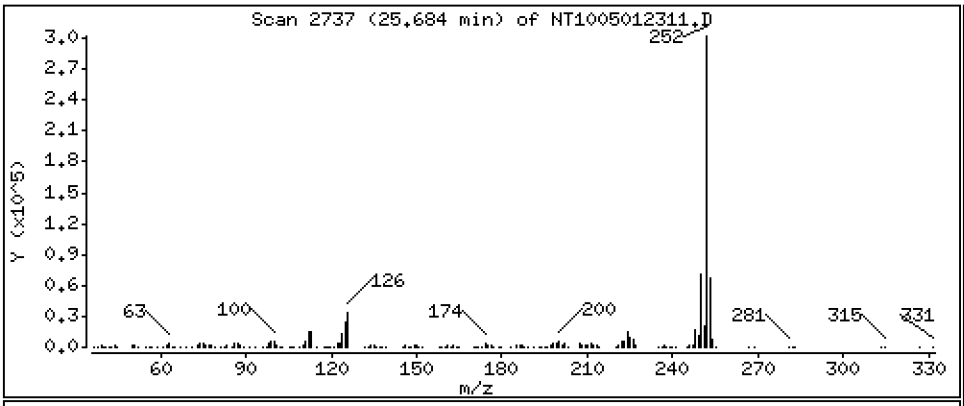
Operator: VTS

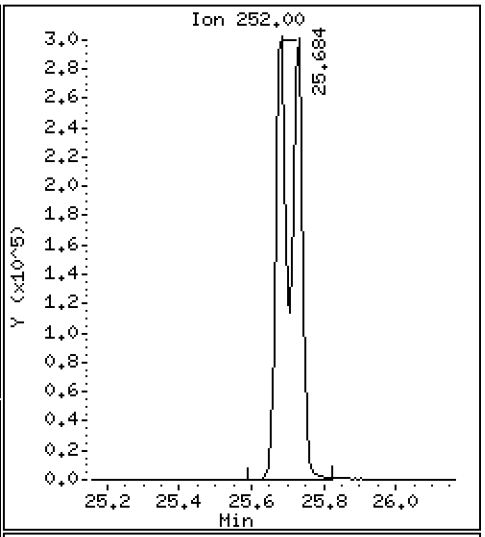
Column phase: ZB-5msi

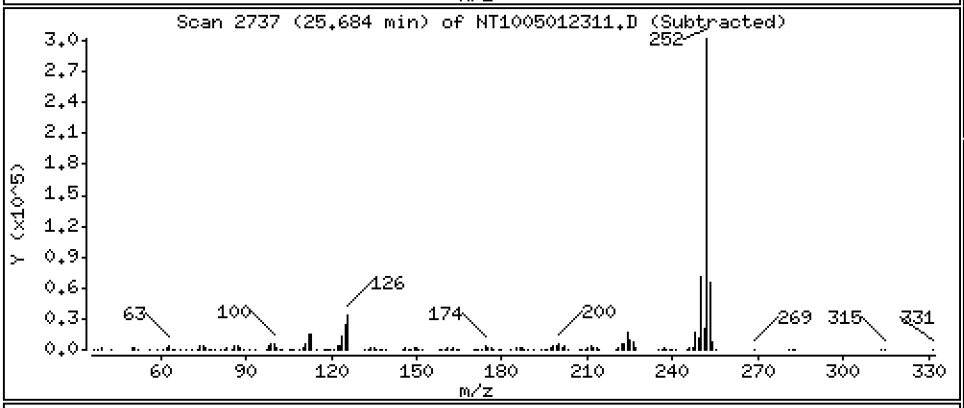
Column diameter: 0.25

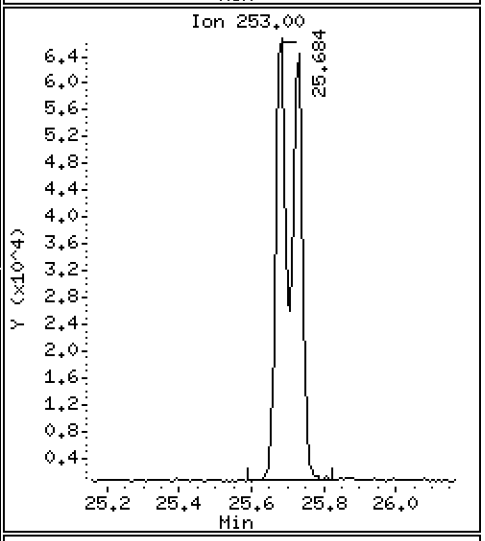
187 Total Benzofluoranthenes

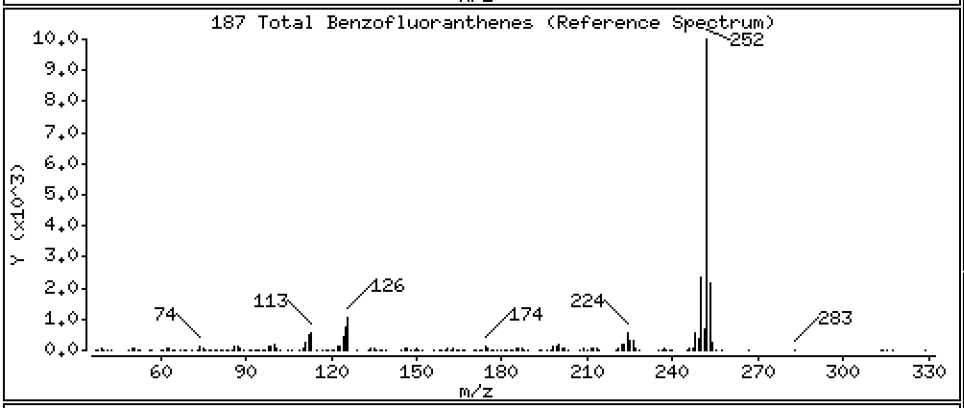
Concentration: 9.184 ug/mL

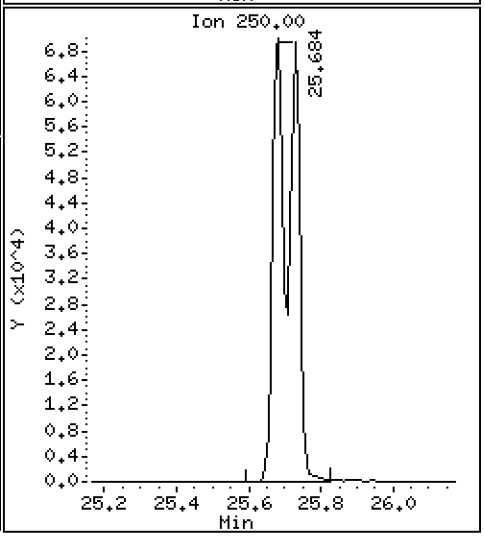


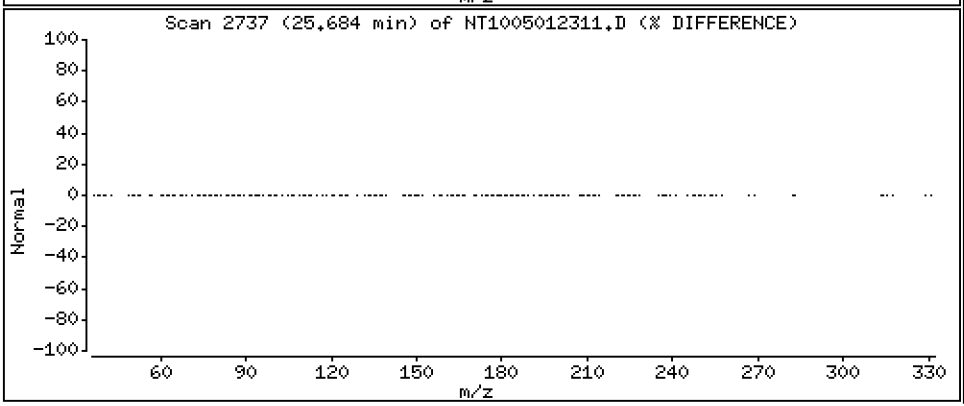












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

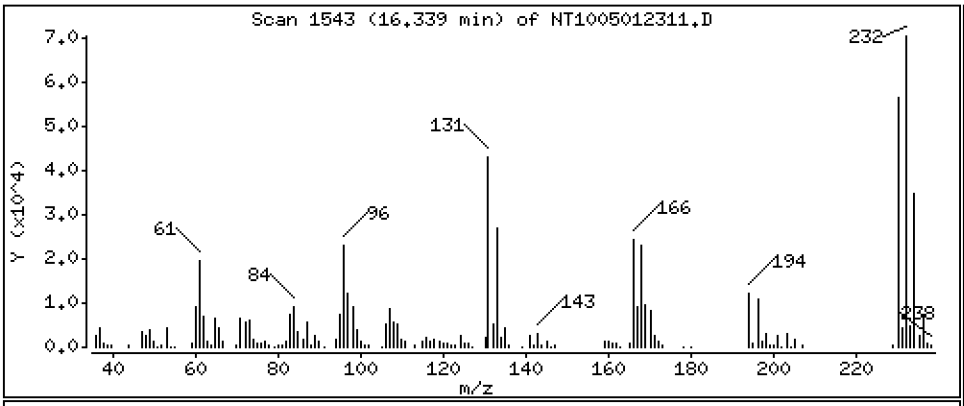
Operator: VTS

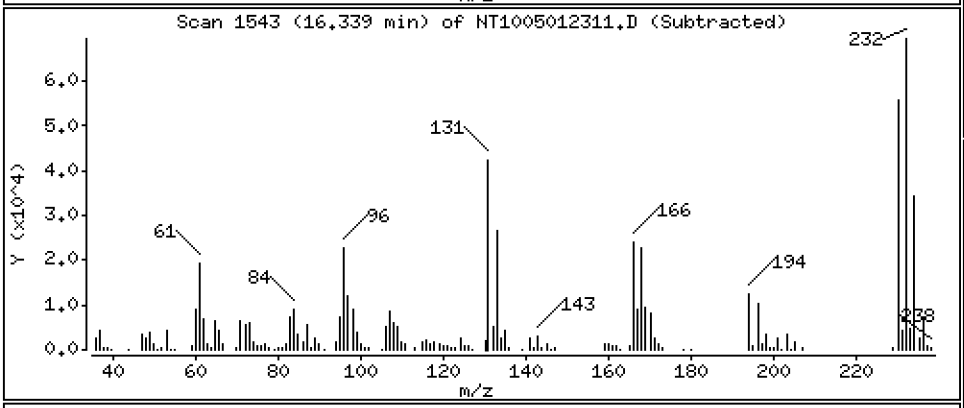
Column phase: ZB-5msi

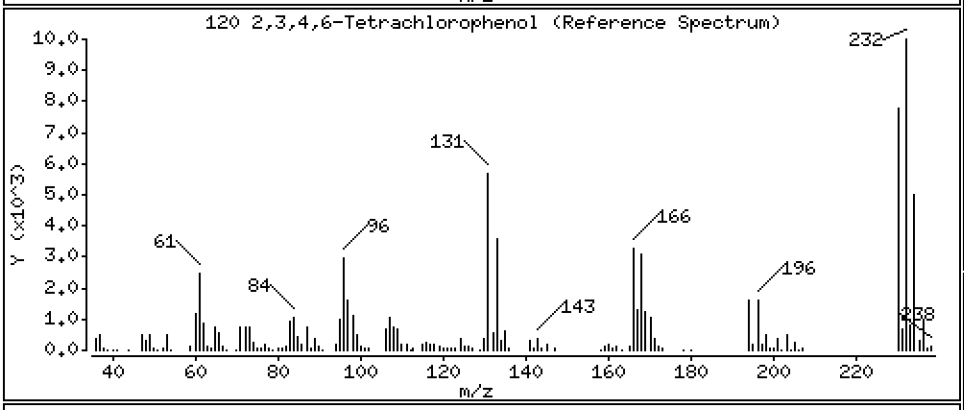
Column diameter: 0.25

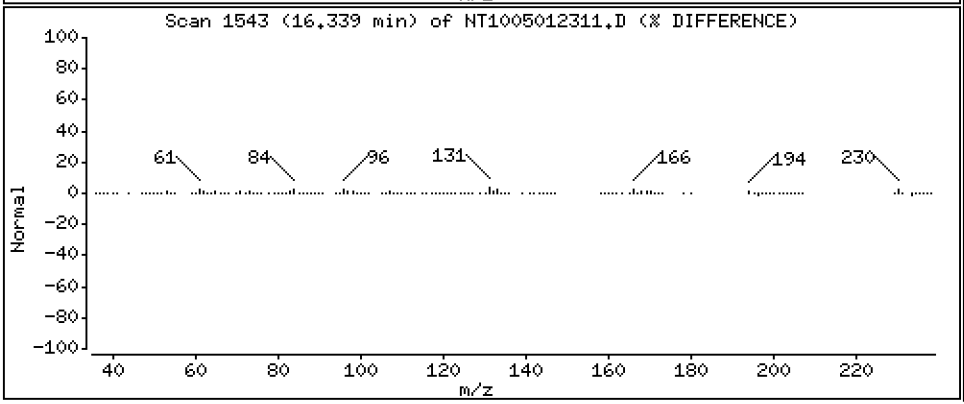
120 2,3,4,6-Tetrachlorophenol

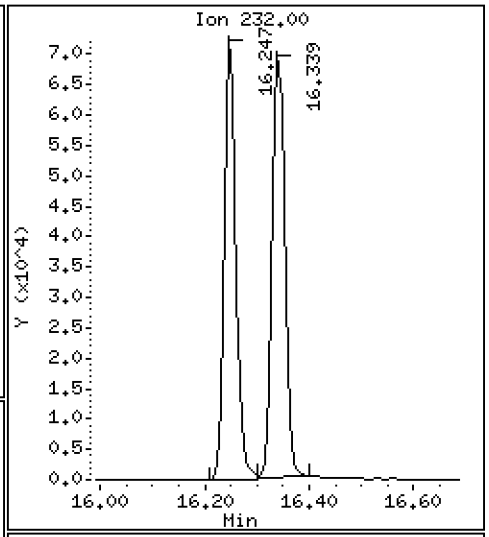
Concentration: 3.253 ug/mL

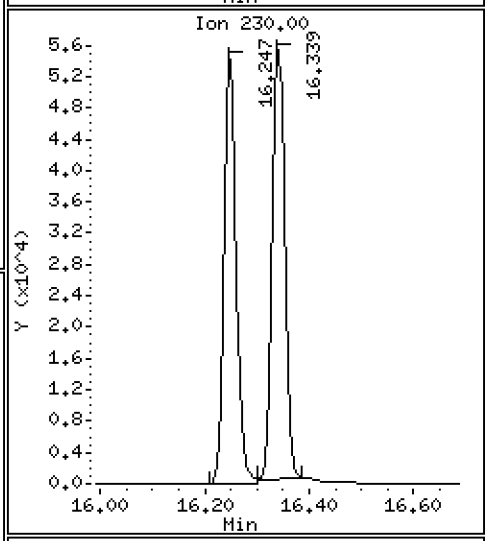


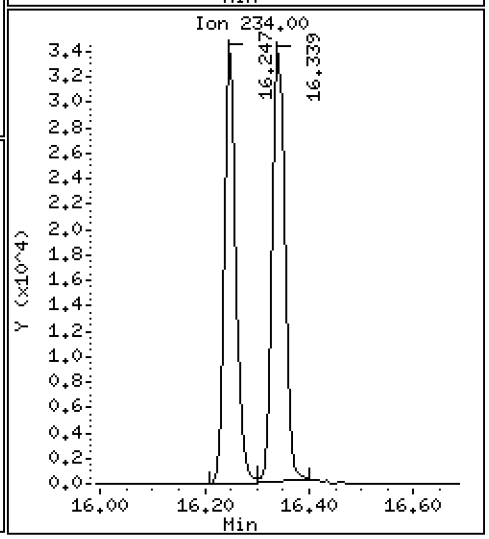












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Inj Date : 01-MAY-2023 20:43
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	Compound Not Detected.						
$	2 Phenol-d5	99	Compound Not Detected.						
	3 Phenol	94	8.837	8.837	(1.000)	225316	4.48333	4.483	
$	5 2-Chlorophenol-d4	132	Compound Not Detected.						
	4 Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	200069	5.50170	5.502	
	6 2-Chlorophenol	128	9.146	9.146	(1.000)	197459	4.45581	4.456	
	7 1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	246622	4.93946	4.939	
*	8 1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	128837	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	269341	5.49159	5.492	
$	10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
	12 1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	235118	4.93763	4.938	
	11 Benzyl alcohol	108	9.751	9.750	(1.000)	122452	5.06918	5.069	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.000)	77053	5.60278	5.603	
	13 2-Methylphenol	108	9.960	9.960	(1.000)	156011	4.23248	4.232	
	17 Hexachloroethane	117	10.473	10.472	(1.000)	111876	5.27548	5.275	
	16 N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	157237	5.38567	5.386	
	15 4-Methylphenol	108	10.232	10.232	(1.000)	196502	4.44066	4.441	
$	18 Nitrobenzene-d5	82	Compound Not Detected.						
	19 Nitrobenzene	77	10.628	10.628	(0.886)	251823	4.97032	4.970	
	20 Isophorone	82	11.070	11.062	(0.923)	475152	7.87757	7.878	
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	104749	3.89627	3.896	
	22 2,4-Dimethylphenol	107	11.283	11.283	(0.941)	169403	3.42401	3.424	
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.958)	221150	5.73564	5.736	
	24 Benzoic acid	105	11.427	11.359	(0.953)	253834	7.38578	7.386	
	25 2,4-Dichlorophenol	162	11.699	11.698	(0.976)	174106	4.47956	4.480	
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	243710	4.37789	4.378	
*	27 Naphthalene-d8	136	11.991	11.983	(1.000)	469135	4.00000		
	28 Naphthalene	128	12.030	12.022	(1.003)	620670	4.74201	4.742	
	29 4-Chloroaniline	127	12.145	12.145	(1.013)	190542	3.95611	3.956	
	30 Hexachlorobutadiene	225	12.385	12.377	(1.033)	142010	4.62571	4.626	
	31 4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	188904	4.45976	4.460	
	32 2-Methylnaphthalene	142	13.422	13.422	(1.119)	441670	4.51323	4.513	
	33 Hexachlorocyclopentadiene	237	13.886	13.886	(0.889)	151577	4.67268	4.673	
	34 2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	134602	4.21230	4.212	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	140409	4.02943	4.029
$ 36	2-Fluorobiphenyl	172	14.204	14.203	(0.909)	2537	0.02246	0.02246
37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	429636	4.83017	4.830
38	2-Nitroaniline	65	14.676	14.676	(0.940)	129919	5.02932	5.029
39	Dimethylphthalate	163	15.101	15.101	(0.967)	490864	4.90763	4.908
40	Acenaphthylene	152	15.303	15.303	(0.980)	663079	4.77574	4.776
41	2,6-Dinitrotoluene	165	15.249	15.248	(0.976)	110074	4.87568	4.876
* 42	Acenaphthene-d10	164	15.620	15.612	(1.000)	260867	4.00000	
43	3-Nitroaniline	138	15.535	15.527	(0.995)	106140	4.77608	4.776
44	Acenaphthene	153	15.682	15.682	(1.004)	416452	4.71606	4.716
45	2,4-Dinitrophenol	184	15.744	15.743	(1.008)	41326	2.37611	2.376
46	Dibenzofuran	168	16.006	16.006	(1.025)	598046	4.64493	4.645
47	4-Nitrophenol	109	15.829	15.828	(1.013)	82973	3.99163	3.992
48	2,4-Dinitrotoluene	165	16.061	16.060	(1.028)	141639	4.38106	4.381
50	Diethylphthalate	149	16.563	16.555	(1.060)	524953	5.05491	5.055
49	Fluorene	166	16.733	16.725	(1.071)	484223	4.55893	4.559
51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	253695	4.79663	4.797
52	4-Nitroaniline	138	16.810	16.810	(1.076)	93244	4.29306	4.293
53	4,6-Dinitro-2-methylphenol	198	16.903	16.902	(0.905)	70705	3.75964	3.760
54	N-Nitrosodiphenylamine	169	16.957	16.956	(0.908)	324810	5.12520	5.125
$ 55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	177	0.01417	0.01417
56	4-Bromophenyl-phenylether	248	17.720	17.712	(0.949)	147865	4.94237	4.942
57	Hexachlorobenzene	284	18.044	18.044	(0.966)	140819	4.68942	4.689
58	Pentachlorophenol	266	18.401	18.393	(0.985)	80436	3.86584	3.866
* 59	Phenanthrene-d10	188	18.671	18.671	(1.000)	479585	4.00000	
60	Phenanthrene	178	18.718	18.718	(1.002)	645346	4.58600	4.586
61	Anthracene	178	18.818	18.811	(1.008)	542159	4.16924	4.169
62	Carbazole	167	19.136	19.136	(1.025)	518357	4.50323	4.503
63	Di-n-butylphthalate	149	19.902	19.901	(1.066)	862725	4.89550	4.895
64	Fluoranthene	202	21.085	21.085	(0.890)	774676	4.73795	4.738
65	Pyrene	202	21.511	21.503	(0.908)	757130	4.63549	4.635
$ 66	Terphenyl-d14	244	21.782	21.774	(0.919)	2912	0.02254	0.02254
67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	349577	4.77781	4.778
68	Benzo(a)anthracene	228	23.663	23.655	(0.999)	683788	4.71653	4.717
* 69	Chrysene-d12	240	23.694	23.686	(1.000)	366214	4.00000	
70	3,3'-Dichlorobenzidine	252	23.617	23.601	(0.997)	467557	10.2140	10.21
71	Chrysene	228	23.741	23.733	(1.002)	589116	4.54006	4.540
72	bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	493652	5.40606	5.406
* 134	Di-n-octylphthalate-d4	153	24.739	24.724	(1.000)	633915	4.00000	
73	Di-n-octylphthalate	149	24.747	24.739	(1.000)	863084	5.16068	5.161
74	Benzo(b)fluoranthene	252	25.684	25.660	(0.968)	641646	4.78532	4.785
75	Benzo(k)fluoranthene	252	25.730	25.715	(0.970)	593022	4.45695	4.457
76	Benzo(a)pyrene	252	26.404	26.388	(0.995)	537284	4.78725	4.787
* 77	Perylene-d12	264	26.536	26.520	(1.000)	326407	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.514	29.483	(1.112)	630589	4.67700	4.677
79	Dibenzo(a,h)anthracene	278	29.522	29.491	(1.113)	524960	4.64906	4.649
80	Benzo(g,h,i)perylene	276	30.392	30.353	(1.145)	500646	4.65862	4.659
90	N-Nitrosodimethylamine	74	5.067	5.083	(1.000)	109300	5.19047	5.190
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.310	21.310	(0.899)	165444	2.80075	2.801
103	Pyridine	79	5.098	5.144	(1.000)	176959	5.32922	5.329
105	1-methylnaphthalene	142	13.646	13.646	(1.138)	433828	4.83538	4.835
111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	521542	5.14057	5.141
187	Total Benzofluoranthenes	252	25.684	25.660	(0.968)	1185382	9.18410	9.184

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.339	(1.046)	111498	3.25312	3.253

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	128837	-10.72
27 Naphthalene-d8	493698	246849	987396	469135	-4.98
42 Acenaphthene-d10	279210	139605	558420	260867	-6.57
59 Phenanthrene-d10	521463	260732	1042926	479585	-8.03
69 Chrysene-d12	369911	184956	739822	366214	-1.00
134 Di-n-octylphthala	626668	313334	1253336	633915	1.16
77 Perylene-d12	311339	155670	622678	326407	4.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.74	-0.03
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012311.D

Lab ID: SLE0036-SCV1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.059	-0.0589	2,2'-oxybis(1-Chloropropane)
0.953	0.948	0.0050	Benzoic acid

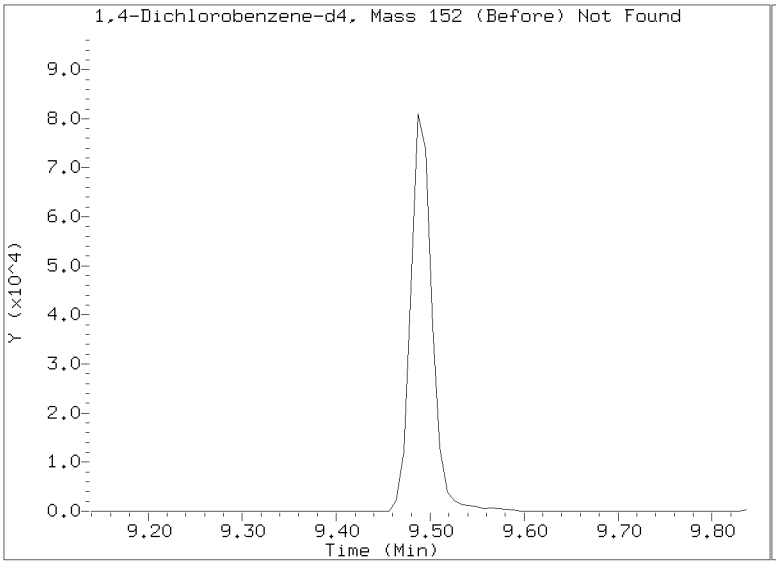
RRT check based on Ccal File: NT1005012308.D

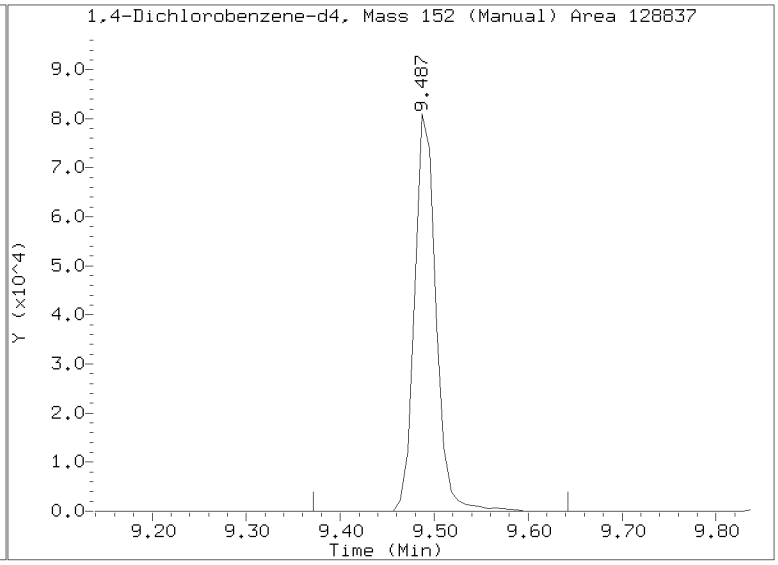
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012311.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0036-SCV1 Client ID:
Report Date: 05/08/2023 09:58



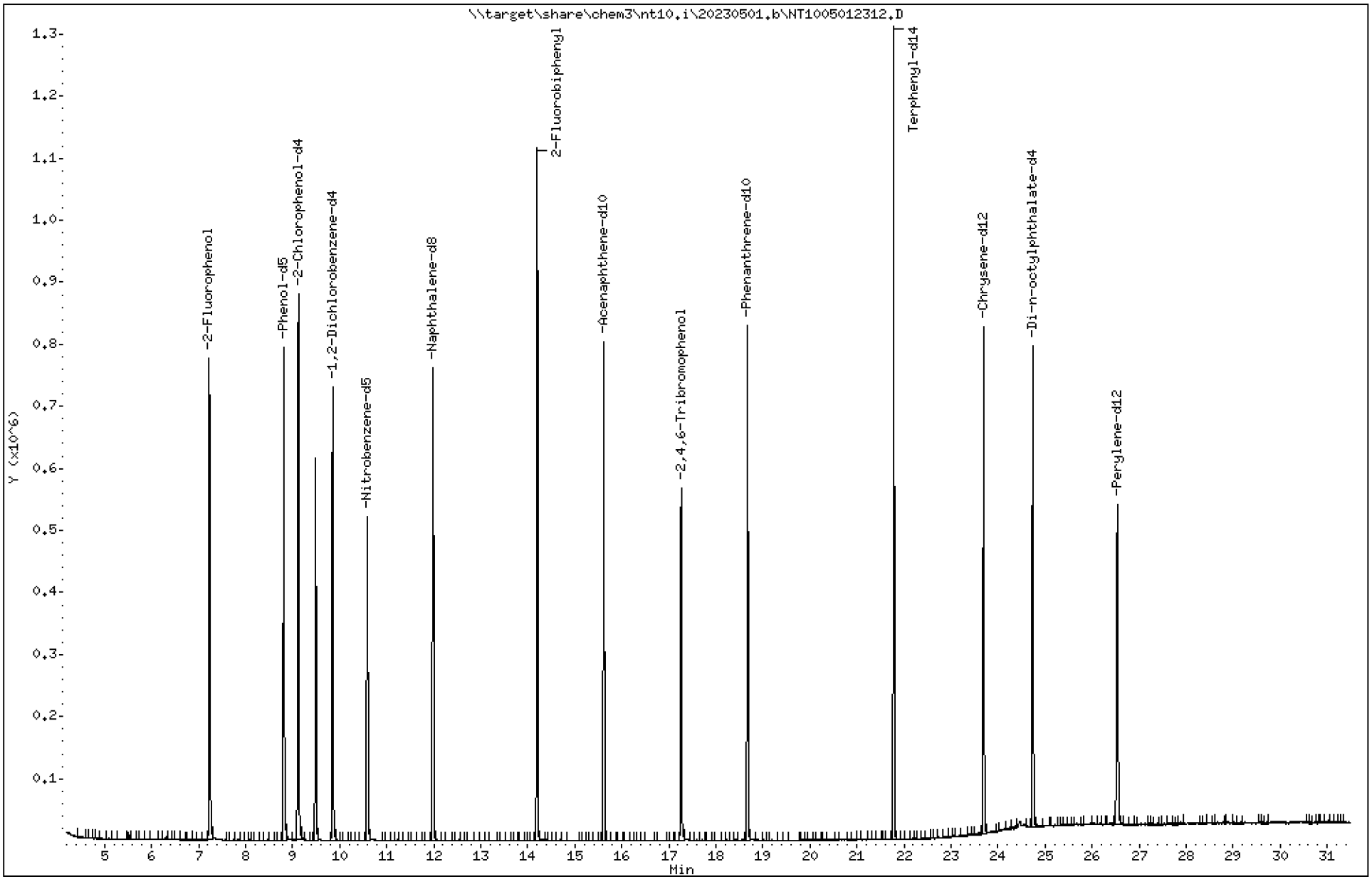


APPROVED

By Deenay Dunmore at 10:02 am, May 08, 2023

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012312.D
Date : 01-MAY-2023 21:22
Client ID:
Sample Info: SLE0036-ICB1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012312.D
Lab Smp Id: SLE0036-ICB1
Inj Date : 01-MAY-2023 21:22
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 03-May-2023 14:26 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.230	7.230	(1.000)	308314	6.79476	6.795	
$	2 Phenol-d5	99	8.814	8.814	(1.000)	373291	6.82363	6.824	
	3 Phenol	94	Compound Not Detected.						
$	5 2-Chlorophenol-d4	132	9.123	9.123	(1.000)	349140	6.65965	6.660	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	149952	4.00000		(M)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.851	9.851	(1.000)	173145	4.47678	4.477	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	Compound Not Detected.						
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	Compound Not Detected.						
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	Compound Not Detected.						
$	18 Nitrobenzene-d5	82	10.589	10.589	(0.884)	271090	4.41955	4.420	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.983	11.983	(1.000)	548897	4.00000		
	28 Naphthalene	128	Compound Not Detected.						
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	Compound Not Detected.						
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.203	14.203	(0.909)	542585	4.27358	4.274
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.620	15.612	(1.000)	293264	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	76547	5.29127	5.291
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.671	18.671	(1.000)	524738	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.782	21.774	(0.919)	619196	4.33254	4.333
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.694	23.686	(1.000)	405166	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134	Di-n-octylphthalate-d4	153	24.739	24.724	(1.000)	599674	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	26.535	26.520	(1.000)	379142	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					
	187	Total Benzofluoranthenes	252	Compound Not Detected.					

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

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012312.D
Lab Smp Id: SLE0036-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	149952	3.91
27 Naphthalene-d8	493698	246849	987396	548897	11.18
42 Acenaphthene-d10	279210	139605	558420	293264	5.03
59 Phenanthrene-d10	521463	260732	1042926	524738	0.63
69 Chrysene-d12	369911	184956	739822	405166	9.53
134 Di-n-octylphthala	626668	313334	1253336	599674	-4.31
77 Perylene-d12	311339	155670	622678	379142	21.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.98	-0.06
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.74	-0.03
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012312.D

Lab ID: SLE0036-ICB1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 21:22

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

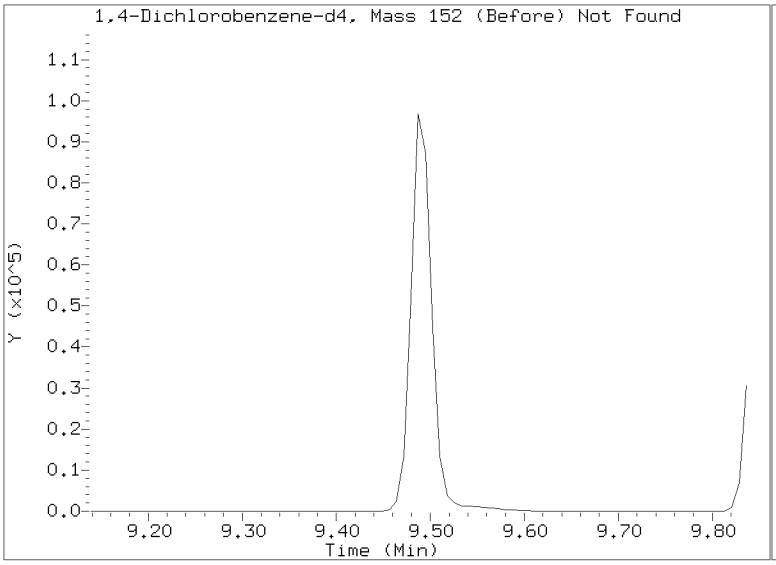
RRT check based on Ccal File: NT1005012308.D

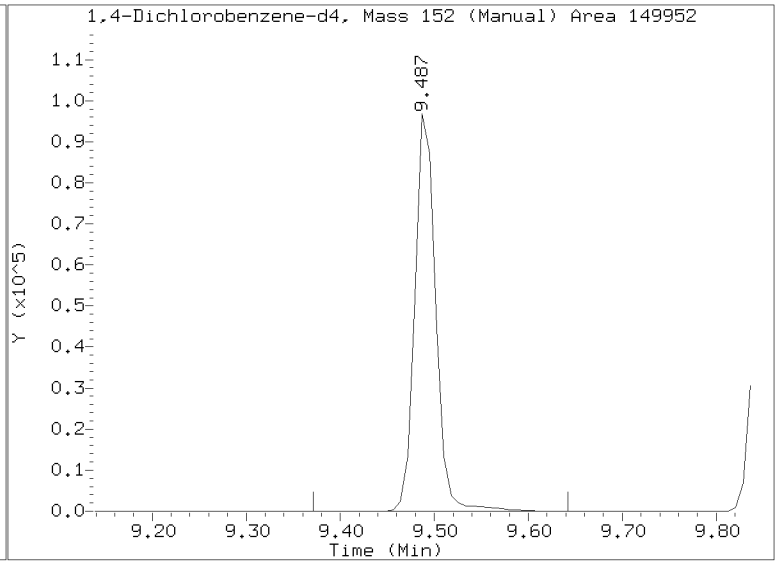
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012312.D
Injection Date: 01-MAY-2023 21:22
Lab ID:SLE0036-ICB1 Client ID:
Report Date: 05/08/2023 09:58





APPROVED

By Deenay Dunmore at 10:02 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

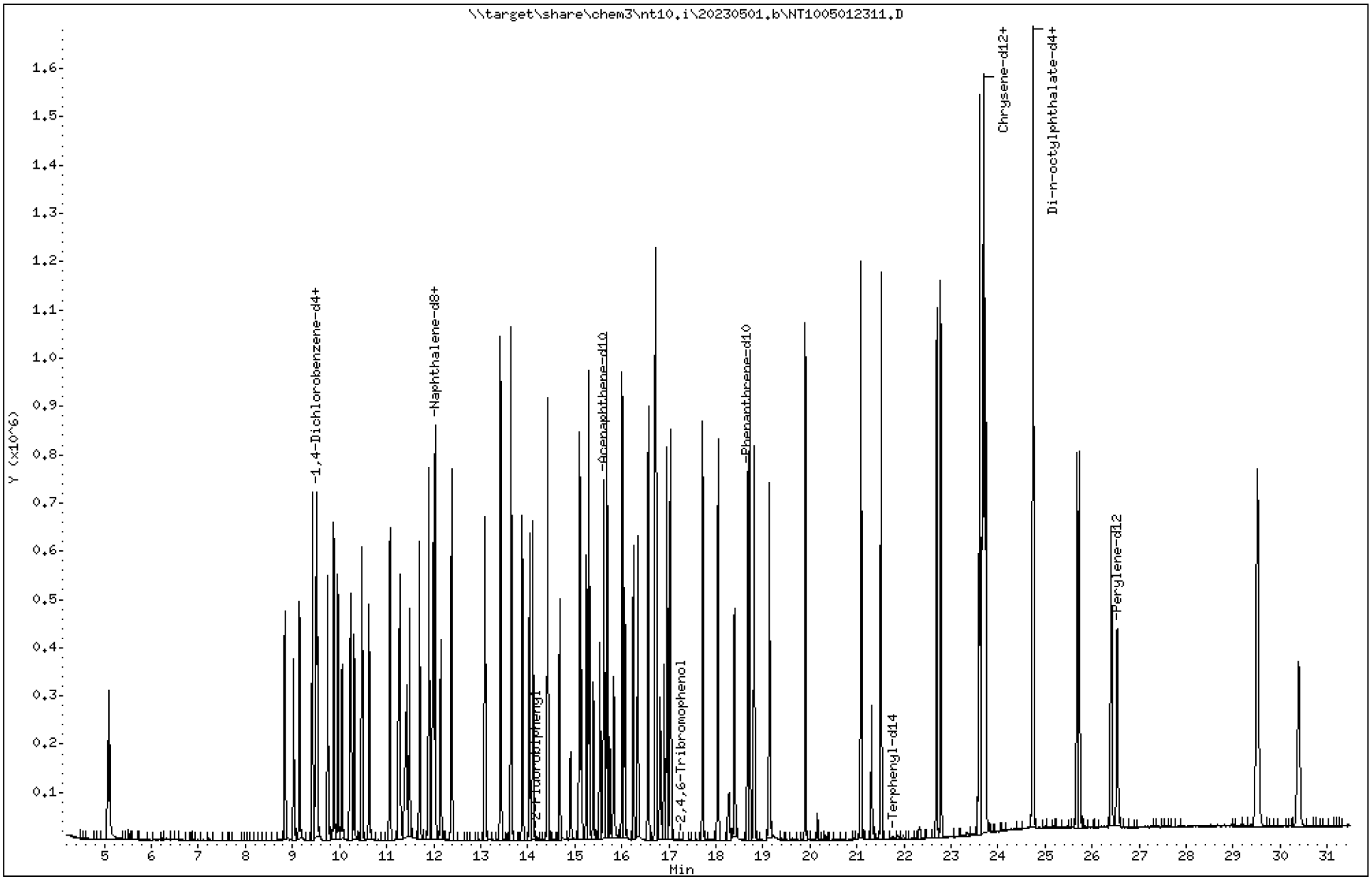
Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00012
Laboratory ID: SLE0036-SCV1
Sequence: SLE0036
Sequence Name: SCV 5.0
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	4.5	-10.3	20.00
4-Methylphenol	5.0000	4.4	-11.2	20.00
Naphthalene	5.0000	4.7	-5.2	20.00
2-Methylnaphthalene	5.0000	4.5	-9.7	20.00
Acenaphthylene	5.0000	4.8	-4.5	20.00
Dimethylphthalate	5.0000	4.9	-1.8	20.00
Acenaphthene	5.0000	4.7	-5.7	20.00
Dibenzofuran	5.0000	4.6	-7.1	20.00
Fluorene	5.0000	4.6	-8.8	20.00
Phenanthrene	5.0000	4.6	-8.3	20.00
Anthracene	5.0000	4.2	-16.6	20.00
Fluoranthene	5.0000	4.7	-5.2	20.00
Pyrene	5.0000	4.6	-7.3	20.00
Butylbenzylphthalate	5.0000	4.8	-4.4	20.00
Benzo(a)anthracene	5.0000	4.7	-5.7	20.00
Chrysene	5.0000	4.5	-9.2	20.00
bis(2-Ethylhexyl)phthalate	5.0000	5.4	8.1	20.00
Benzofluoranthenes, Total	10.000	9.2	-8.2	20.00
Benzo(a)pyrene	5.0000	4.8	-4.3	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.7	-6.5	20.00
Dibenzo(a,h)anthracene	5.0000	4.6	-7.0	20.00
Benzo(g,h,i)perylene	5.0000	4.7	-6.8	20.00
2-Fluorophenol	7.5000	0.00		20.00
Phenol-d5	7.5000	0.00		20.00
2-Chlorophenol-d4	7.5000	0.00		20.00
1,2-Dichlorobenzene-d4	5.0000	0.00		20.00
Nitrobenzene-d5	5.0000	0.00		20.00
2-Fluorobiphenyl	5.0000	0.0225	-99.6	20.00
2,4,6-Tribromophenol	7.5000	0.0142	-99.8	20.00
p-Terphenyl-d14	5.0000	0.0225	-99.5	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Date : 01-MAY-2023 20:43
Client ID:
Sample Info: SLE0036-SCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 843 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

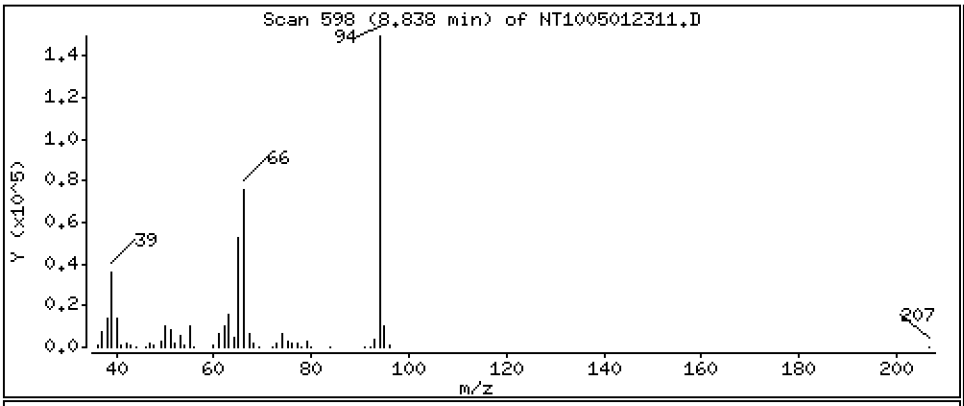
Operator: VTS

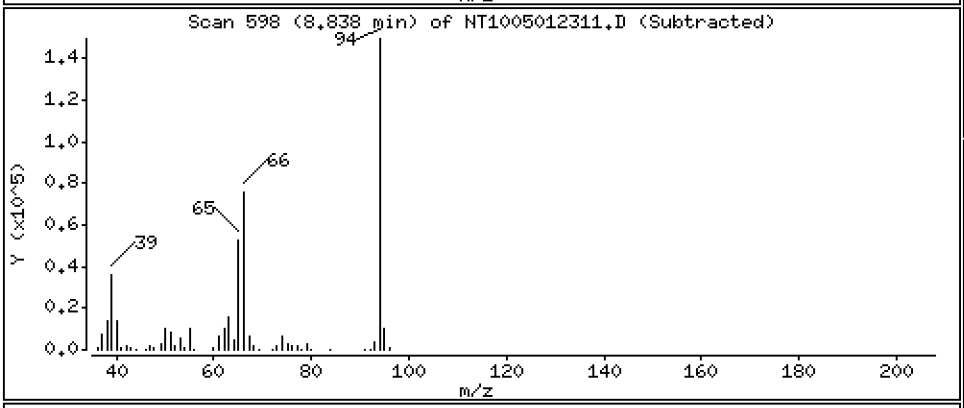
Column phase: ZB-5msi

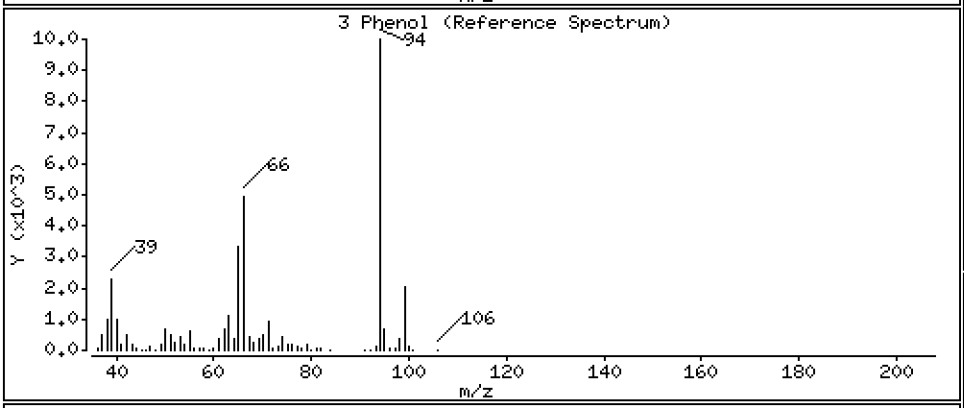
Column diameter: 0.25

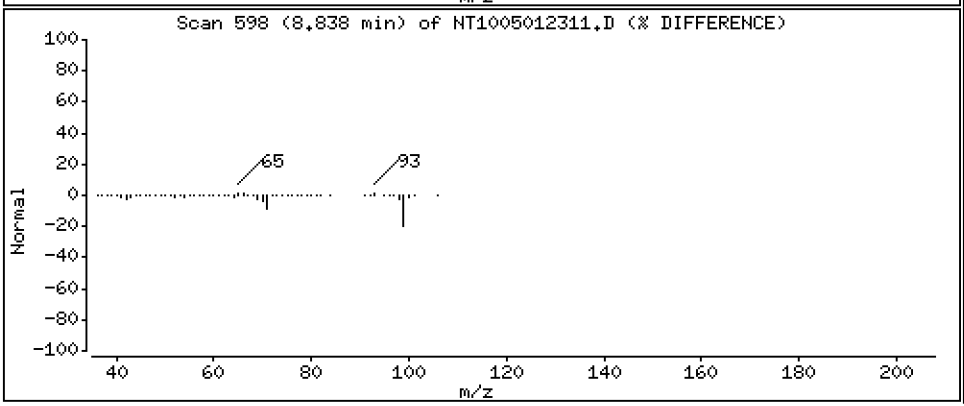
3 Phenol

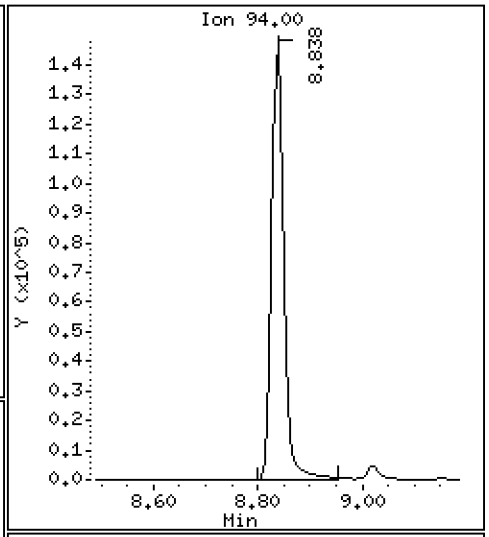
Concentration: 4.483 ug/mL

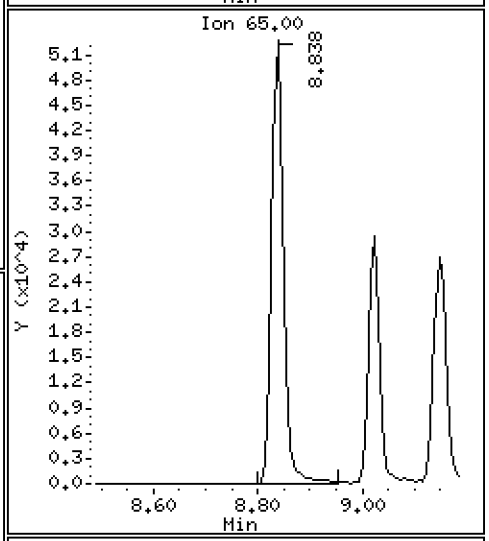


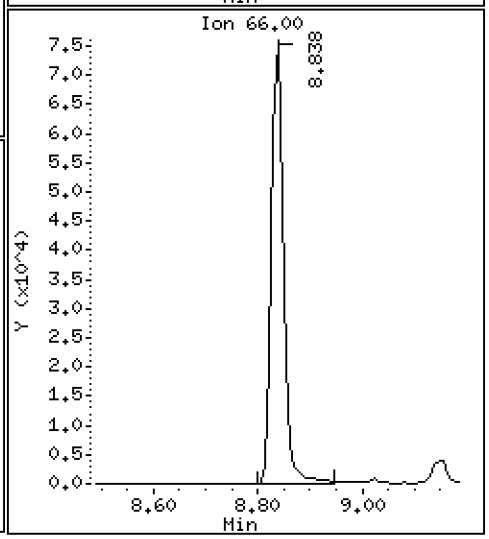












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

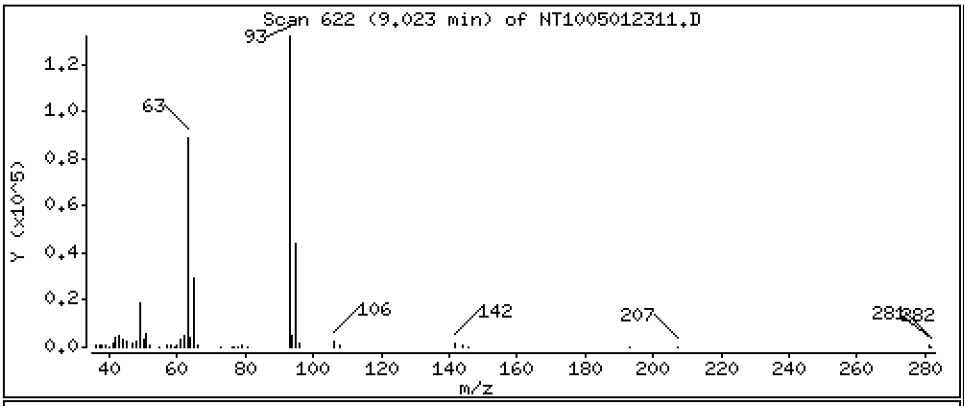
Operator: VTS

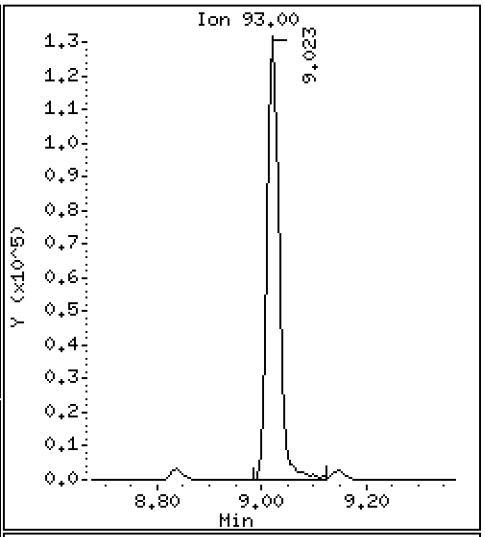
Column phase: ZB-5msi

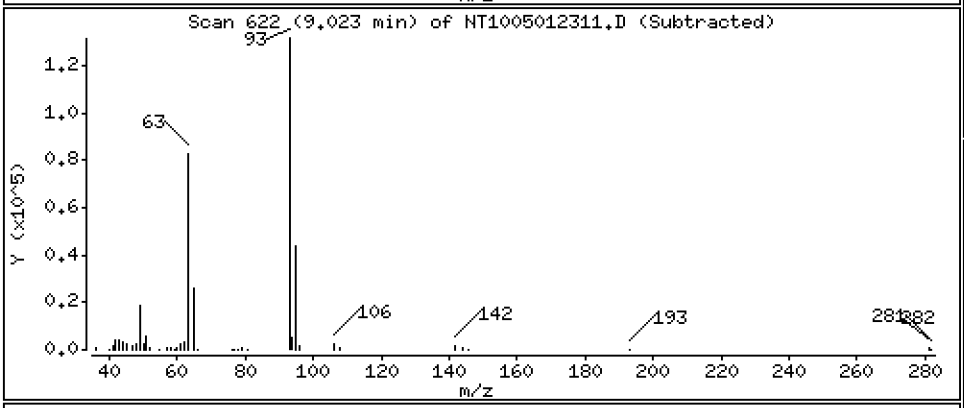
Column diameter: 0.25

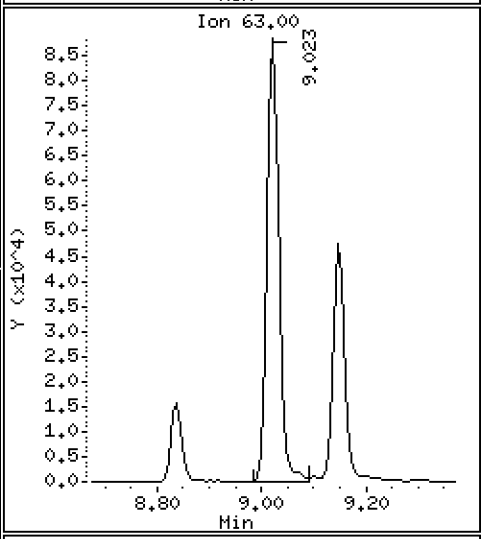
4 Bis(2-Chloroethyl)ether

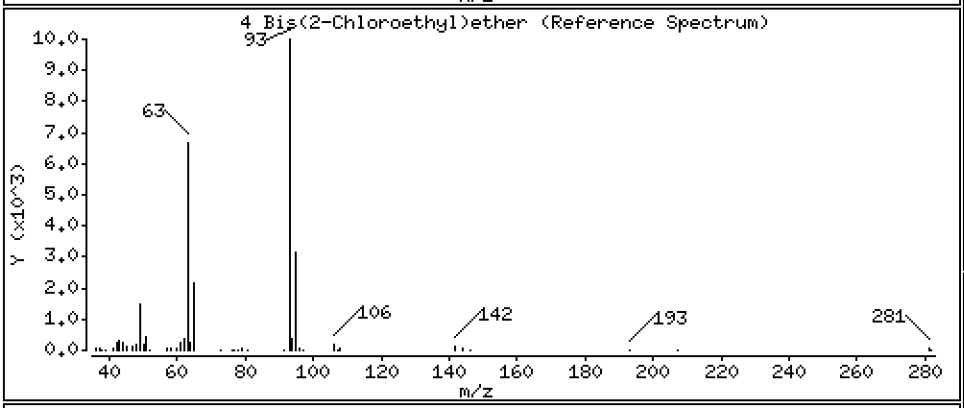
Concentration: 5.502 ug/mL

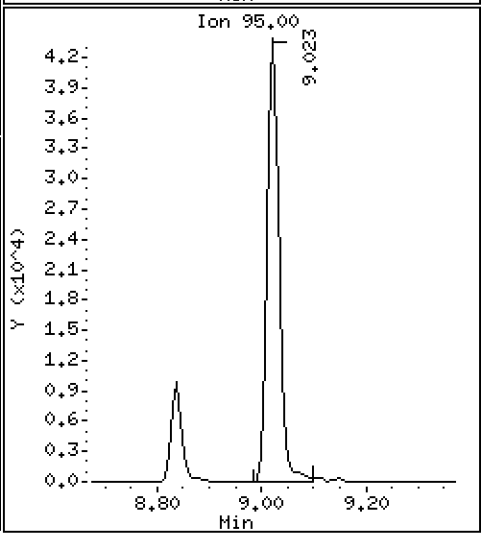


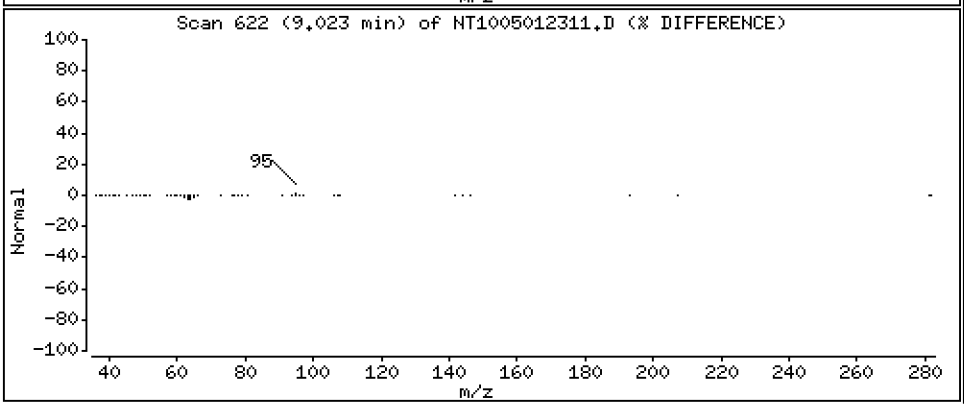












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

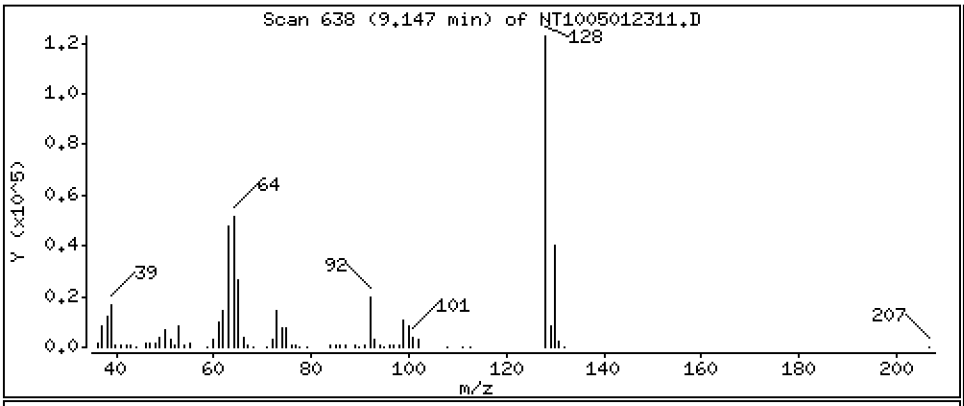
Operator: VTS

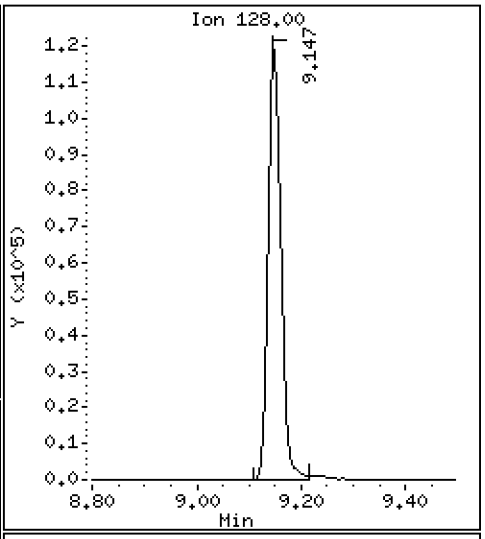
Column phase: ZB-5msi

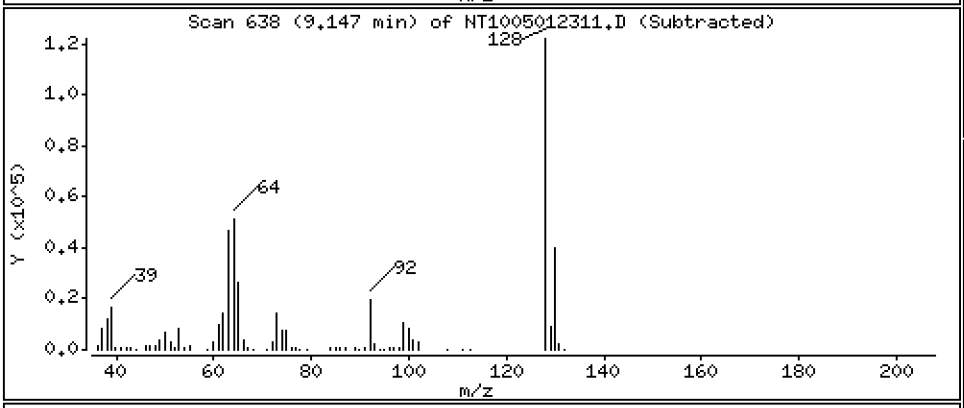
Column diameter: 0.25

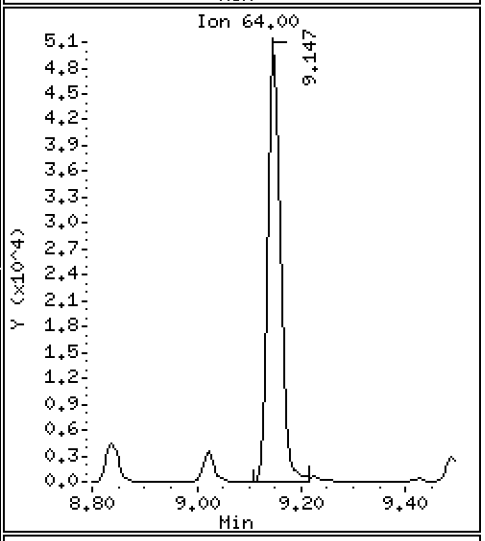
6 2-Chlorophenol

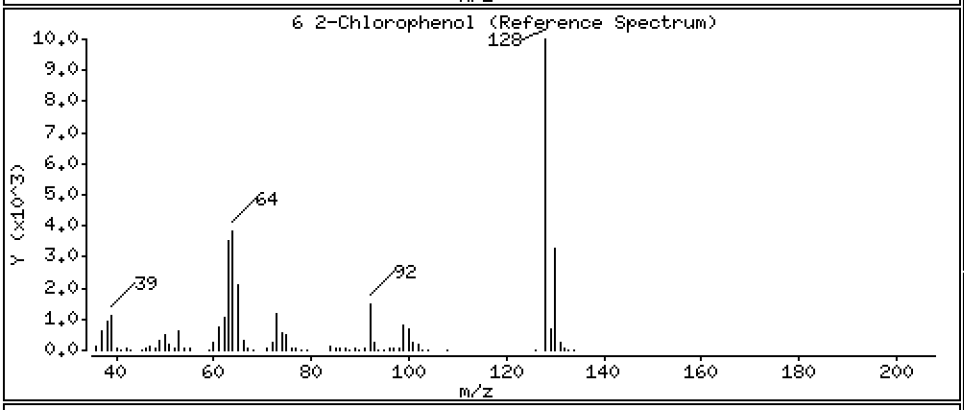
Concentration: 4.456 ug/mL

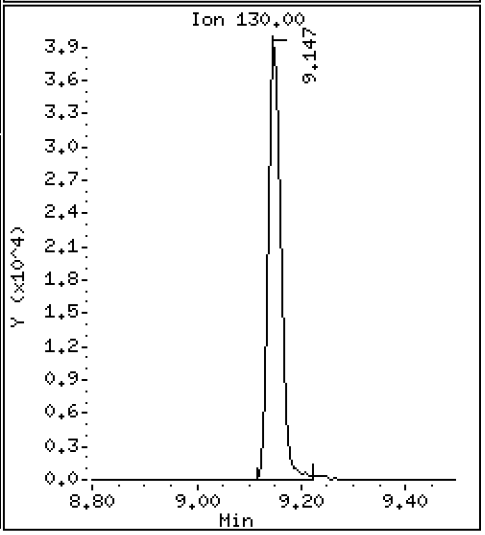


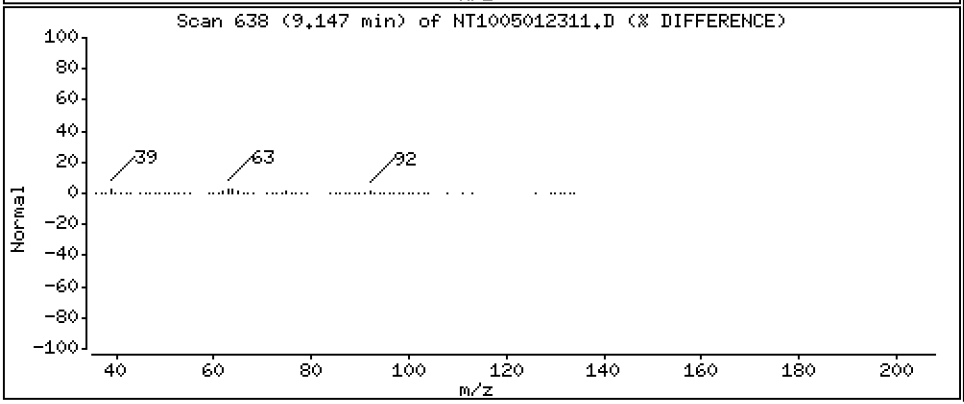












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

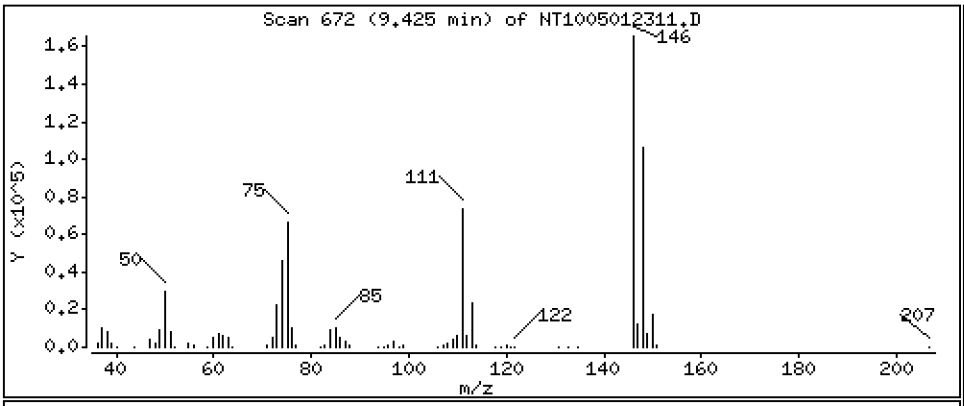
Operator: VTS

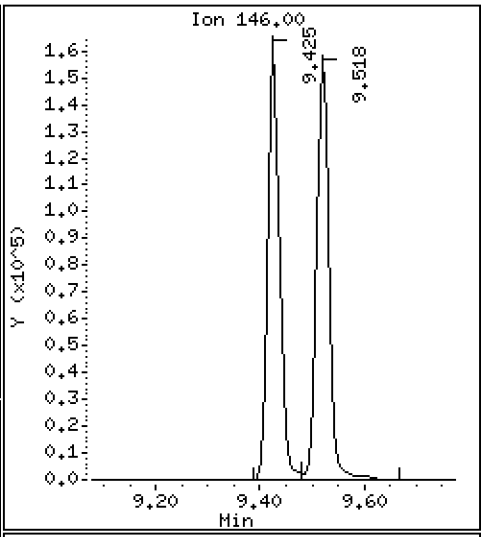
Column phase: ZB-5msi

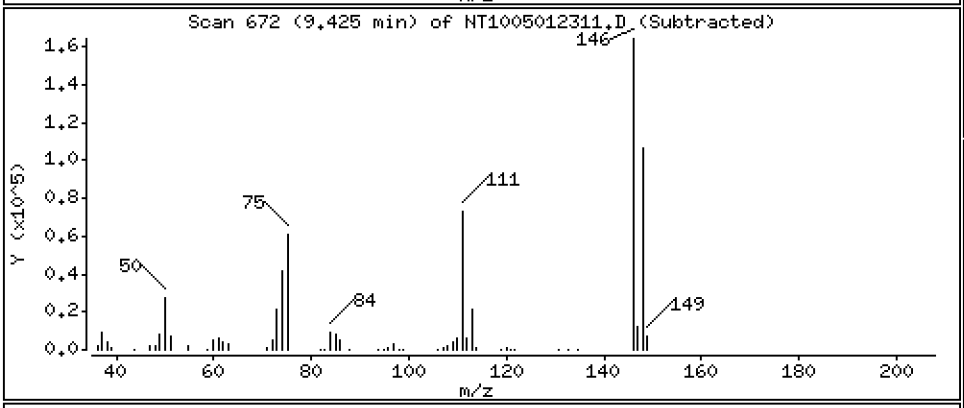
Column diameter: 0.25

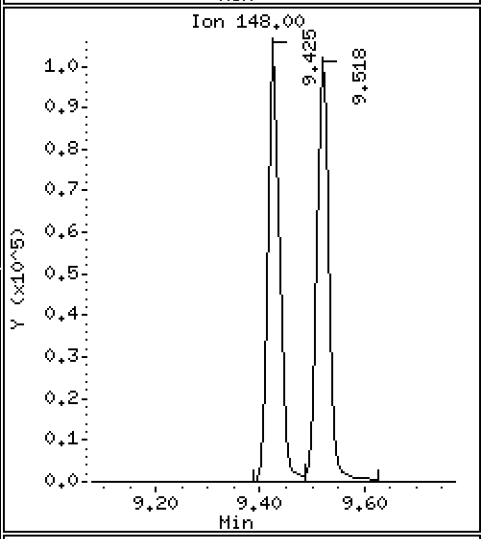
7 1,3-Dichlorobenzene

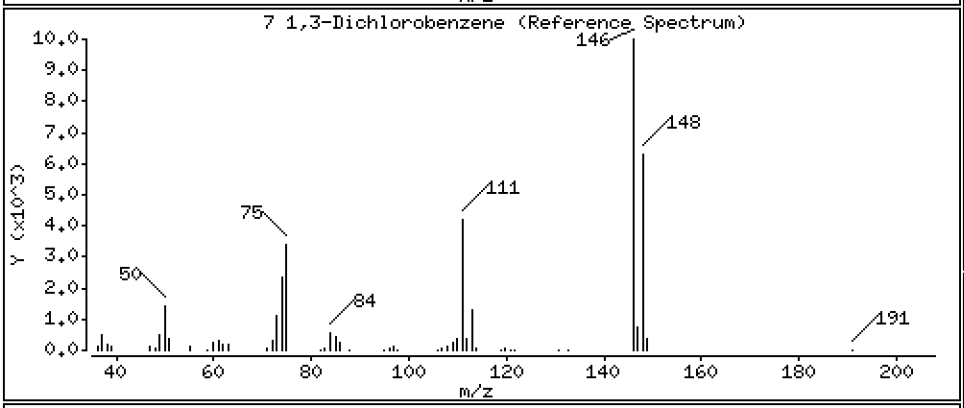
Concentration: 4.939 ug/mL

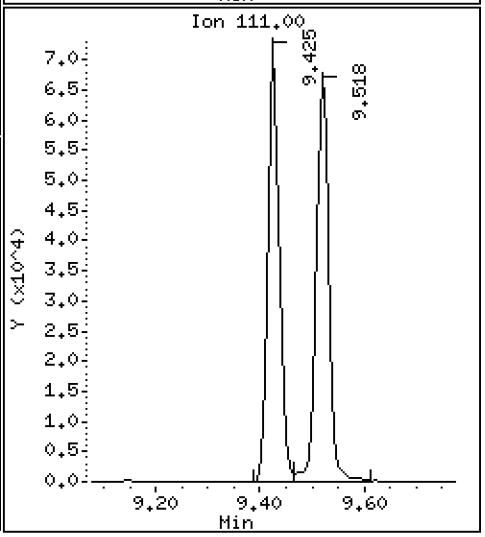


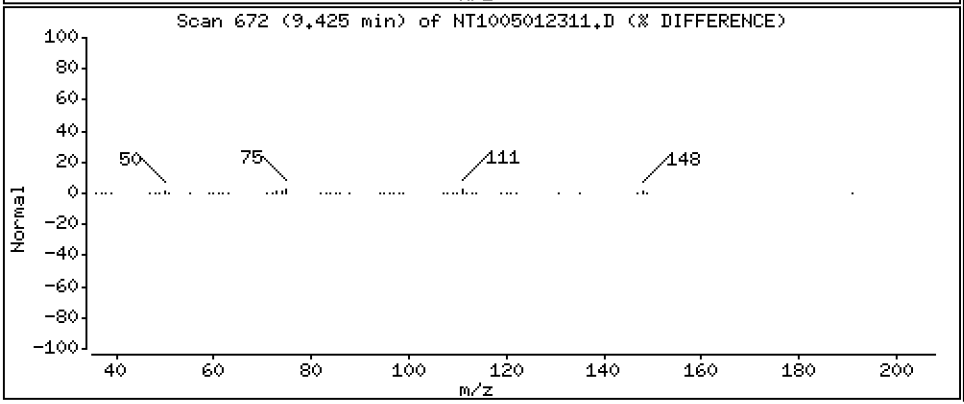












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

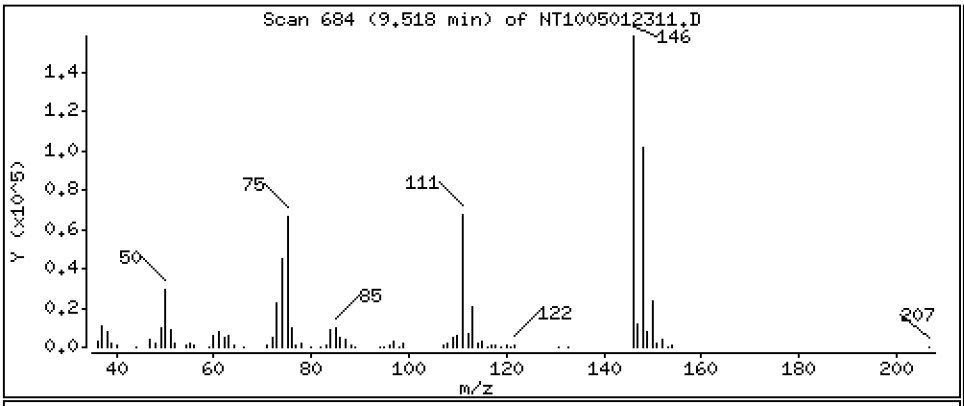
Operator: VTS

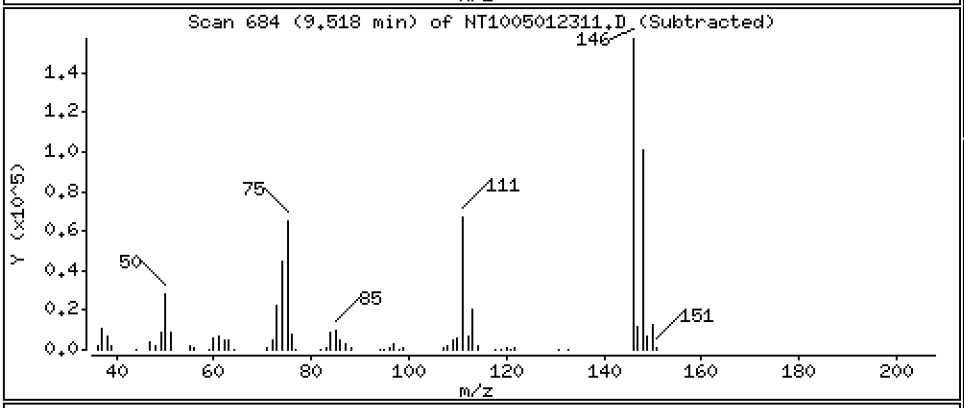
Column phase: ZB-5msi

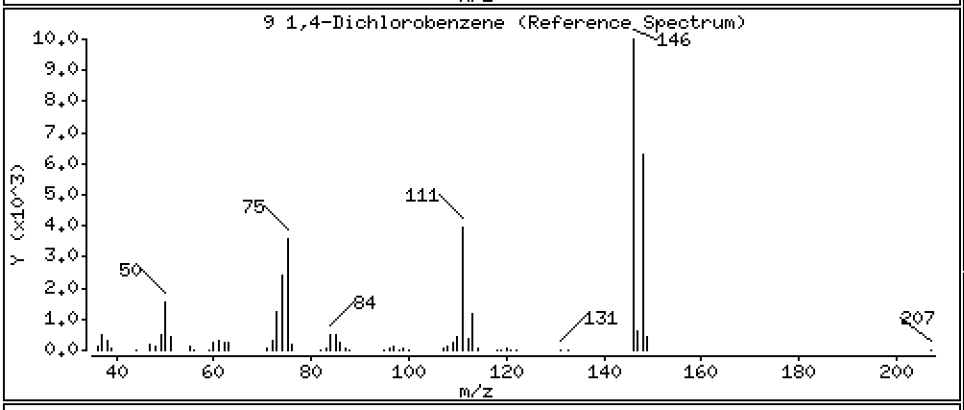
Column diameter: 0.25

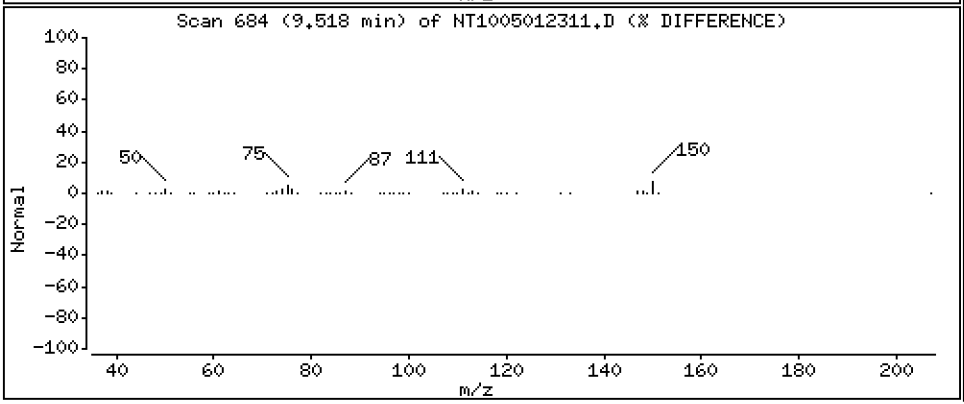
9 1,4-Dichlorobenzene

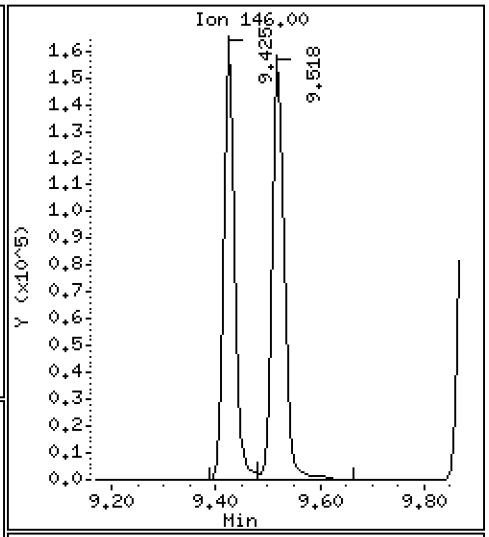
Concentration: 5.492 ug/mL

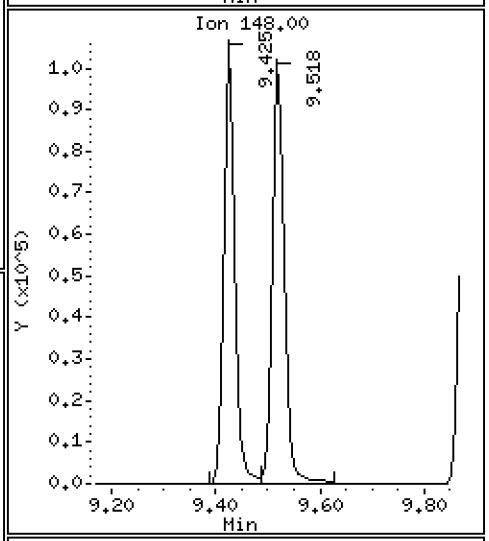


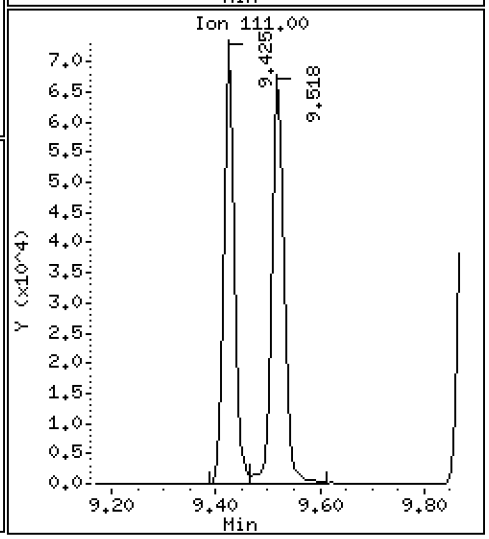












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

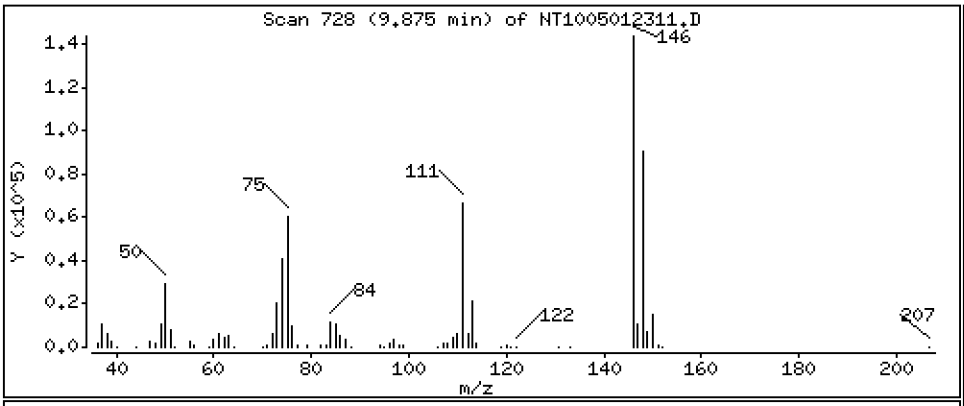
Operator: VTS

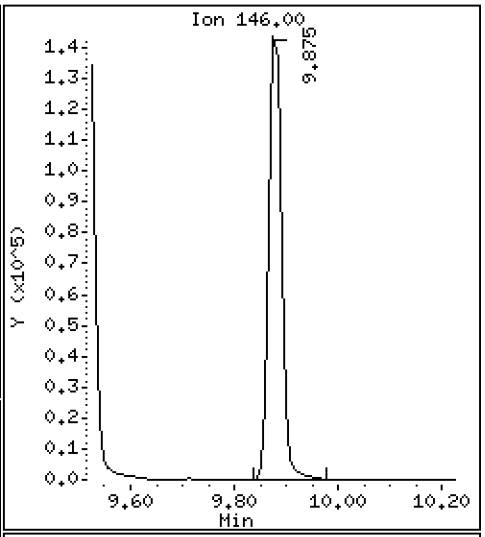
Column phase: ZB-5msi

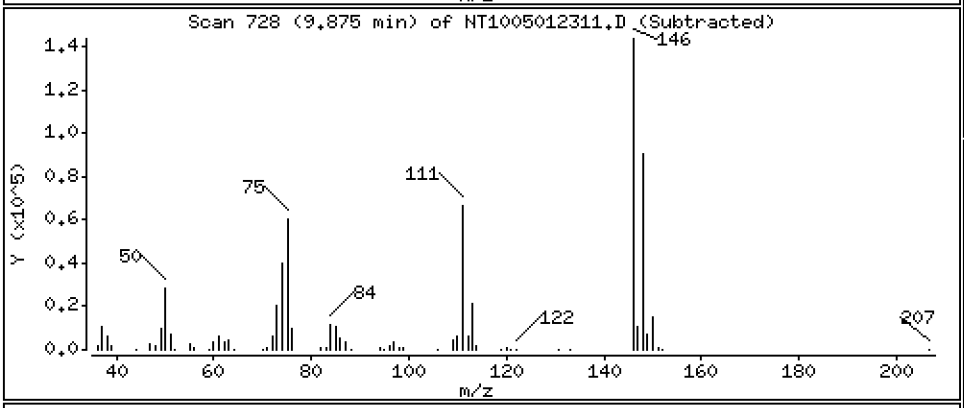
Column diameter: 0.25

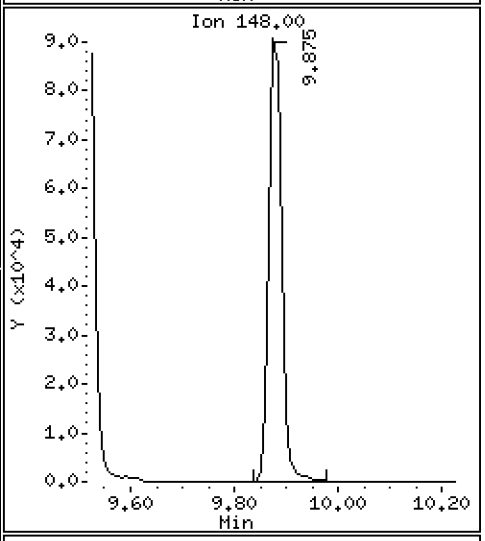
12 1,2-Dichlorobenzene

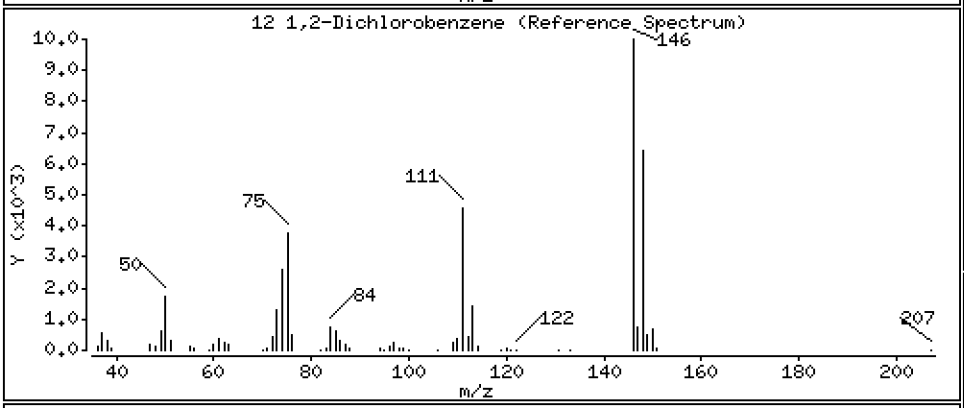
Concentration: 4.938 ug/mL

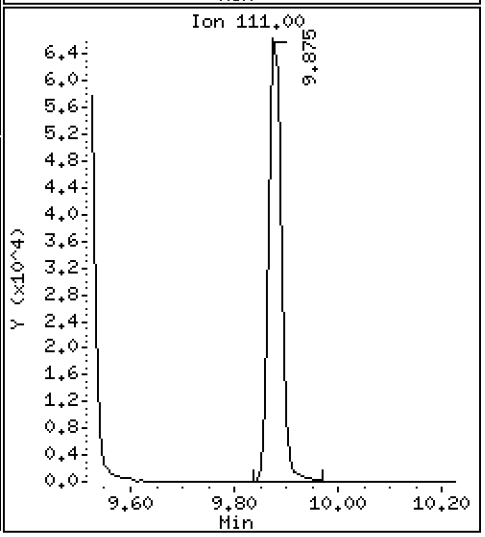


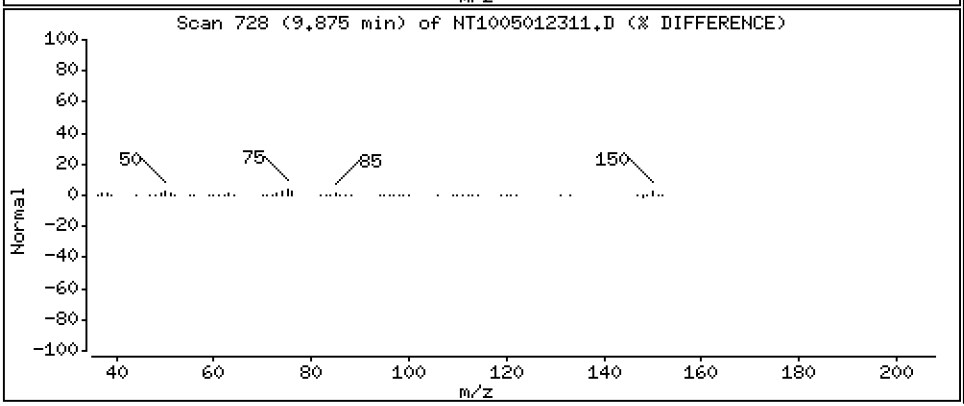












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

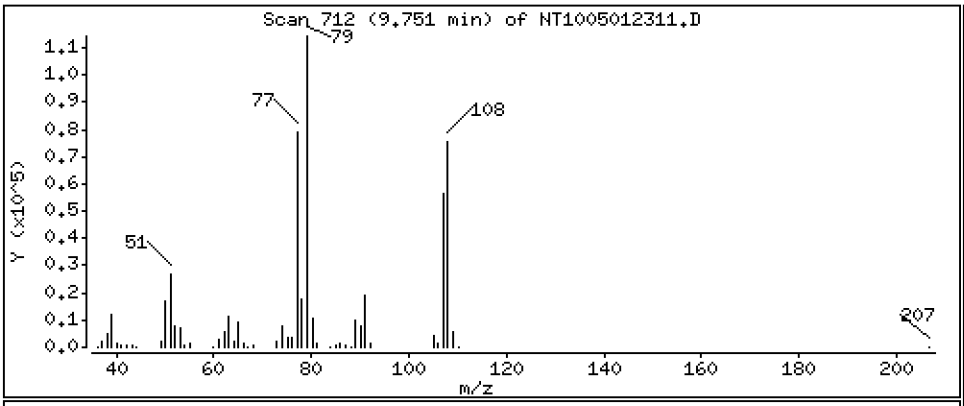
Operator: VTS

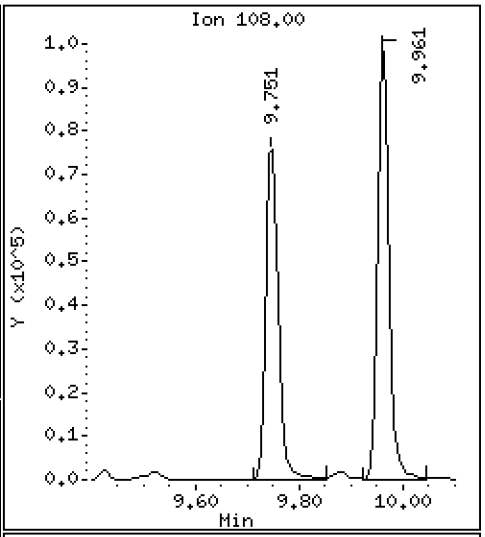
Column phase: ZB-5msi

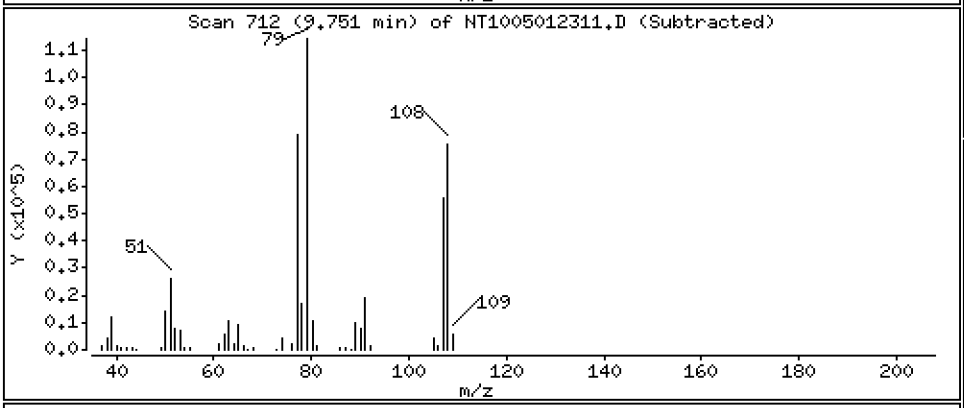
Column diameter: 0.25

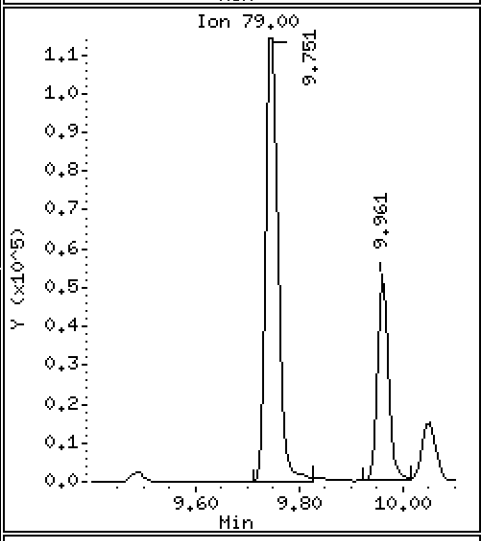
11 Benzyl alcohol

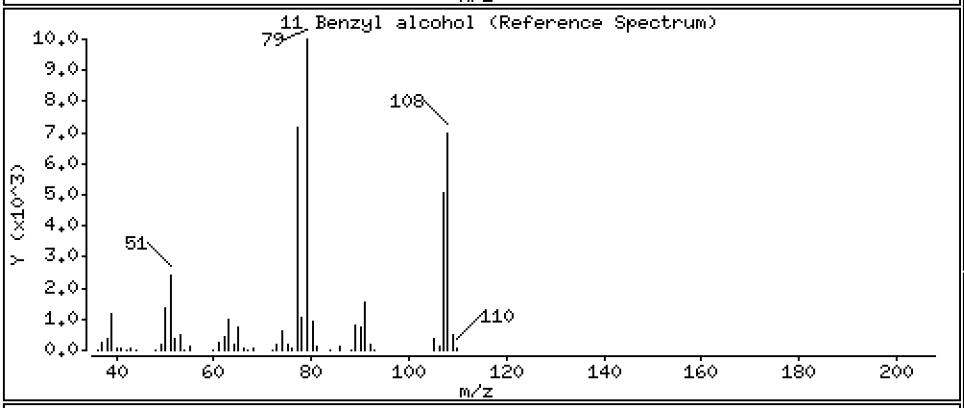
Concentration: 5.069 ug/mL

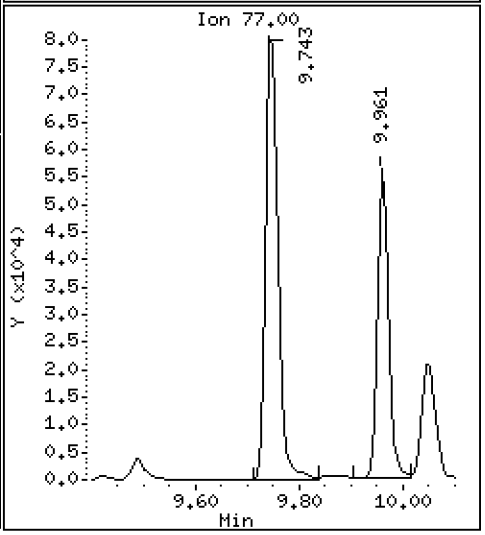


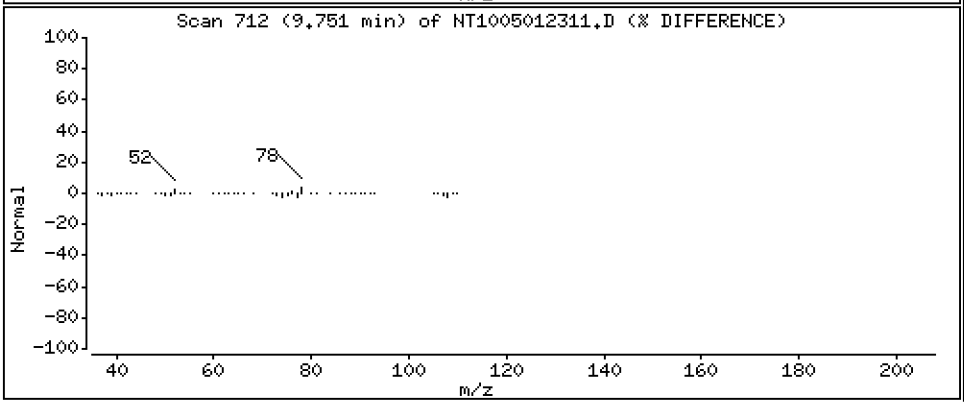












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

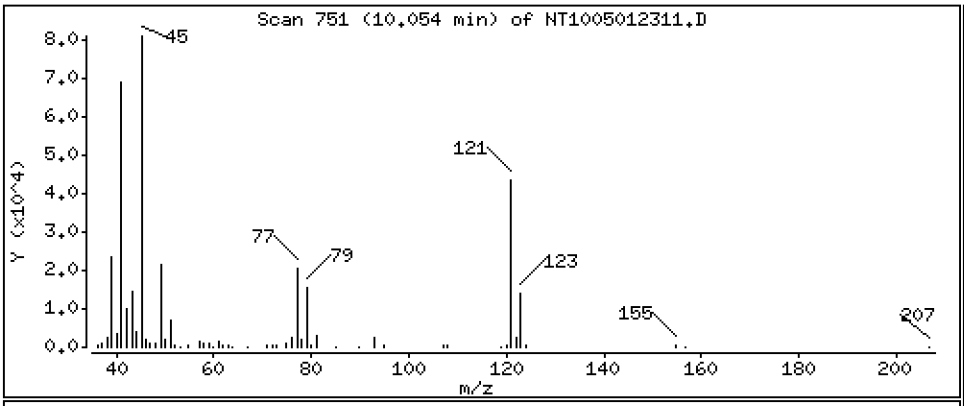
Operator: VTS

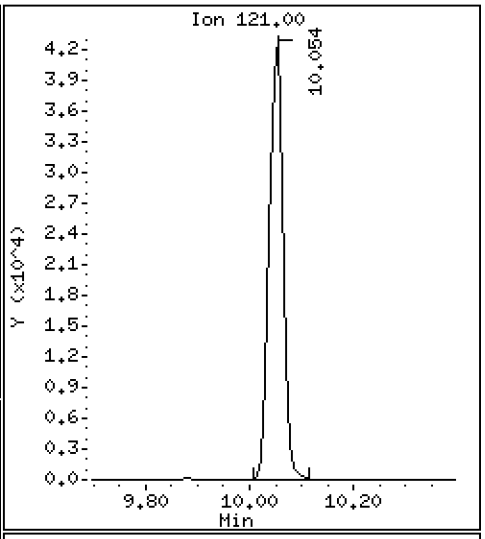
Column phase: ZB-5msi

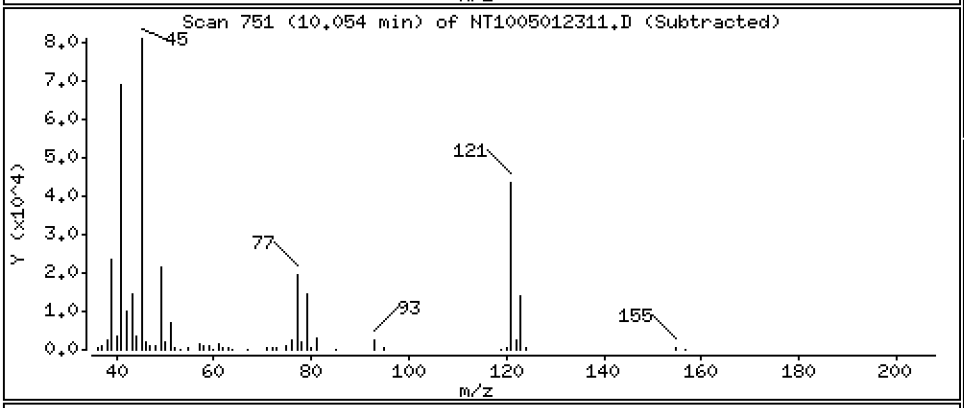
Column diameter: 0.25

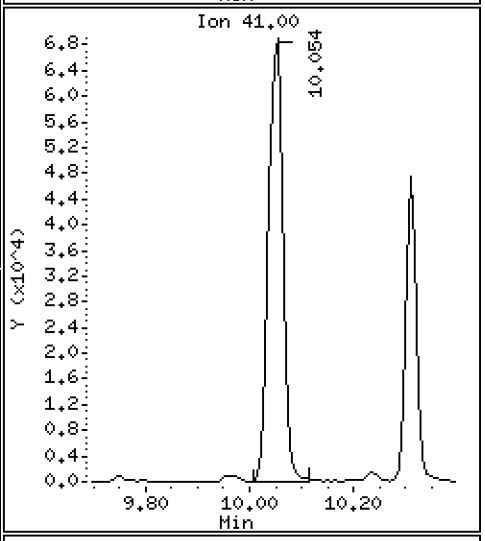
14 2,2'-oxybis(1-Chloropropane)

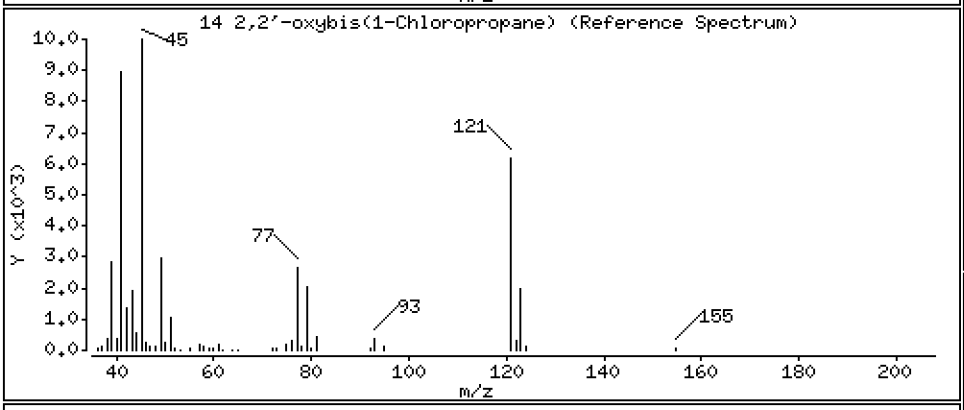
Concentration: 5.603 ug/mL

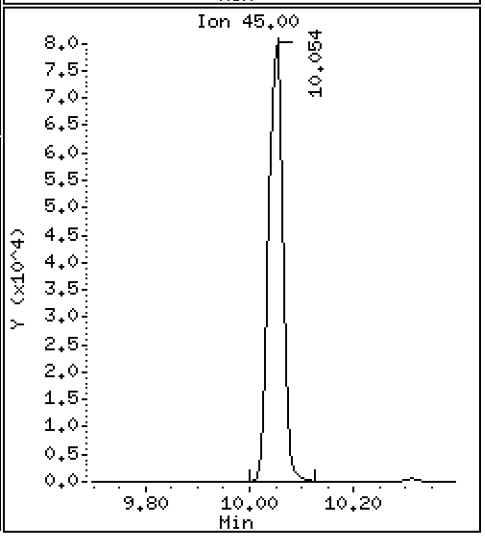


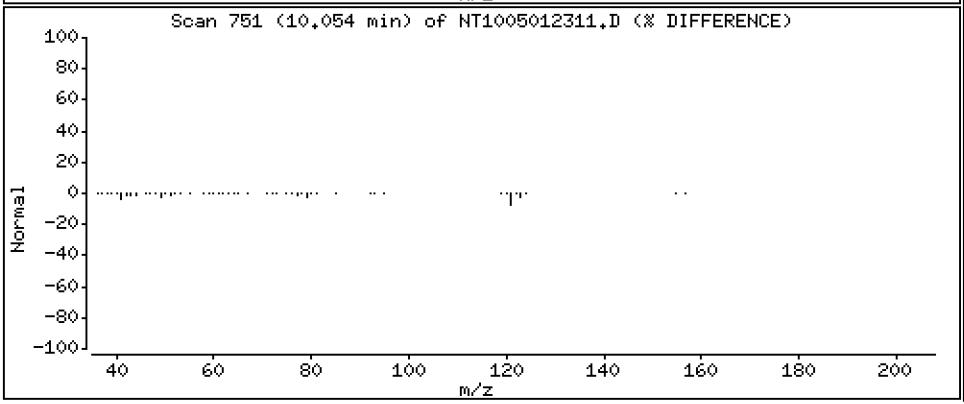












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

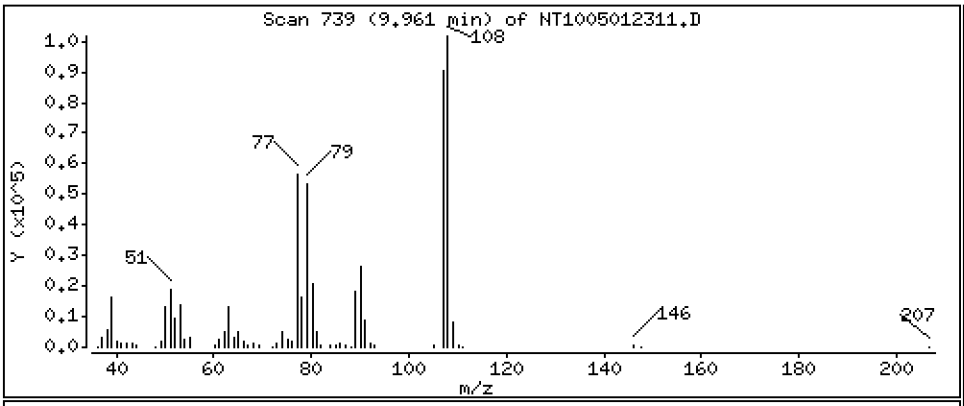
Operator: VTS

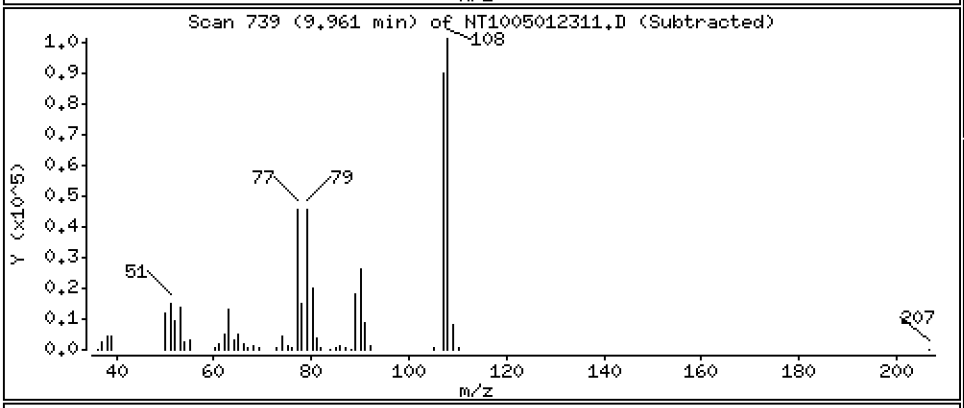
Column phase: ZB-5msi

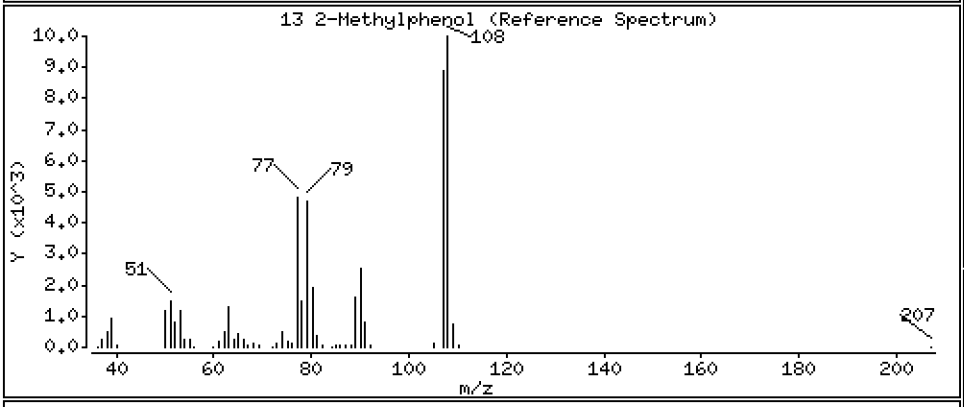
Column diameter: 0.25

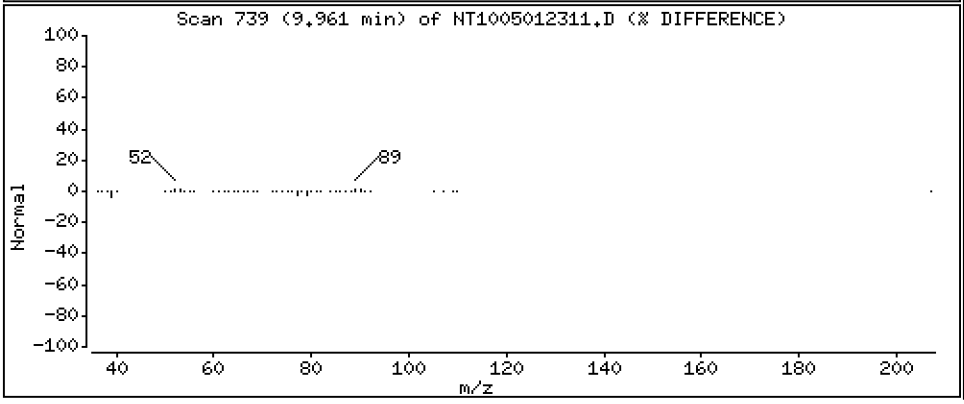
13 2-Methylphenol

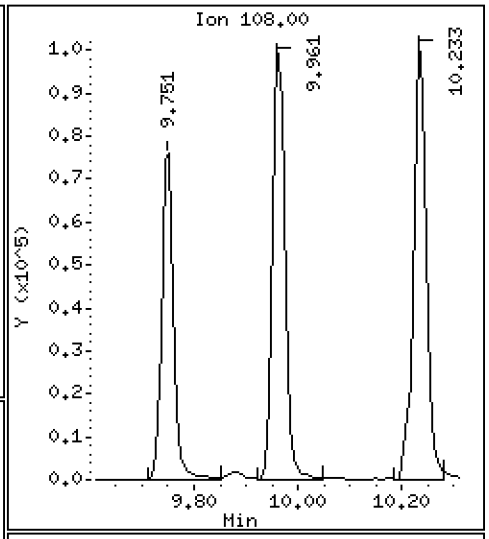
Concentration: 4.232 ug/mL

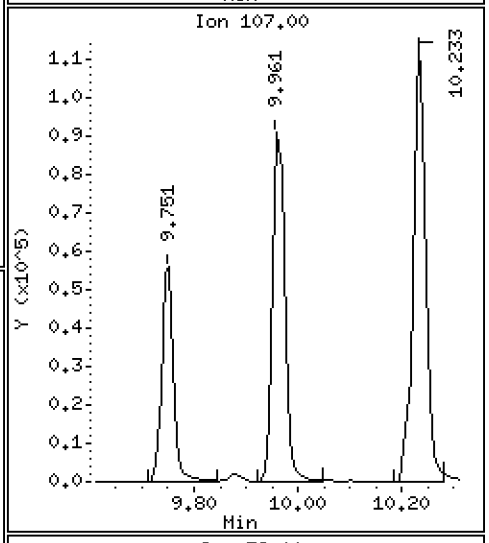


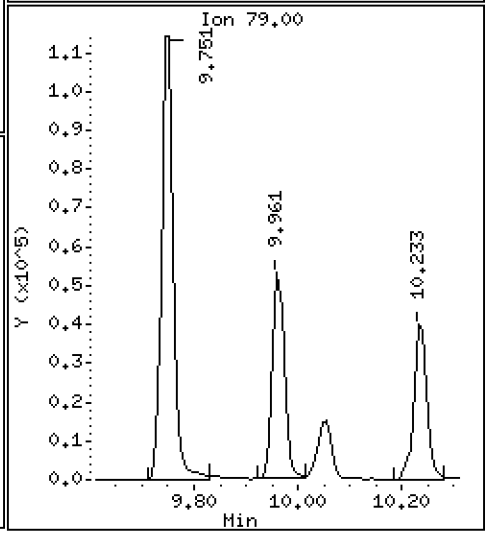












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

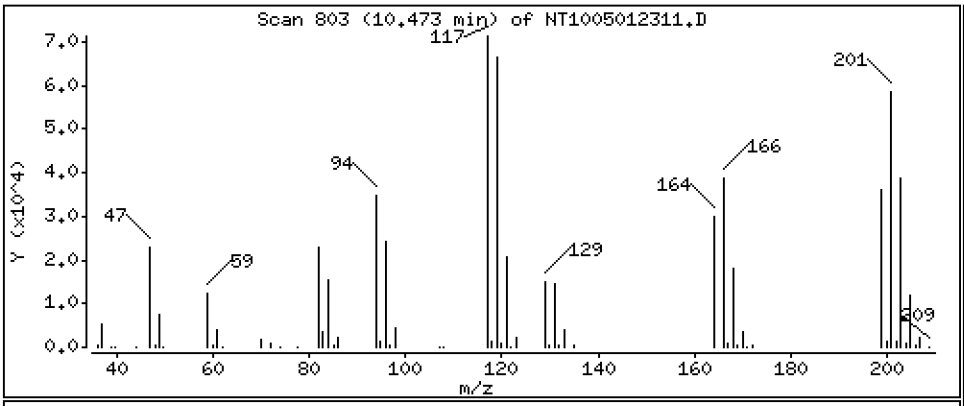
Operator: VTS

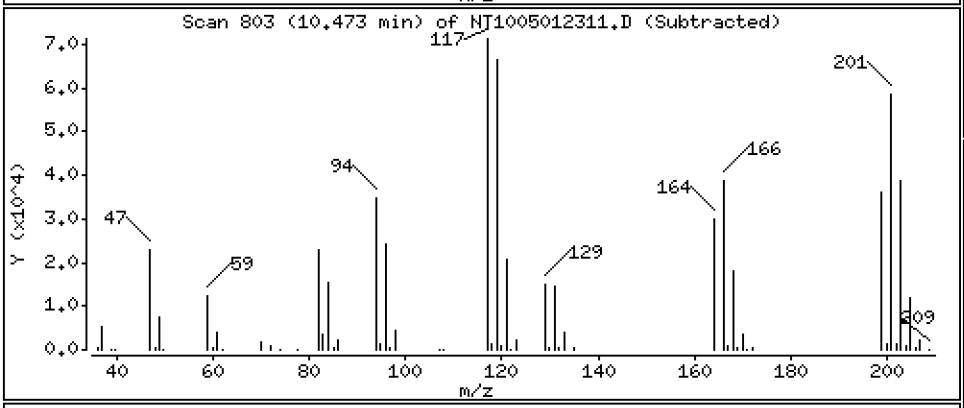
Column phase: ZB-5msi

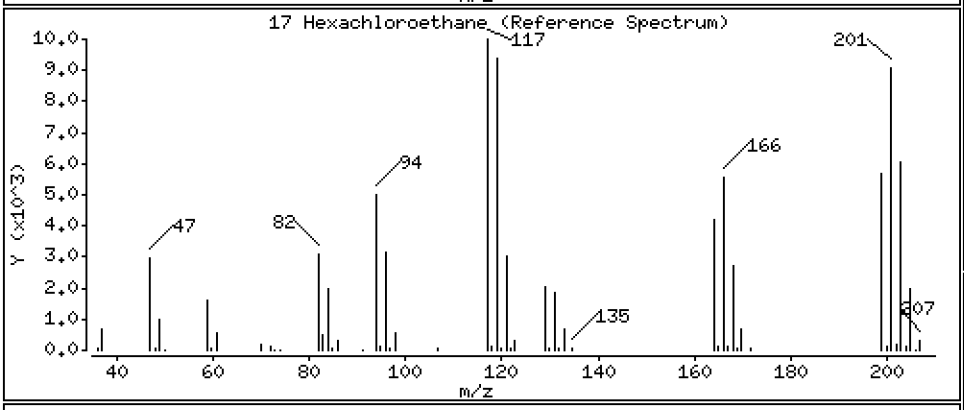
Column diameter: 0.25

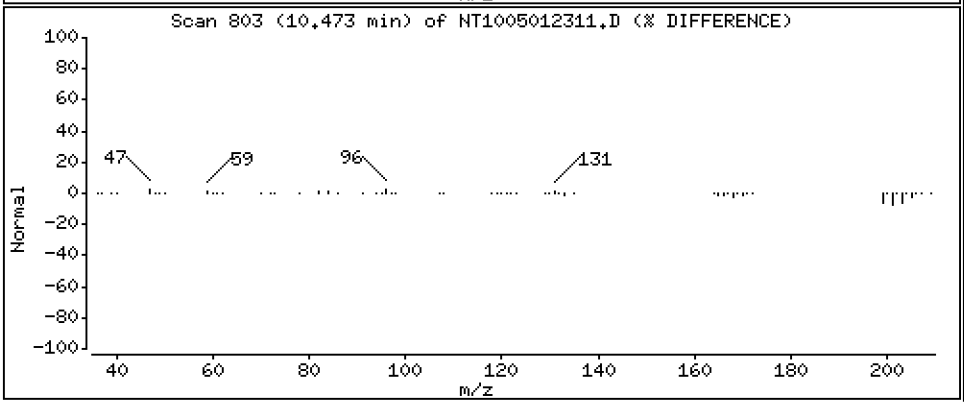
17 Hexachloroethane

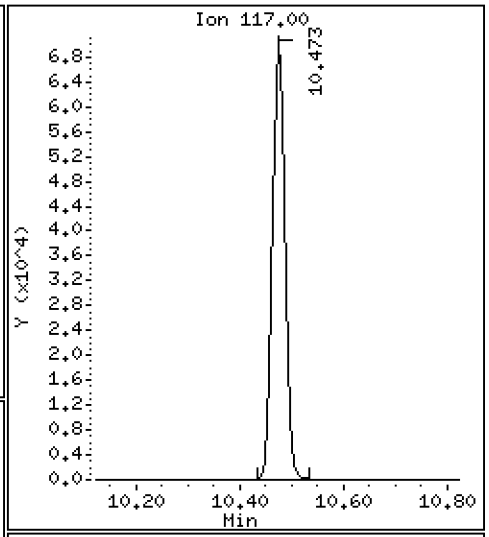
Concentration: 5.275 ug/mL

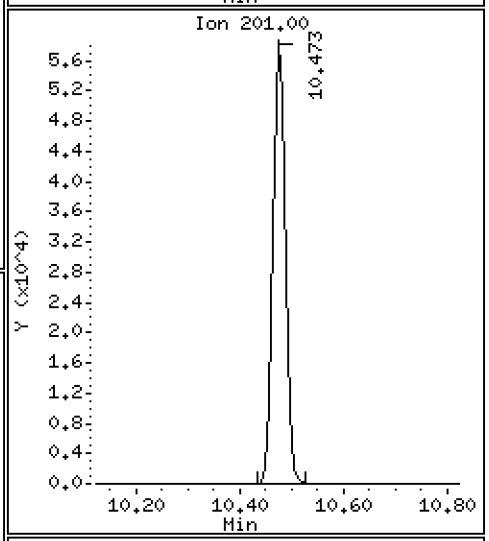


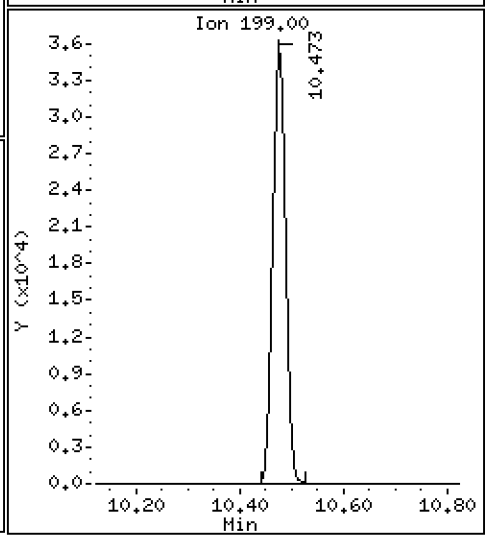












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

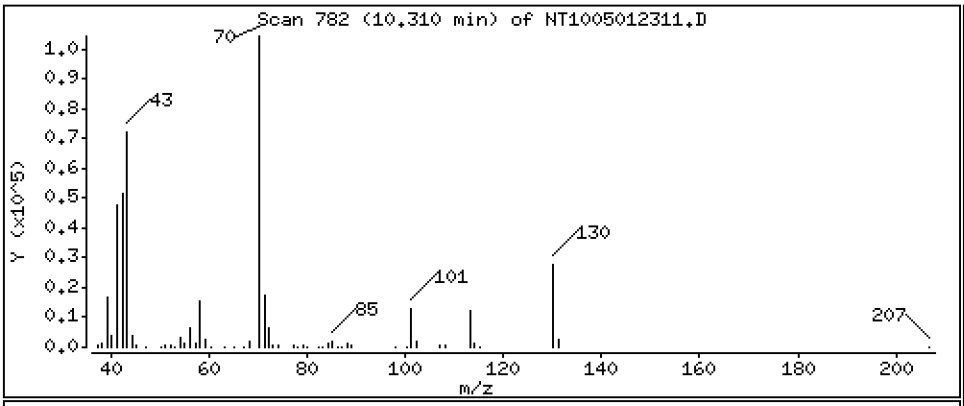
Operator: VTS

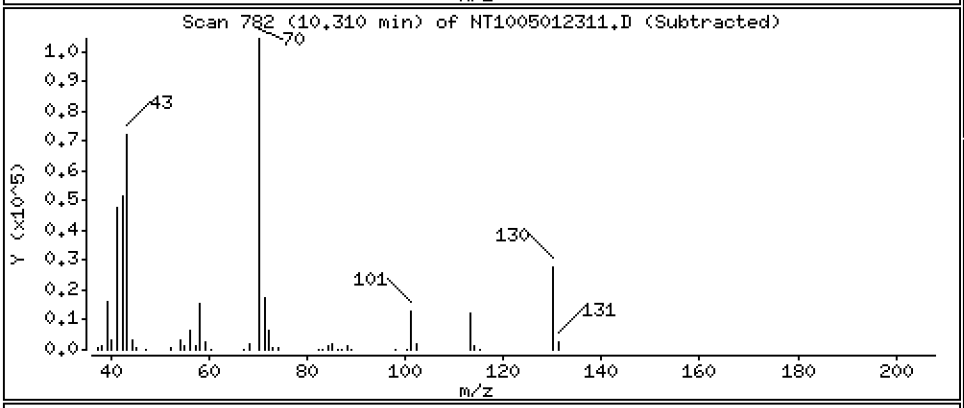
Column phase: ZB-5msi

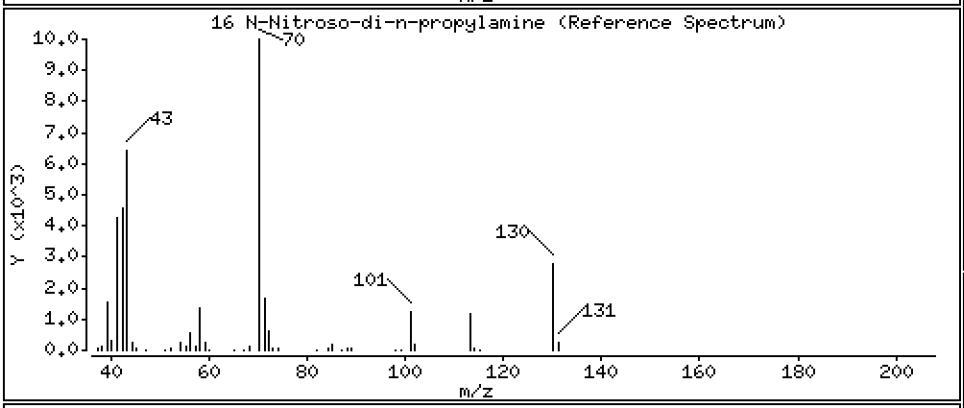
Column diameter: 0.25

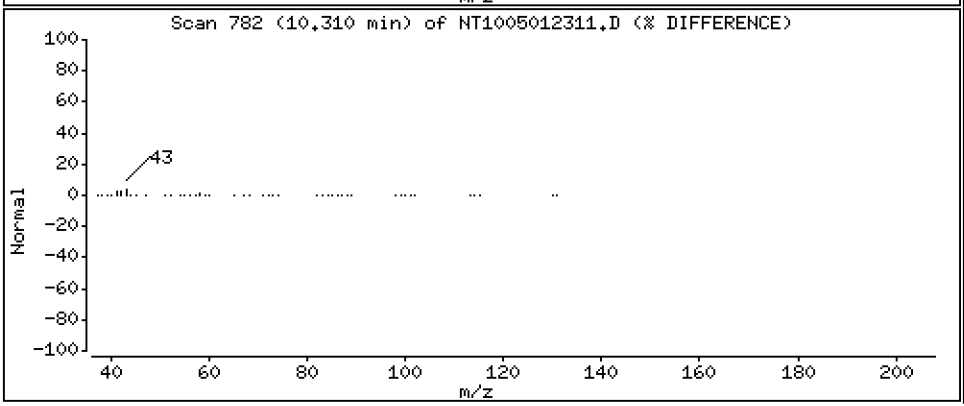
16 N-Nitroso-di-n-propylamine

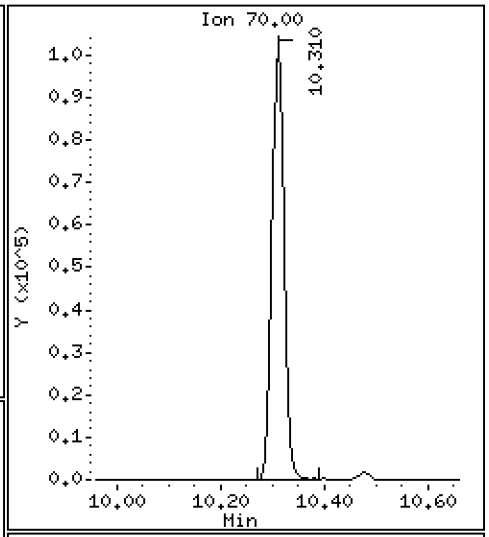
Concentration: 5.386 ug/mL

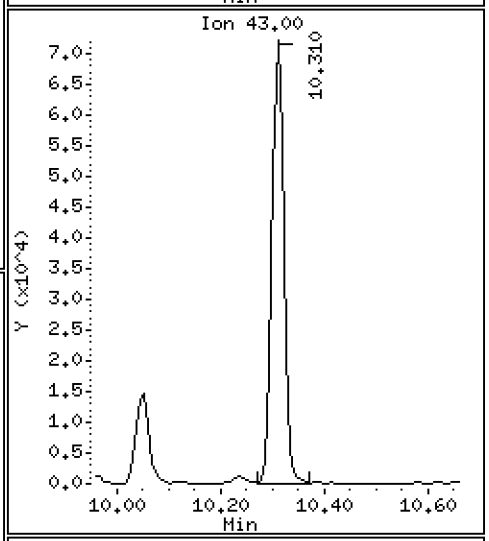


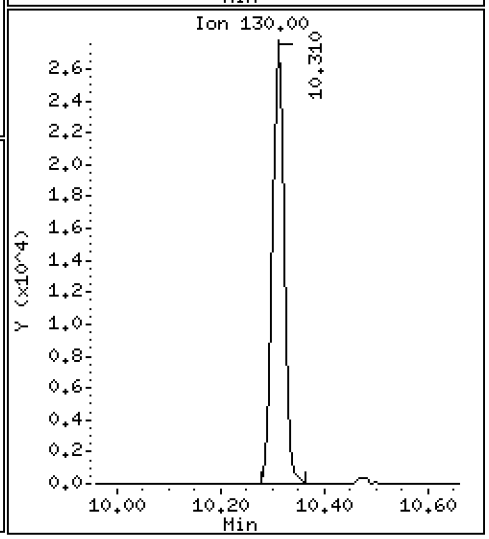












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

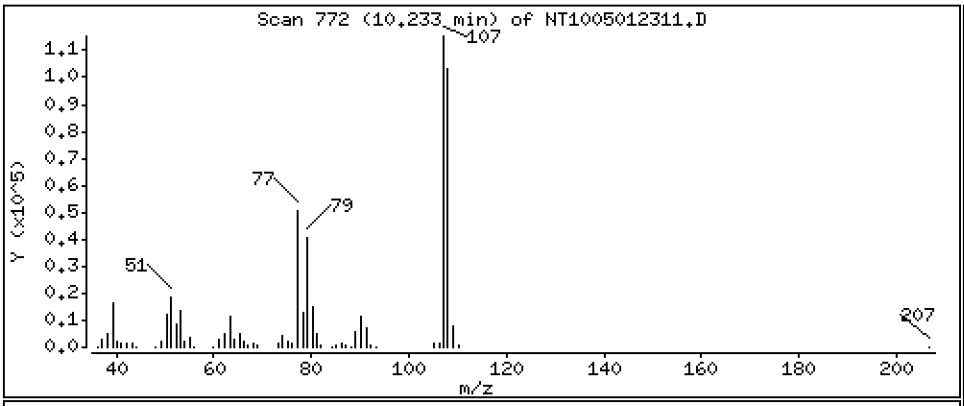
Operator: VTS

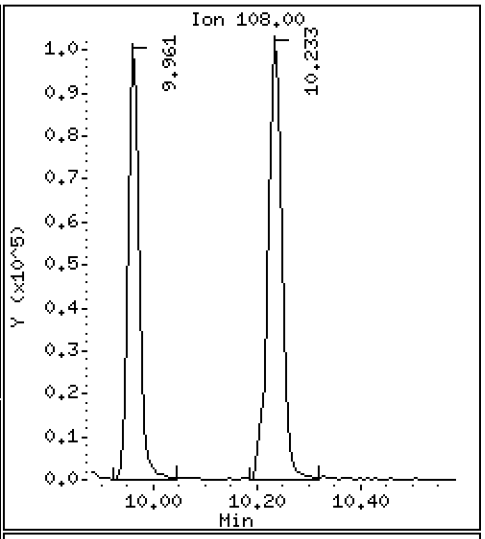
Column phase: ZB-5msi

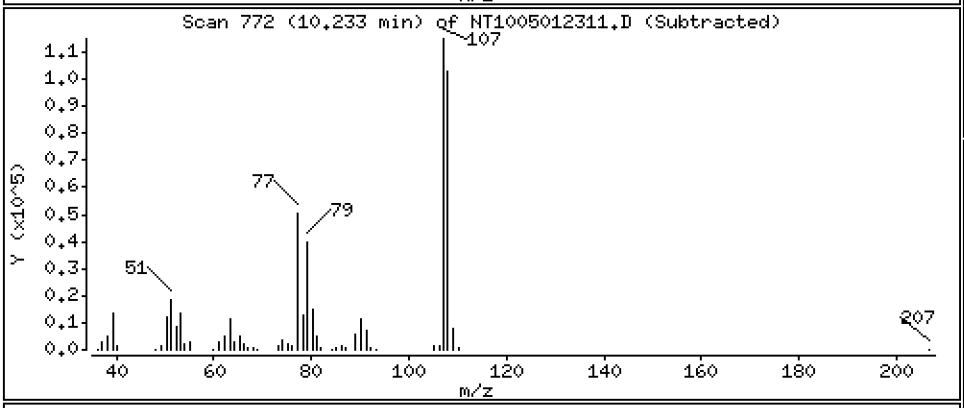
Column diameter: 0.25

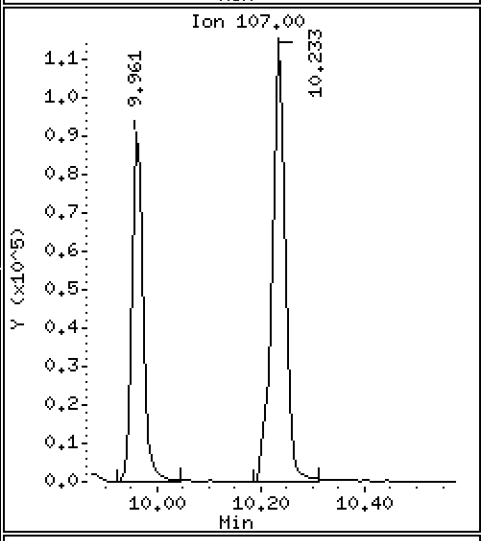
15 4-Methylphenol

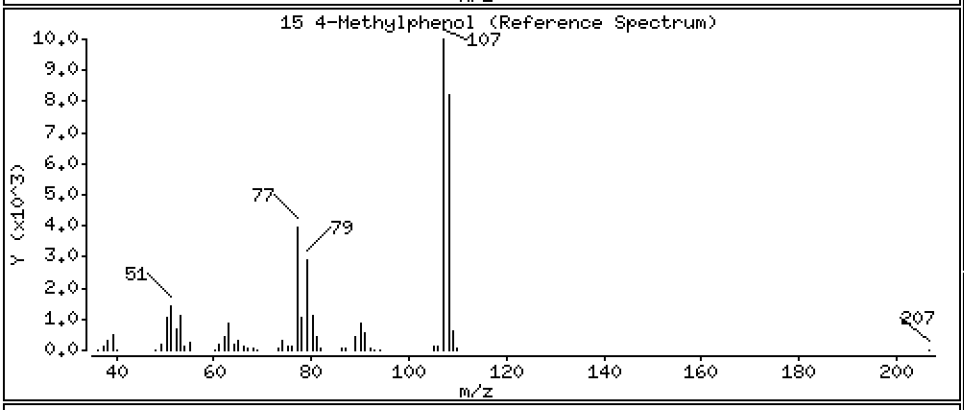
Concentration: 4.441 ug/mL

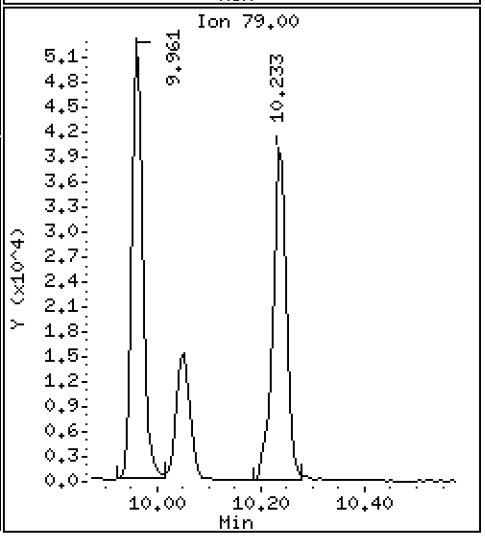


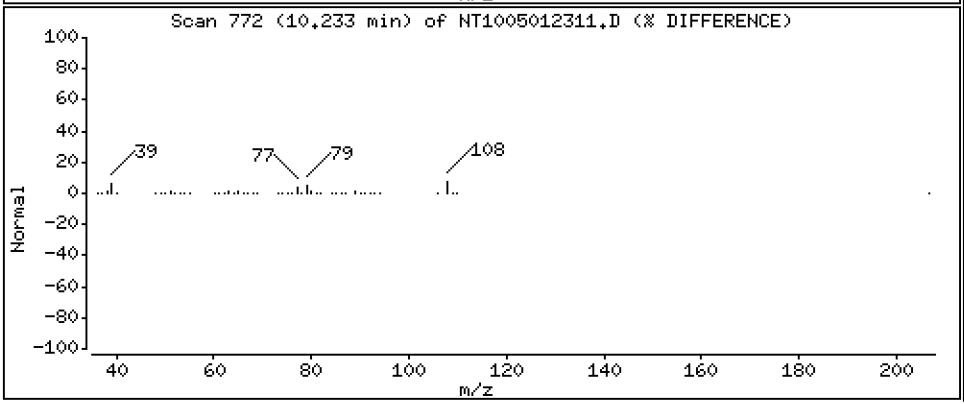












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

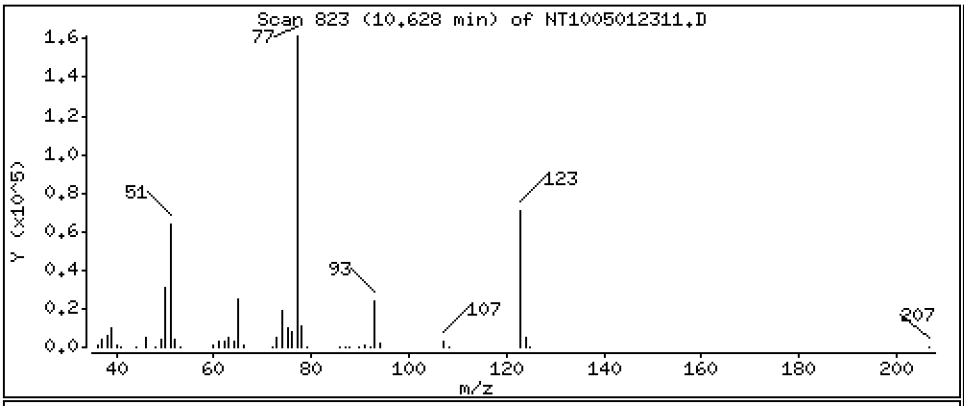
Operator: VTS

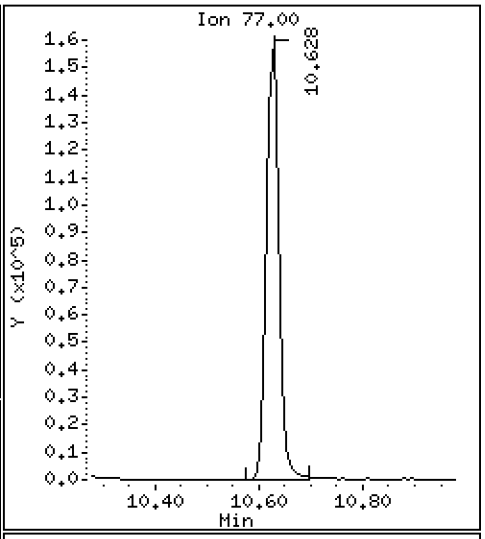
Column phase: ZB-5msi

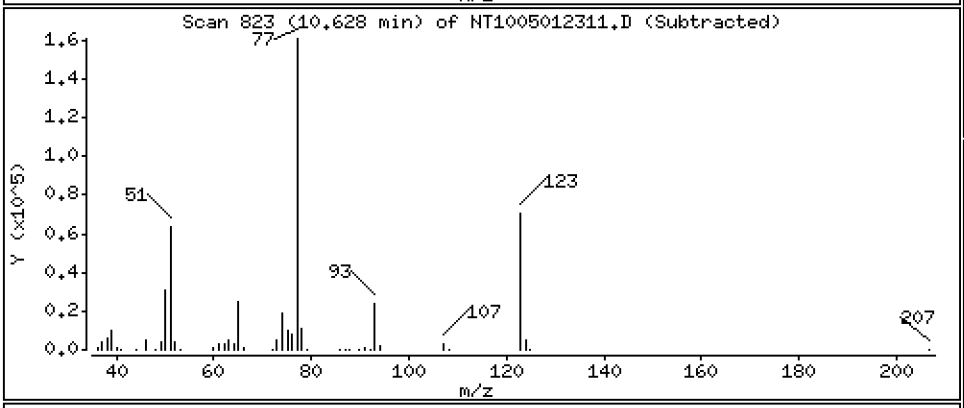
Column diameter: 0.25

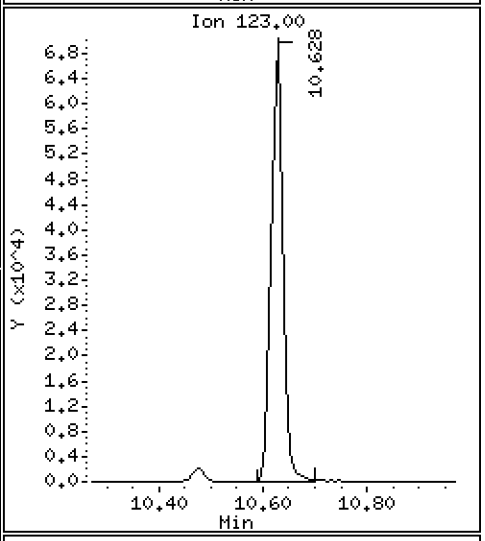
19 Nitrobenzene

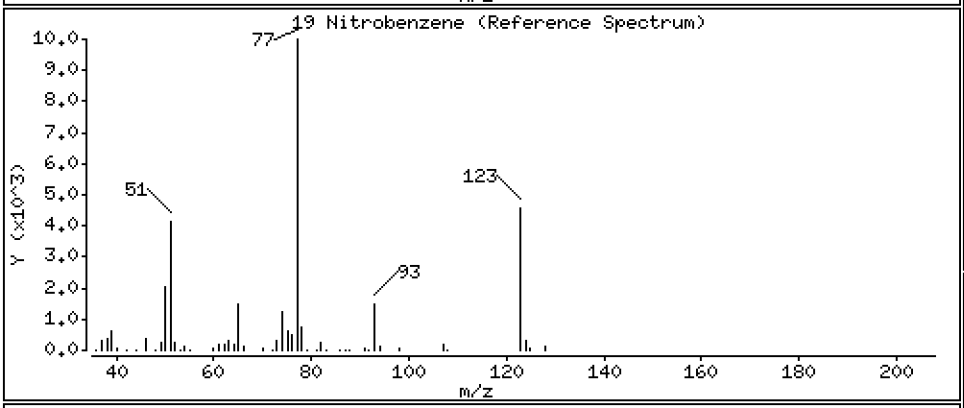
Concentration: 4.970 ug/mL

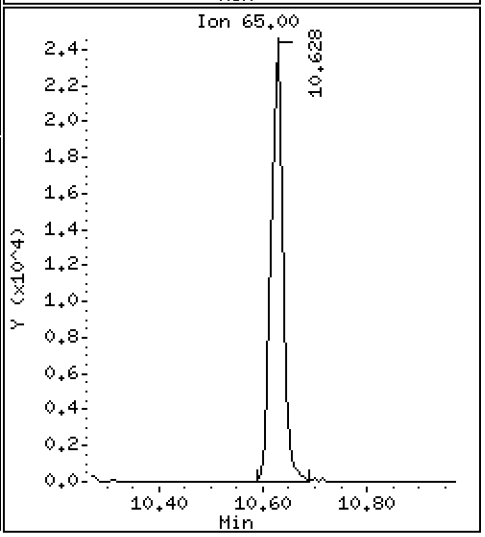


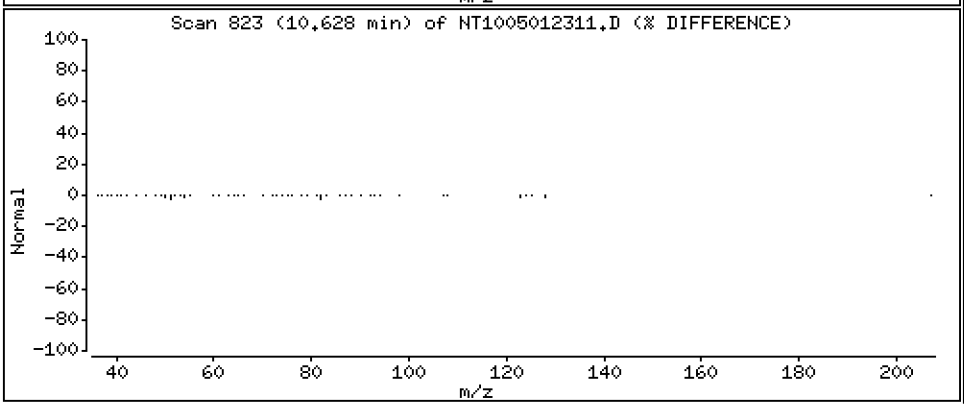












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

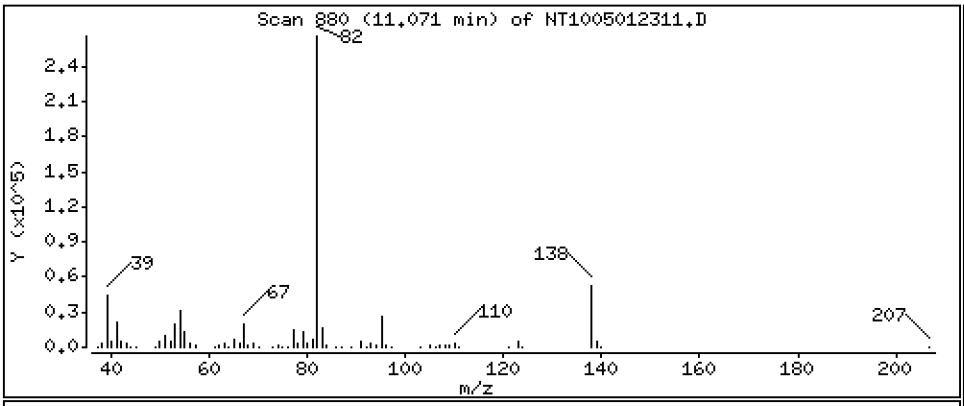
Operator: VTS

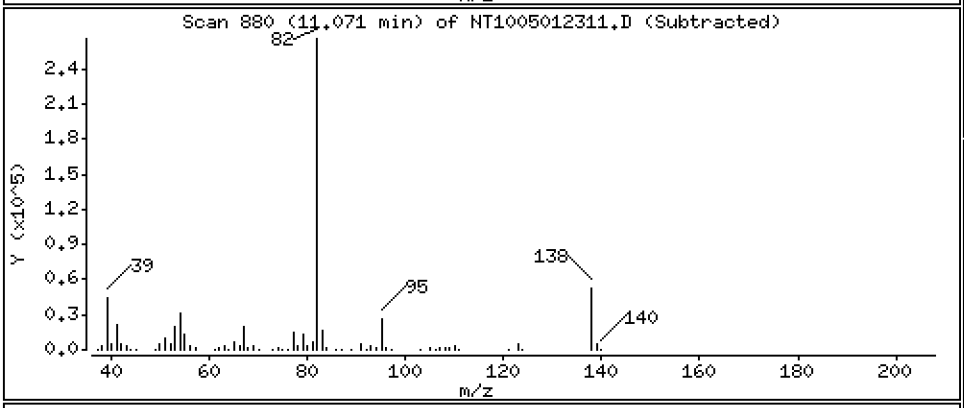
Column phase: ZB-5msi

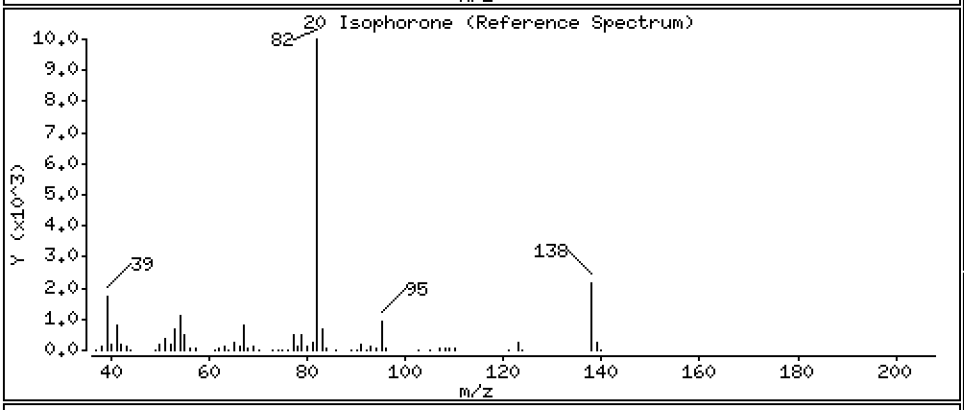
Column diameter: 0.25

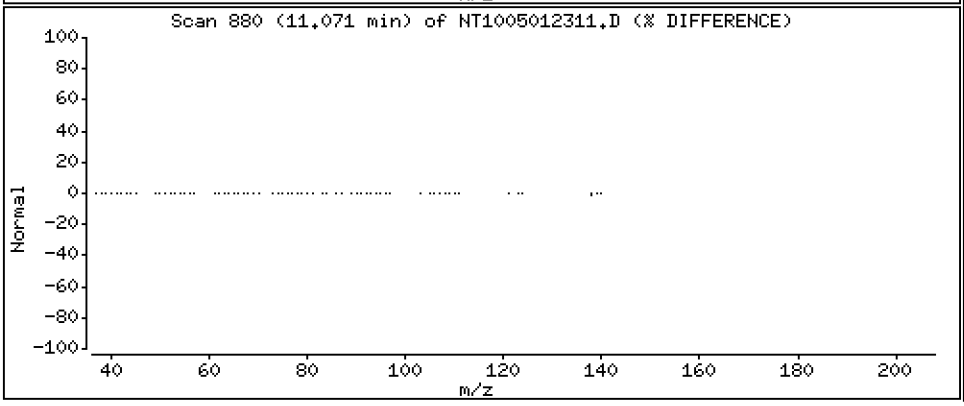
20 Isophorone

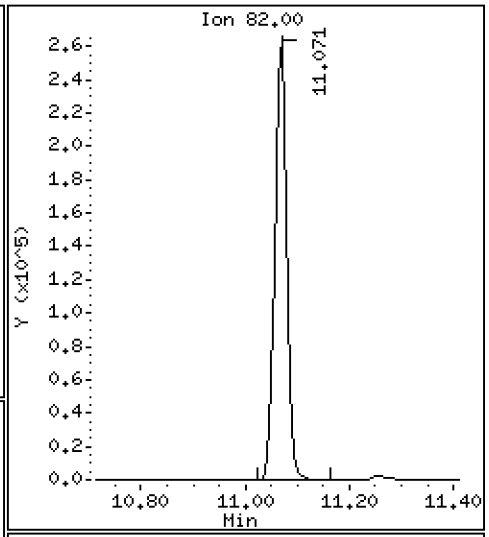
Concentration: 7.878 ug/mL

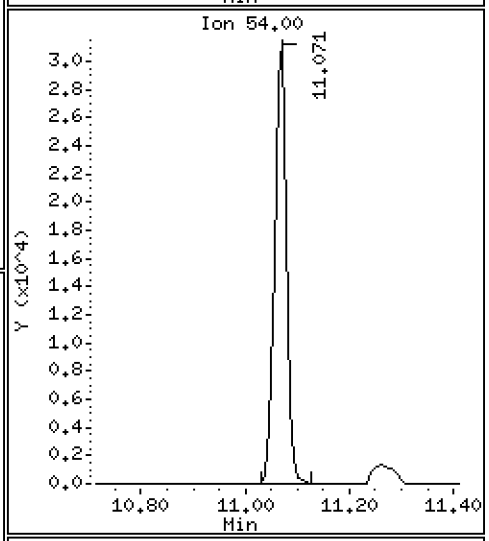


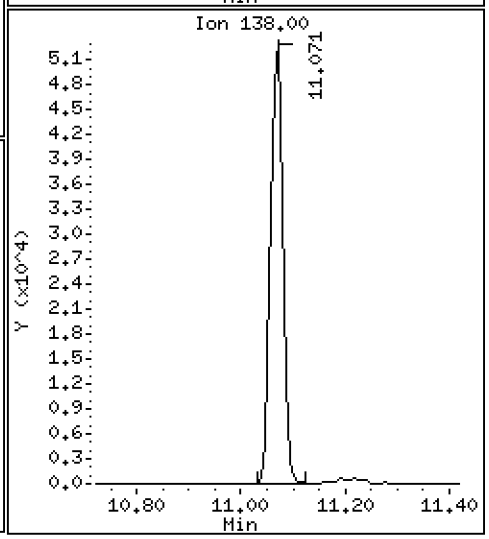












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

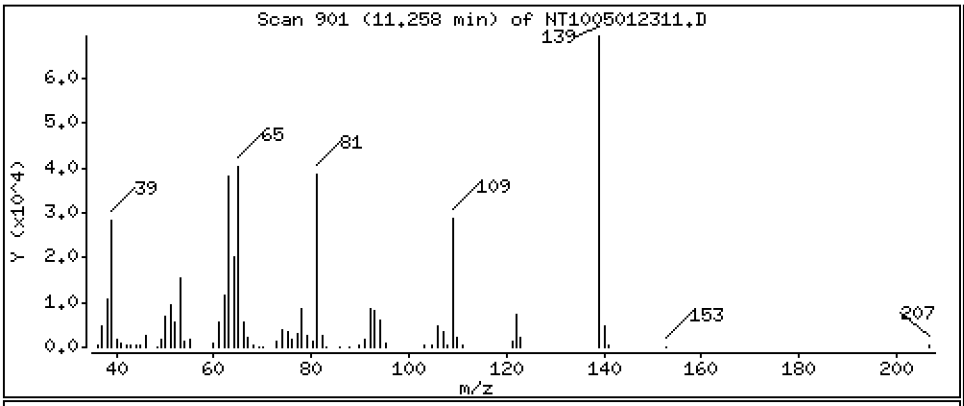
Operator: VTS

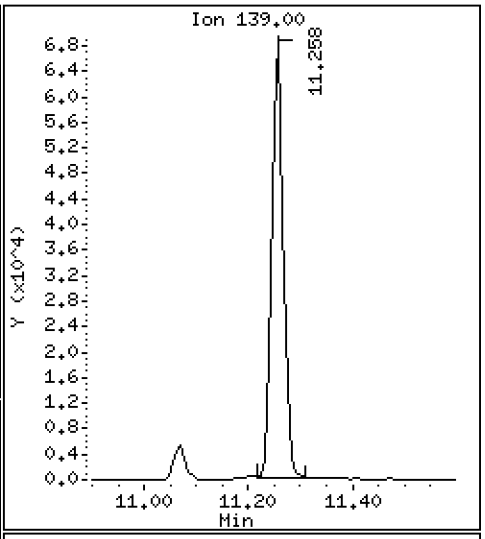
Column phase: ZB-5msi

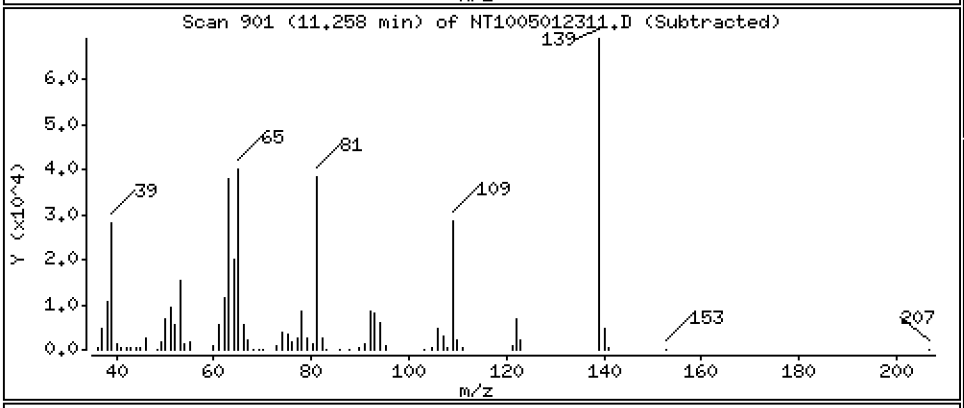
Column diameter: 0.25

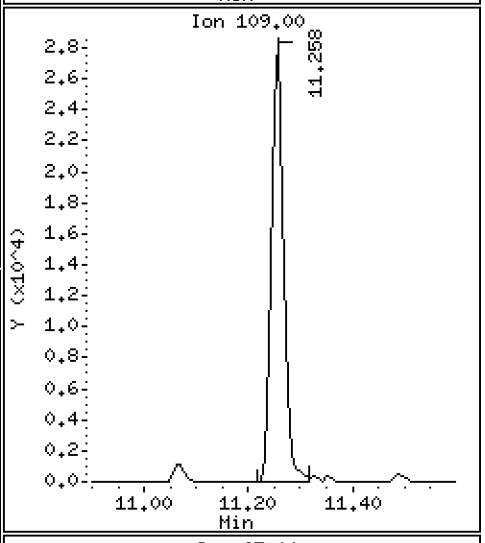
21 2-Nitrophenol

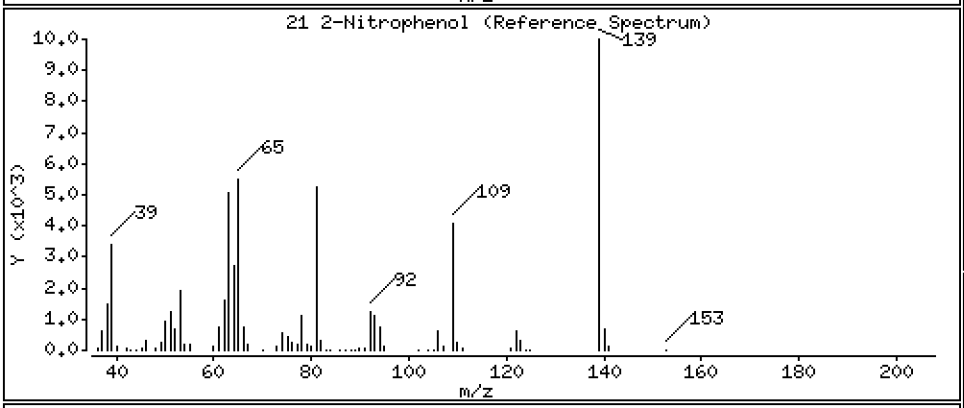
Concentration: 3.896 ug/mL

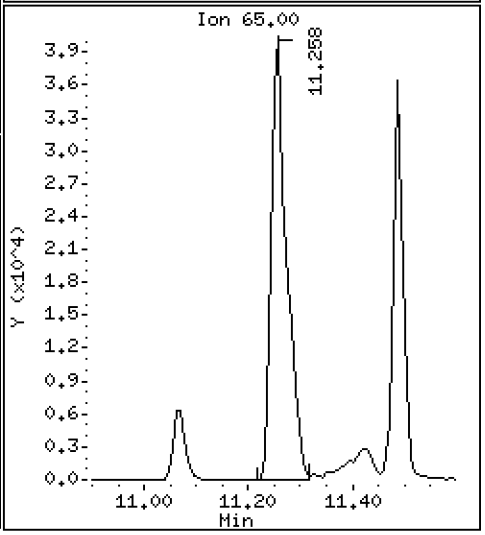


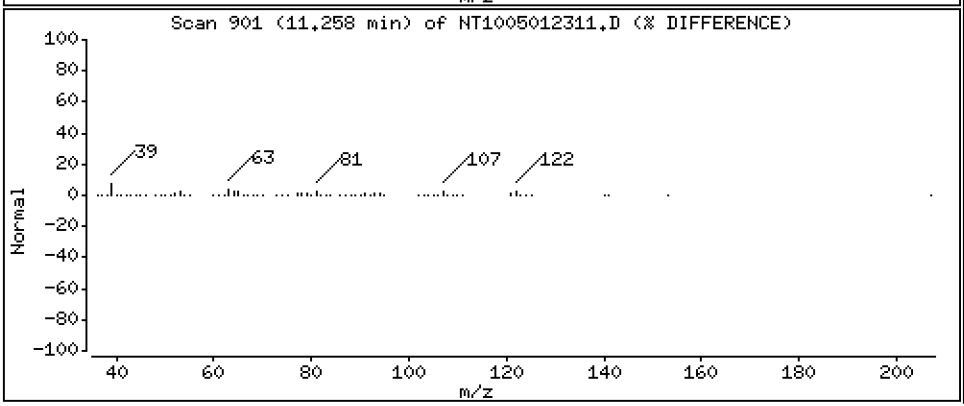












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

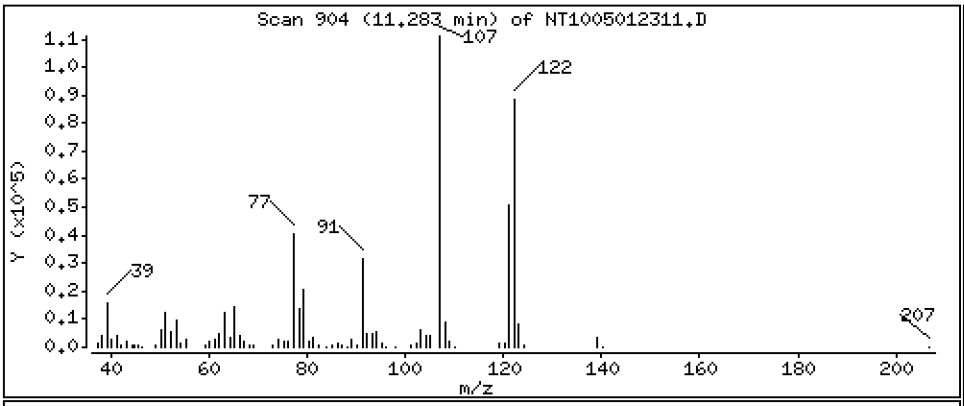
Operator: VTS

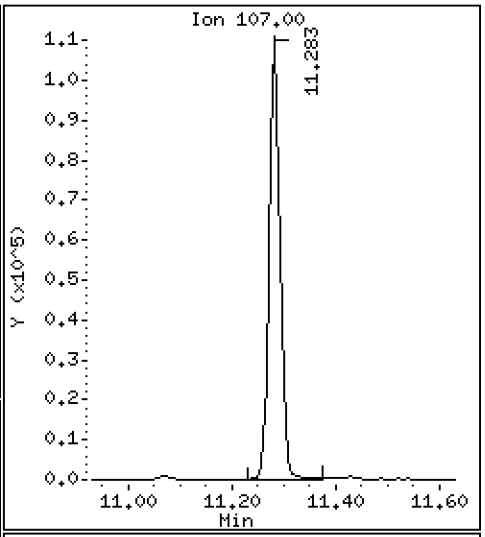
Column phase: ZB-5msi

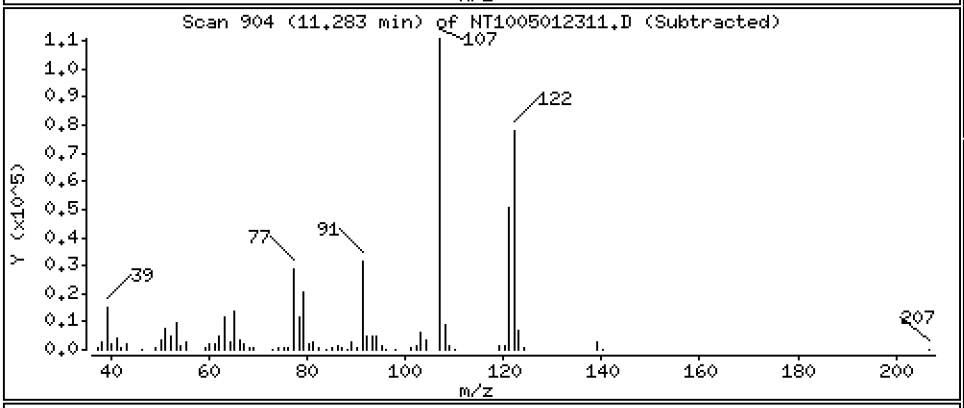
Column diameter: 0.25

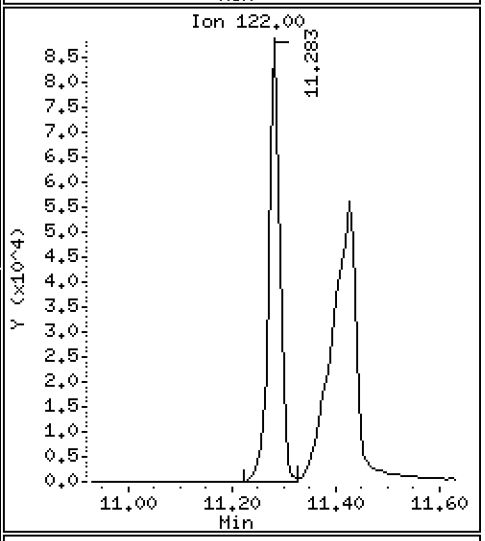
22 2,4-Dimethylphenol

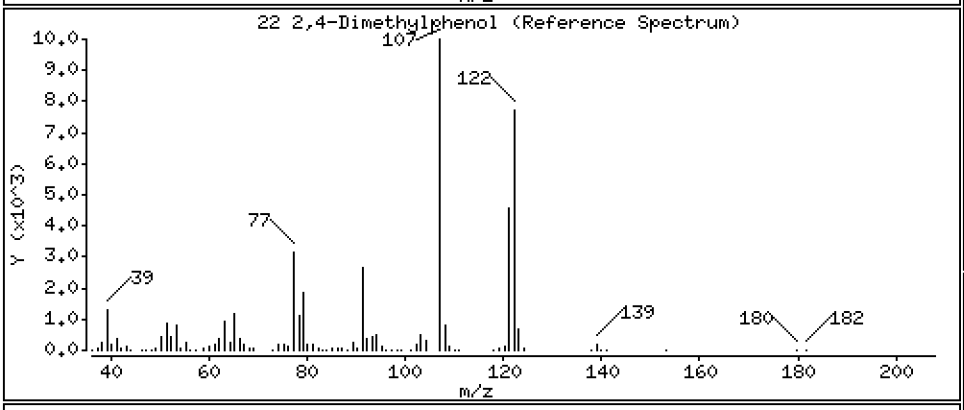
Concentration: 3.424 ug/mL

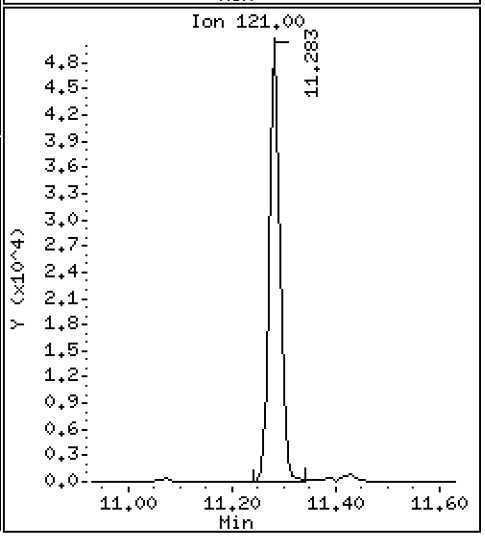


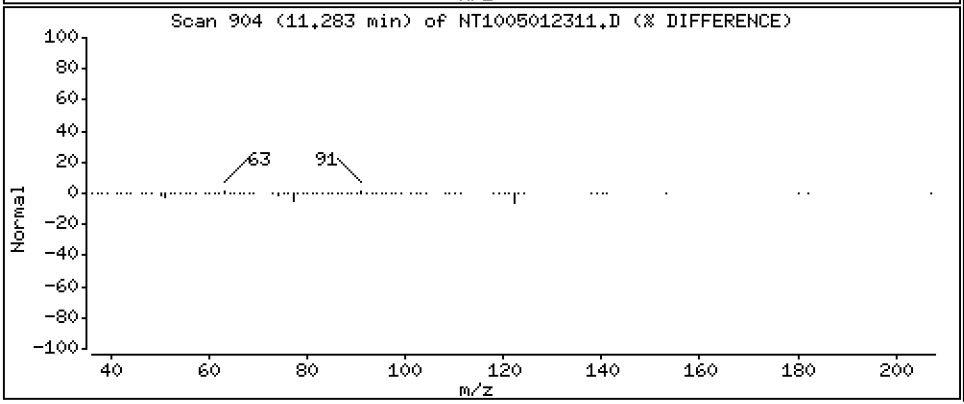












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

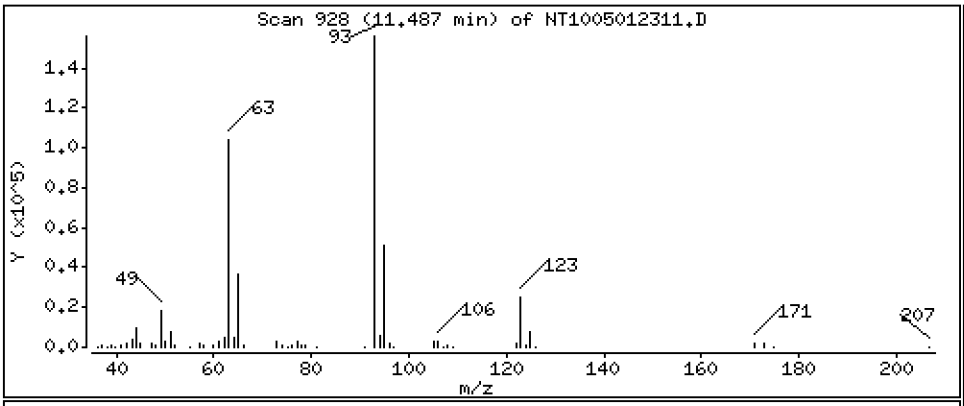
Operator: VTS

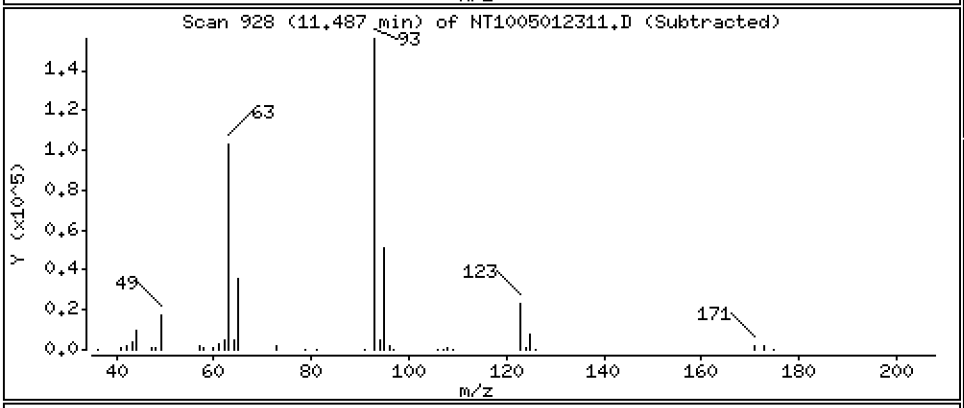
Column phase: ZB-5msi

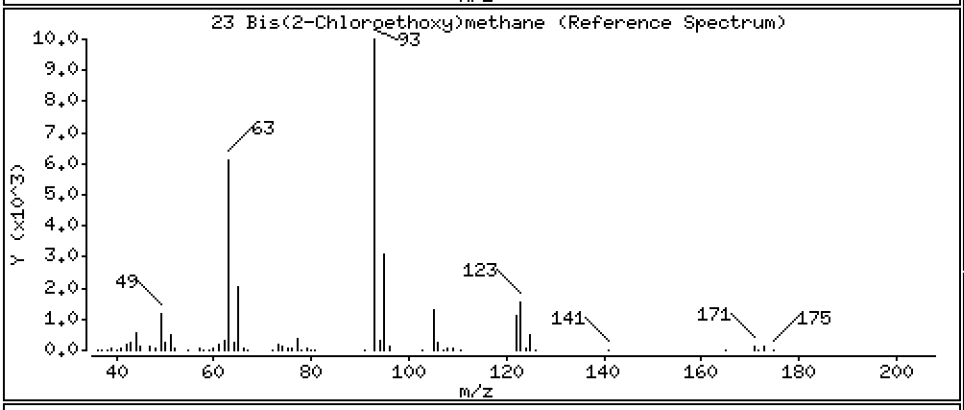
Column diameter: 0.25

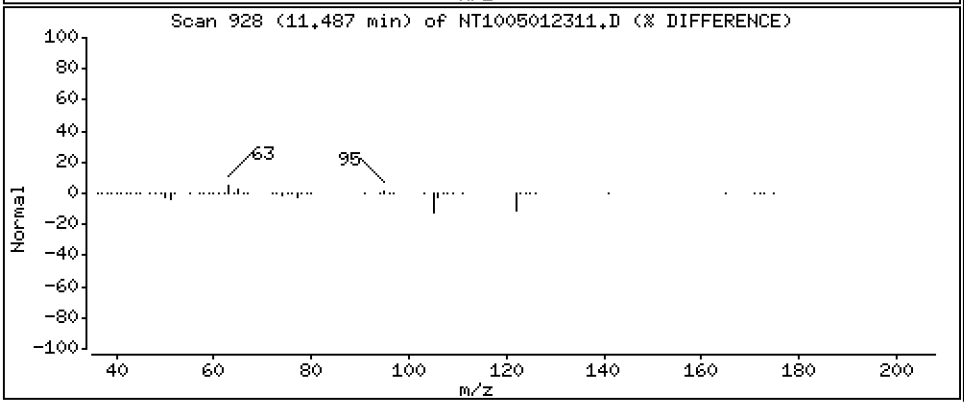
23 Bis(2-Chloroethoxy)methane

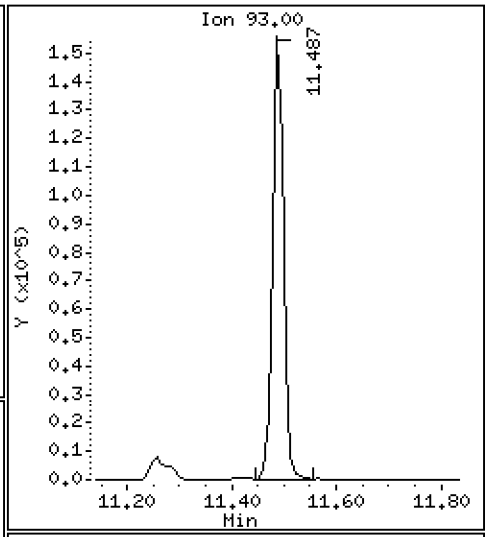
Concentration: 5.736 ug/mL

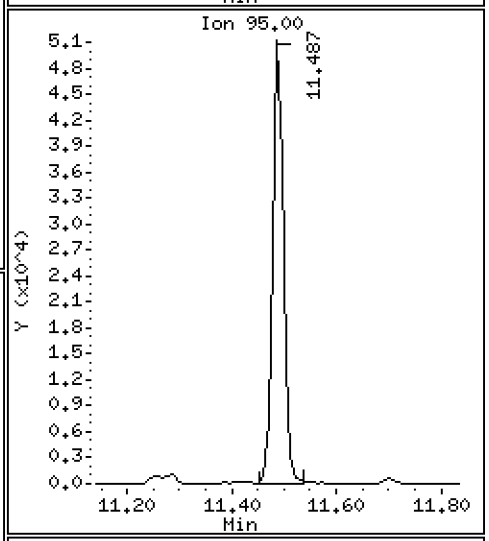


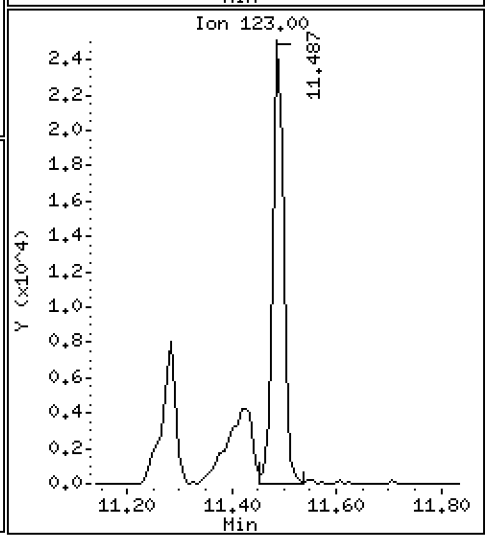












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

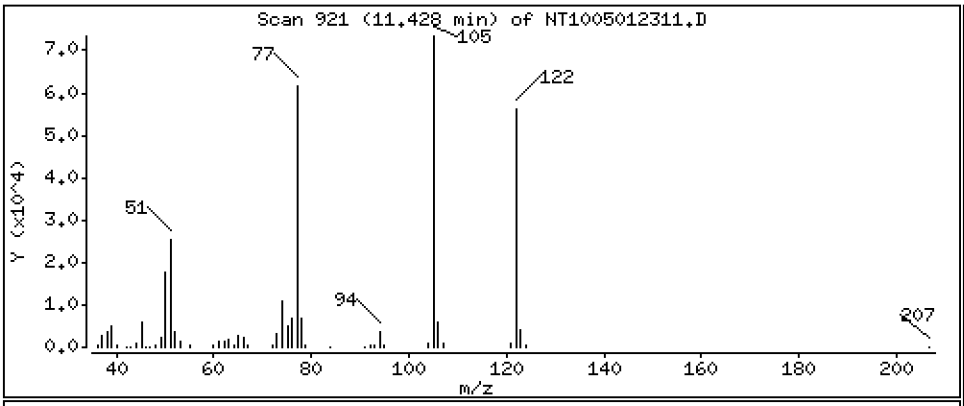
Operator: VTS

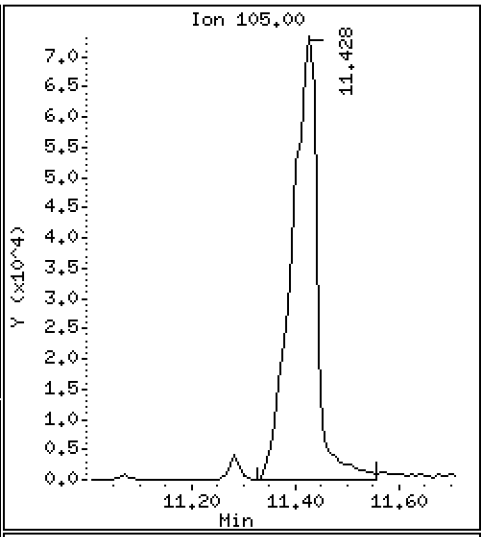
Column phase: ZB-5msi

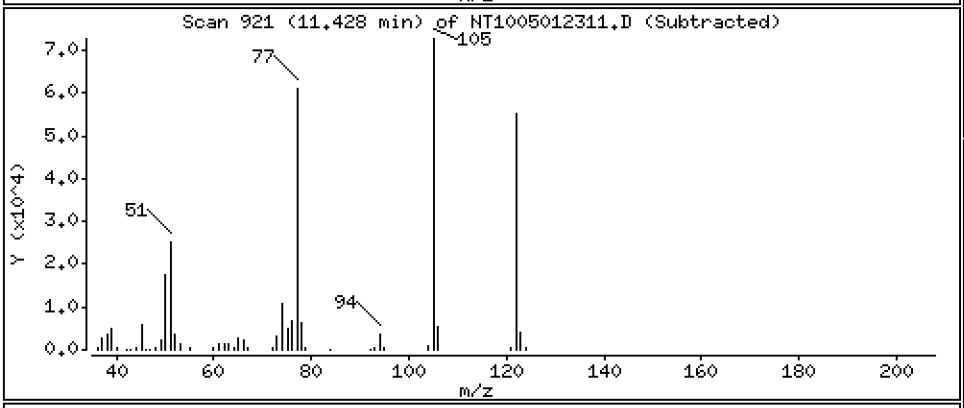
Column diameter: 0.25

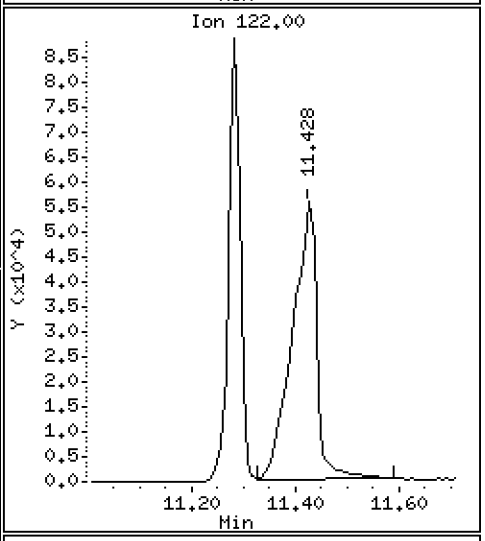
24 Benzoic acid

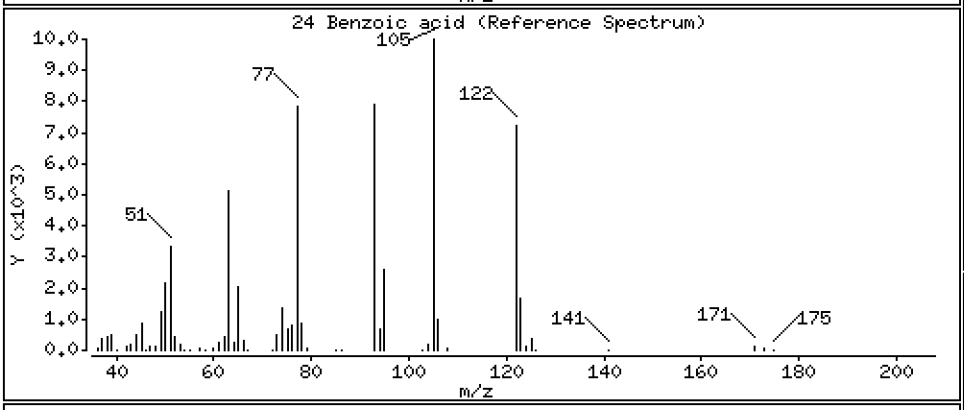
Concentration: 7.386 ug/mL

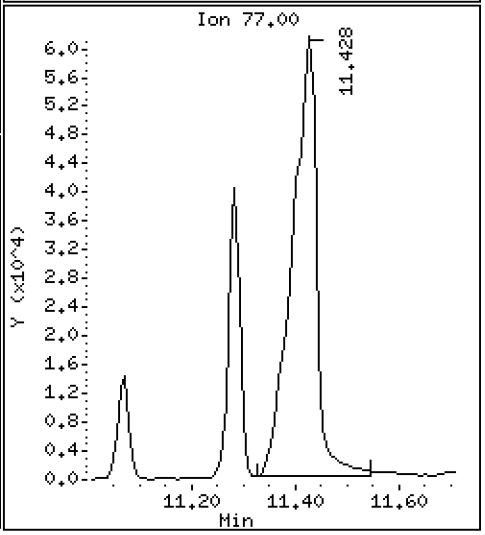


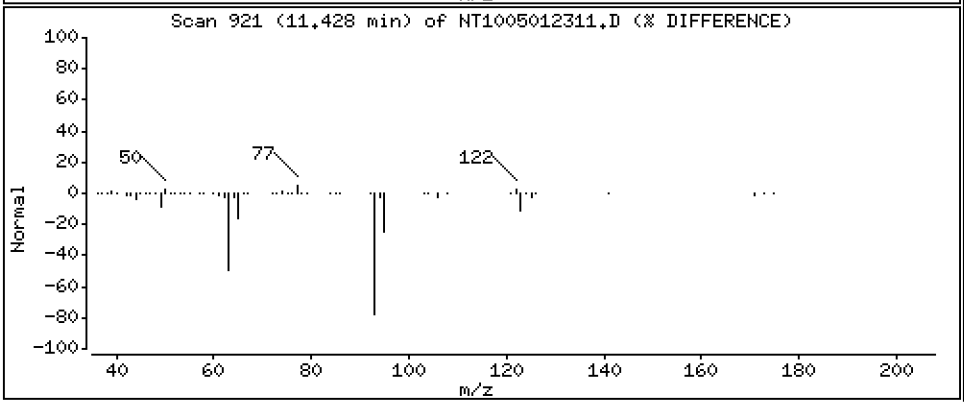












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

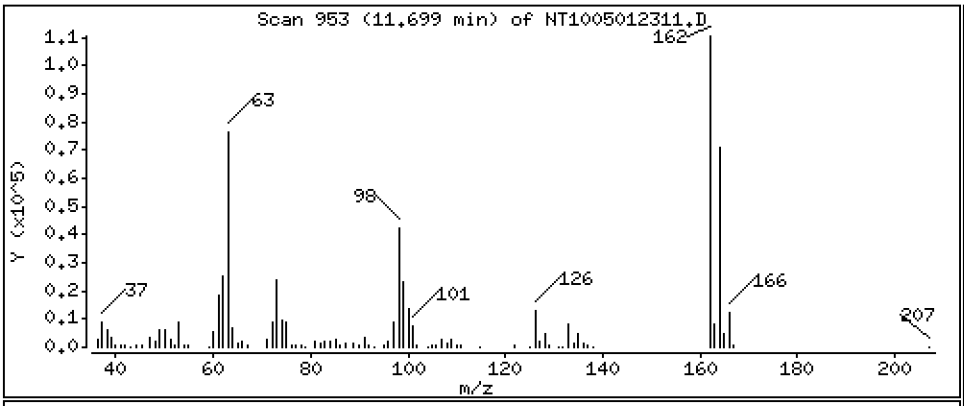
Operator: VTS

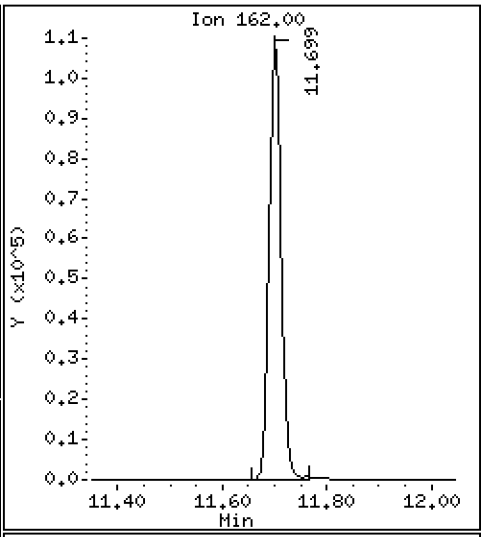
Column phase: ZB-5msi

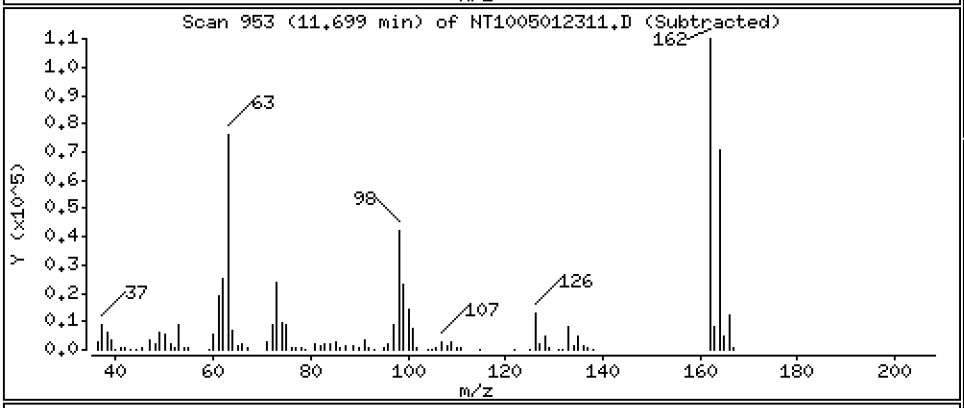
Column diameter: 0.25

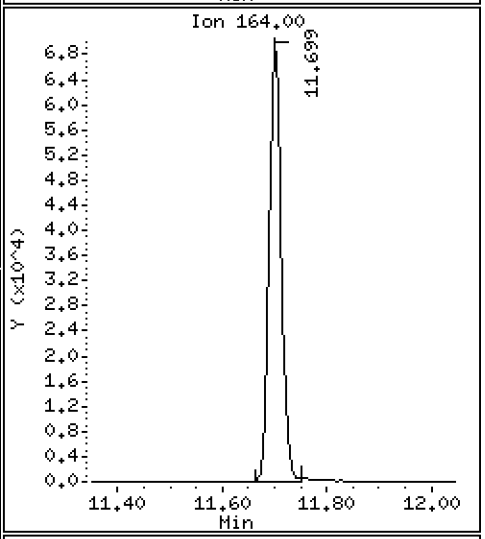
25 2,4-Dichlorophenol

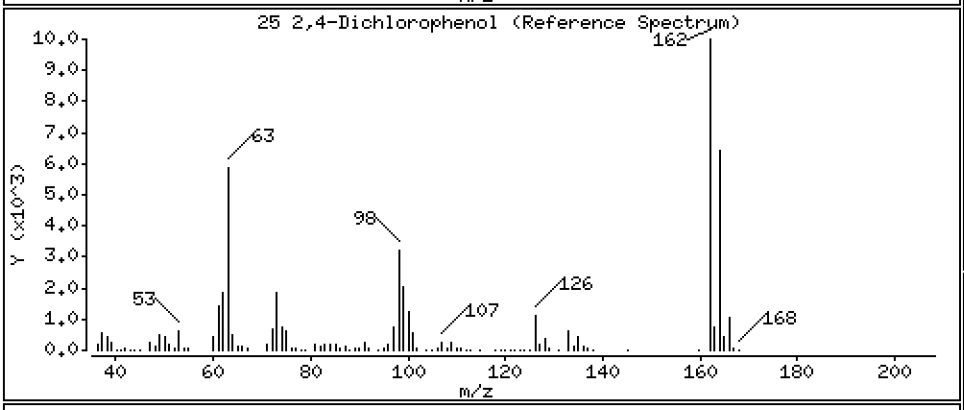
Concentration: 4.480 ug/mL

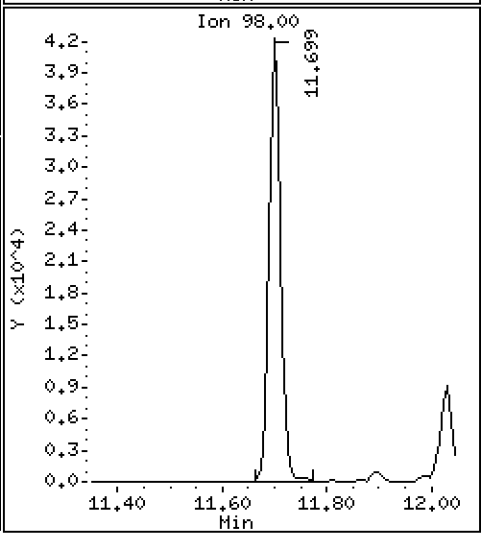


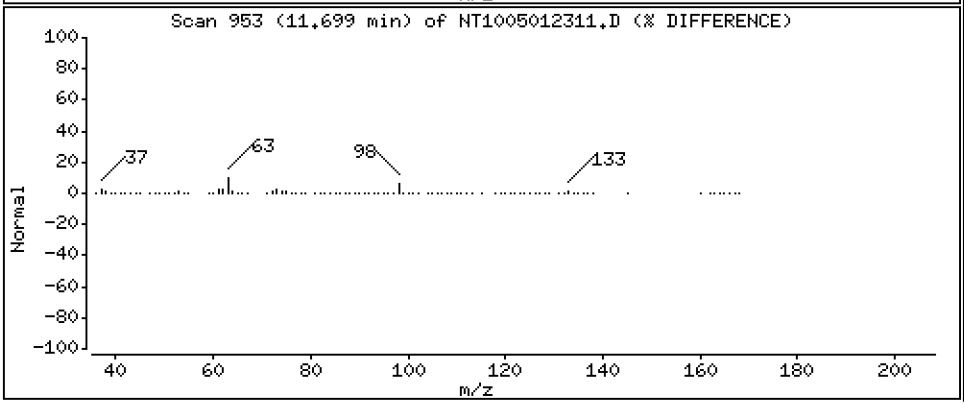












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

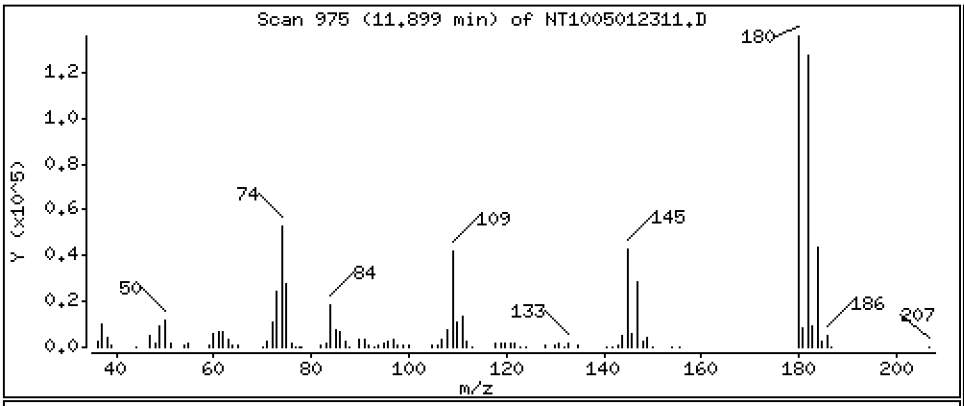
Operator: VTS

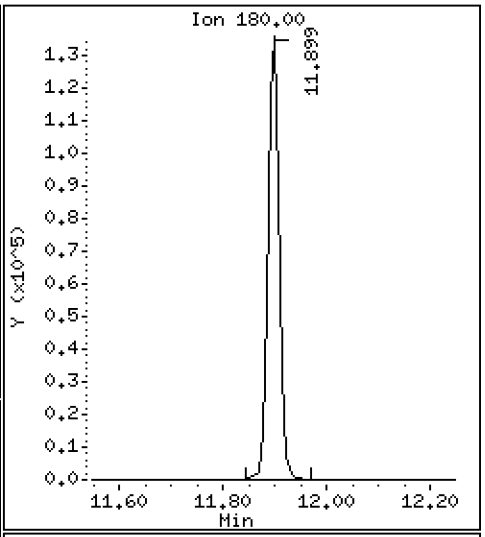
Column phase: ZB-5msi

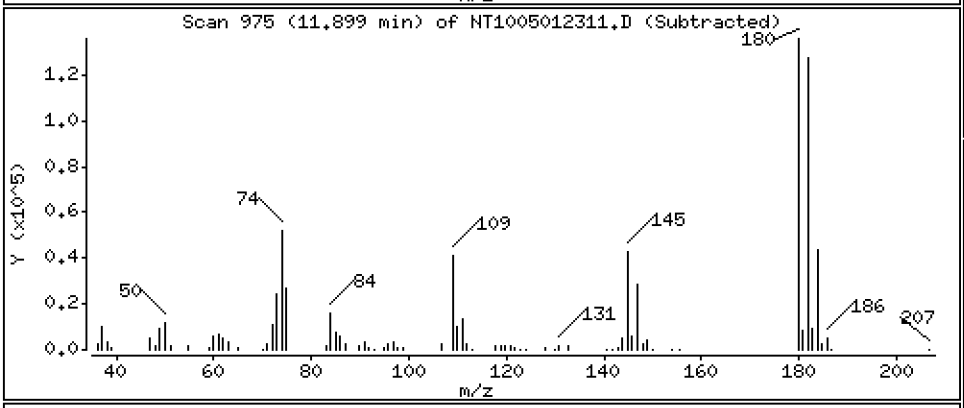
Column diameter: 0.25

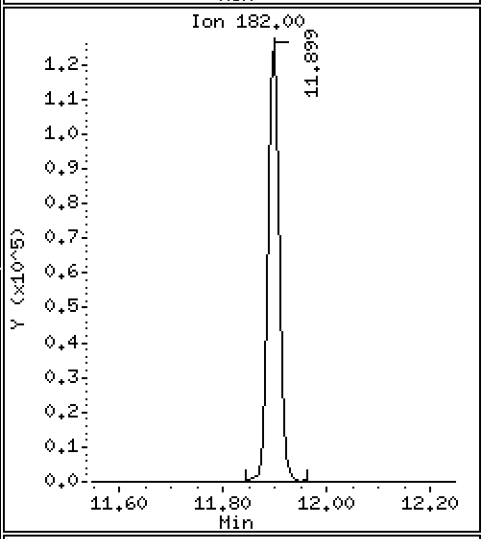
26 1,2,4-Trichlorobenzene

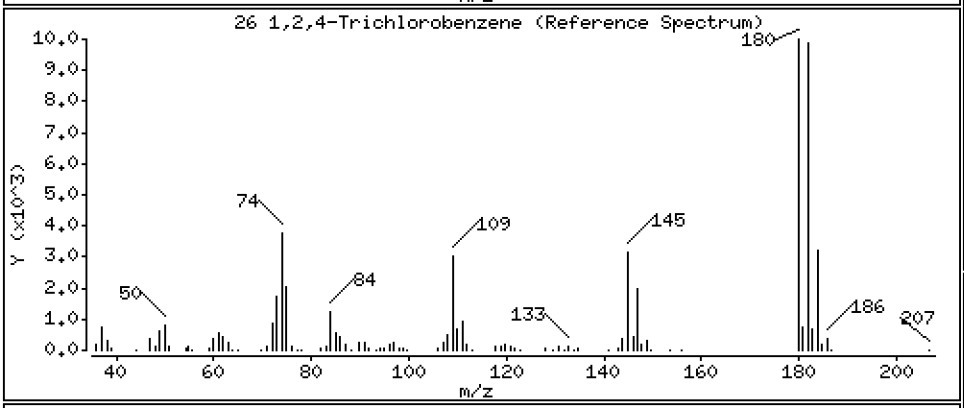
Concentration: 4.378 ug/mL

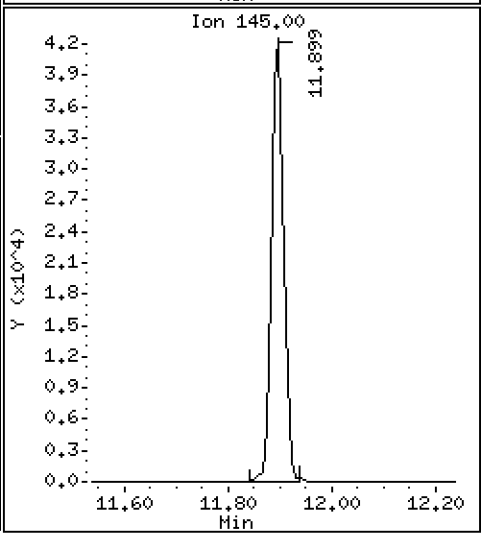


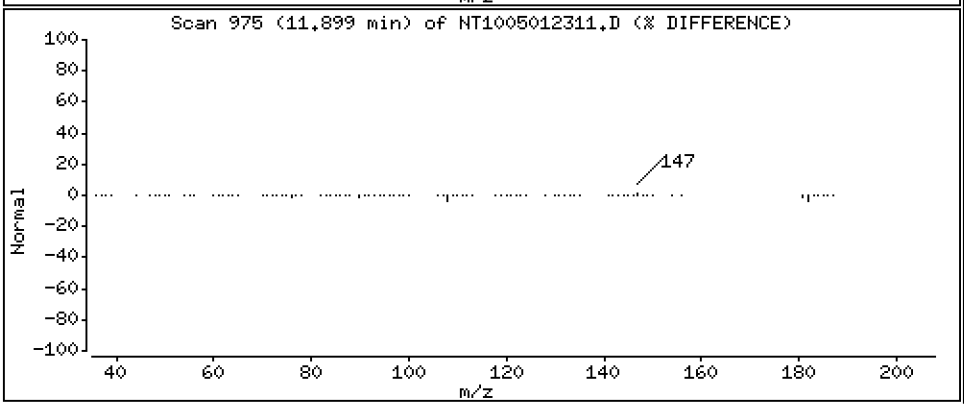












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

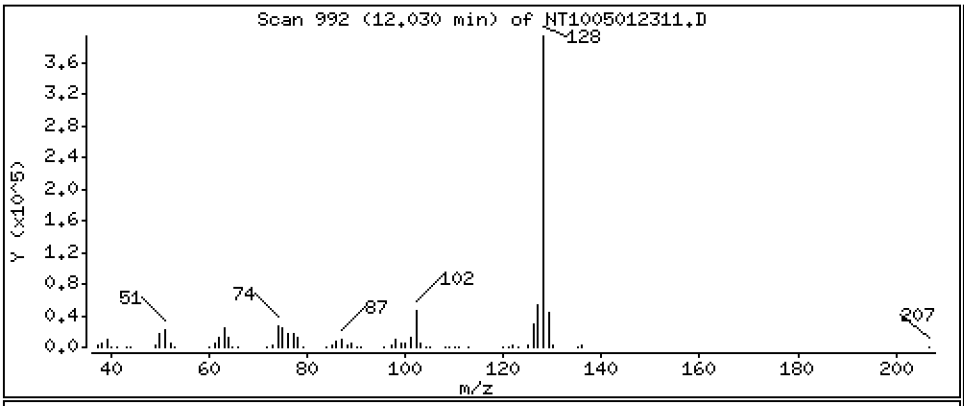
Operator: VTS

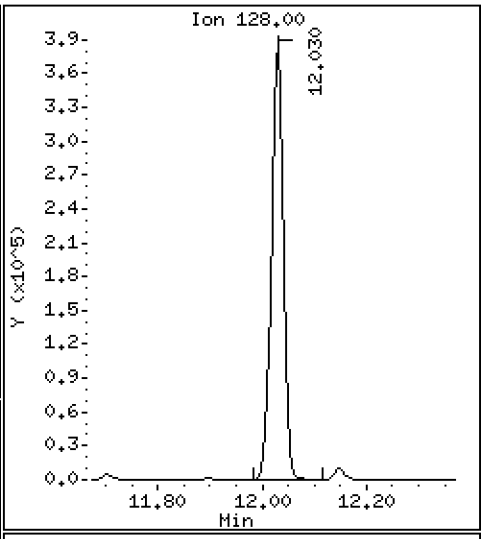
Column phase: ZB-5msi

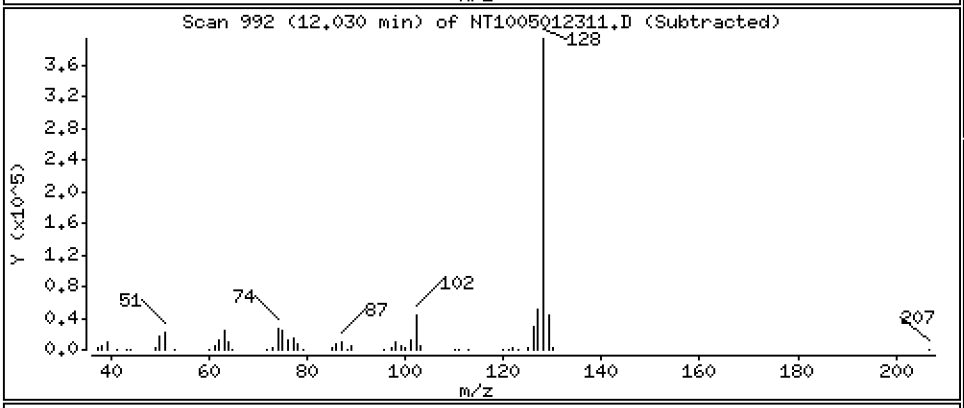
Column diameter: 0.25

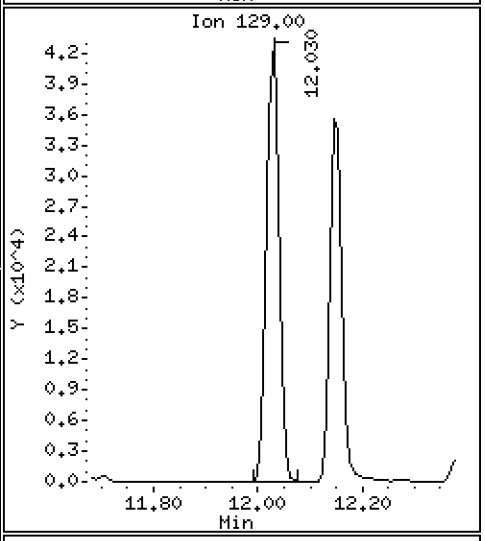
28 Naphthalene

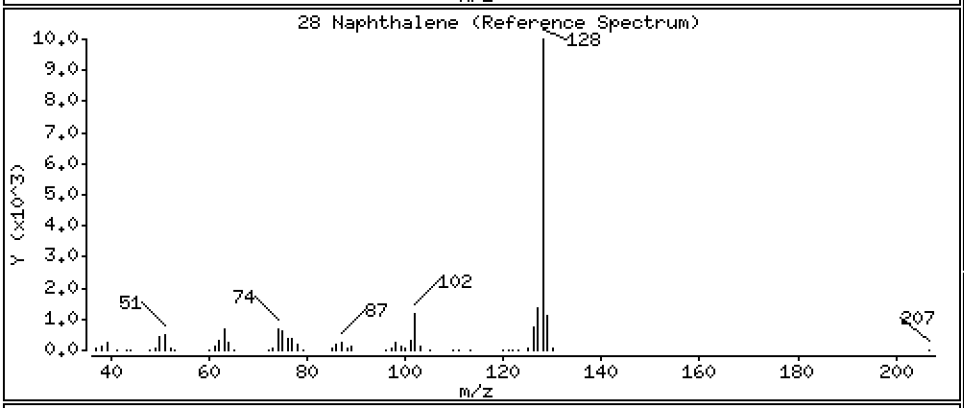
Concentration: 4.742 ug/mL

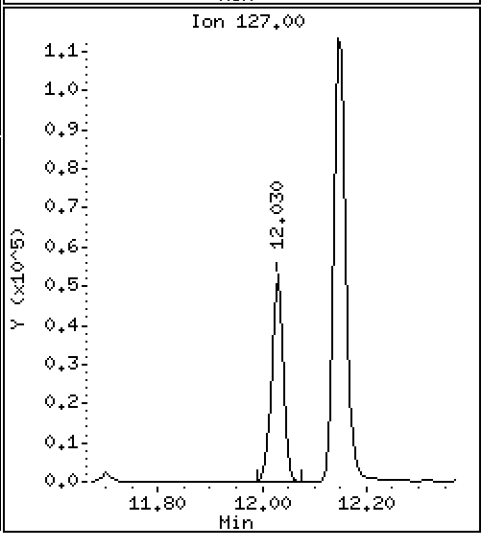


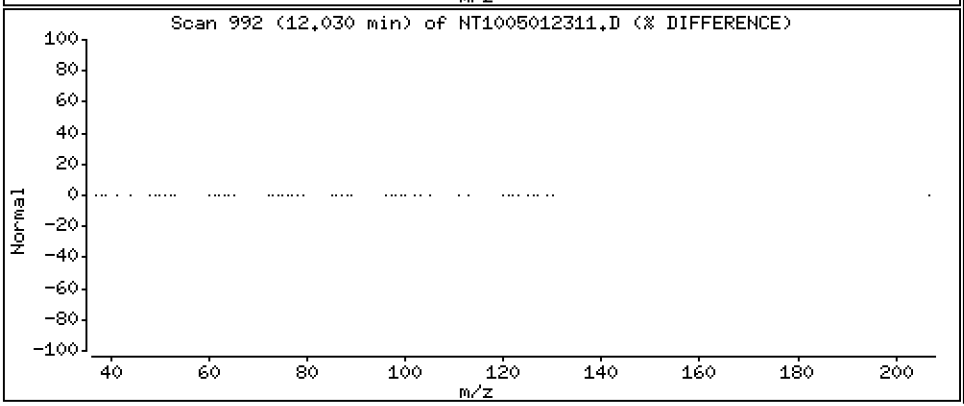












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

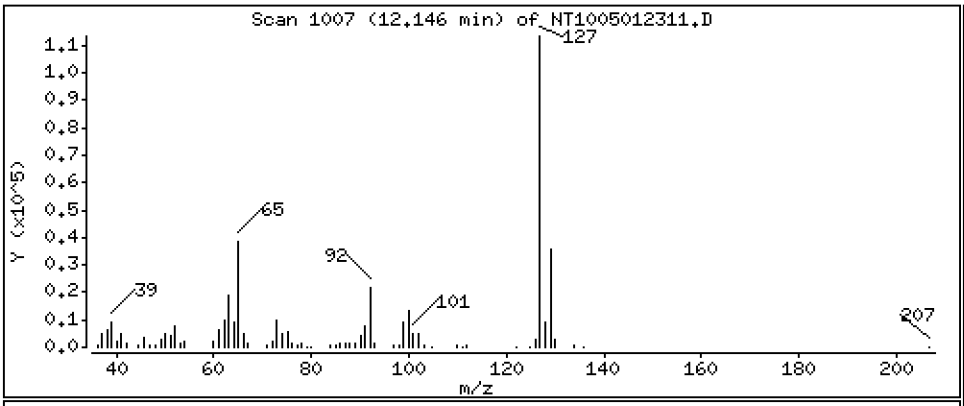
Operator: VTS

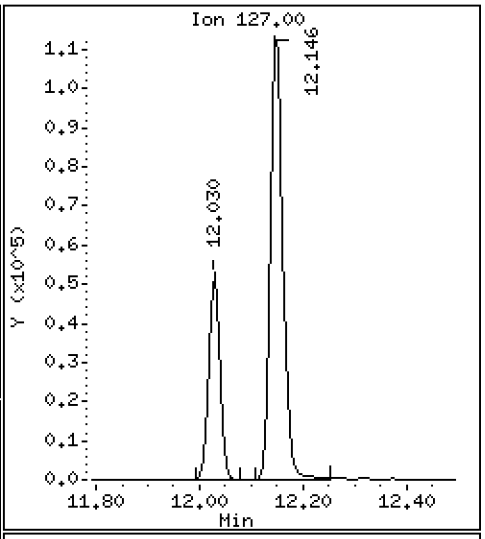
Column phase: ZB-5msi

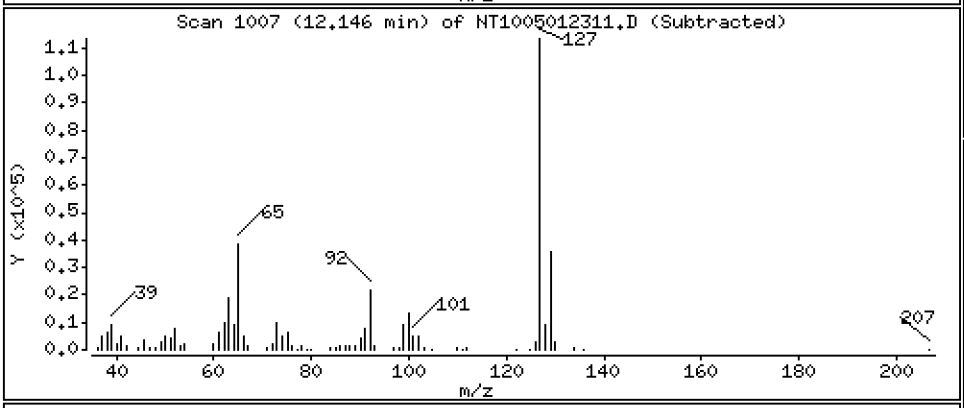
Column diameter: 0.25

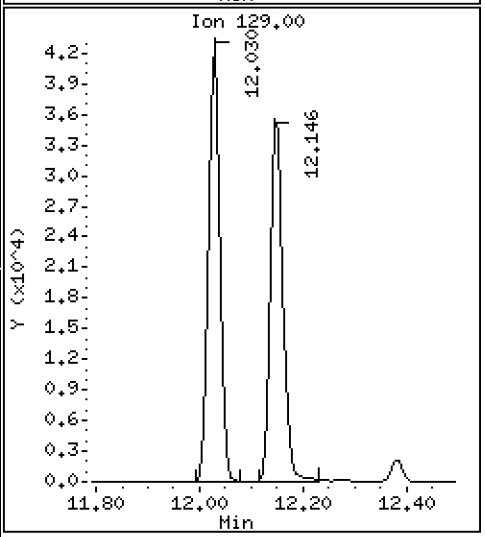
29 4-Chloroaniline

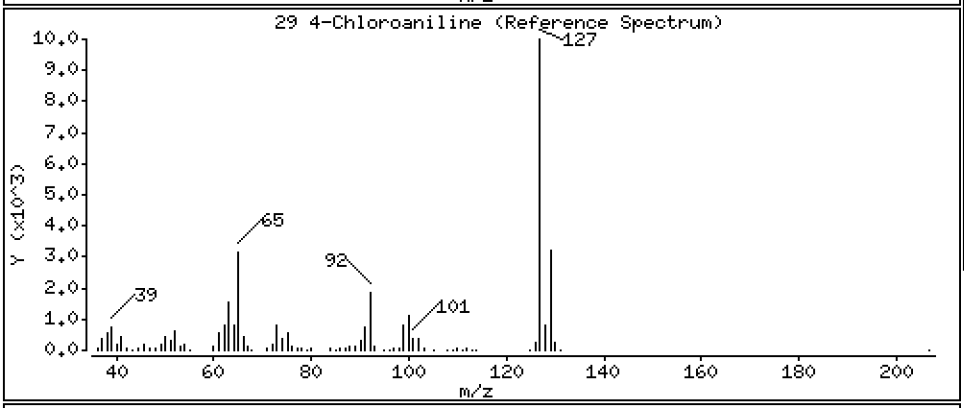
Concentration: 3.956 ug/mL

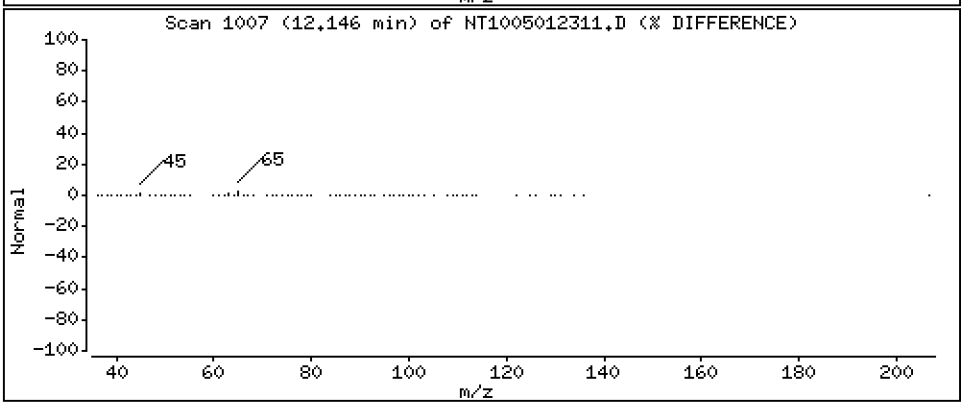












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

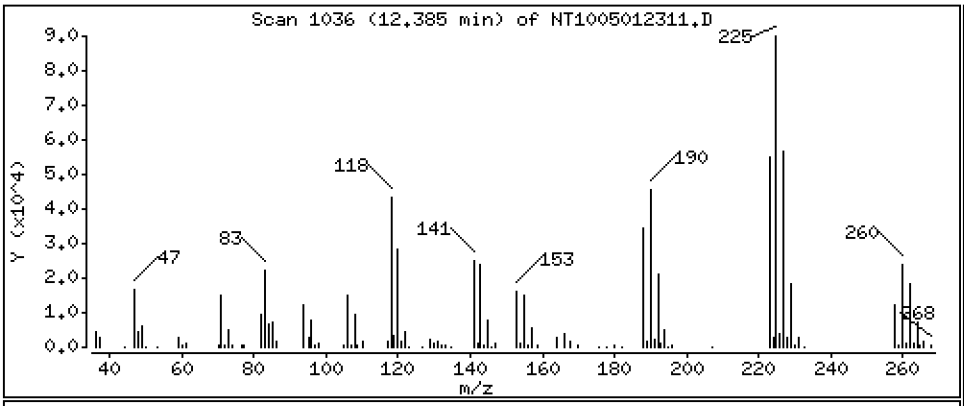
Operator: VTS

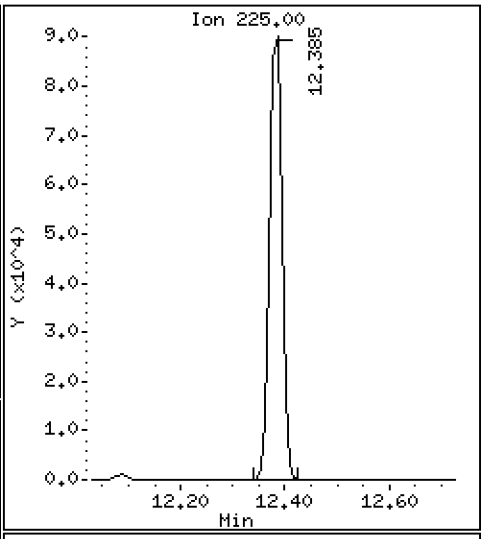
Column phase: ZB-5msi

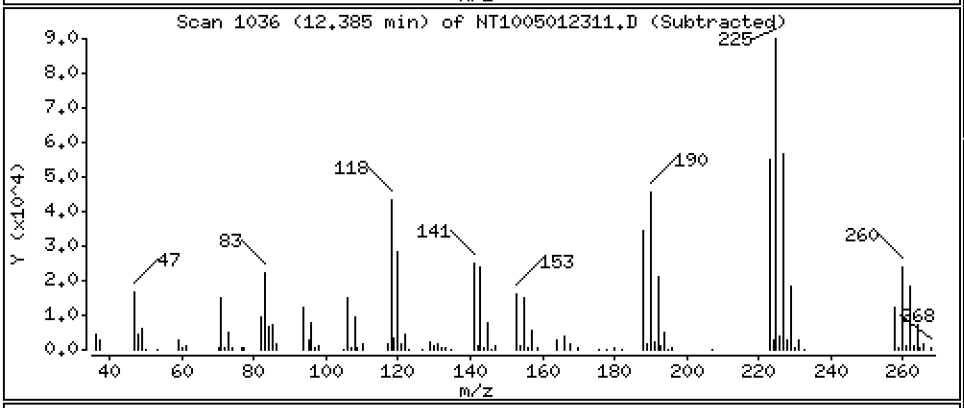
Column diameter: 0.25

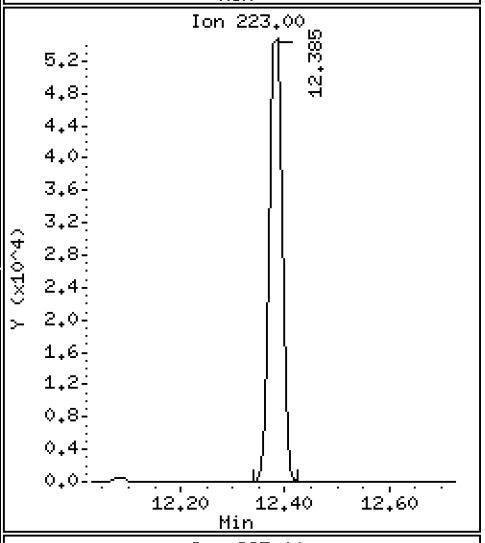
30 Hexachlorobutadiene

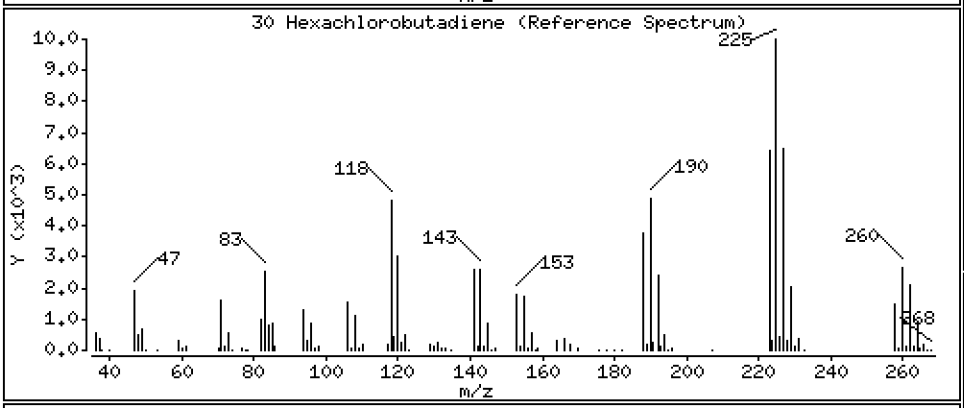
Concentration: 4.626 ug/mL

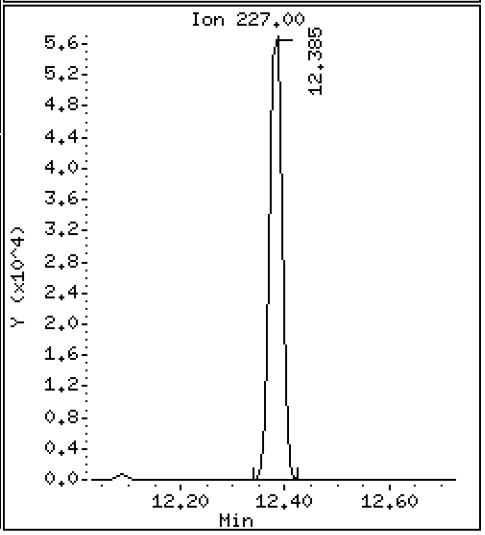


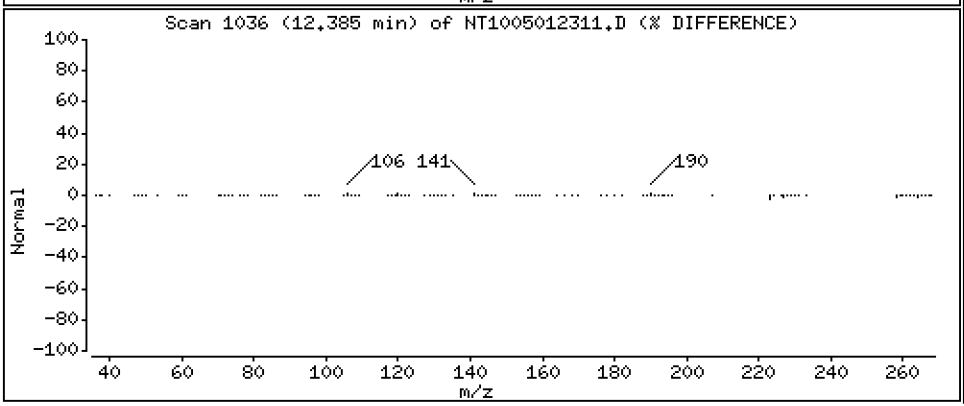












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

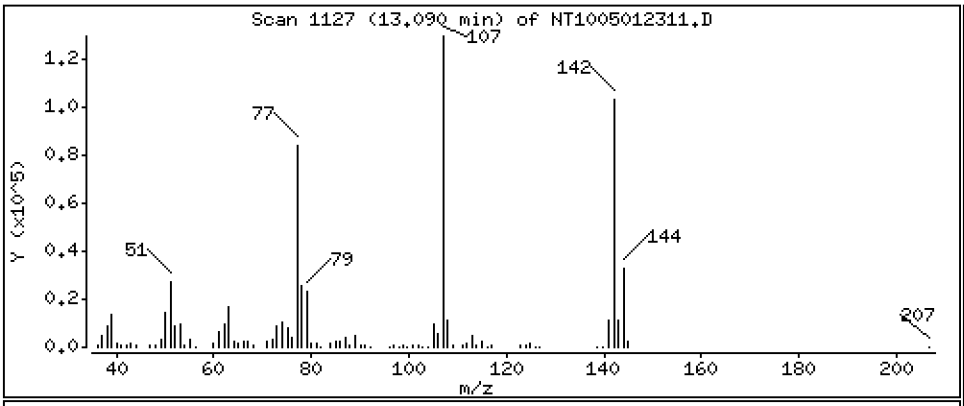
Operator: VTS

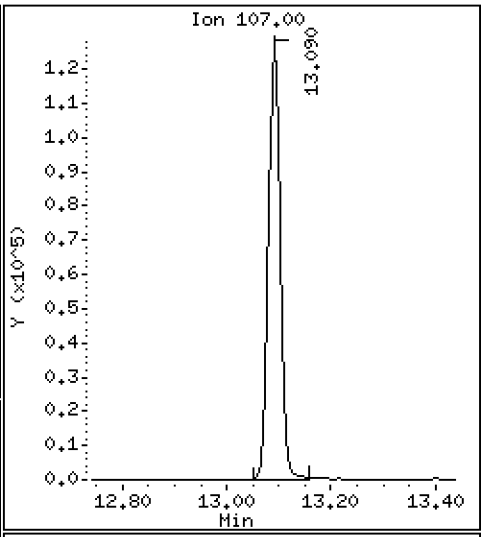
Column phase: ZB-5msi

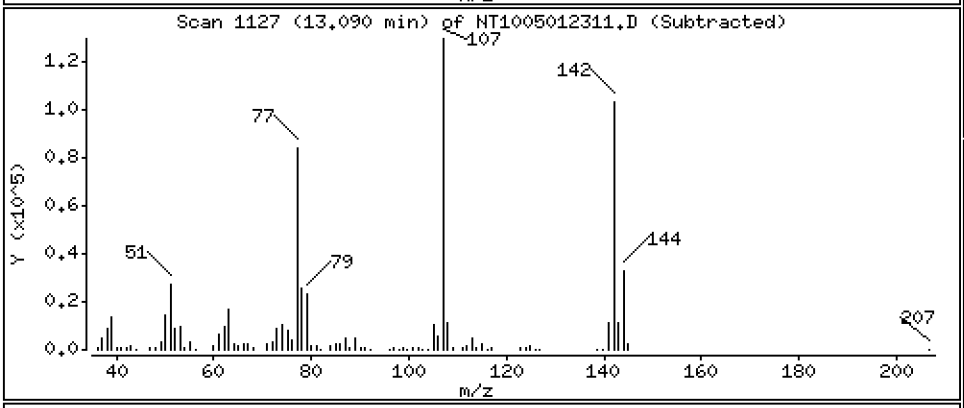
Column diameter: 0.25

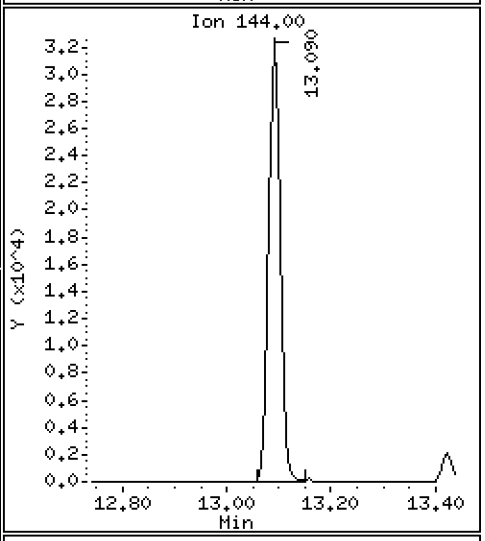
31 4-Chloro-3-methylphenol

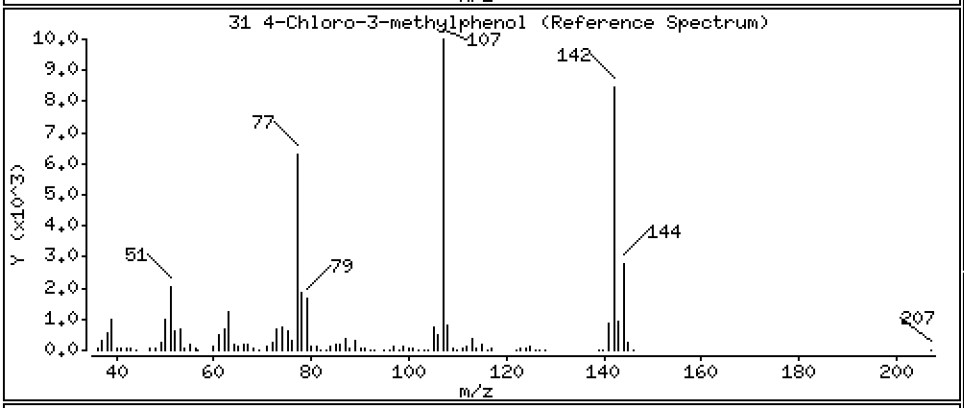
Concentration: 4.460 ug/mL

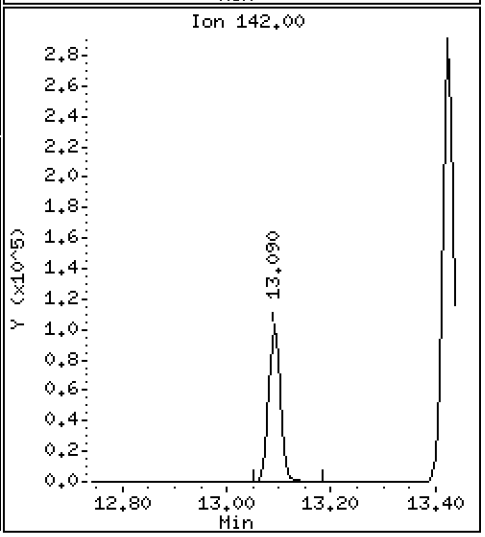


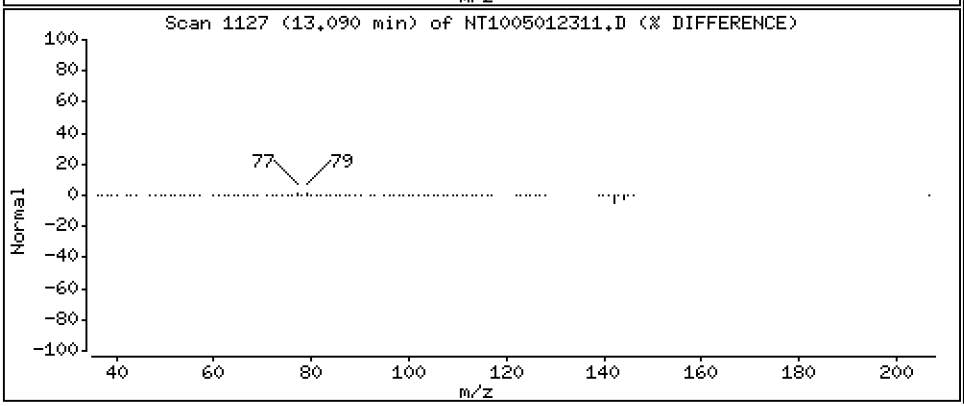












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

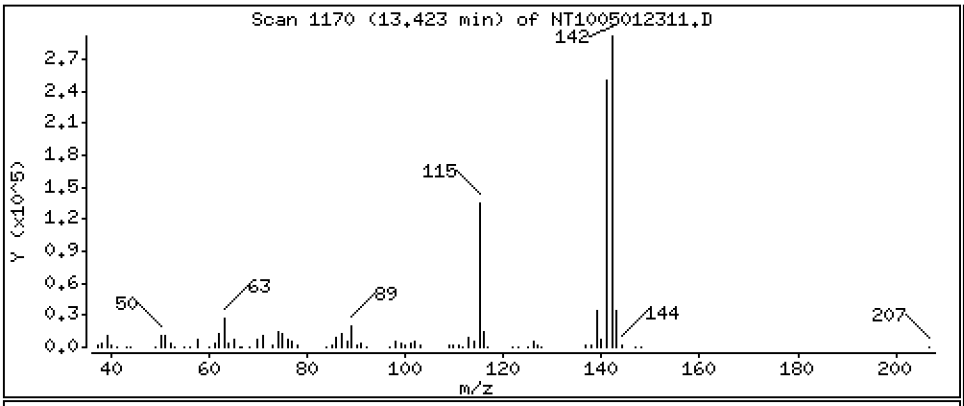
Operator: VTS

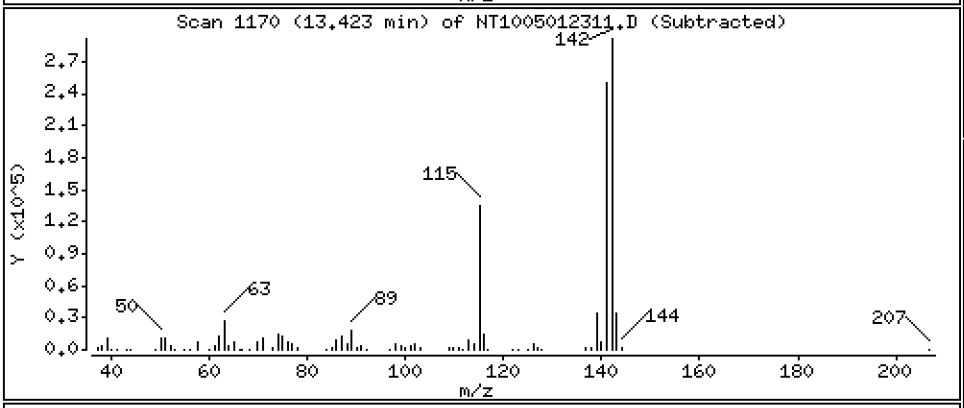
Column phase: ZB-5msi

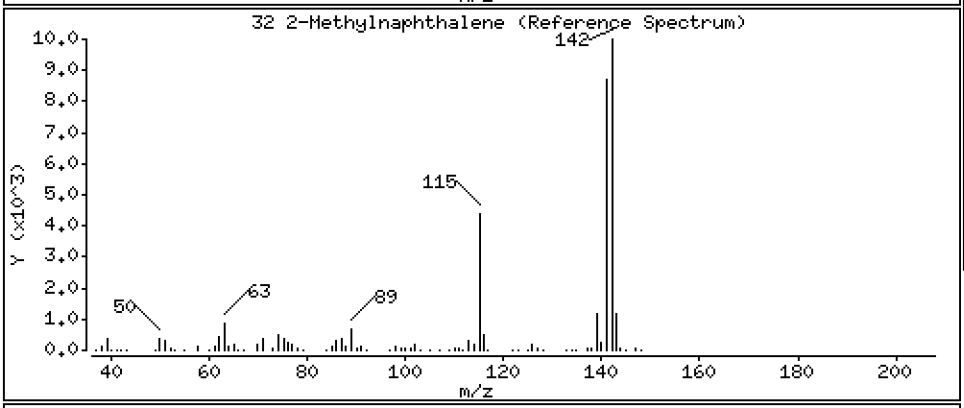
Column diameter: 0.25

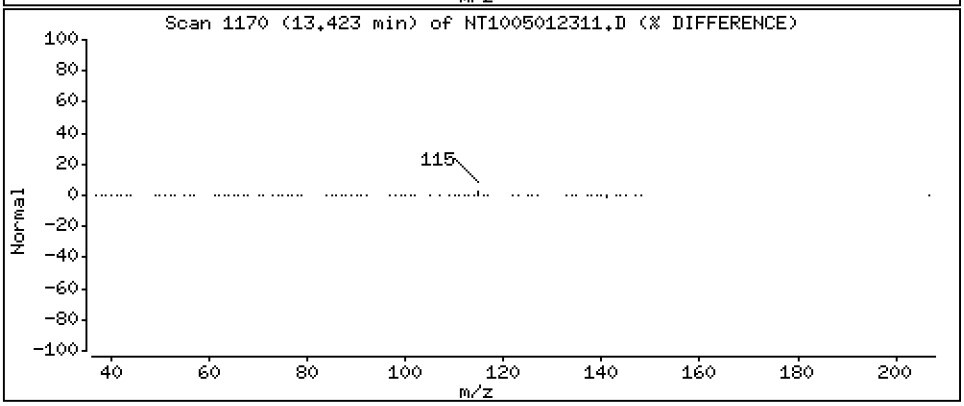
32 2-Methylnaphthalene

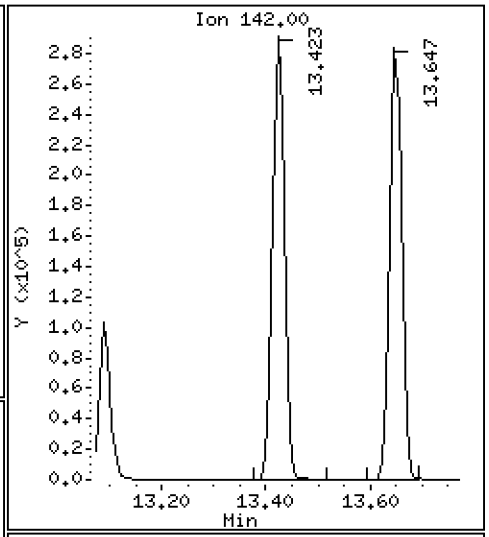
Concentration: 4.513 ug/mL

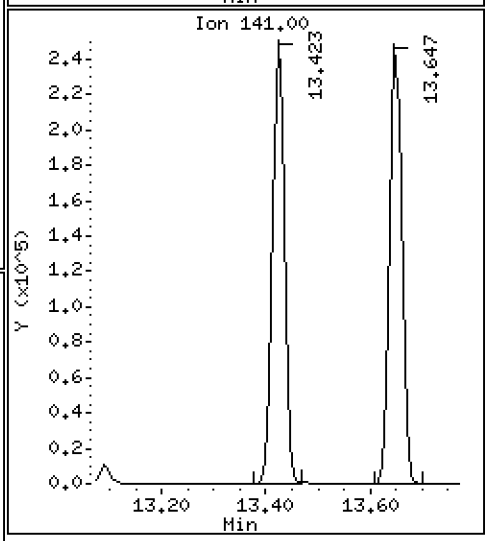












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

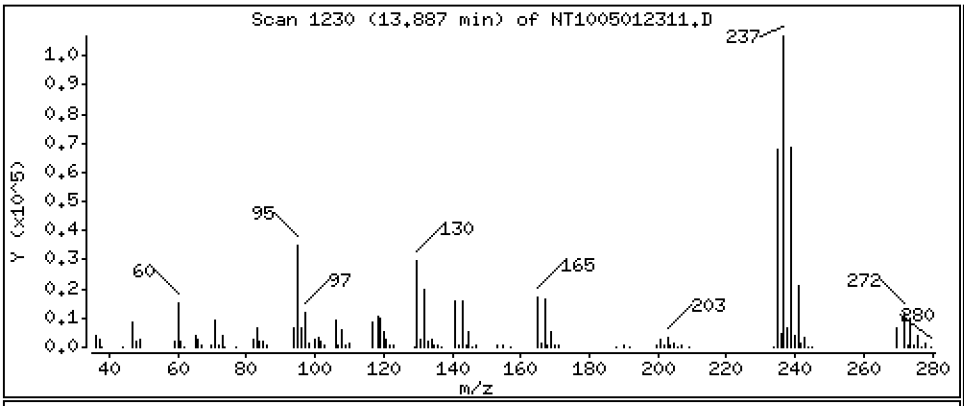
Operator: VTS

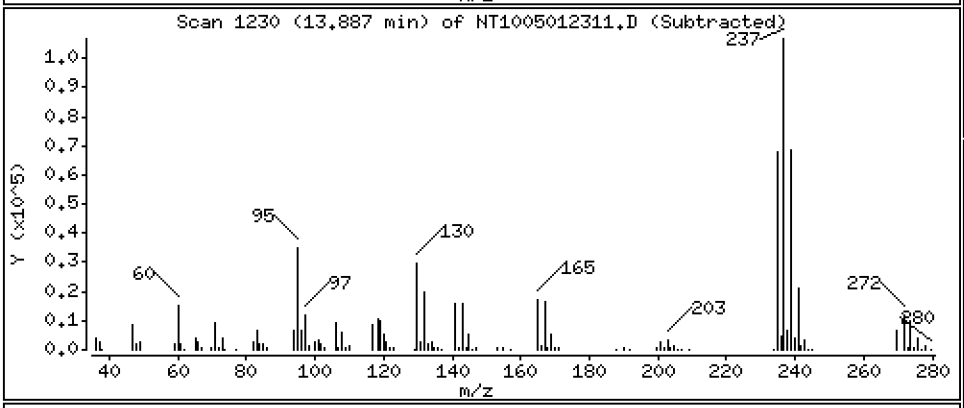
Column phase: ZB-5msi

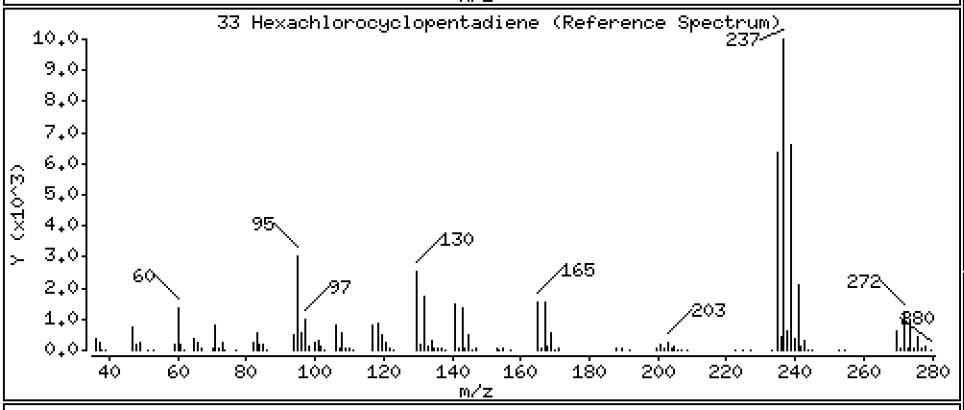
Column diameter: 0.25

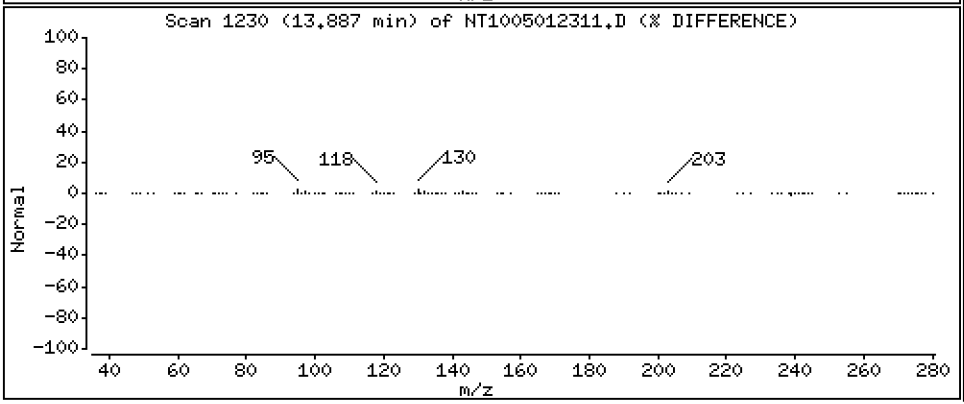
33 Hexachlorocyclopentadiene

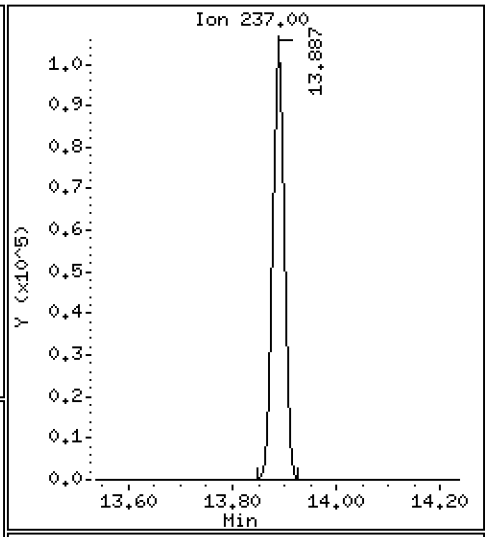
Concentration: 4.673 ug/mL

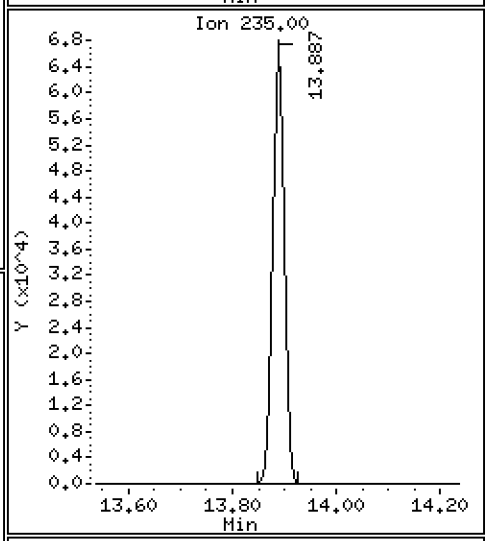


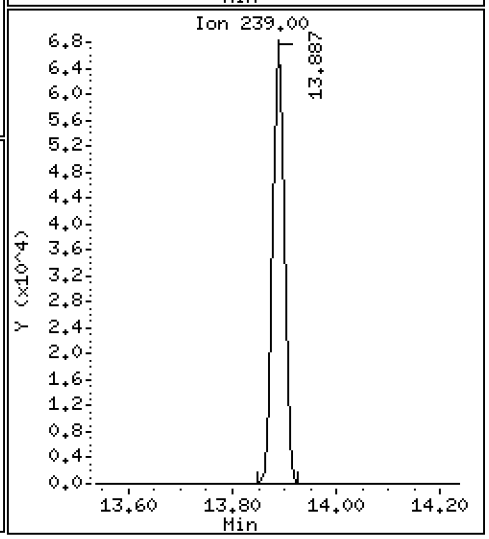












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

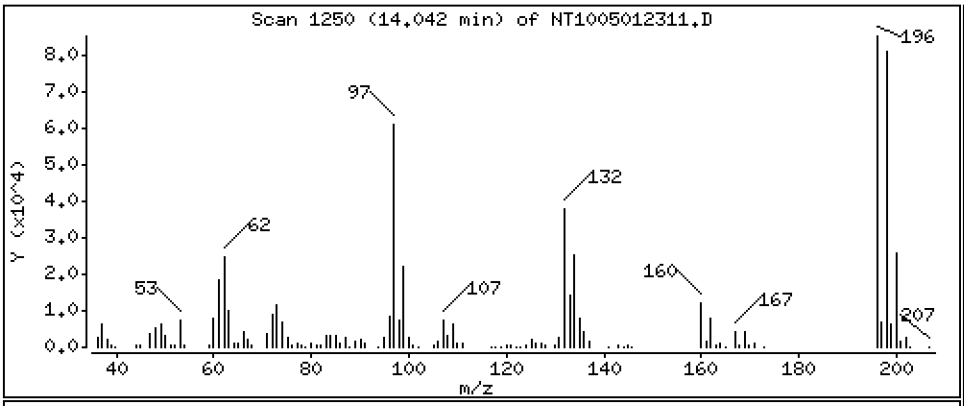
Operator: VTS

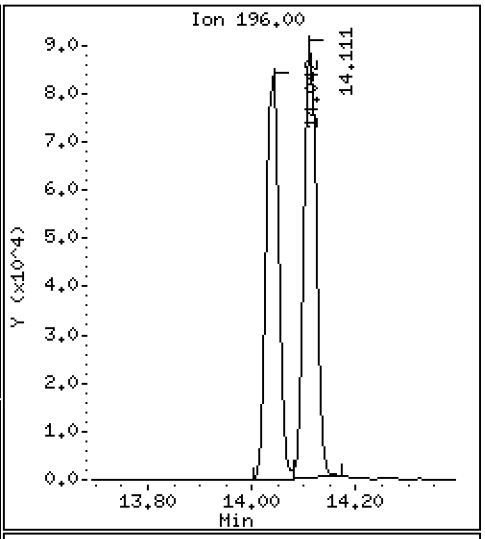
Column phase: ZB-5msi

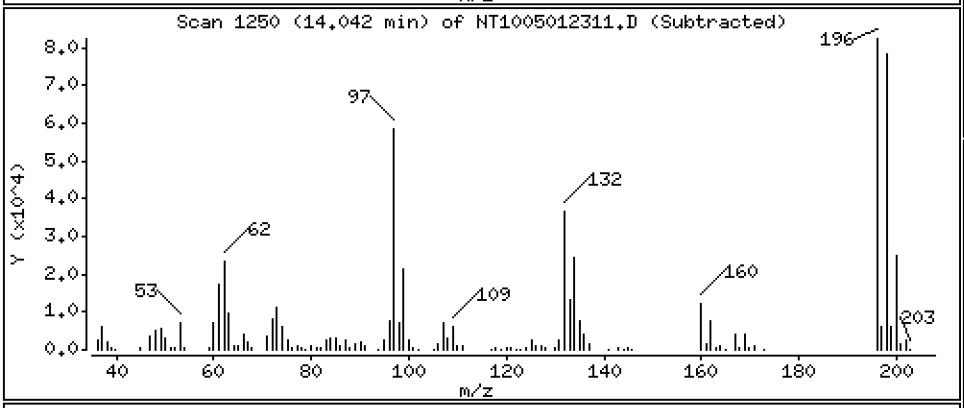
Column diameter: 0.25

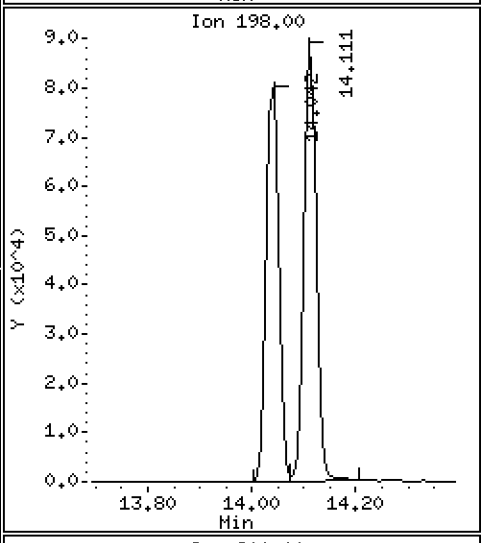
34 2,4,6-Trichlorophenol

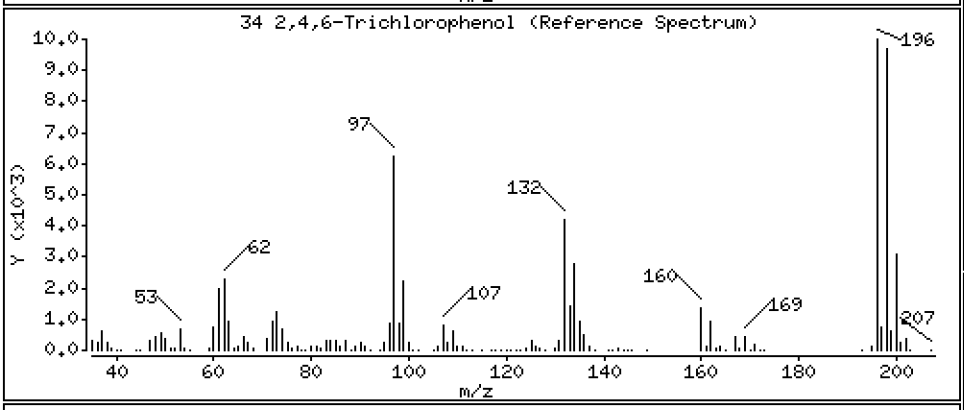
Concentration: 4.212 ug/mL

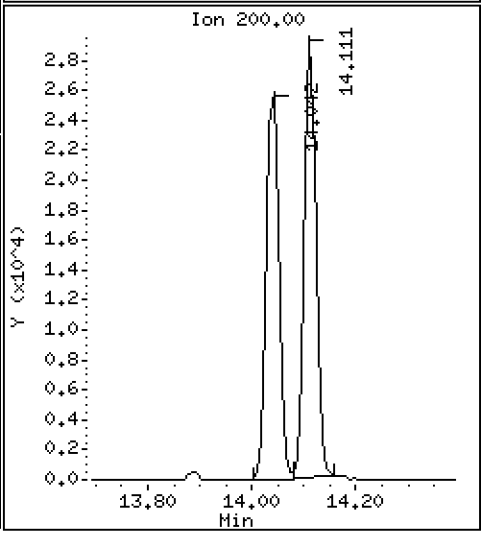


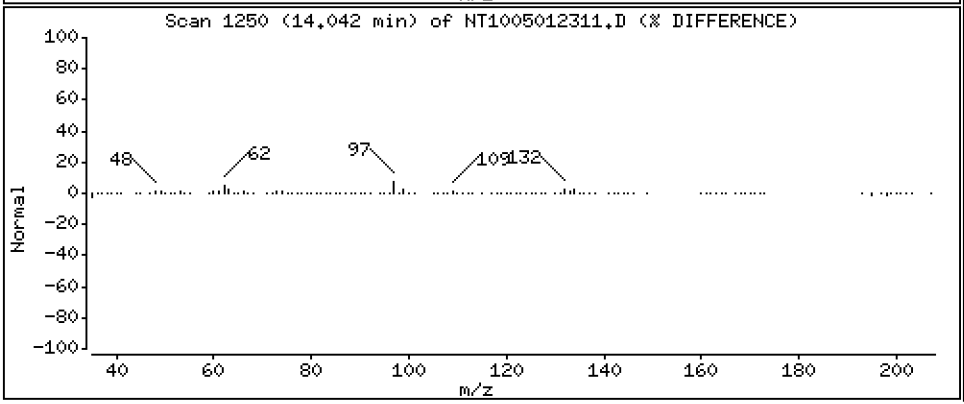












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

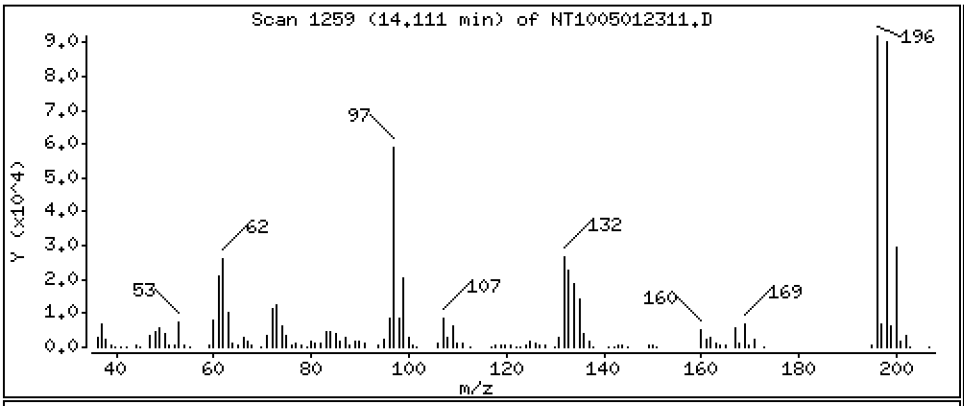
Operator: VTS

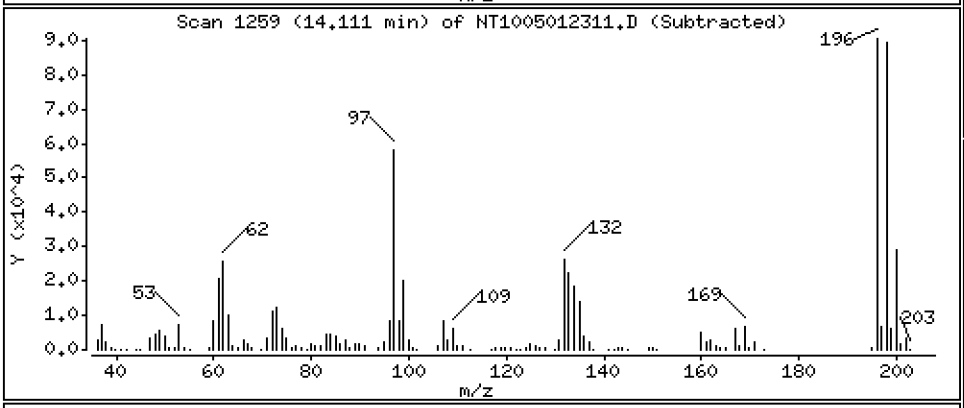
Column phase: ZB-5msi

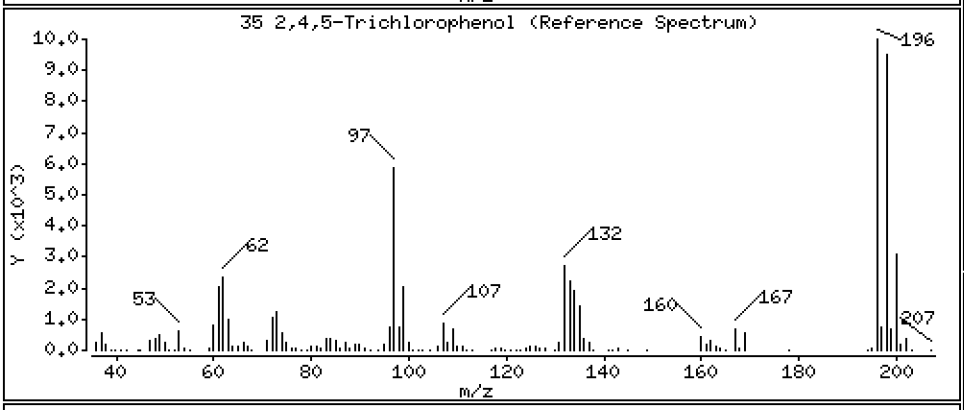
Column diameter: 0.25

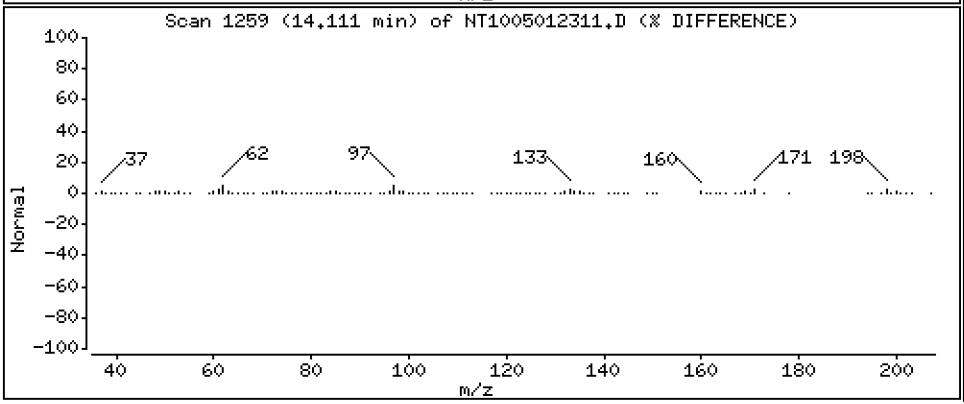
35 2,4,5-Trichlorophenol

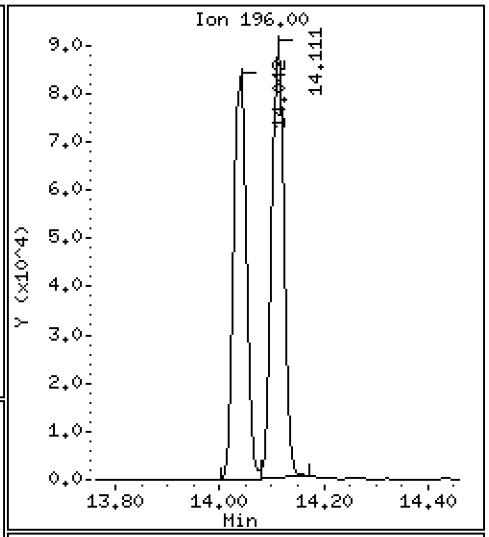
Concentration: 4.029 ug/mL

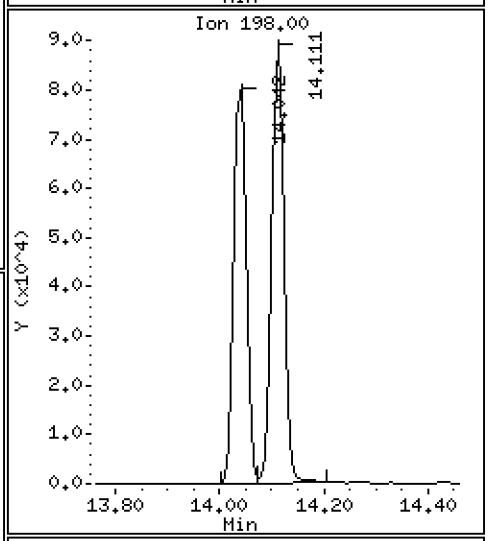


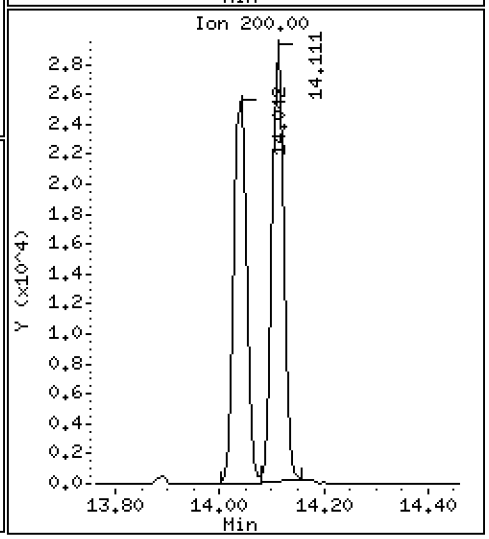












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

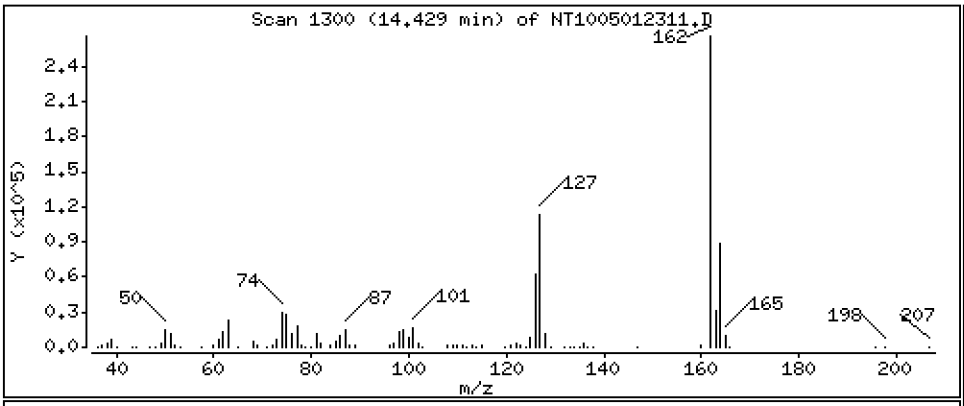
Operator: VTS

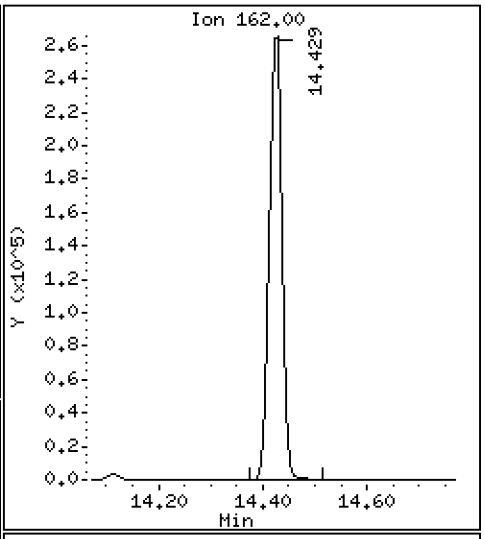
Column phase: ZB-5msi

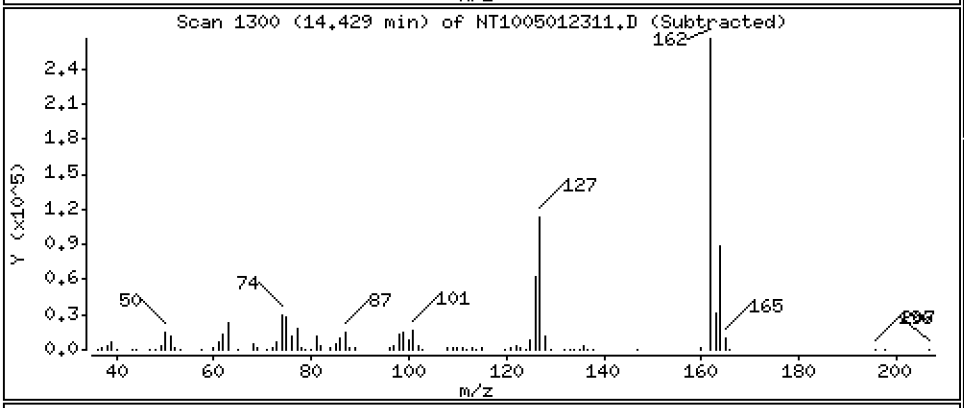
Column diameter: 0.25

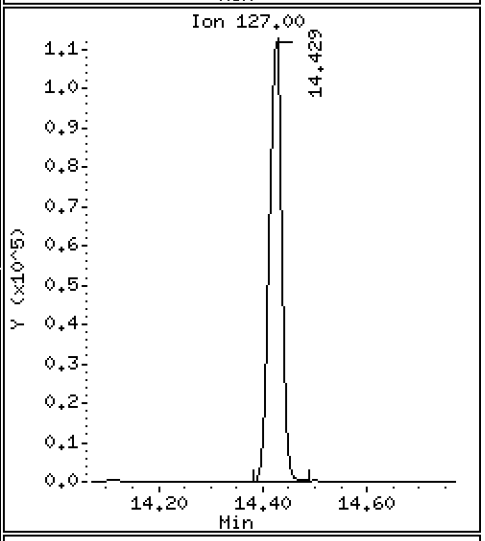
37 2-Chloronaphthalene

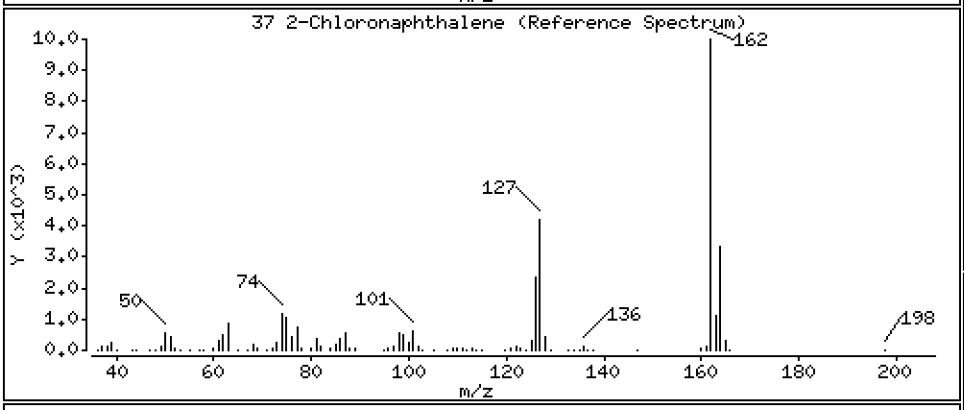
Concentration: 4.830 ug/mL

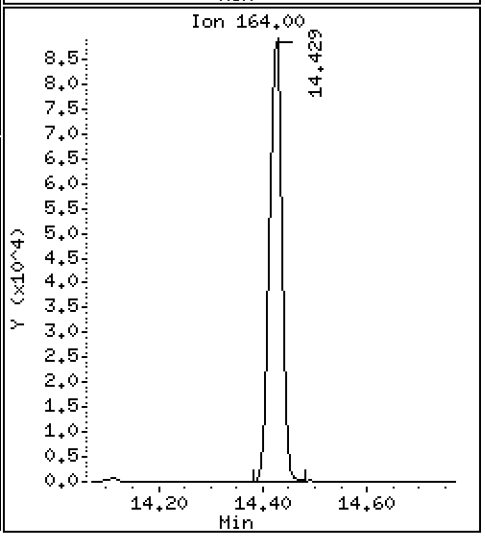


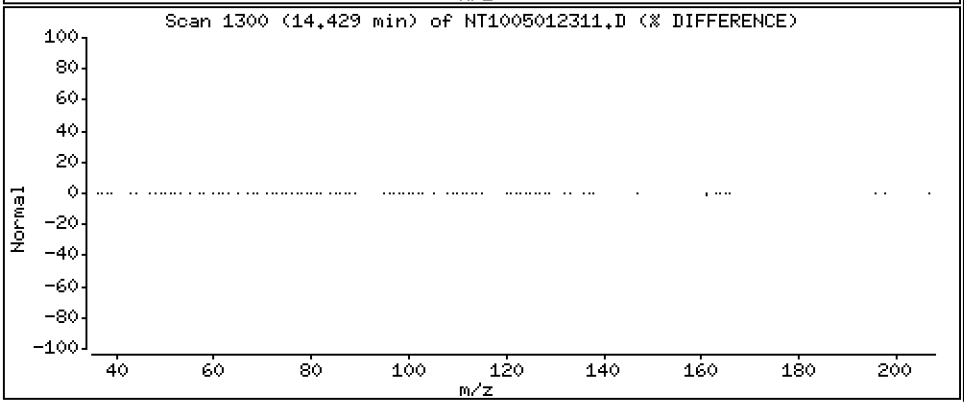












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

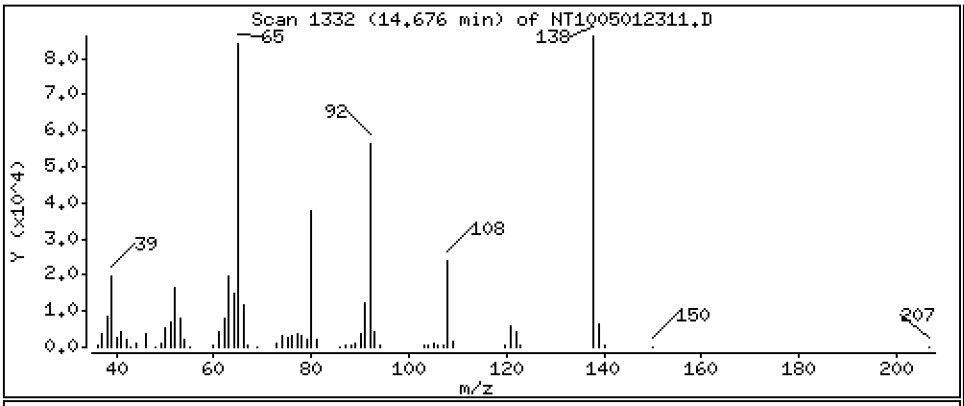
Operator: VTS

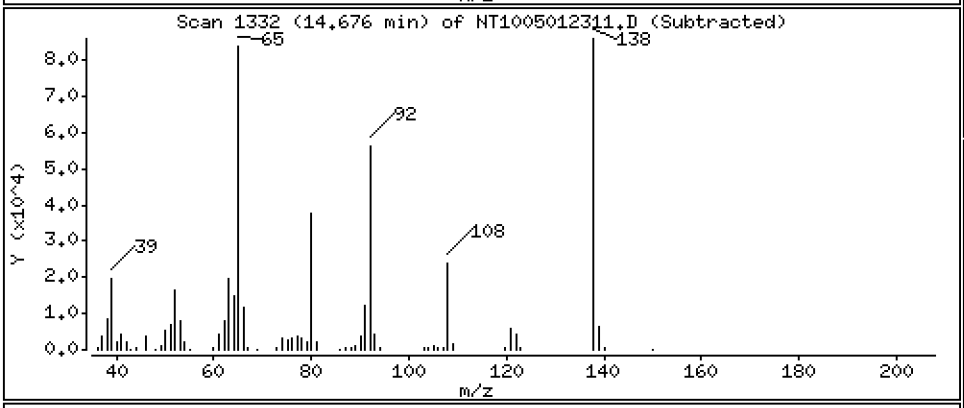
Column phase: ZB-5msi

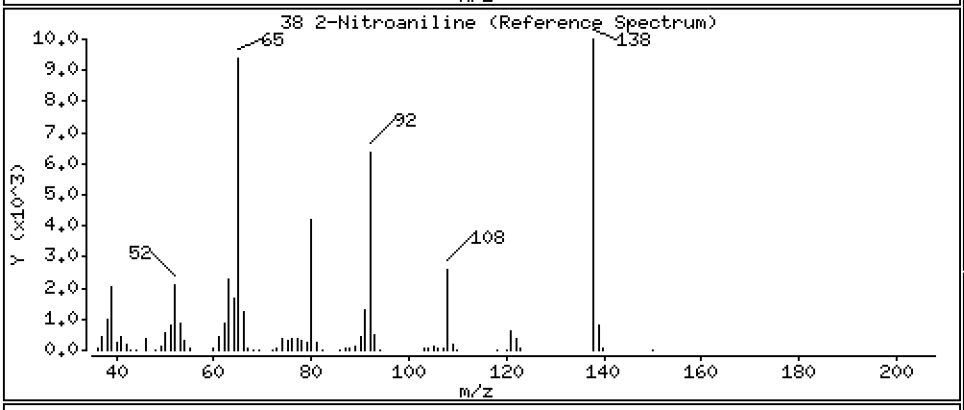
Column diameter: 0.25

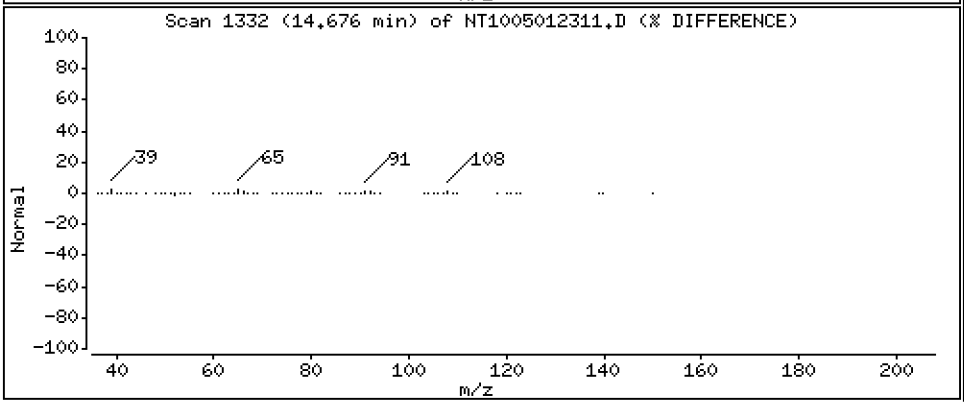
38 2-Nitroaniline

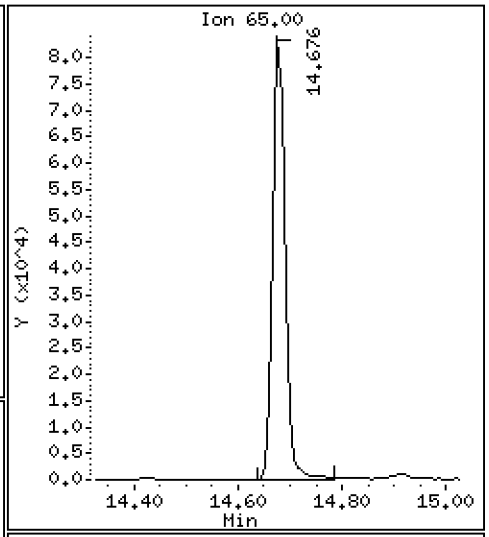
Concentration: 5.029 ug/mL

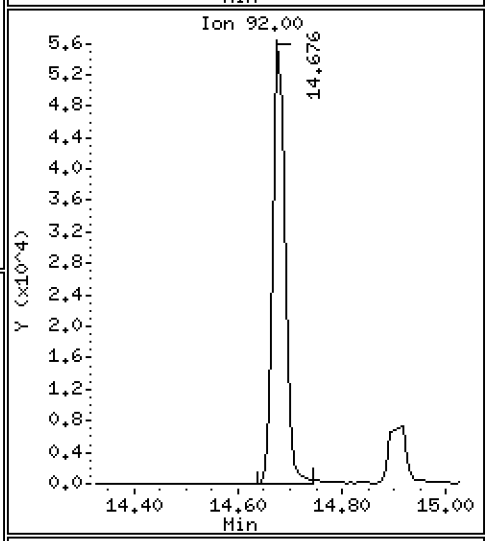


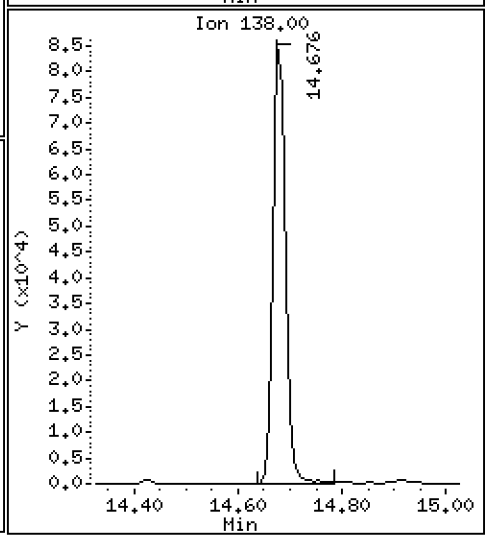












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

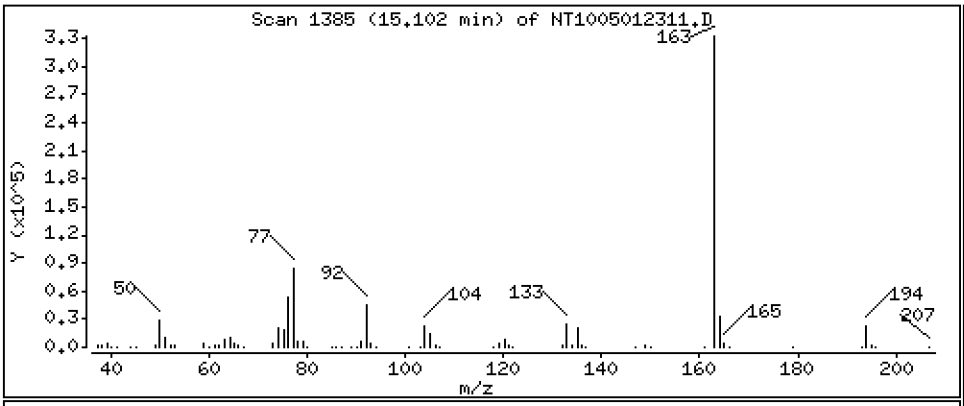
Operator: VTS

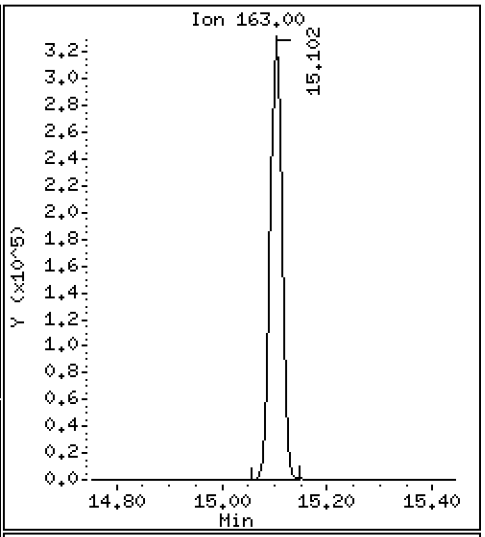
Column phase: ZB-5msi

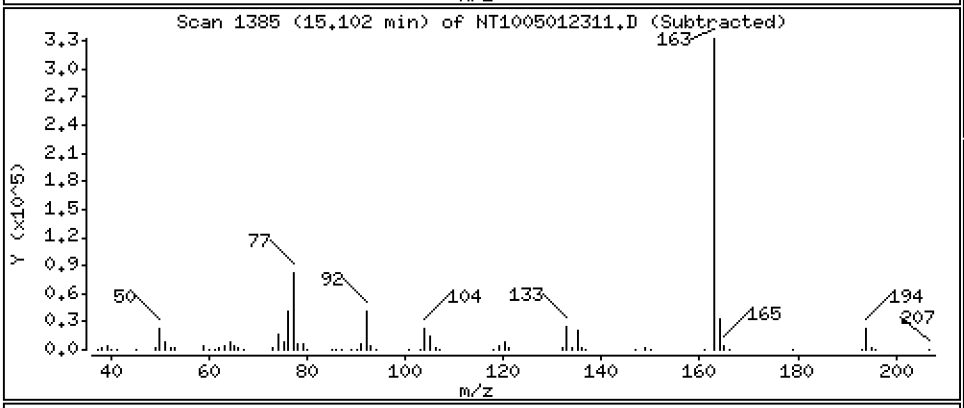
Column diameter: 0.25

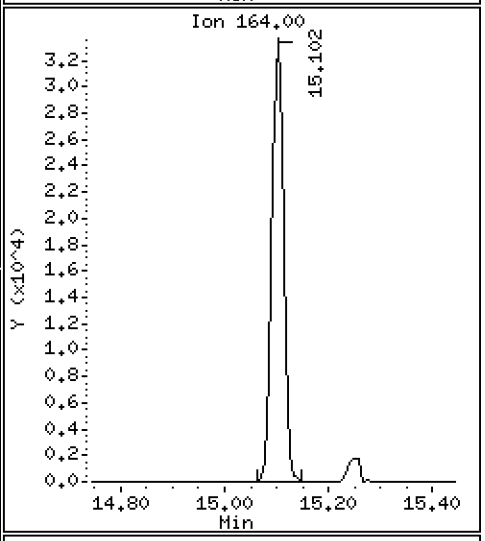
39 Dimethylphthalate

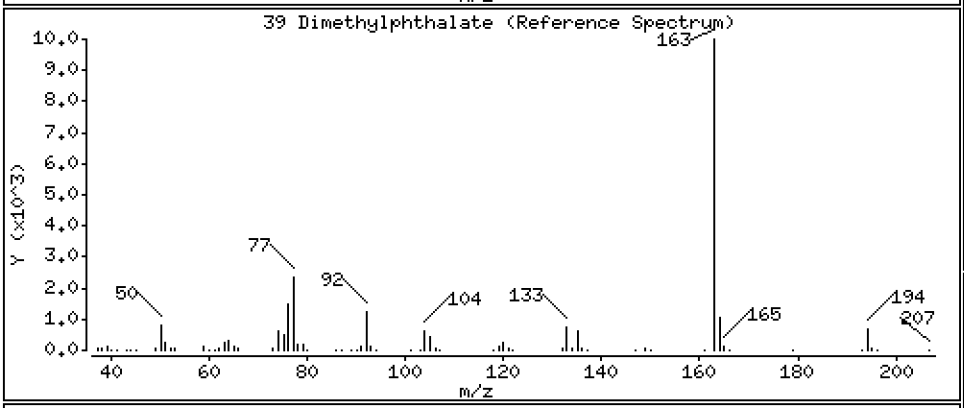
Concentration: 4.908 ug/mL

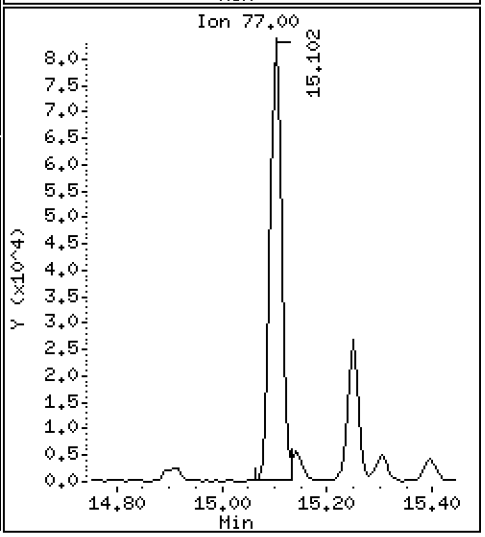


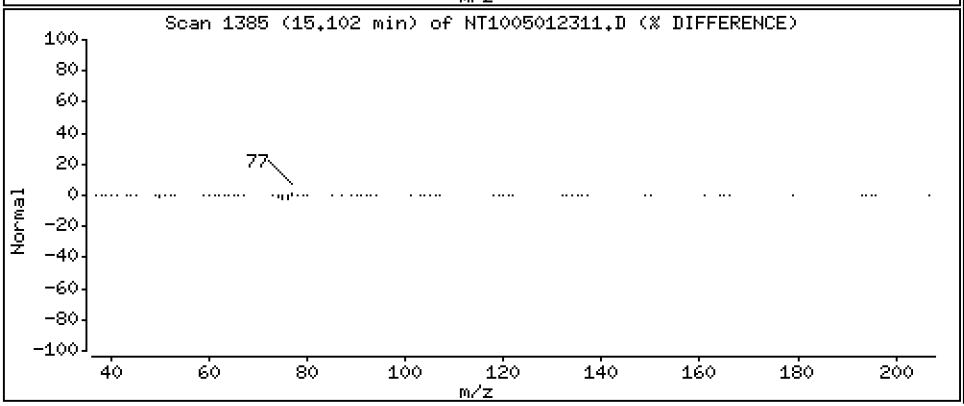












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

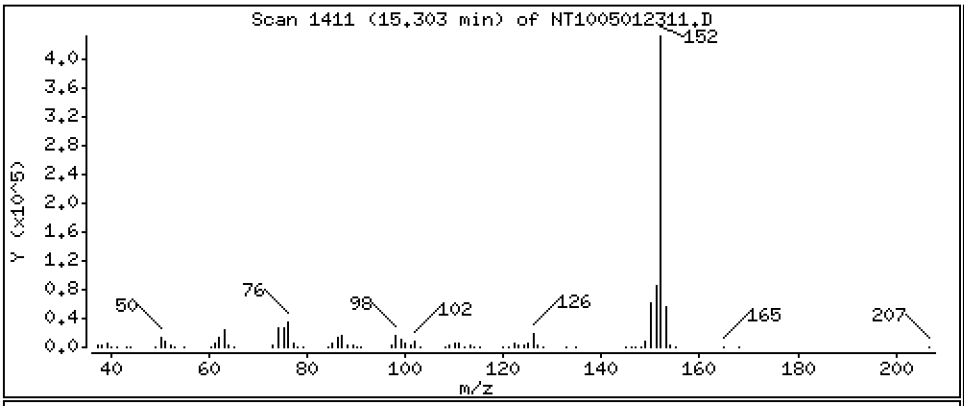
Operator: VTS

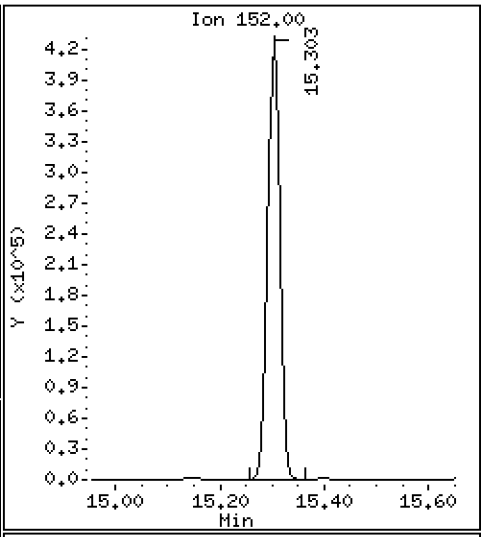
Column phase: ZB-5msi

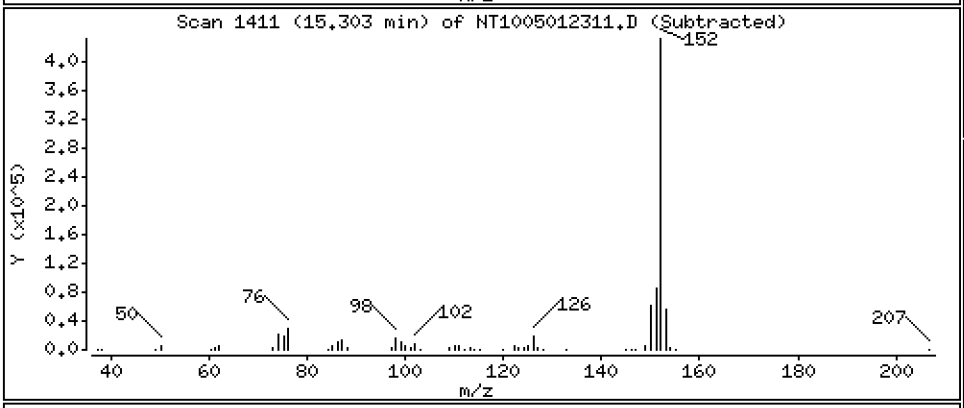
Column diameter: 0.25

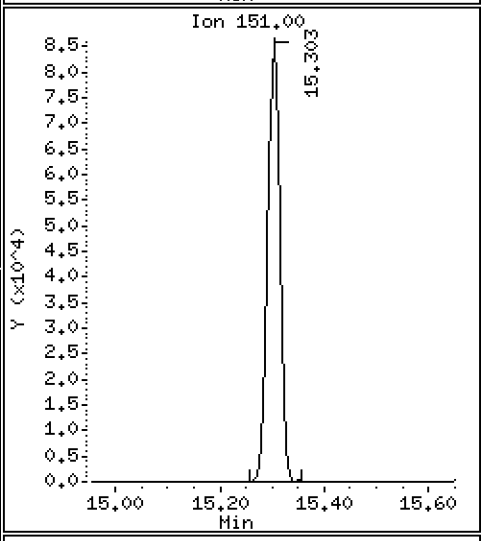
40 Acenaphthylene

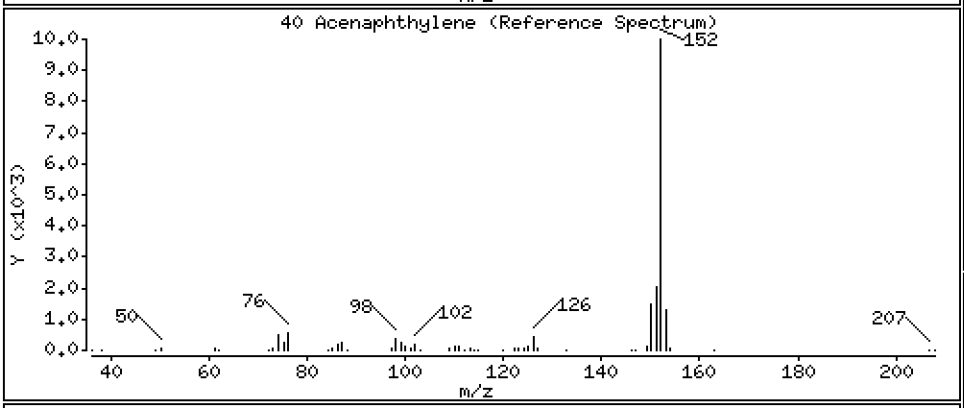
Concentration: 4.776 ug/mL

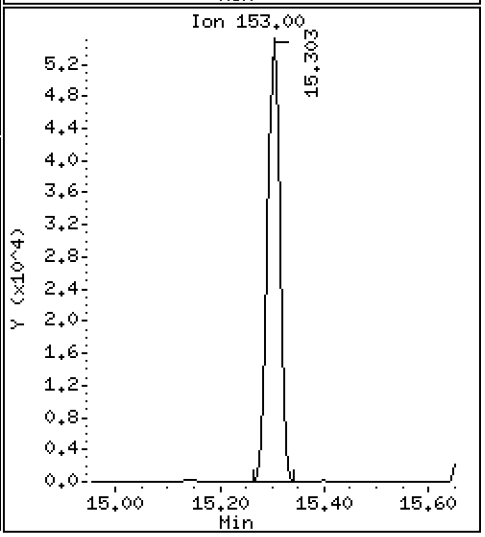


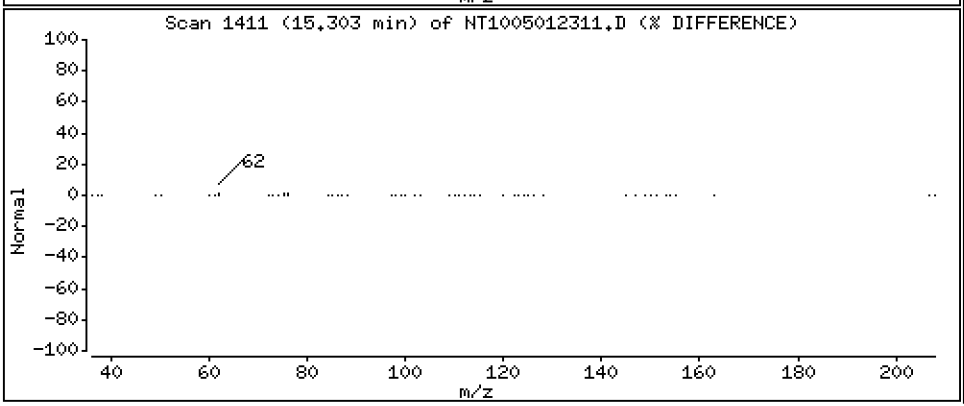












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

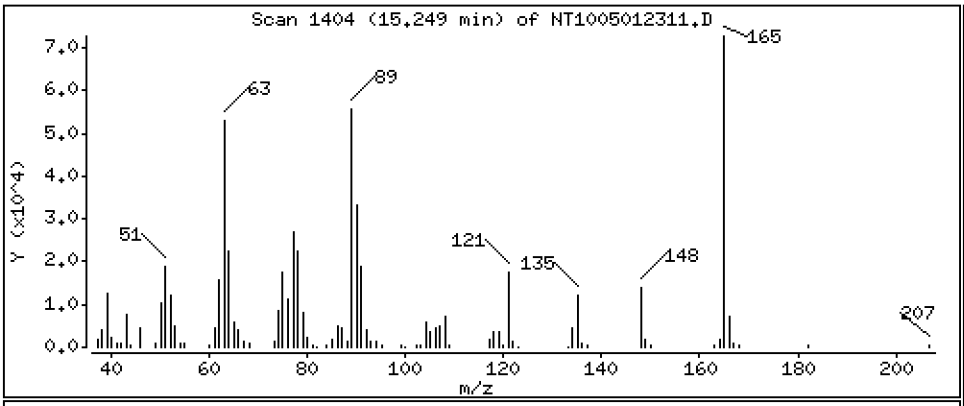
Operator: VTS

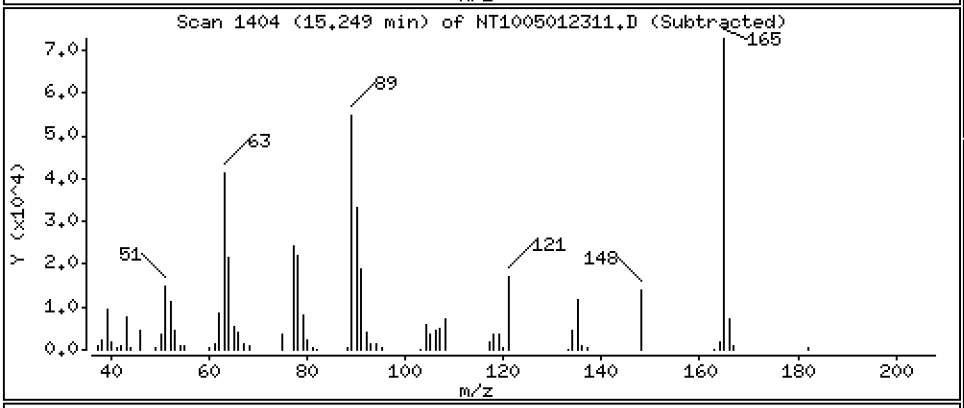
Column phase: ZB-5msi

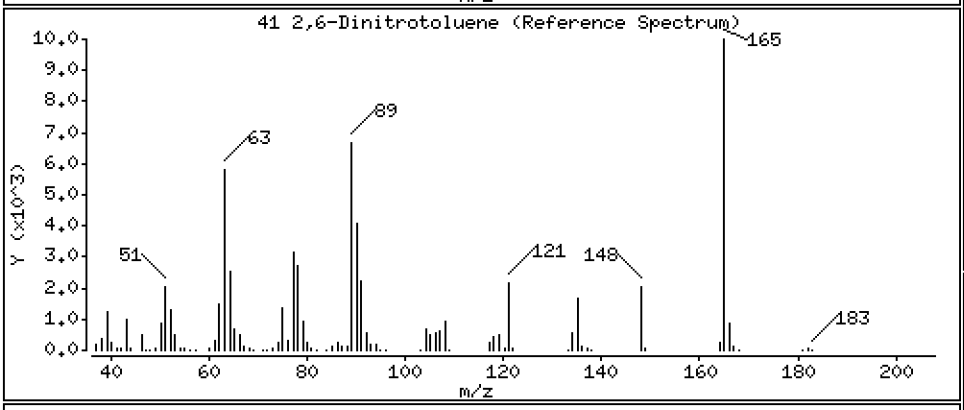
Column diameter: 0.25

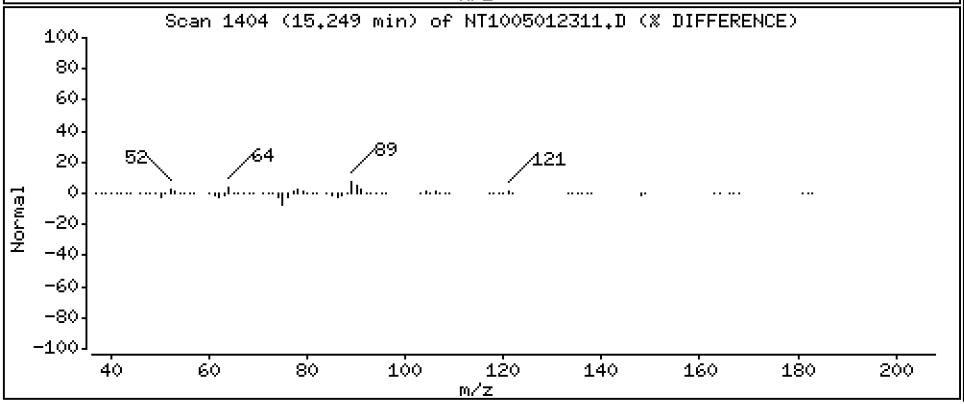
41 2,6-Dinitrotoluene

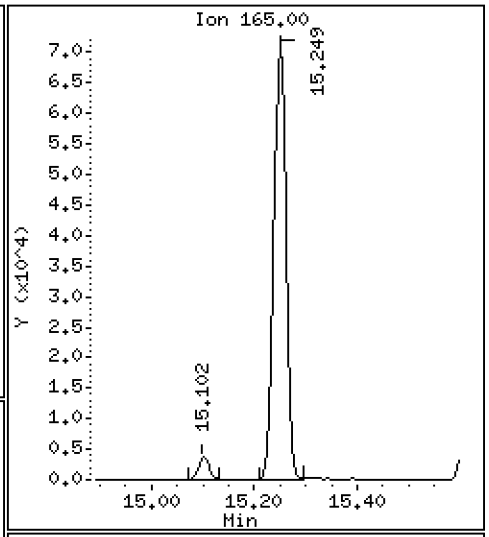
Concentration: 4.876 ug/mL

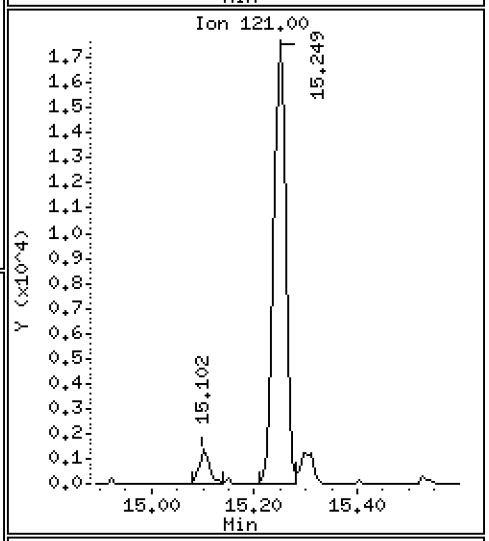


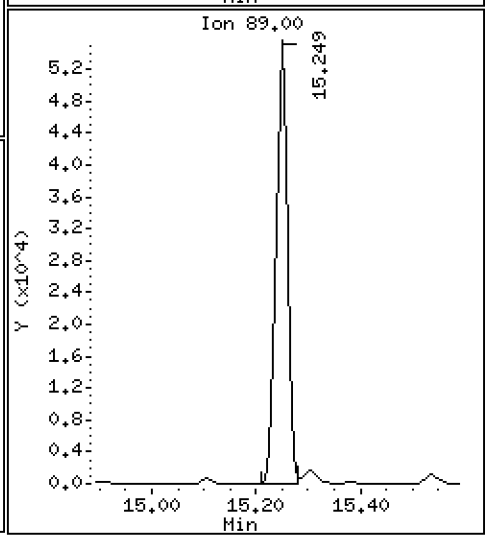












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

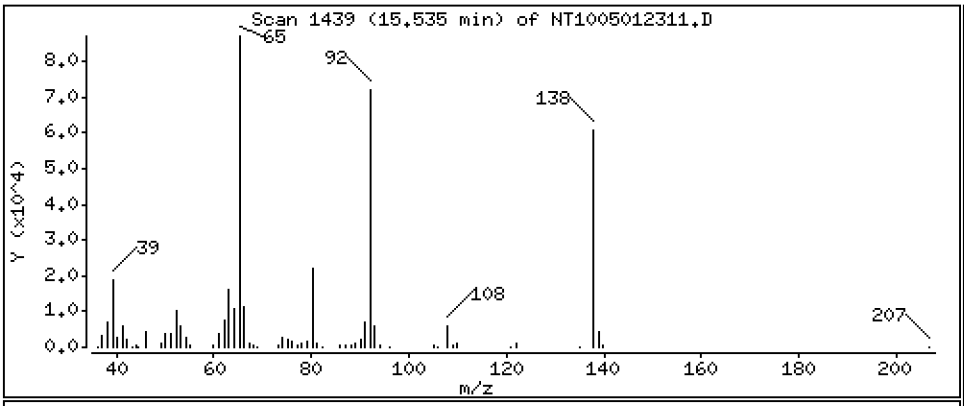
Operator: VTS

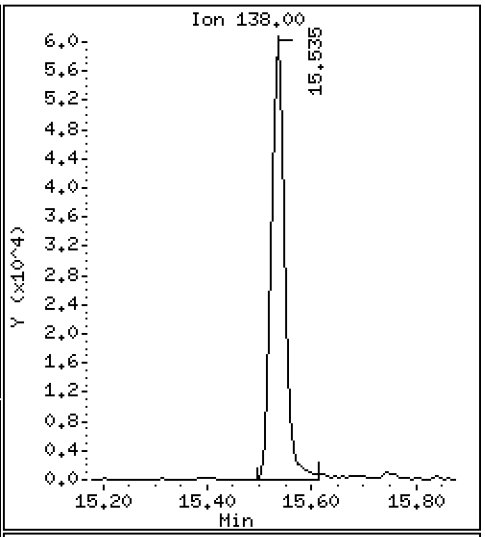
Column phase: ZB-5msi

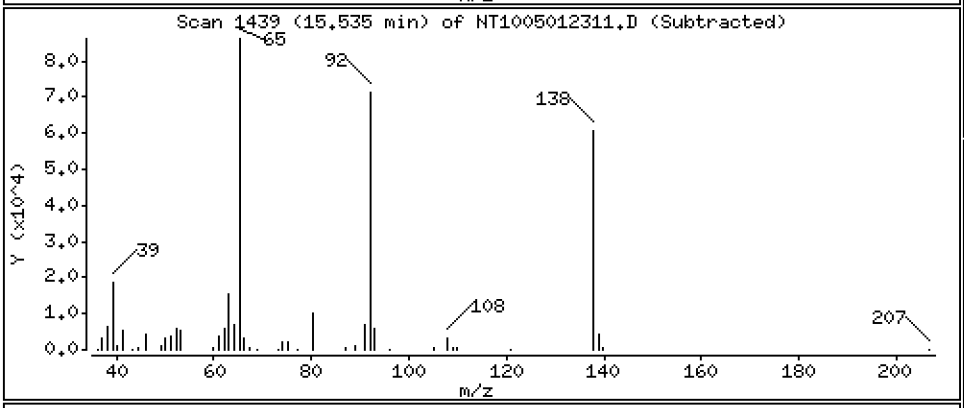
Column diameter: 0.25

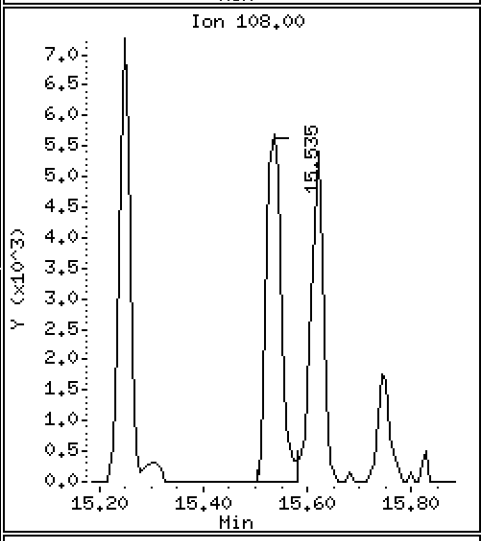
43 3-Nitroaniline

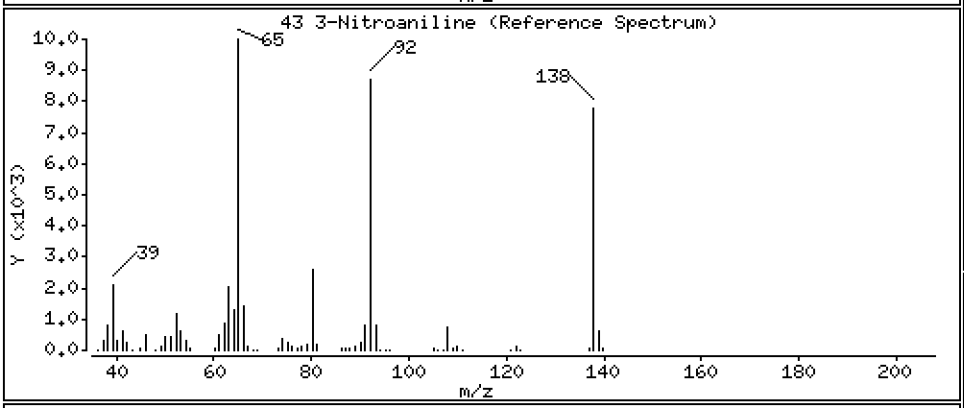
Concentration: 4.776 ug/mL

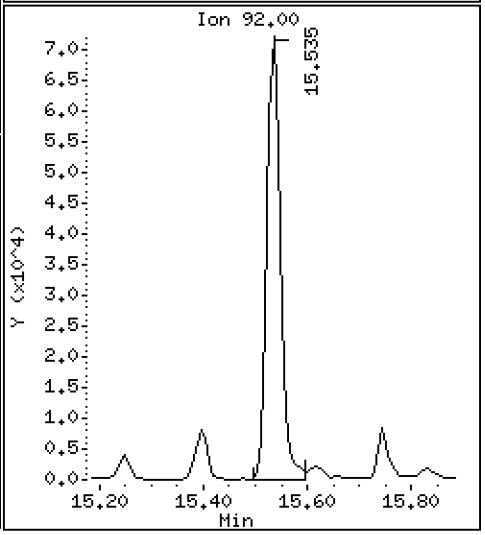


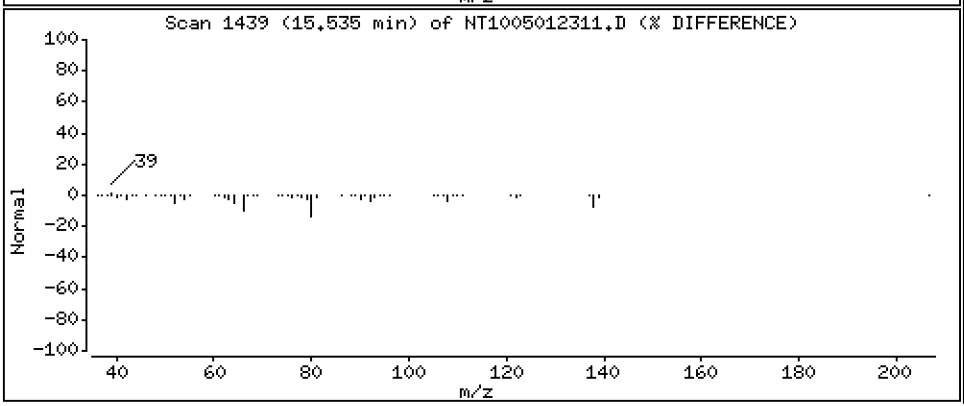












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

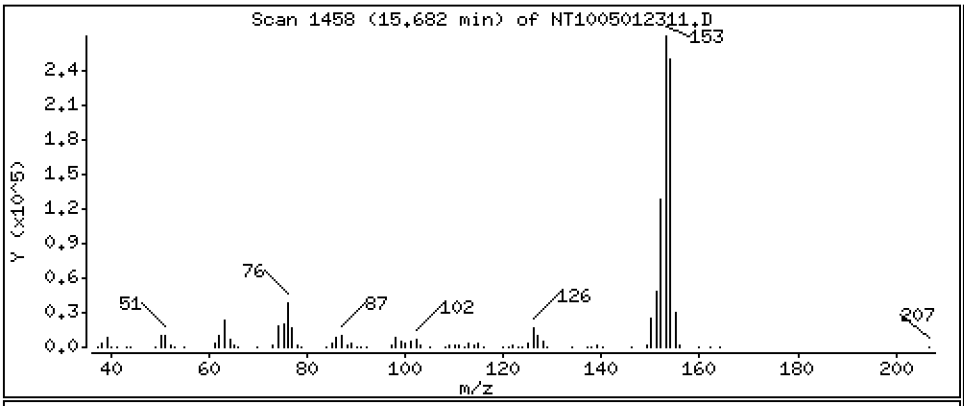
Operator: VTS

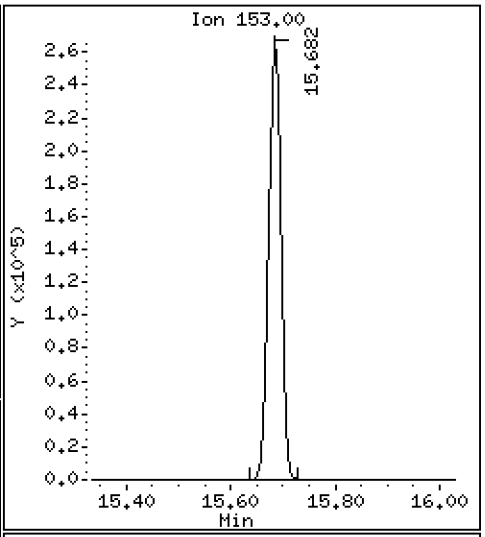
Column phase: ZB-5msi

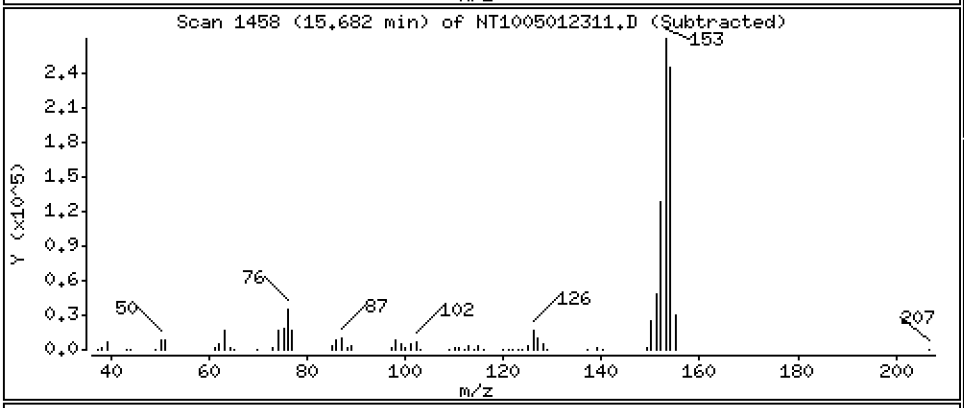
Column diameter: 0.25

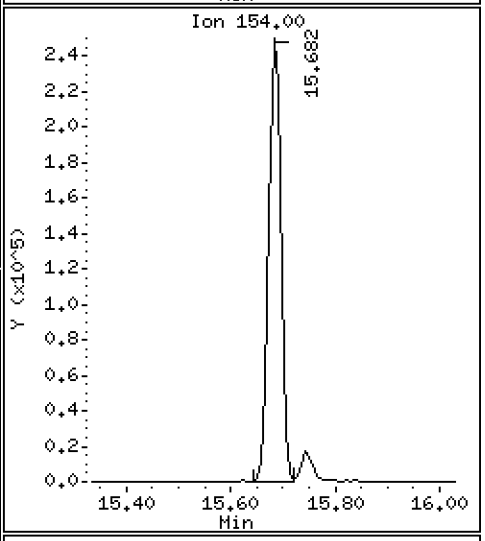
44 Acenaphthene

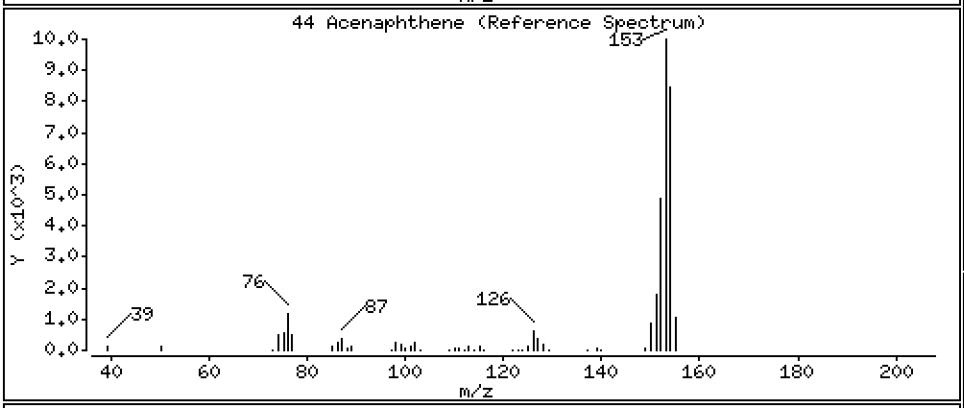
Concentration: 4.716 ug/mL

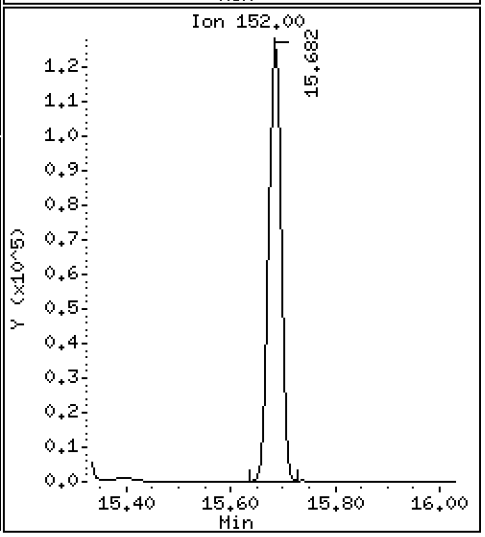


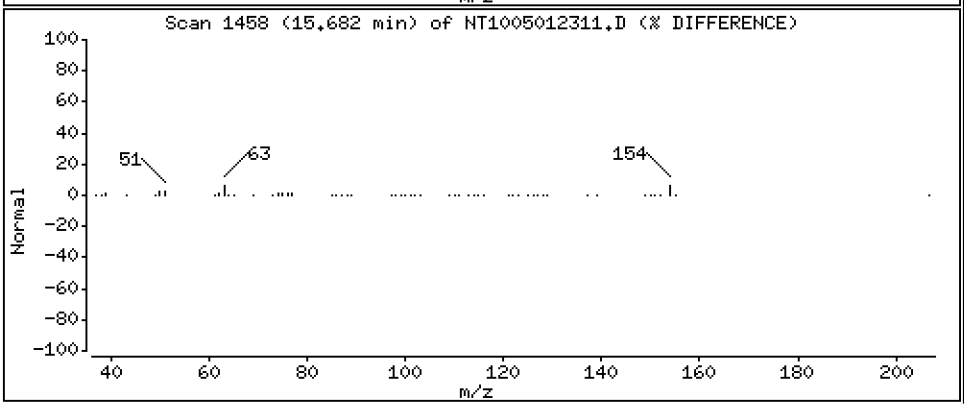












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

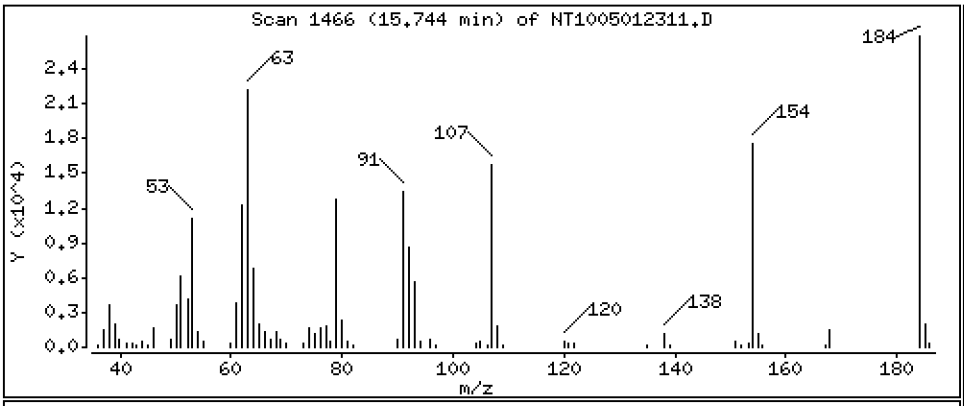
Operator: VTS

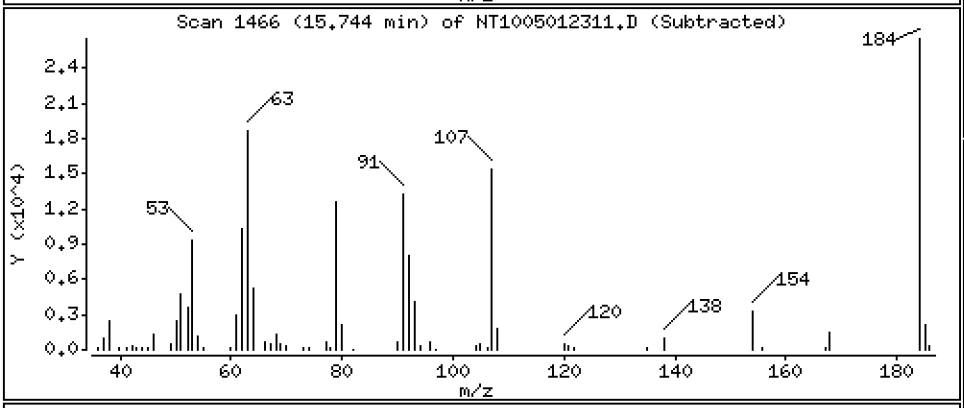
Column phase: ZB-5msi

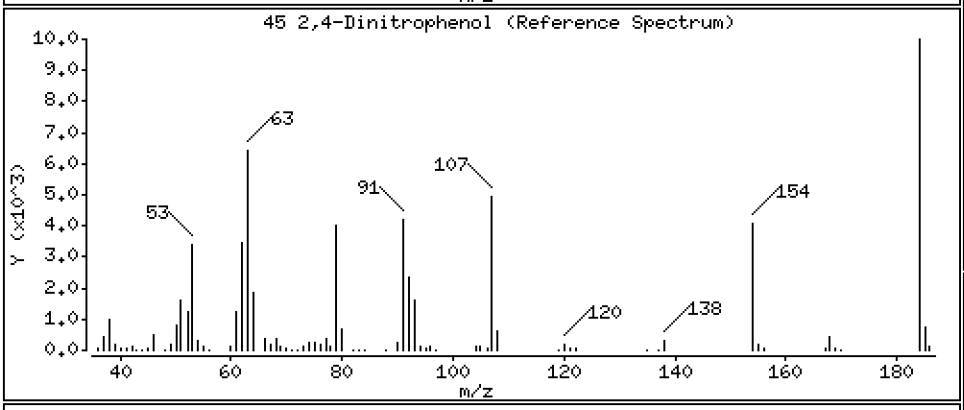
Column diameter: 0.25

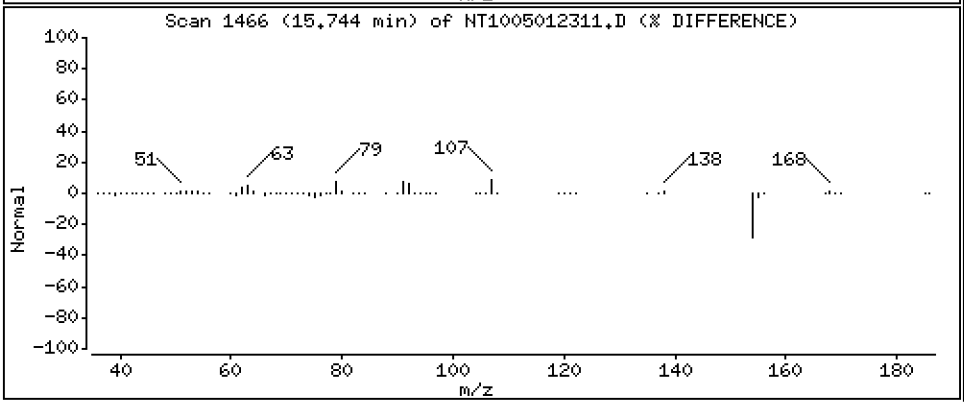
45 2,4-Dinitrophenol

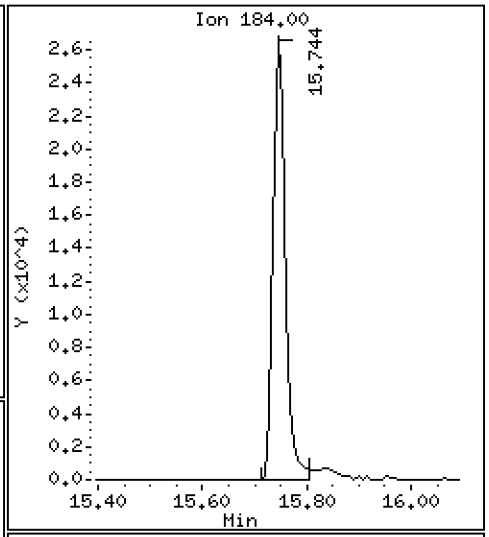
Concentration: 2.376 ug/mL

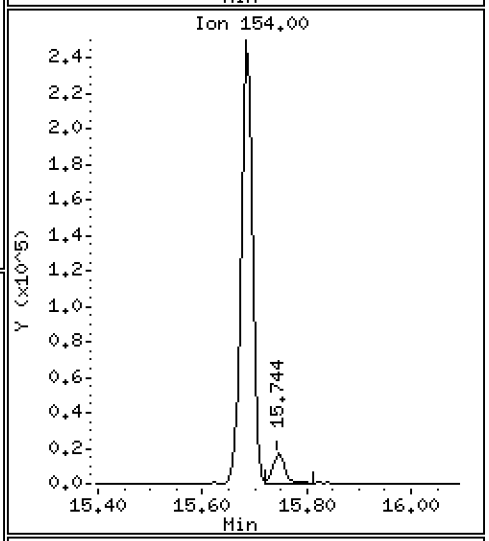


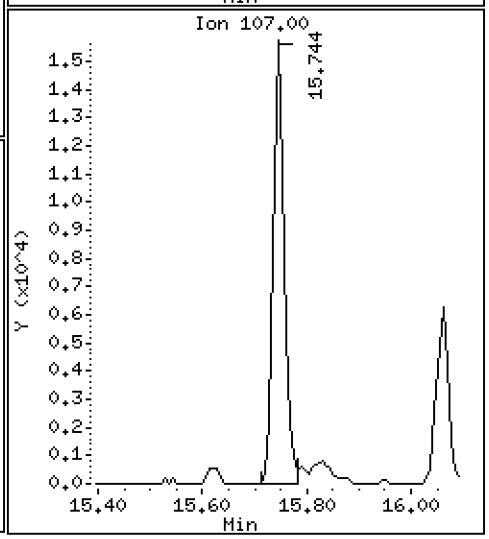












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

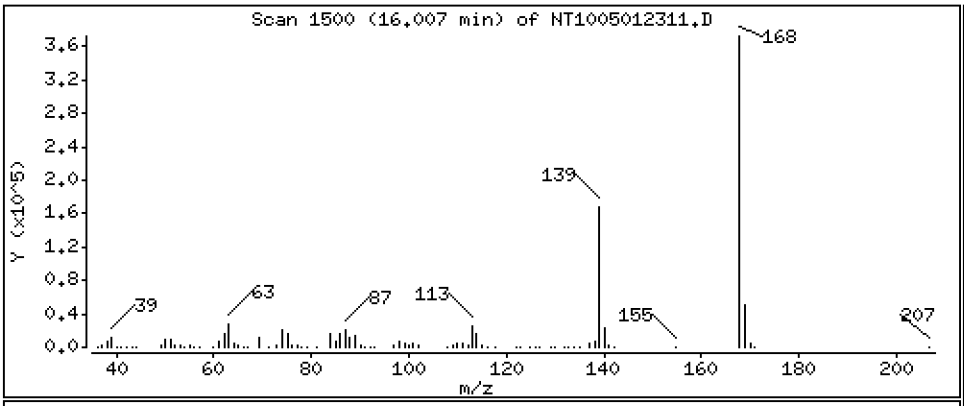
Operator: VTS

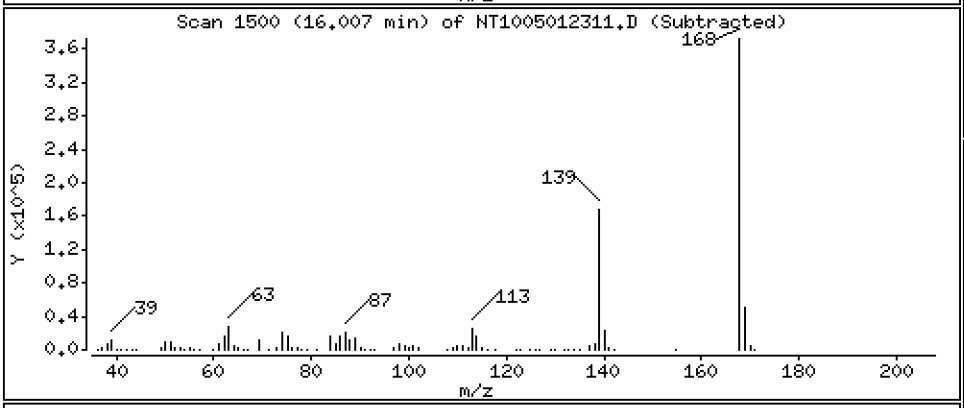
Column phase: ZB-5msi

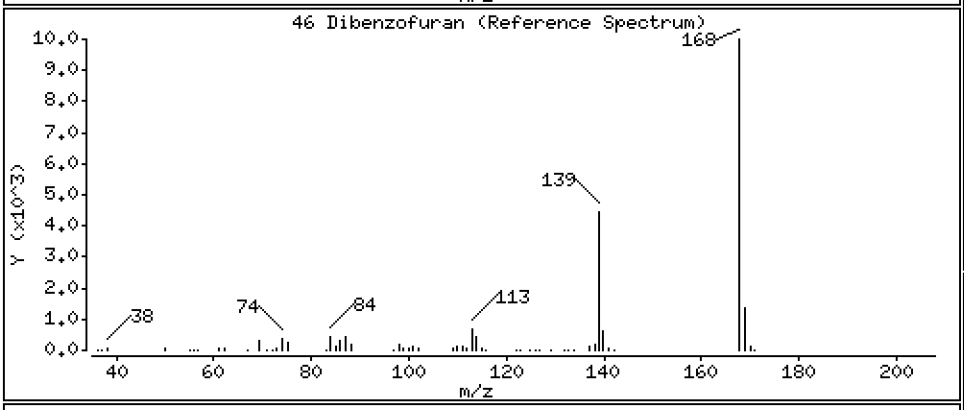
Column diameter: 0.25

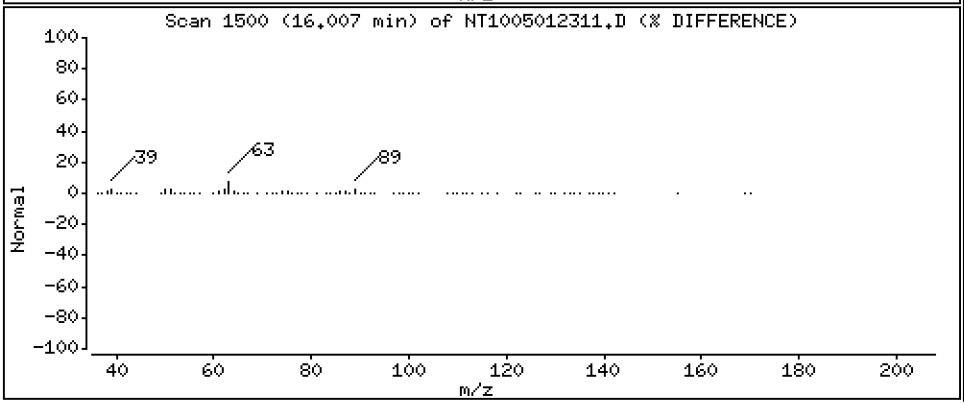
46 Dibenzofuran

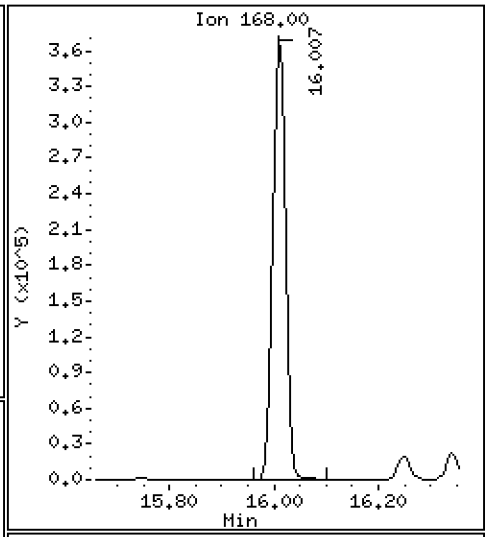
Concentration: 4.645 ug/mL

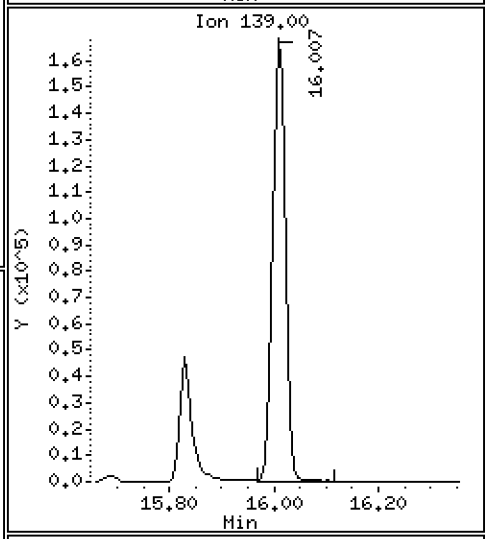


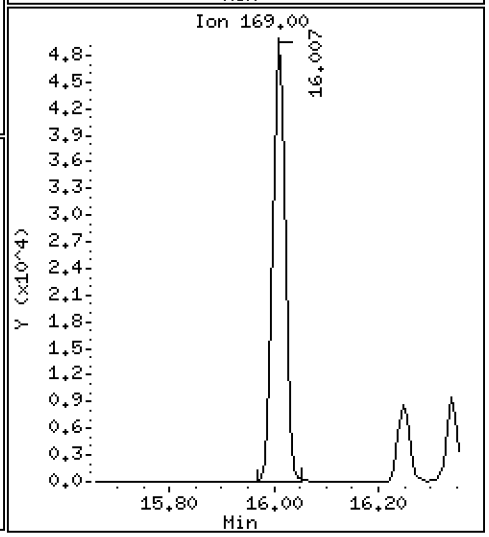












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

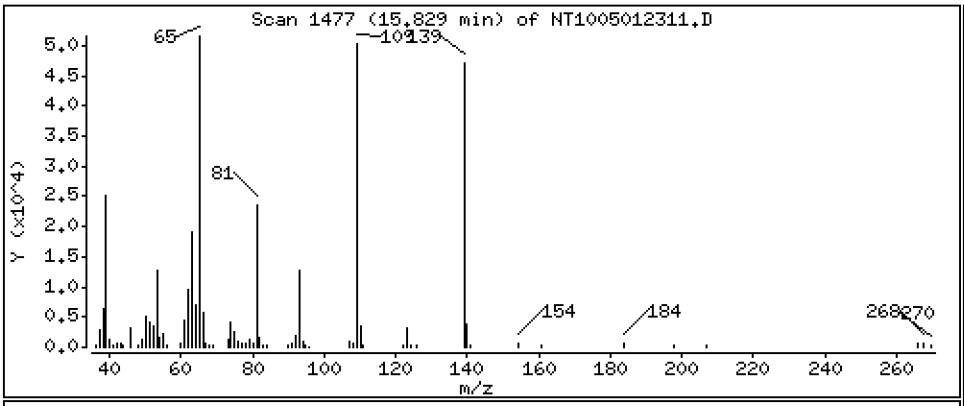
Operator: VTS

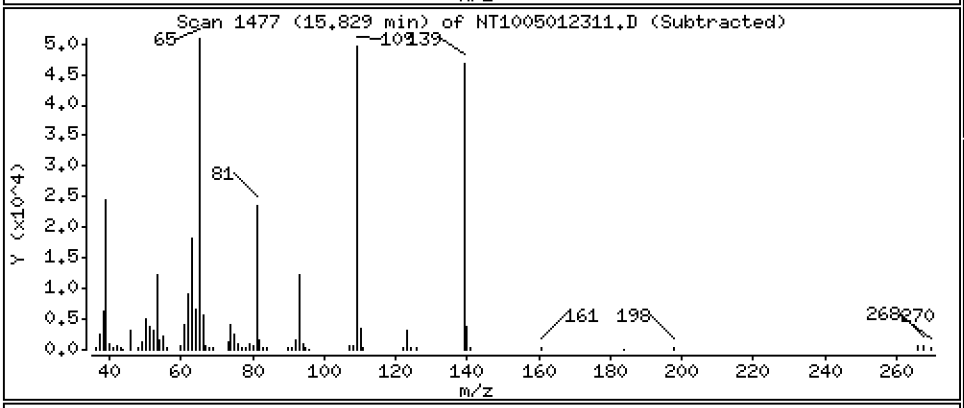
Column phase: ZB-5msi

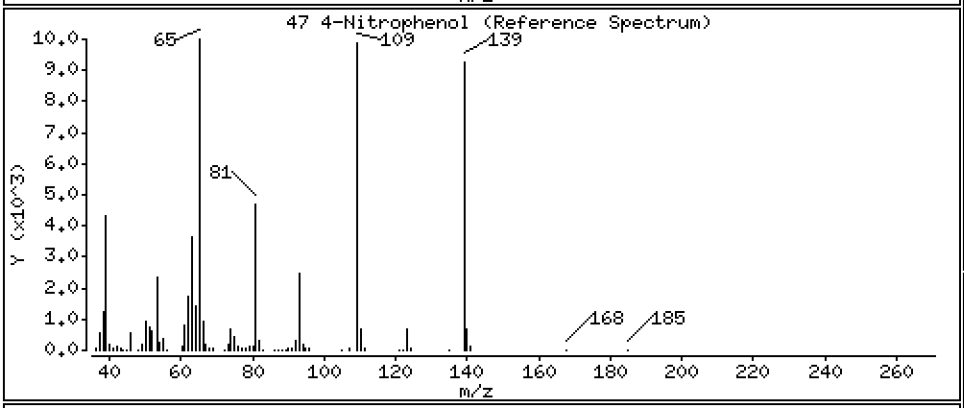
Column diameter: 0.25

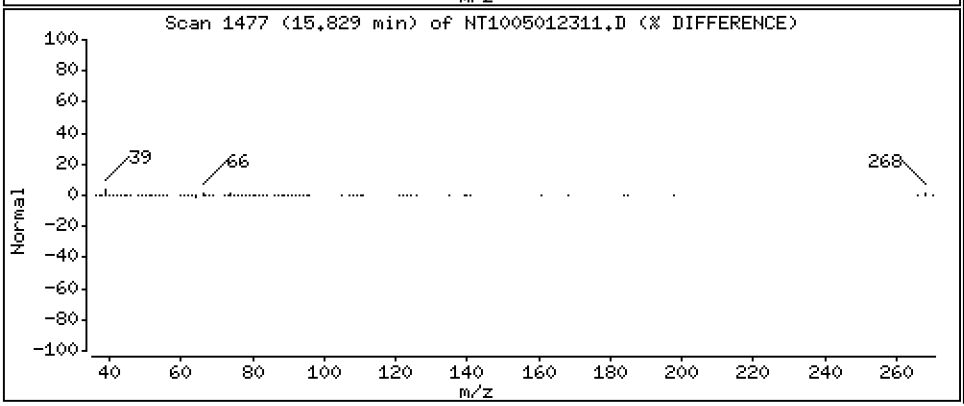
47 4-Nitrophenol

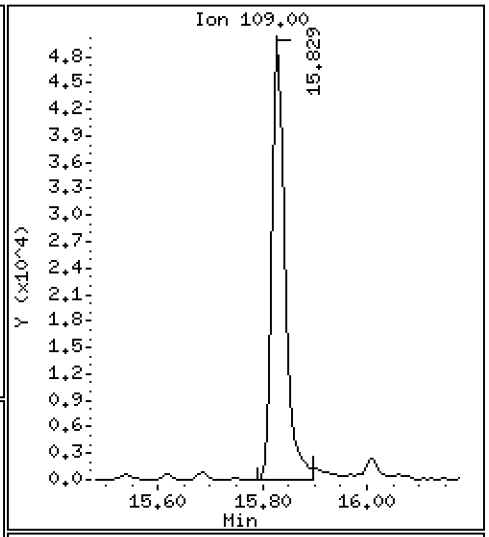
Concentration: 3.992 ug/mL

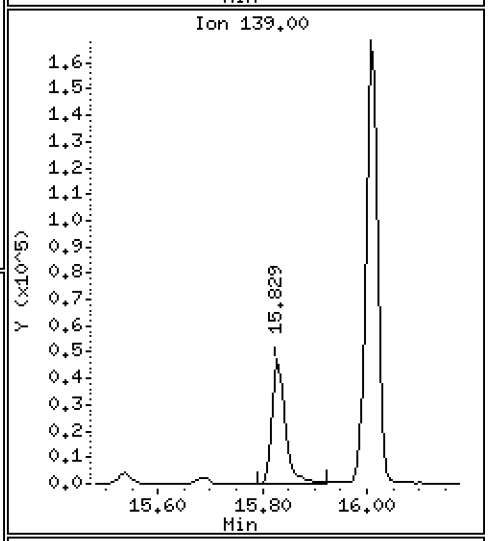


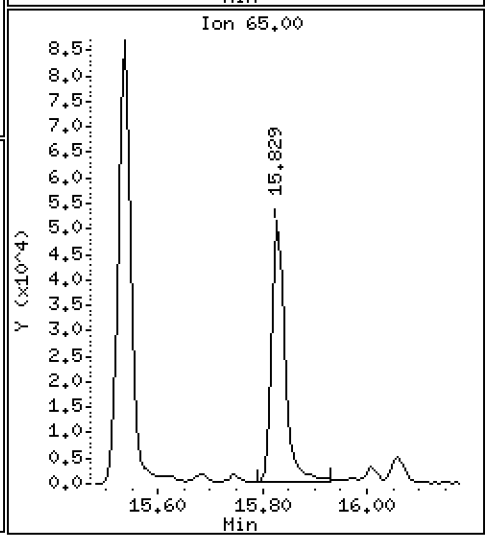












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

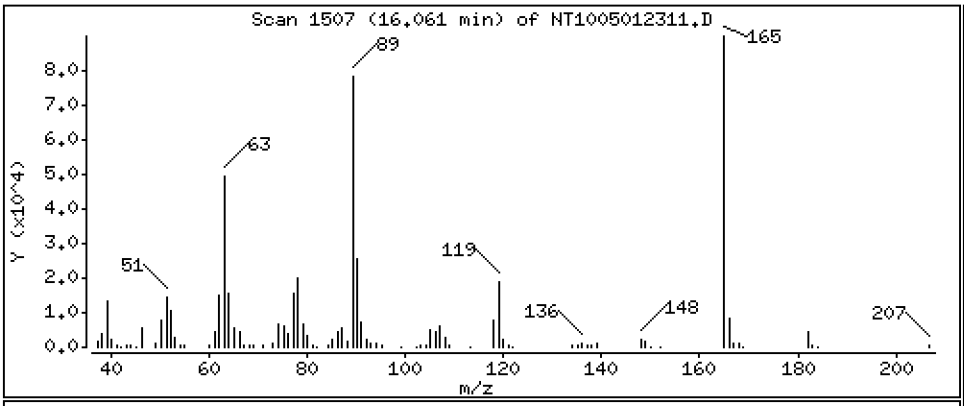
Operator: VTS

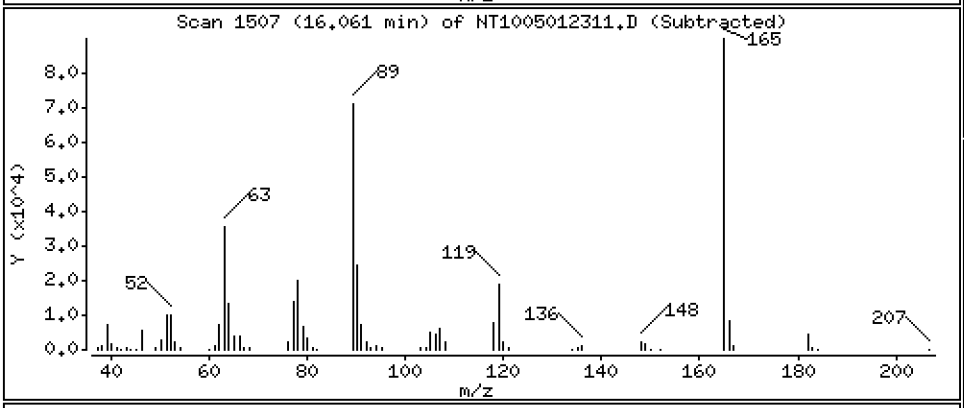
Column phase: ZB-5msi

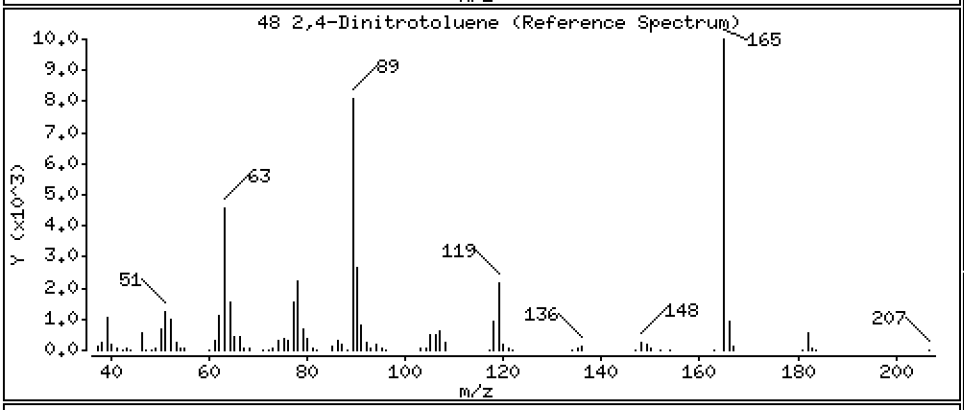
Column diameter: 0.25

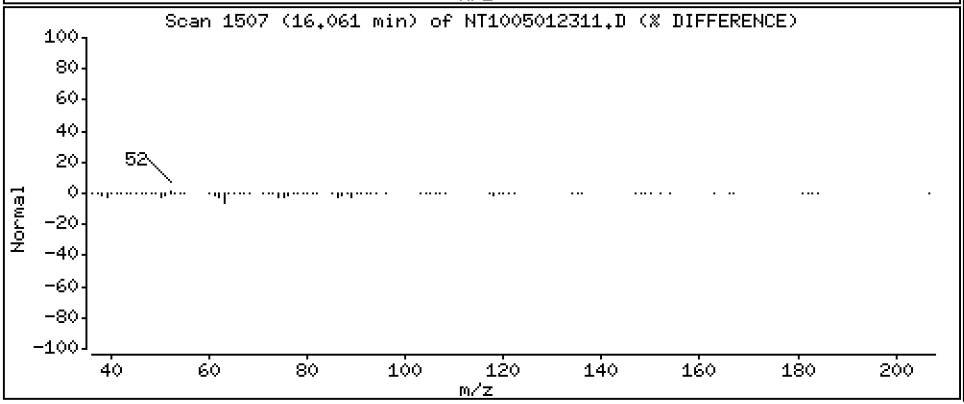
48 2,4-Dinitrotoluene

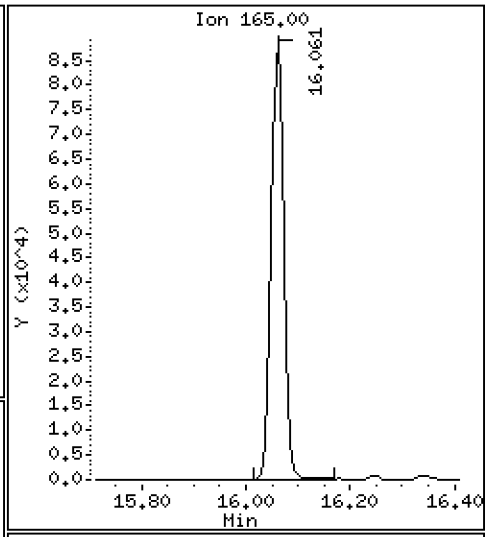
Concentration: 4.381 ug/mL

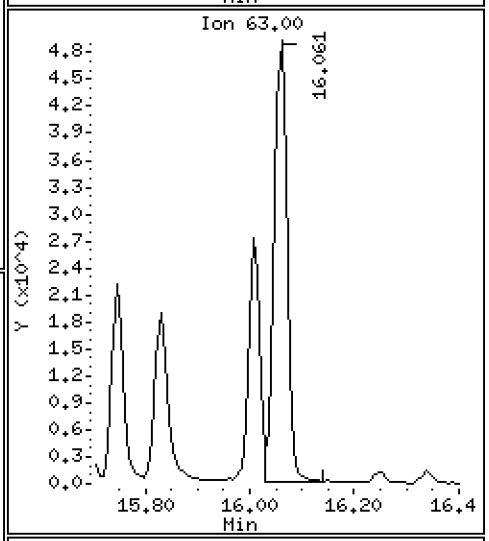


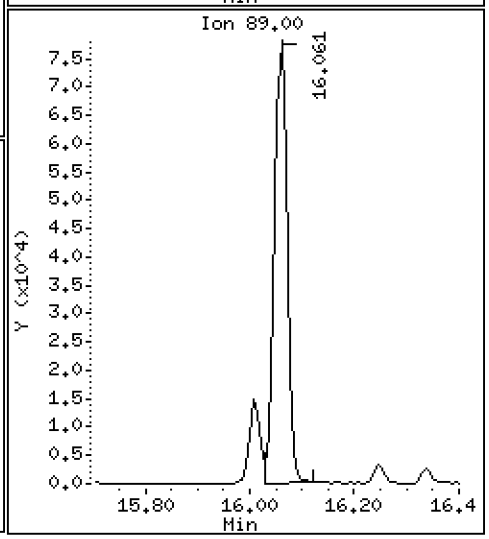












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

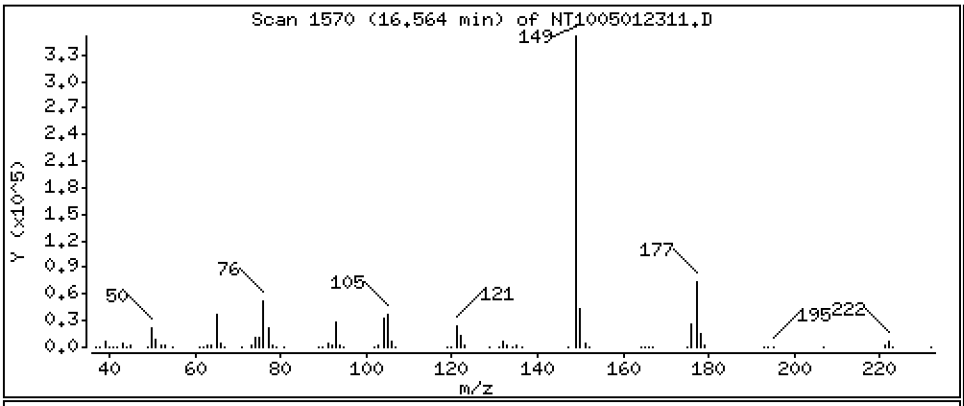
Operator: VTS

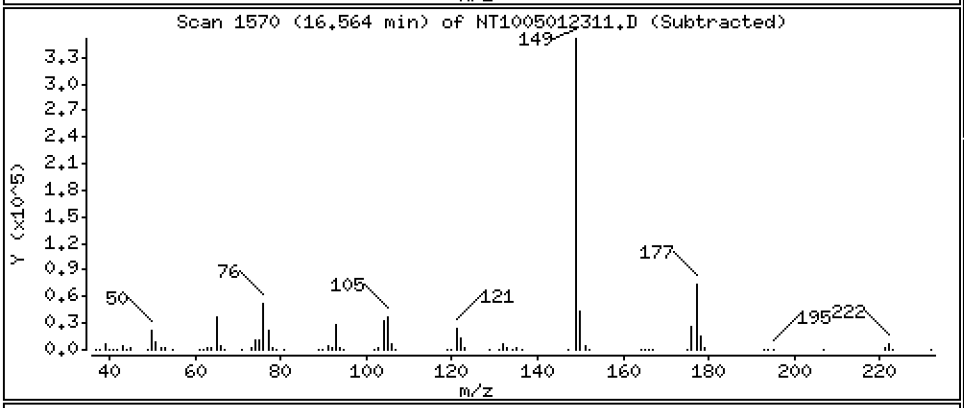
Column phase: ZB-5msi

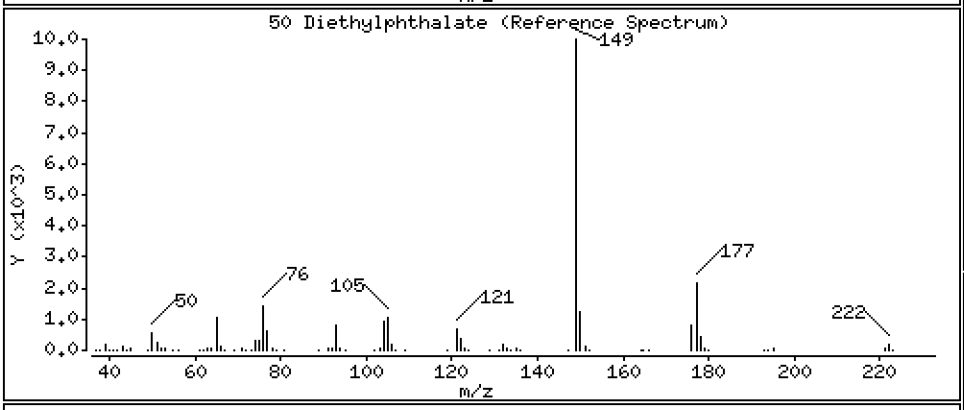
Column diameter: 0.25

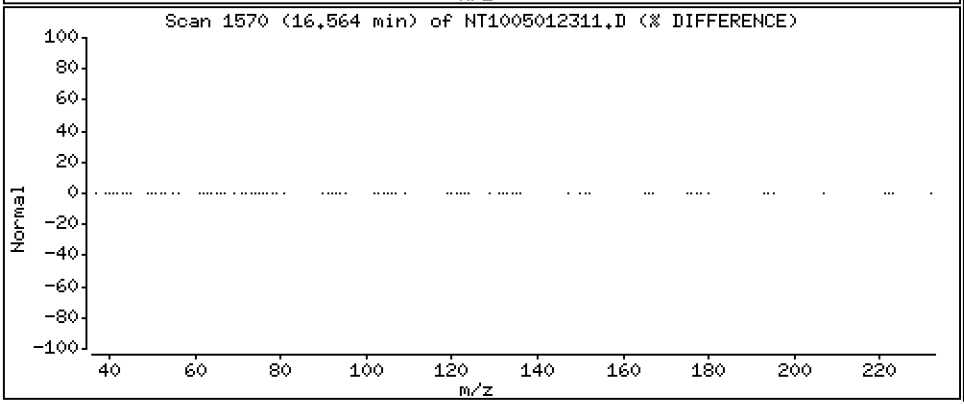
50 Diethylphthalate

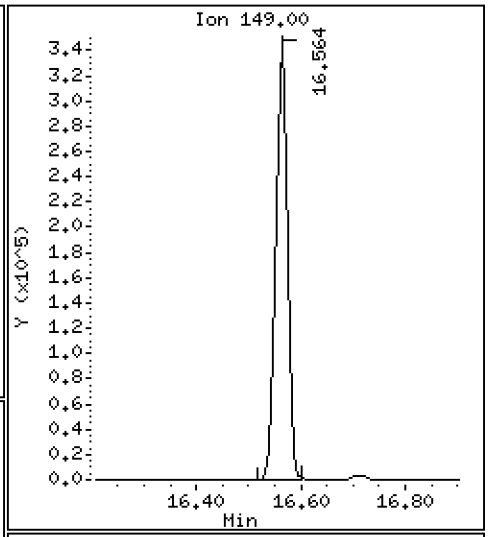
Concentration: 5.055 ug/mL

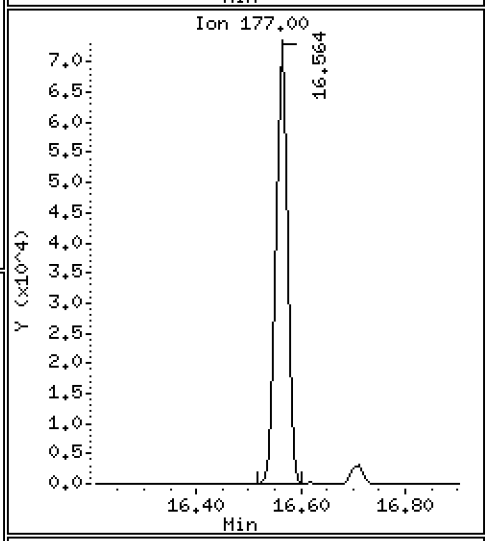


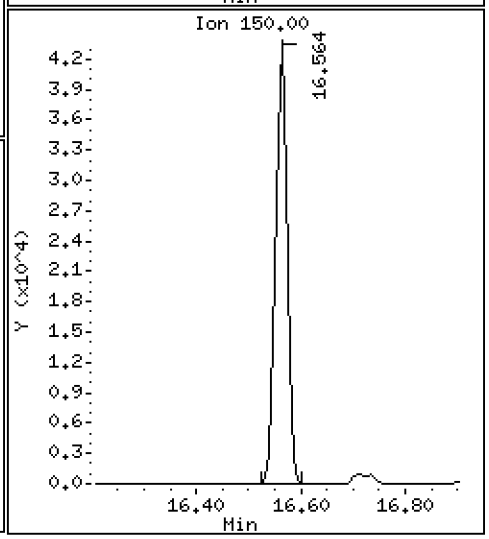












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

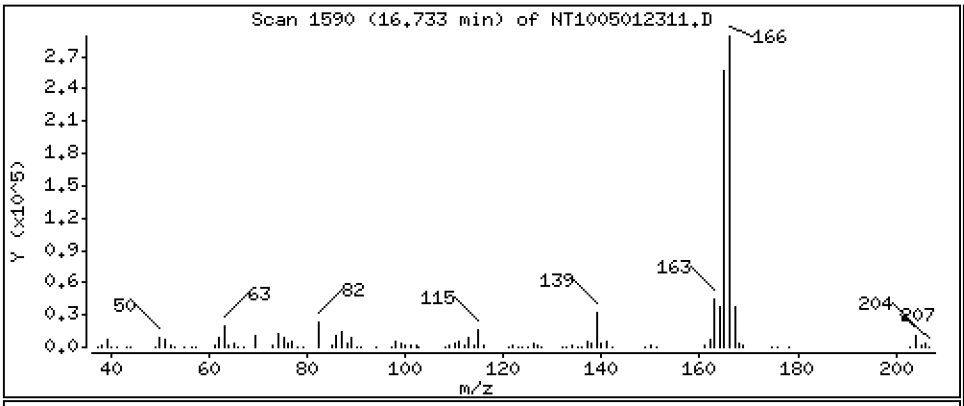
Operator: VTS

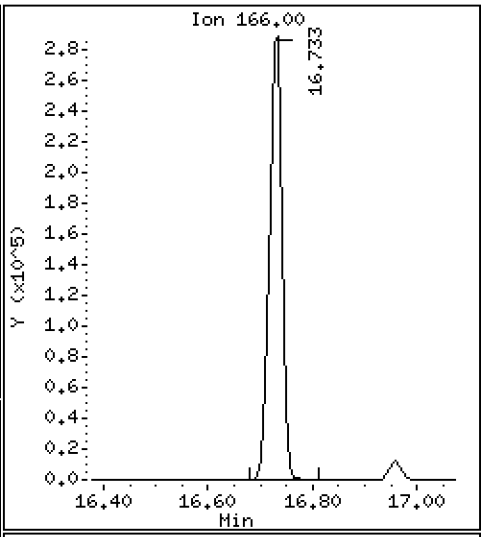
Column phase: ZB-5msi

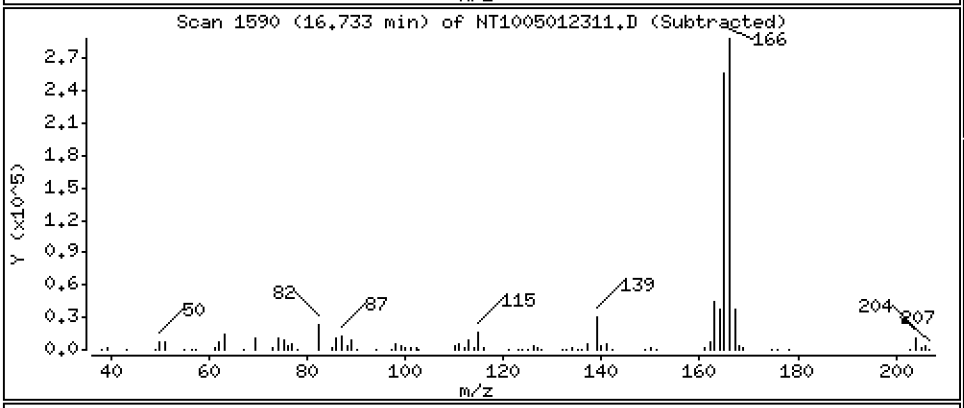
Column diameter: 0.25

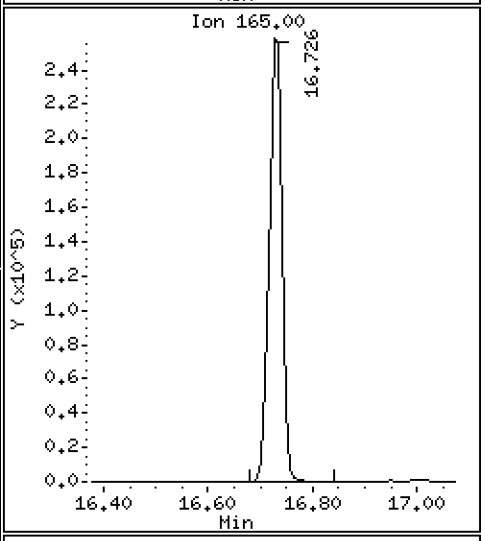
49 Fluorene

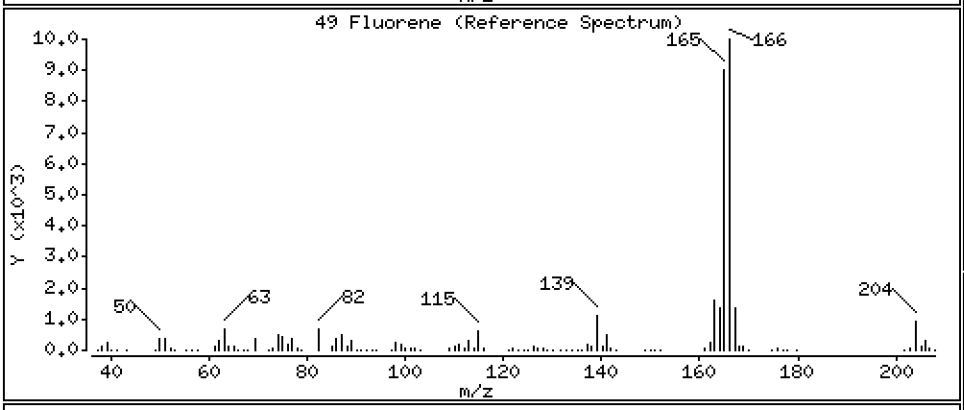
Concentration: 4.559 ug/mL

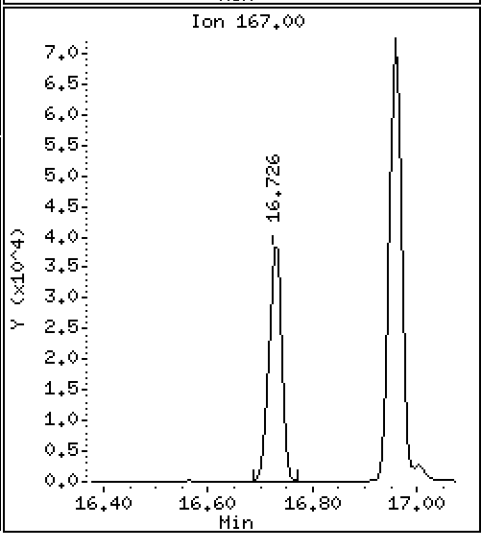


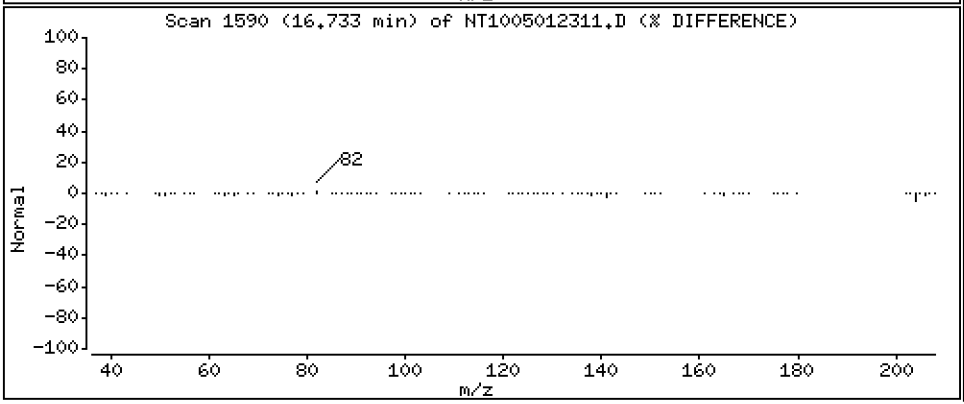












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

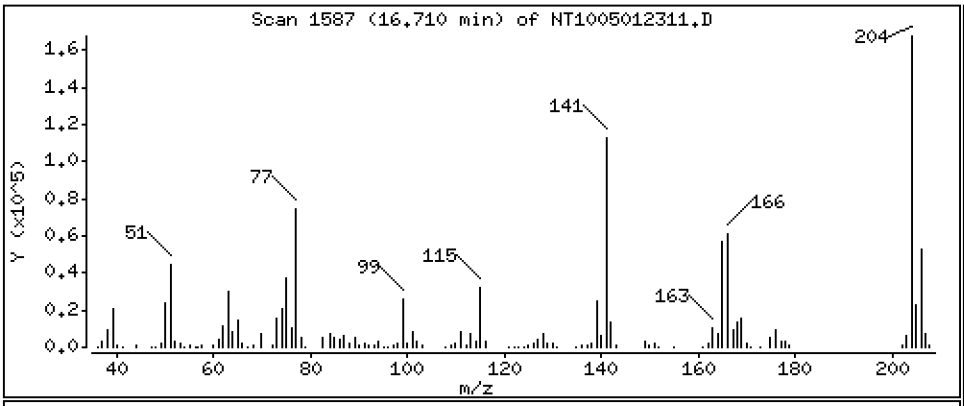
Operator: VTS

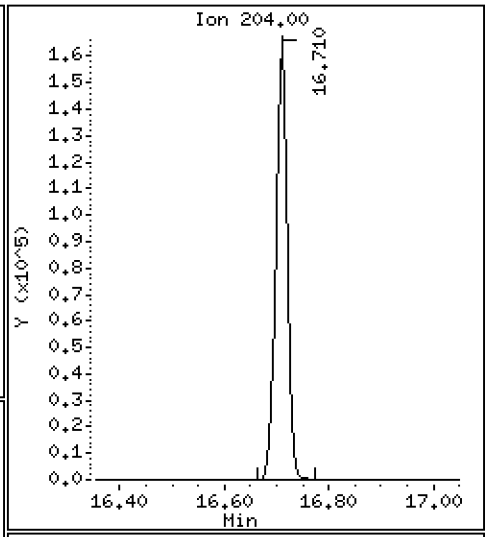
Column phase: ZB-5msi

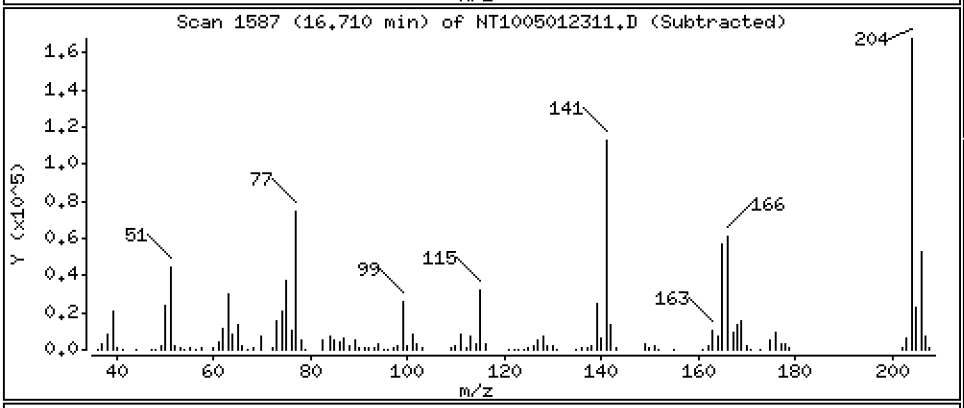
Column diameter: 0.25

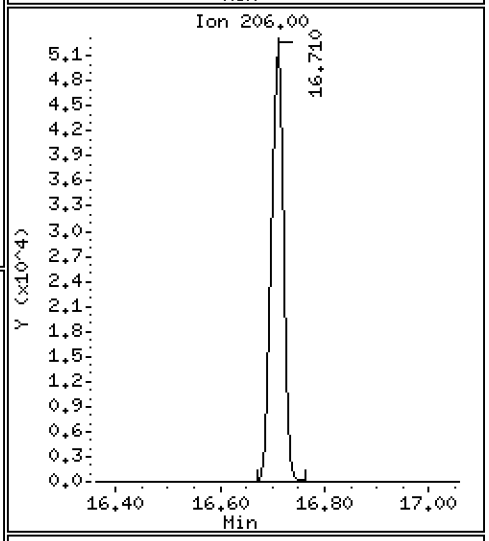
51 4-Chlorophenyl-phenylether

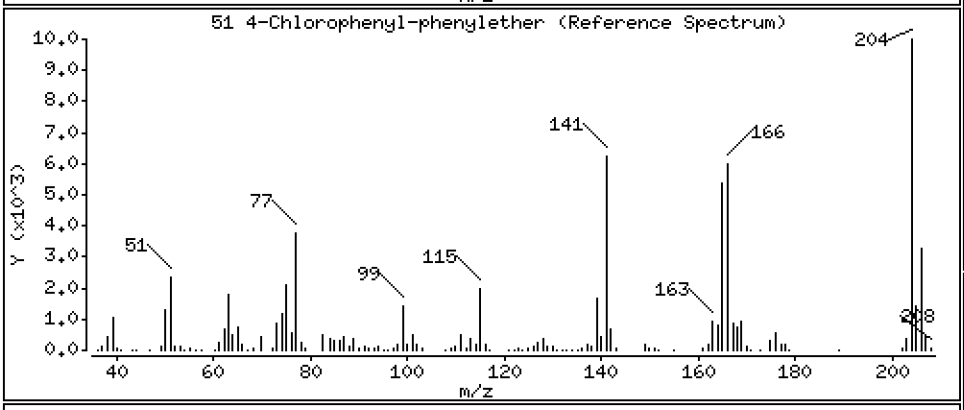
Concentration: 4.797 ug/mL

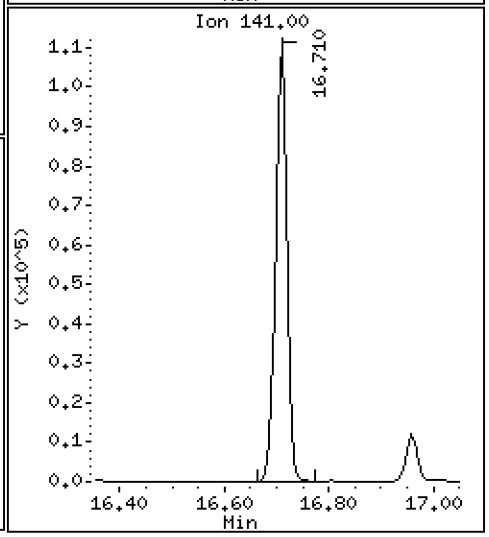


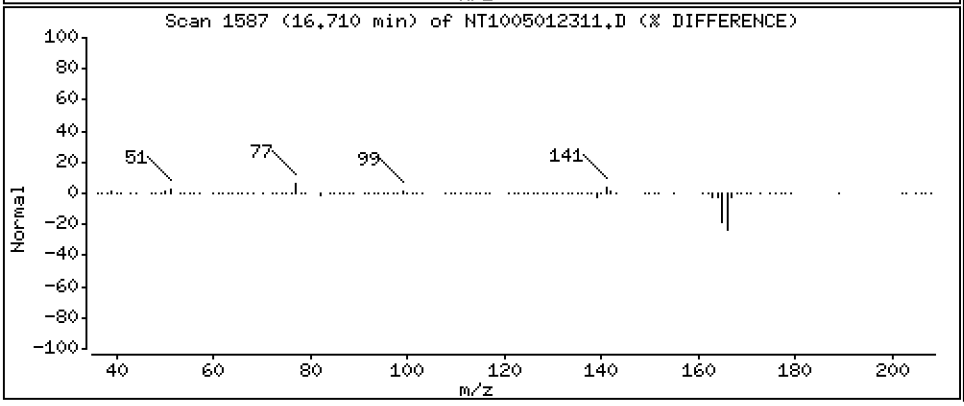












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

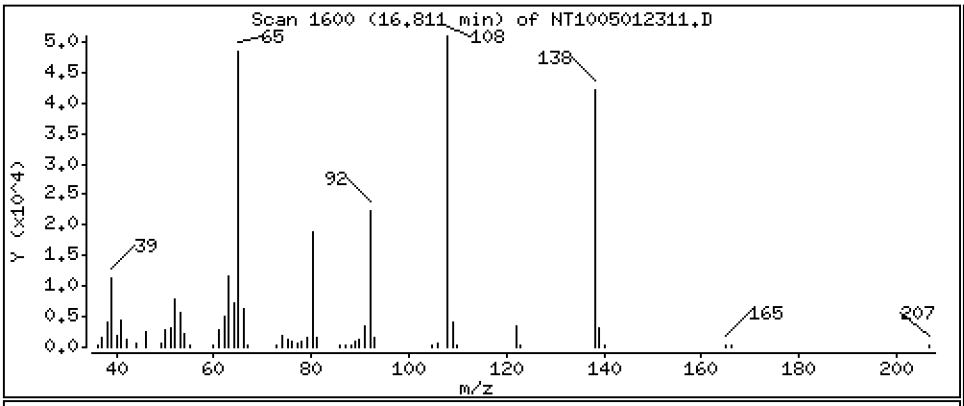
Operator: VTS

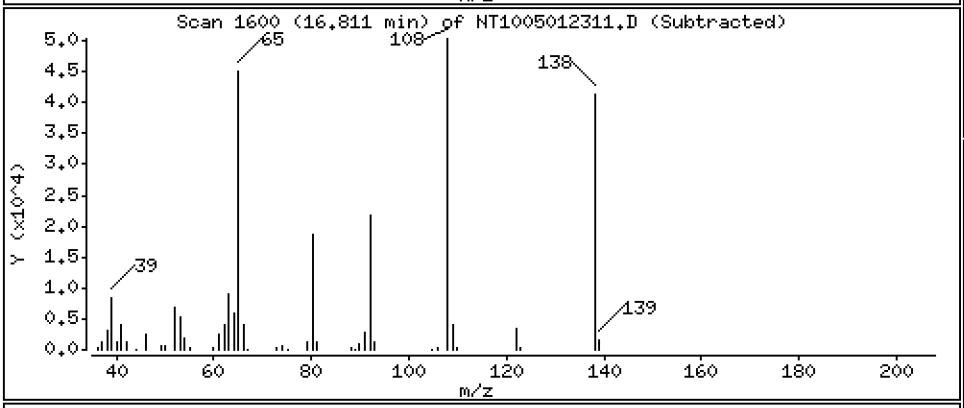
Column phase: ZB-5msi

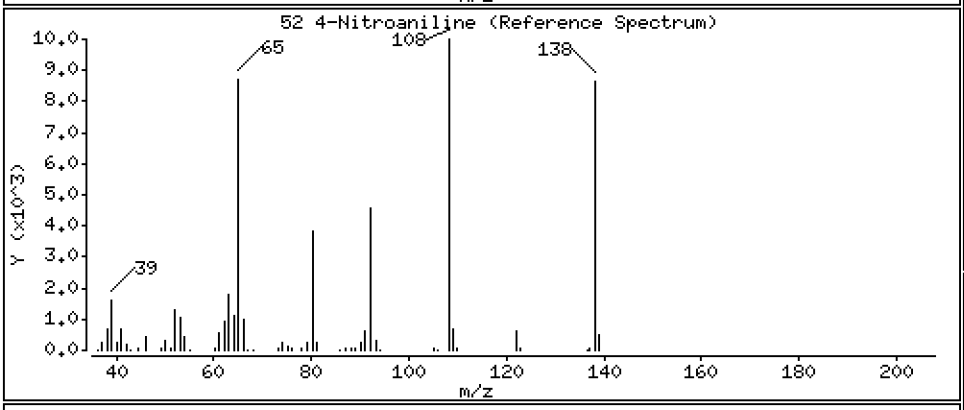
Column diameter: 0.25

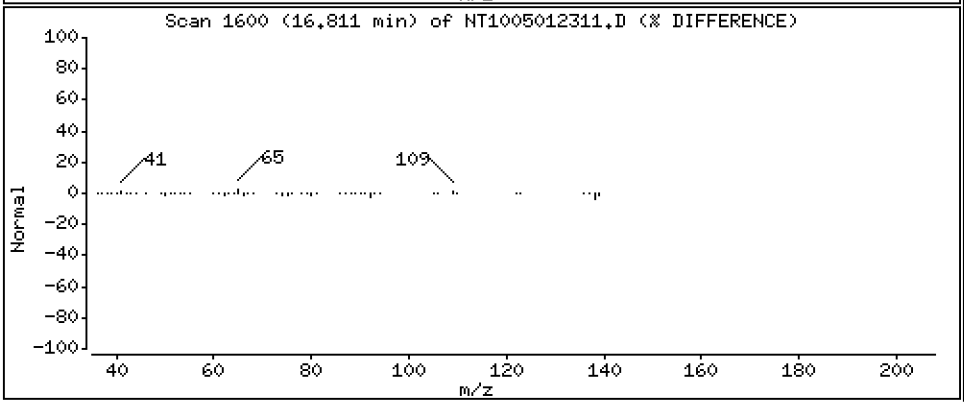
52 4-Nitroaniline

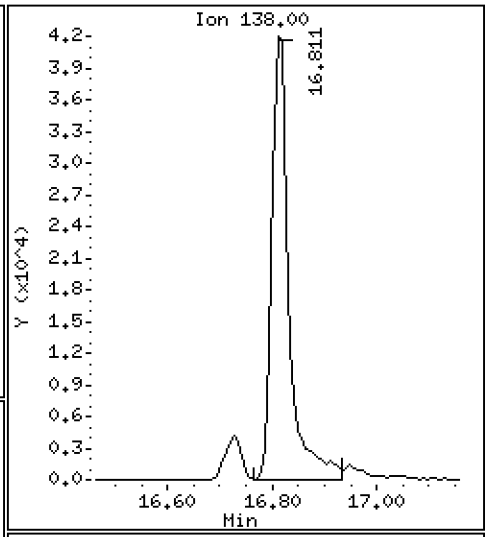
Concentration: 4.293 ug/mL

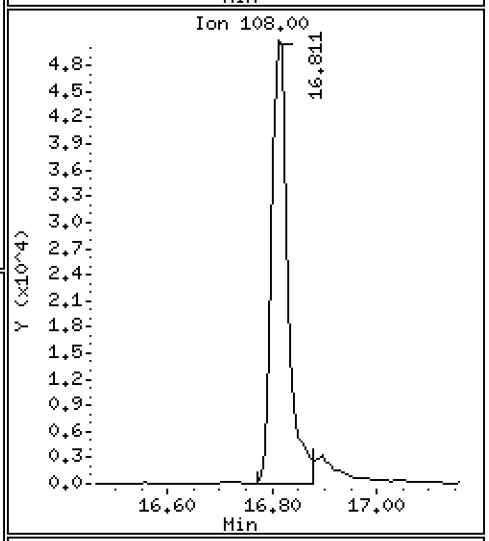


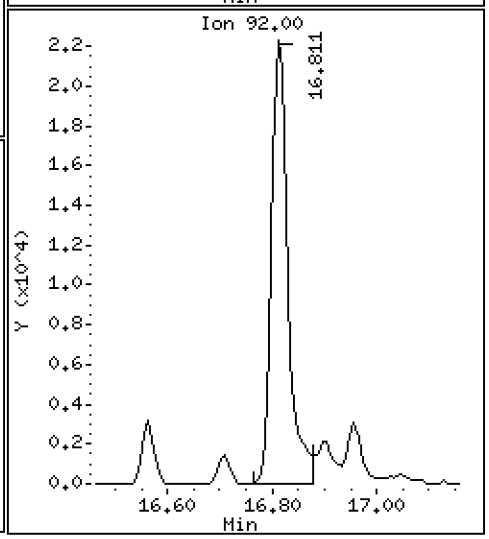












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

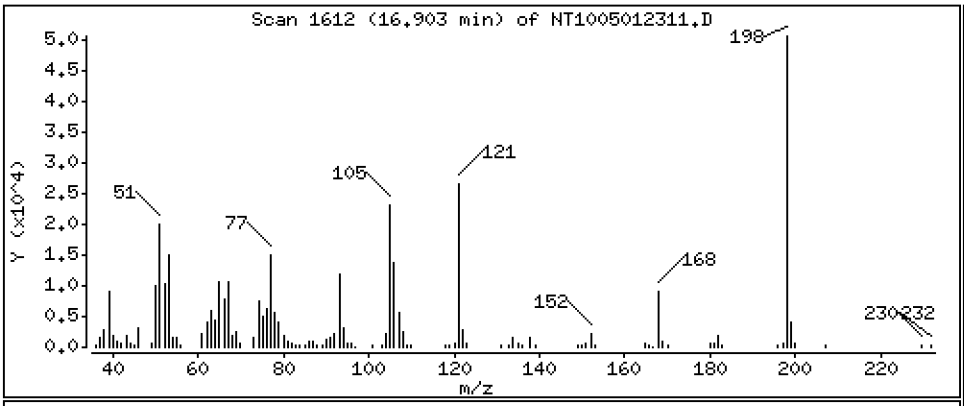
Operator: VTS

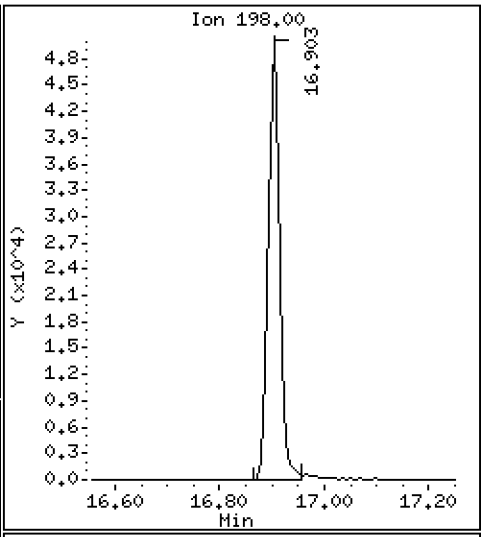
Column phase: ZB-5msi

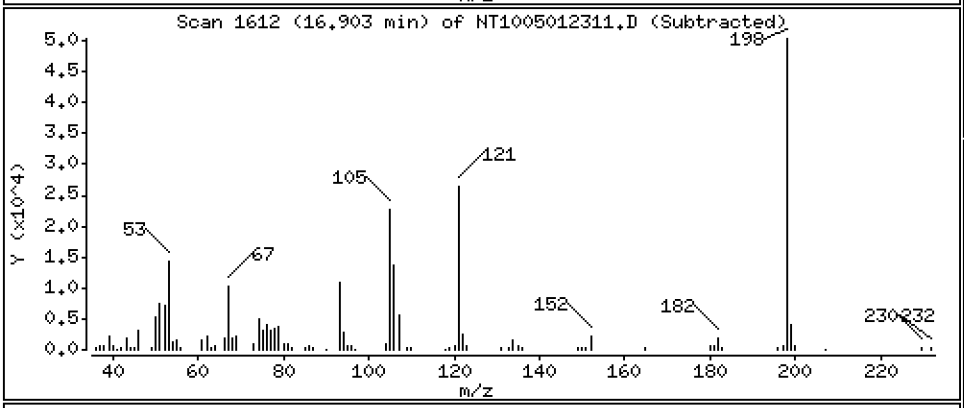
Column diameter: 0.25

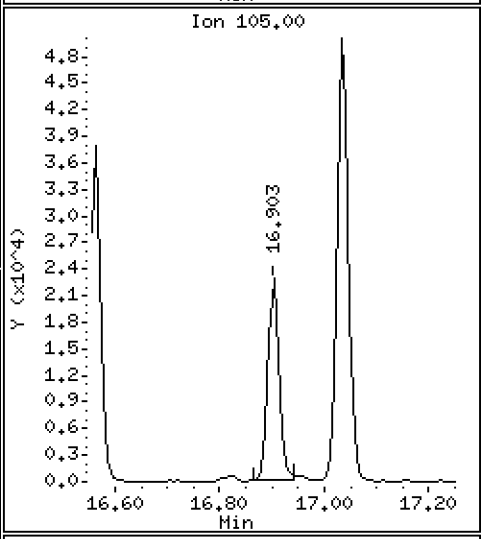
53 4,6-Dinitro-2-methylphenol

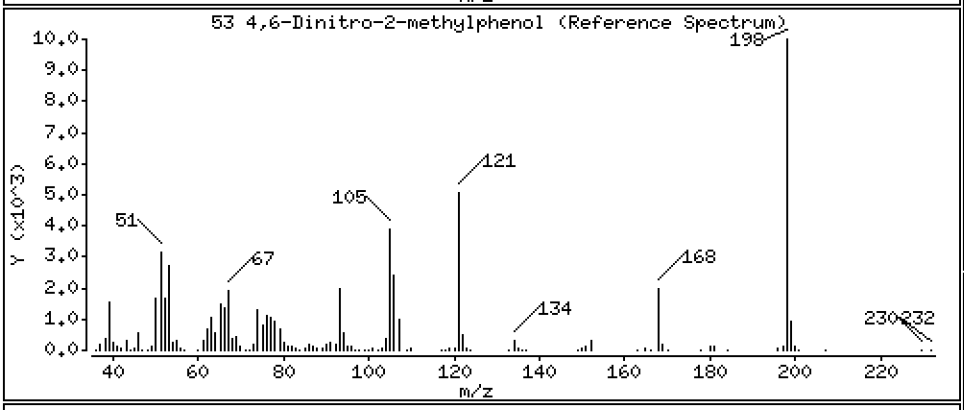
Concentration: 3.760 ug/mL

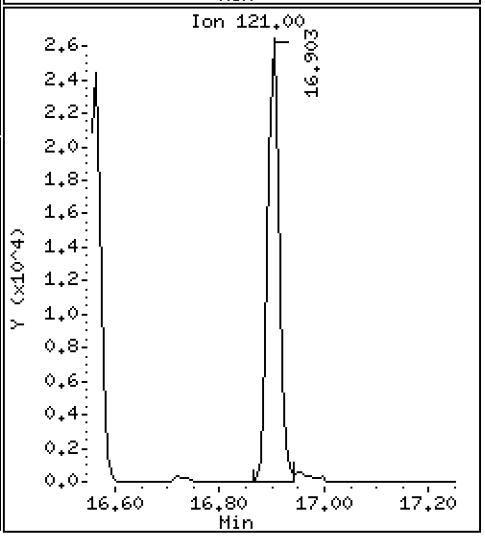


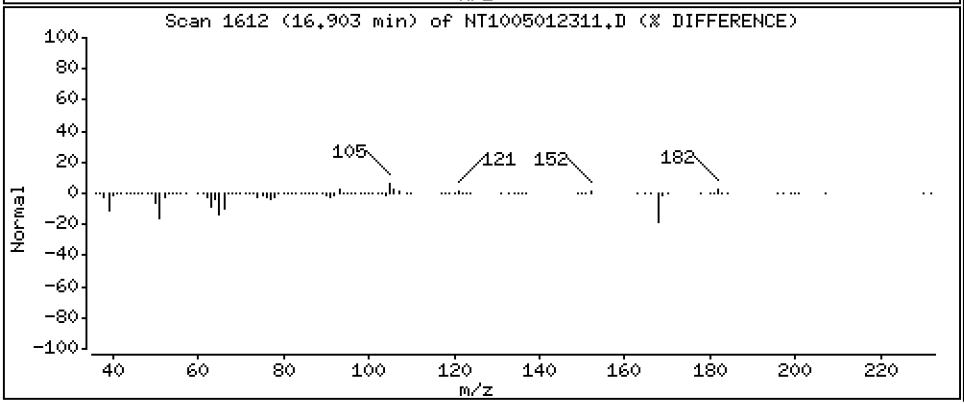












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

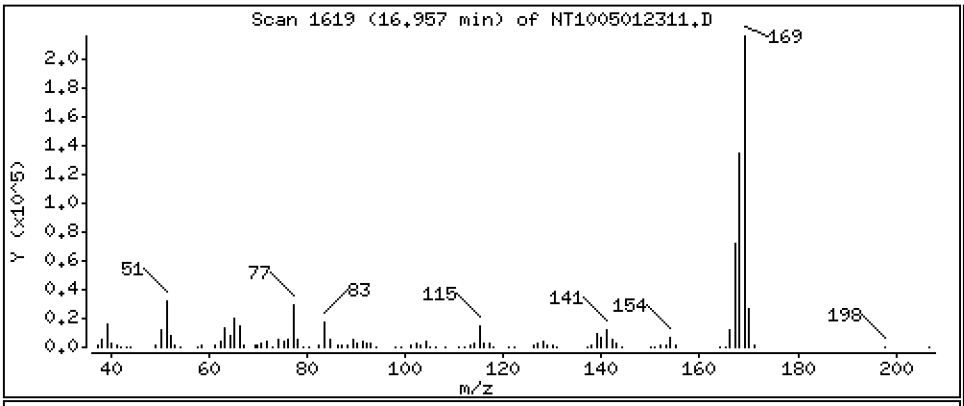
Operator: VTS

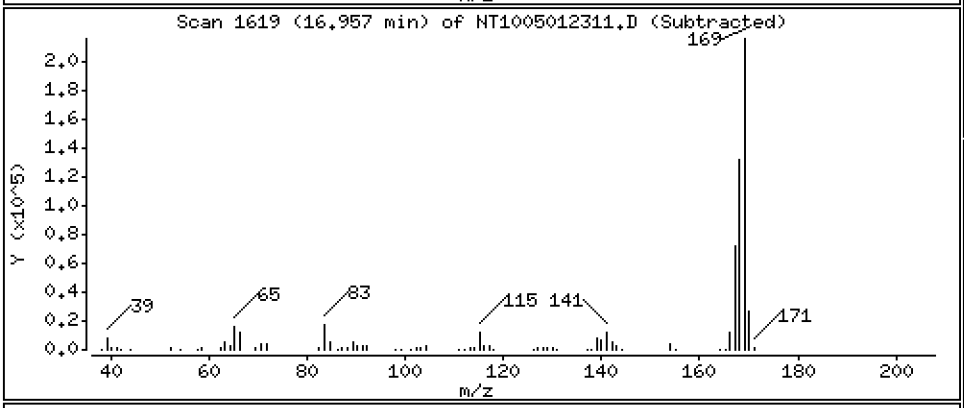
Column phase: ZB-5msi

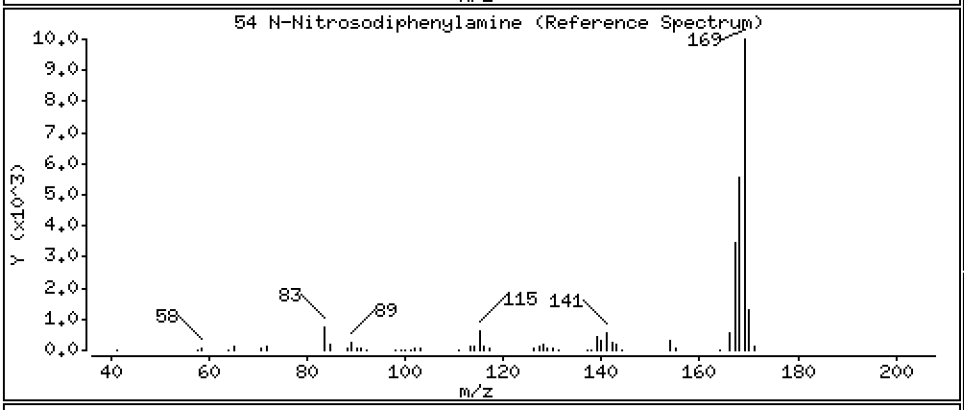
Column diameter: 0.25

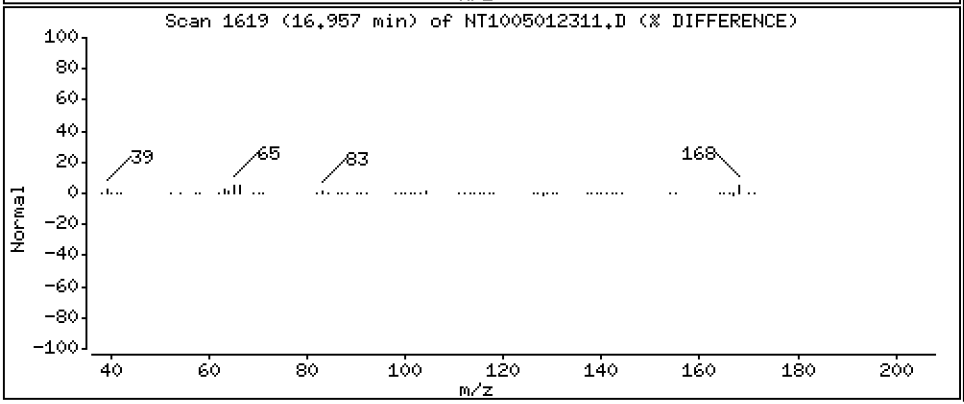
54 N-Nitrosodiphenylamine

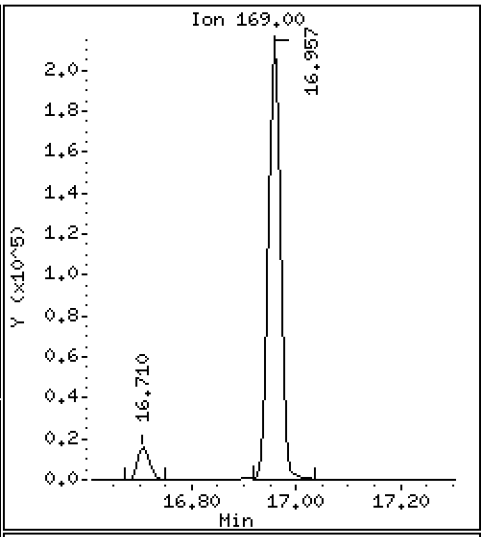
Concentration: 5.125 ug/mL

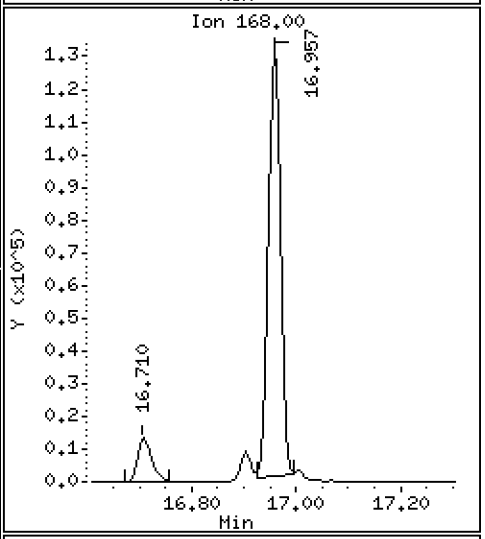


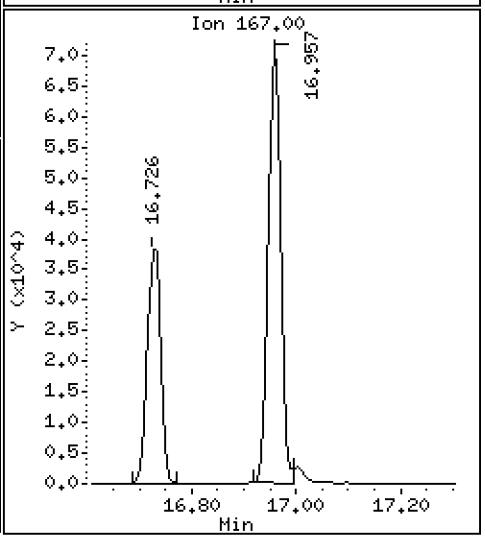












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

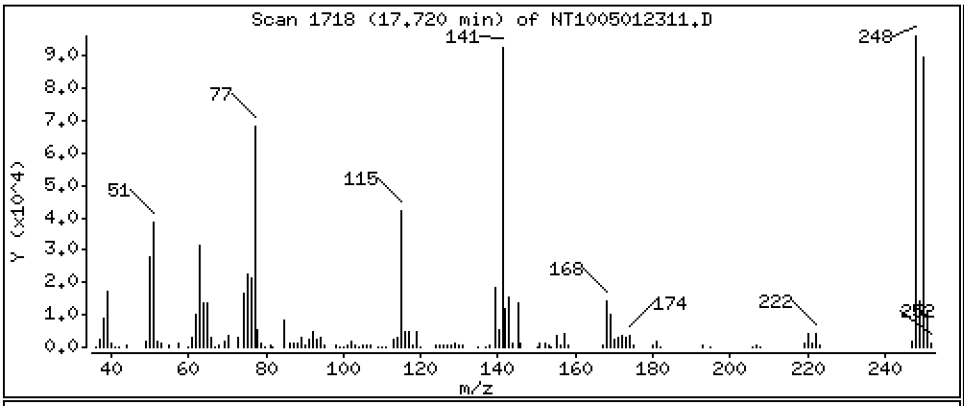
Operator: VTS

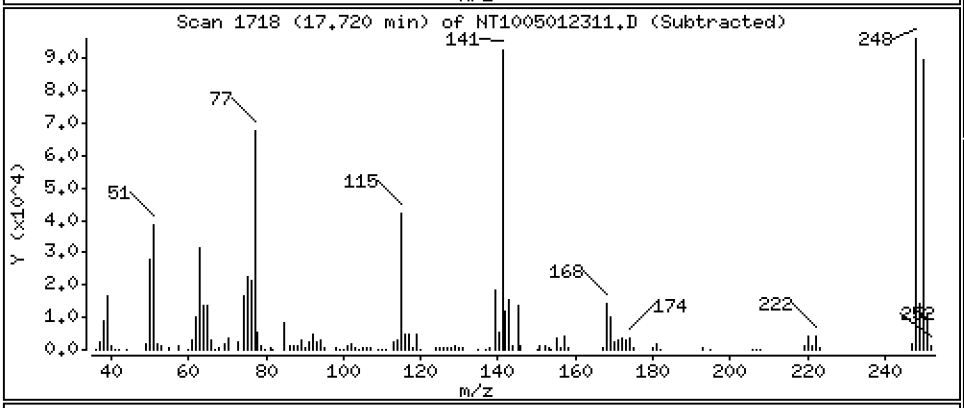
Column phase: ZB-5msi

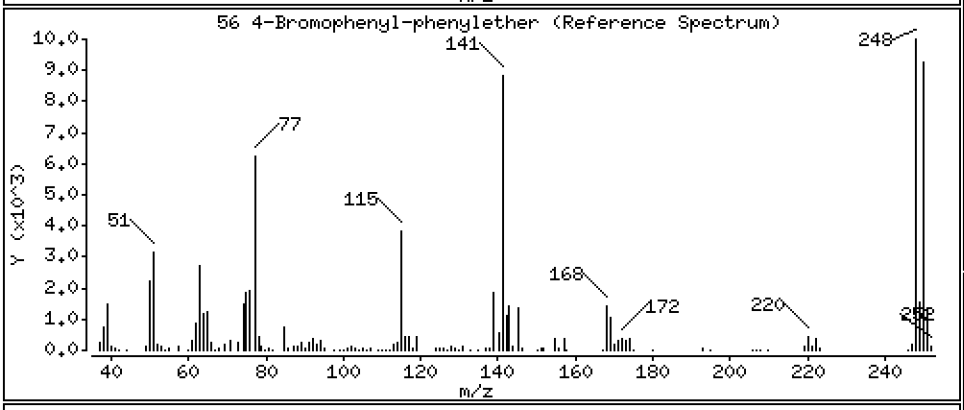
Column diameter: 0.25

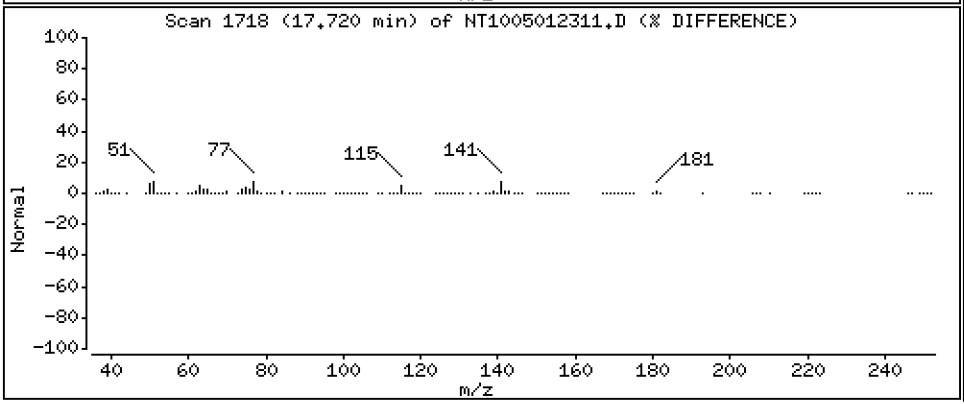
56 4-Bromophenyl-phenylether

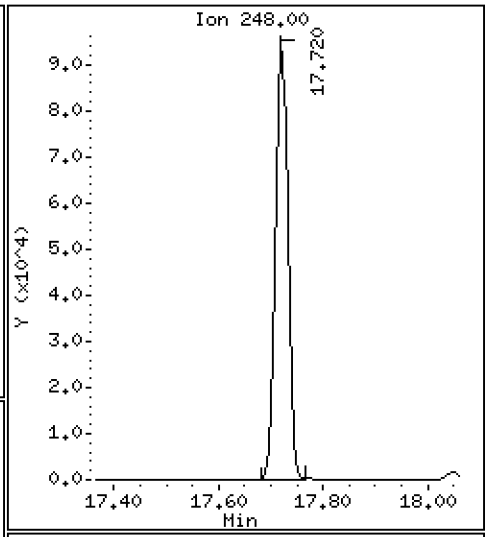
Concentration: 4.942 ug/mL

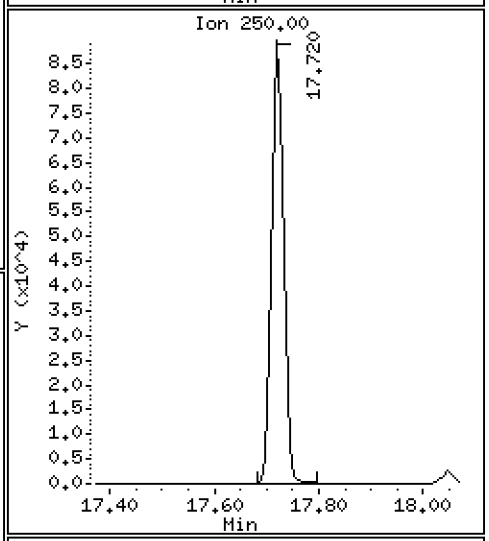


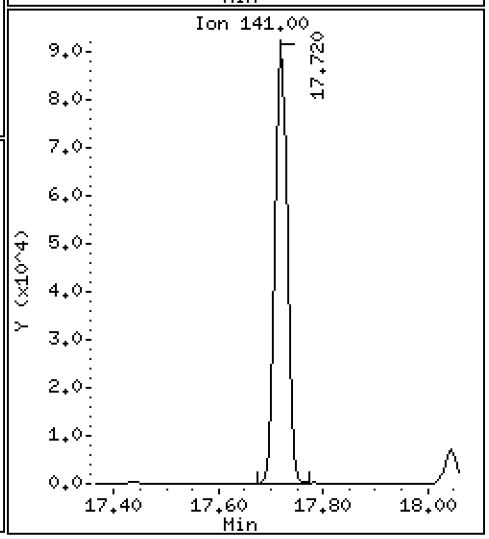












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

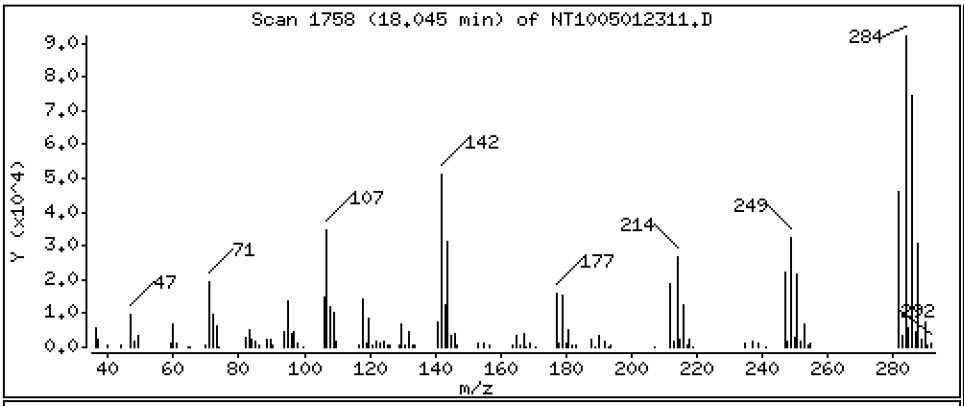
Operator: VTS

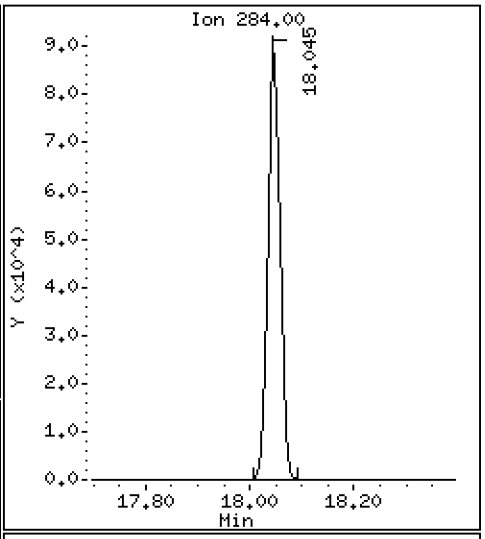
Column phase: ZB-5msi

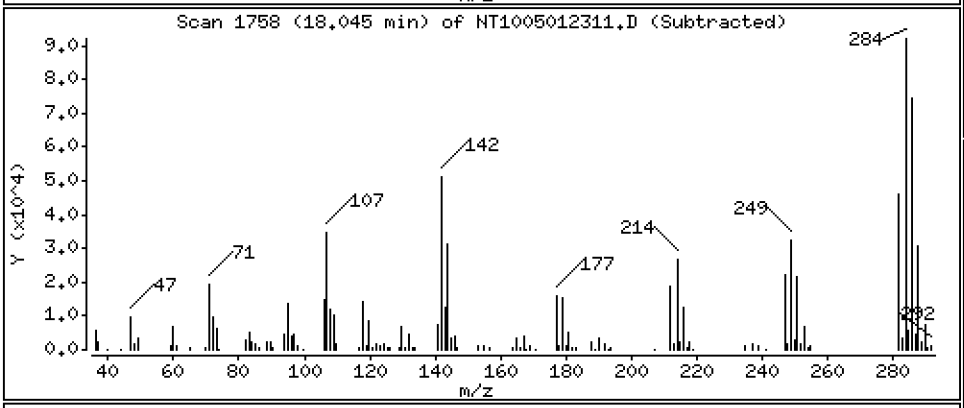
Column diameter: 0.25

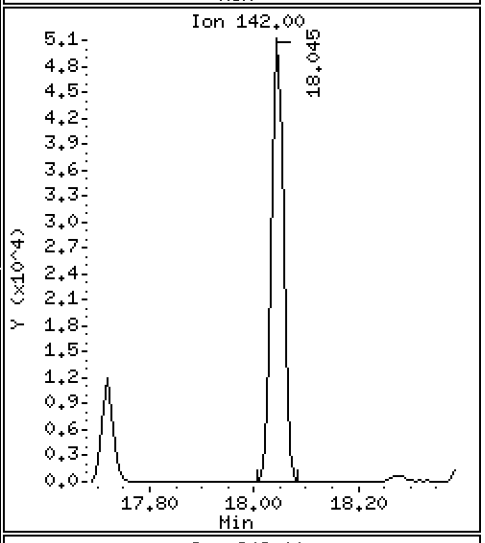
57 Hexachlorobenzene

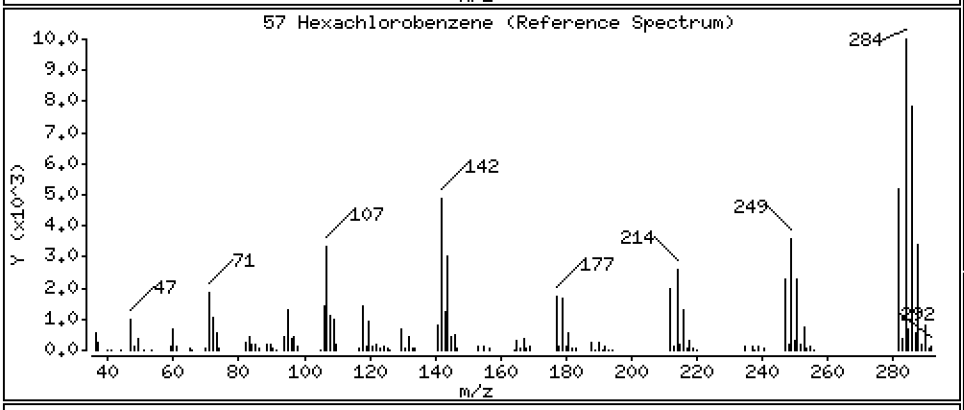
Concentration: 4.689 ug/mL

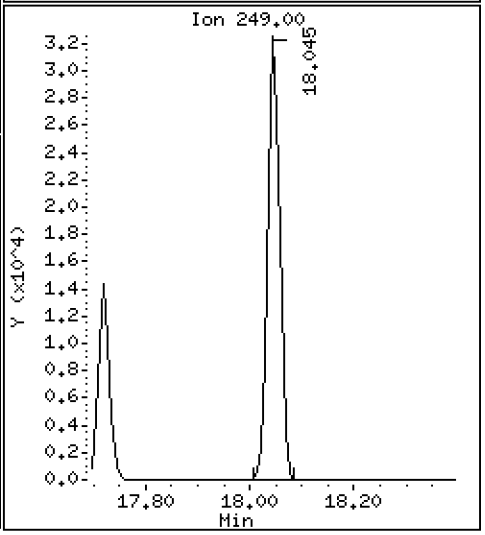


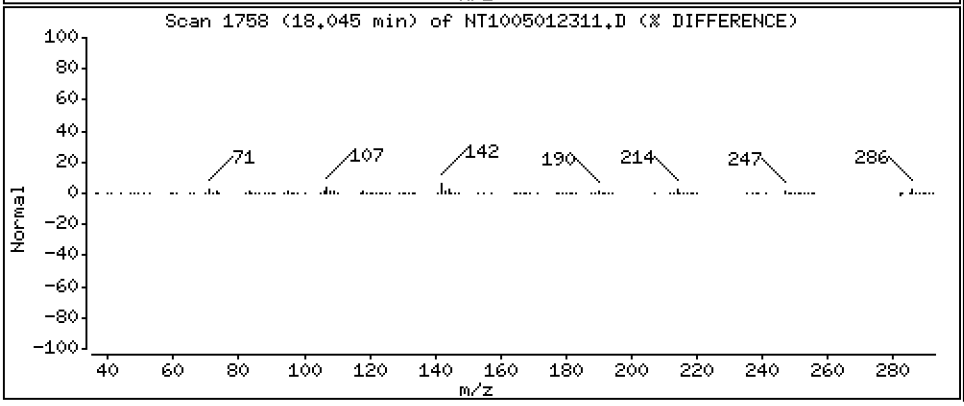












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

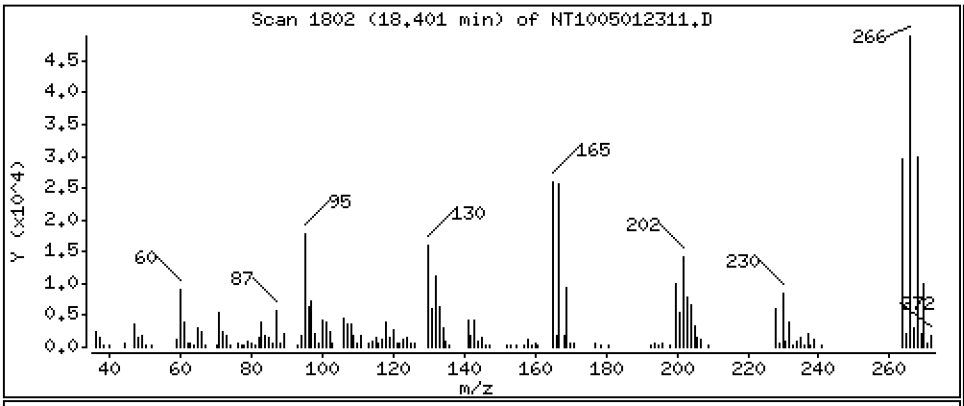
Operator: VTS

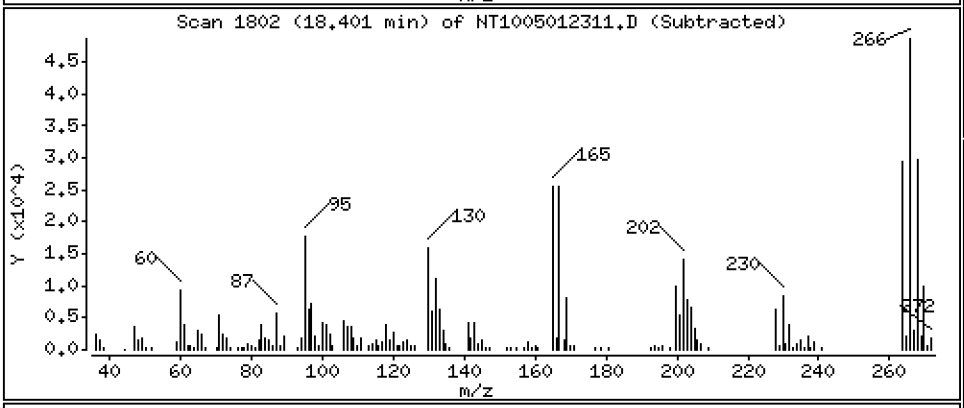
Column phase: ZB-5msi

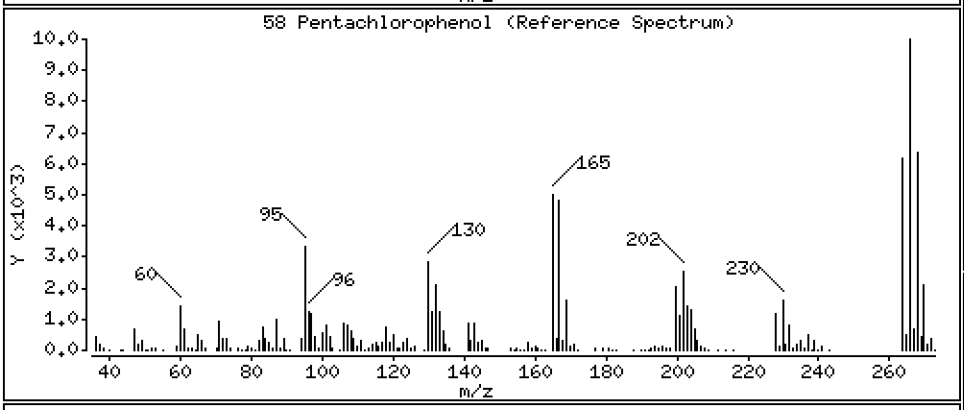
Column diameter: 0.25

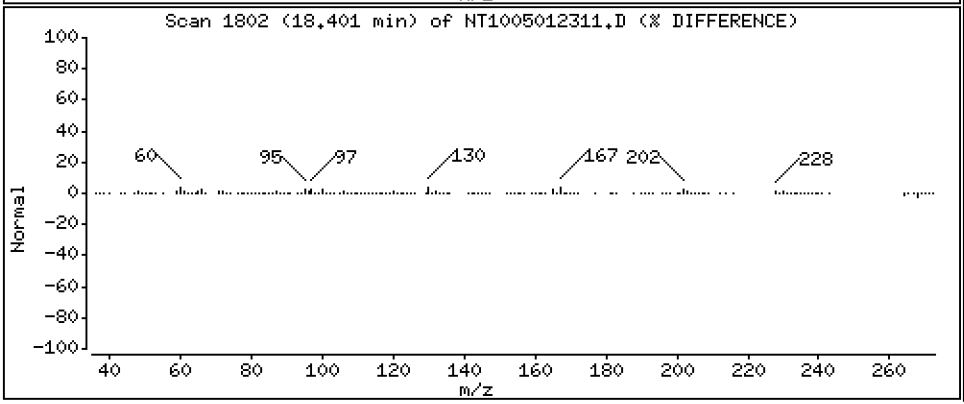
58 Pentachlorophenol

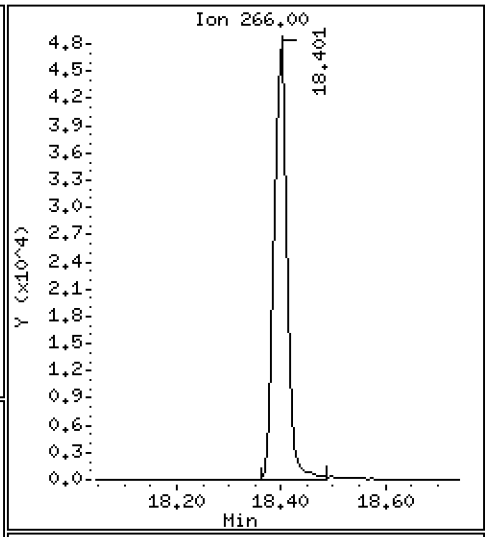
Concentration: 3.866 ug/mL

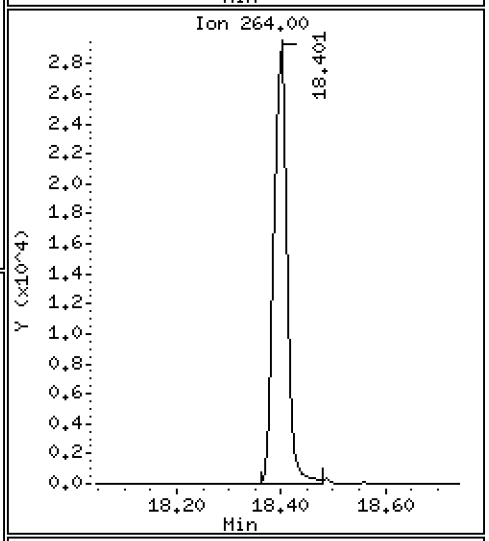


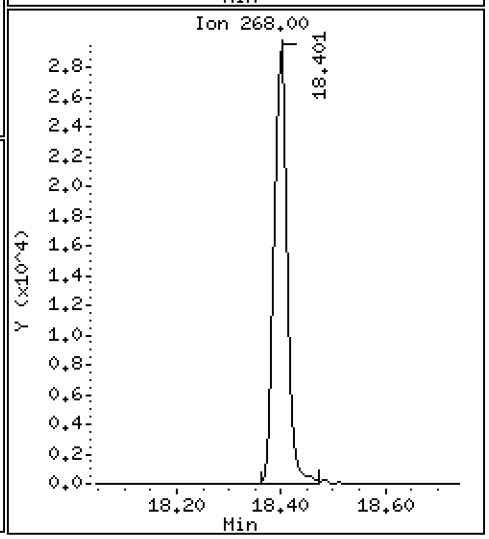












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

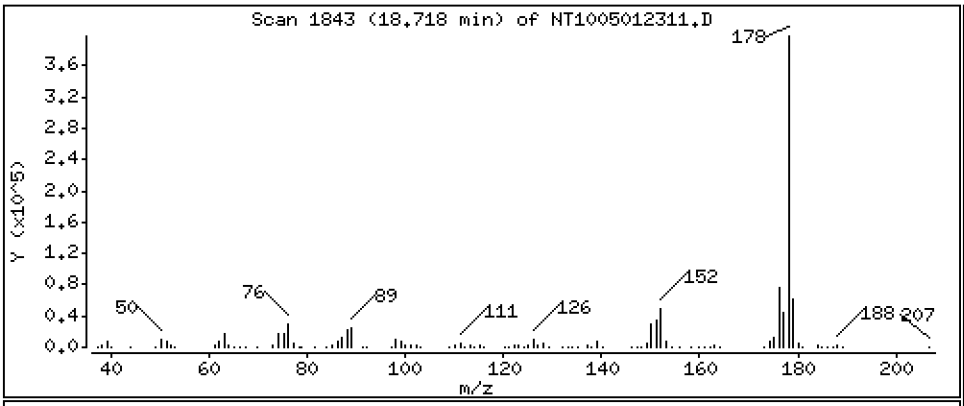
Operator: VTS

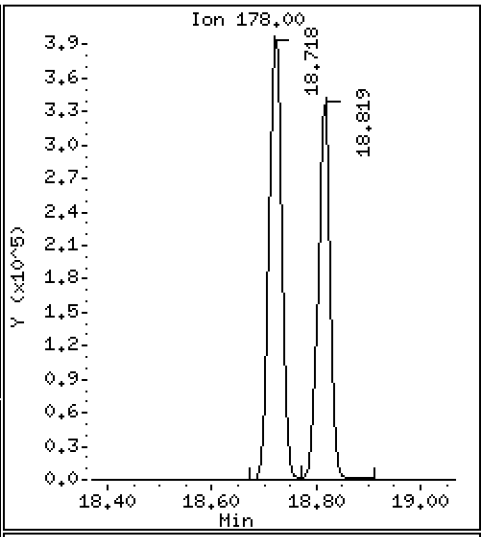
Column phase: ZB-5msi

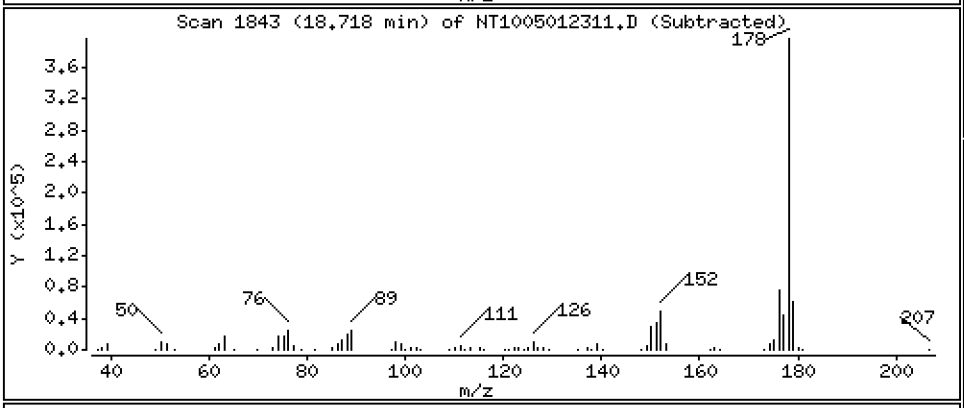
Column diameter: 0.25

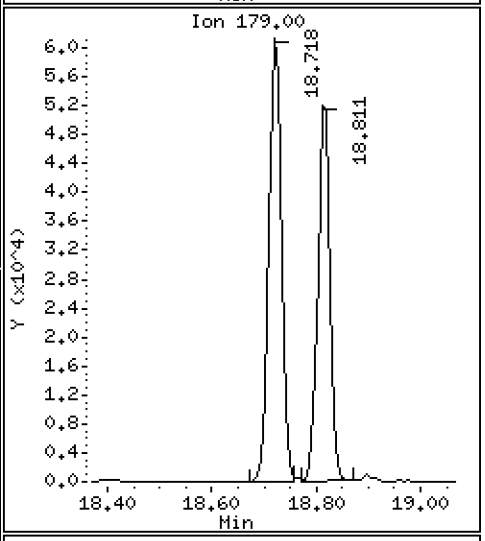
60 Phenanthrene

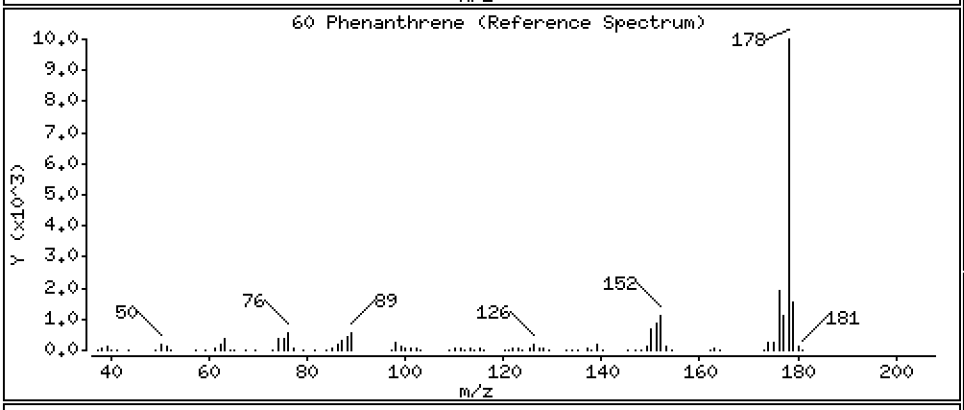
Concentration: 4.586 ug/mL

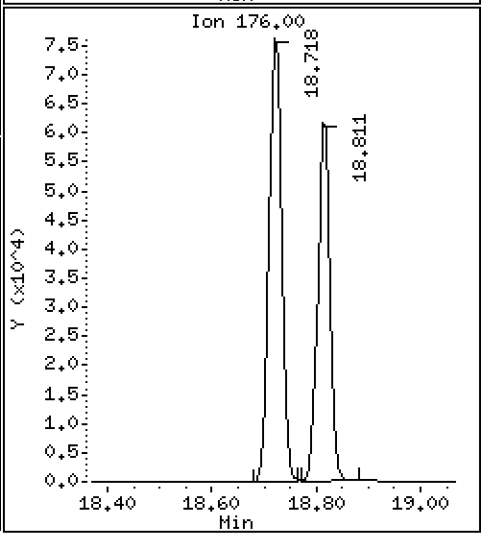


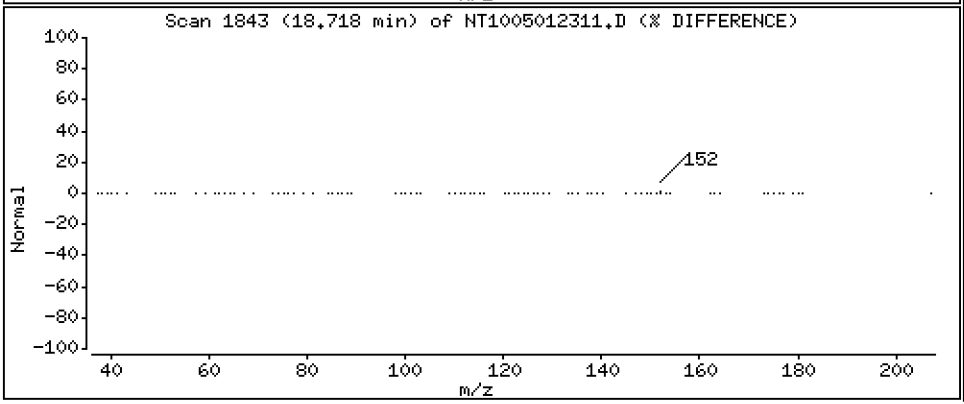












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

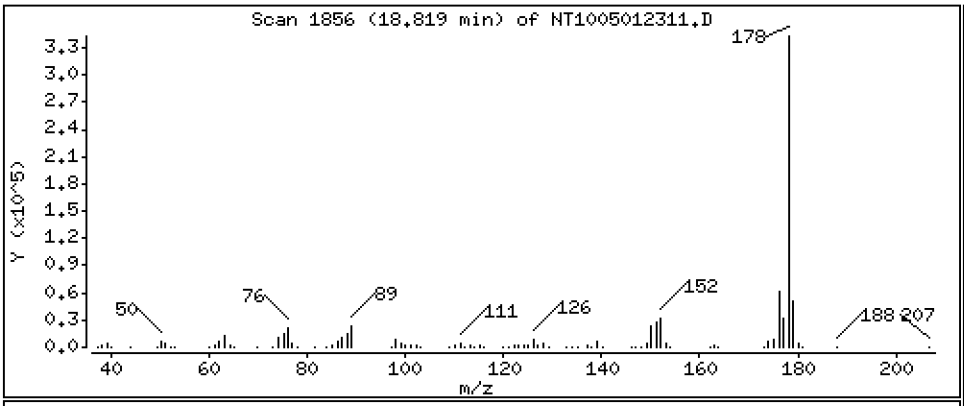
Operator: VTS

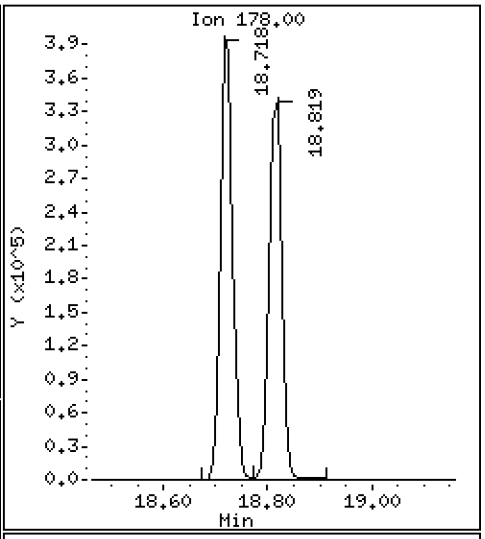
Column phase: ZB-5msi

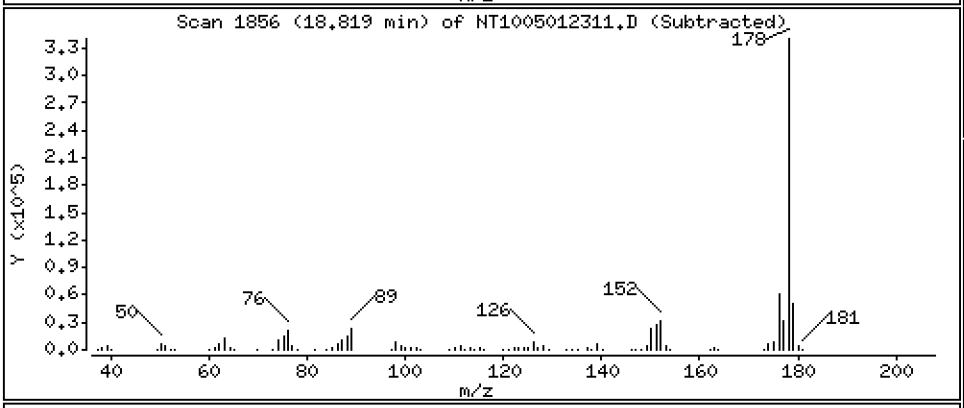
Column diameter: 0.25

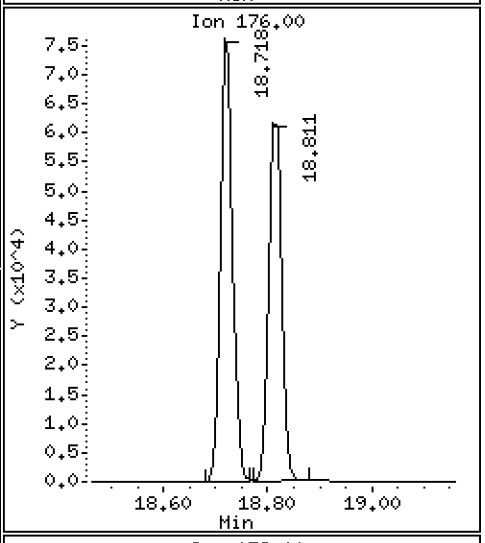
61 Anthracene

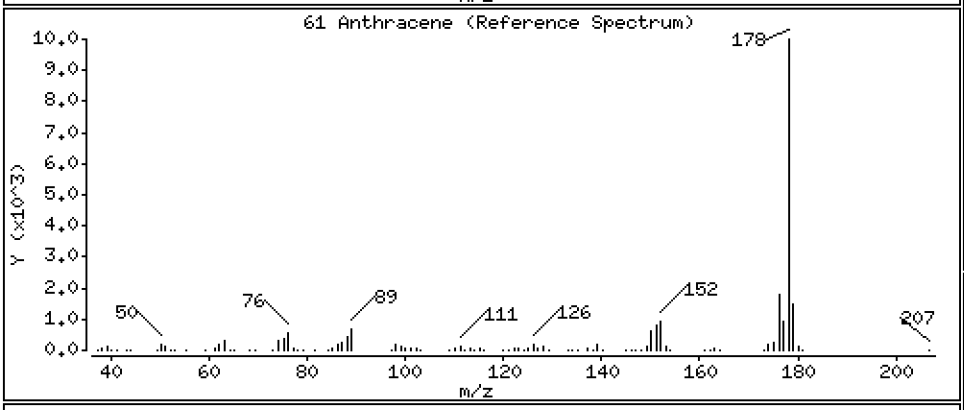
Concentration: 4.169 ug/mL

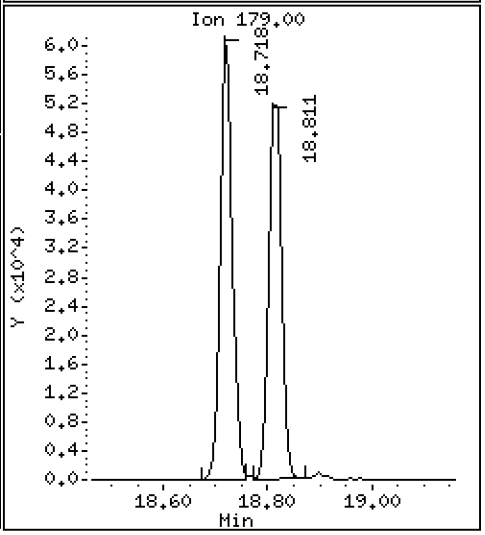


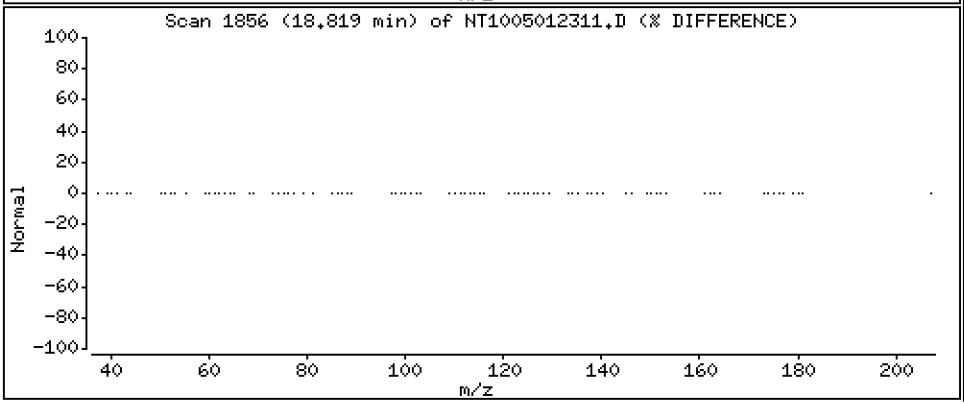












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

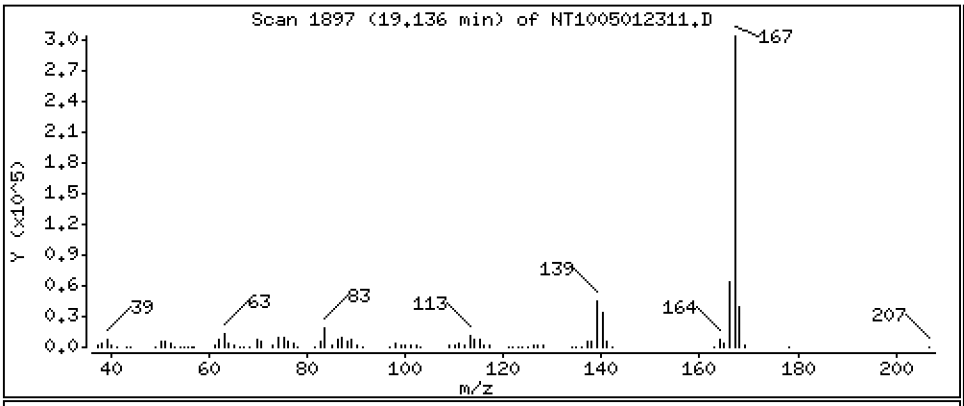
Operator: VTS

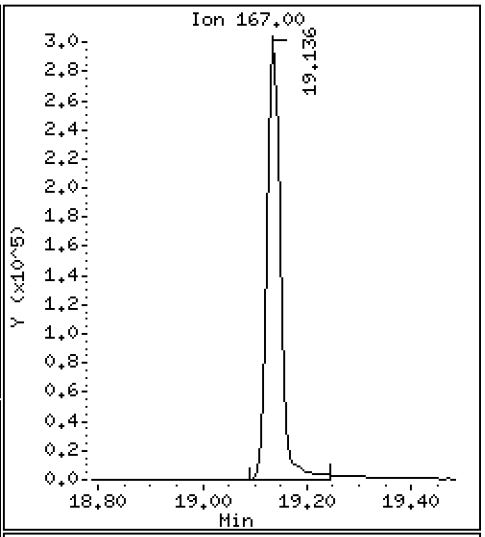
Column phase: ZB-5msi

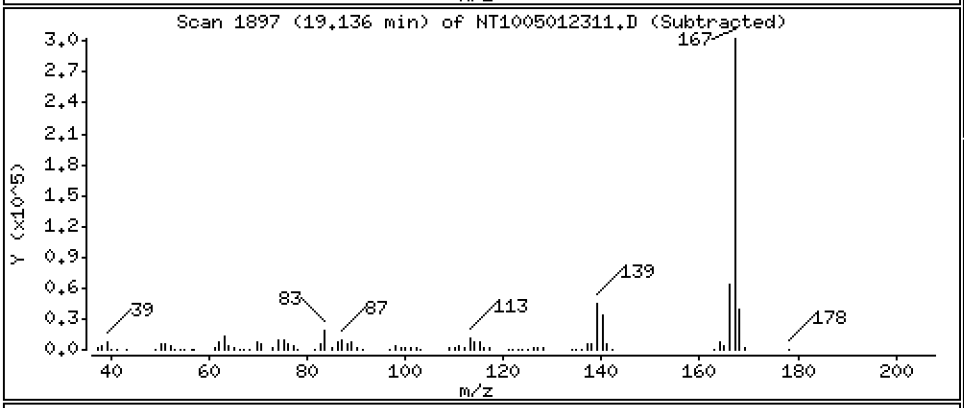
Column diameter: 0.25

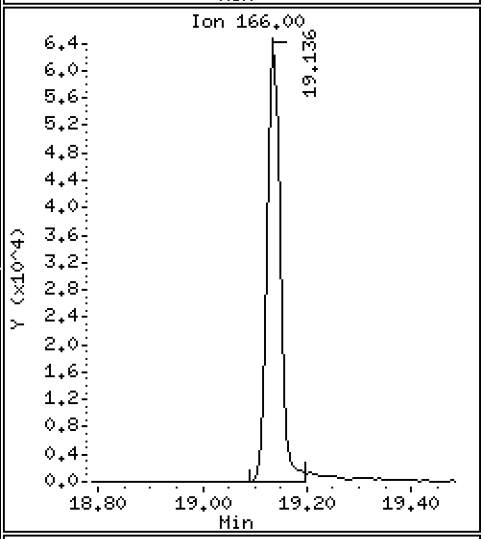
62 Carbazole

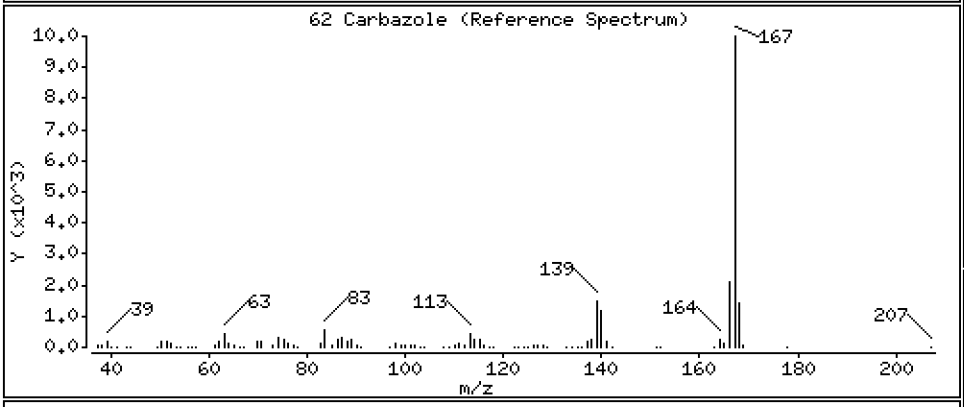
Concentration: 4.503 ug/mL

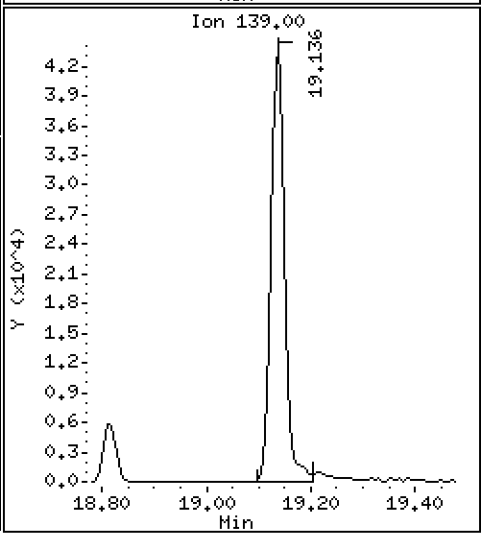


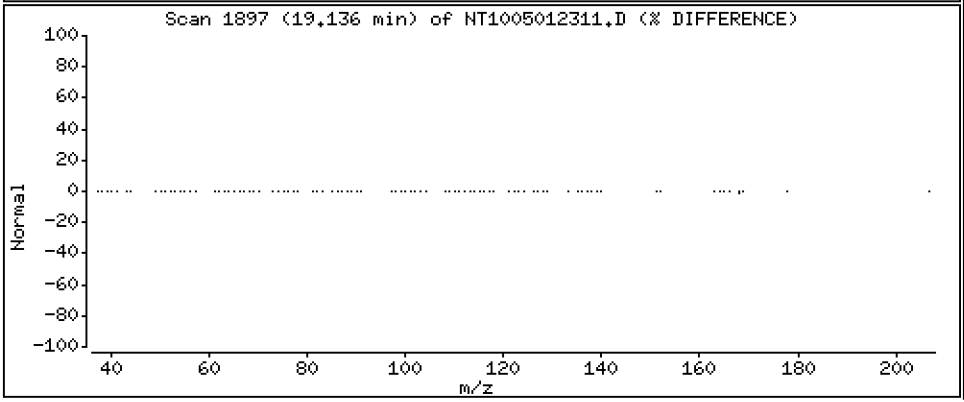












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

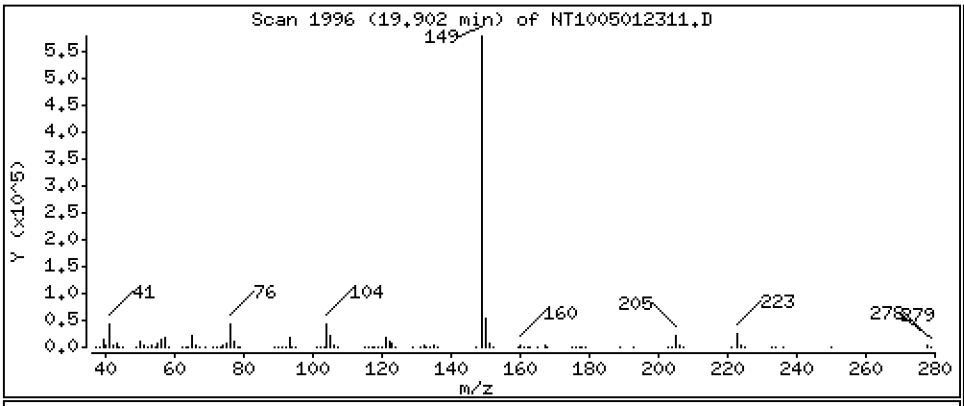
Operator: VTS

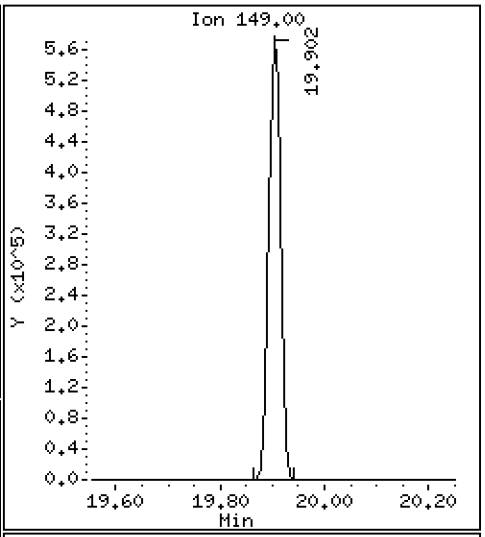
Column phase: ZB-5msi

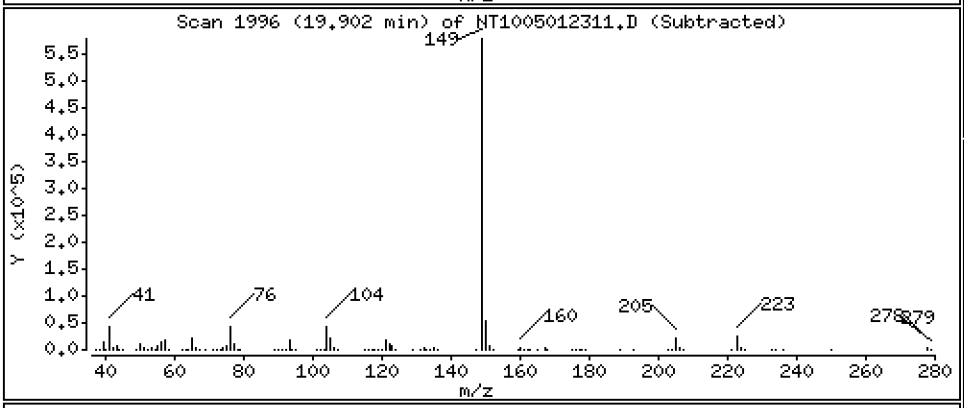
Column diameter: 0.25

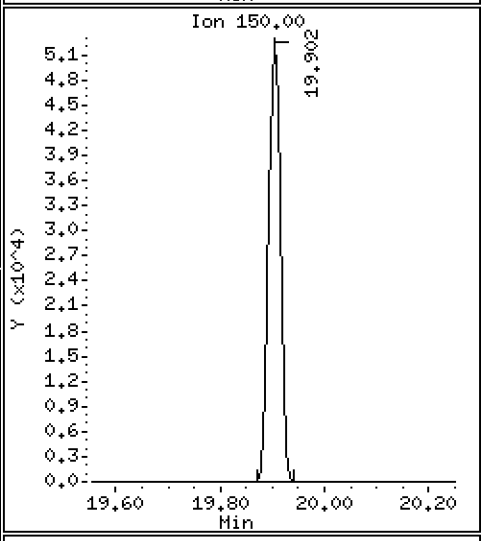
63 Di-n-butylphthalate

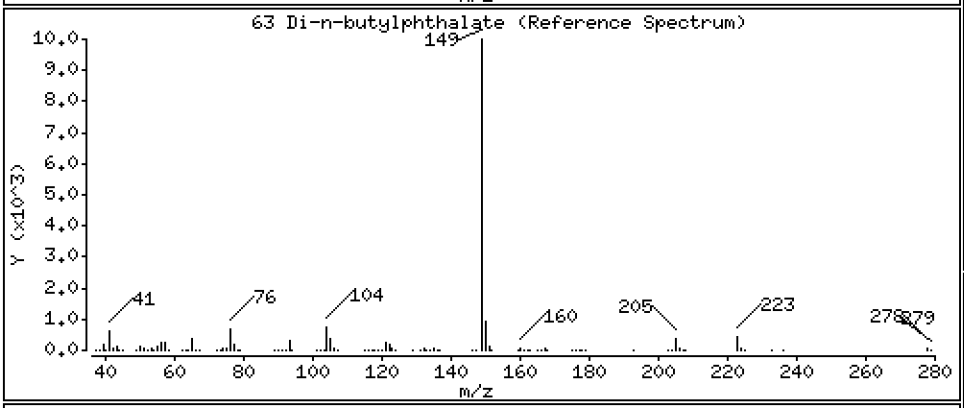
Concentration: 4.895 ug/mL

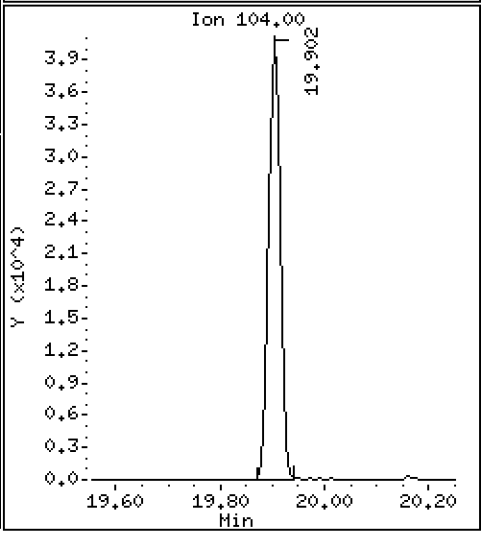


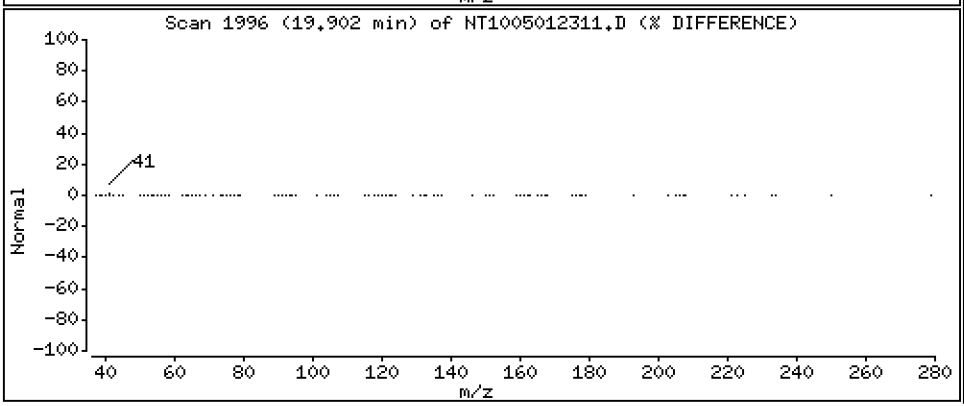












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

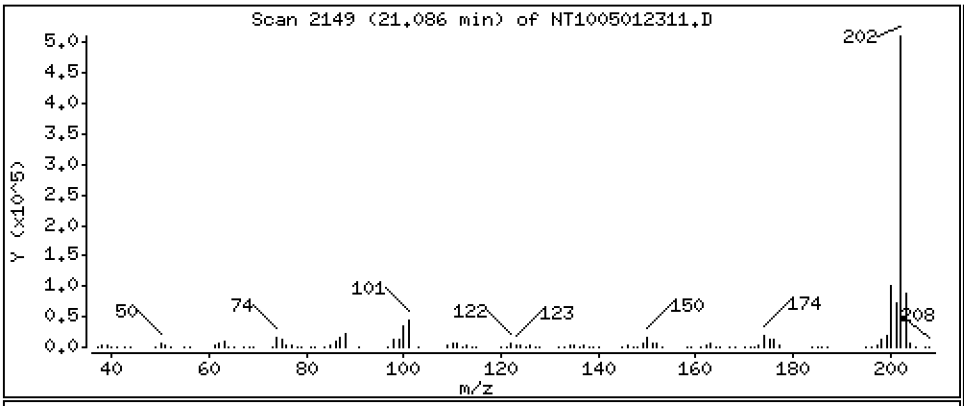
Operator: VTS

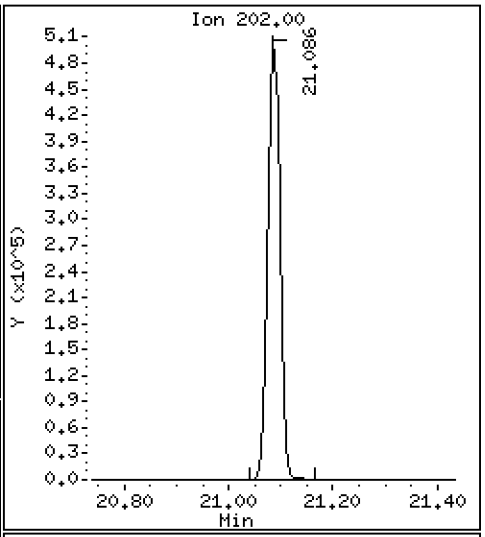
Column phase: ZB-5msi

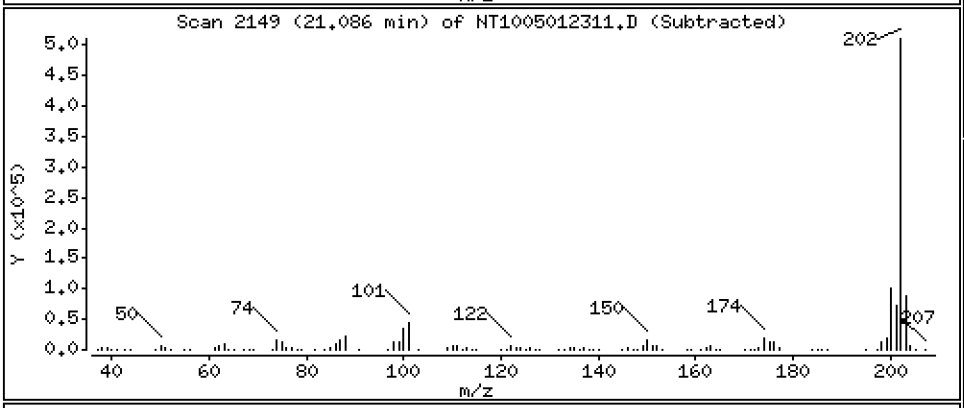
Column diameter: 0.25

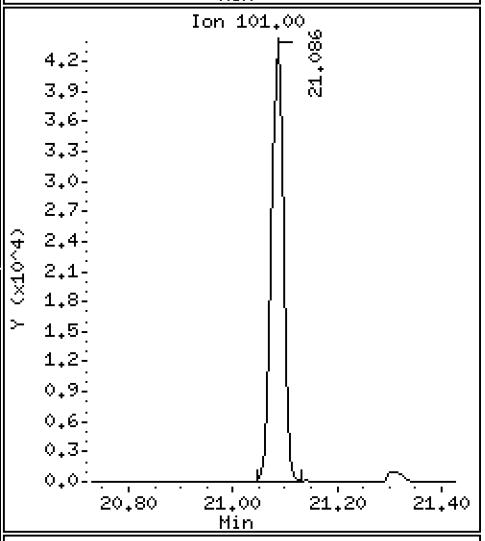
64 Fluoranthene

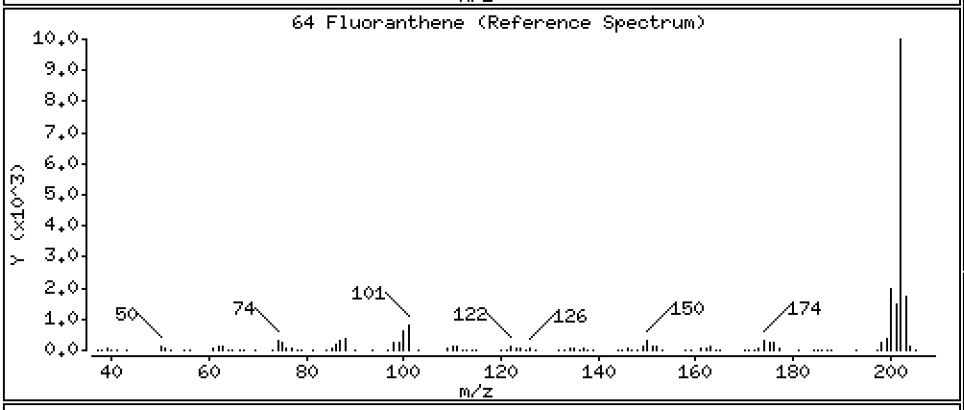
Concentration: 4.738 ug/mL

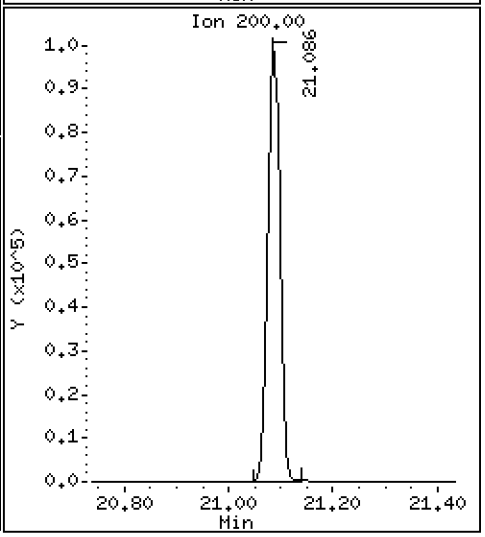


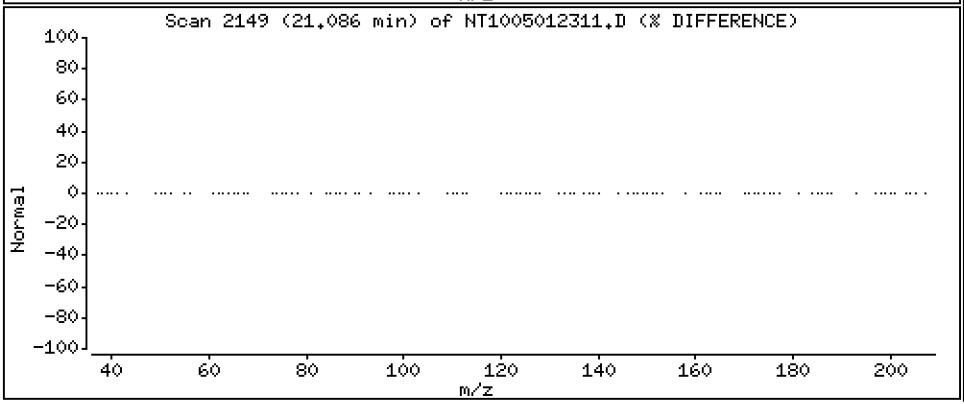












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

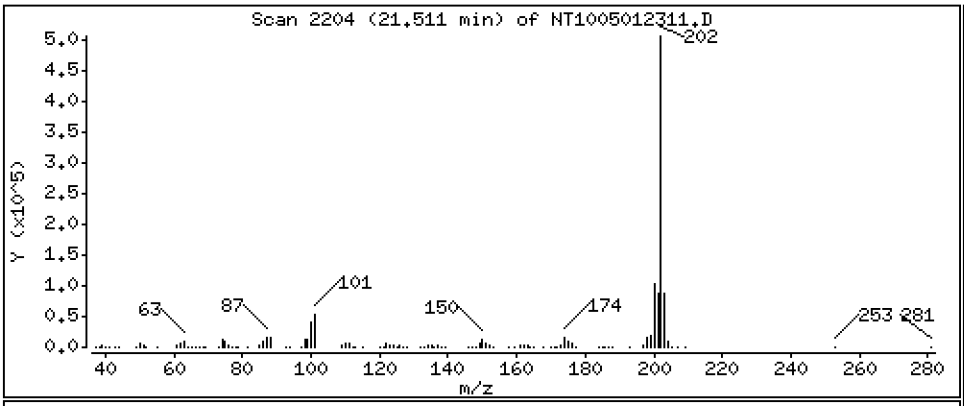
Operator: VTS

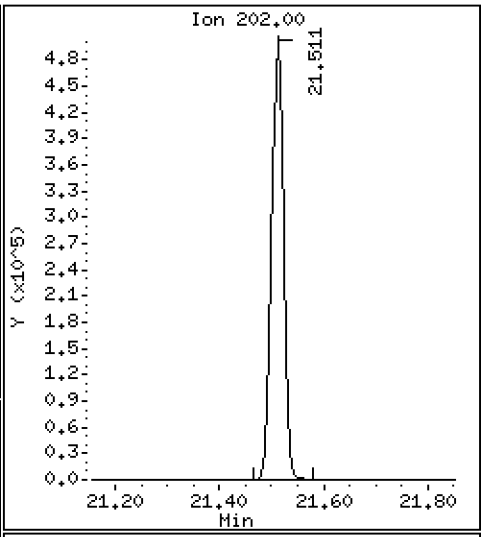
Column phase: ZB-5msi

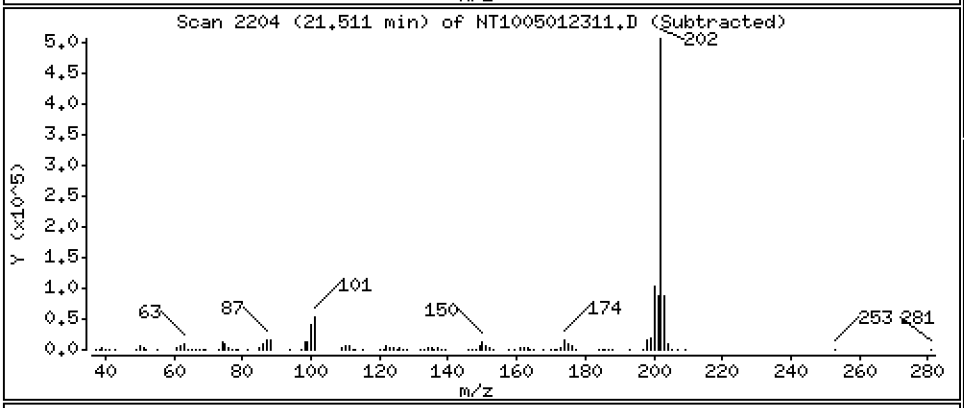
Column diameter: 0.25

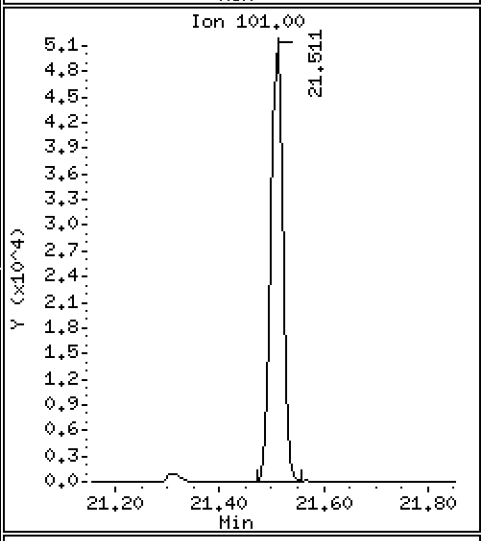
65 Pyrene

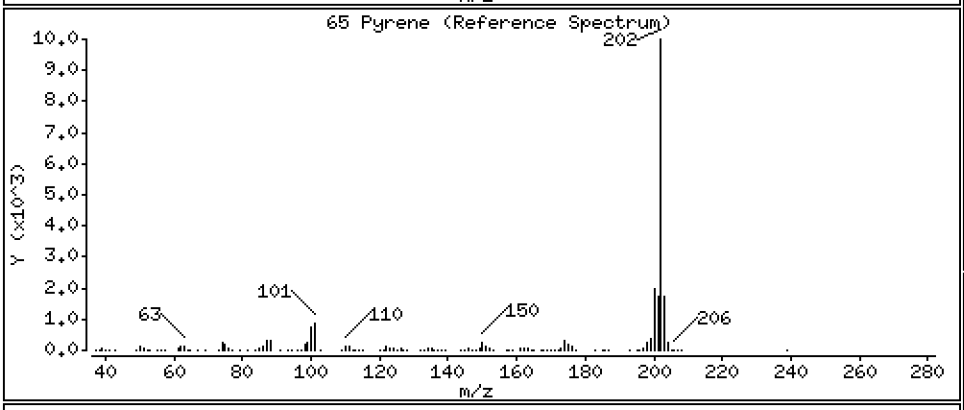
Concentration: 4.635 ug/mL

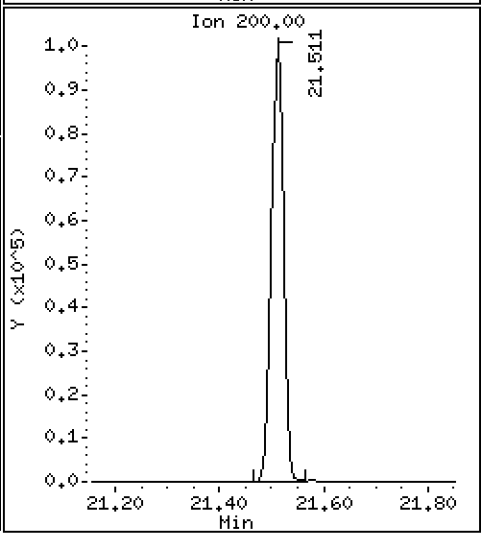


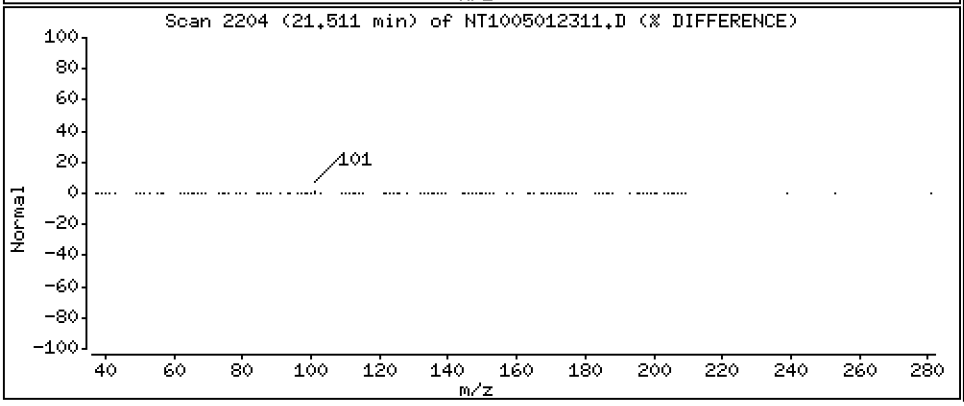












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

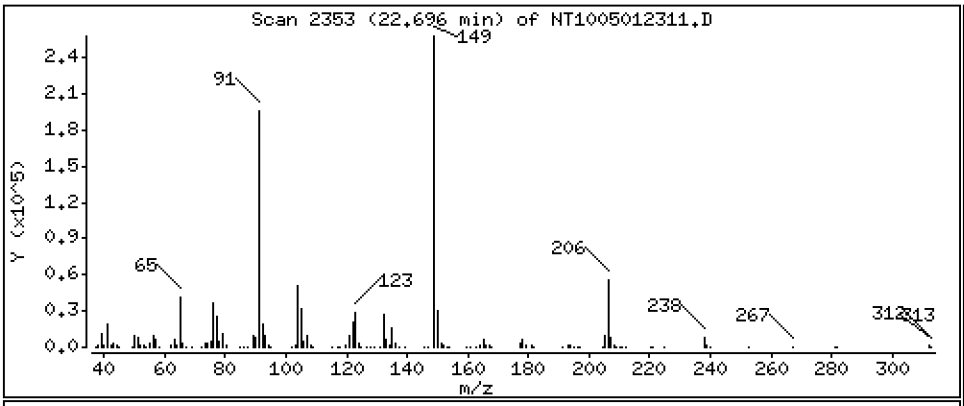
Operator: VTS

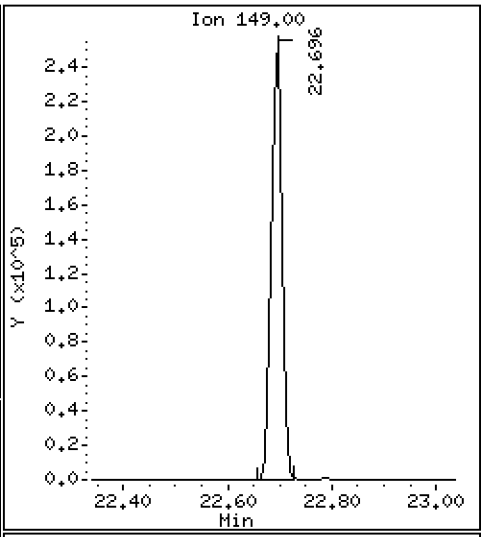
Column phase: ZB-5msi

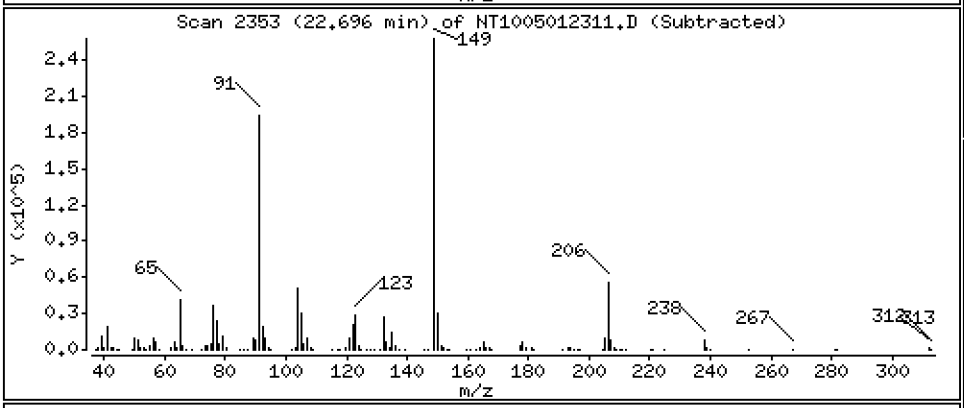
Column diameter: 0.25

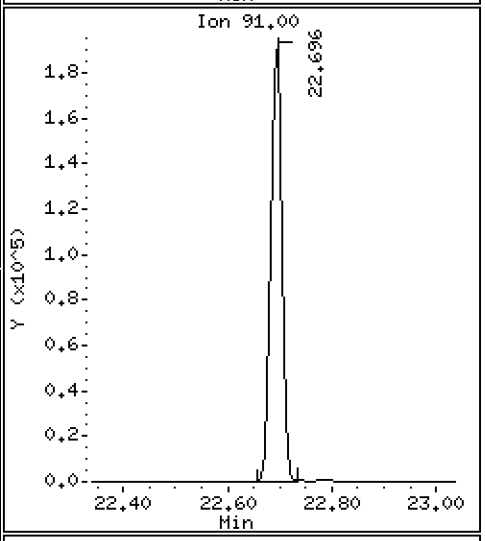
67 Butylbenzylphthalate

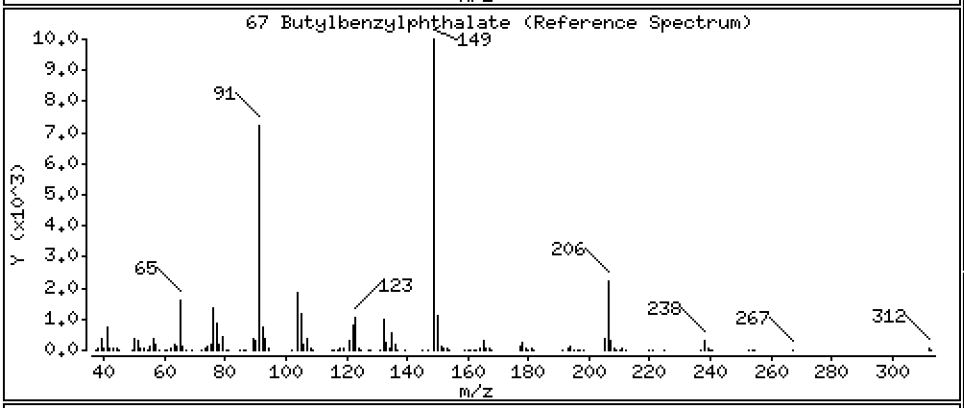
Concentration: 4.778 ug/mL

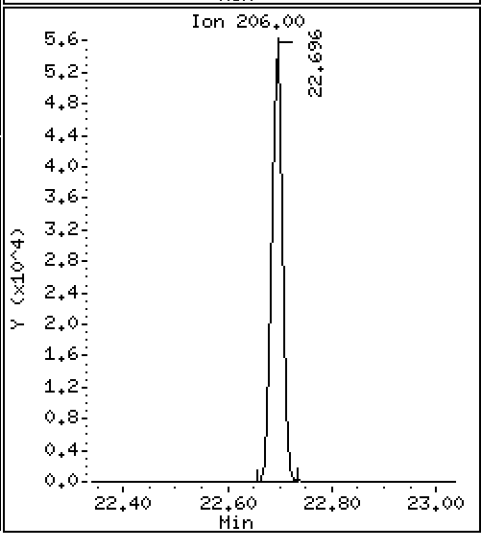


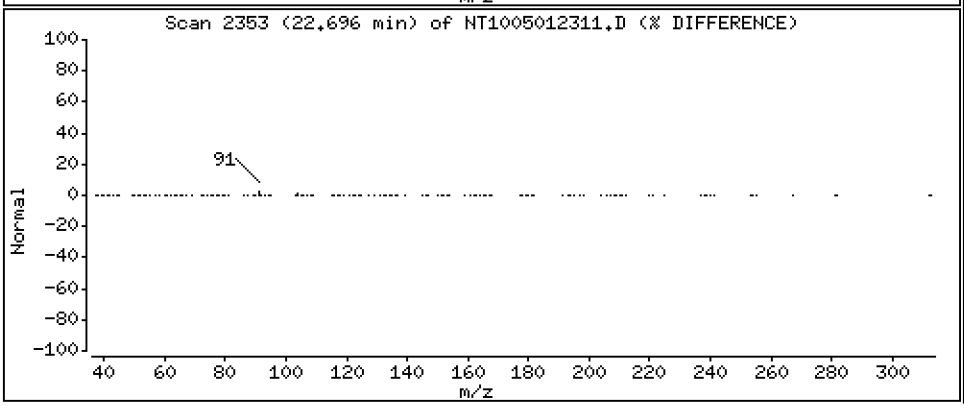












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

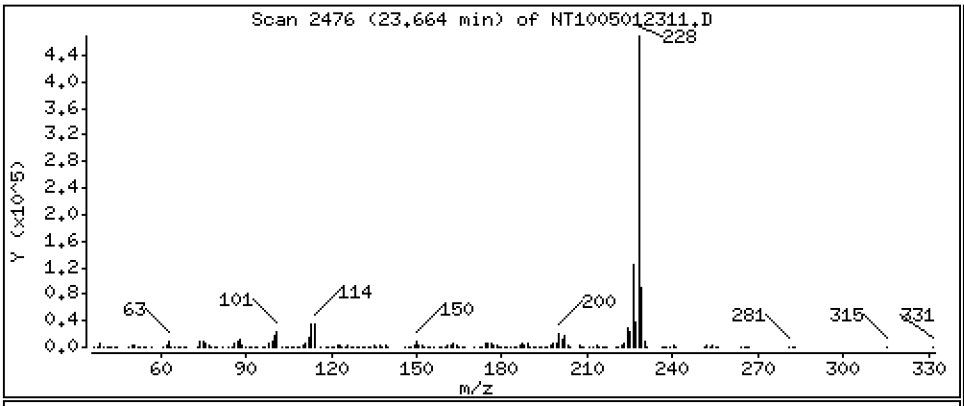
Operator: VTS

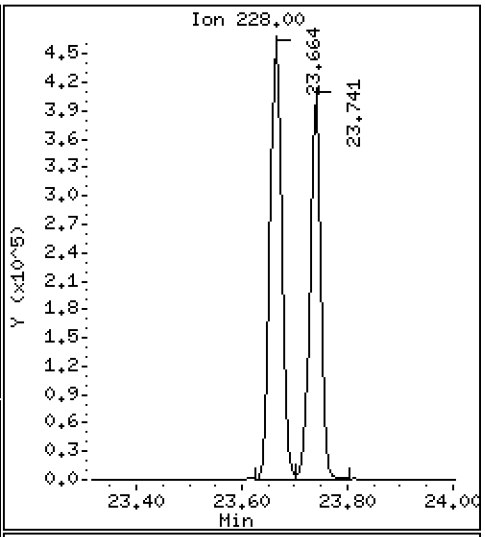
Column phase: ZB-5msi

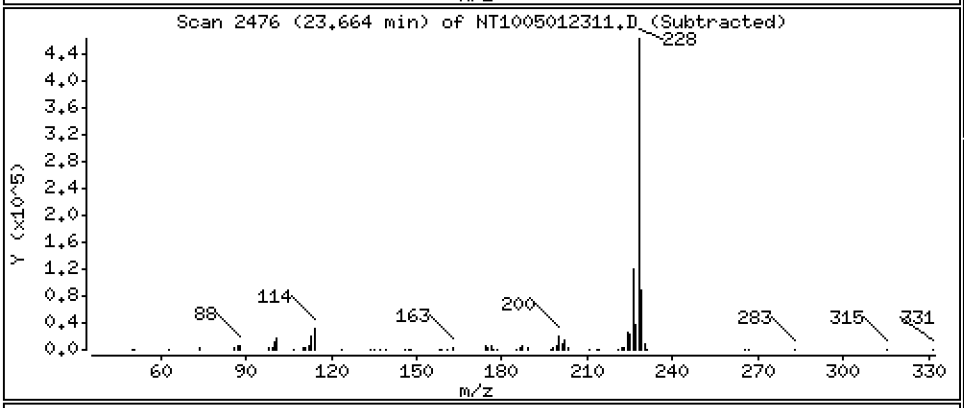
Column diameter: 0.25

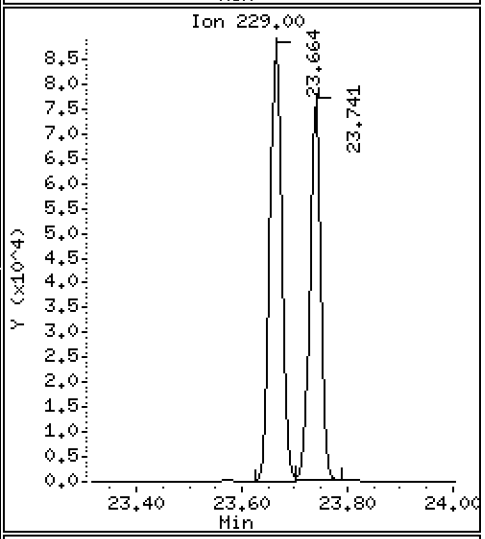
68 Benzo(a)anthracene

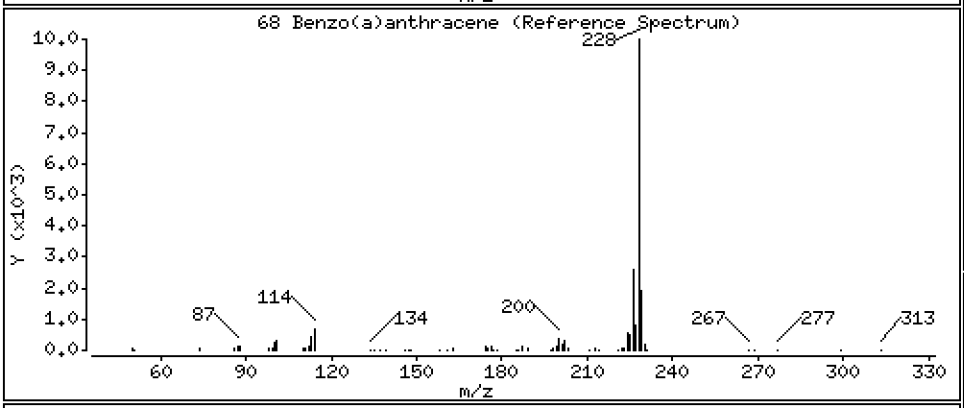
Concentration: 4.717 ug/mL

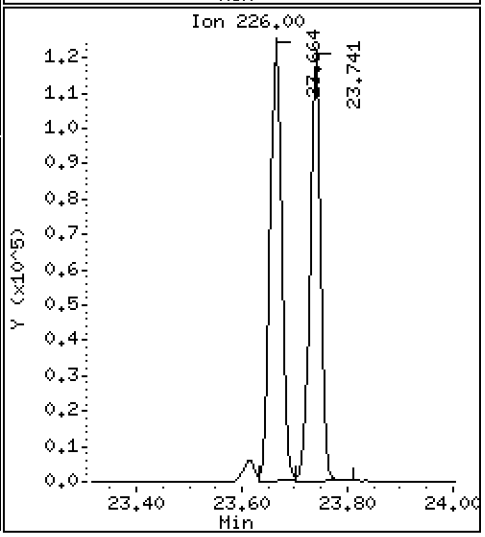


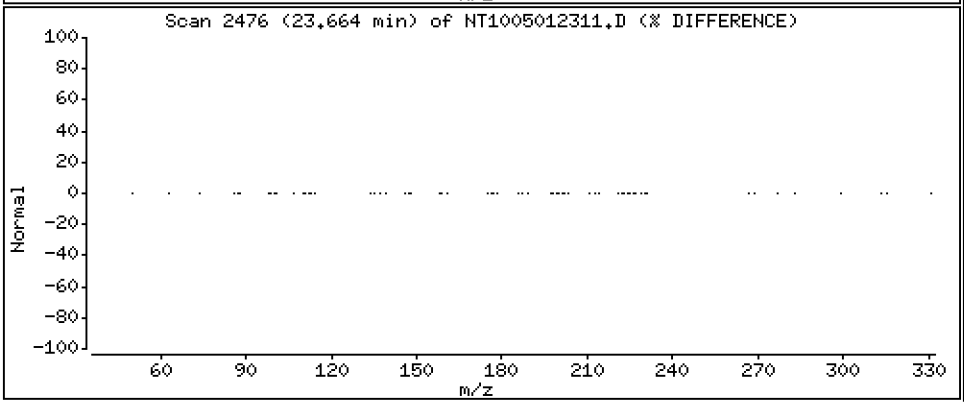












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

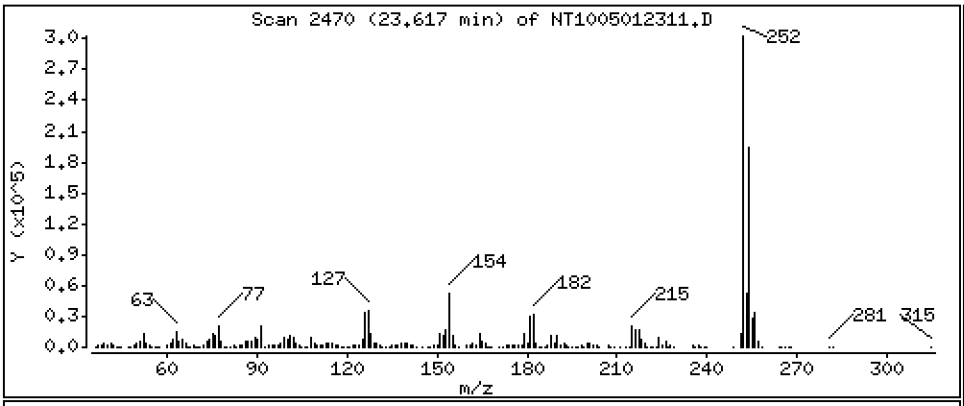
Operator: VTS

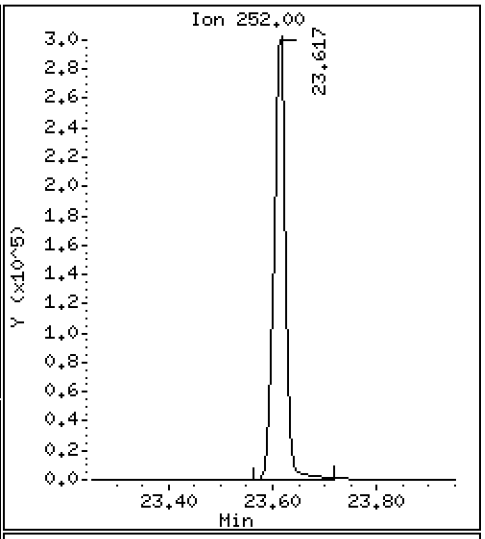
Column phase: ZB-5msi

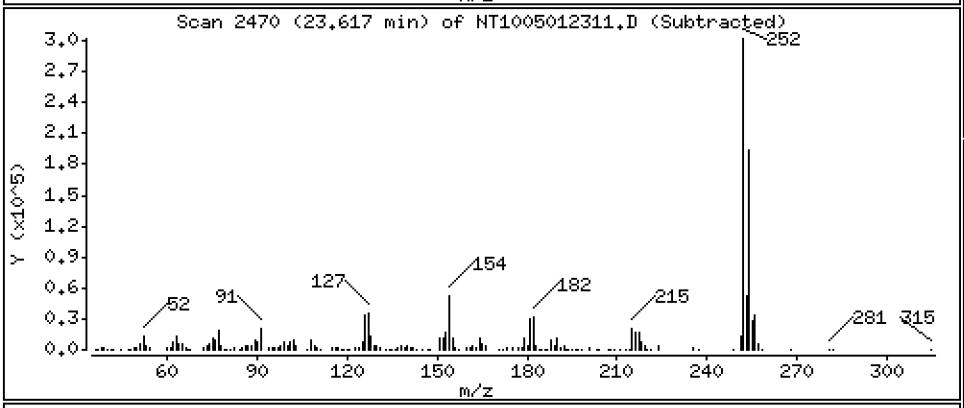
Column diameter: 0.25

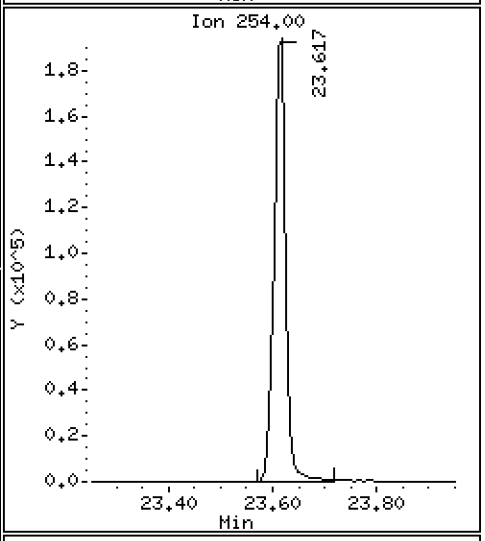
70 3,3'-Dichlorobenzidine

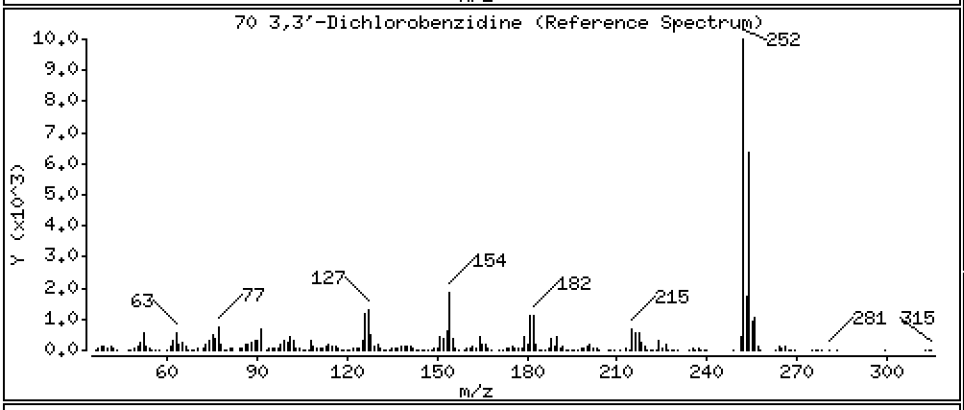
Concentration: 10.21 ug/mL

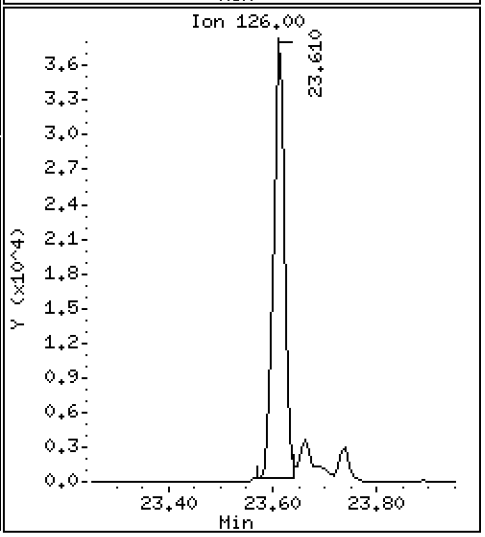


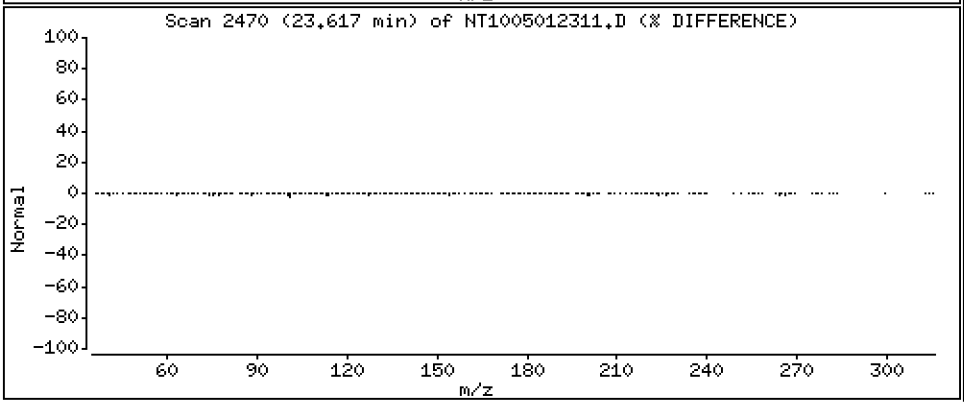












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

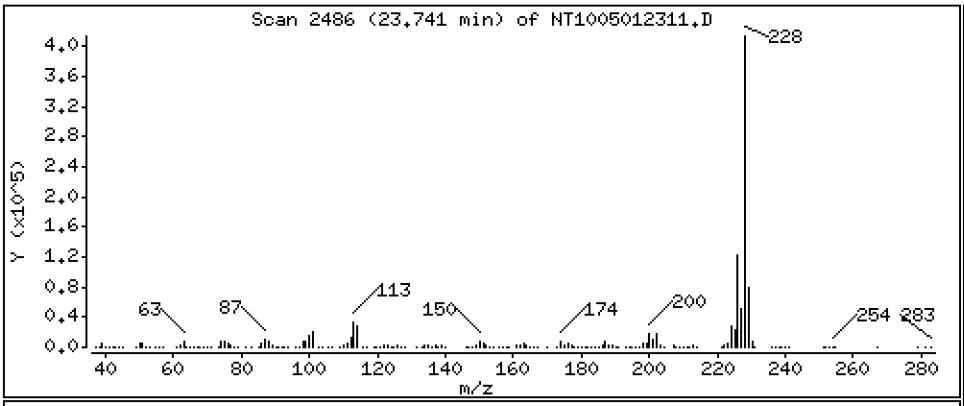
Operator: VTS

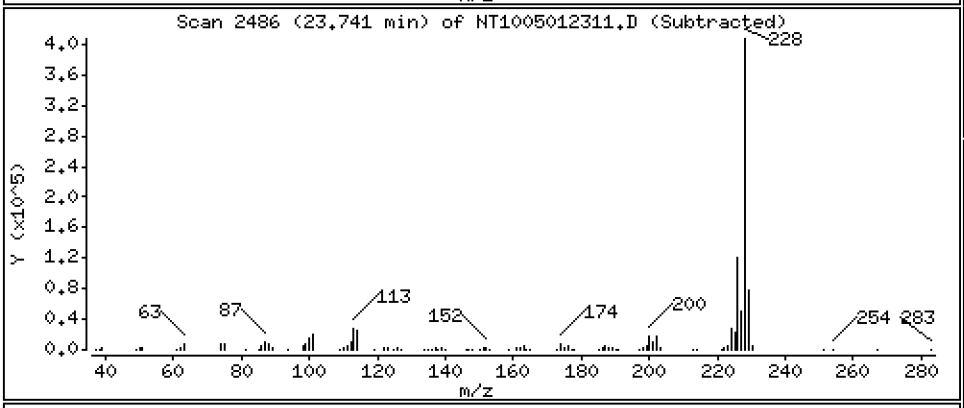
Column phase: ZB-5msi

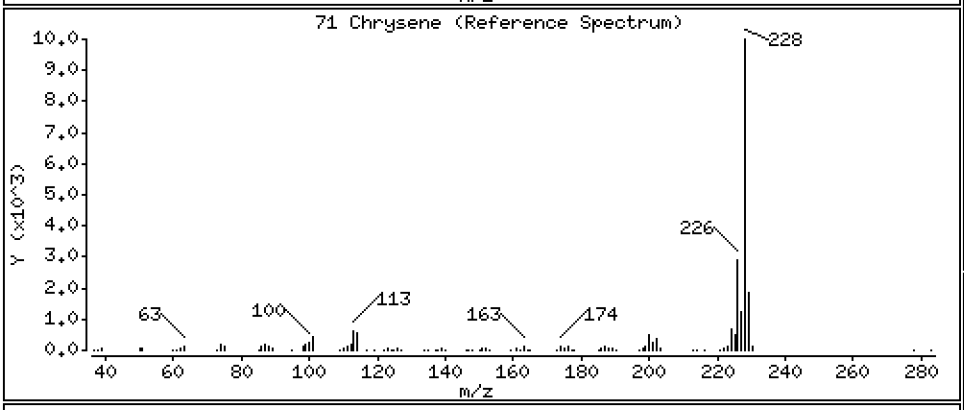
Column diameter: 0.25

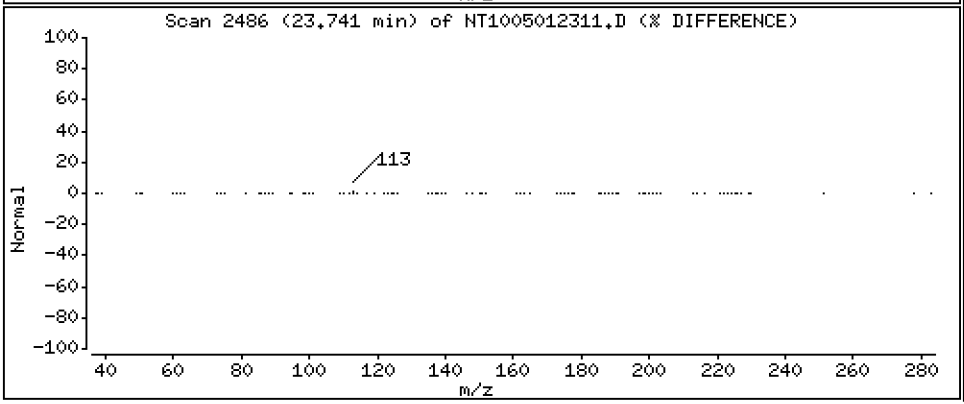
71 Chrysene

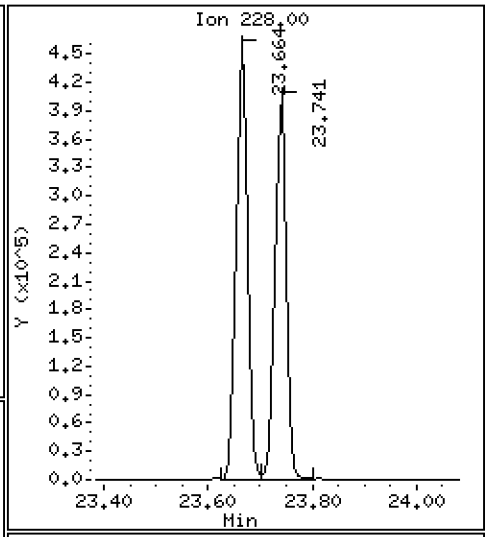
Concentration: 4.540 ug/mL

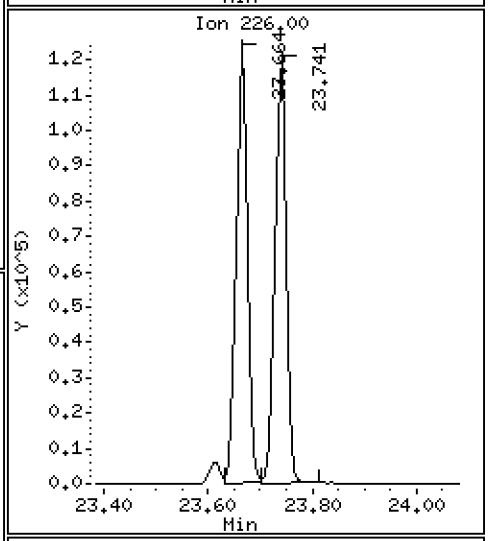


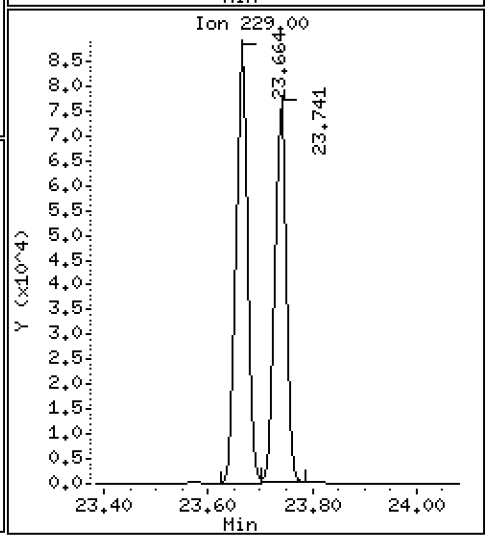












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

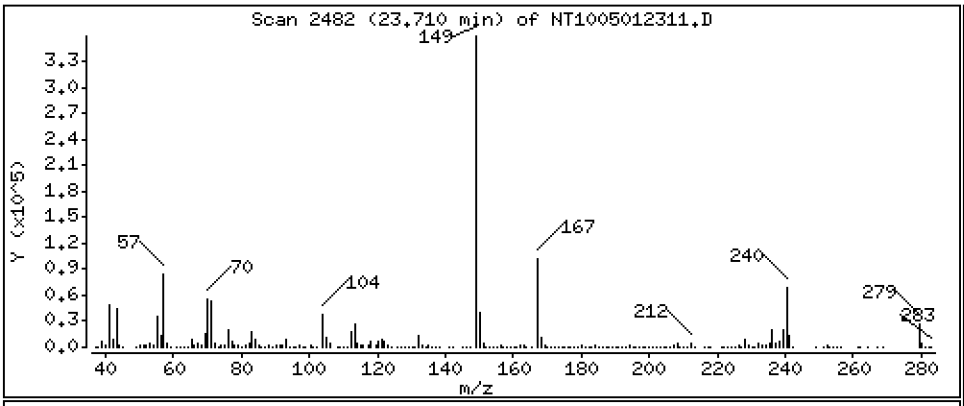
Operator: VTS

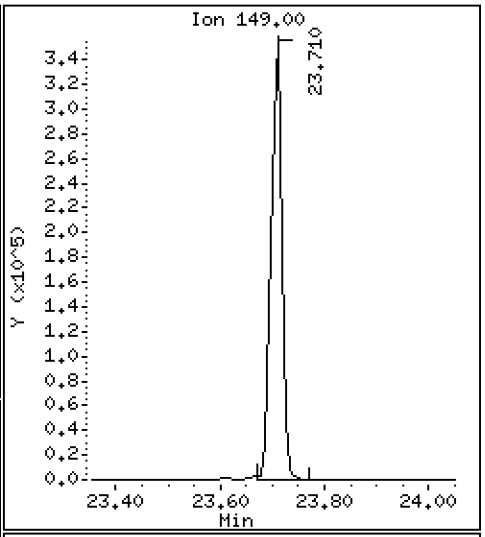
Column phase: ZB-5msi

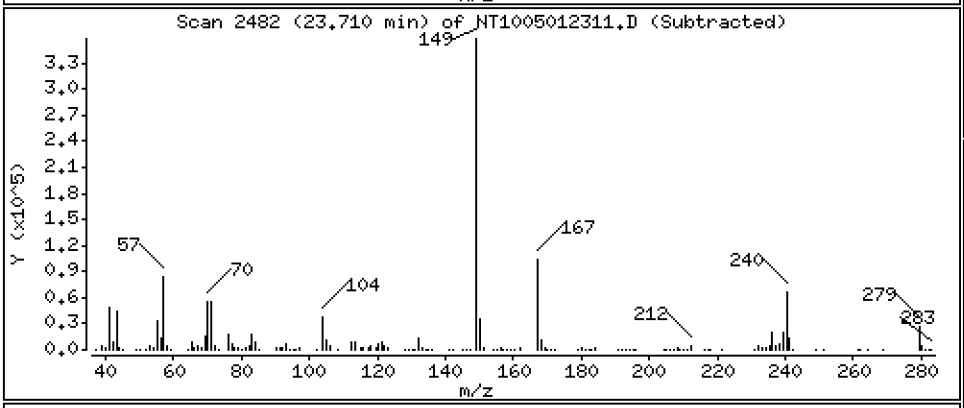
Column diameter: 0.25

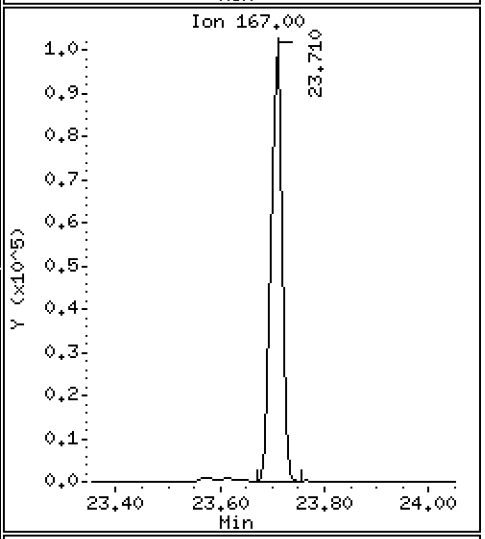
72 bis(2-Ethylhexyl)phthalate

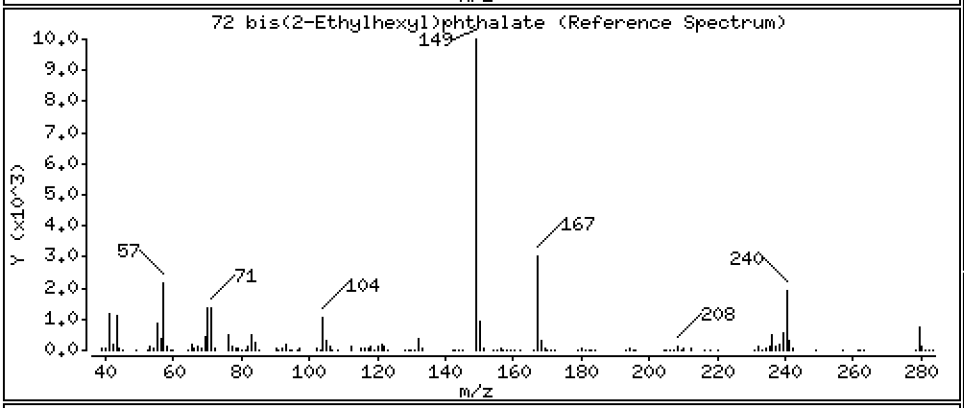
Concentration: 5.406 ug/mL

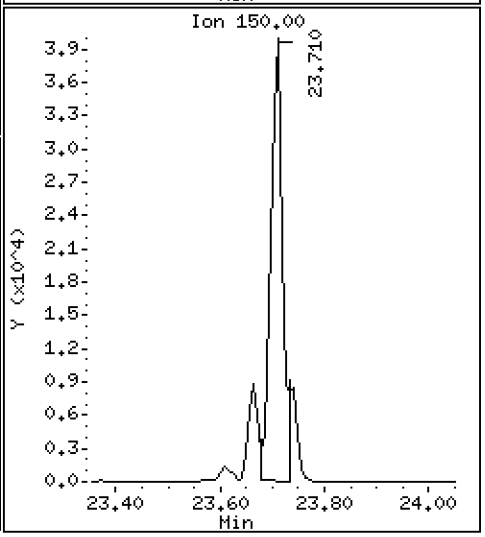


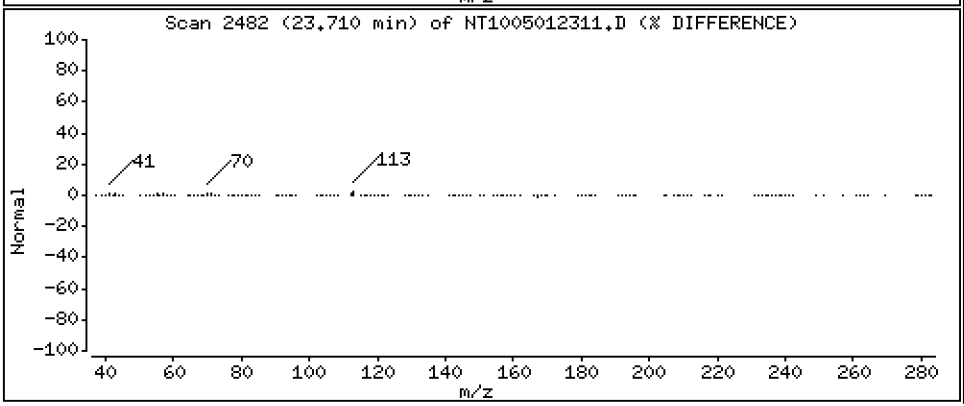












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

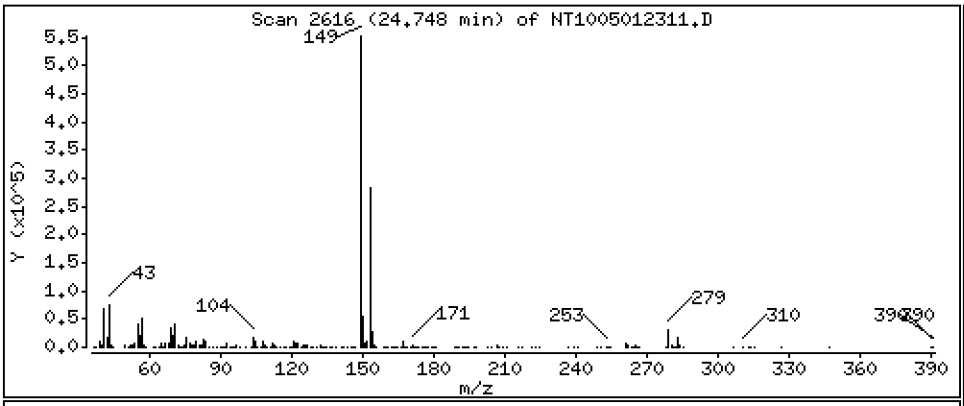
Operator: VTS

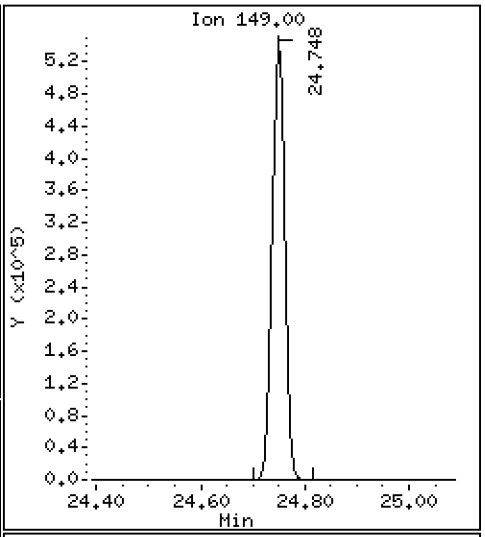
Column phase: ZB-5msi

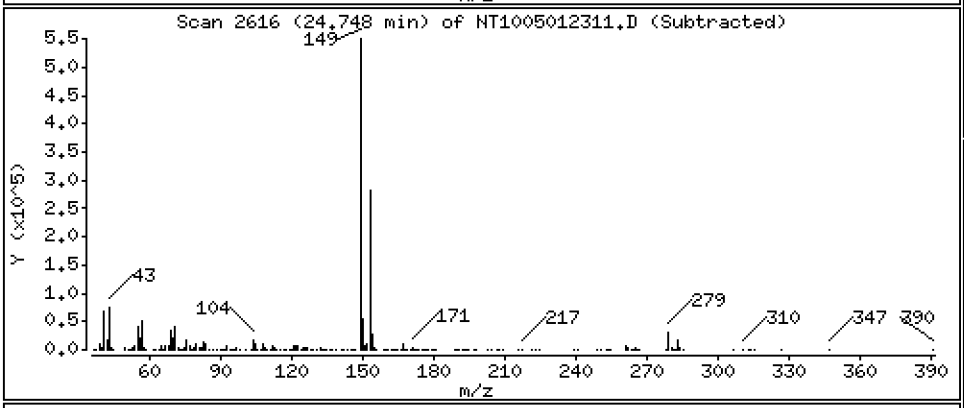
Column diameter: 0.25

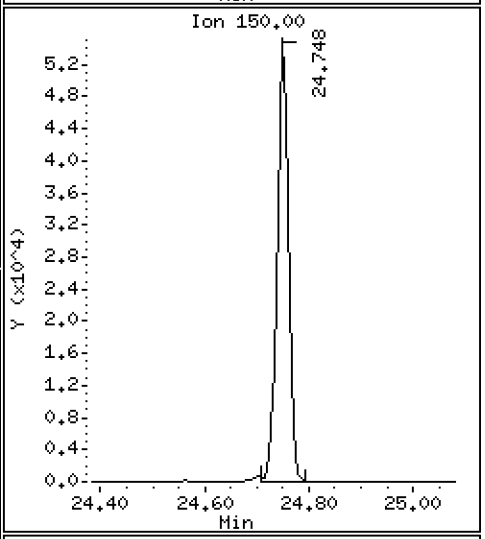
73 Di-n-octylphthalate

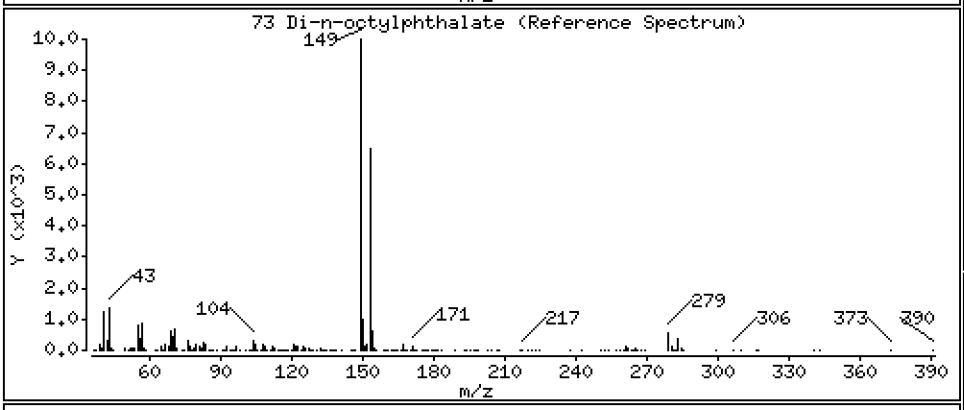
Concentration: 5.161 ug/mL

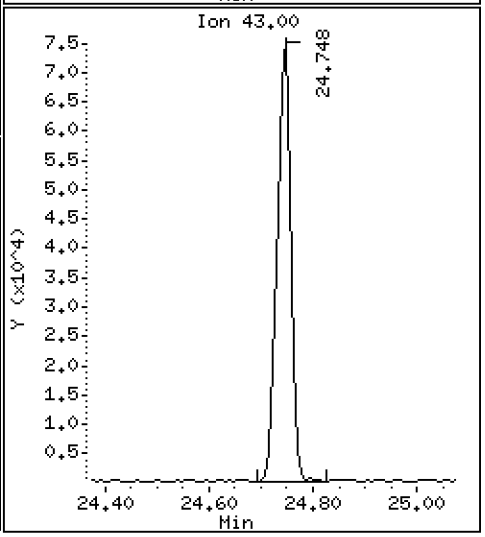


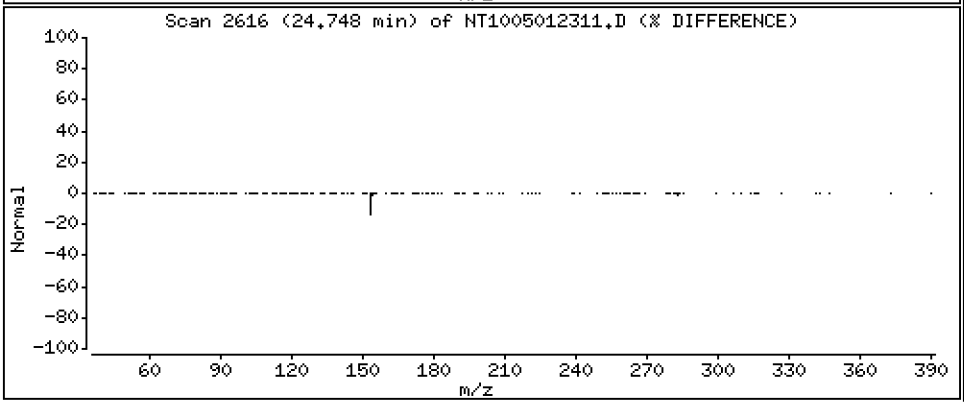












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

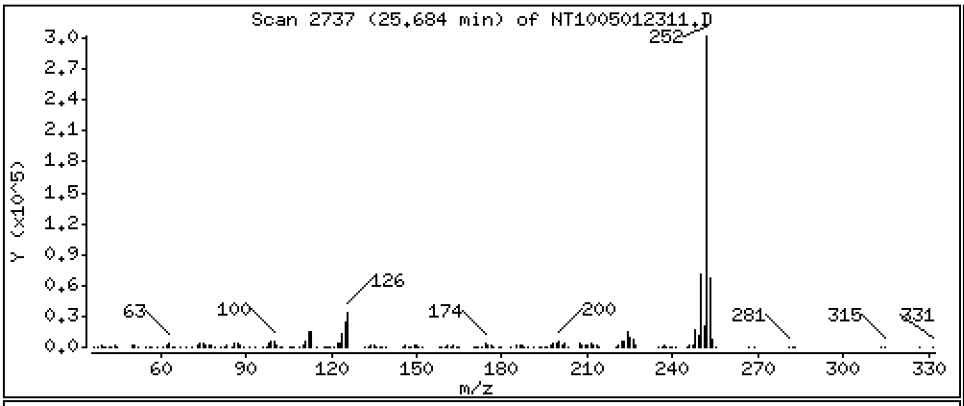
Operator: VTS

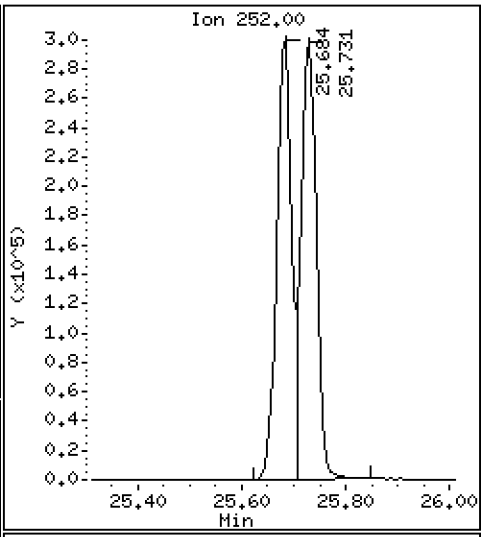
Column phase: ZB-5msi

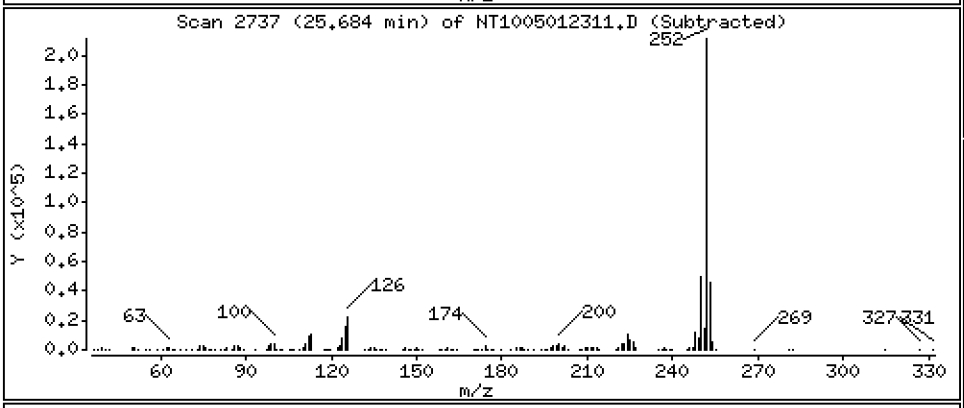
Column diameter: 0.25

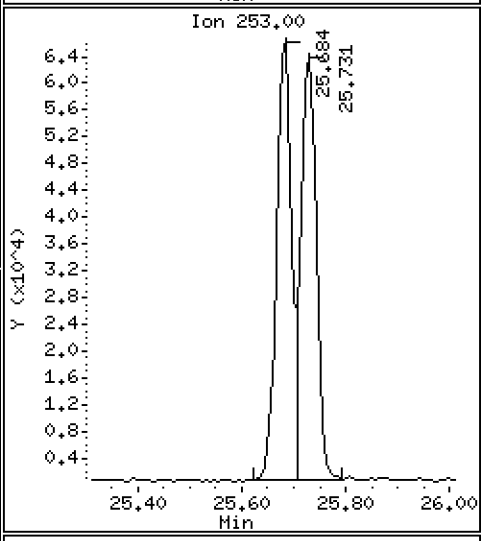
74 Benzo(b)fluoranthene

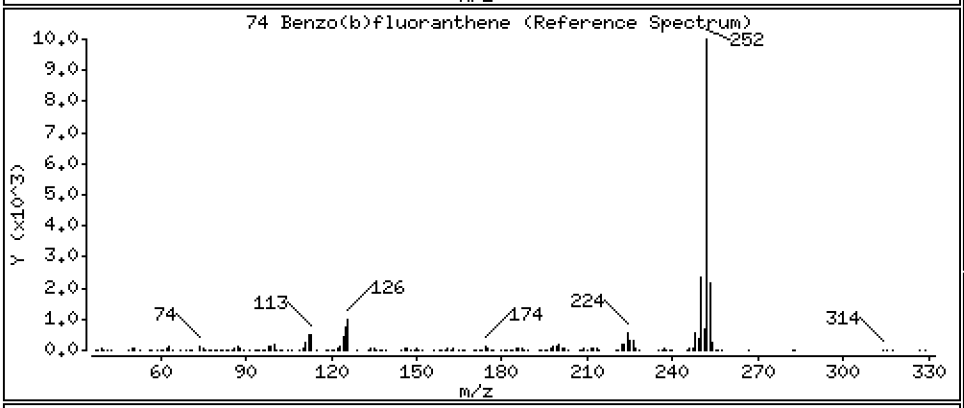
Concentration: 4.785 ug/mL

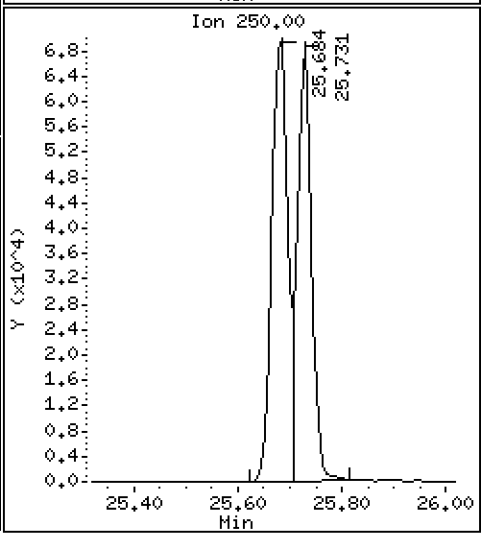


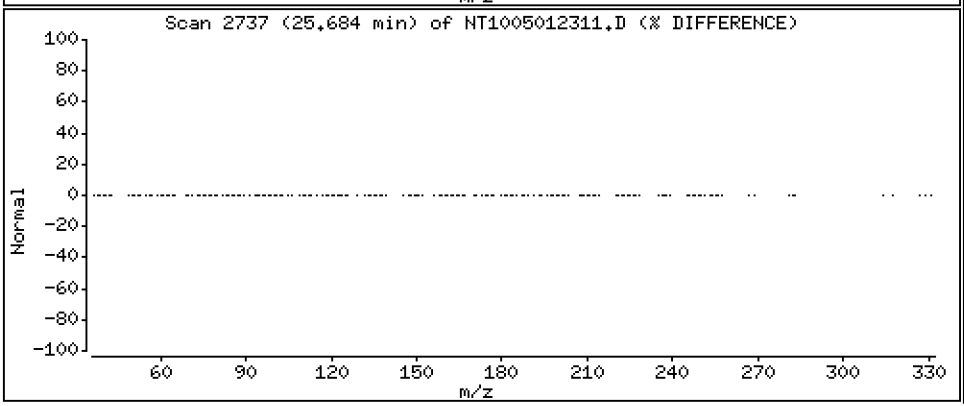












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

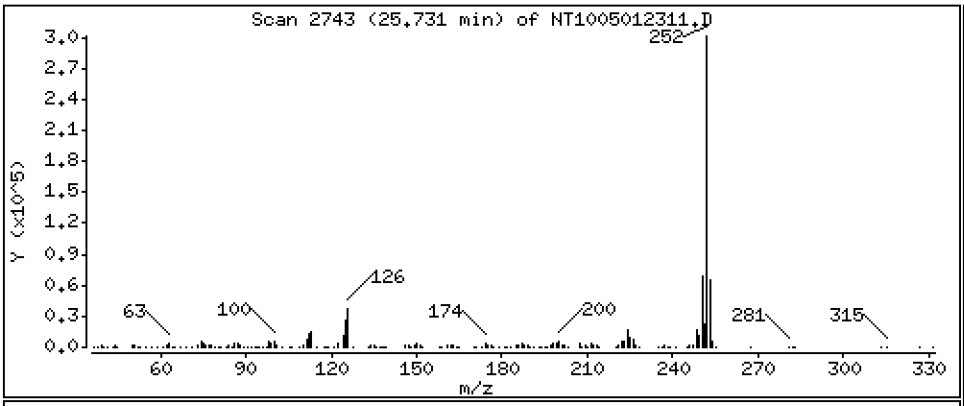
Operator: VTS

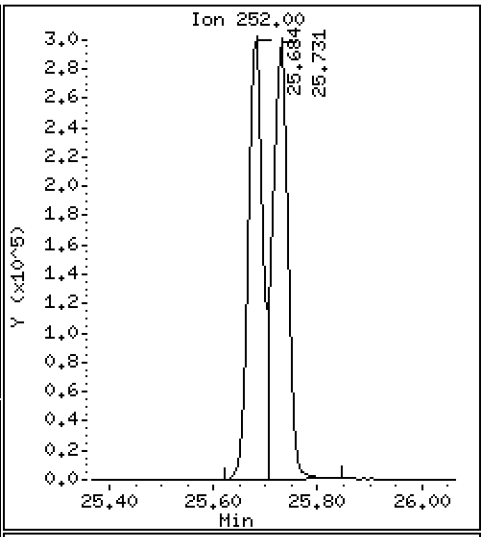
Column phase: ZB-5msi

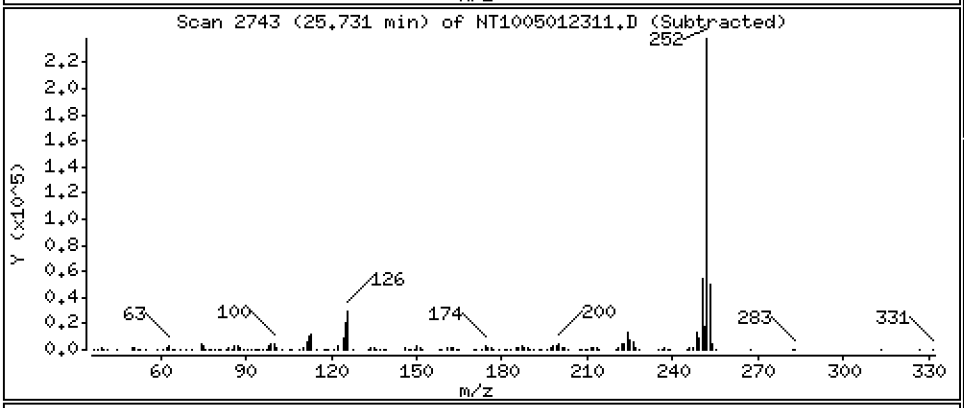
Column diameter: 0.25

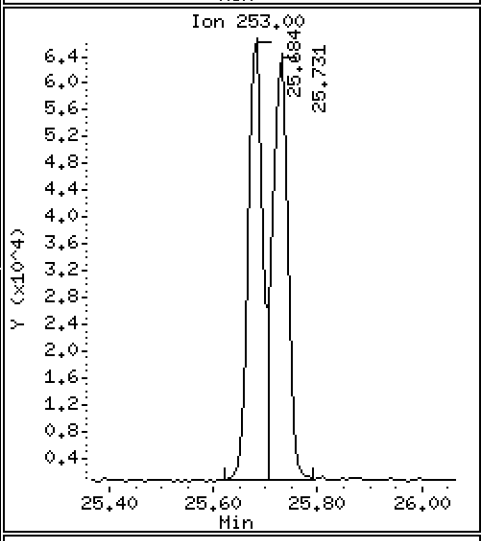
75 Benzo(k)fluoranthene

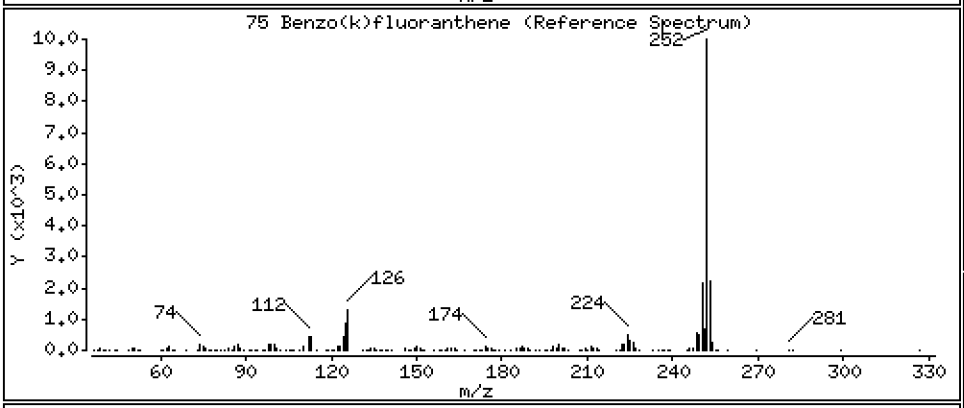
Concentration: 4.457 ug/mL

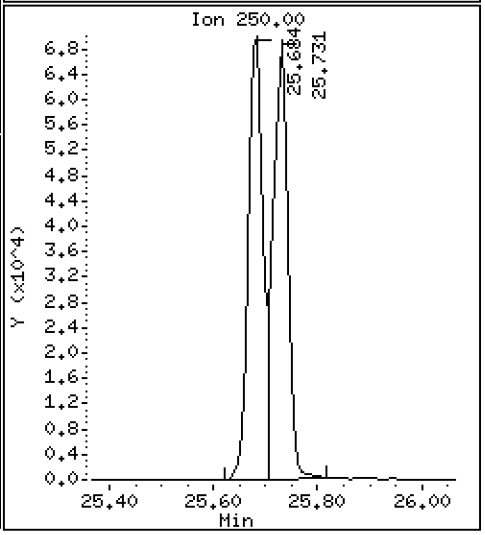


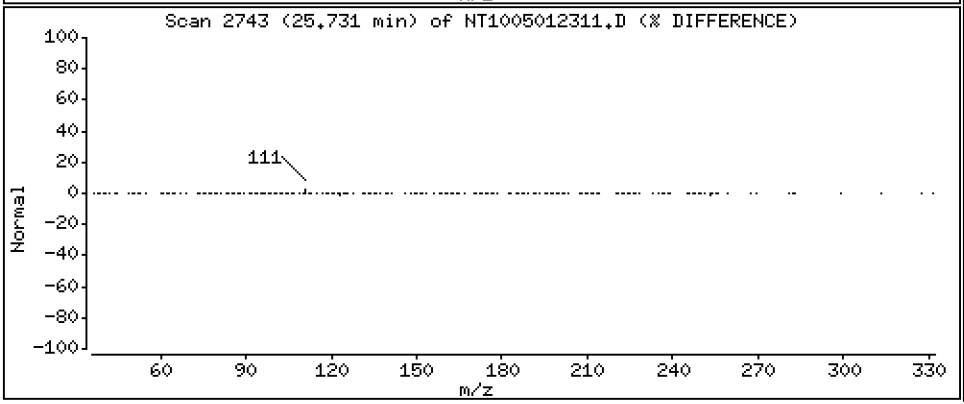












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

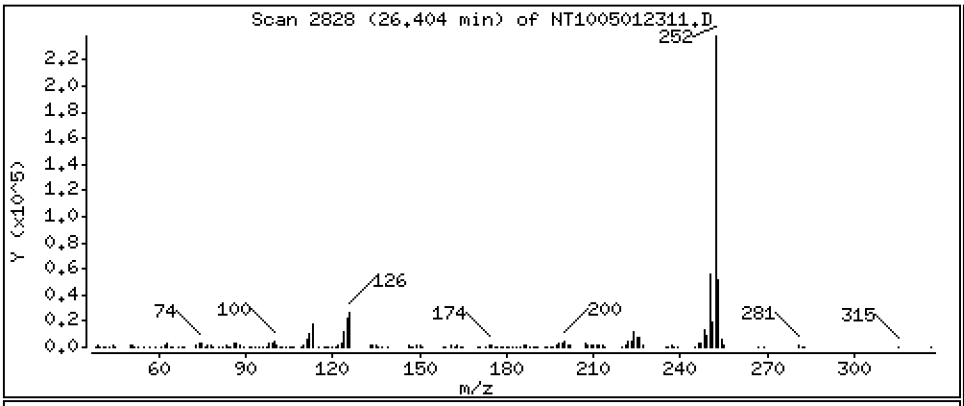
Operator: VTS

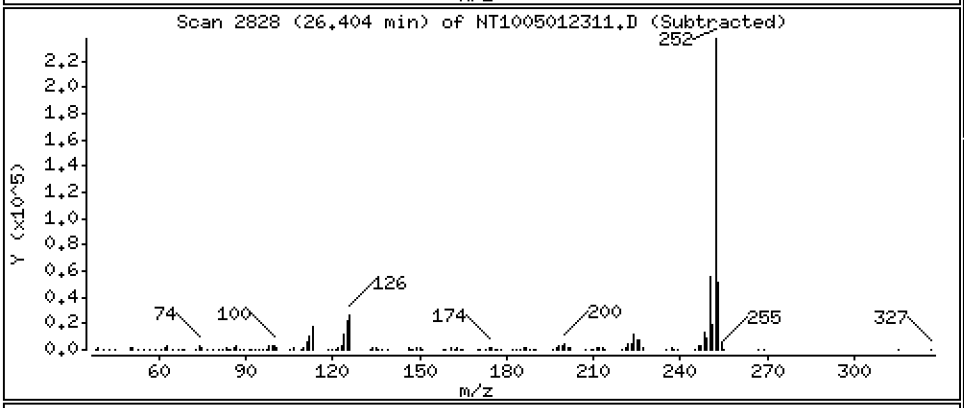
Column phase: ZB-5msi

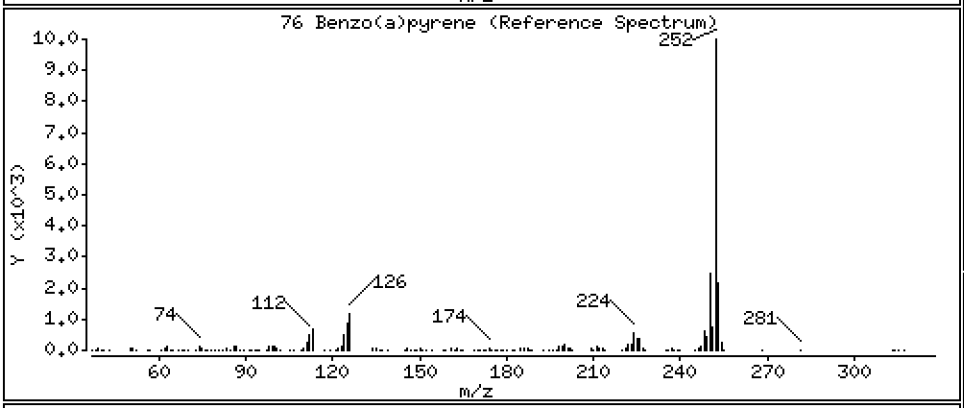
Column diameter: 0.25

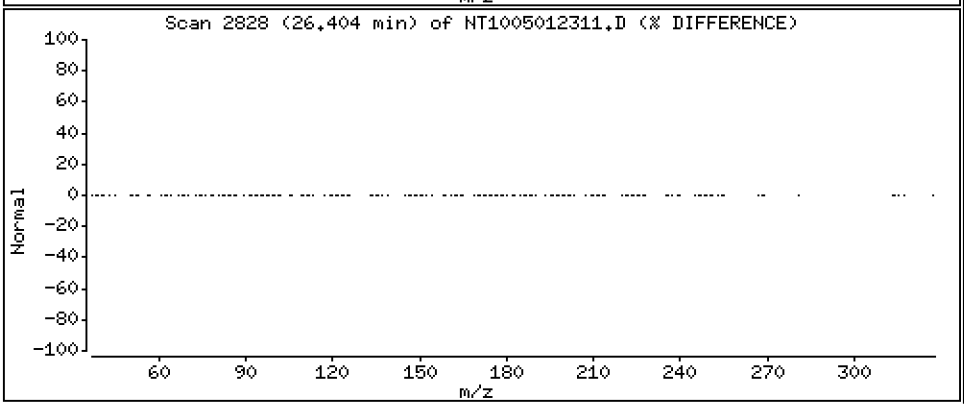
76 Benzo(a)pyrene

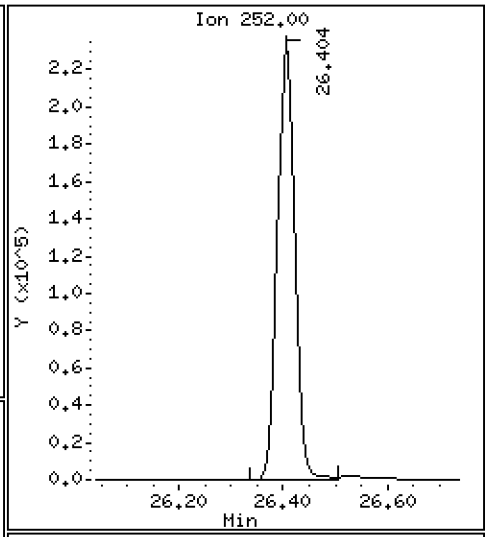
Concentration: 4.787 ug/mL

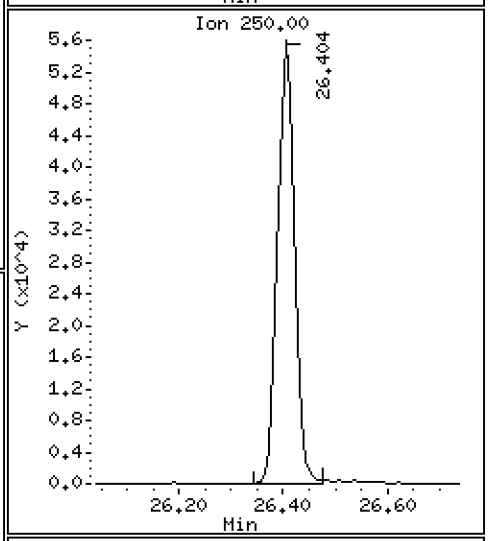


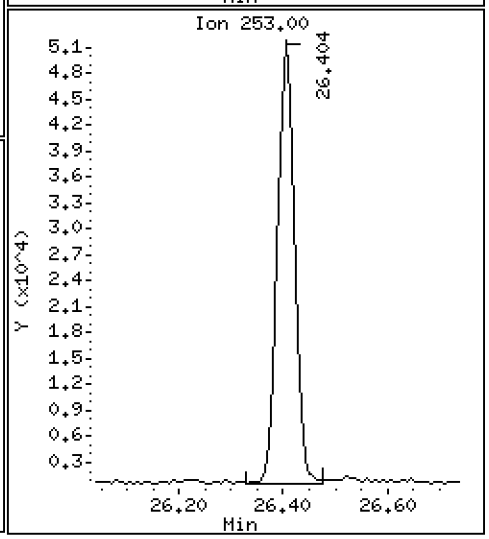












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

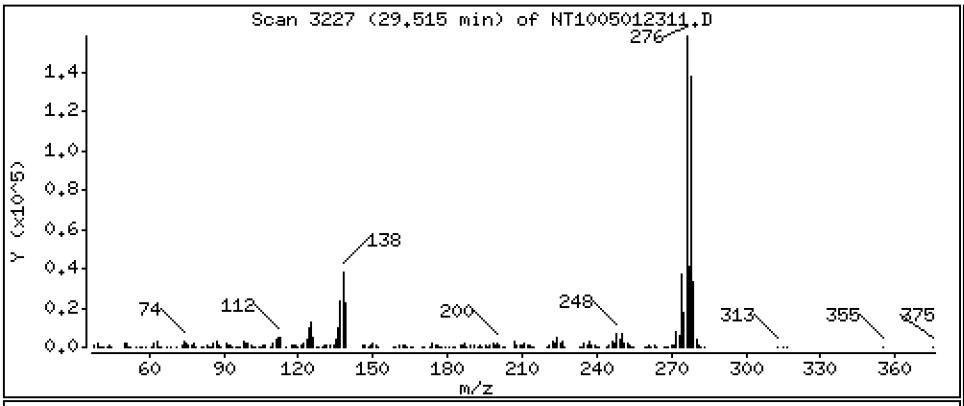
Operator: VTS

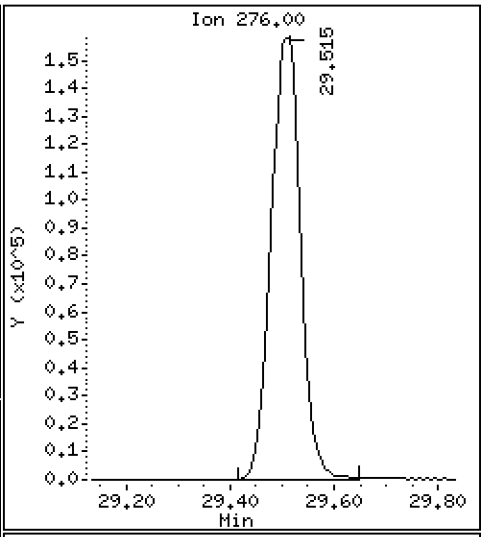
Column phase: ZB-5msi

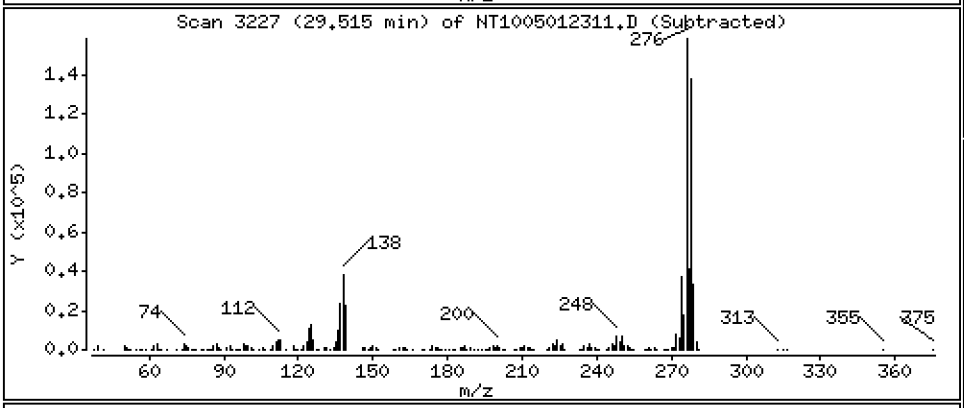
Column diameter: 0.25

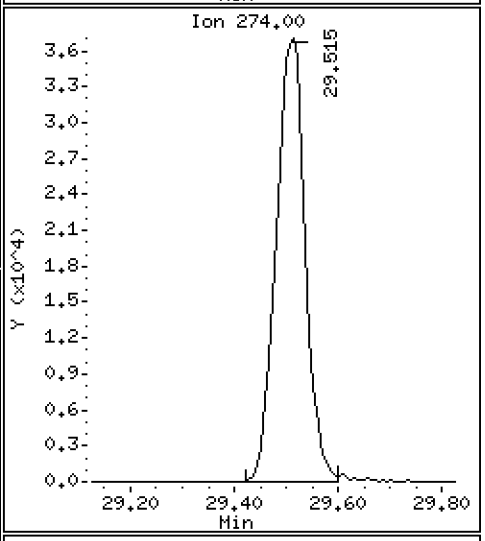
78 Indeno(1,2,3-cd)pyrene

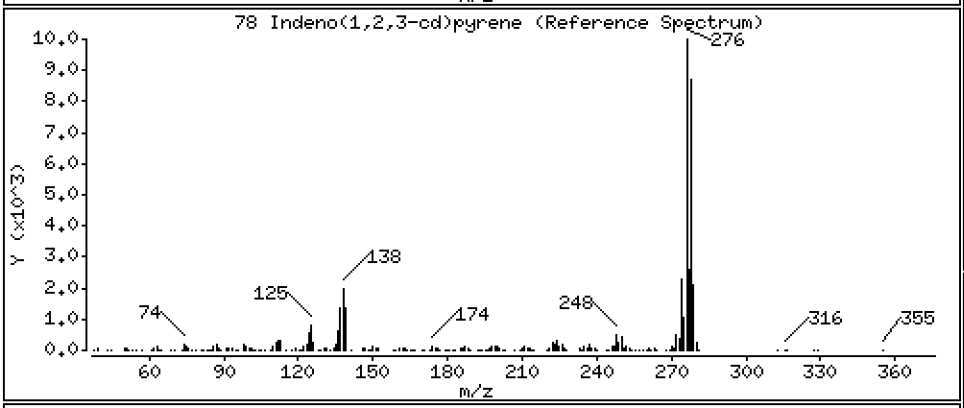
Concentration: 4.677 ug/mL

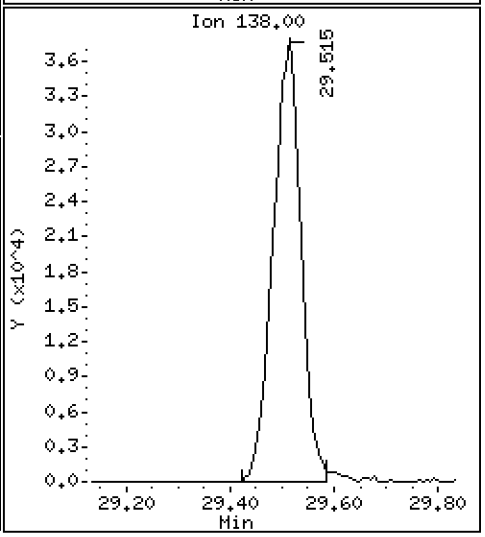


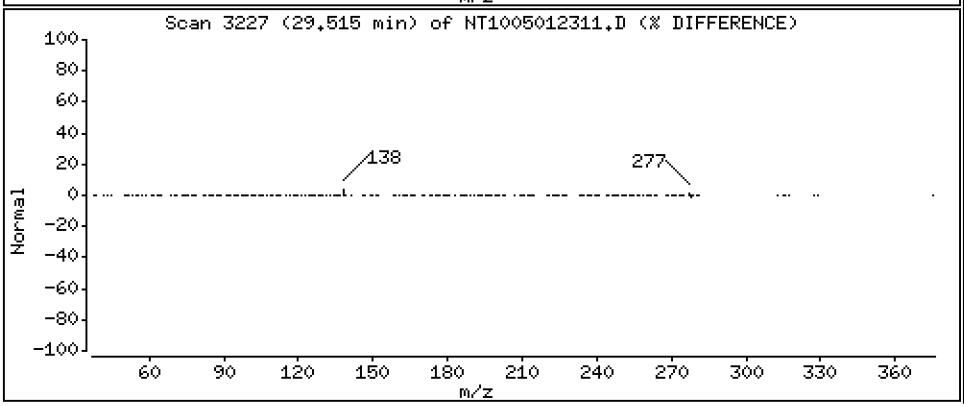












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

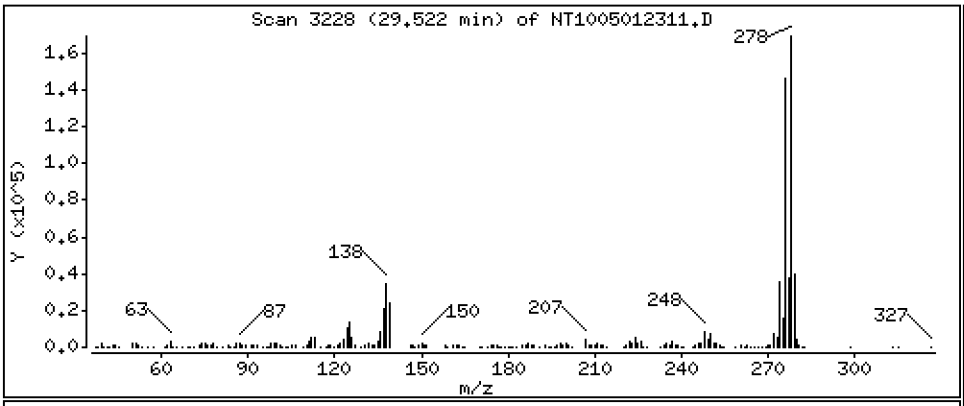
Operator: VTS

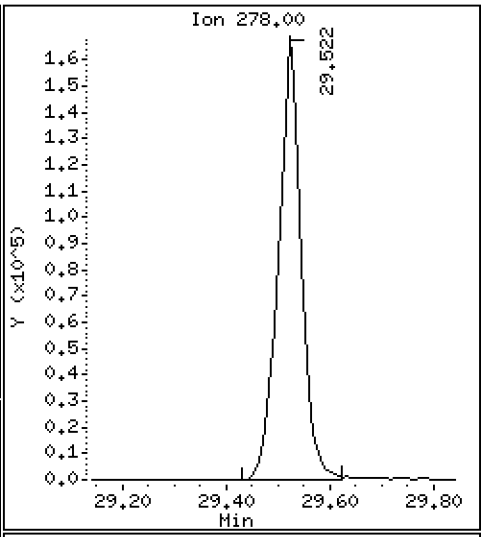
Column phase: ZB-5msi

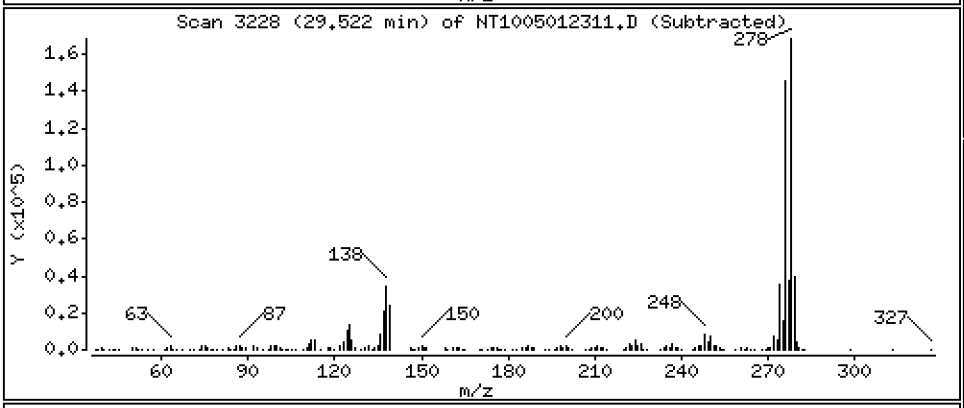
Column diameter: 0.25

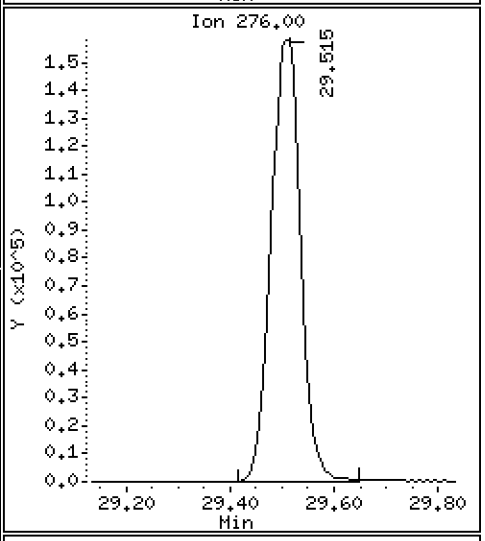
79 Dibenzo(a,h)anthracene

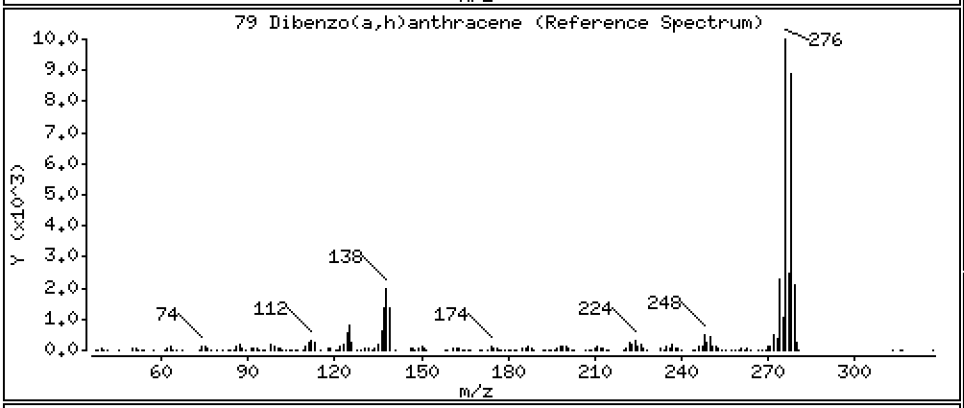
Concentration: 4.649 ug/mL

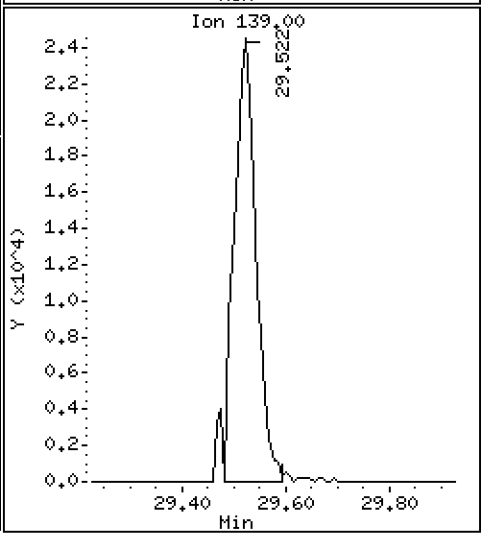


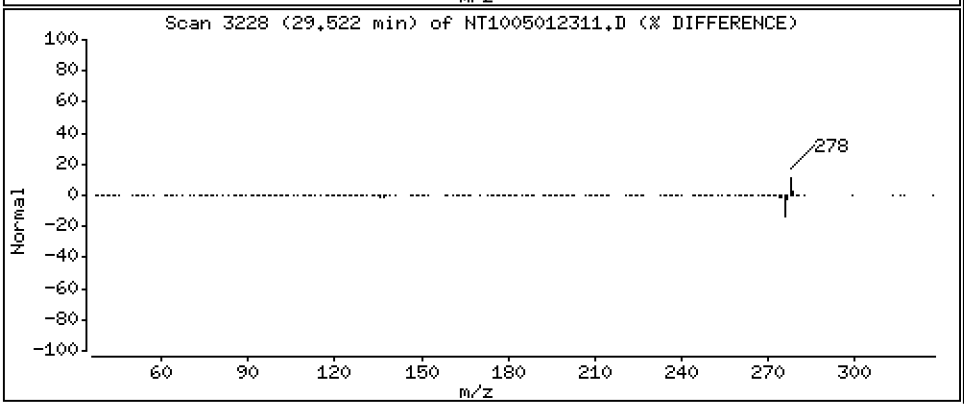












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

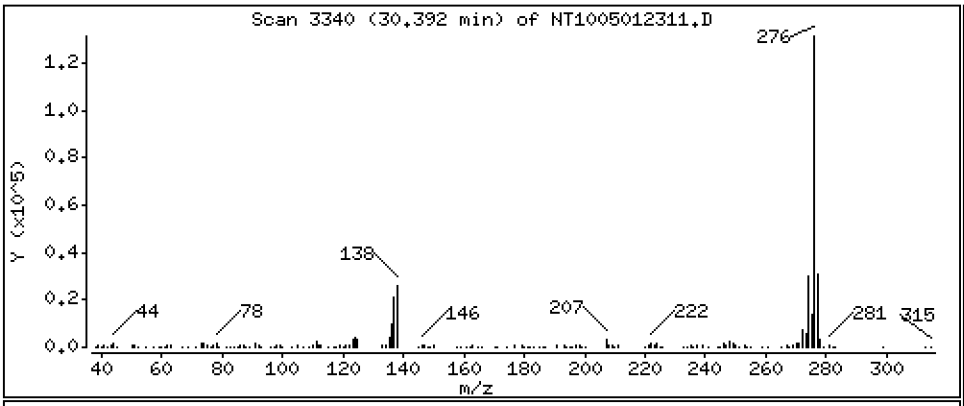
Operator: VTS

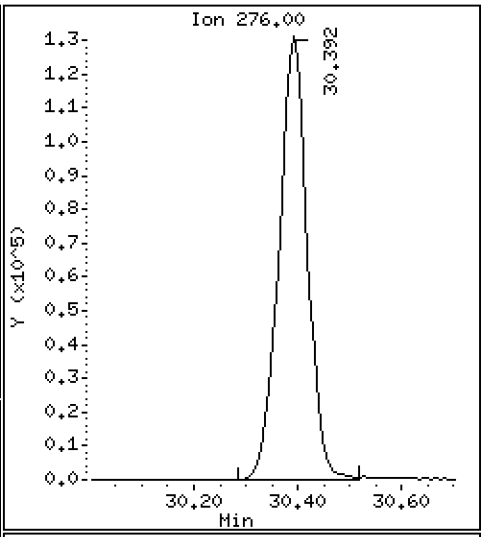
Column phase: ZB-5msi

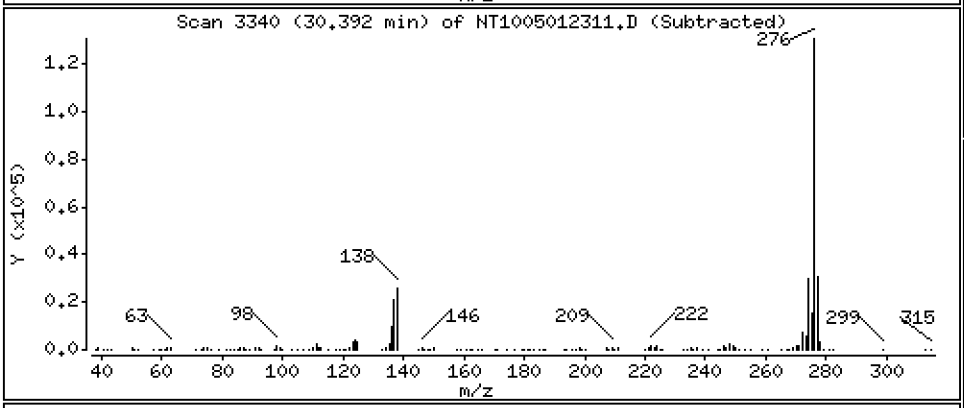
Column diameter: 0.25

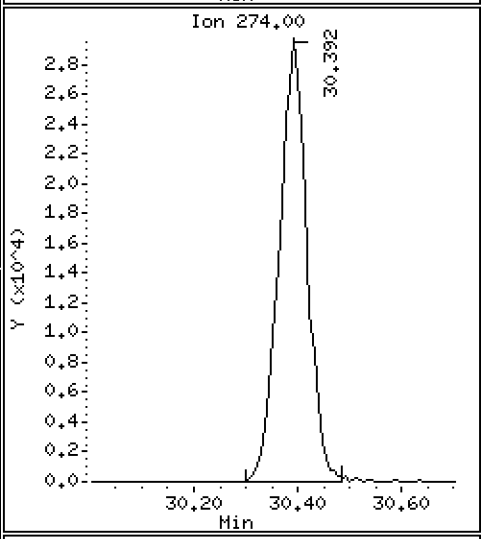
80 Benzo(g,h,i)perylene

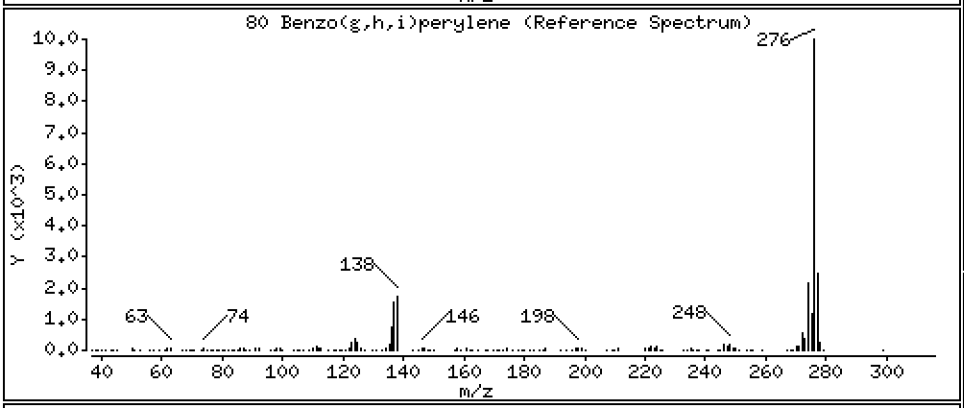
Concentration: 4.659 ug/mL

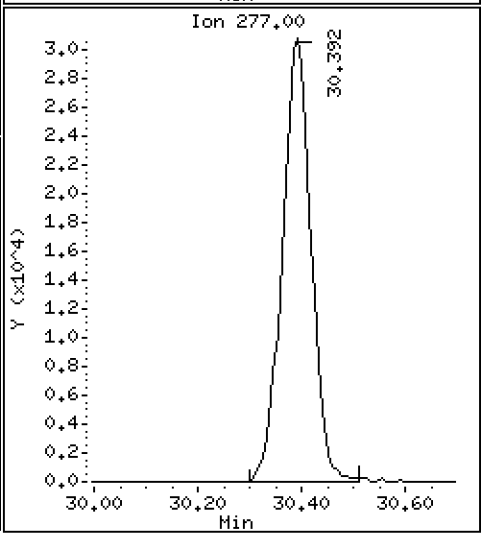


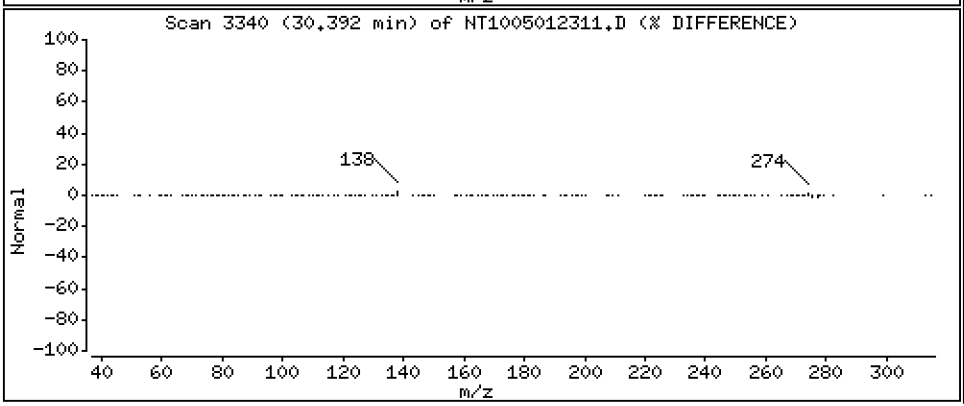












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

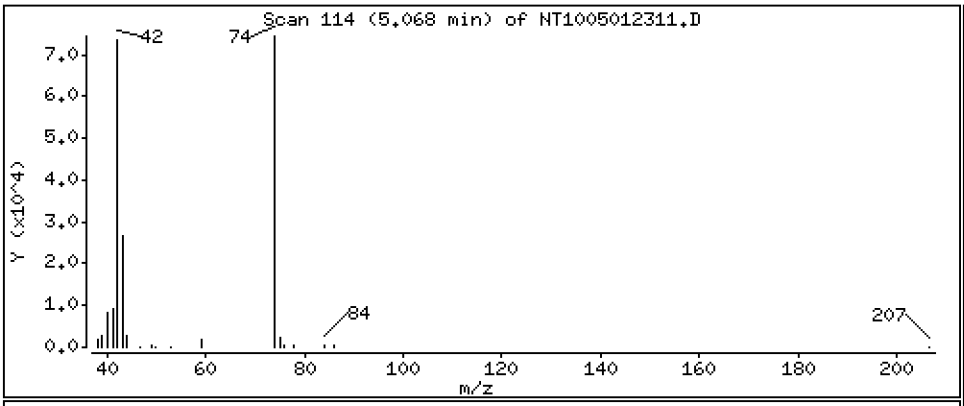
Operator: VTS

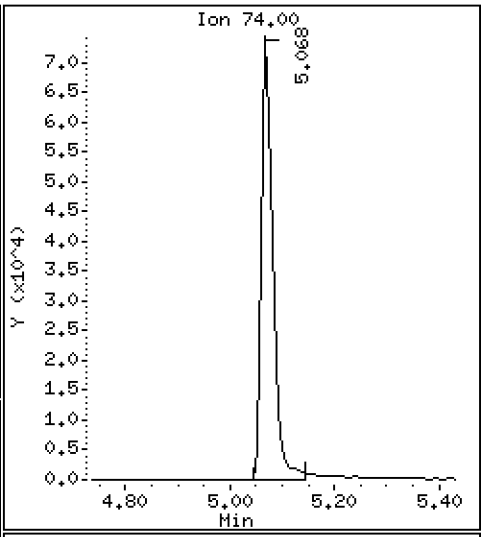
Column phase: ZB-5msi

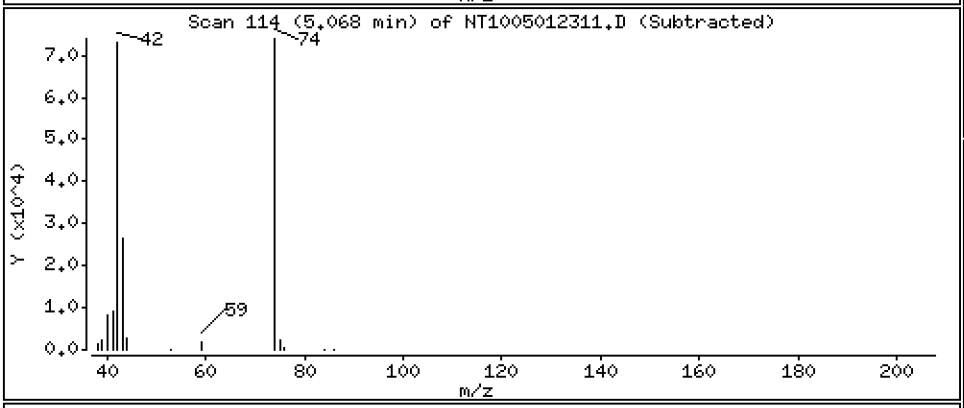
Column diameter: 0.25

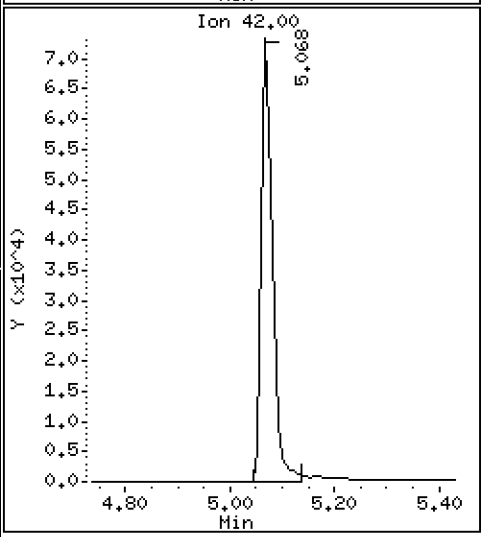
90 N-Nitrosodimethylamine

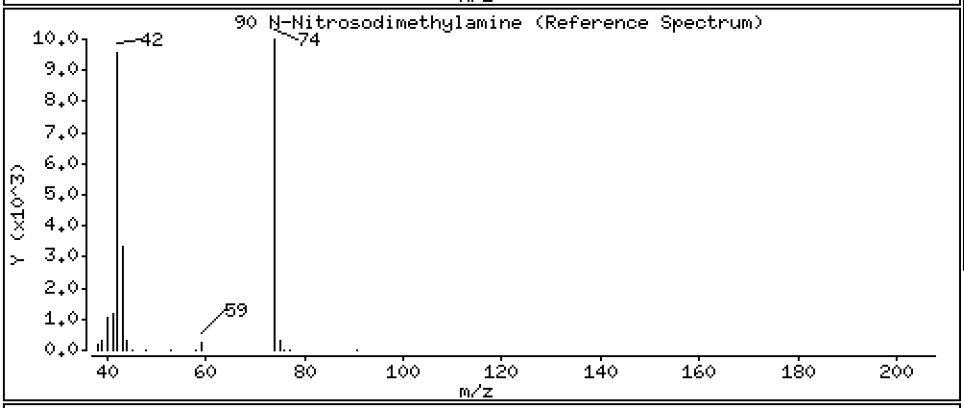
Concentration: 5.190 ug/mL

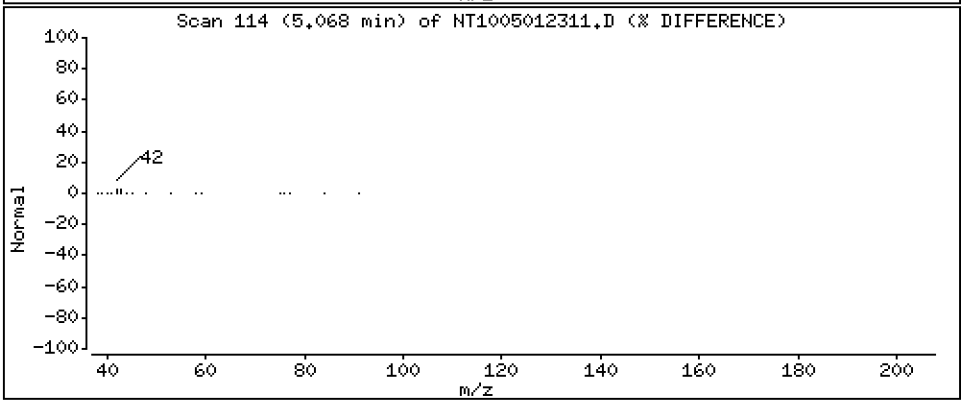












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

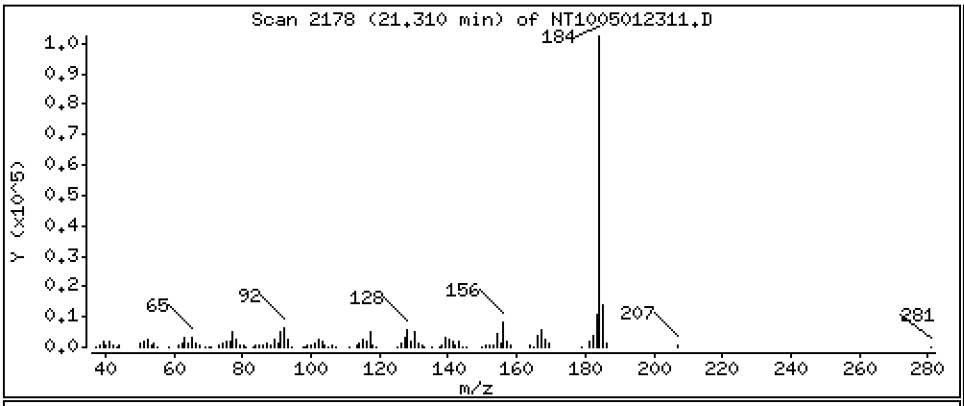
Operator: VTS

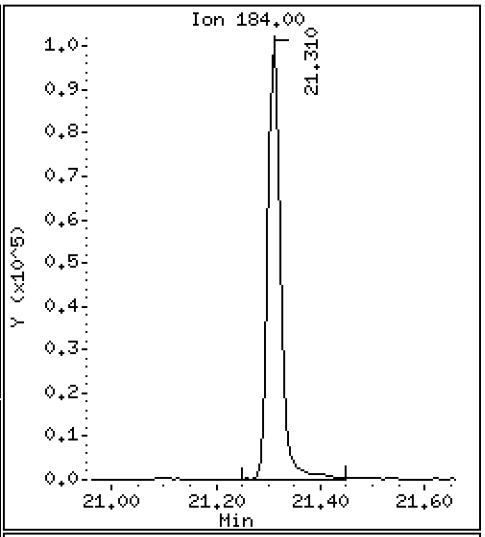
Column phase: ZB-5msi

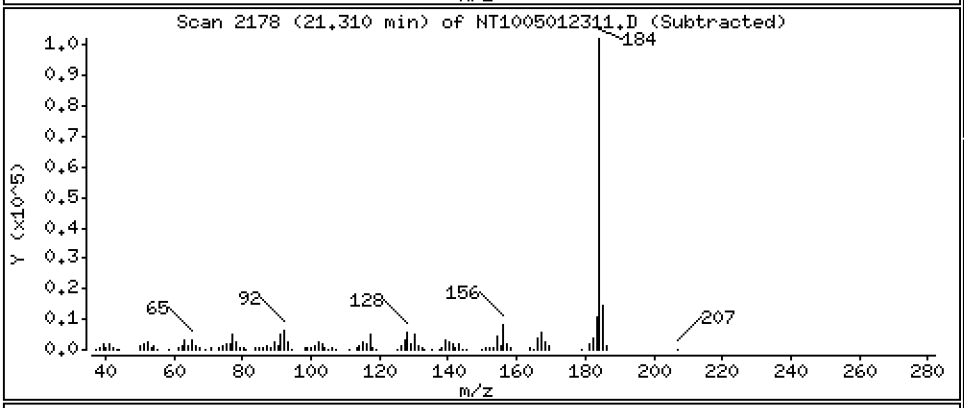
Column diameter: 0.25

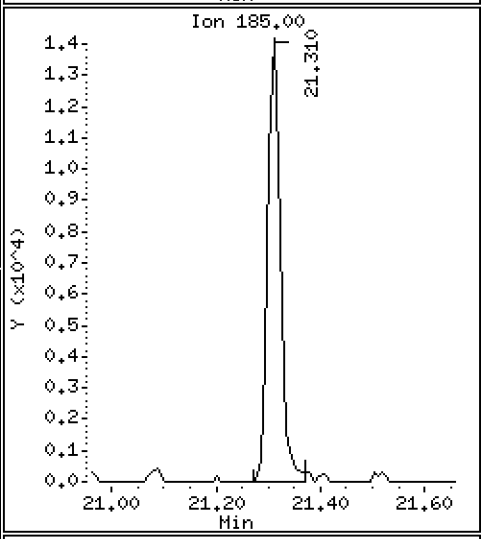
93 Benzidine

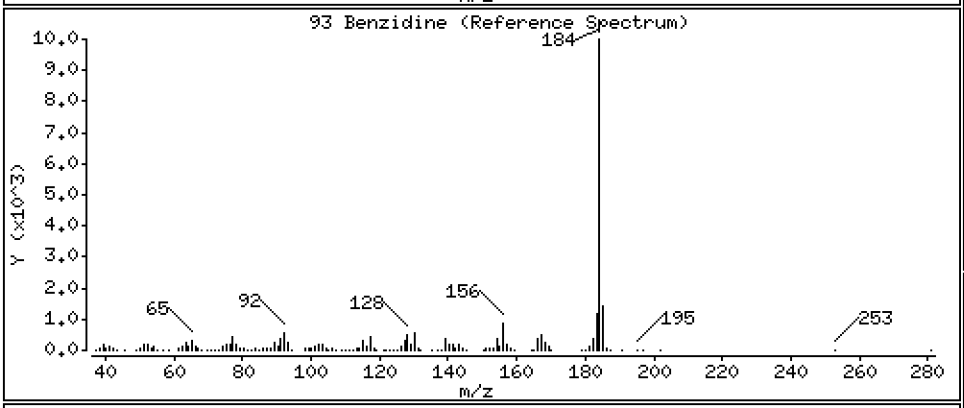
Concentration: 2.801 ug/mL

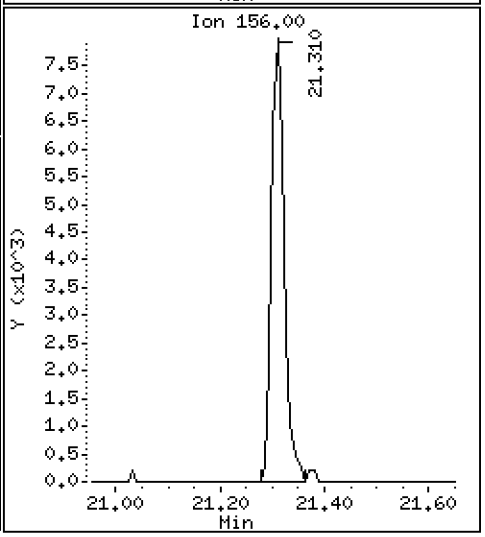


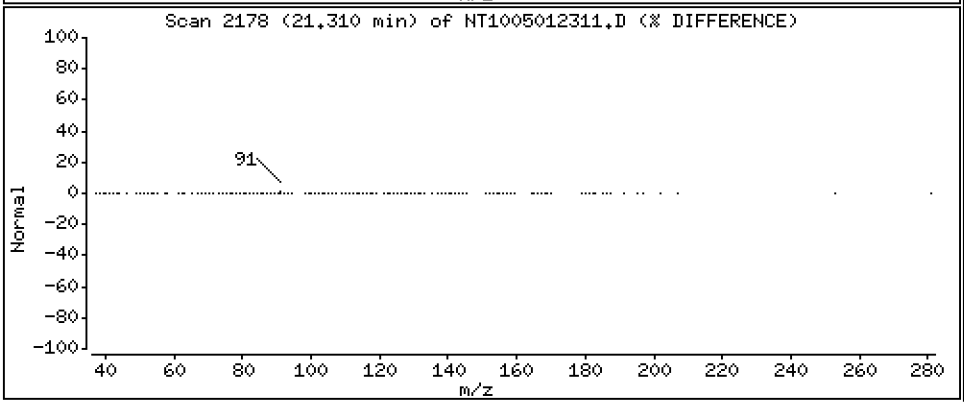












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

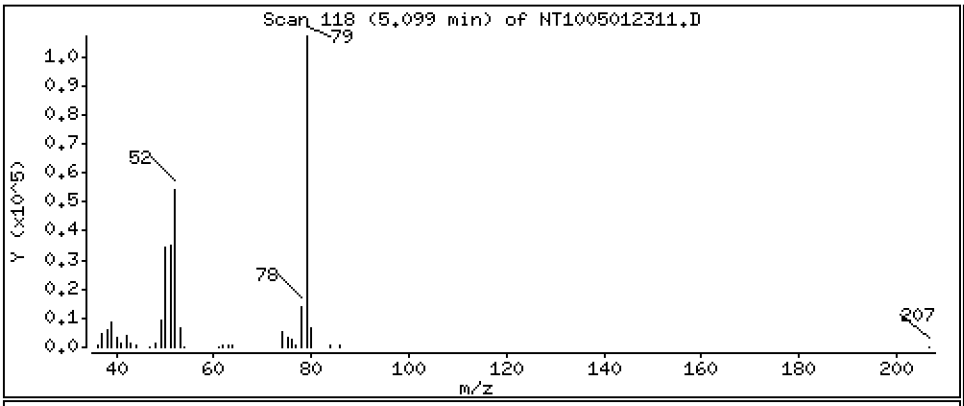
Operator: VTS

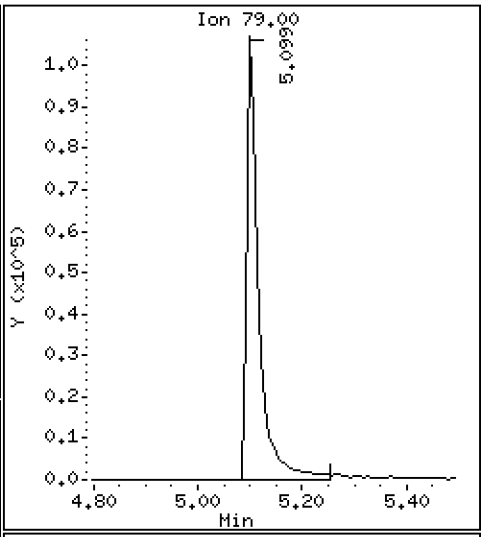
Column phase: ZB-5msi

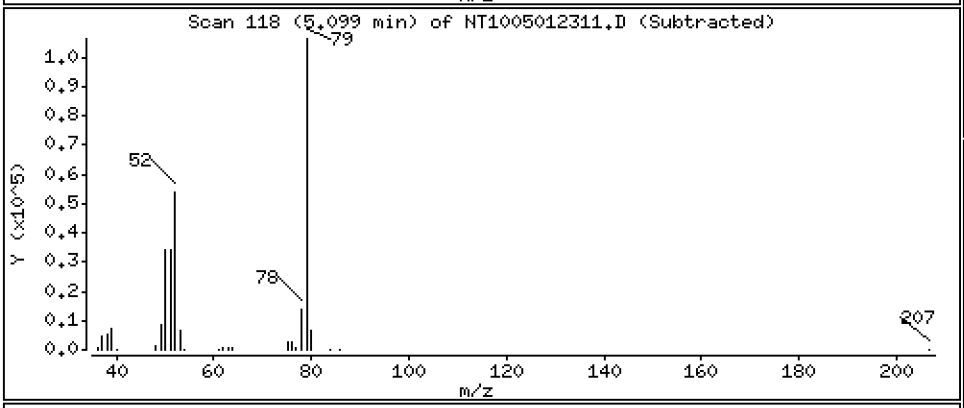
Column diameter: 0.25

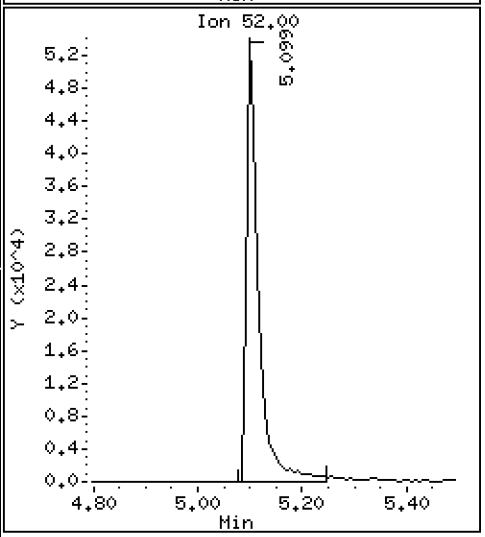
103 Pyridine

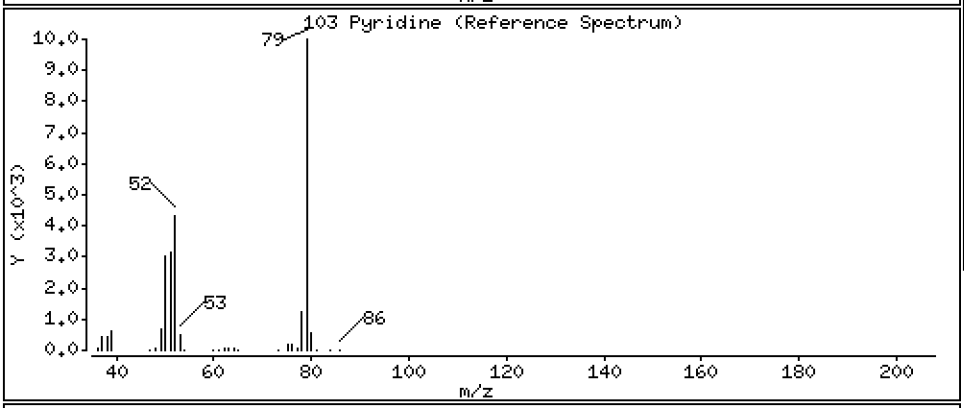
Concentration: 5.329 ug/mL

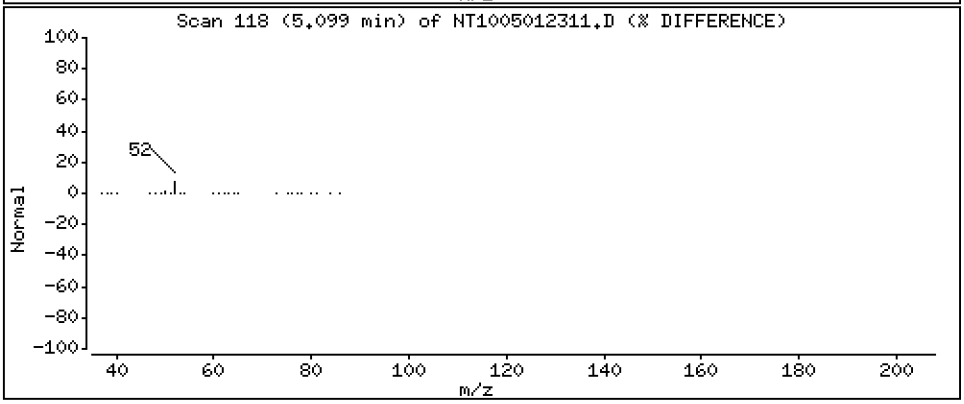












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

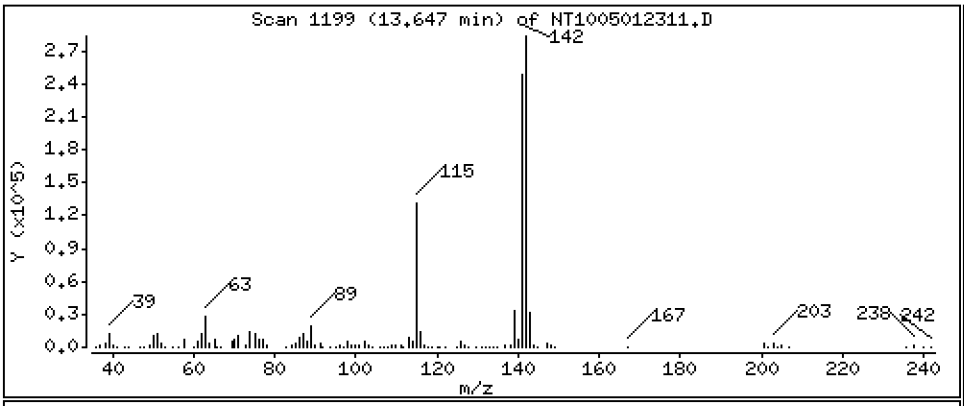
Operator: VTS

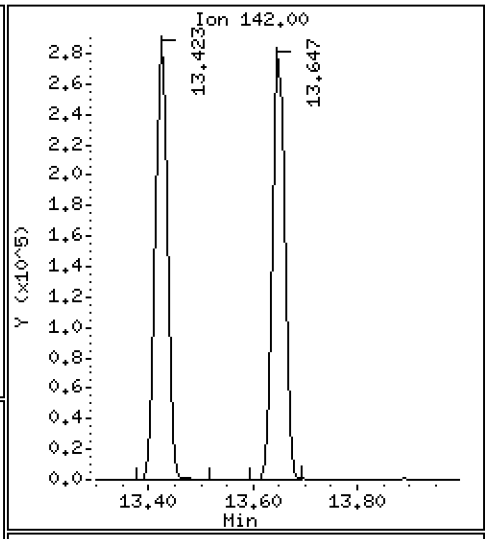
Column phase: ZB-5msi

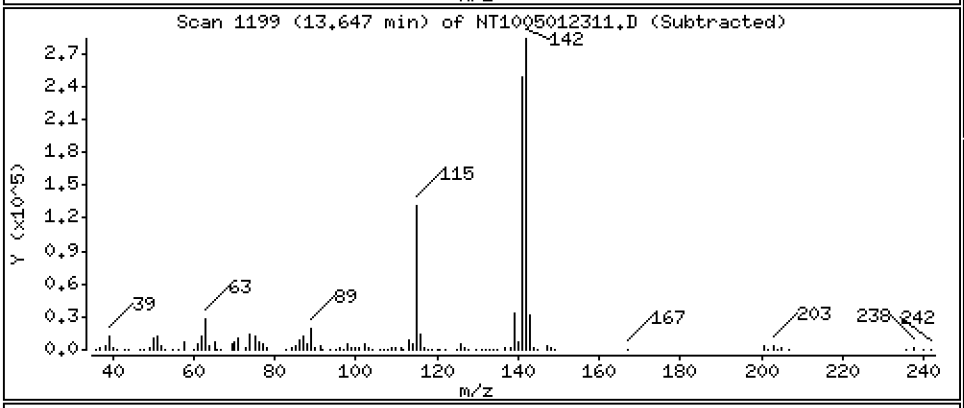
Column diameter: 0.25

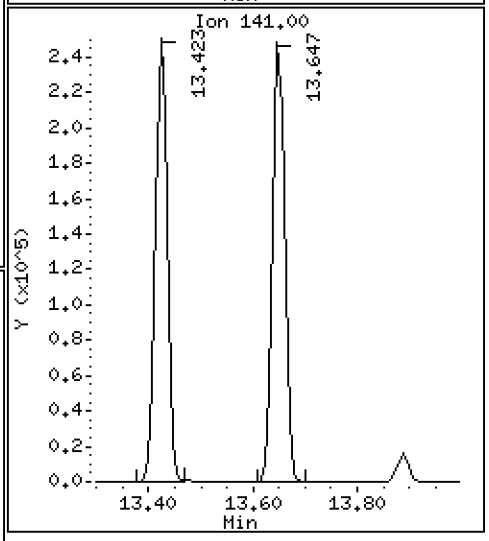
105 1-methylnaphthalene

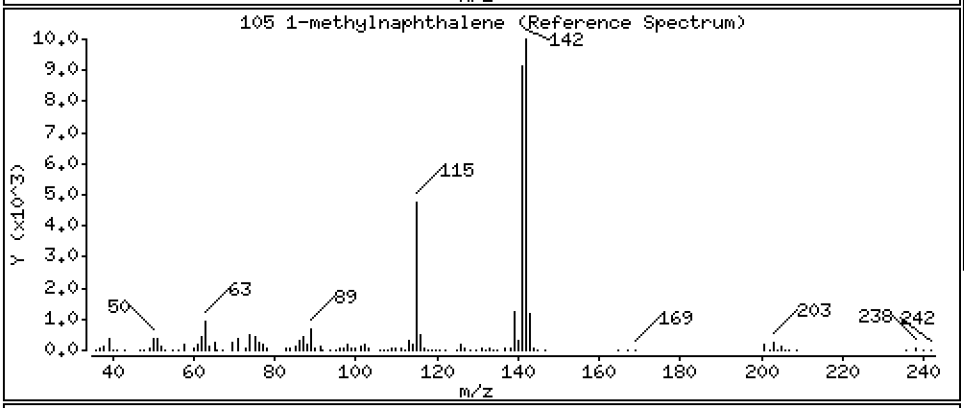
Concentration: 4.835 ug/mL

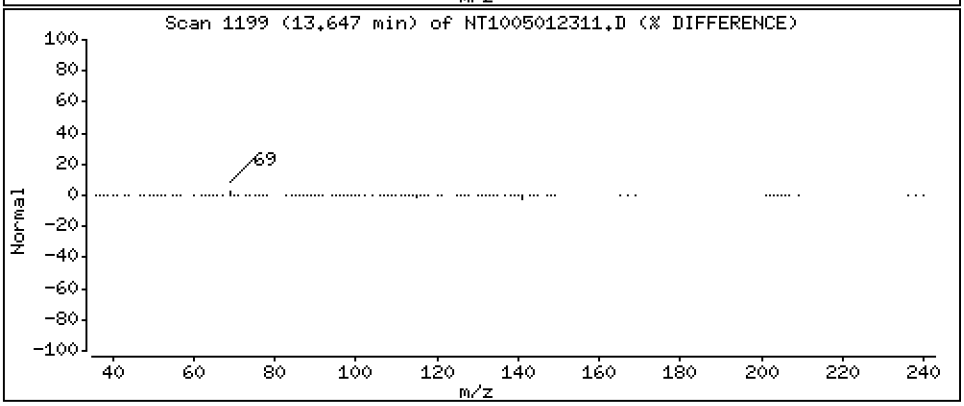












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

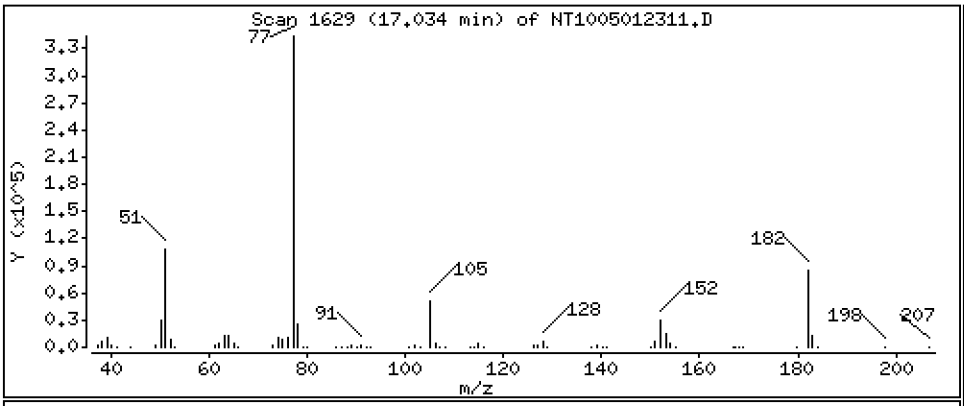
Operator: VTS

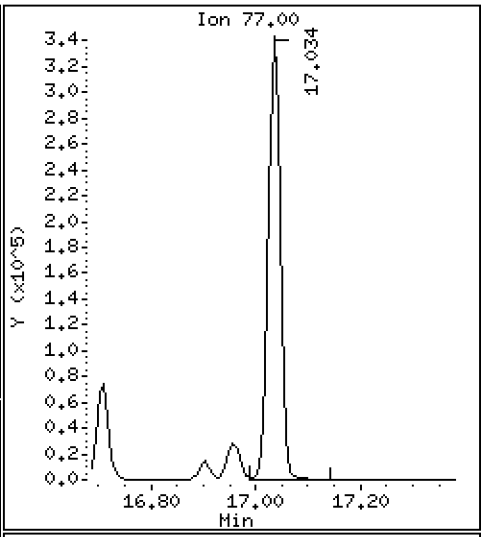
Column phase: ZB-5msi

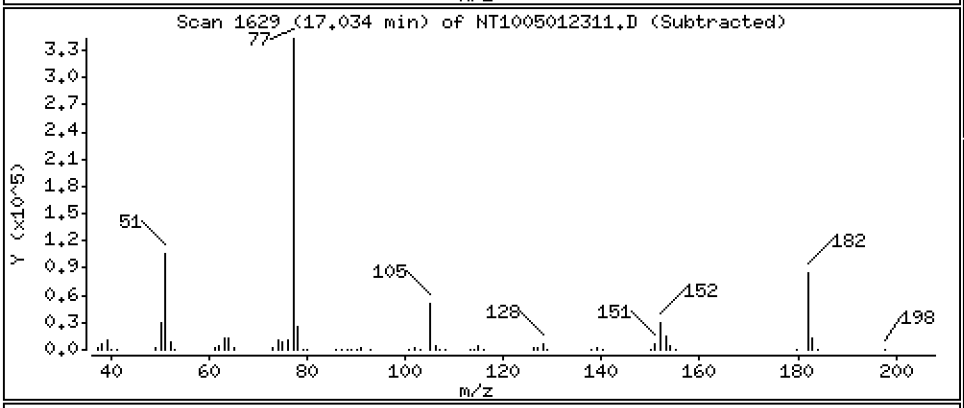
Column diameter: 0.25

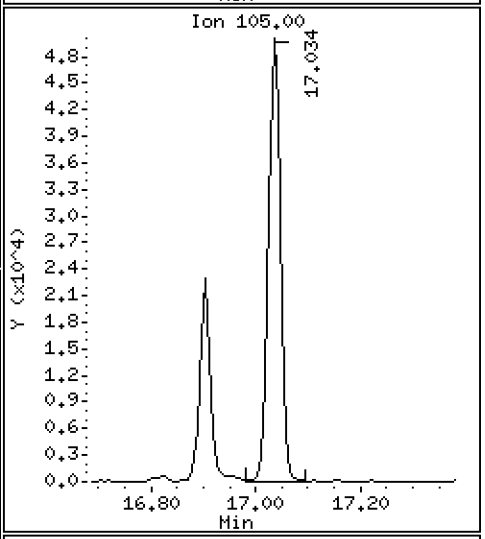
111 Azobenzene (1,2-DP-Hydrazine)

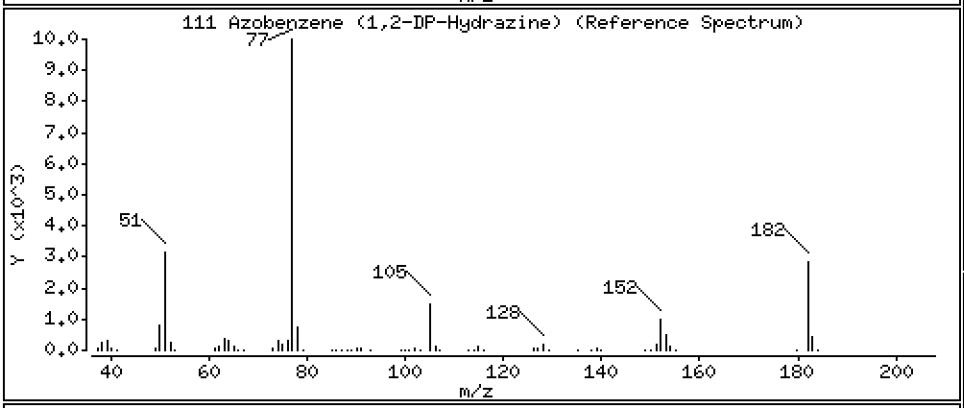
Concentration: 5.141 ug/mL

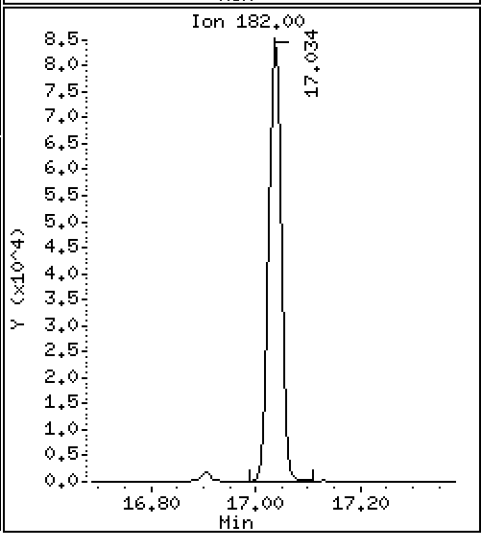


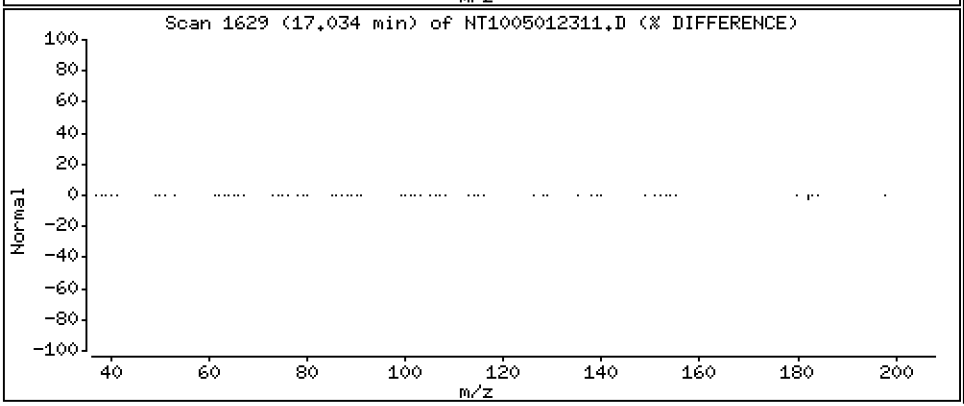












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

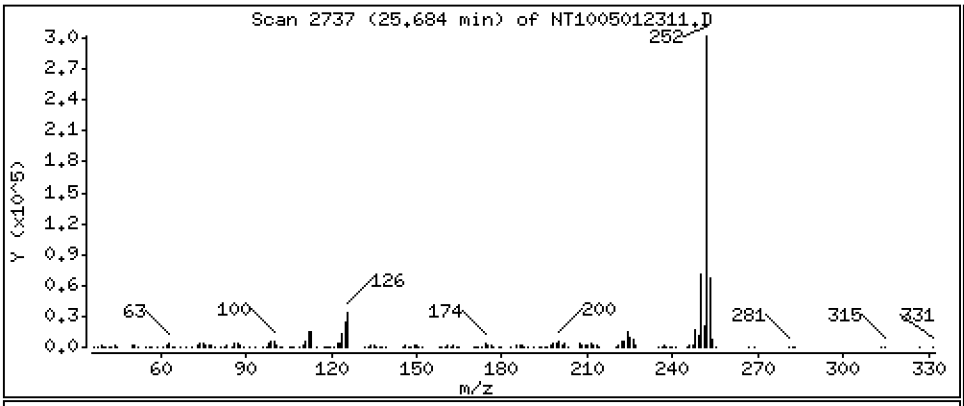
Operator: VTS

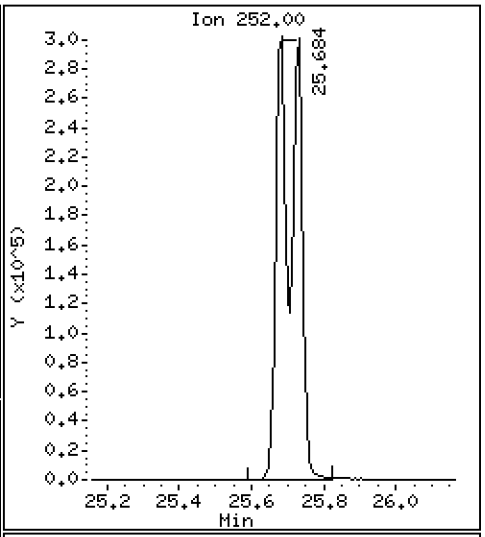
Column phase: ZB-5msi

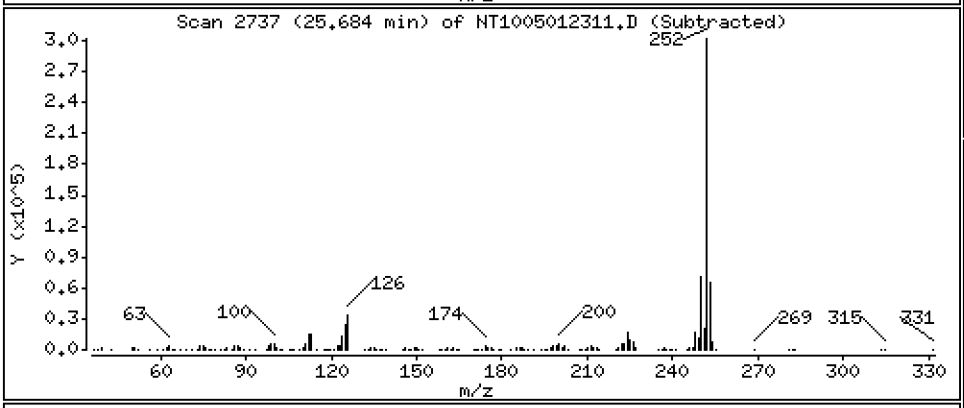
Column diameter: 0.25

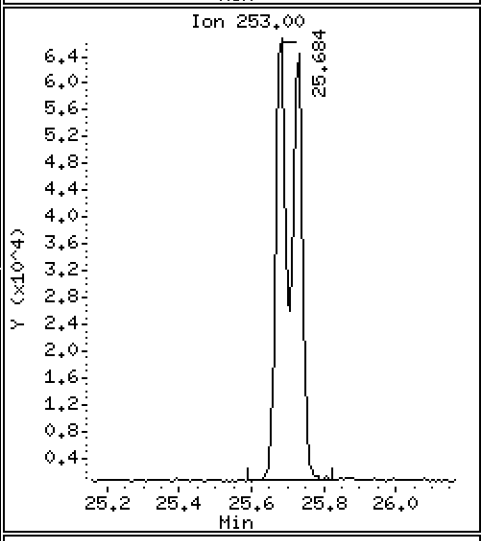
187 Total Benzofluoranthenes

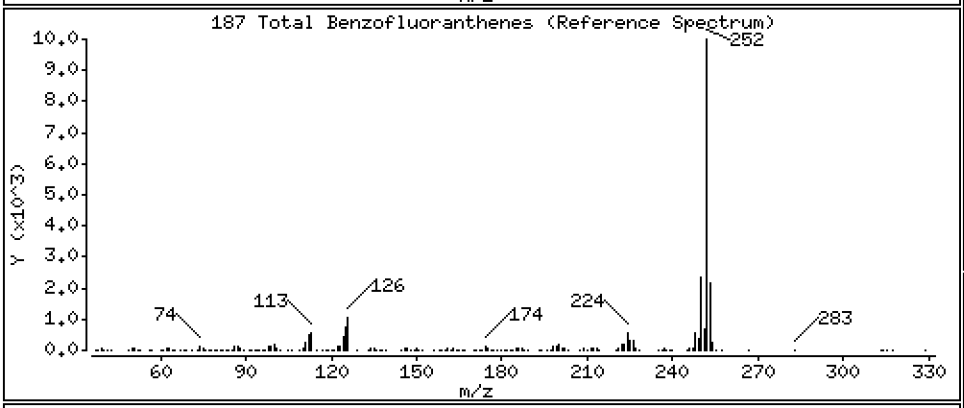
Concentration: 9.184 ug/mL

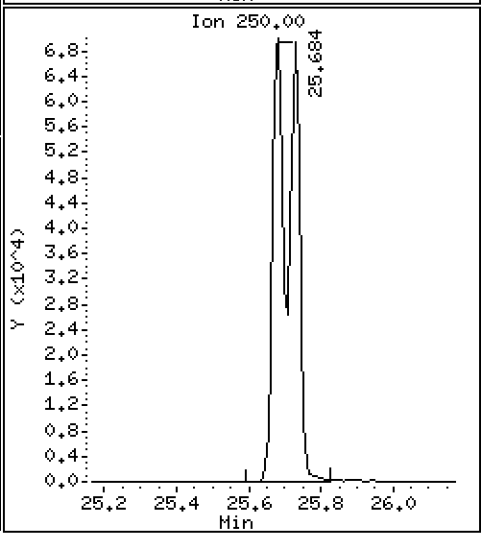


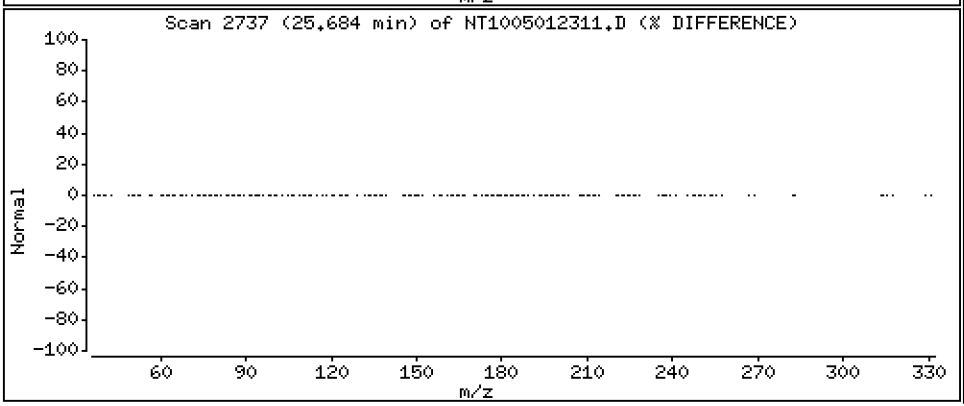












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

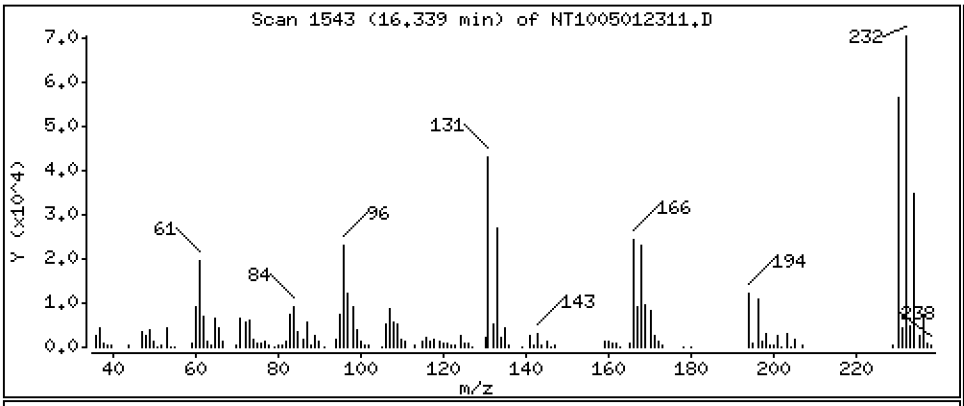
Operator: VTS

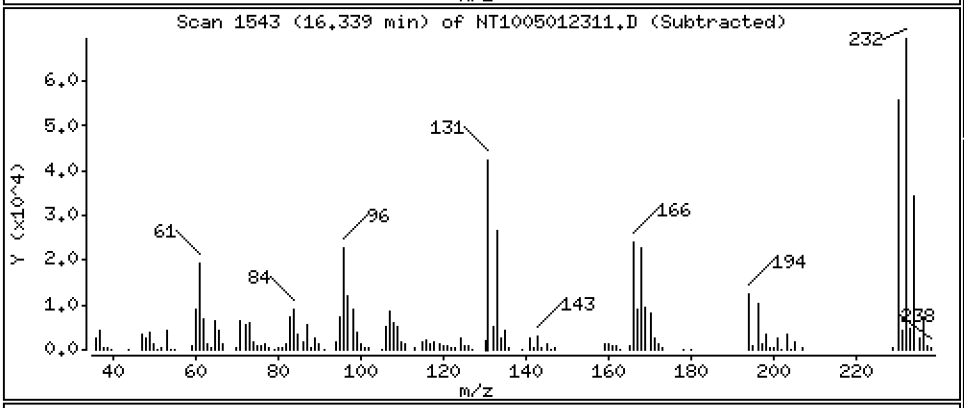
Column phase: ZB-5msi

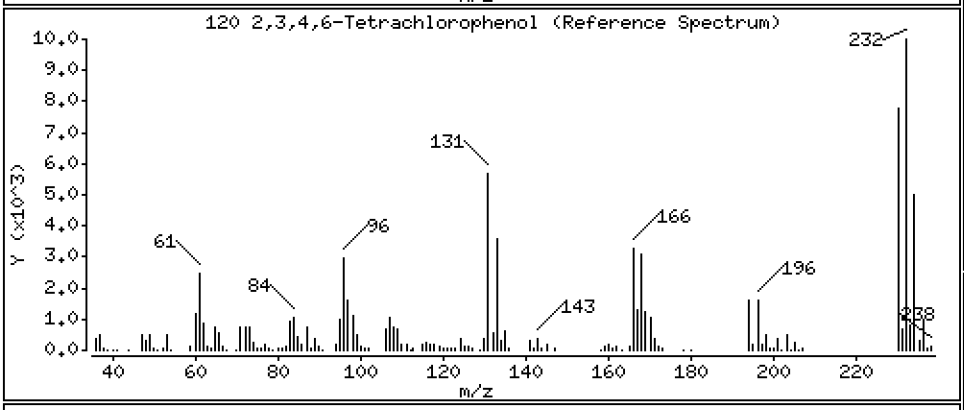
Column diameter: 0.25

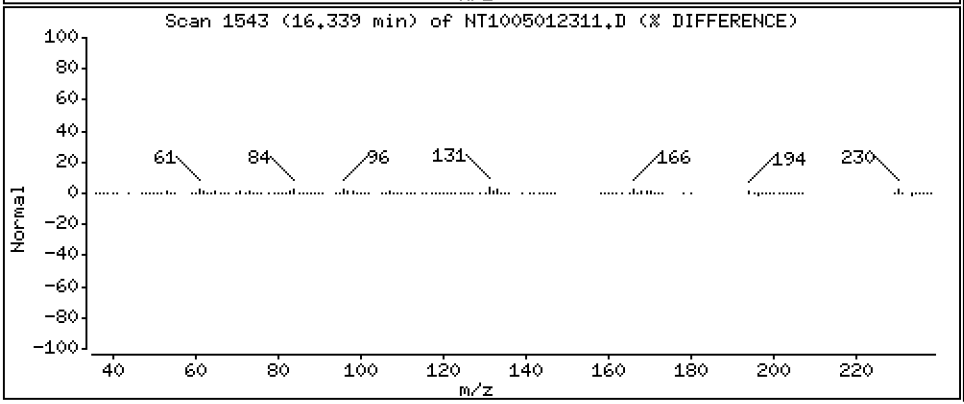
120 2,3,4,6-Tetrachlorophenol

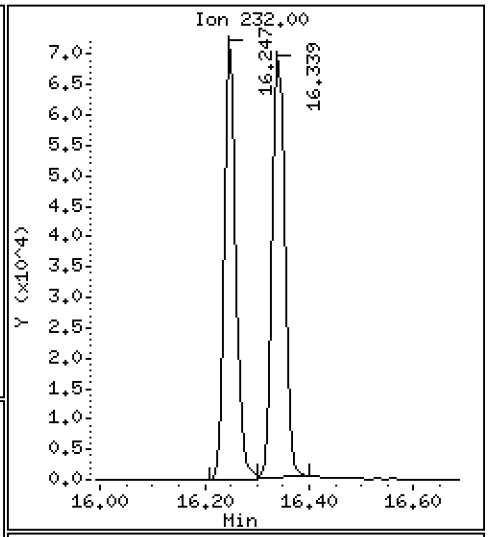
Concentration: 3.691 ug/mL

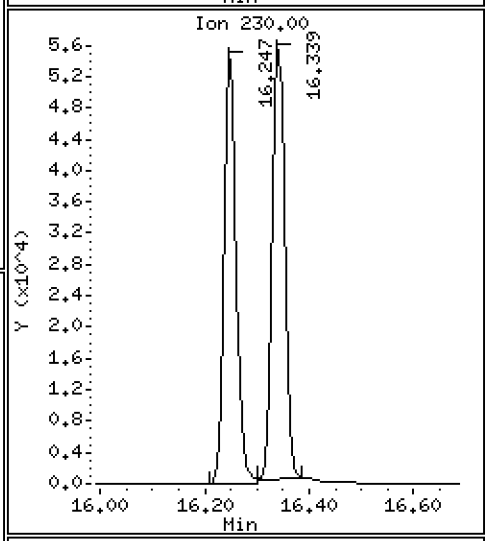


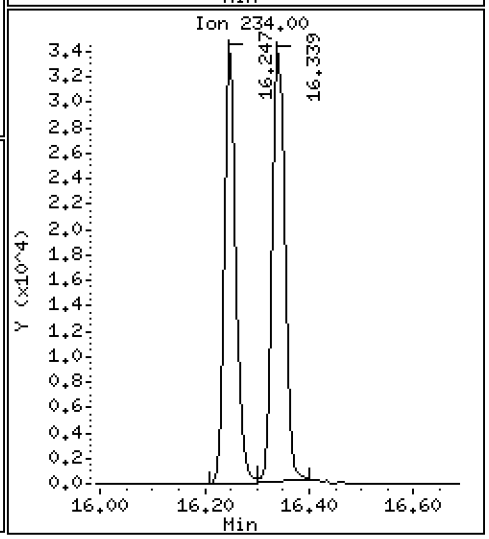












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Inj Date : 01-MAY-2023 20:43
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 02-May-2023 15:27 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

			QUANT SIG						CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		(ug/mL)	(ug/mL)	
$	1	2-Fluorophenol	112	Compound Not Detected.							
$	2	Phenol-d5	99	Compound Not Detected.							
	3	Phenol	94	8.837	8.837	(1.000)	225316		4.48333	4.483	
$	5	2-Chlorophenol-d4	132	Compound Not Detected.							
	4	Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	200069		5.50170	5.502	
	6	2-Chlorophenol	128	9.146	9.146	(1.000)	197459		4.45581	4.456	
	7	1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	246622		4.93946	4.939	
*	8	1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	128837		4.00000		(M)
	9	1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	269341		5.49159	5.492	
$	10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.							
	12	1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	235118		4.93763	4.938	
	11	Benzyl alcohol	108	9.751	9.750	(1.000)	122452		5.06918	5.069	
	14	2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.000)	77053		5.60278	5.603	
	13	2-Methylphenol	108	9.960	9.960	(1.000)	156011		4.23248	4.232	
	17	Hexachloroethane	117	10.473	10.472	(1.000)	111876		5.27548	5.275	
	16	N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	157237		5.38567	5.386	
	15	4-Methylphenol	108	10.232	10.232	(1.000)	196502		4.44066	4.441	
$	18	Nitrobenzene-d5	82	Compound Not Detected.							
	19	Nitrobenzene	77	10.628	10.628	(0.886)	251823		4.97032	4.970	
	20	Isophorone	82	11.070	11.062	(0.923)	475152		7.87757	7.878	
	21	2-Nitrophenol	139	11.257	11.249	(0.939)	104749		3.89627	3.896	
	22	2,4-Dimethylphenol	107	11.283	11.283	(0.941)	169403		3.42401	3.424	
	23	Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.958)	221150		5.73564	5.736	
	24	Benzoic acid	105	11.427	11.359	(0.953)	253834		7.38578	7.386	
	25	2,4-Dichlorophenol	162	11.699	11.698	(0.976)	174106		4.47956	4.480	
	26	1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	243710		4.37789	4.378	
*	27	Naphthalene-d8	136	11.991	11.983	(1.000)	469135		4.00000		
	28	Naphthalene	128	12.030	12.022	(1.003)	620670		4.74201	4.742	
	29	4-Chloroaniline	127	12.145	12.145	(1.013)	190542		3.95611	3.956	
	30	Hexachlorobutadiene	225	12.385	12.377	(1.033)	142010		4.62571	4.626	
	31	4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	188904		4.45976	4.460	
	32	2-Methylnaphthalene	142	13.422	13.422	(1.119)	441670		4.51323	4.513	
	33	Hexachlorocyclopentadiene	237	13.886	13.886	(0.889)	151577		4.67268	4.673	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	134602	4.21230	4.212
35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	140409	4.02943	4.029
$ 36	2-Fluorobiphenyl	172	14.204	14.203	(0.909)	2537	0.02246	0.02246
37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	429636	4.83017	4.830
38	2-Nitroaniline	65	14.676	14.676	(0.940)	129919	5.02932	5.029
39	Dimethylphthalate	163	15.101	15.101	(0.967)	490864	4.90763	4.908
40	Acenaphthylene	152	15.303	15.303	(0.980)	663079	4.77574	4.776
41	2,6-Dinitrotoluene	165	15.249	15.248	(0.976)	110074	4.87568	4.876
* 42	Acenaphthene-d10	164	15.620	15.612	(1.000)	260867	4.00000	
43	3-Nitroaniline	138	15.535	15.527	(0.995)	106140	4.77608	4.776
44	Acenaphthene	153	15.682	15.682	(1.004)	416452	4.71606	4.716
45	2,4-Dinitrophenol	184	15.744	15.743	(1.008)	41326	2.37611	2.376
46	Dibenzofuran	168	16.006	16.006	(1.025)	598046	4.64493	4.645
47	4-Nitrophenol	109	15.829	15.828	(1.013)	82973	3.99163	3.992
48	2,4-Dinitrotoluene	165	16.061	16.060	(1.028)	141639	4.38106	4.381
50	Diethylphthalate	149	16.563	16.555	(1.060)	524953	5.05491	5.055
49	Fluorene	166	16.733	16.725	(1.071)	484223	4.55893	4.559
51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	253695	4.79663	4.797
52	4-Nitroaniline	138	16.810	16.810	(1.076)	93244	4.29306	4.293
53	4,6-Dinitro-2-methylphenol	198	16.903	16.902	(0.905)	70705	3.75964	3.760
54	N-Nitrosodiphenylamine	169	16.957	16.956	(0.908)	324810	5.12520	5.125
$ 55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	177	0.01417	0.01417
56	4-Bromophenyl-phenylether	248	17.720	17.712	(0.949)	147865	4.94237	4.942
57	Hexachlorobenzene	284	18.044	18.044	(0.966)	140819	4.68942	4.689
58	Pentachlorophenol	266	18.401	18.393	(0.985)	80436	3.86584	3.866
* 59	Phenanthrene-d10	188	18.671	18.671	(1.000)	479585	4.00000	
60	Phenanthrene	178	18.718	18.718	(1.002)	645346	4.58600	4.586
61	Anthracene	178	18.818	18.811	(1.008)	542159	4.16924	4.169
62	Carbazole	167	19.136	19.136	(1.025)	518357	4.50323	4.503
63	Di-n-butylphthalate	149	19.902	19.901	(1.066)	862725	4.89550	4.895
64	Fluoranthene	202	21.085	21.085	(0.890)	774676	4.73795	4.738
65	Pyrene	202	21.511	21.503	(0.908)	757130	4.63549	4.635
$ 66	Terphenyl-d14	244	21.782	21.774	(0.919)	2912	0.02254	0.02254
67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	349577	4.77781	4.778
68	Benzo(a)anthracene	228	23.663	23.655	(0.999)	683788	4.71653	4.717
* 69	Chrysene-d12	240	23.694	23.686	(1.000)	366214	4.00000	
70	3,3'-Dichlorobenzidine	252	23.617	23.601	(0.997)	467557	10.2140	10.21
71	Chrysene	228	23.741	23.733	(1.002)	589116	4.54006	4.540
72	bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	493652	5.40606	5.406
* 134	Di-n-octylphthalate-d4	153	24.739	24.724	(1.000)	633915	4.00000	
73	Di-n-octylphthalate	149	24.747	24.739	(1.000)	863084	5.16068	5.161
74	Benzo(b)fluoranthene	252	25.684	25.660	(0.968)	641646	4.78532	4.785
75	Benzo(k)fluoranthene	252	25.730	25.715	(0.970)	593022	4.45695	4.457
76	Benzo(a)pyrene	252	26.404	26.388	(0.995)	537284	4.78725	4.787
* 77	Perylene-d12	264	26.536	26.520	(1.000)	326407	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.514	29.483	(1.112)	630589	4.67700	4.677
79	Dibenzo(a,h)anthracene	278	29.522	29.491	(1.113)	524960	4.64906	4.649
80	Benzo(g,h,i)perylene	276	30.392	30.353	(1.145)	500646	4.65862	4.659
90	N-Nitrosodimethylamine	74	5.067	5.083	(1.000)	109300	5.19047	5.190
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.310	21.310	(0.899)	165444	2.80075	2.801
103	Pyridine	79	5.098	5.144	(1.000)	176959	5.32922	5.329
105	1-methylnaphthalene	142	13.646	13.646	(1.138)	433828	4.83538	4.835
111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	521542	5.14057	5.141

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.684	25.660	(0.968)	1185382	9.18410	9.184
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.339	(1.046)	111498	3.69091	3.691

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	128837	-10.72
27 Naphthalene-d8	493698	246849	987396	469135	-4.98
42 Acenaphthene-d10	279210	139605	558420	260867	-6.57
59 Phenanthrene-d10	521463	260732	1042926	479585	-8.03
69 Chrysene-d12	369911	184956	739822	366214	-1.00
134 Di-n-octylphthala	626668	313334	1253336	633915	1.16
77 Perylene-d12	311339	155670	622678	326407	4.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.74	-0.03
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012311.D

Lab ID: SLE0036-SCV1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.059	-0.0589	2,2'-oxybis(1-Chloropropane)
0.953	0.948	0.0050	Benzoic acid

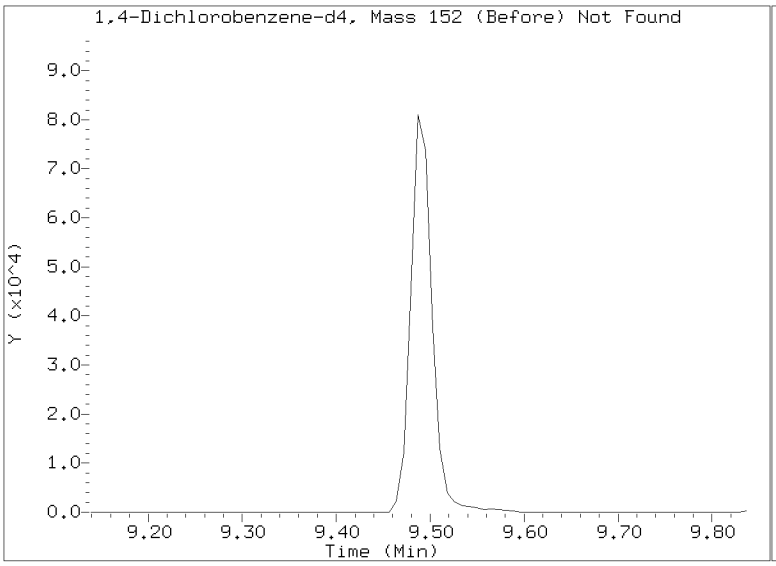
RRT check based on Ccal File: NT1005012308.D

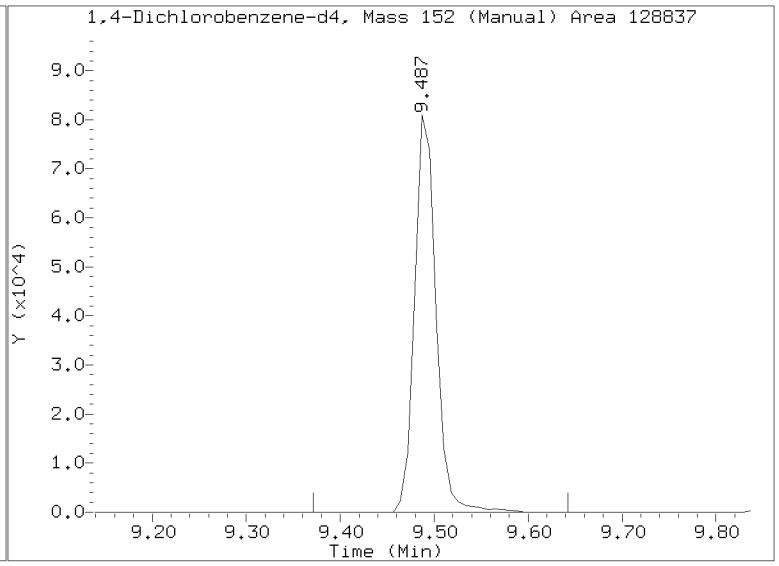
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012311.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0036-SCV1 Client ID:
Report Date: 05/02/2023 15:38





APPROVED

By Deenay Dunmore at 2:15 pm, May 03, 2023

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

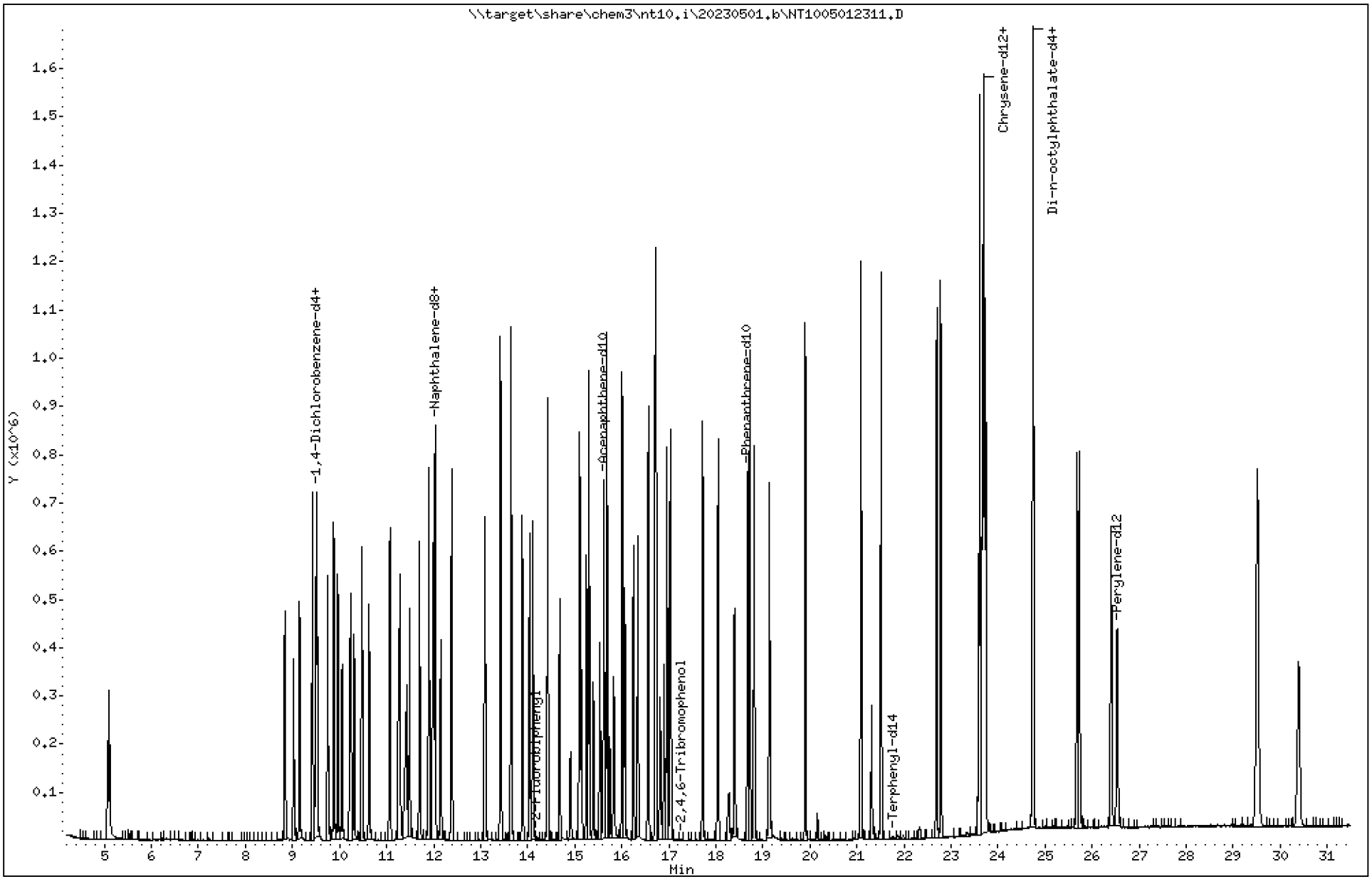
Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00012
Laboratory ID: SLE0036-SCV1
Sequence: SLE0036
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	4.5	-10.3	20.00
4-Methylphenol	5.0000	4.4	-11.2	20.00
Naphthalene	5.0000	4.7	-5.2	20.00
2-Methylnaphthalene	5.0000	4.5	-9.7	20.00
Acenaphthylene	5.0000	4.8	-4.5	20.00
Dimethylphthalate	5.0000	4.9	-1.8	20.00
Acenaphthene	5.0000	4.7	-5.7	20.00
Dibenzofuran	5.0000	4.6	-7.1	20.00
Fluorene	5.0000	4.6	-8.8	20.00
Phenanthrene	5.0000	4.6	-8.3	20.00
Anthracene	5.0000	4.2	-16.6	20.00
Fluoranthene	5.0000	4.7	-5.2	20.00
Pyrene	5.0000	4.6	-7.3	20.00
Butylbenzylphthalate	5.0000	4.8	-4.4	20.00
Benzo(a)anthracene	5.0000	4.7	-5.7	20.00
Chrysene	5.0000	4.5	-9.2	20.00
bis(2-Ethylhexyl)phthalate	5.0000	5.4	8.1	20.00
Benzofluoranthenes, Total	10.000	9.2	-8.2	20.00
Benzo(a)pyrene	5.0000	4.8	-4.3	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.7	-6.5	20.00
Dibenzo(a,h)anthracene	5.0000	4.6	-7.0	20.00
Benzo(g,h,i)perylene	5.0000	4.7	-6.8	20.00
2-Fluorophenol	7.5000	0.00		20.00
Phenol-d5	7.5000	0.00		20.00
2-Chlorophenol-d4	7.5000	0.00		20.00
1,2-Dichlorobenzene-d4	5.0000	0.00		20.00
Nitrobenzene-d5	5.0000	0.00		20.00
2-Fluorobiphenyl	5.0000	0.0225	-99.6	20.00
2,4,6-Tribromophenol	7.5000	0.0142	-99.8	20.00
p-Terphenyl-d14	5.0000	0.0225	-99.5	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Date : 01-MAY-2023 20:43
Client ID:
Sample Info: SLE0036-SCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 924 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

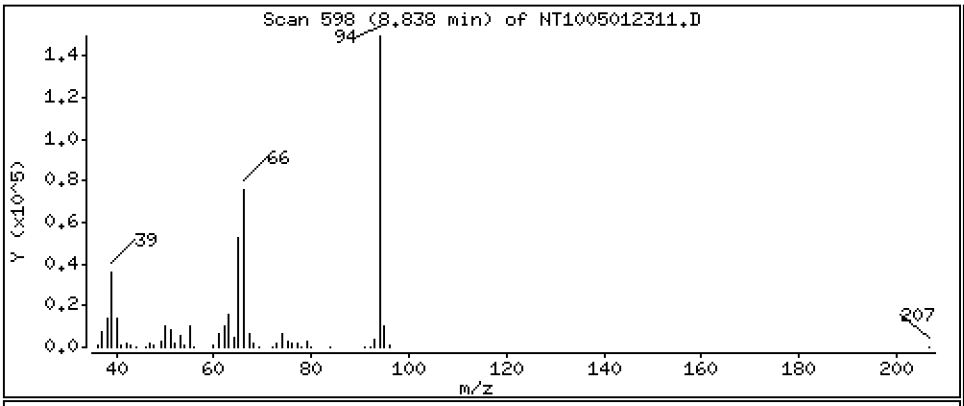
Operator: VTS

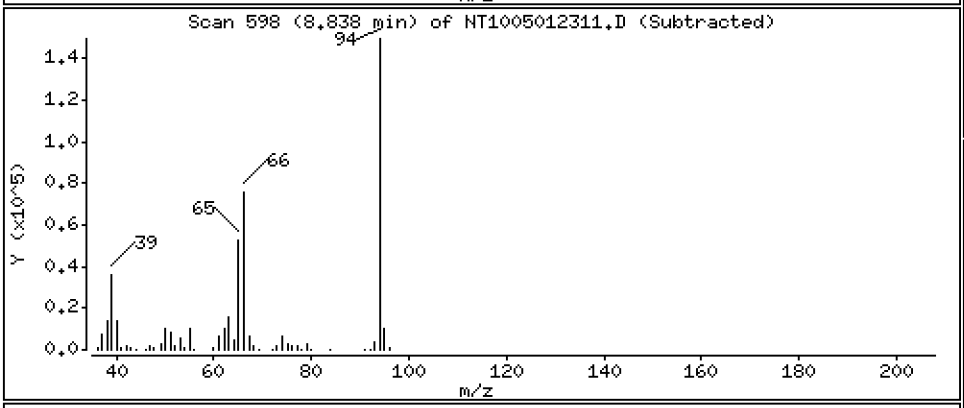
Column phase: ZB-5msi

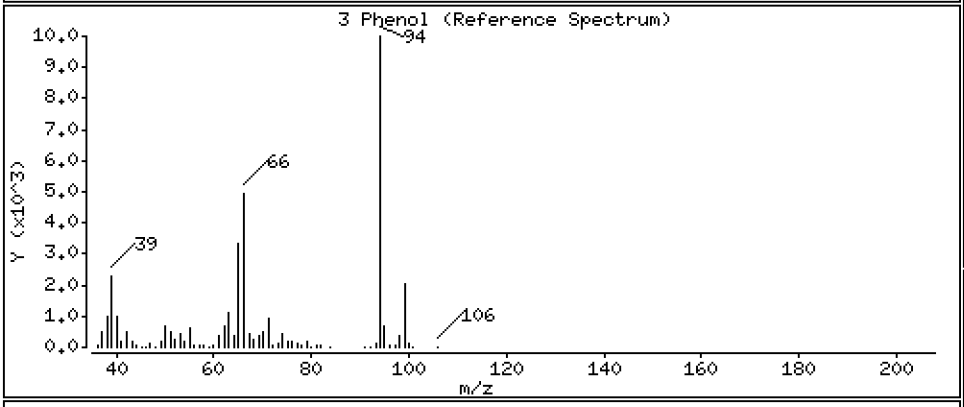
Column diameter: 0.25

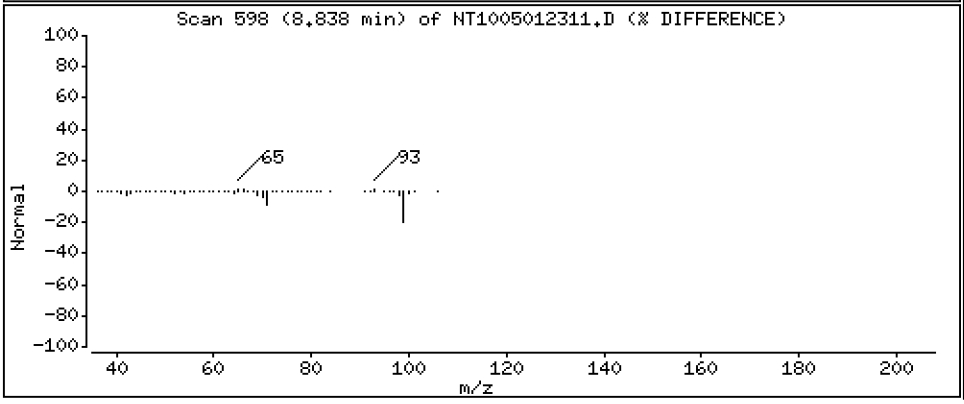
3 Phenol

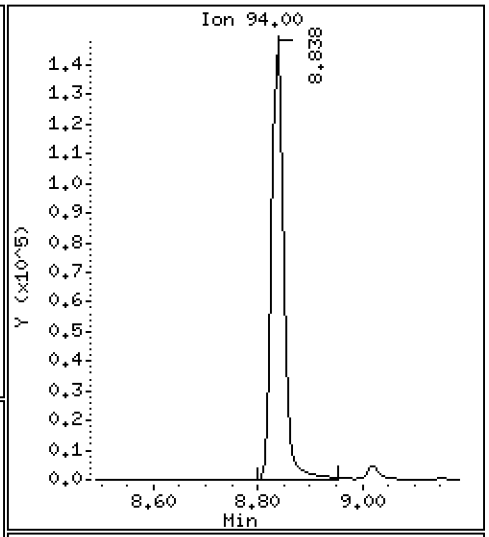
Concentration: 4.483 ug/mL

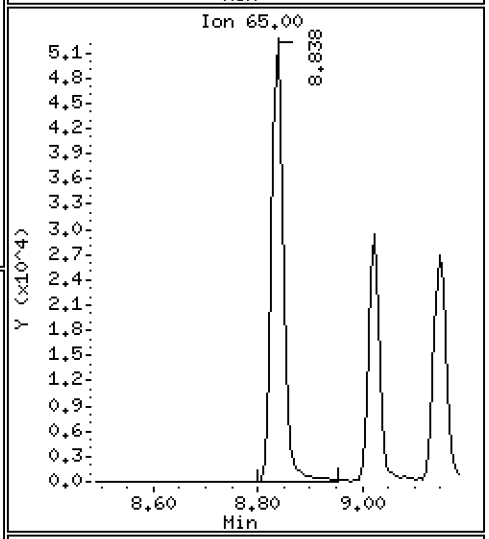


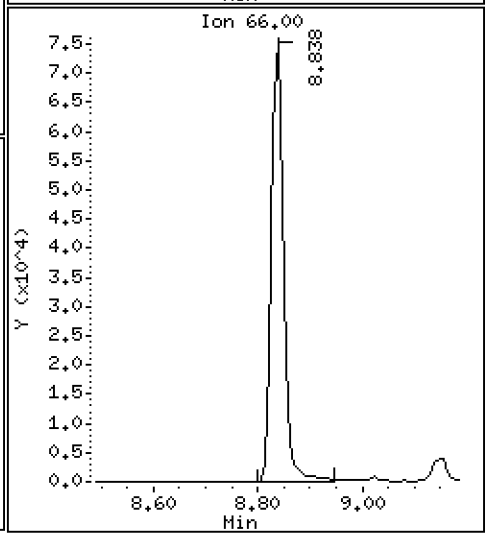












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

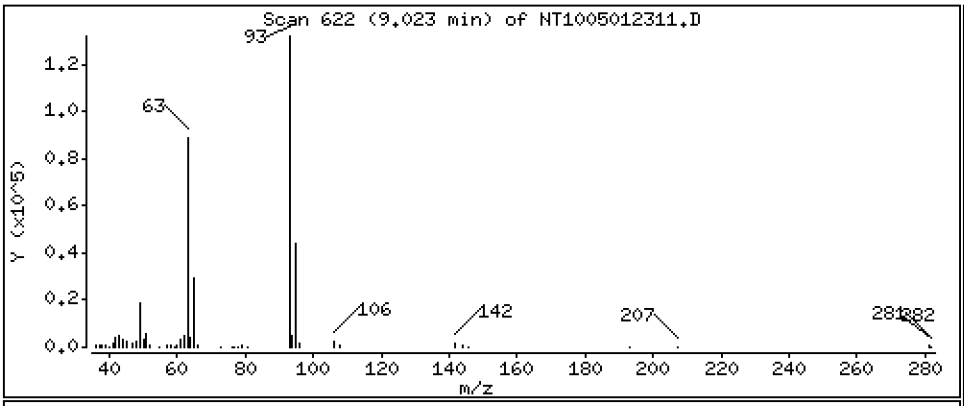
Operator: VTS

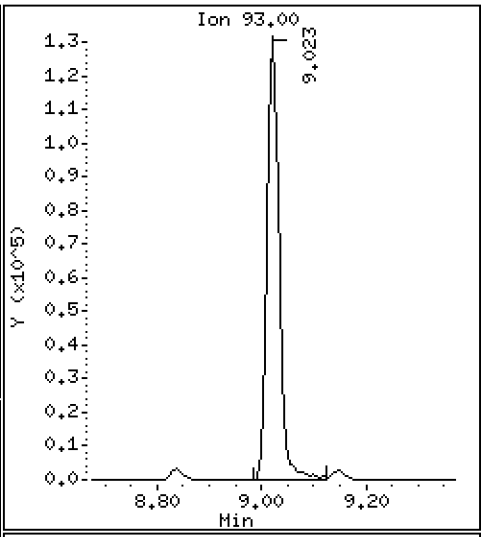
Column phase: ZB-5msi

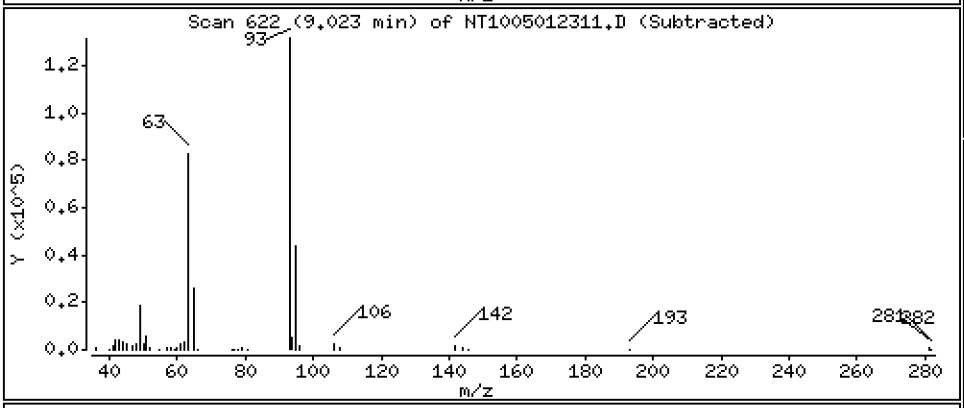
Column diameter: 0.25

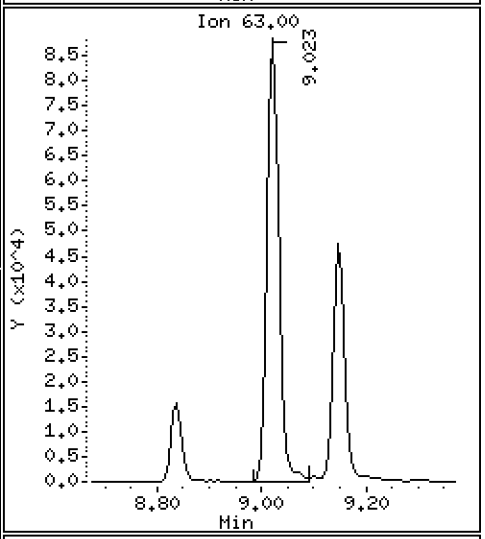
4 Bis(2-Chloroethyl)ether

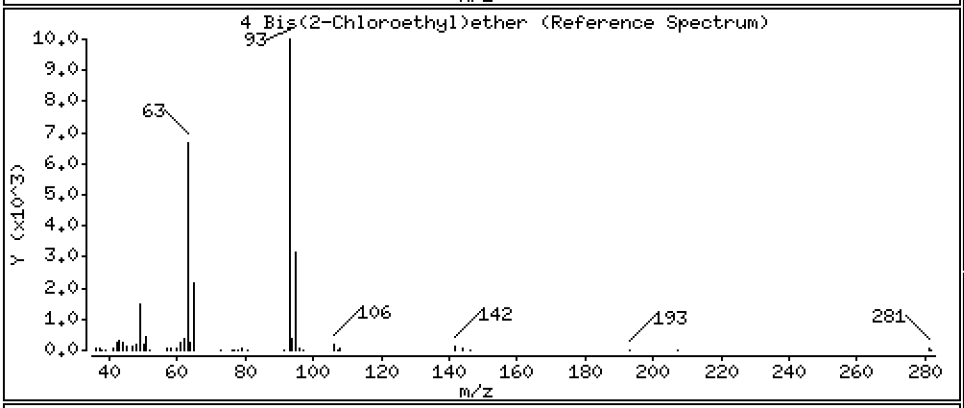
Concentration: 5.502 ug/mL

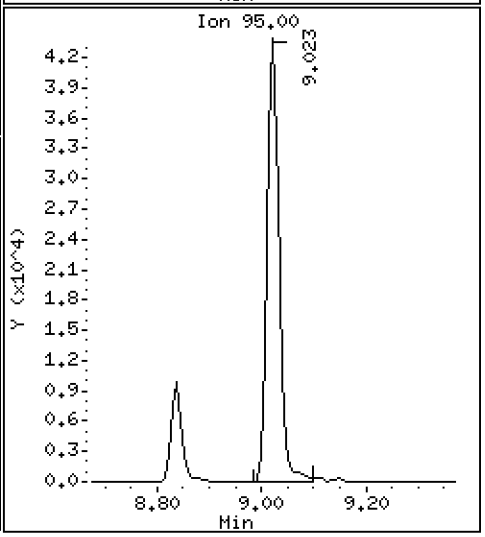


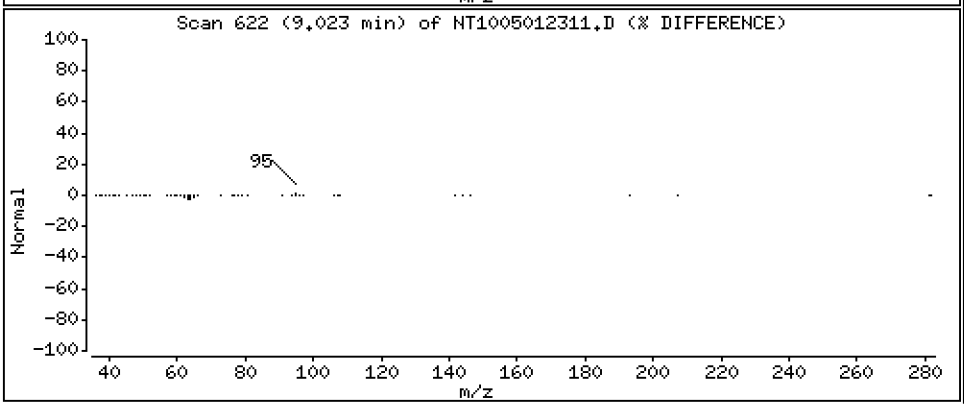












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

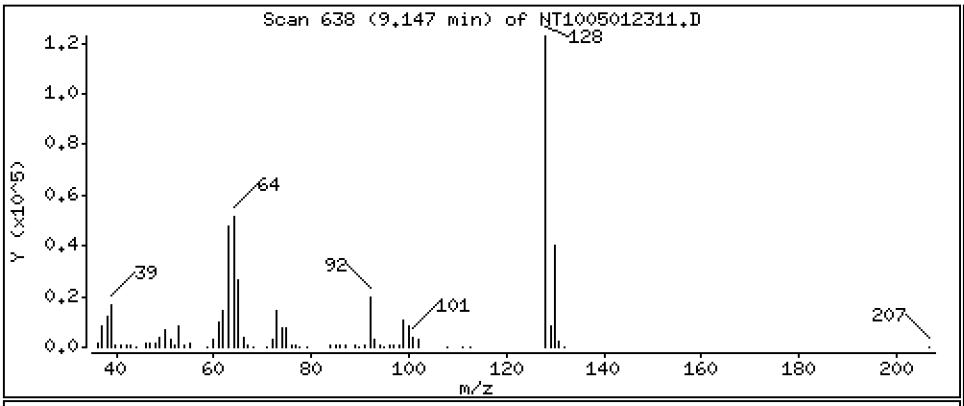
Operator: VTS

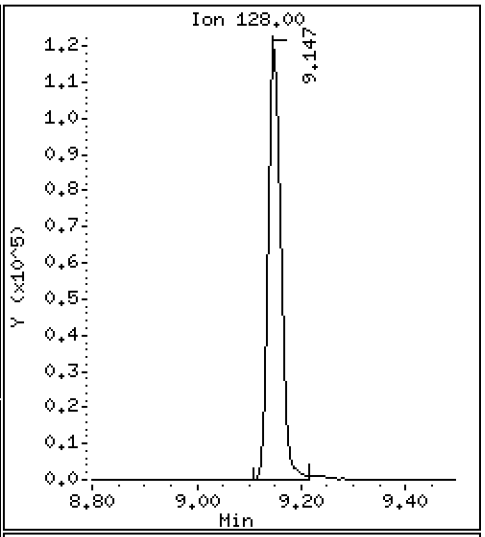
Column phase: ZB-5msi

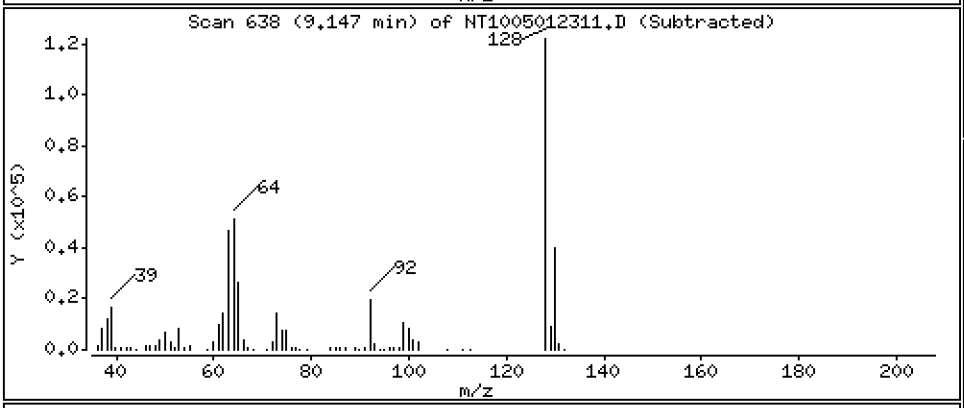
Column diameter: 0.25

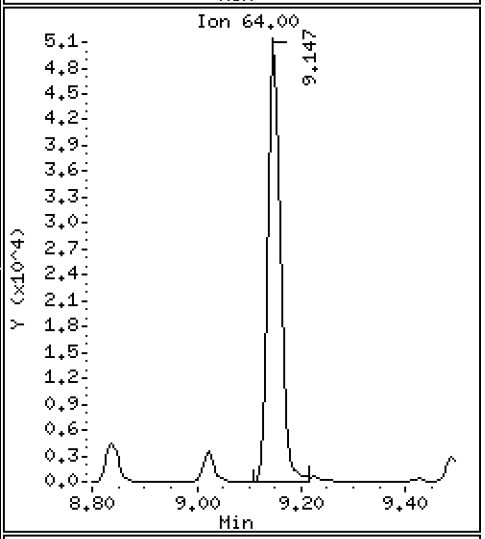
6 2-Chlorophenol

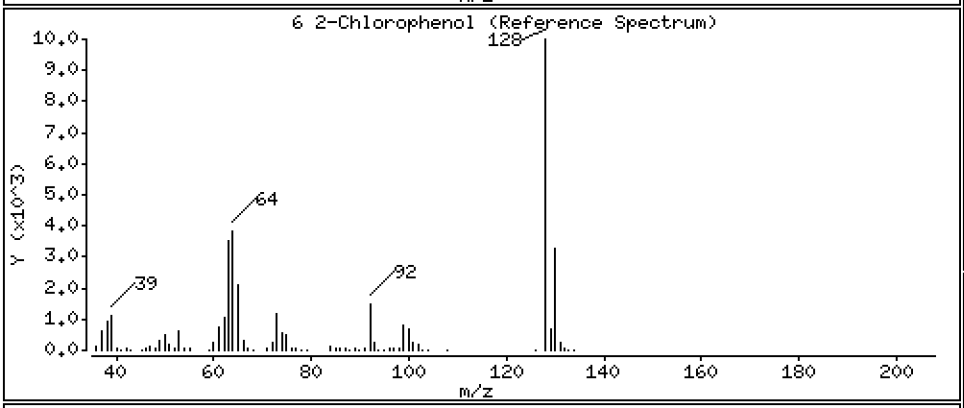
Concentration: 4.456 ug/mL

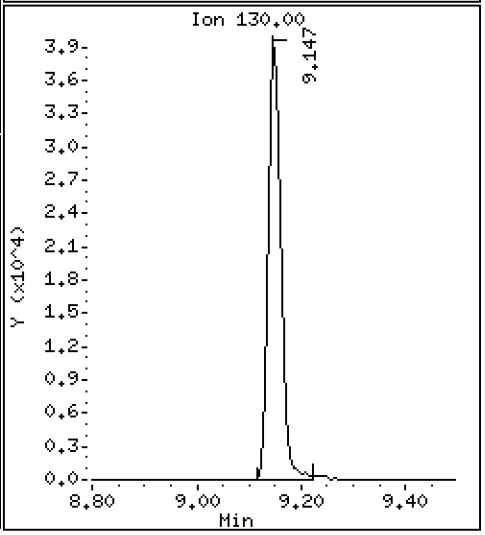


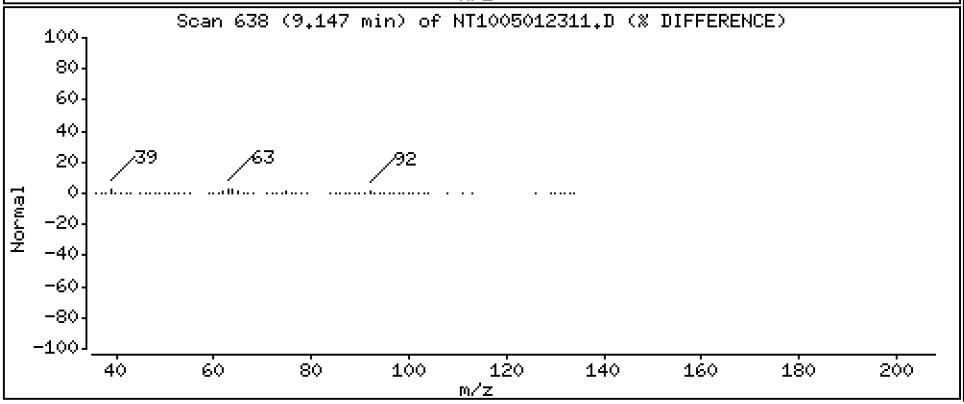












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

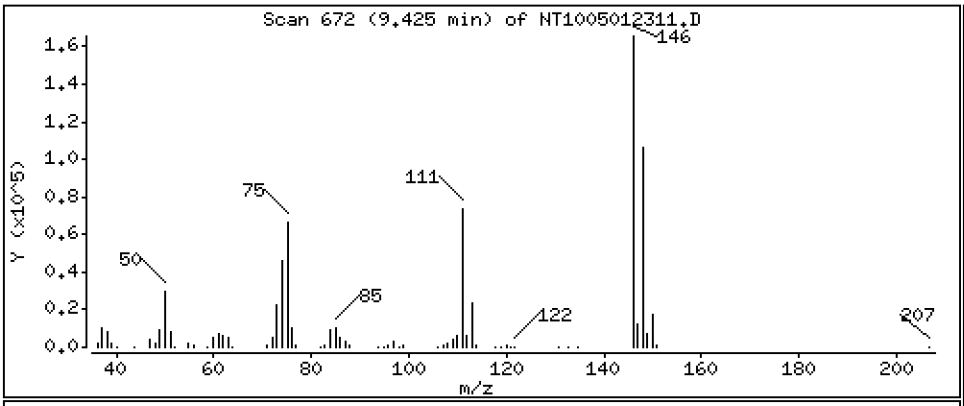
Operator: VTS

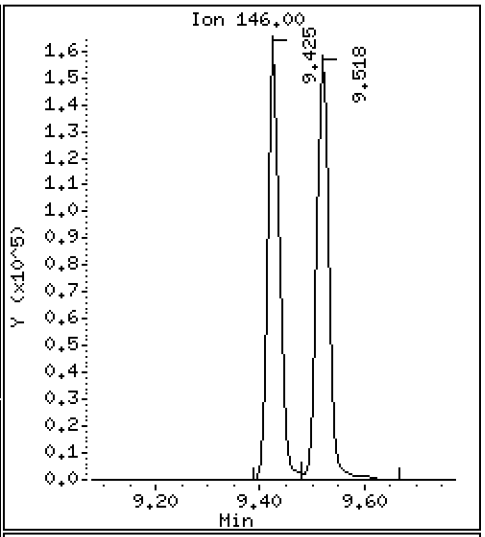
Column phase: ZB-5msi

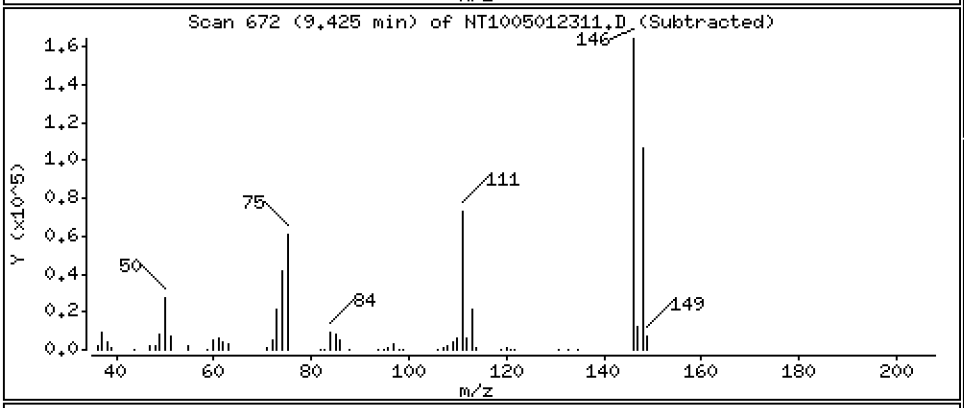
Column diameter: 0.25

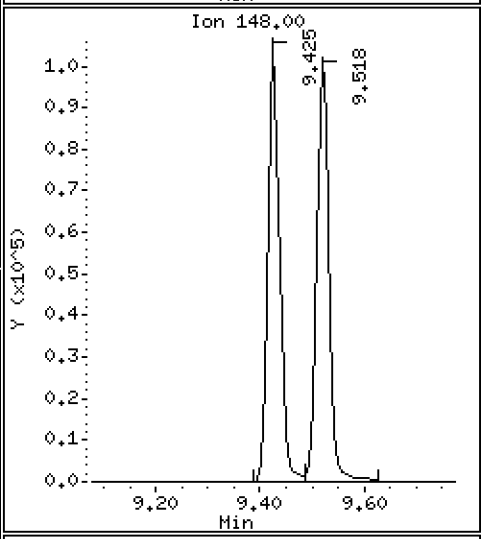
7 1,3-Dichlorobenzene

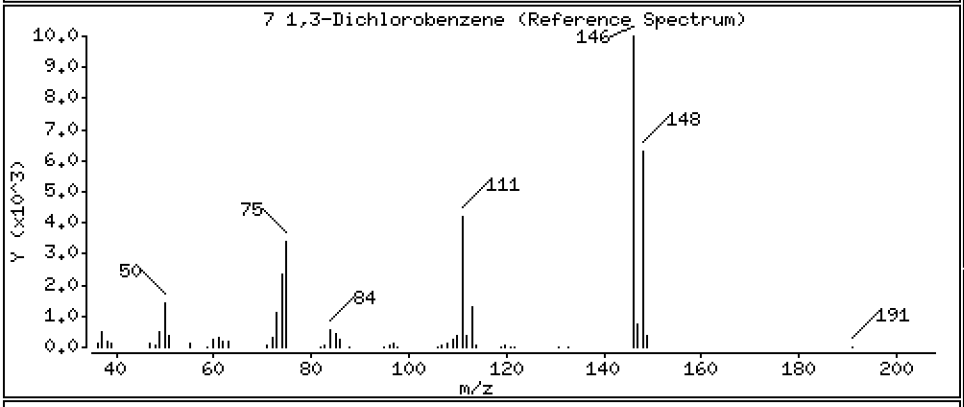
Concentration: 4.939 ug/mL

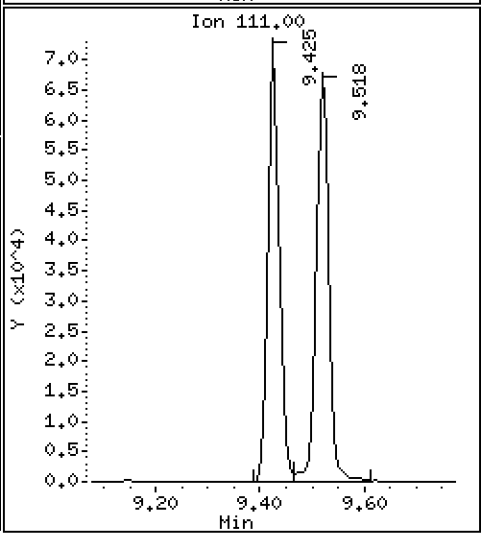


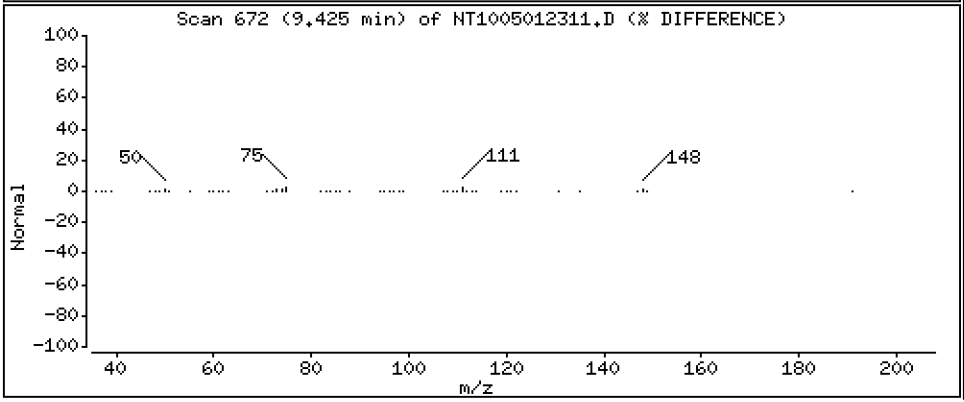












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

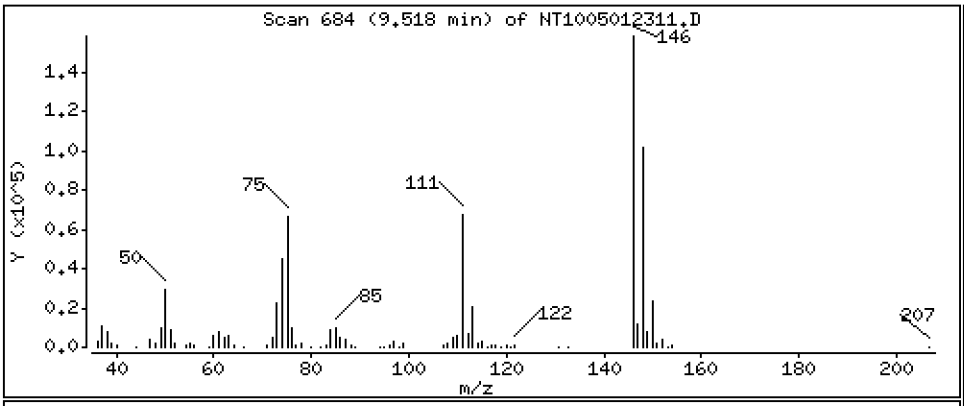
Operator: VTS

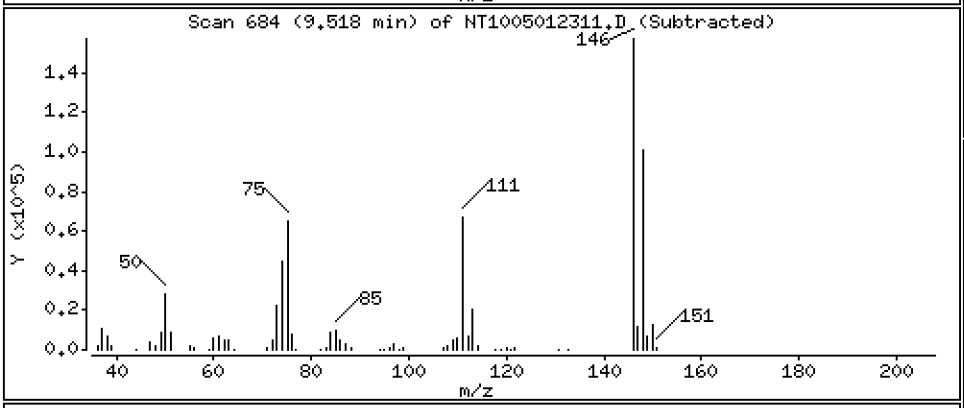
Column phase: ZB-5msi

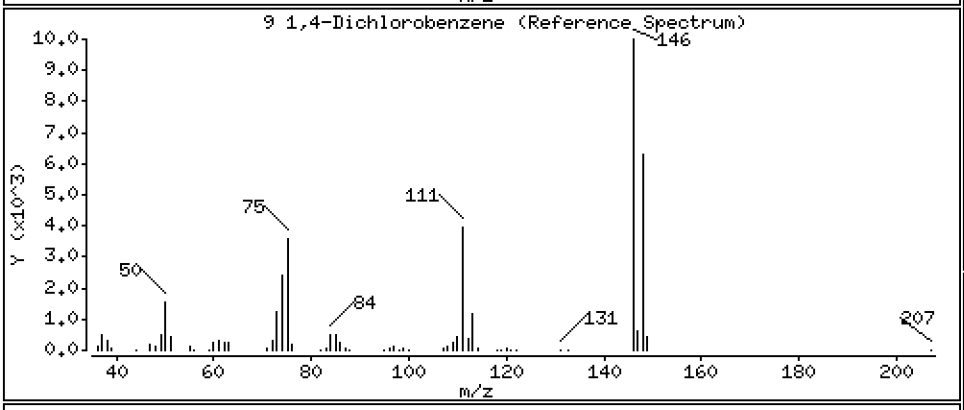
Column diameter: 0.25

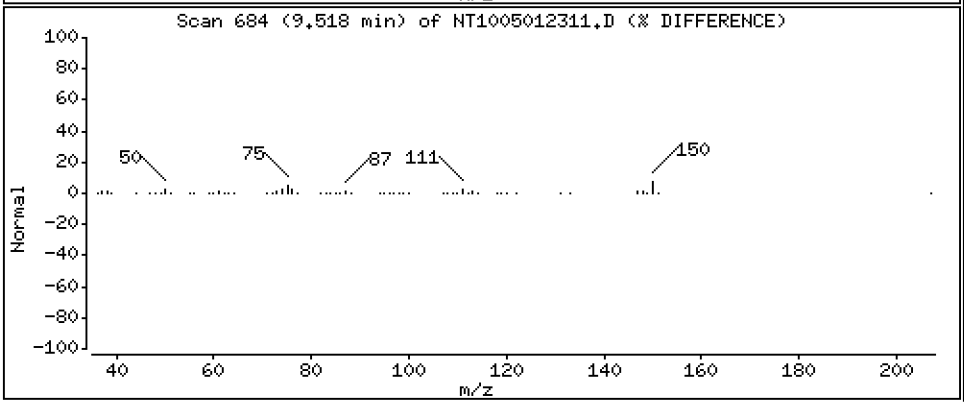
9 1,4-Dichlorobenzene

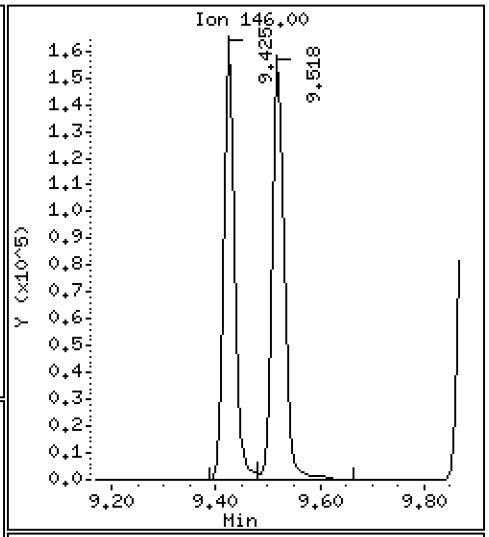
Concentration: 5.492 ug/mL

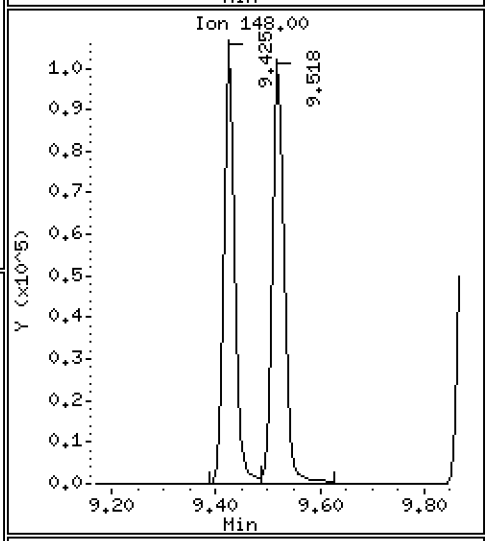


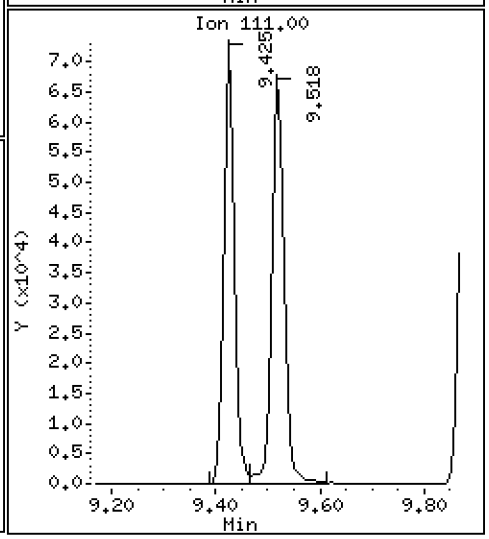












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

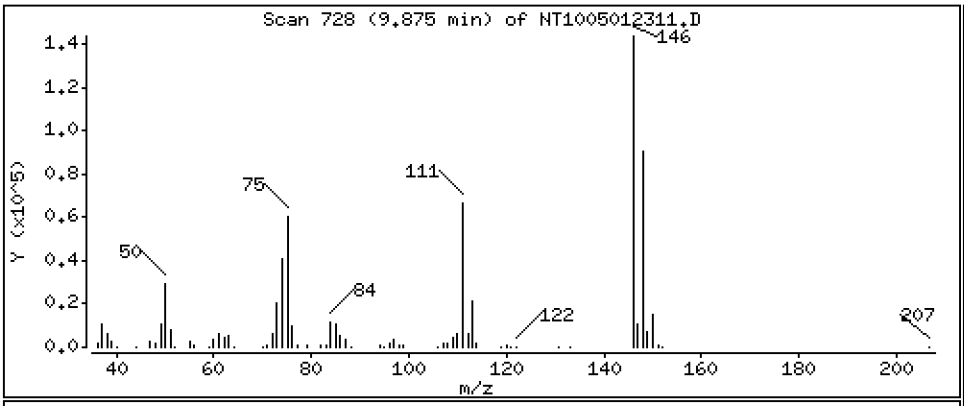
Operator: VTS

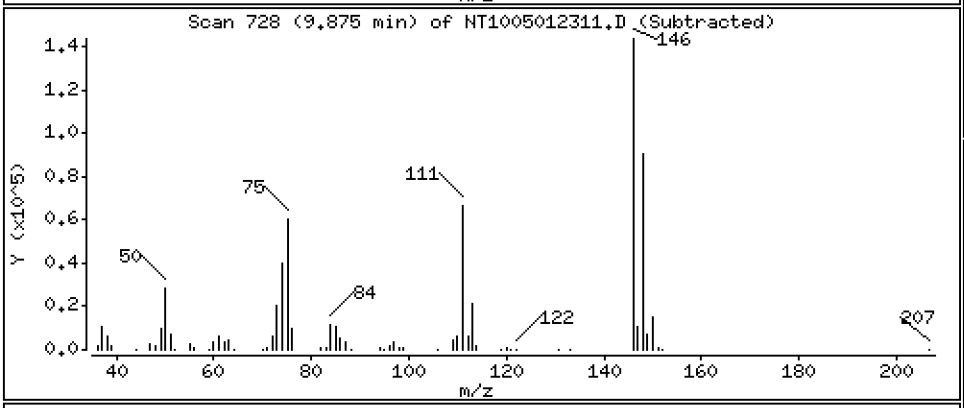
Column phase: ZB-5msi

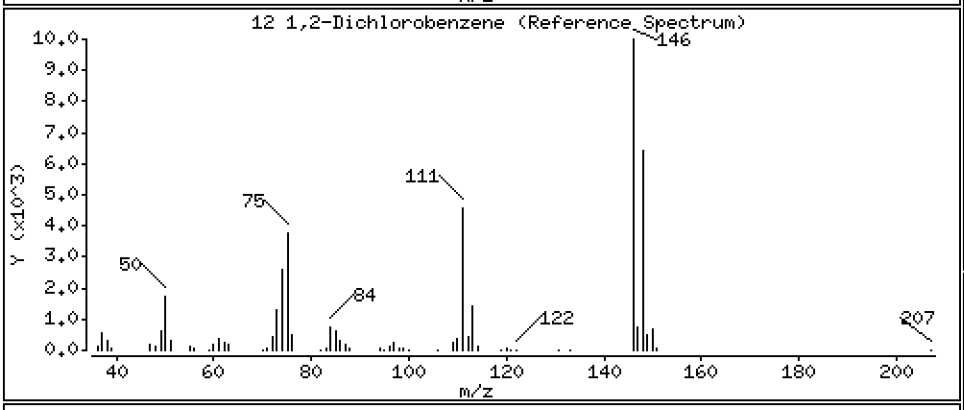
Column diameter: 0.25

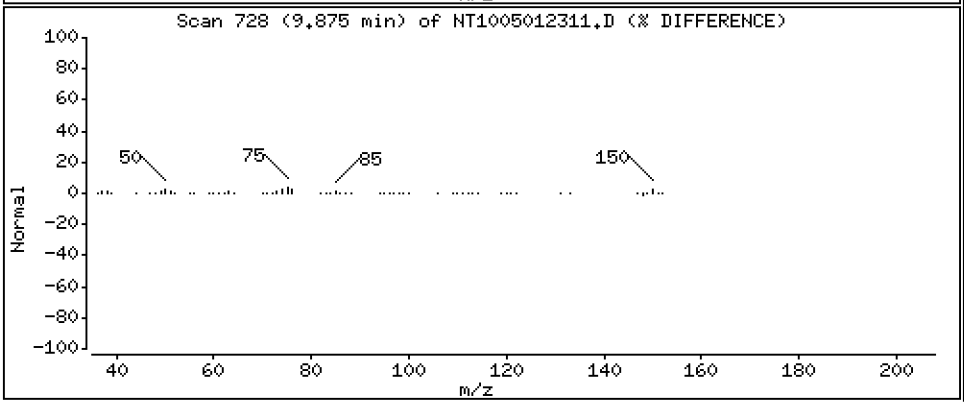
12 1,2-Dichlorobenzene

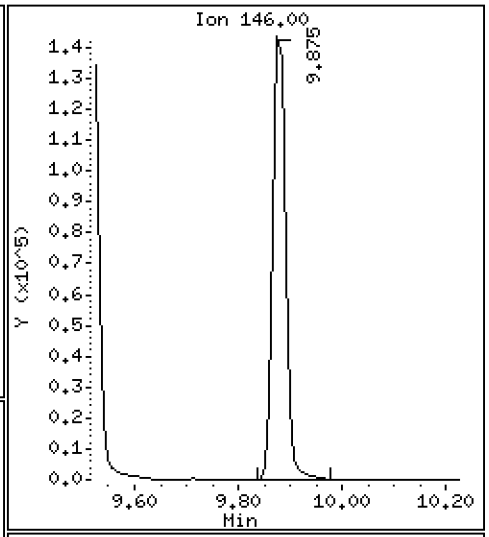
Concentration: 4.938 ug/mL

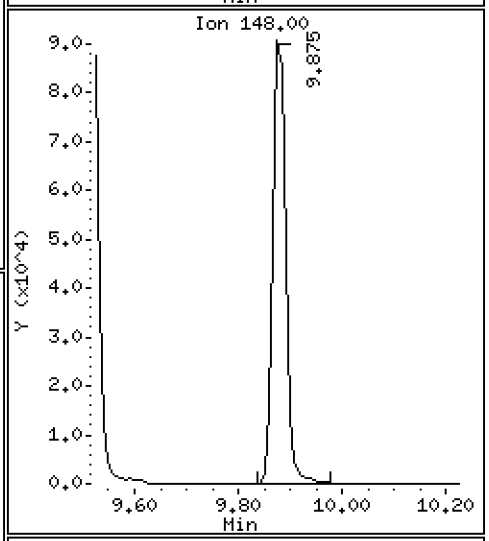


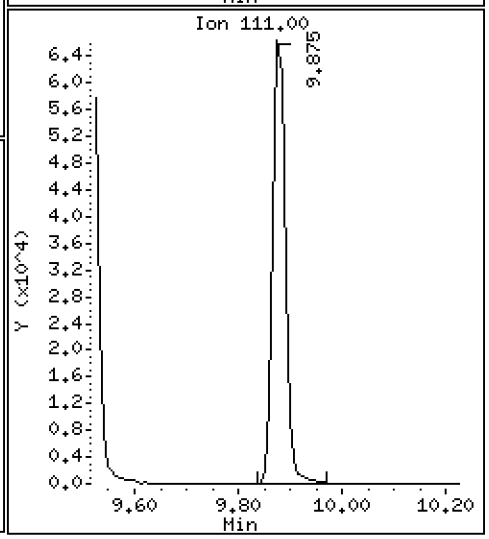












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

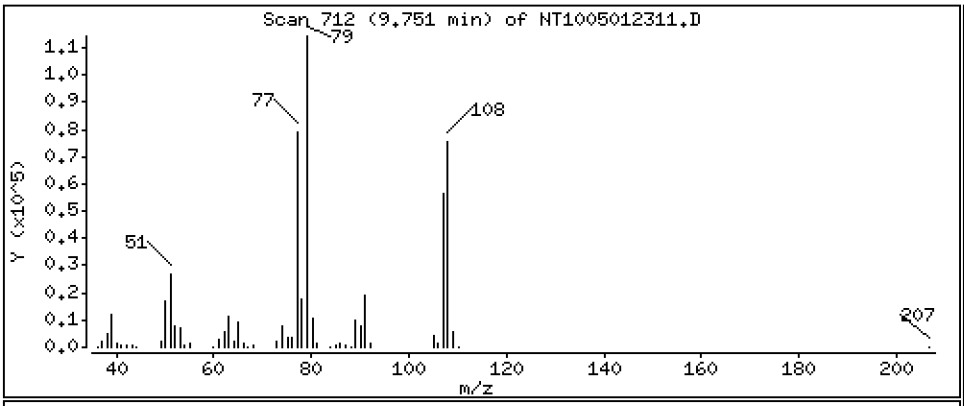
Operator: VTS

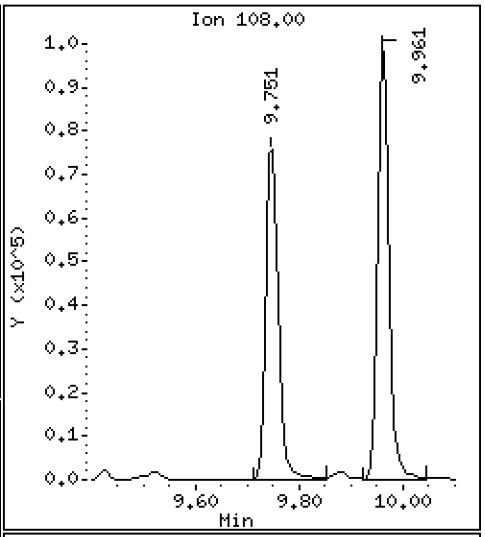
Column phase: ZB-5msi

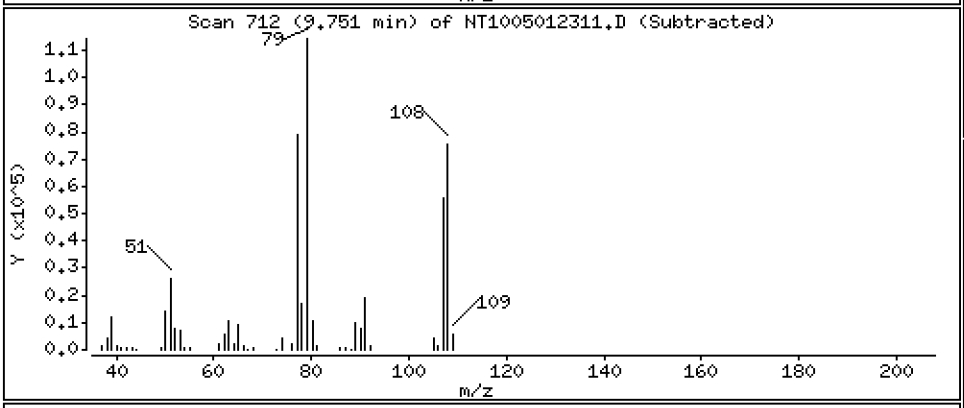
Column diameter: 0.25

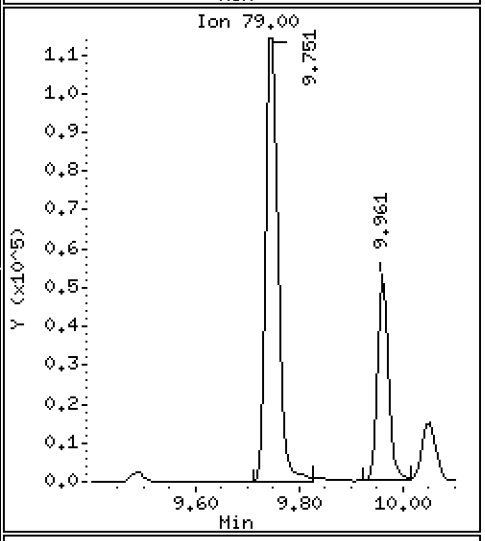
11 Benzyl alcohol

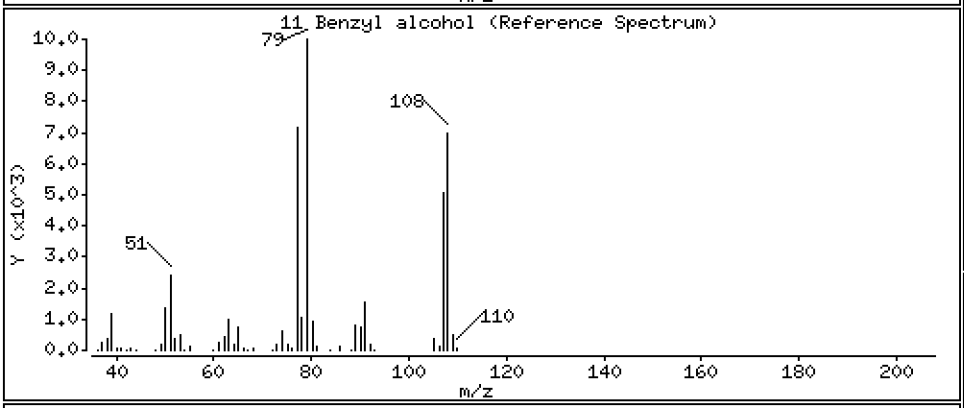
Concentration: 5.069 ug/mL

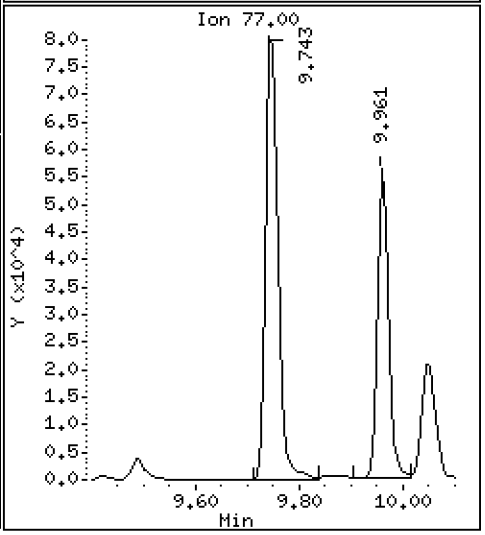


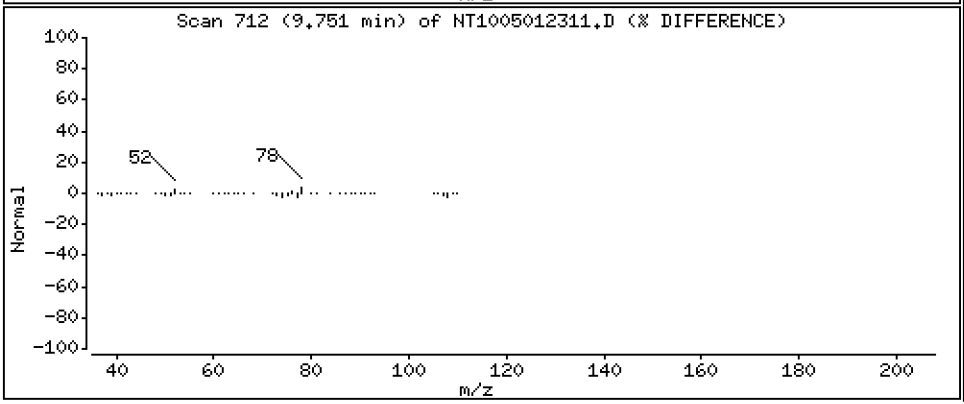












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

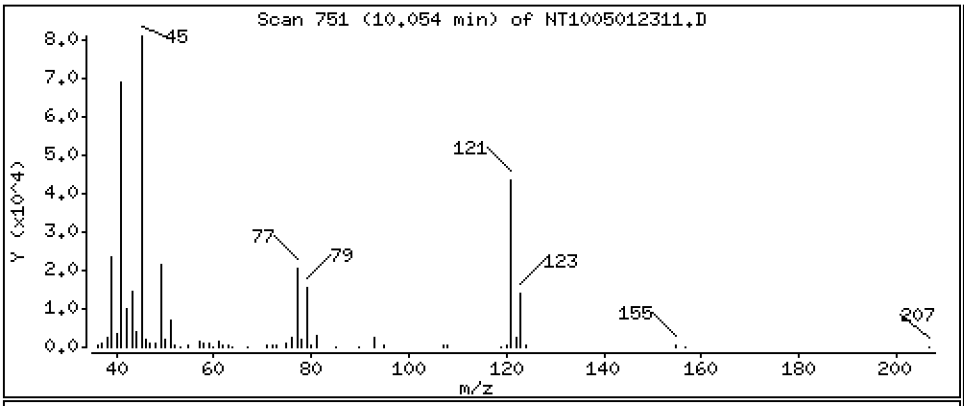
Operator: VTS

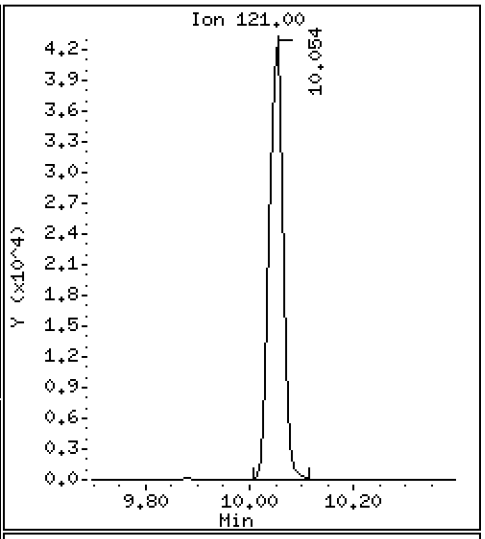
Column phase: ZB-5msi

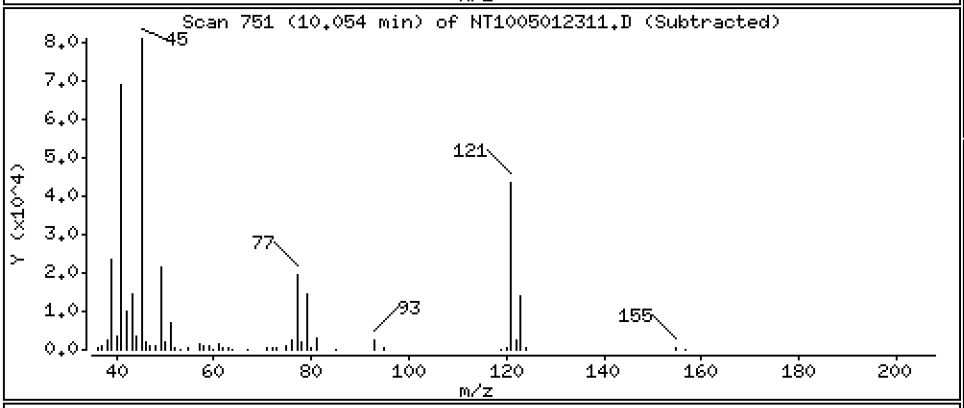
Column diameter: 0.25

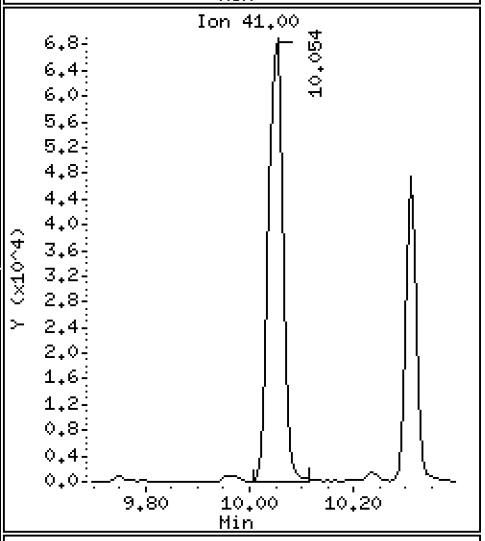
14 2,2'-oxybis(1-Chloropropane)

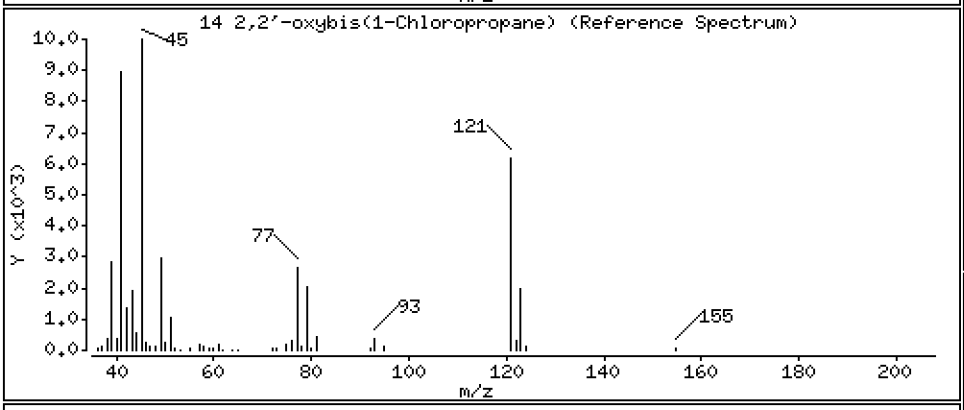
Concentration: 5.603 ug/mL

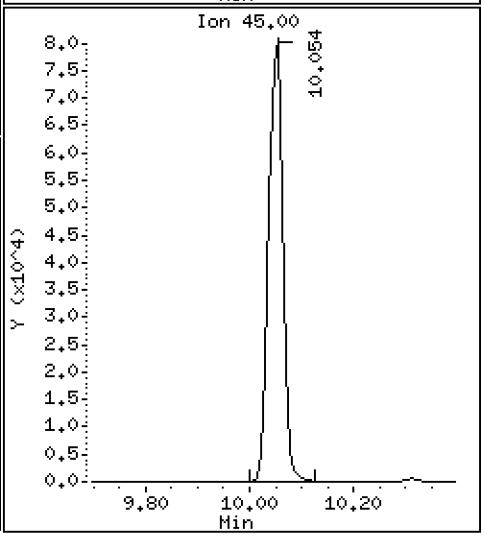


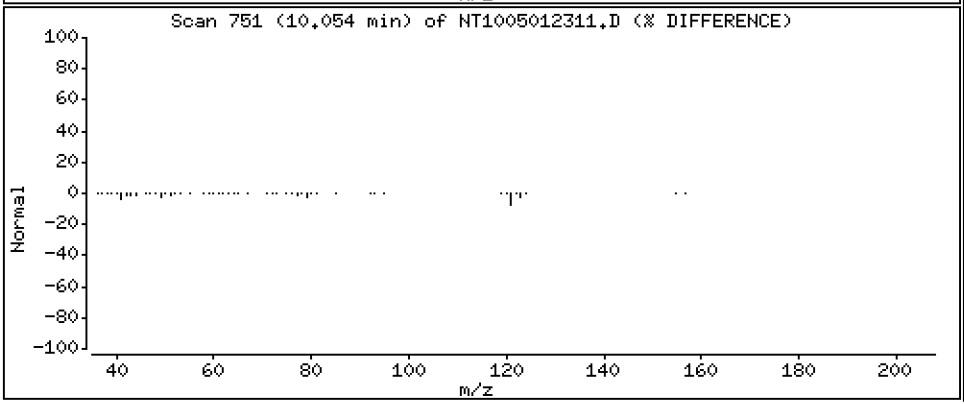












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

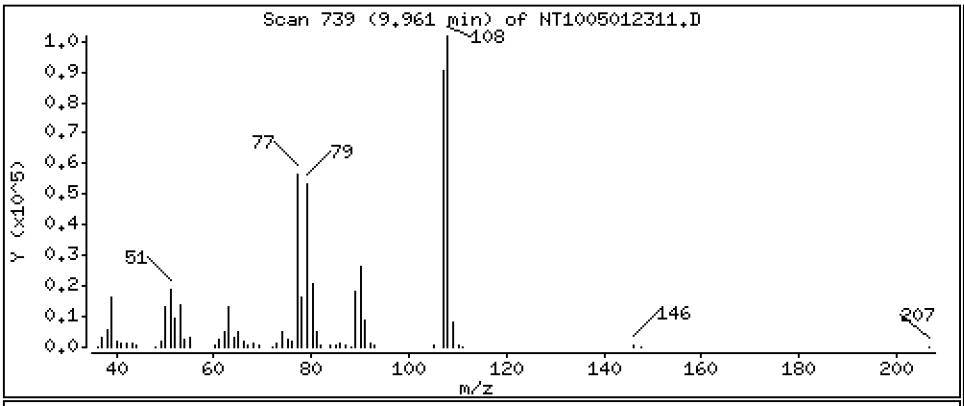
Operator: VTS

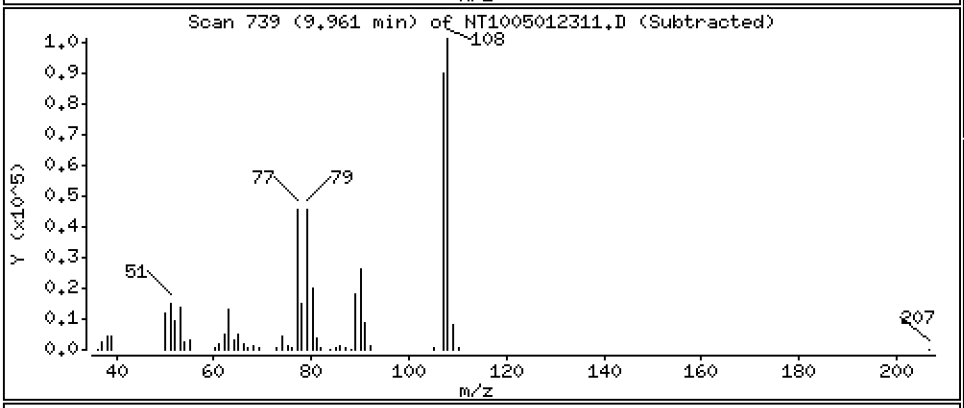
Column phase: ZB-5msi

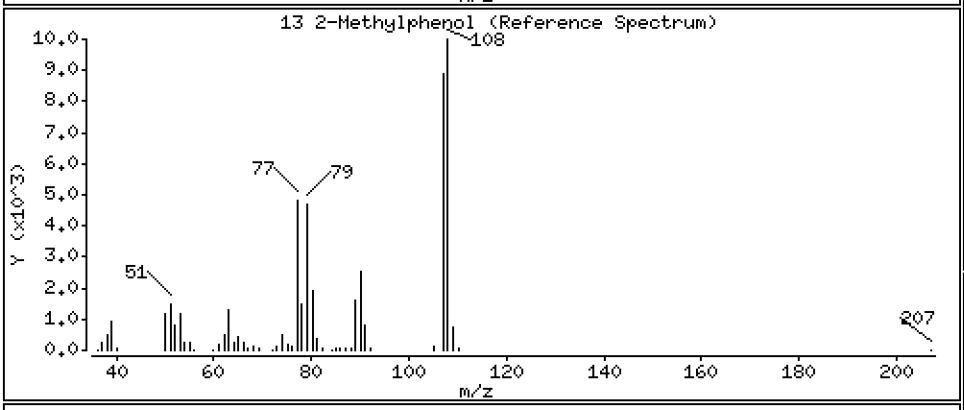
Column diameter: 0.25

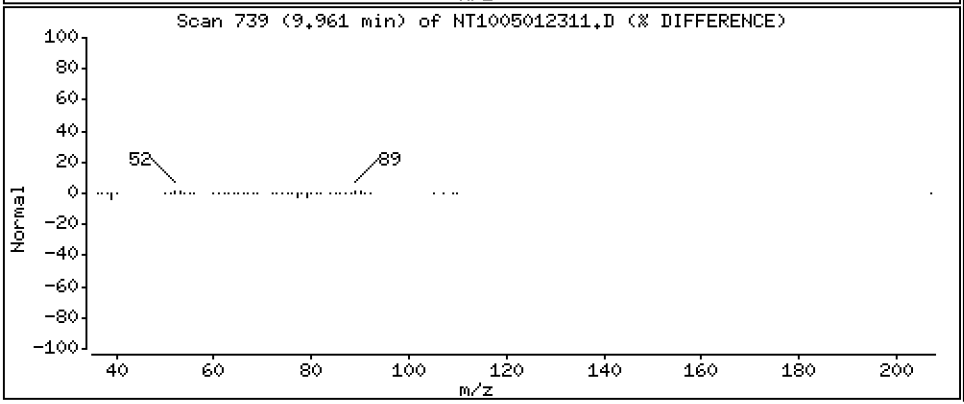
13 2-Methylphenol

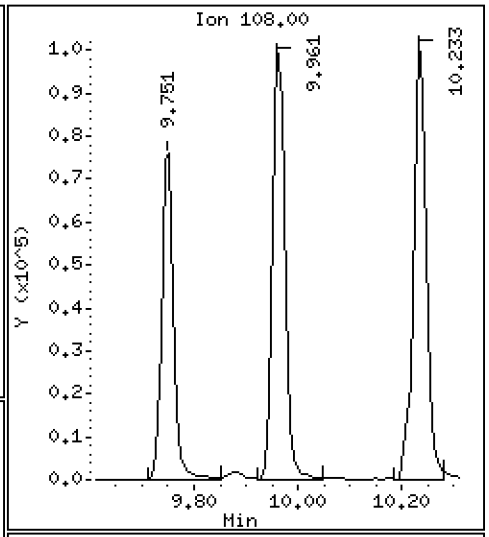
Concentration: 4.232 ug/mL

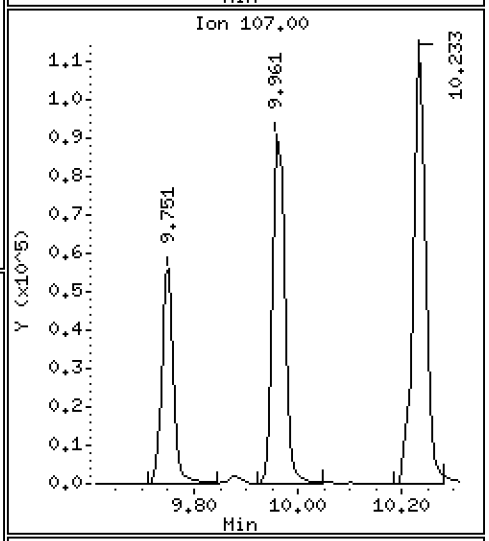


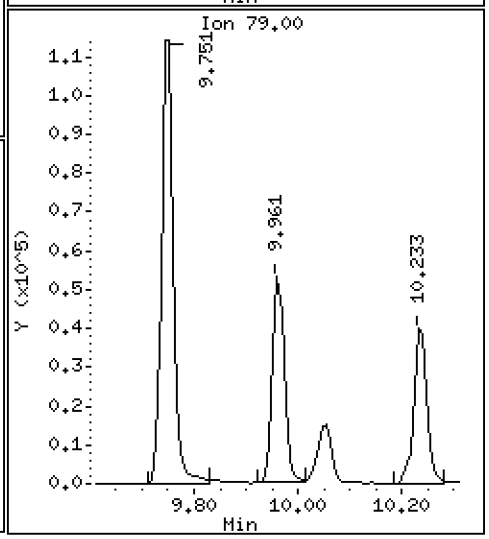












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

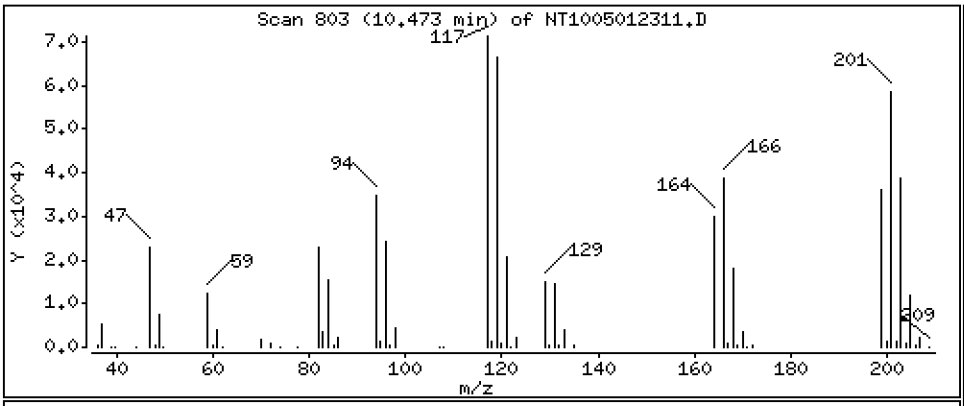
Operator: VTS

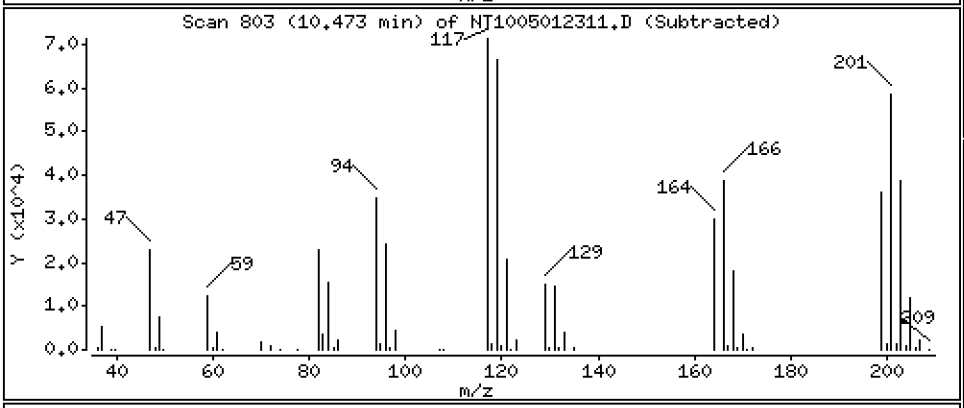
Column phase: ZB-5msi

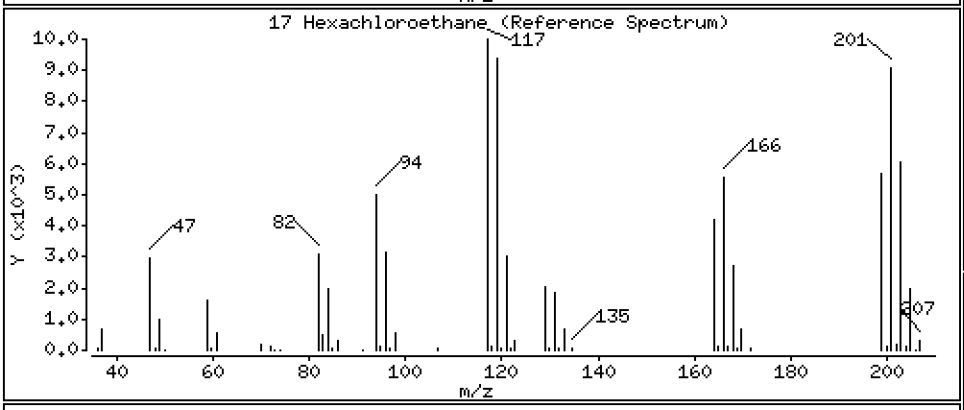
Column diameter: 0.25

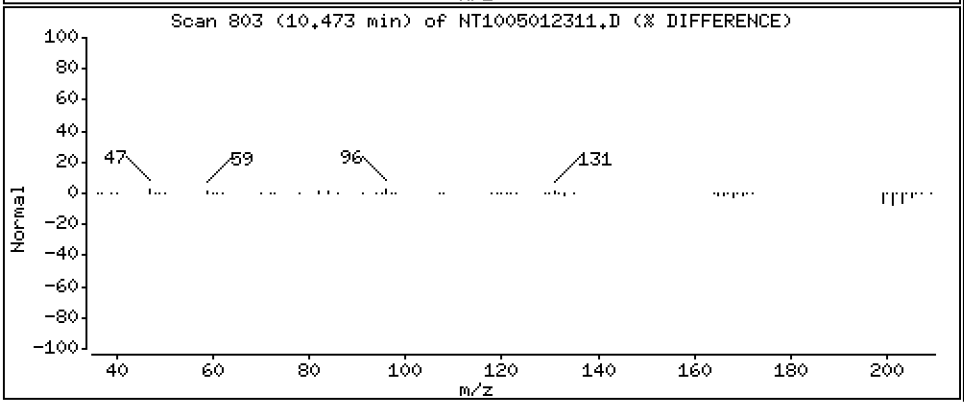
17 Hexachloroethane

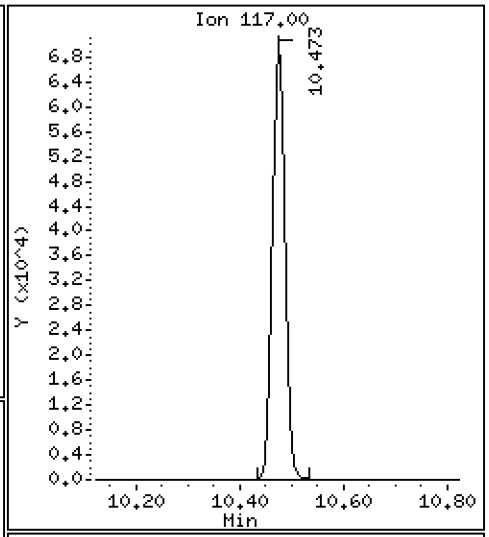
Concentration: 5.275 ug/mL

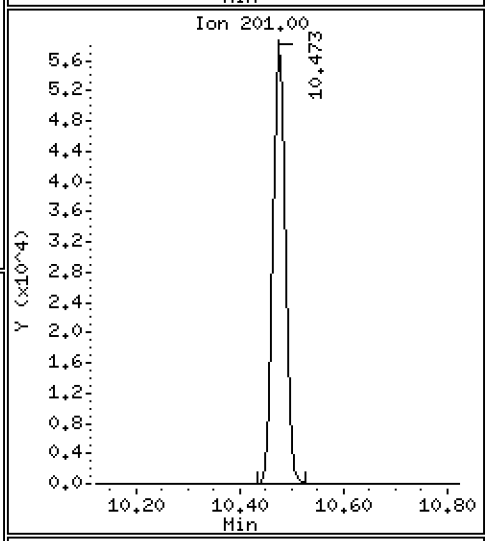


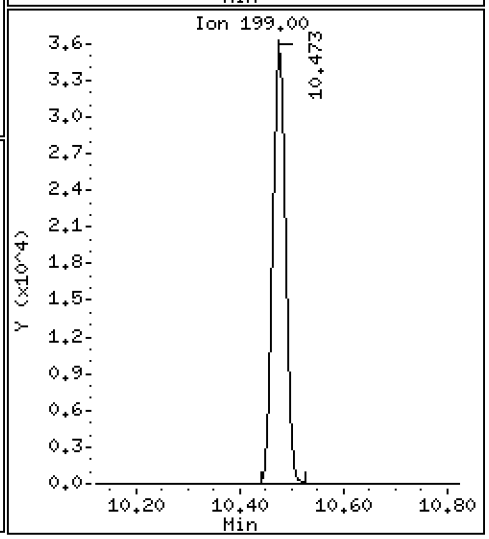












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

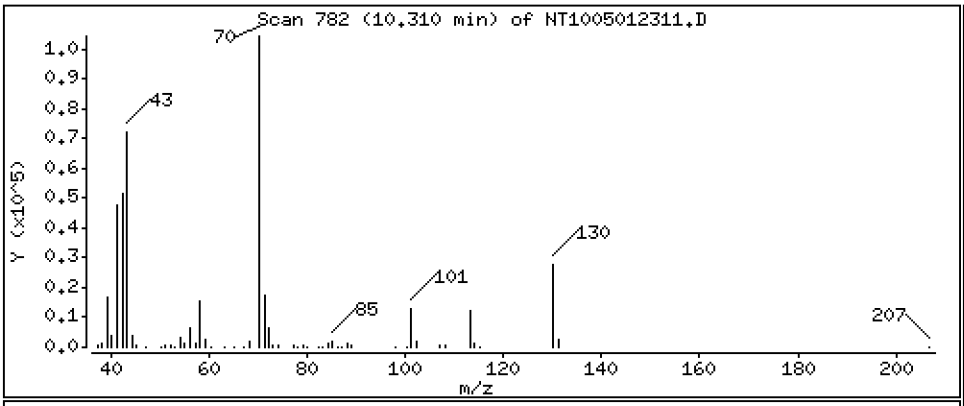
Operator: VTS

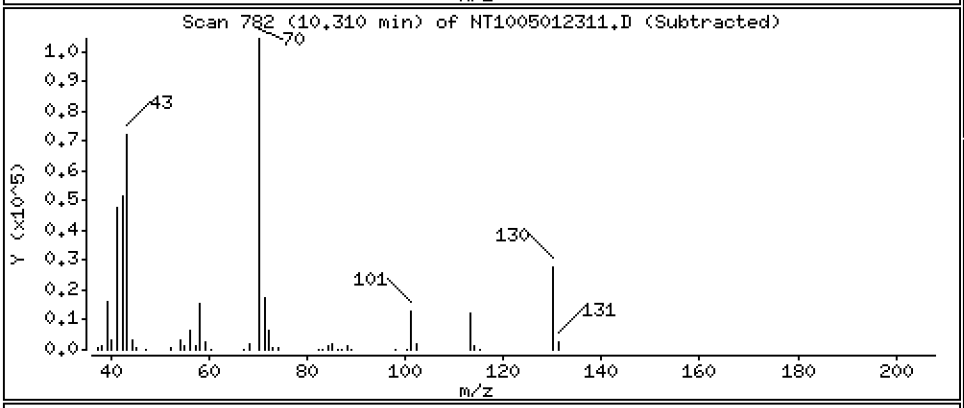
Column phase: ZB-5msi

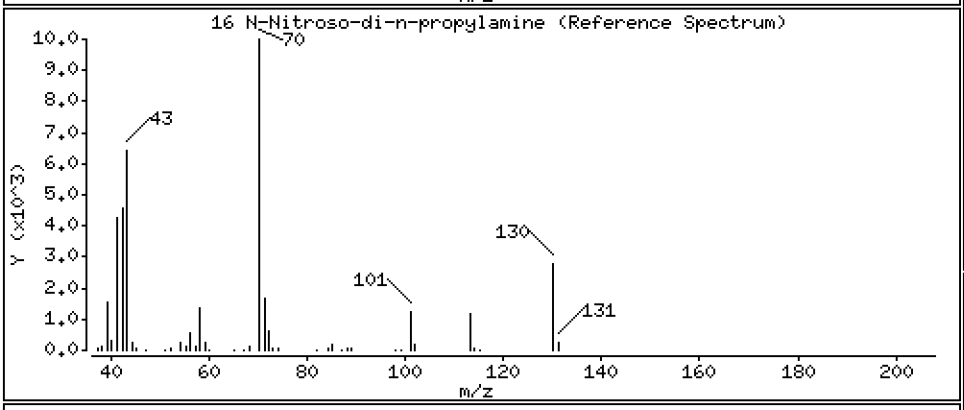
Column diameter: 0.25

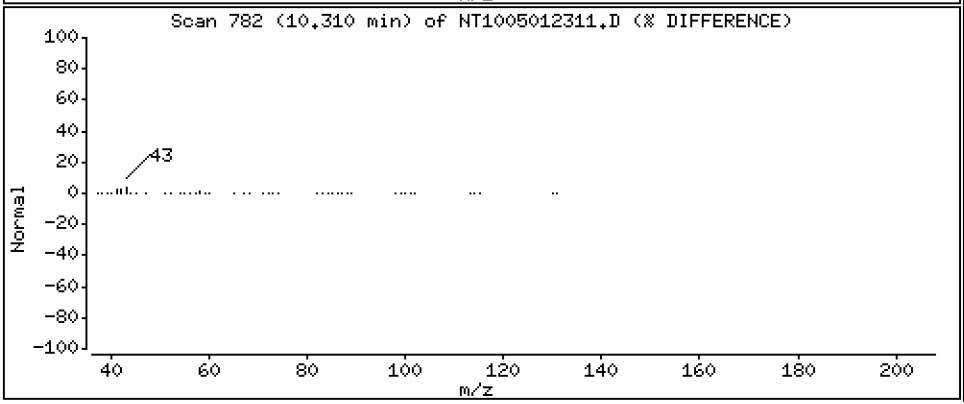
16 N-Nitroso-di-n-propylamine

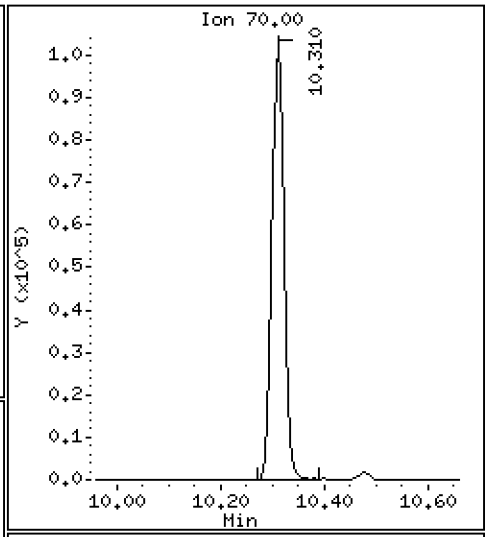
Concentration: 5.386 ug/mL

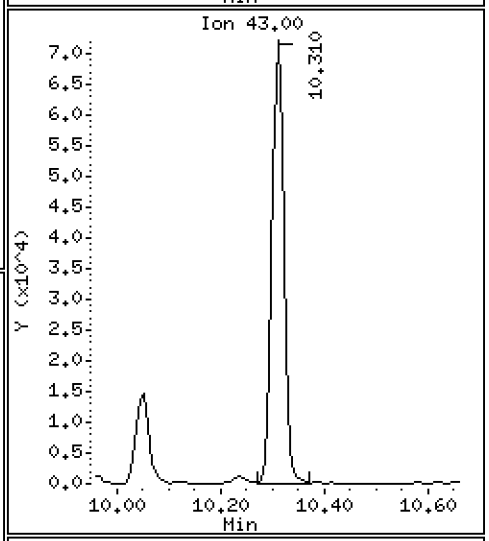


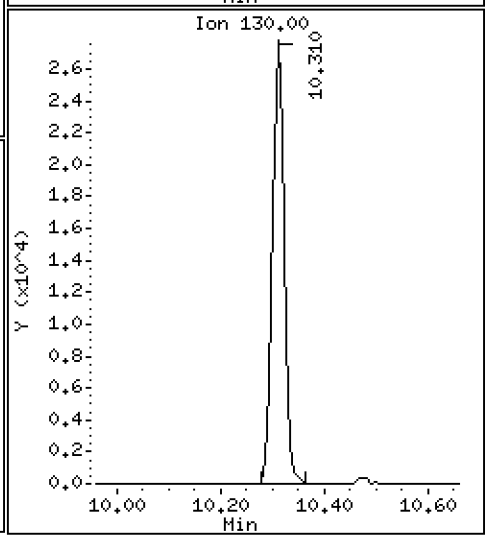












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

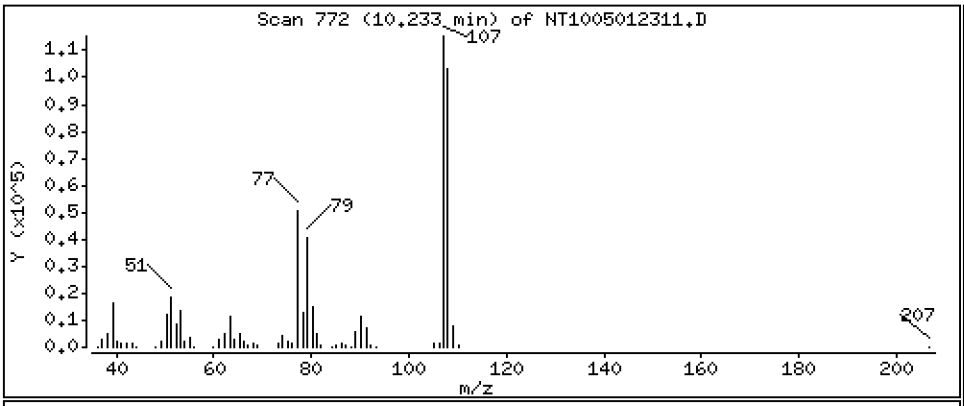
Operator: VTS

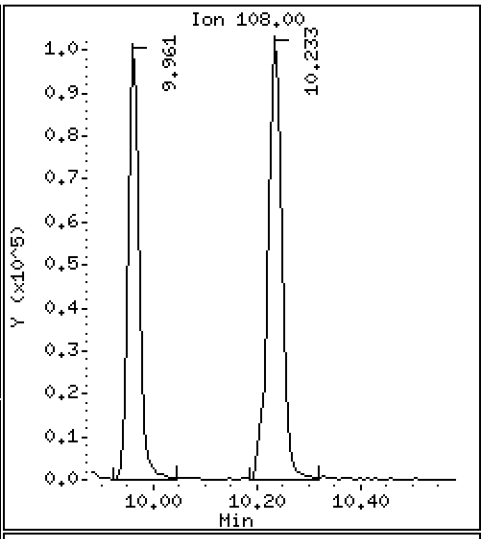
Column phase: ZB-5msi

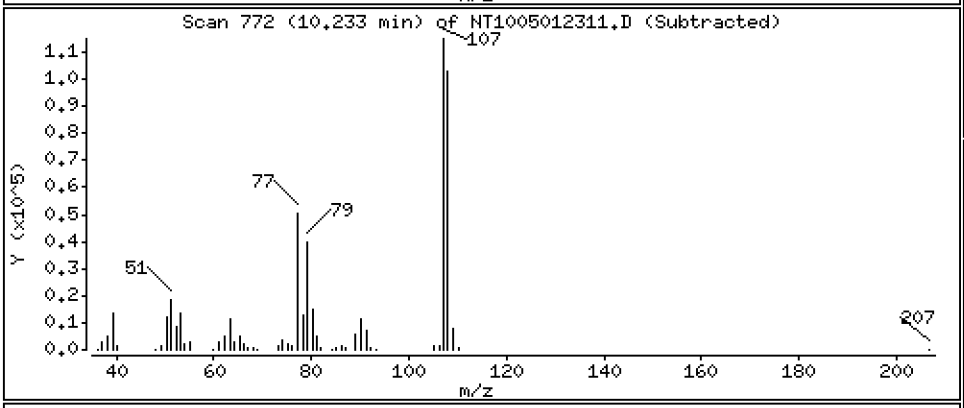
Column diameter: 0.25

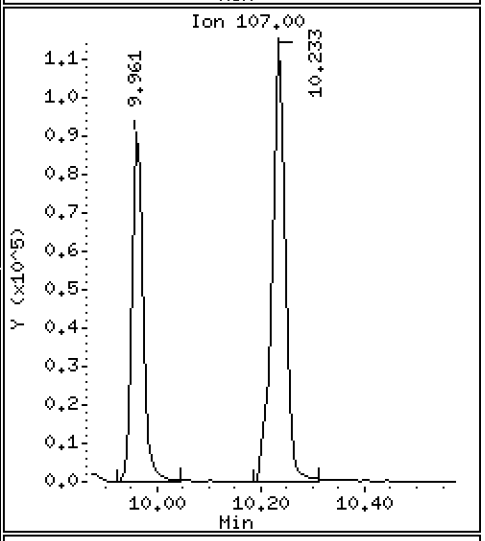
15 4-Methylphenol

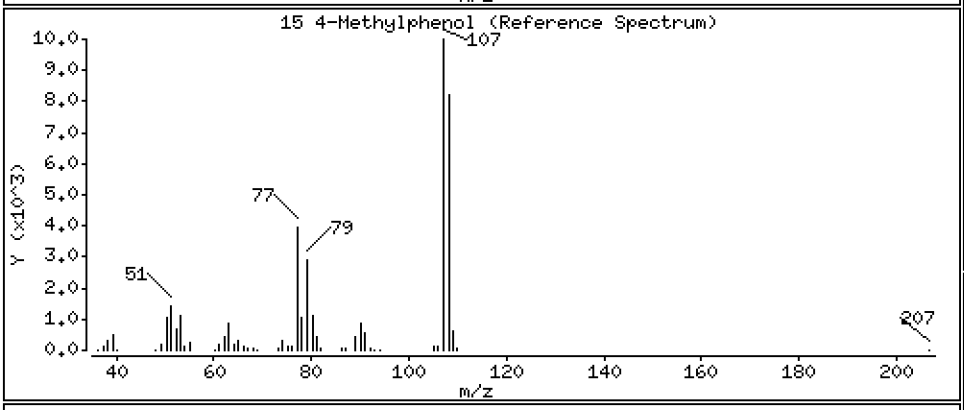
Concentration: 4.441 ug/mL

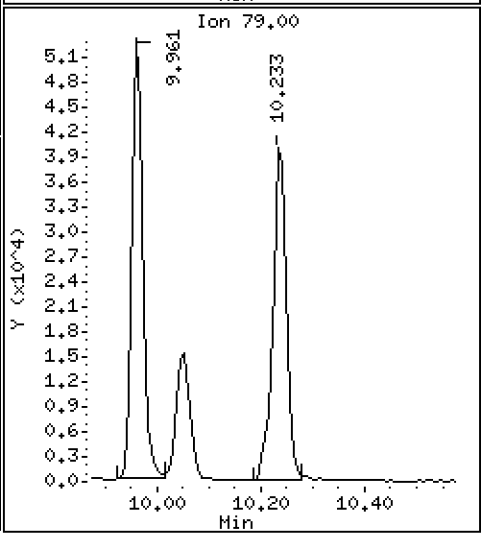


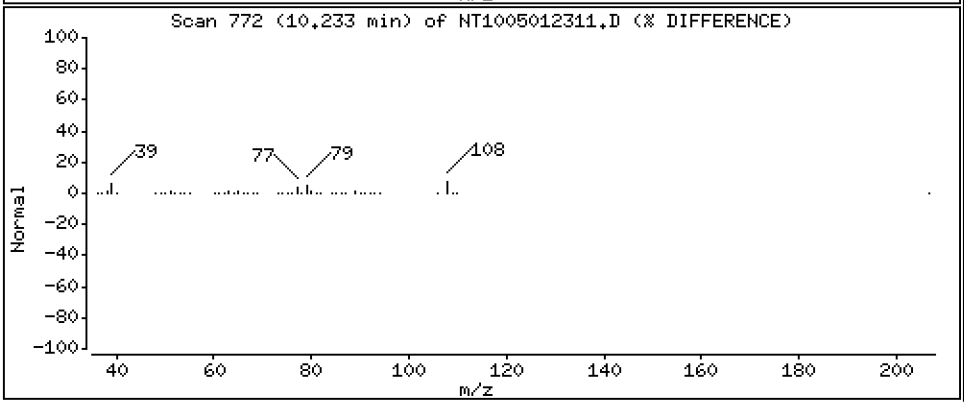












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

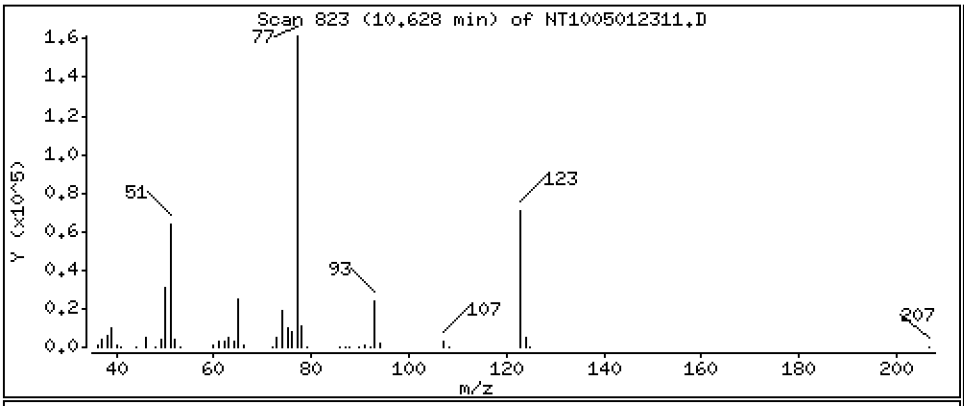
Operator: VTS

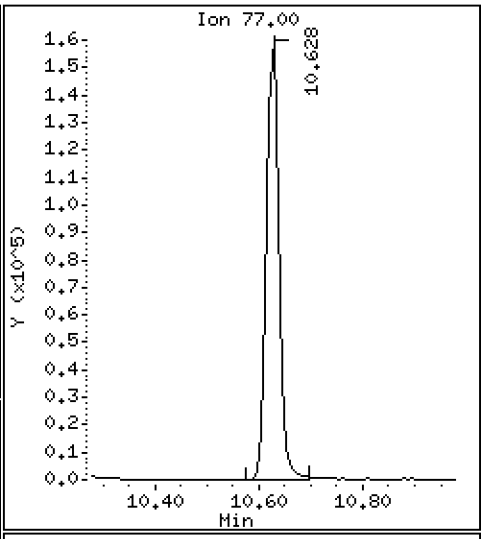
Column phase: ZB-5msi

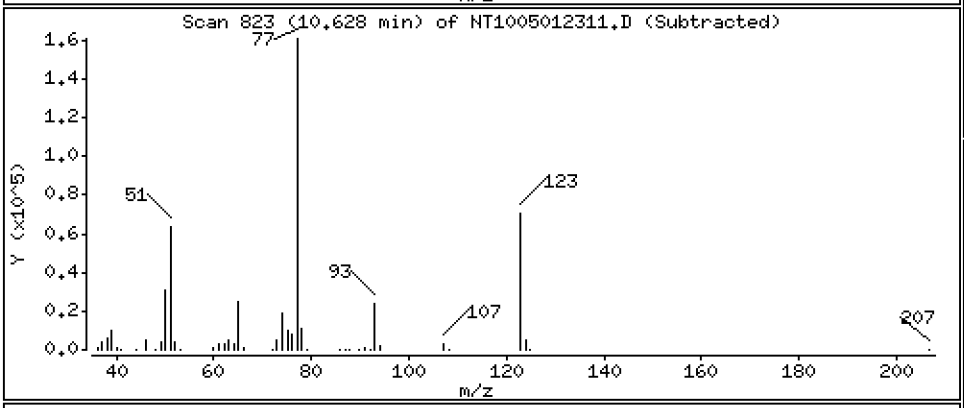
Column diameter: 0.25

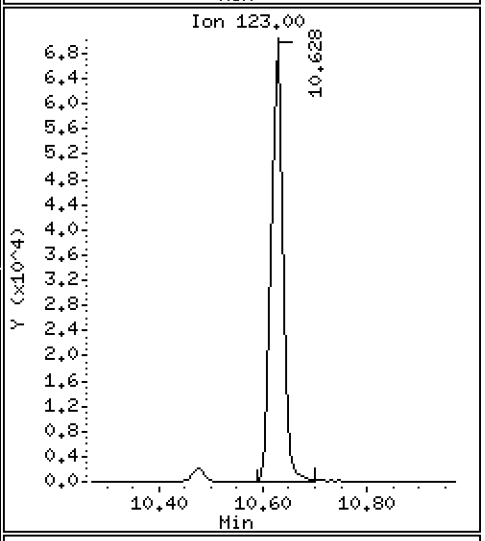
19 Nitrobenzene

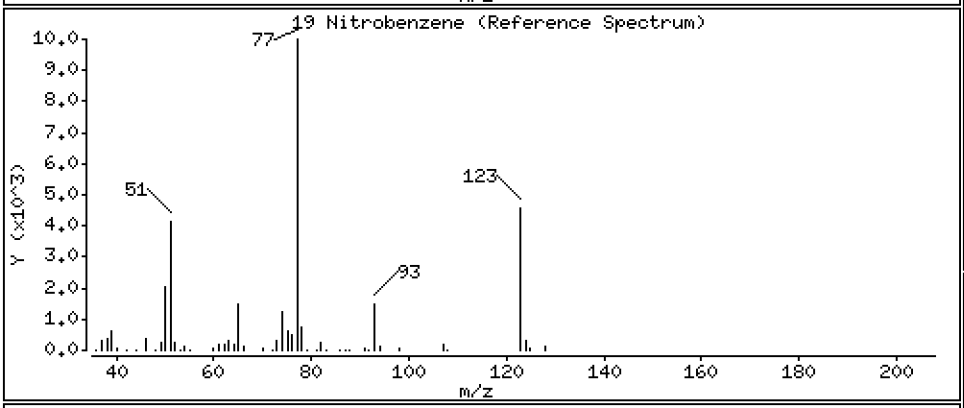
Concentration: 4.970 ug/mL

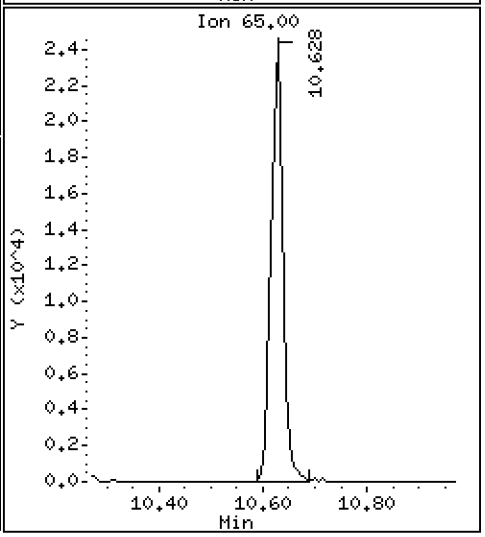


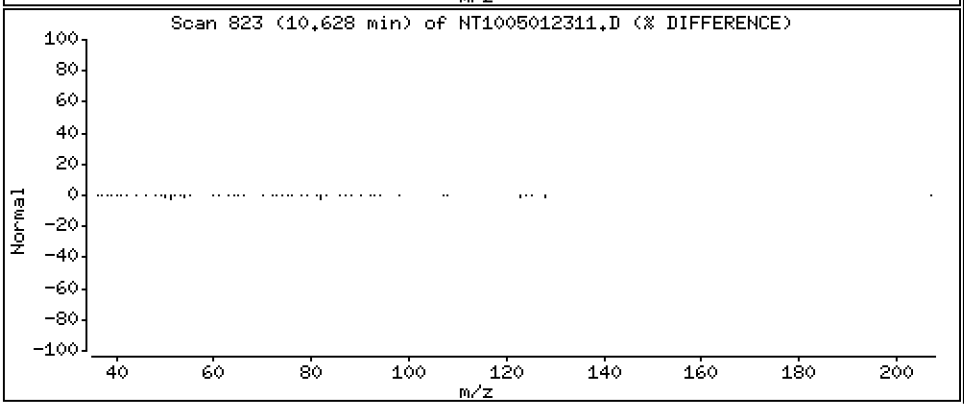












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

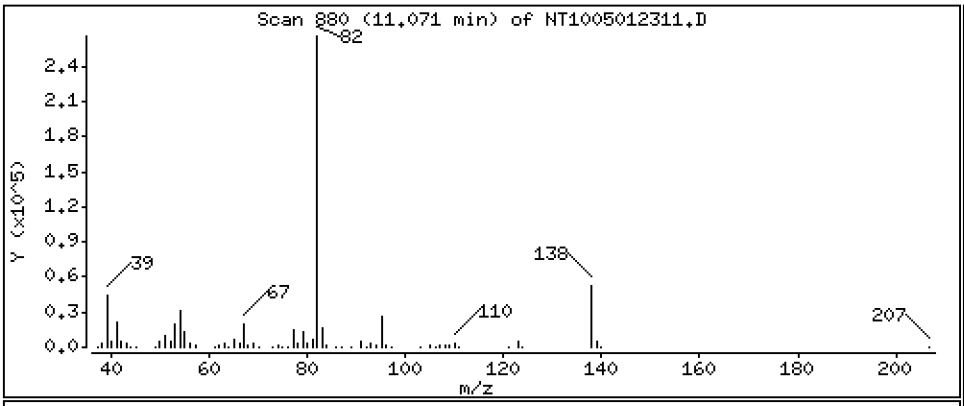
Operator: VTS

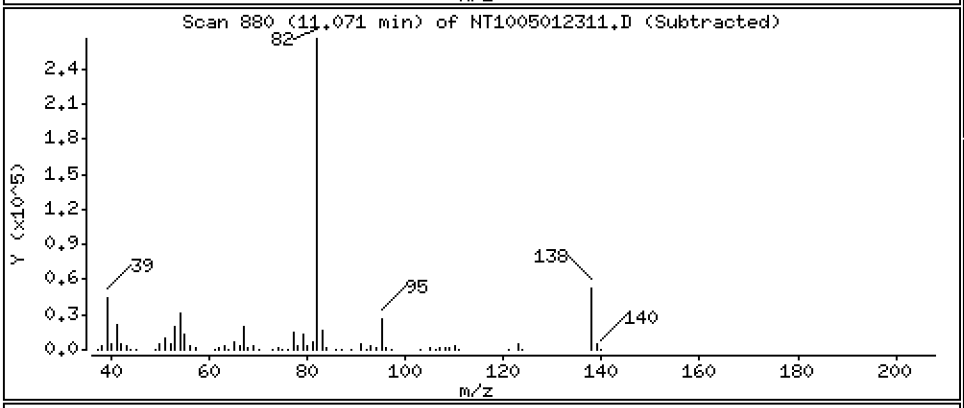
Column phase: ZB-5msi

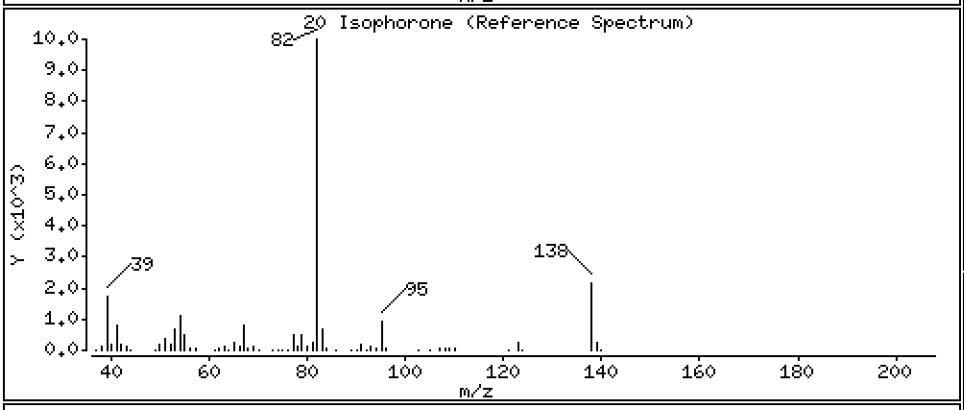
Column diameter: 0.25

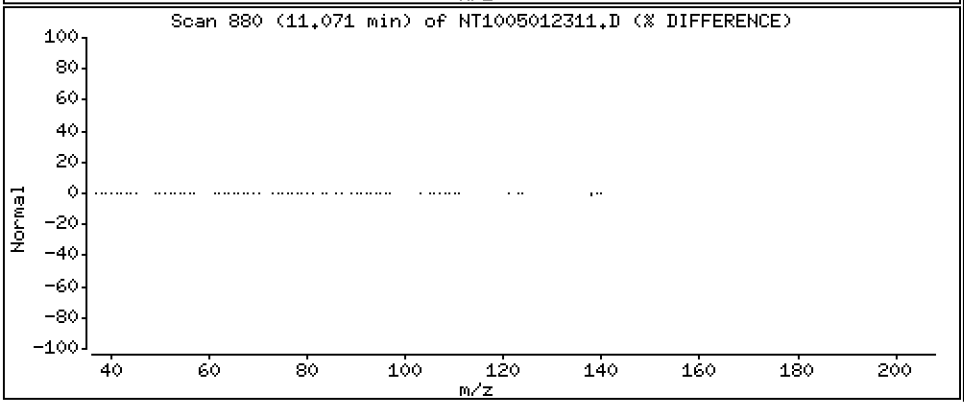
20 Isophorone

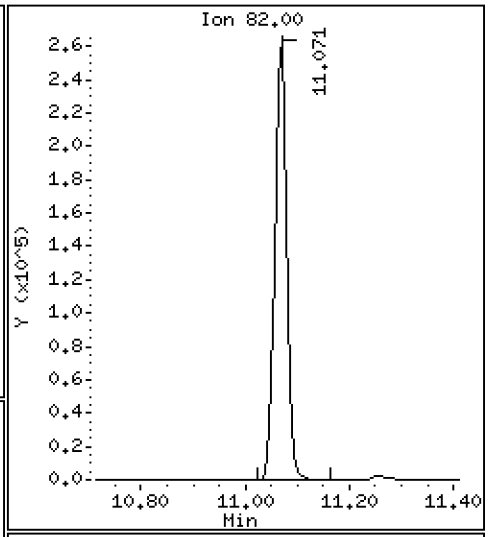
Concentration: 7.878 ug/mL

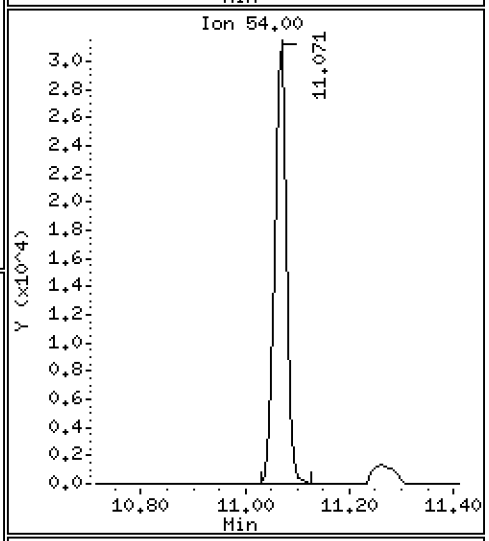


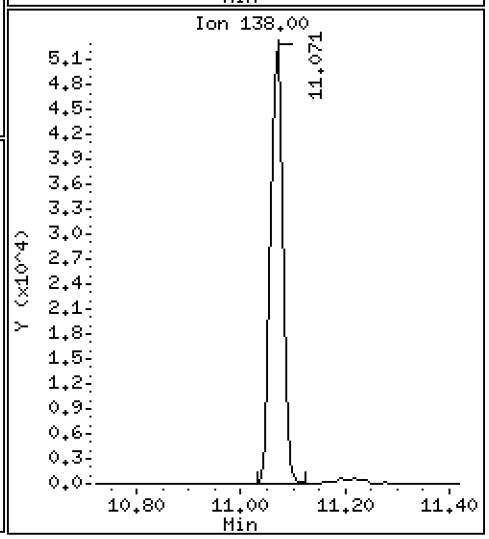












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

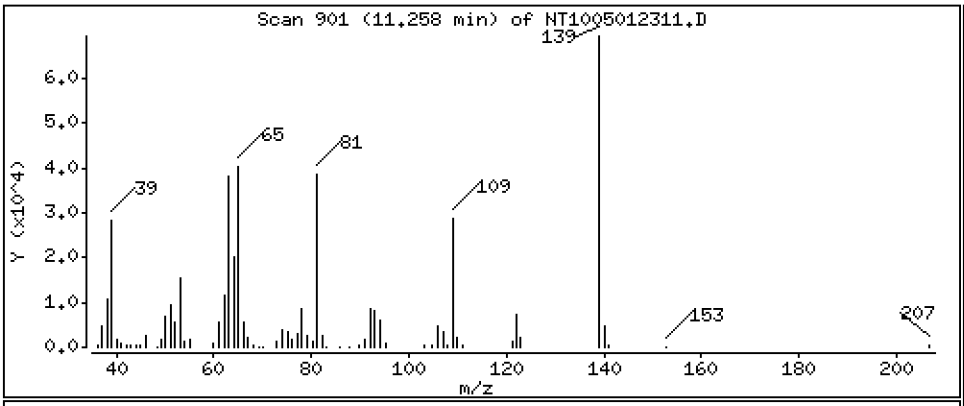
Operator: VTS

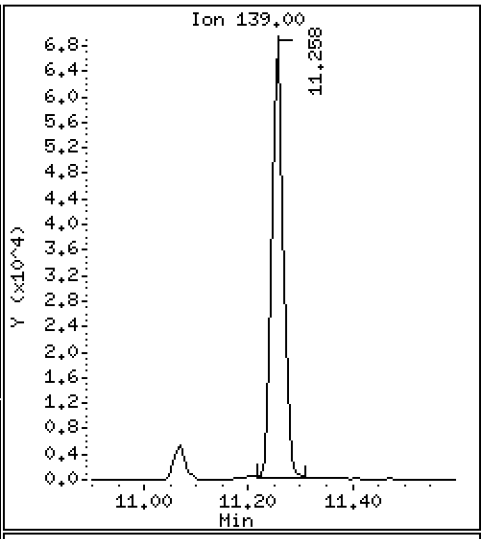
Column phase: ZB-5msi

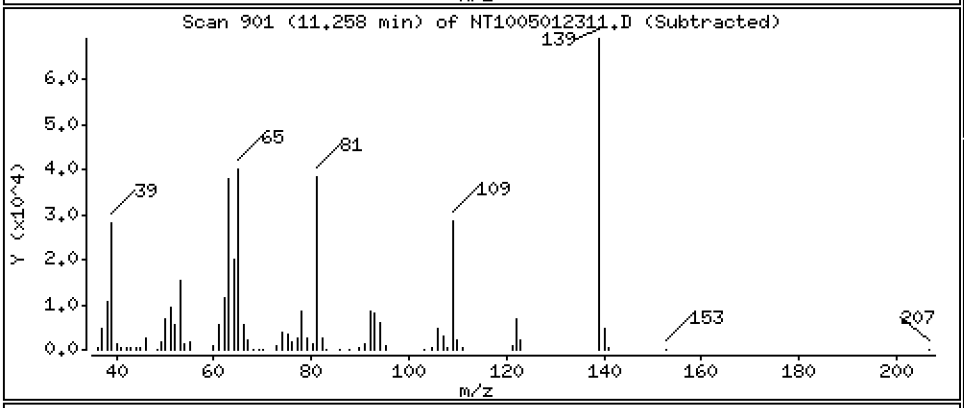
Column diameter: 0.25

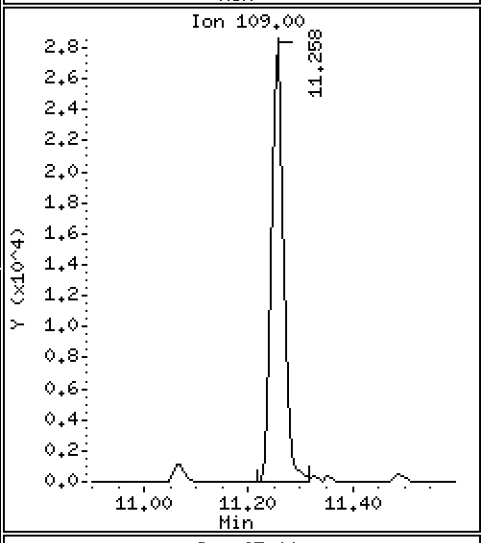
21 2-Nitrophenol

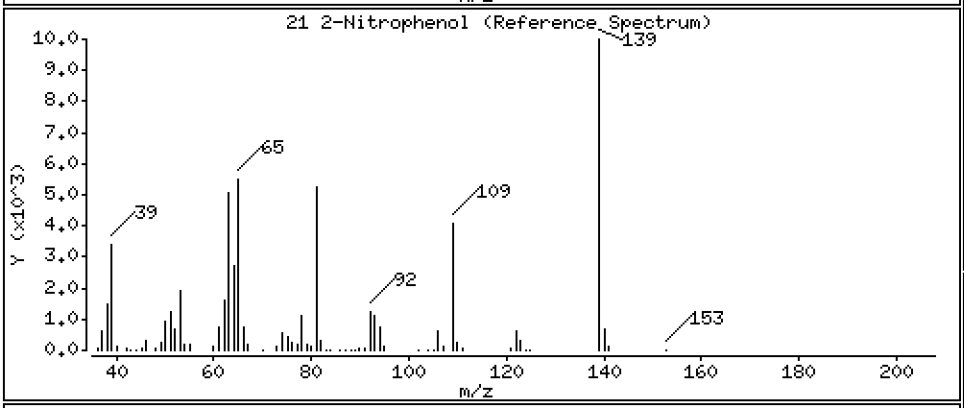
Concentration: 3.896 ug/mL

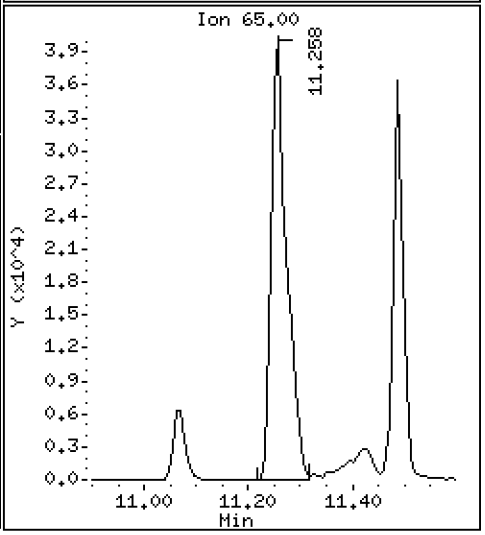


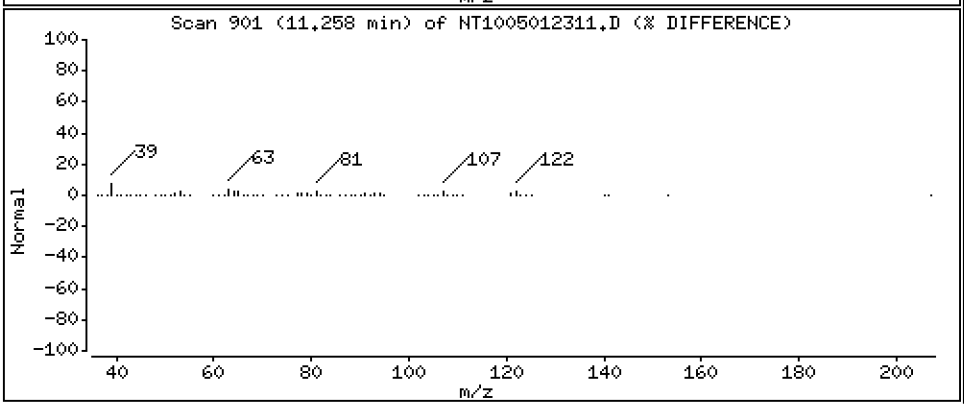












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

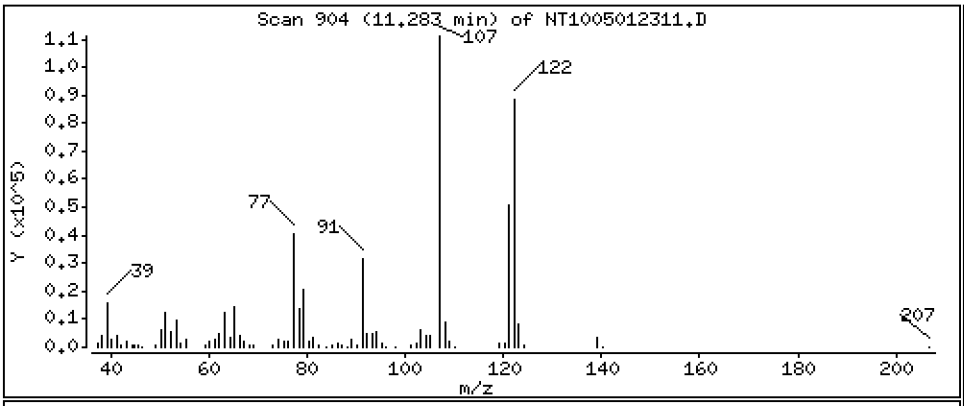
Operator: VTS

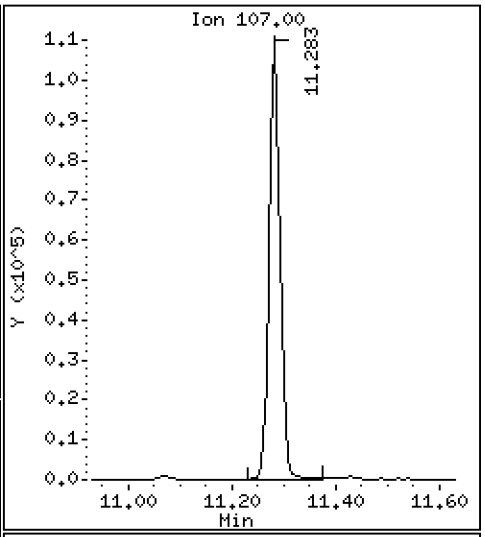
Column phase: ZB-5msi

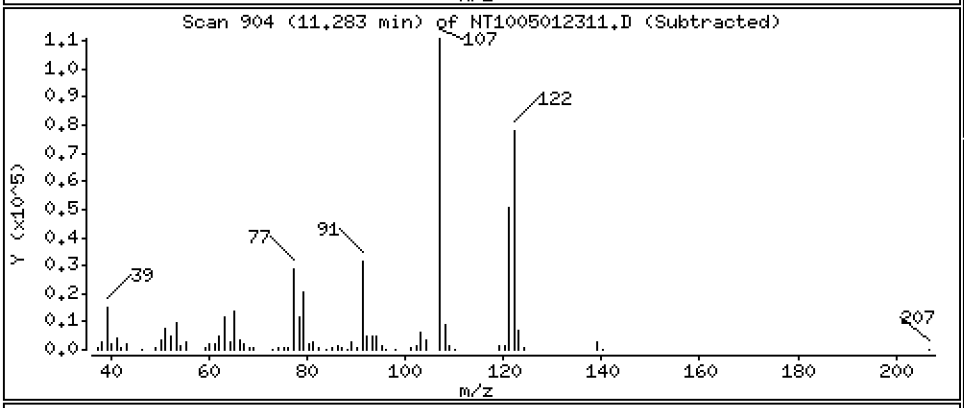
Column diameter: 0.25

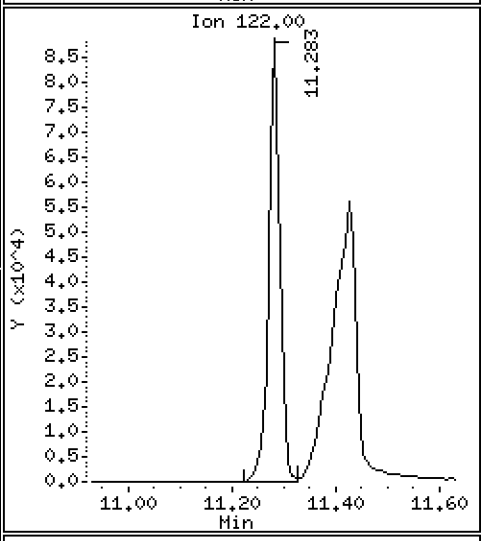
22 2,4-Dimethylphenol

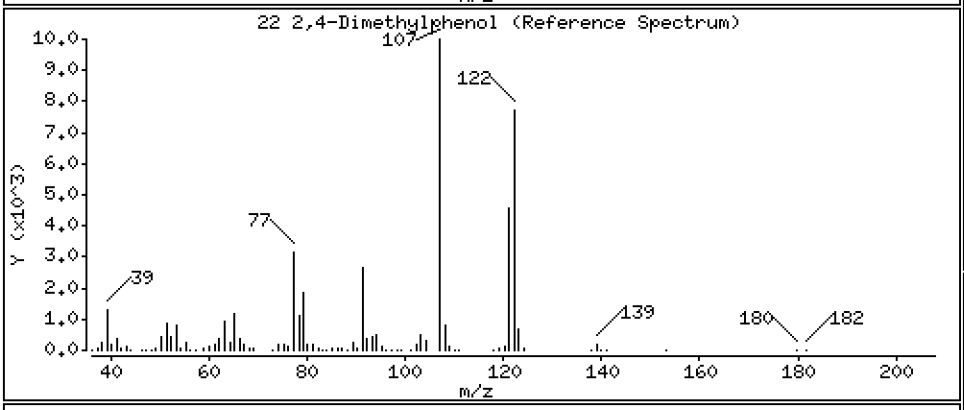
Concentration: 3.424 ug/mL

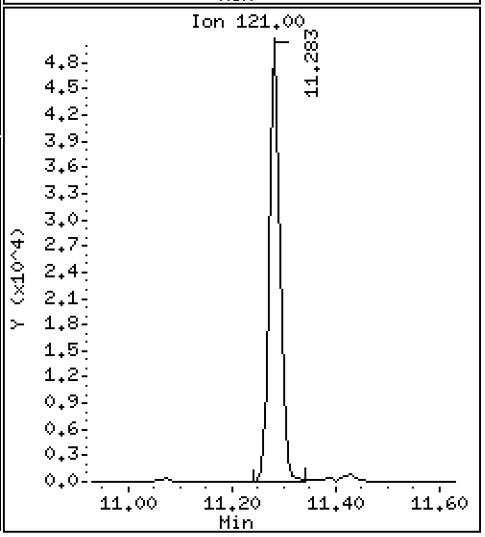


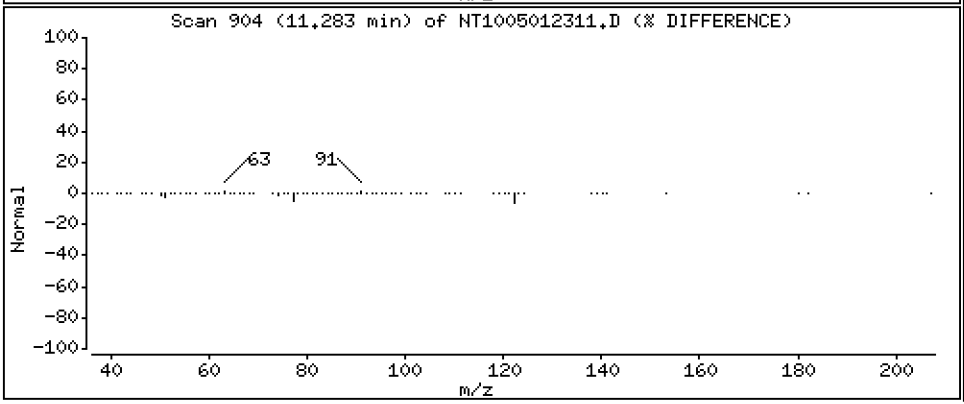












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

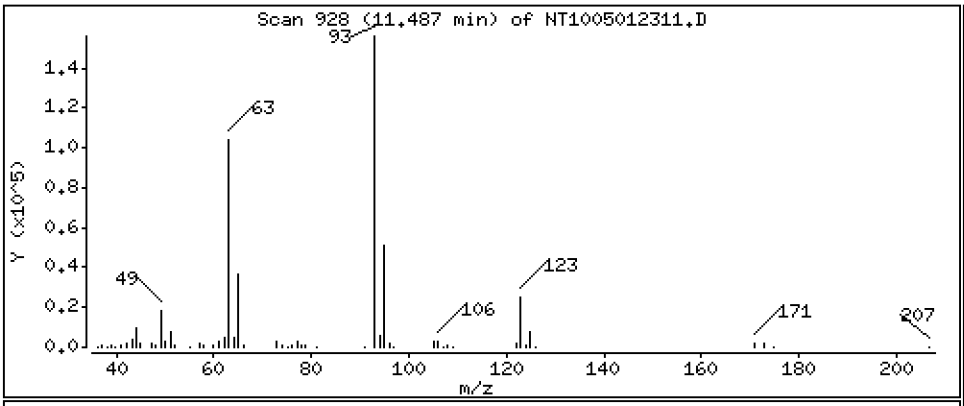
Operator: VTS

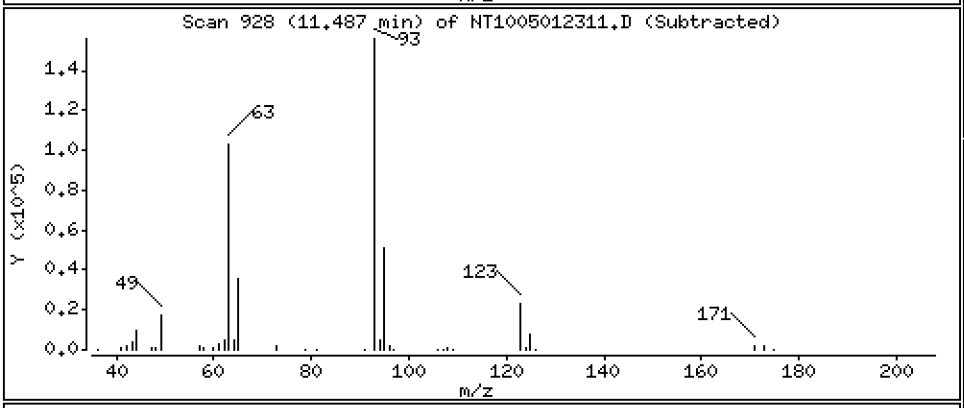
Column phase: ZB-5msi

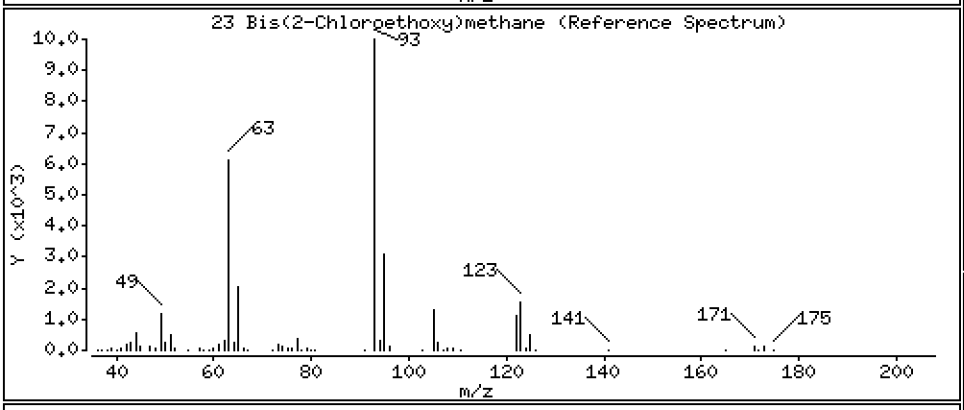
Column diameter: 0.25

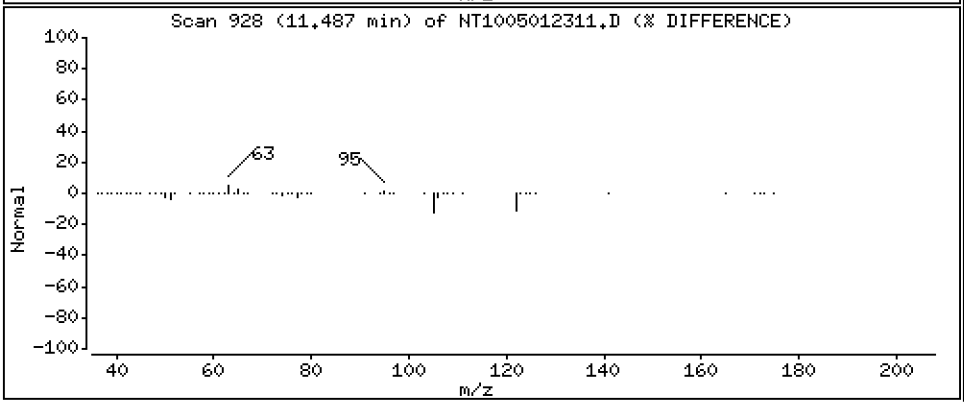
23 Bis(2-Chloroethoxy)methane

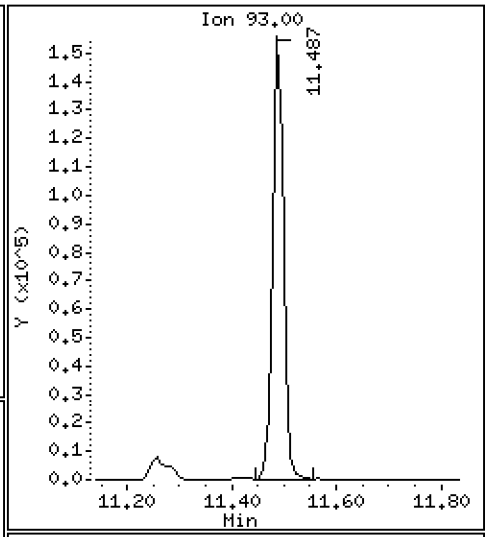
Concentration: 5.736 ug/mL

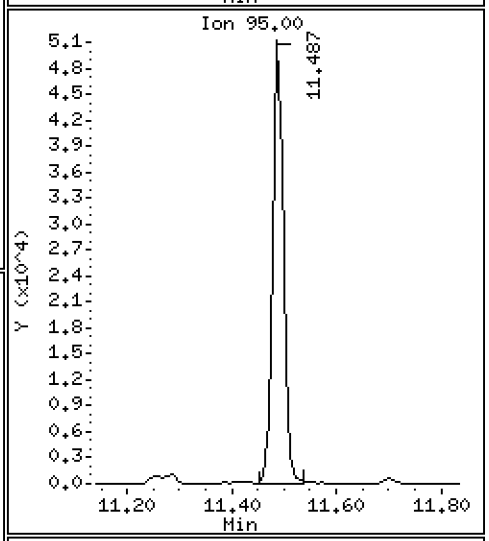


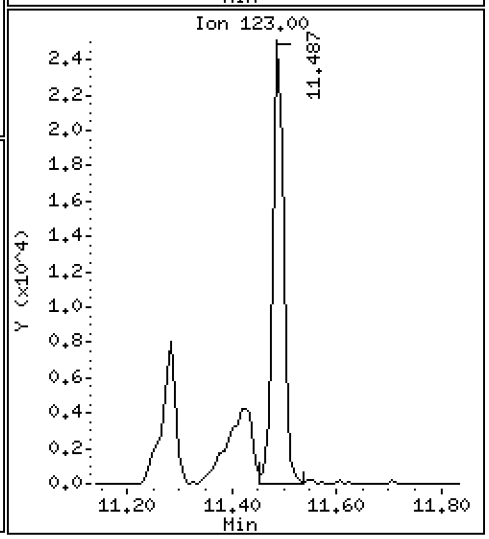












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

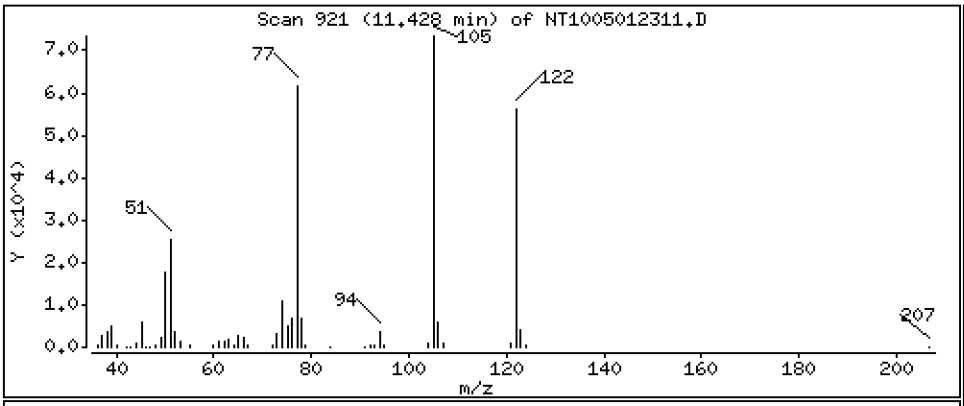
Operator: VTS

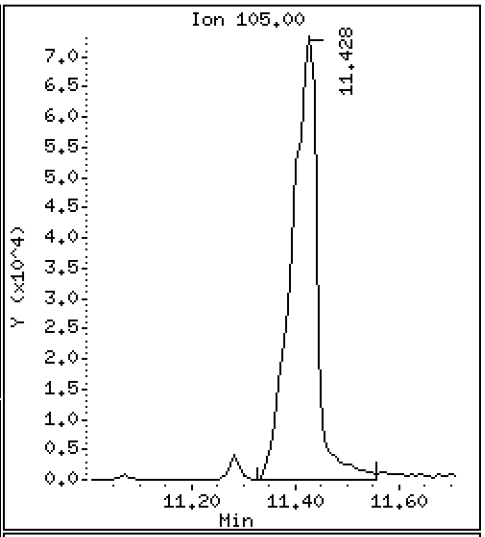
Column phase: ZB-5msi

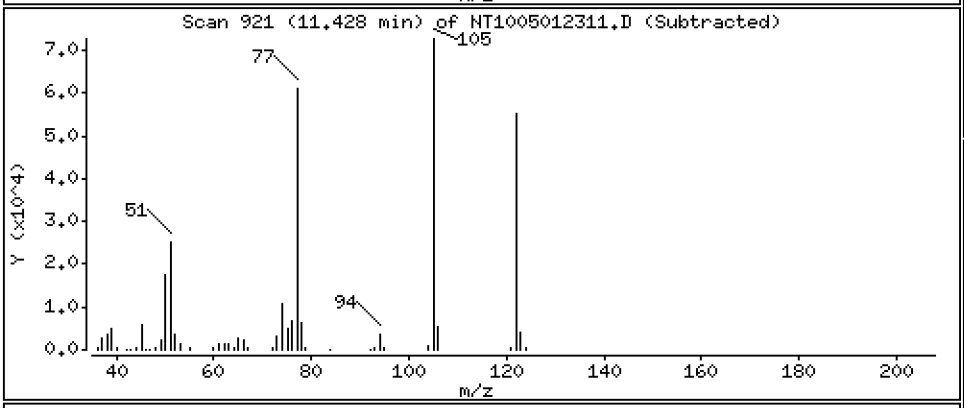
Column diameter: 0.25

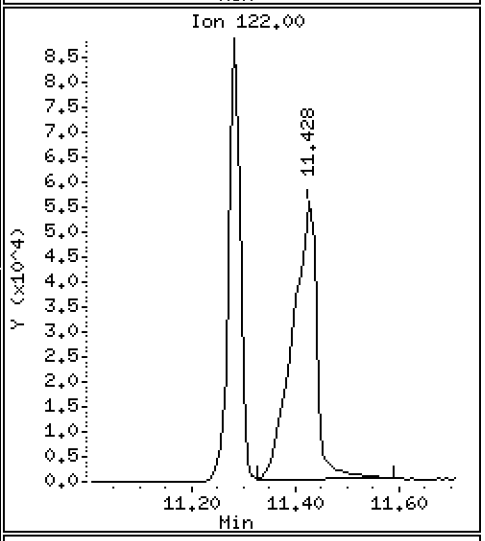
24 Benzoic acid

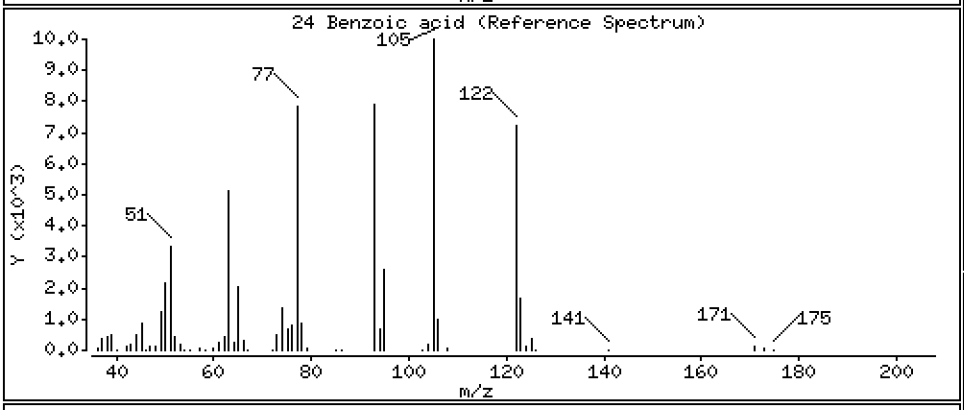
Concentration: 7.386 ug/mL

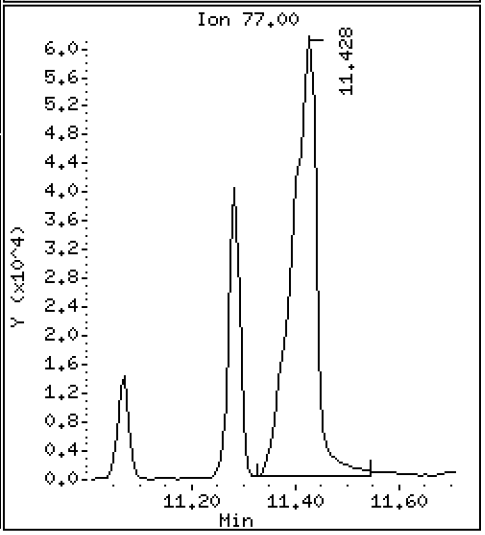


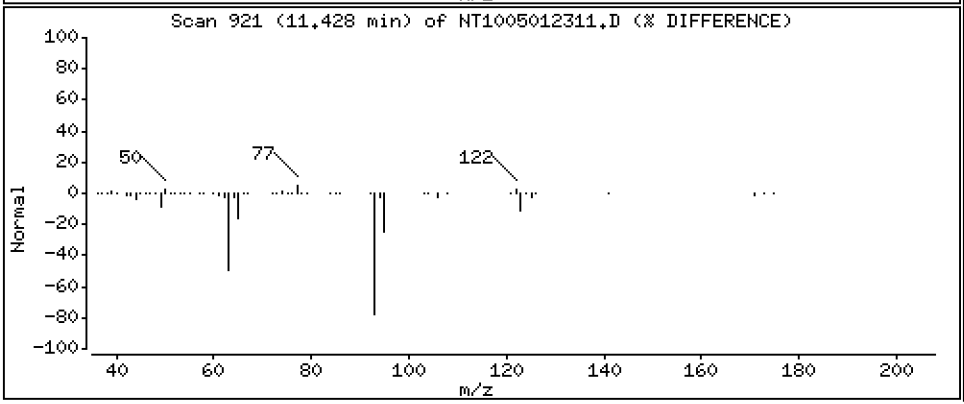












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

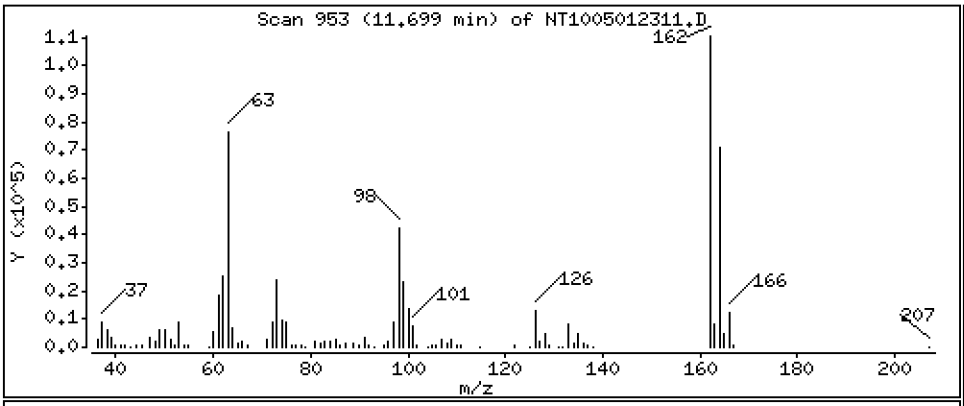
Operator: VTS

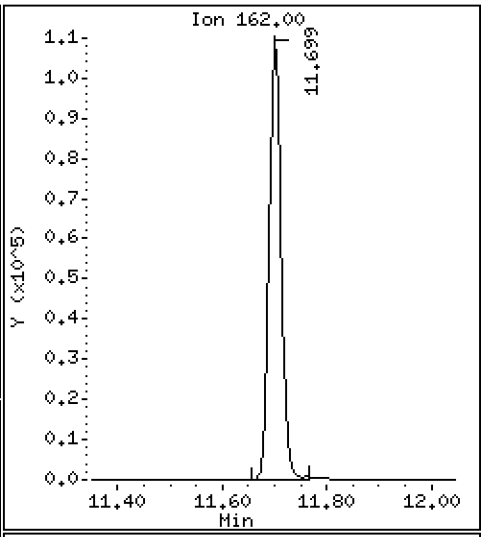
Column phase: ZB-5msi

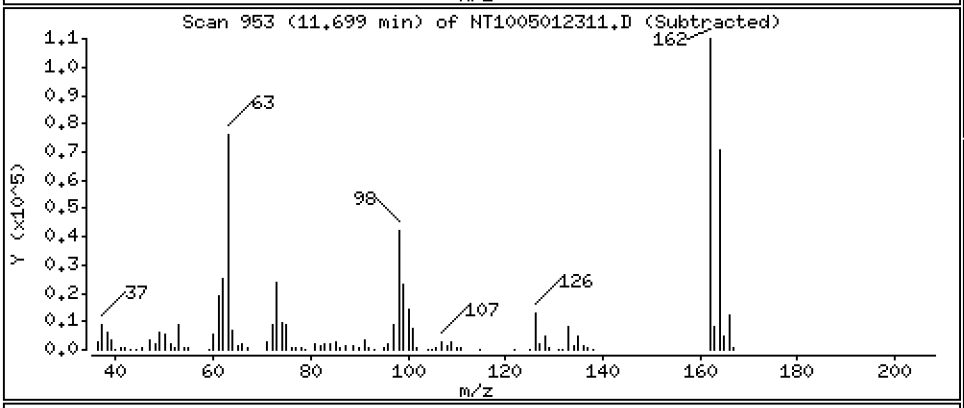
Column diameter: 0.25

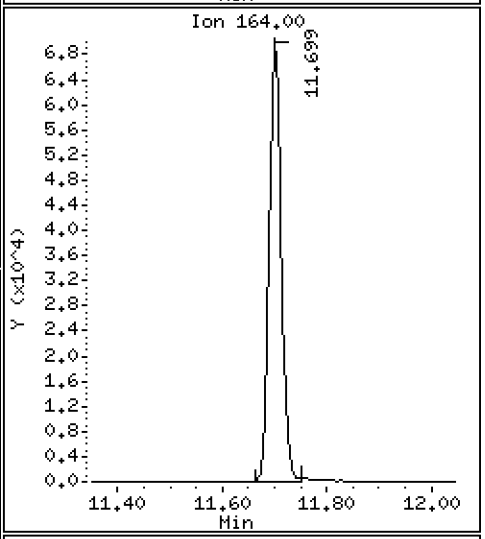
25 2,4-Dichlorophenol

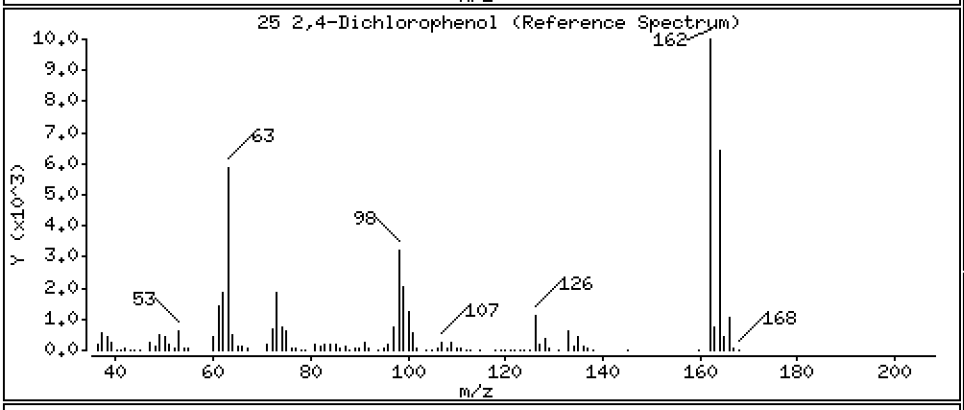
Concentration: 4.480 ug/mL

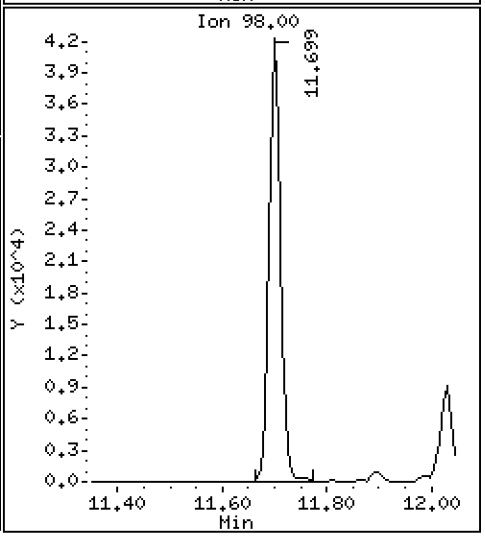


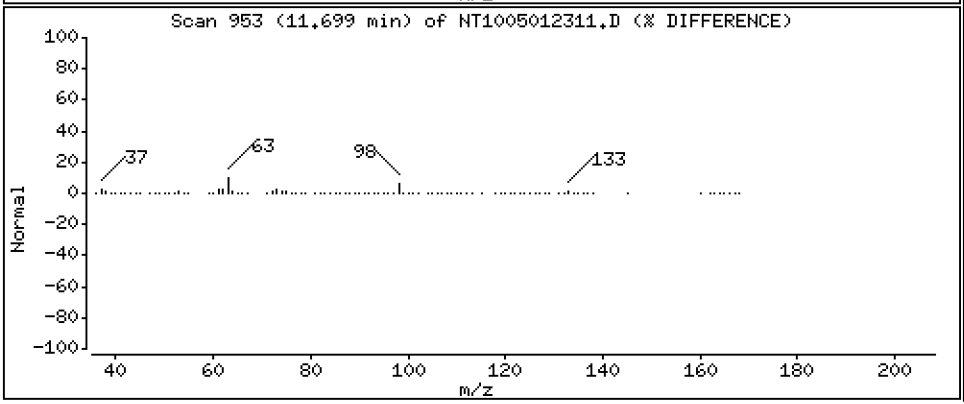












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

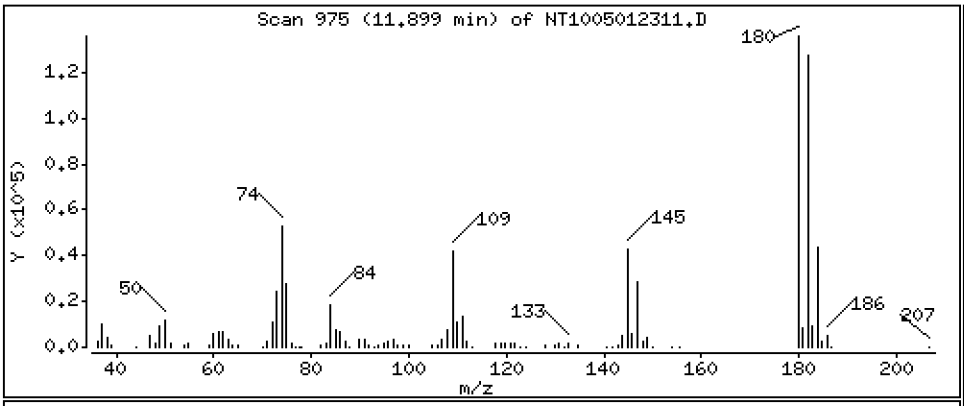
Operator: VTS

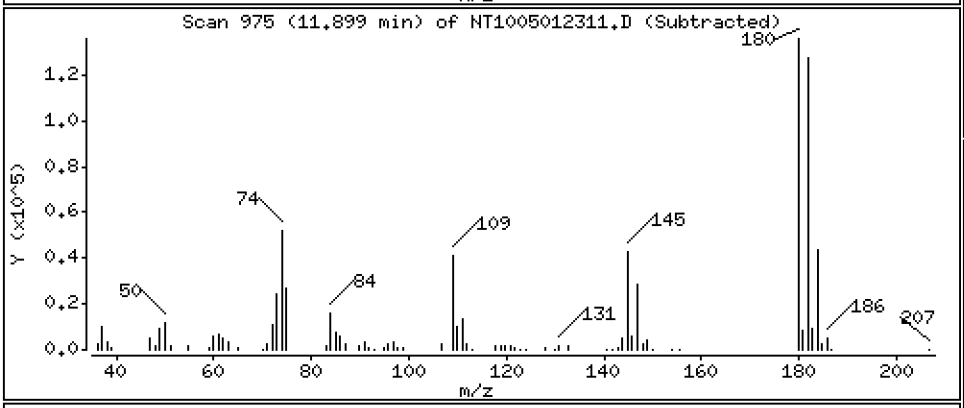
Column phase: ZB-5msi

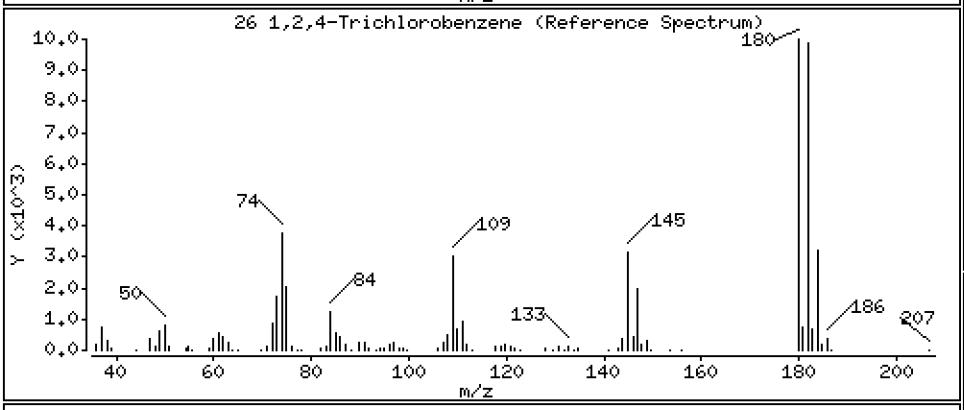
Column diameter: 0.25

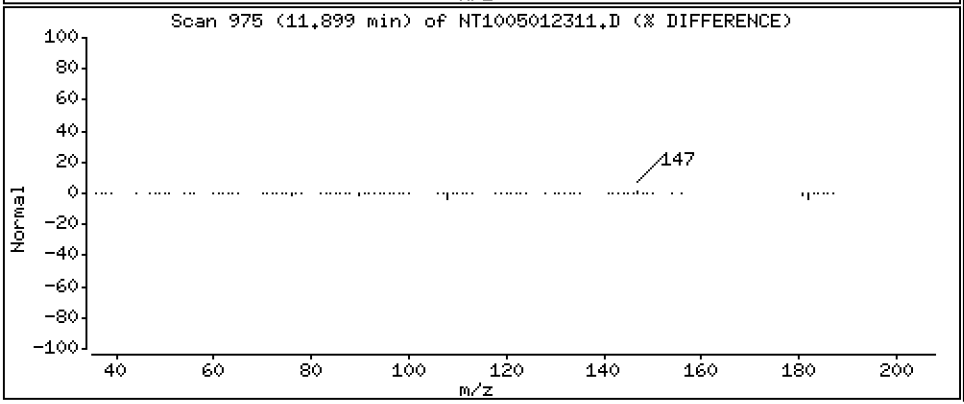
26 1,2,4-Trichlorobenzene

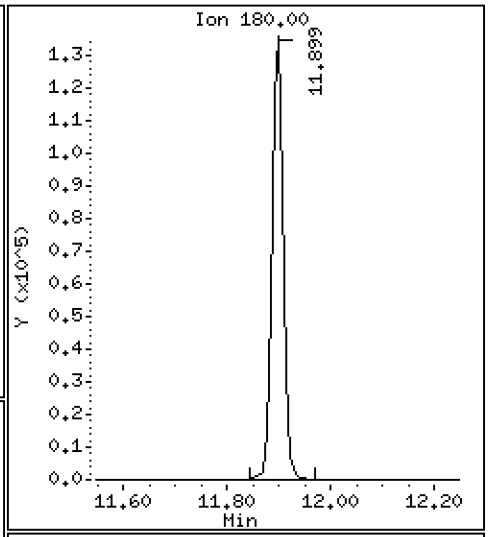
Concentration: 4.378 ug/mL

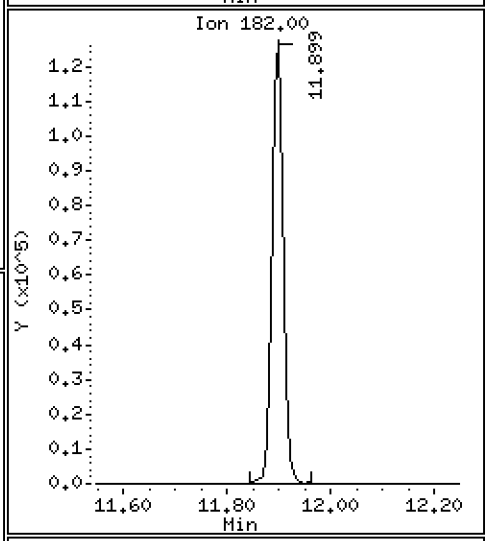


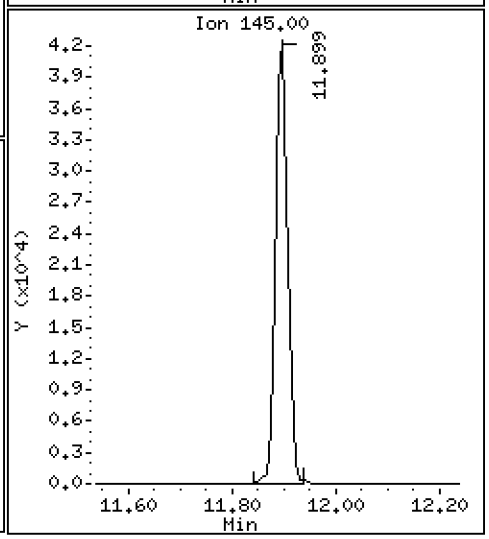












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

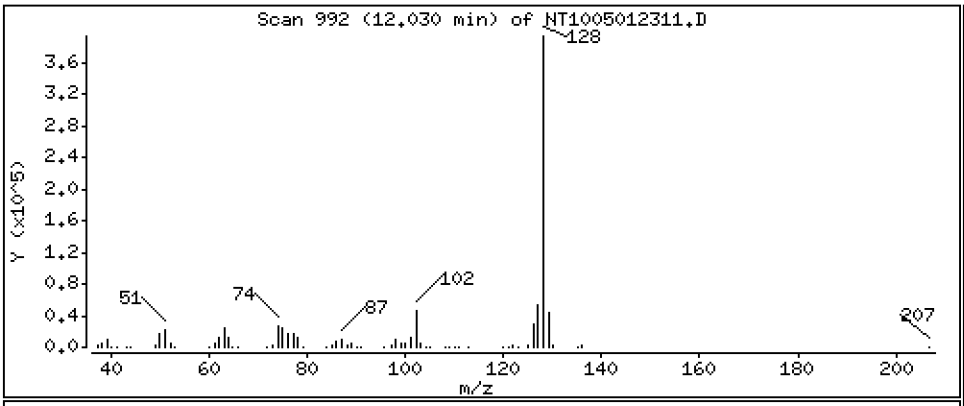
Operator: VTS

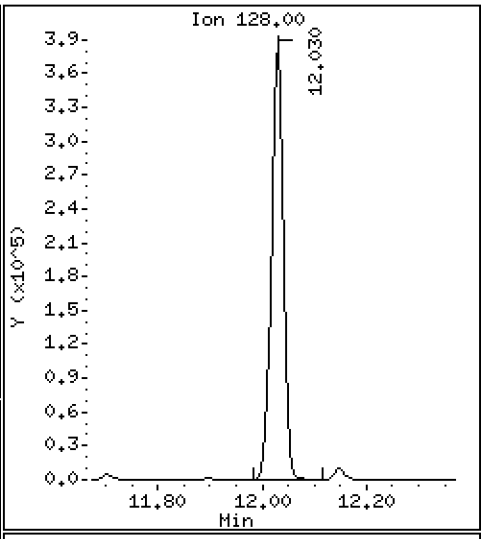
Column phase: ZB-5msi

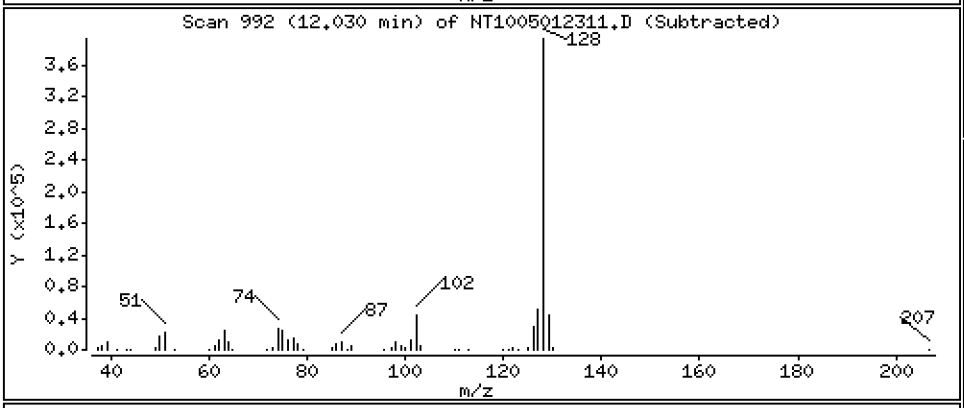
Column diameter: 0.25

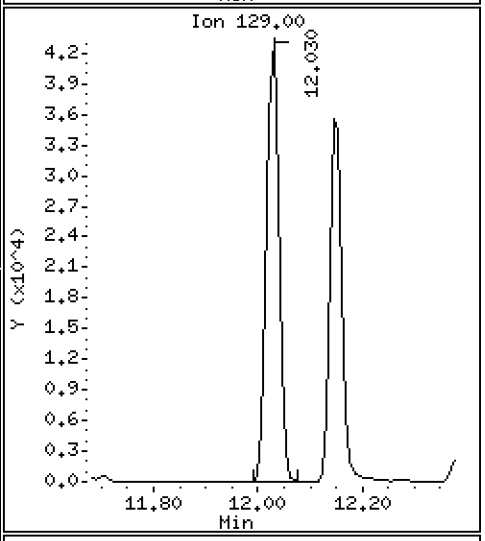
28 Naphthalene

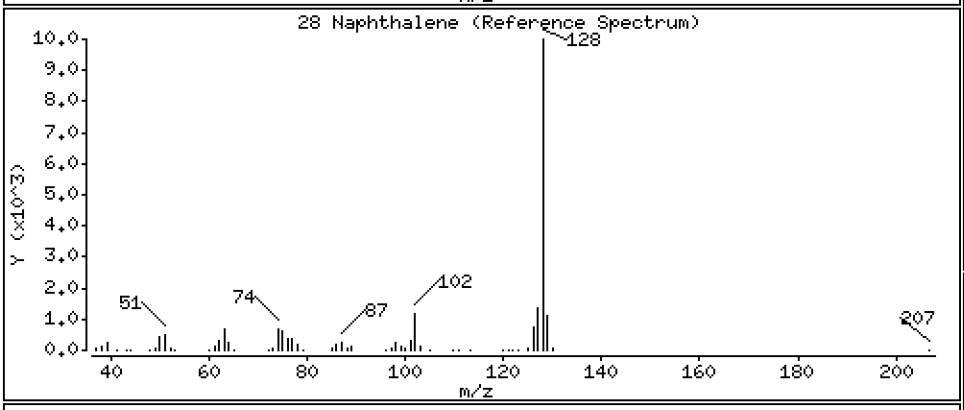
Concentration: 4.742 ug/mL

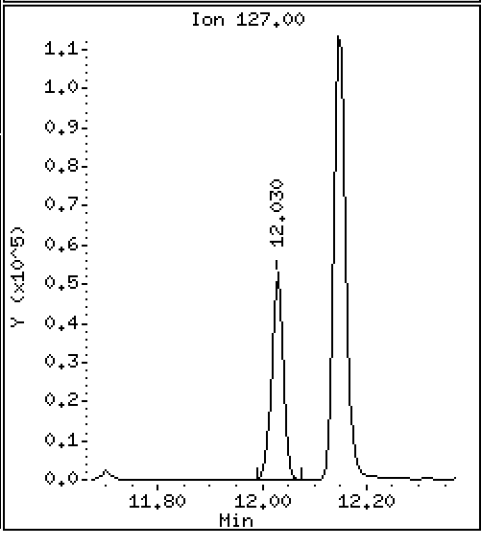


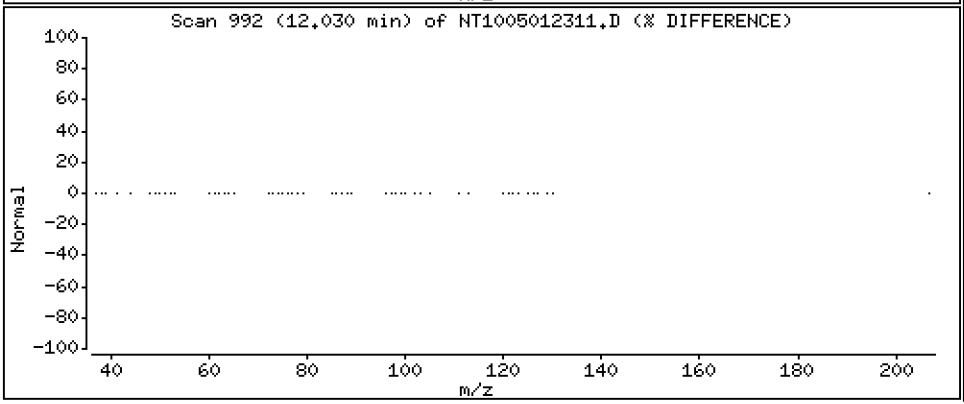












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

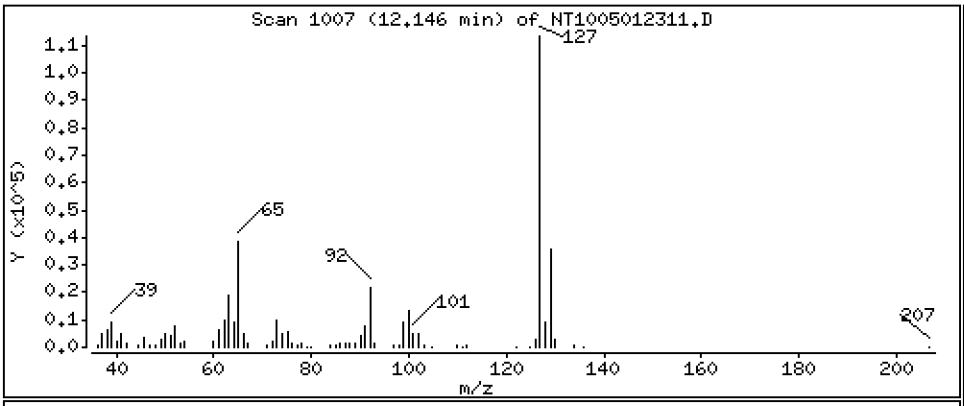
Operator: VTS

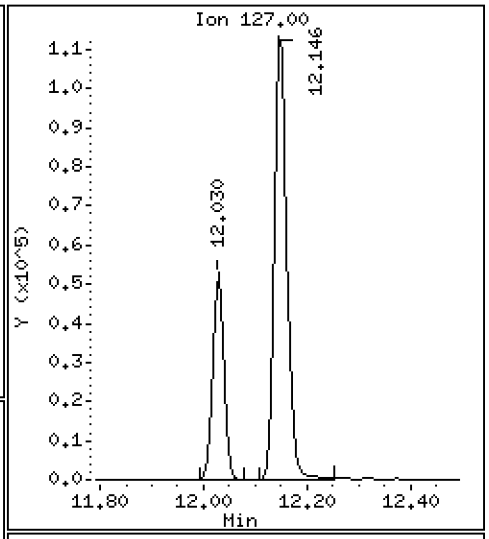
Column phase: ZB-5msi

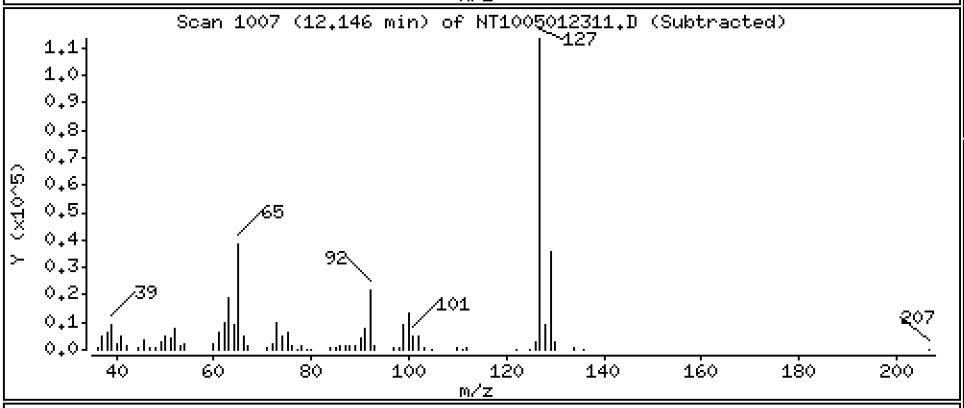
Column diameter: 0.25

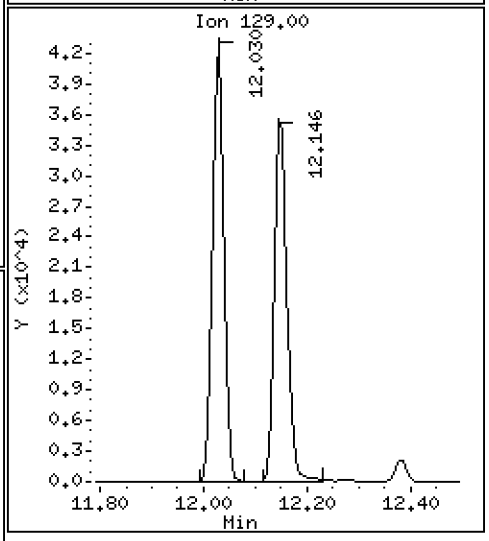
29 4-Chloroaniline

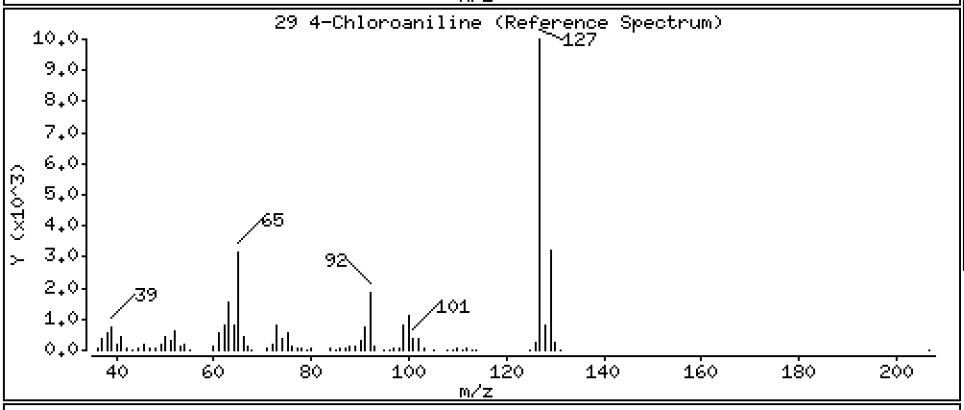
Concentration: 3.956 ug/mL

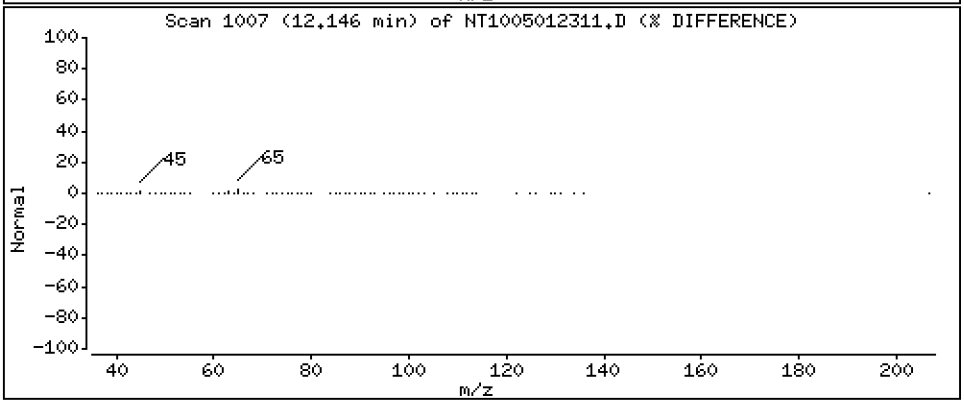












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

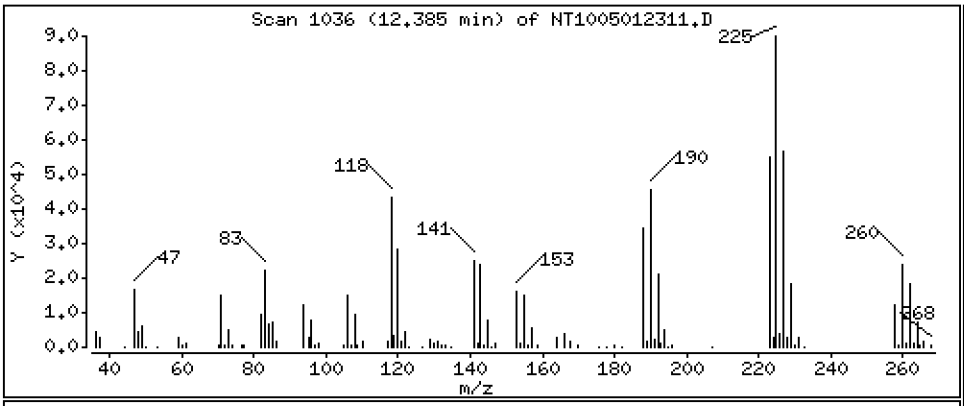
Operator: VTS

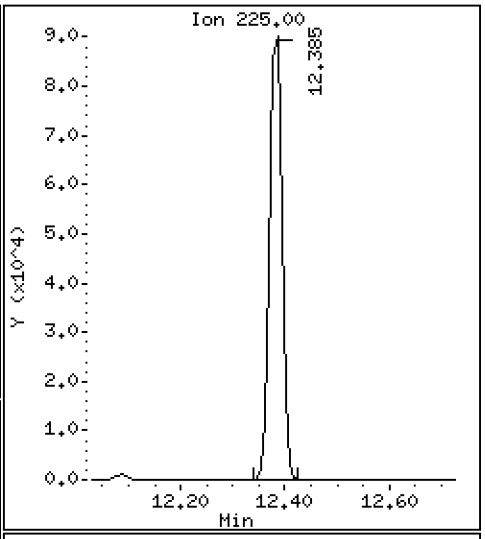
Column phase: ZB-5msi

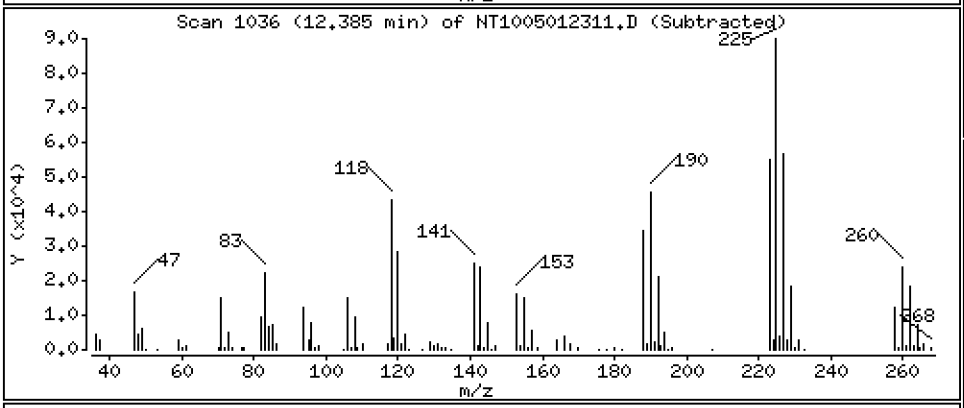
Column diameter: 0.25

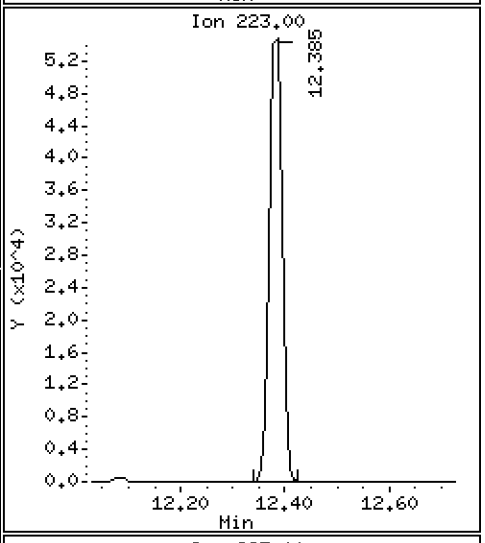
30 Hexachlorobutadiene

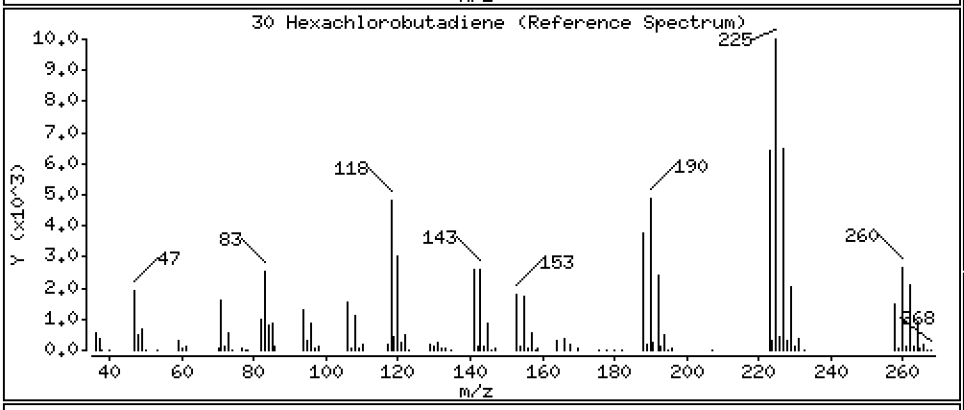
Concentration: 4.626 ug/mL

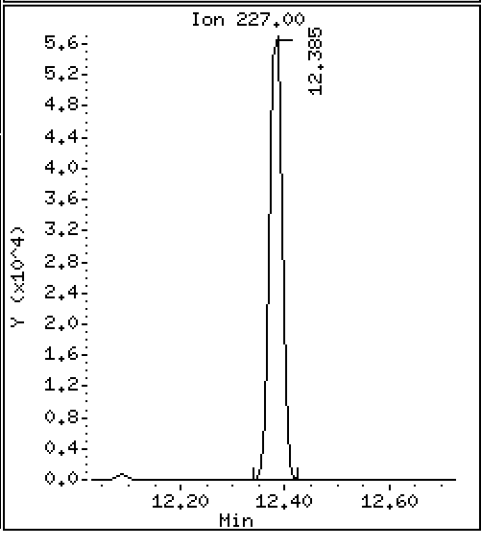


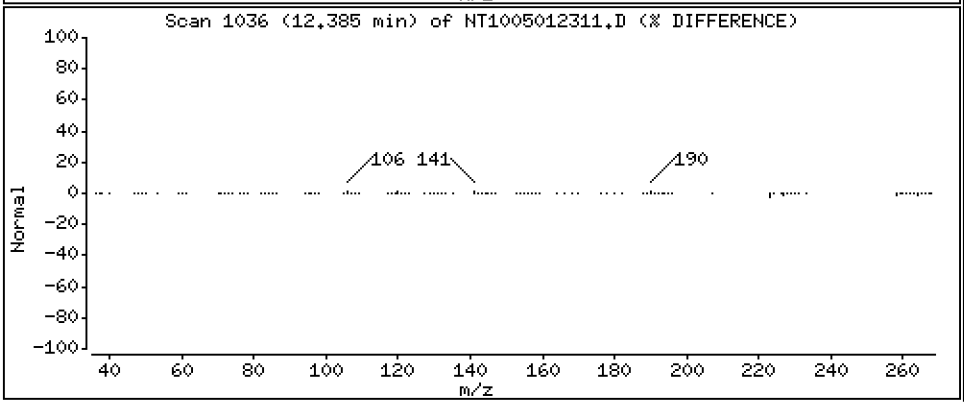












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

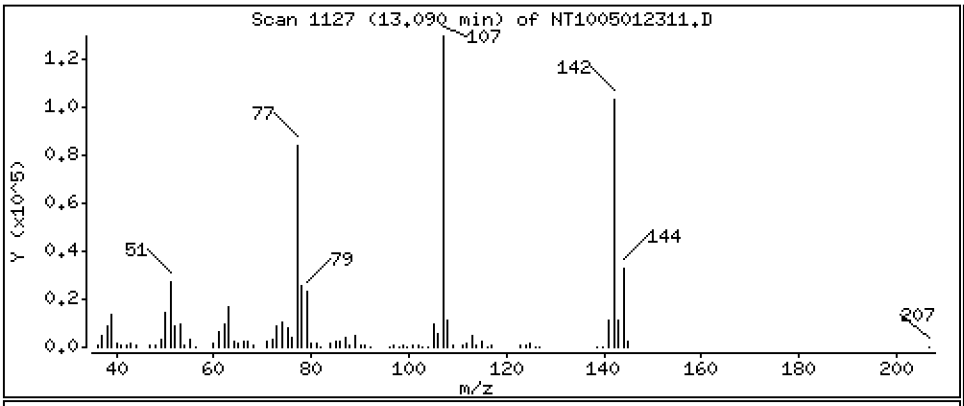
Operator: VTS

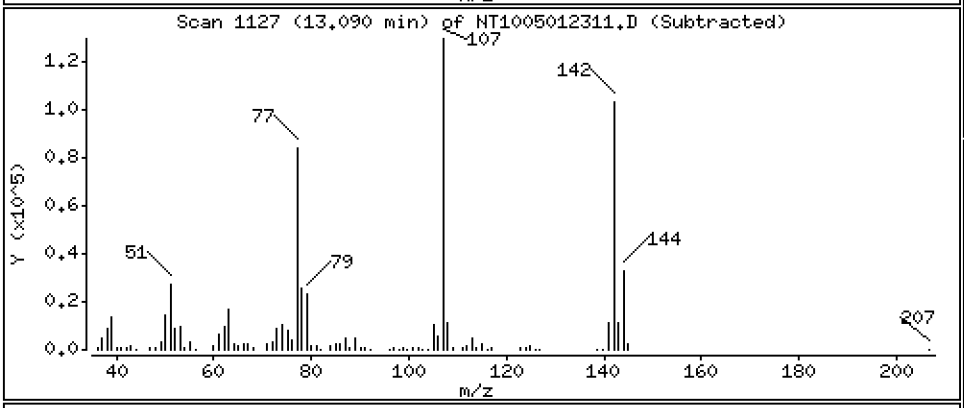
Column phase: ZB-5msi

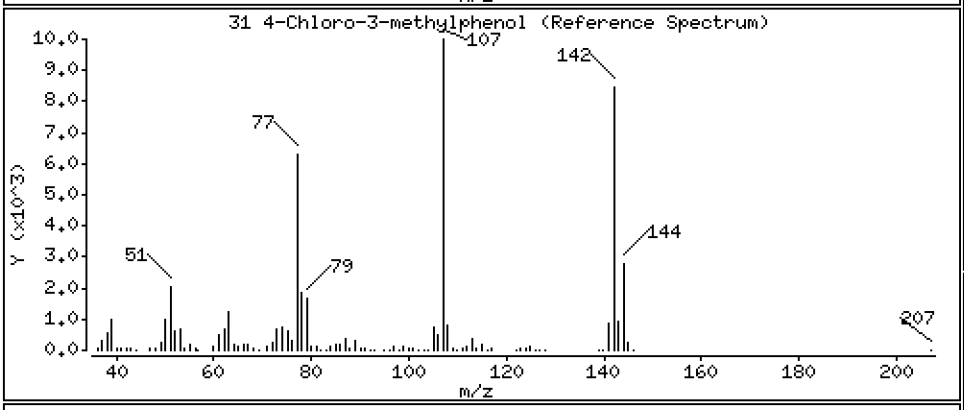
Column diameter: 0.25

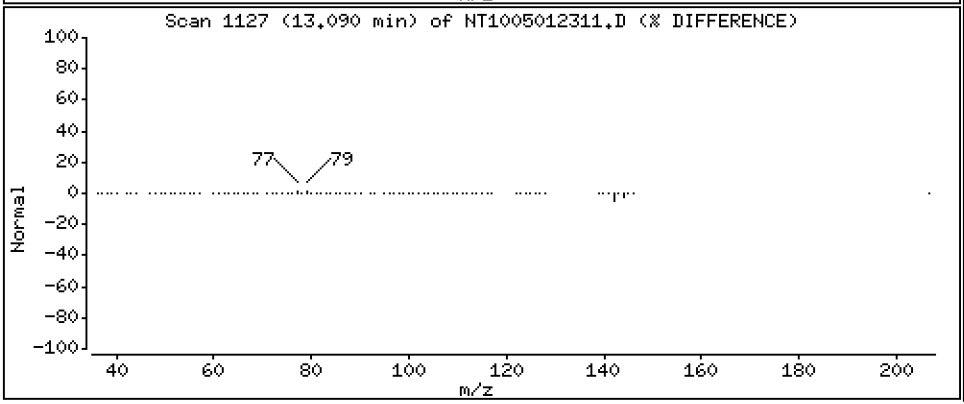
31 4-Chloro-3-methylphenol

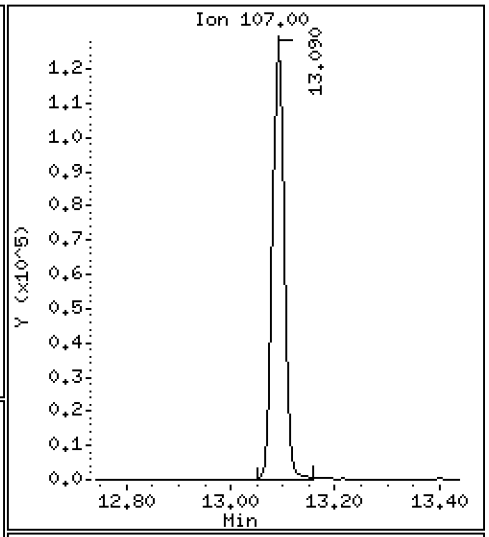
Concentration: 4.460 ug/mL

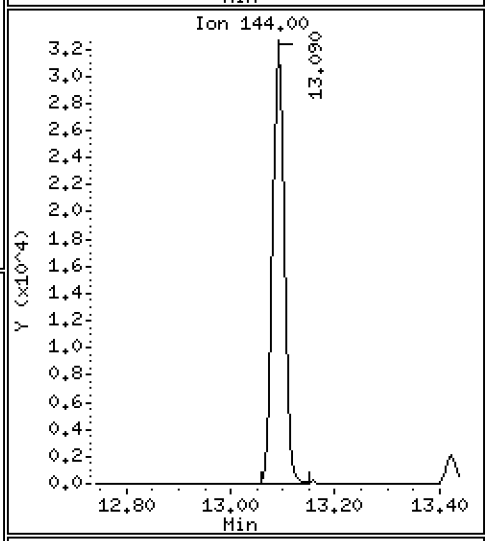


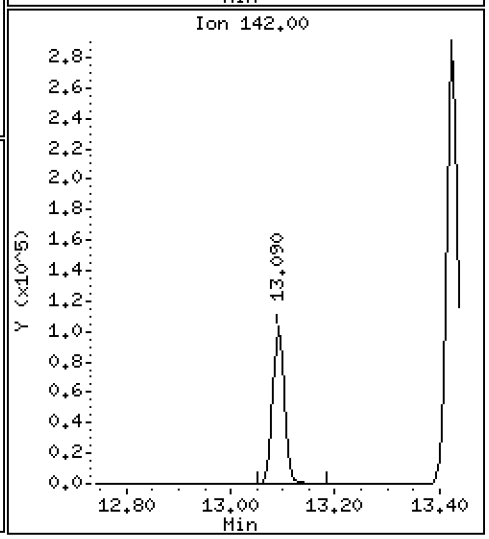












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

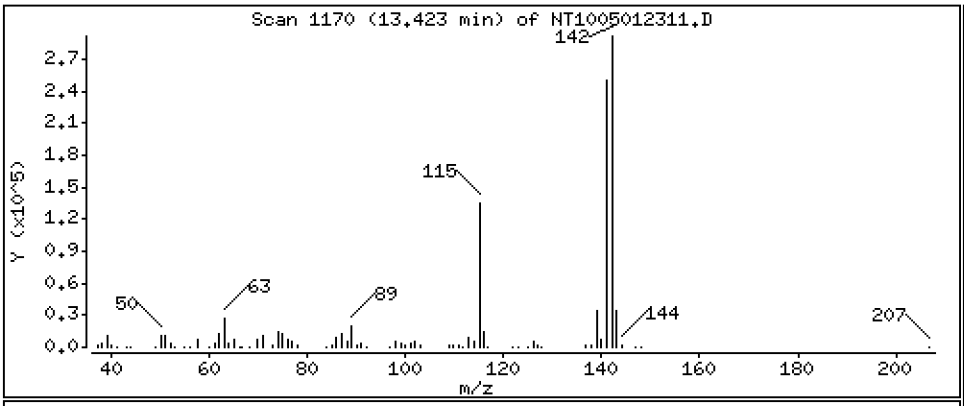
Operator: VTS

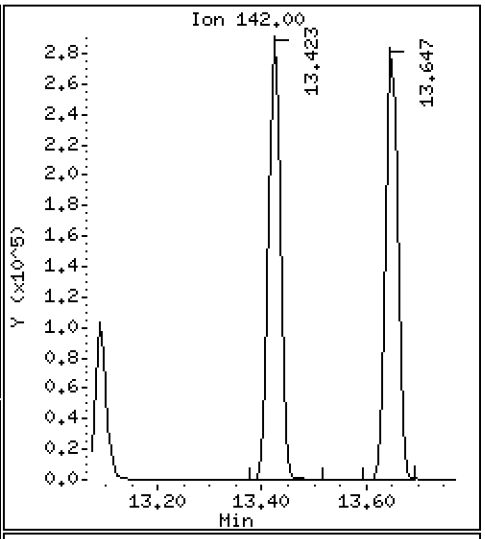
Column phase: ZB-5msi

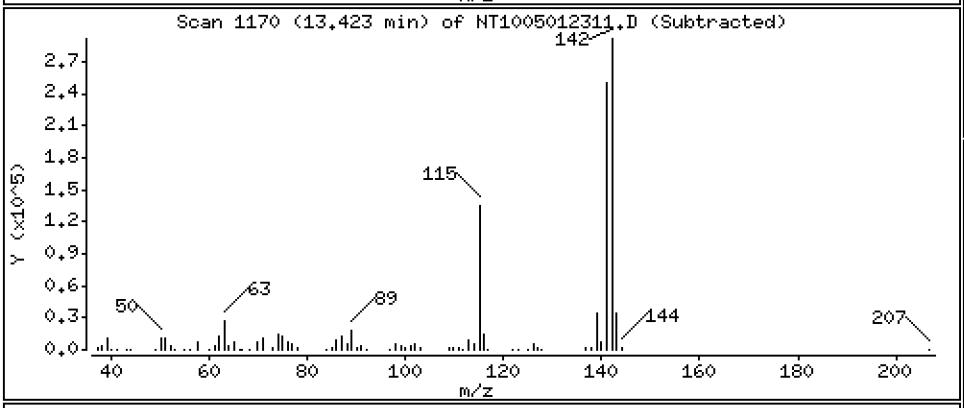
Column diameter: 0.25

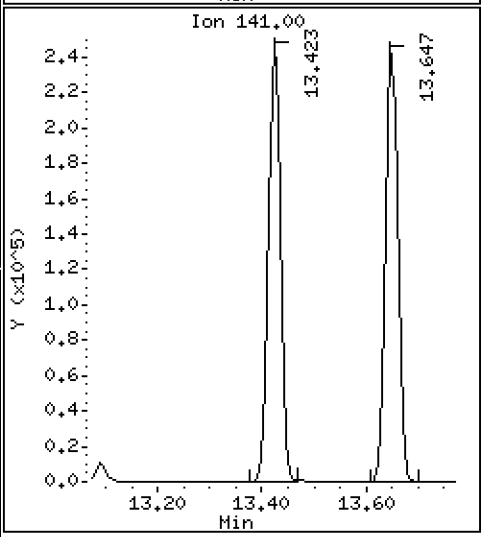
32 2-Methylnaphthalene

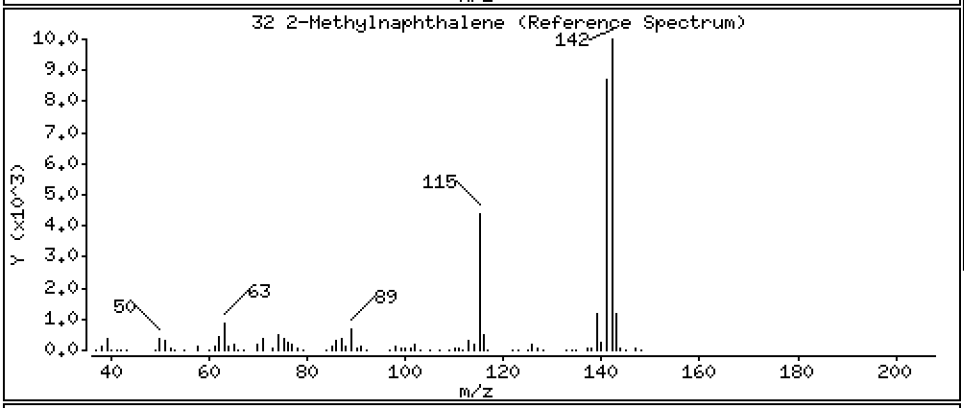
Concentration: 4.513 ug/mL

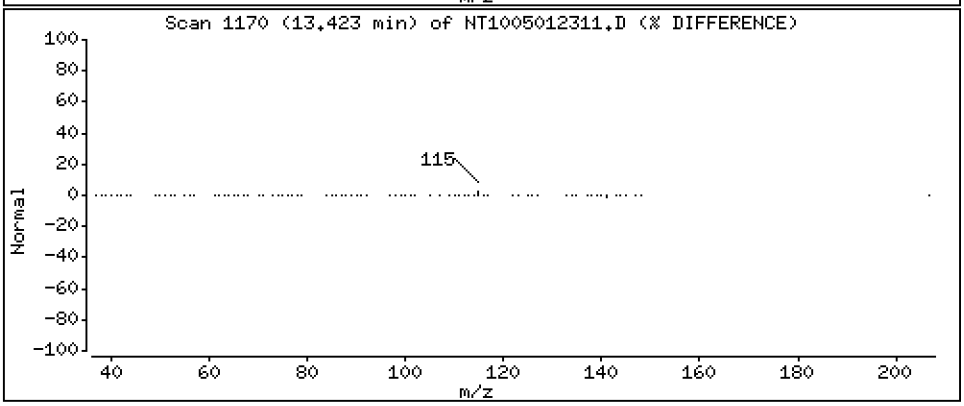












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

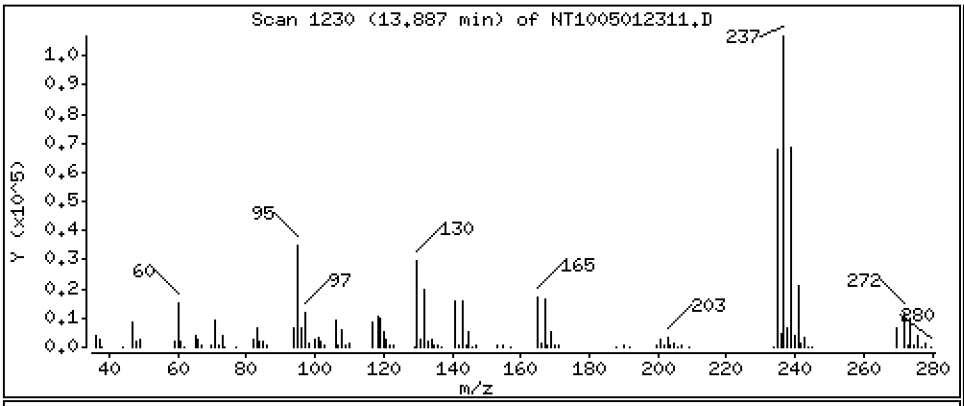
Operator: VTS

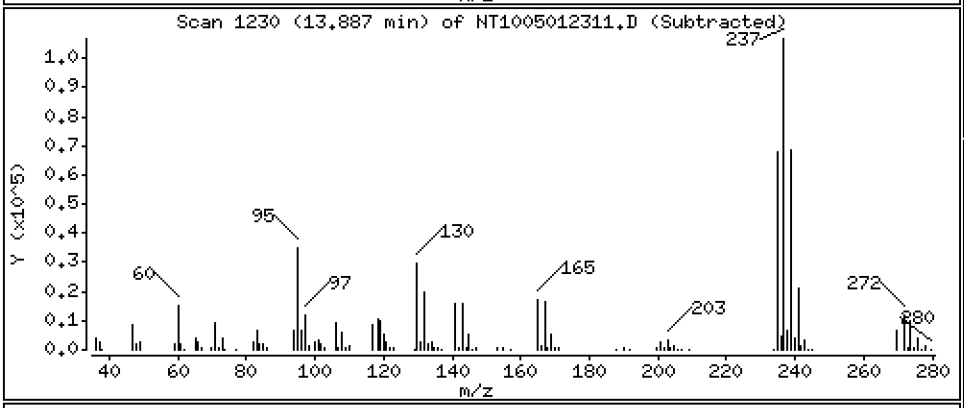
Column phase: ZB-5msi

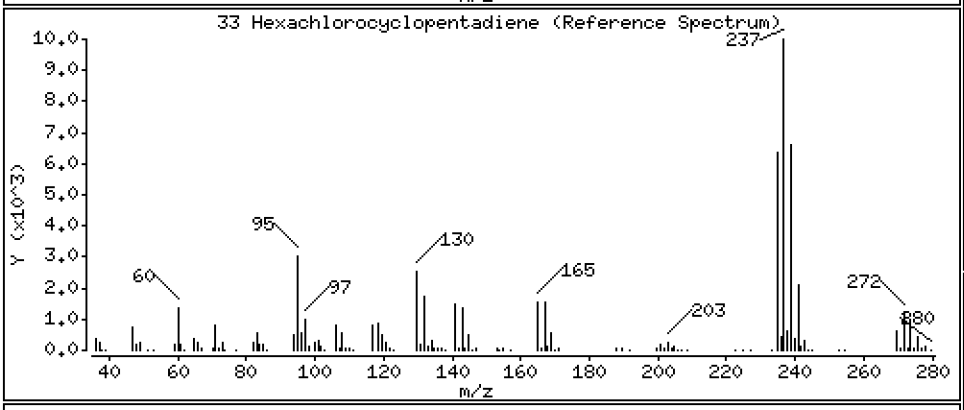
Column diameter: 0.25

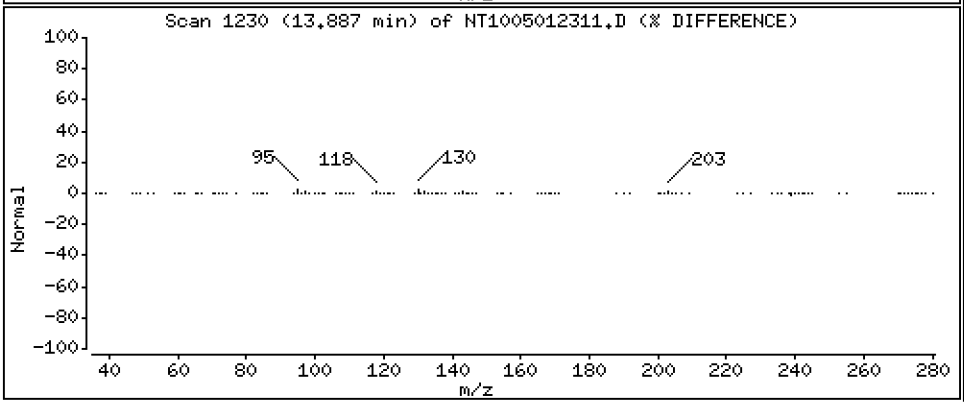
33 Hexachlorocyclopentadiene

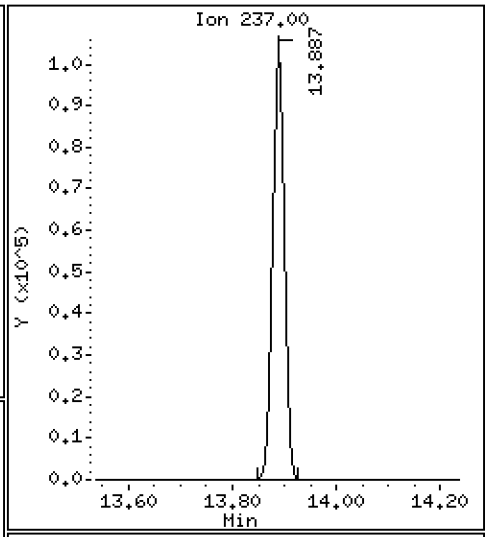
Concentration: 4.673 ug/mL

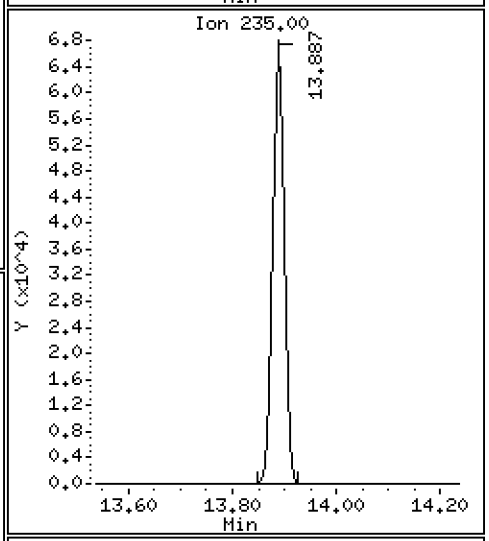


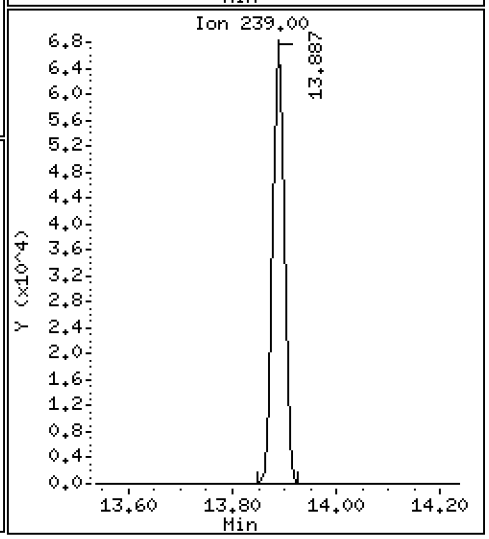












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

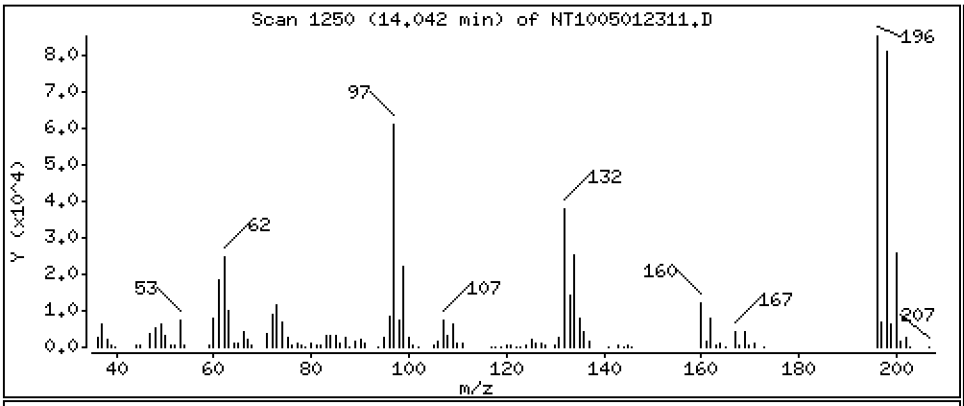
Operator: VTS

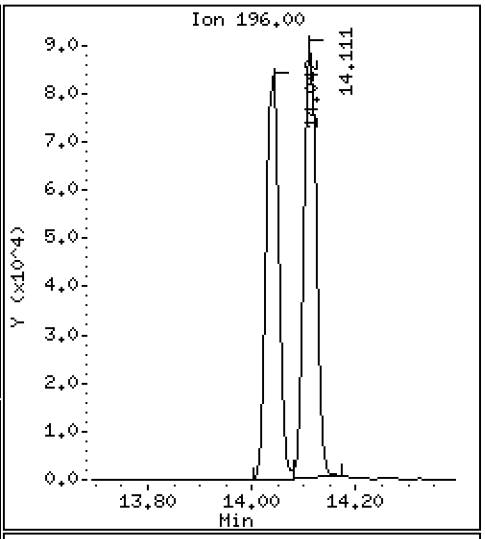
Column phase: ZB-5msi

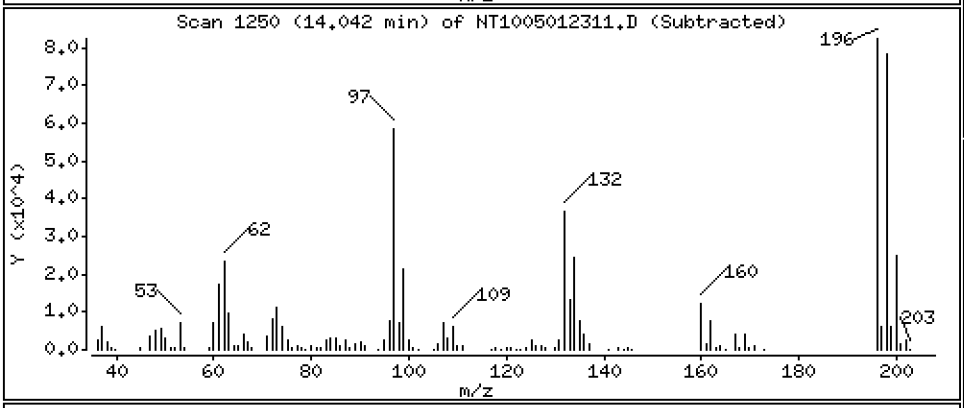
Column diameter: 0.25

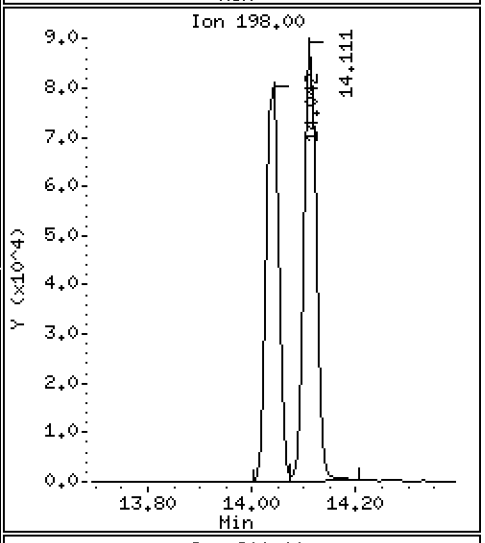
34 2,4,6-Trichlorophenol

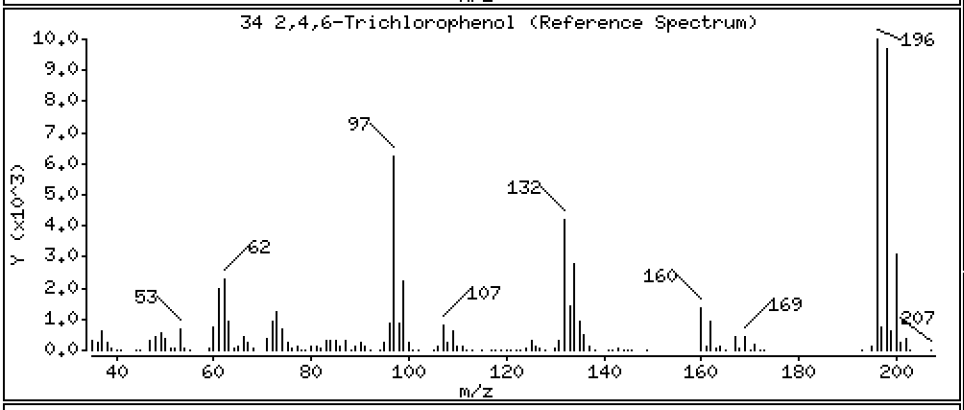
Concentration: 4.212 ug/mL

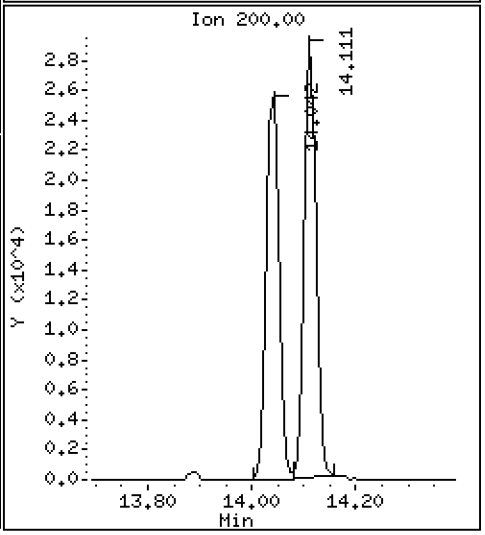


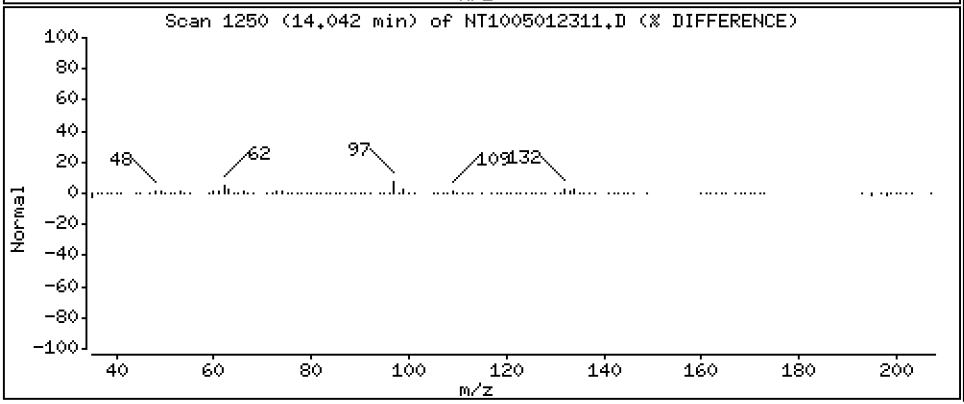












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

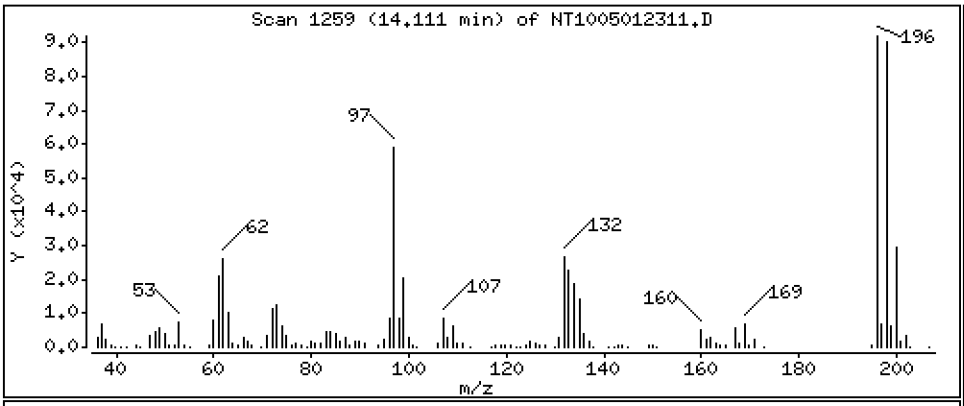
Operator: VTS

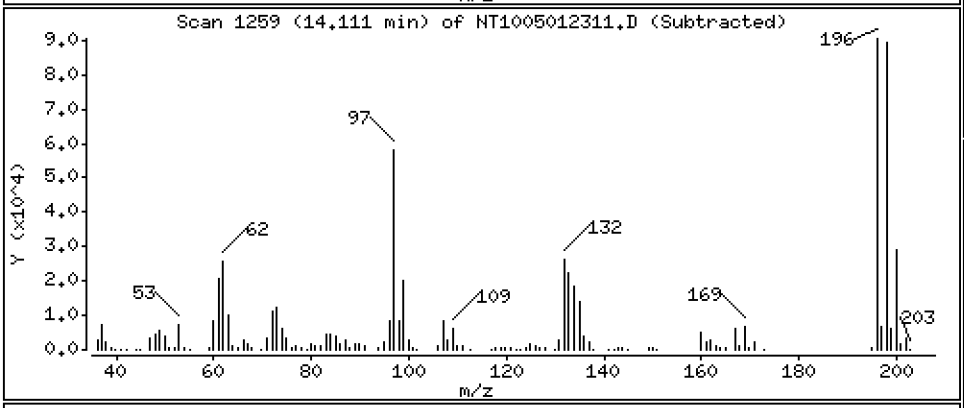
Column phase: ZB-5msi

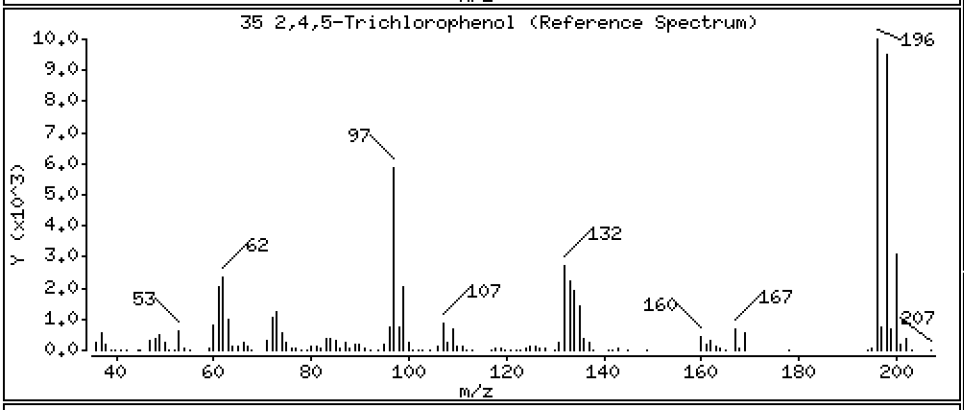
Column diameter: 0.25

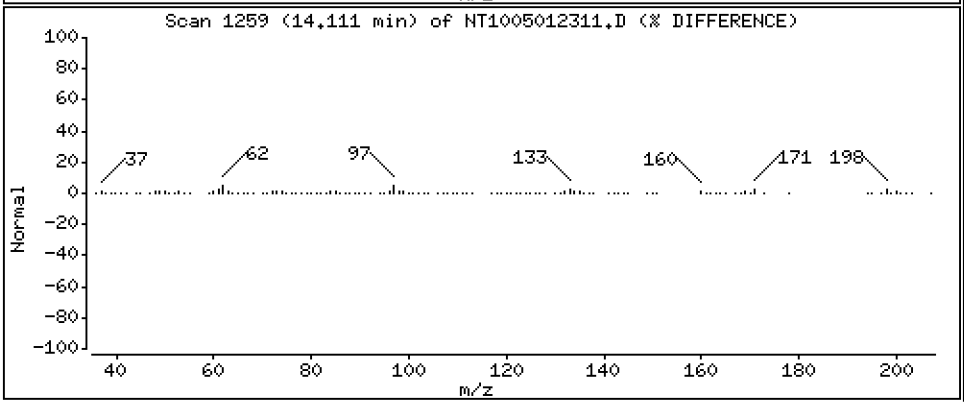
35 2,4,5-Trichlorophenol

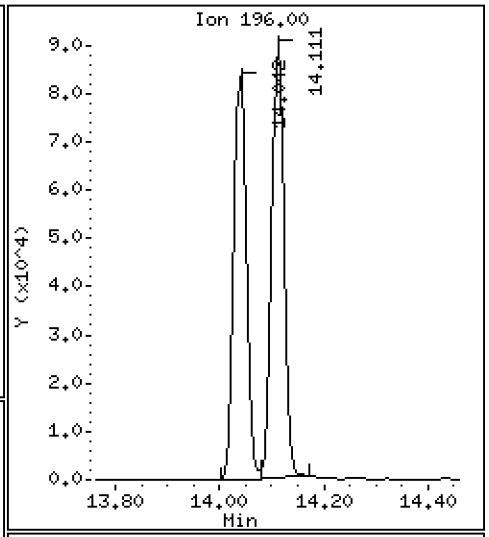
Concentration: 4.029 ug/mL

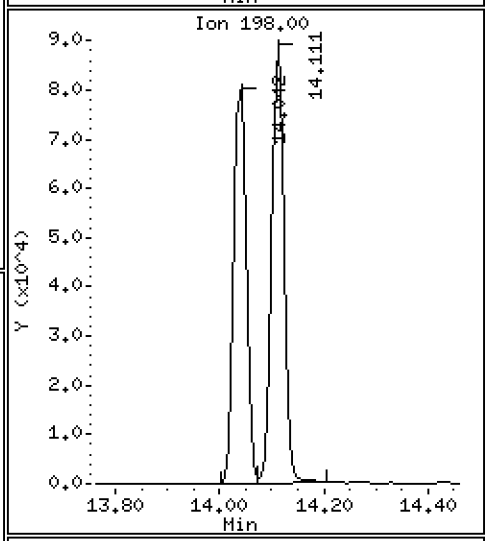


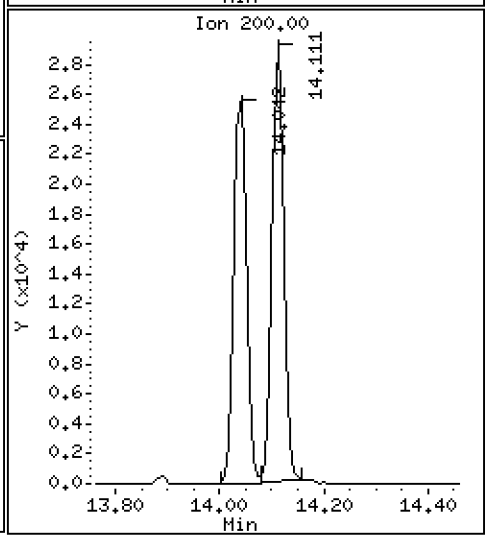












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

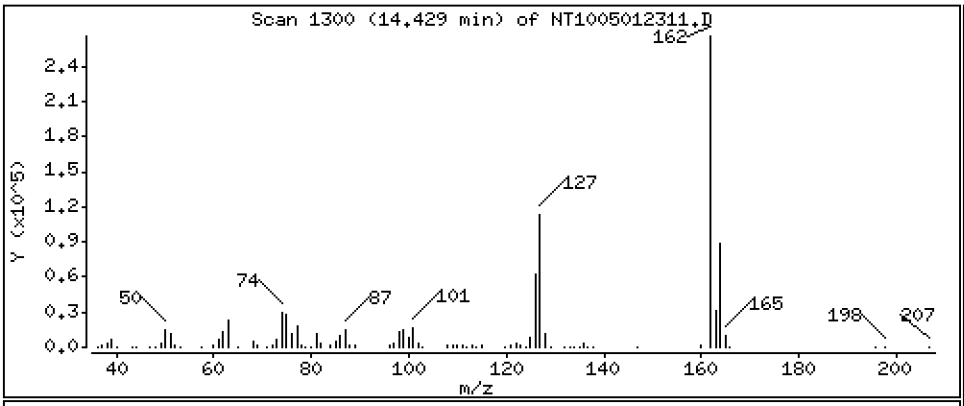
Operator: VTS

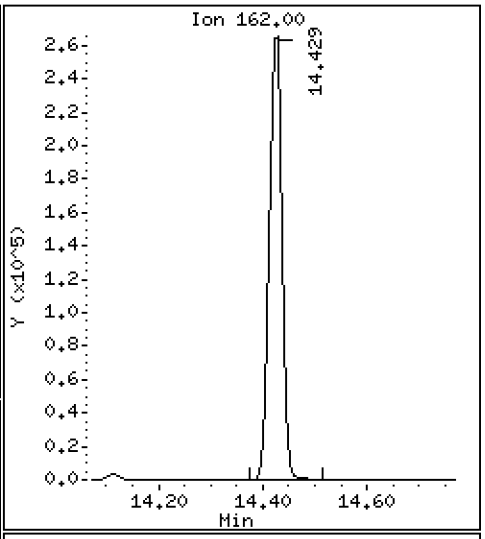
Column phase: ZB-5msi

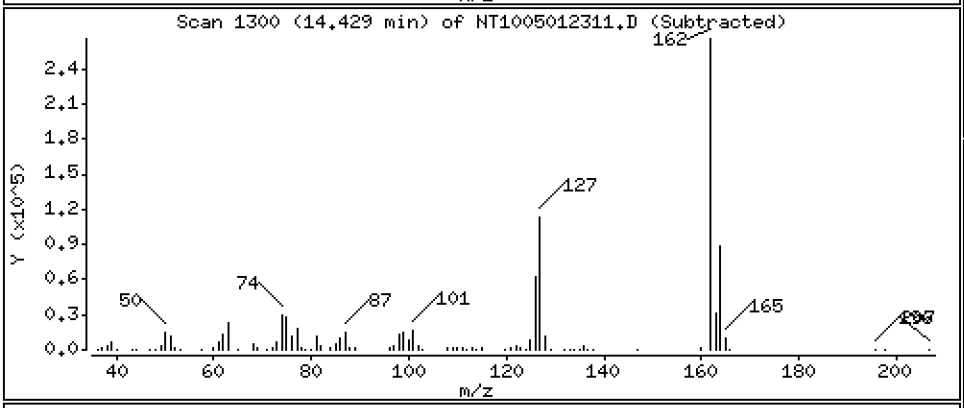
Column diameter: 0.25

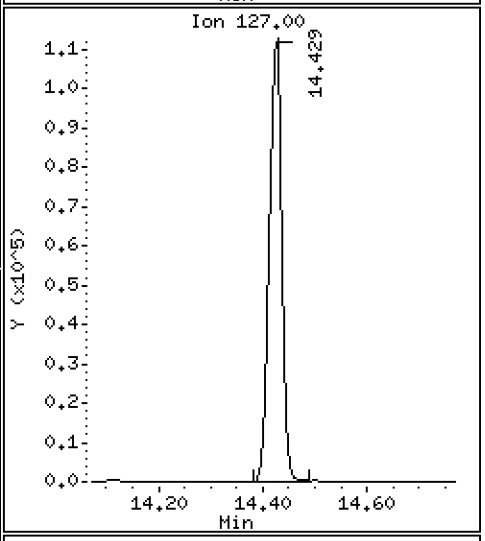
37 2-Chloronaphthalene

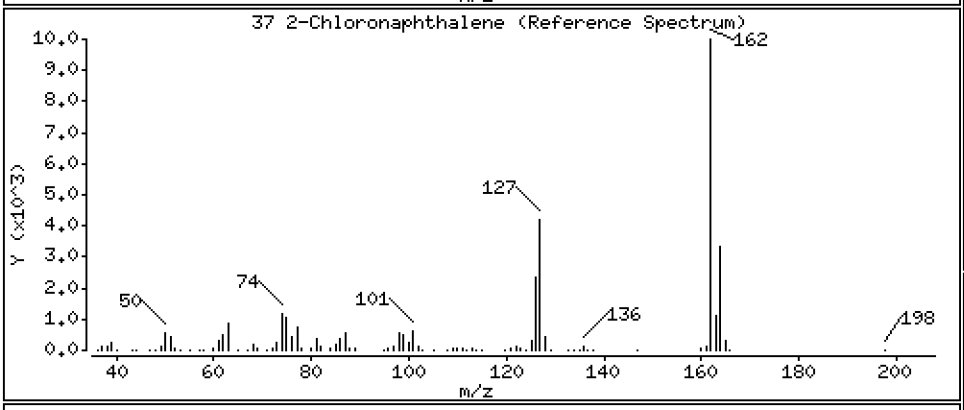
Concentration: 4.830 ug/mL

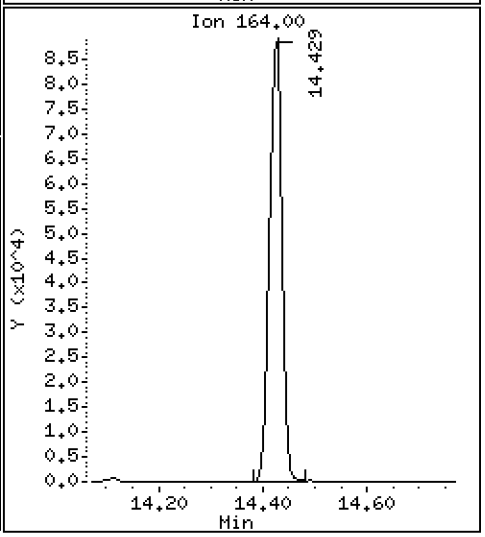


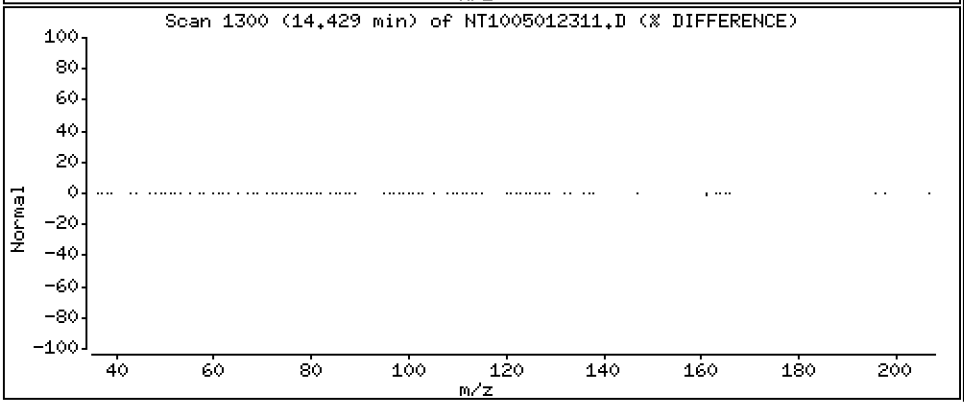












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

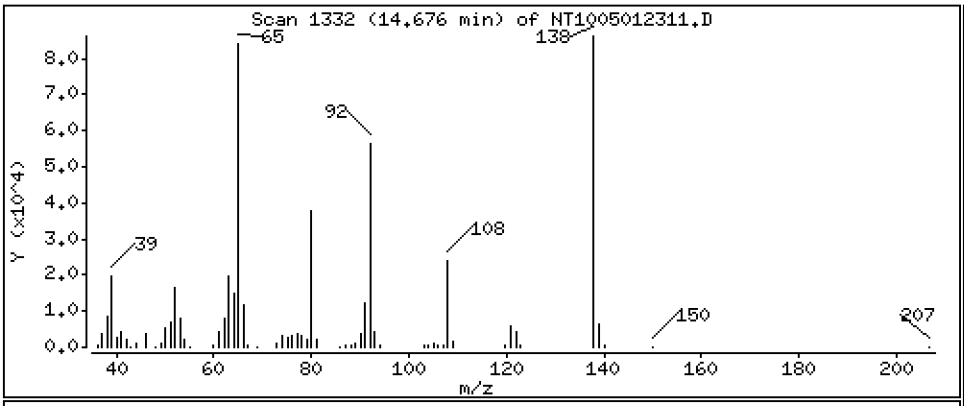
Operator: VTS

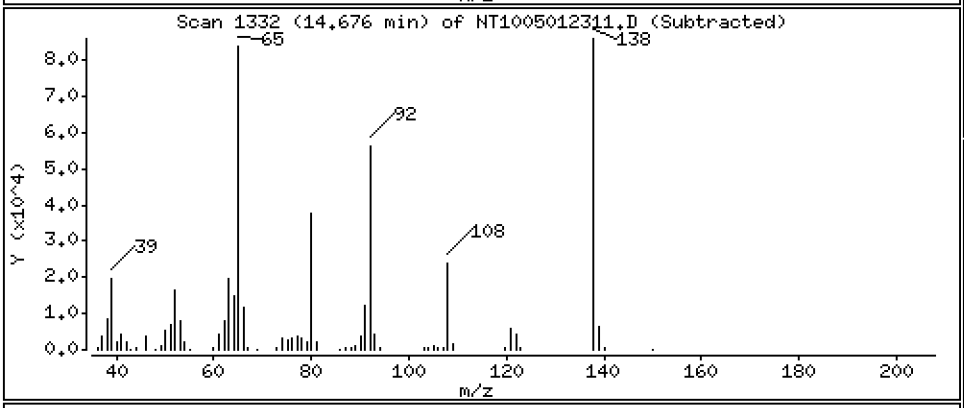
Column phase: ZB-5msi

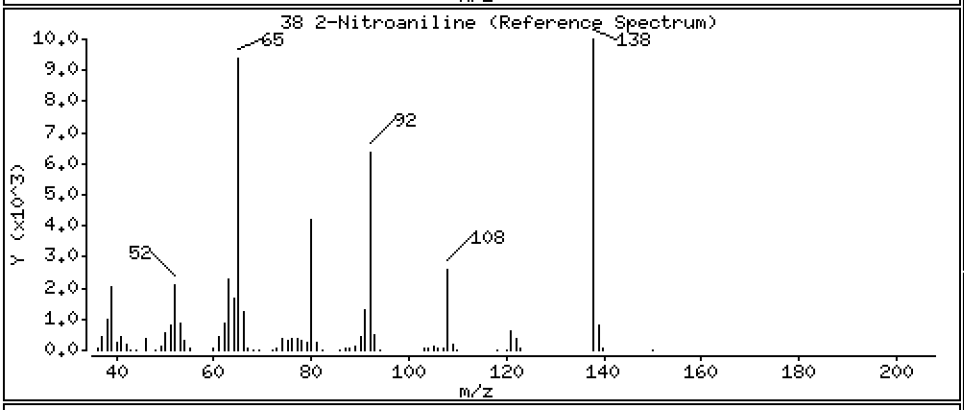
Column diameter: 0.25

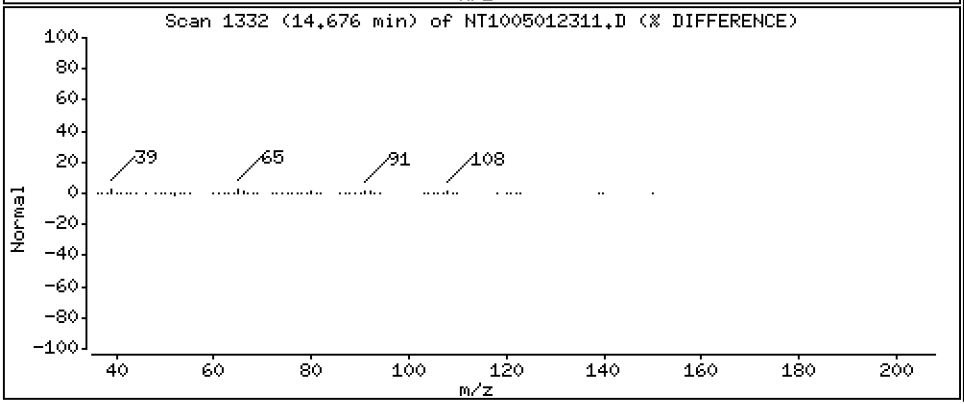
38 2-Nitroaniline

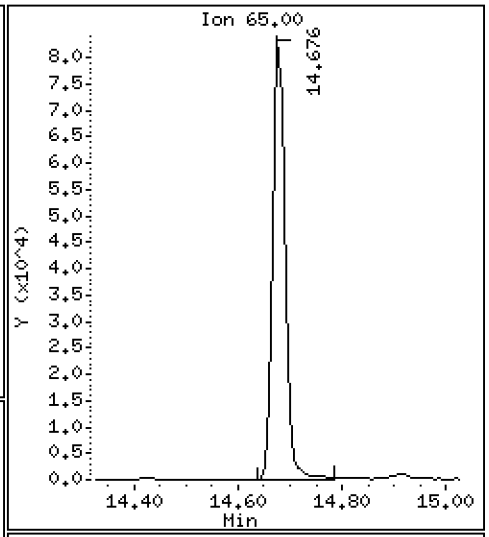
Concentration: 5.029 ug/mL

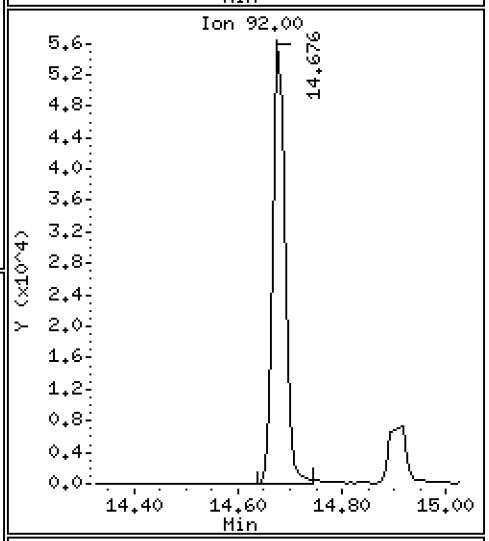


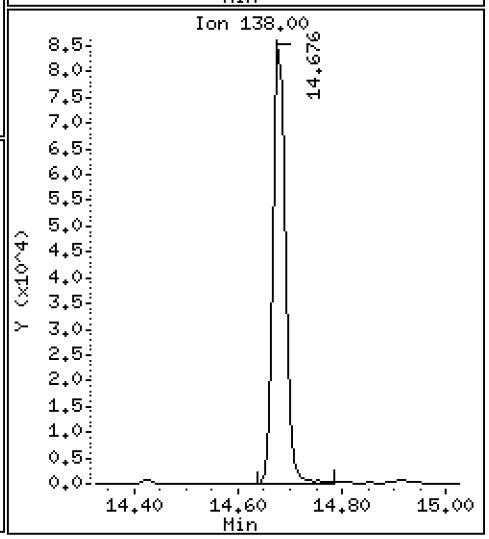












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

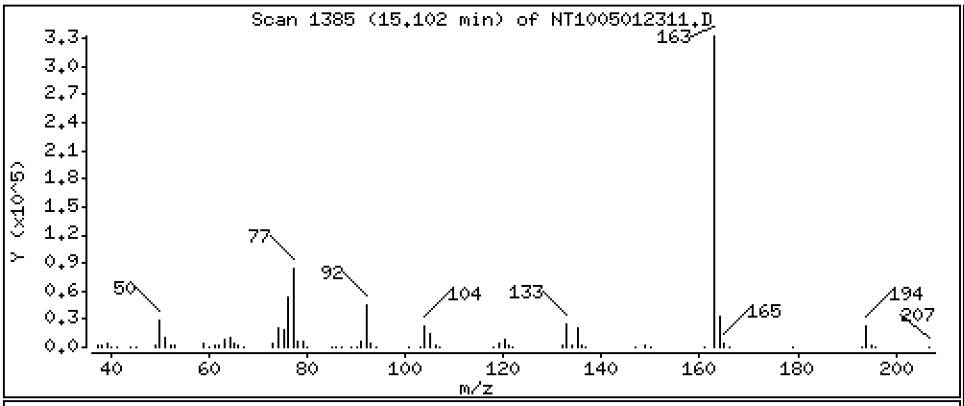
Operator: VTS

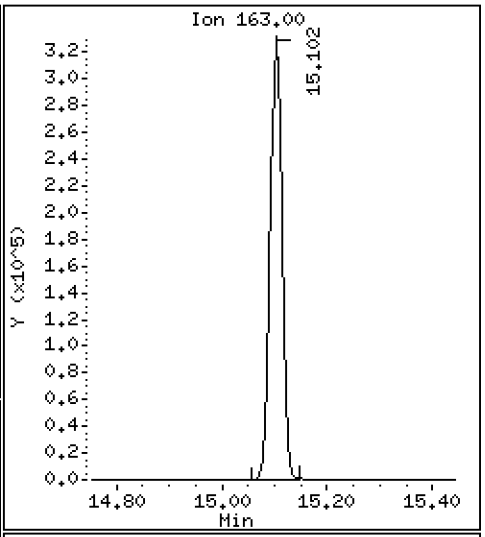
Column phase: ZB-5msi

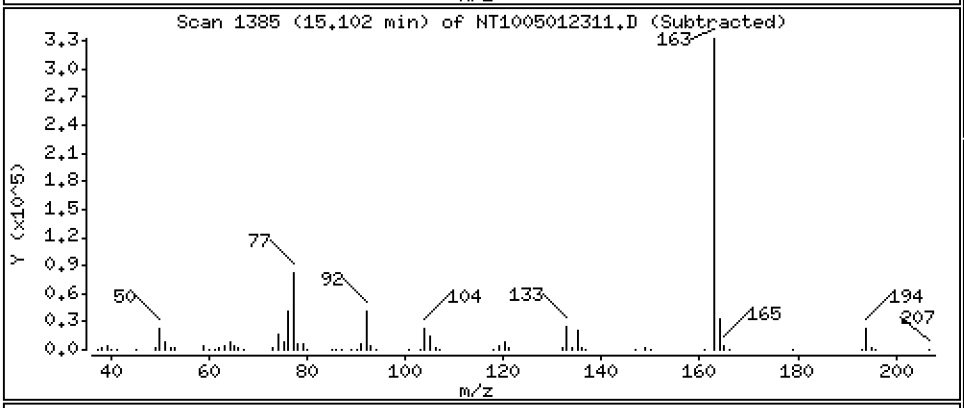
Column diameter: 0.25

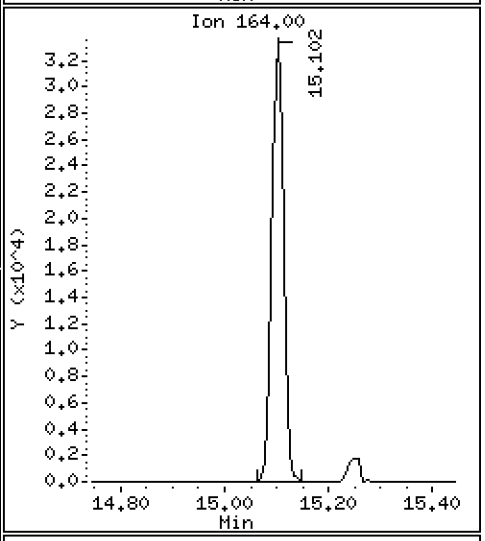
39 Dimethylphthalate

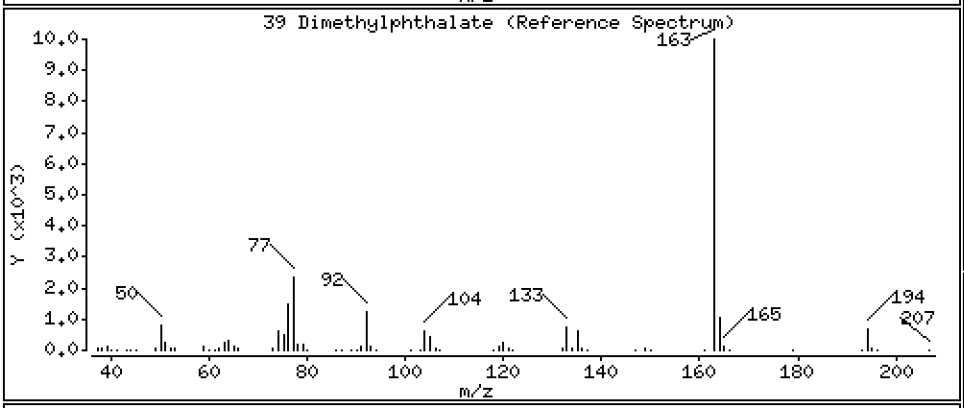
Concentration: 4.908 ug/mL

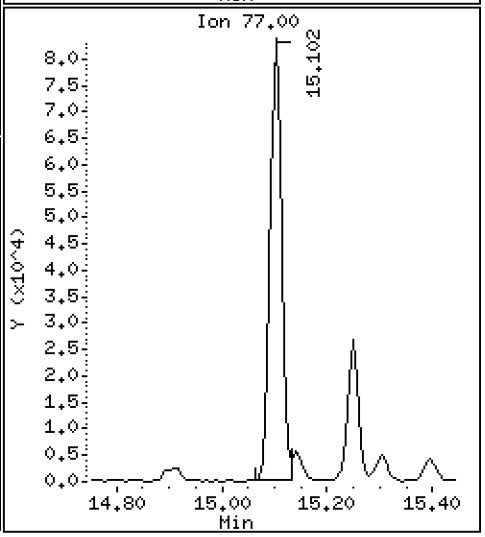


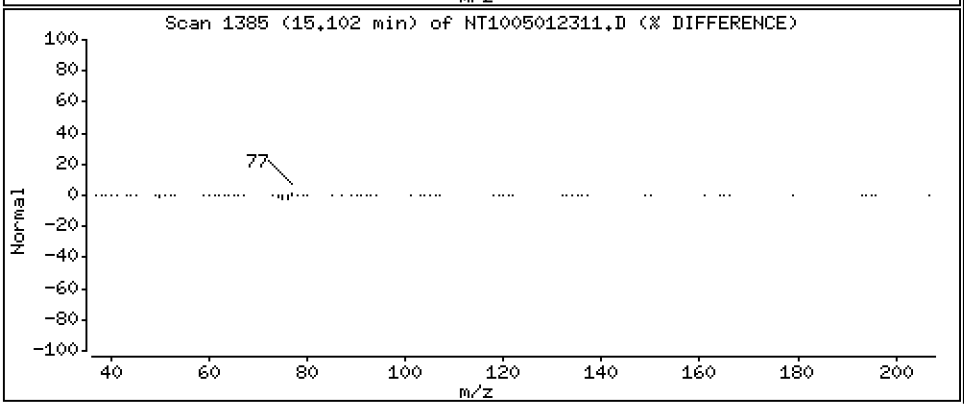












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

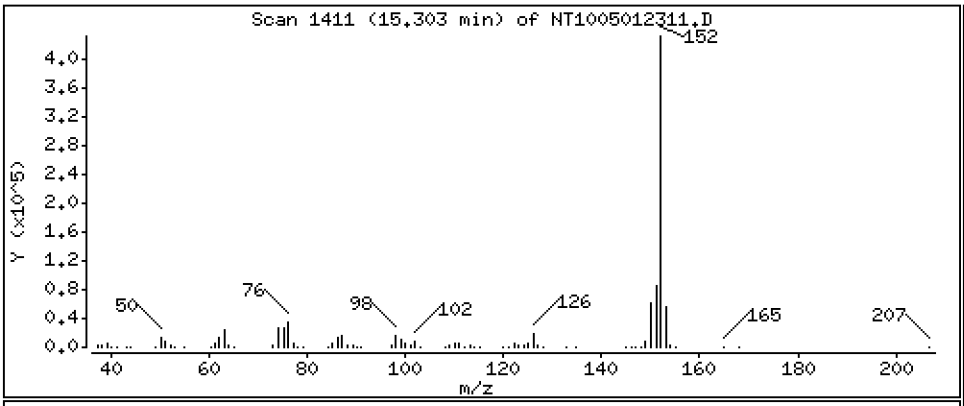
Operator: VTS

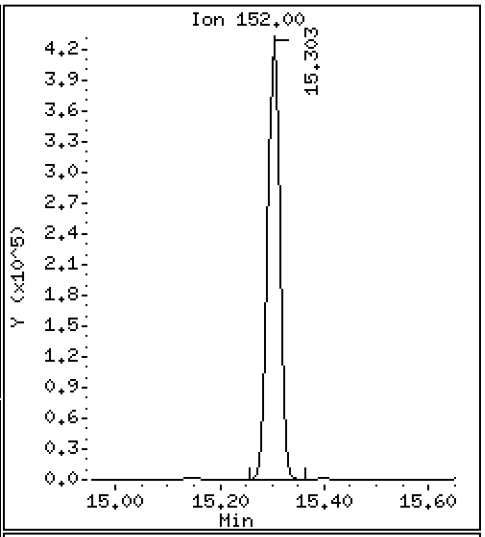
Column phase: ZB-5msi

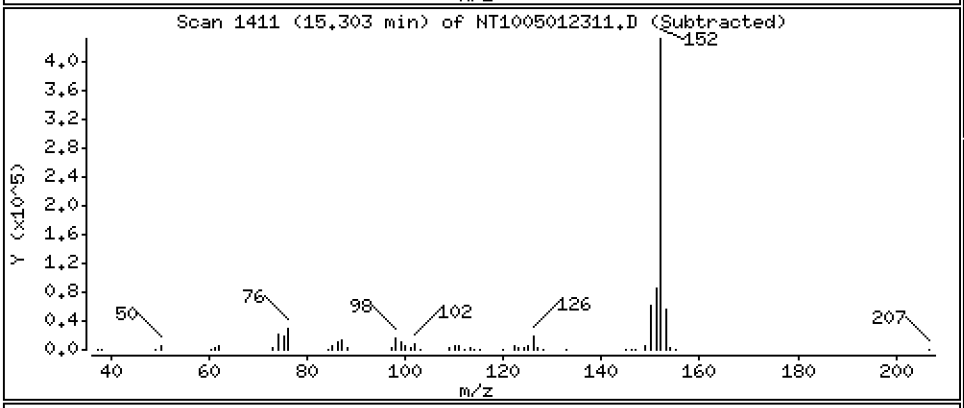
Column diameter: 0.25

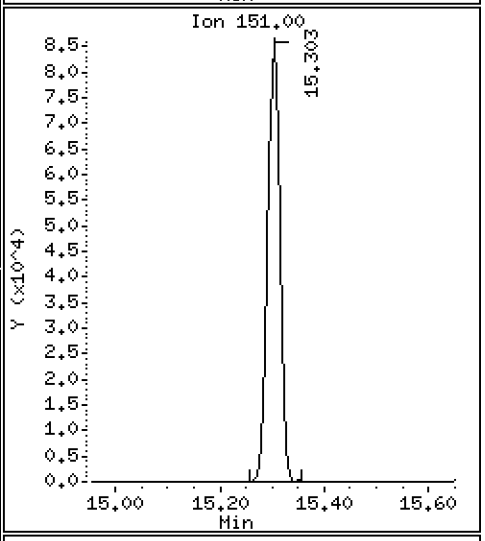
40 Acenaphthylene

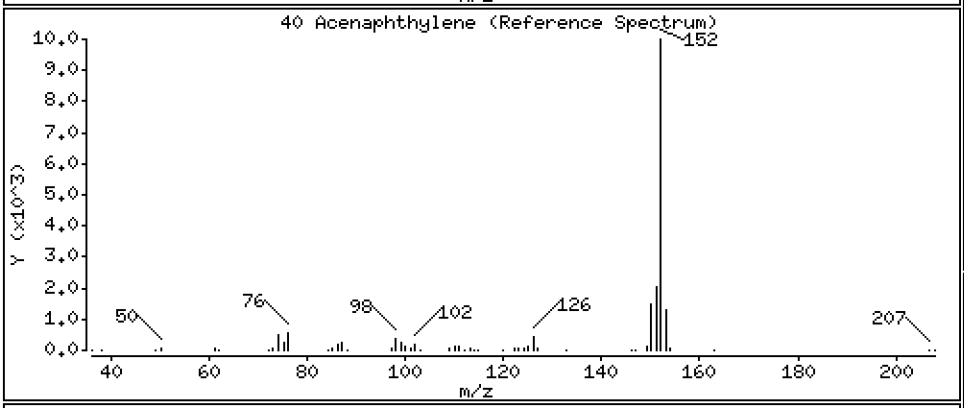
Concentration: 4.776 ug/mL

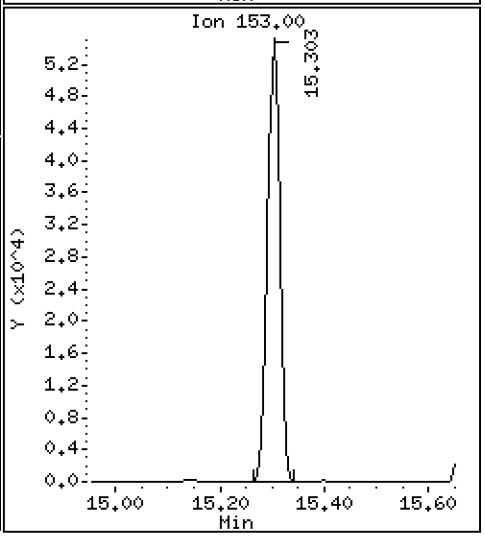


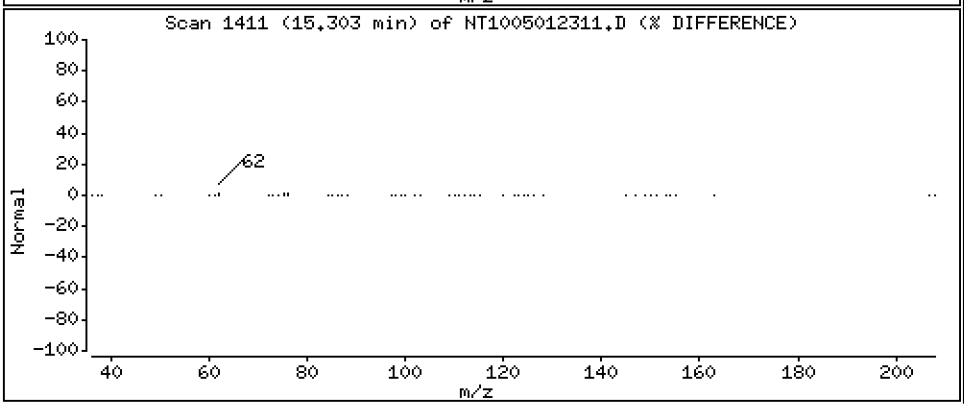












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

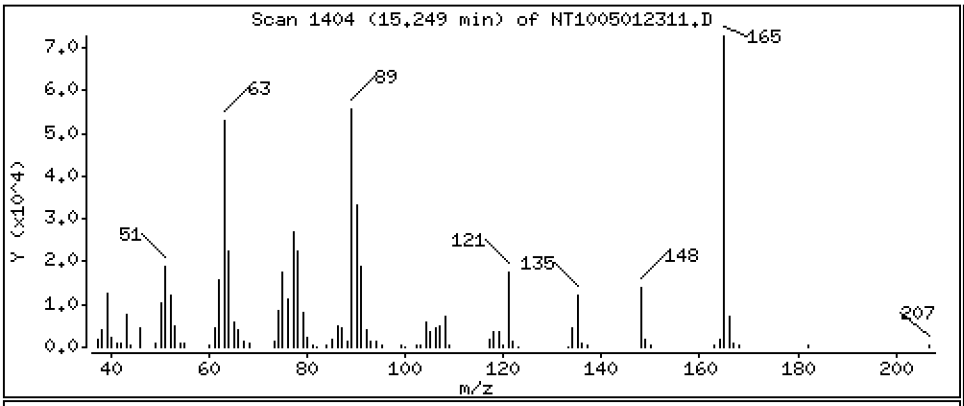
Operator: VTS

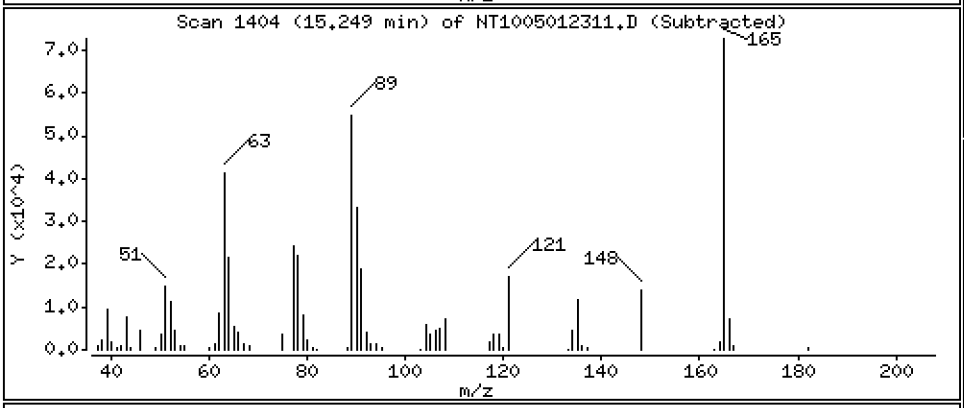
Column phase: ZB-5msi

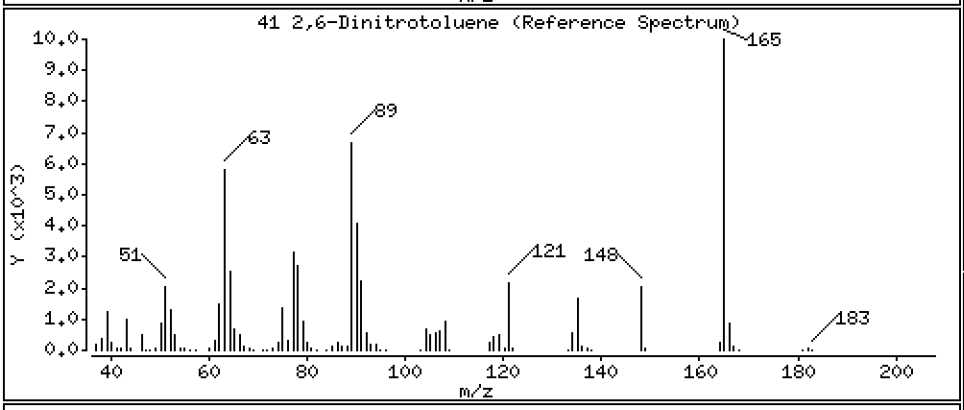
Column diameter: 0.25

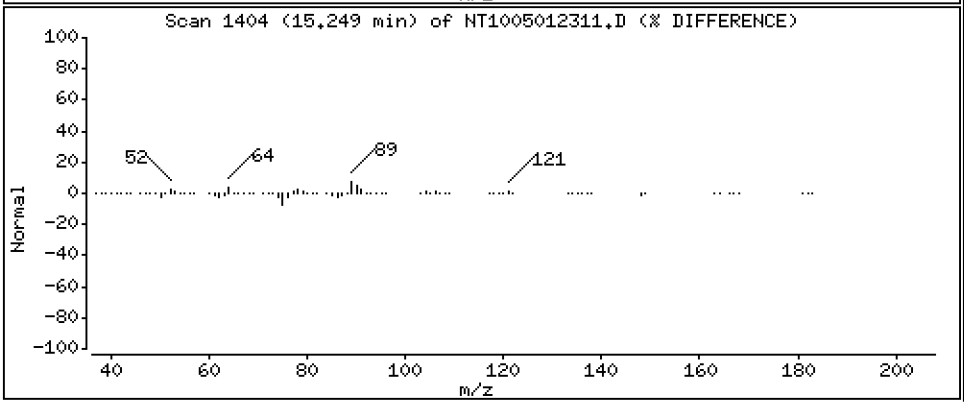
41 2,6-Dinitrotoluene

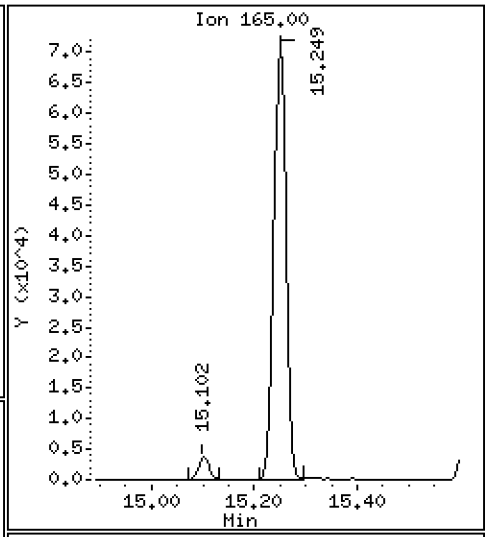
Concentration: 4.876 ug/mL

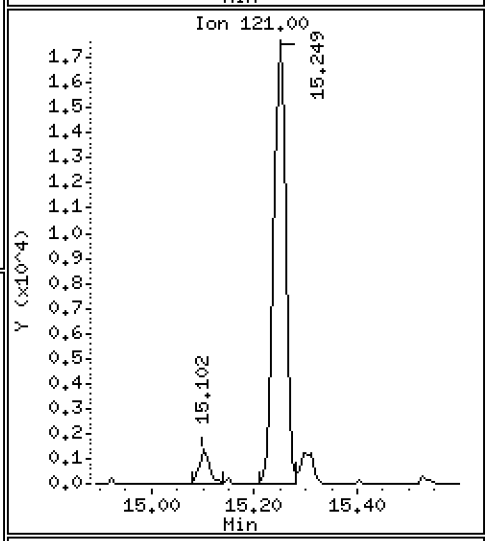


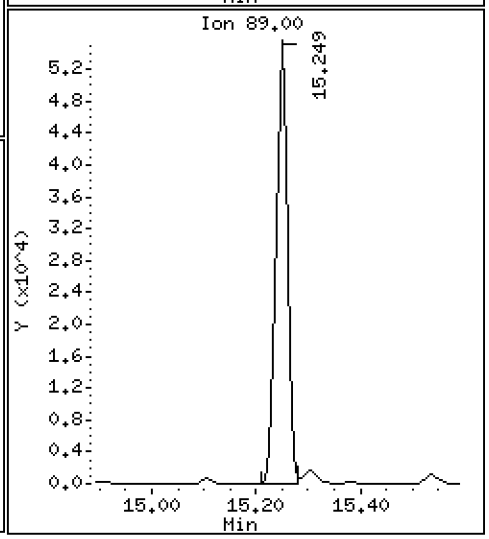












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

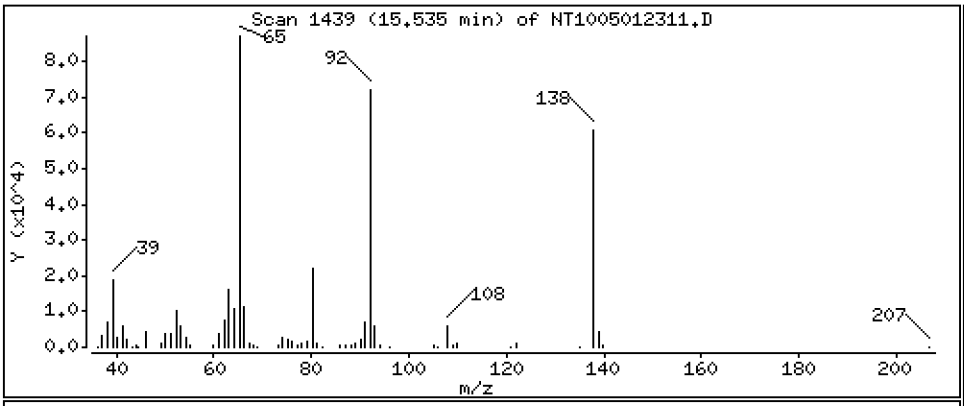
Operator: VTS

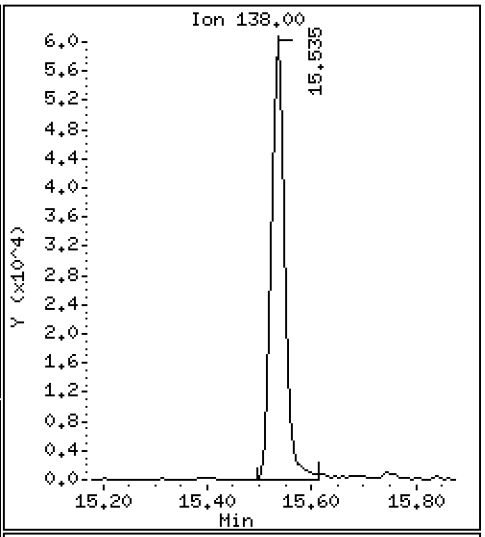
Column phase: ZB-5msi

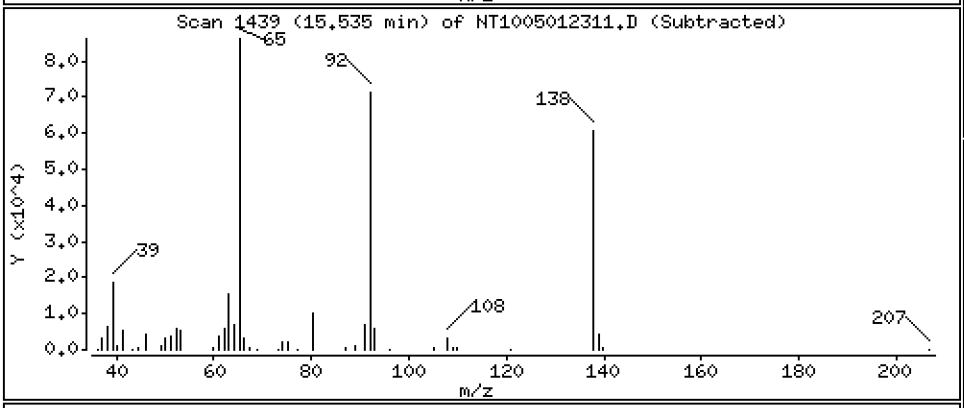
Column diameter: 0.25

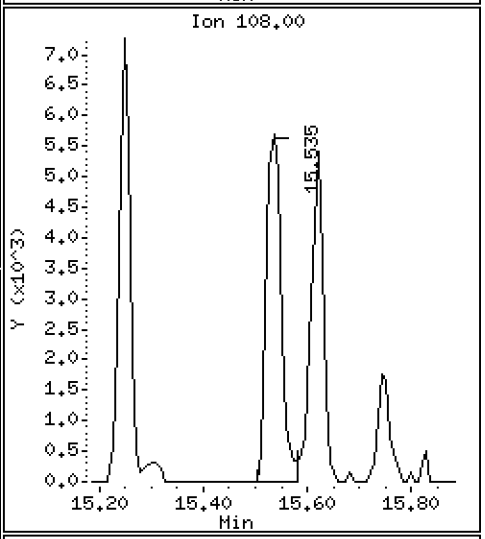
43 3-Nitroaniline

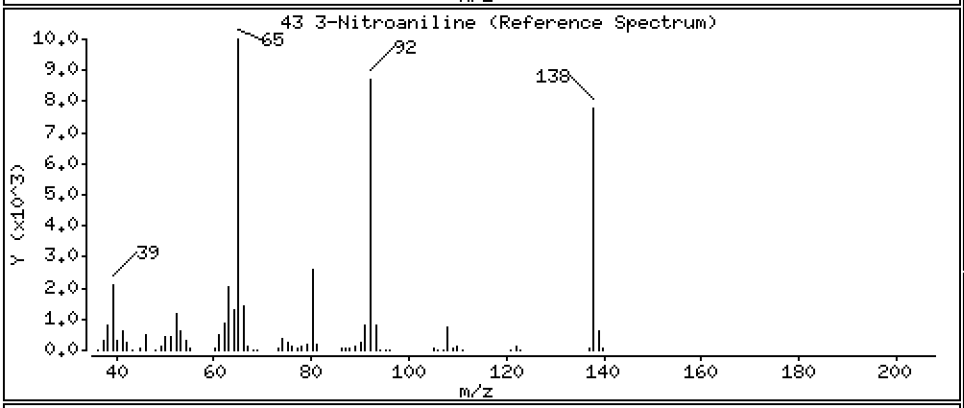
Concentration: 4.776 ug/mL

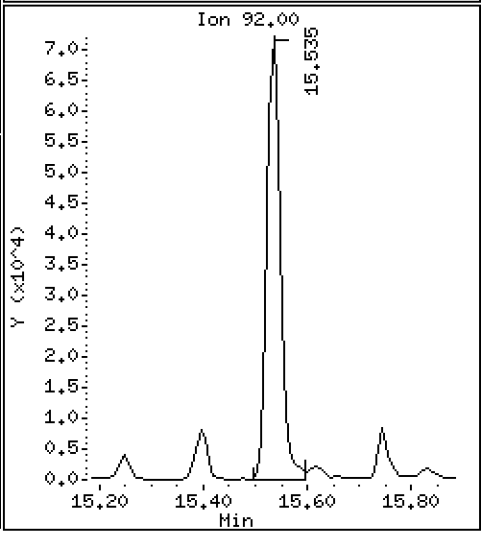


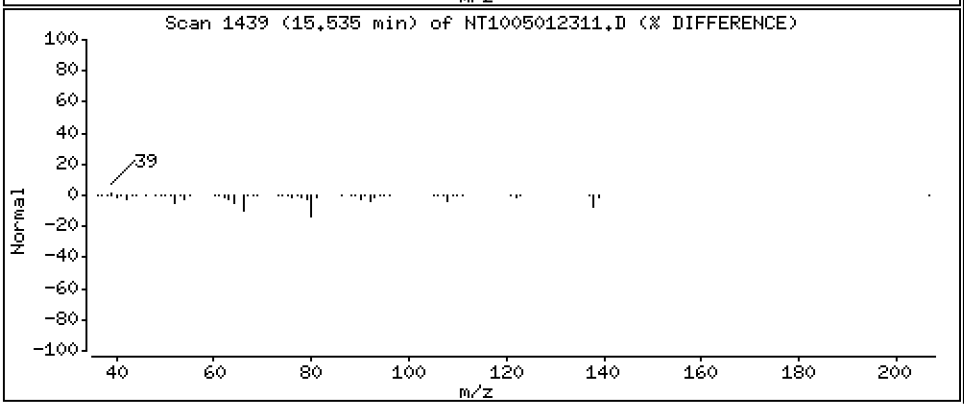












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

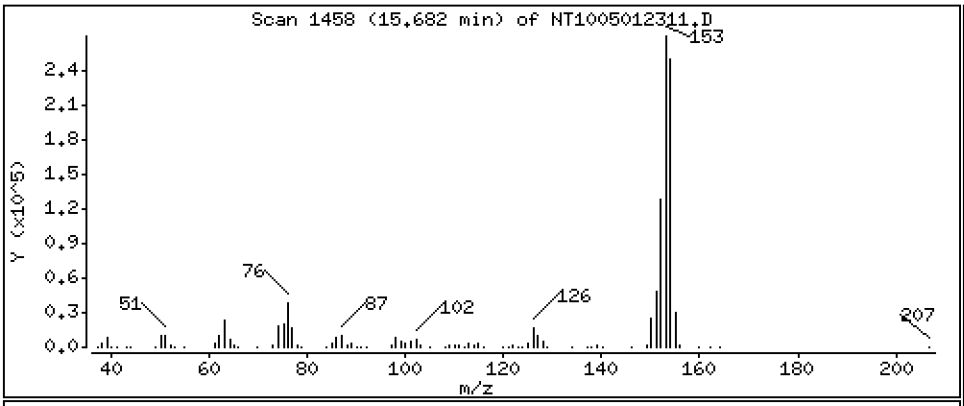
Operator: VTS

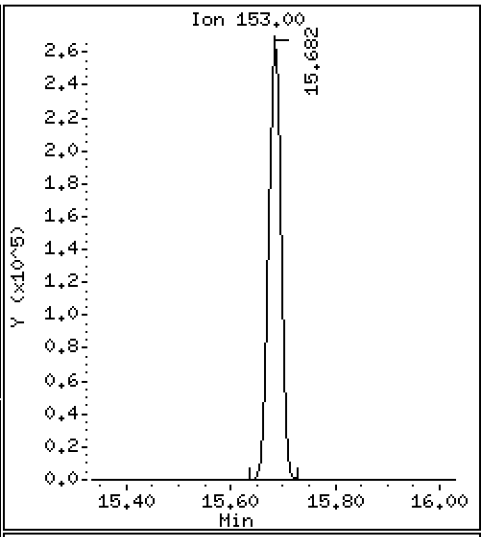
Column phase: ZB-5msi

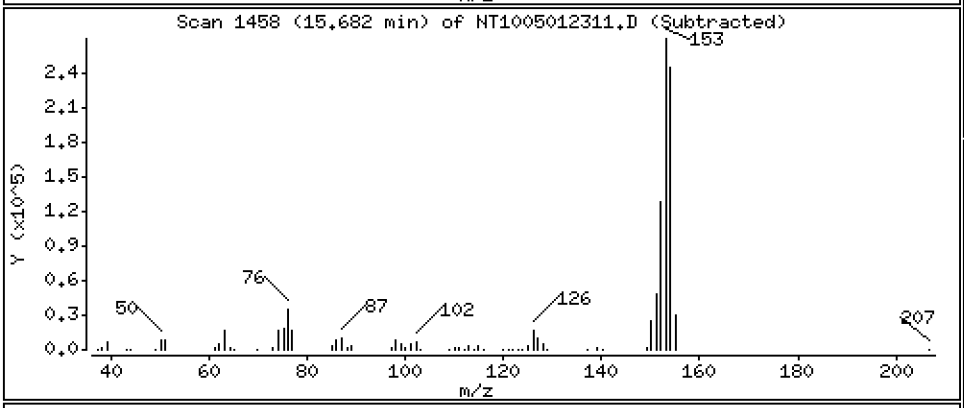
Column diameter: 0.25

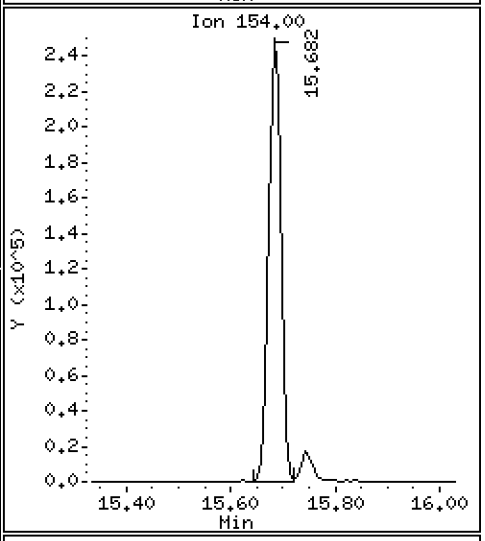
44 Acenaphthene

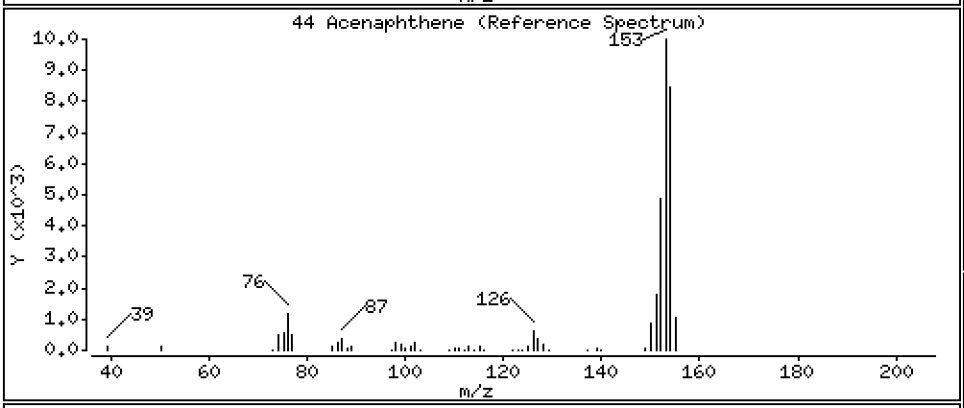
Concentration: 4.716 ug/mL

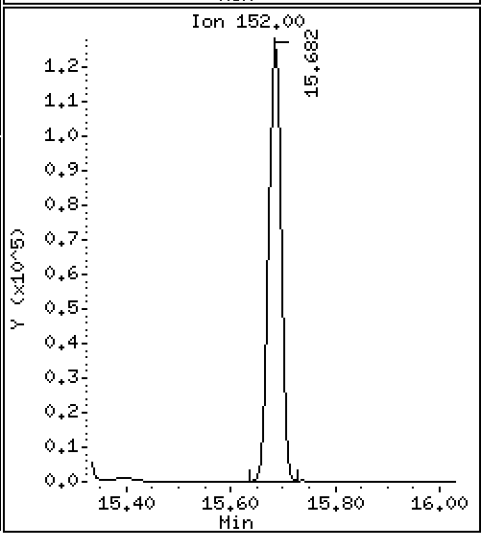


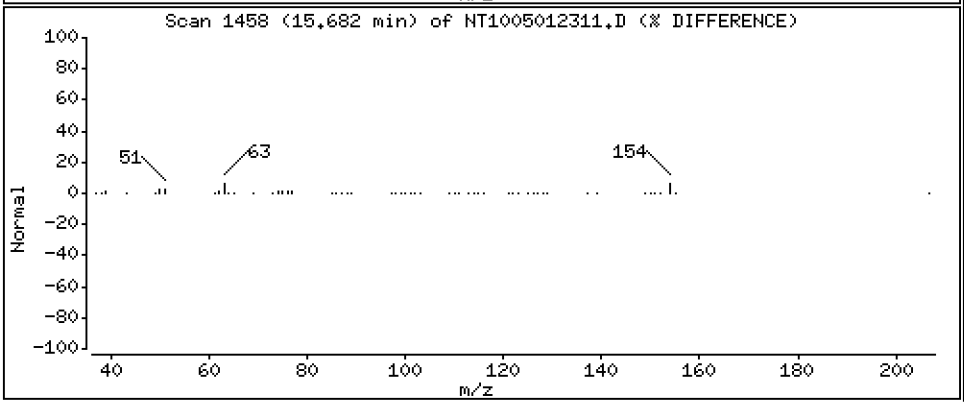












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

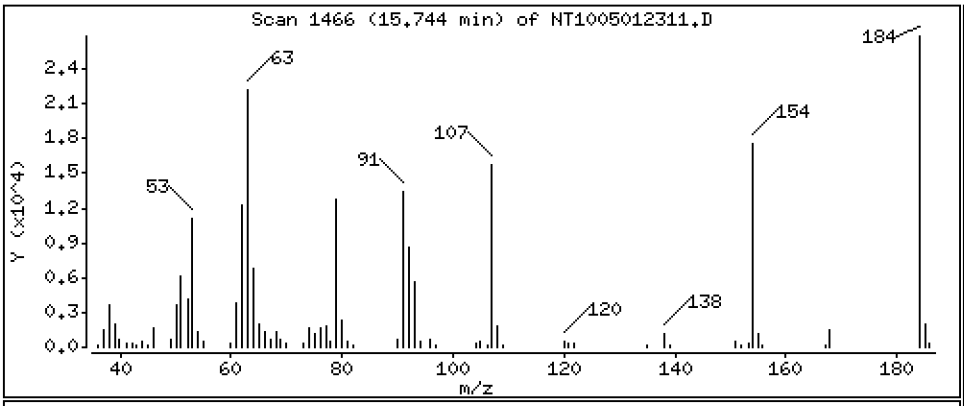
Operator: VTS

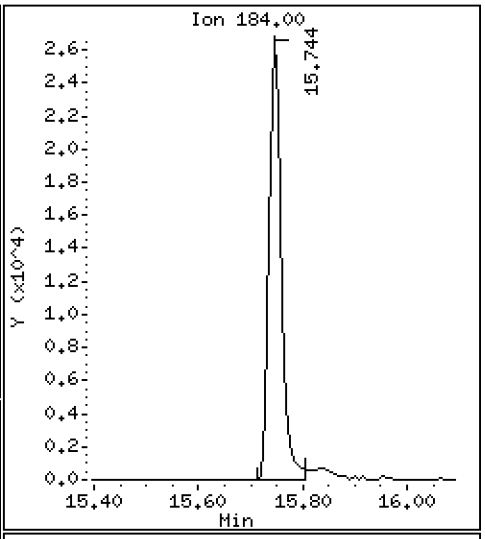
Column phase: ZB-5msi

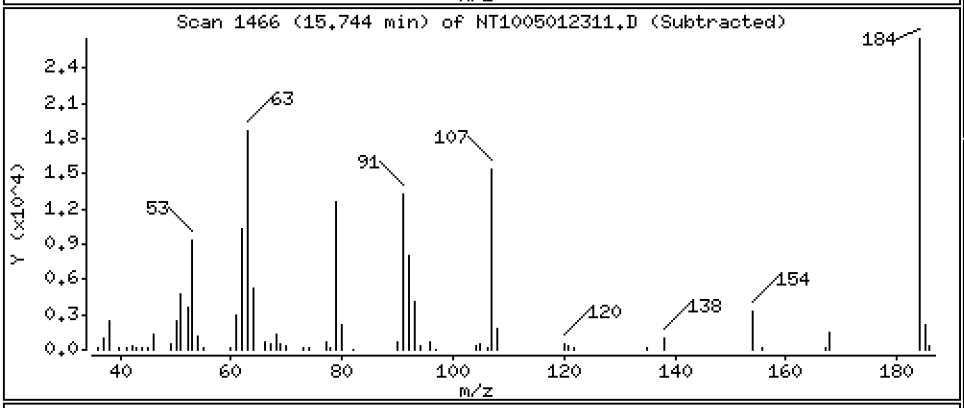
Column diameter: 0.25

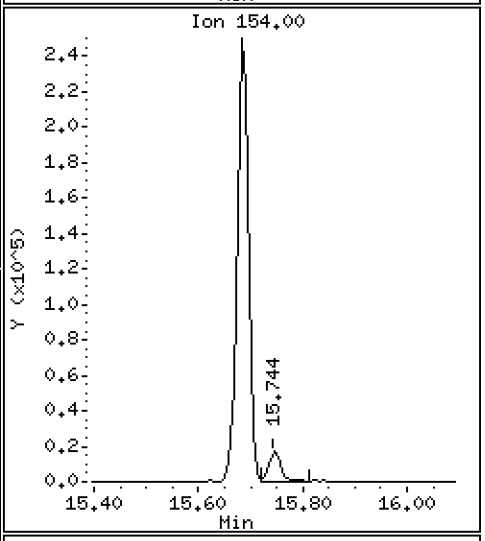
45 2,4-Dinitrophenol

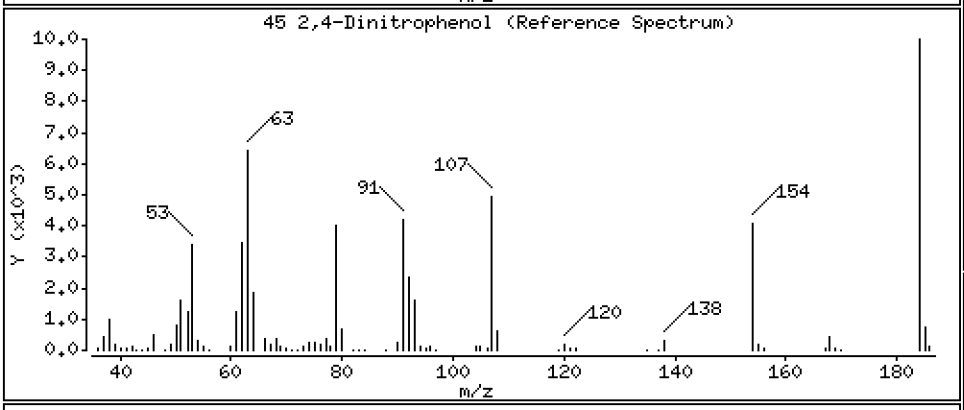
Concentration: 2.376 ug/mL

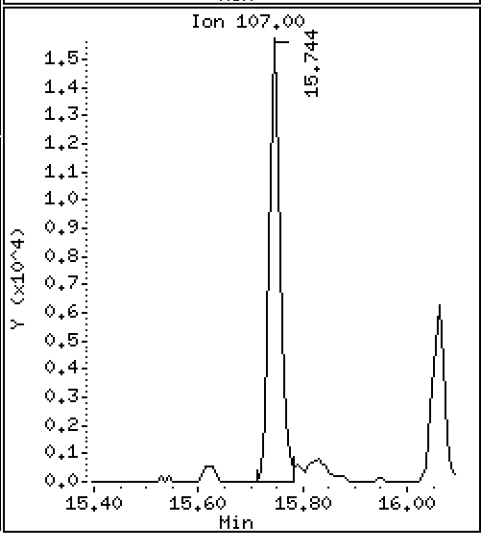


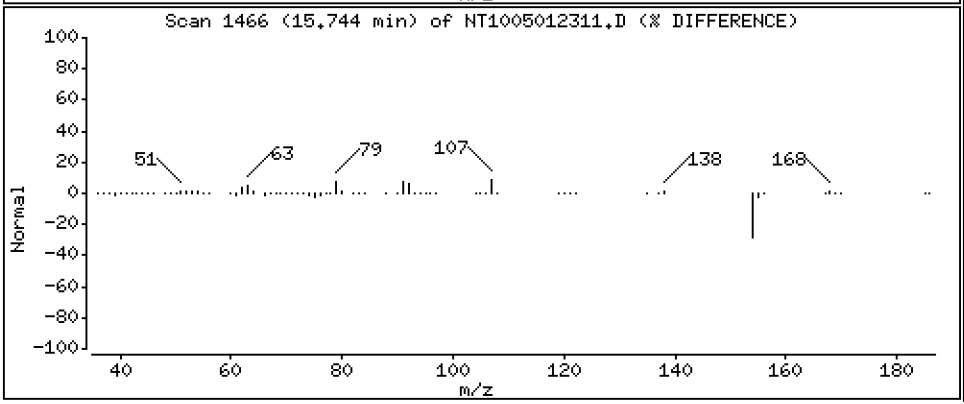












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

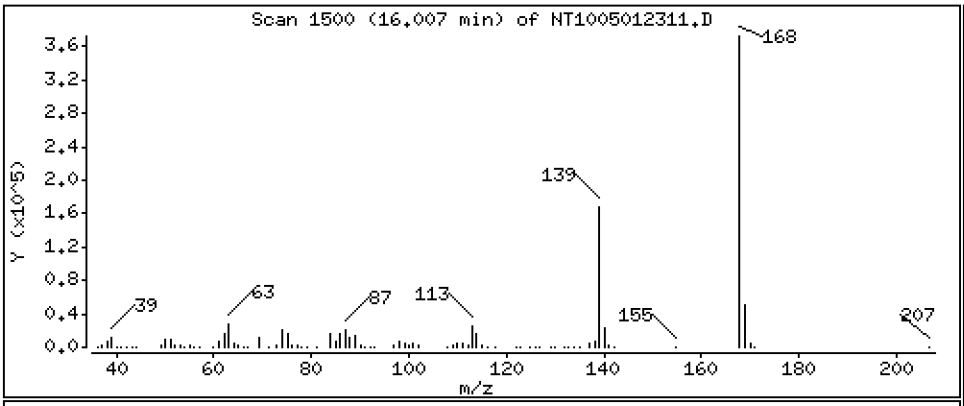
Operator: VTS

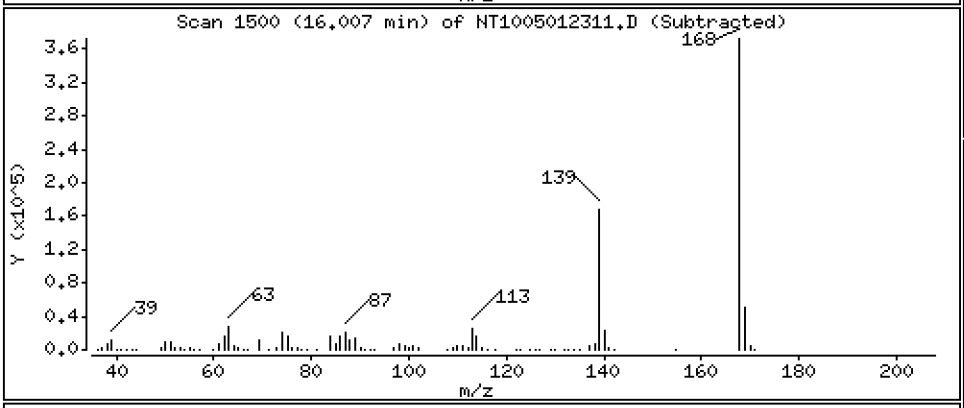
Column phase: ZB-5msi

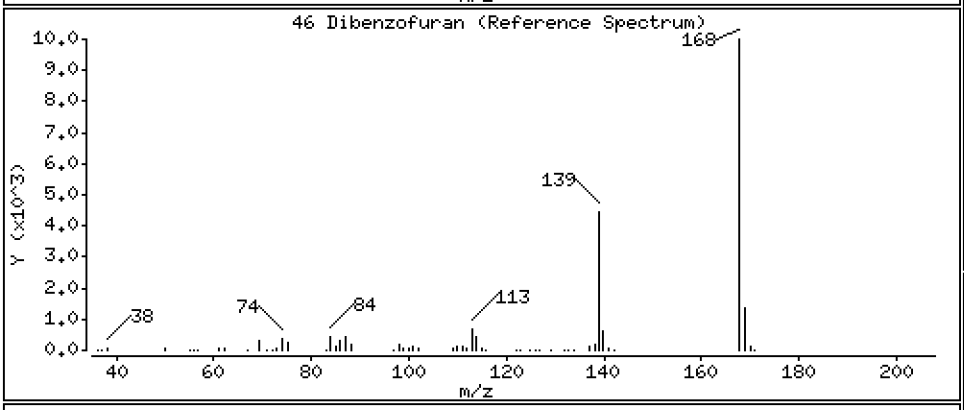
Column diameter: 0.25

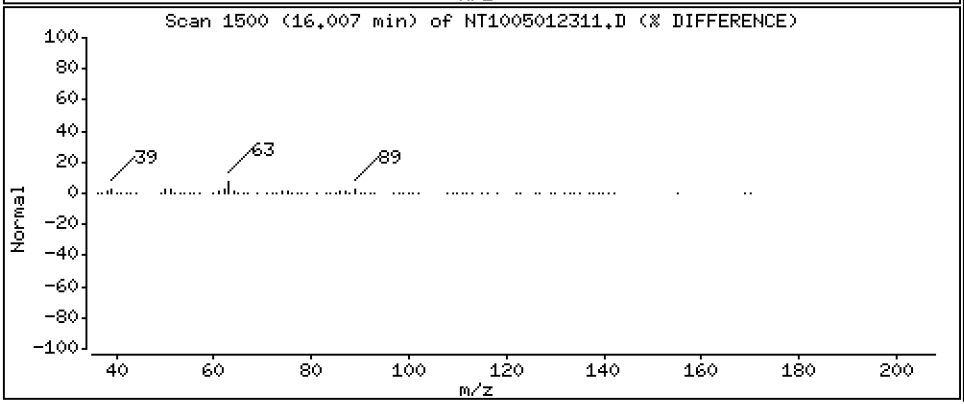
46 Dibenzofuran

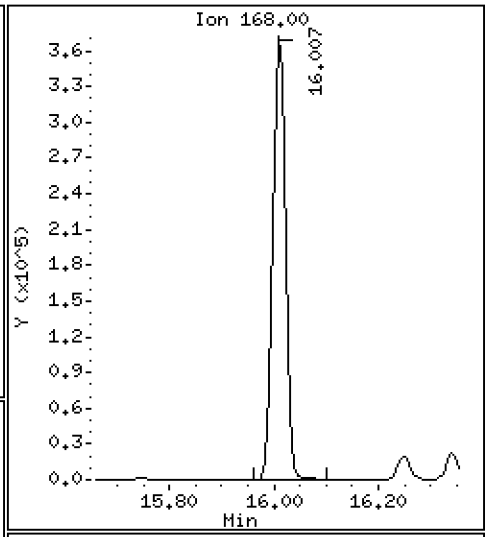
Concentration: 4.645 ug/mL

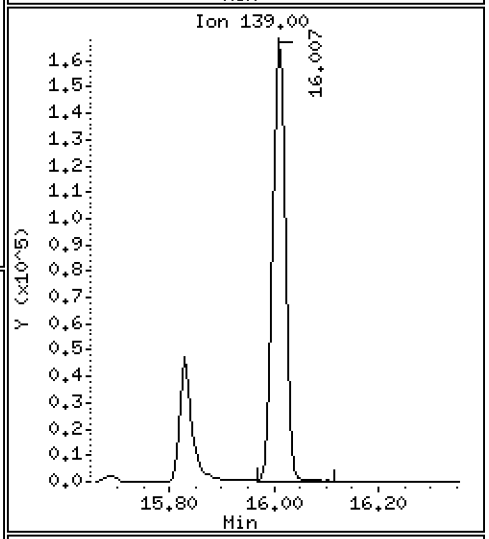


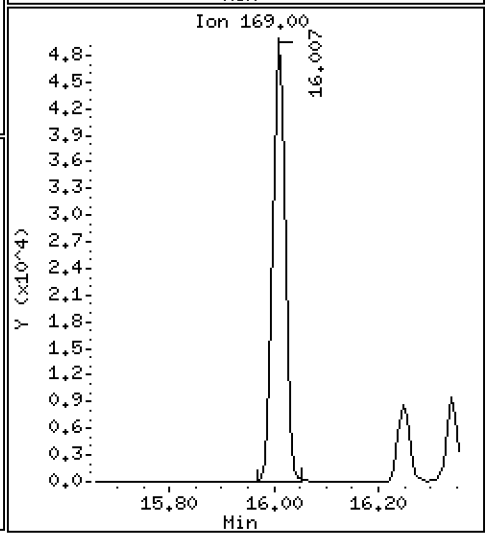












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

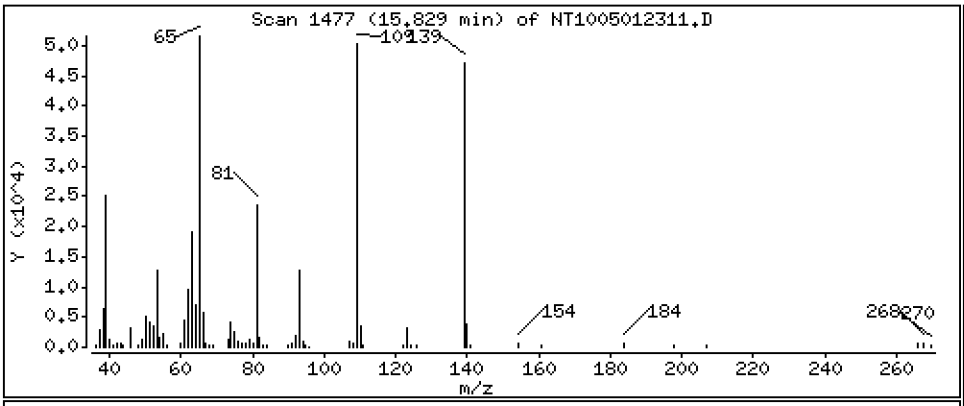
Operator: VTS

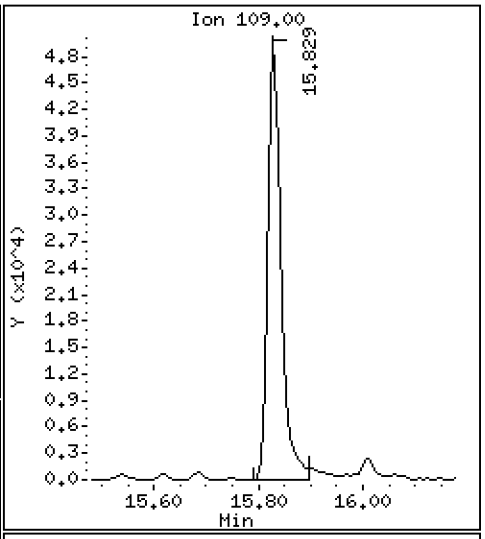
Column phase: ZB-5msi

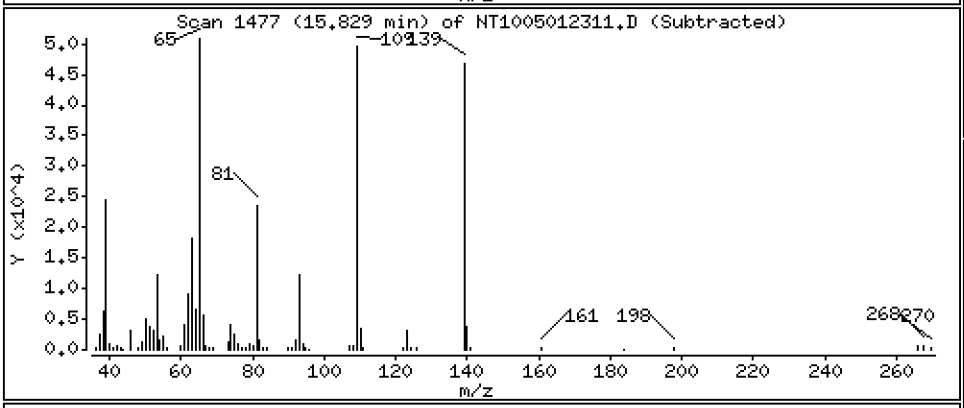
Column diameter: 0.25

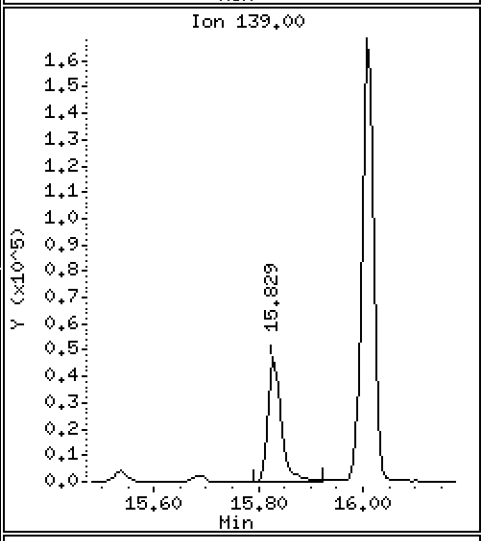
47 4-Nitrophenol

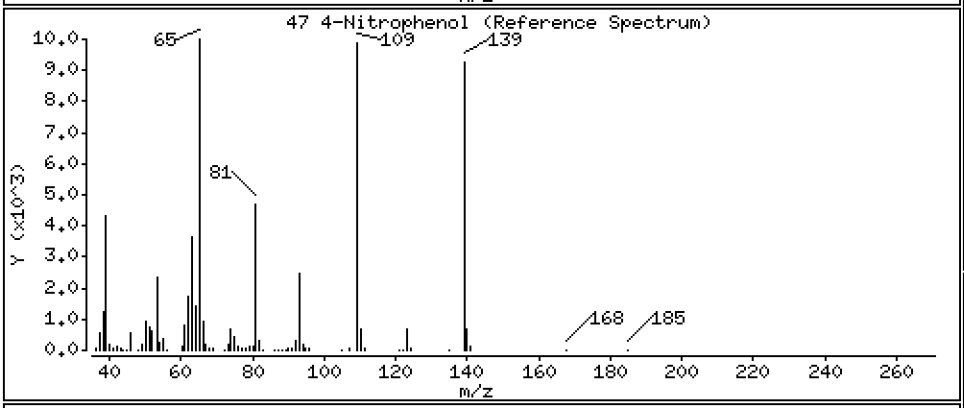
Concentration: 3.992 ug/mL

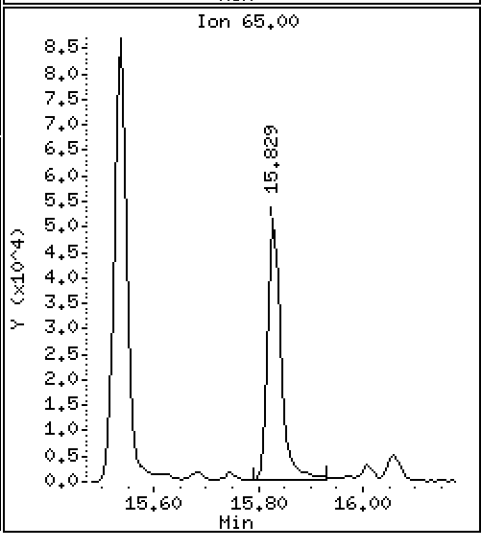


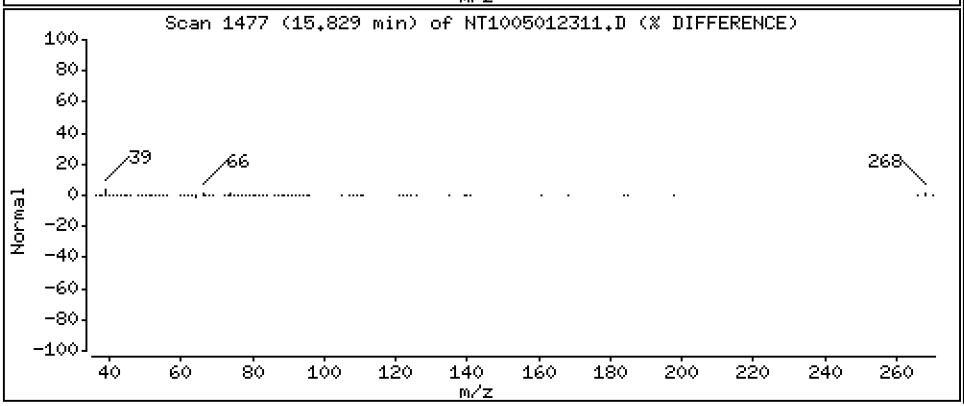












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

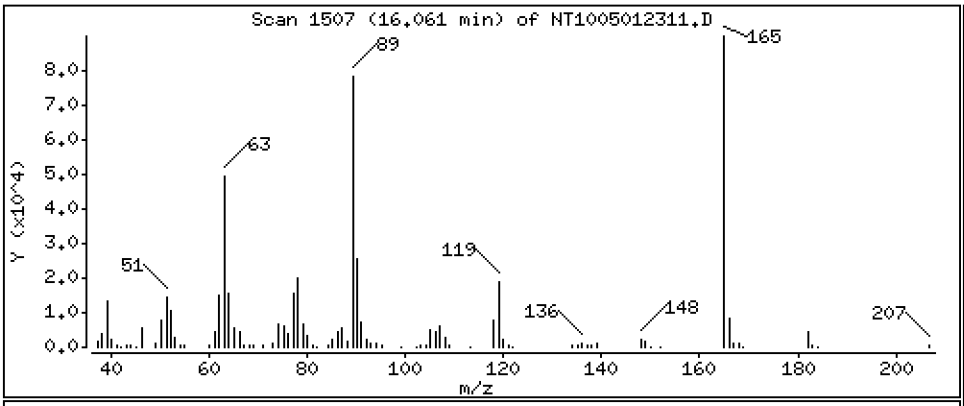
Operator: VTS

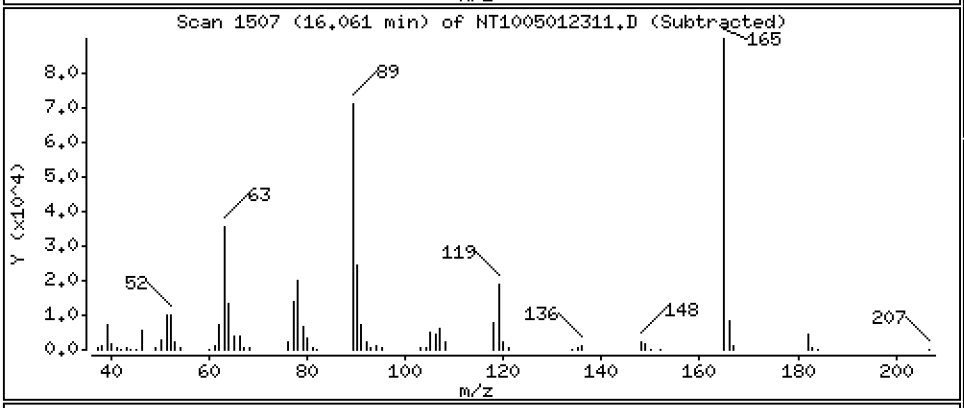
Column phase: ZB-5msi

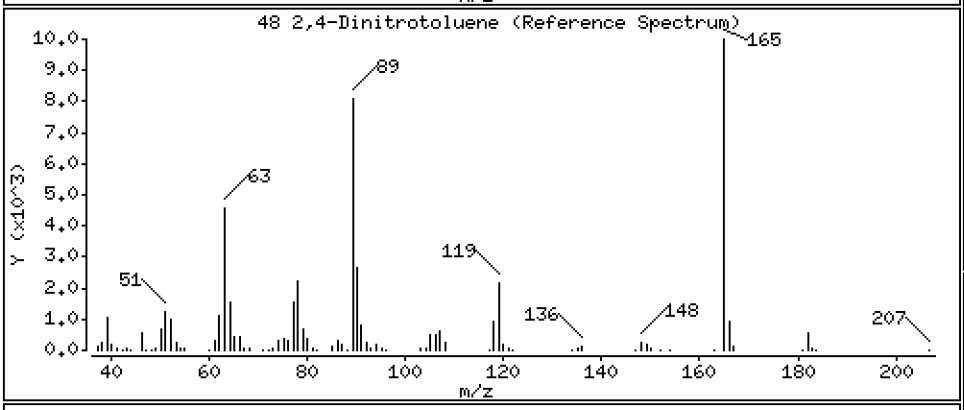
Column diameter: 0.25

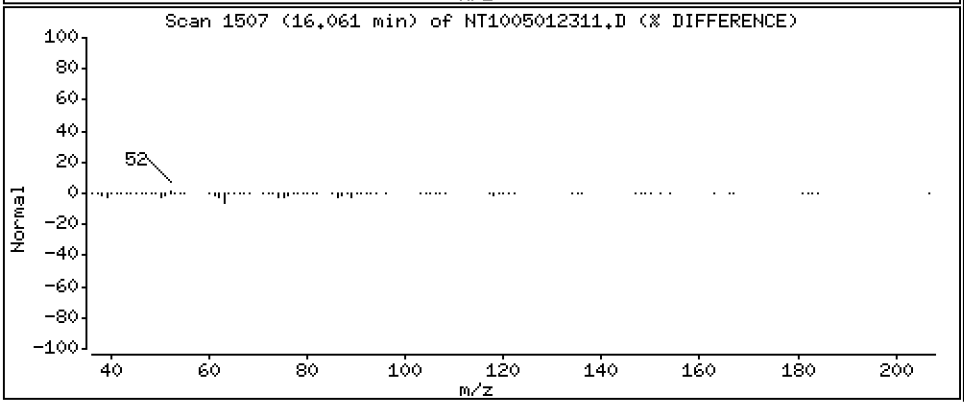
48 2,4-Dinitrotoluene

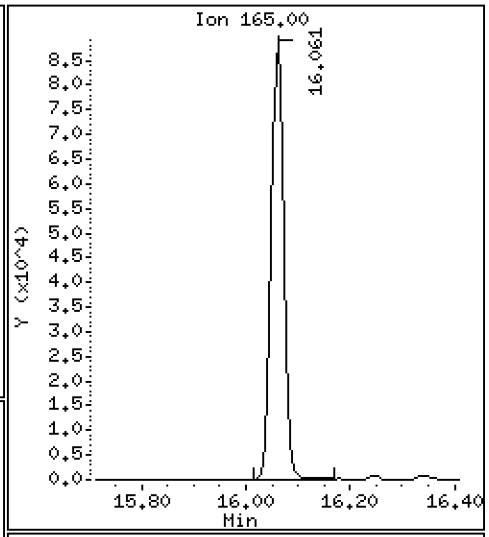
Concentration: 4.381 ug/mL

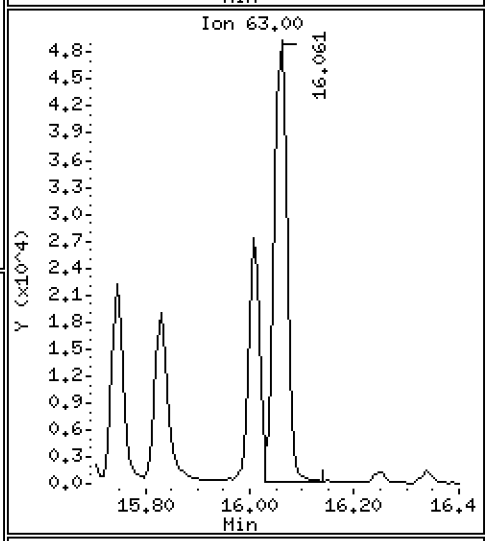


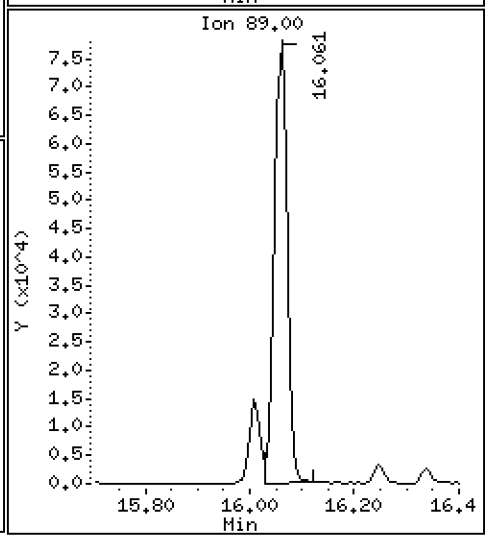












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

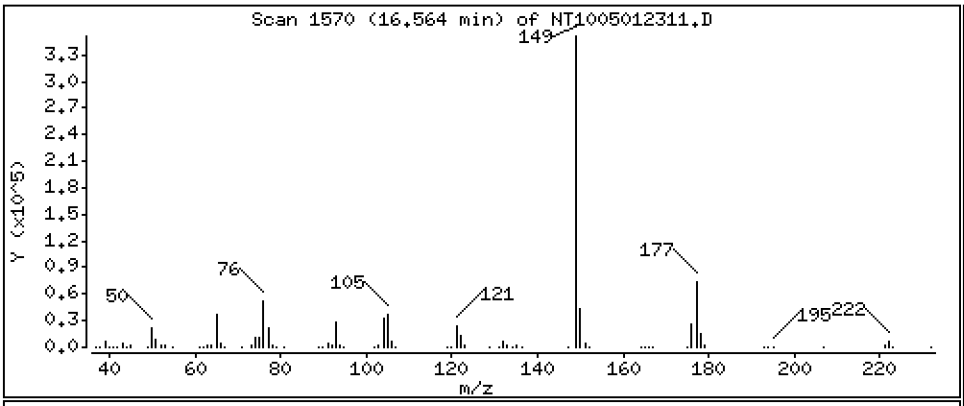
Operator: VTS

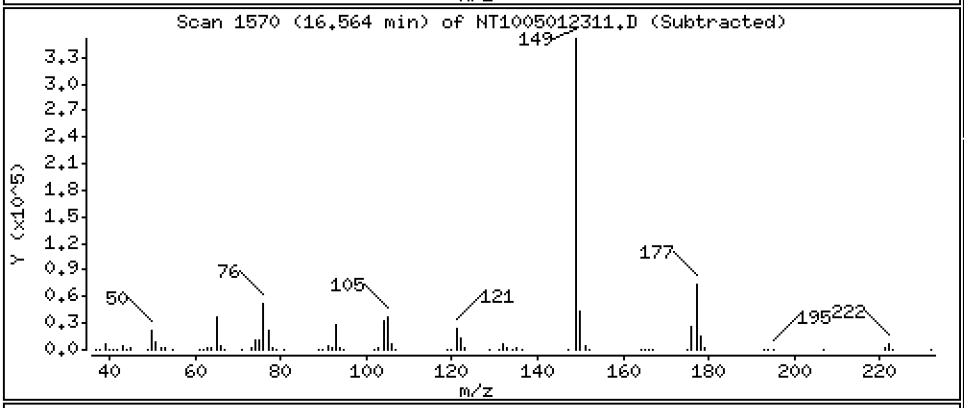
Column phase: ZB-5msi

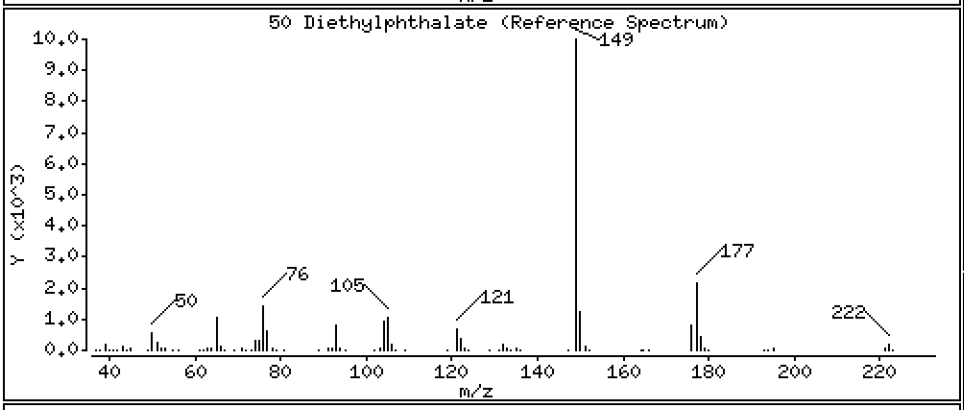
Column diameter: 0.25

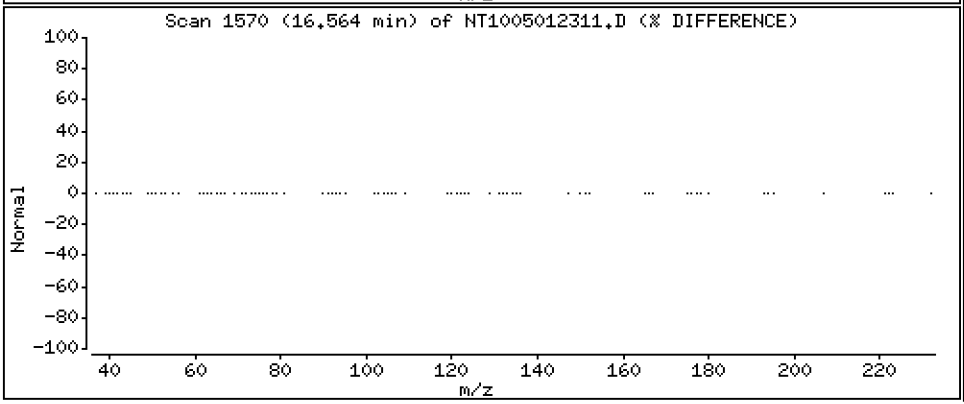
50 Diethylphthalate

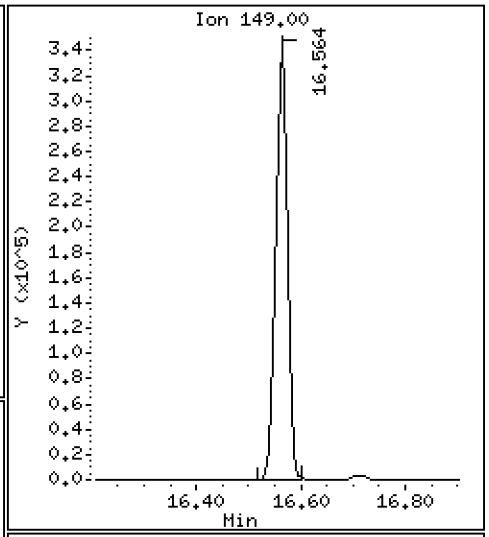
Concentration: 5.055 ug/mL

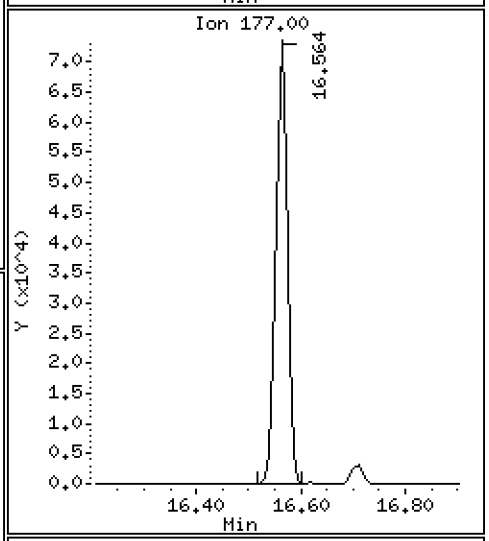


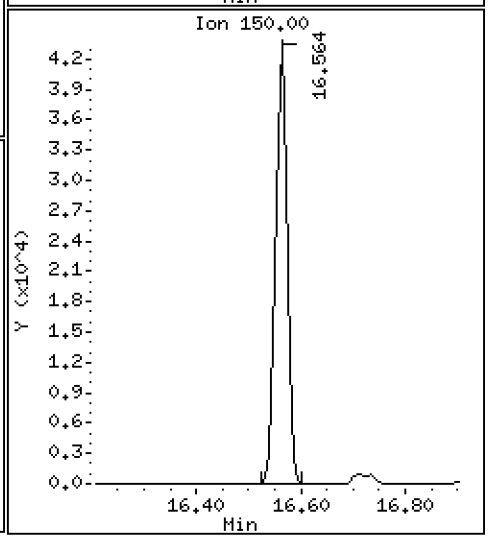












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

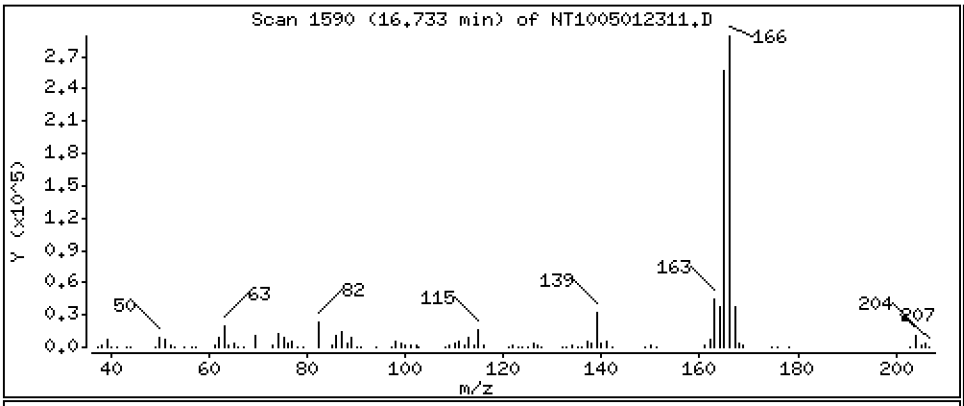
Operator: VTS

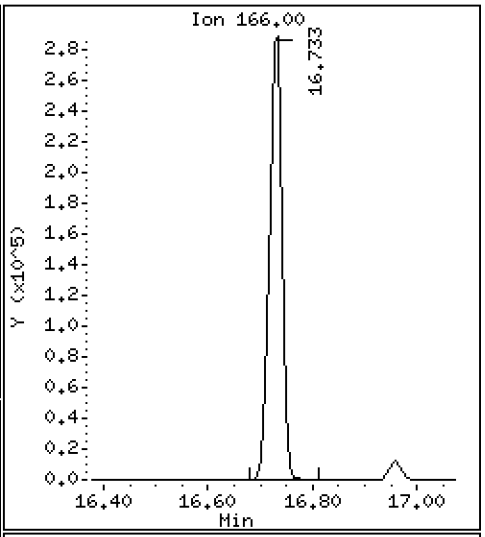
Column phase: ZB-5msi

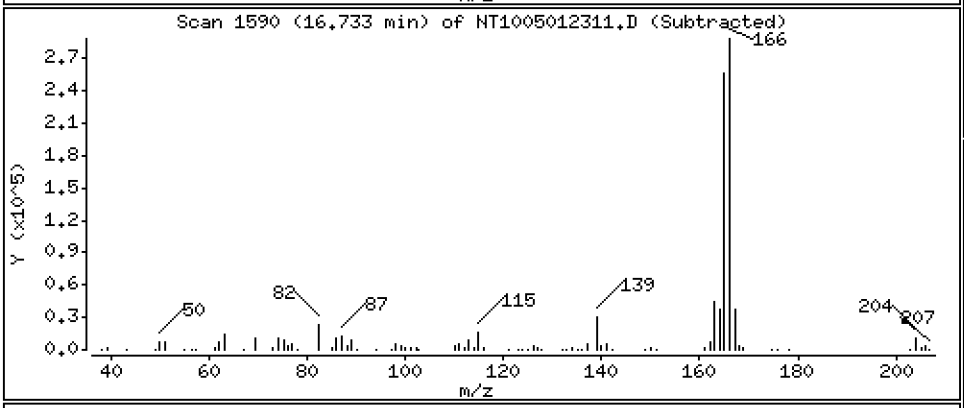
Column diameter: 0.25

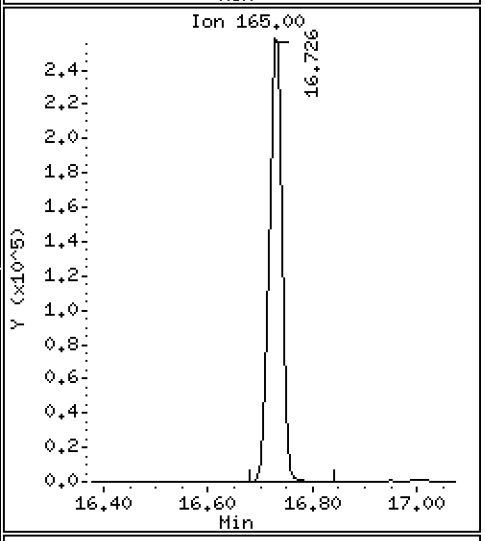
49 Fluorene

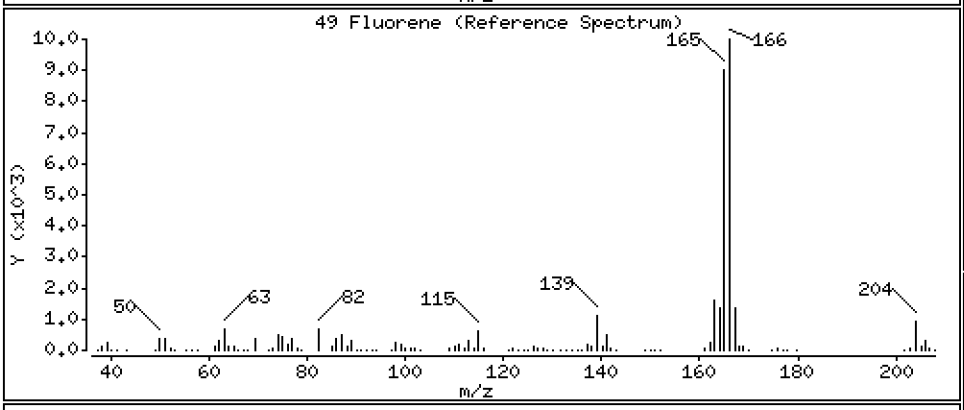
Concentration: 4.559 ug/mL

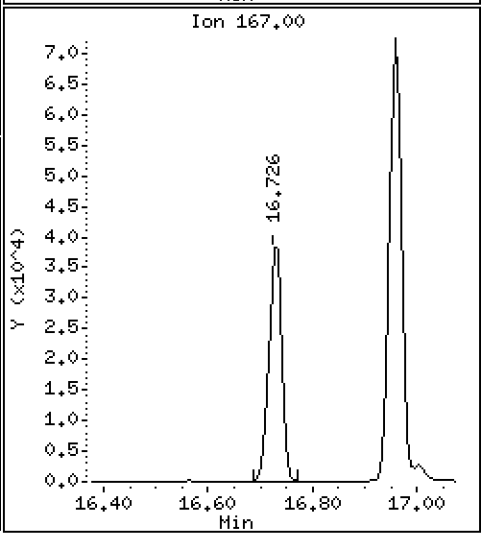


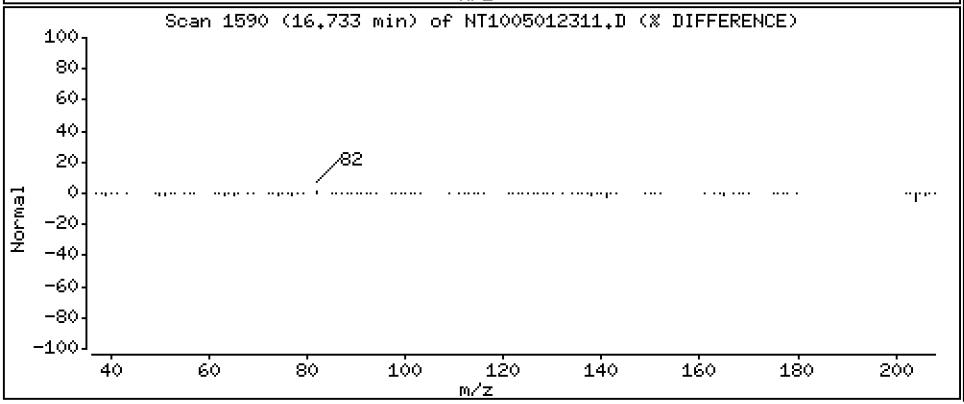












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

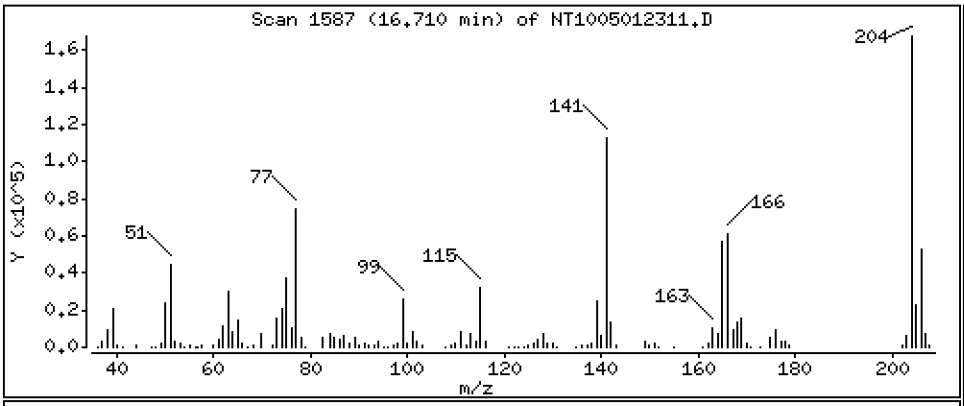
Operator: VTS

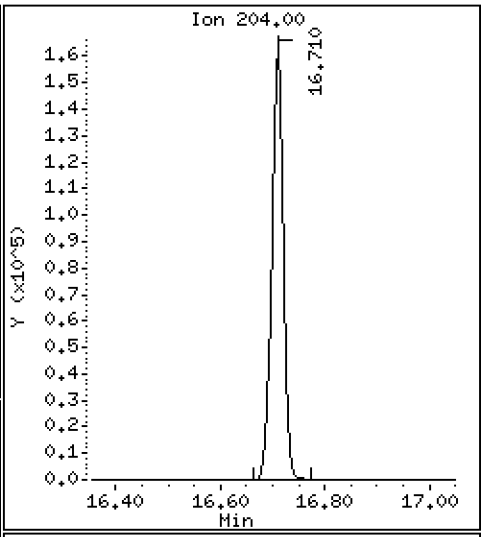
Column phase: ZB-5msi

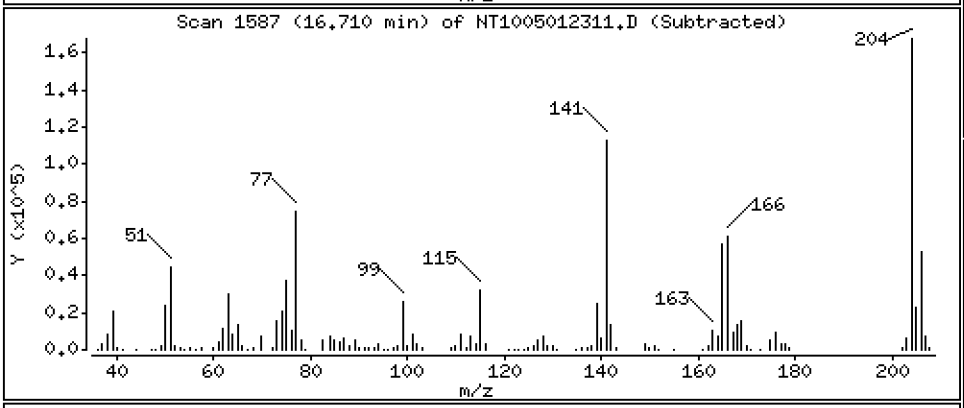
Column diameter: 0.25

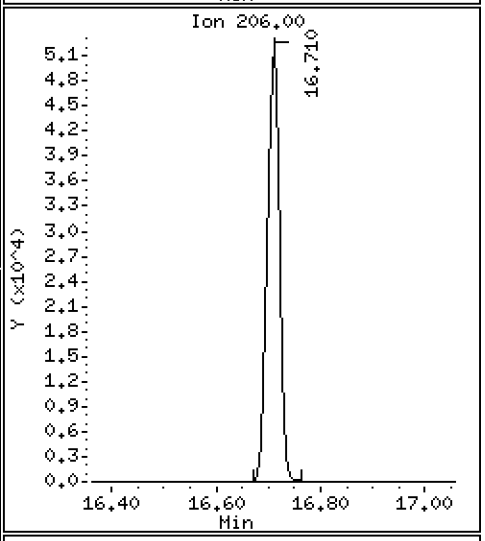
51 4-Chlorophenyl-phenylether

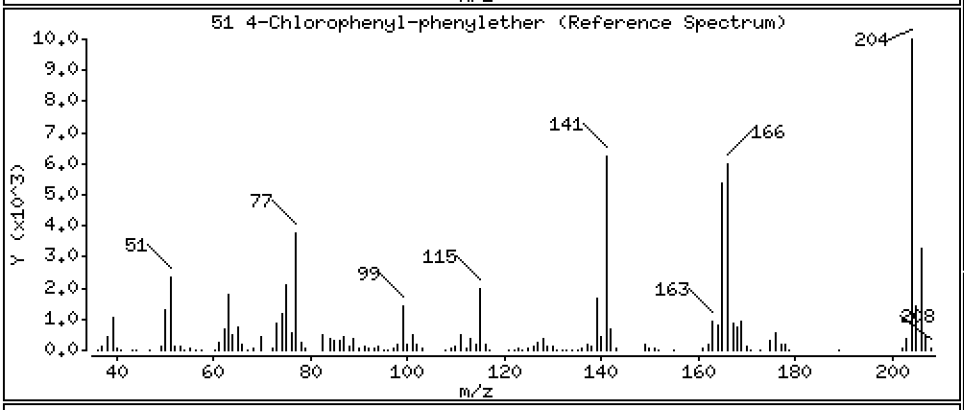
Concentration: 4.797 ug/mL

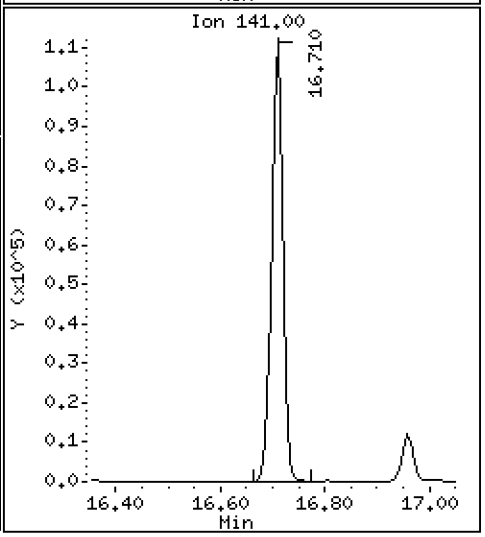


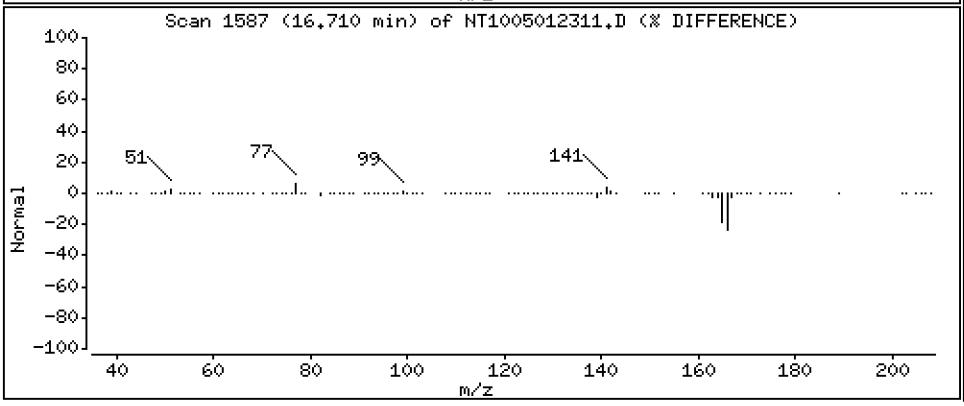












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

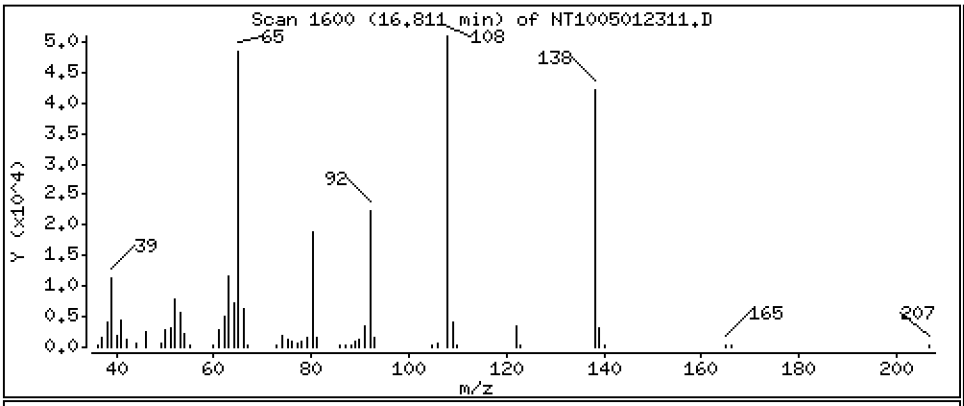
Operator: VTS

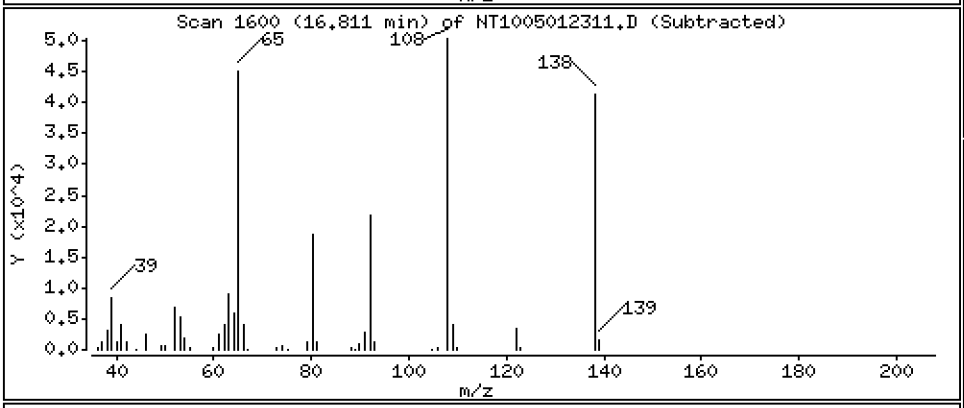
Column phase: ZB-5msi

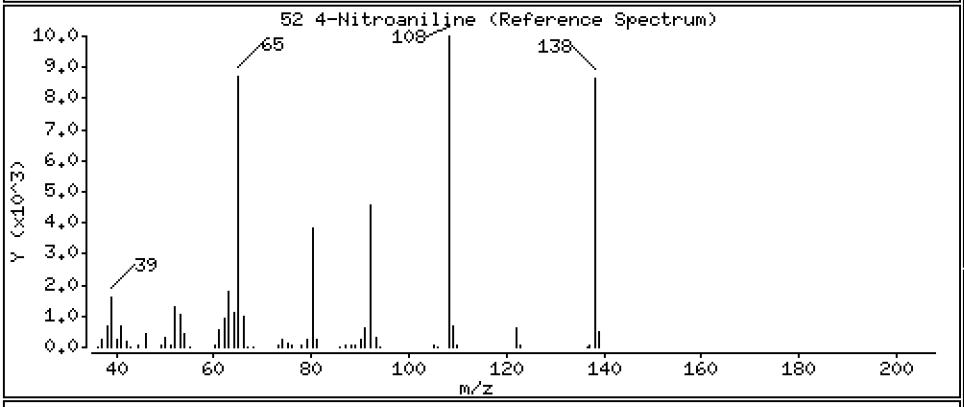
Column diameter: 0.25

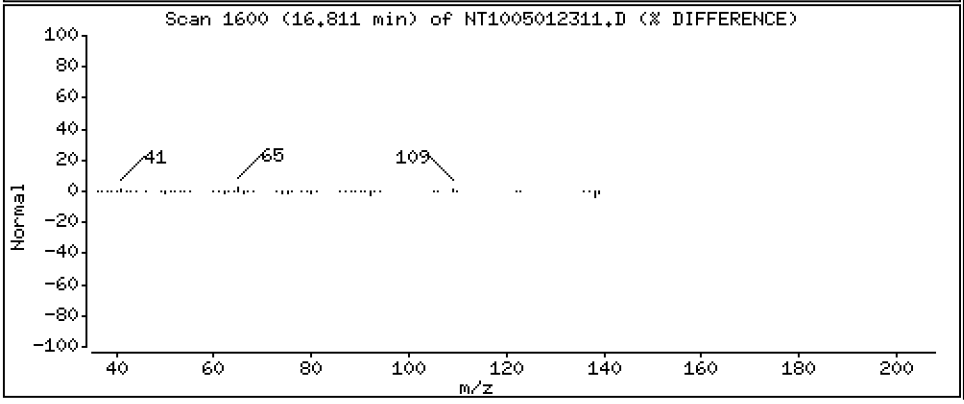
52 4-Nitroaniline

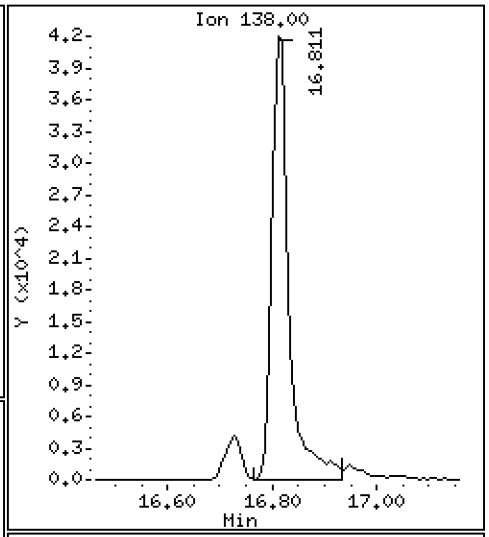
Concentration: 4.293 ug/mL

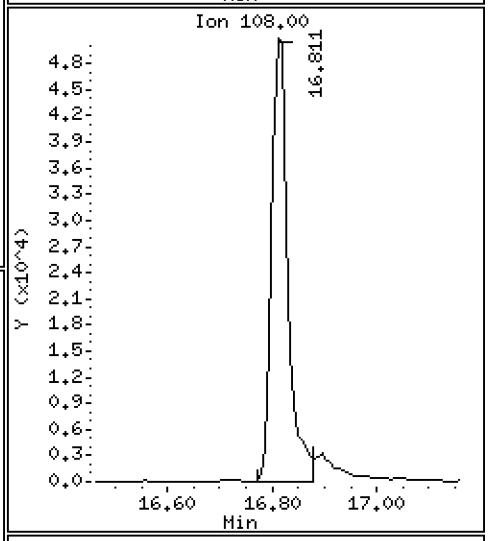


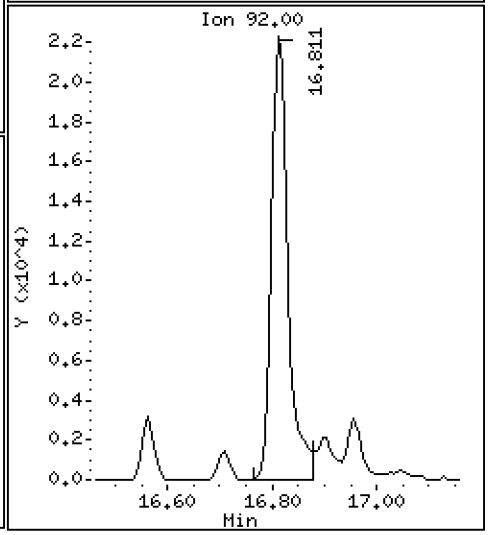












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

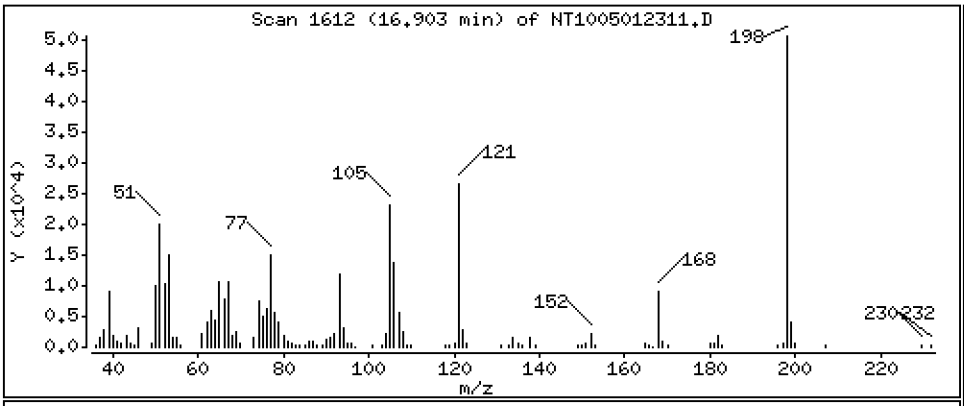
Operator: VTS

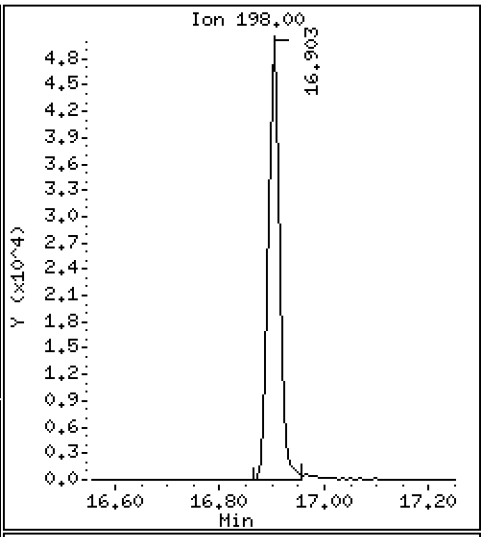
Column phase: ZB-5msi

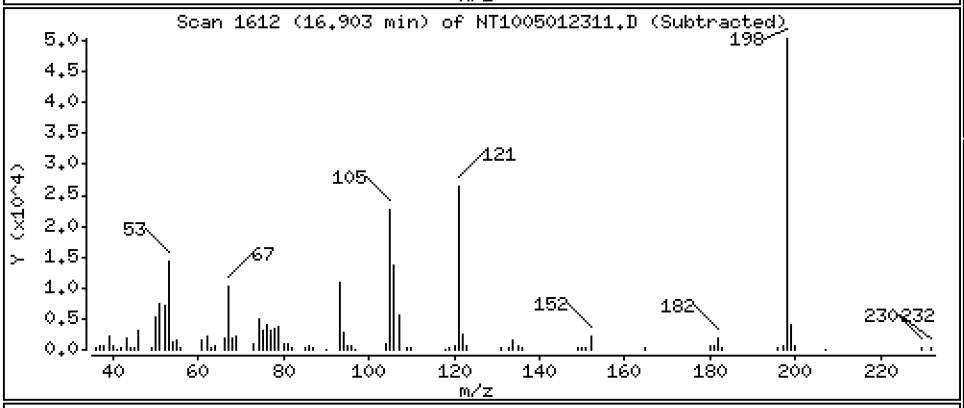
Column diameter: 0.25

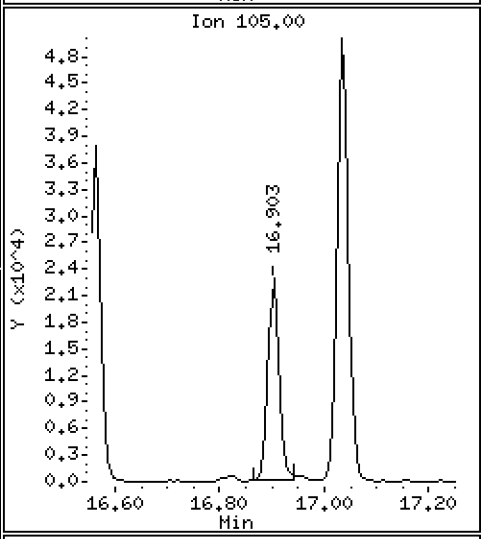
53 4,6-Dinitro-2-methylphenol

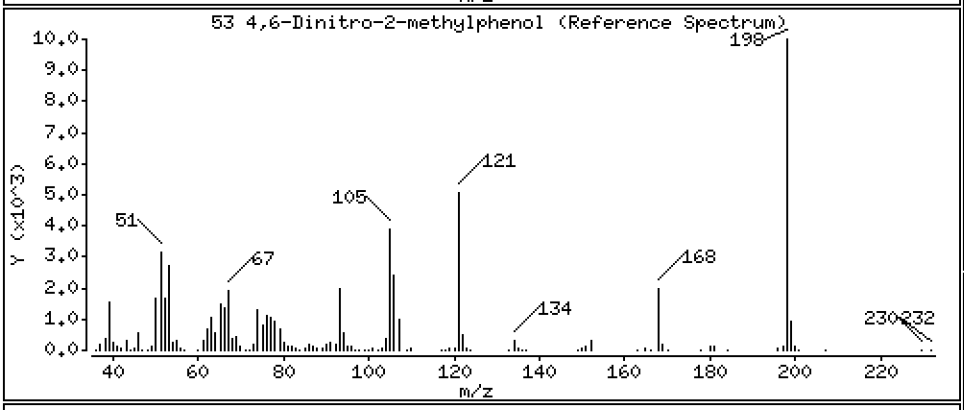
Concentration: 3.760 ug/mL

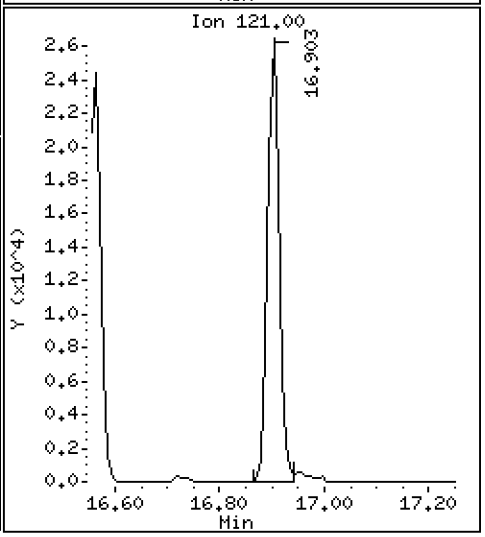


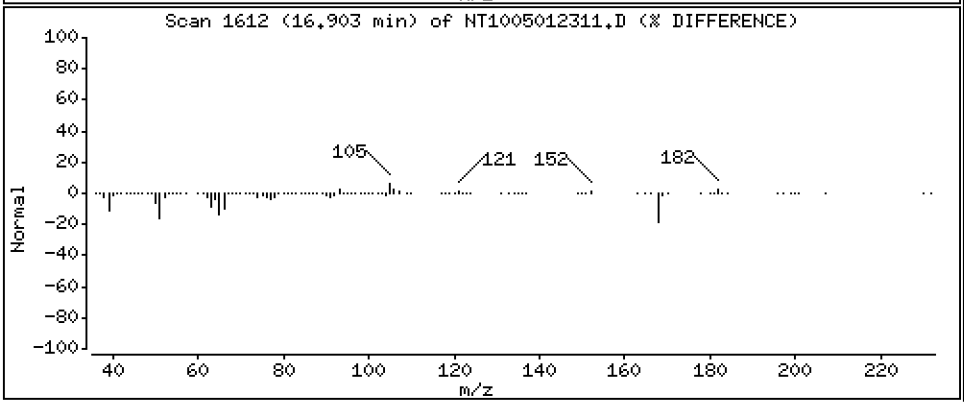












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

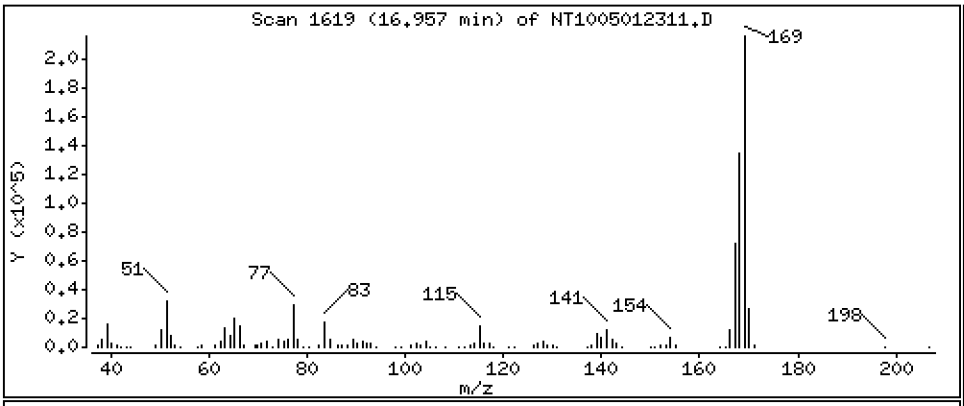
Operator: VTS

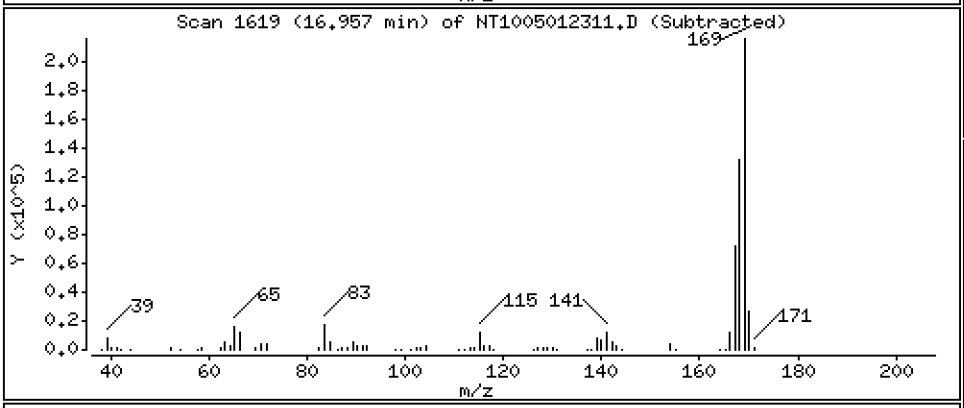
Column phase: ZB-5msi

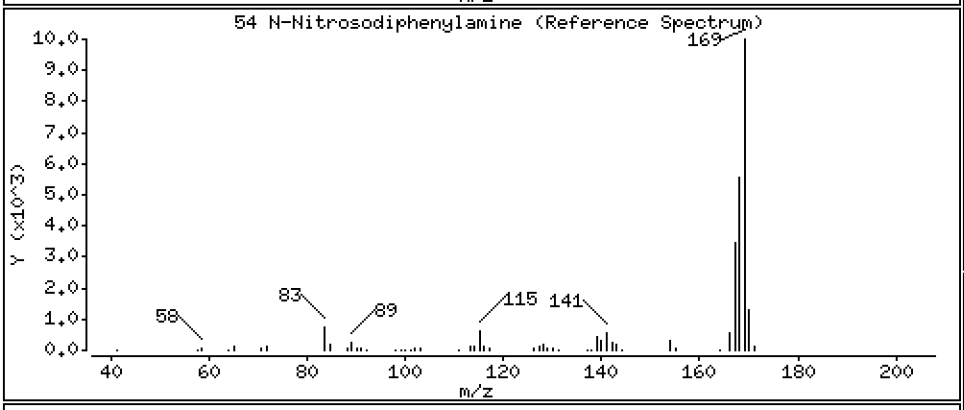
Column diameter: 0.25

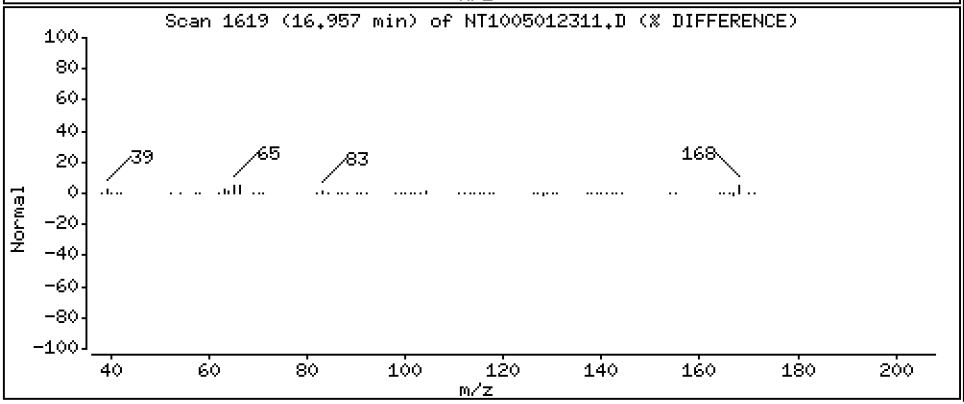
54 N-Nitrosodiphenylamine

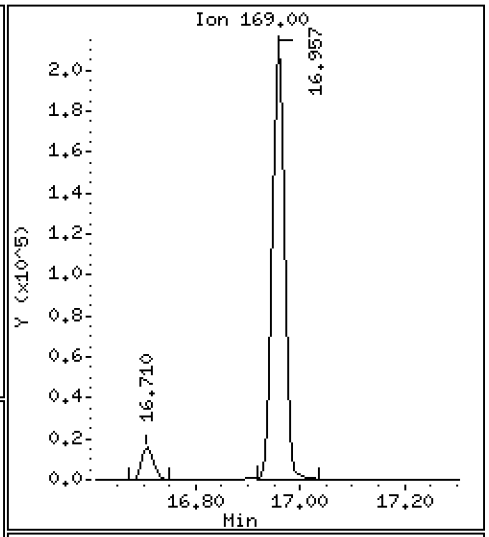
Concentration: 5.125 ug/mL

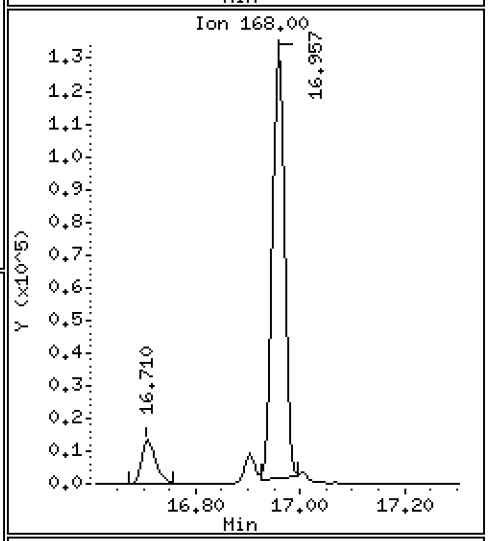


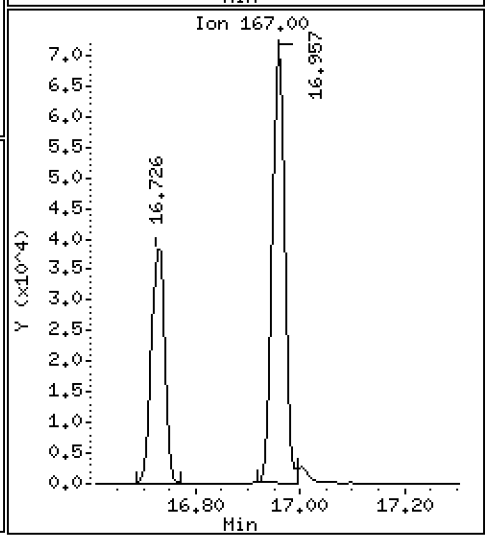












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

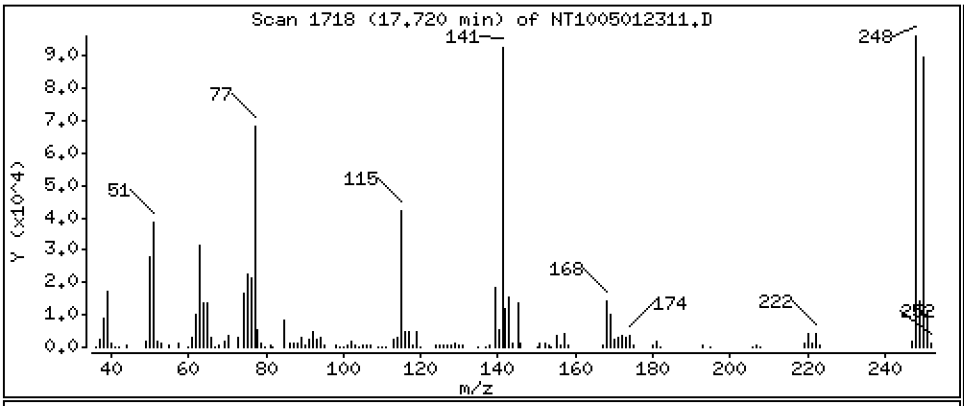
Operator: VTS

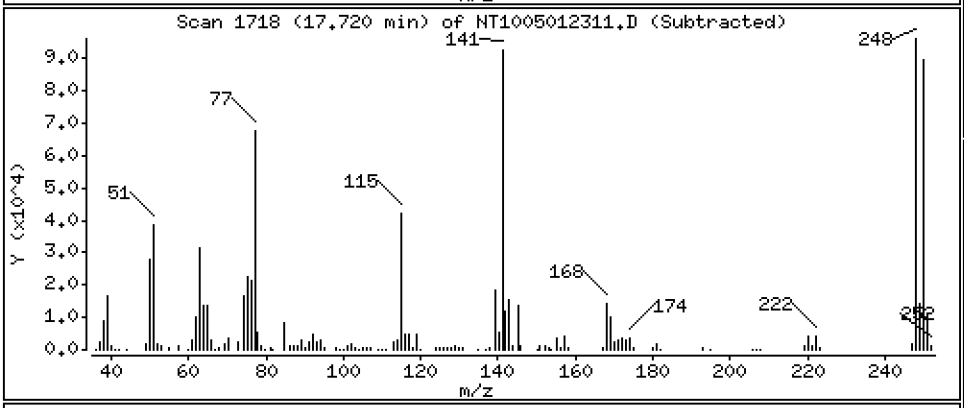
Column phase: ZB-5msi

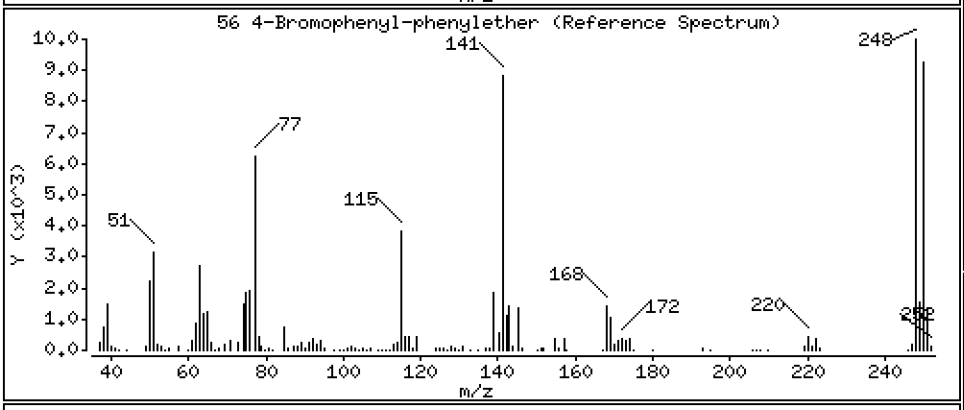
Column diameter: 0.25

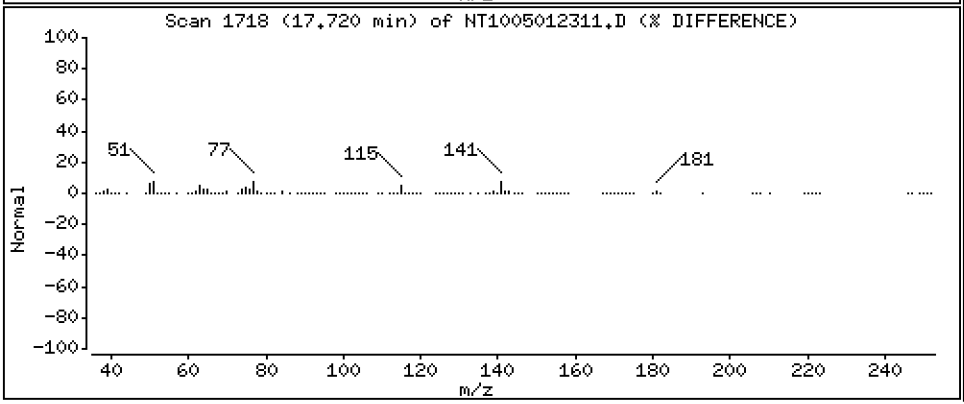
56 4-Bromophenyl-phenylether

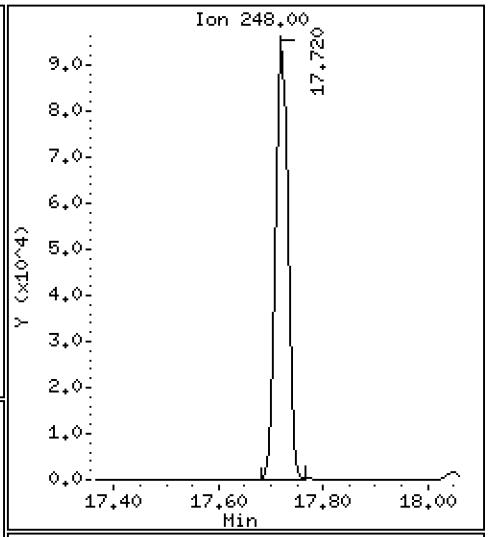
Concentration: 4.942 ug/mL

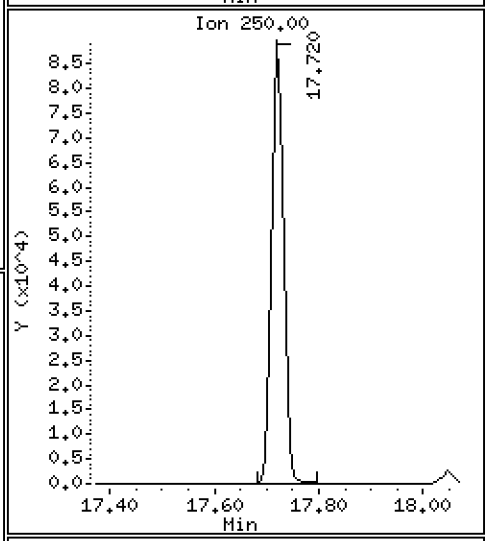


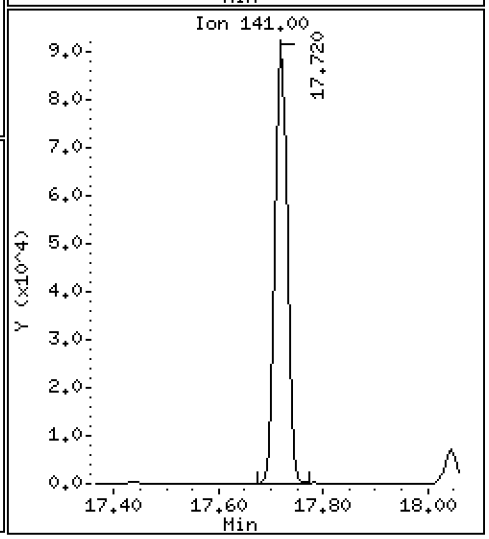












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

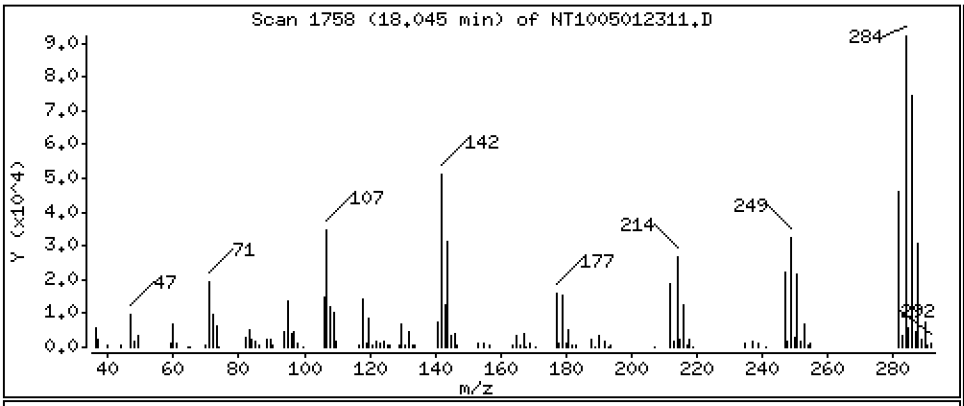
Operator: VTS

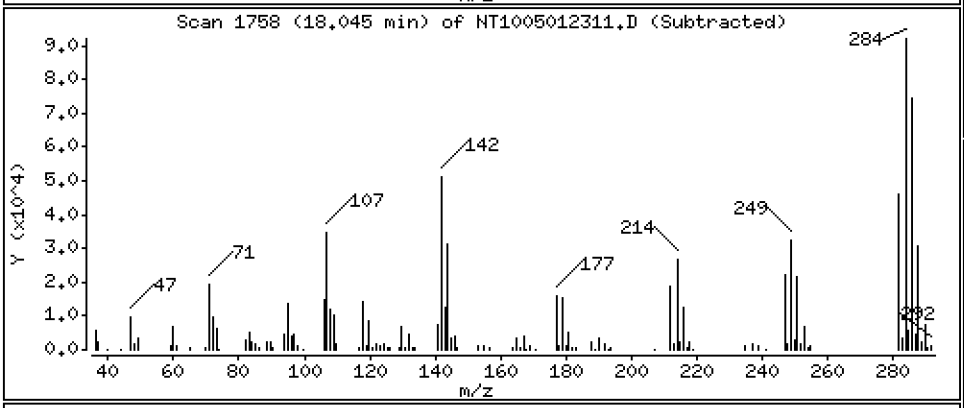
Column phase: ZB-5msi

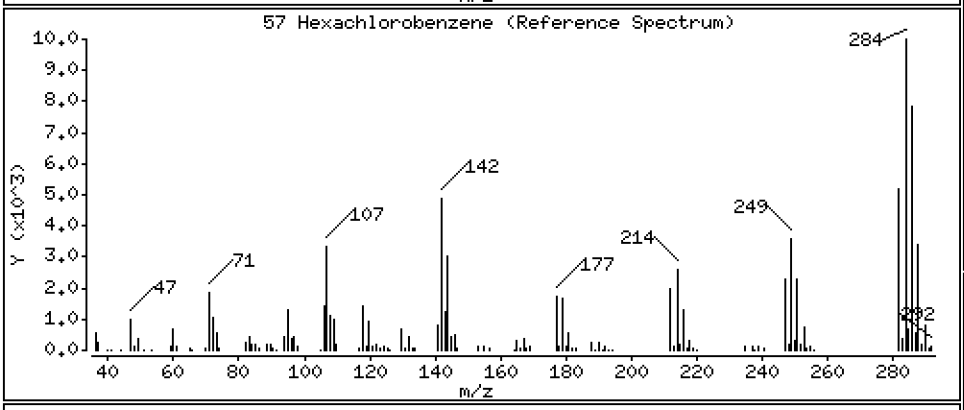
Column diameter: 0.25

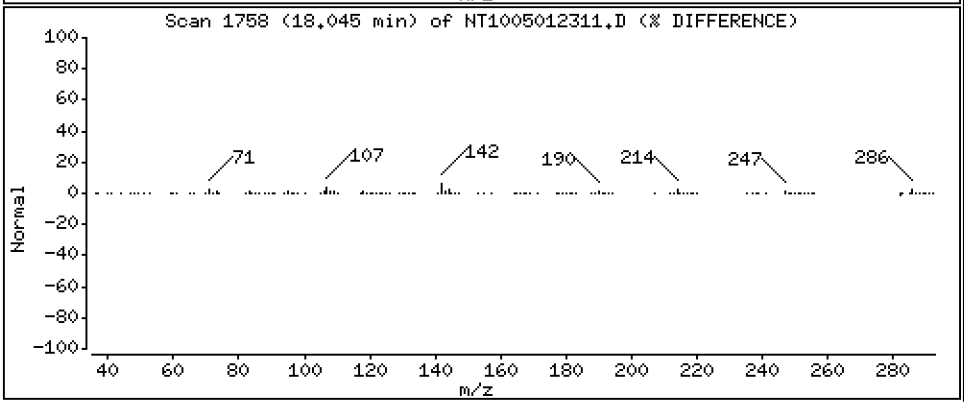
57 Hexachlorobenzene

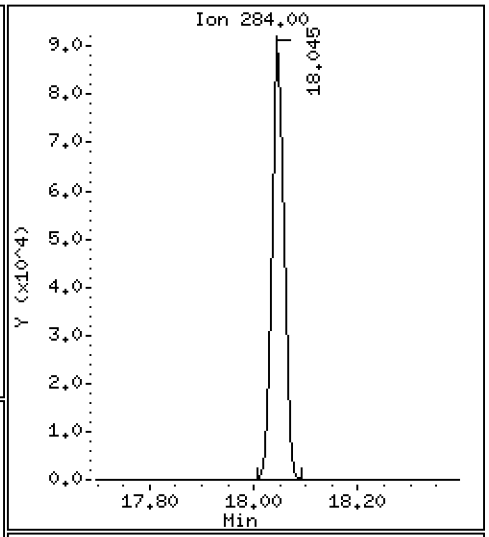
Concentration: 4.689 ug/mL

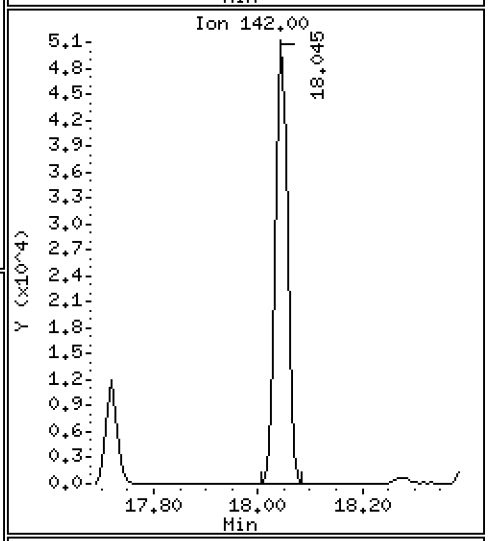


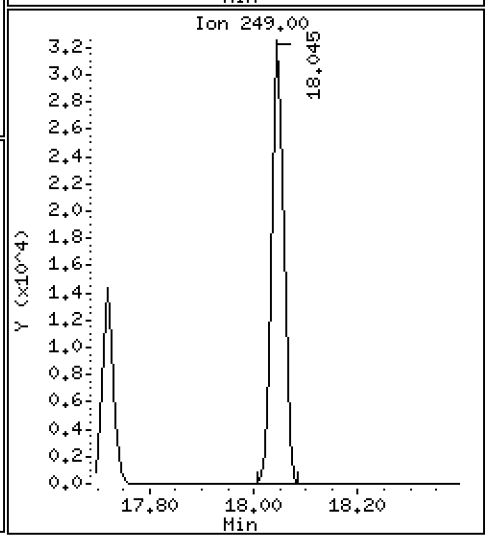












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

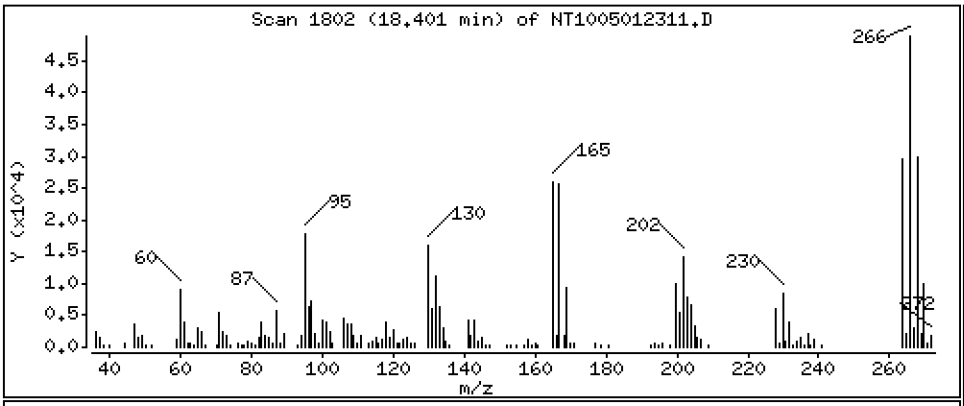
Operator: VTS

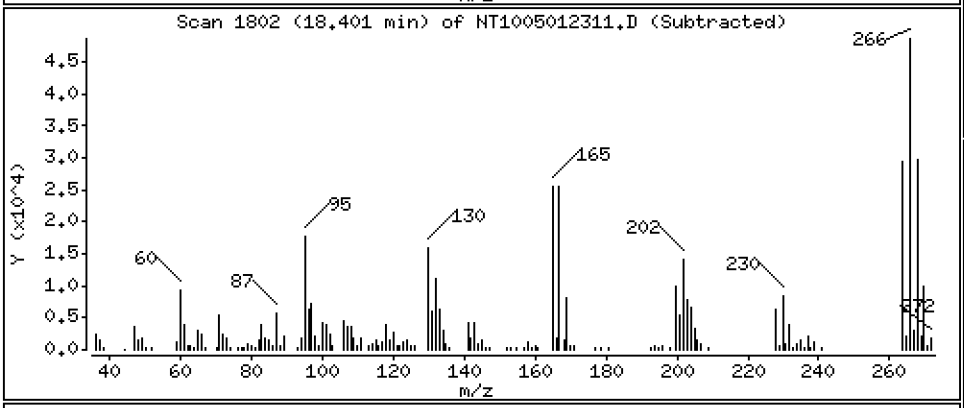
Column phase: ZB-5msi

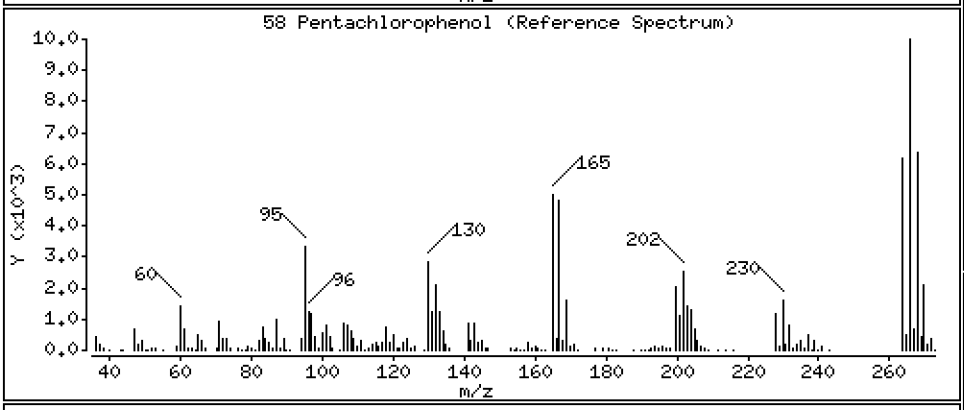
Column diameter: 0.25

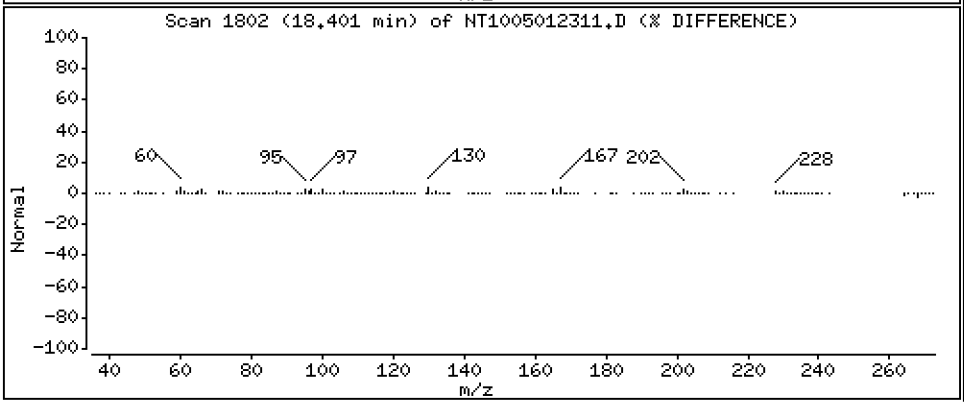
58 Pentachlorophenol

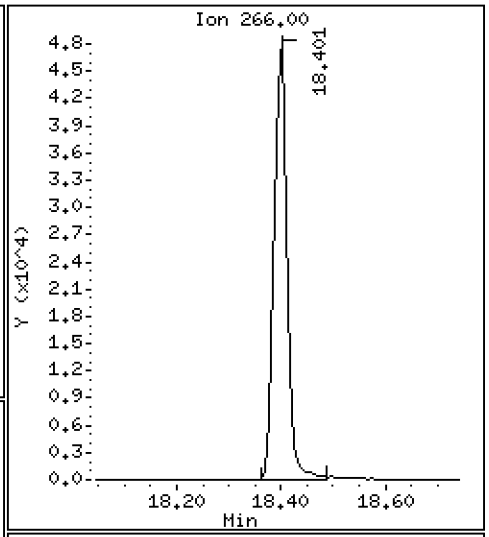
Concentration: 3.866 ug/mL

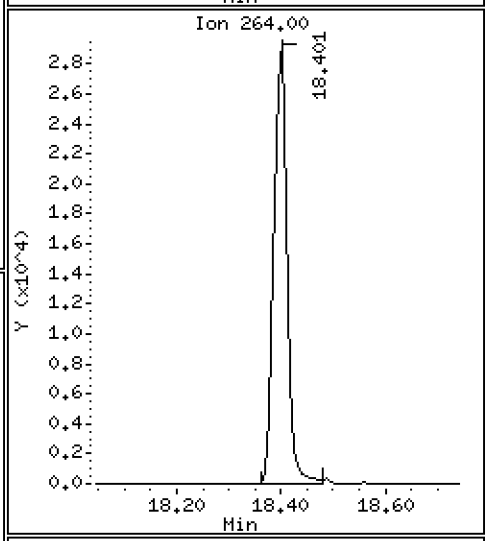


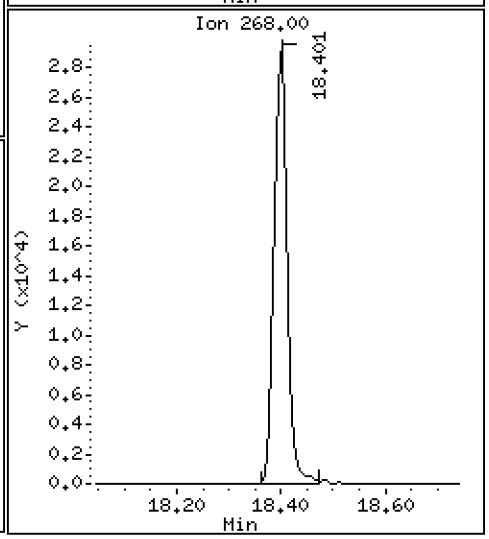












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

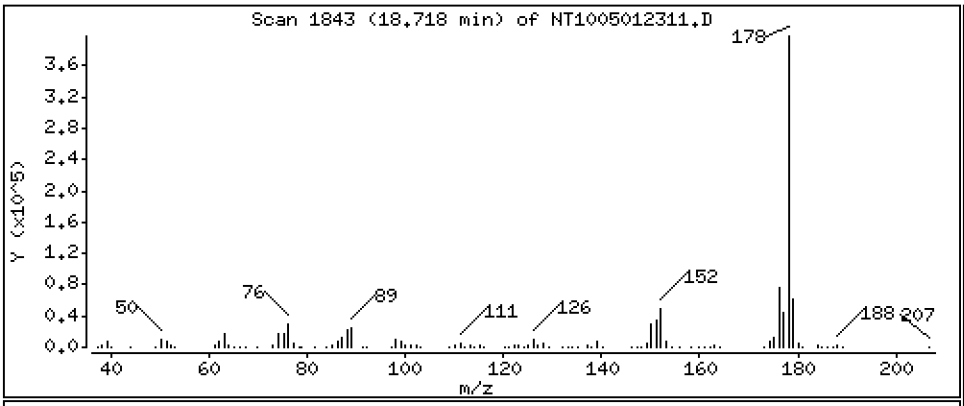
Operator: VTS

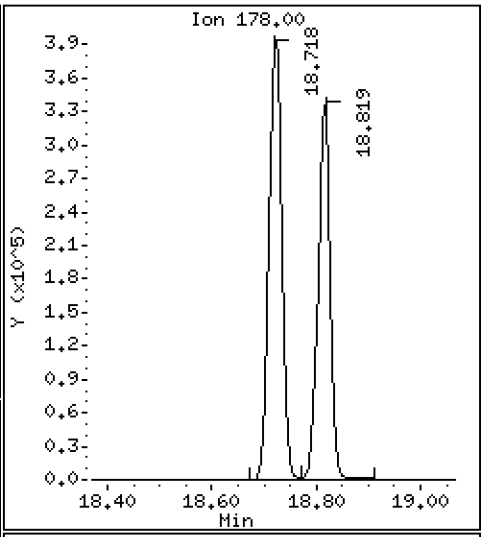
Column phase: ZB-5msi

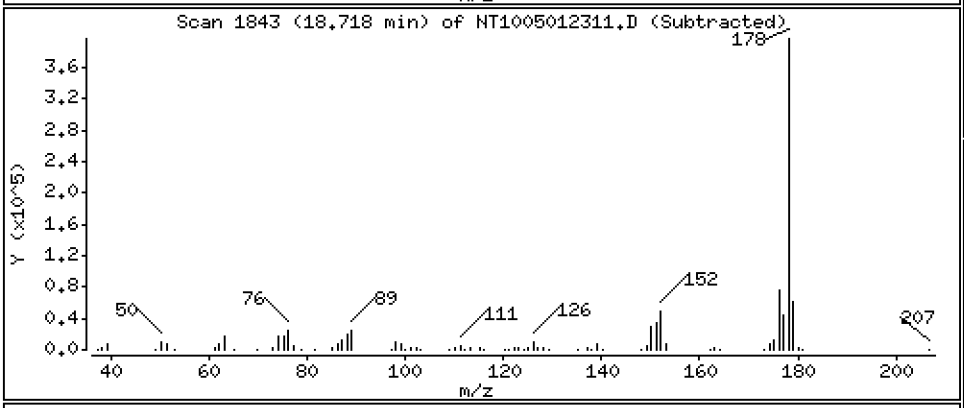
Column diameter: 0.25

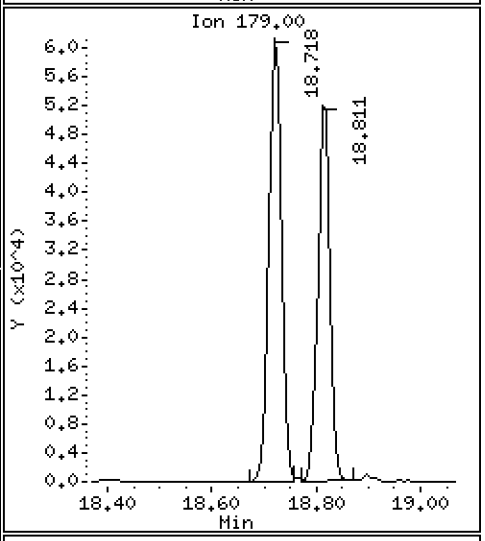
60 Phenanthrene

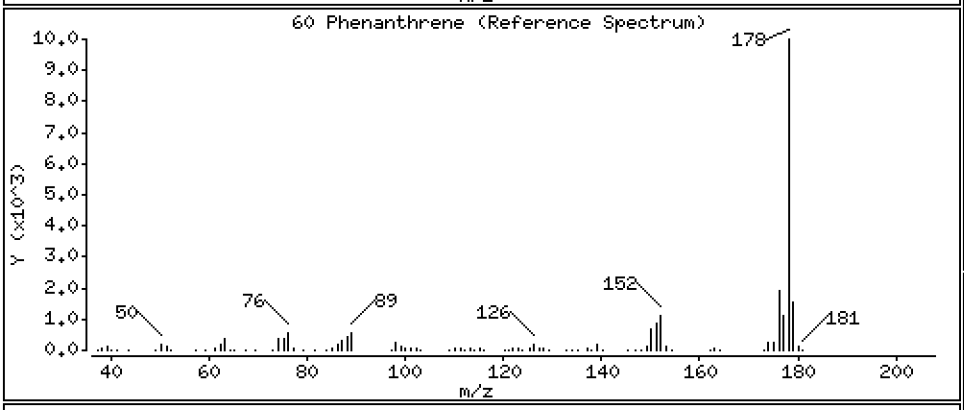
Concentration: 4.586 ug/mL

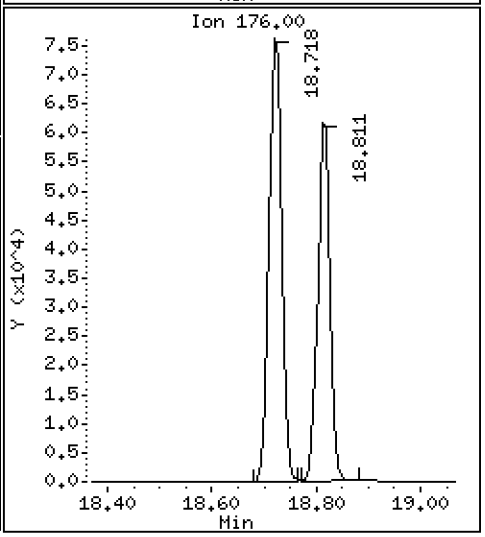


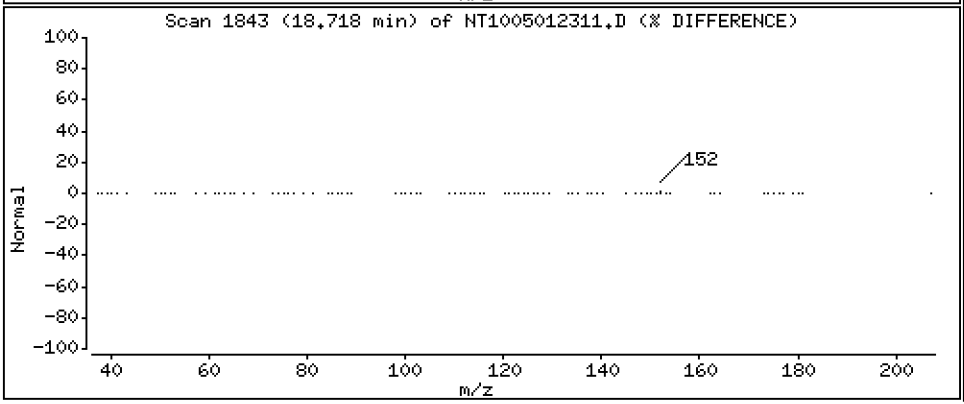












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

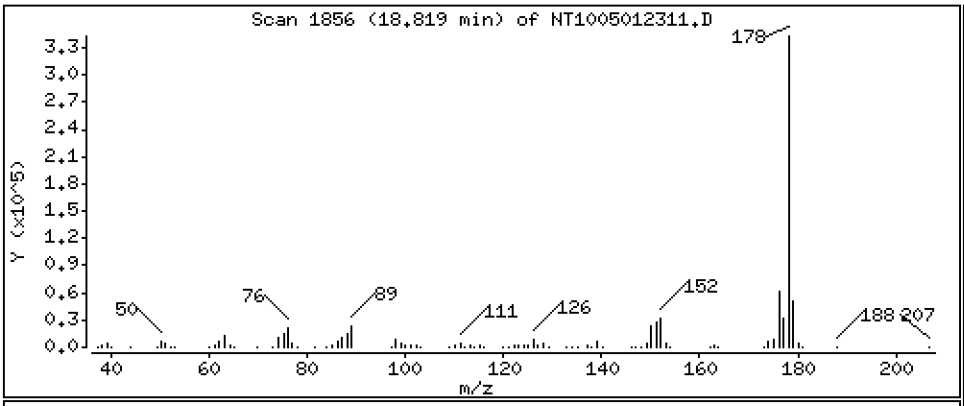
Operator: VTS

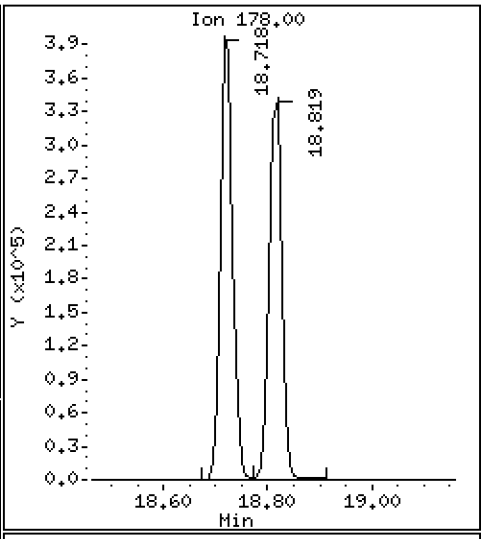
Column phase: ZB-5msi

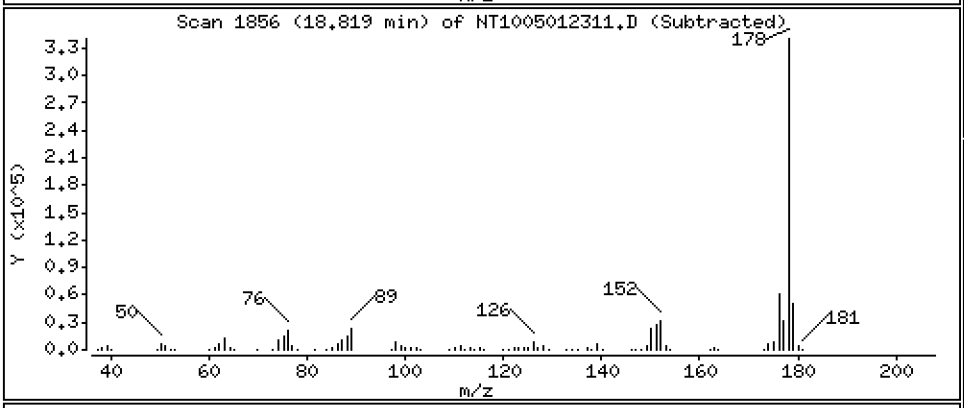
Column diameter: 0.25

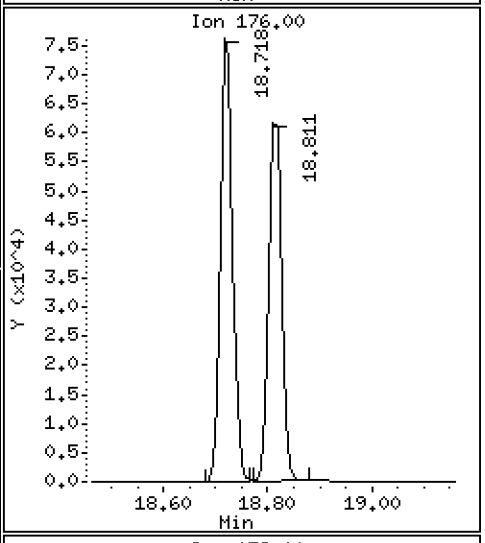
61 Anthracene

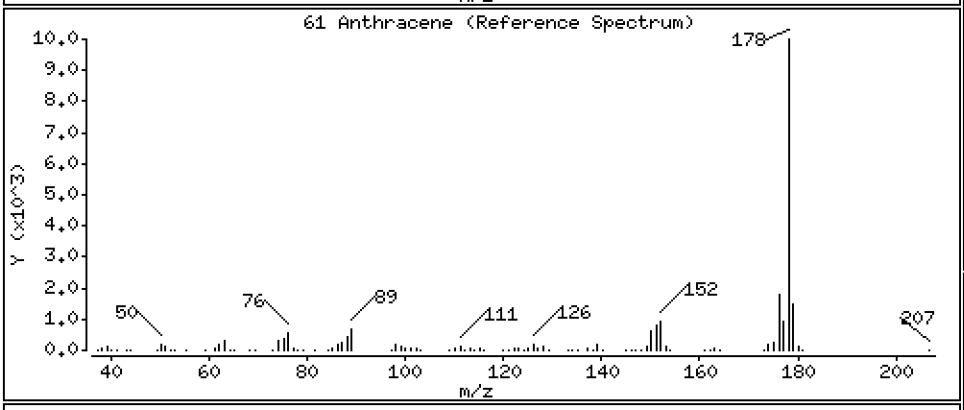
Concentration: 4.169 ug/mL

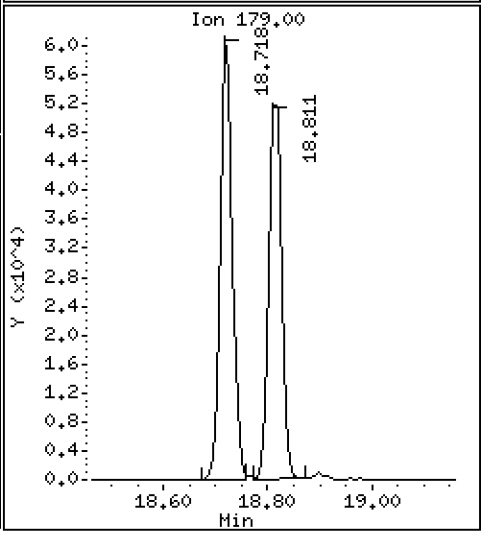


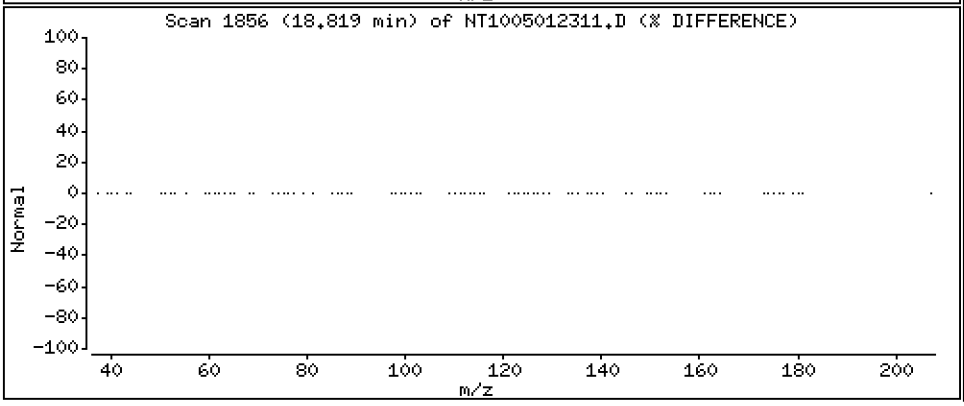












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

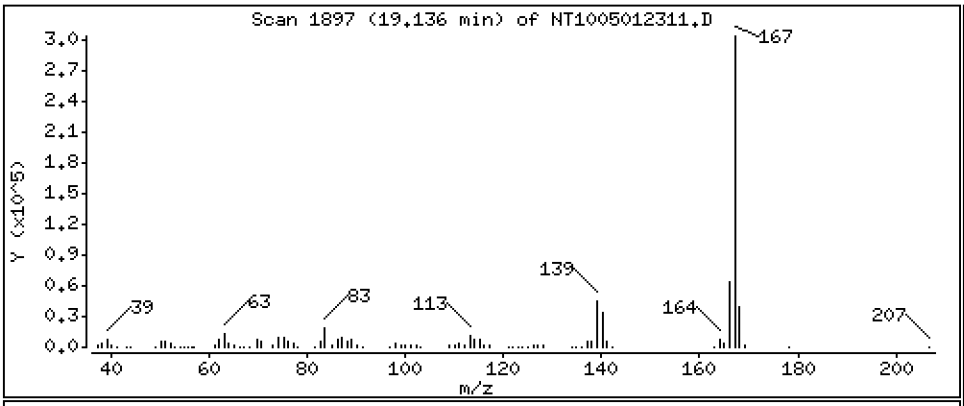
Operator: VTS

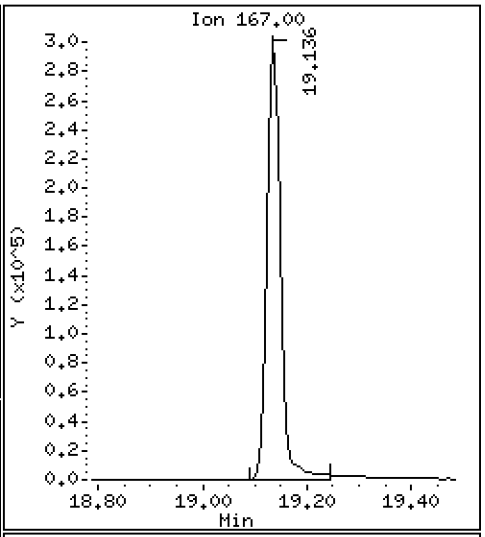
Column phase: ZB-5msi

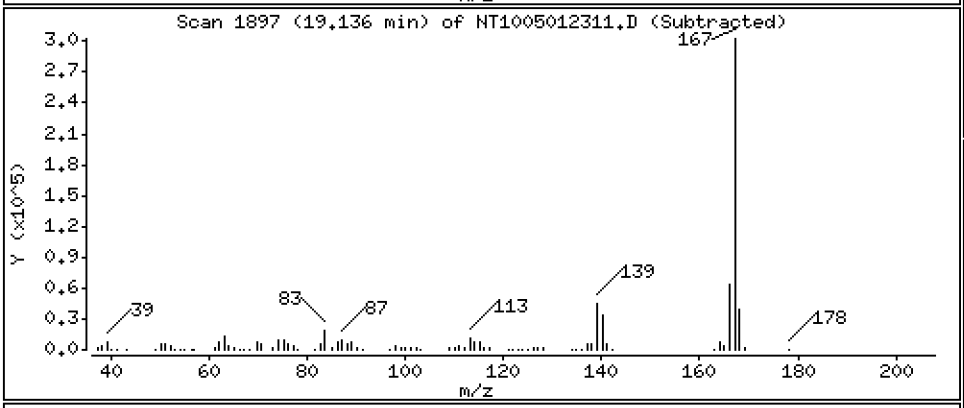
Column diameter: 0.25

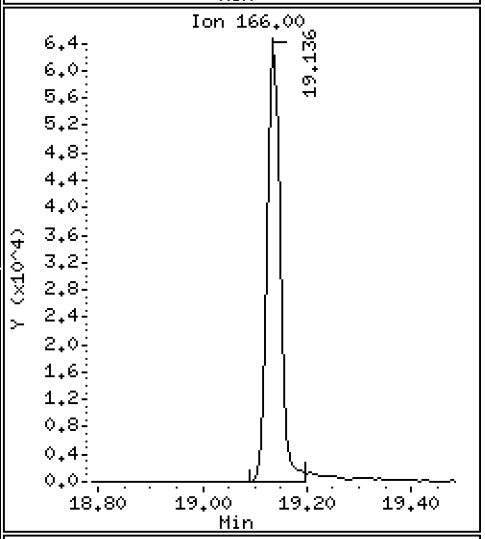
62 Carbazole

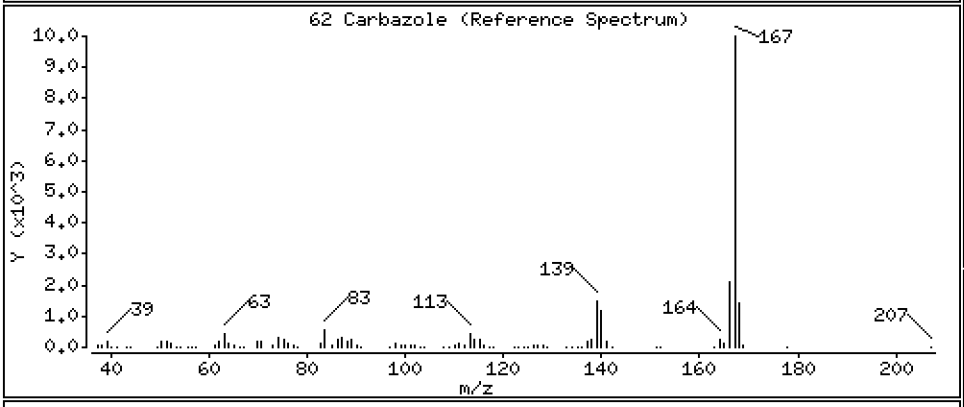
Concentration: 4.503 ug/mL

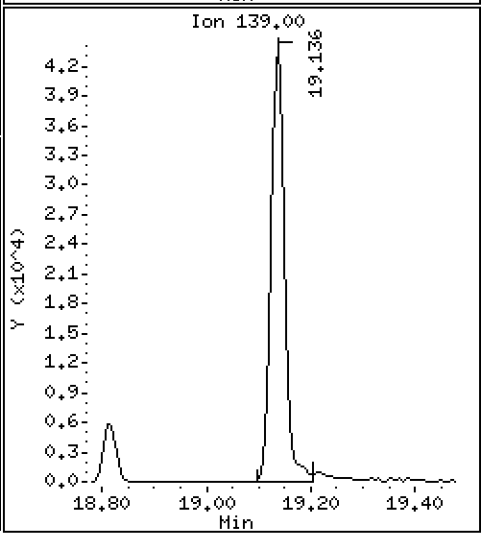


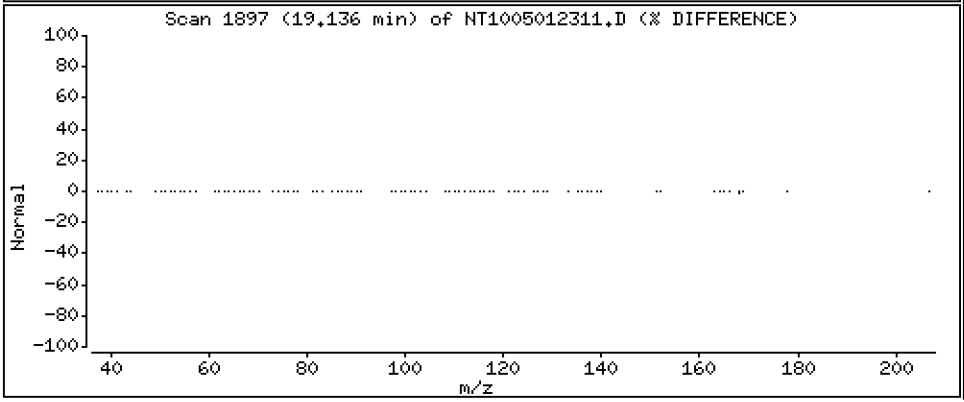












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

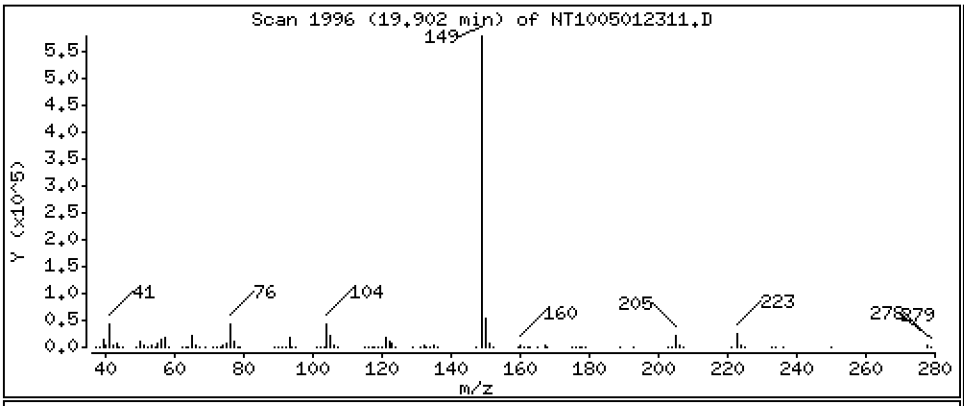
Operator: VTS

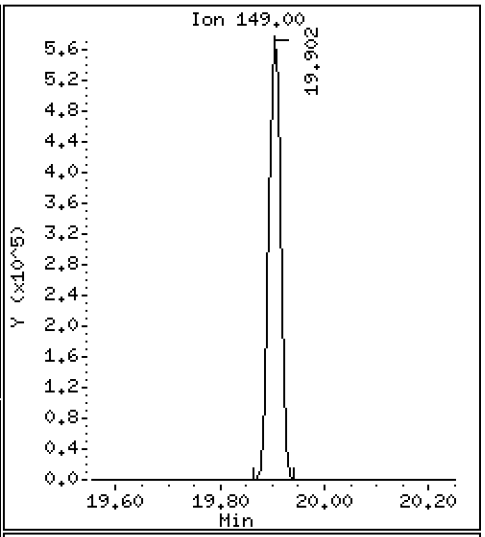
Column phase: ZB-5msi

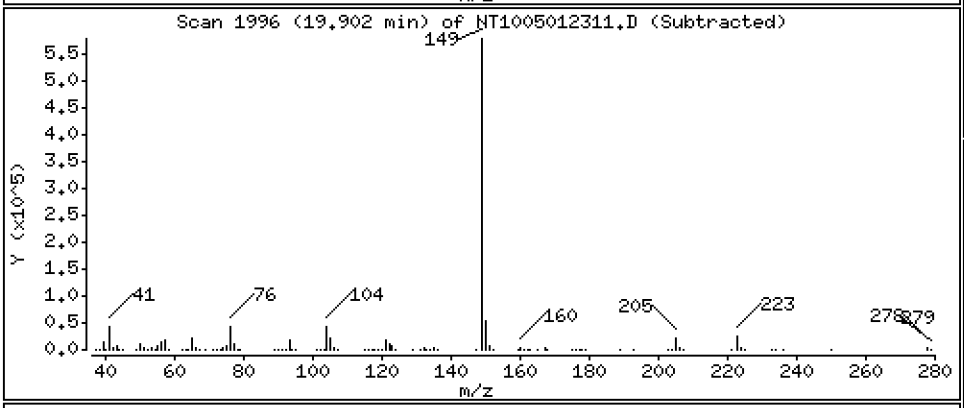
Column diameter: 0.25

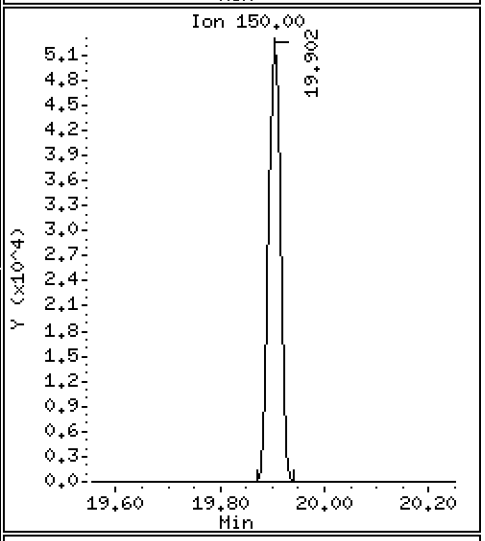
63 Di-n-butylphthalate

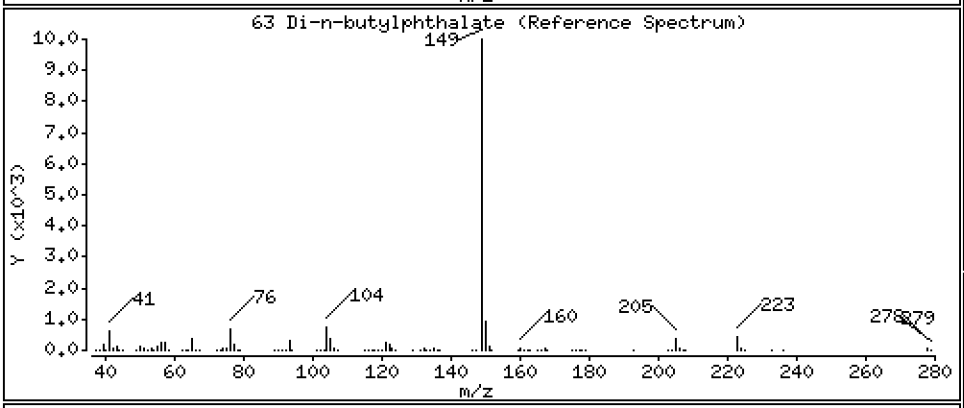
Concentration: 4.895 ug/mL

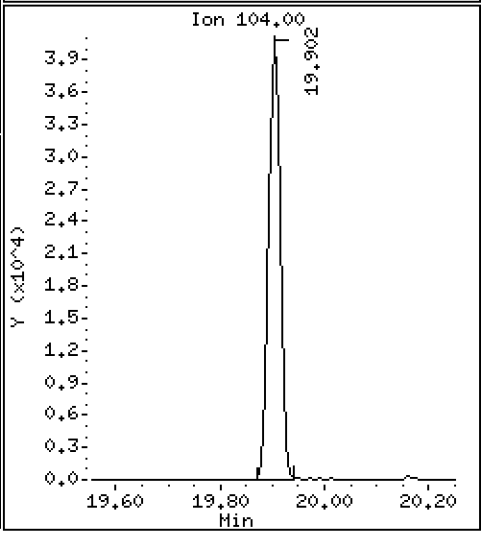


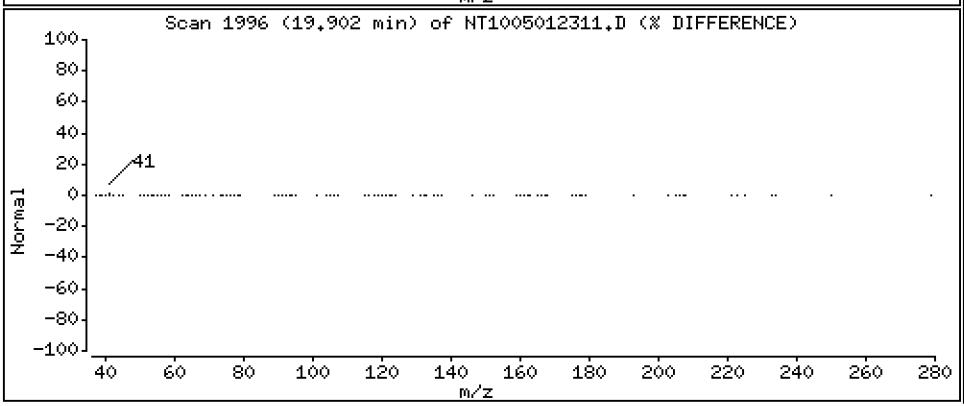












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

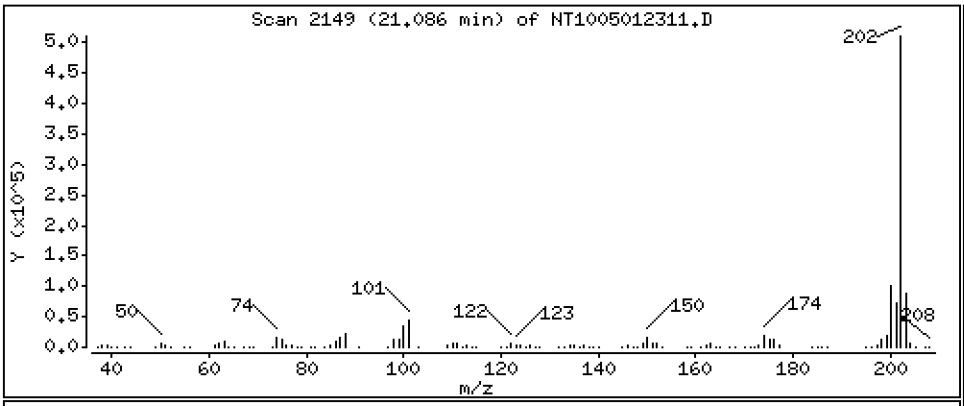
Operator: VTS

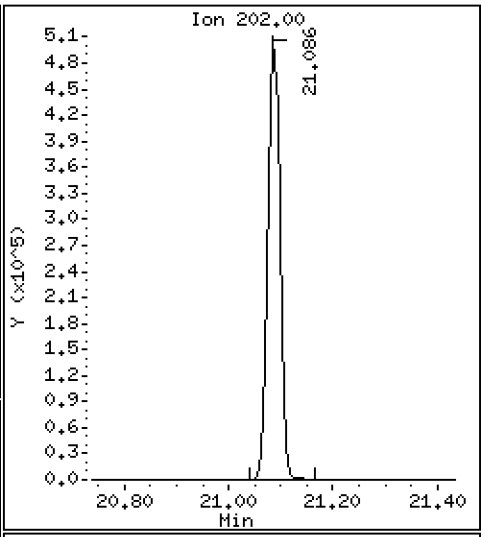
Column phase: ZB-5msi

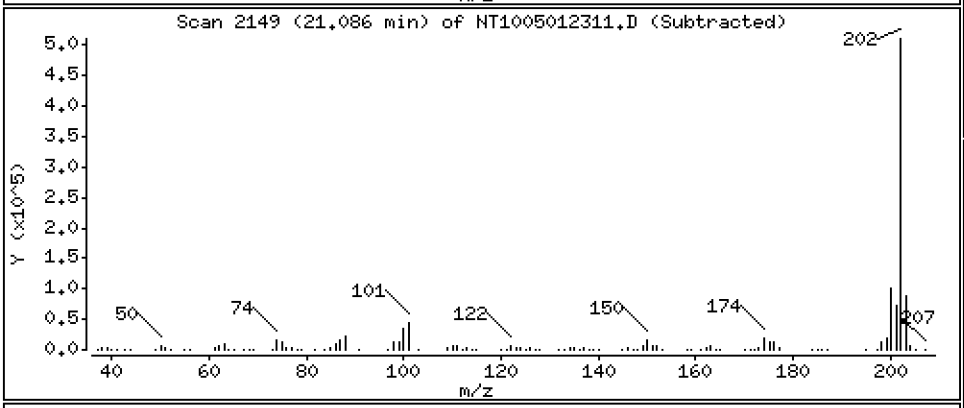
Column diameter: 0.25

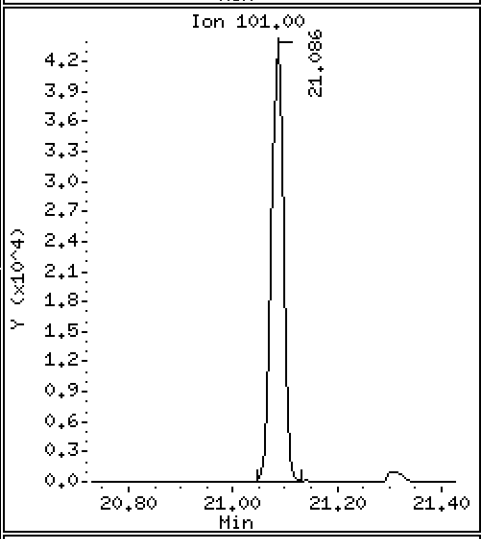
64 Fluoranthene

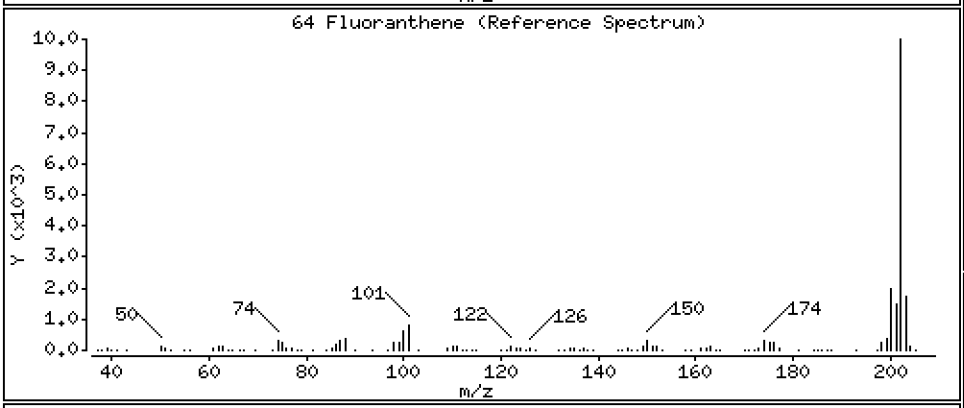
Concentration: 4.738 ug/mL

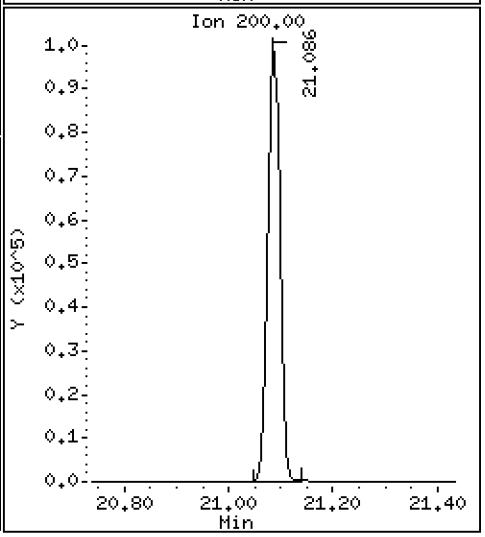


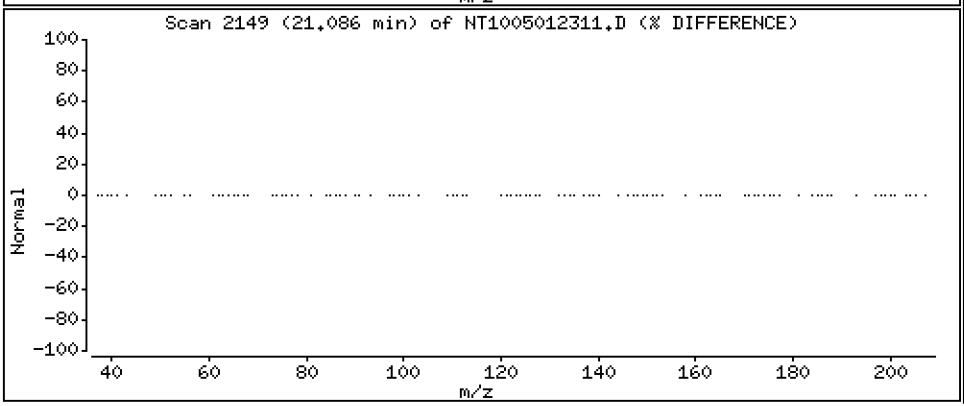












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

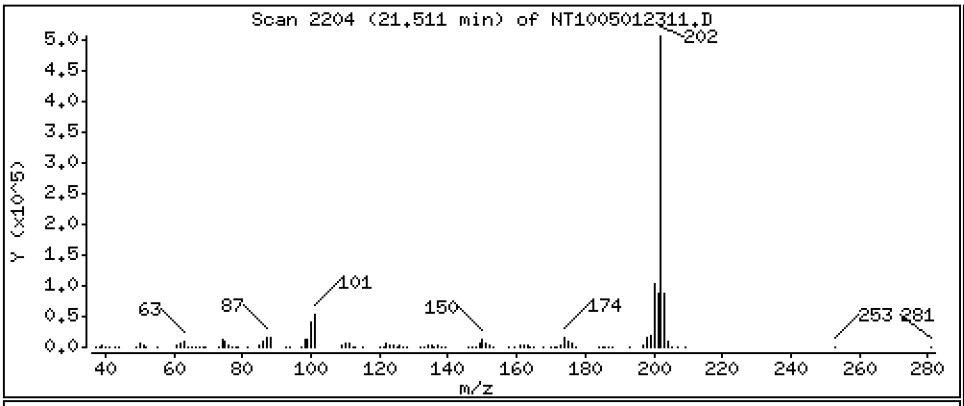
Operator: VTS

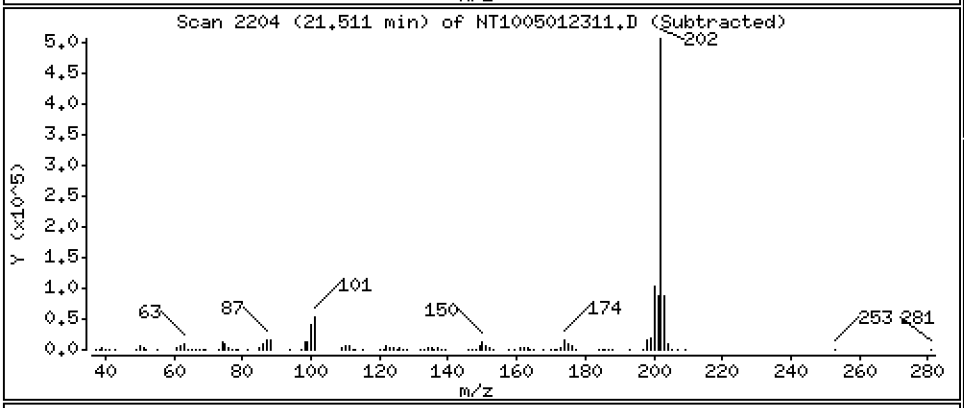
Column phase: ZB-5msi

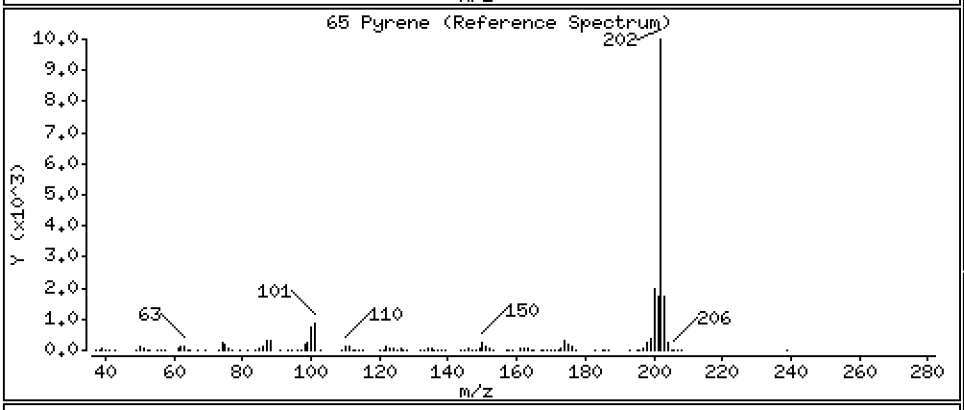
Column diameter: 0.25

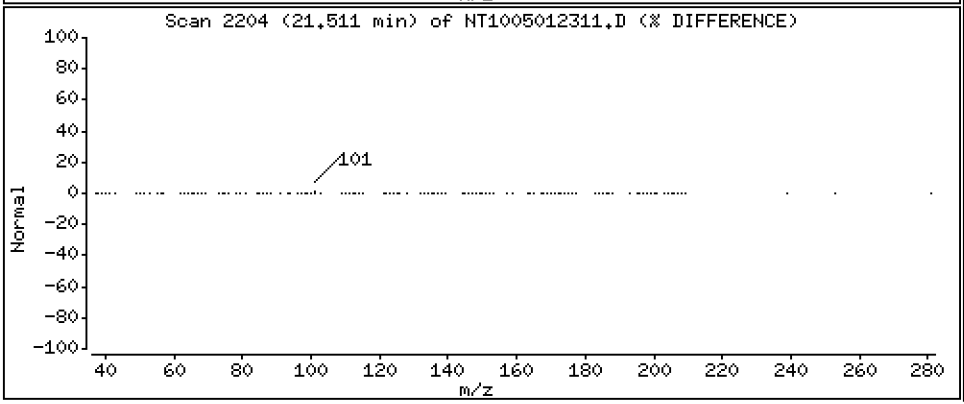
65 Pyrene

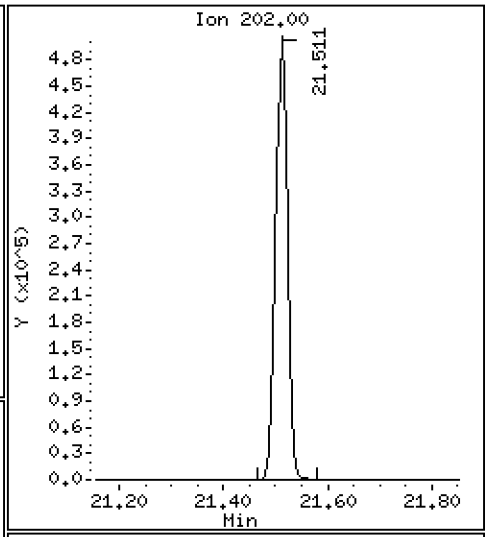
Concentration: 4.635 ug/mL

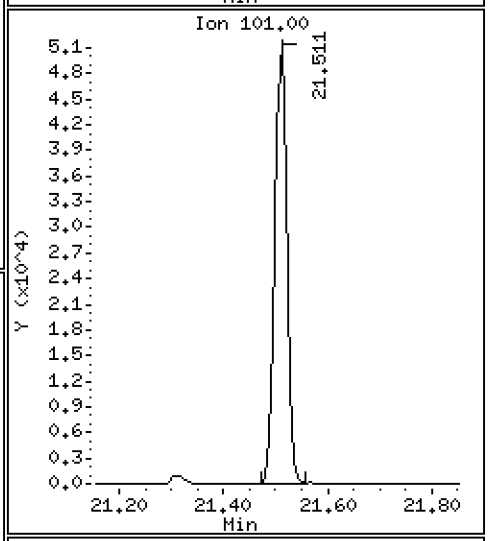


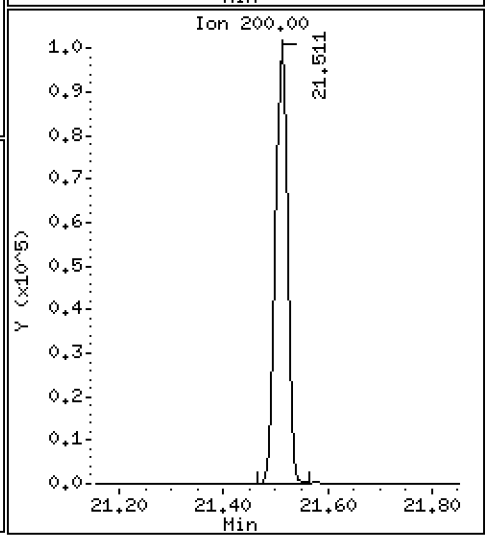












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

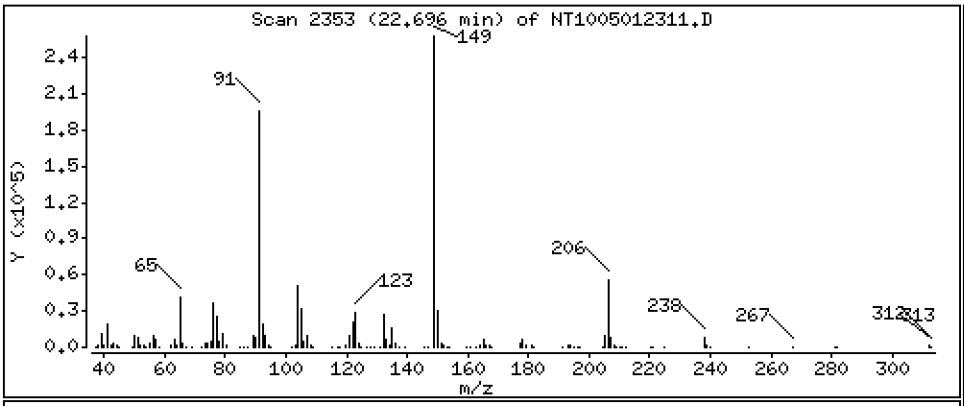
Operator: VTS

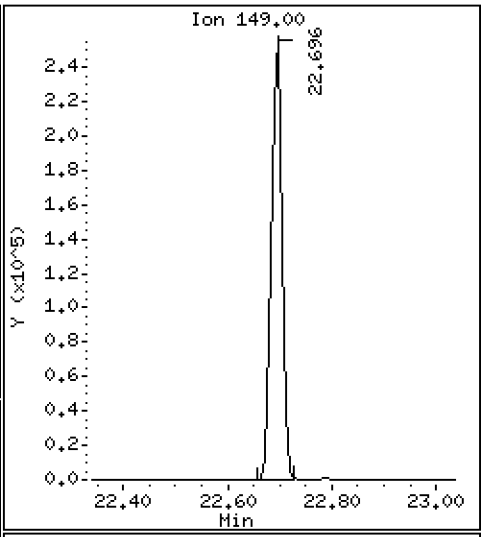
Column phase: ZB-5msi

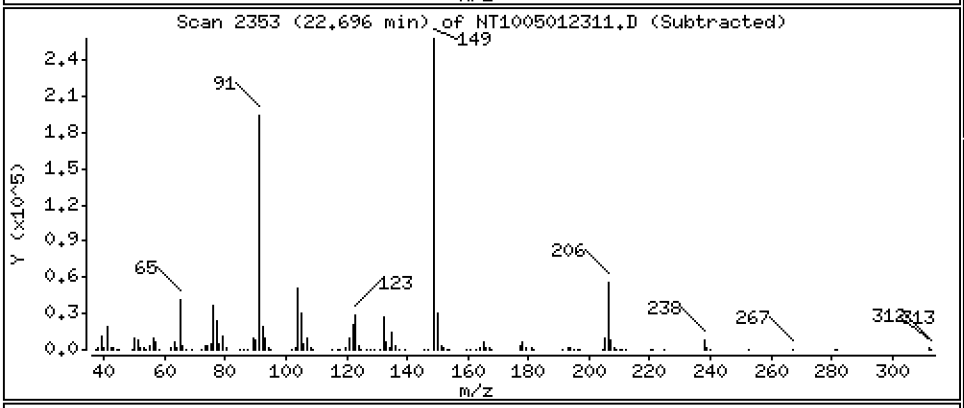
Column diameter: 0.25

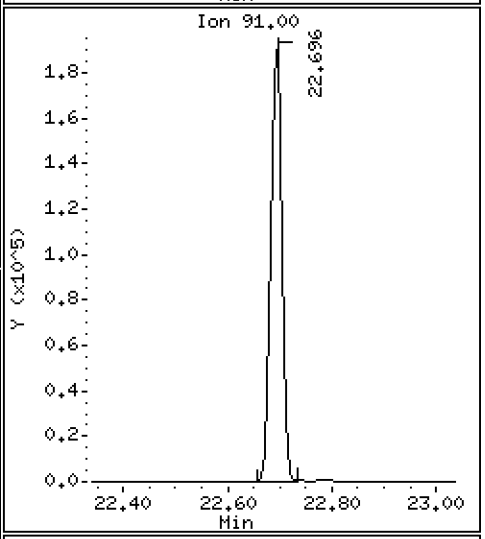
67 Butylbenzylphthalate

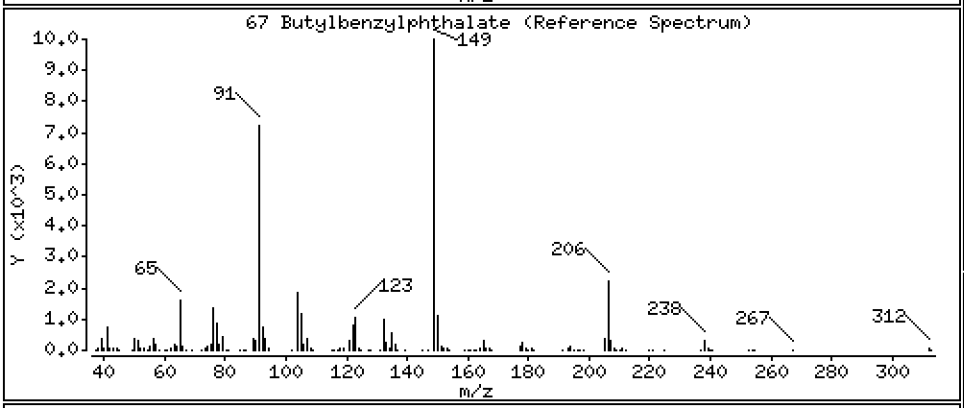
Concentration: 4.778 ug/mL

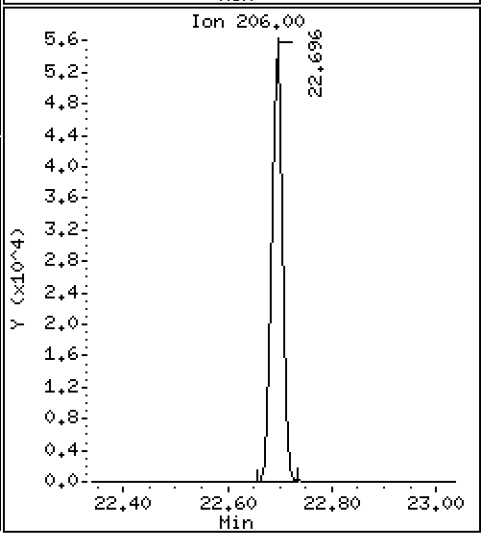


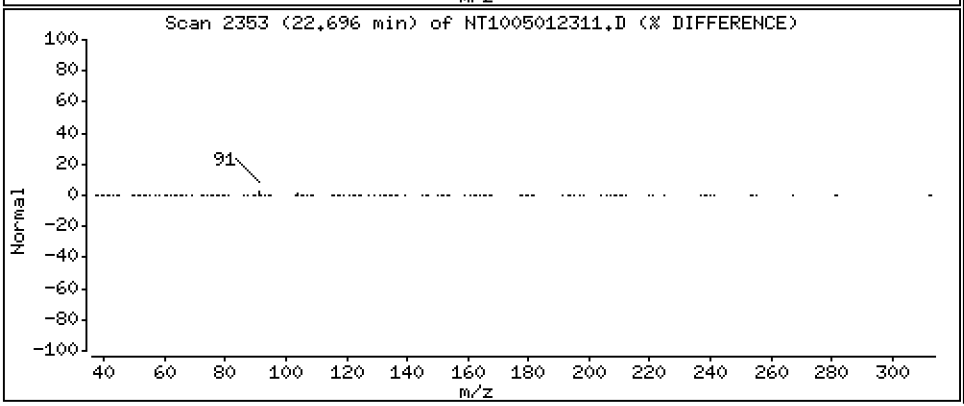












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

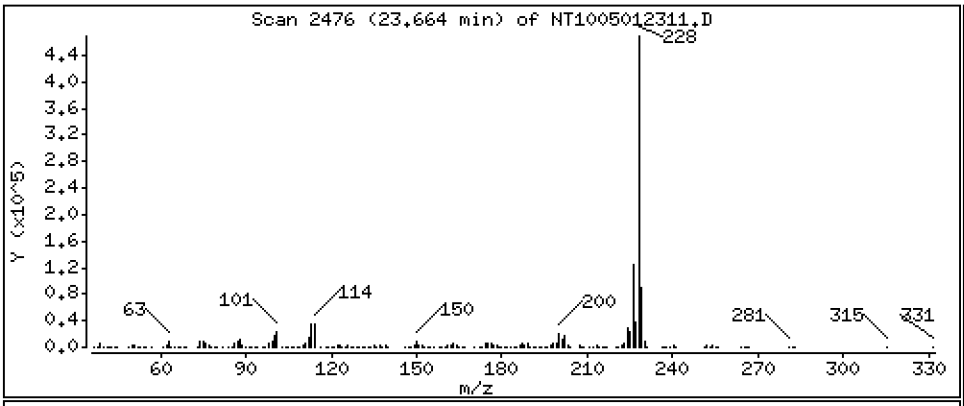
Operator: VTS

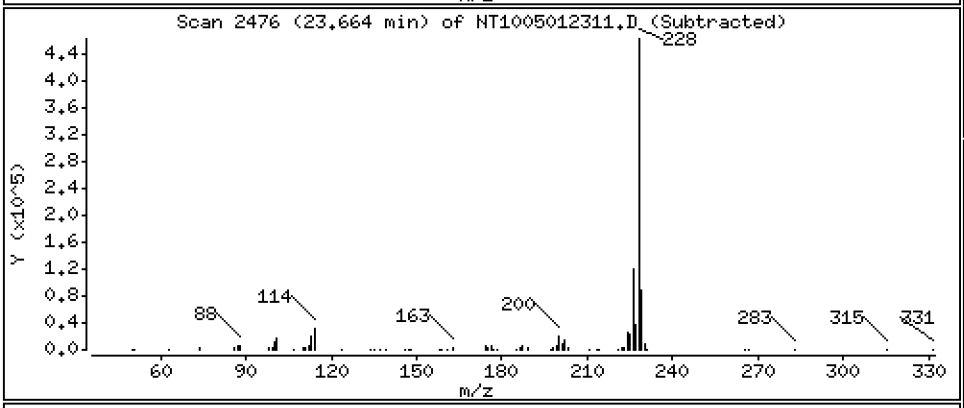
Column phase: ZB-5msi

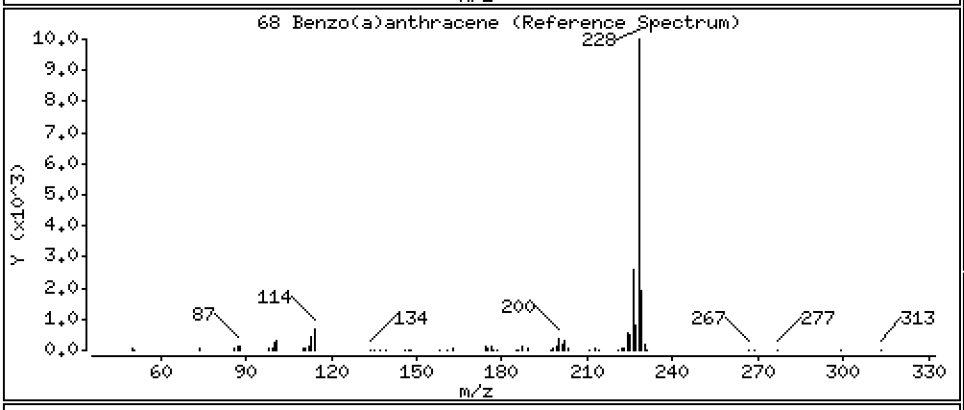
Column diameter: 0.25

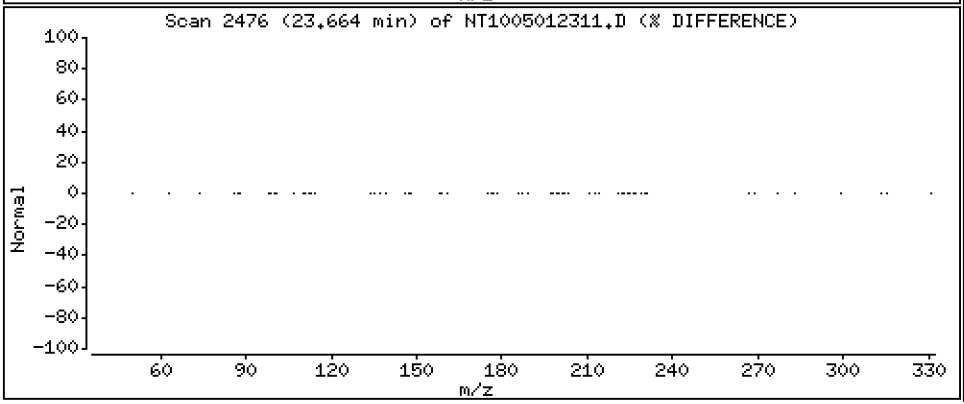
68 Benzo(a)anthracene

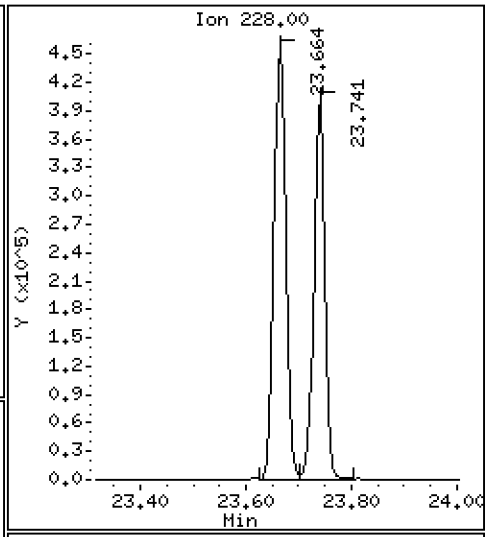
Concentration: 4.717 ug/mL

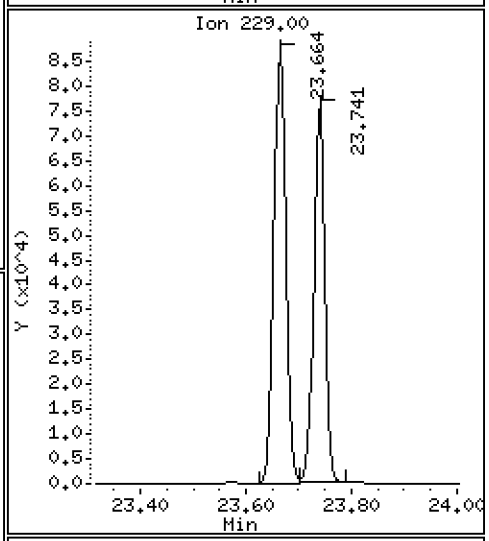


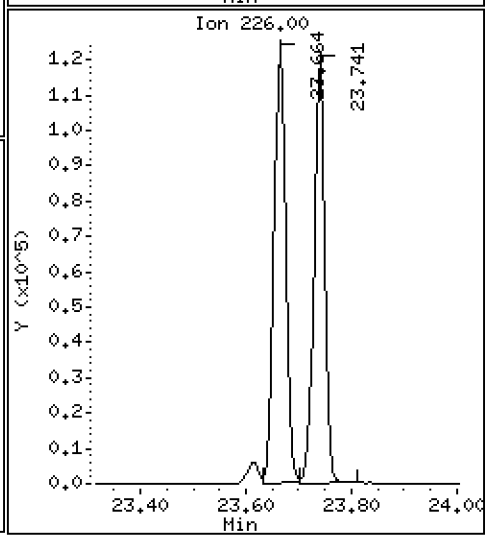












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

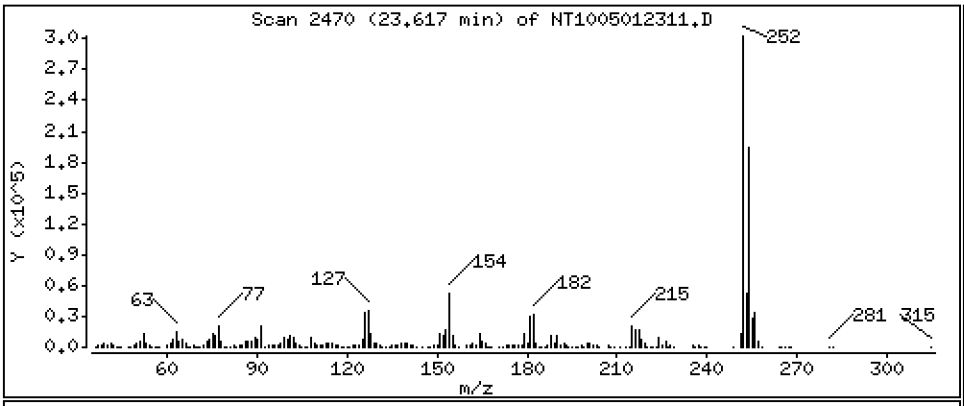
Operator: VTS

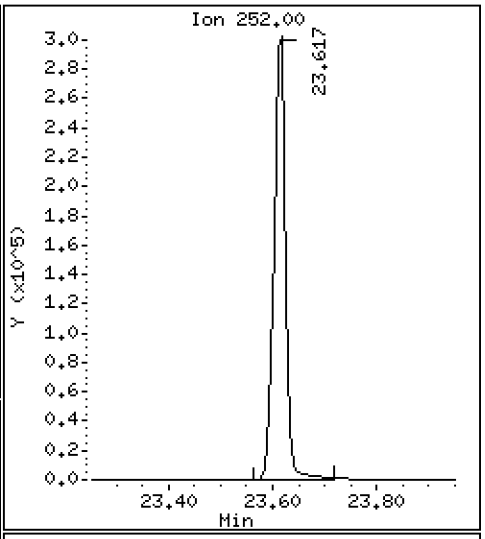
Column phase: ZB-5msi

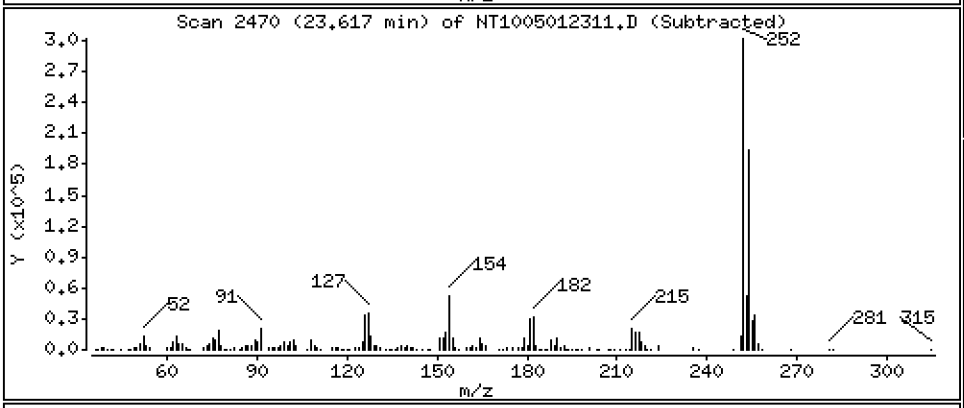
Column diameter: 0.25

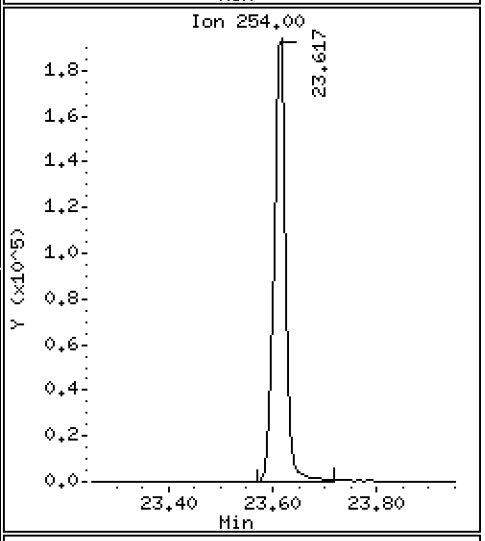
70 3,3'-Dichlorobenzidine

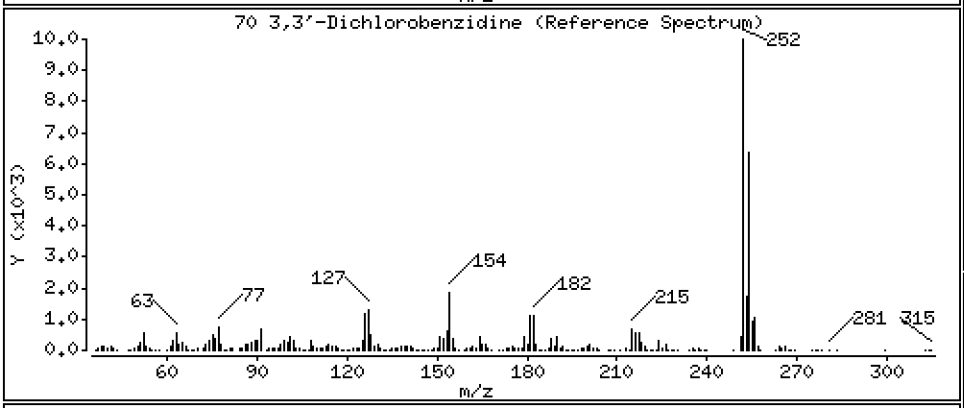
Concentration: 10.21 ug/mL

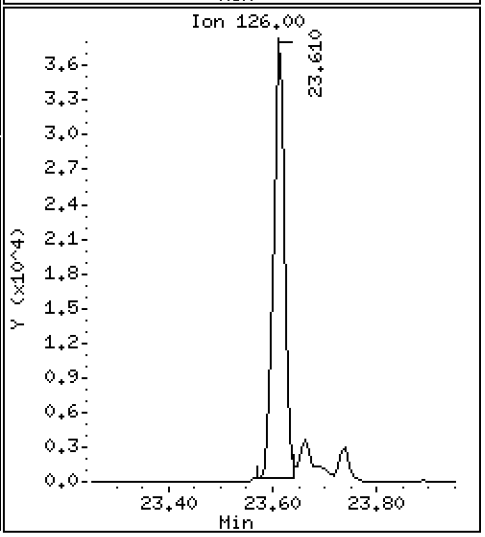


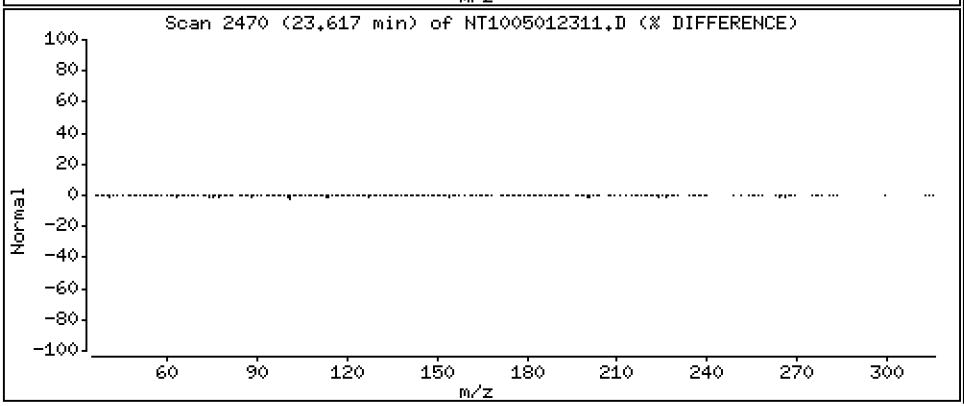












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

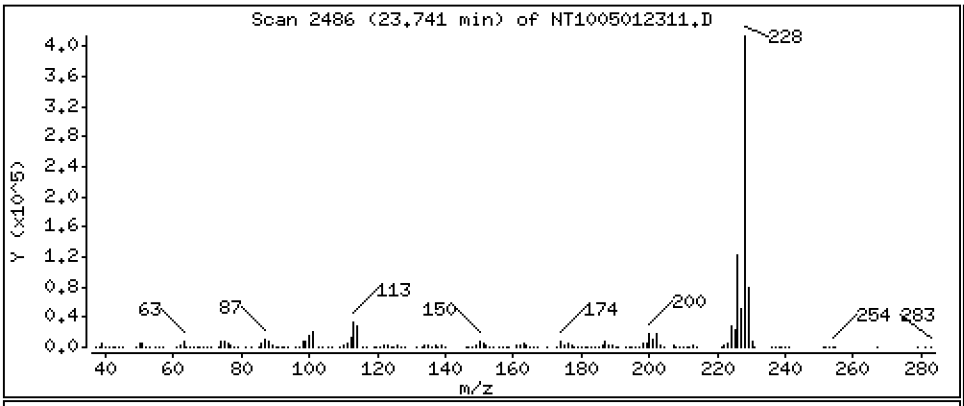
Operator: VTS

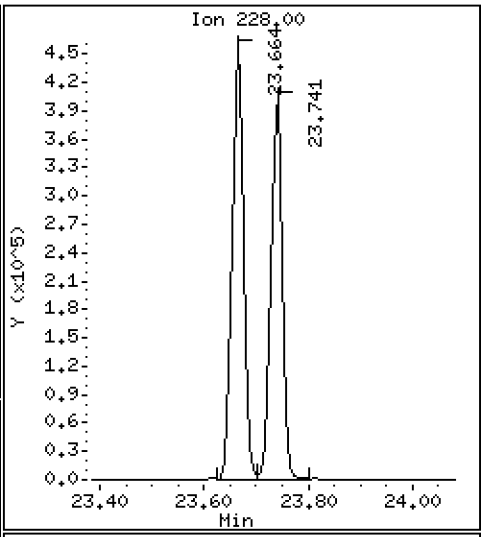
Column phase: ZB-5msi

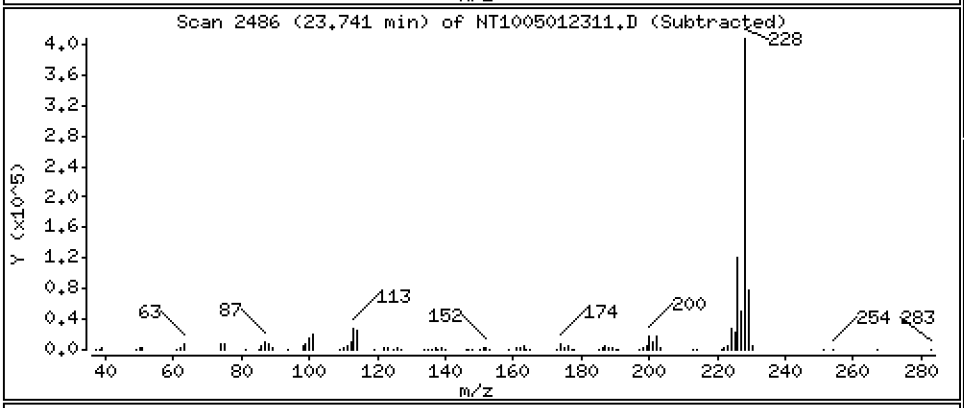
Column diameter: 0.25

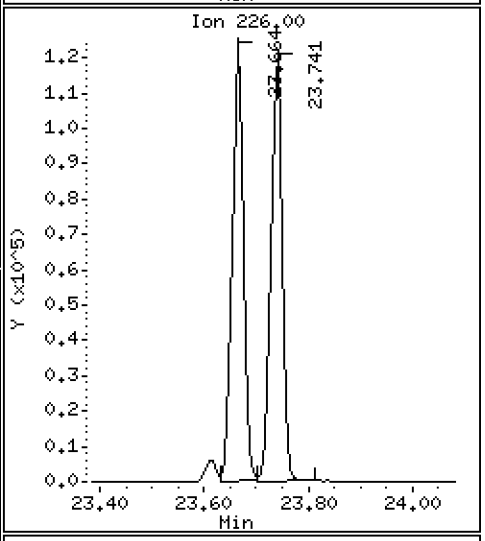
71 Chrysene

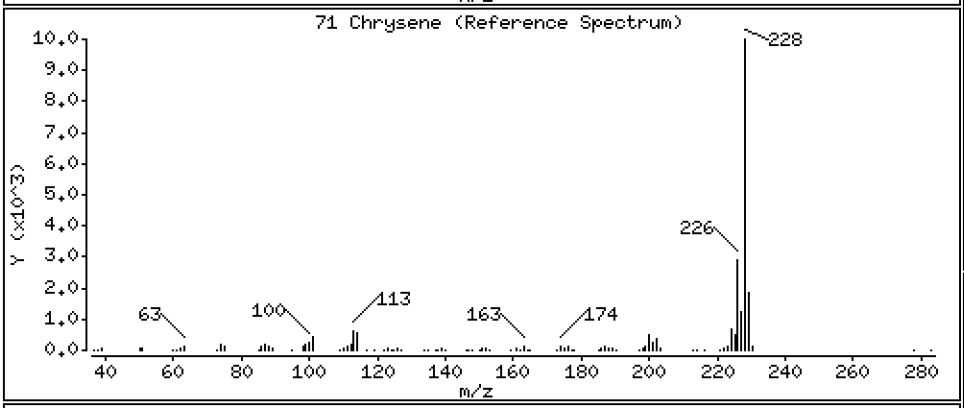
Concentration: 4.540 ug/mL

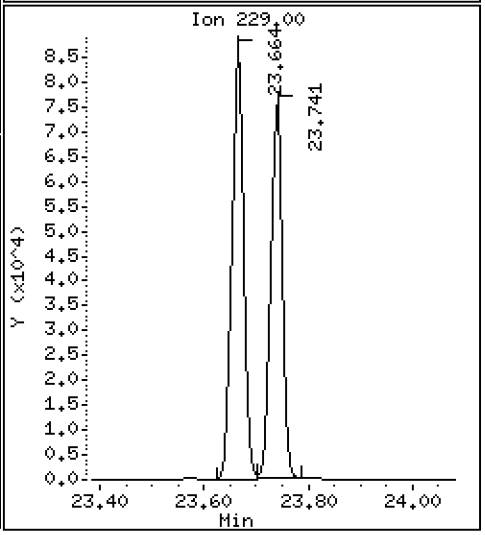


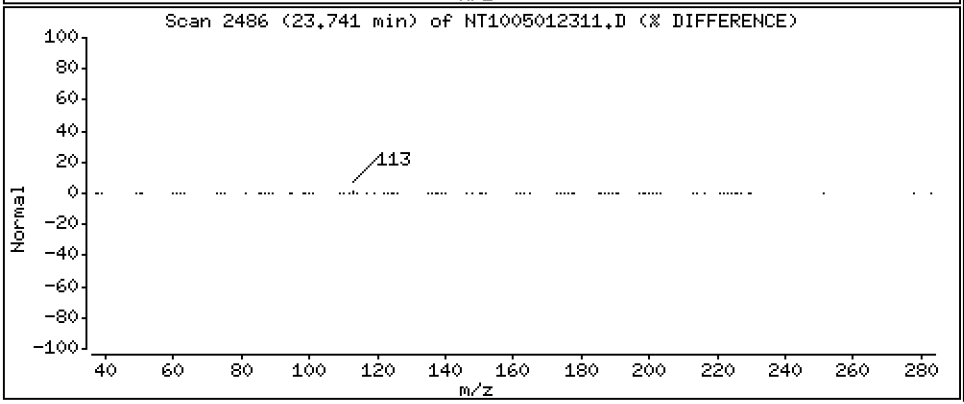












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

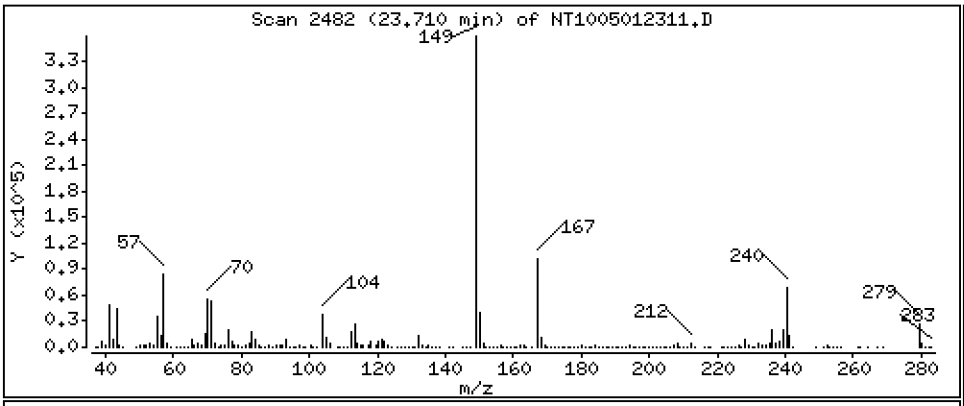
Operator: VTS

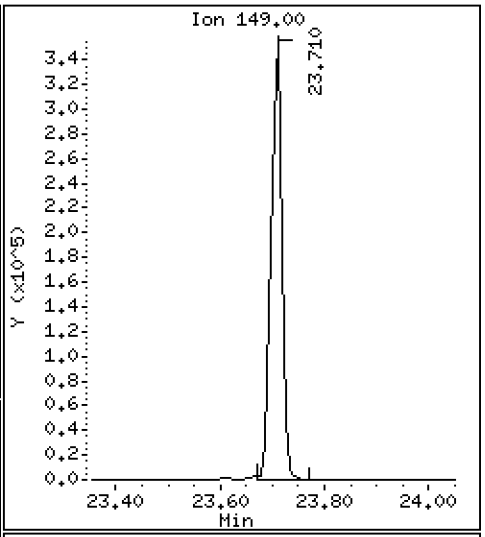
Column phase: ZB-5msi

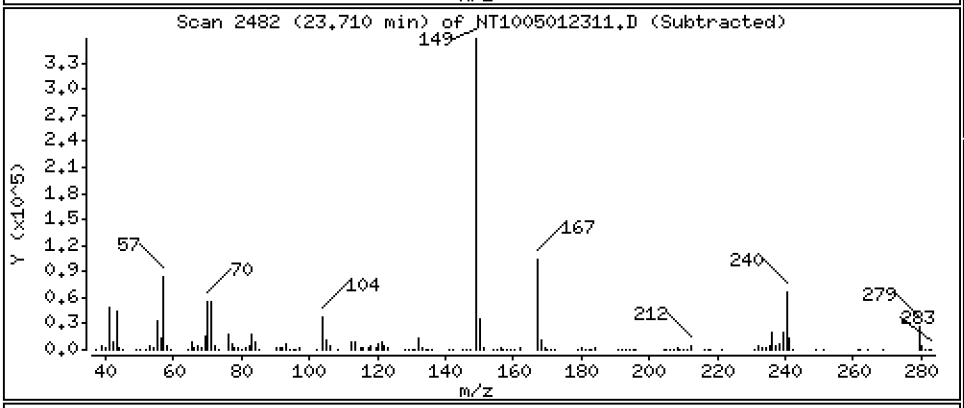
Column diameter: 0.25

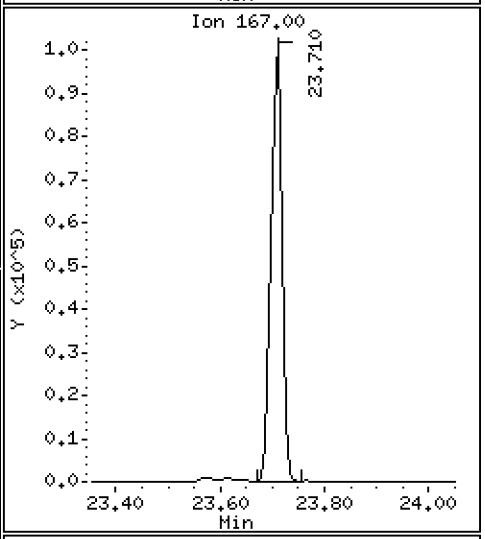
72 bis(2-Ethylhexyl)phthalate

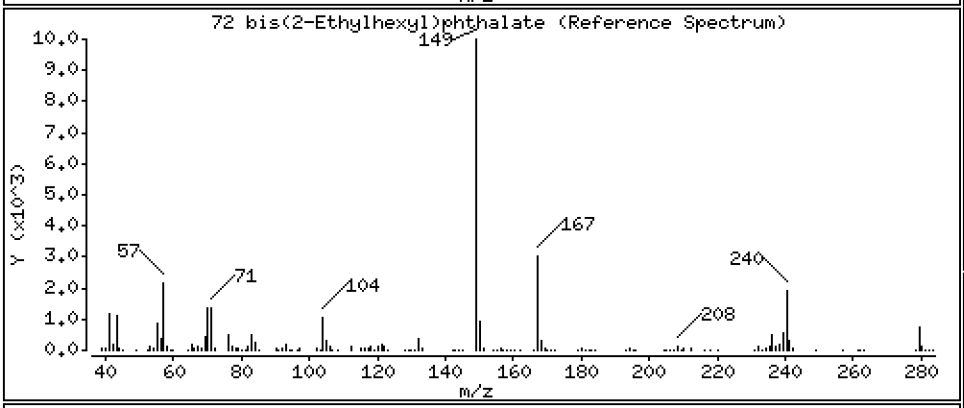
Concentration: 5.406 ug/mL

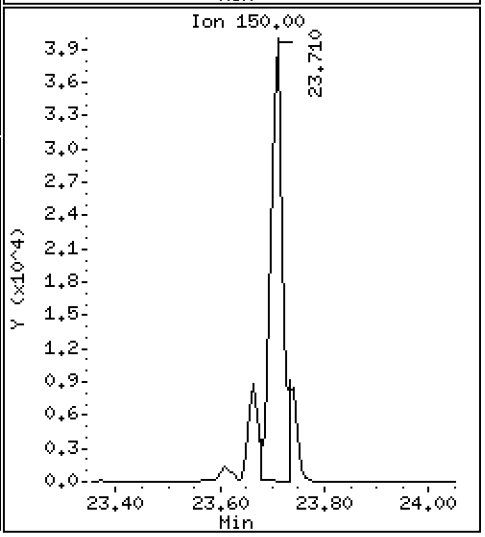


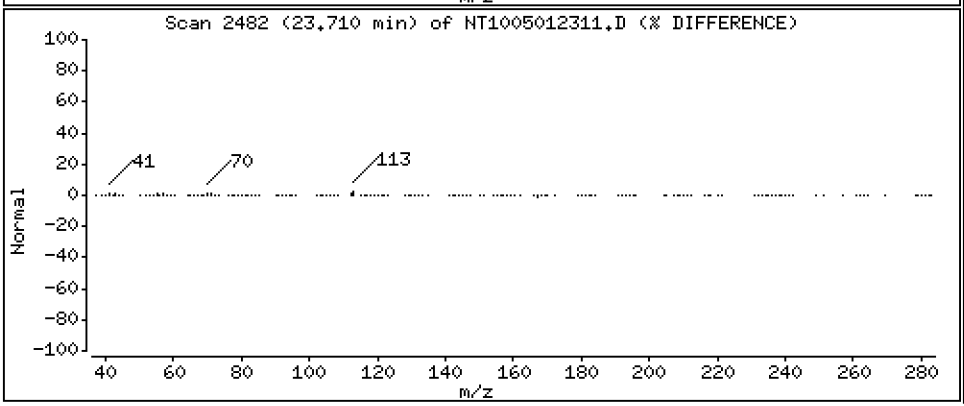












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

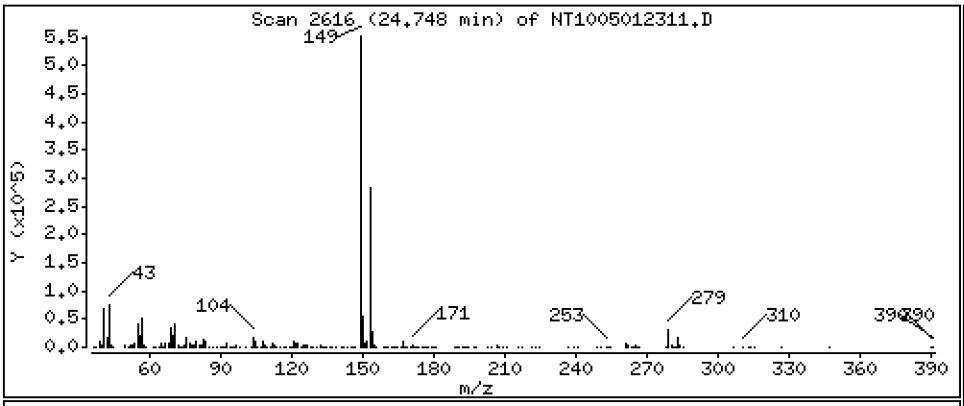
Operator: VTS

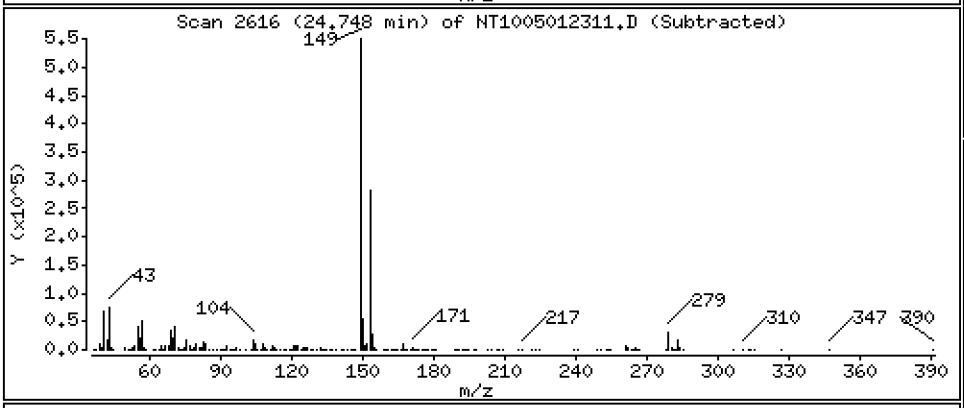
Column phase: ZB-5msi

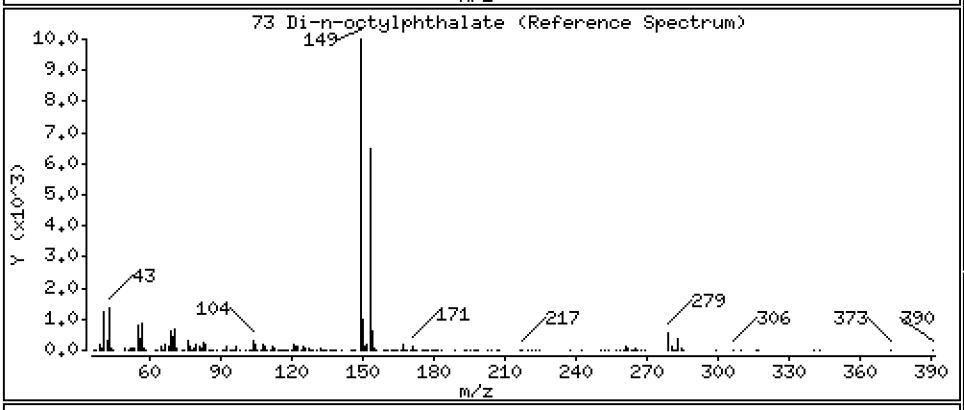
Column diameter: 0.25

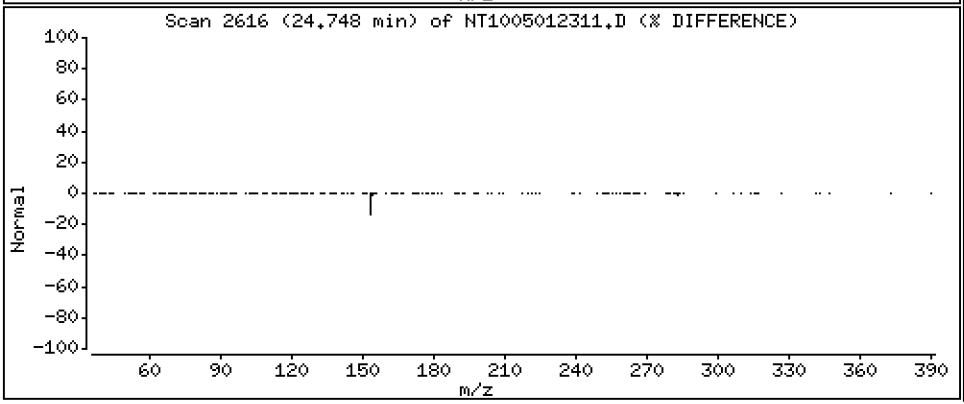
73 Di-n-octylphthalate

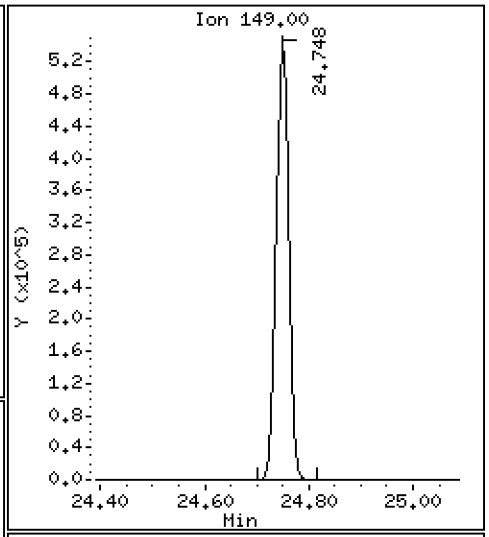
Concentration: 5.161 ug/mL

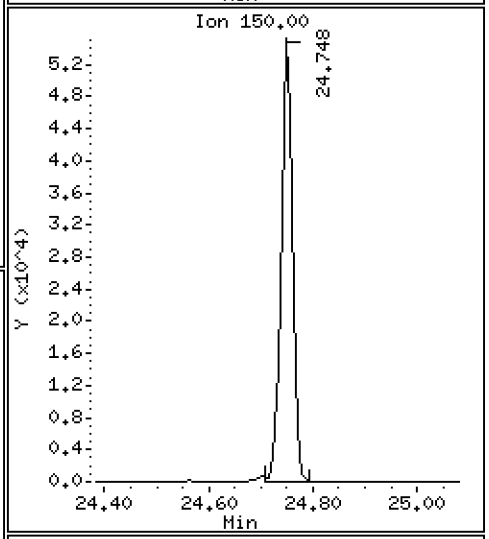


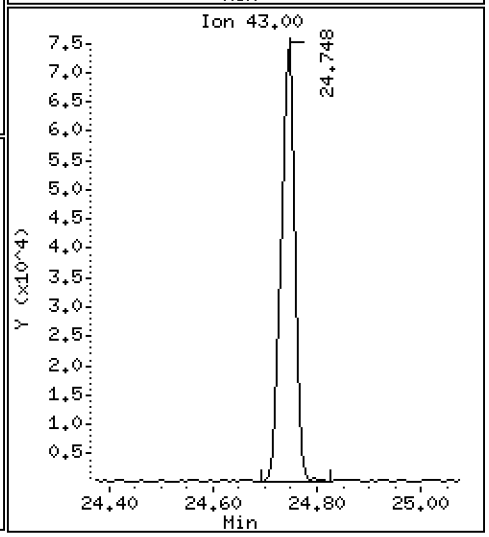












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

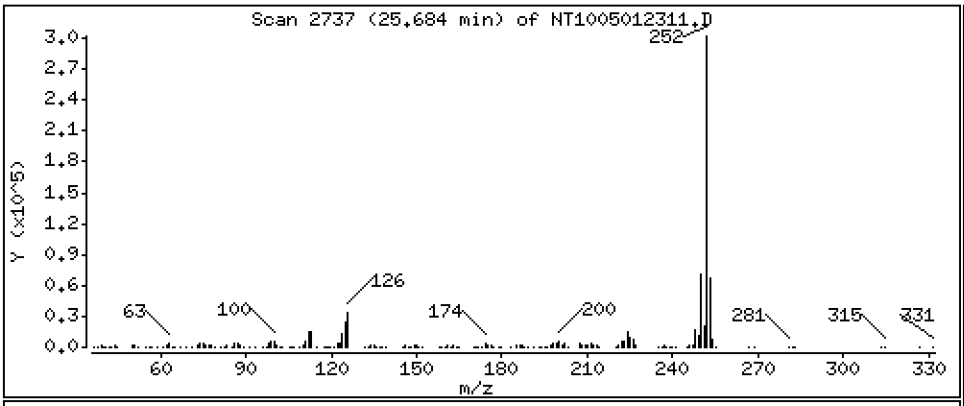
Operator: VTS

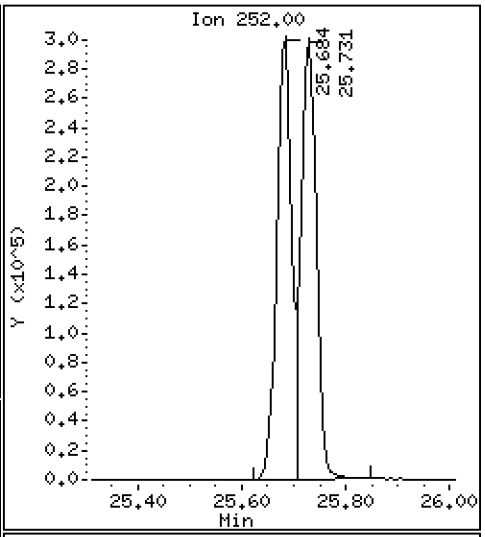
Column phase: ZB-5msi

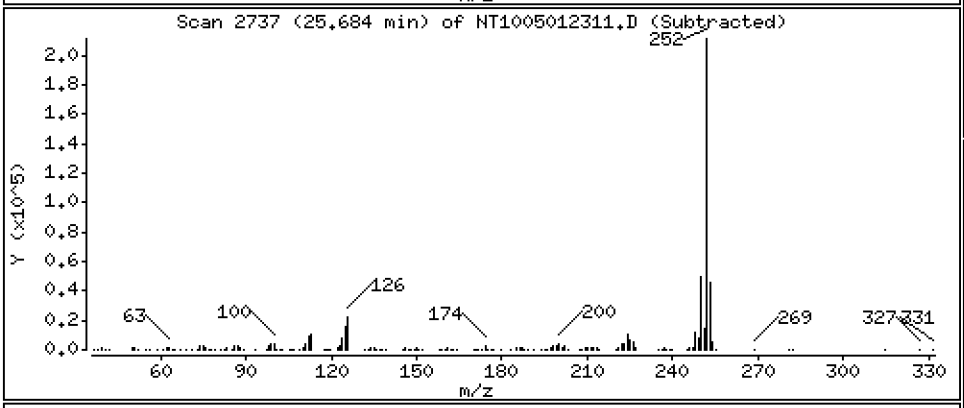
Column diameter: 0.25

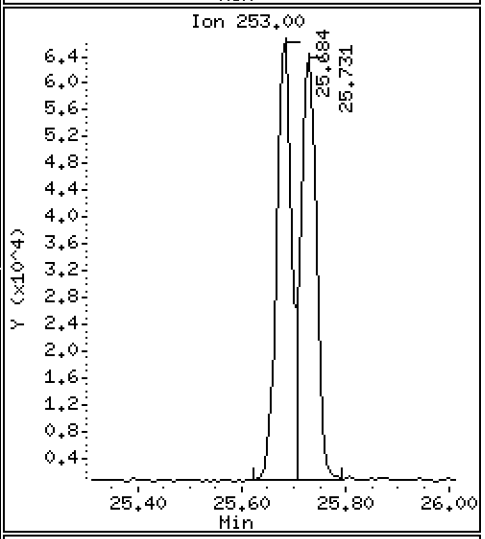
74 Benzo(b)fluoranthene

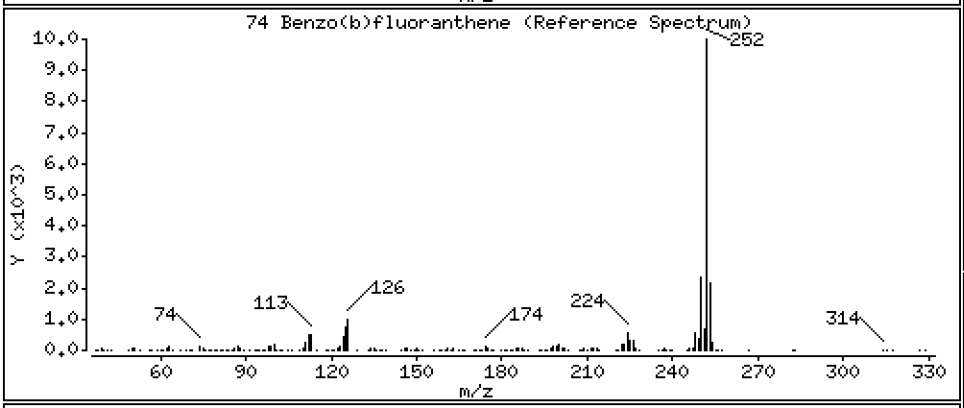
Concentration: 4.785 ug/mL

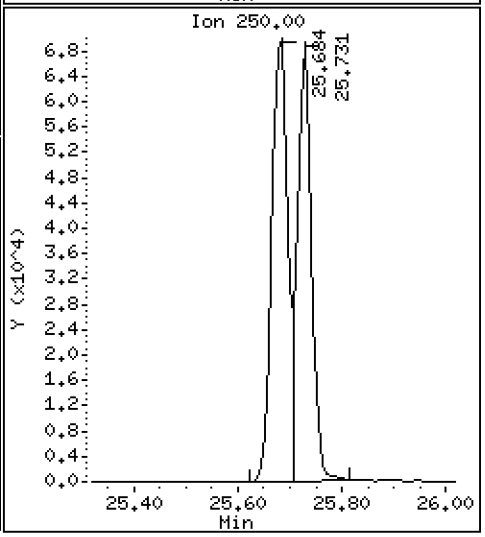


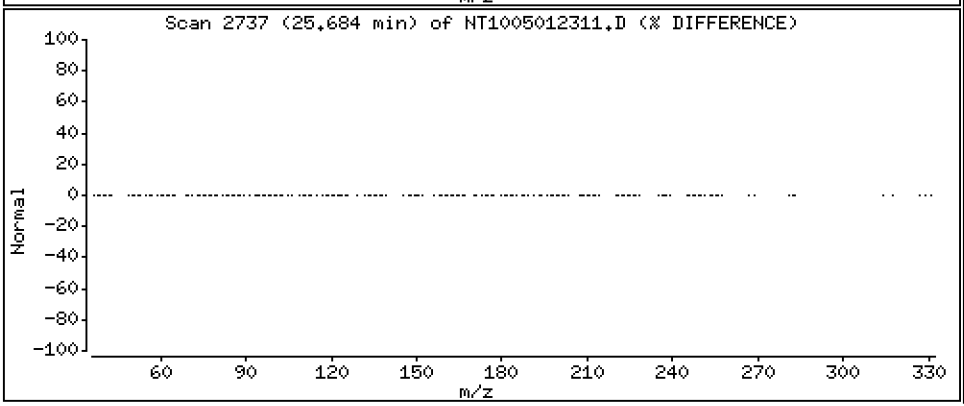












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

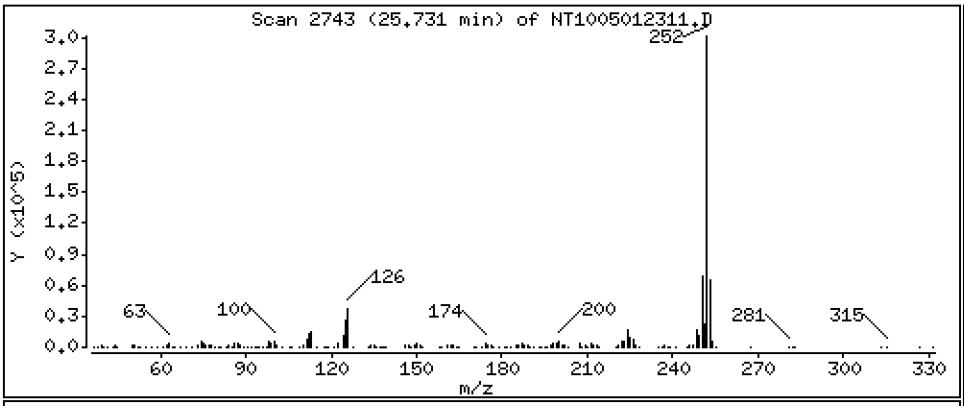
Operator: VTS

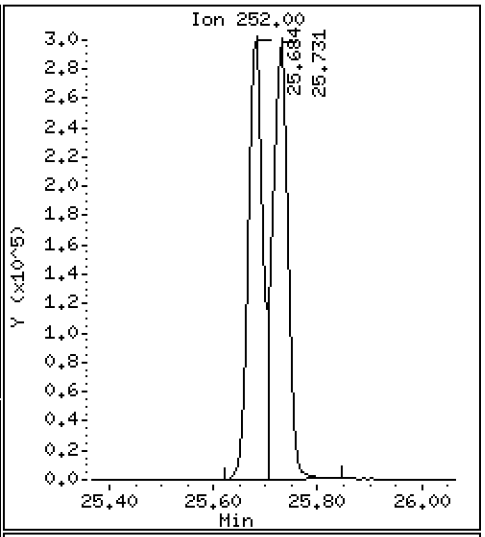
Column phase: ZB-5msi

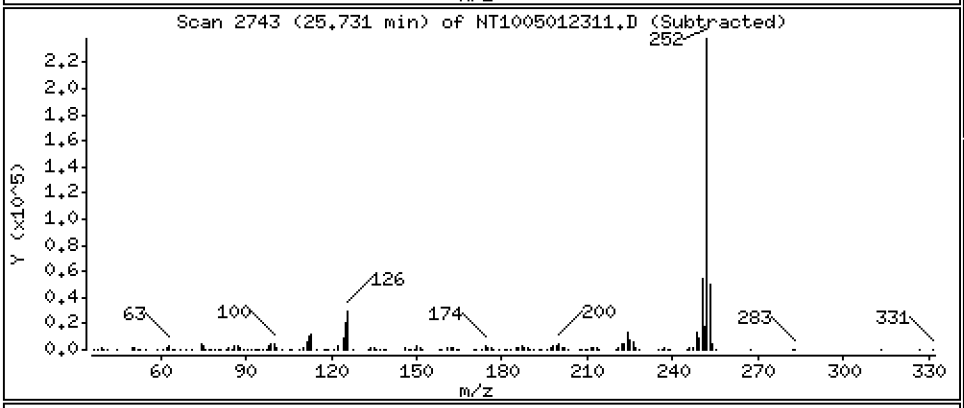
Column diameter: 0.25

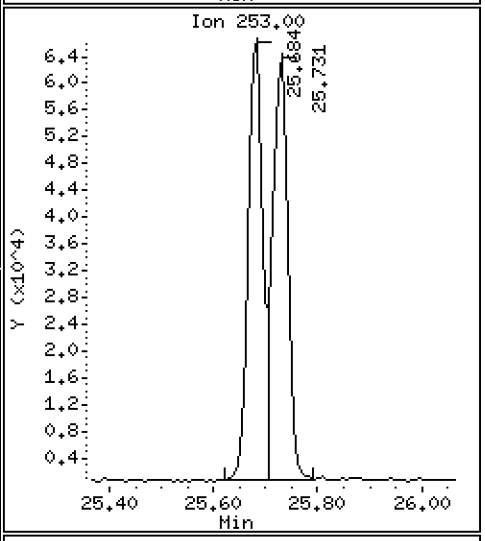
75 Benzo(k)fluoranthene

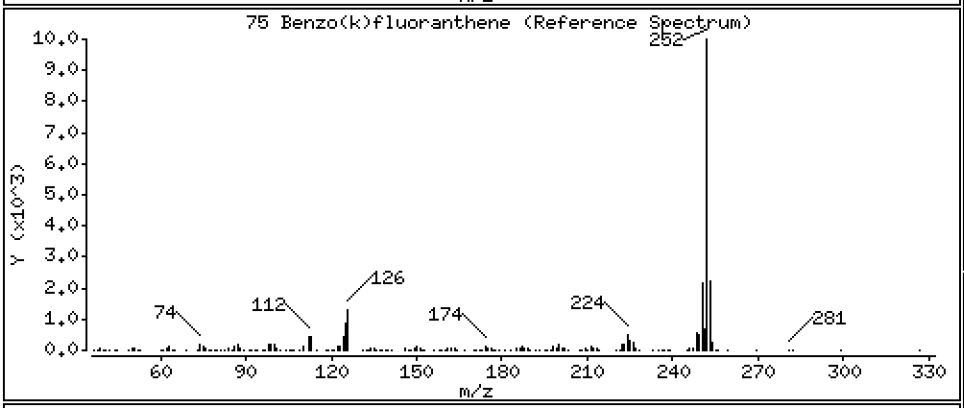
Concentration: 4.457 ug/mL

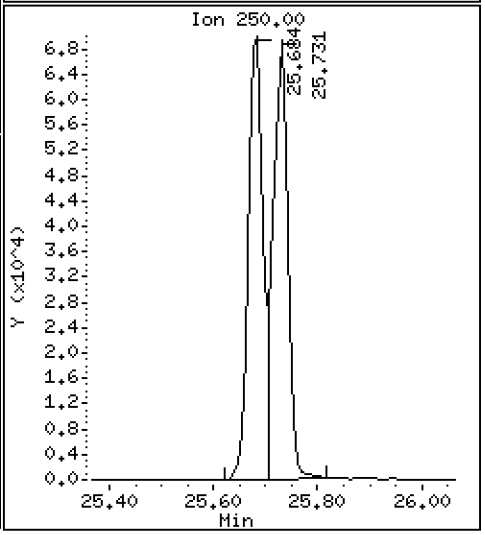


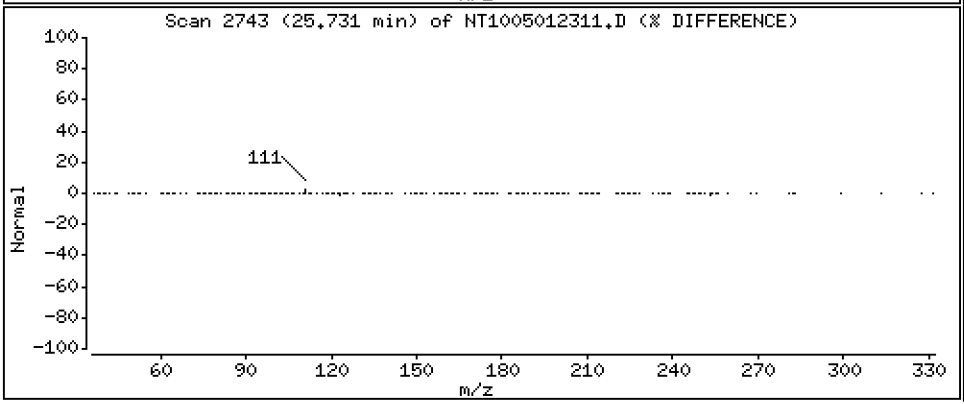












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

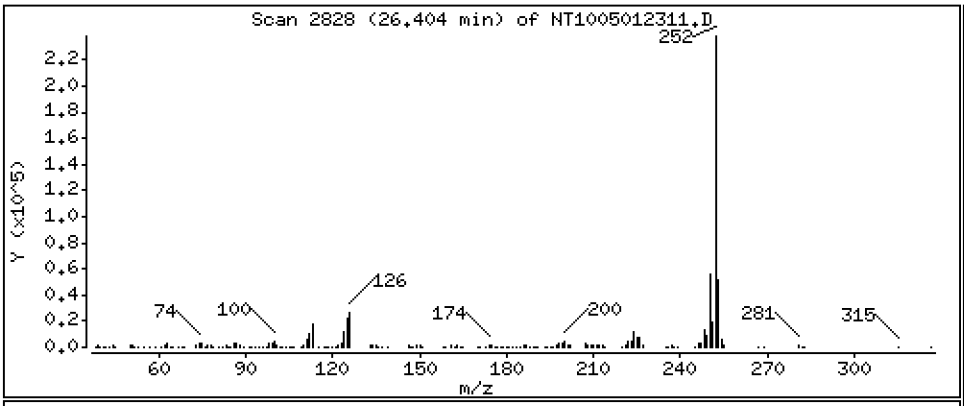
Operator: VTS

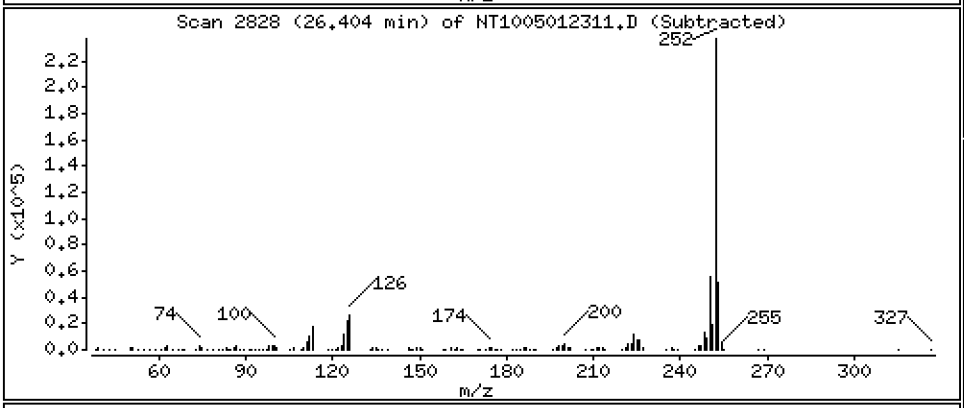
Column phase: ZB-5msi

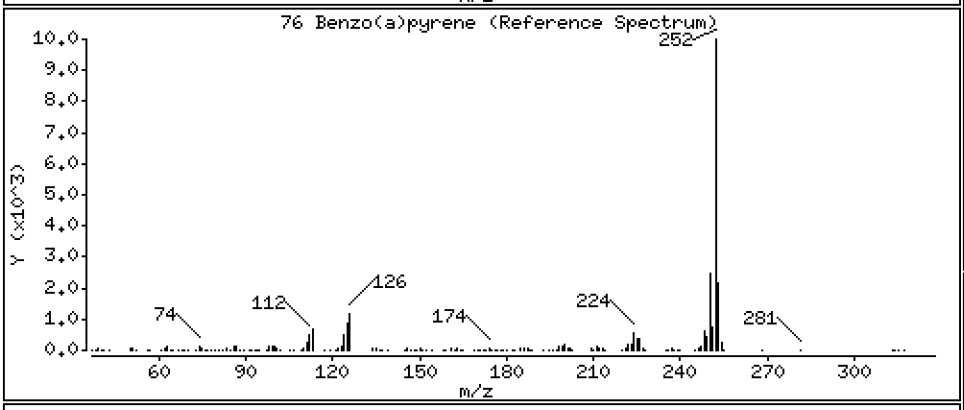
Column diameter: 0.25

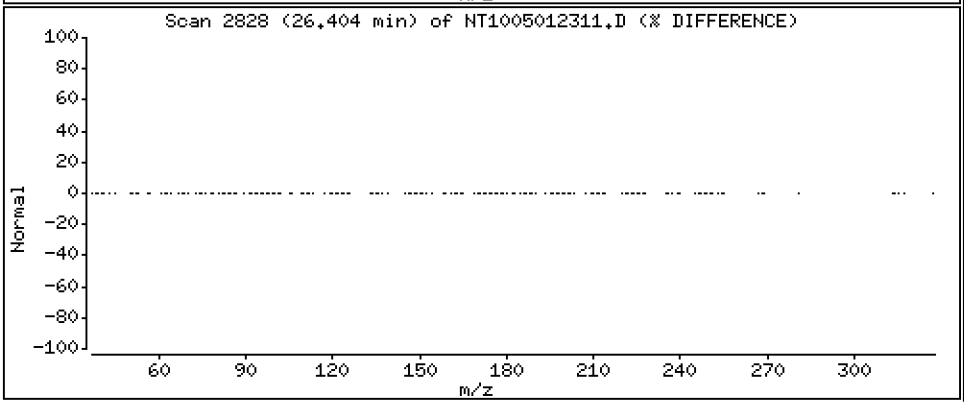
76 Benzo(a)pyrene

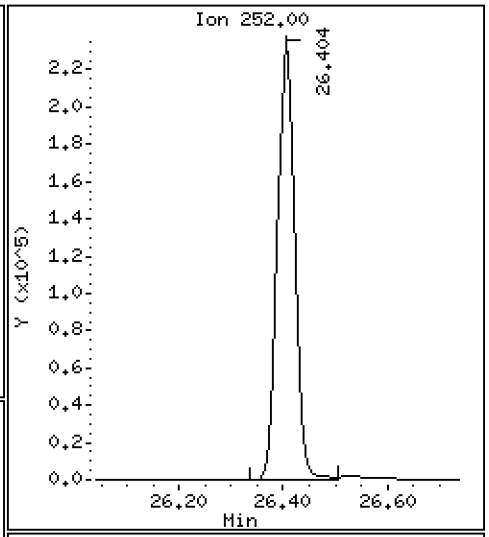
Concentration: 4.787 ug/mL

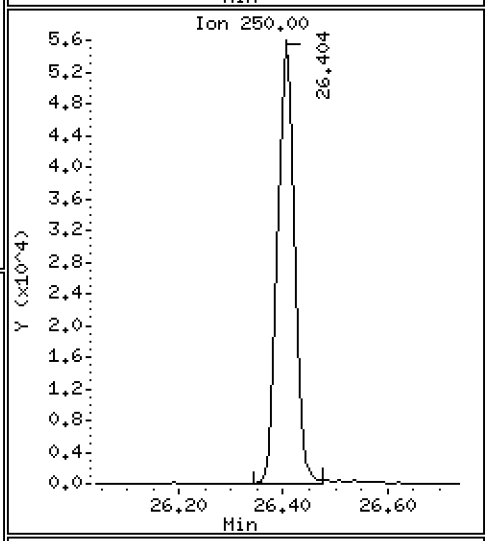


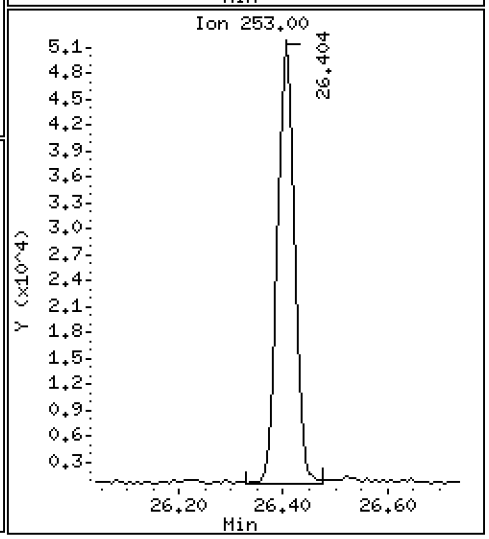












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

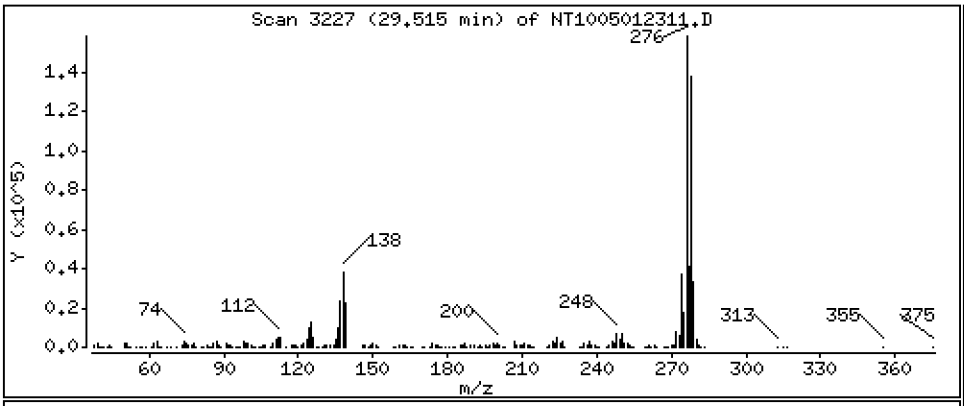
Operator: VTS

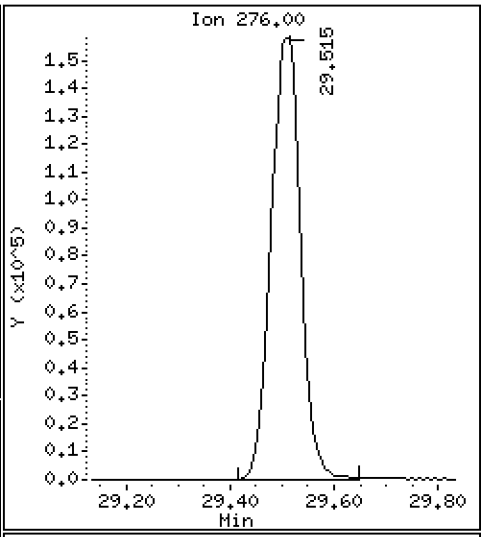
Column phase: ZB-5msi

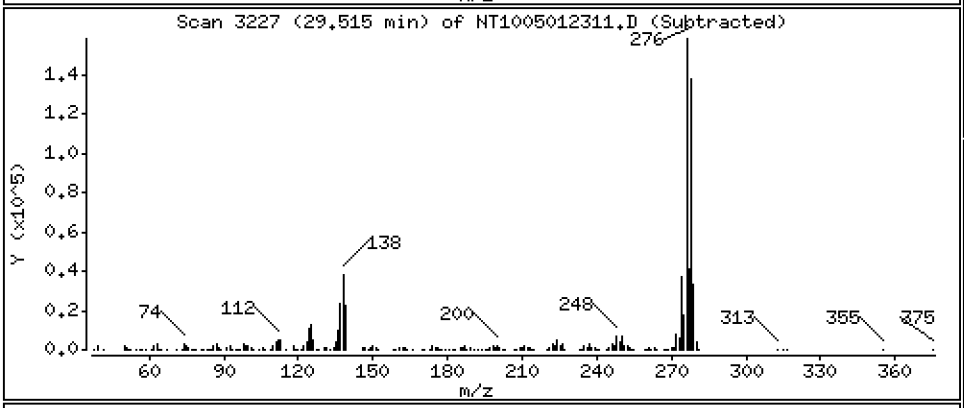
Column diameter: 0.25

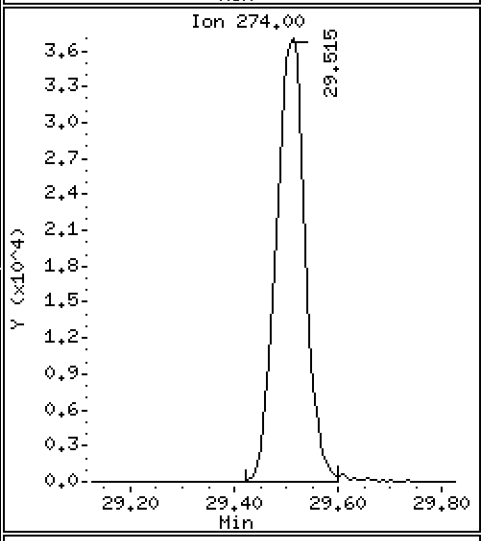
78 Indeno(1,2,3-cd)pyrene

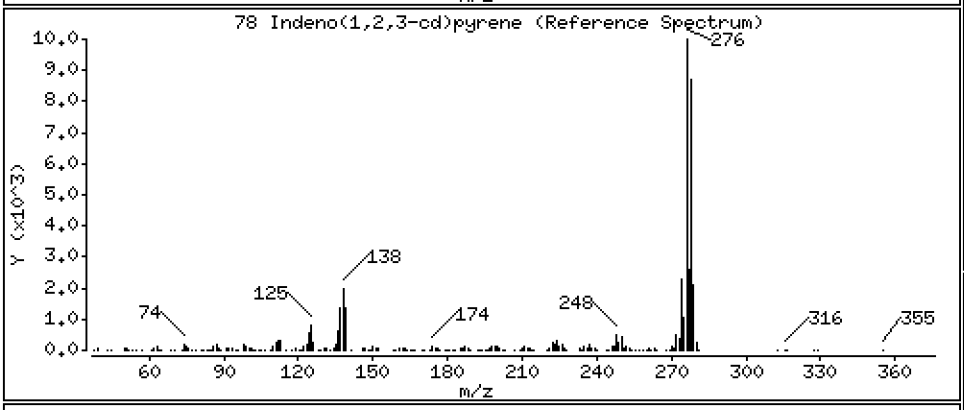
Concentration: 4.677 ug/mL

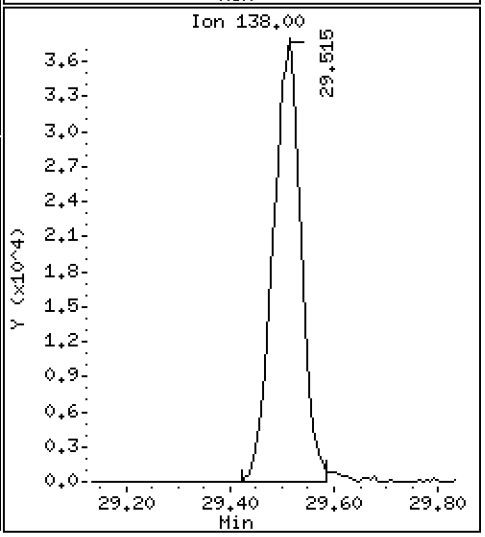


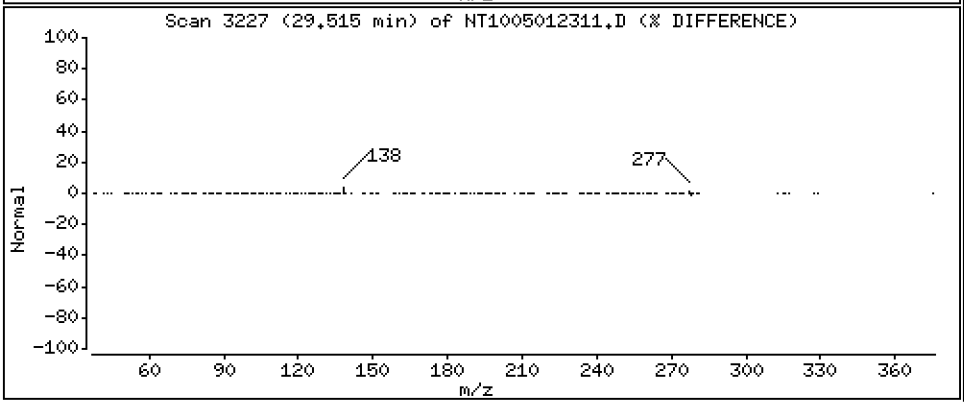












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

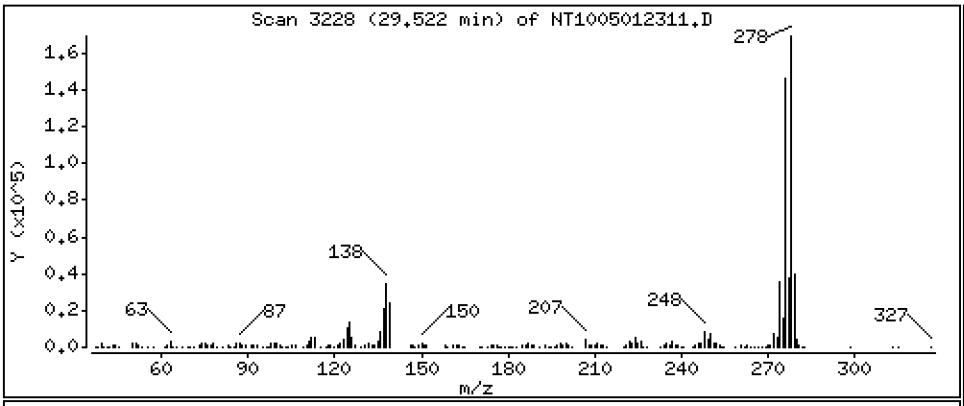
Operator: VTS

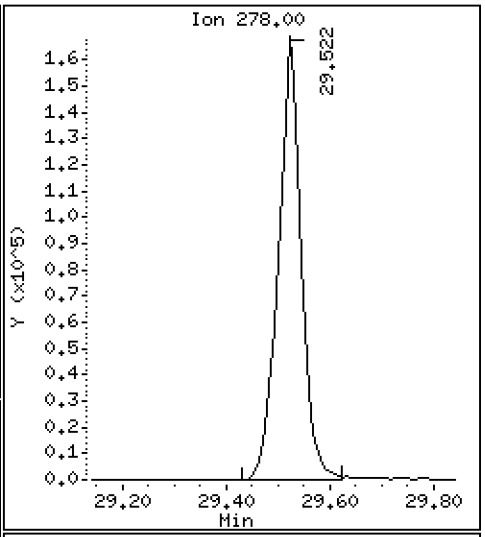
Column phase: ZB-5msi

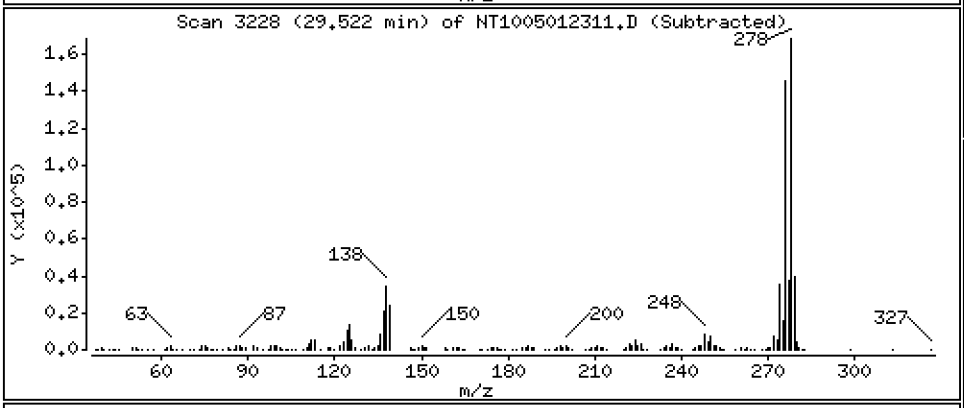
Column diameter: 0.25

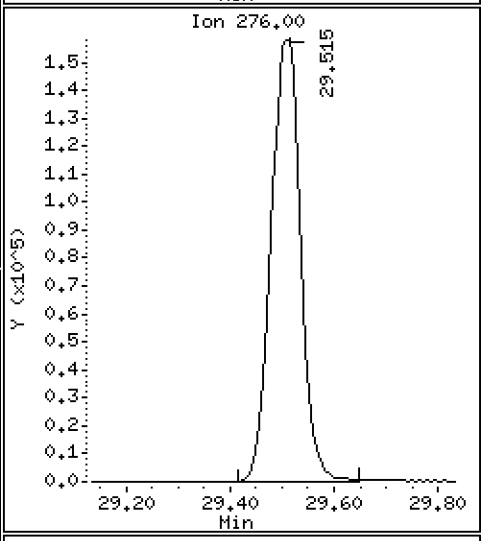
79 Dibenzo(a,h)anthracene

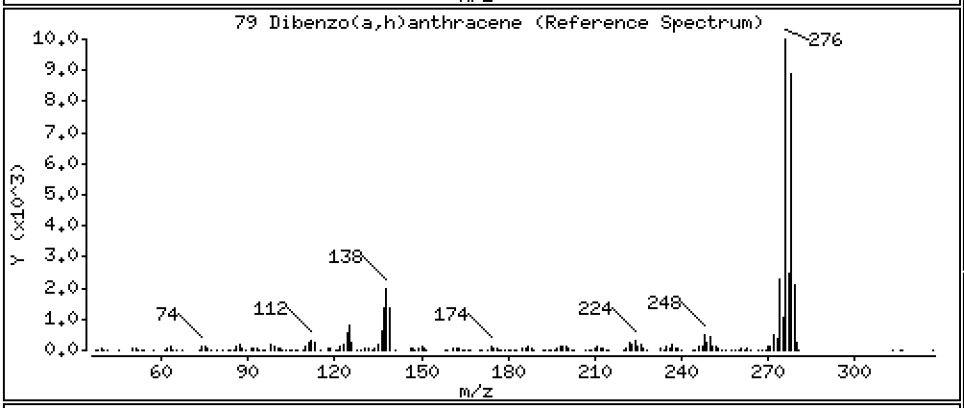
Concentration: 4.649 ug/mL

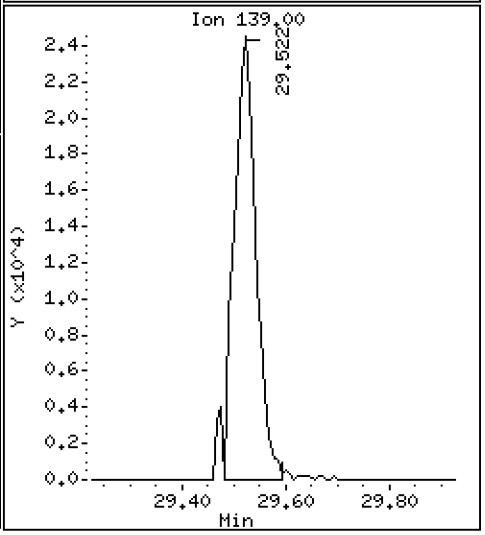


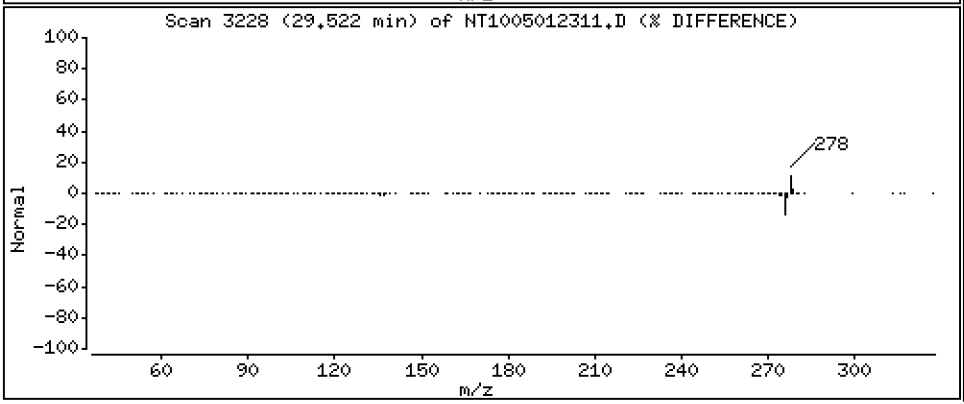












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

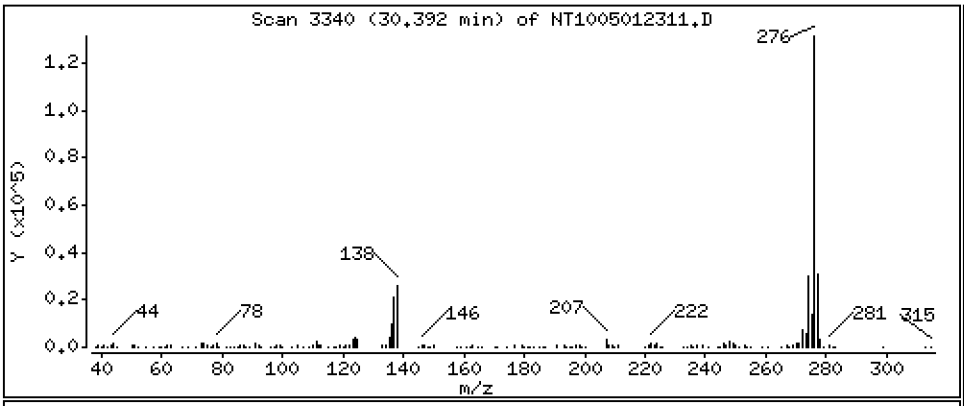
Operator: VTS

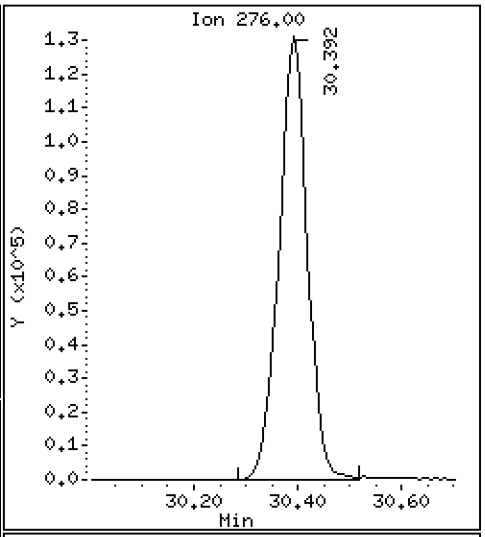
Column phase: ZB-5msi

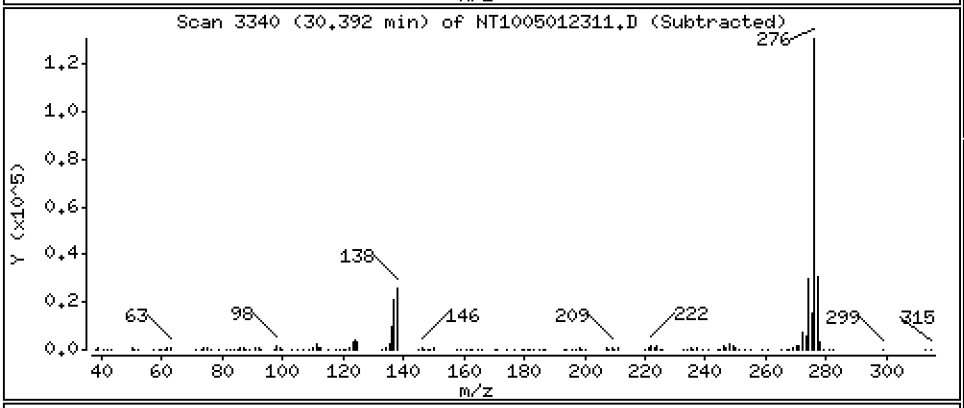
Column diameter: 0.25

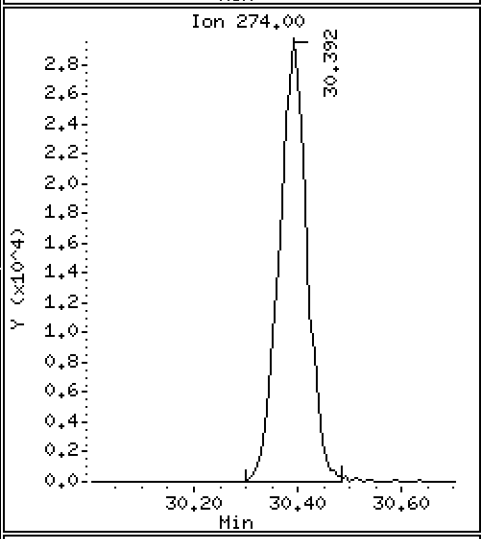
80 Benzo(g,h,i)perylene

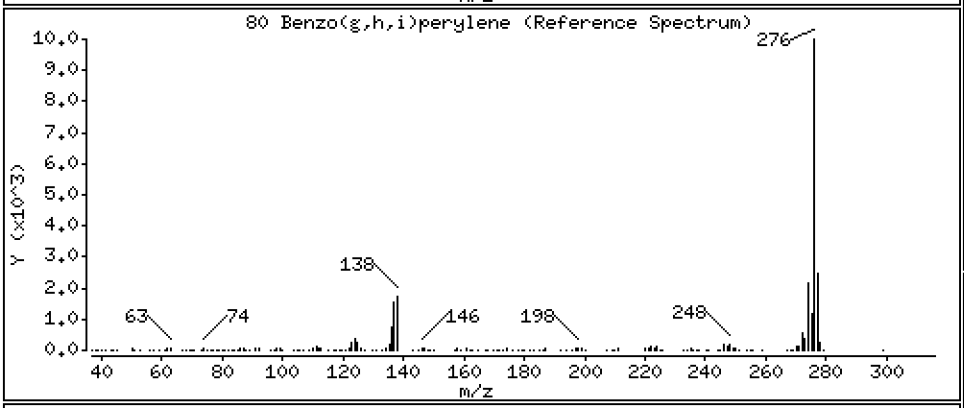
Concentration: 4.659 ug/mL

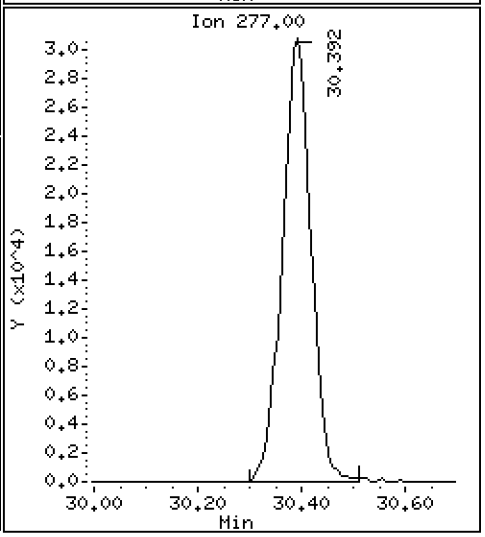


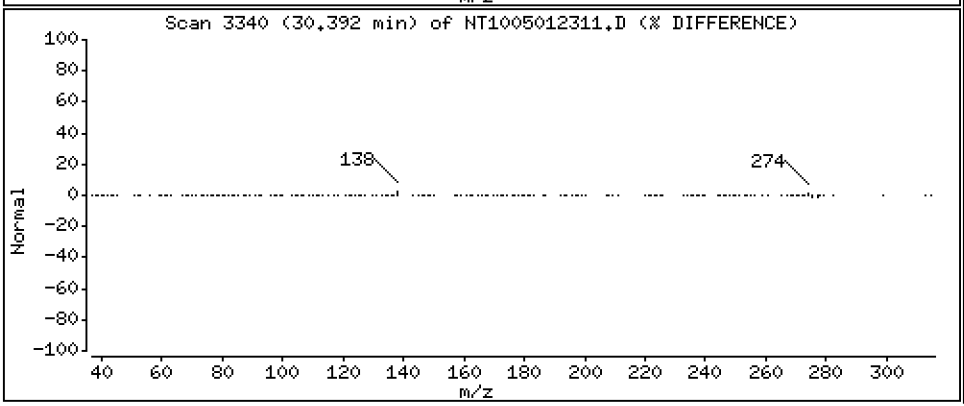












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

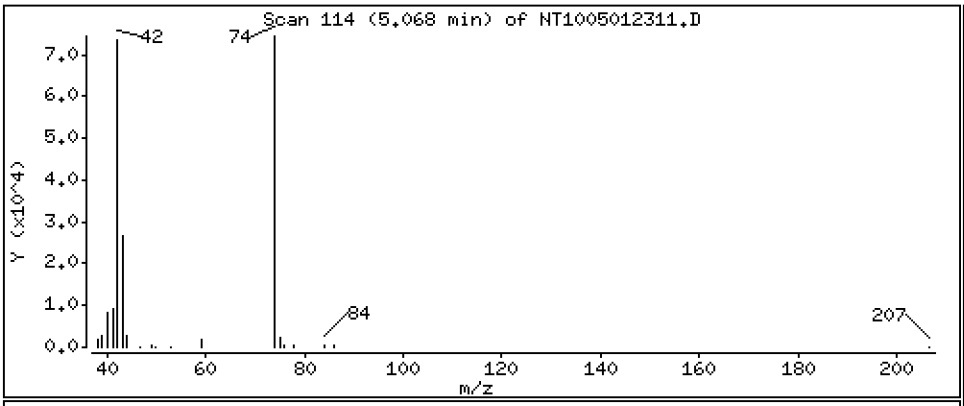
Operator: VTS

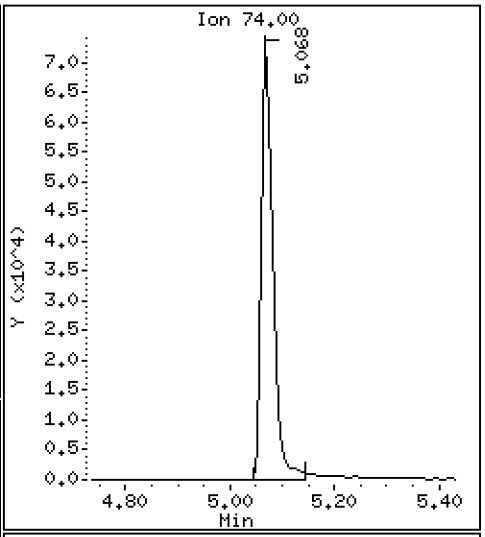
Column phase: ZB-5msi

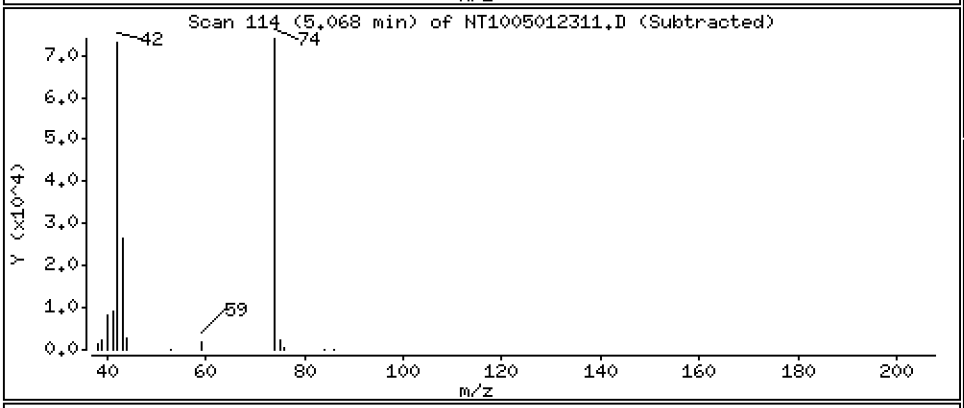
Column diameter: 0.25

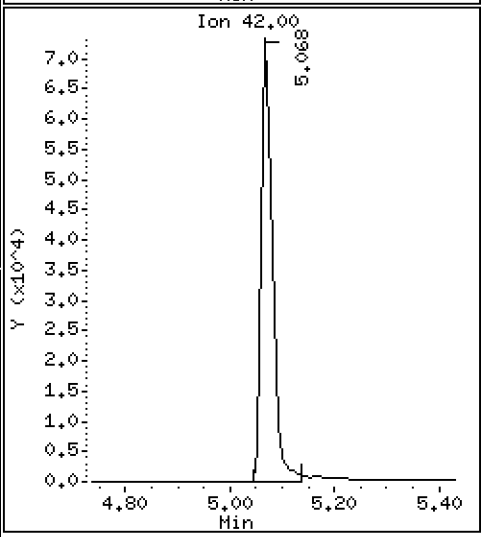
90 N-Nitrosodimethylamine

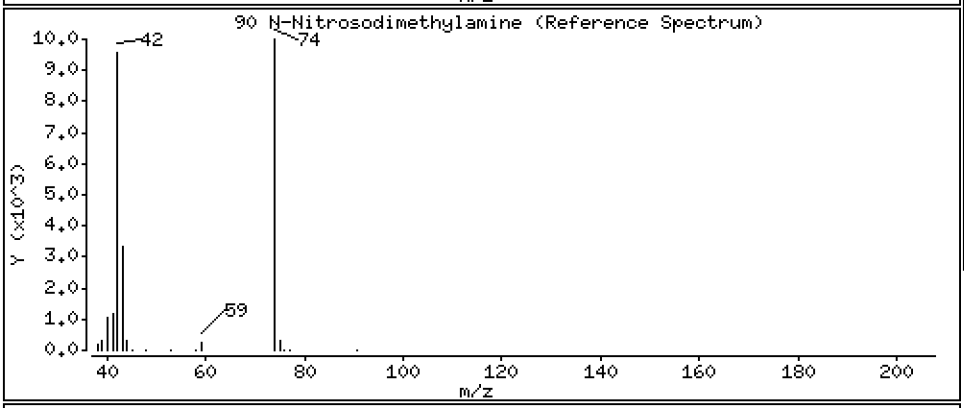
Concentration: 5.190 ug/mL

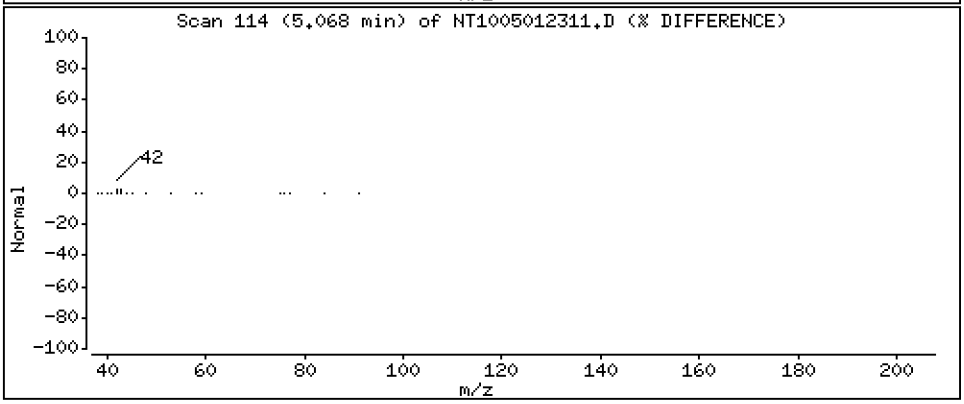












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

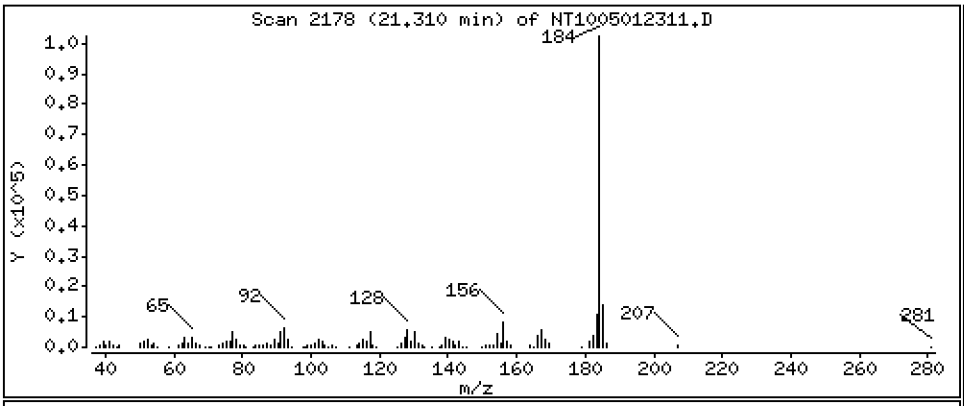
Operator: VTS

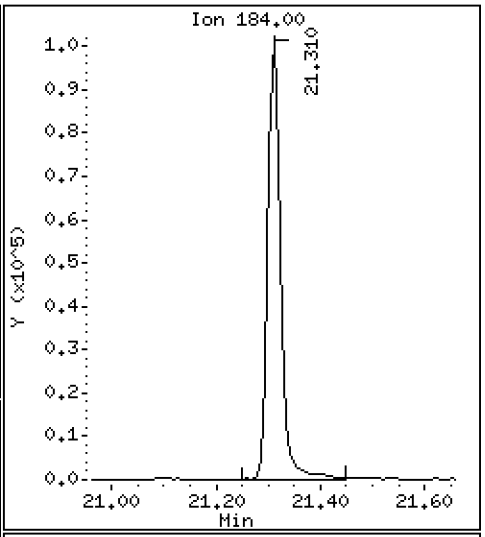
Column phase: ZB-5msi

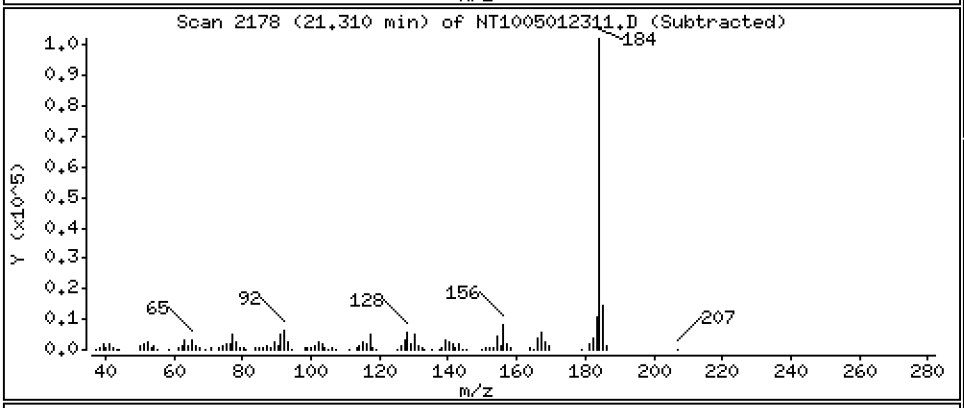
Column diameter: 0.25

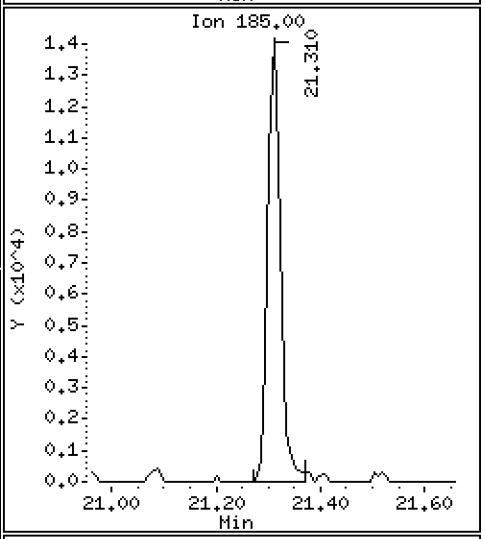
93 Benzidine

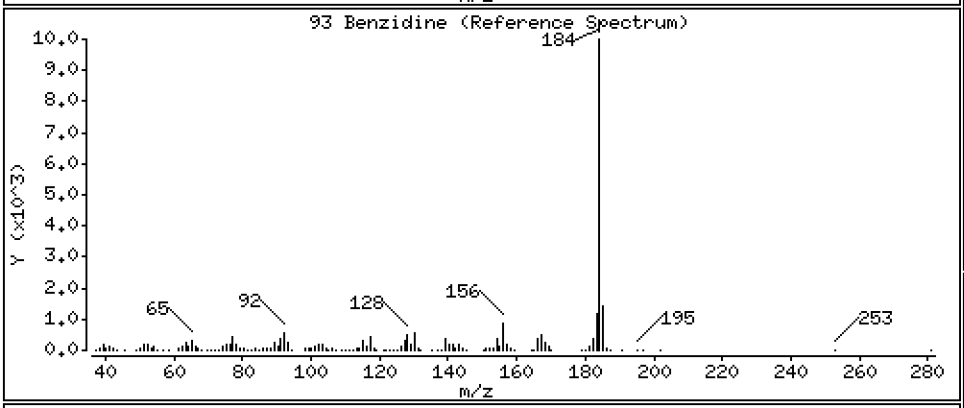
Concentration: 2.801 ug/mL

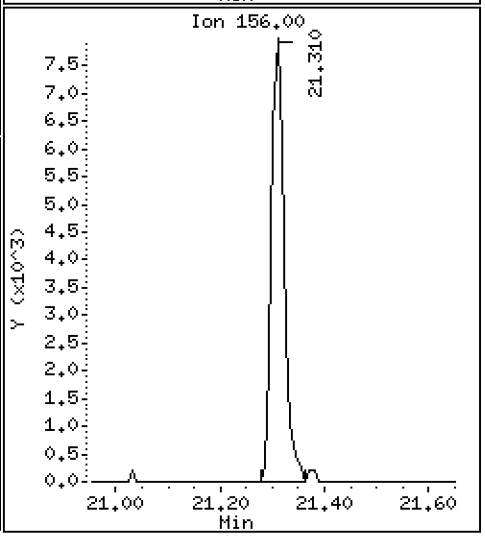


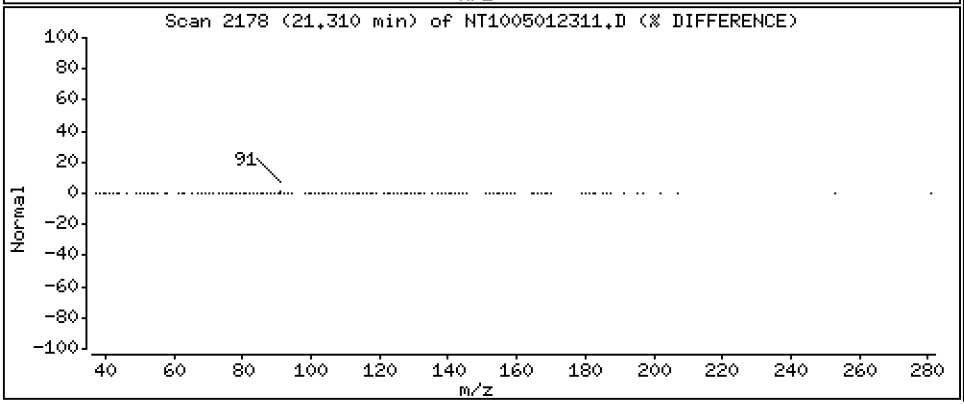












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

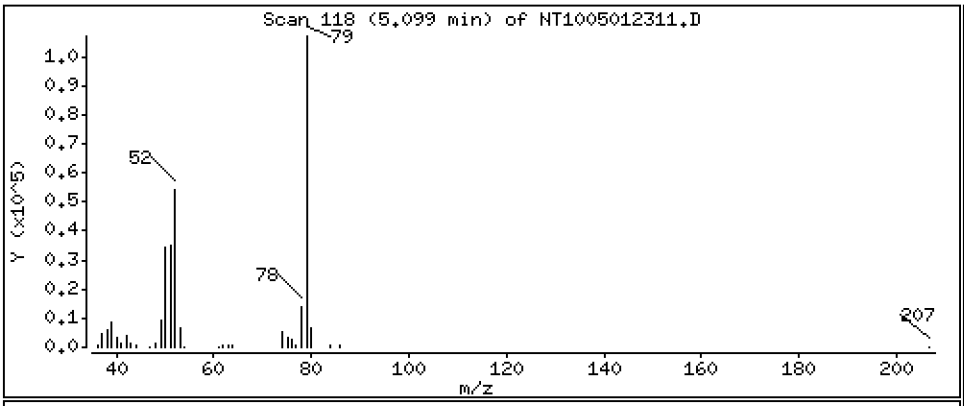
Operator: VTS

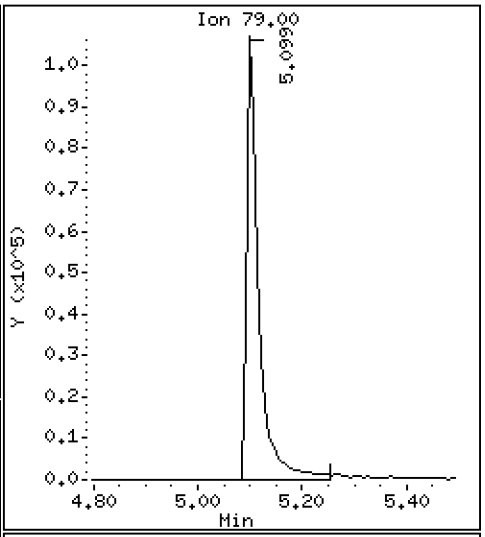
Column phase: ZB-5msi

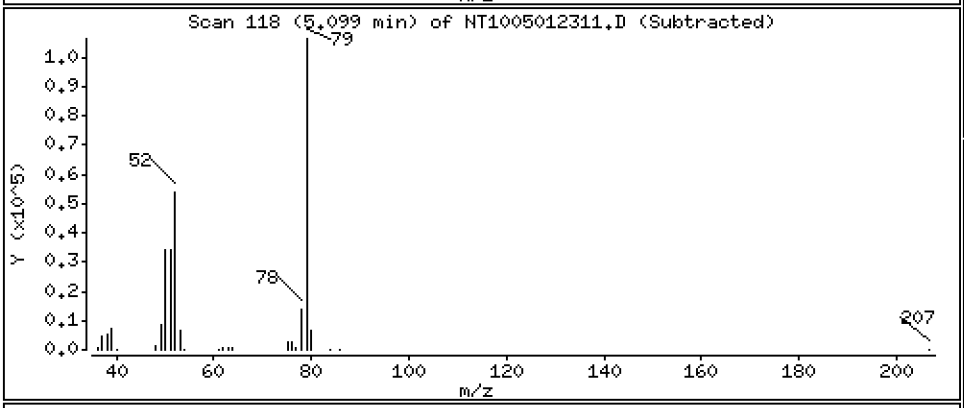
Column diameter: 0.25

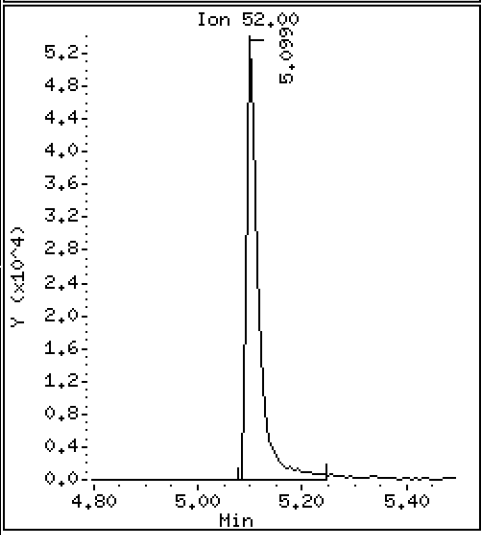
103 Pyridine

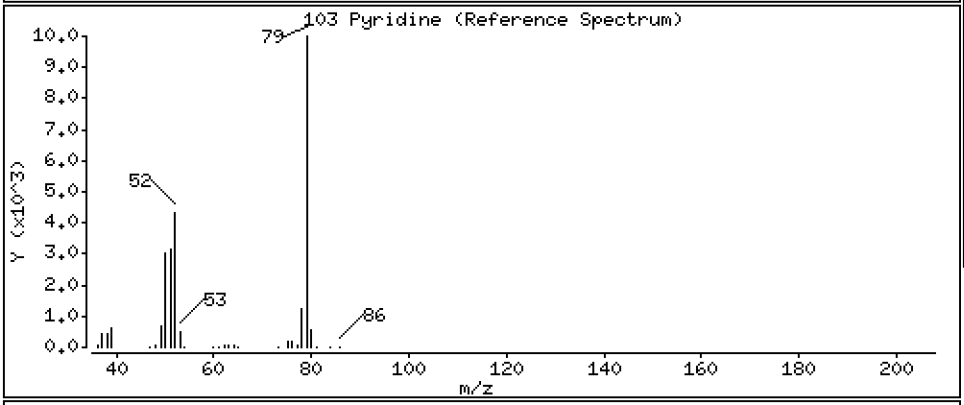
Concentration: 5.329 ug/mL

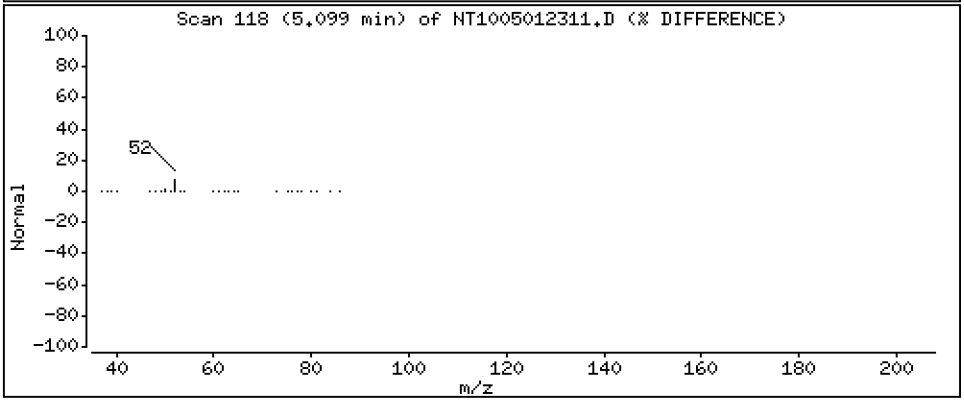












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

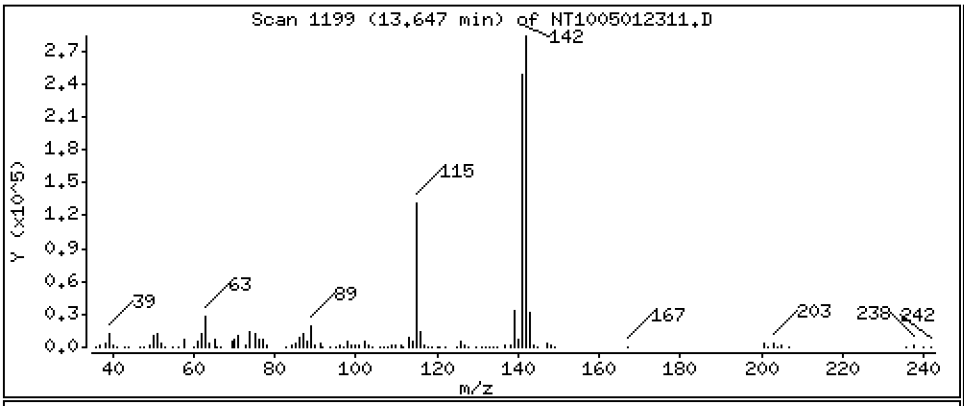
Operator: VTS

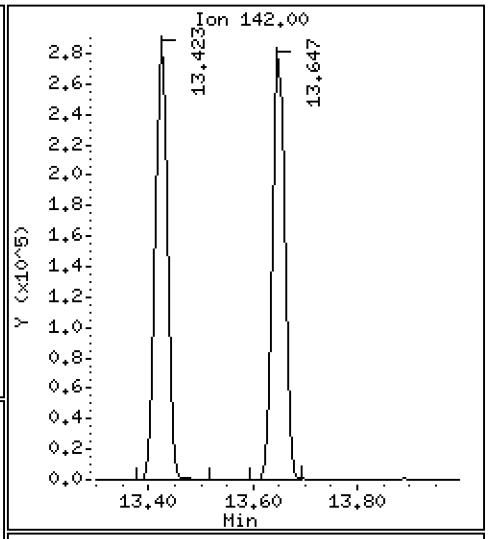
Column phase: ZB-5msi

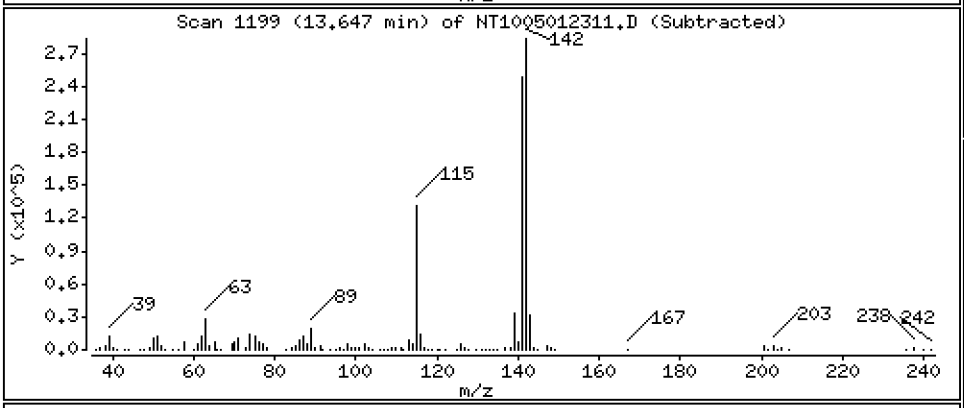
Column diameter: 0.25

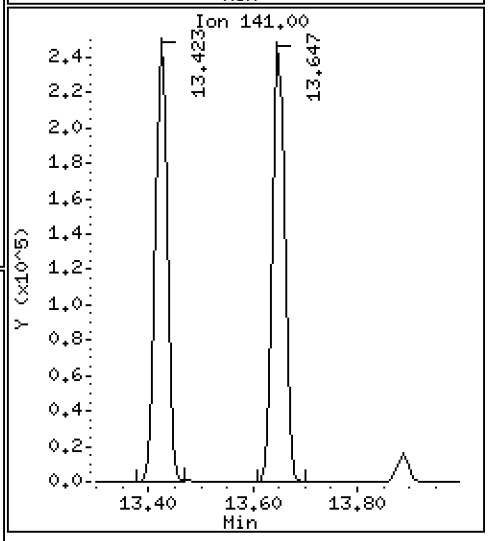
105 1-methylnaphthalene

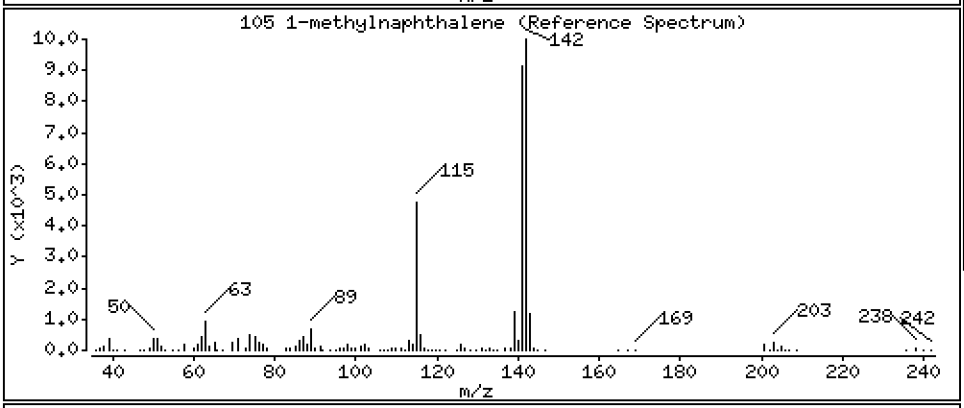
Concentration: 4.835 ug/mL

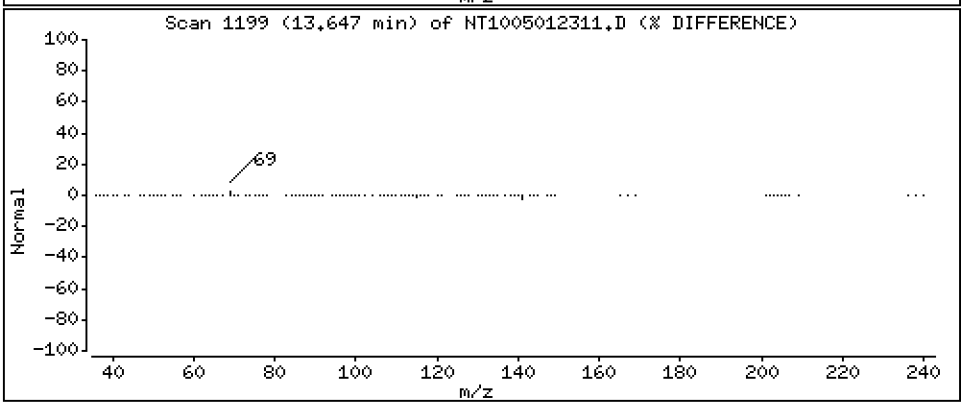












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

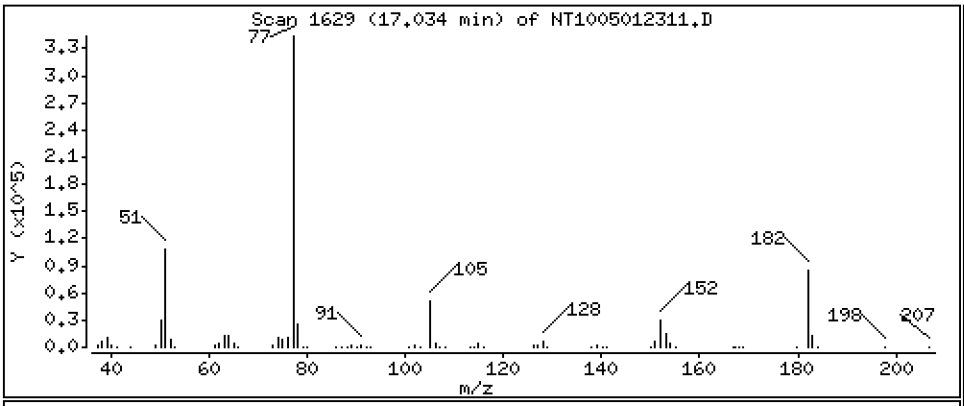
Operator: VTS

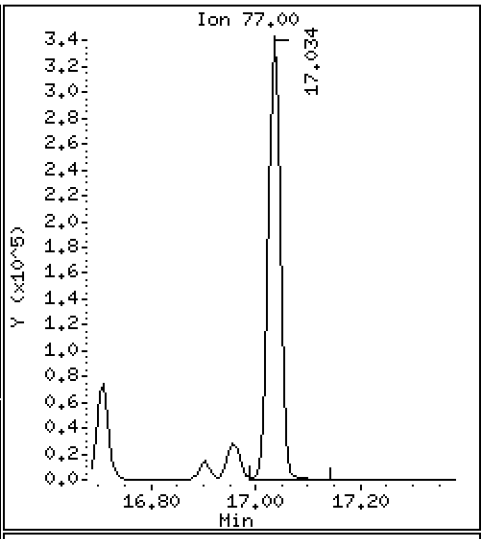
Column phase: ZB-5msi

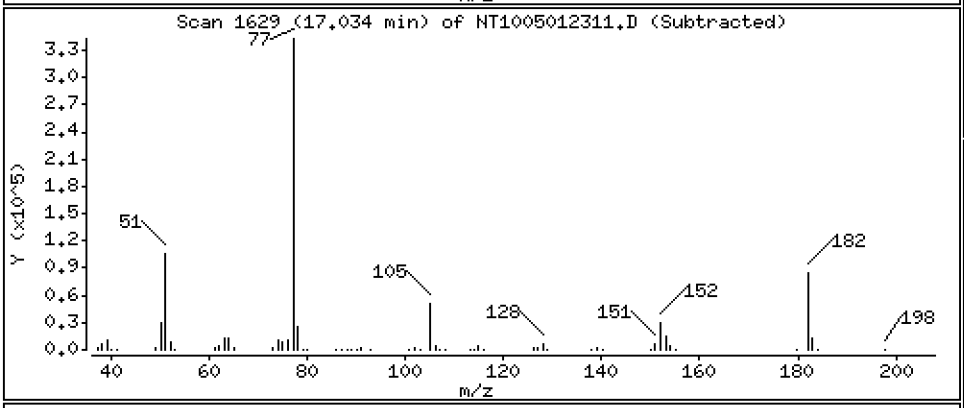
Column diameter: 0.25

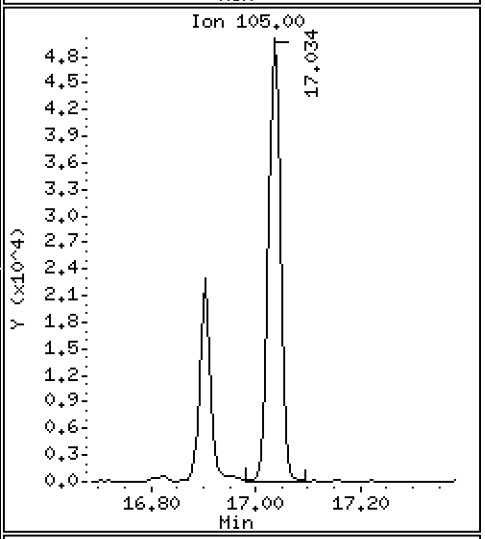
111 Azobenzene (1,2-DP-Hydrazine)

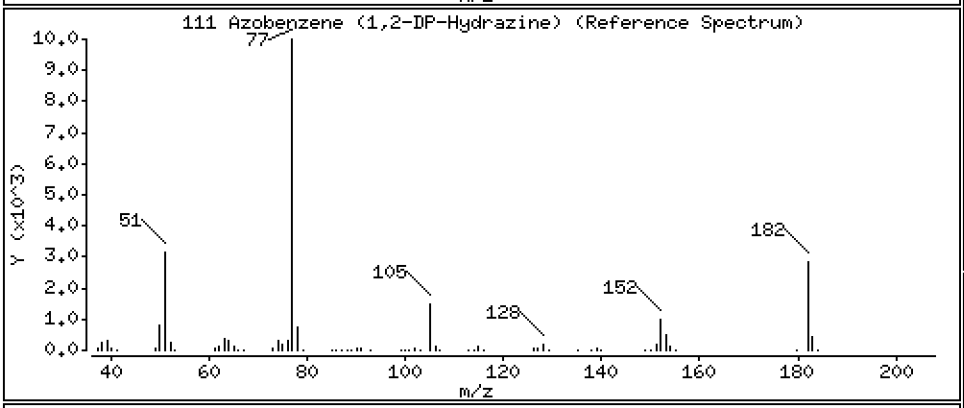
Concentration: 5.141 ug/mL

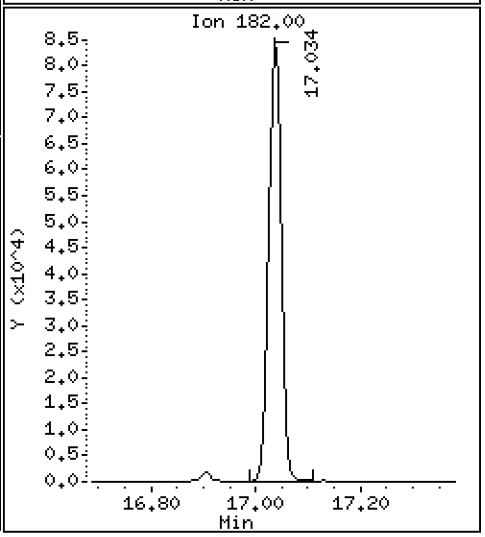


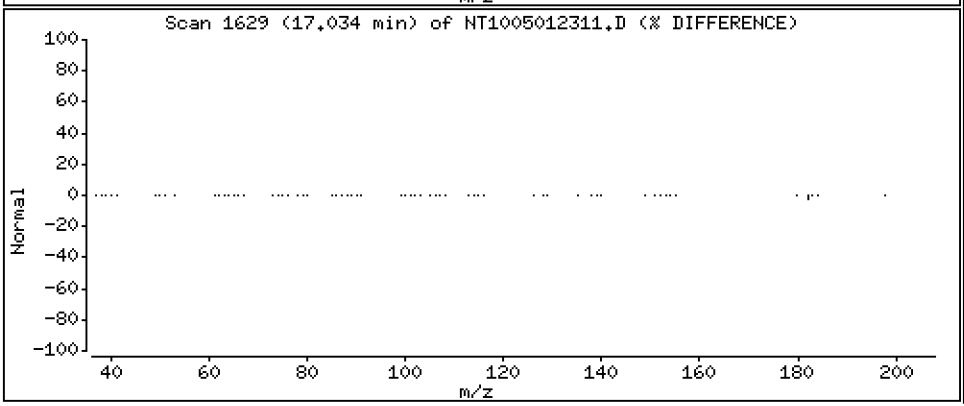












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

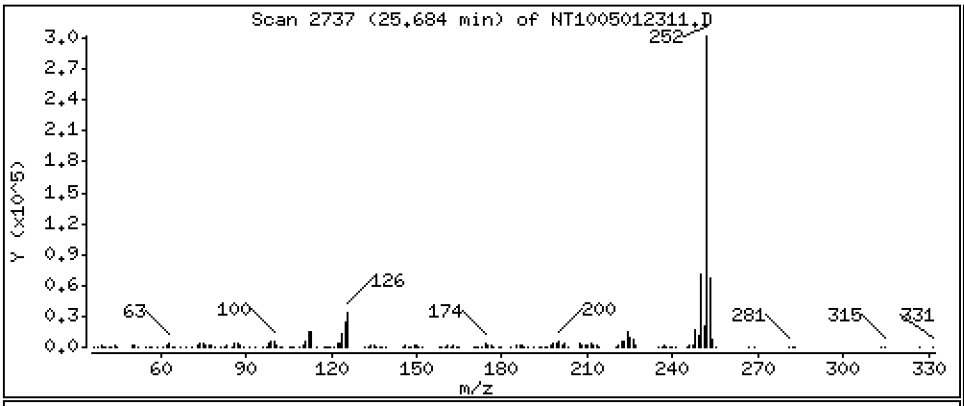
Operator: VTS

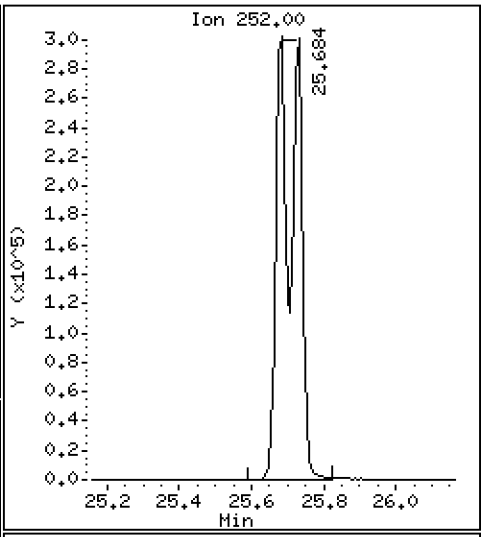
Column phase: ZB-5msi

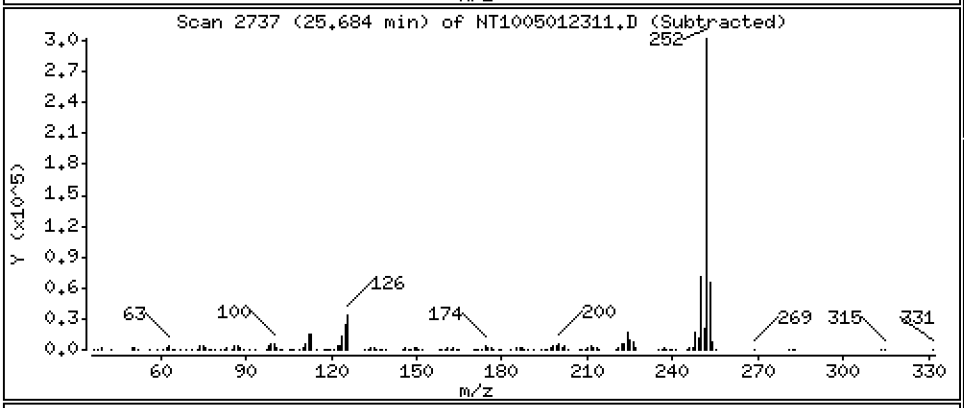
Column diameter: 0.25

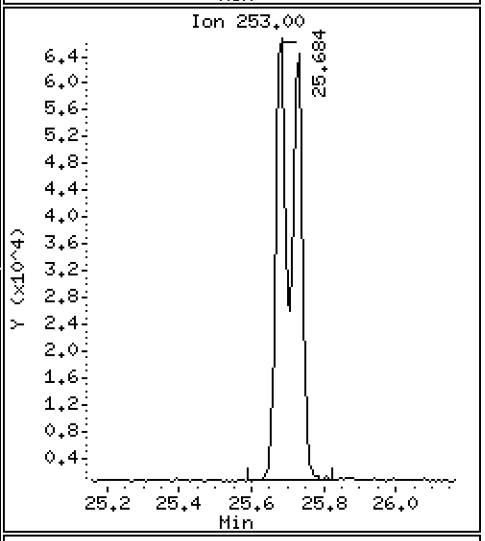
187 Total Benzofluoranthenes

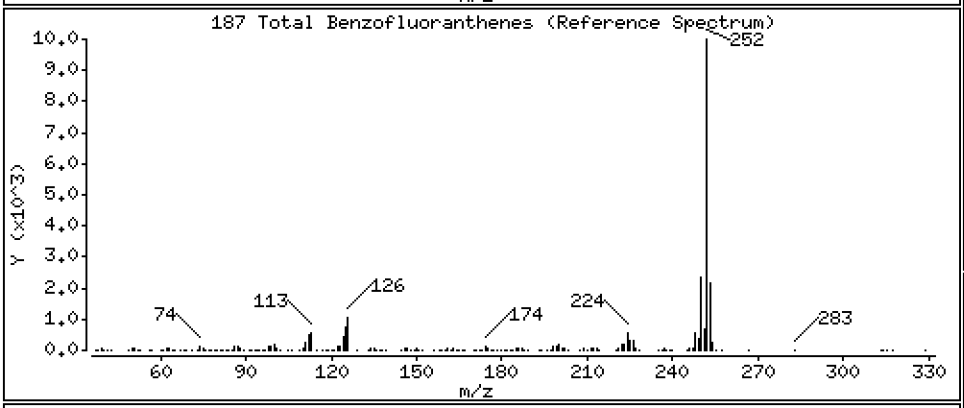
Concentration: 9.184 ug/mL

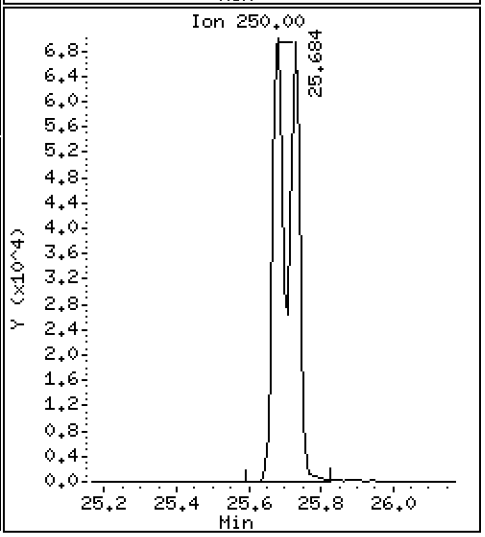


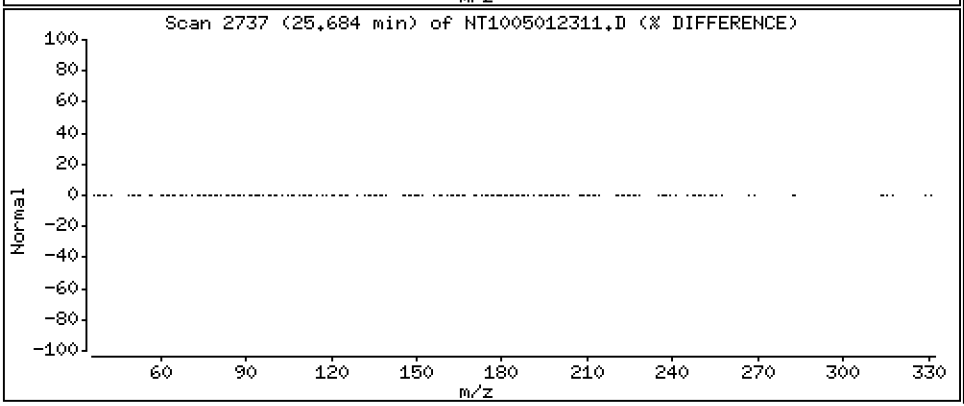












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

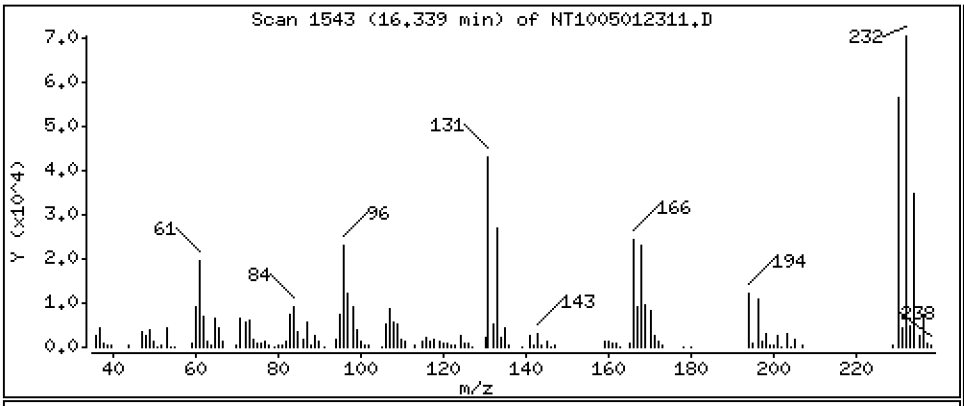
Operator: VTS

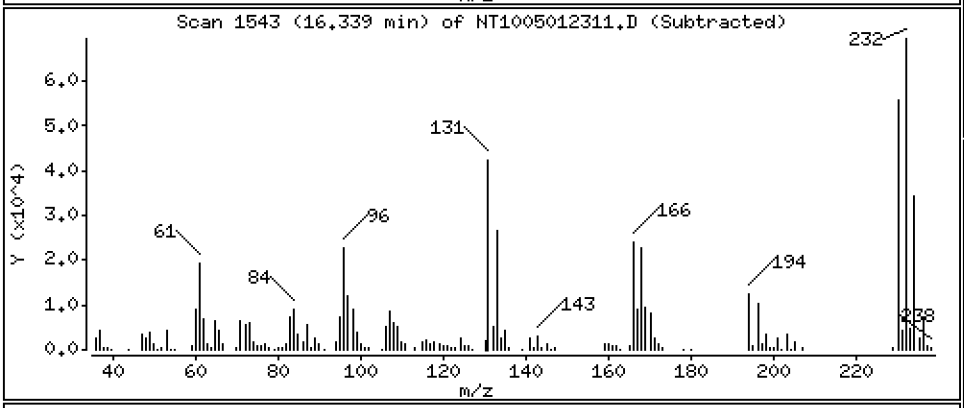
Column phase: ZB-5msi

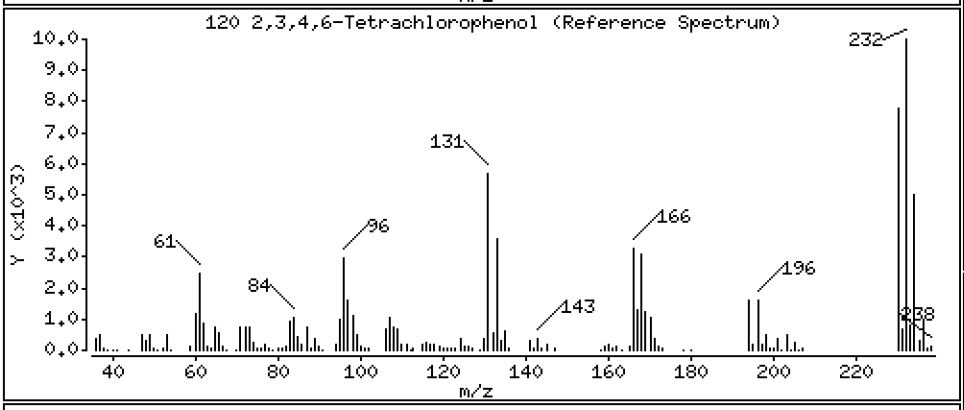
Column diameter: 0.25

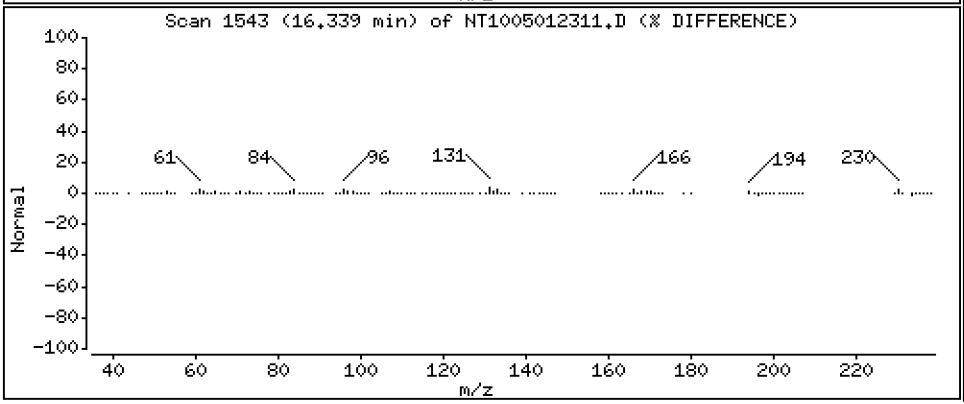
120 2,3,4,6-Tetrachlorophenol

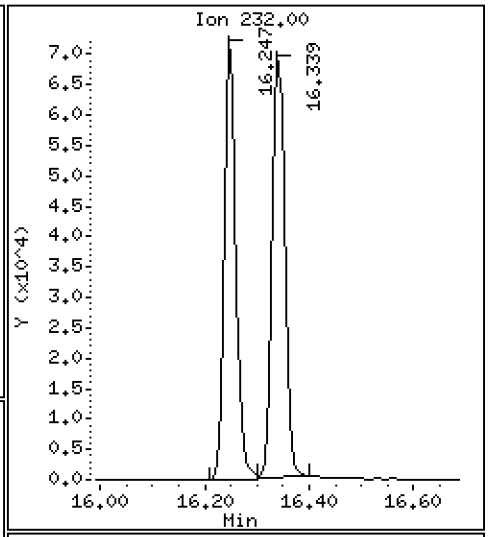
Concentration: 3.691 ug/mL

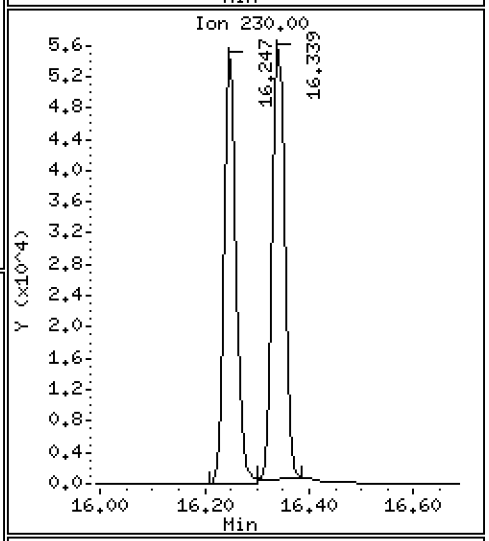


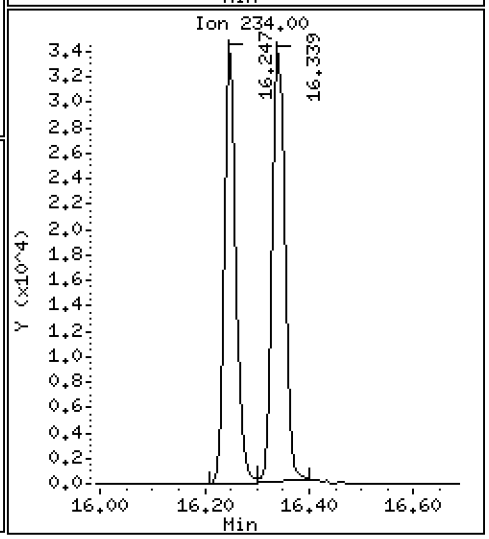












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Inj Date : 01-MAY-2023 20:43
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 02-May-2023 15:27 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	Compound Not Detected.						
$	2 Phenol-d5	99	Compound Not Detected.						
	3 Phenol	94	8.837	8.837	(1.000)	225316	4.48333	4.483	
$	5 2-Chlorophenol-d4	132	Compound Not Detected.						
	4 Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	200069	5.50170	5.502	
	6 2-Chlorophenol	128	9.146	9.146	(1.000)	197459	4.45581	4.456	
	7 1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	246622	4.93946	4.939	
*	8 1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	128837	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	269341	5.49159	5.492	
$	10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
	12 1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	235118	4.93763	4.938	
	11 Benzyl alcohol	108	9.751	9.750	(1.000)	122452	5.06918	5.069	
	14 2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.000)	77053	5.60278	5.603	
	13 2-Methylphenol	108	9.960	9.960	(1.000)	156011	4.23248	4.232	
	17 Hexachloroethane	117	10.473	10.472	(1.000)	111876	5.27548	5.275	
	16 N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	157237	5.38567	5.386	
	15 4-Methylphenol	108	10.232	10.232	(1.000)	196502	4.44066	4.441	
$	18 Nitrobenzene-d5	82	Compound Not Detected.						
	19 Nitrobenzene	77	10.628	10.628	(0.886)	251823	4.97032	4.970	
	20 Isophorone	82	11.070	11.062	(0.923)	475152	7.87757	7.878	
	21 2-Nitrophenol	139	11.257	11.249	(0.939)	104749	3.89627	3.896	
	22 2,4-Dimethylphenol	107	11.283	11.283	(0.941)	169403	3.42401	3.424	
	23 Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.958)	221150	5.73564	5.736	
	24 Benzoic acid	105	11.427	11.359	(0.953)	253834	7.38578	7.386	
	25 2,4-Dichlorophenol	162	11.699	11.698	(0.976)	174106	4.47956	4.480	
	26 1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	243710	4.37789	4.378	
*	27 Naphthalene-d8	136	11.991	11.983	(1.000)	469135	4.00000		
	28 Naphthalene	128	12.030	12.022	(1.003)	620670	4.74201	4.742	
	29 4-Chloroaniline	127	12.145	12.145	(1.013)	190542	3.95611	3.956	
	30 Hexachlorobutadiene	225	12.385	12.377	(1.033)	142010	4.62571	4.626	
	31 4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	188904	4.45976	4.460	
	32 2-Methylnaphthalene	142	13.422	13.422	(1.119)	441670	4.51323	4.513	
	33 Hexachlorocyclopentadiene	237	13.886	13.886	(0.889)	151577	4.67268	4.673	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	134602	4.21230	4.212
35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	140409	4.02943	4.029
$ 36	2-Fluorobiphenyl	172	14.204	14.203	(0.909)	2537	0.02246	0.02246
37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	429636	4.83017	4.830
38	2-Nitroaniline	65	14.676	14.676	(0.940)	129919	5.02932	5.029
39	Dimethylphthalate	163	15.101	15.101	(0.967)	490864	4.90763	4.908
40	Acenaphthylene	152	15.303	15.303	(0.980)	663079	4.77574	4.776
41	2,6-Dinitrotoluene	165	15.249	15.248	(0.976)	110074	4.87568	4.876
* 42	Acenaphthene-d10	164	15.620	15.612	(1.000)	260867	4.00000	
43	3-Nitroaniline	138	15.535	15.527	(0.995)	106140	4.77608	4.776
44	Acenaphthene	153	15.682	15.682	(1.004)	416452	4.71606	4.716
45	2,4-Dinitrophenol	184	15.744	15.743	(1.008)	41326	2.37611	2.376
46	Dibenzofuran	168	16.006	16.006	(1.025)	598046	4.64493	4.645
47	4-Nitrophenol	109	15.829	15.828	(1.013)	82973	3.99163	3.992
48	2,4-Dinitrotoluene	165	16.061	16.060	(1.028)	141639	4.38106	4.381
50	Diethylphthalate	149	16.563	16.555	(1.060)	524953	5.05491	5.055
49	Fluorene	166	16.733	16.725	(1.071)	484223	4.55893	4.559
51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	253695	4.79663	4.797
52	4-Nitroaniline	138	16.810	16.810	(1.076)	93244	4.29306	4.293
53	4,6-Dinitro-2-methylphenol	198	16.903	16.902	(0.905)	70705	3.75964	3.760
54	N-Nitrosodiphenylamine	169	16.957	16.956	(0.908)	324810	5.12520	5.125
$ 55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	177	0.01417	0.01417
56	4-Bromophenyl-phenylether	248	17.720	17.712	(0.949)	147865	4.94237	4.942
57	Hexachlorobenzene	284	18.044	18.044	(0.966)	140819	4.68942	4.689
58	Pentachlorophenol	266	18.401	18.393	(0.985)	80436	3.86584	3.866
* 59	Phenanthrene-d10	188	18.671	18.671	(1.000)	479585	4.00000	
60	Phenanthrene	178	18.718	18.718	(1.002)	645346	4.58600	4.586
61	Anthracene	178	18.818	18.811	(1.008)	542159	4.16924	4.169
62	Carbazole	167	19.136	19.136	(1.025)	518357	4.50323	4.503
63	Di-n-butylphthalate	149	19.902	19.901	(1.066)	862725	4.89550	4.895
64	Fluoranthene	202	21.085	21.085	(0.890)	774676	4.73795	4.738
65	Pyrene	202	21.511	21.503	(0.908)	757130	4.63549	4.635
$ 66	Terphenyl-d14	244	21.782	21.774	(0.919)	2912	0.02254	0.02254
67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	349577	4.77781	4.778
68	Benzo(a)anthracene	228	23.663	23.655	(0.999)	683788	4.71653	4.717
* 69	Chrysene-d12	240	23.694	23.686	(1.000)	366214	4.00000	
70	3,3'-Dichlorobenzidine	252	23.617	23.601	(0.997)	467557	10.2140	10.21
71	Chrysene	228	23.741	23.733	(1.002)	589116	4.54006	4.540
72	bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	493652	5.40606	5.406
* 134	Di-n-octylphthalate-d4	153	24.739	24.724	(1.000)	633915	4.00000	
73	Di-n-octylphthalate	149	24.747	24.739	(1.000)	863084	5.16068	5.161
74	Benzo(b)fluoranthene	252	25.684	25.660	(0.968)	641646	4.78532	4.785
75	Benzo(k)fluoranthene	252	25.730	25.715	(0.970)	593022	4.45695	4.457
76	Benzo(a)pyrene	252	26.404	26.388	(0.995)	537284	4.78725	4.787
* 77	Perylene-d12	264	26.536	26.520	(1.000)	326407	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.514	29.483	(1.112)	630589	4.67700	4.677
79	Dibenzo(a,h)anthracene	278	29.522	29.491	(1.113)	524960	4.64906	4.649
80	Benzo(g,h,i)perylene	276	30.392	30.353	(1.145)	500646	4.65862	4.659
90	N-Nitrosodimethylamine	74	5.067	5.083	(1.000)	109300	5.19047	5.190
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.310	21.310	(0.899)	165444	2.80075	2.801
103	Pyridine	79	5.098	5.144	(1.000)	176959	5.32922	5.329
105	1-methylnaphthalene	142	13.646	13.646	(1.138)	433828	4.83538	4.835
111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	521542	5.14057	5.141

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.684	25.660	(0.968)	1185382	9.18410	9.184
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.339	(1.046)	111498	3.69091	3.691

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	128837	-10.72
27 Naphthalene-d8	493698	246849	987396	469135	-4.98
42 Acenaphthene-d10	279210	139605	558420	260867	-6.57
59 Phenanthrene-d10	521463	260732	1042926	479585	-8.03
69 Chrysene-d12	369911	184956	739822	366214	-1.00
134 Di-n-octylphthala	626668	313334	1253336	633915	1.16
77 Perylene-d12	311339	155670	622678	326407	4.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.74	-0.03
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012311.D

Lab ID: SLE0036-SCV1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.059	-0.0589	2,2'-oxybis(1-Chloropropane)
0.953	0.948	0.0050	Benzoic acid

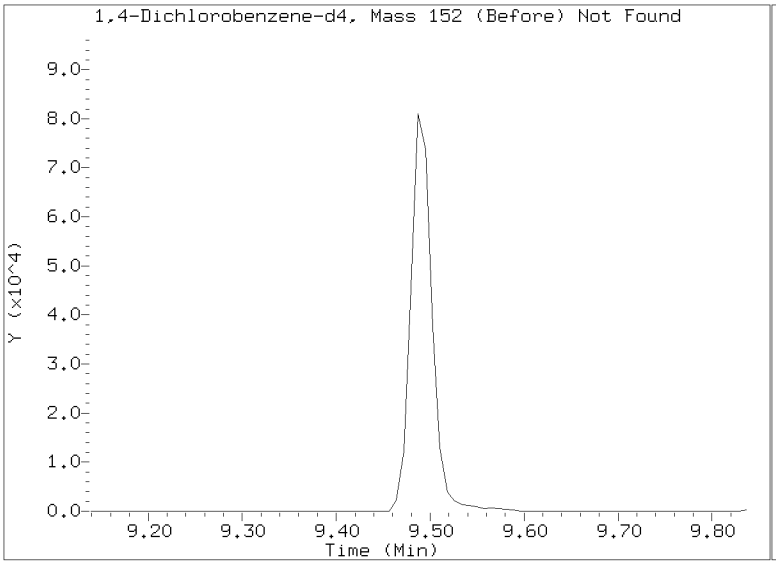
RRT check based on Ccal File: NT1005012308.D

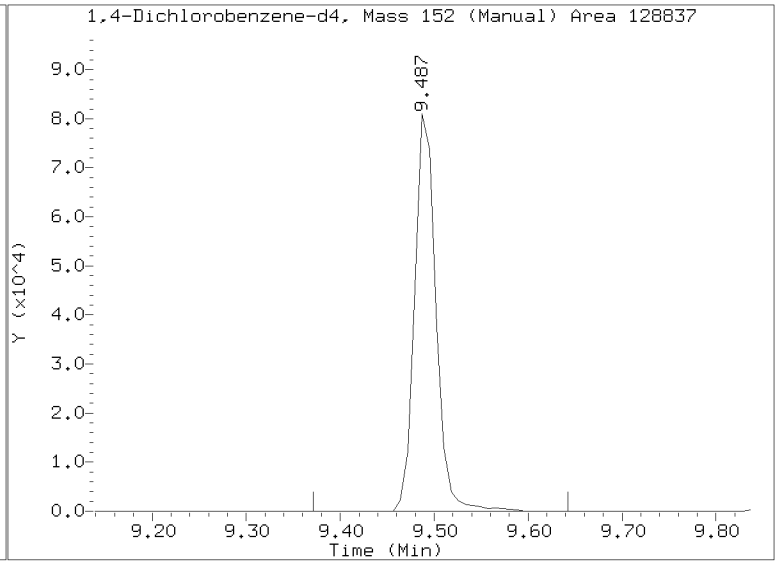
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012311.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0036-SCV1 Client ID:
Report Date: 05/02/2023 15:38





APPROVED

By Deenay Dunmore at 2:15 pm, May 03, 2023

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00012
Laboratory ID: SLE0101-LCV1
Sequence: SLE0101
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.4	-13.1	50.00
4-Methylphenol	0.50000	0.4	-16.8	50.00
Naphthalene	0.50000	0.5	-8.6	50.00
2-Methylnaphthalene	0.50000	0.4	-13.4	50.00
Acenaphthylene	0.50000	0.4	-11.6	50.00
Dimethylphthalate	0.50000	0.4	-12.5	50.00
Acenaphthene	0.50000	0.4	-10.1	50.00
Dibenzofuran	0.50000	0.4	-10.6	50.00
Fluorene	0.50000	0.4	-10.9	50.00
Phenanthrene	0.50000	0.4	-12.1	50.00
Anthracene	0.50000	0.4	-20.7	50.00
Fluoranthene	0.50000	0.4	-23.5	50.00
Pyrene	0.50000	0.4	-20.5	50.00
Butylbenzylphthalate	0.50000	0.3	-47.9	50.00
Benzo(a)anthracene	0.50000	0.4	-13.2	50.00
Chrysene	0.50000	0.5	-9.9	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.4	-23.5	50.00
Benzofluoranthenes, Total	1.0000	0.8	-19.5	50.00
Benzo(a)pyrene	0.50000	0.4	-23.4	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.4	-23.9	50.00
Dibenzo(a,h)anthracene	0.50000	0.4	-21.3	50.00
Benzo(g,h,i)perylene	0.50000	0.4	-21.0	50.00
2-Fluorophenol	0.75000	0.588	-21.6	50.00
Phenol-d5	0.75000	0.591	-21.2	50.00
2-Chlorophenol-d4	0.75000	0.587	-21.8	50.00
1,2-Dichlorobenzene-d4	0.50000	0.423	-15.4	50.00
Nitrobenzene-d5	0.50000	0.416	-16.9	50.00
2-Fluorobiphenyl	0.50000	0.441	-11.8	50.00
2,4,6-Tribromophenol	0.75000	0.435	-42.0	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00012
Laboratory ID: SLE0101-LCV1
Sequence: SLE0101
Standard ID: K011106

p-Terphenyl-d14	0.50000	0.403	-19.4	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Page 1

Date : 05-MAY-2023 12:43

Client ID:

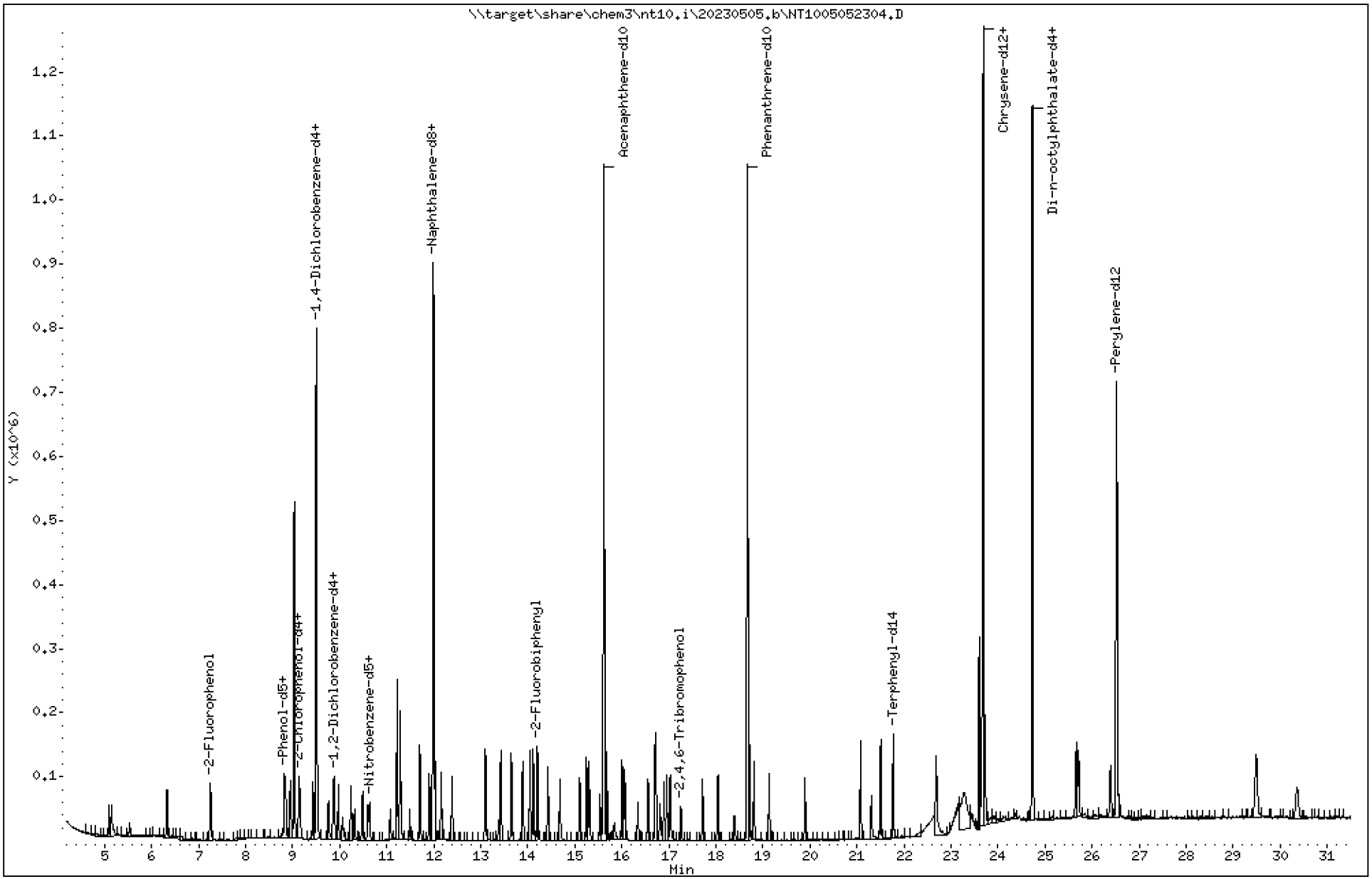
Instrument: nt10.i

Sample Info: SLE0101-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1006 of 4865

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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

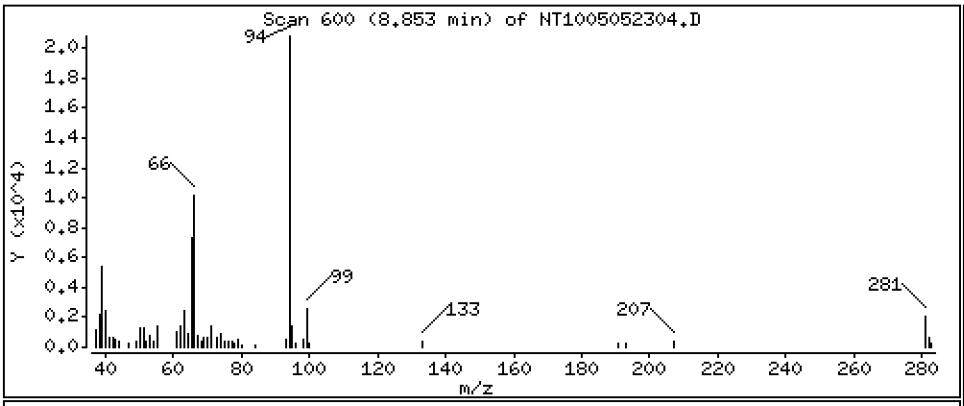
Operator: VTS

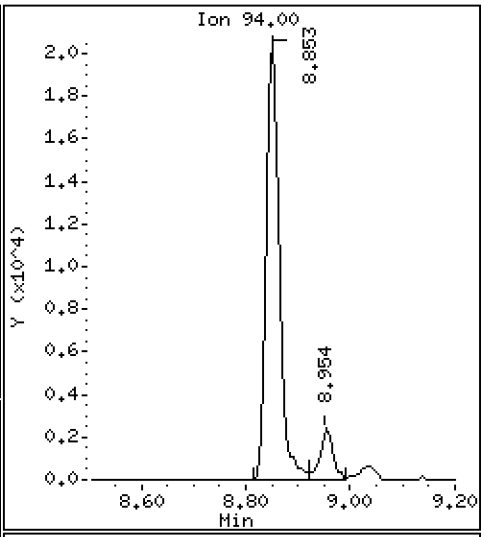
Column phase: ZB-5msi

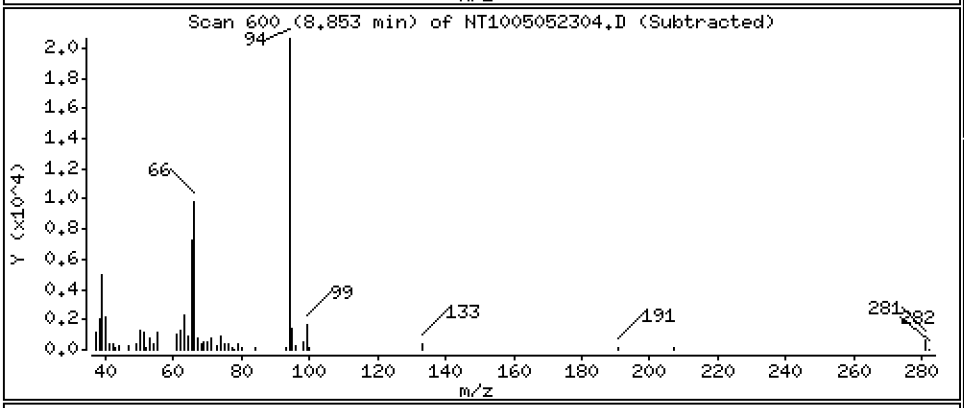
Column diameter: 0.25

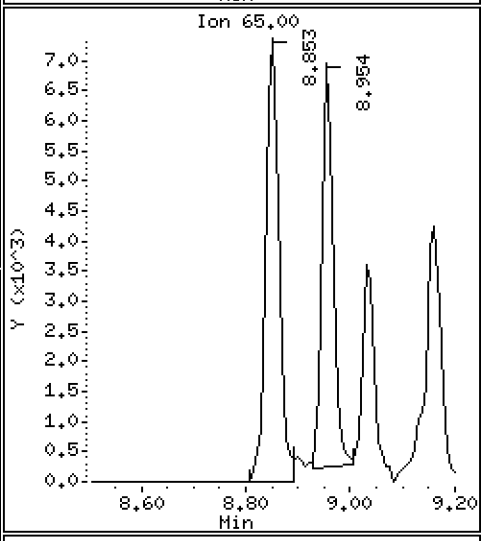
3 Phenol

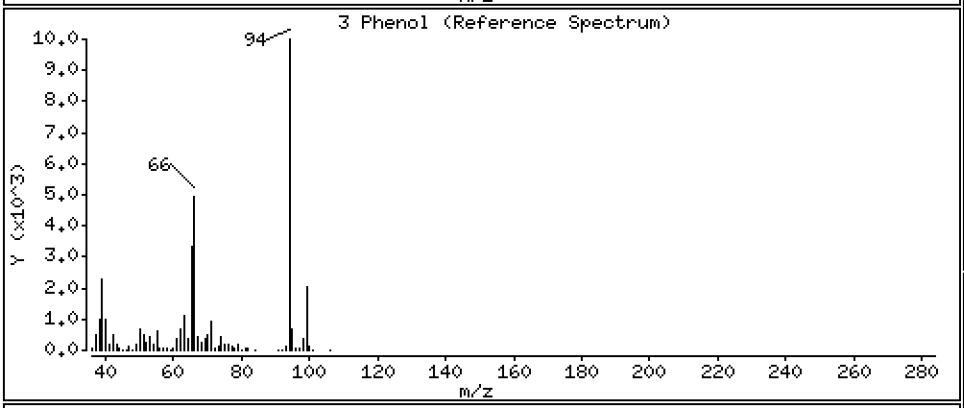
Concentration: 0.4344 ug/mL

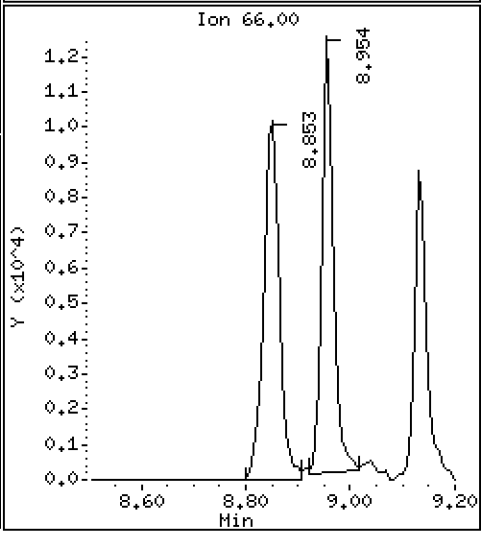


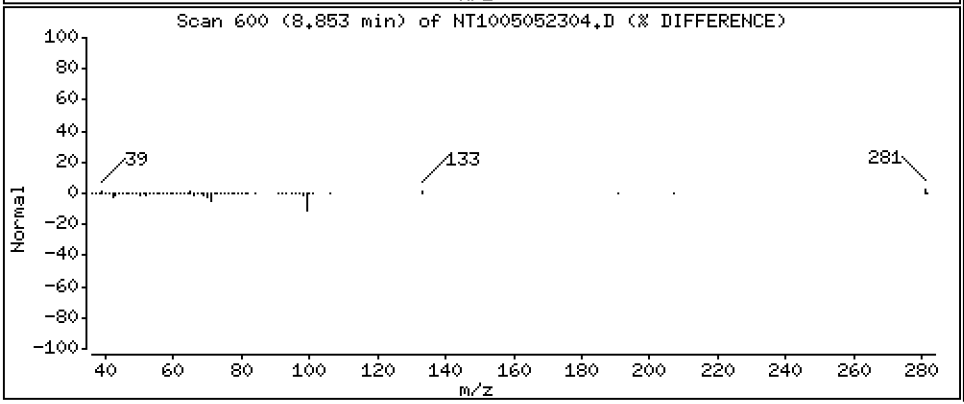












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

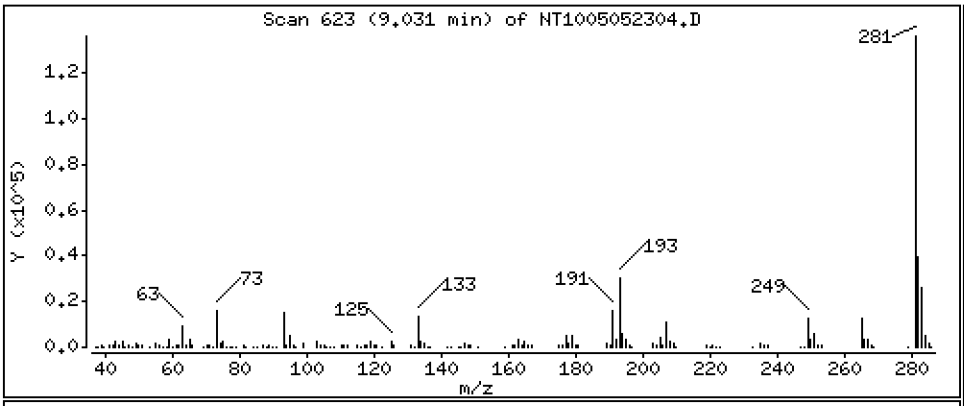
Operator: VTS

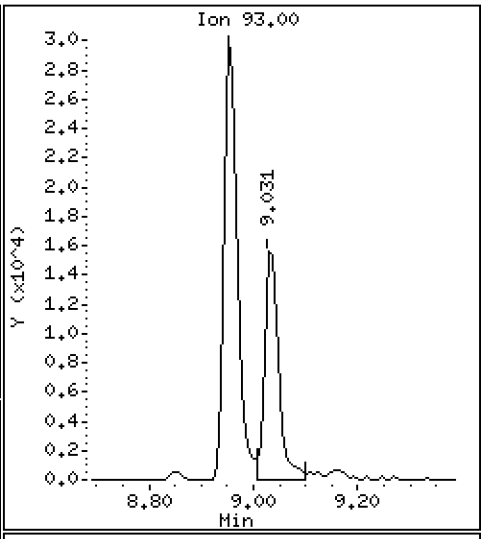
Column phase: ZB-5msi

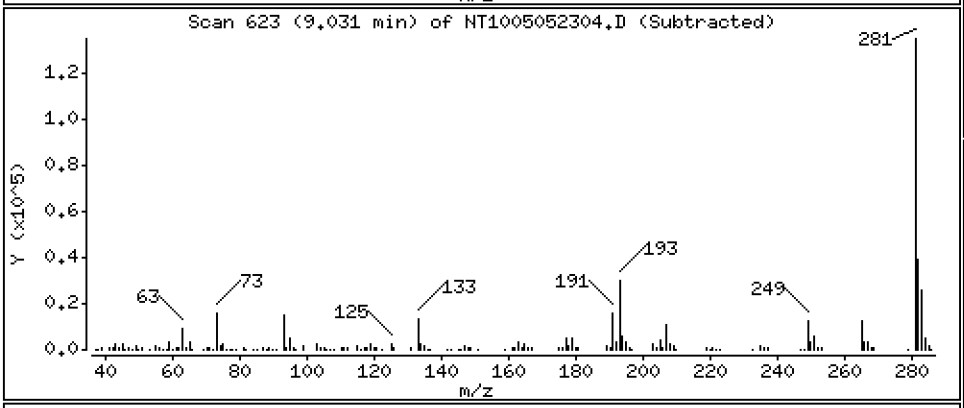
Column diameter: 0.25

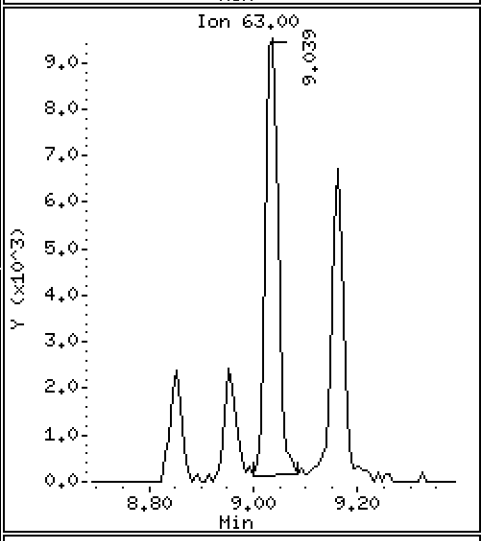
4 Bis(2-Chloroethyl)ether

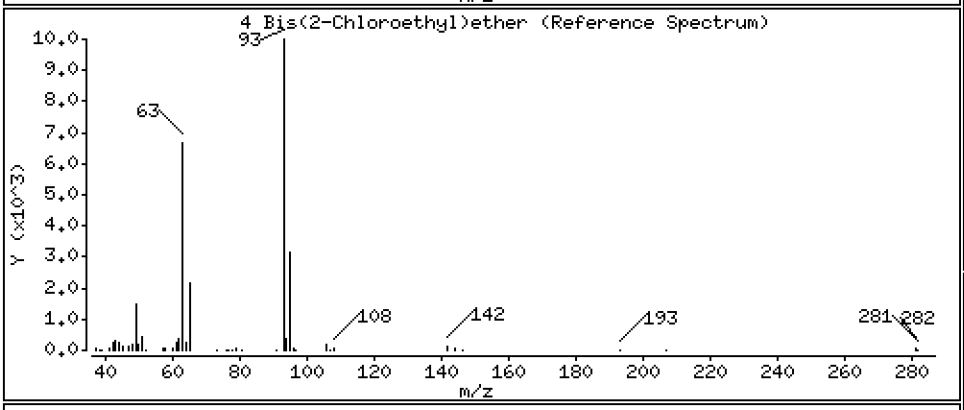
Concentration: 0.4944 ug/mL

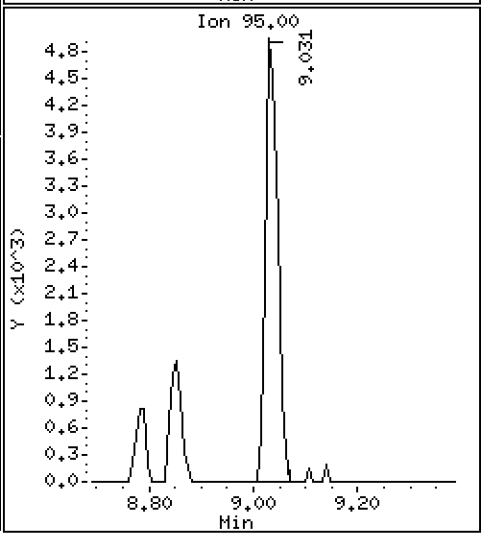


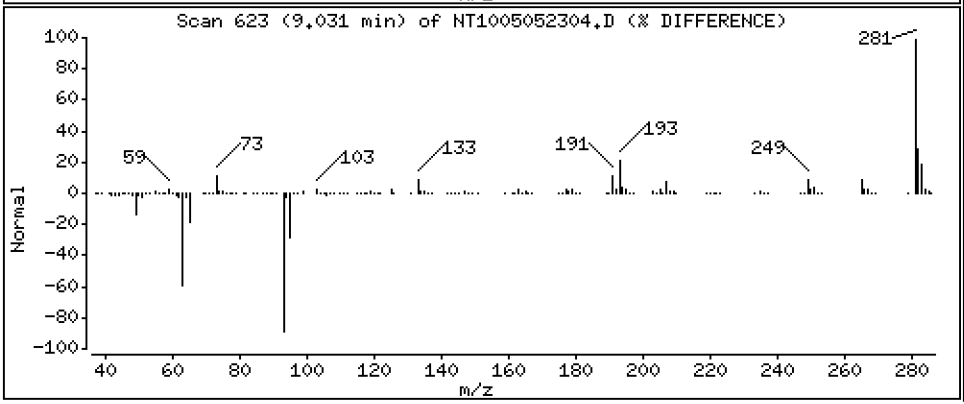












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

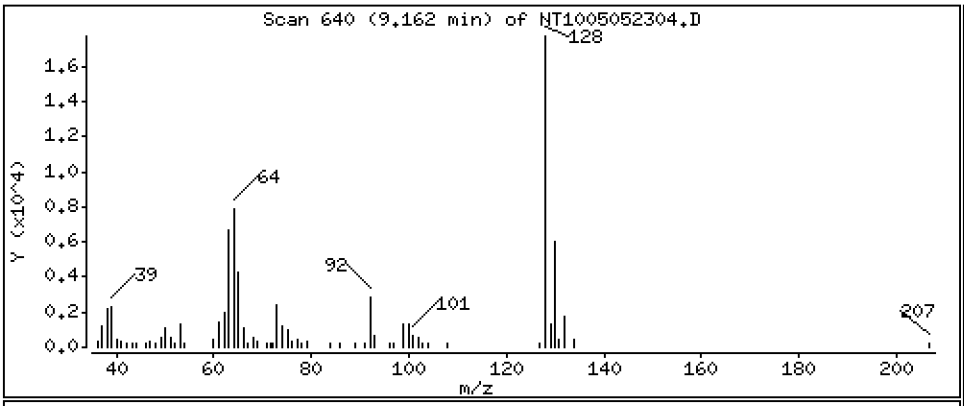
Operator: VTS

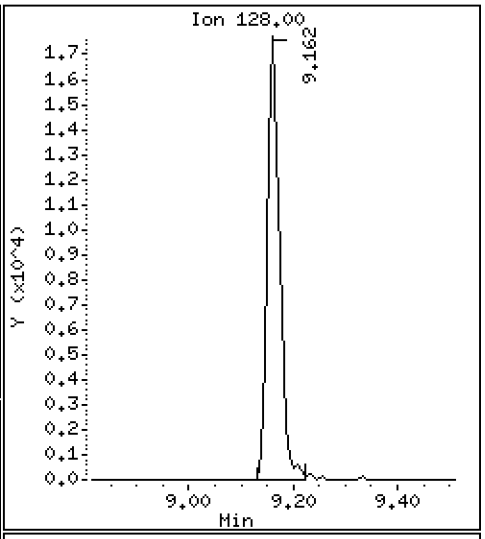
Column phase: ZB-5msi

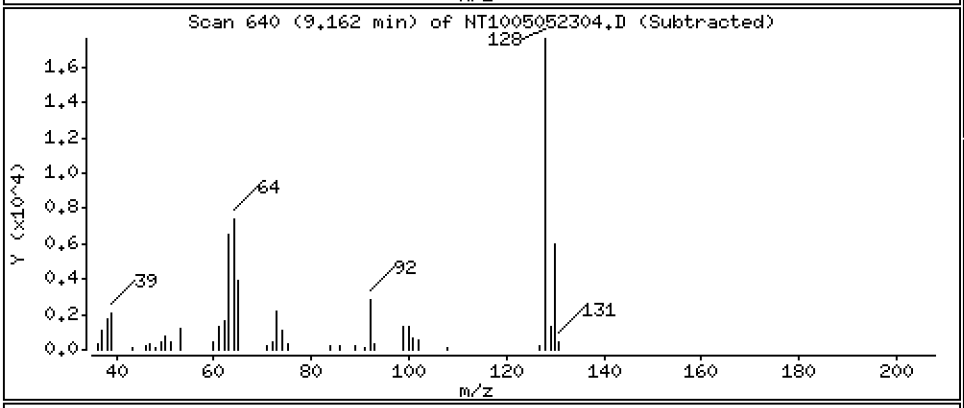
Column diameter: 0.25

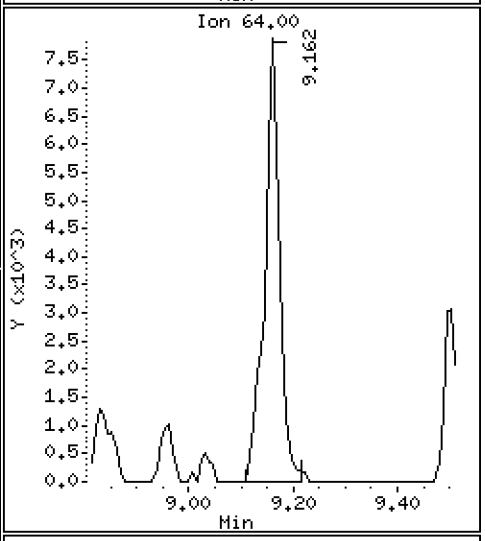
6 2-Chlorophenol

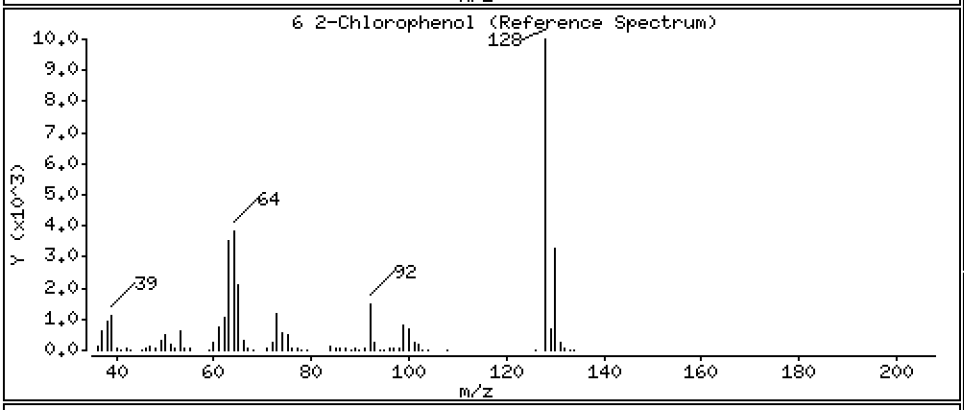
Concentration: 0.4114 ug/mL

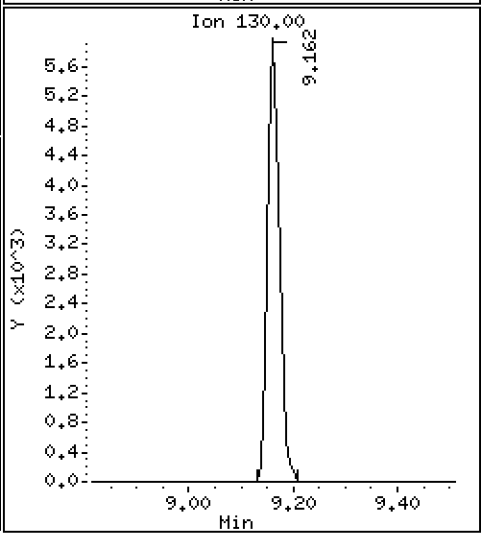


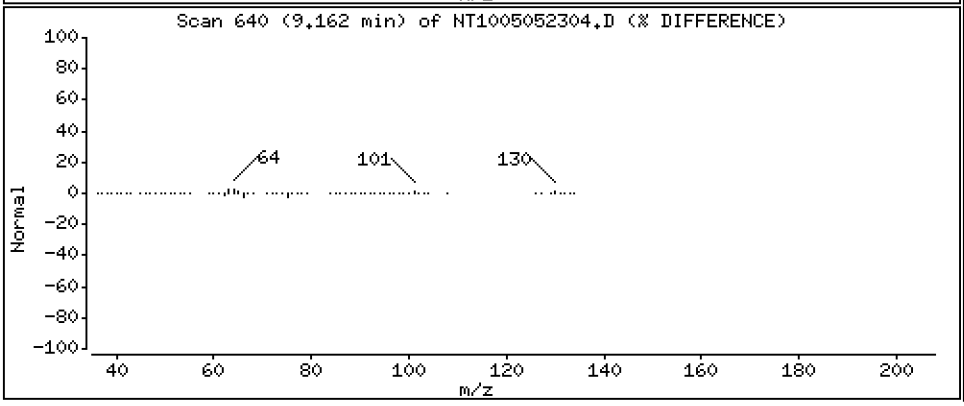












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

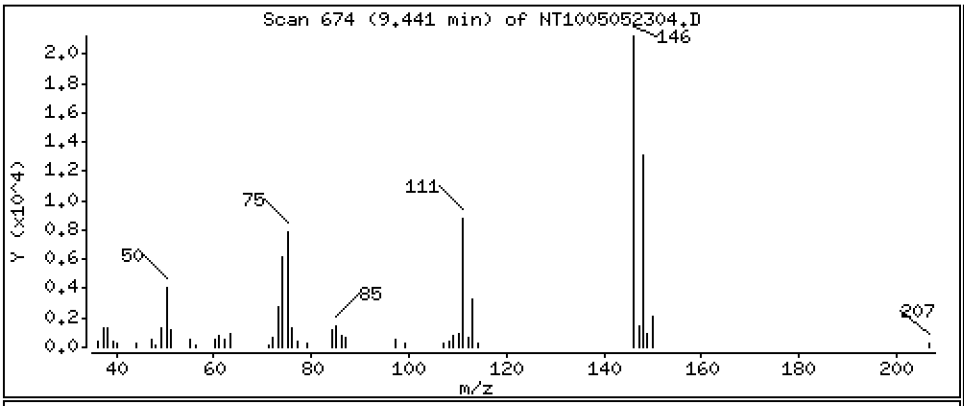
Operator: VTS

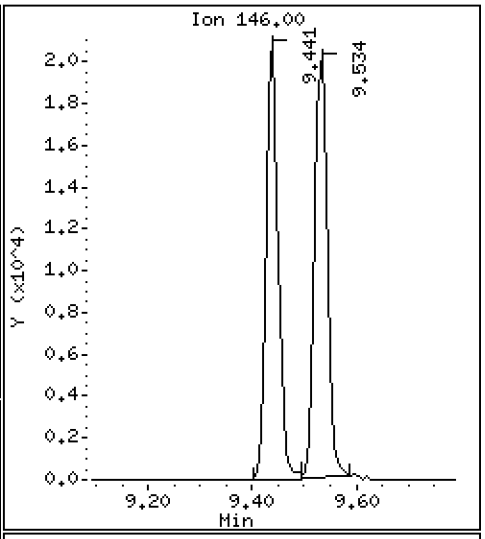
Column phase: ZB-5msi

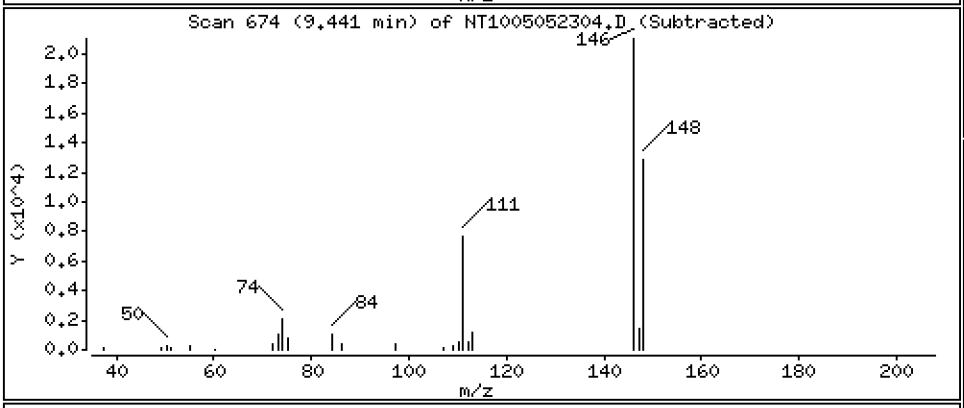
Column diameter: 0.25

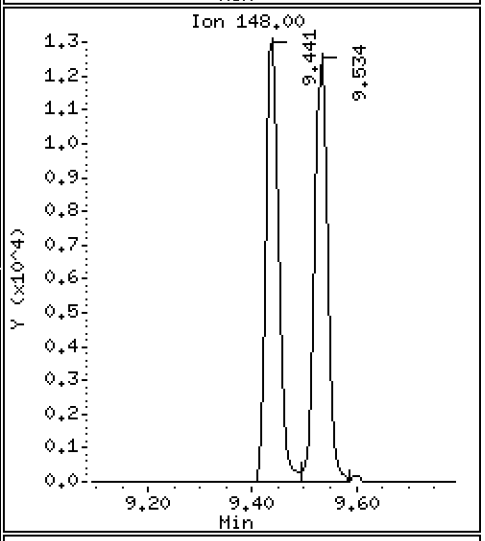
7 1,3-Dichlorobenzene

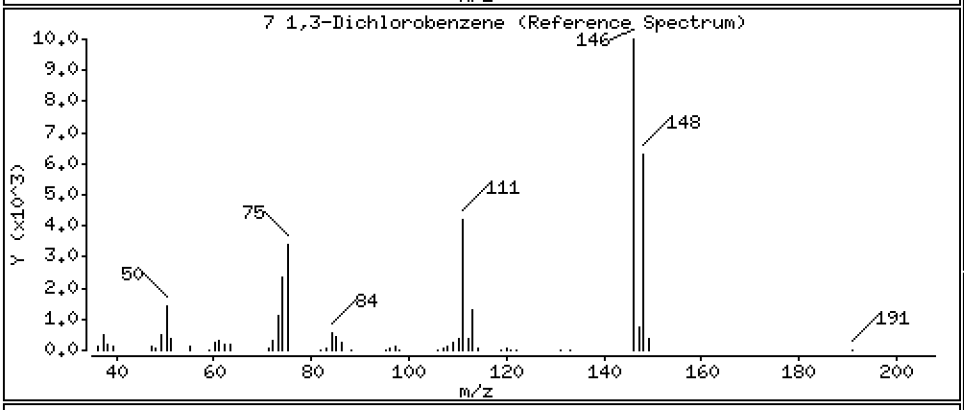
Concentration: 0.4272 ug/mL

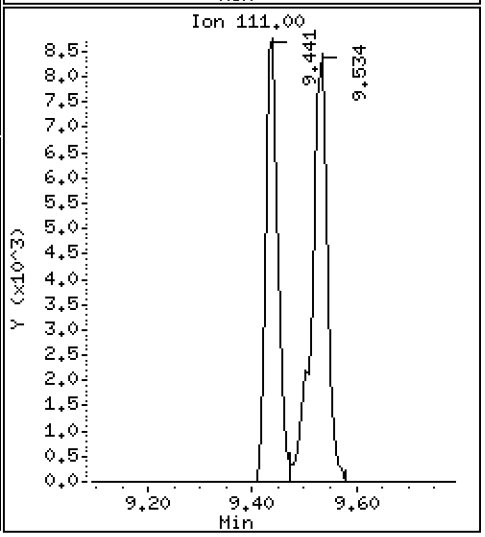


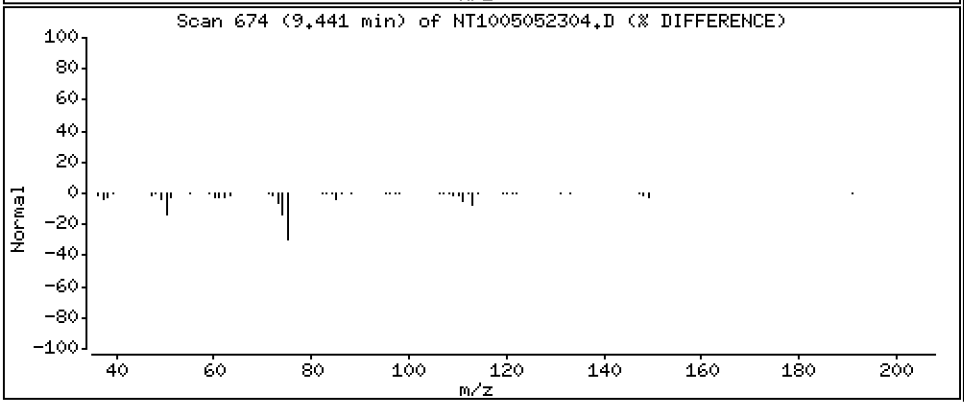












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

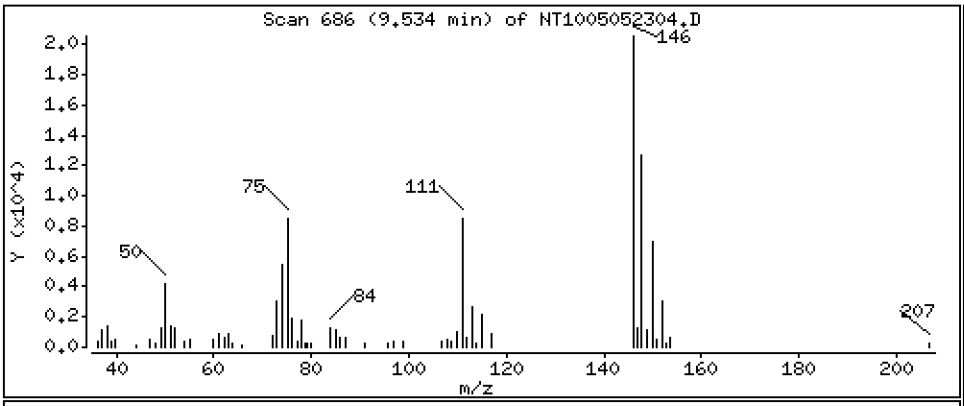
Operator: VTS

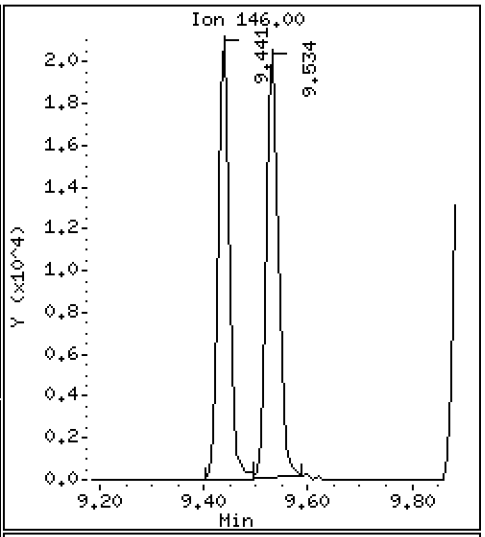
Column phase: ZB-5msi

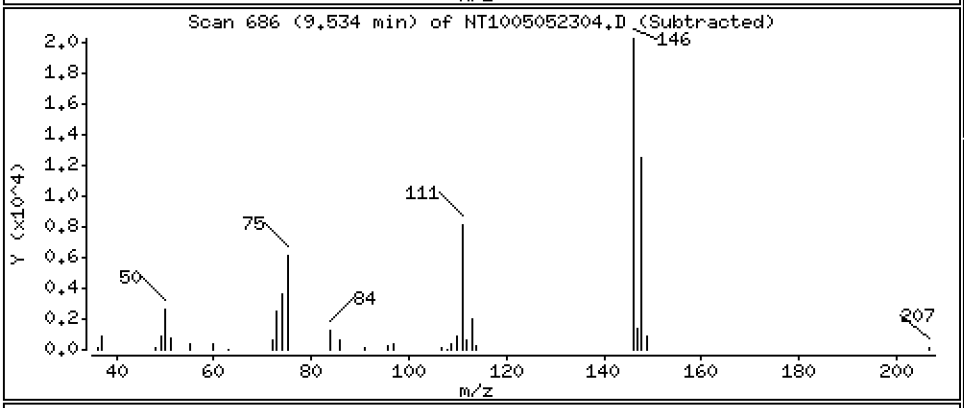
Column diameter: 0.25

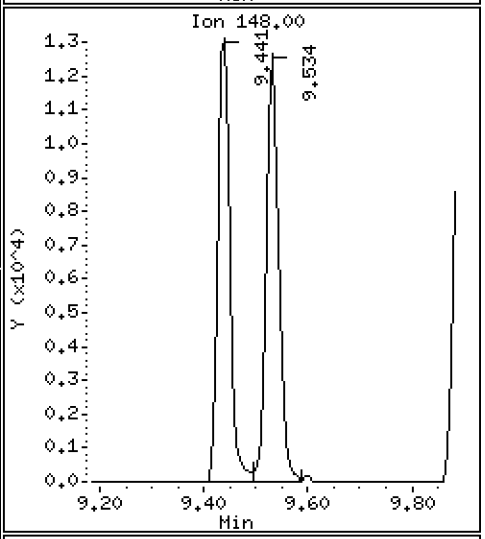
9 1,4-Dichlorobenzene

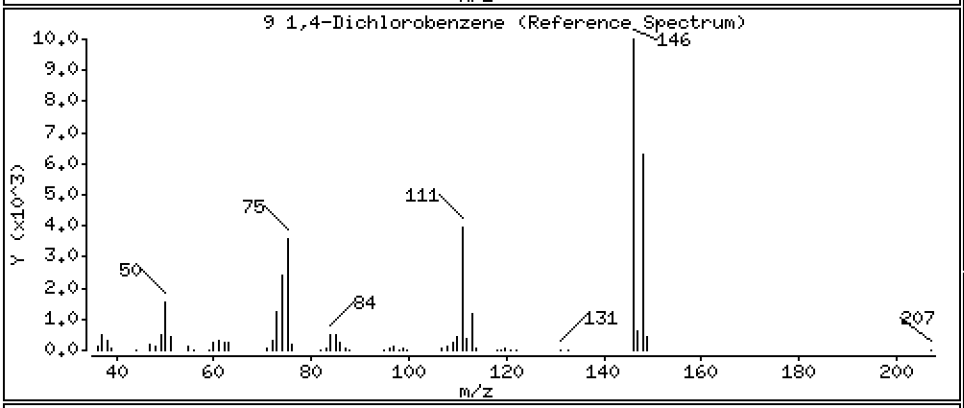
Concentration: 0.4250 ug/mL

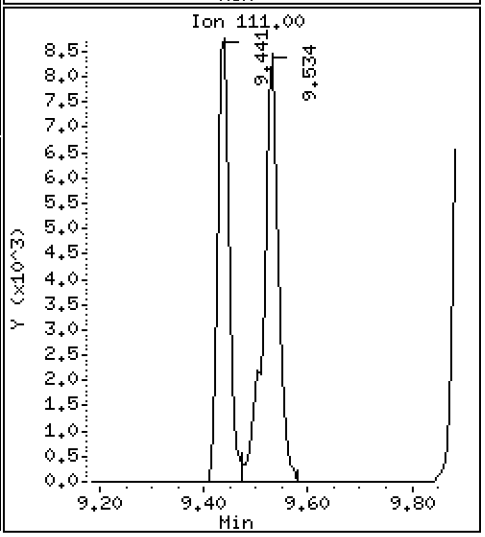


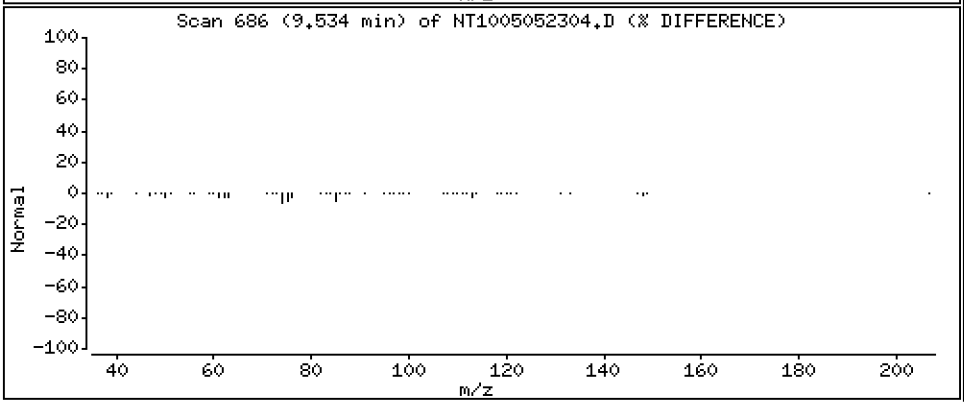












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

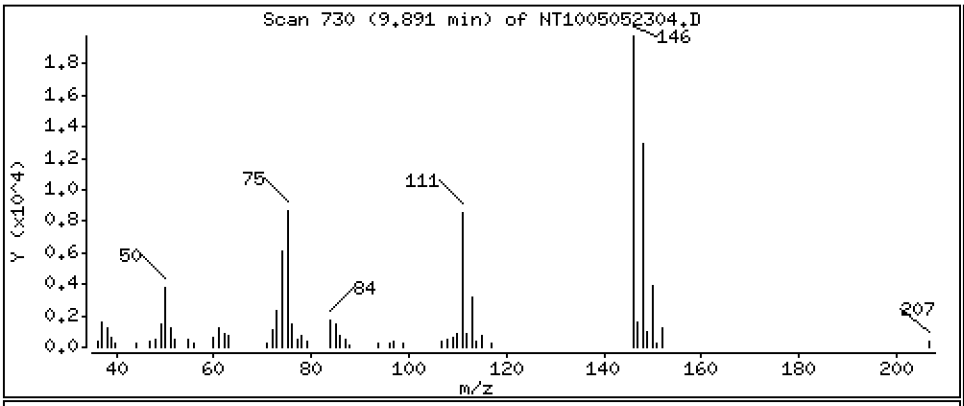
Operator: VTS

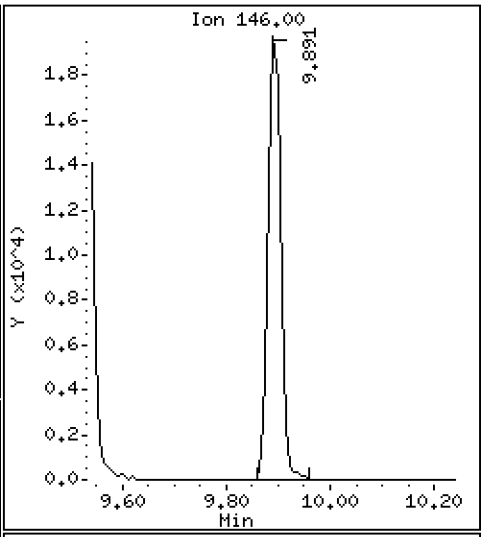
Column phase: ZB-5msi

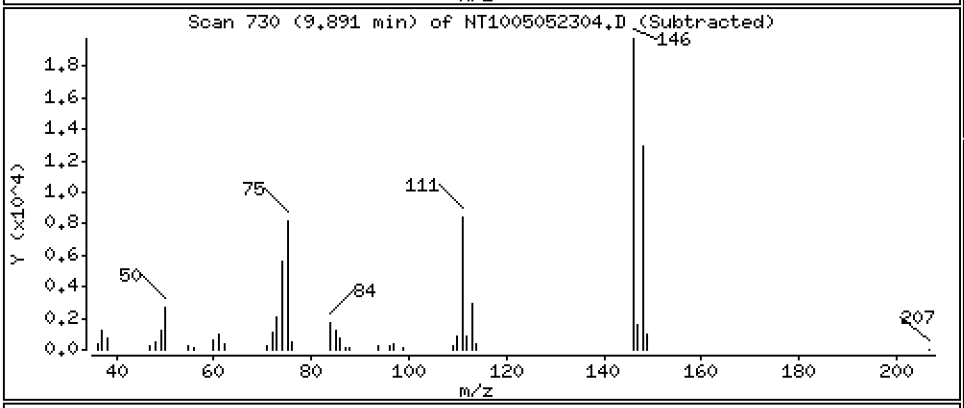
Column diameter: 0.25

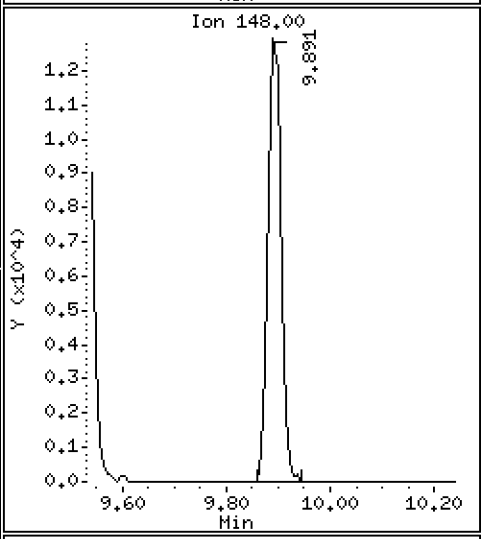
12 1,2-Dichlorobenzene

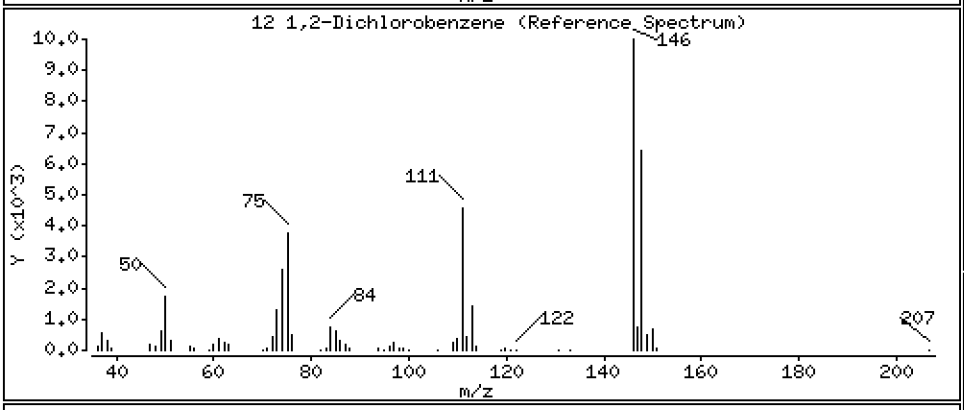
Concentration: 0.4285 ug/mL

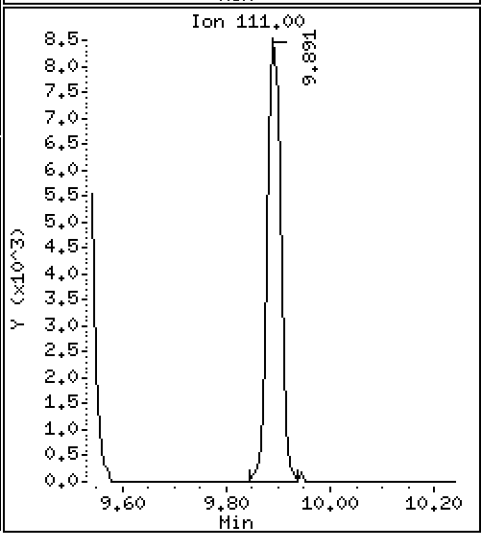


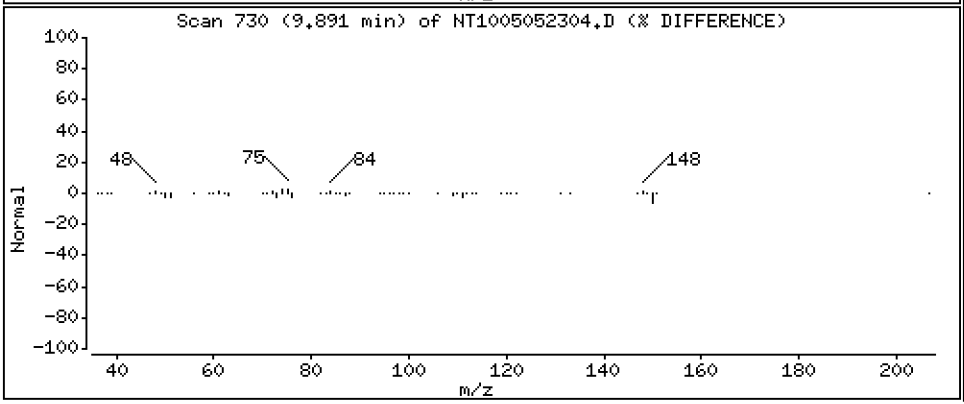












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

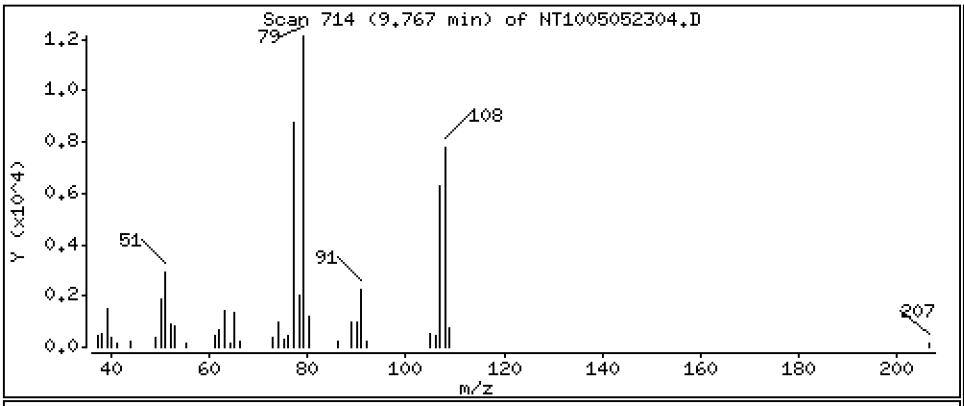
Operator: VTS

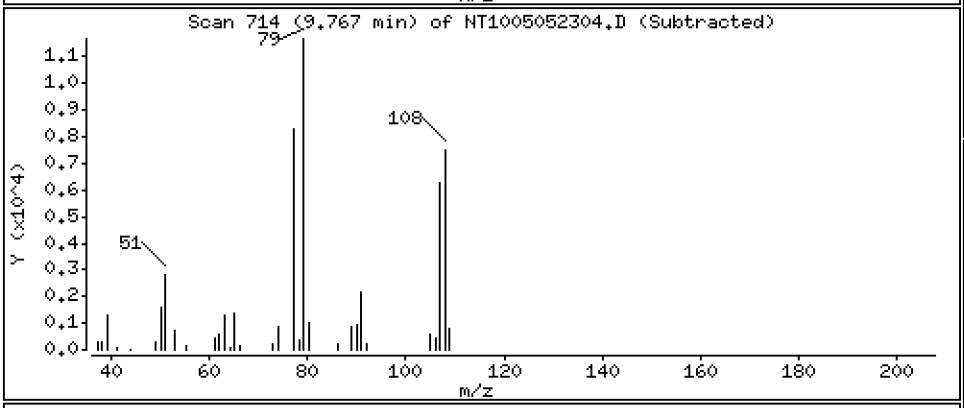
Column phase: ZB-5msi

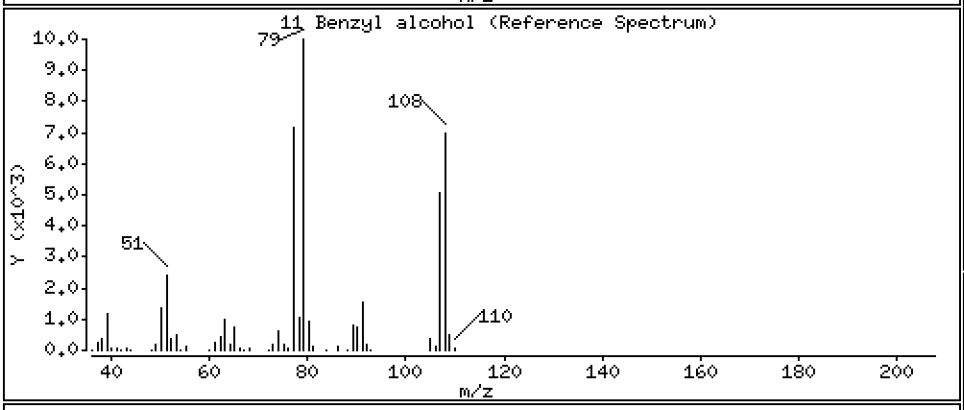
Column diameter: 0.25

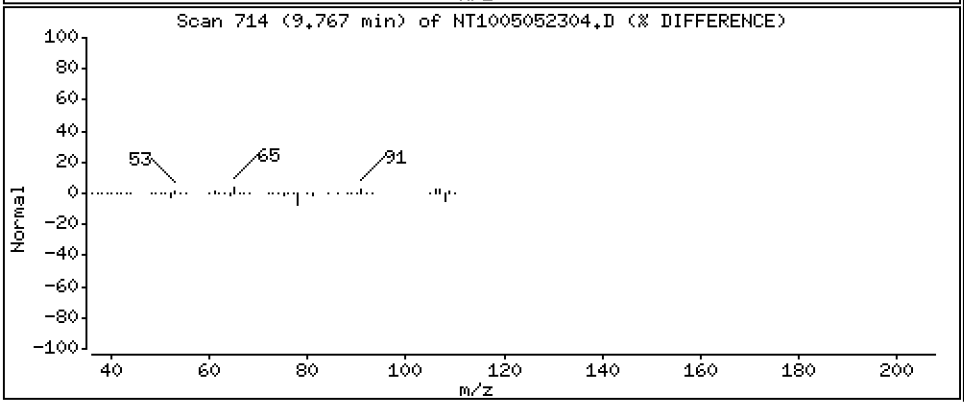
11 Benzyl alcohol

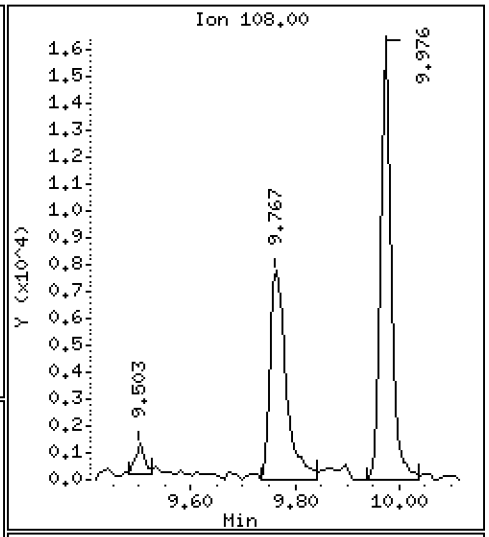
Concentration: 0.4329 ug/mL

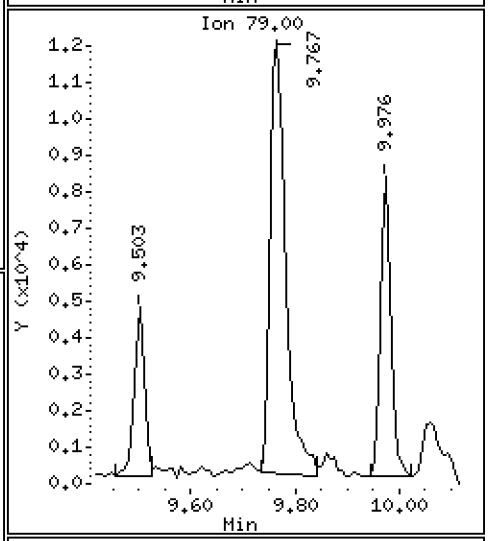


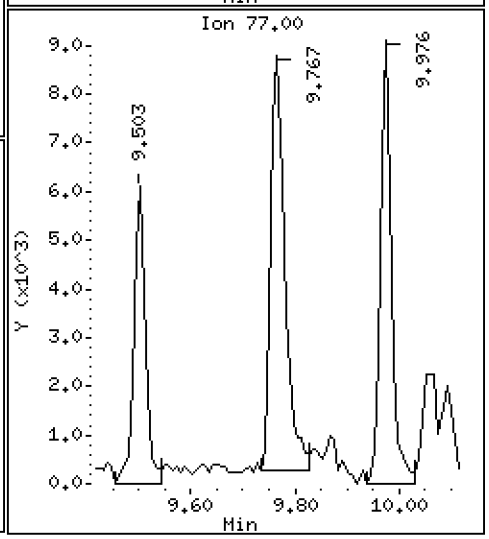












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

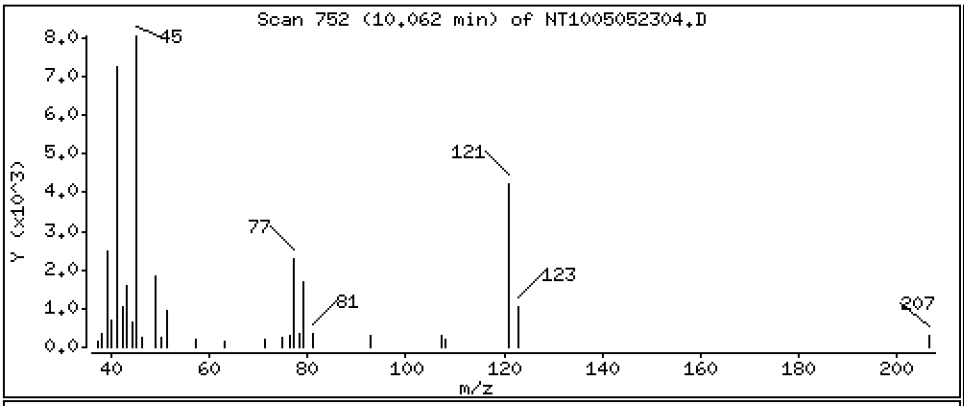
Operator: VTS

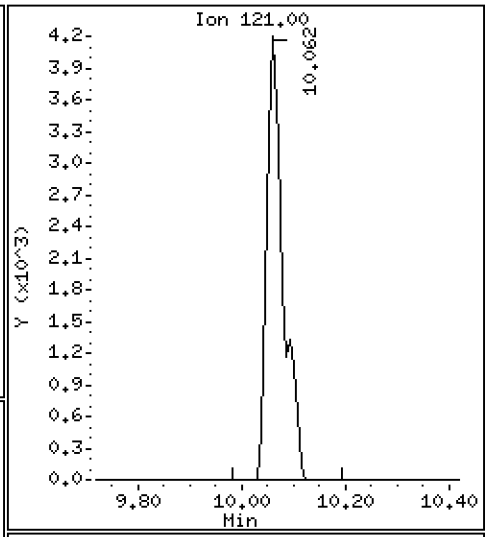
Column phase: ZB-5msi

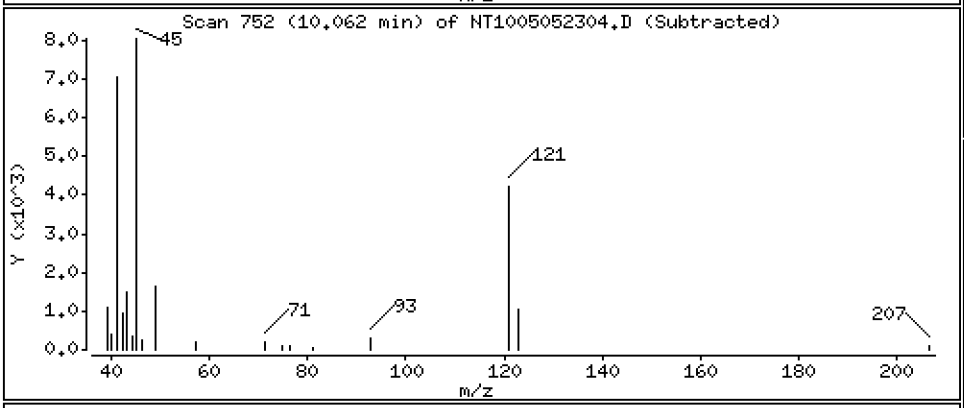
Column diameter: 0.25

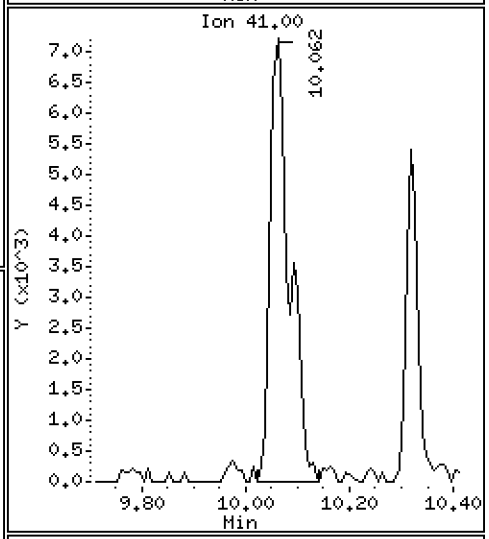
14 2,2'-oxybis(1-Chloropropane)

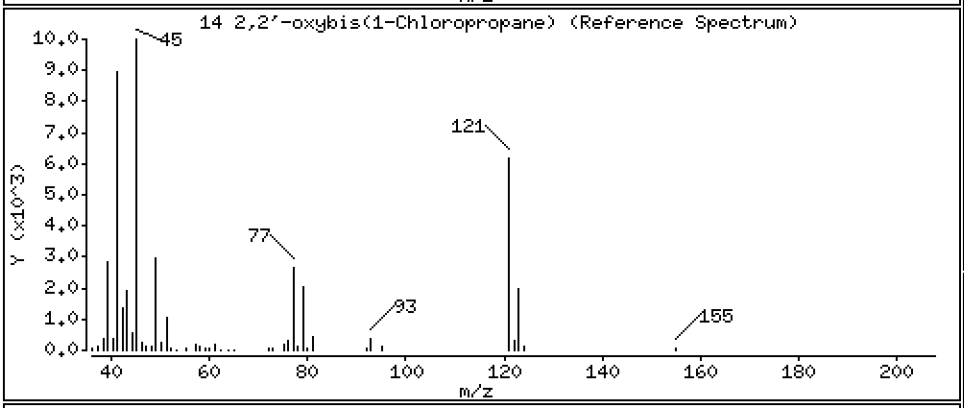
Concentration: 0.4125 ug/mL

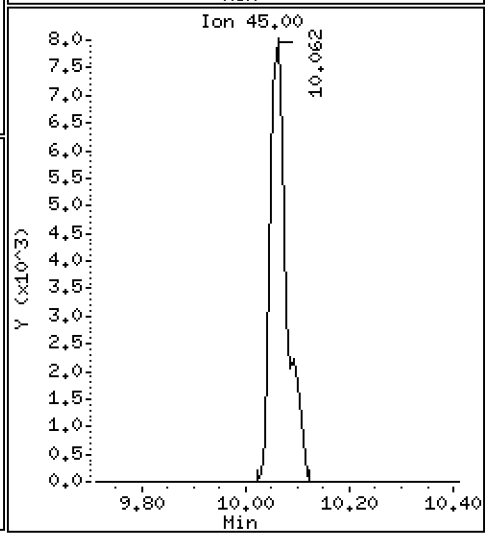


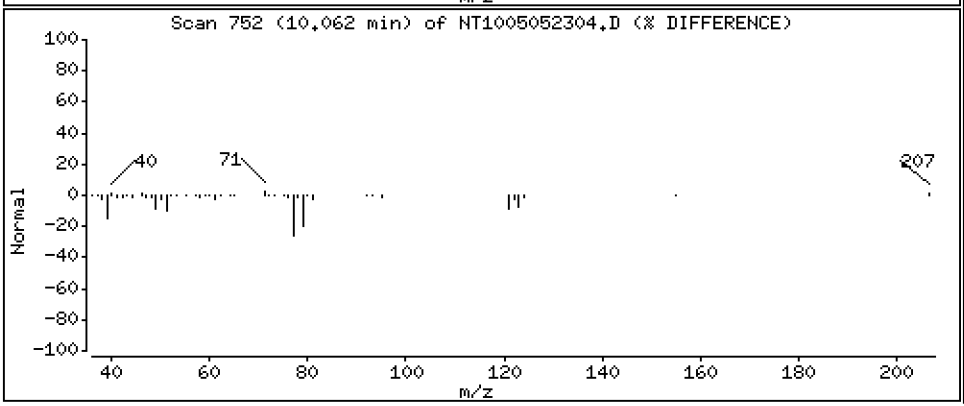












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

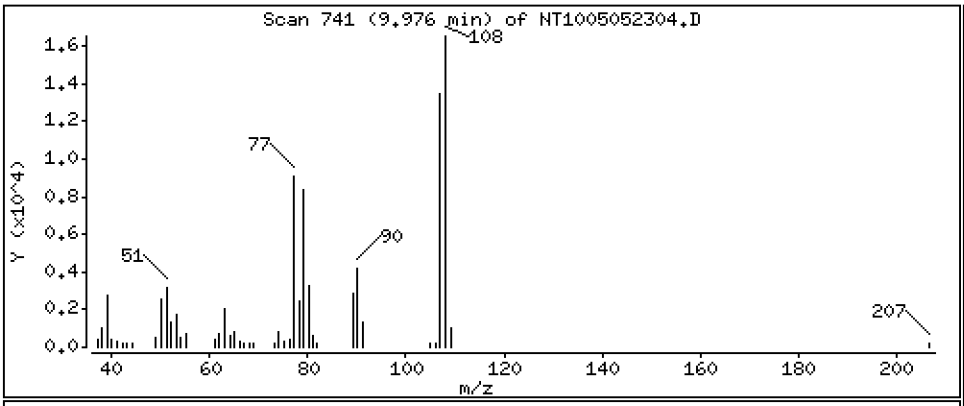
Operator: VTS

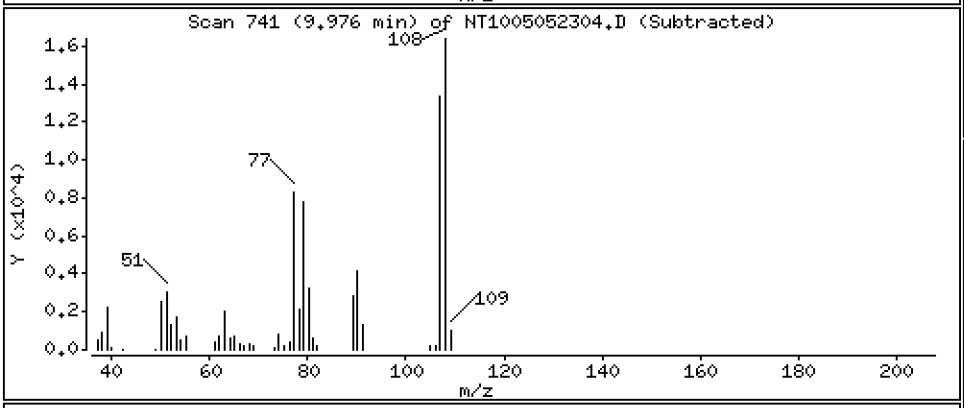
Column phase: ZB-5msi

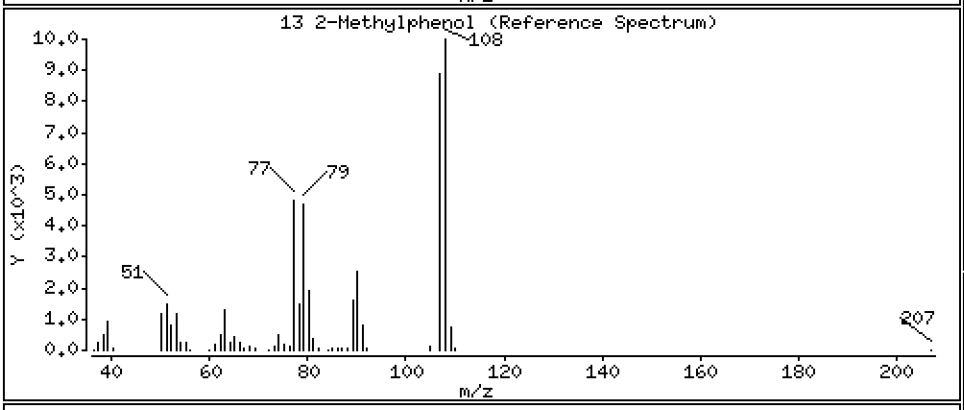
Column diameter: 0.25

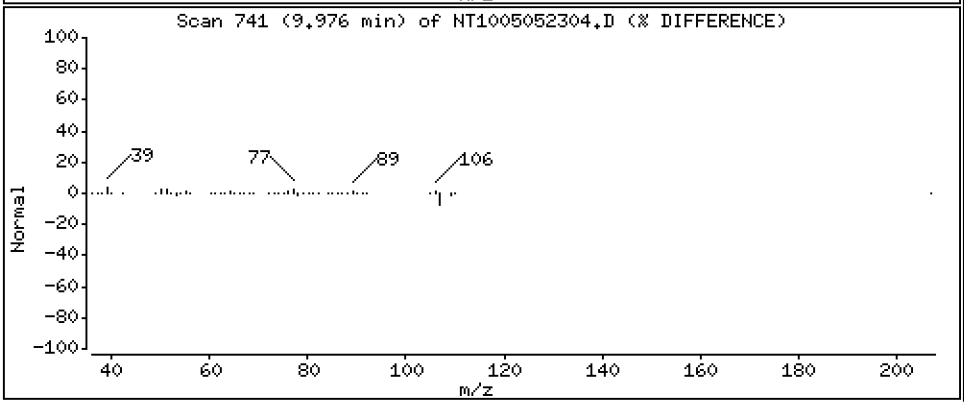
13 2-Methylphenol

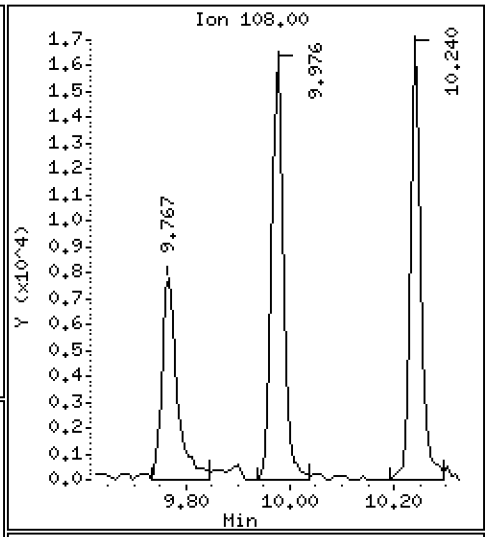
Concentration: 0.4213 ug/mL

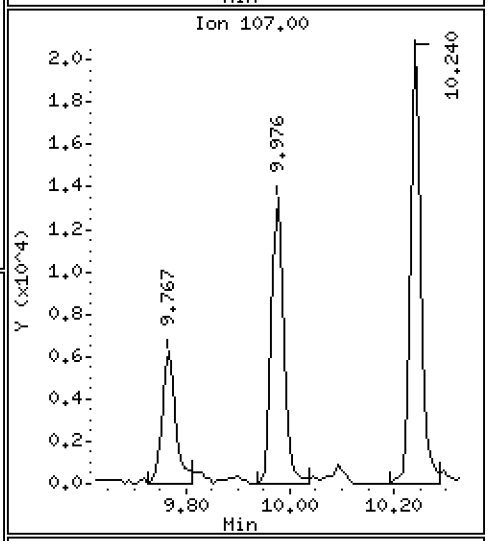


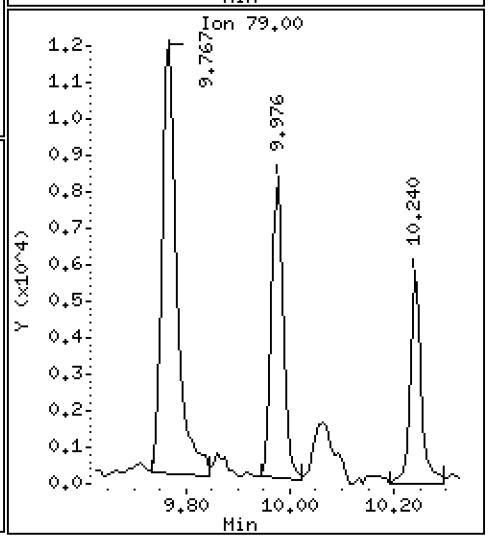












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

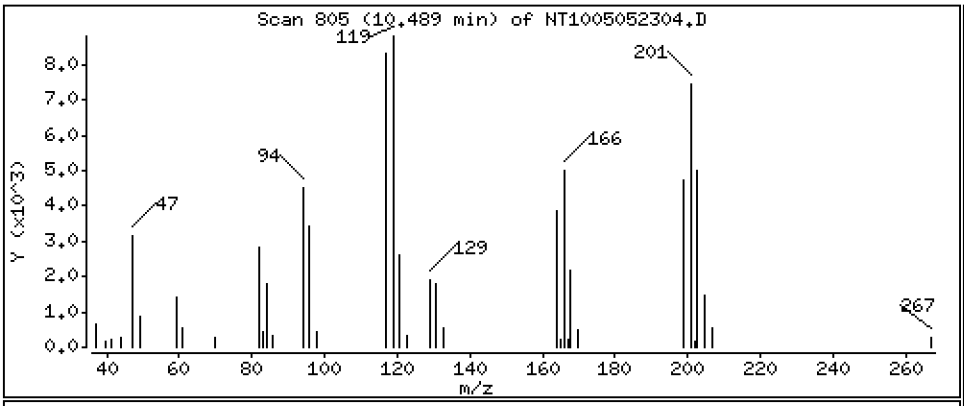
Operator: VTS

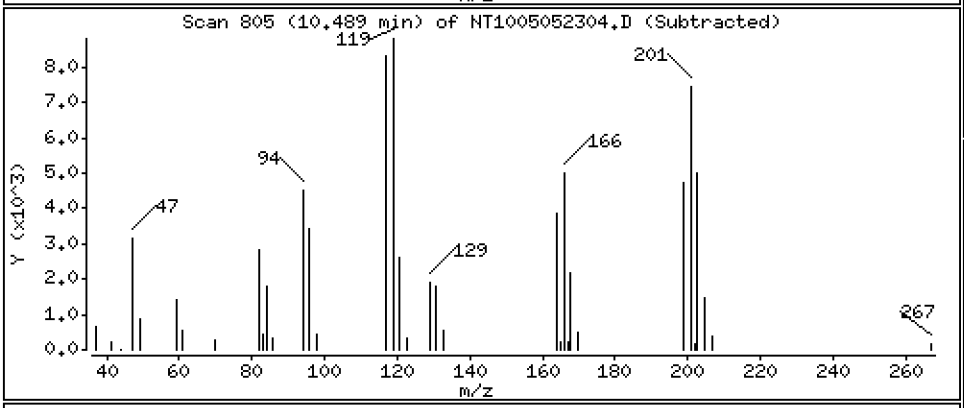
Column phase: ZB-5msi

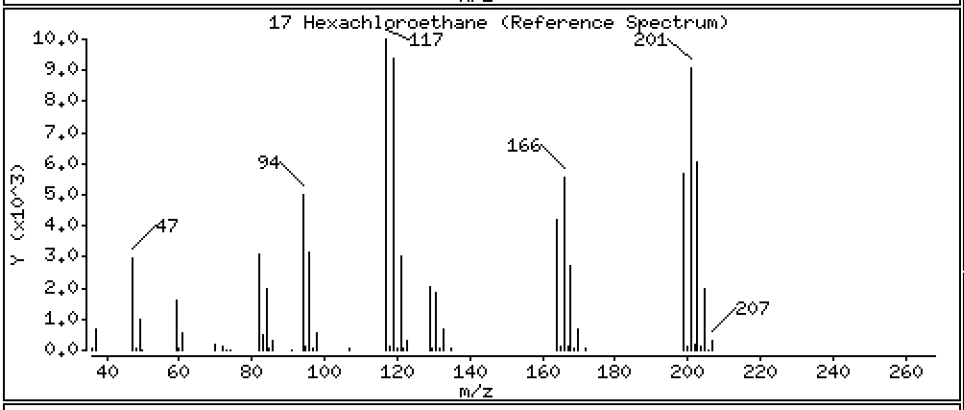
Column diameter: 0.25

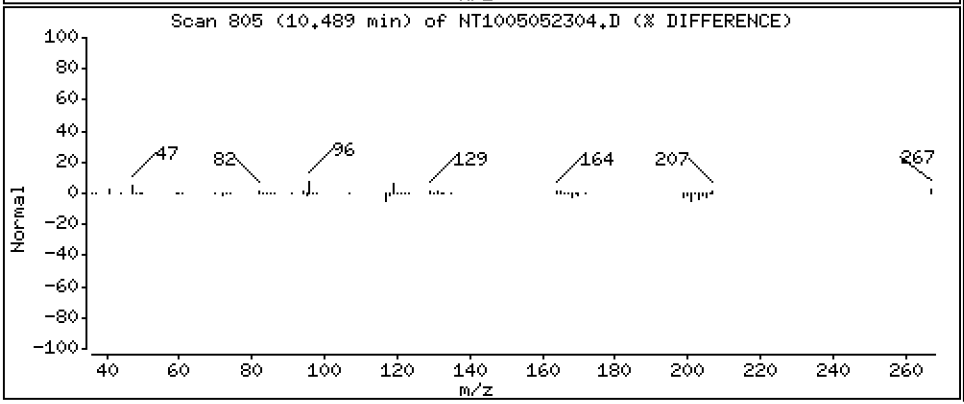
17 Hexachloroethane

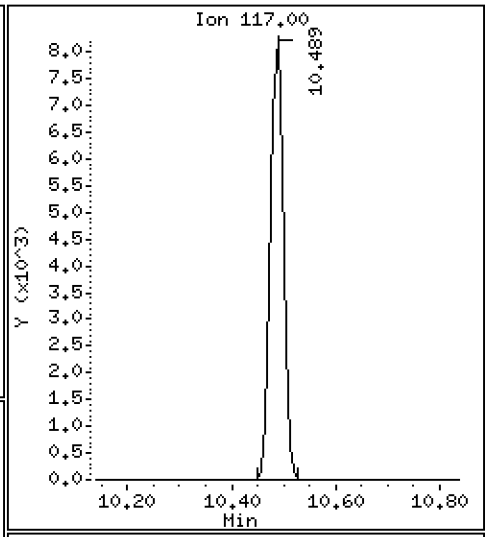
Concentration: 0.4099 ug/mL

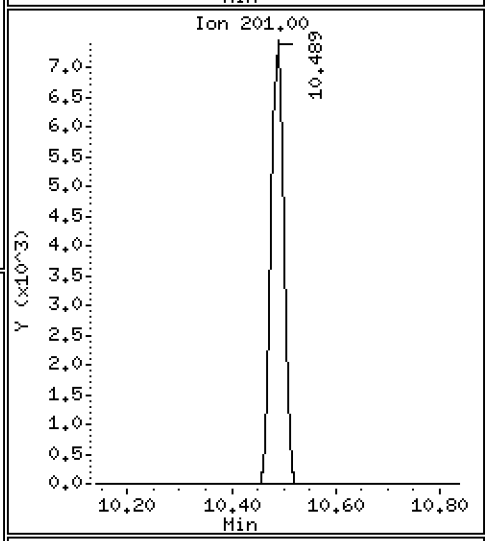


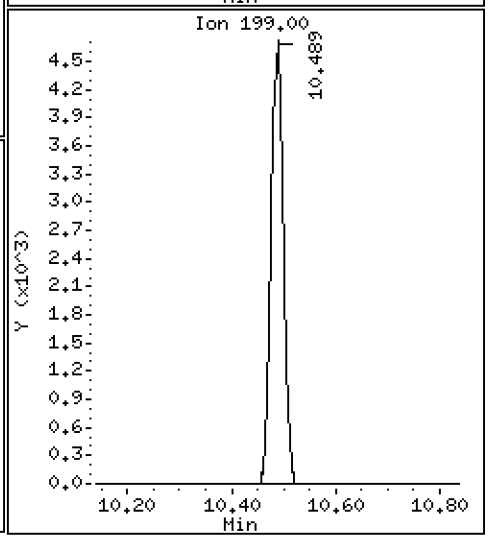












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

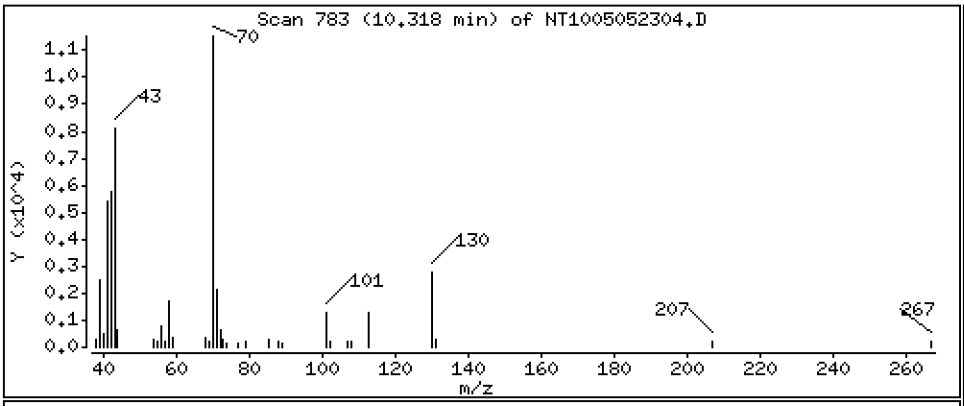
Operator: VTS

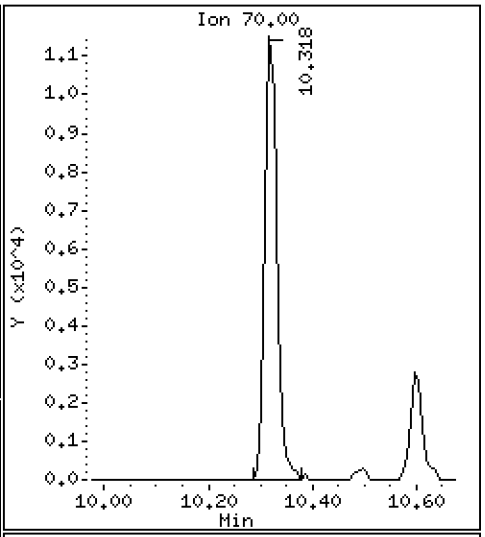
Column phase: ZB-5msi

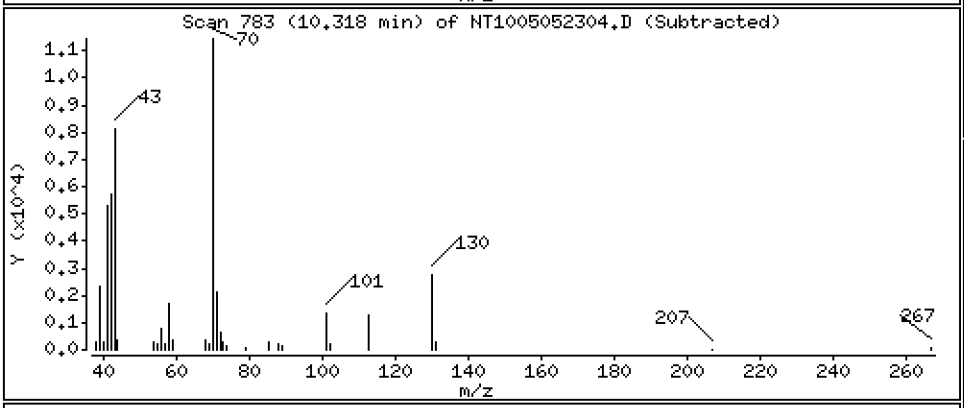
Column diameter: 0.25

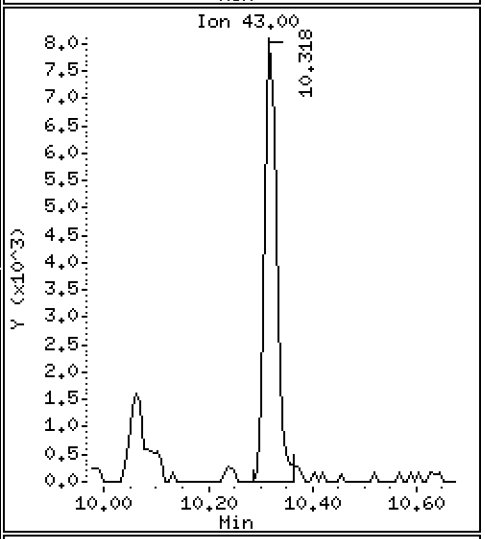
16 N-Nitroso-di-n-propylamine

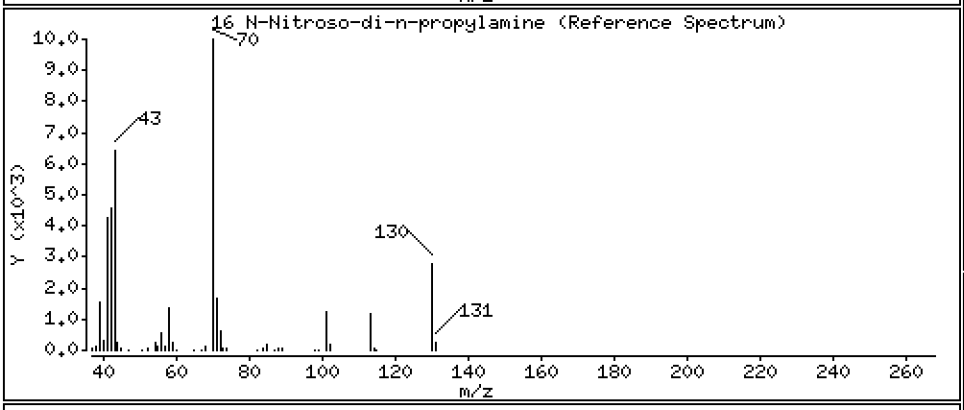
Concentration: 0.3855 ug/mL

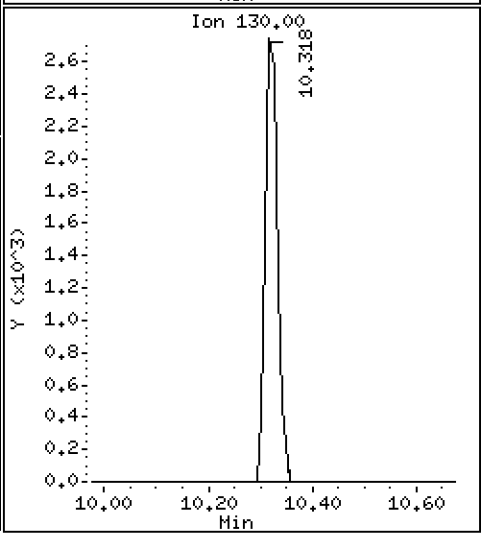


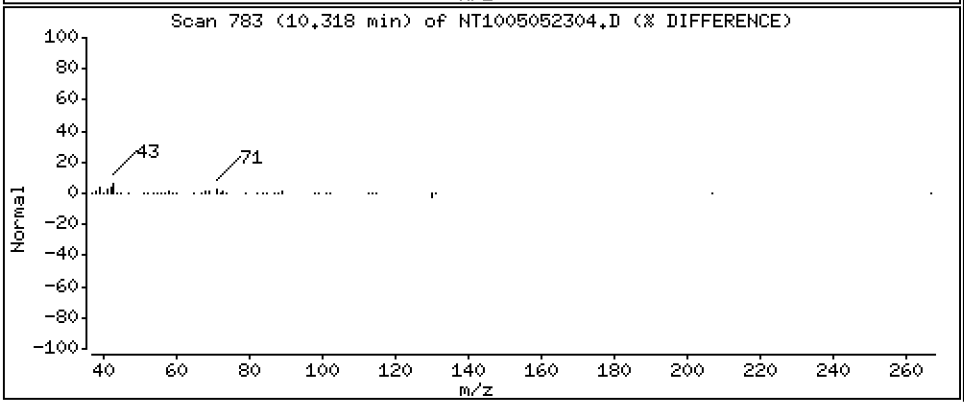












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

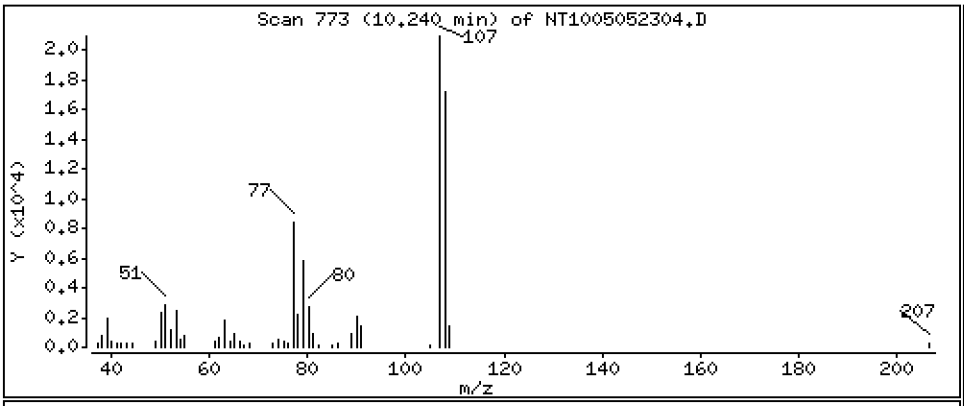
Operator: VTS

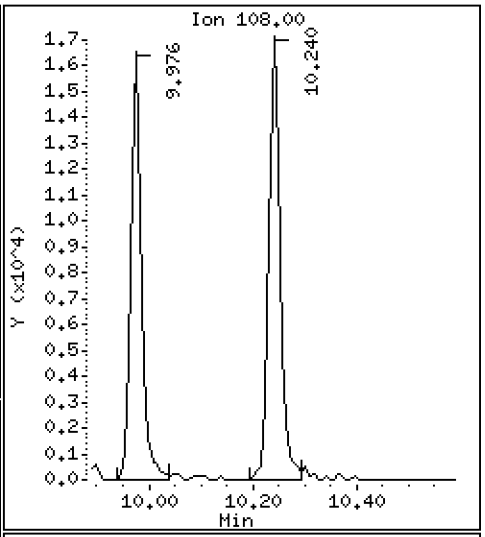
Column phase: ZB-5msi

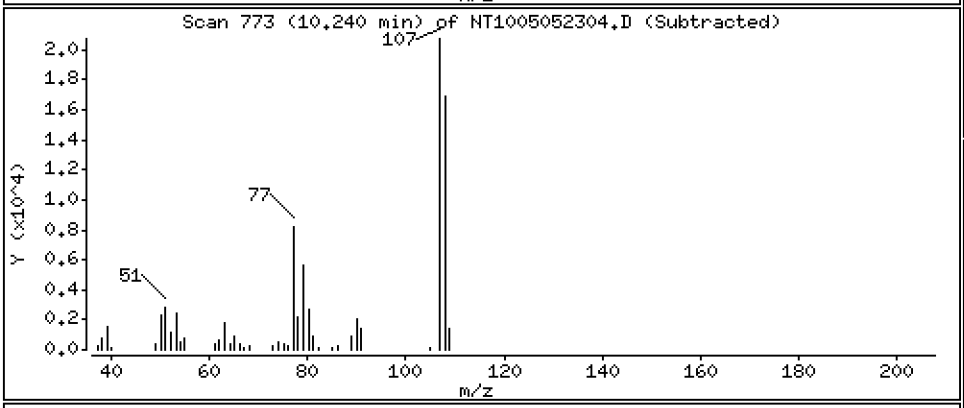
Column diameter: 0.25

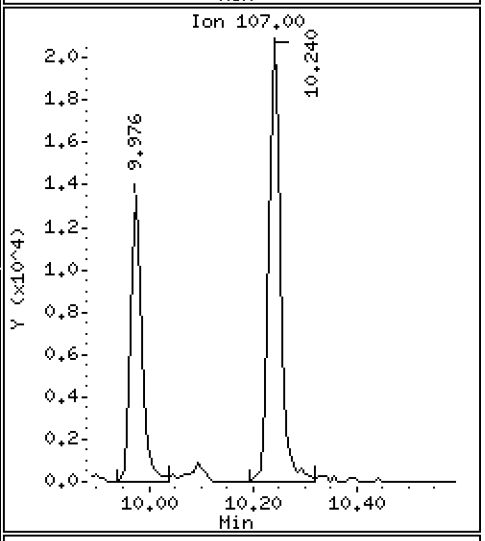
15 4-Methylphenol

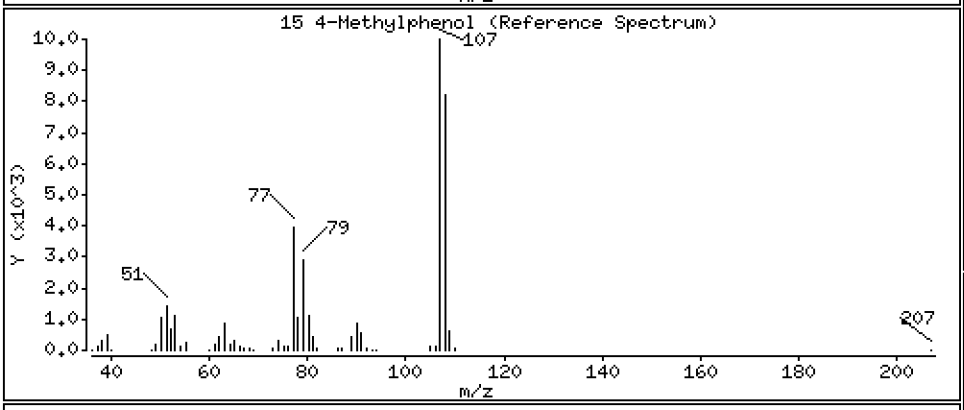
Concentration: 0.4160 ug/mL

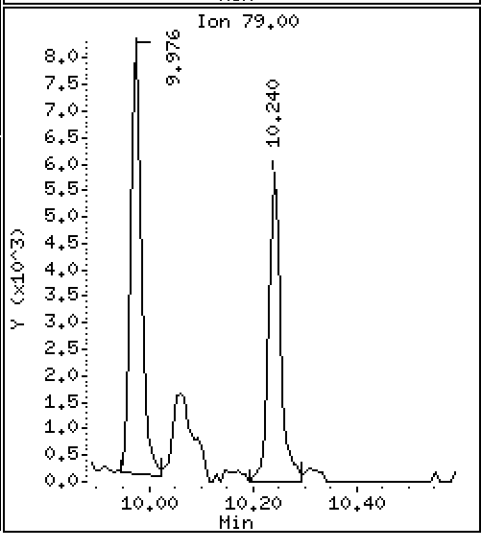


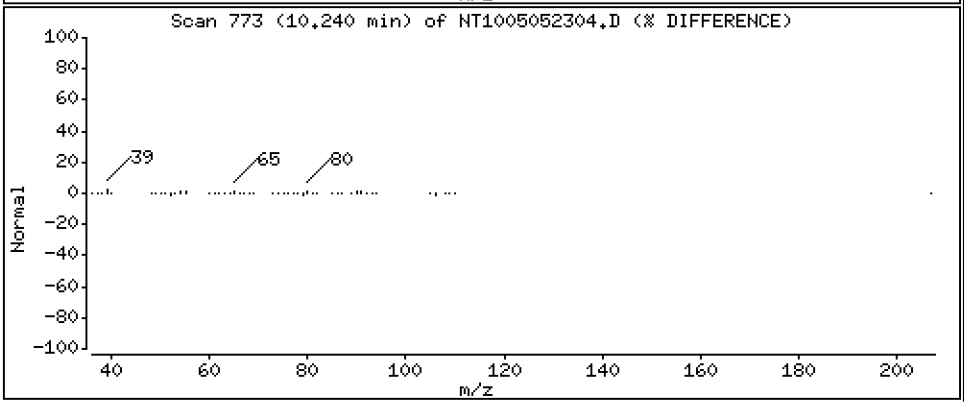












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

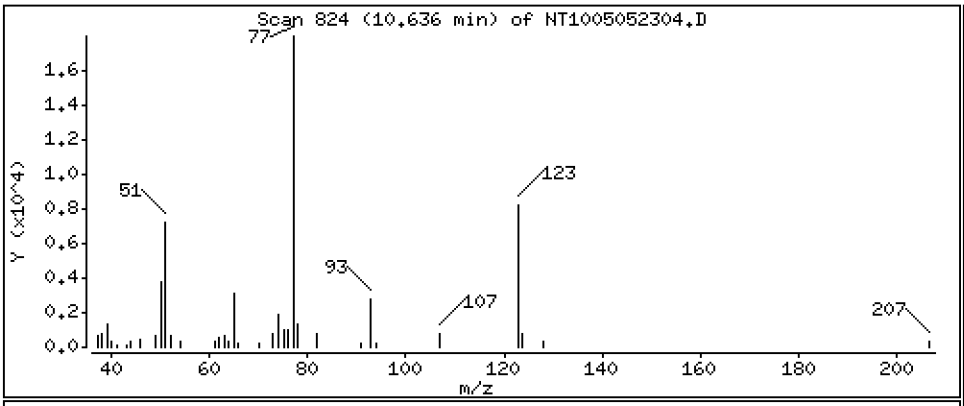
Operator: VTS

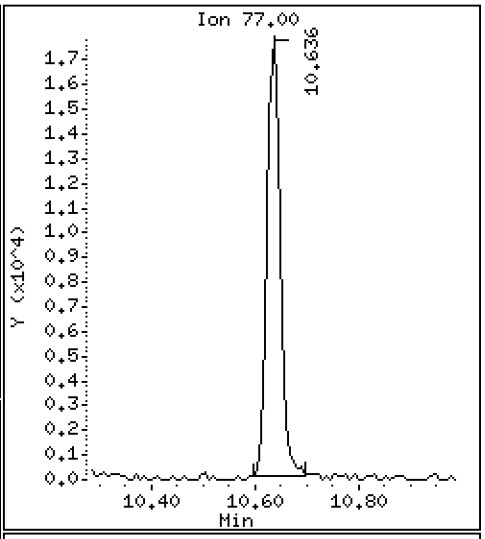
Column phase: ZB-5msi

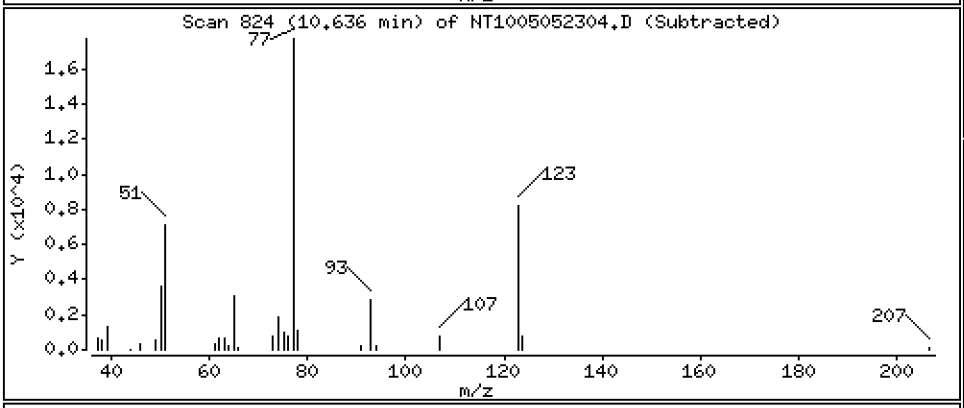
Column diameter: 0.25

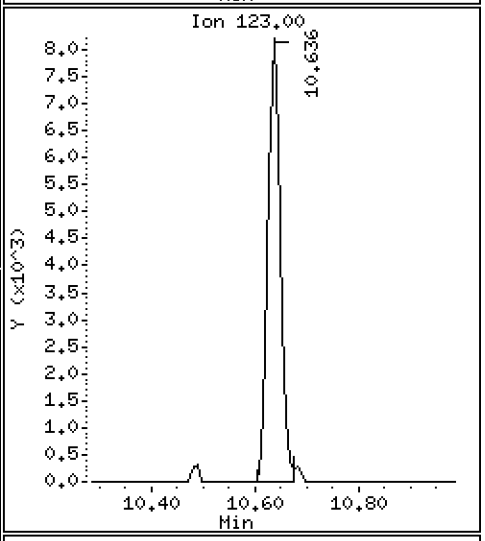
19 Nitrobenzene

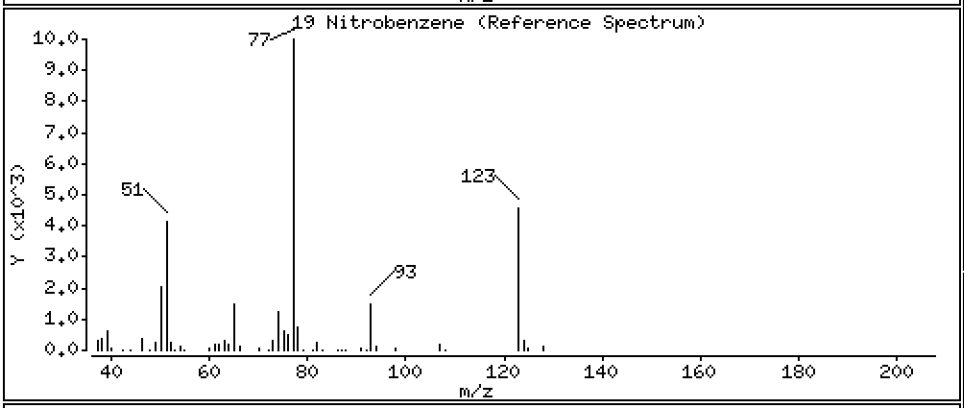
Concentration: 0.4169 ug/mL

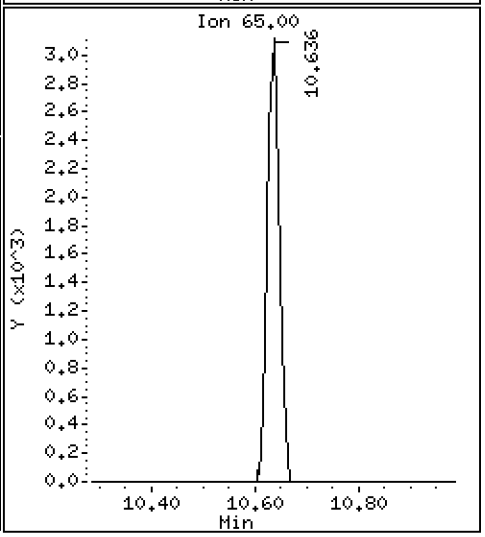


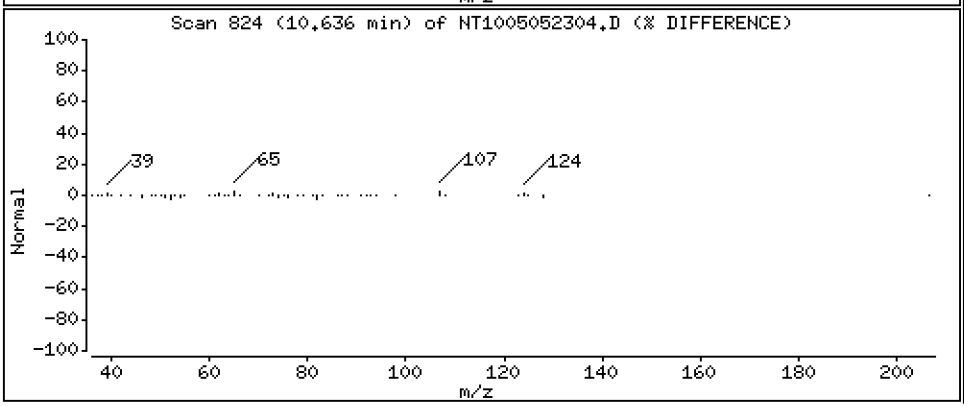












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

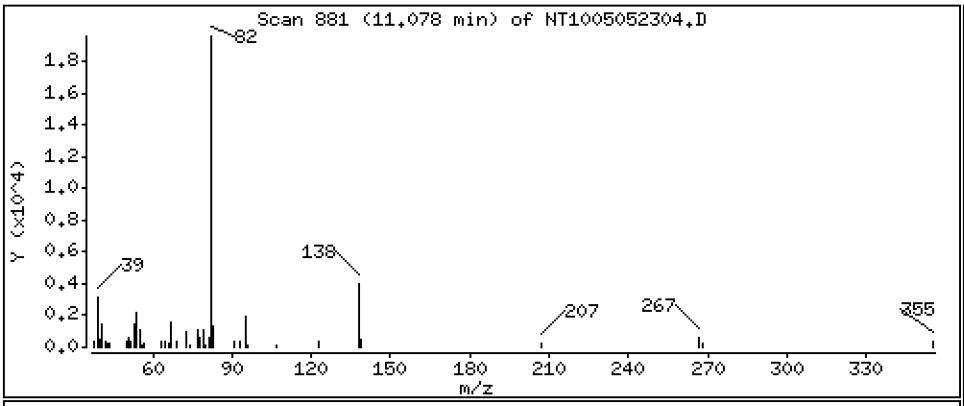
Operator: VTS

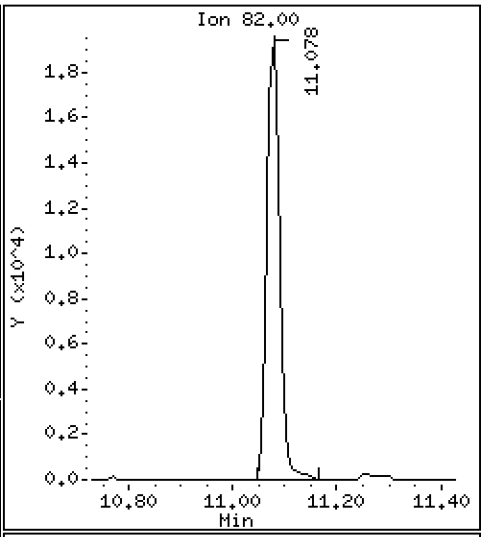
Column phase: ZB-5msi

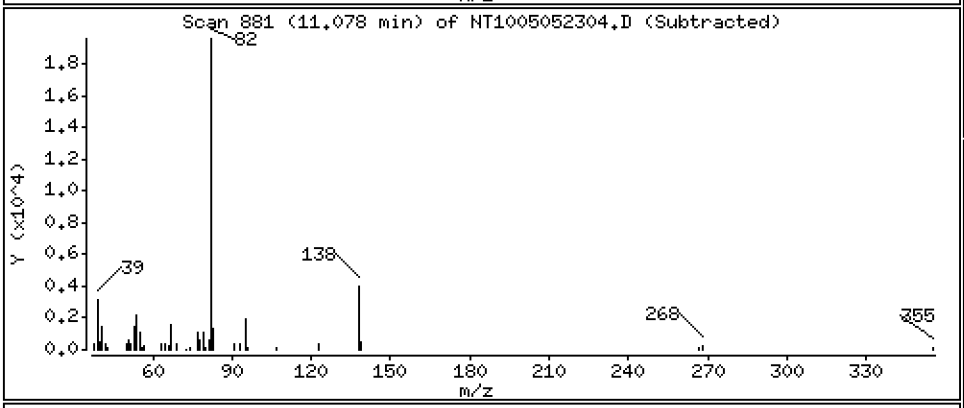
Column diameter: 0.25

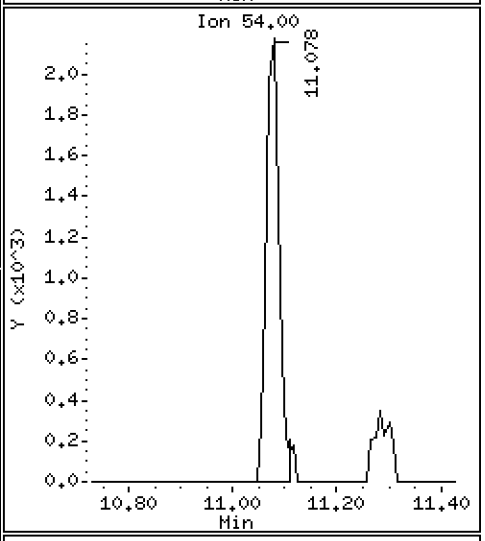
20 Isophorone

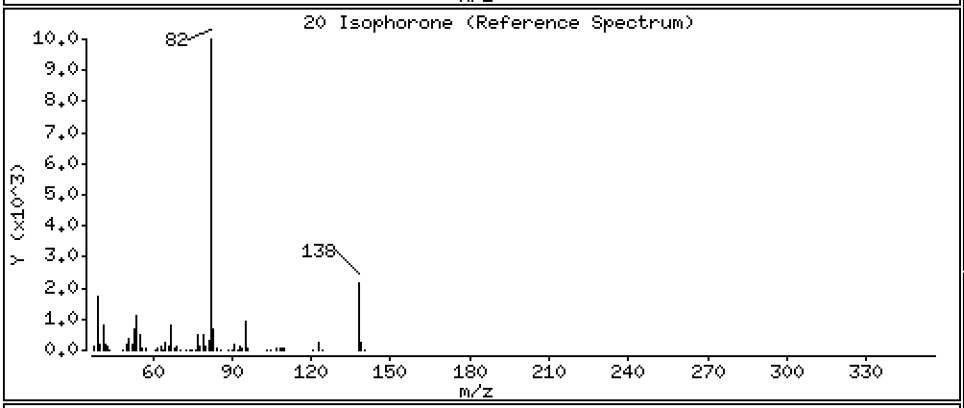
Concentration: 0.4300 ug/mL

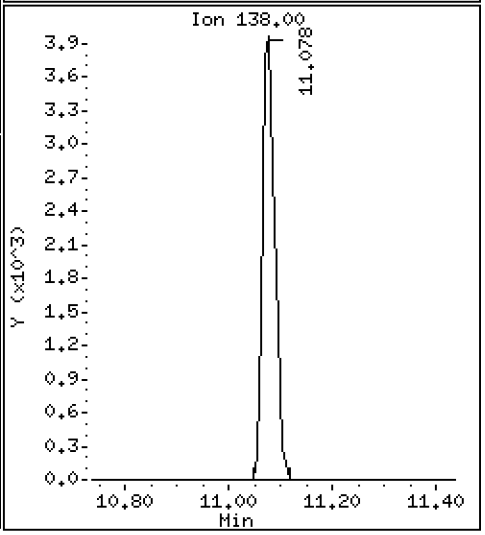


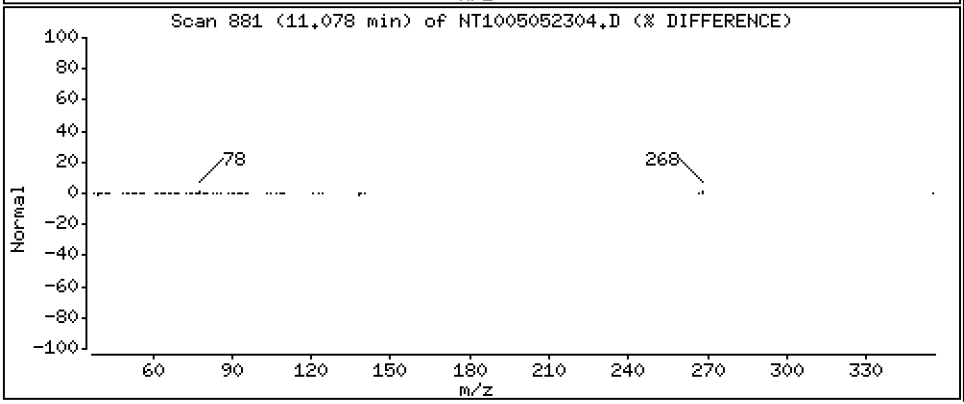












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

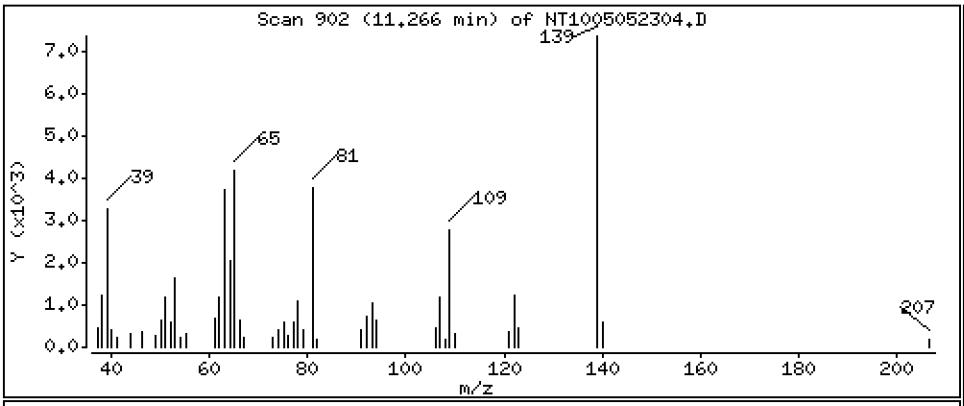
Operator: VTS

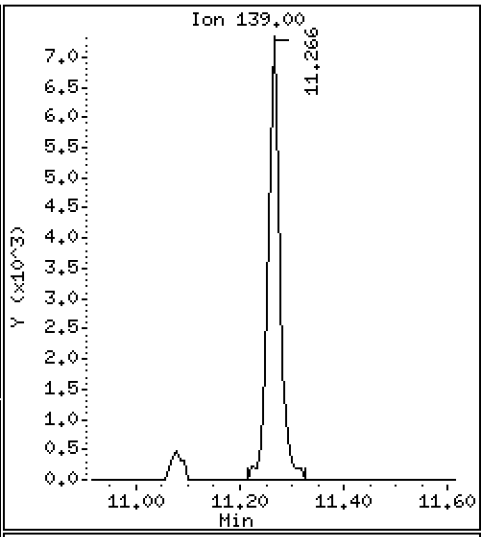
Column phase: ZB-5msi

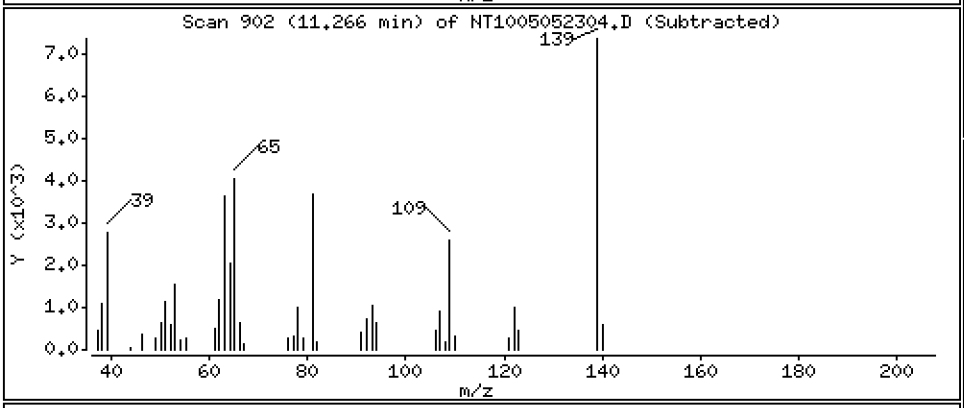
Column diameter: 0.25

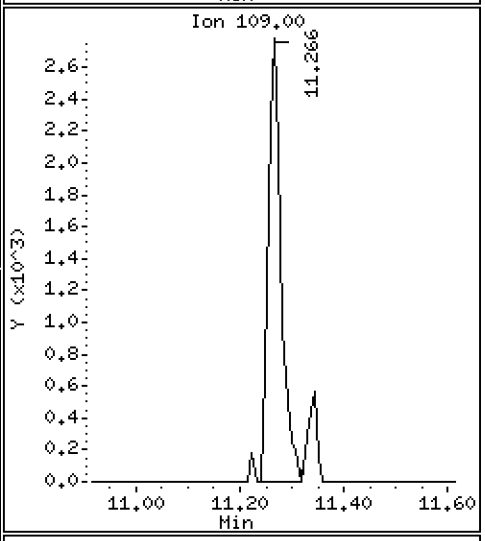
21 2-Nitrophenol

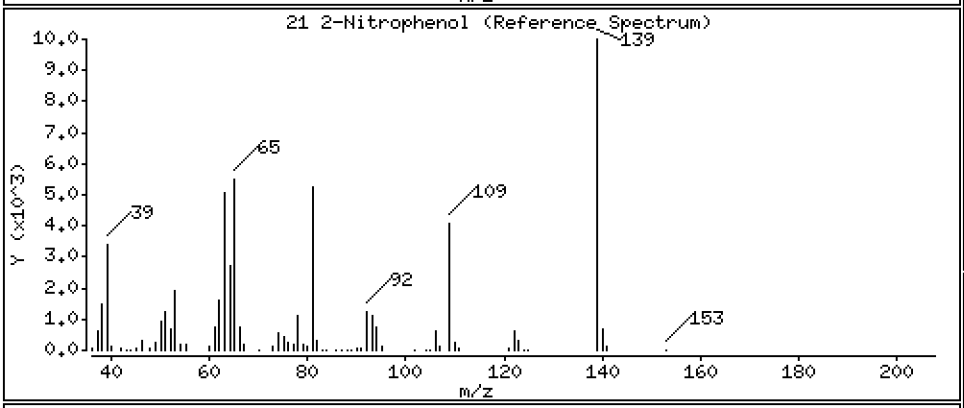
Concentration: 0.3153 ug/mL

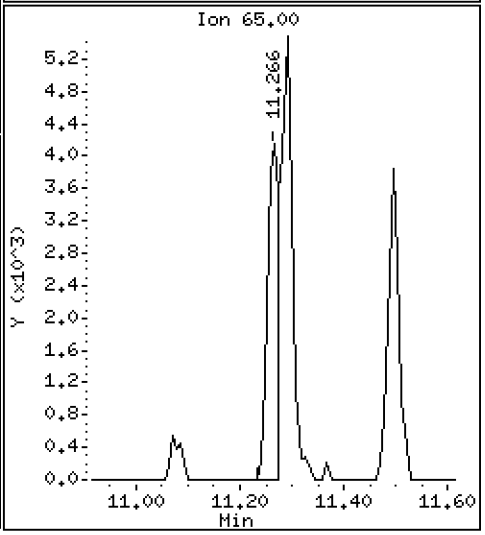


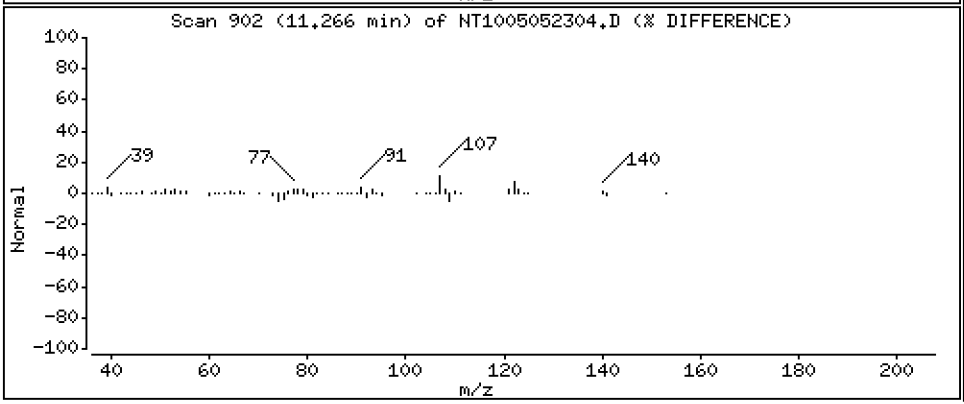












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

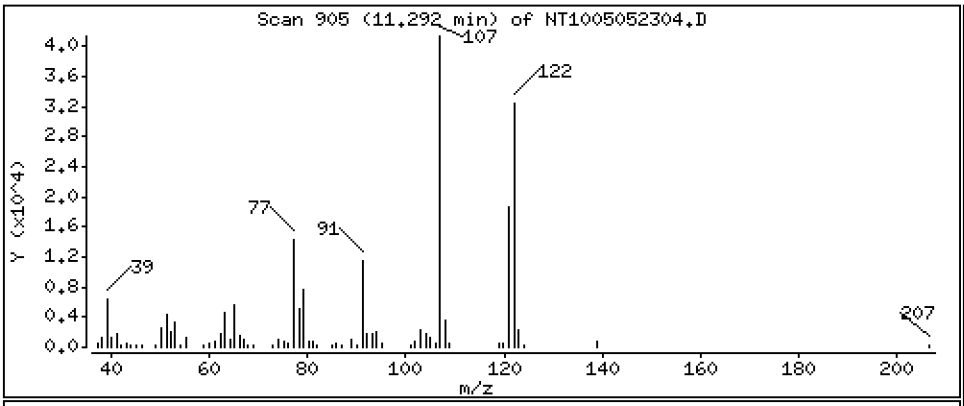
Operator: VTS

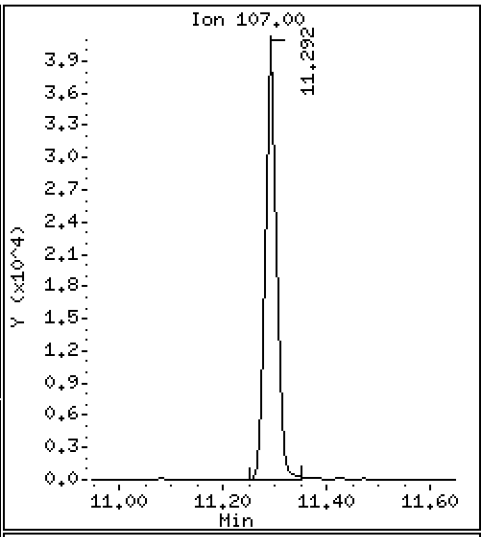
Column phase: ZB-5msi

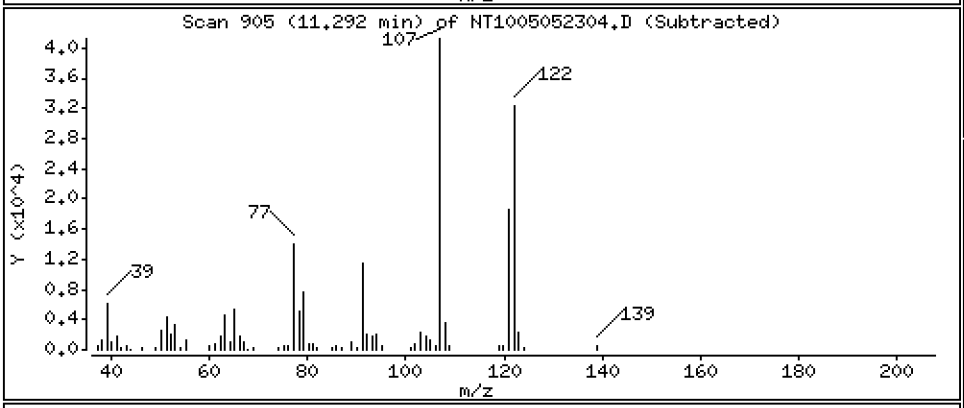
Column diameter: 0.25

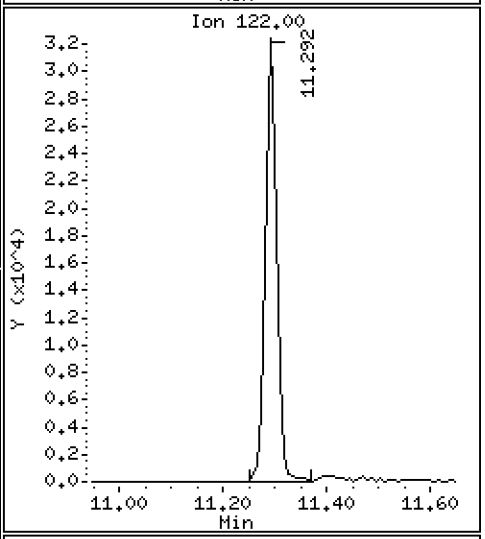
22 2,4-Dimethylphenol

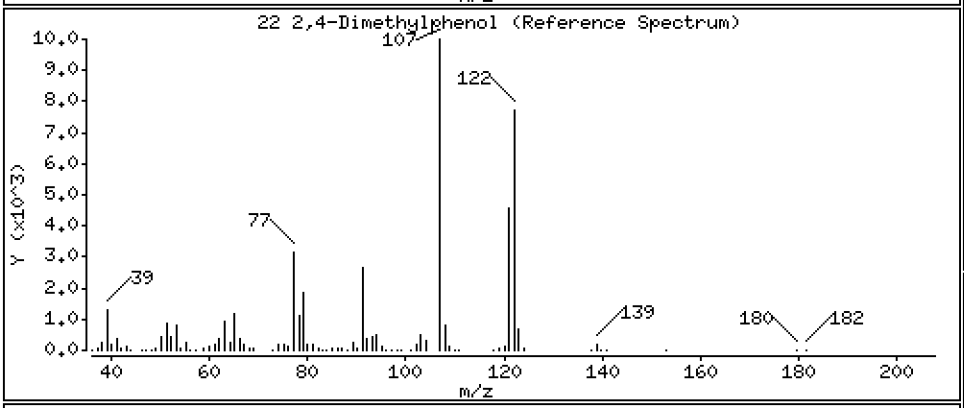
Concentration: 0.8687 ug/mL

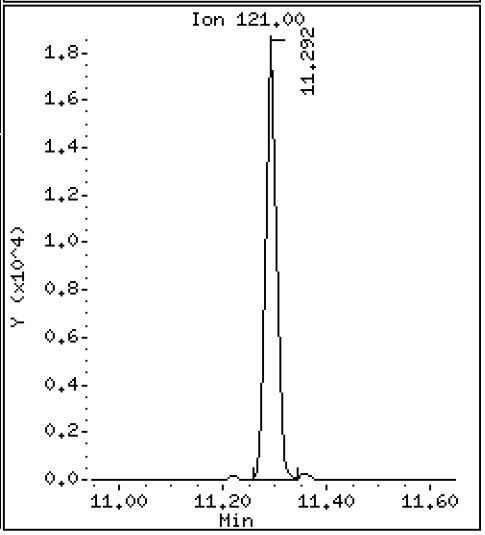


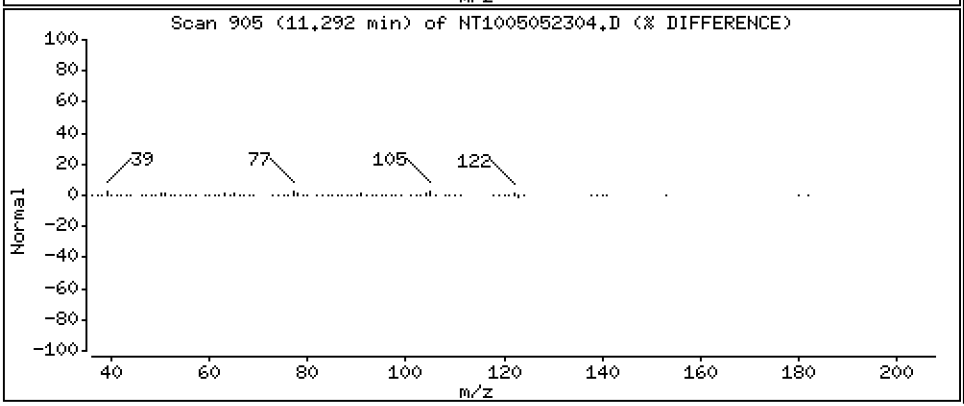












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

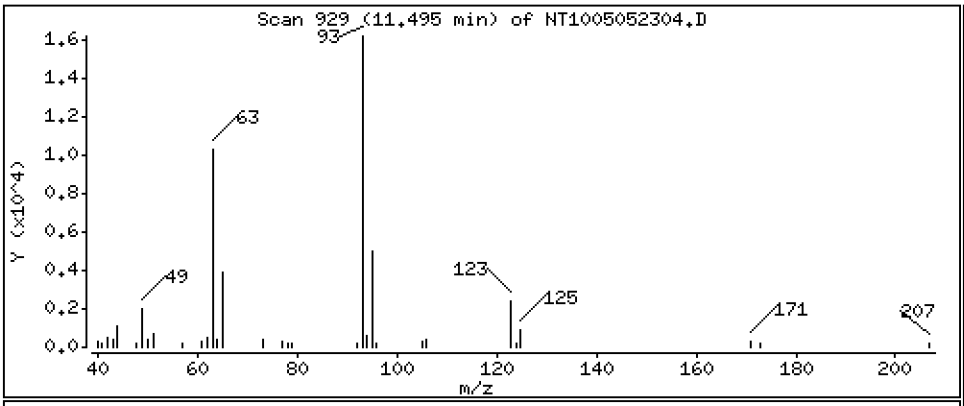
Operator: VTS

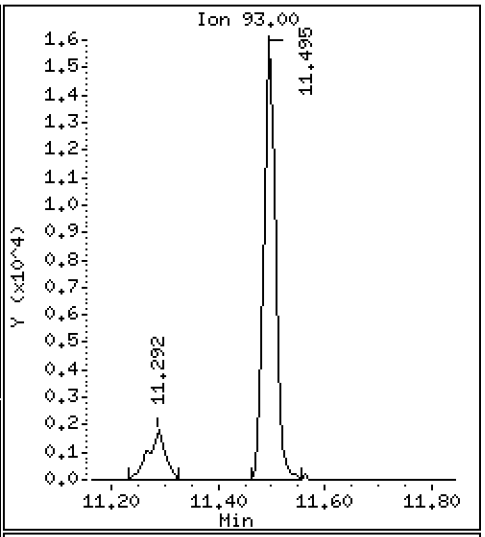
Column phase: ZB-5msi

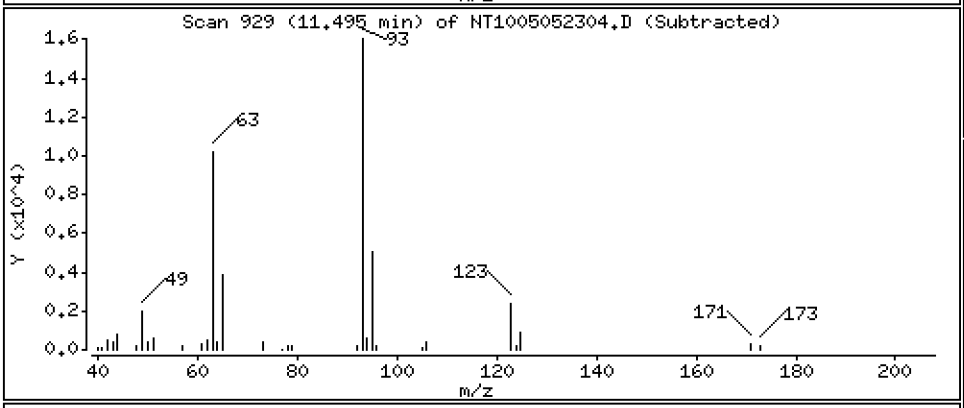
Column diameter: 0.25

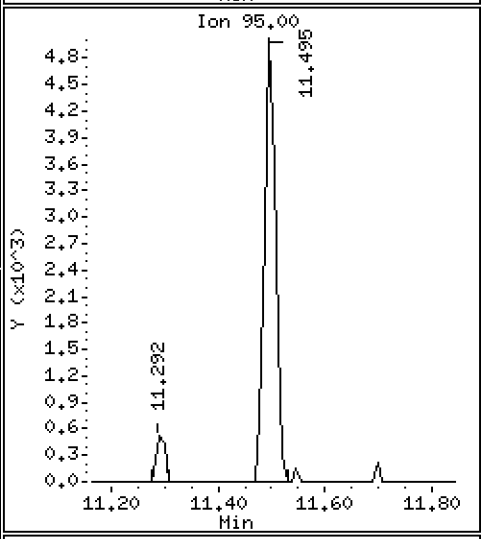
23 Bis(2-Chloroethoxy)methane

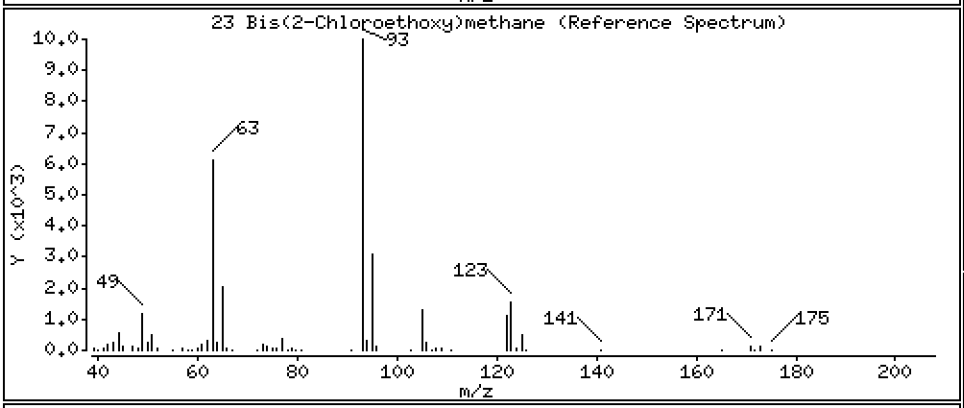
Concentration: 0.4385 ug/mL

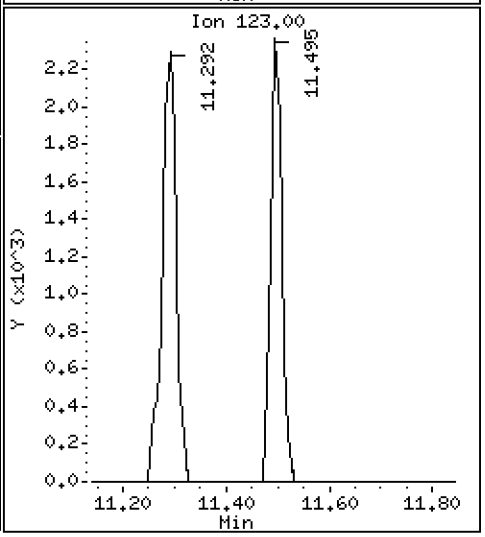


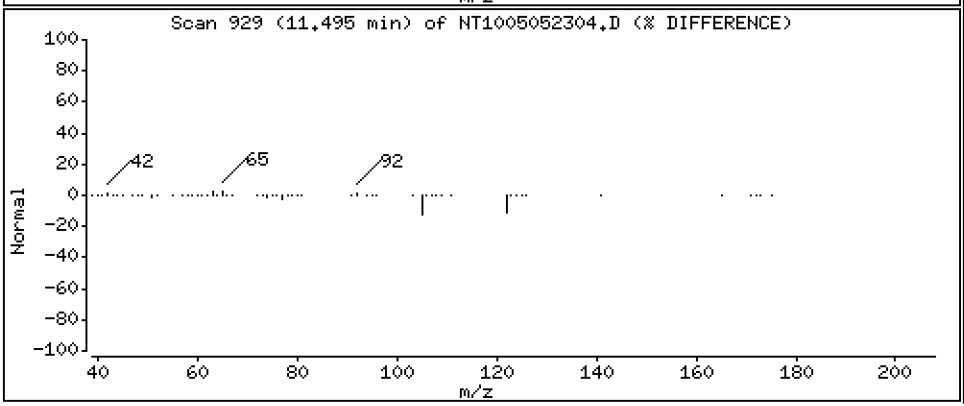












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

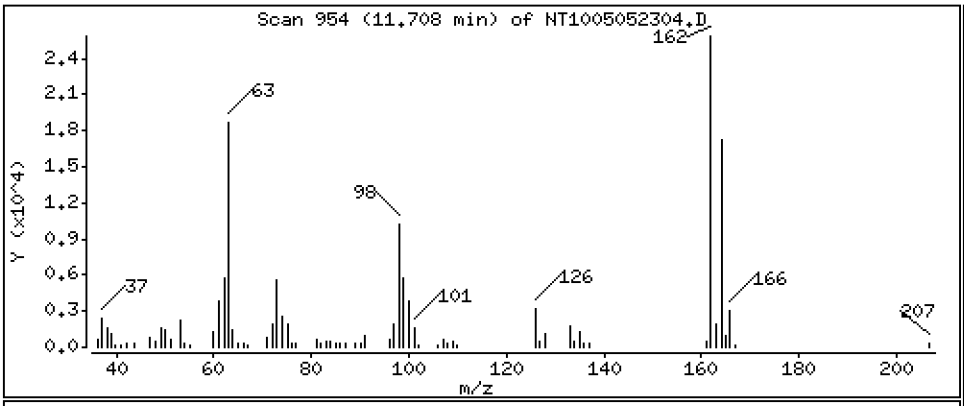
Operator: VTS

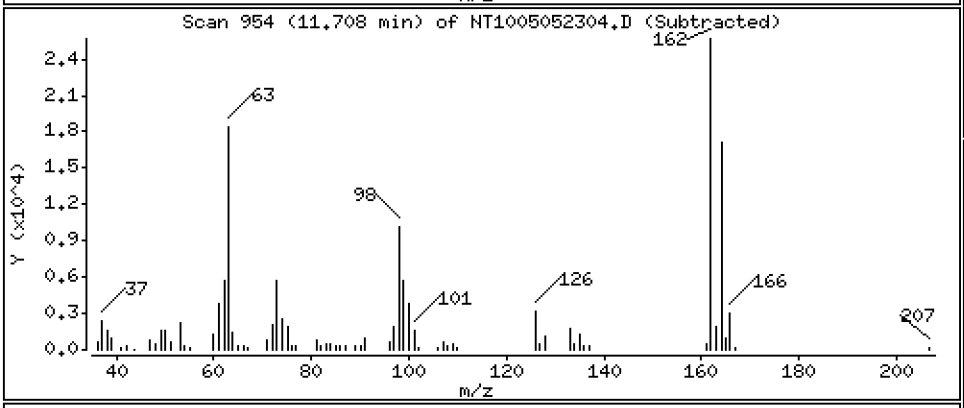
Column phase: ZB-5msi

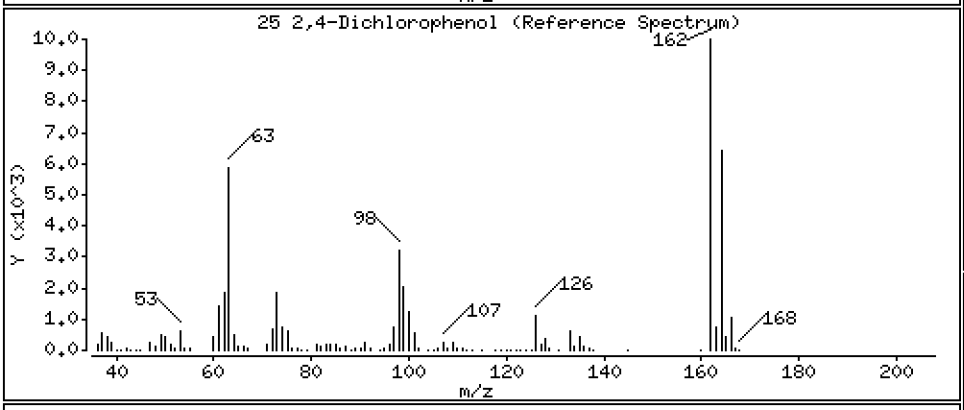
Column diameter: 0.25

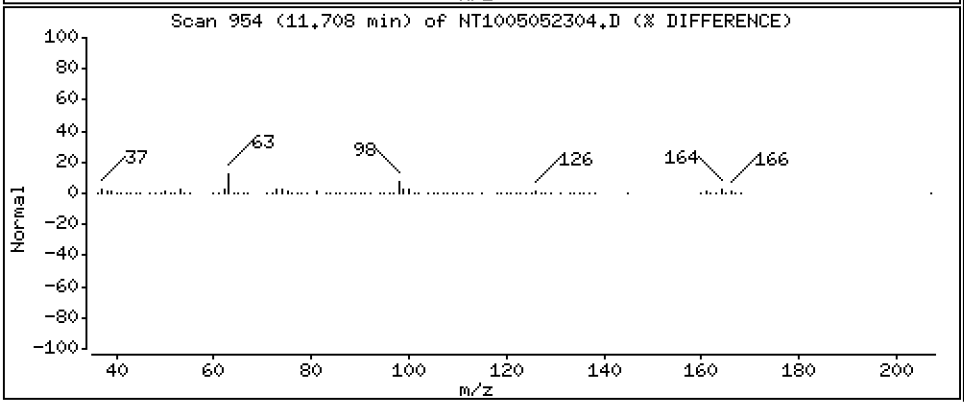
25 2,4-Dichlorophenol

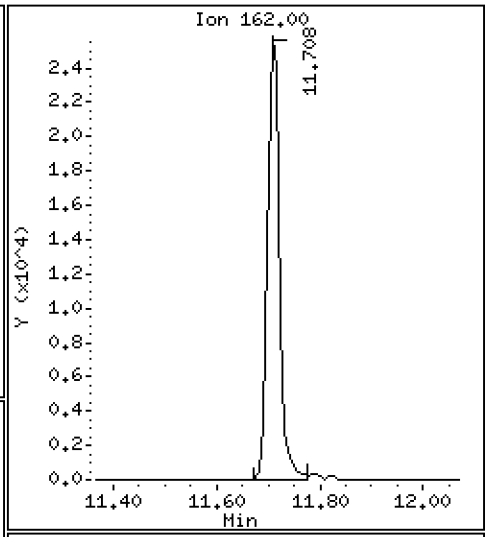
Concentration: 0.7646 ug/mL

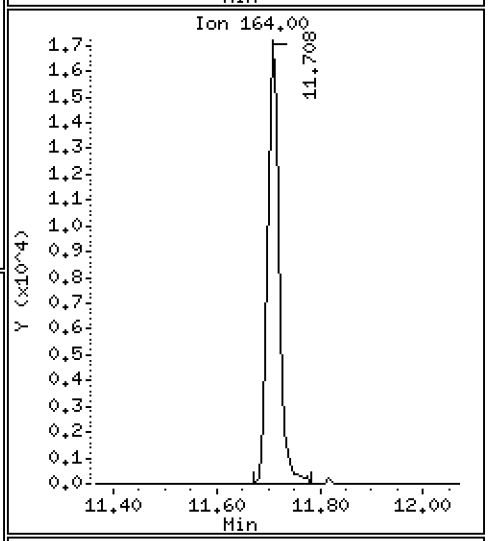


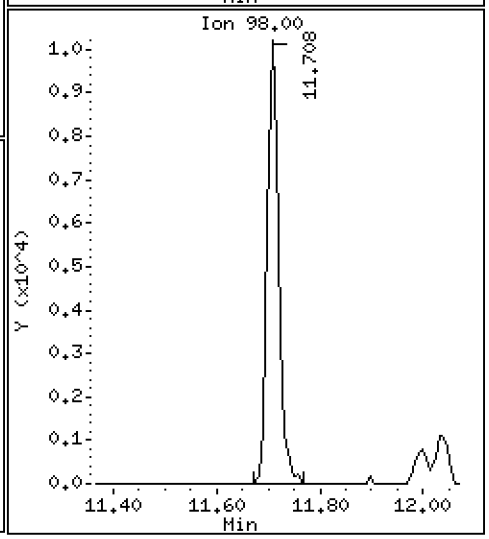












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

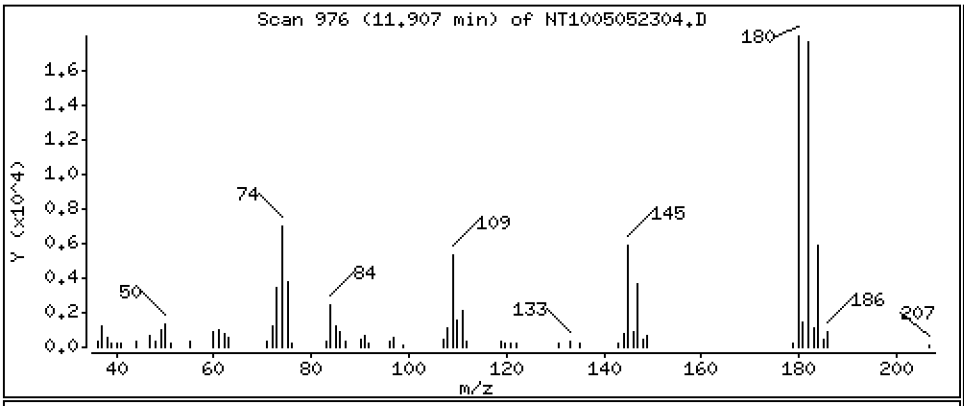
Operator: VTS

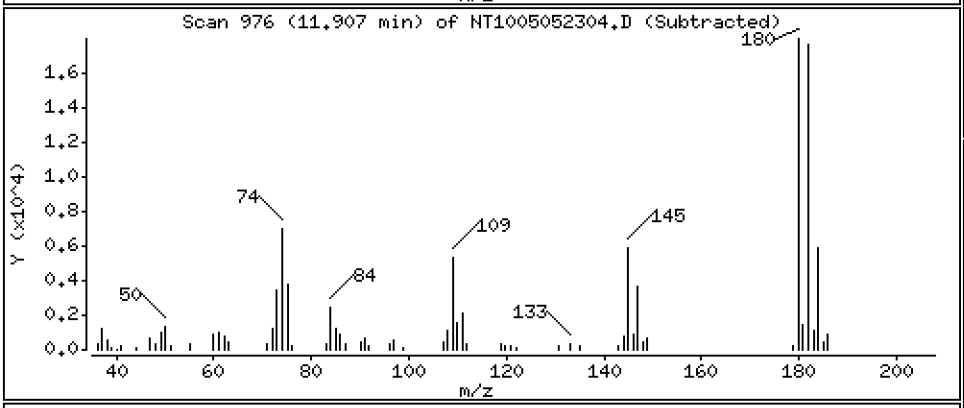
Column phase: ZB-5msi

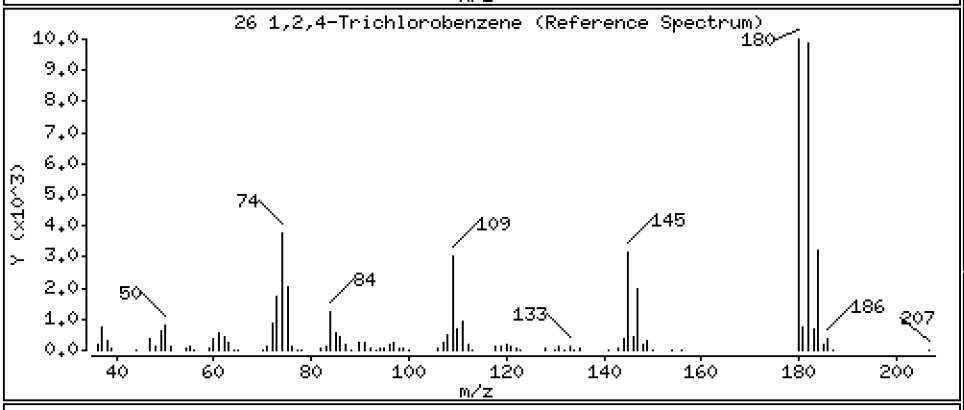
Column diameter: 0.25

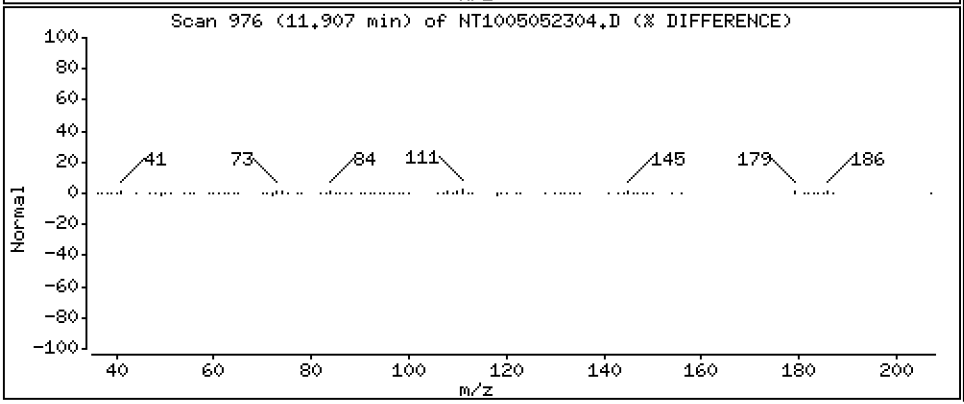
26 1,2,4-Trichlorobenzene

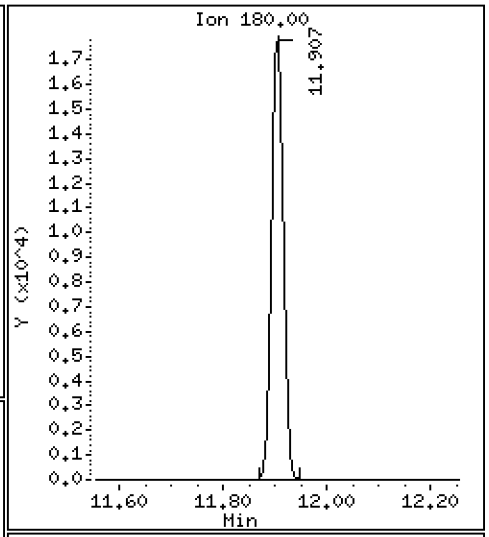
Concentration: 0.3801 ug/mL

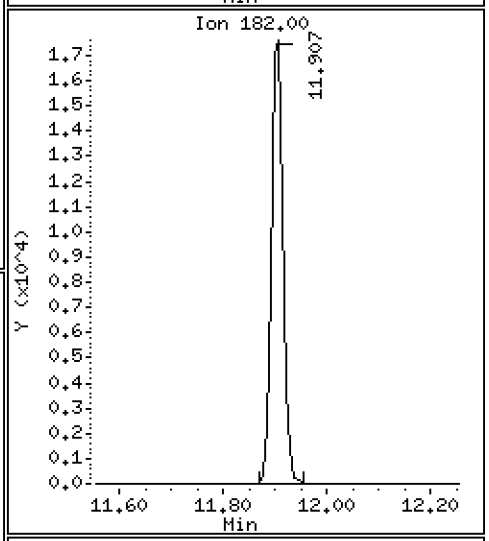


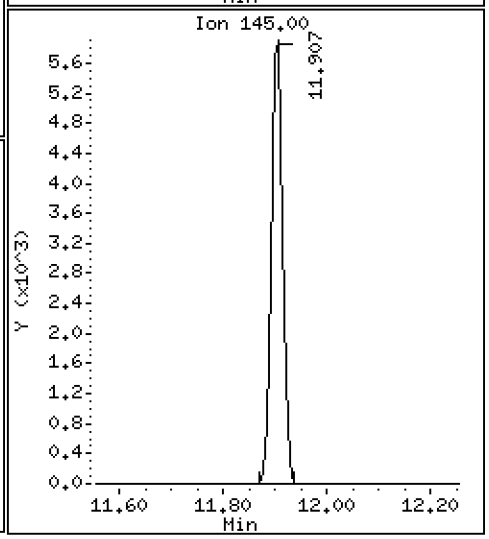












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

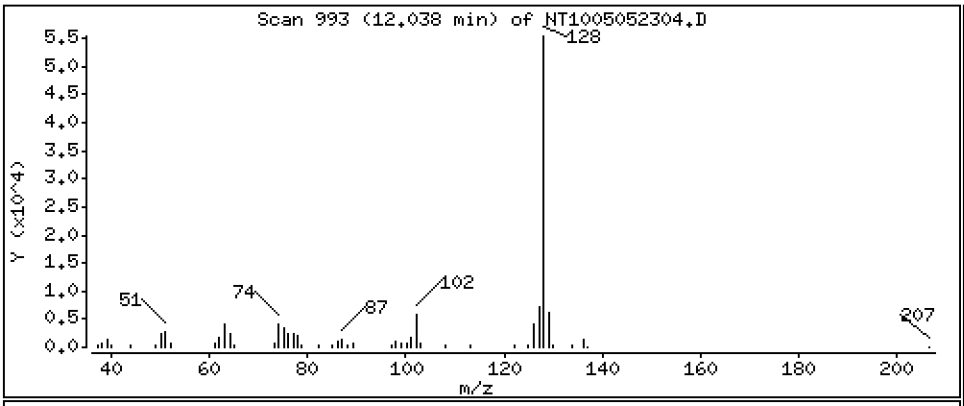
Operator: VTS

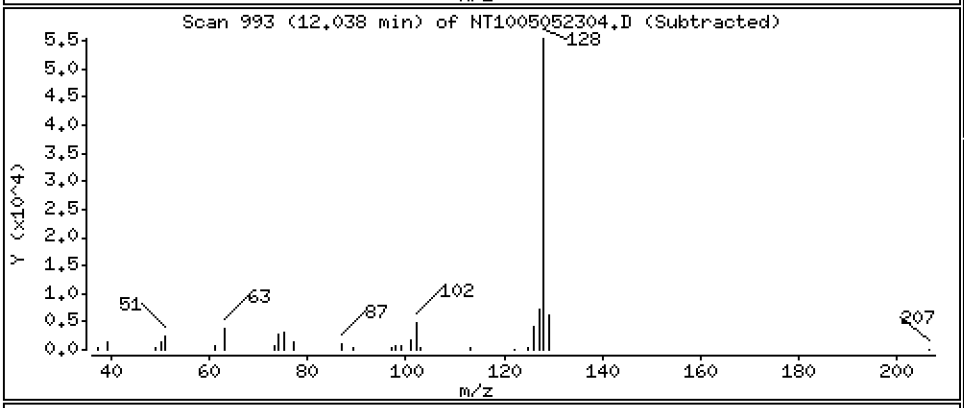
Column phase: ZB-5msi

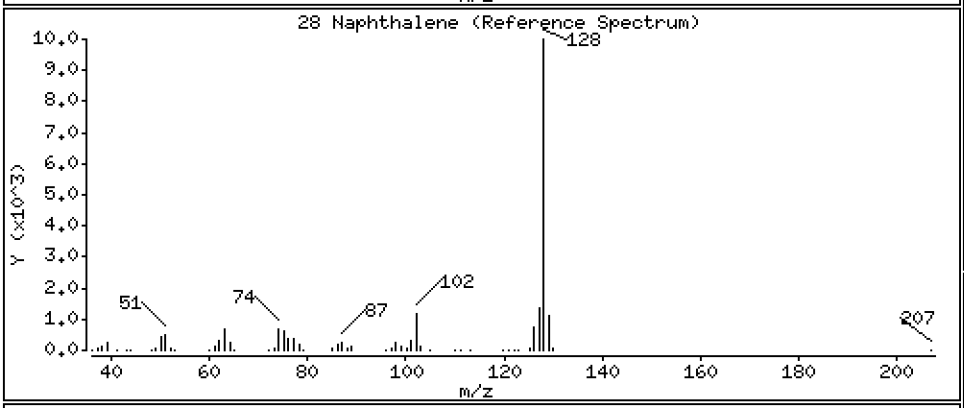
Column diameter: 0.25

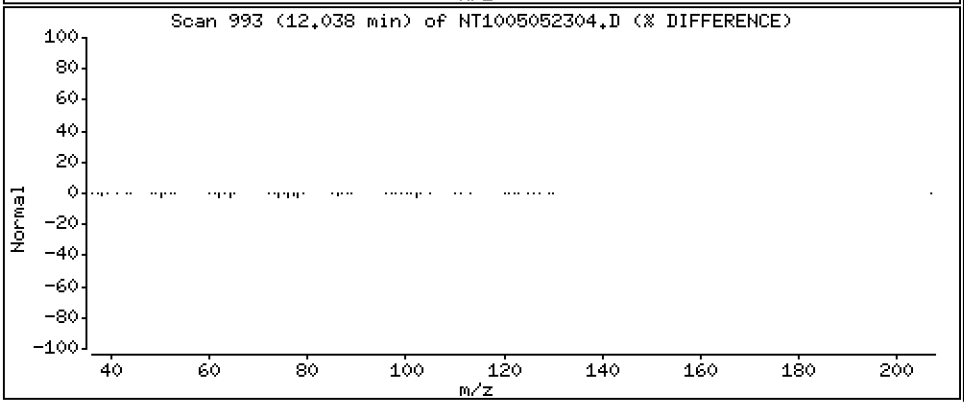
28 Naphthalene

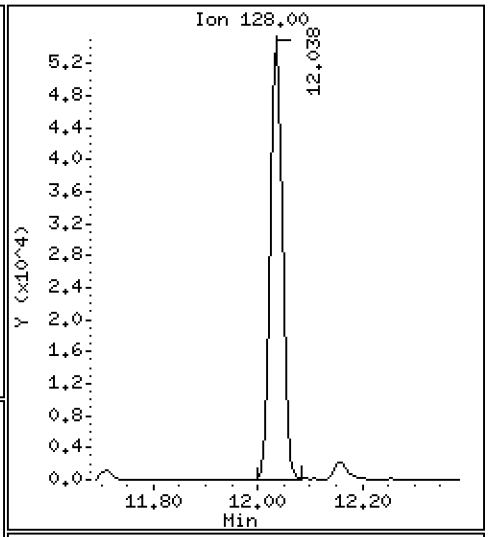
Concentration: 0.4573 ug/mL

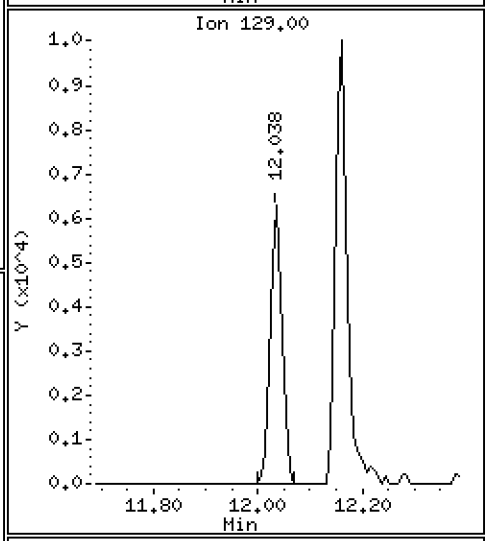


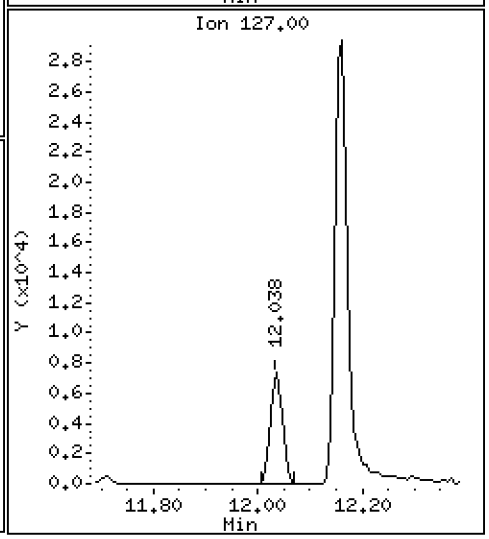












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

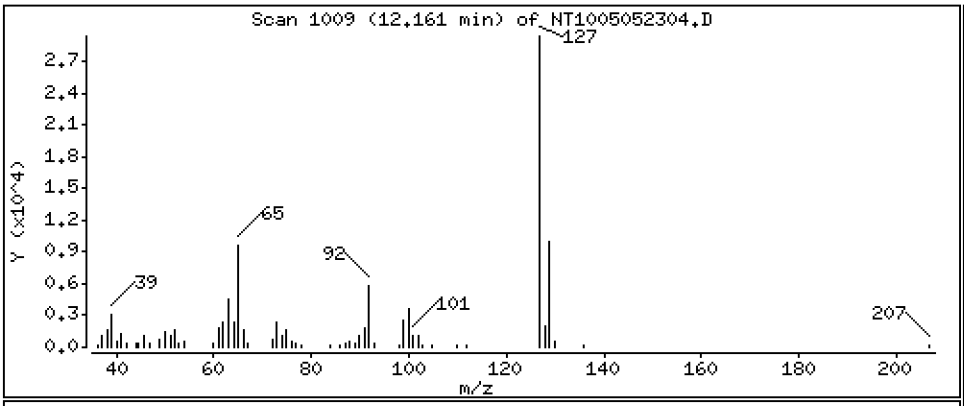
Operator: VTS

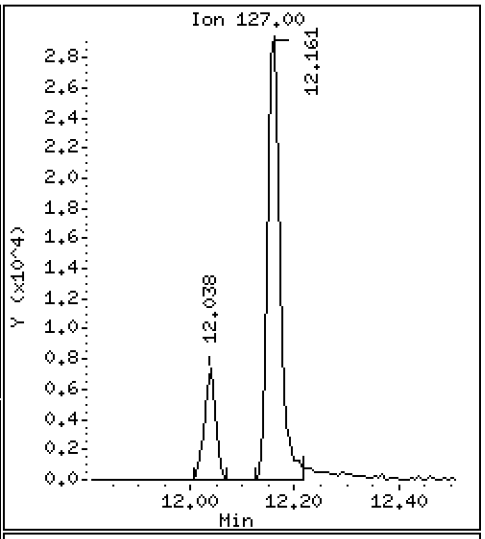
Column phase: ZB-5msi

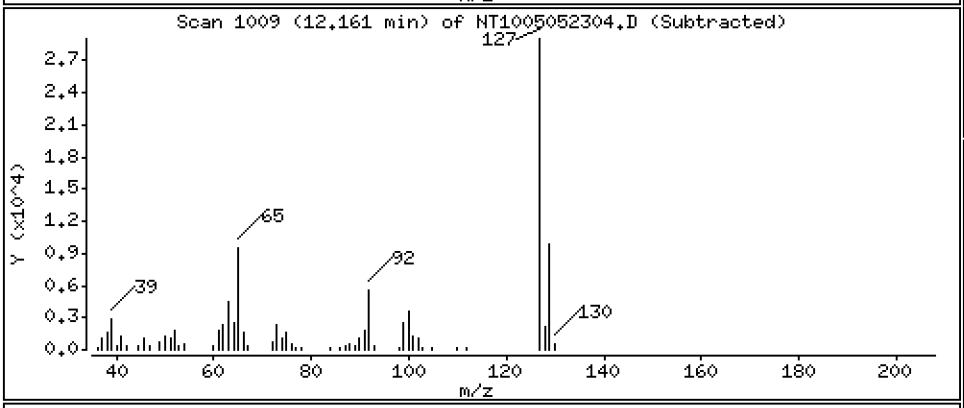
Column diameter: 0.25

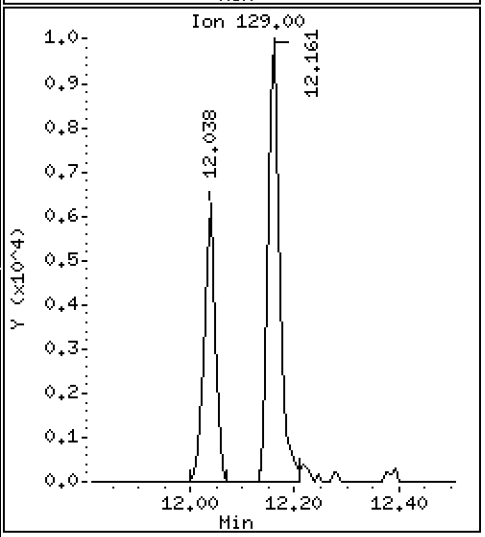
29 4-Chloroaniline

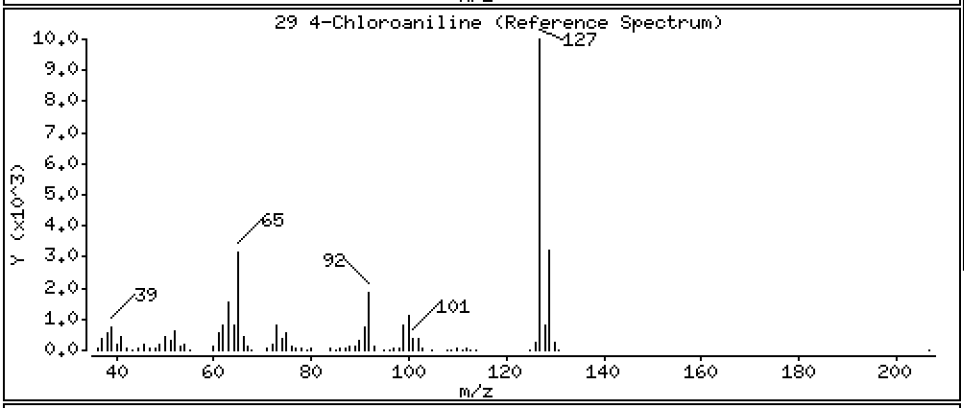
Concentration: 0.7710 ug/mL

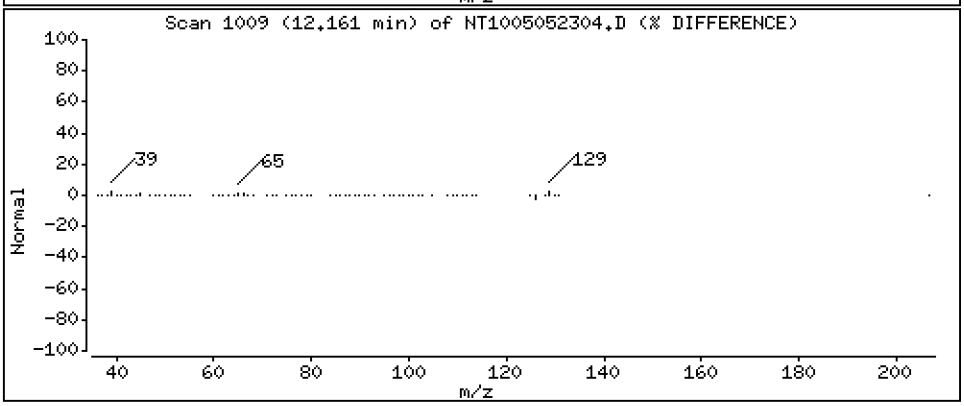












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

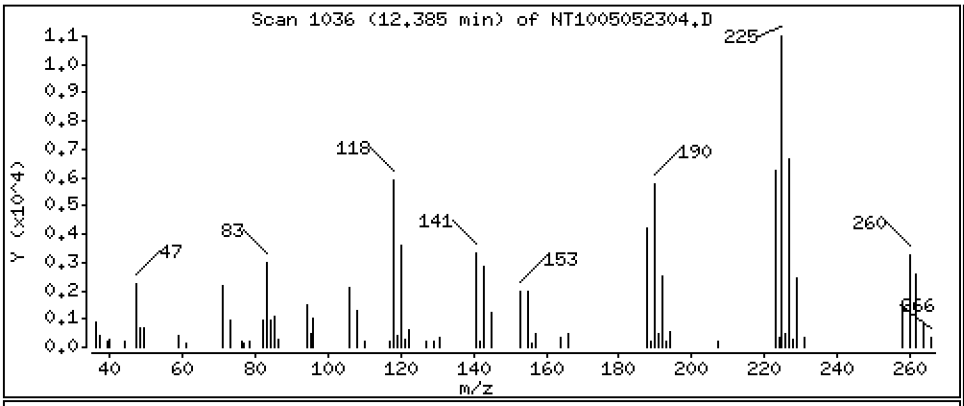
Operator: VTS

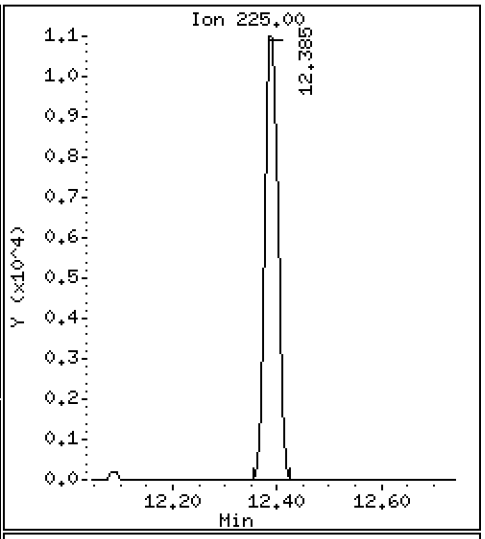
Column phase: ZB-5msi

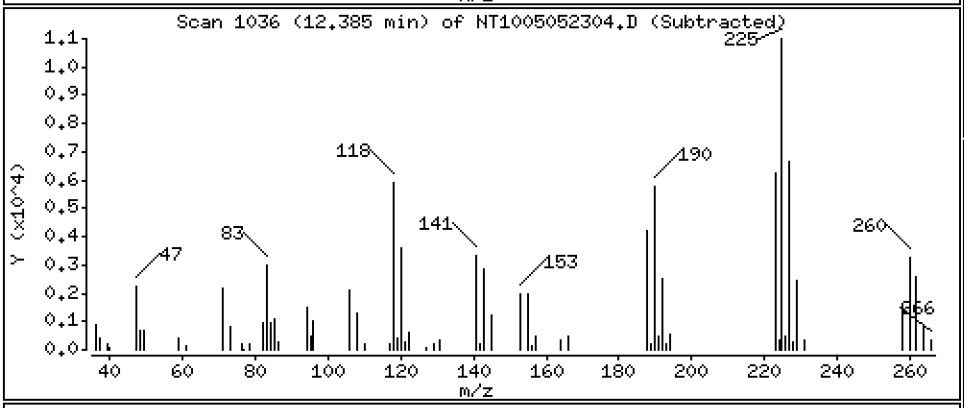
Column diameter: 0.25

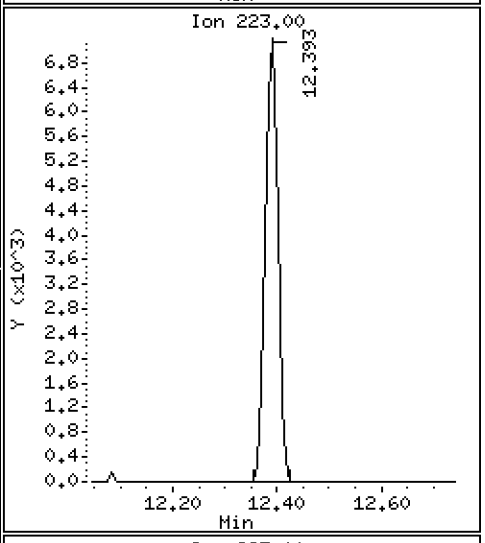
30 Hexachlorobutadiene

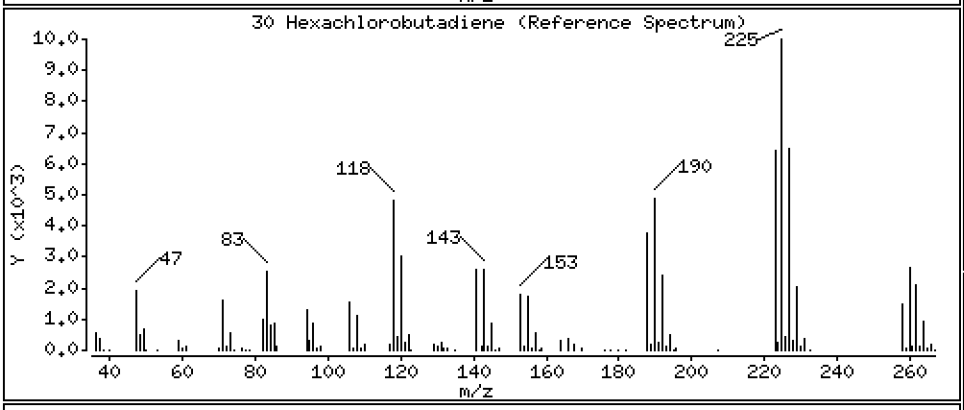
Concentration: 0.4248 ug/mL

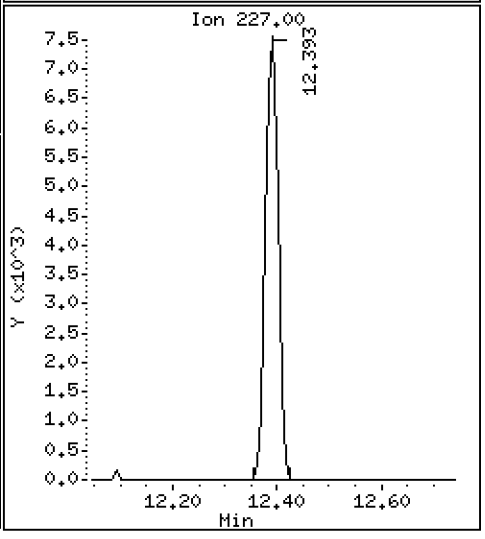


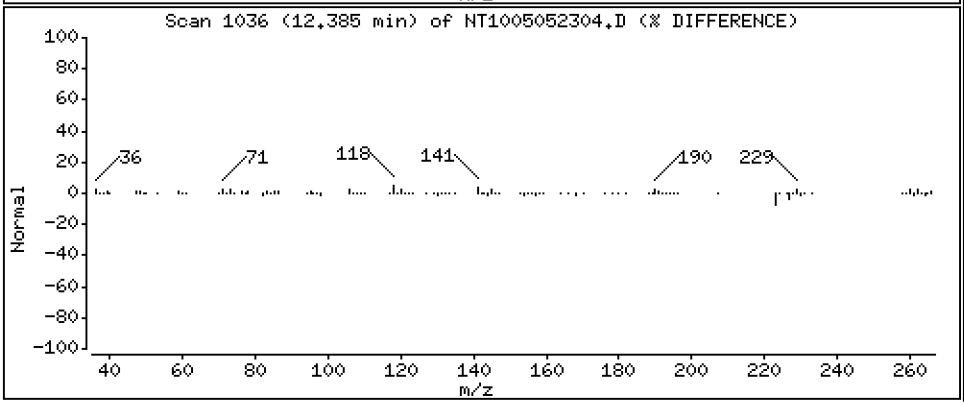












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

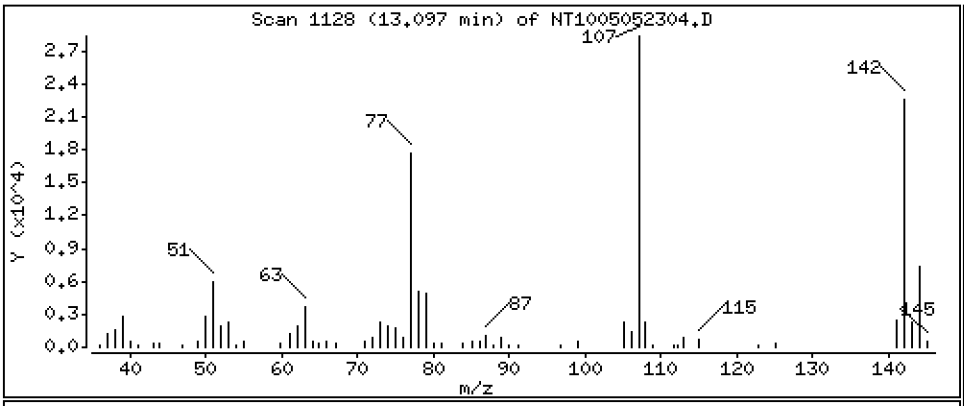
Operator: VTS

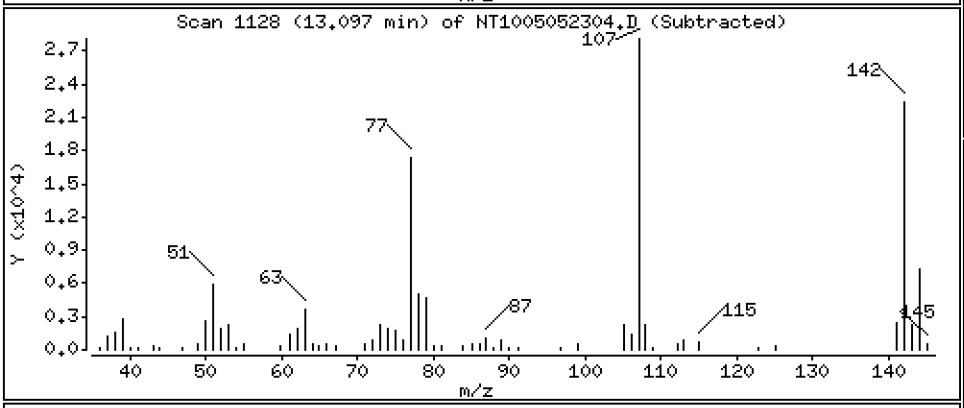
Column phase: ZB-5msi

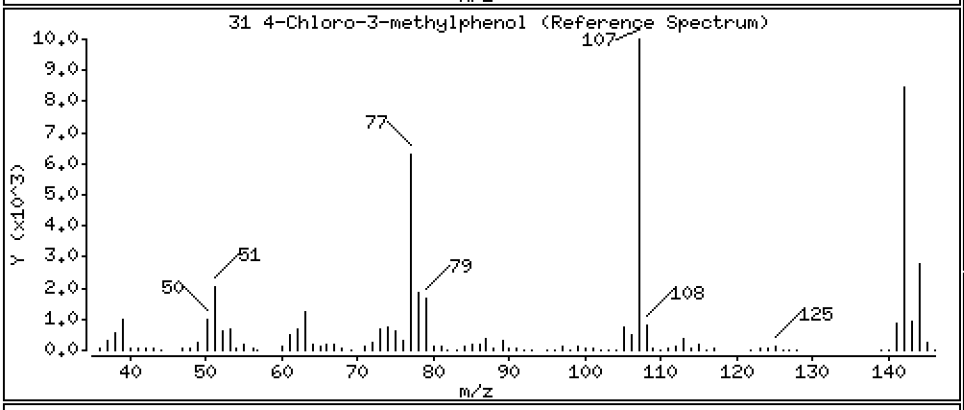
Column diameter: 0.25

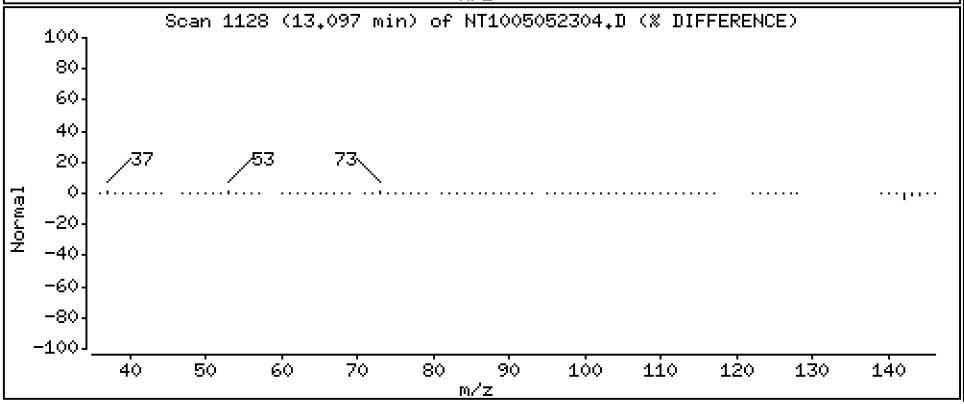
31 4-Chloro-3-methylphenol

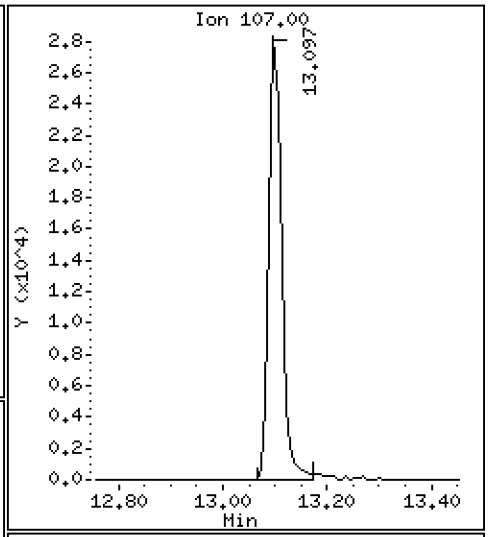
Concentration: 0.7661 ug/mL

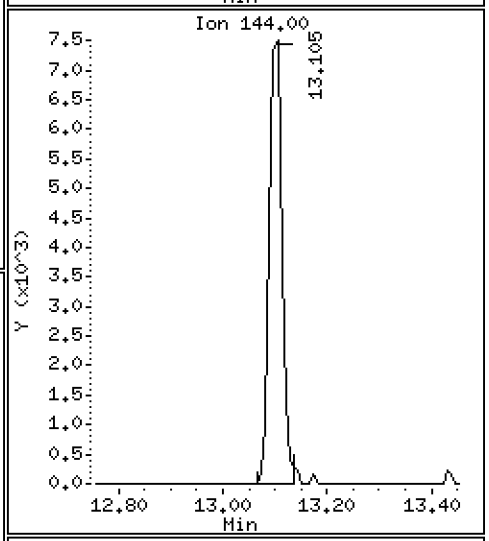


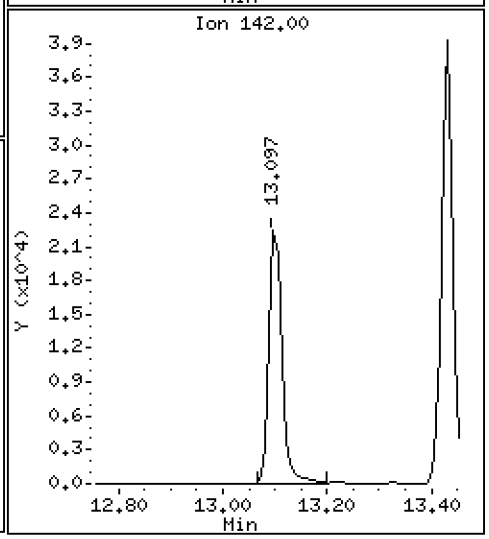












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

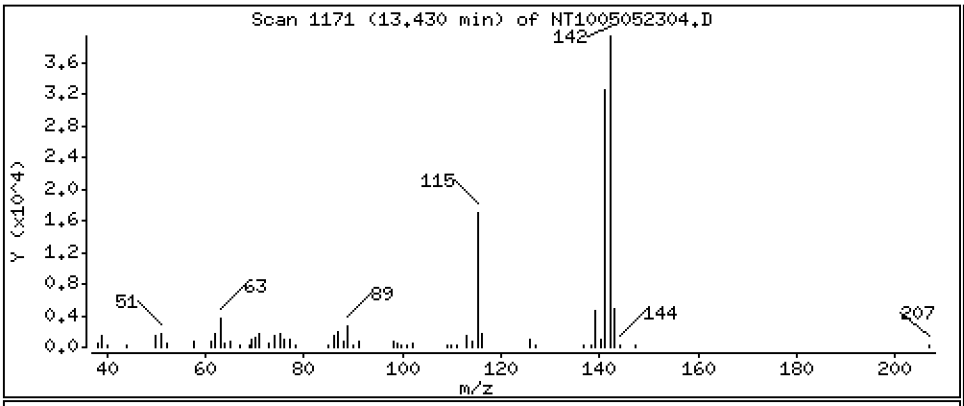
Operator: VTS

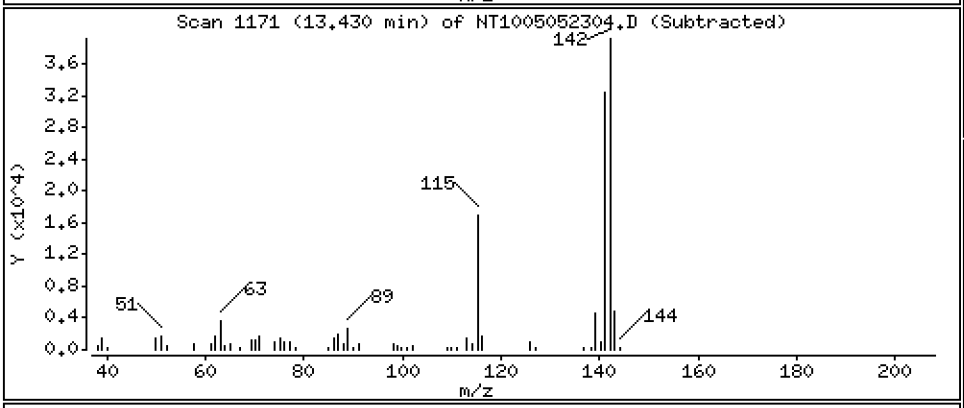
Column phase: ZB-5msi

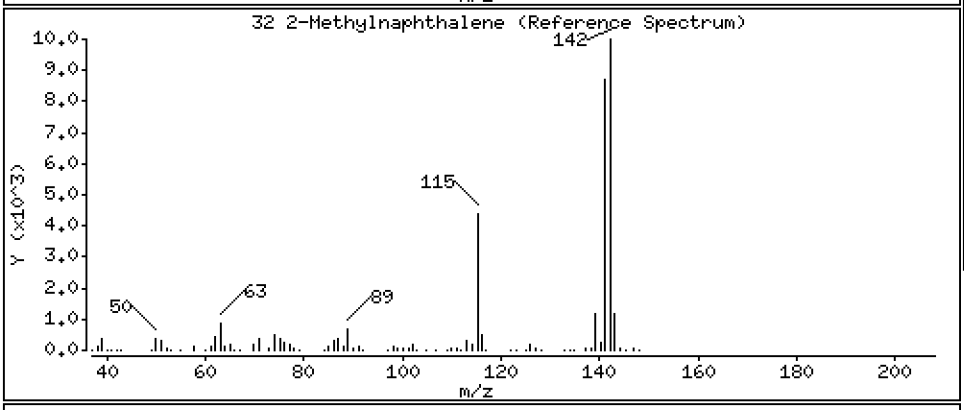
Column diameter: 0.25

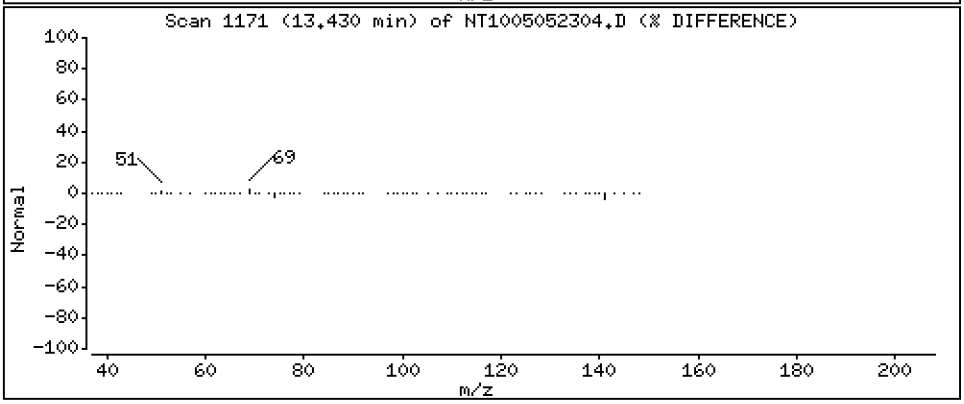
32 2-Methylnaphthalene

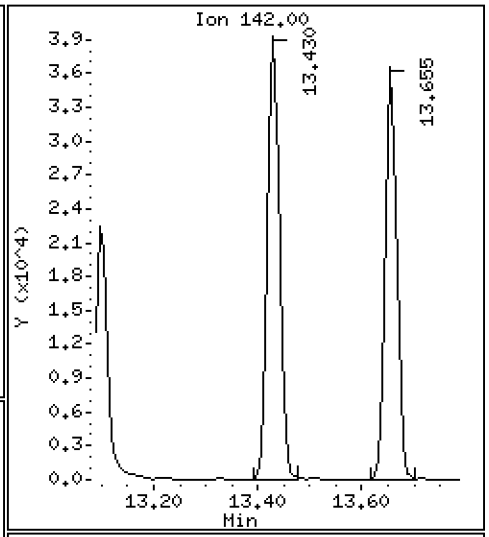
Concentration: 0.4328 ug/mL

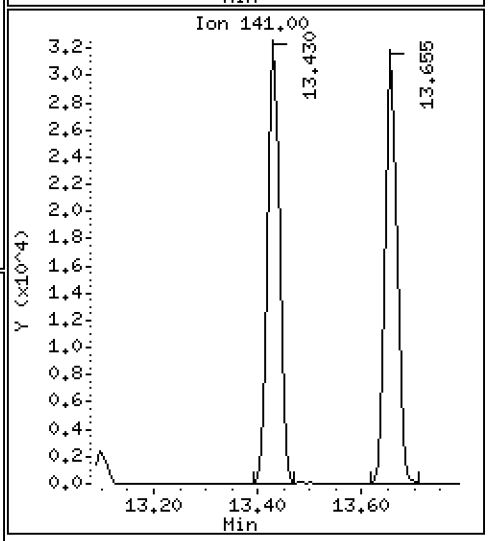












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

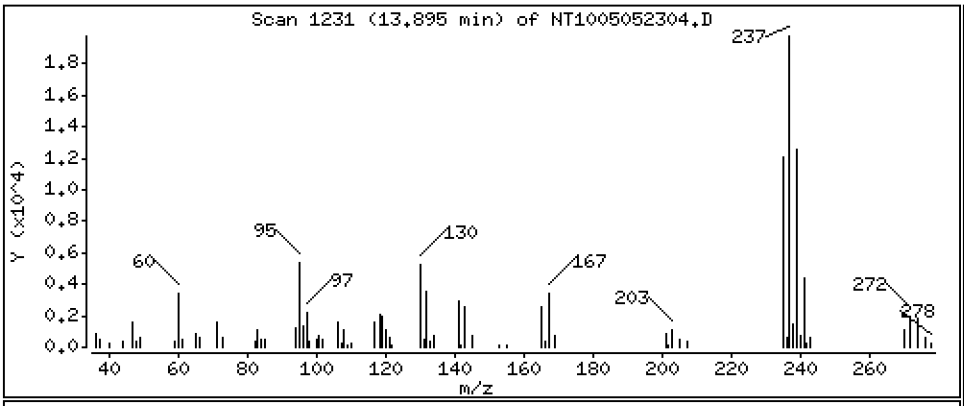
Operator: VTS

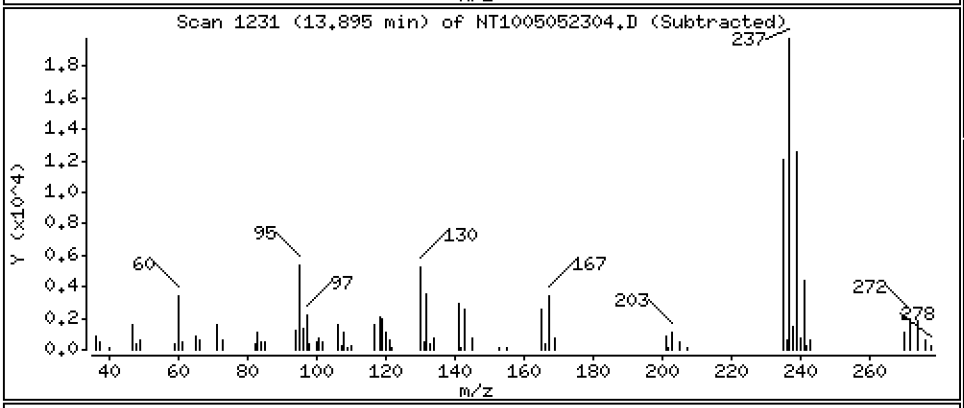
Column phase: ZB-5msi

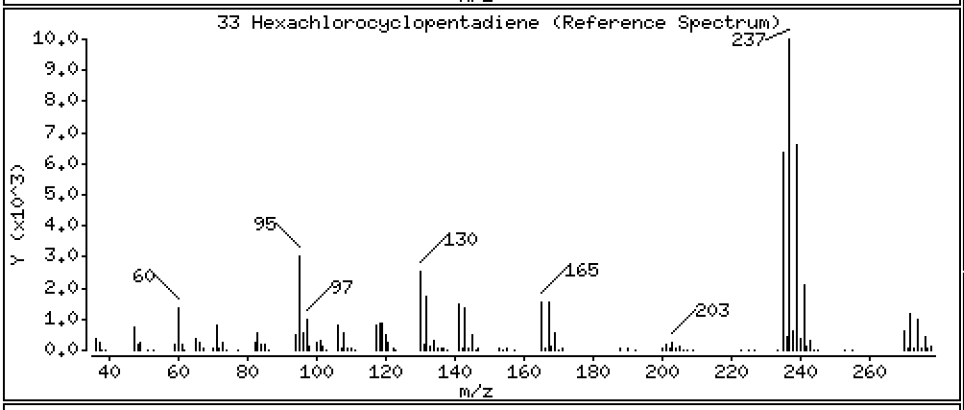
Column diameter: 0.25

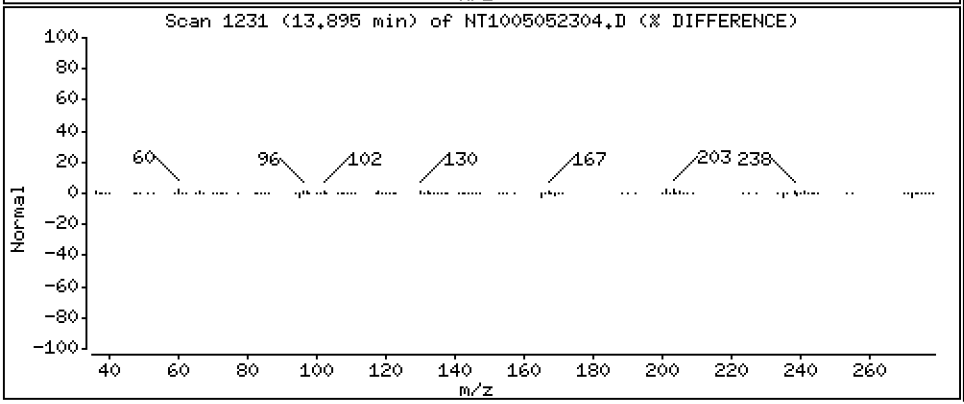
33 Hexachlorocyclopentadiene

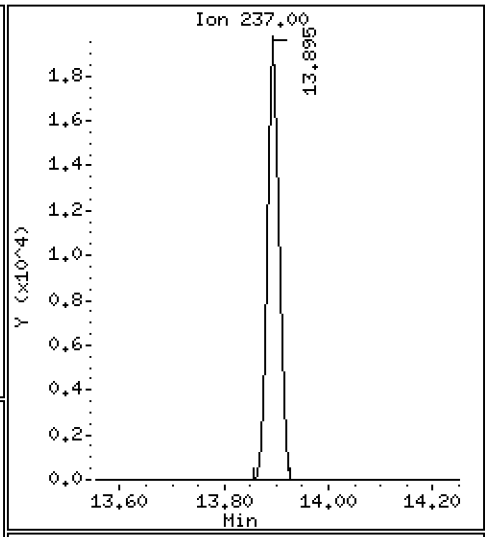
Concentration: 0.6605 ug/mL

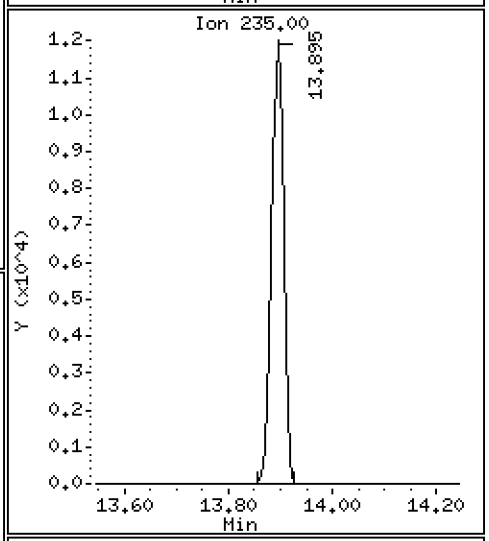


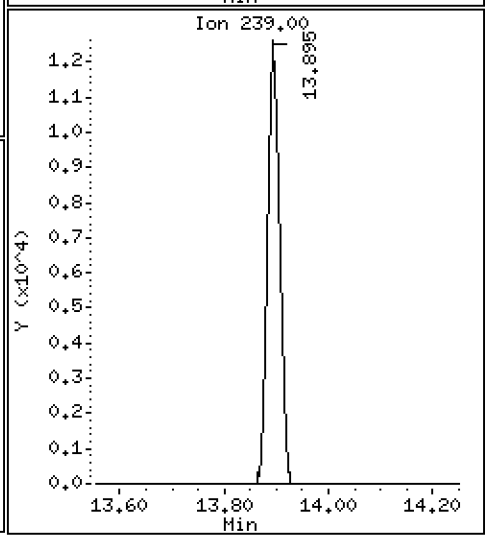












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

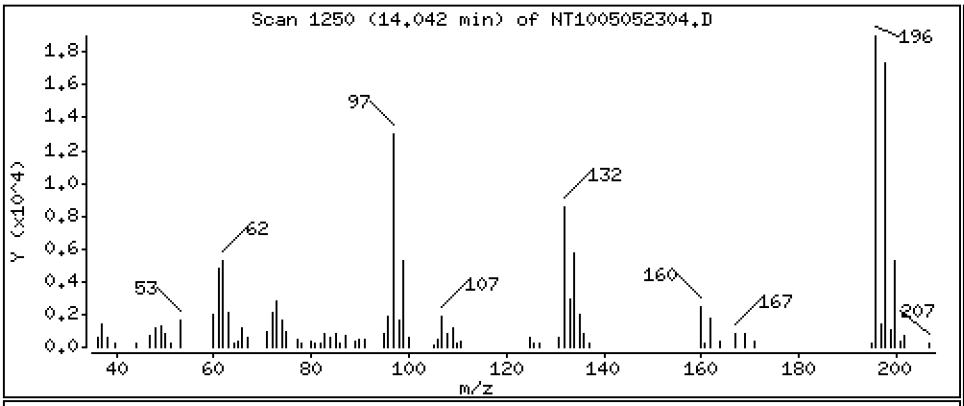
Operator: VTS

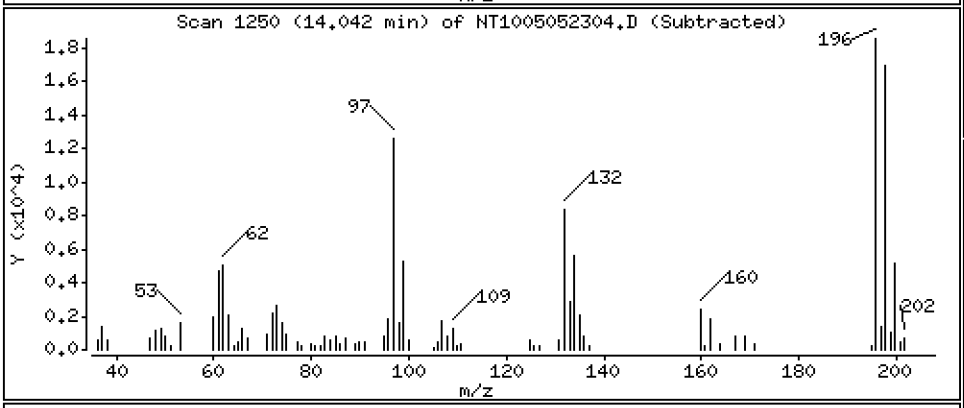
Column phase: ZB-5msi

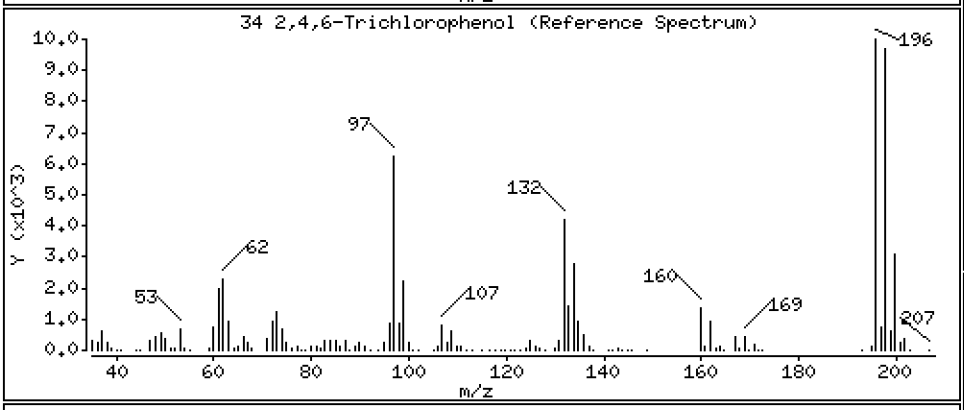
Column diameter: 0.25

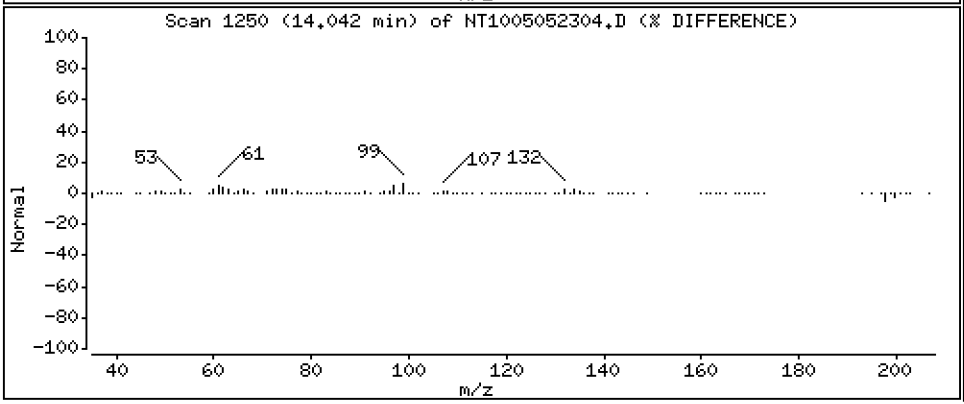
34 2,4,6-Trichlorophenol

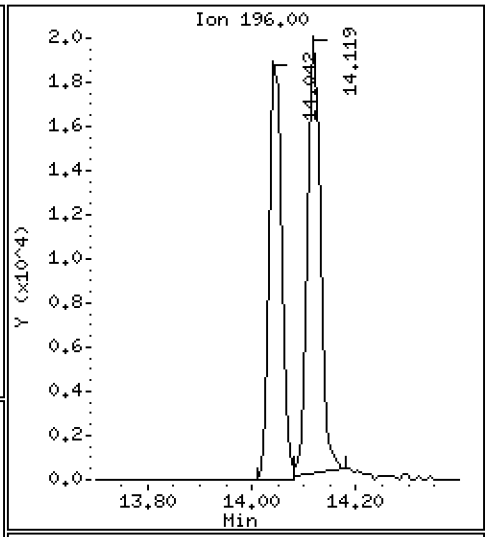
Concentration: 0.6756 ug/mL

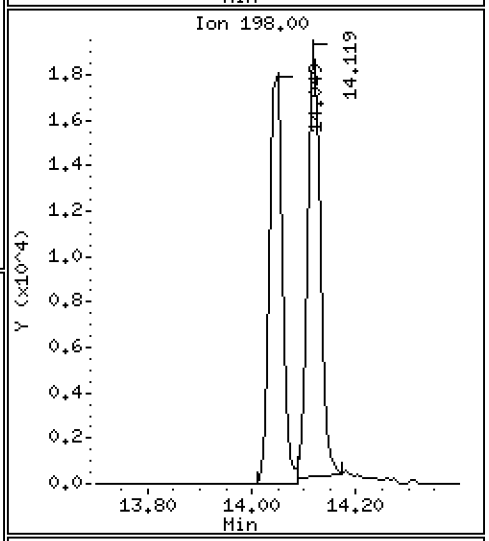


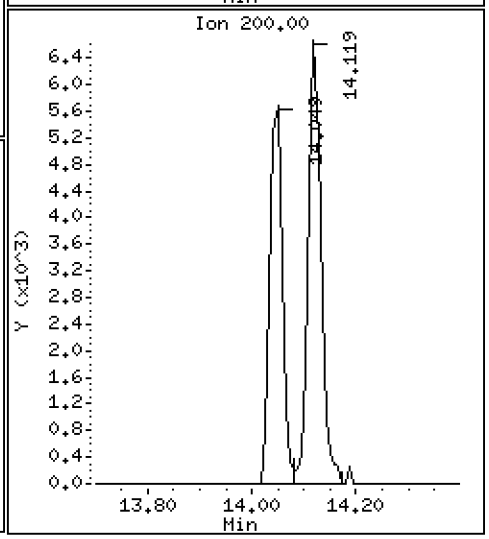












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

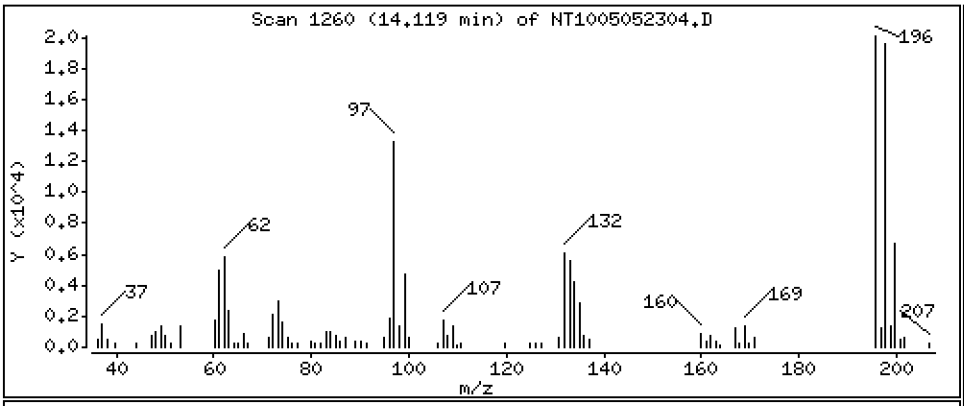
Operator: VTS

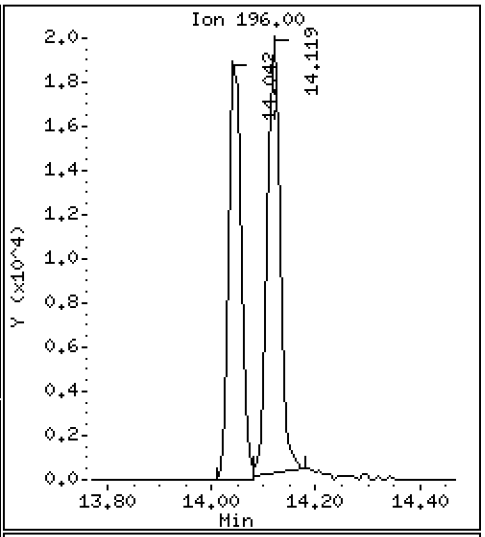
Column phase: ZB-5msi

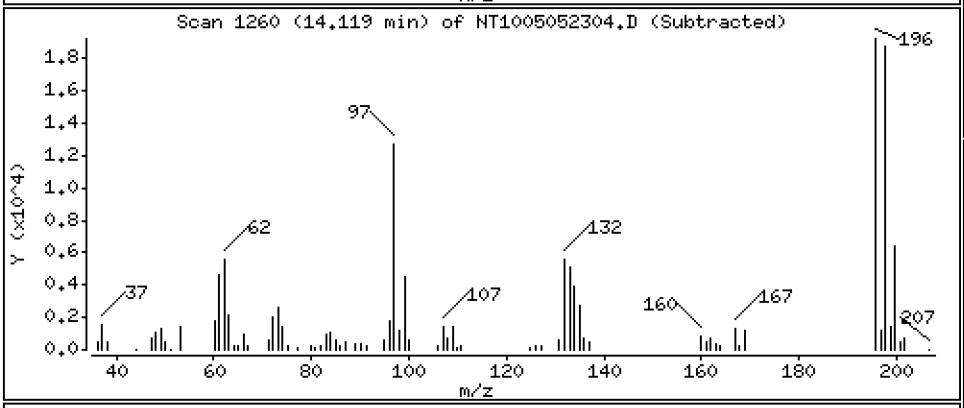
Column diameter: 0.25

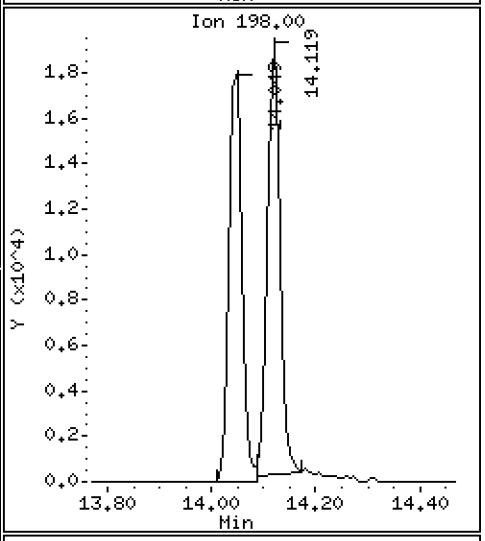
35 2,4,5-Trichlorophenol

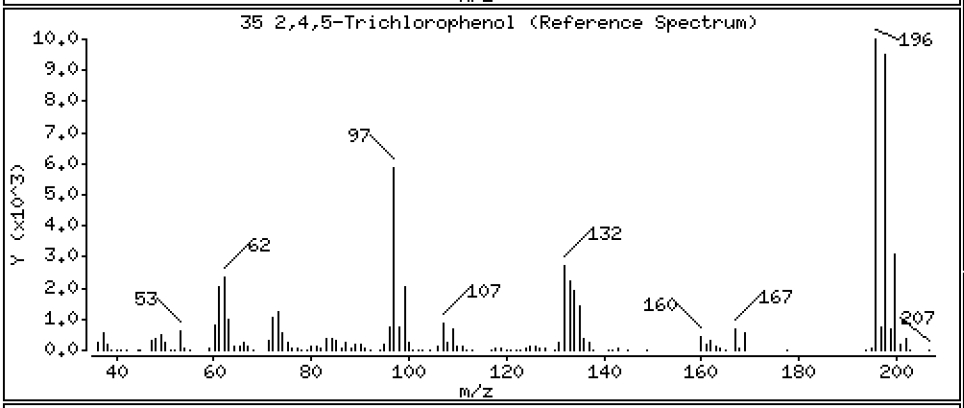
Concentration: 0.6656 ug/mL

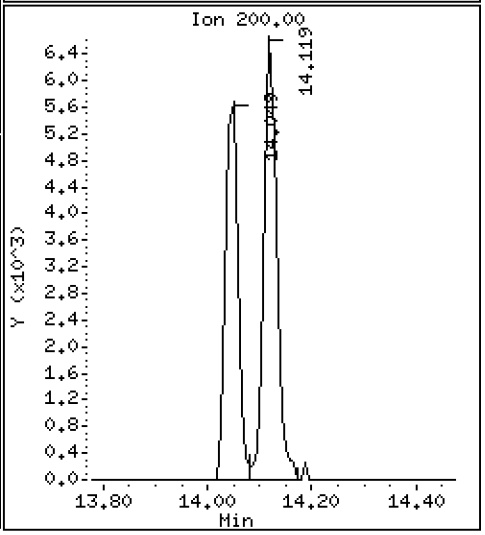


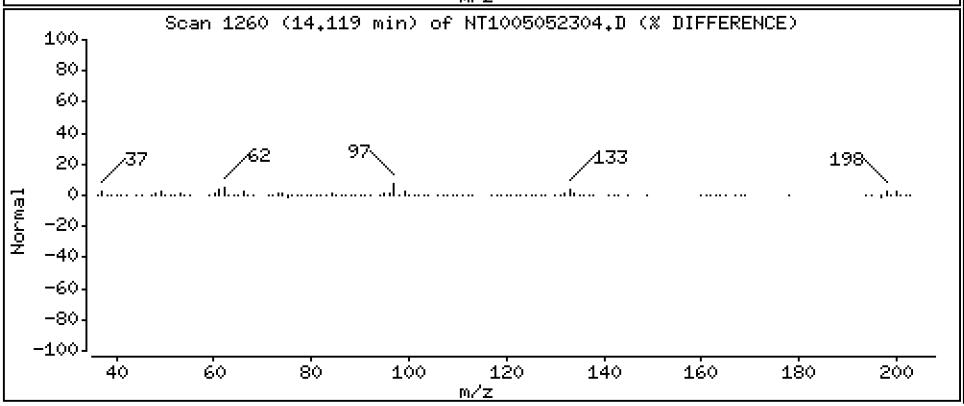












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

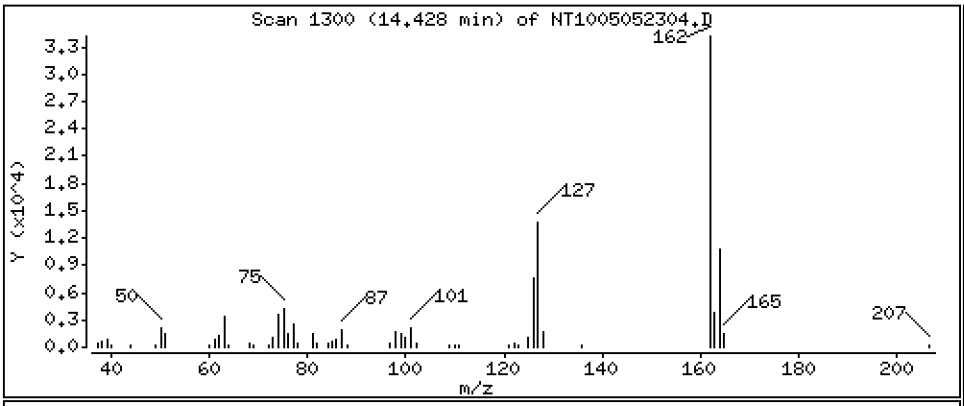
Operator: VTS

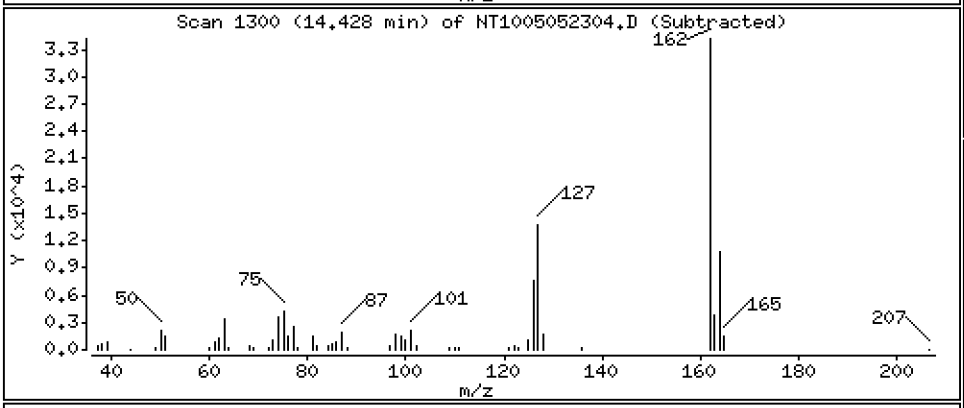
Column phase: ZB-5msi

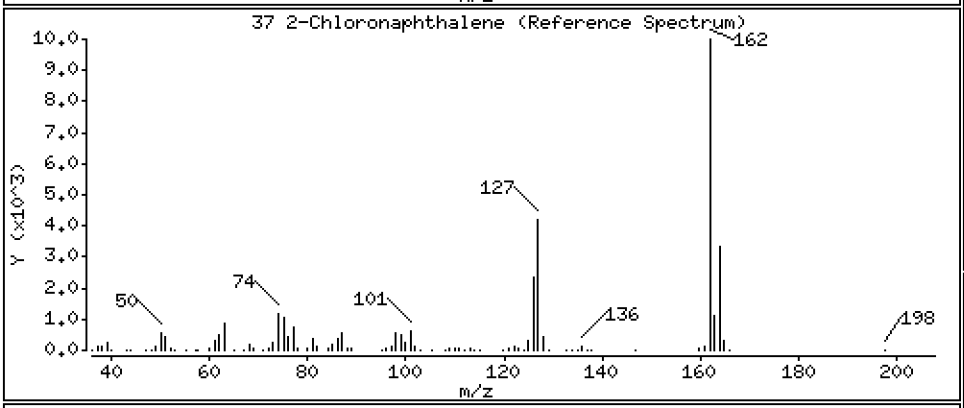
Column diameter: 0.25

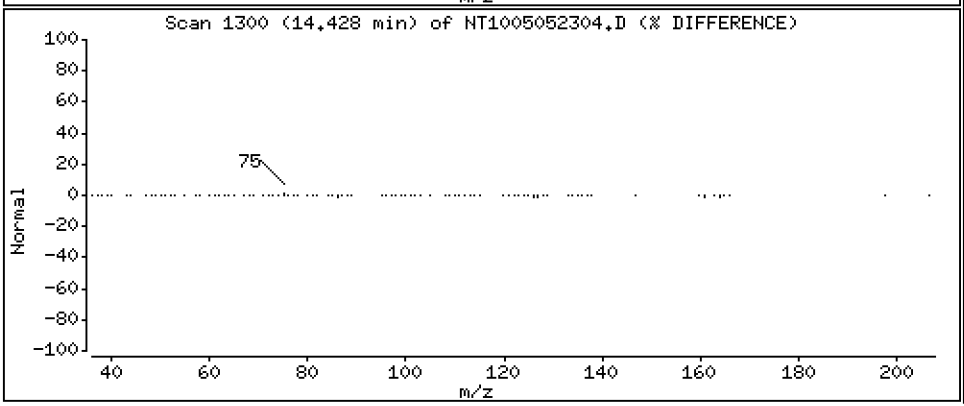
37 2-Chloronaphthalene

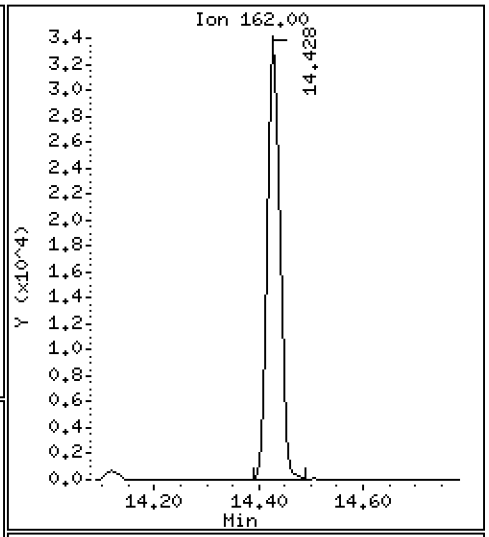
Concentration: 0.4515 ug/mL

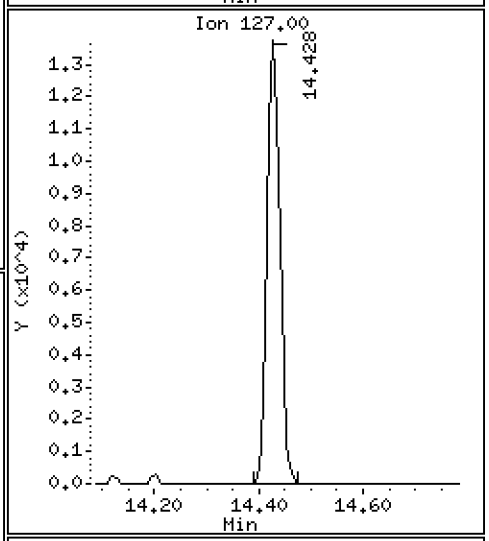


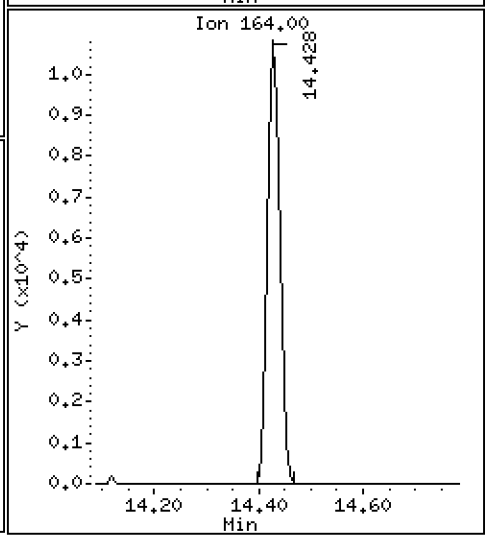












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

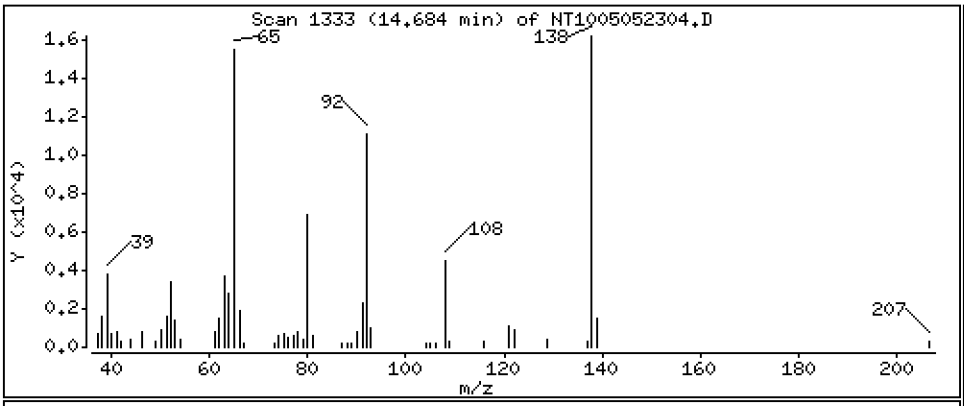
Operator: VTS

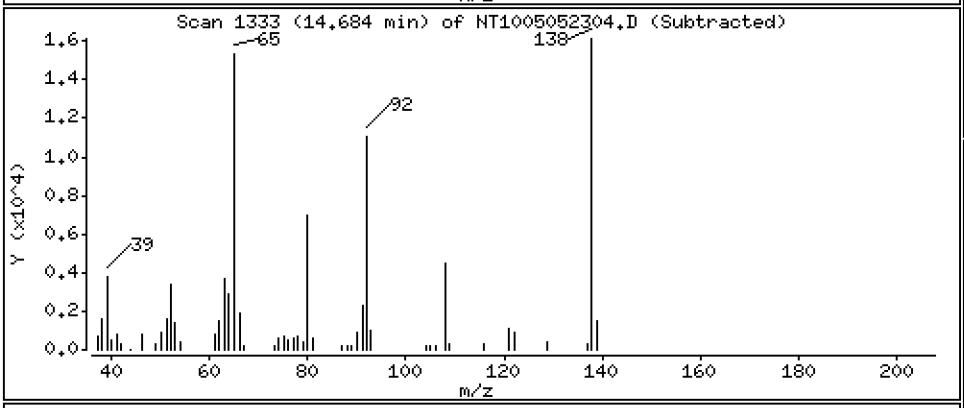
Column phase: ZB-5msi

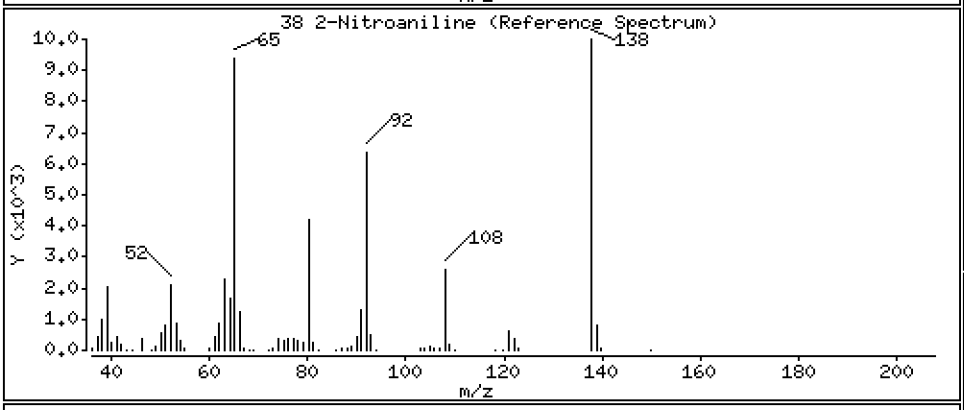
Column diameter: 0.25

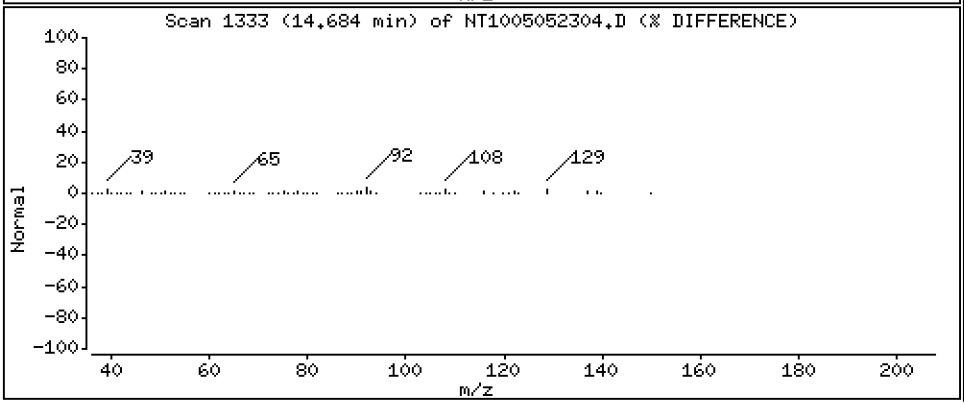
38 2-Nitroaniline

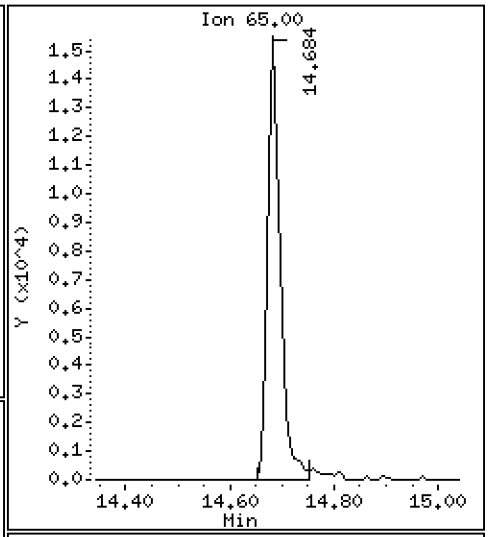
Concentration: 0.7100 ug/mL

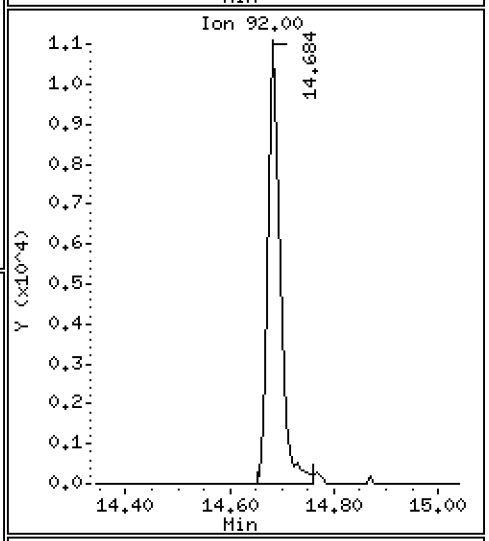


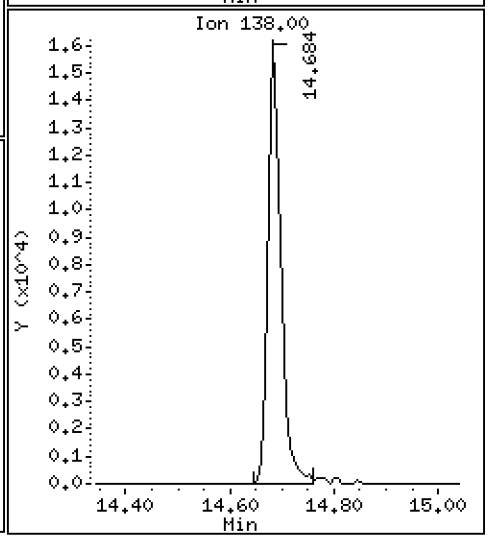












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

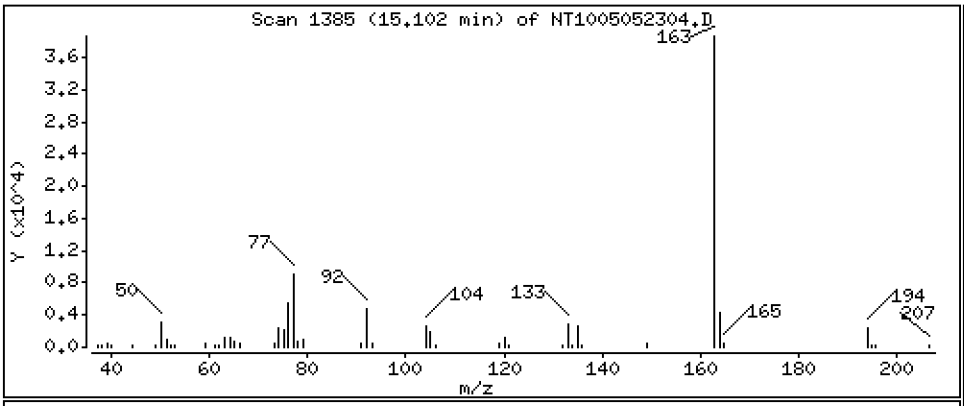
Operator: VTS

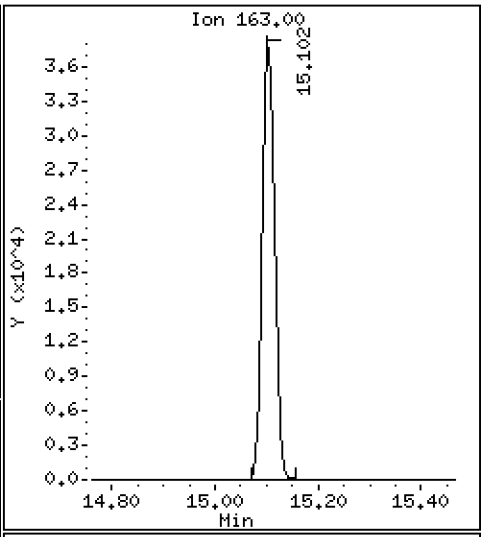
Column phase: ZB-5msi

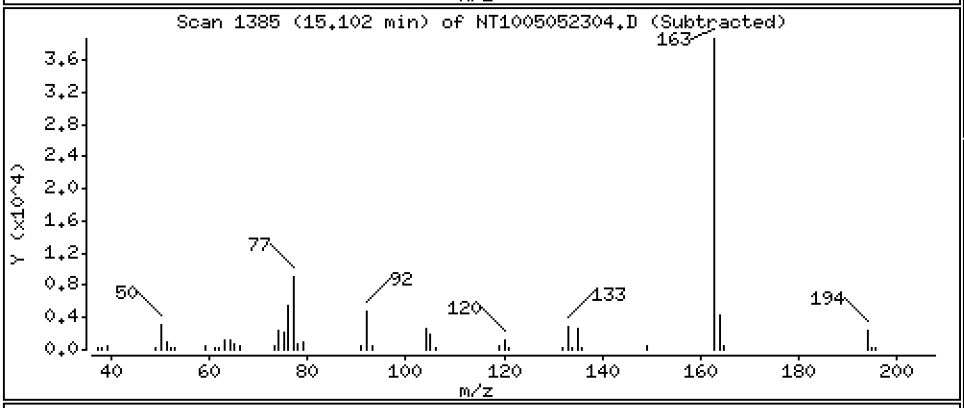
Column diameter: 0.25

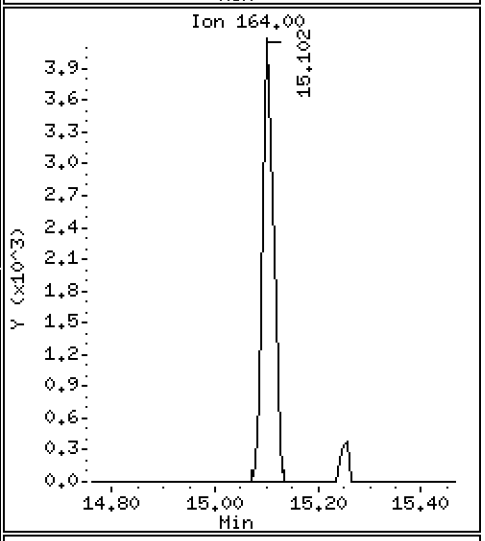
39 Dimethylphthalate

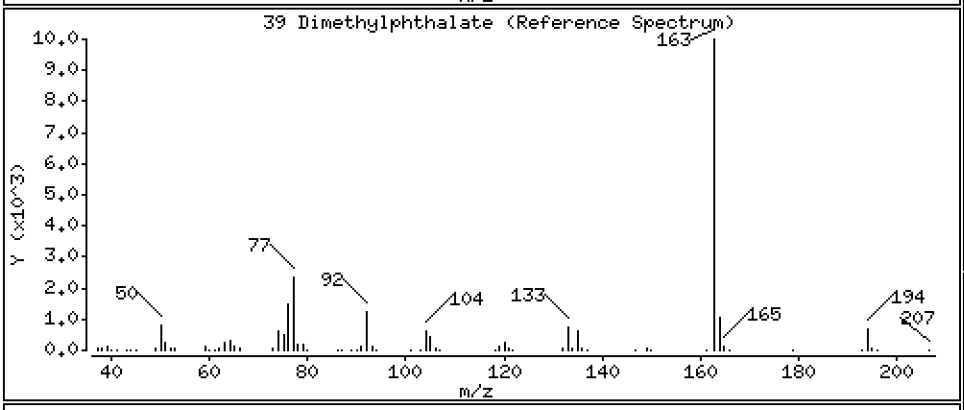
Concentration: 0.4375 ug/mL

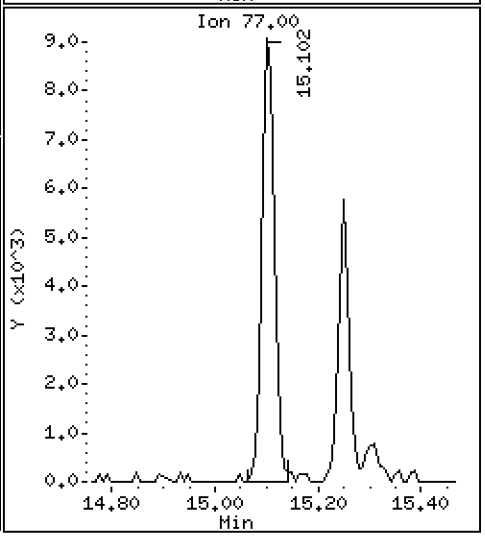


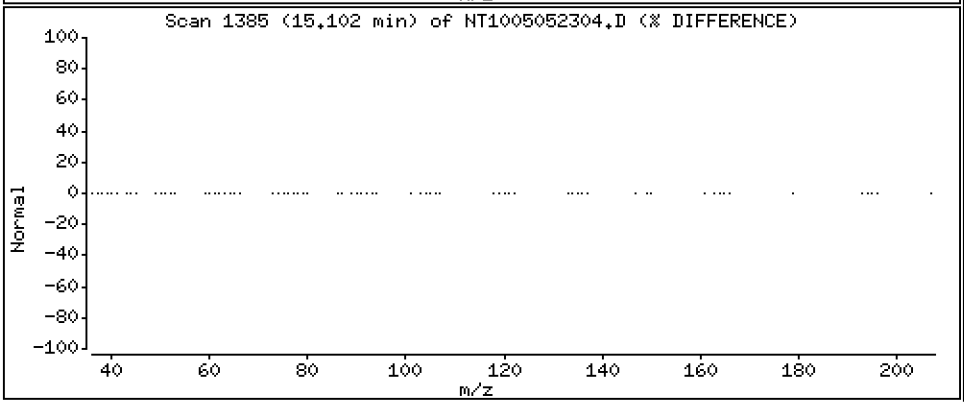












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

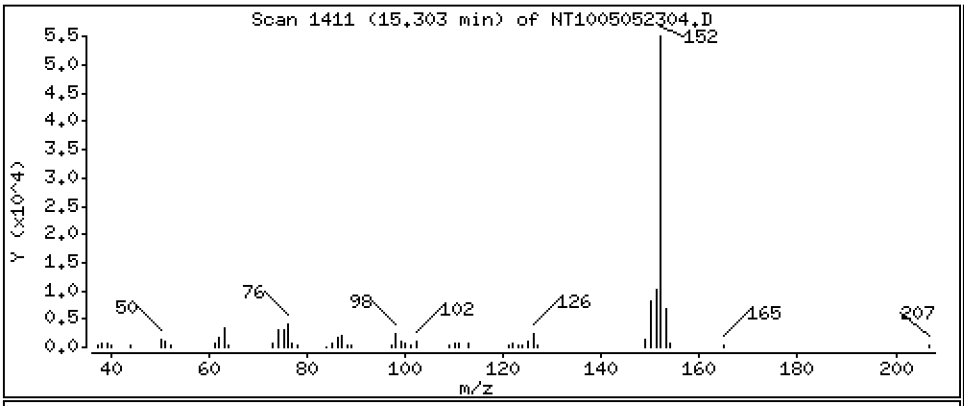
Operator: VTS

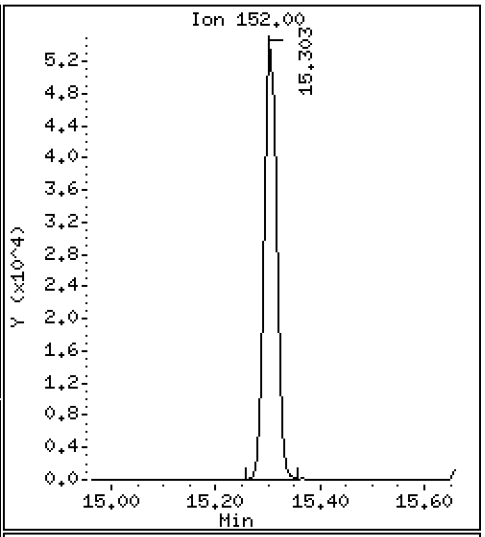
Column phase: ZB-5msi

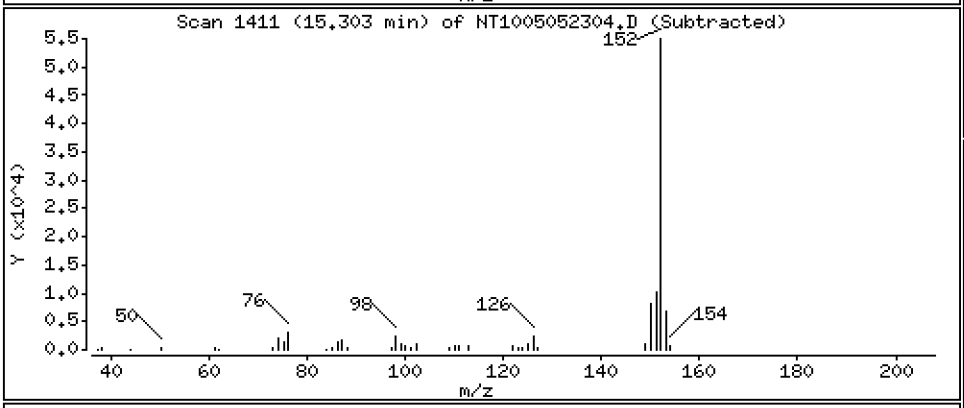
Column diameter: 0.25

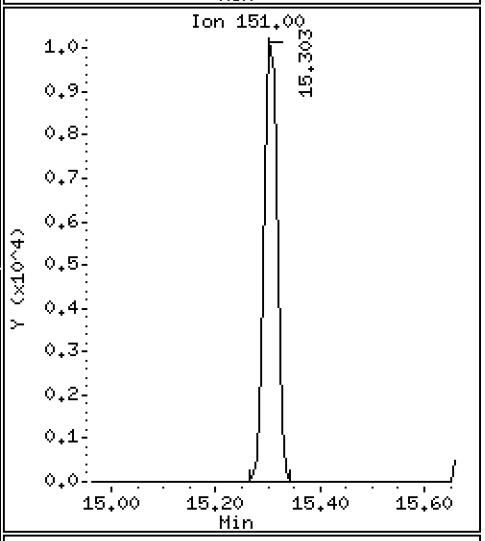
40 Acenaphthylene

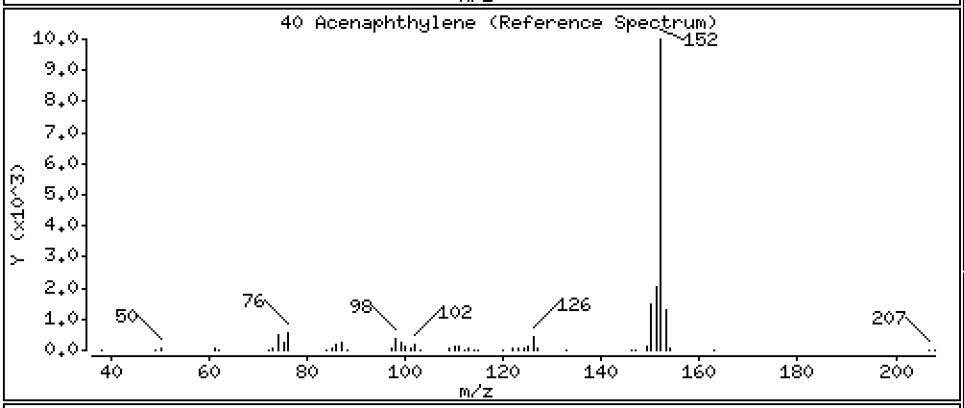
Concentration: 0.4419 ug/mL

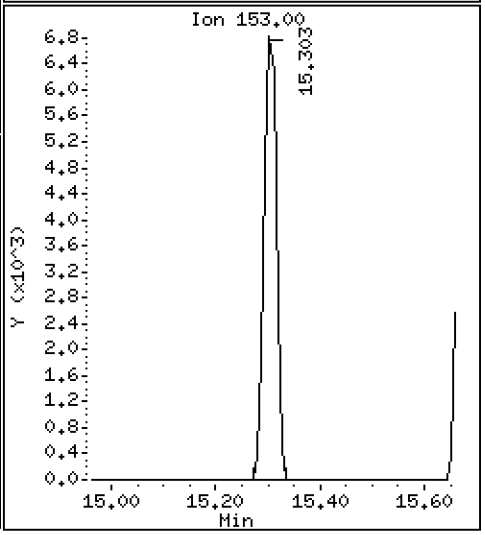


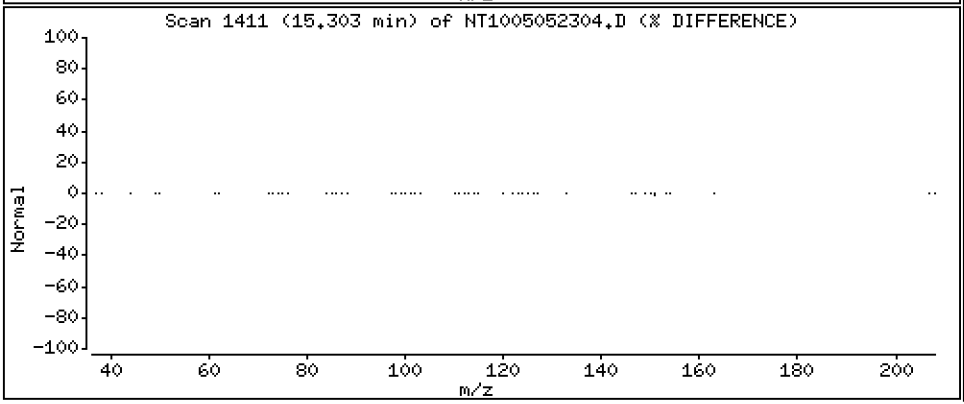












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

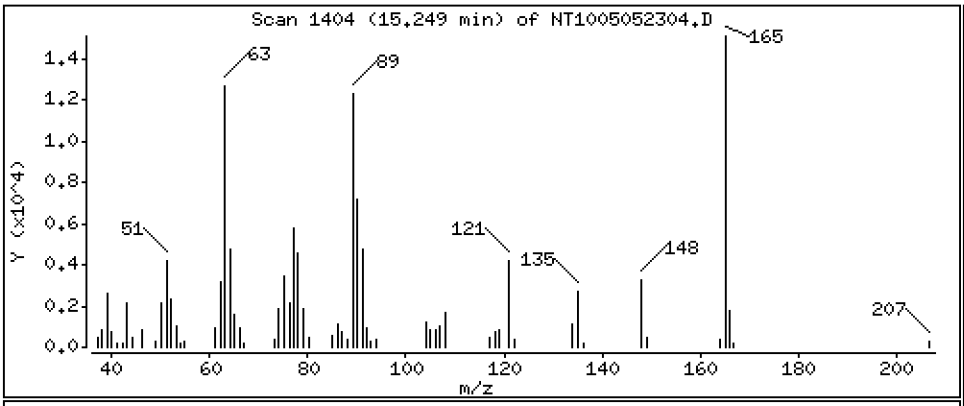
Operator: VTS

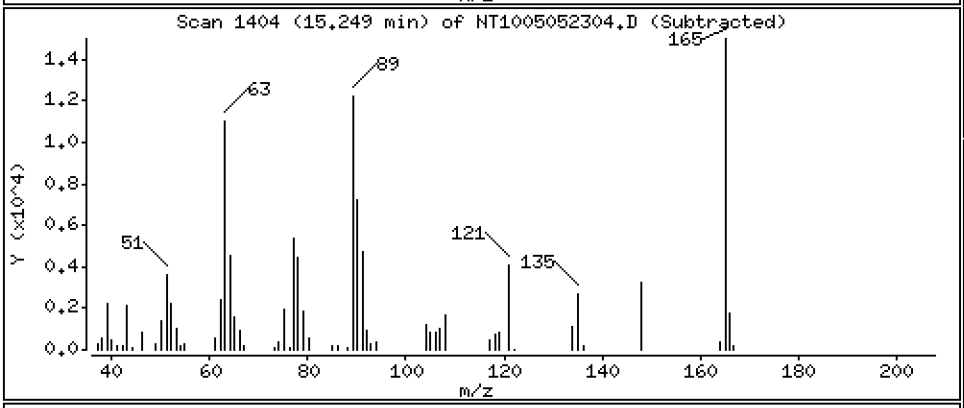
Column phase: ZB-5msi

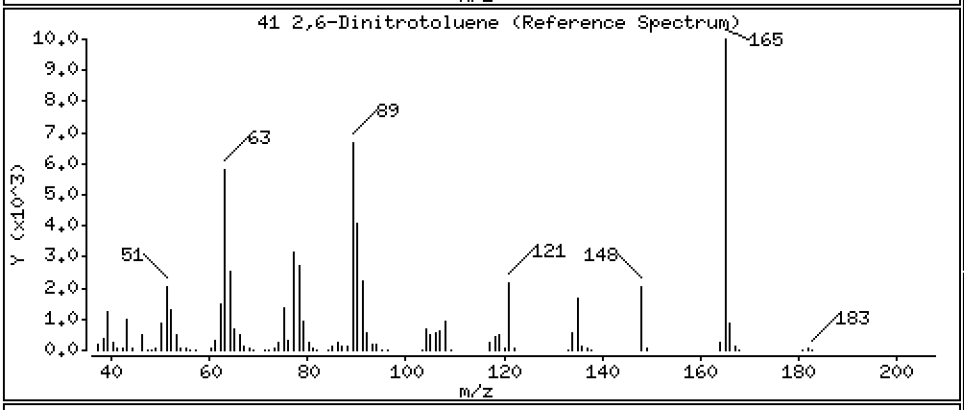
Column diameter: 0.25

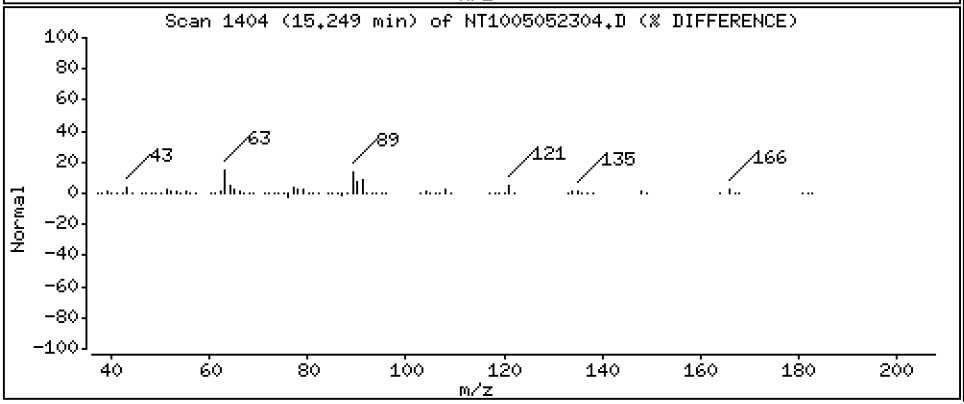
41 2,6-Dinitrotoluene

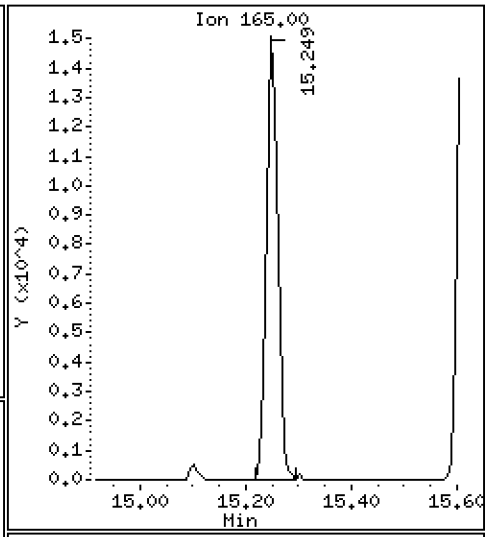
Concentration: 0.7089 ug/mL

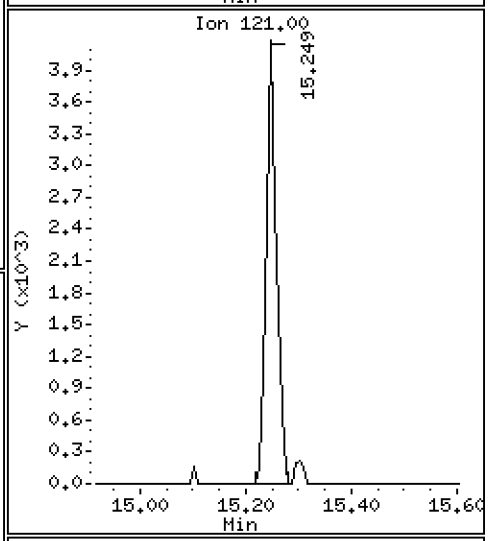


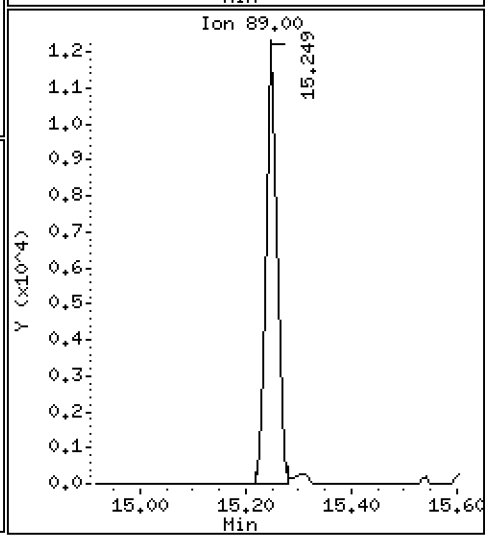












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

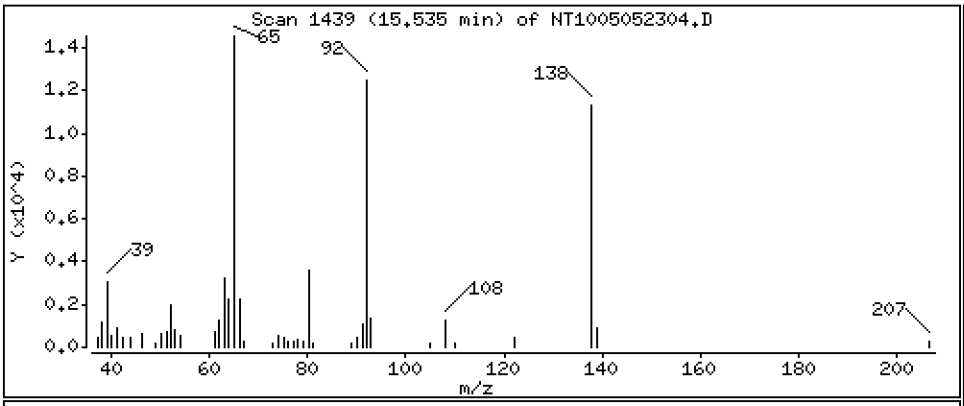
Operator: VTS

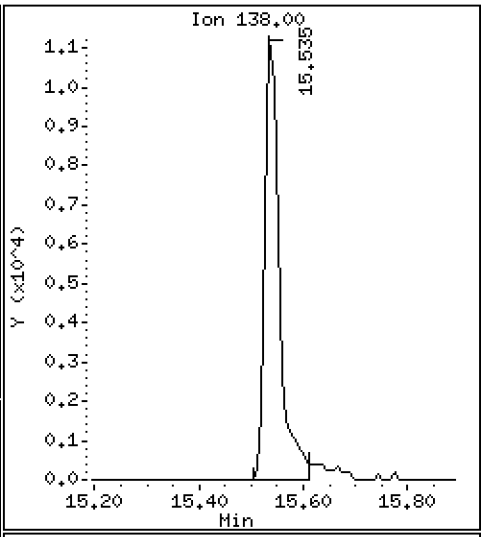
Column phase: ZB-5msi

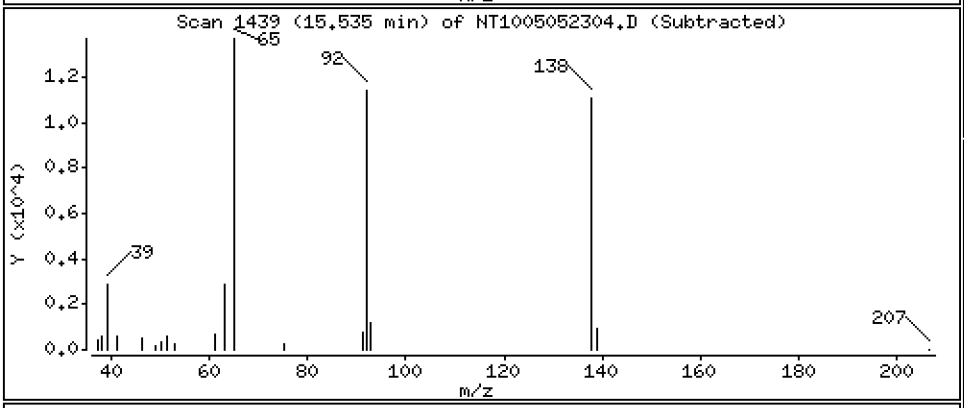
Column diameter: 0.25

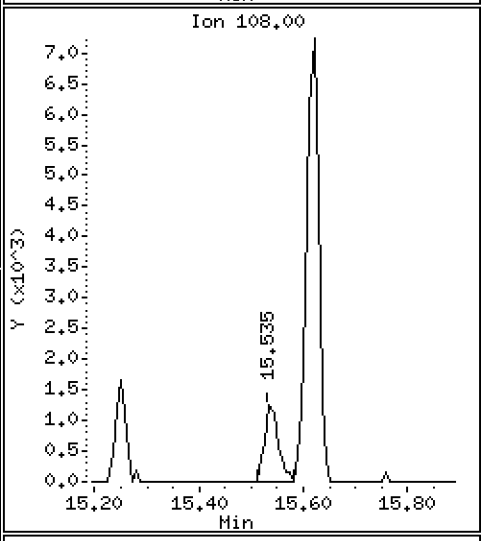
43 3-Nitroaniline

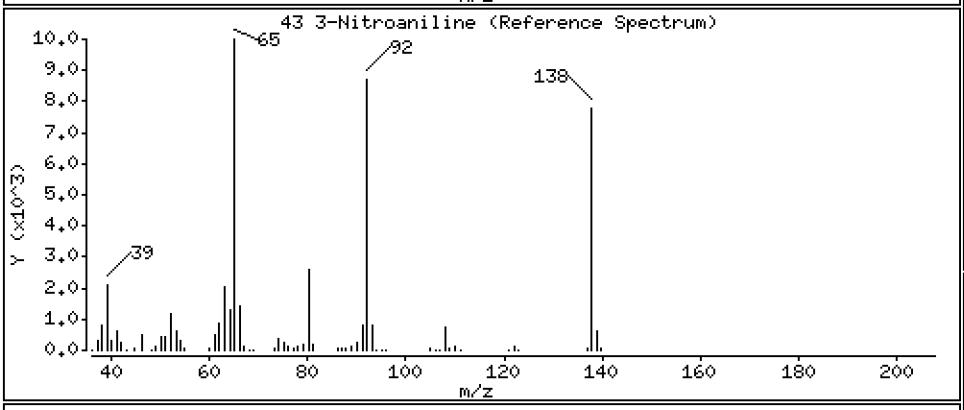
Concentration: 0.6810 ug/mL

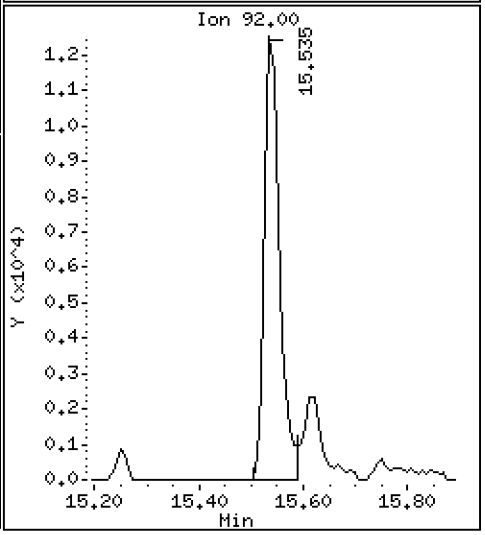


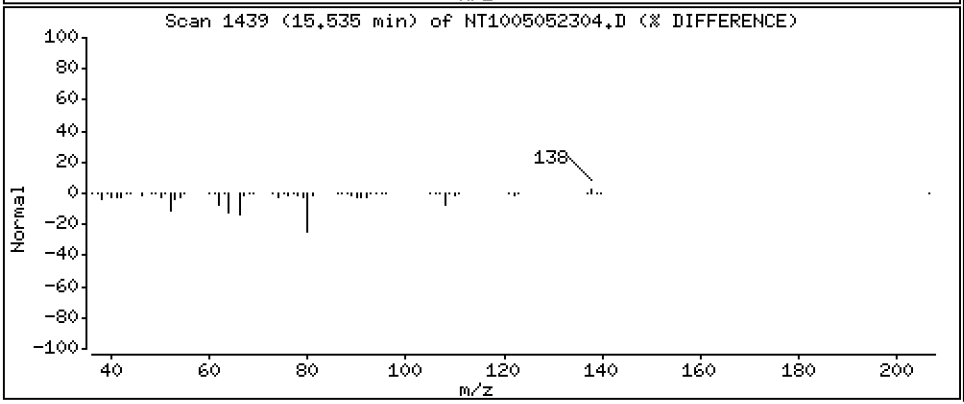












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

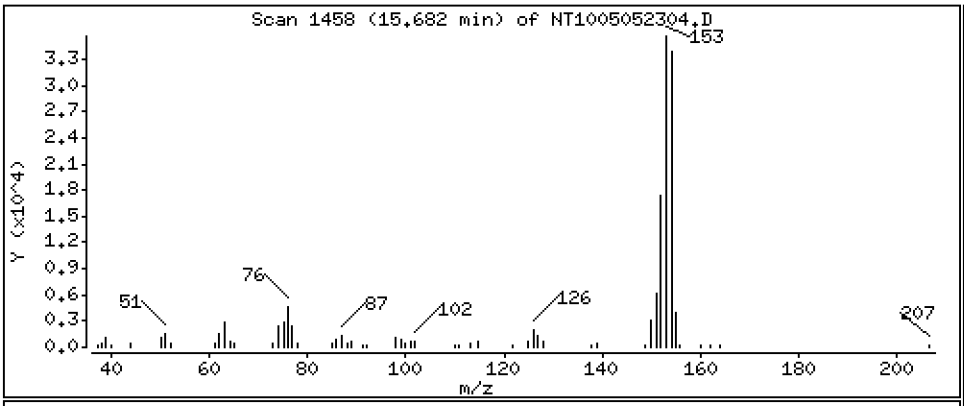
Operator: VTS

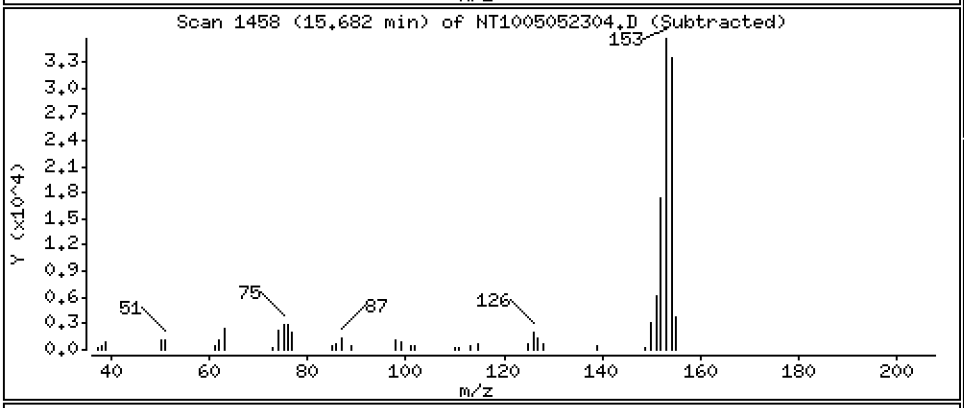
Column phase: ZB-5msi

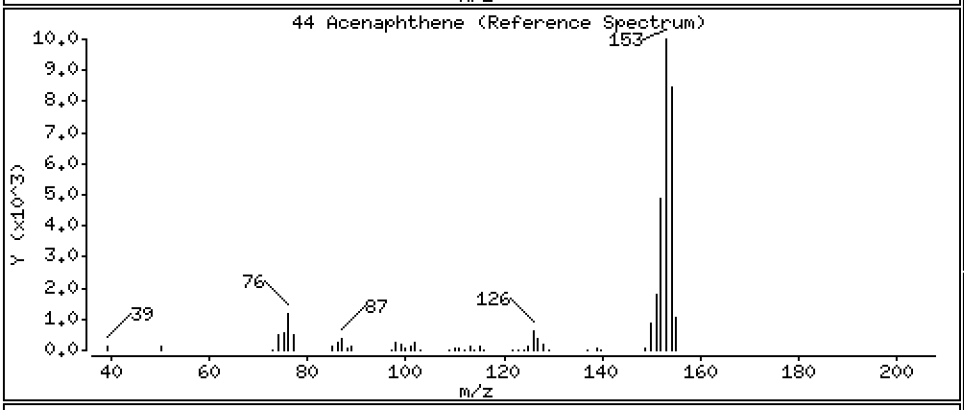
Column diameter: 0.25

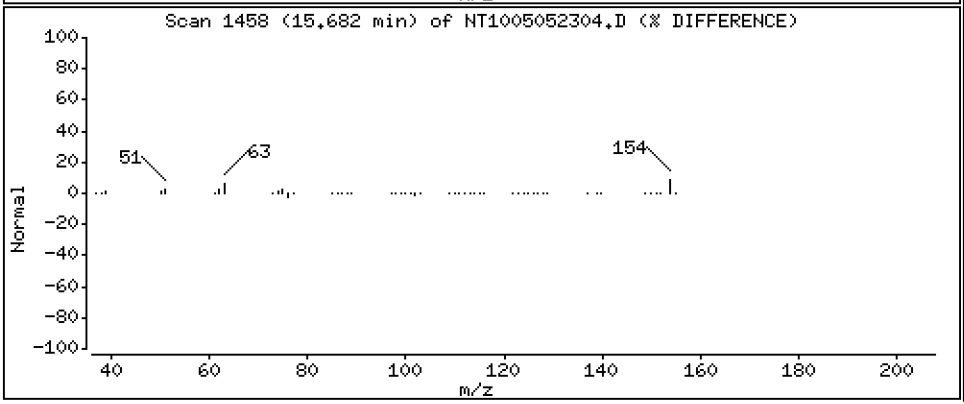
44 Acenaphthene

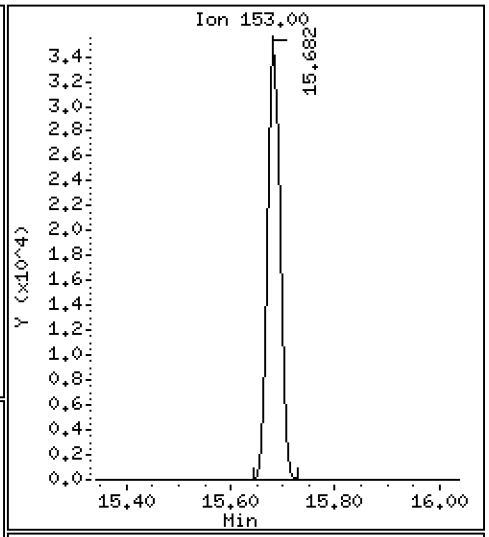
Concentration: 0.4497 ug/mL

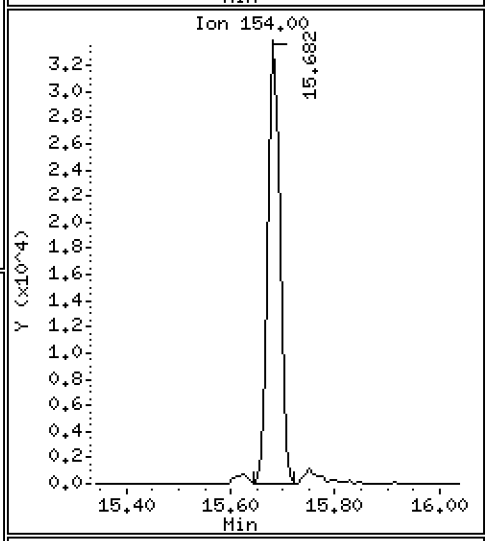


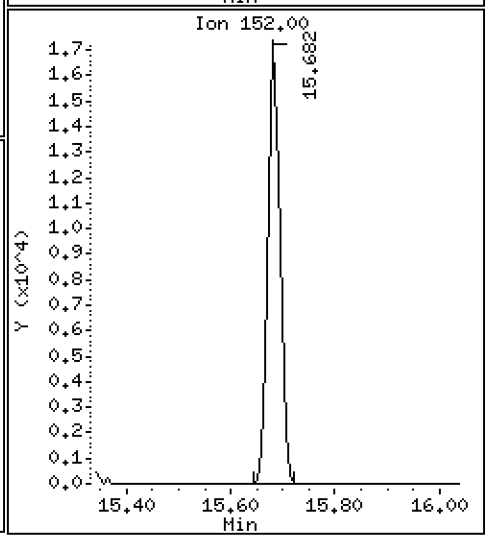












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

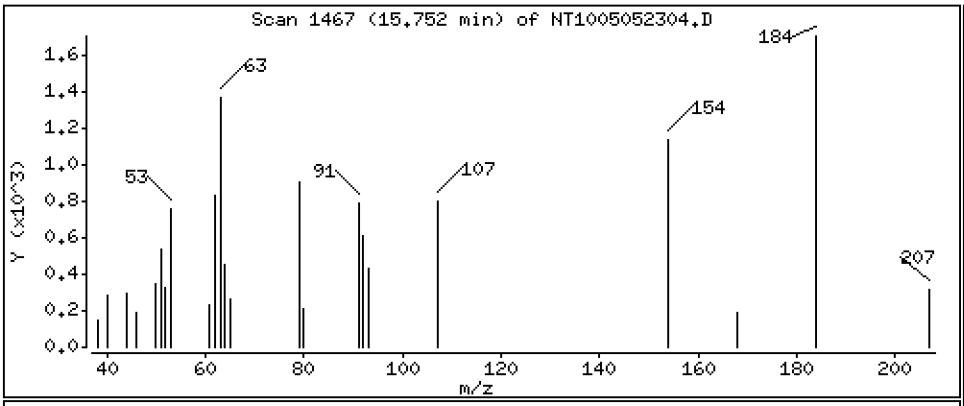
Operator: VTS

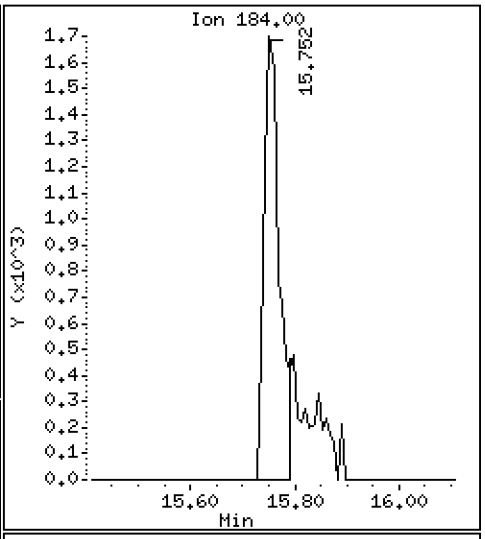
Column phase: ZB-5msi

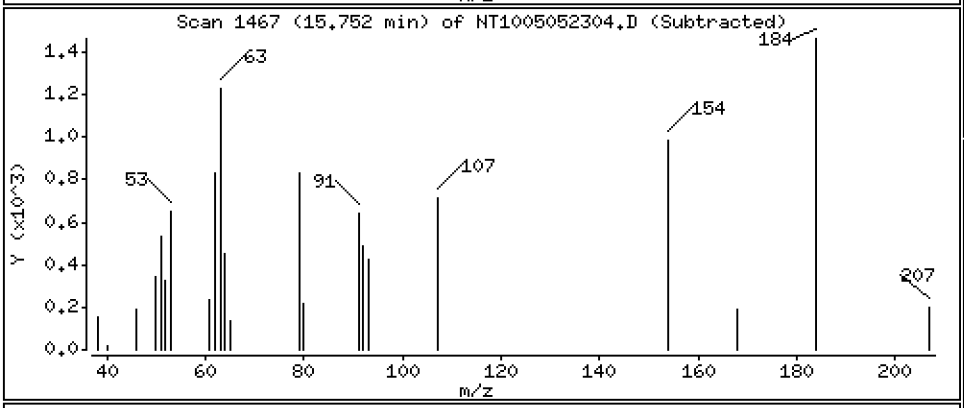
Column diameter: 0.25

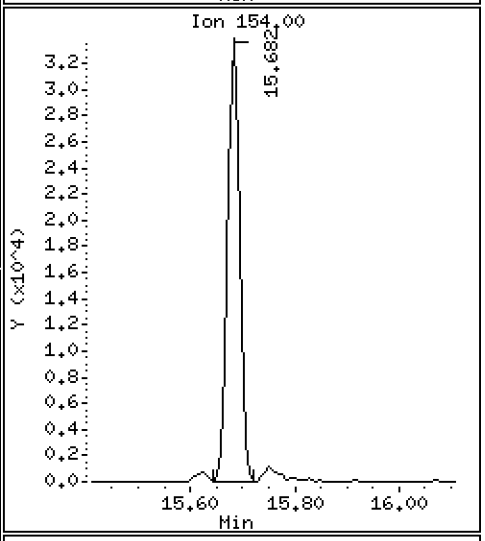
45 2,4-Dinitrophenol

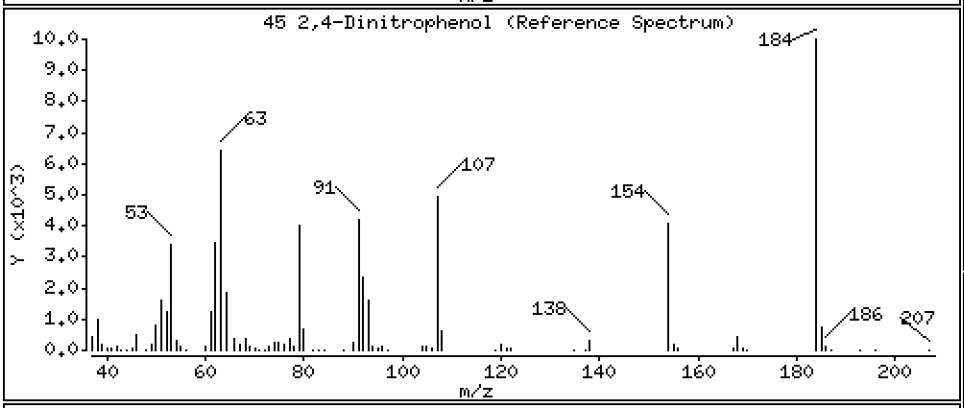
Concentration: 0.1404 ug/mL

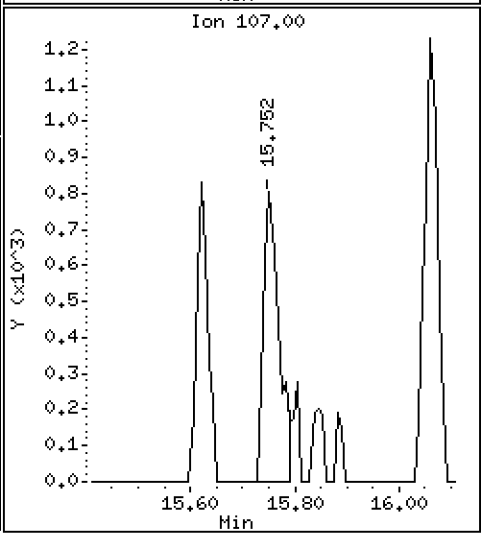


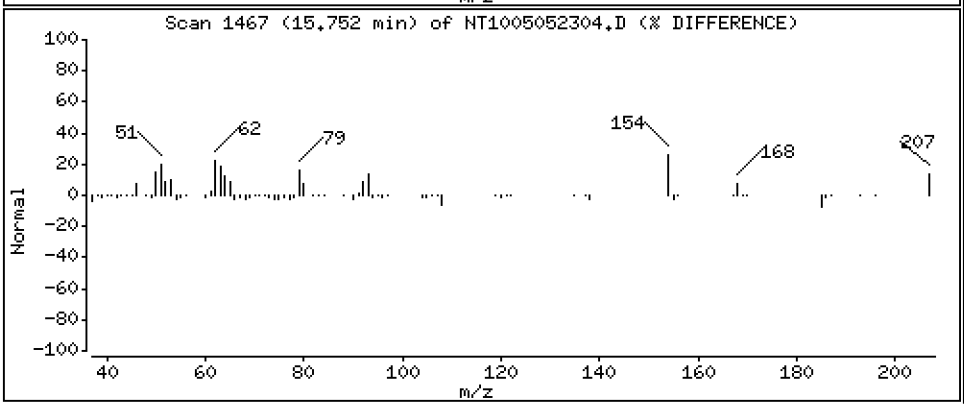












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

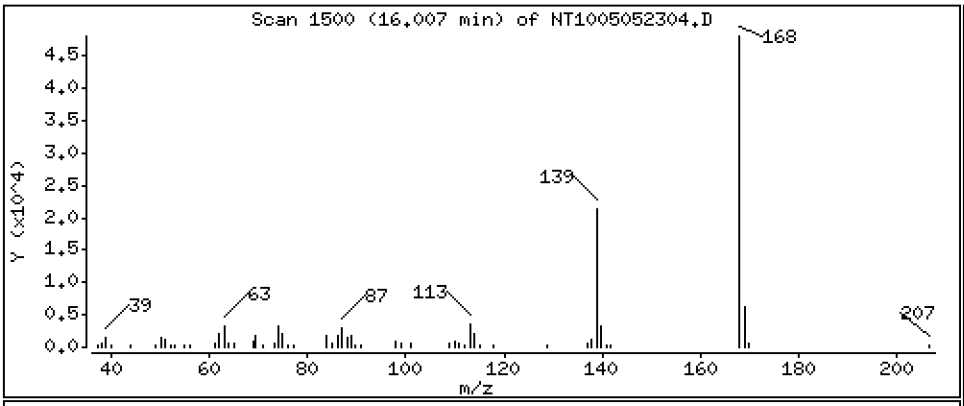
Operator: VTS

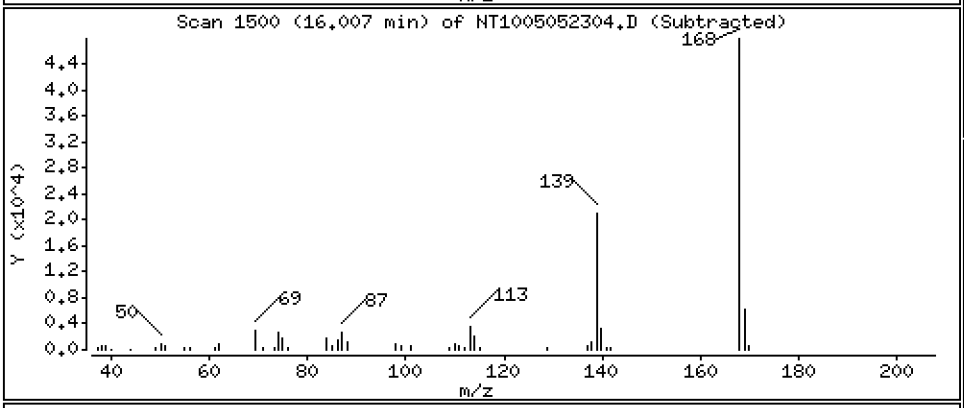
Column phase: ZB-5msi

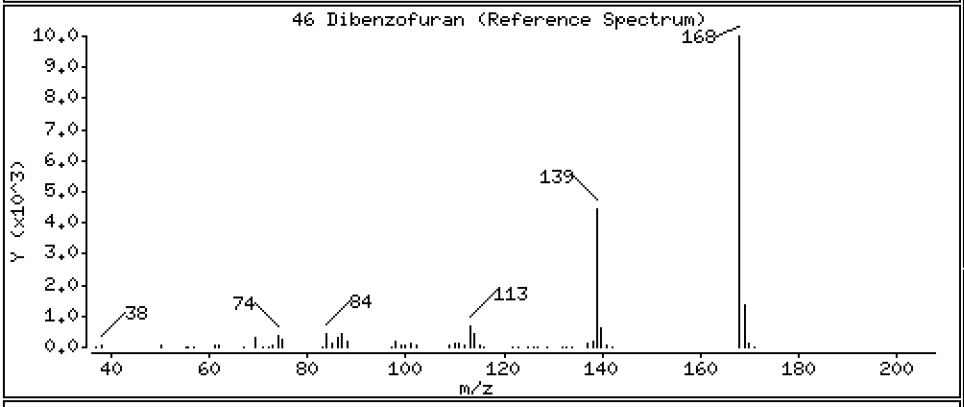
Column diameter: 0.25

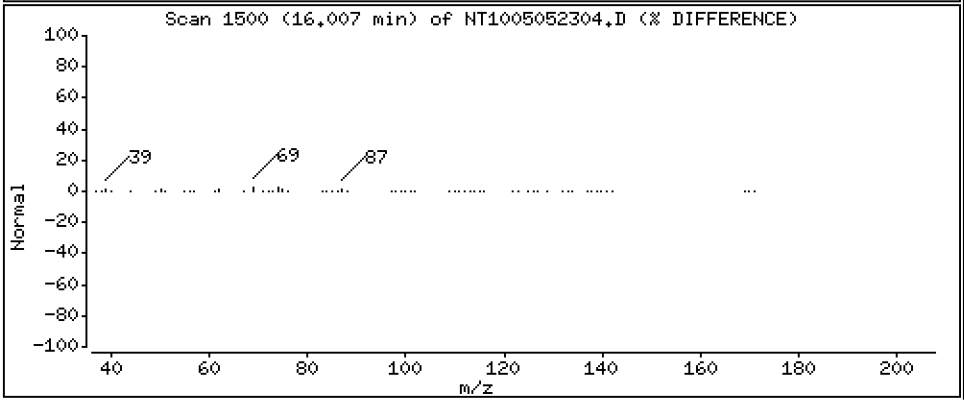
46 Dibenzofuran

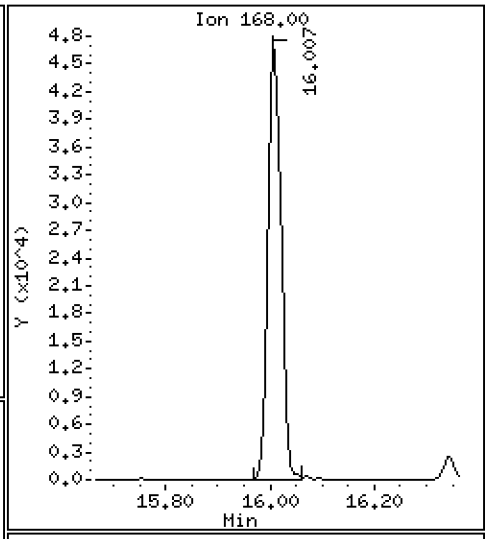
Concentration: 0.4469 ug/mL

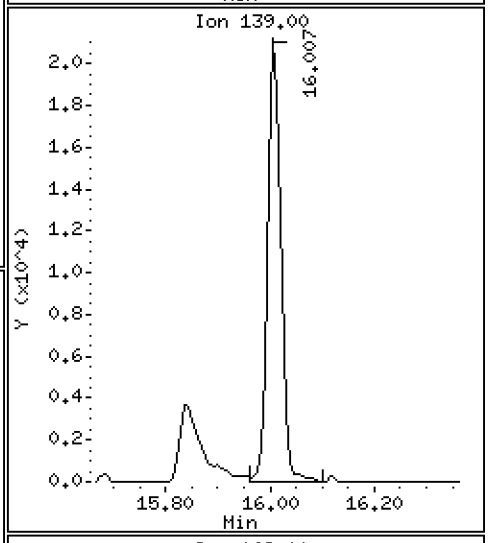


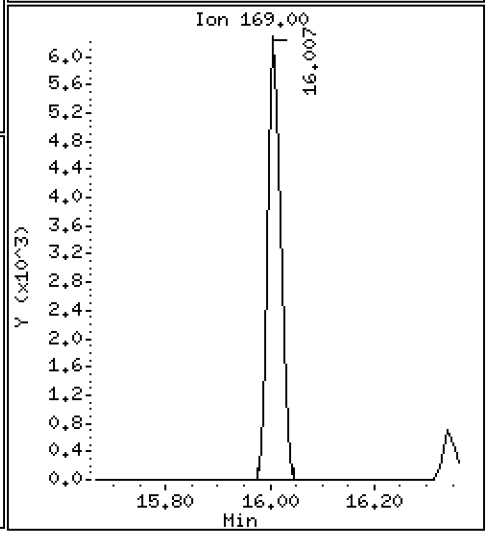












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

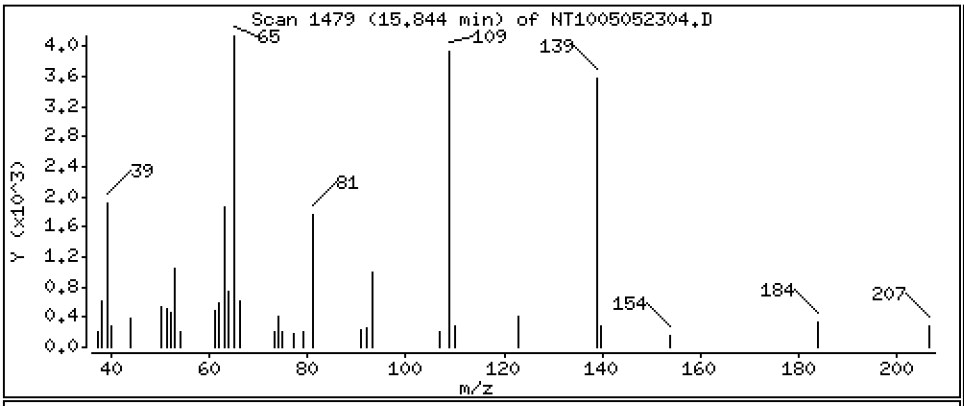
Operator: VTS

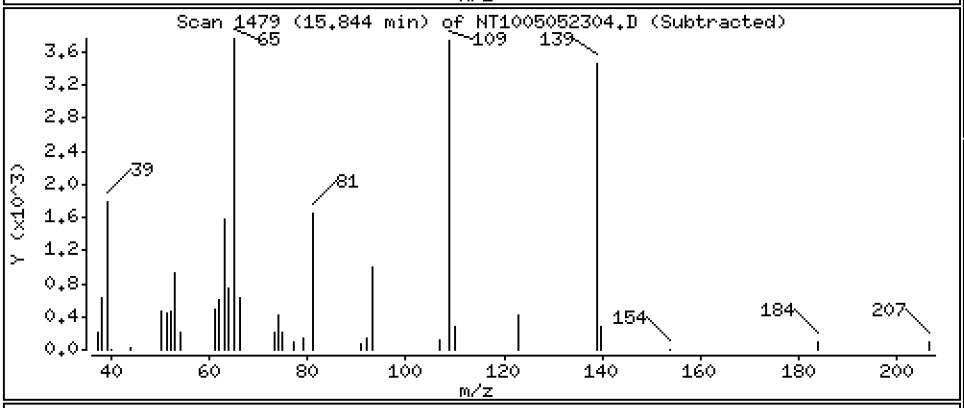
Column phase: ZB-5msi

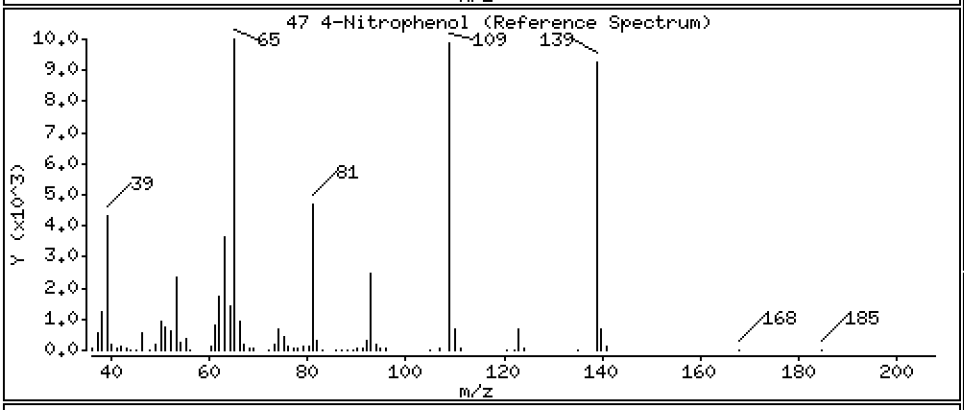
Column diameter: 0.25

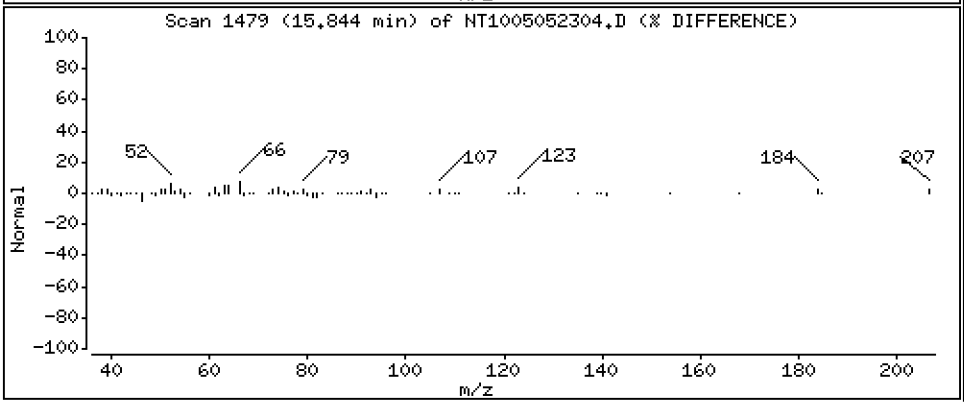
47 4-Nitrophenol

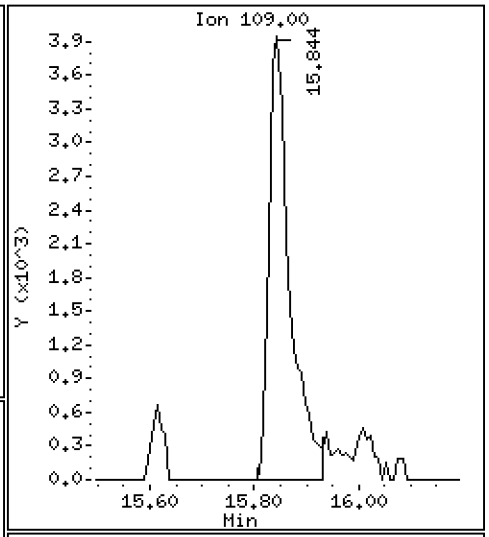
Concentration: 0.3731 ug/mL

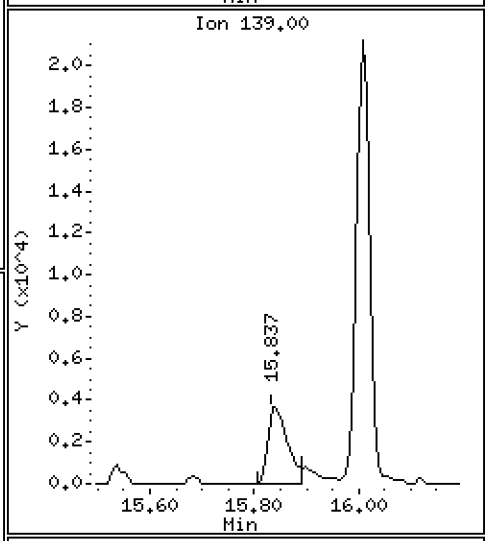


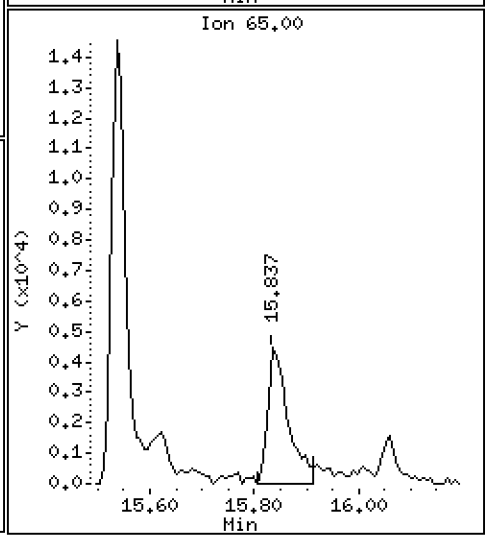












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

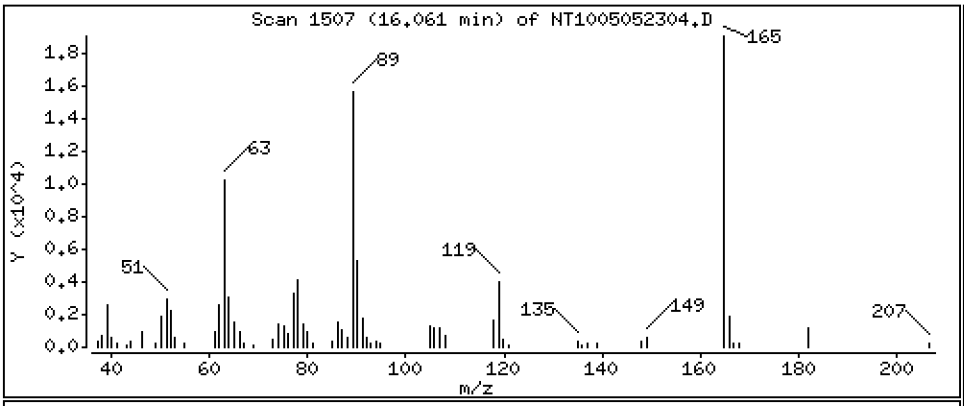
Operator: VTS

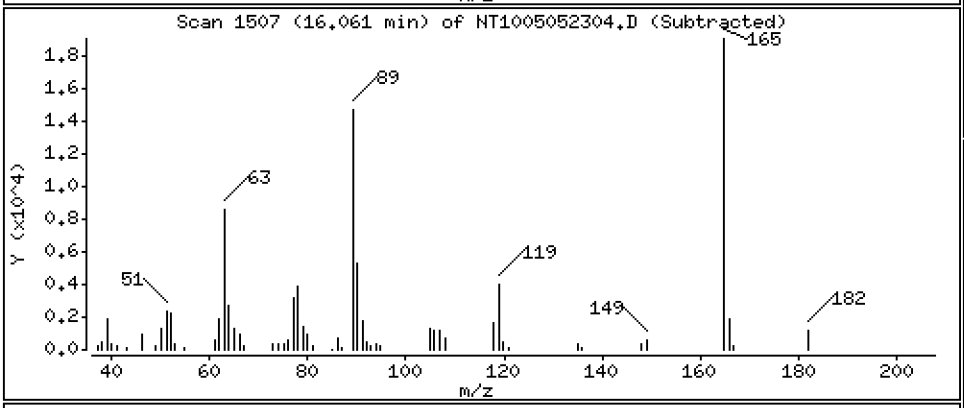
Column phase: ZB-5msi

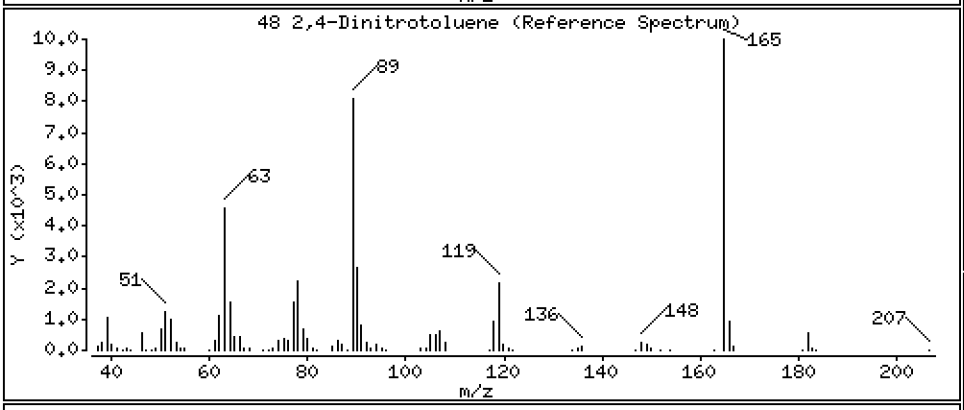
Column diameter: 0.25

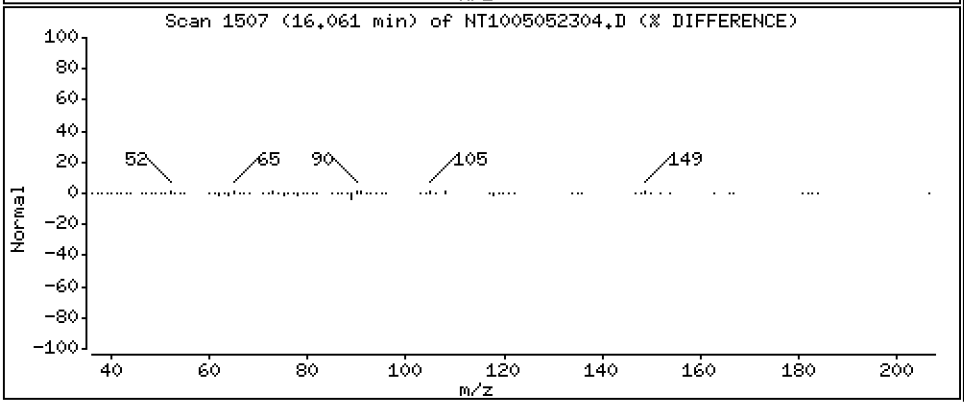
48 2,4-Dinitrotoluene

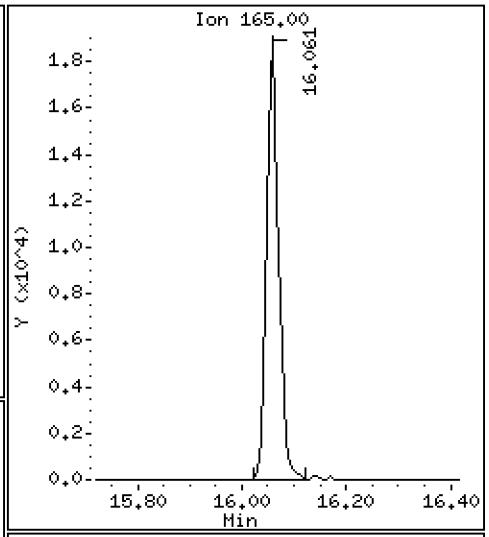
Concentration: 0.6645 ug/mL

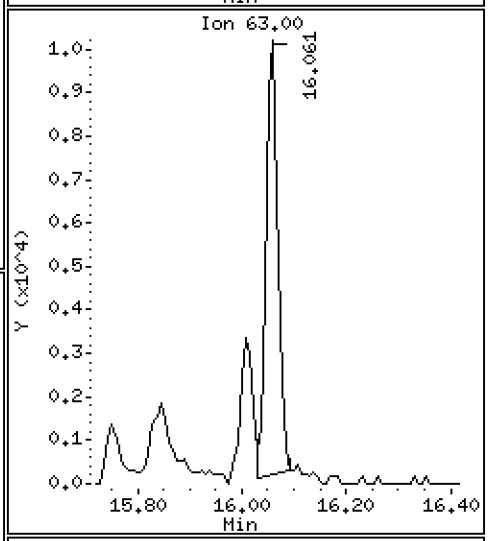


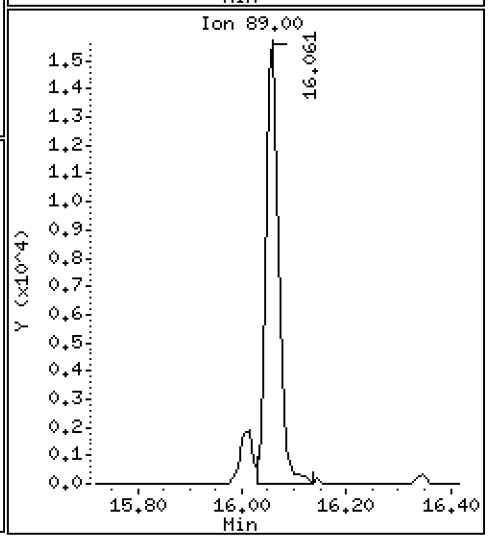












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

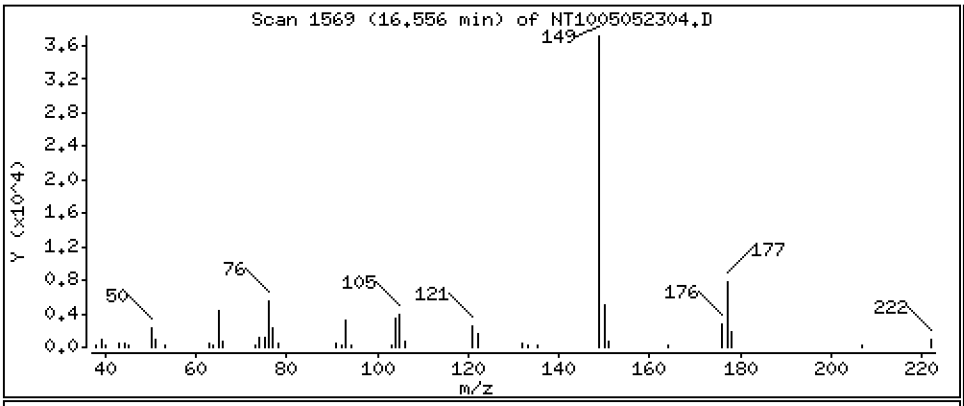
Operator: VTS

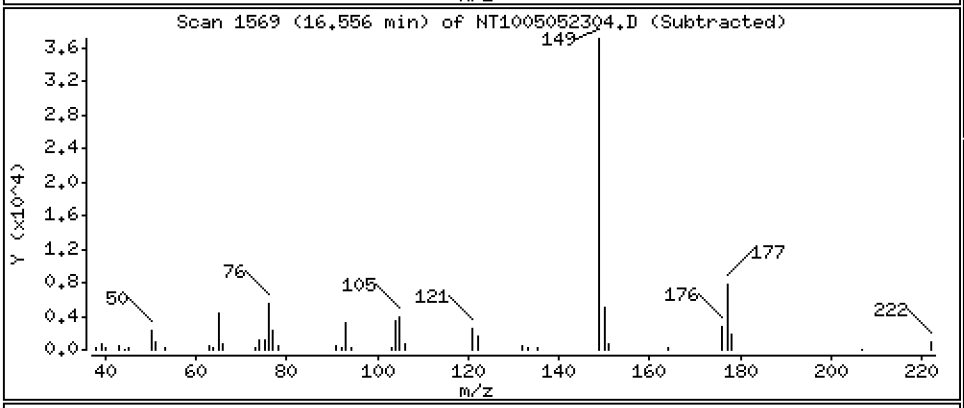
Column phase: ZB-5msi

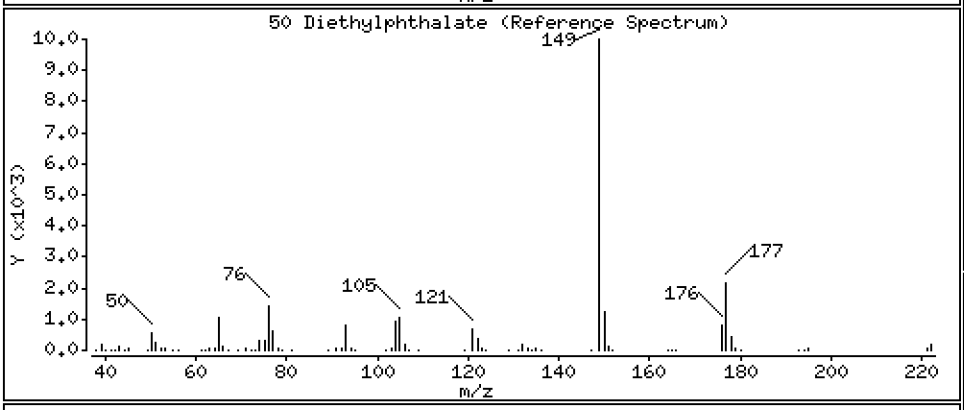
Column diameter: 0.25

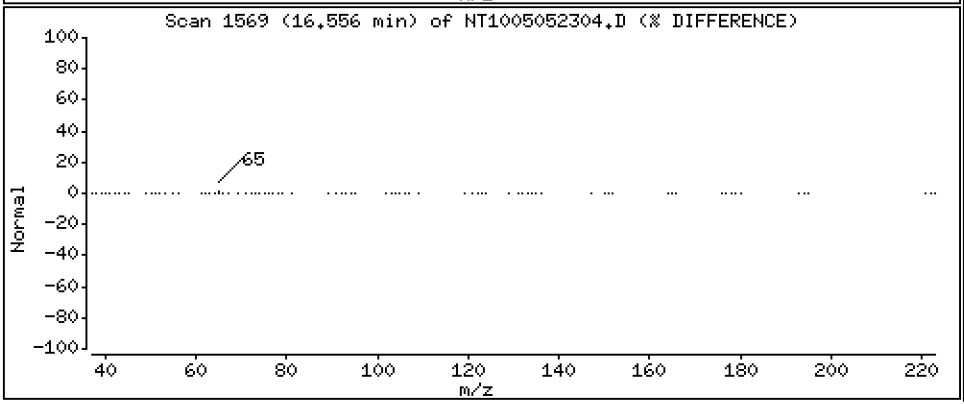
50 Diethylphthalate

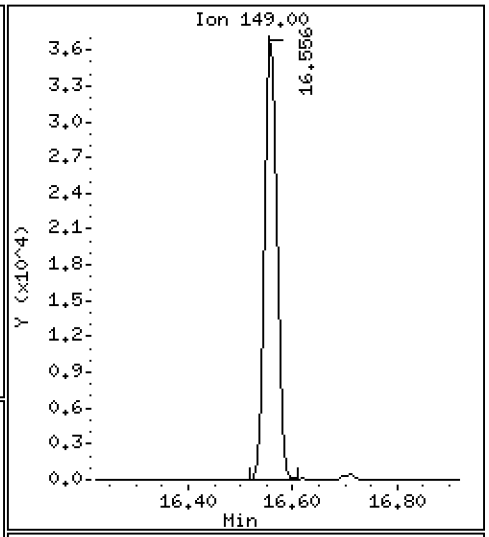
Concentration: 0.4079 ug/mL

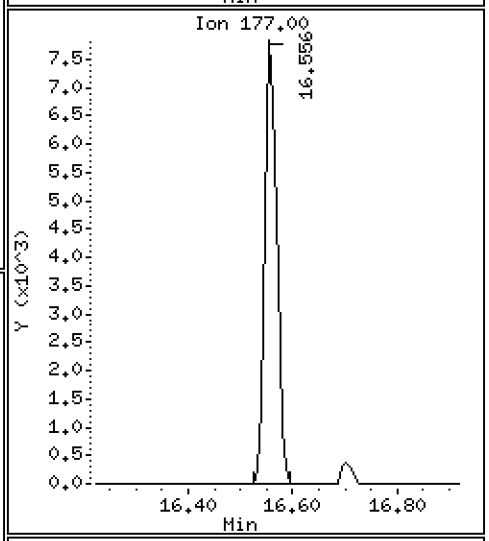


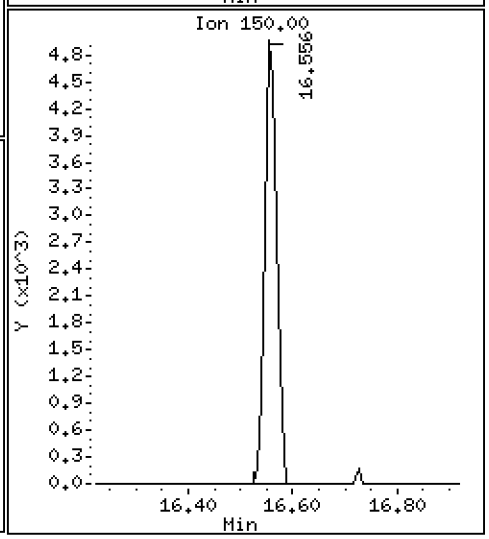












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

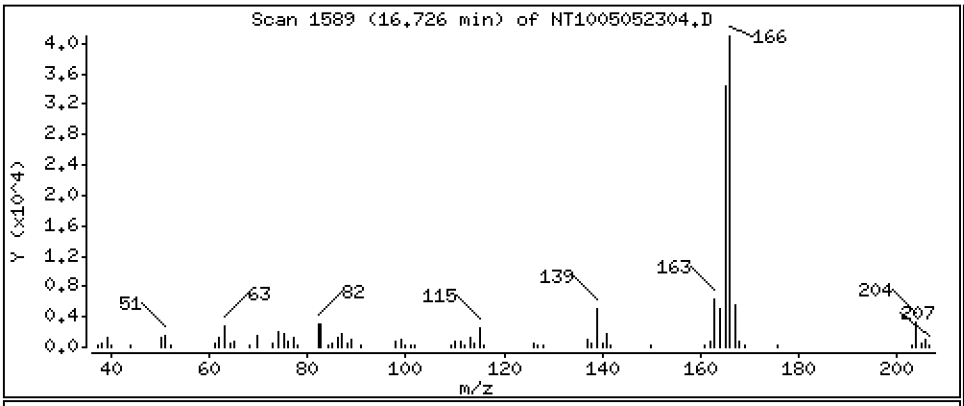
Operator: VTS

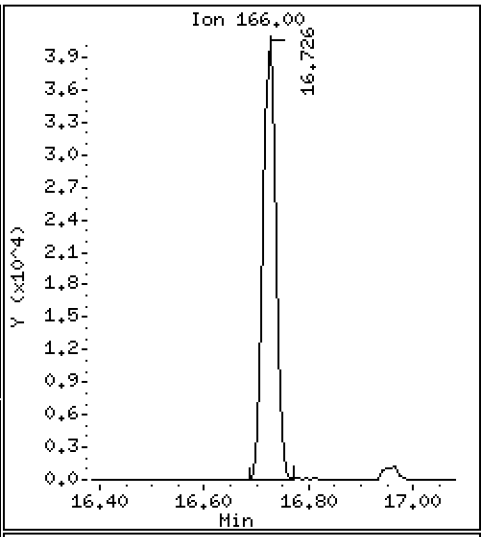
Column phase: ZB-5msi

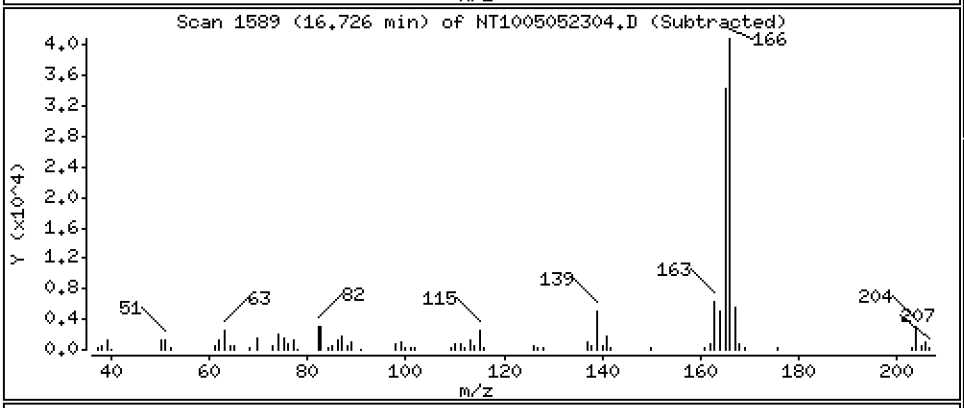
Column diameter: 0.25

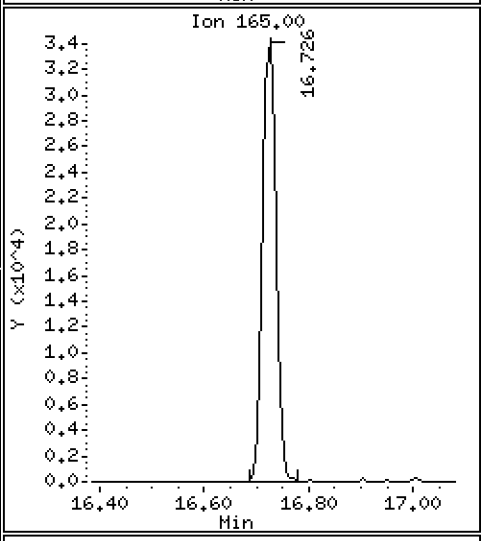
49 Fluorene

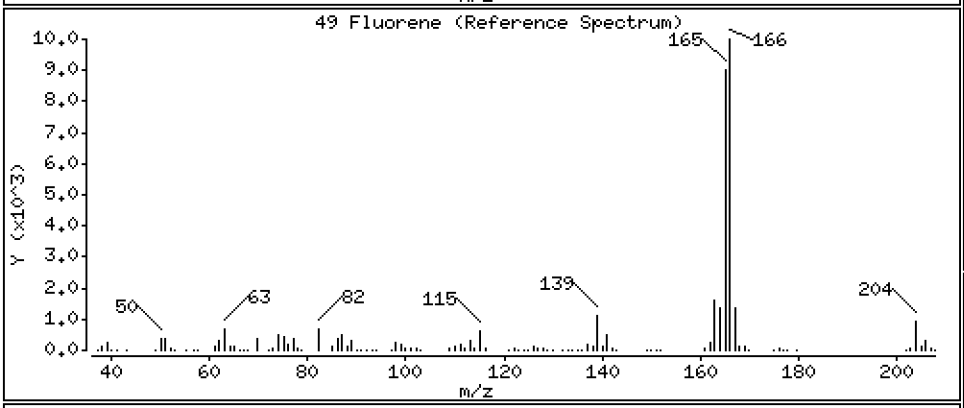
Concentration: 0.4453 ug/mL

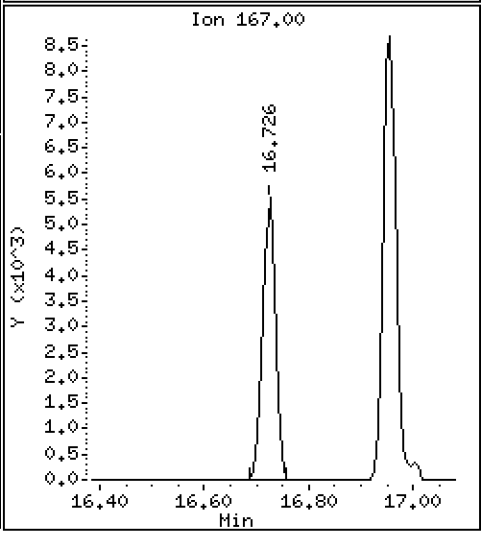


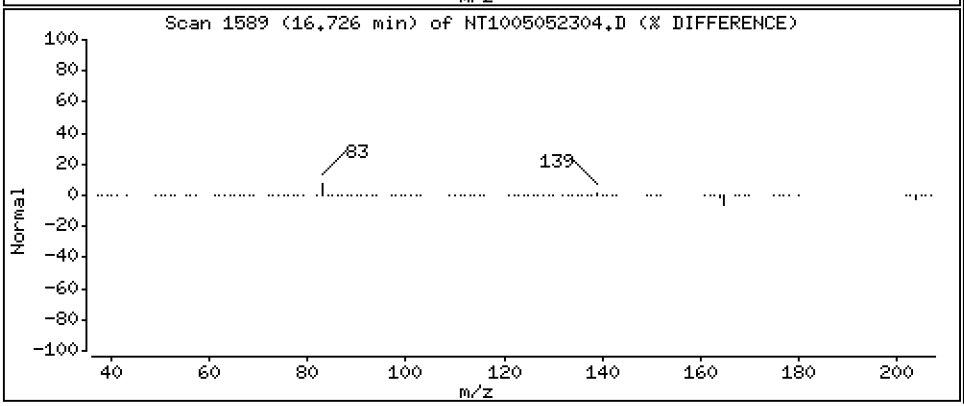












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

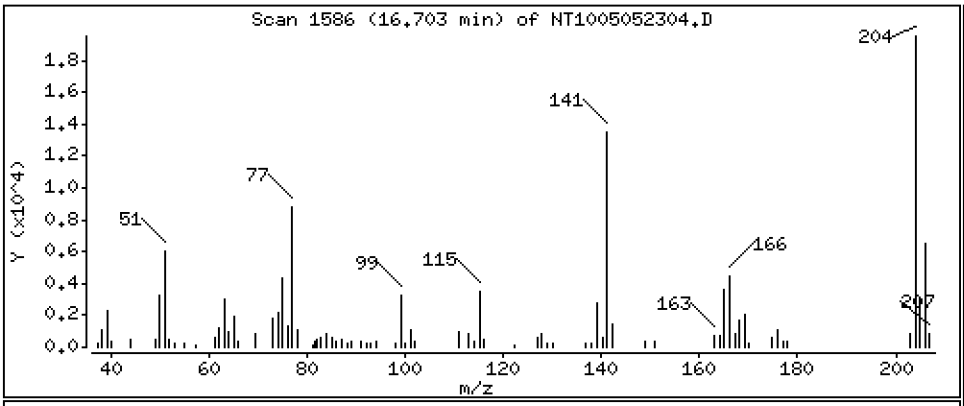
Operator: VTS

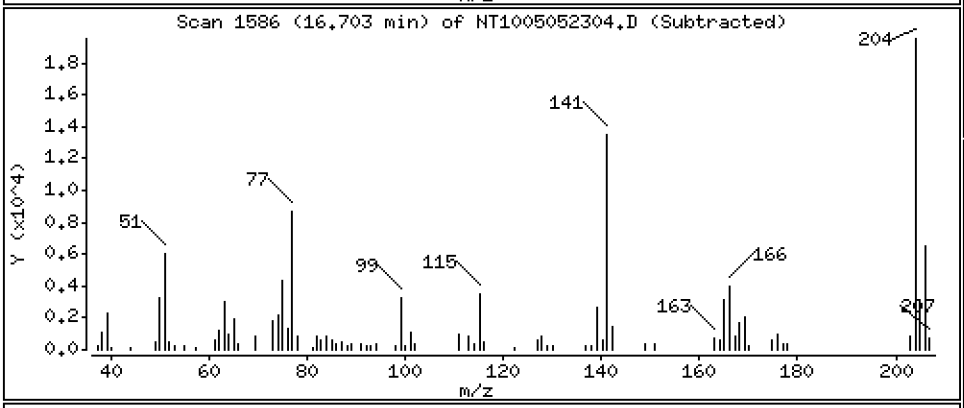
Column phase: ZB-5msi

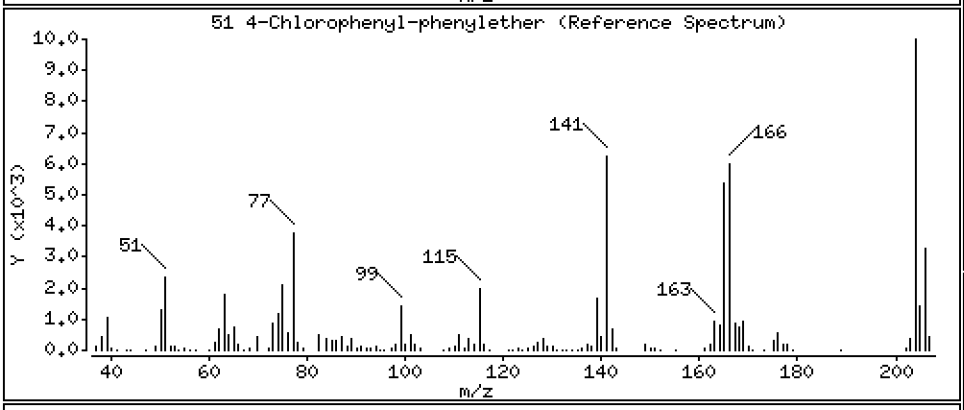
Column diameter: 0.25

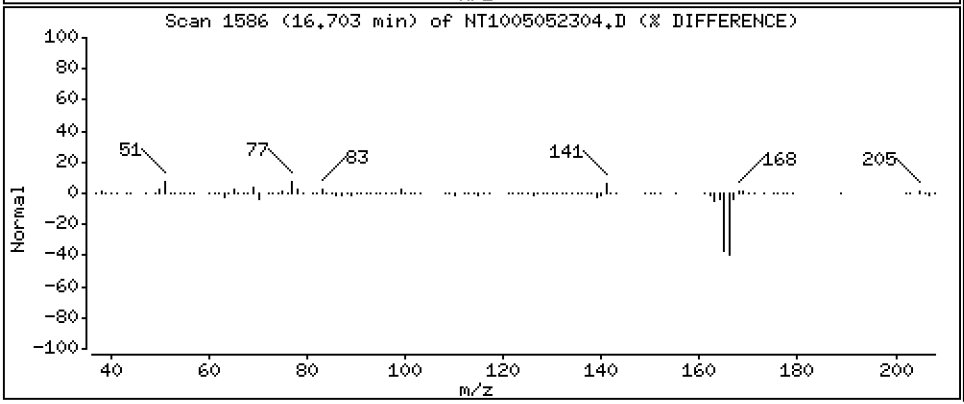
51 4-Chlorophenyl-phenylether

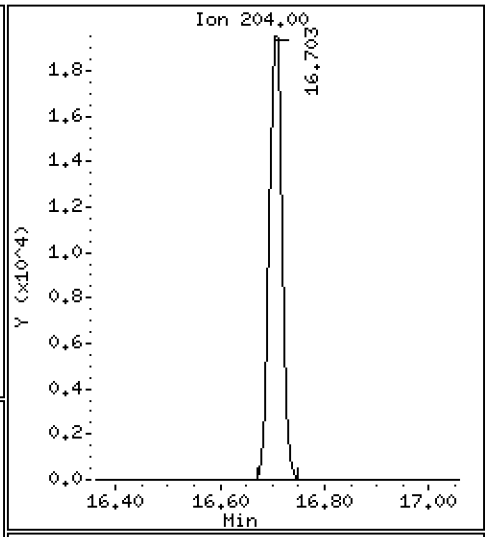
Concentration: 0.4351 ug/mL

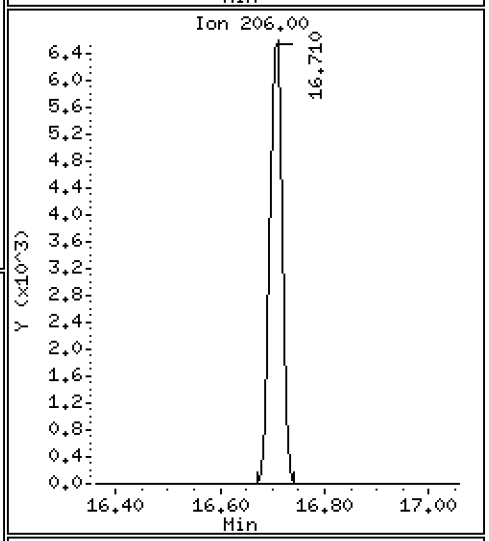


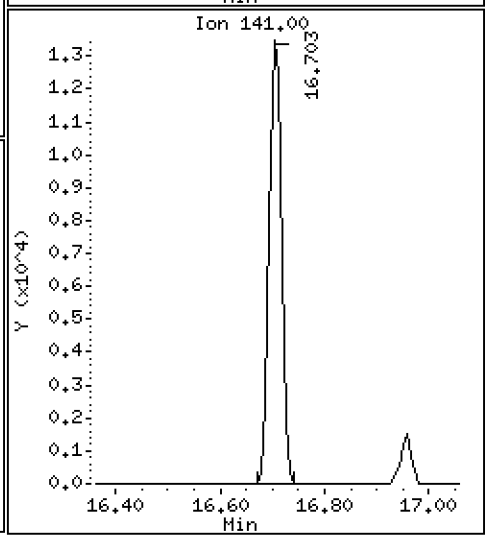












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

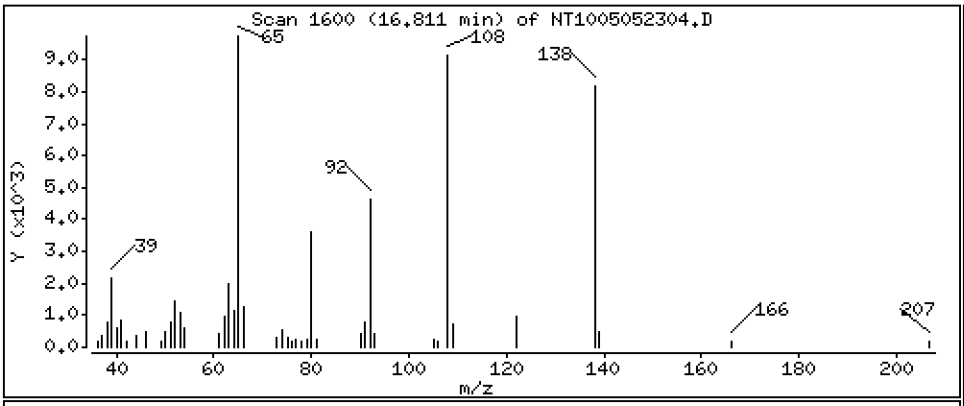
Operator: VTS

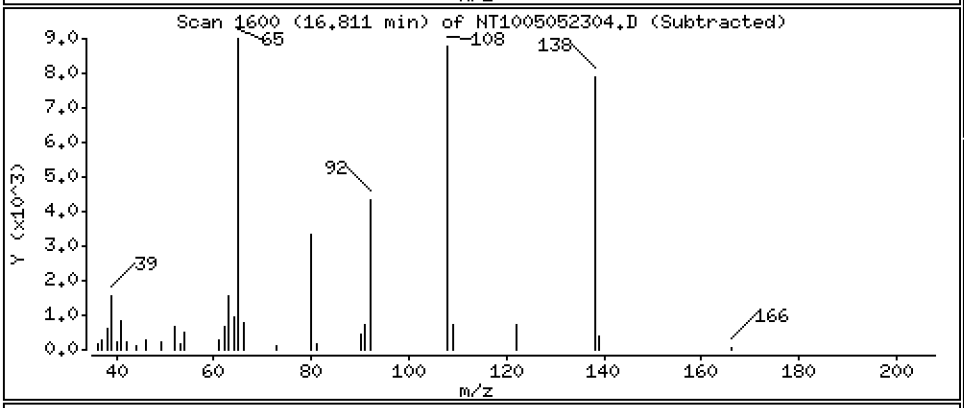
Column phase: ZB-5msi

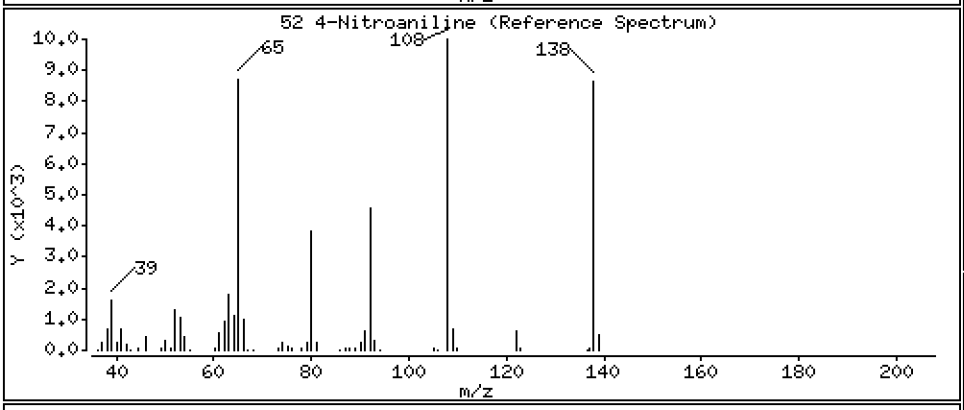
Column diameter: 0.25

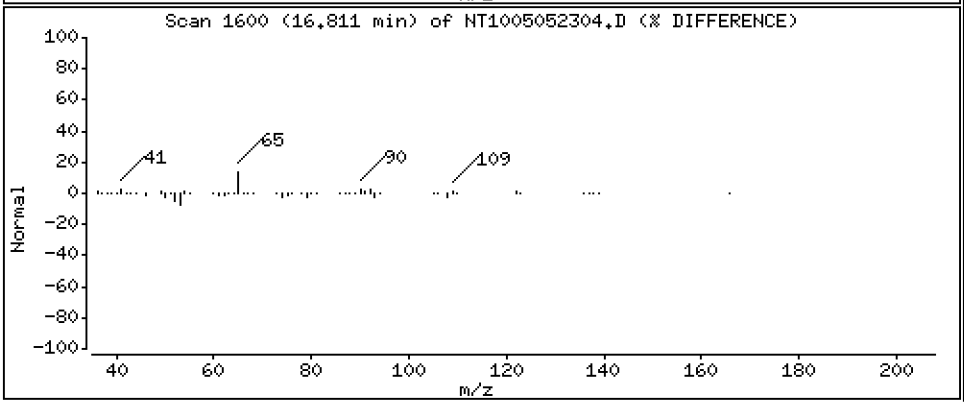
52 4-Nitroaniline

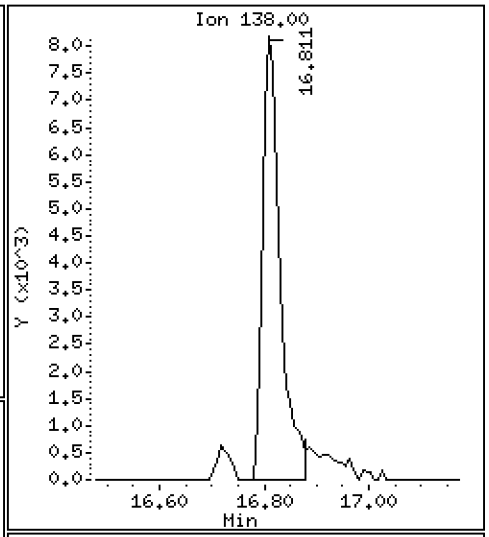
Concentration: 0.6285 ug/mL

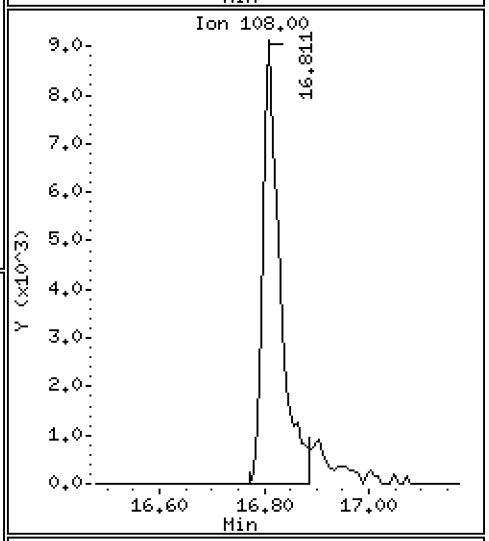


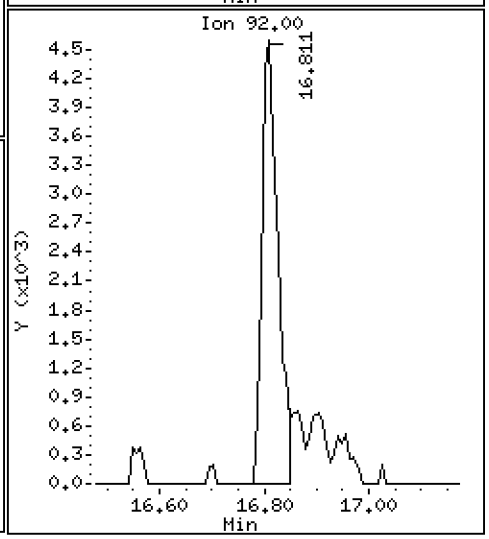












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

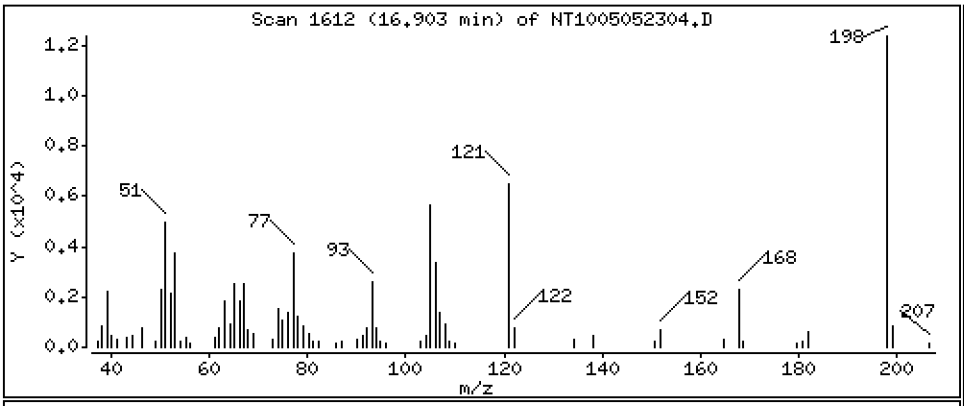
Operator: VTS

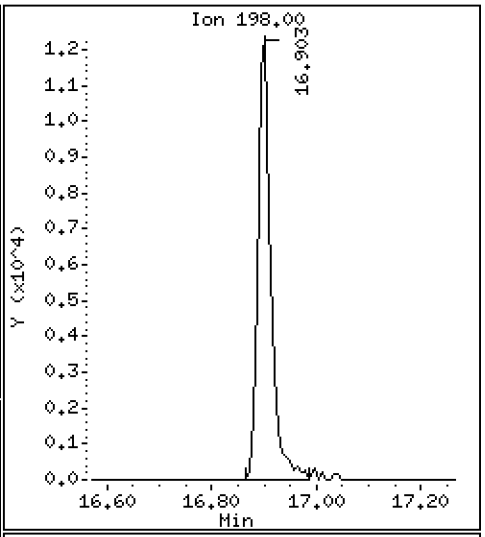
Column phase: ZB-5msi

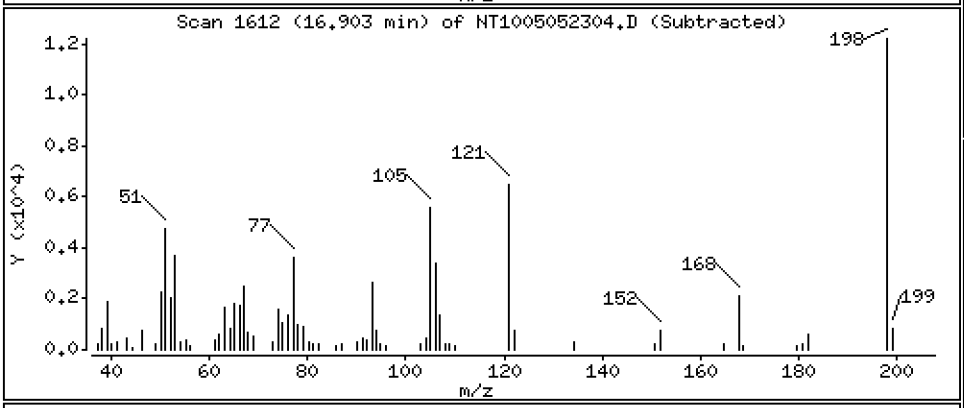
Column diameter: 0.25

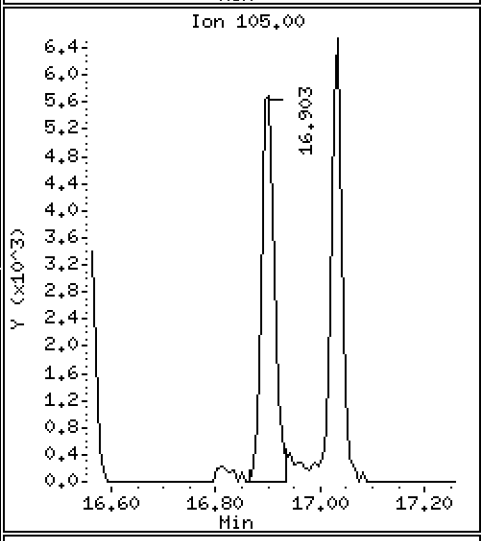
53 4,6-Dinitro-2-methylphenol

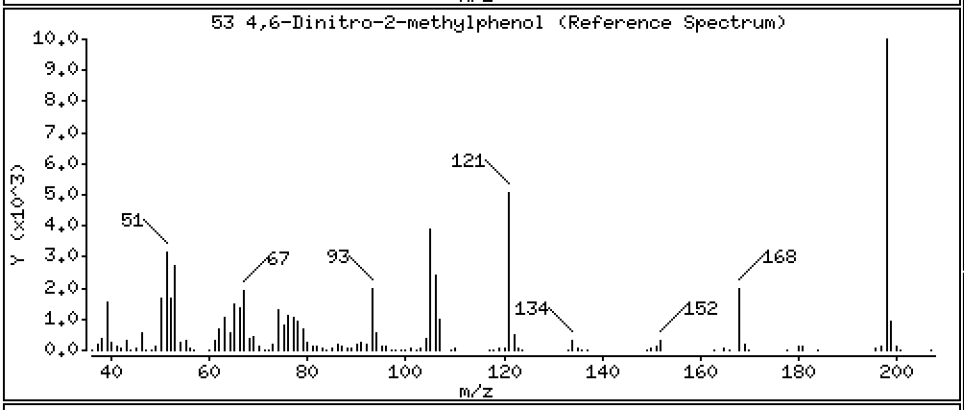
Concentration: 0.7835 ug/mL

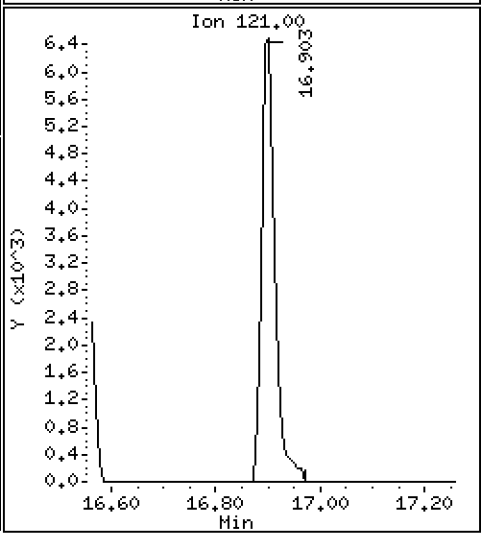


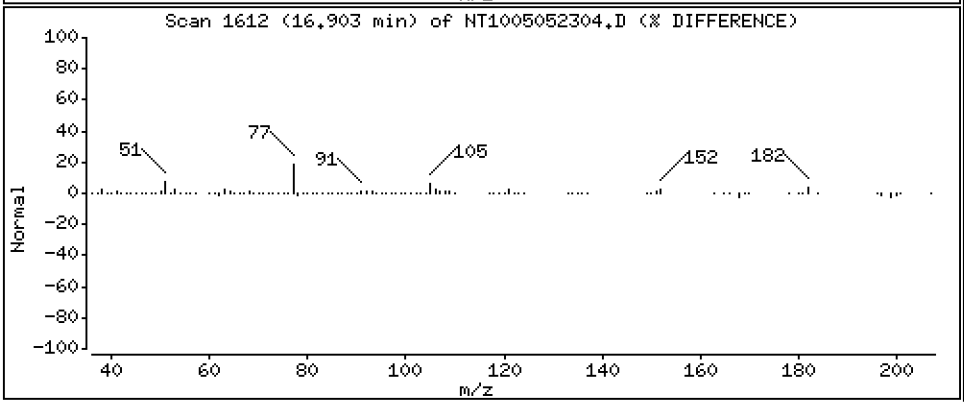












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

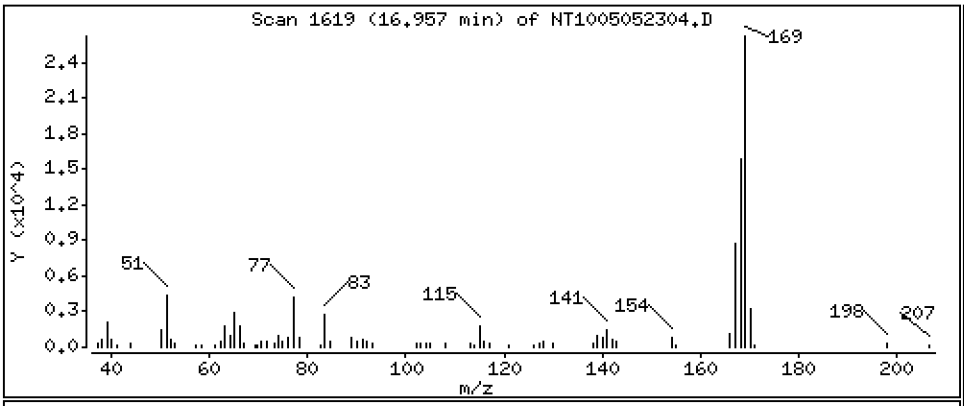
Operator: VTS

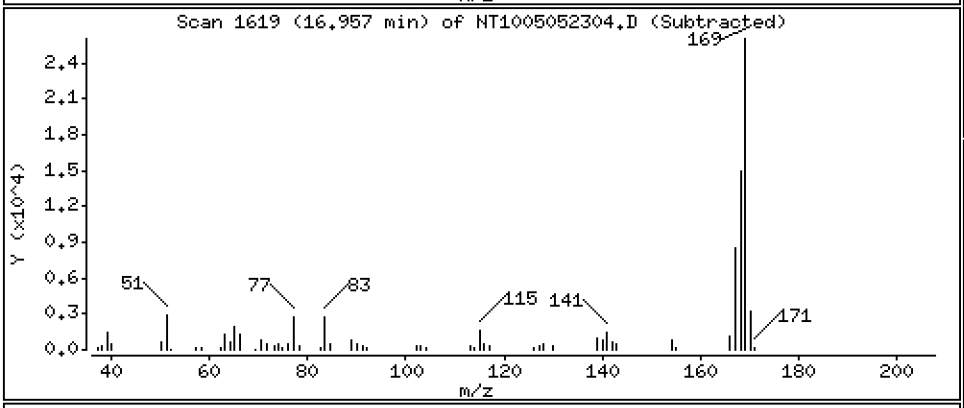
Column phase: ZB-5msi

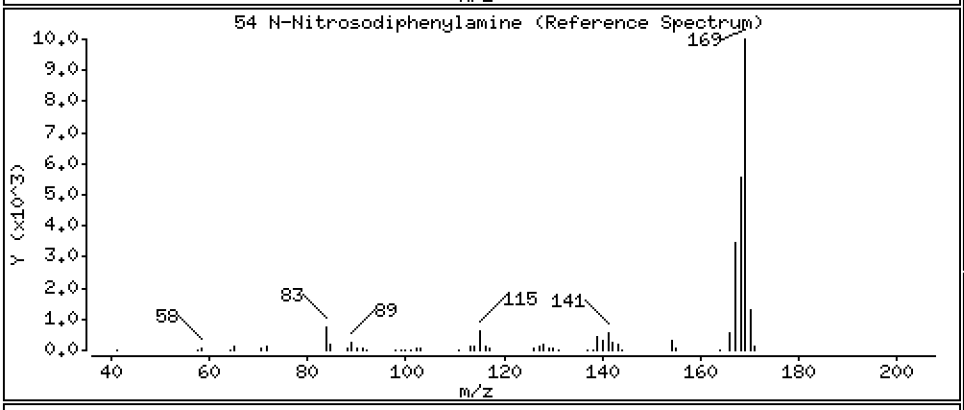
Column diameter: 0.25

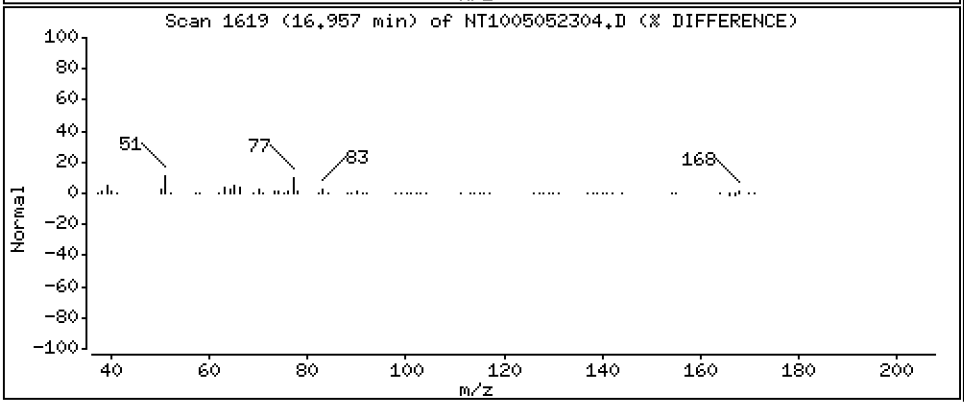
54 N-Nitrosodiphenylamine

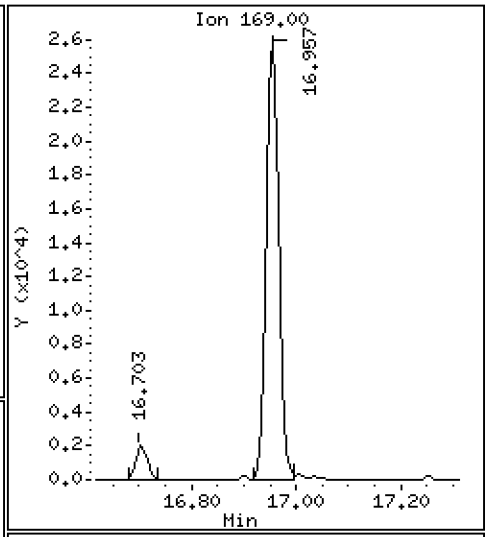
Concentration: 0.4466 ug/mL

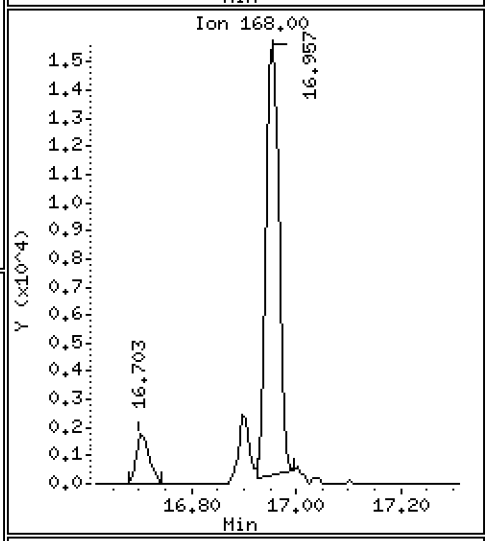


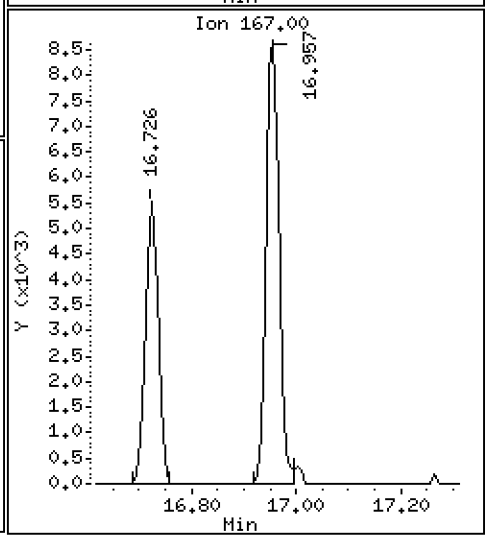












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

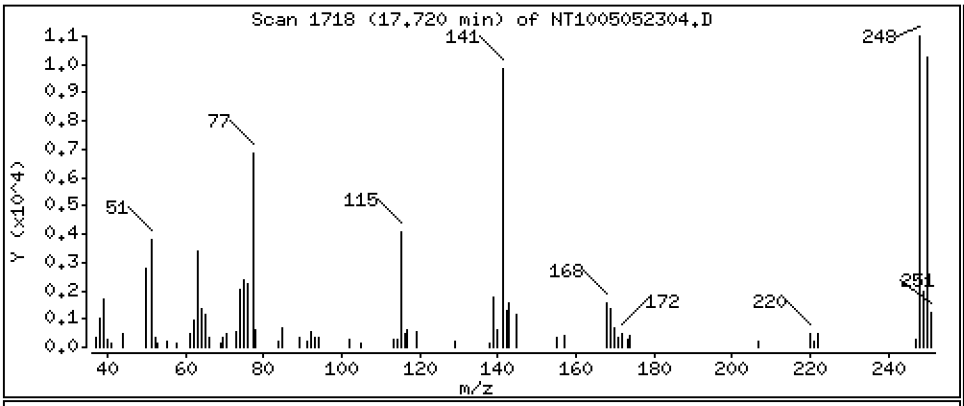
Operator: VTS

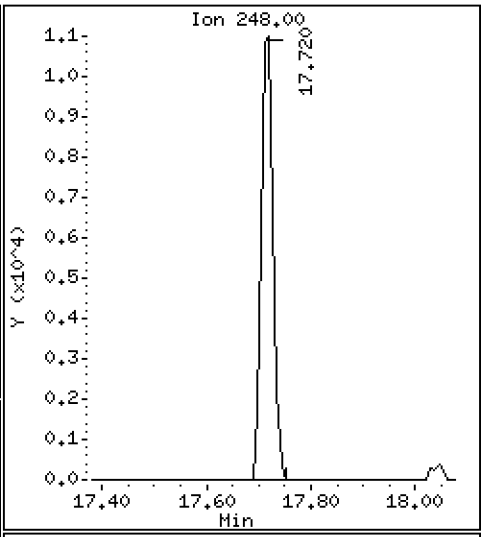
Column phase: ZB-5msi

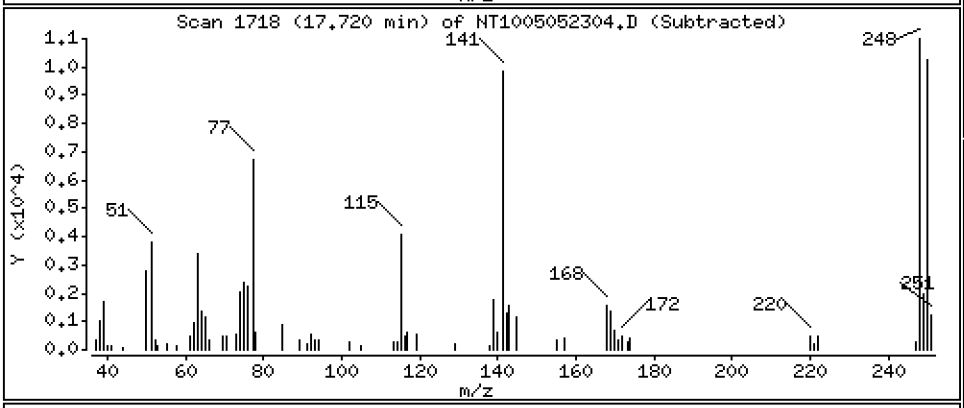
Column diameter: 0.25

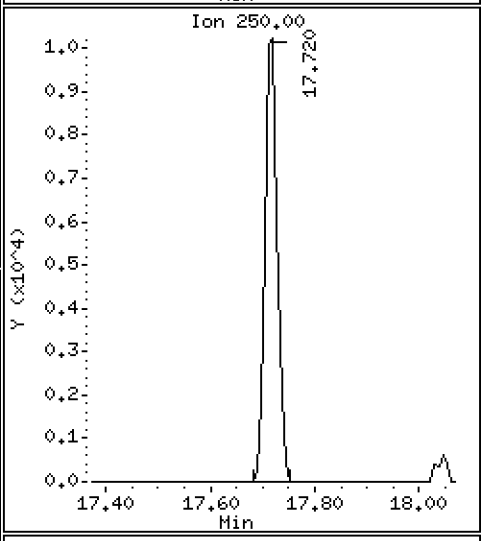
56 4-Bromophenyl-phenylether

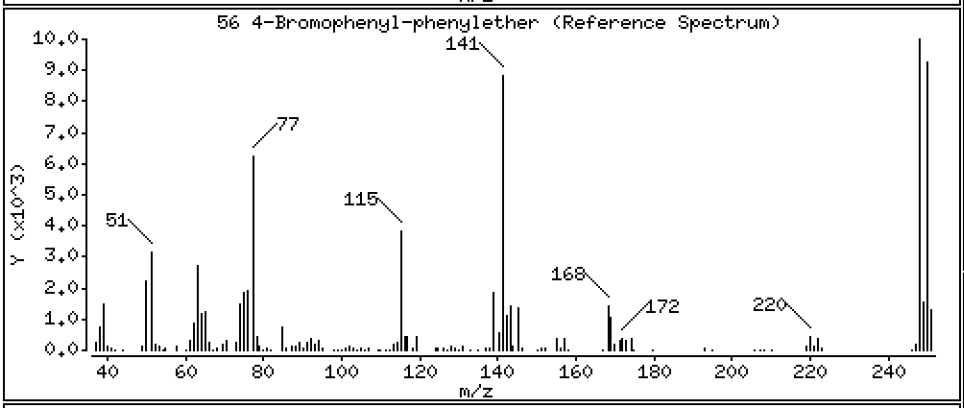
Concentration: 0.4147 ug/mL

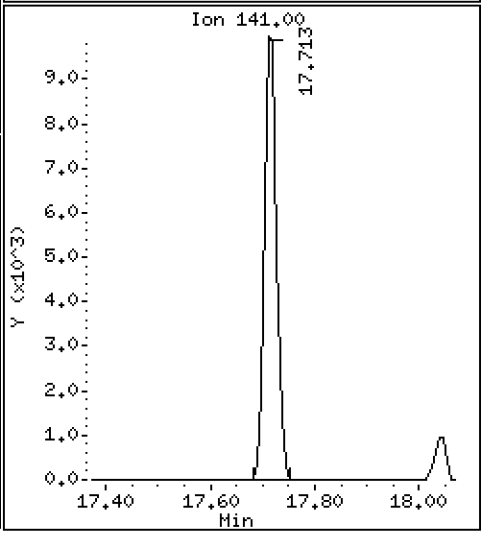


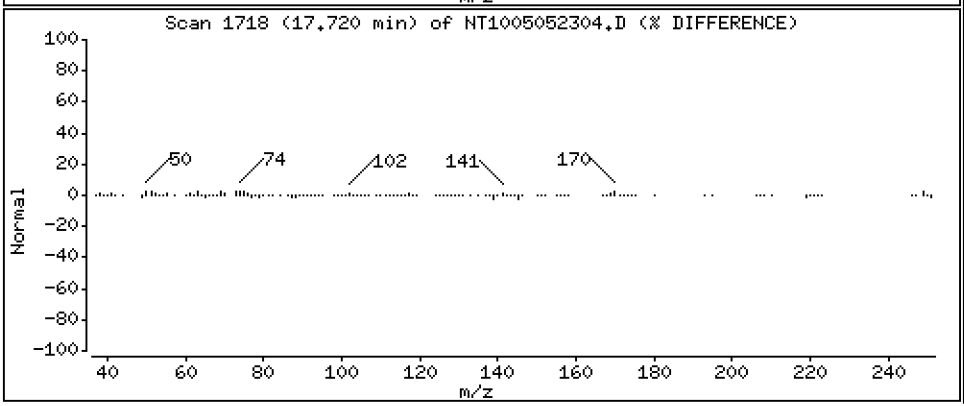












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

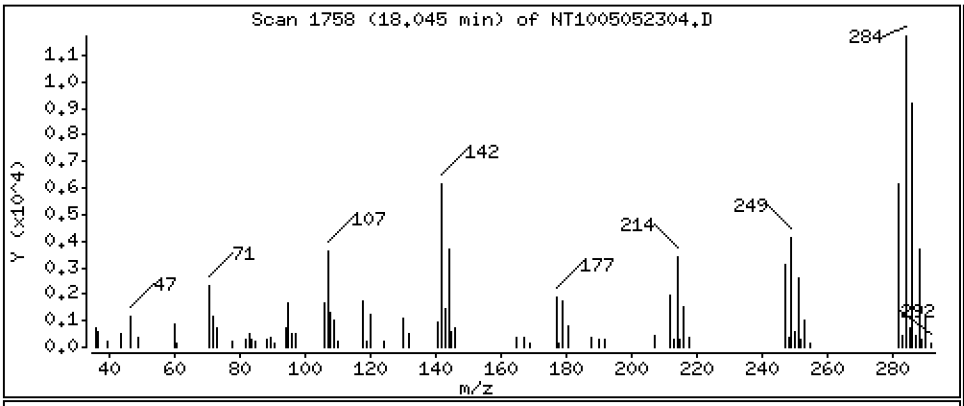
Operator: VTS

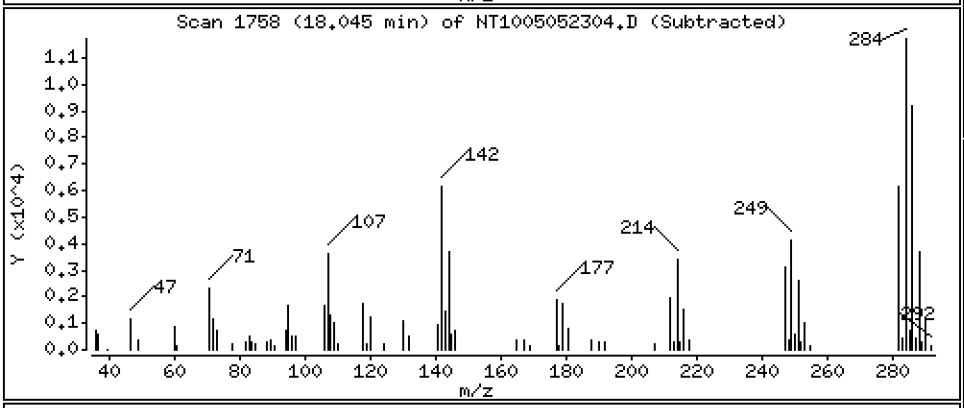
Column phase: ZB-5msi

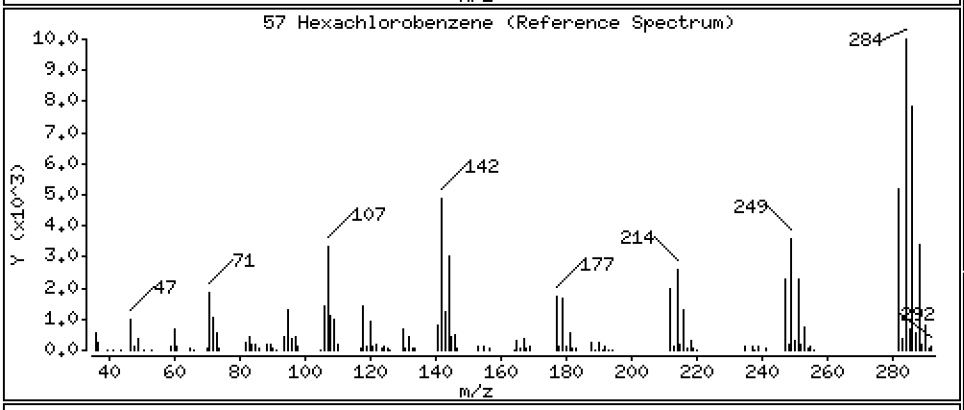
Column diameter: 0.25

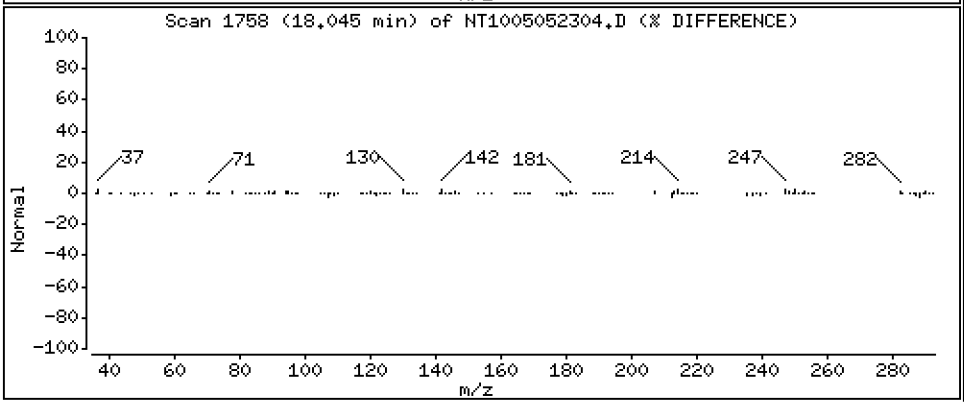
57 Hexachlorobenzene

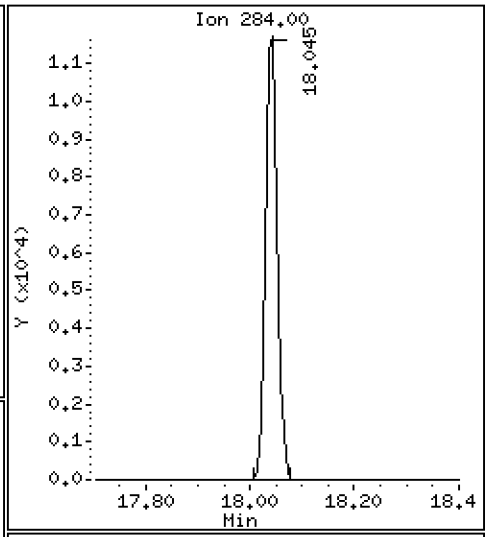
Concentration: 0.4382 ug/mL

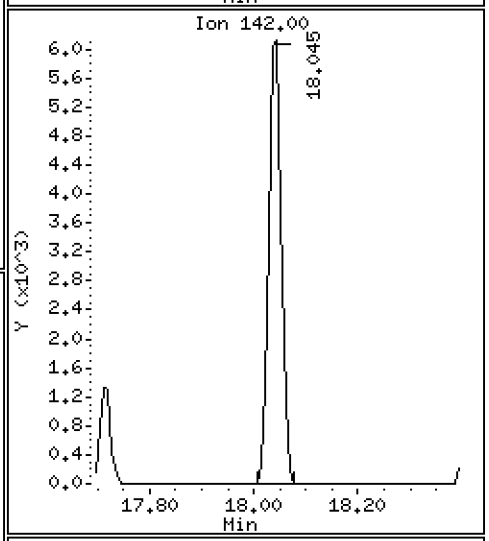


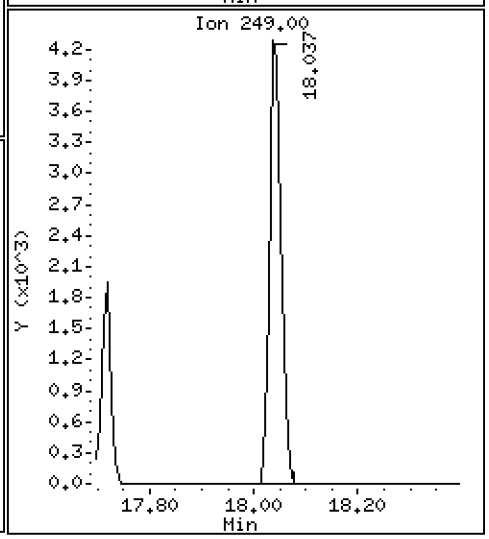












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

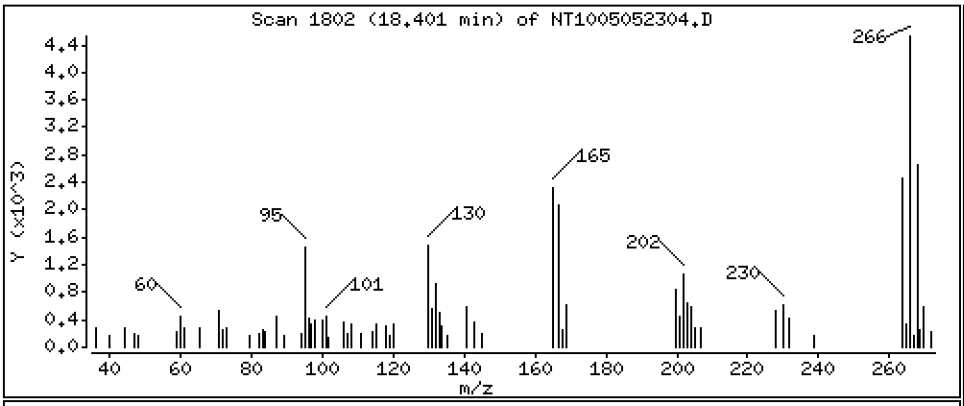
Operator: VTS

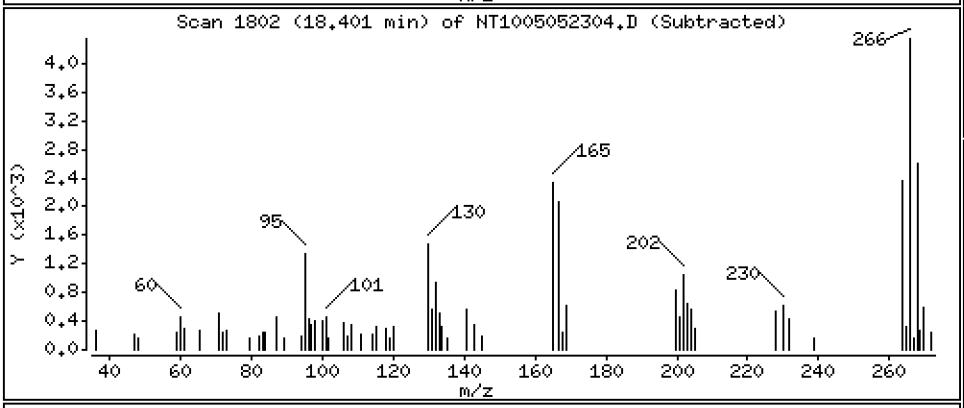
Column phase: ZB-5msi

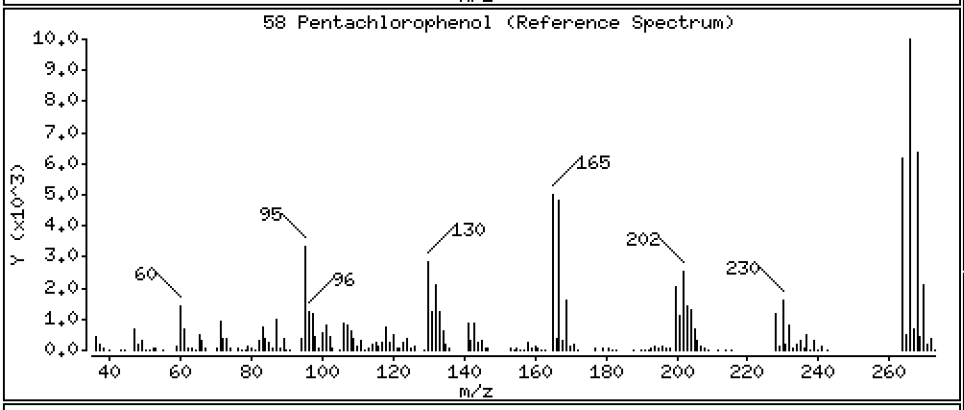
Column diameter: 0.25

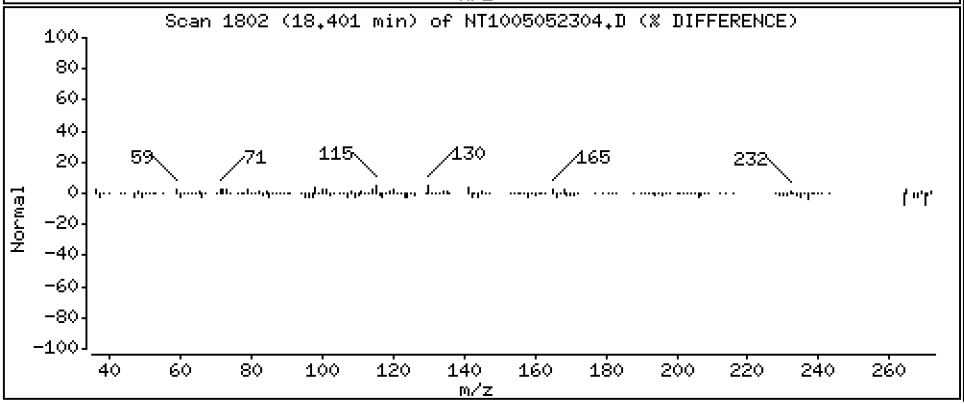
58 Pentachlorophenol

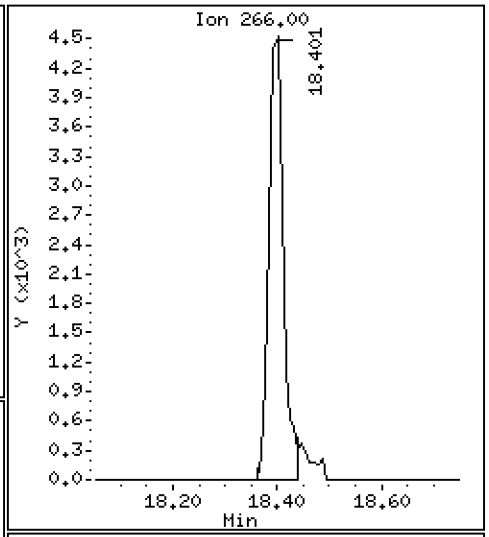
Concentration: 0.2840 ug/mL

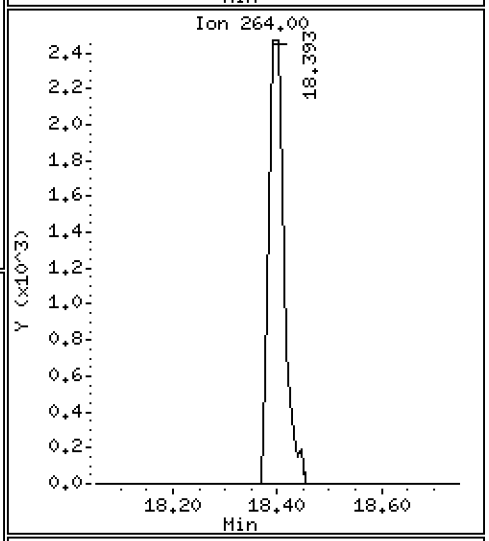


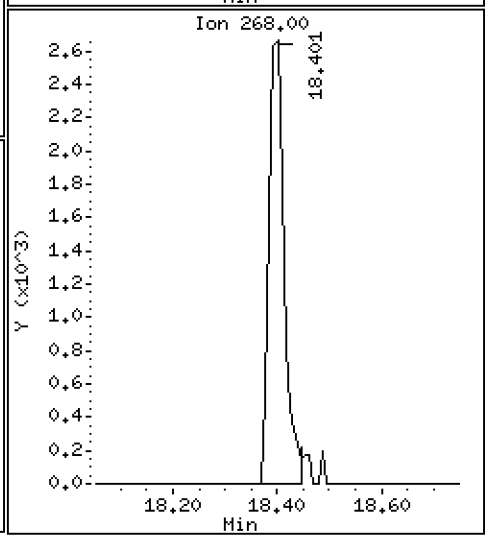












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

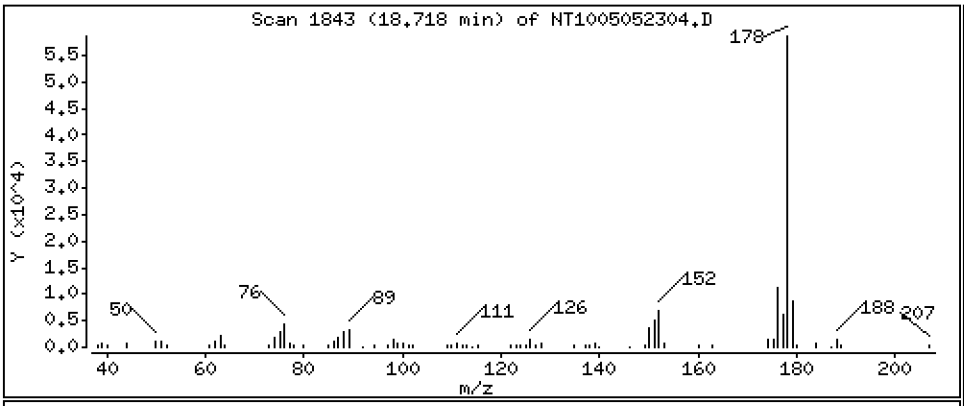
Operator: VTS

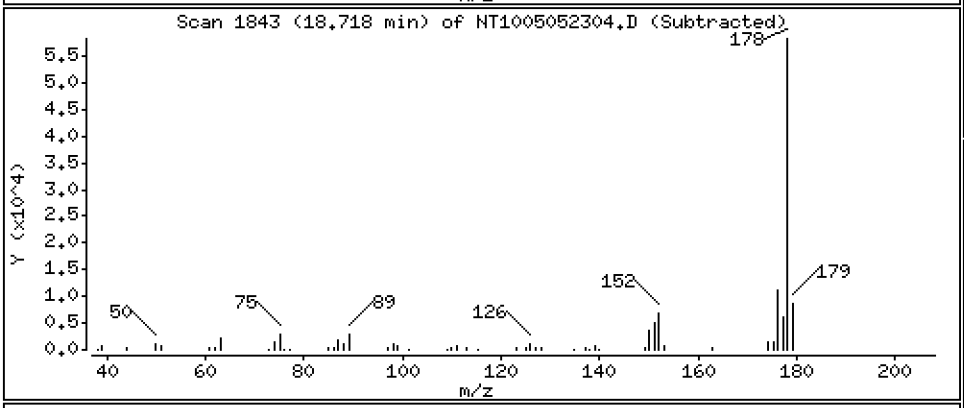
Column phase: ZB-5msi

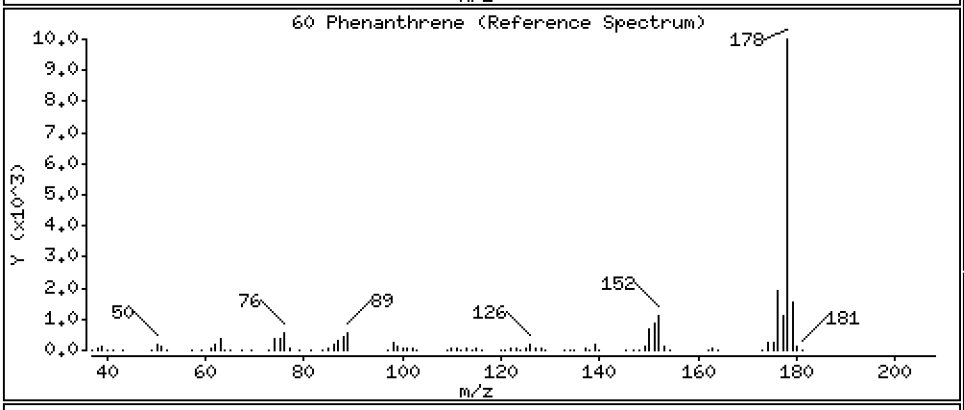
Column diameter: 0.25

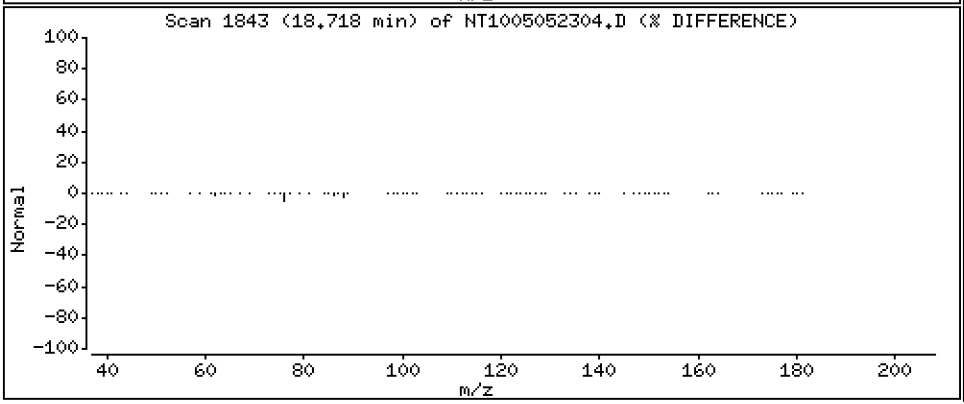
60 Phenanthrene

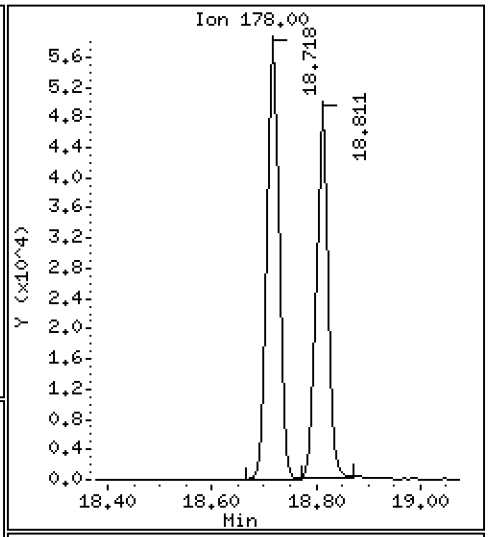
Concentration: 0.4394 ug/mL

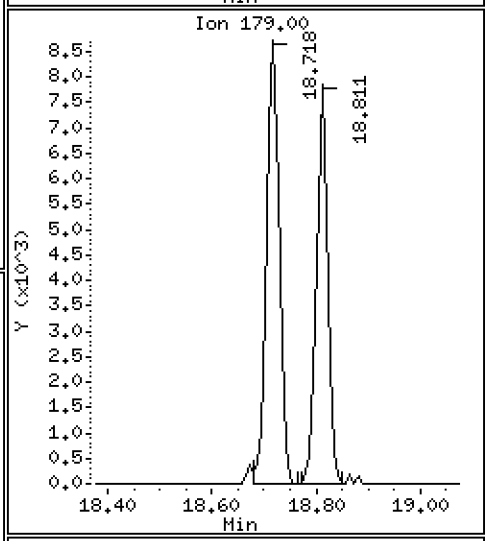


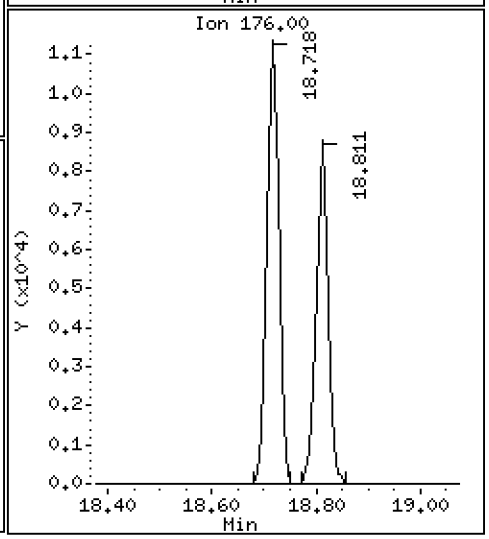












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

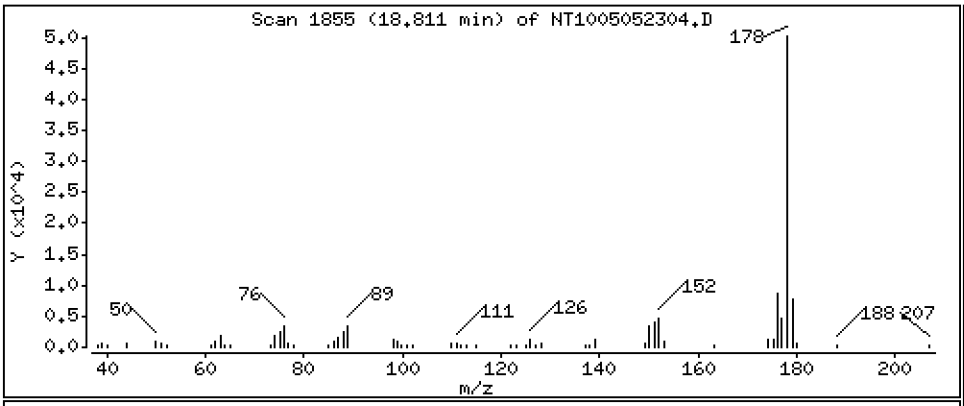
Operator: VTS

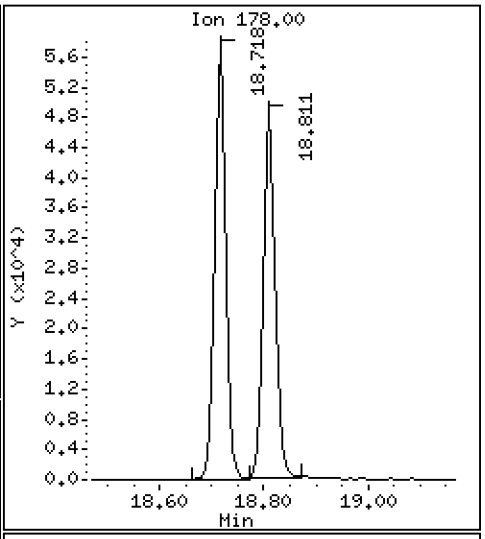
Column phase: ZB-5msi

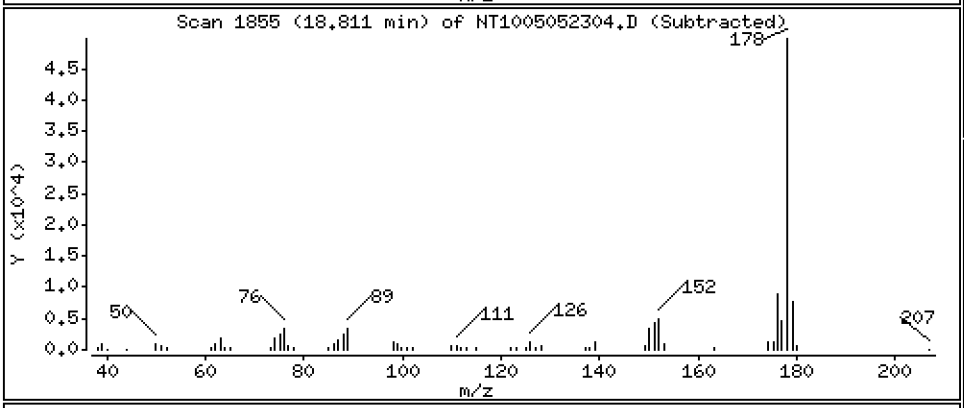
Column diameter: 0.25

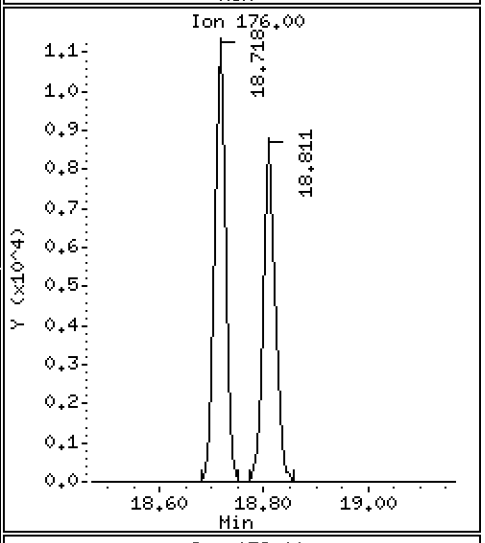
61 Anthracene

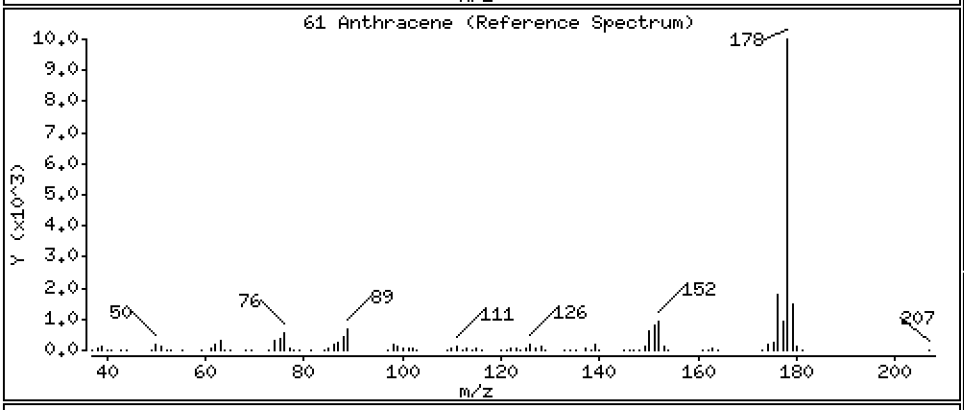
Concentration: 0.3967 ug/mL

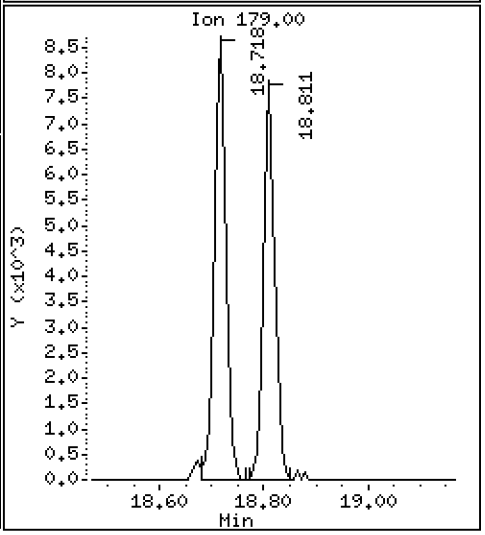


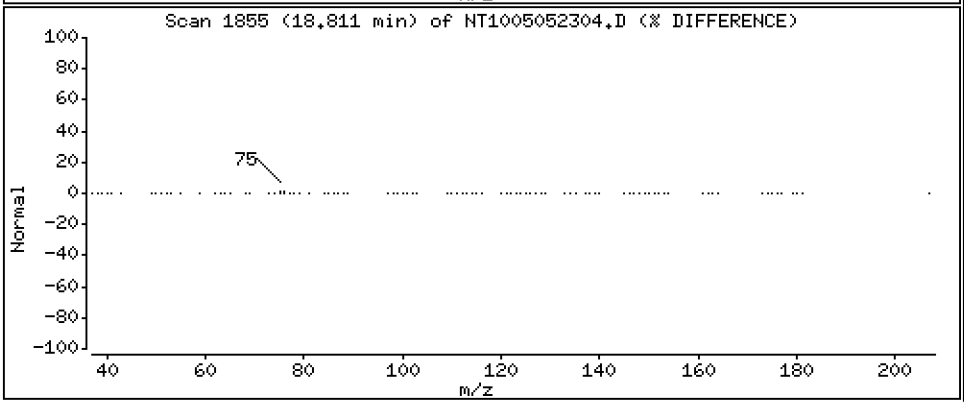












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

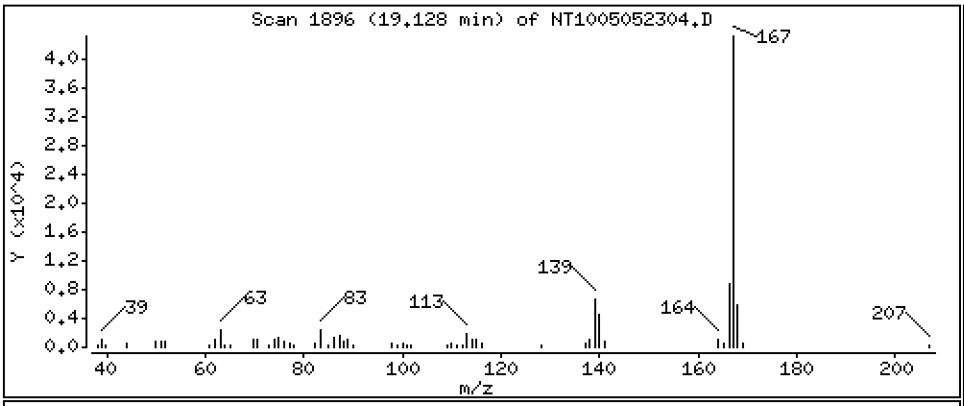
Operator: VTS

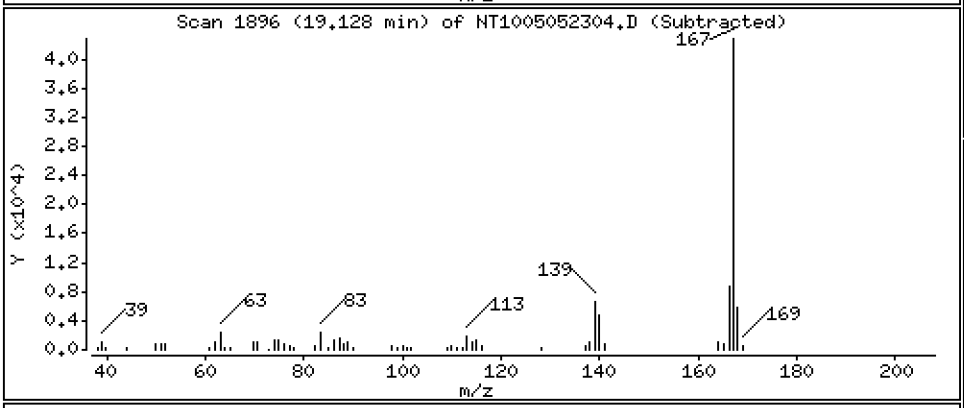
Column phase: ZB-5msi

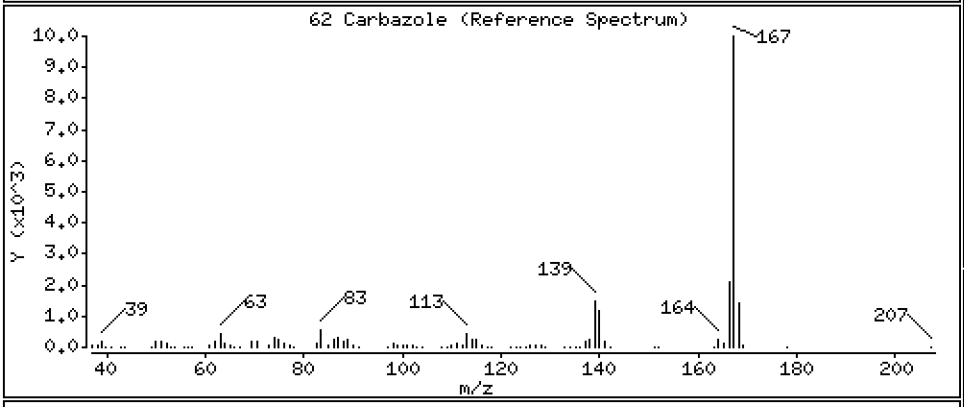
Column diameter: 0.25

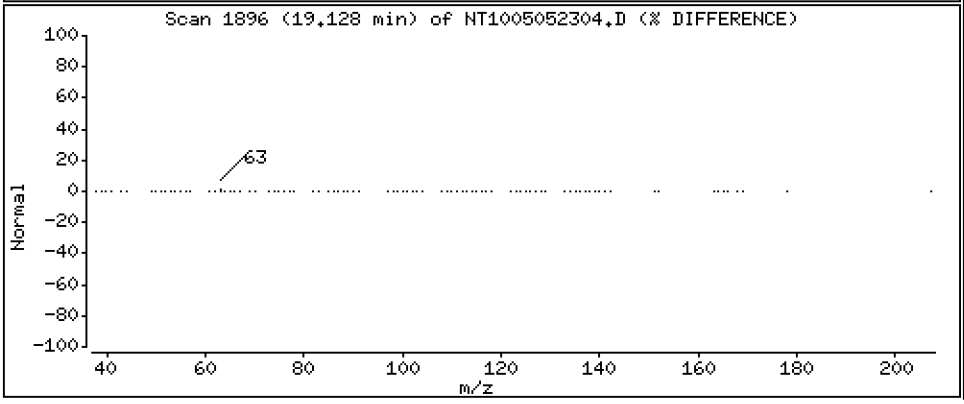
62 Carbazole

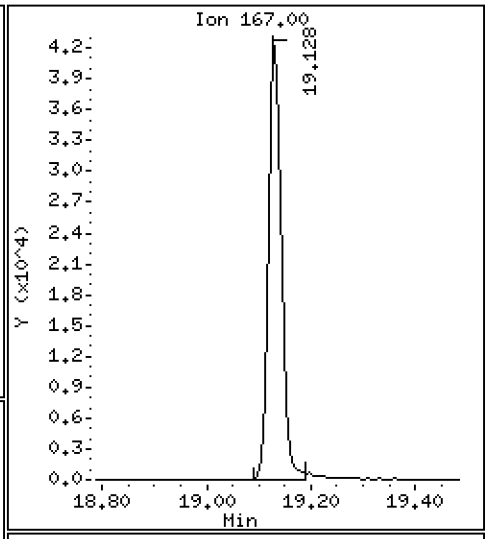
Concentration: 0.4257 ug/mL

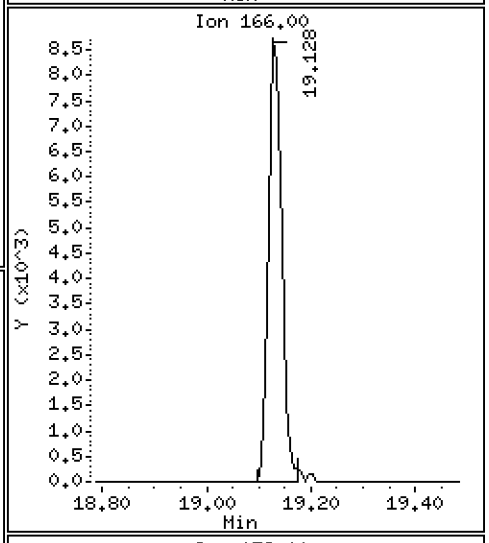


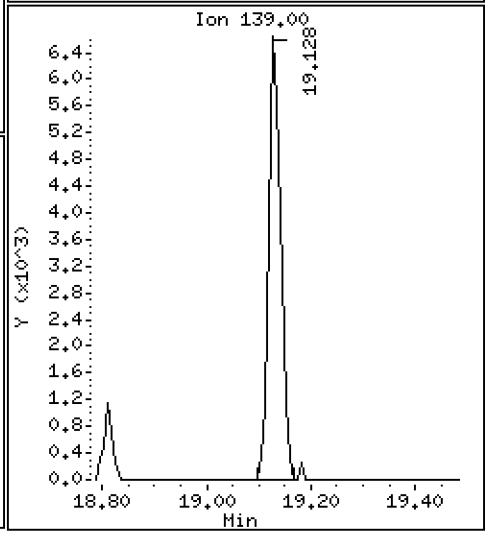












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

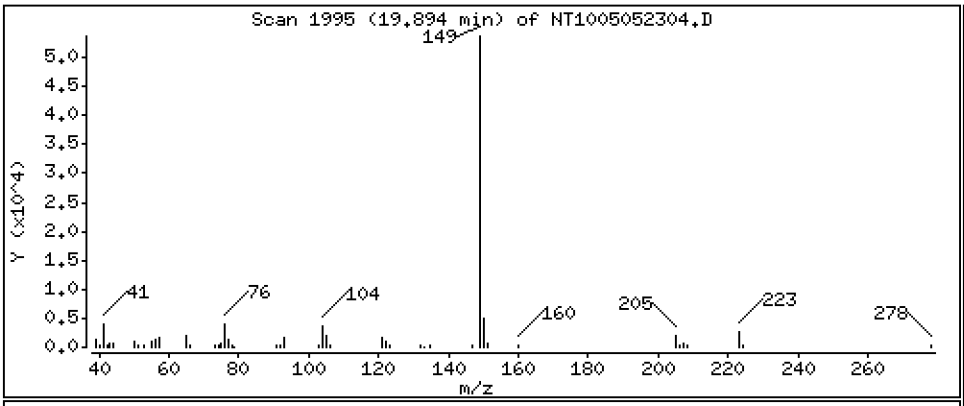
Operator: VTS

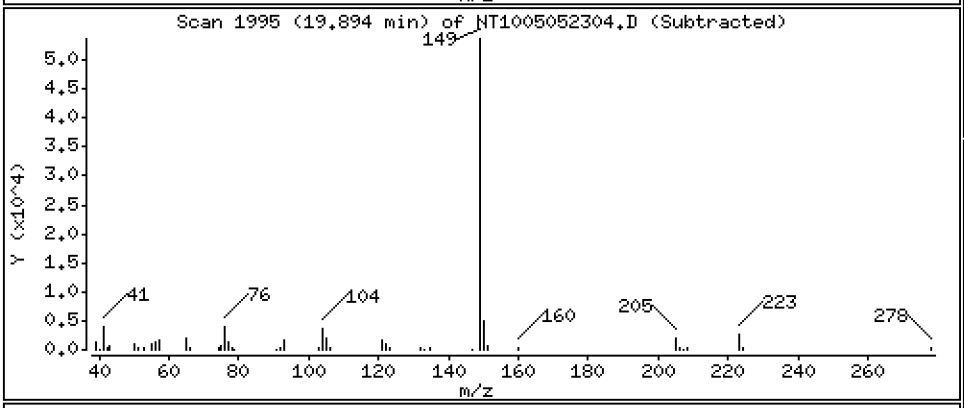
Column phase: ZB-5msi

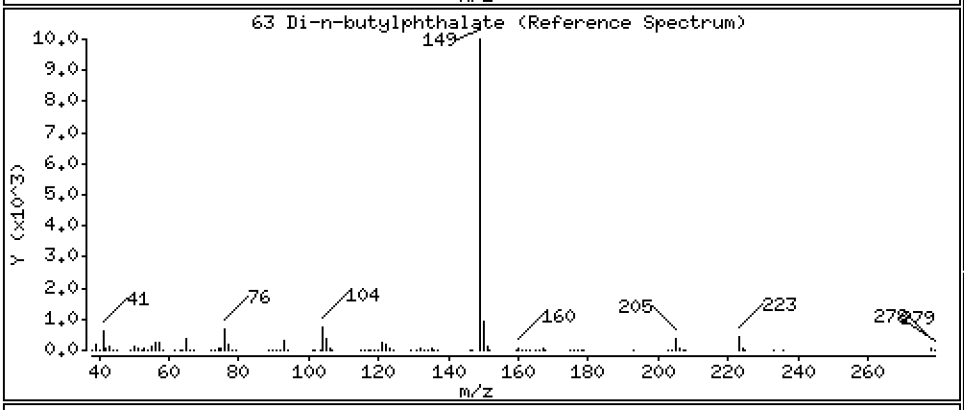
Column diameter: 0.25

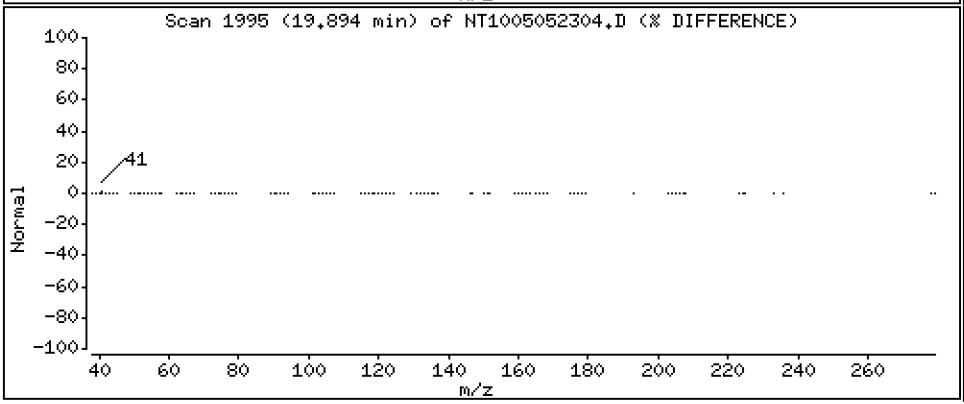
63 Di-n-butylphthalate

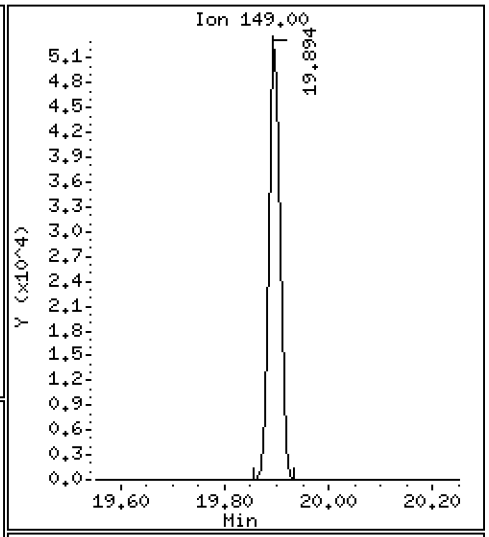
Concentration: 0.3040 ug/mL

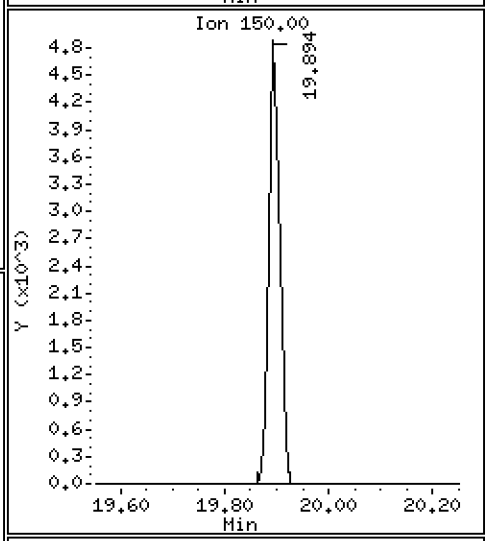


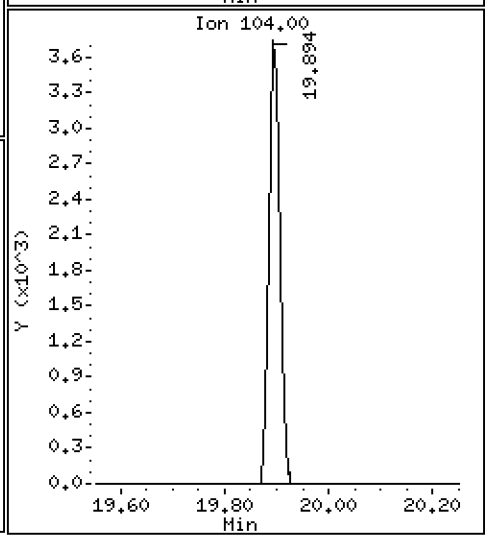












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

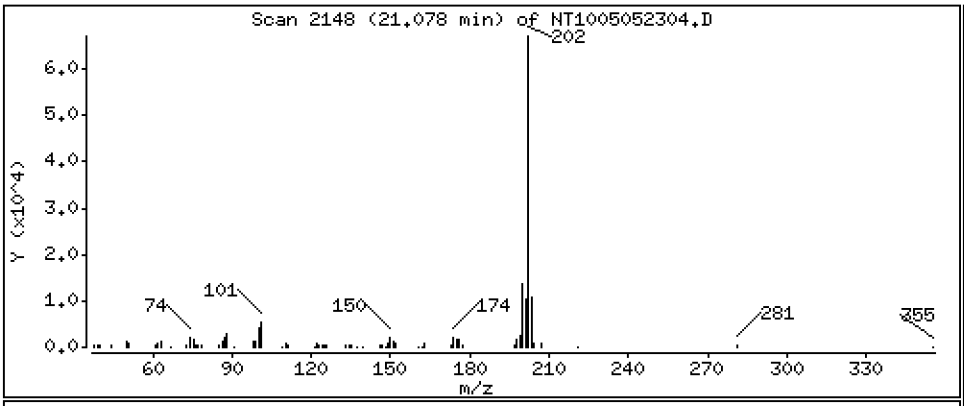
Operator: VTS

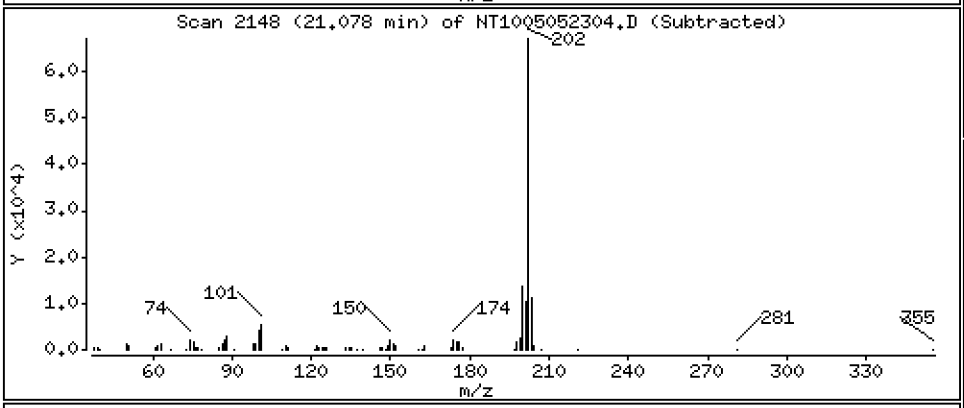
Column phase: ZB-5msi

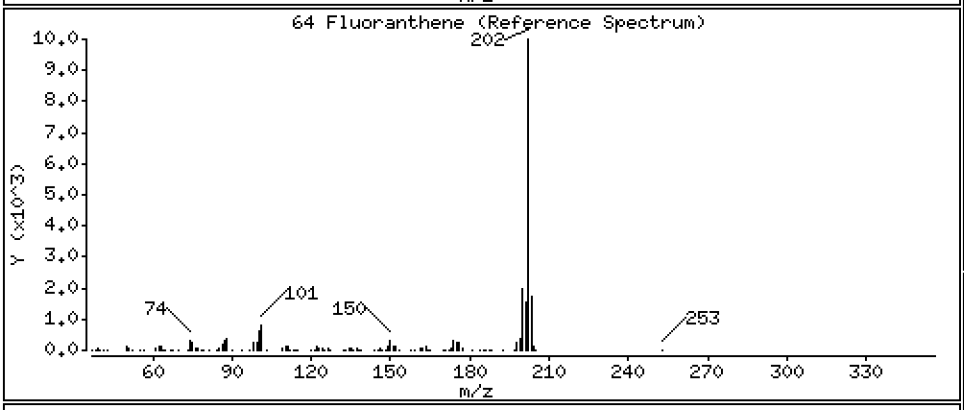
Column diameter: 0.25

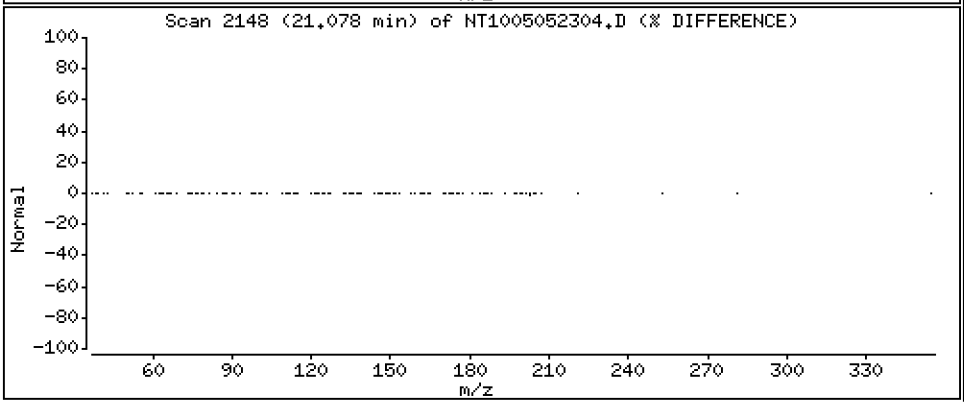
64 Fluoranthene

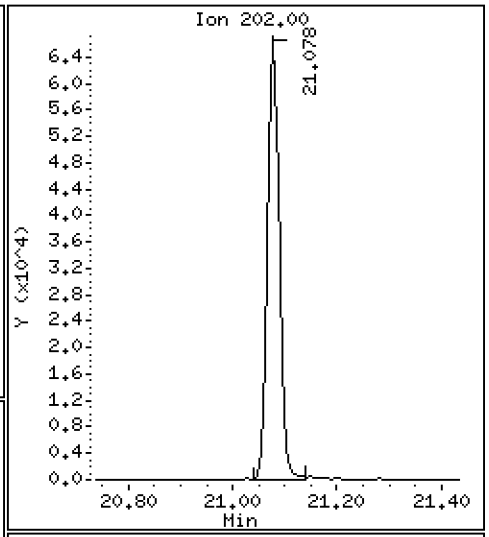
Concentration: 0.3827 ug/mL

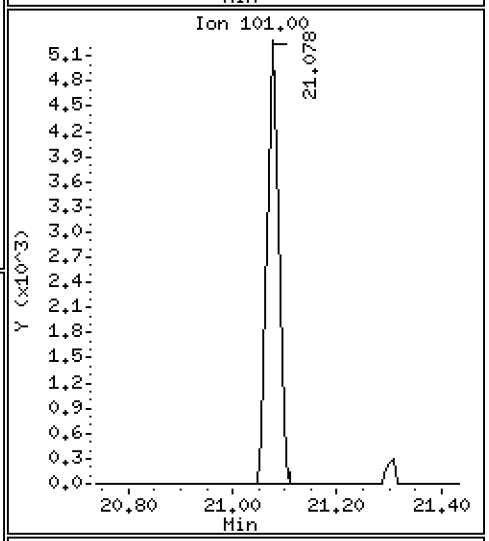


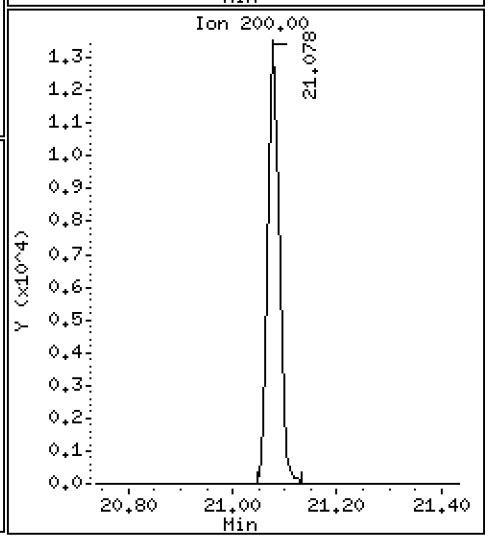












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

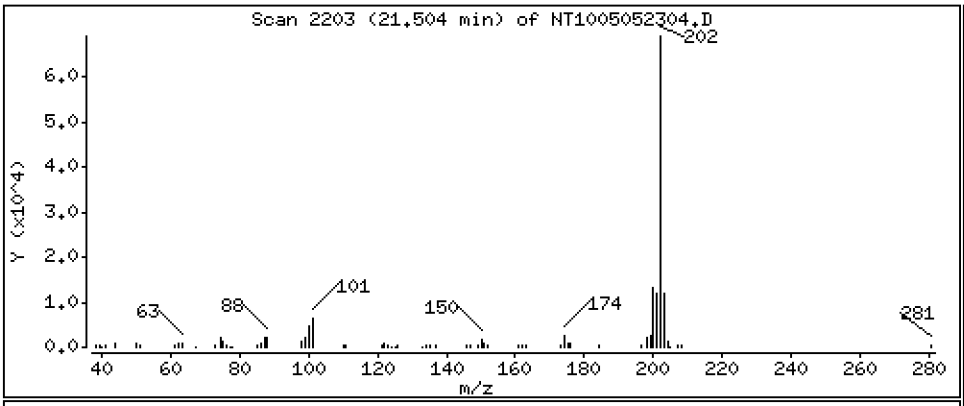
Operator: VTS

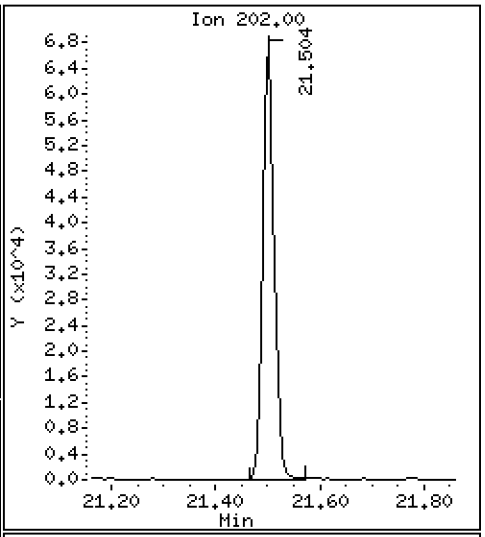
Column phase: ZB-5msi

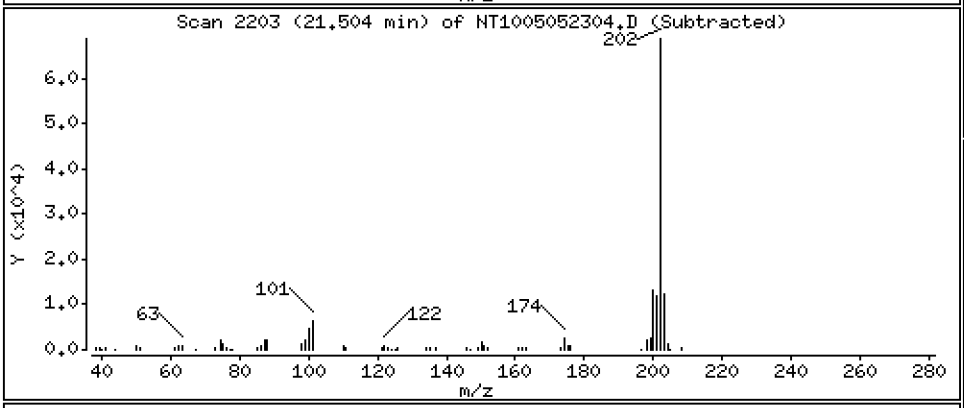
Column diameter: 0.25

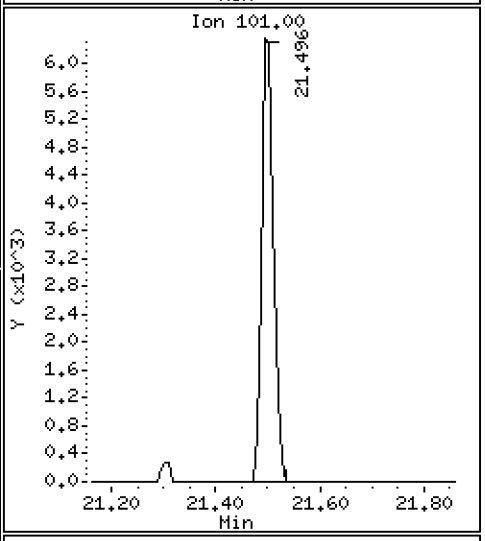
65 Pyrene

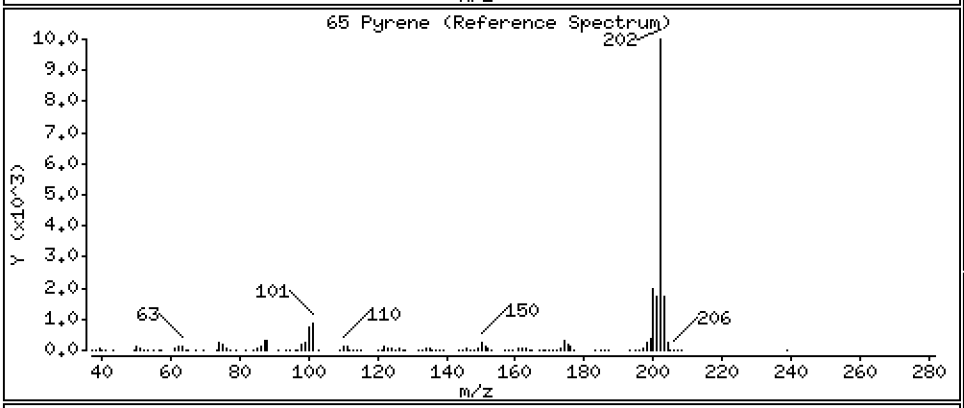
Concentration: 0.3974 ug/mL

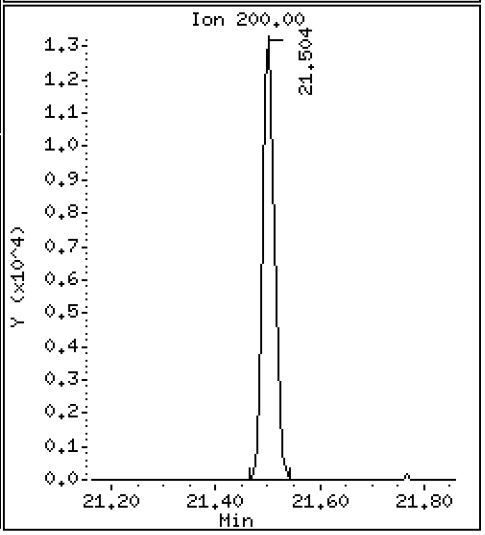


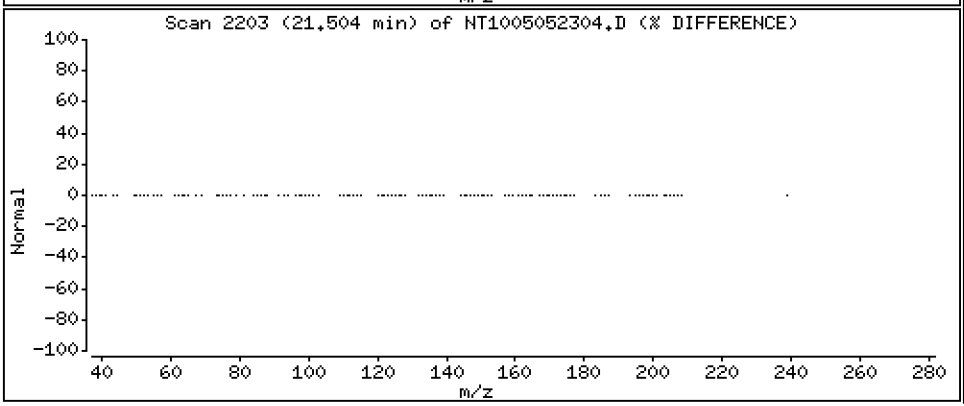












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

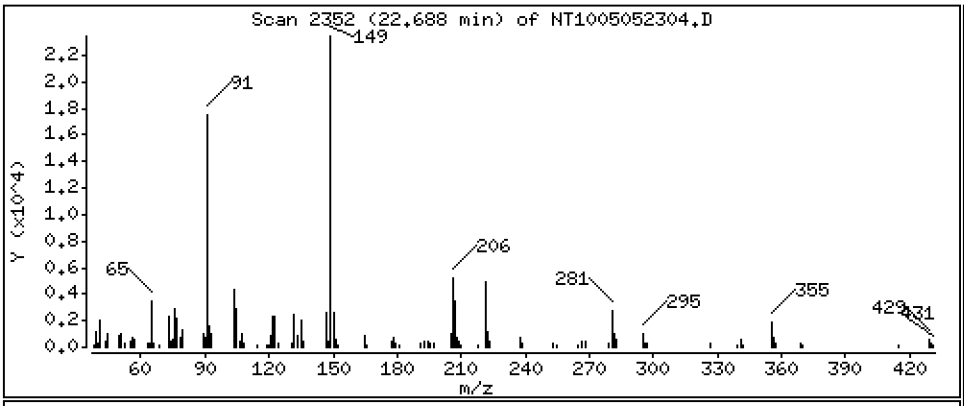
Operator: VTS

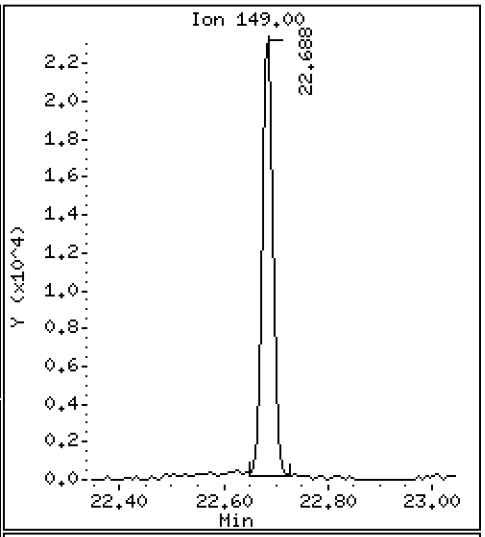
Column phase: ZB-5msi

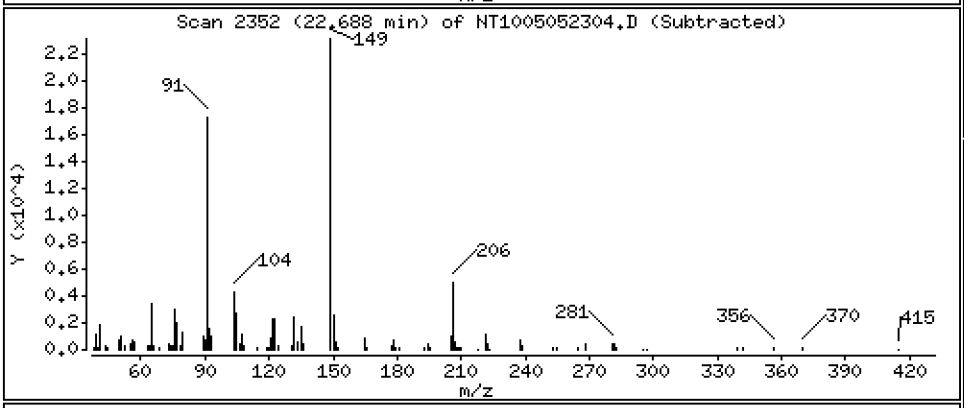
Column diameter: 0.25

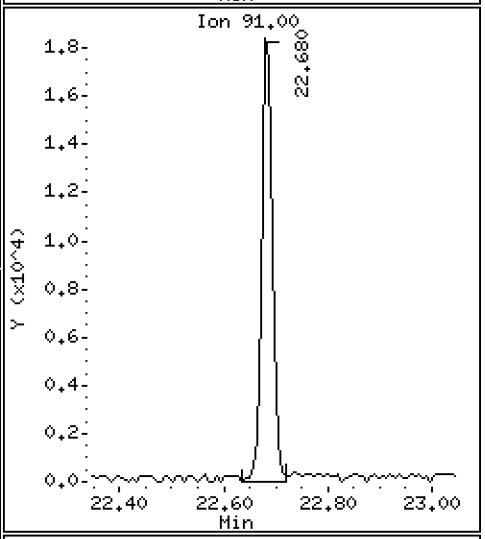
67 Butylbenzylphthalate

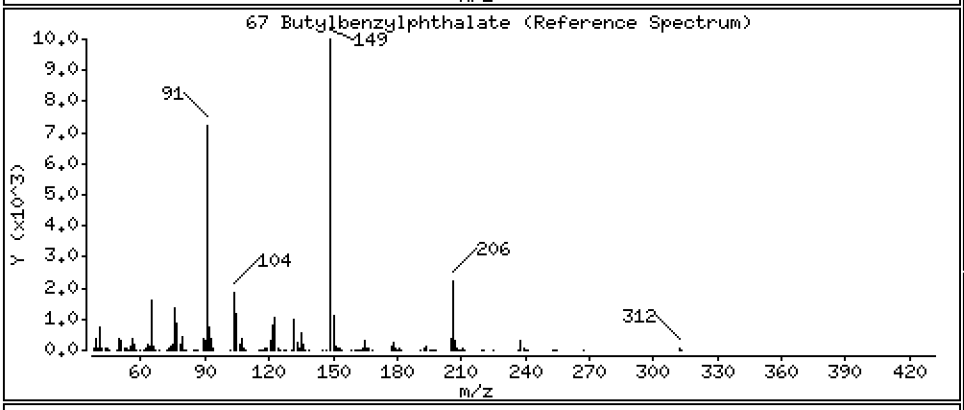
Concentration: 0.2605 ug/mL

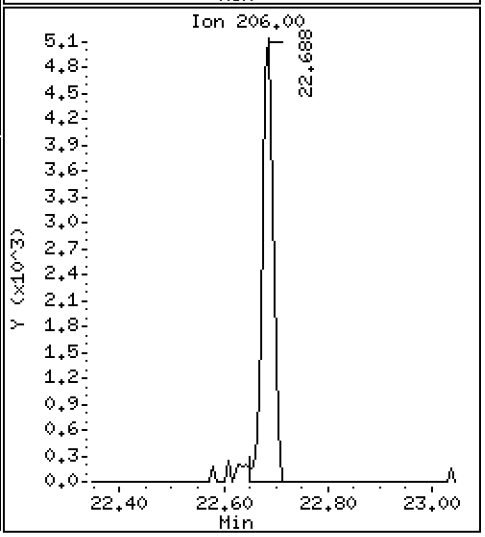


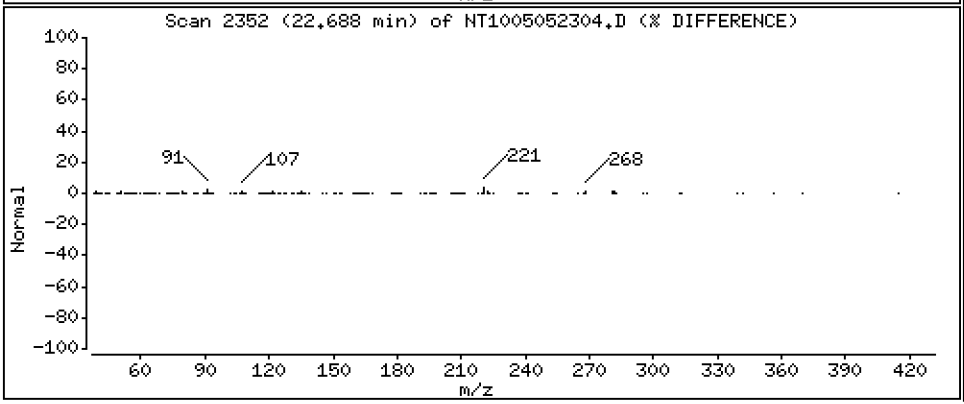












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

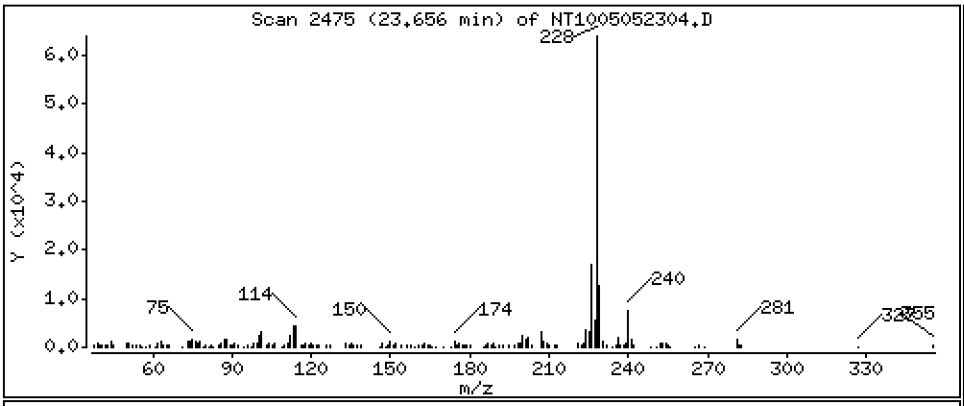
Operator: VTS

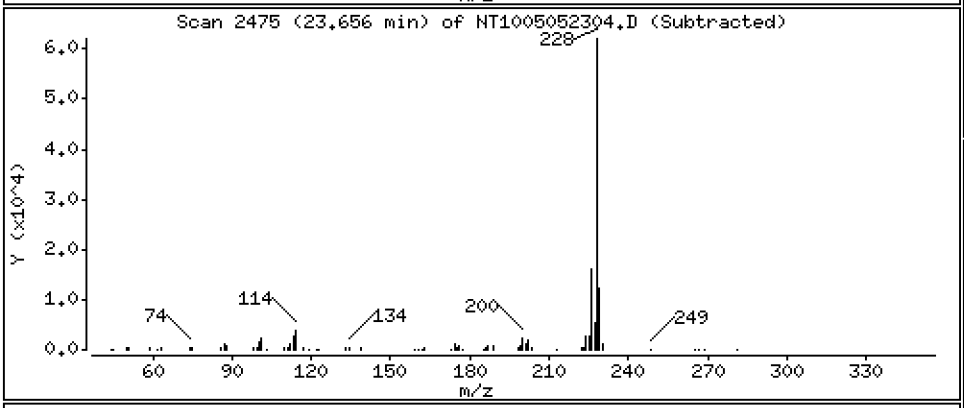
Column phase: ZB-5msi

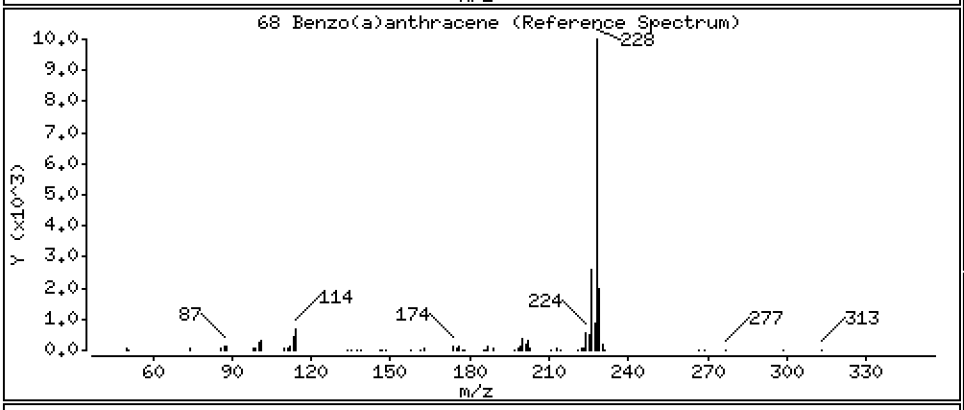
Column diameter: 0.25

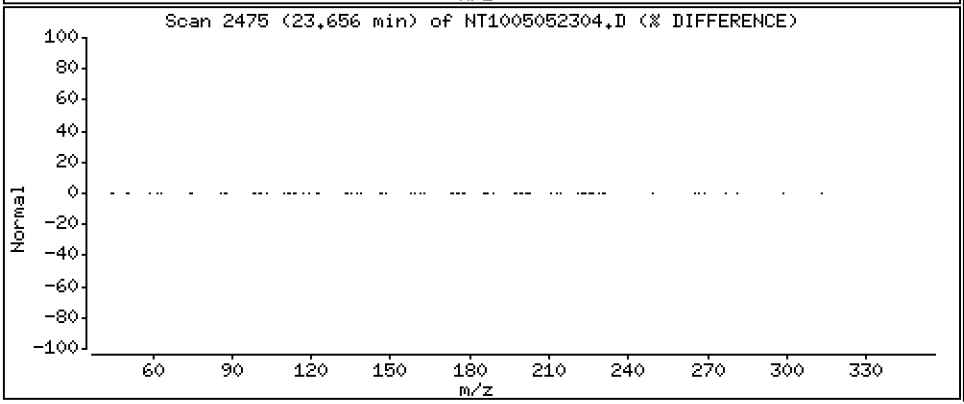
68 Benzo(a)anthracene

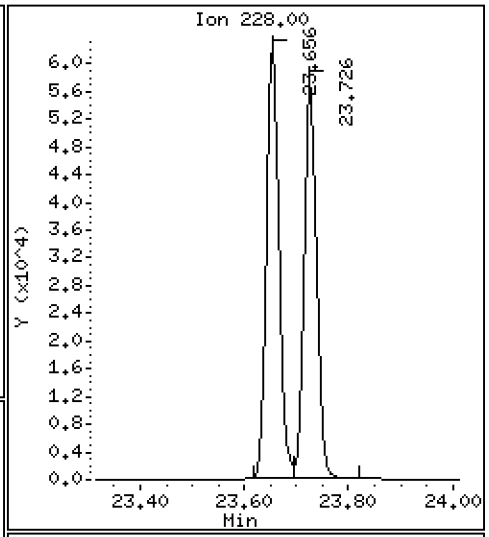
Concentration: 0.4338 ug/mL

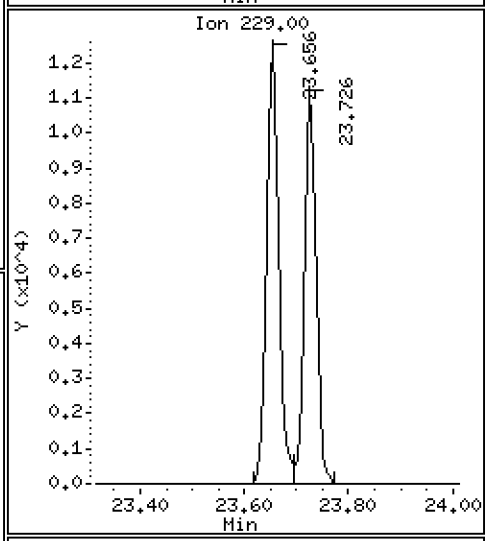


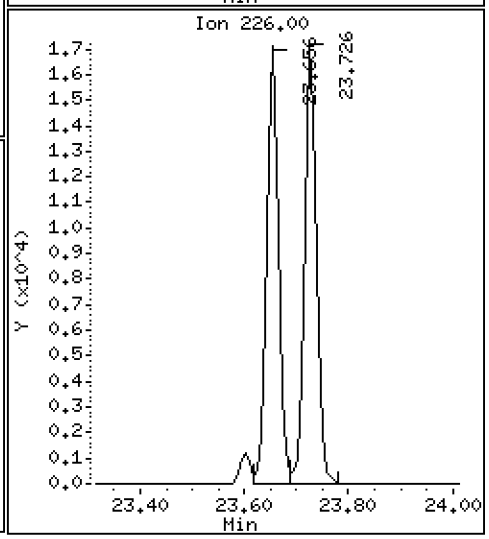












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

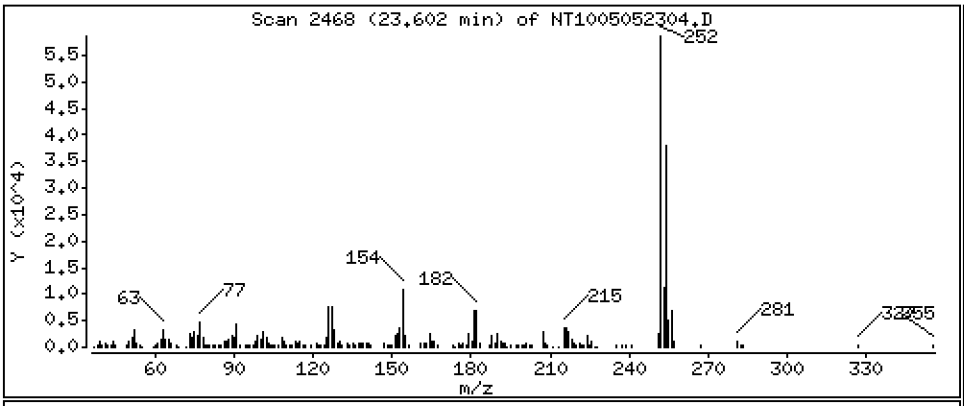
Operator: VTS

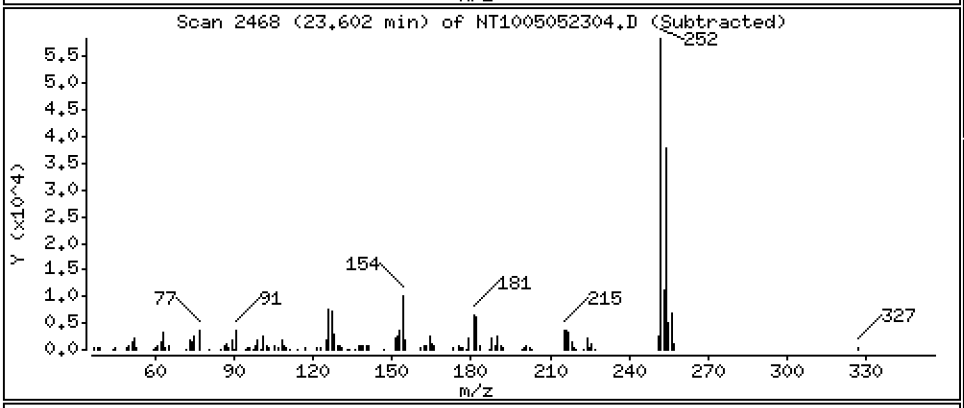
Column phase: ZB-5msi

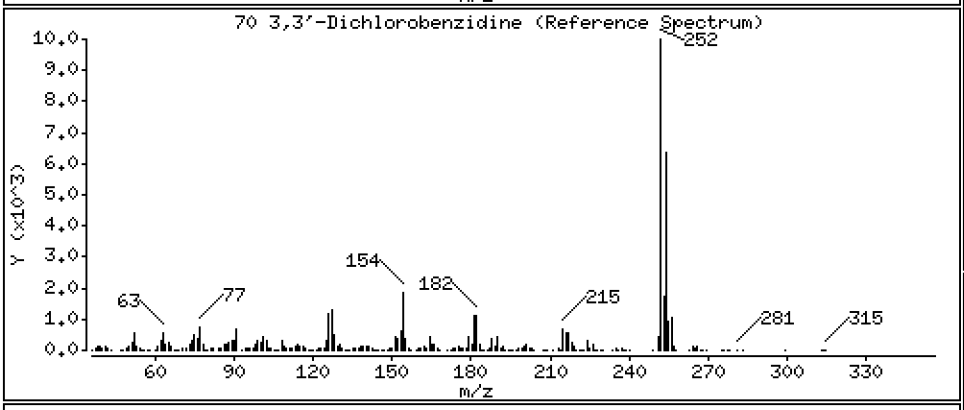
Column diameter: 0.25

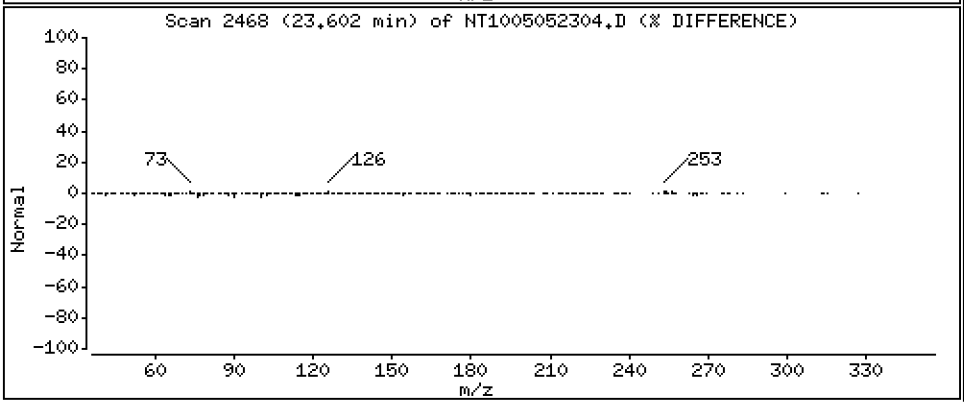
70 3,3'-Dichlorobenzidine

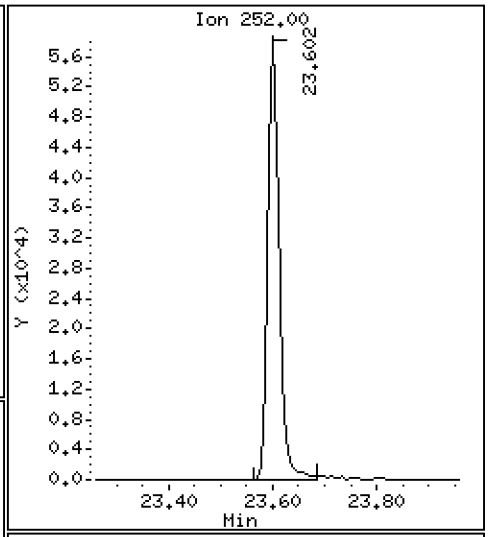
Concentration: 1.201 ug/mL

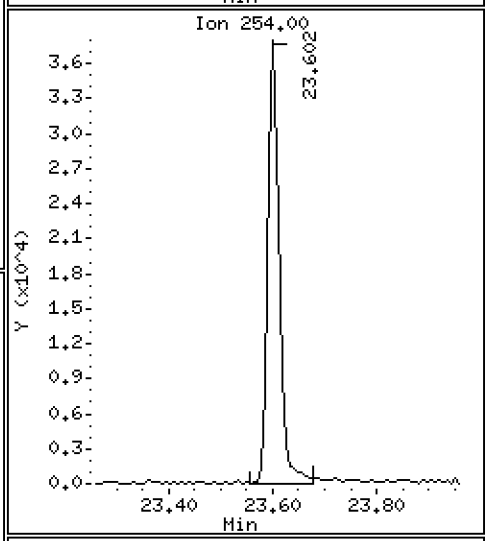


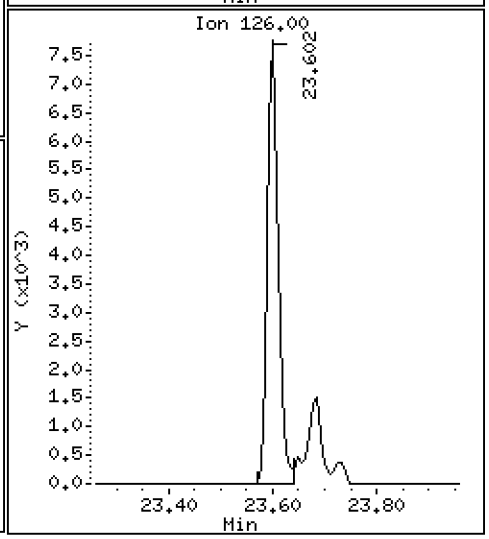












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

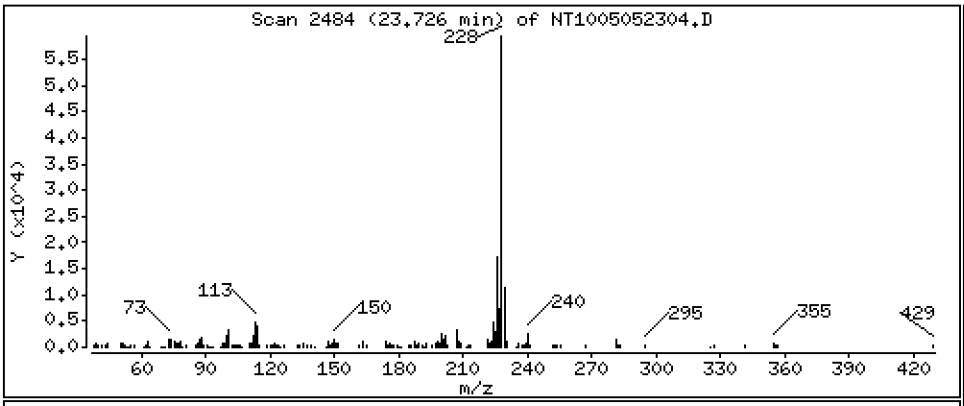
Operator: VTS

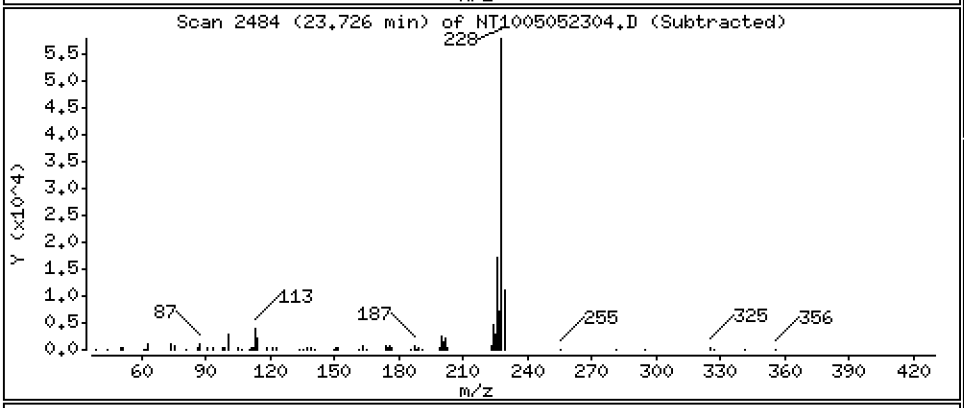
Column phase: ZB-5msi

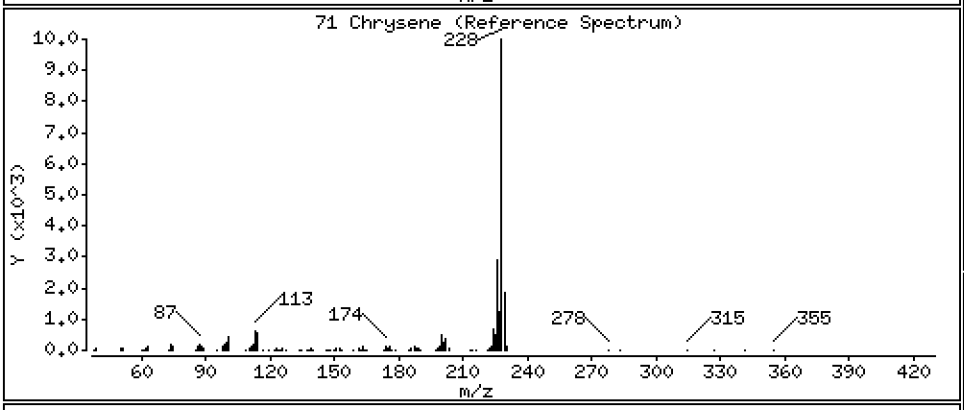
Column diameter: 0.25

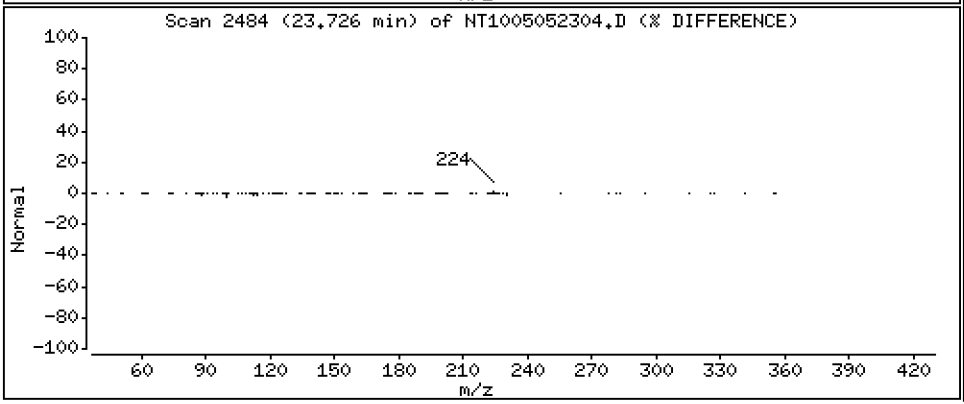
71 Chrysene

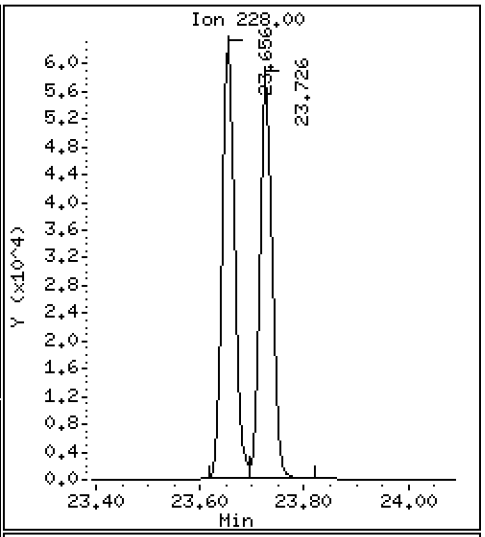
Concentration: 0.4506 ug/mL

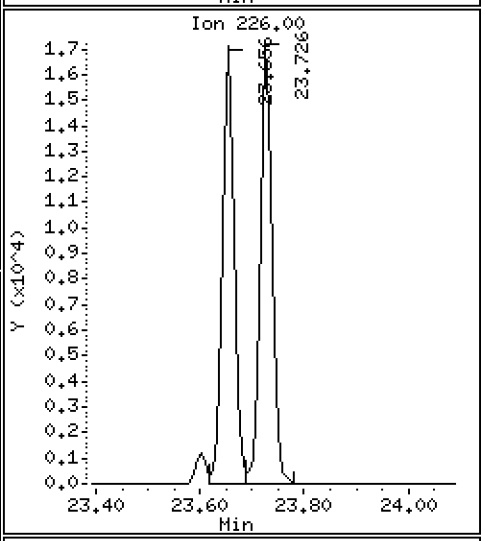


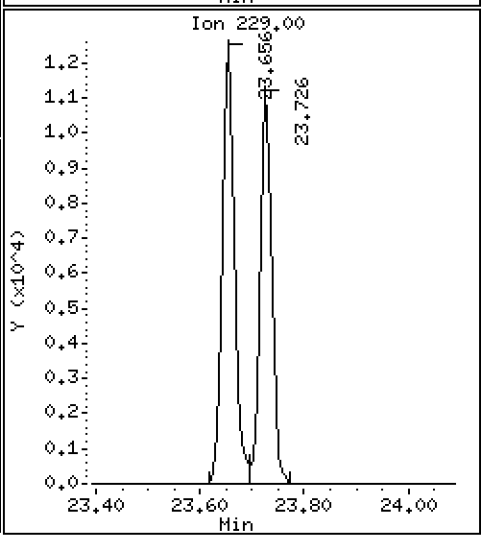












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

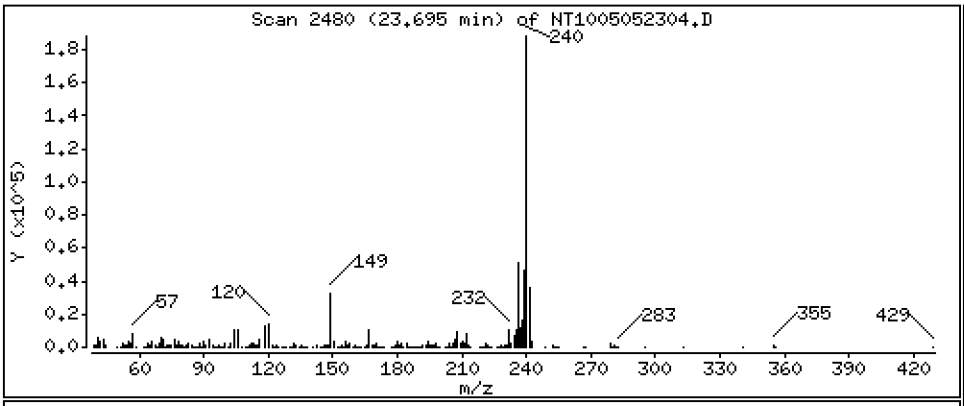
Operator: VTS

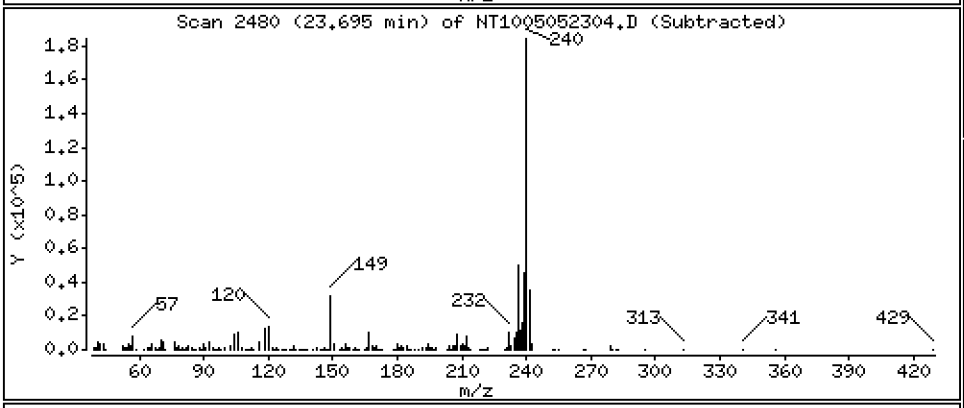
Column phase: ZB-5msi

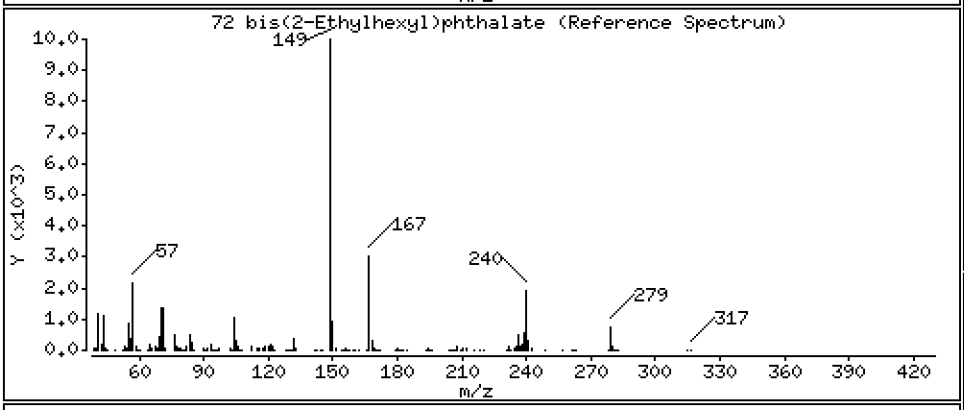
Column diameter: 0.25

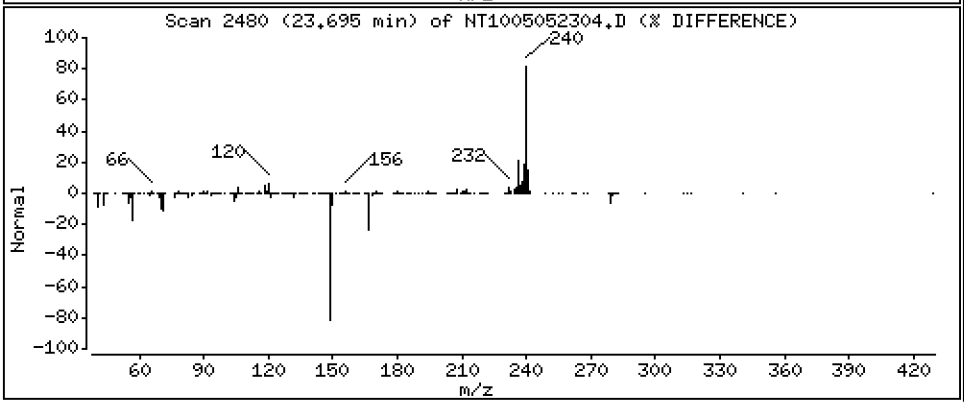
72 bis(2-Ethylhexyl)phthalate

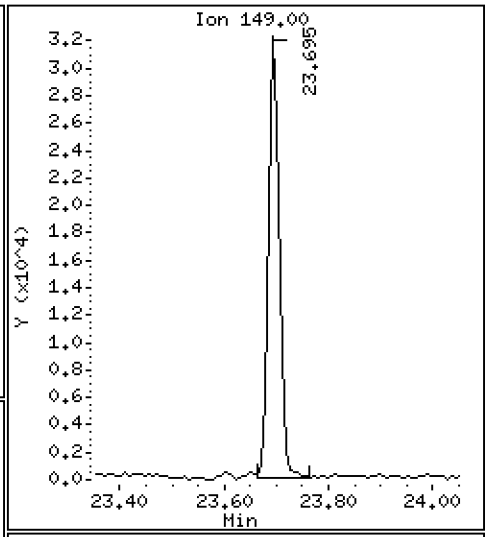
Concentration: 0.3823 ug/mL

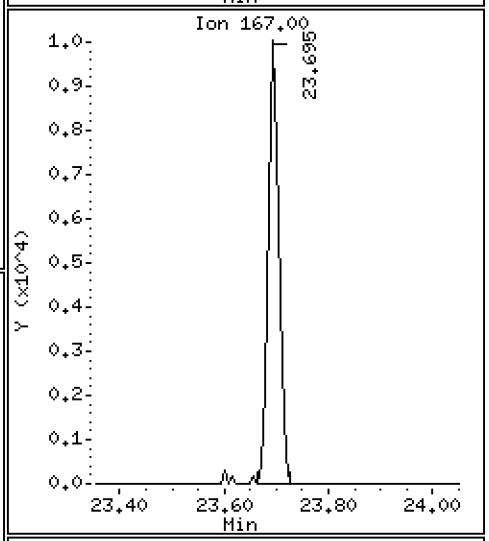


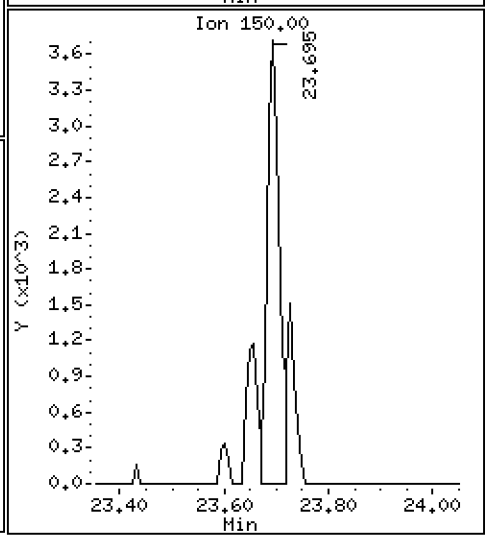












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

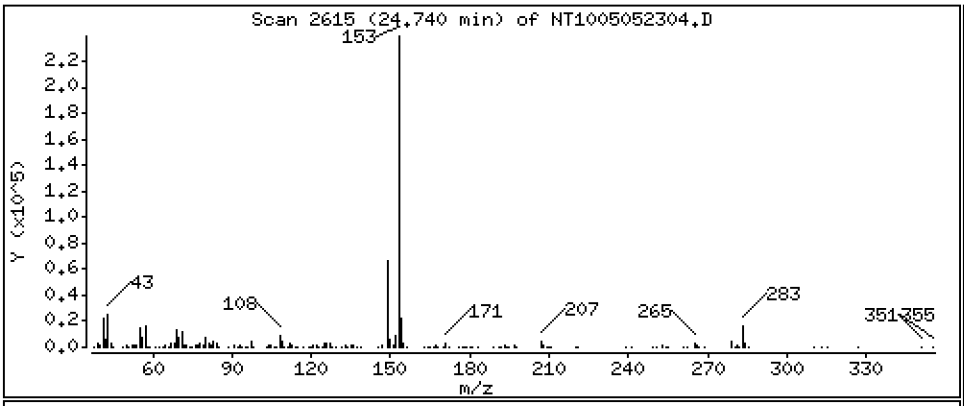
Operator: VTS

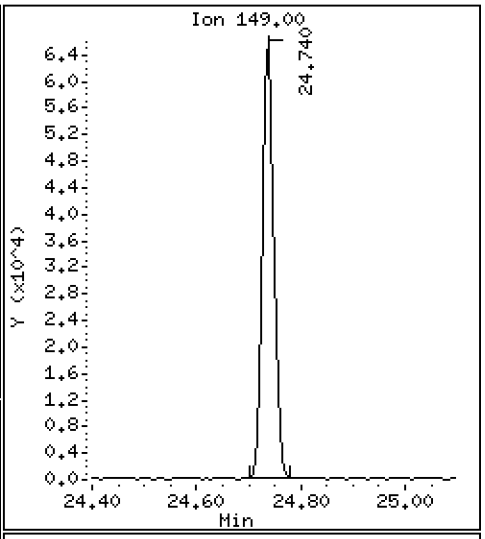
Column phase: ZB-5msi

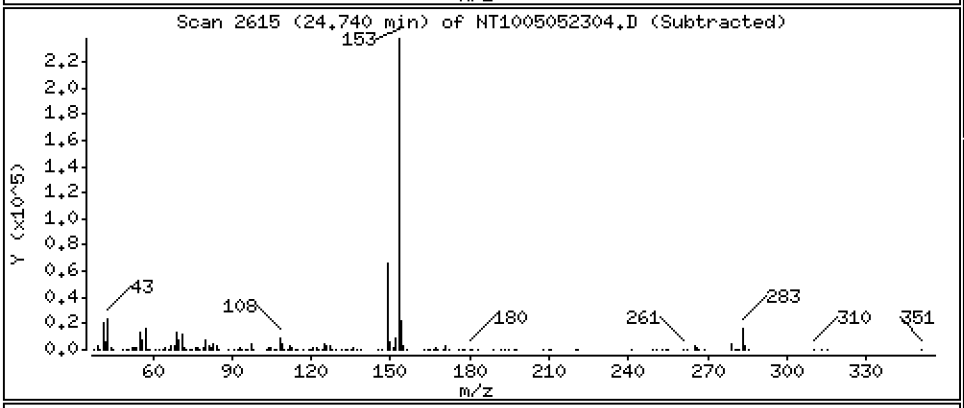
Column diameter: 0.25

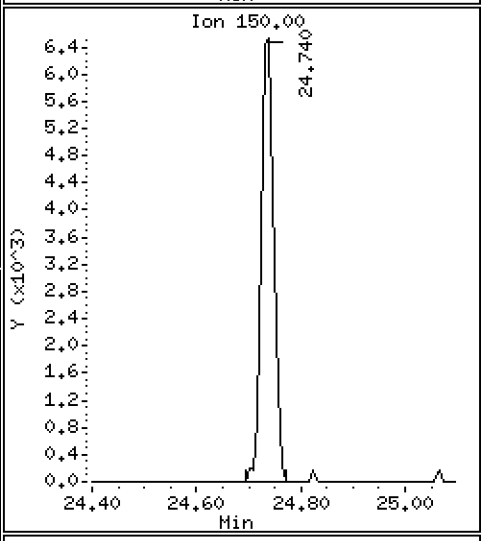
73 Di-n-octylphthalate

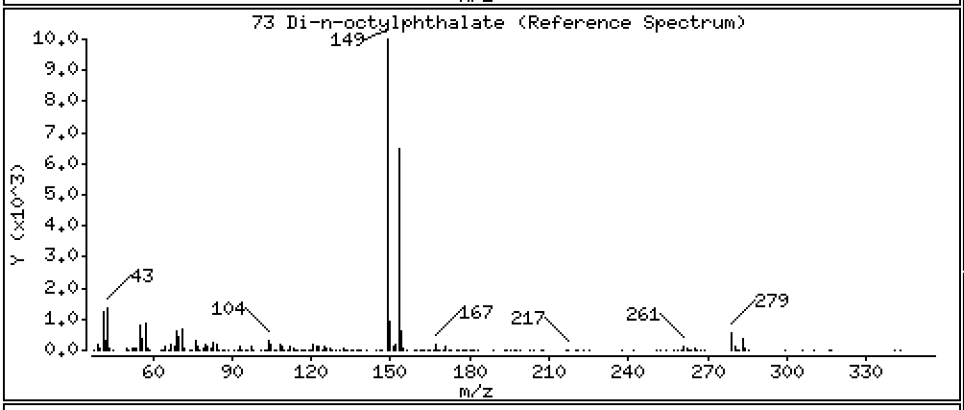
Concentration: 0.4660 ug/mL

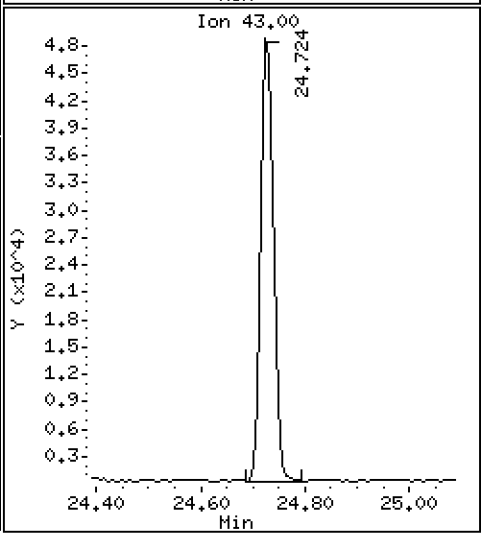


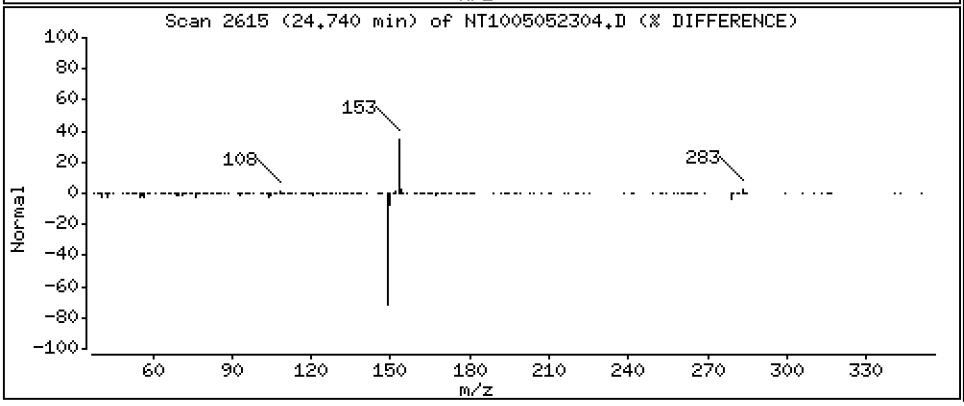












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

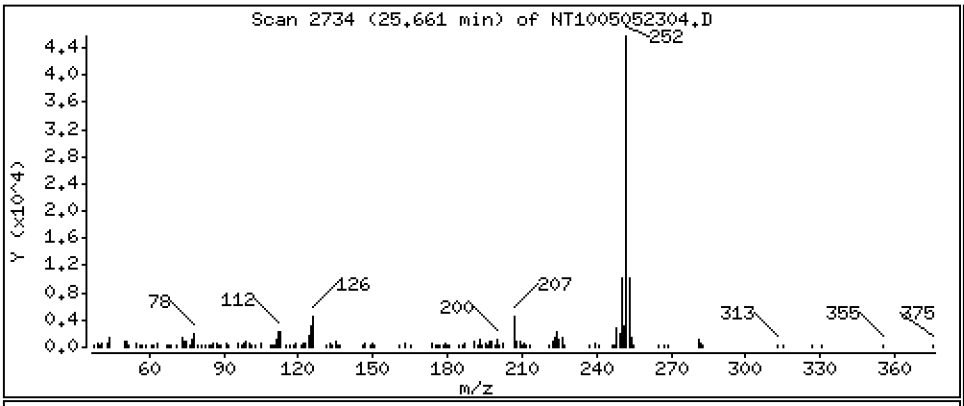
Operator: VTS

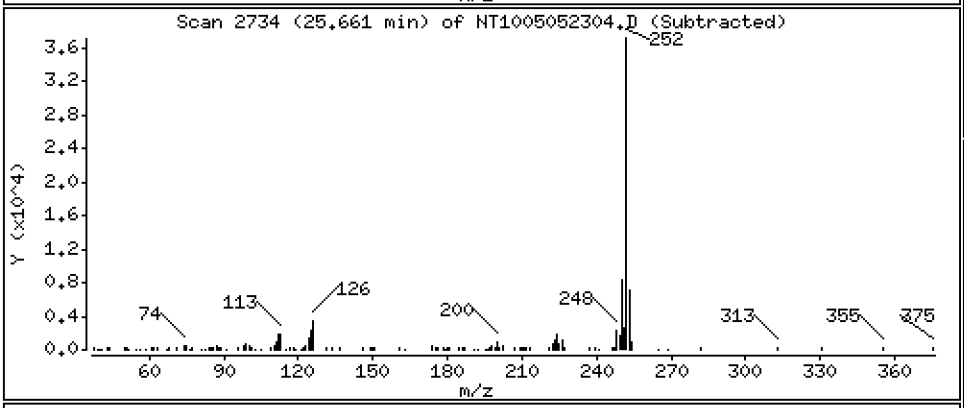
Column phase: ZB-5msi

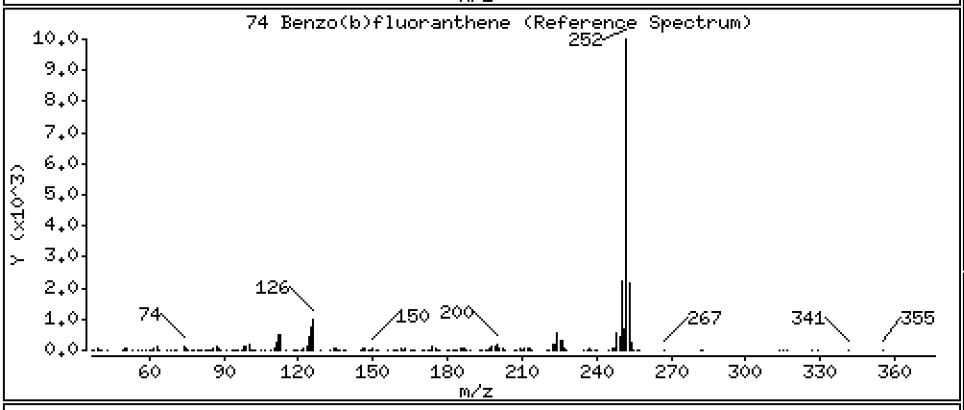
Column diameter: 0.25

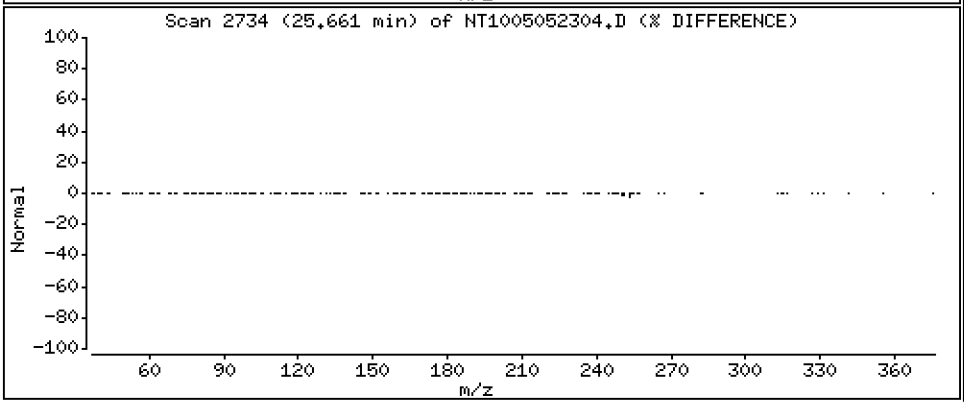
74 Benzo(b)fluoranthene

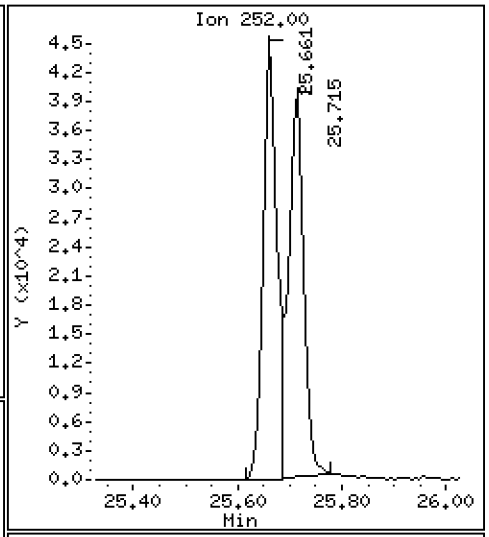
Concentration: 0.3897 ug/mL

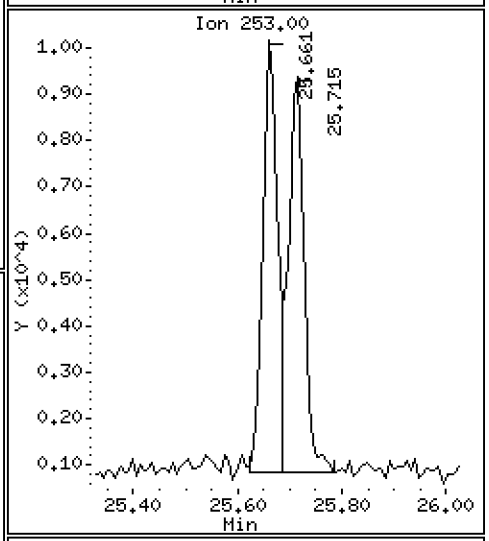


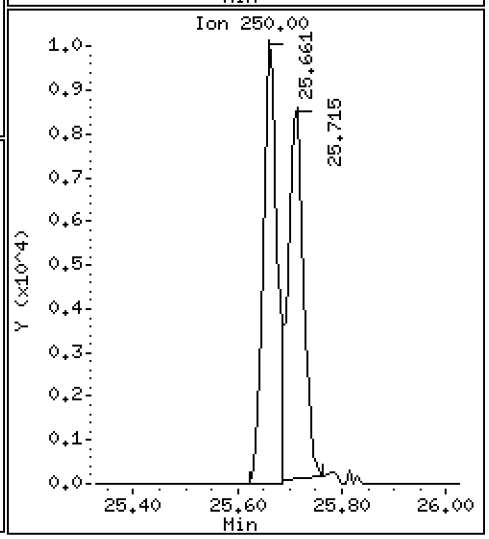












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

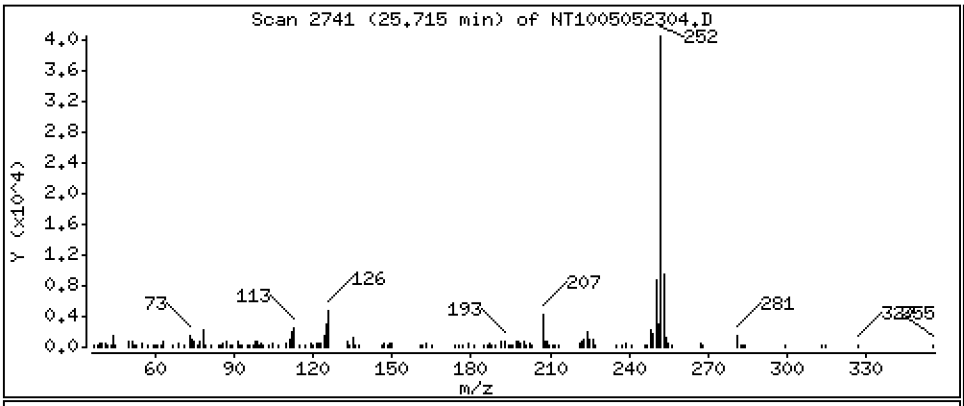
Operator: VTS

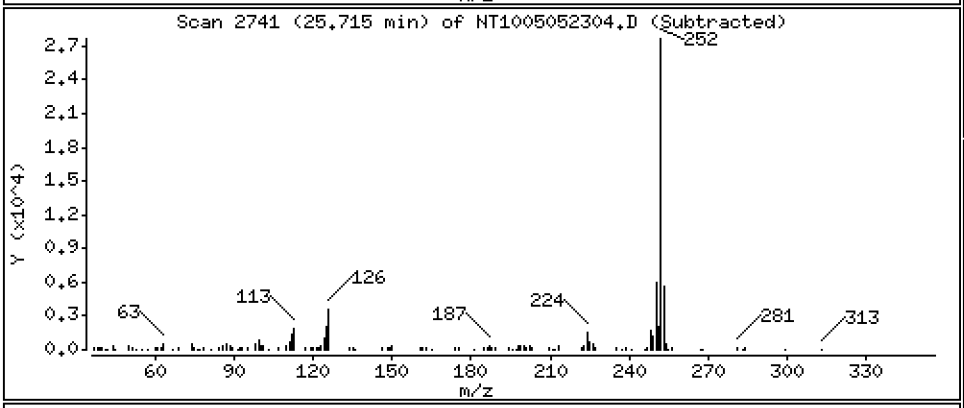
Column phase: ZB-5msi

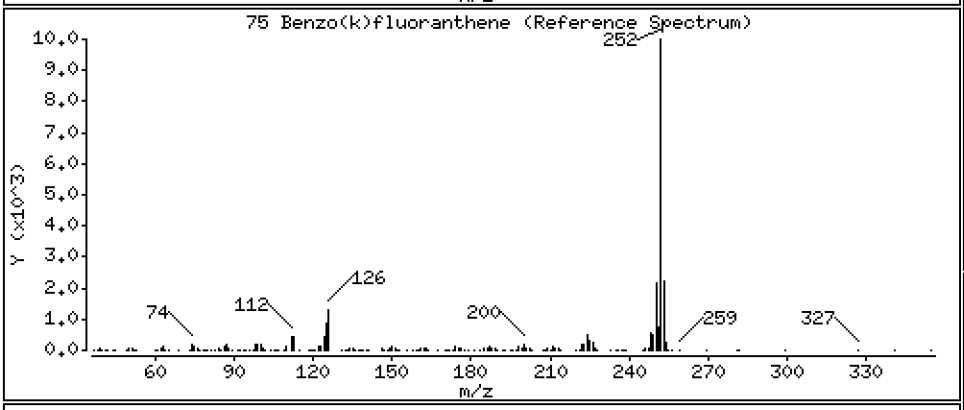
Column diameter: 0.25

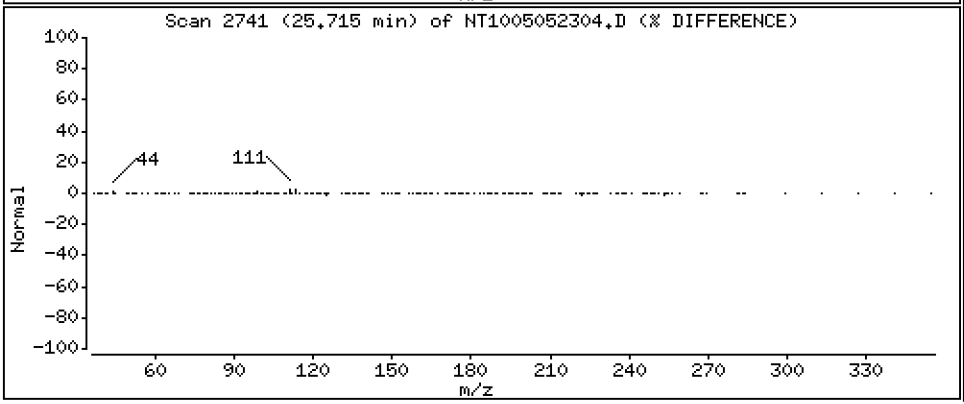
75 Benzo(k)fluoranthene

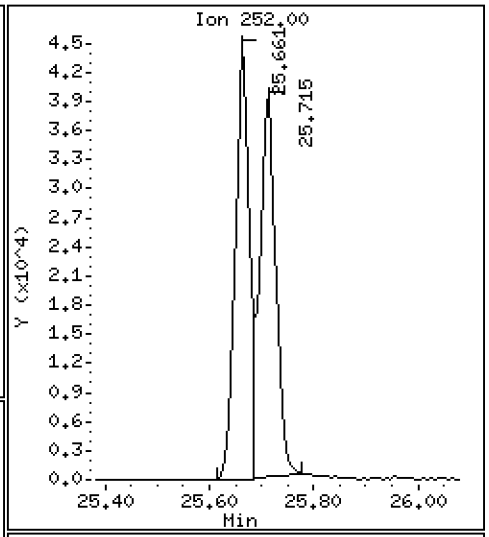
Concentration: 0.4113 ug/mL

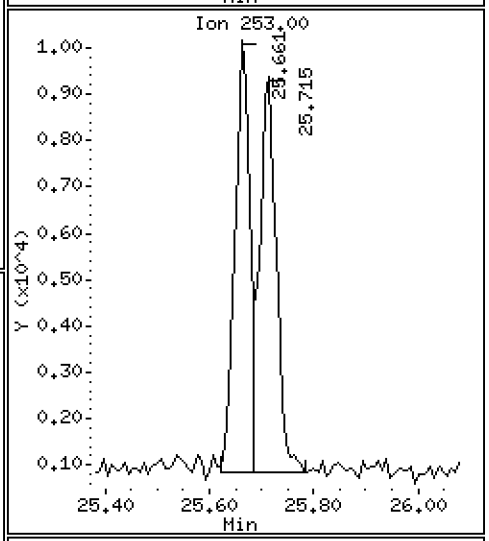


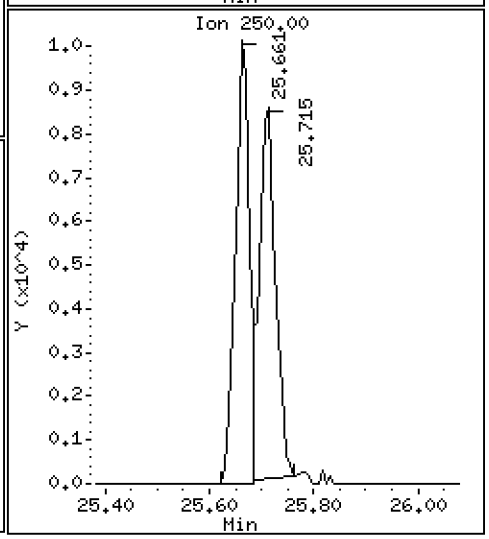












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

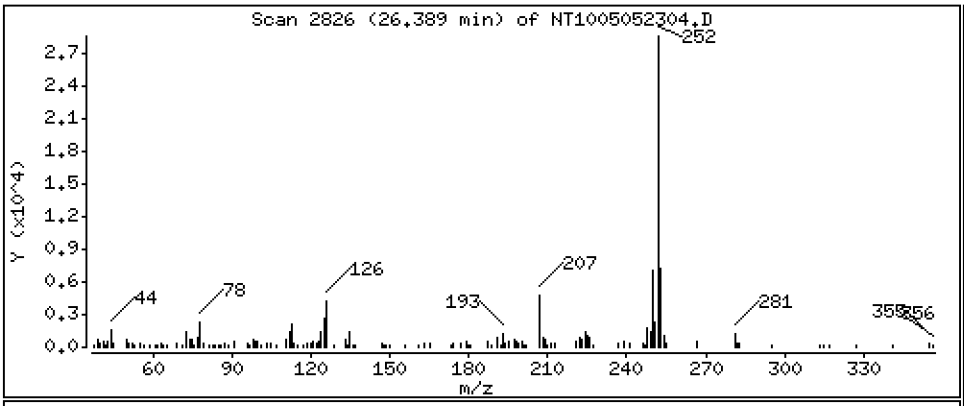
Operator: VTS

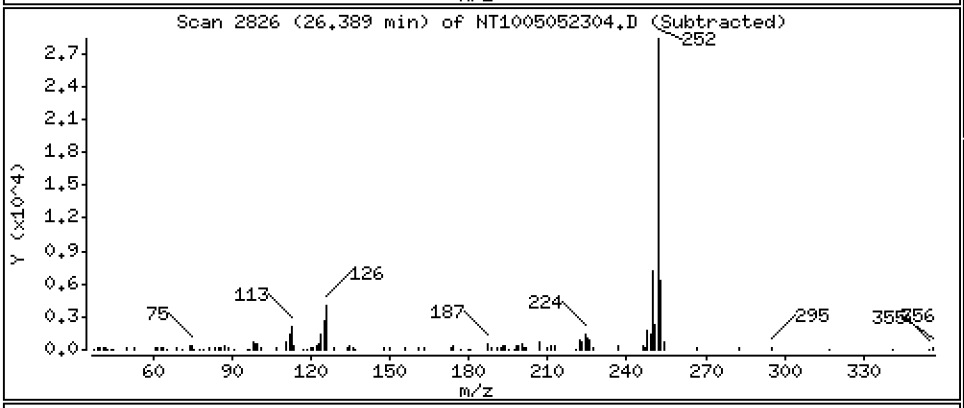
Column phase: ZB-5msi

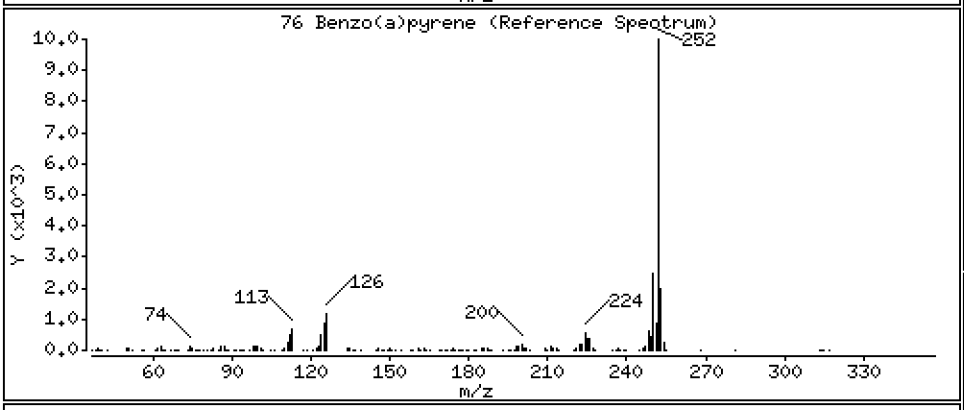
Column diameter: 0.25

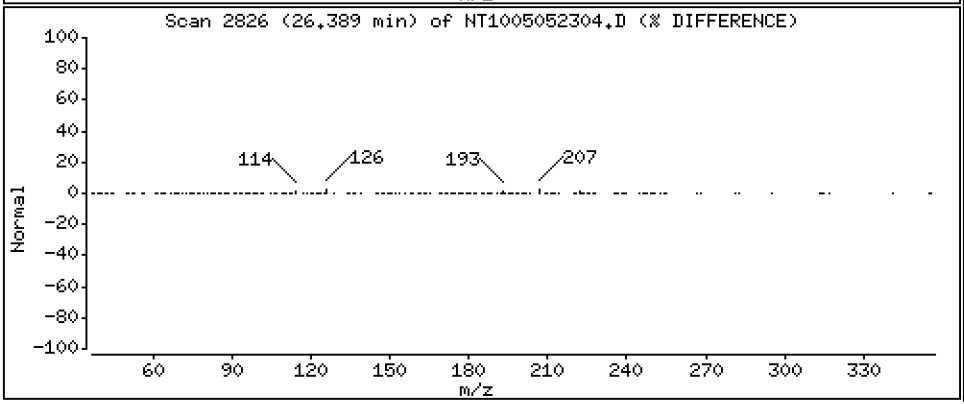
76 Benzo(a)pyrene

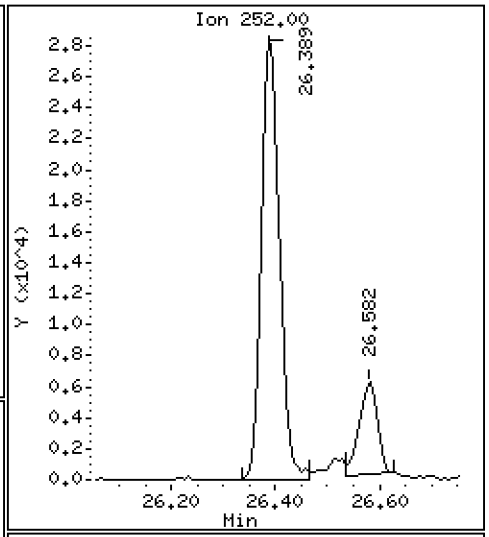
Concentration: 0.3831 ug/mL

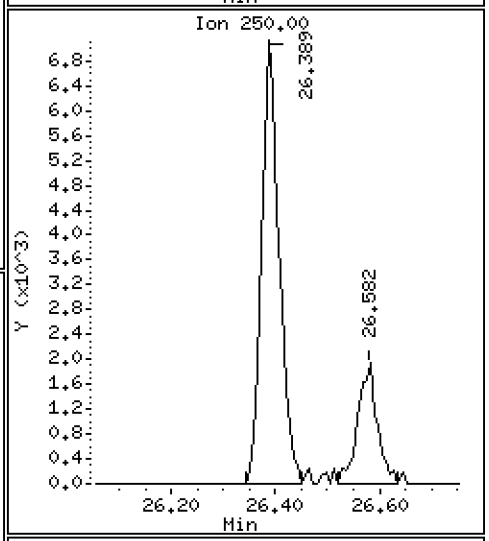


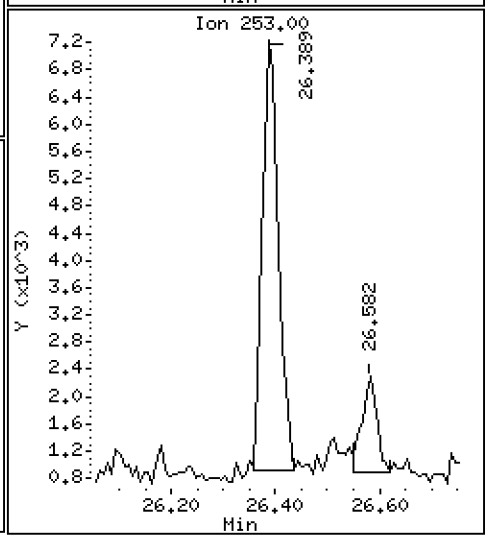












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

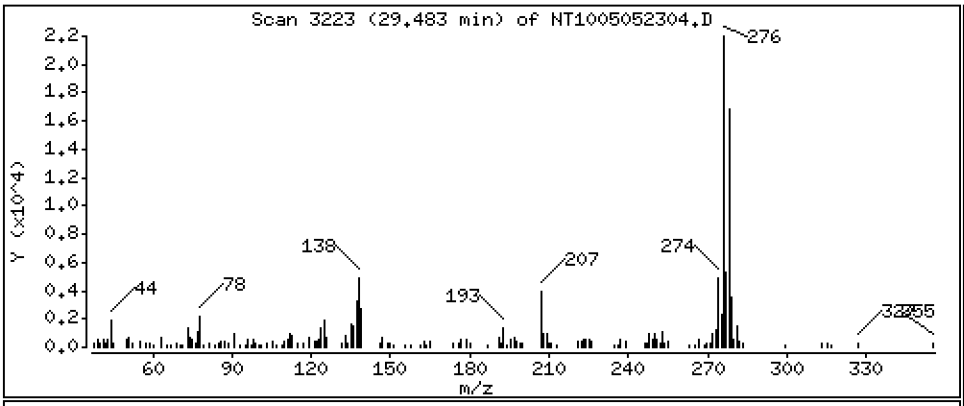
Operator: VTS

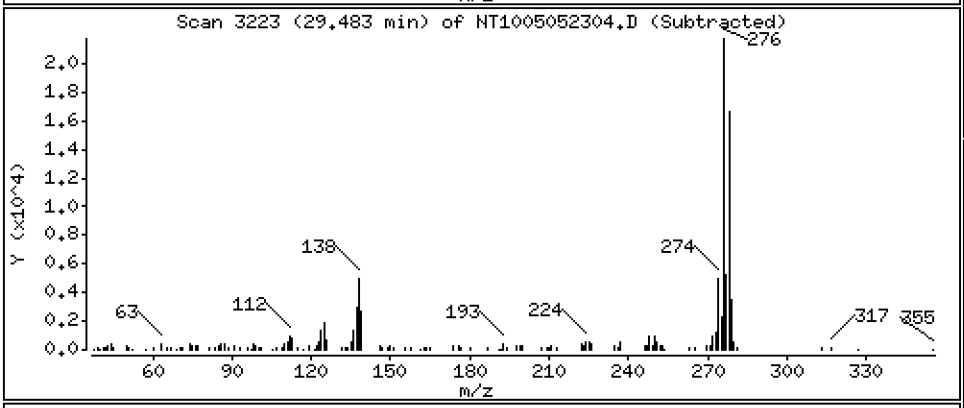
Column phase: ZB-5msi

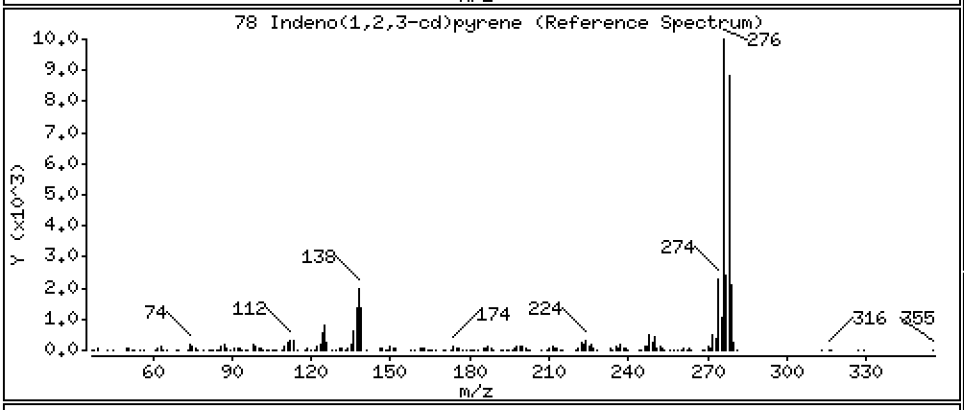
Column diameter: 0.25

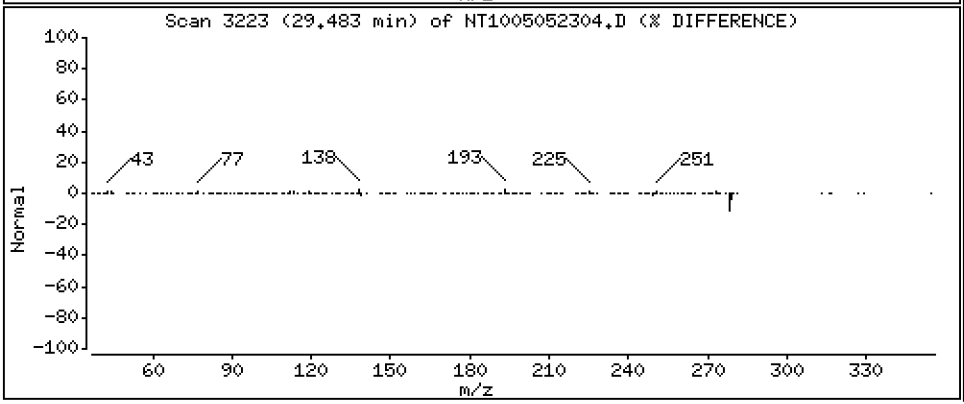
78 Indeno(1,2,3-cd)pyrene

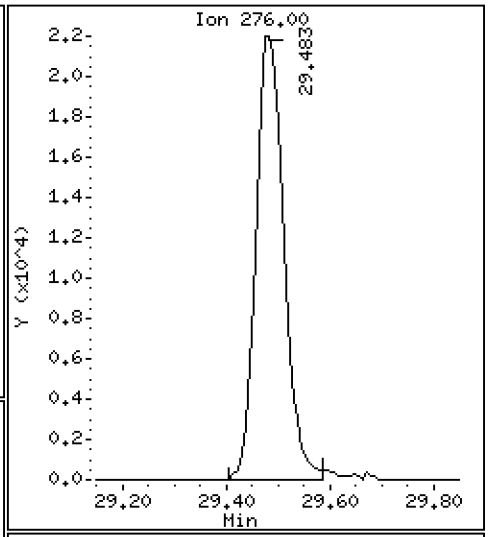
Concentration: 0.3805 ug/mL

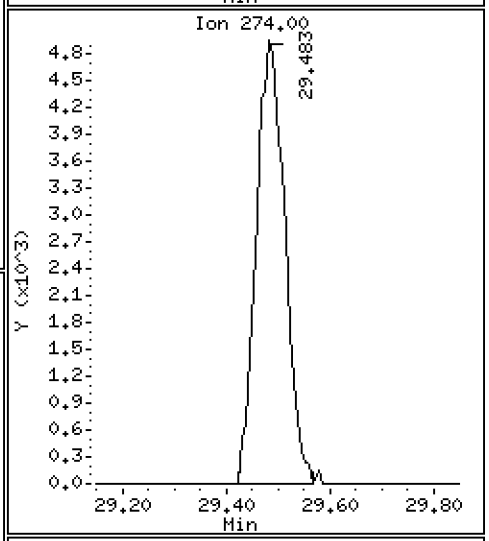


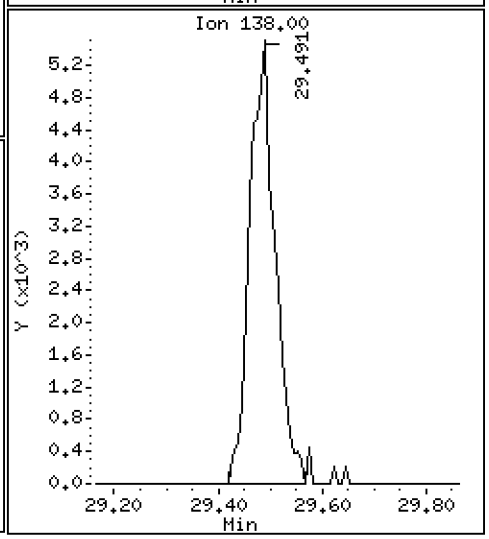












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

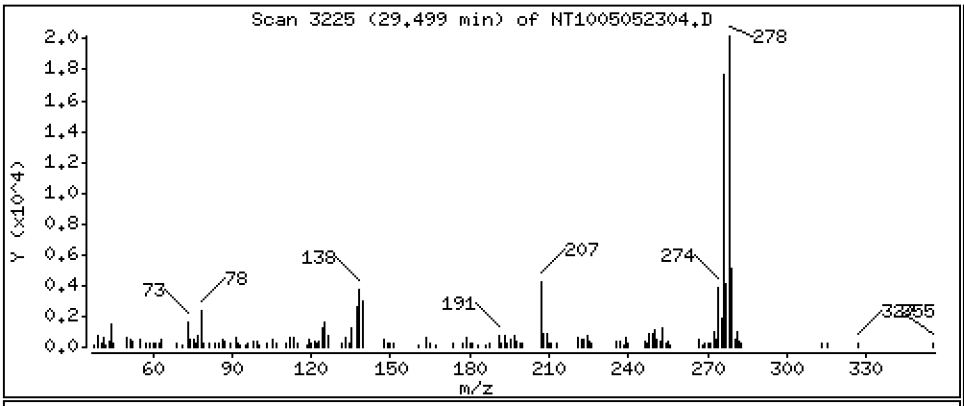
Operator: VTS

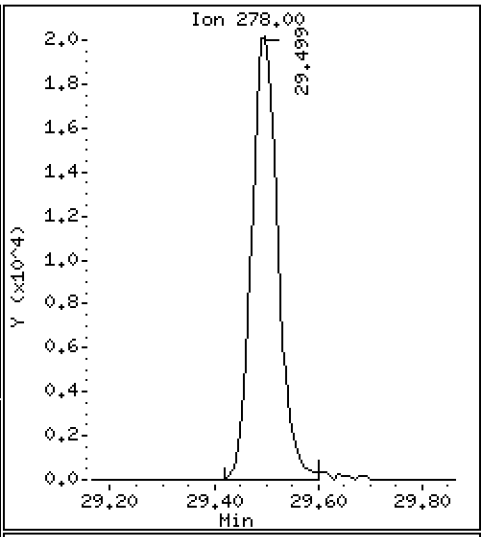
Column phase: ZB-5msi

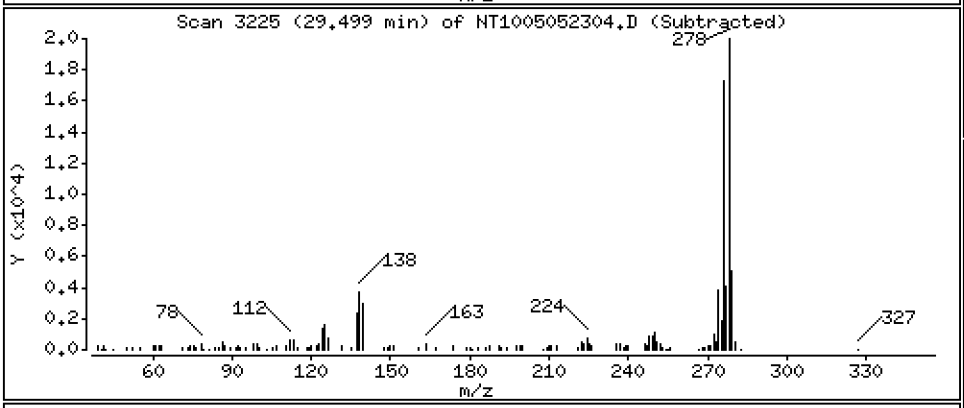
Column diameter: 0.25

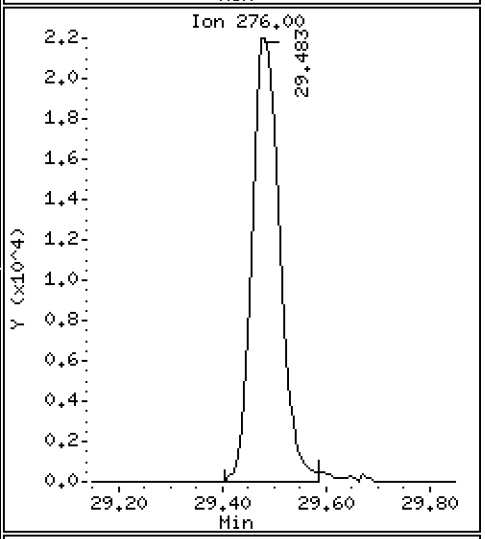
79 Dibenzo(a,h)anthracene

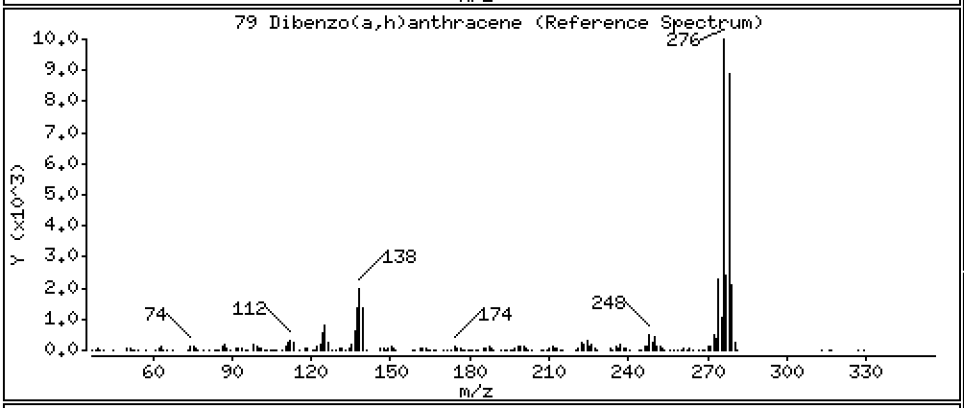
Concentration: 0.3934 ug/mL

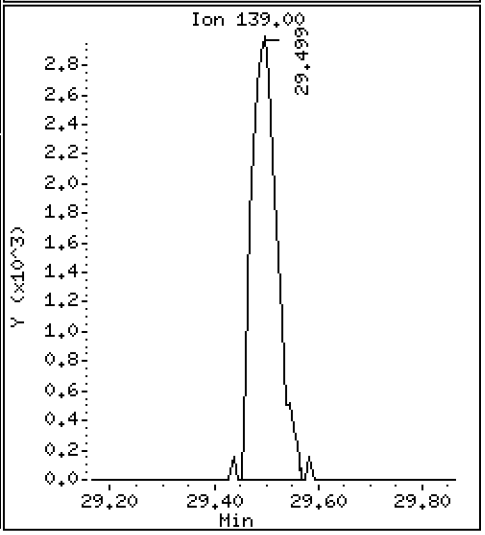


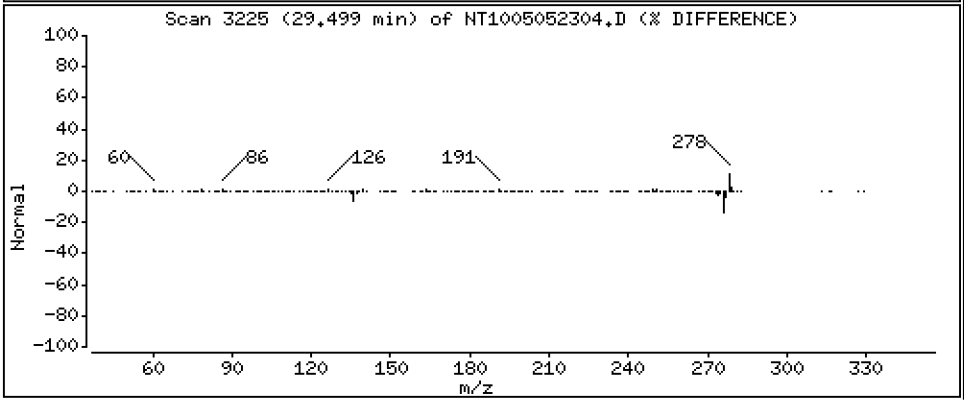












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

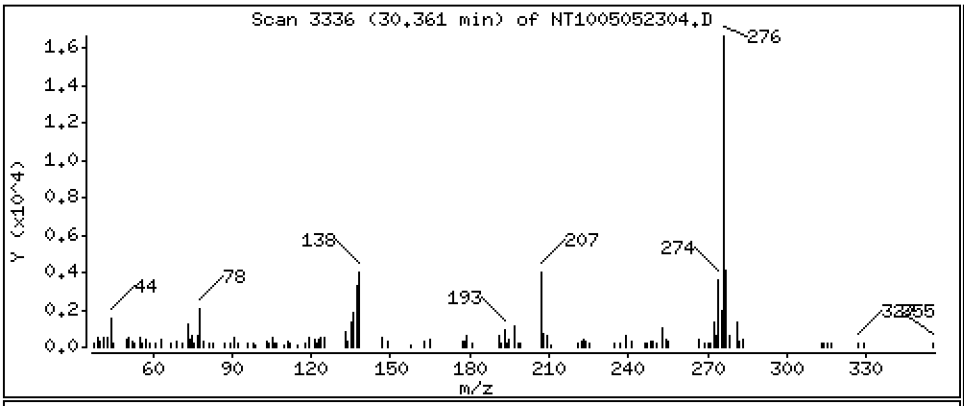
Operator: VTS

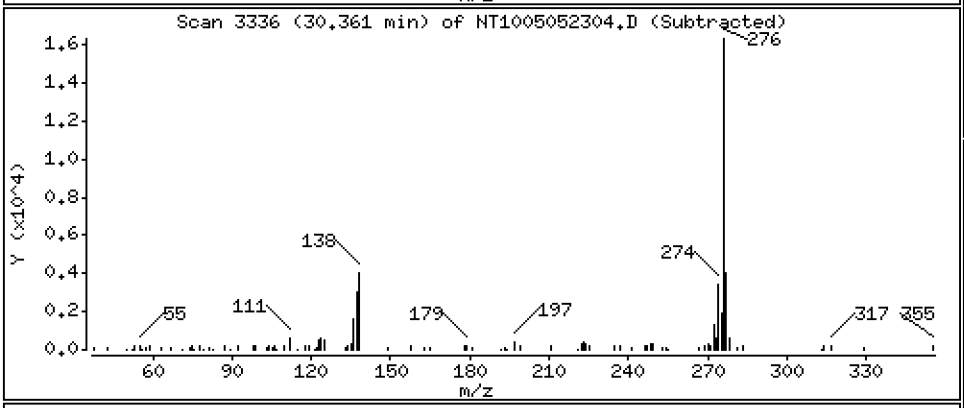
Column phase: ZB-5msi

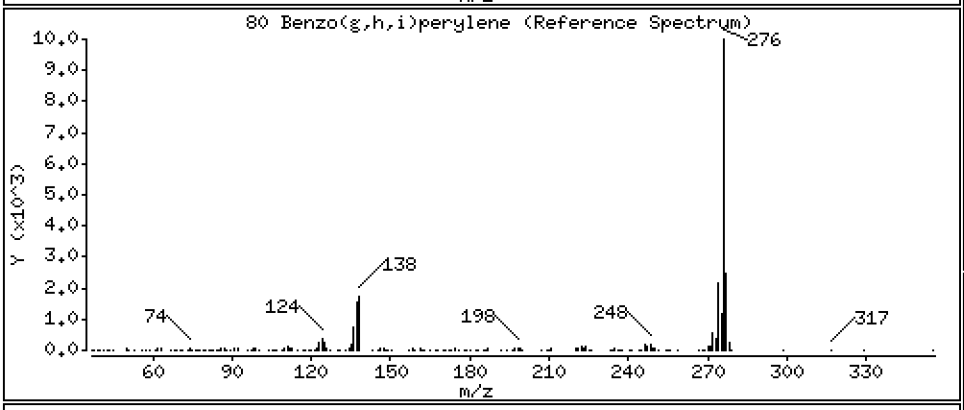
Column diameter: 0.25

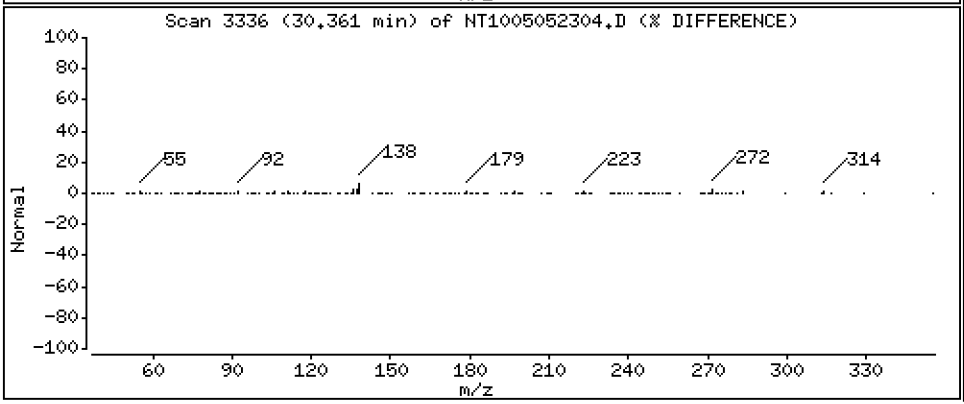
80 Benzo(g,h,i)perylene

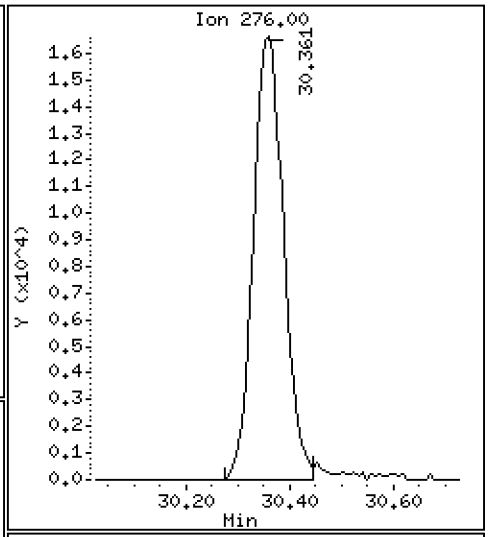
Concentration: 0.3948 ug/mL

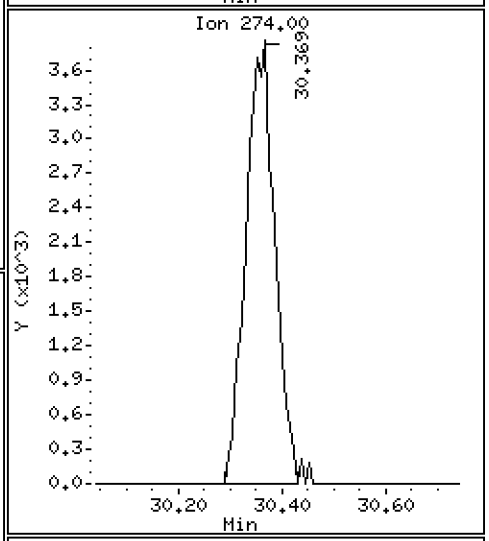


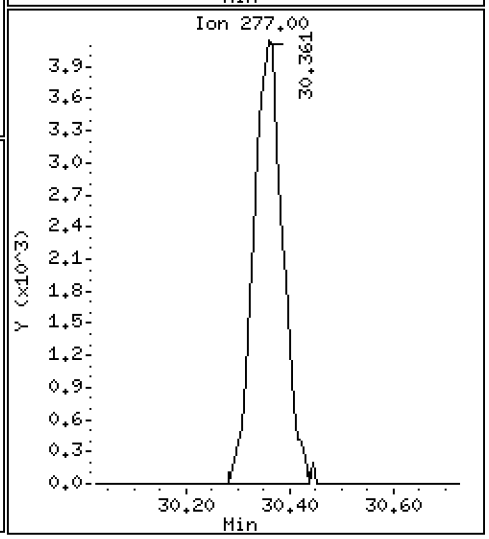












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

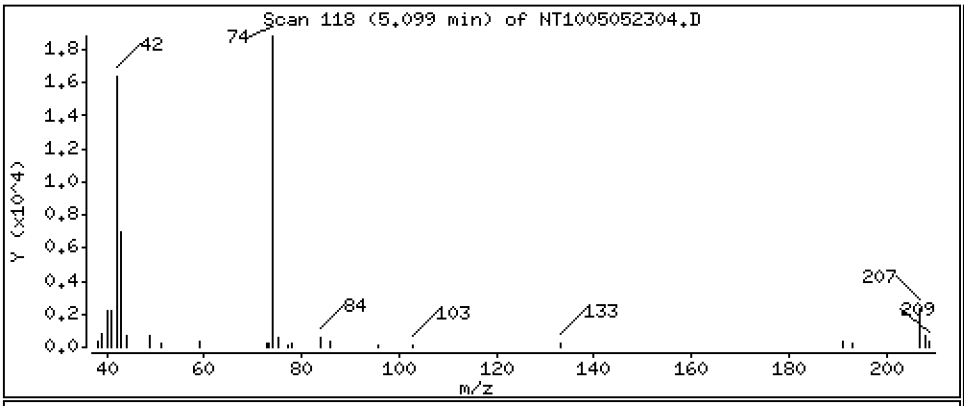
Operator: VTS

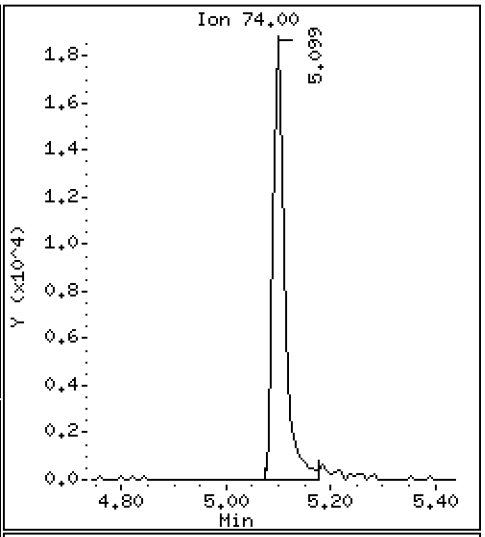
Column phase: ZB-5msi

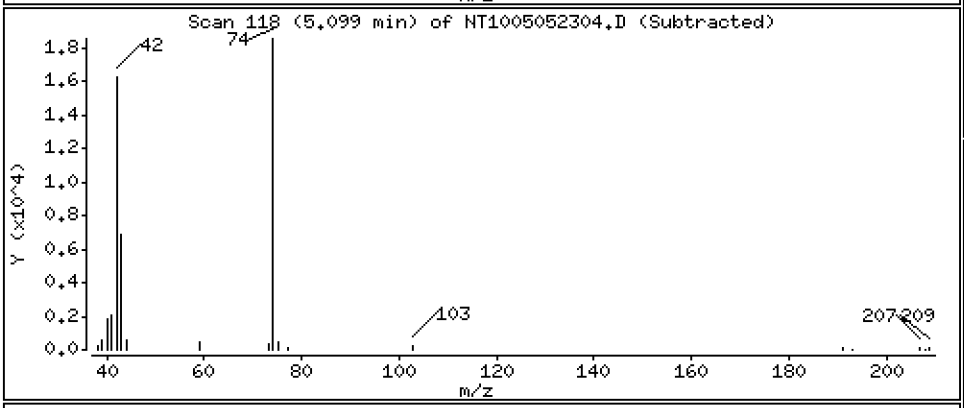
Column diameter: 0.25

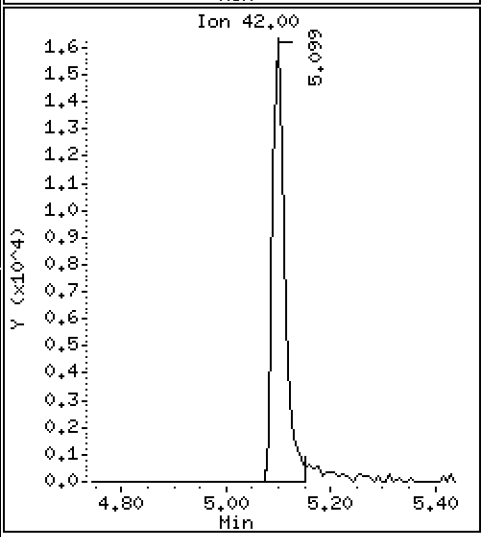
90 N-Nitrosodimethylamine

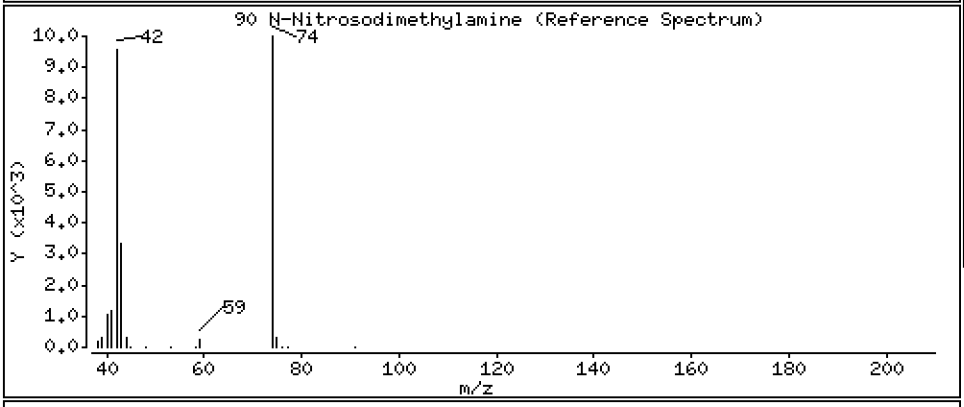
Concentration: 0.8374 ug/mL

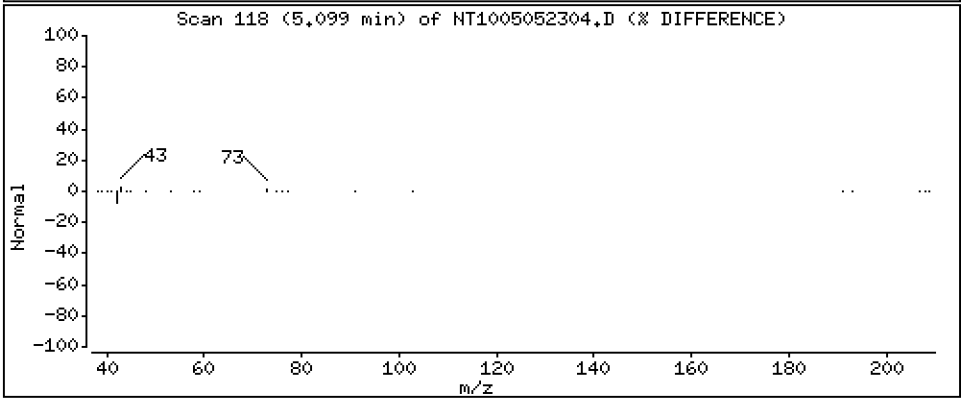












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

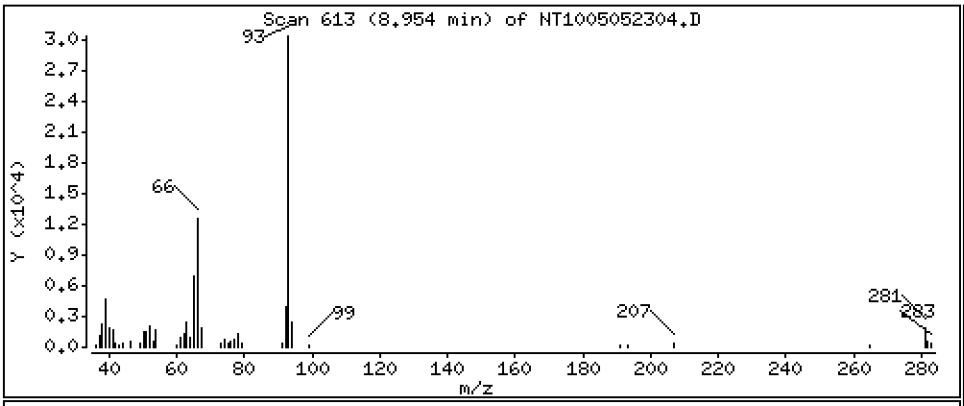
Operator: VTS

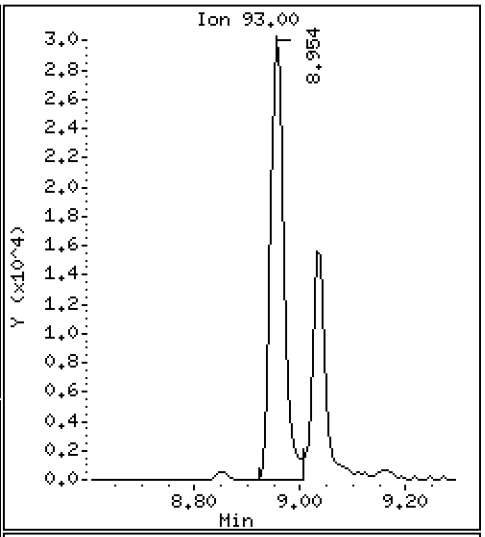
Column phase: ZB-5msi

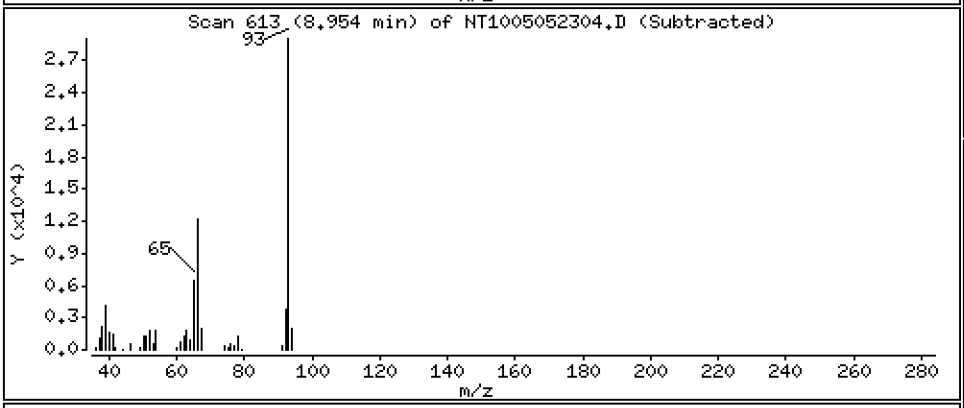
Column diameter: 0.25

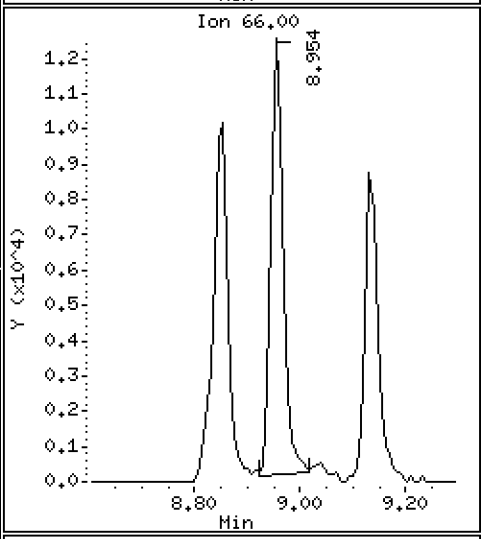
91 Aniline

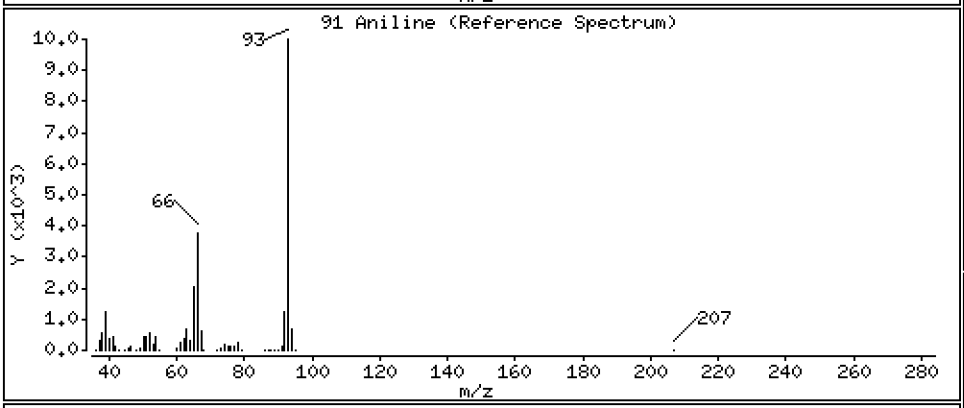
Concentration: 0.8020 ug/mL

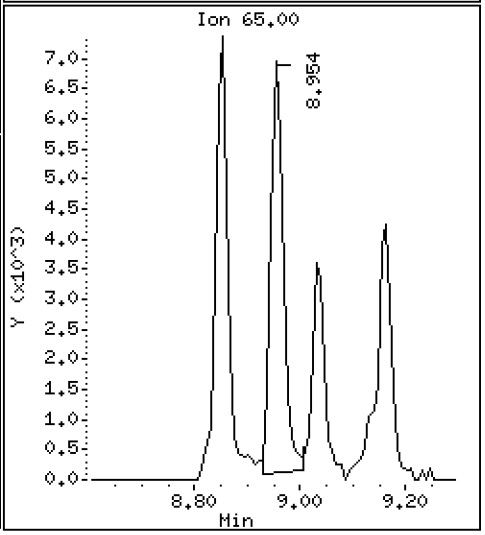


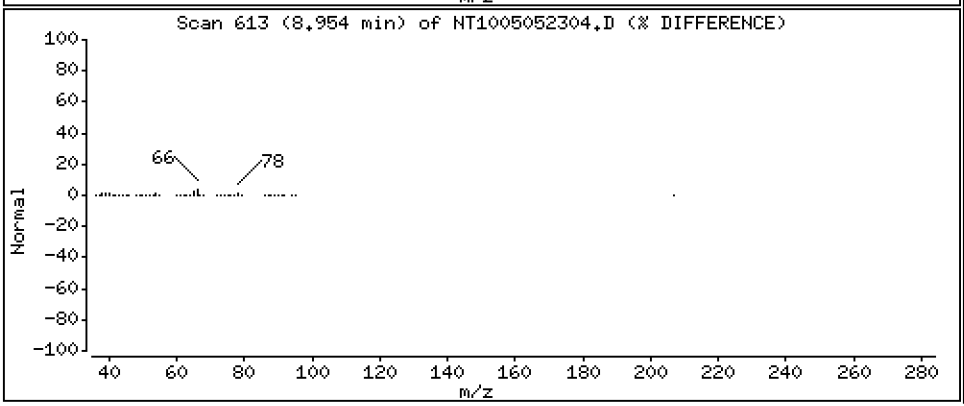












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

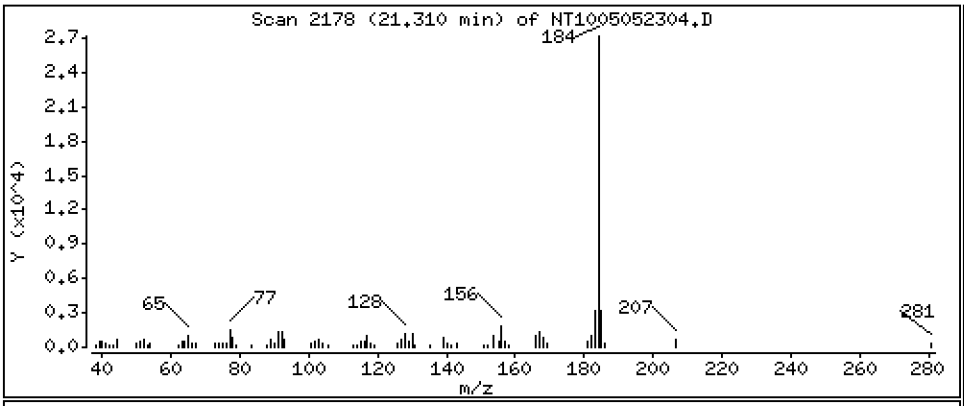
Operator: VTS

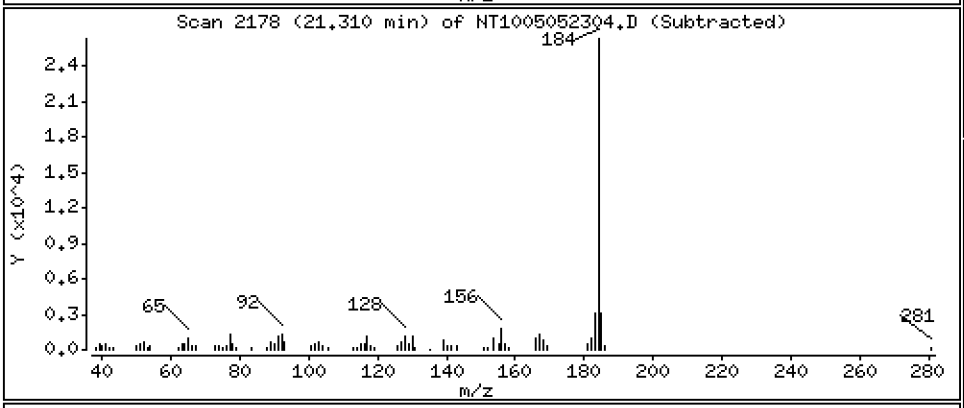
Column phase: ZB-5msi

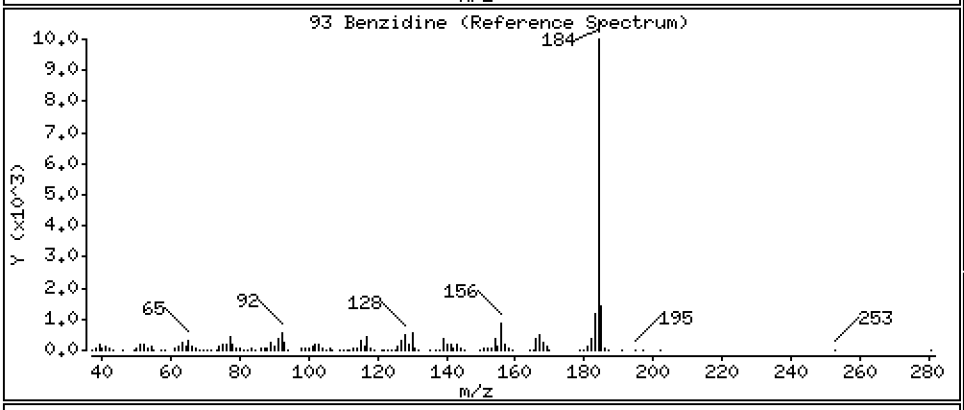
Column diameter: 0.25

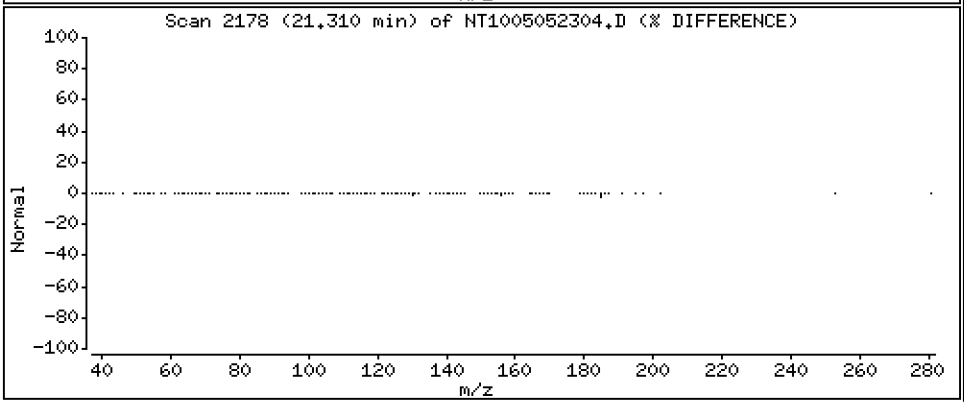
93 Benzidine

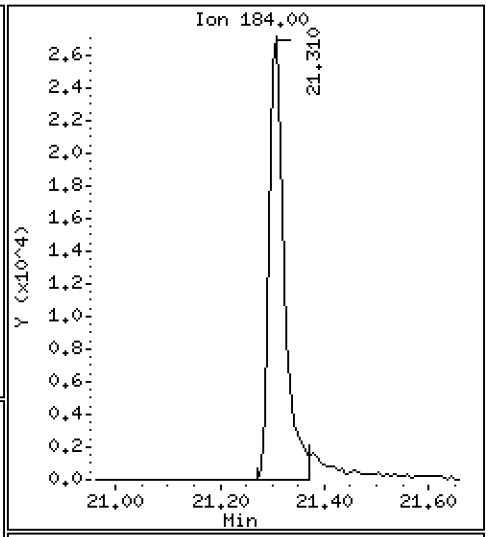
Concentration: 0.5831 ug/mL

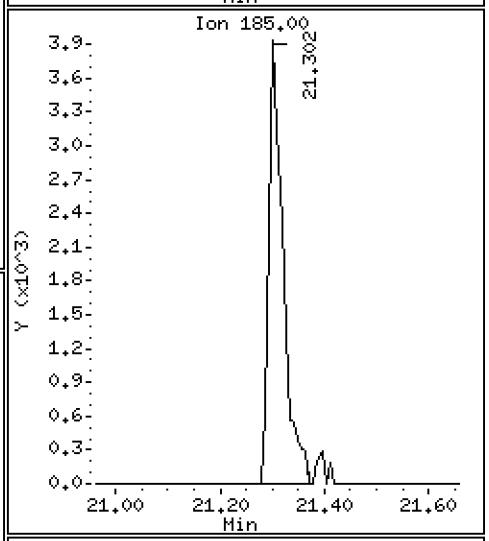


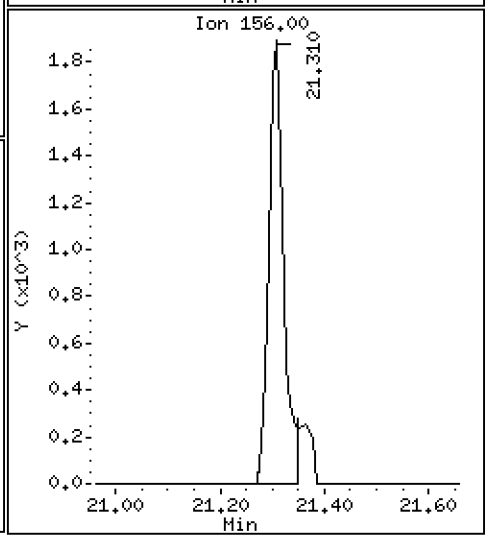












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

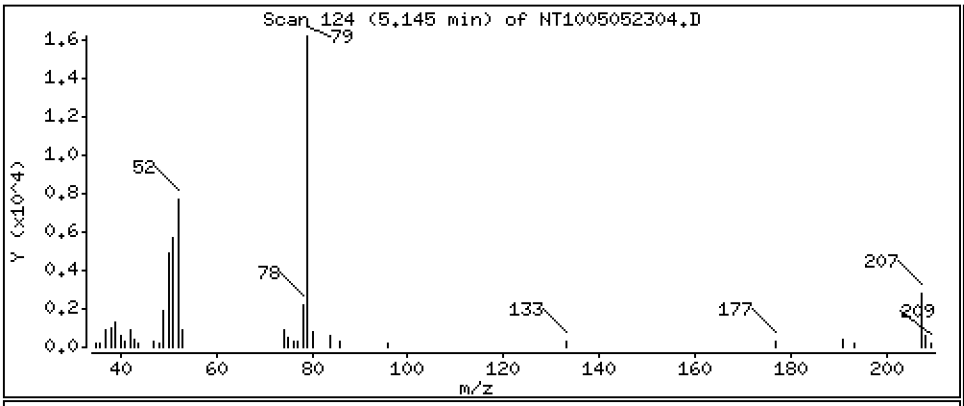
Operator: VTS

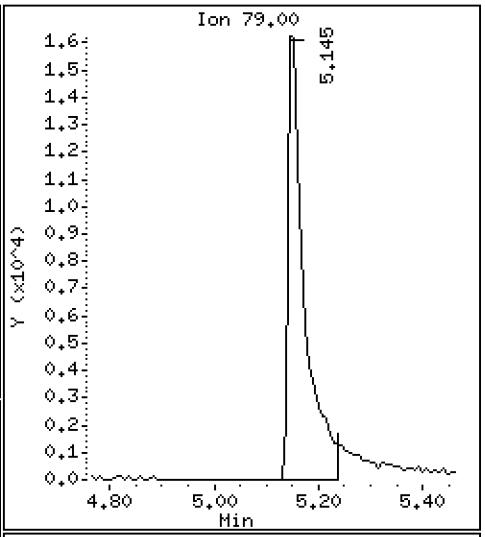
Column phase: ZB-5msi

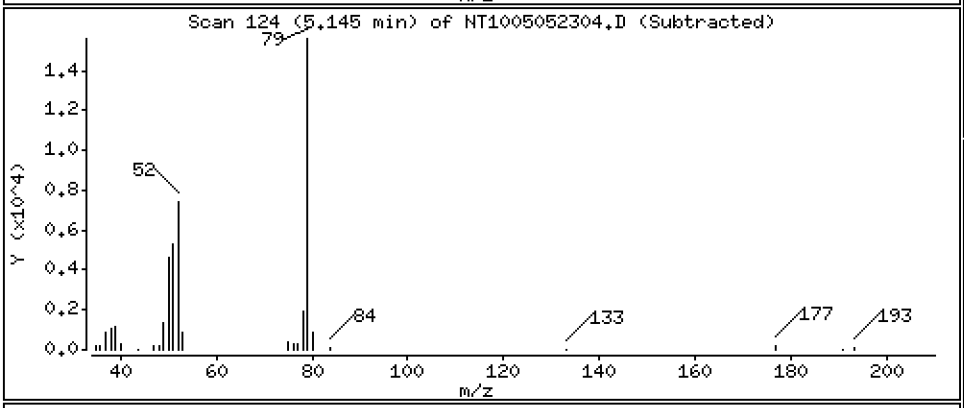
Column diameter: 0.25

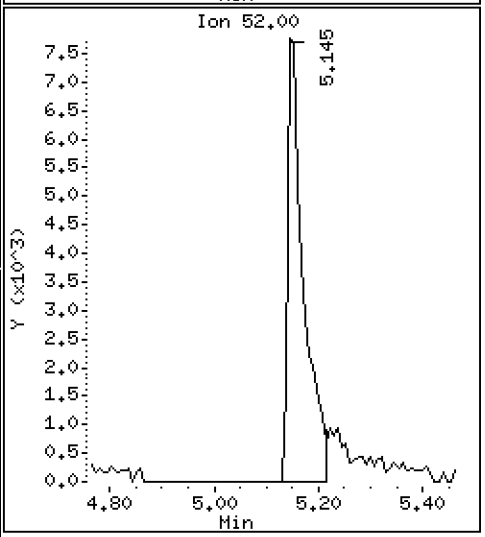
103 Pyridine

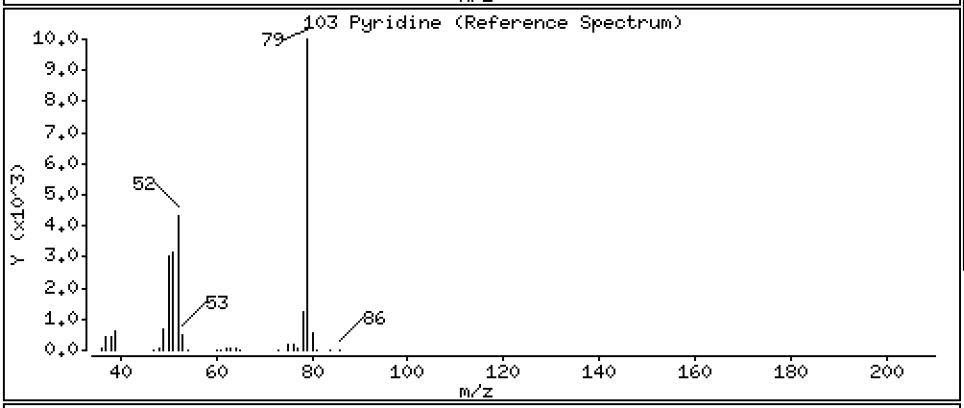
Concentration: 0.7089 ug/mL

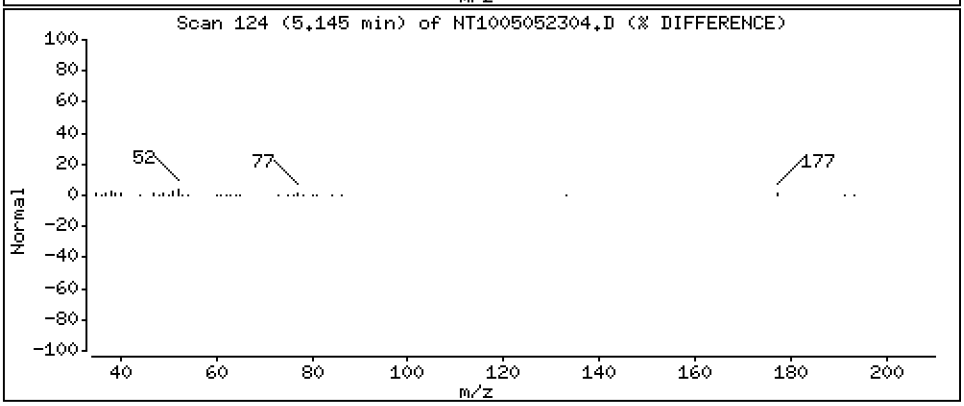












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

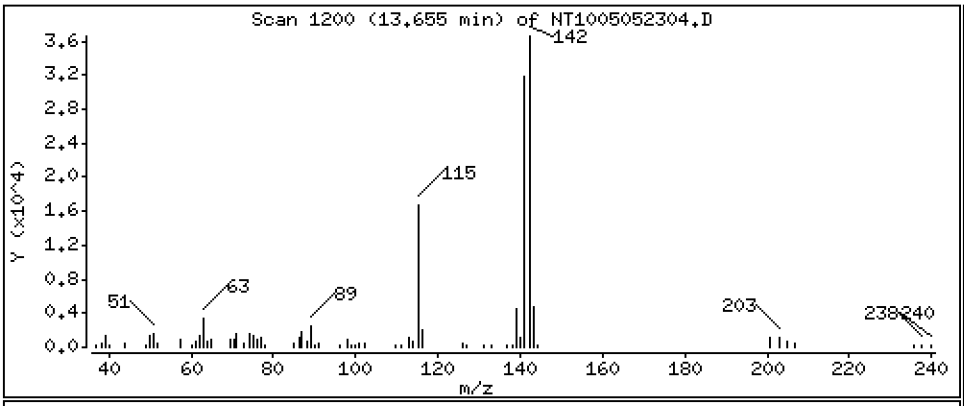
Operator: VTS

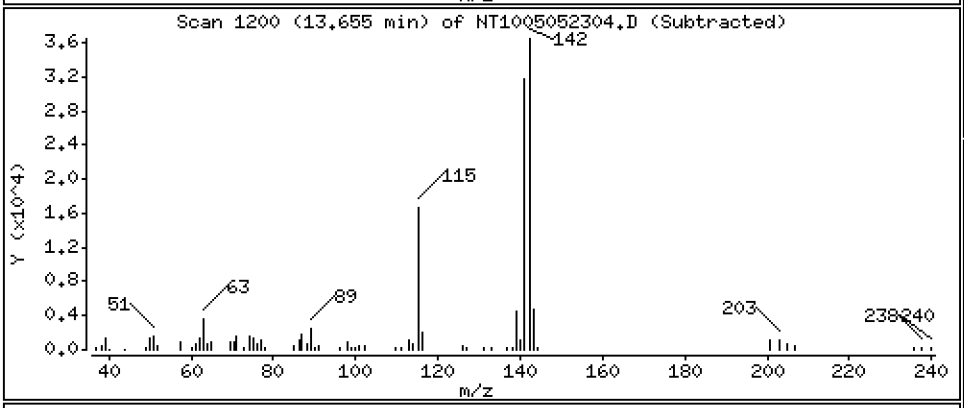
Column phase: ZB-5msi

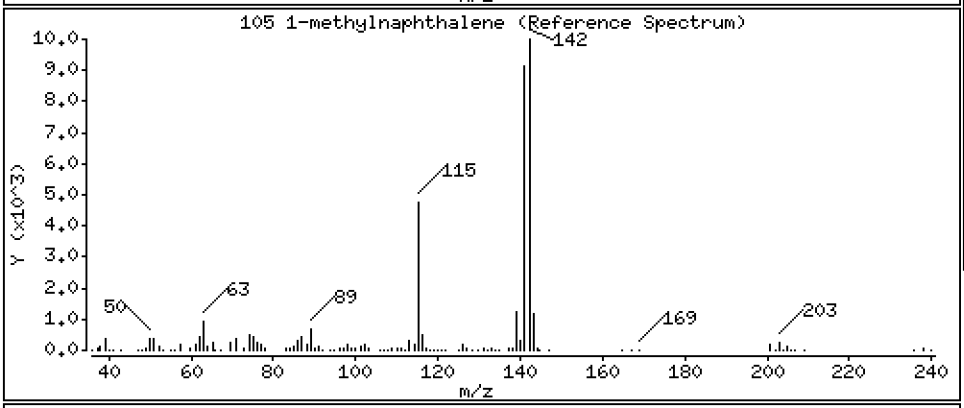
Column diameter: 0.25

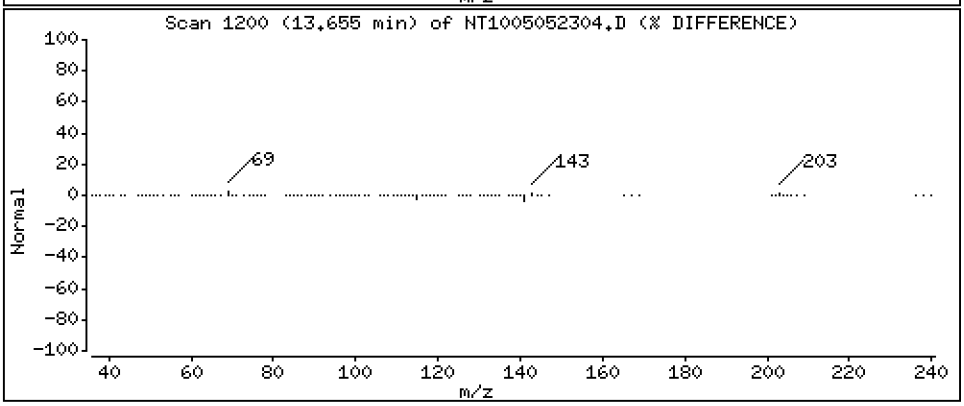
105 1-methylnaphthalene

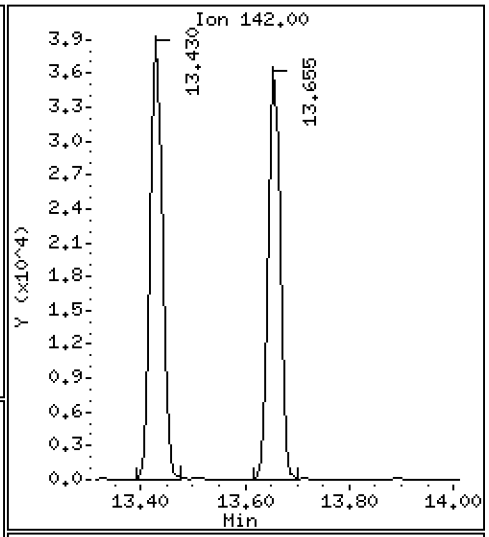
Concentration: 0.4315 ug/mL

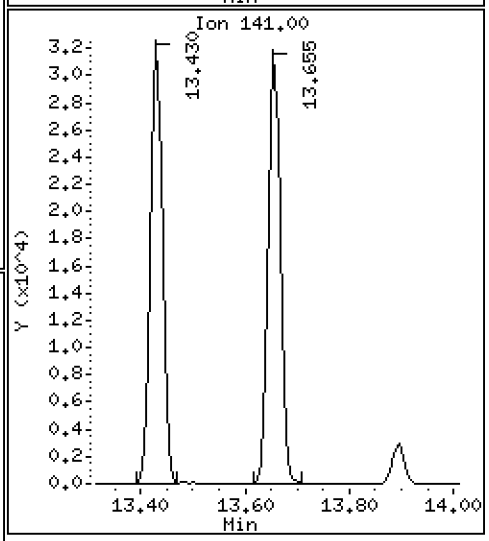












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

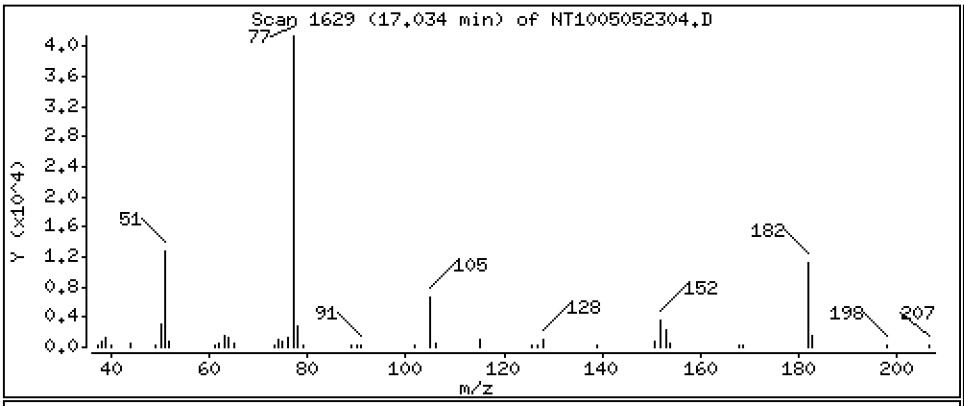
Operator: VTS

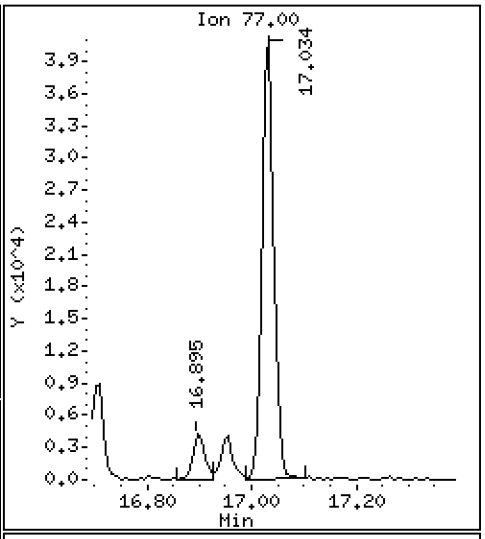
Column phase: ZB-5msi

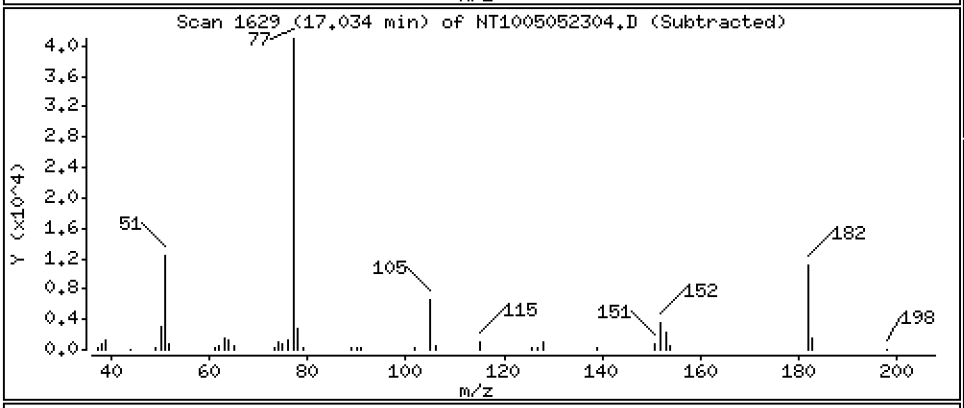
Column diameter: 0.25

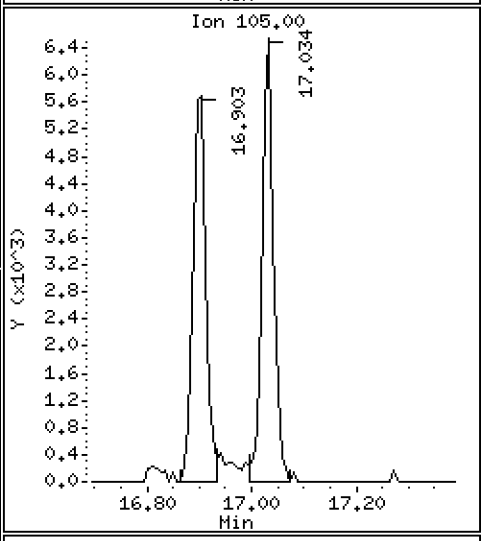
111 Azobenzene (1,2-DP-Hydrazine)

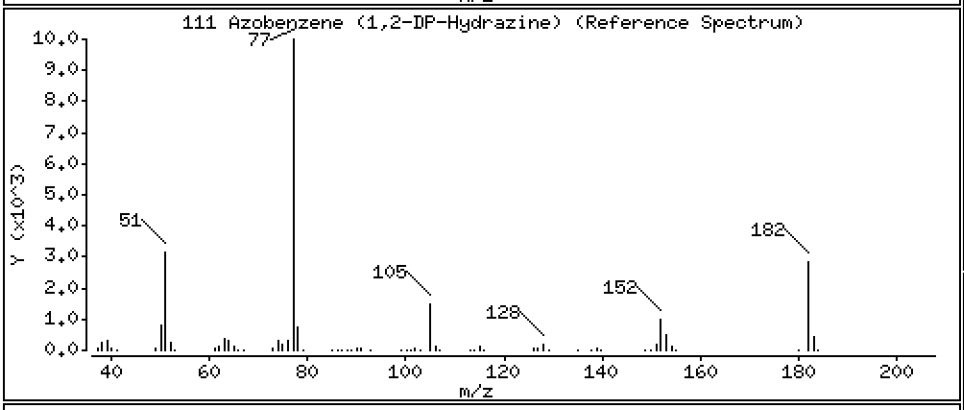
Concentration: 0.4474 ug/mL

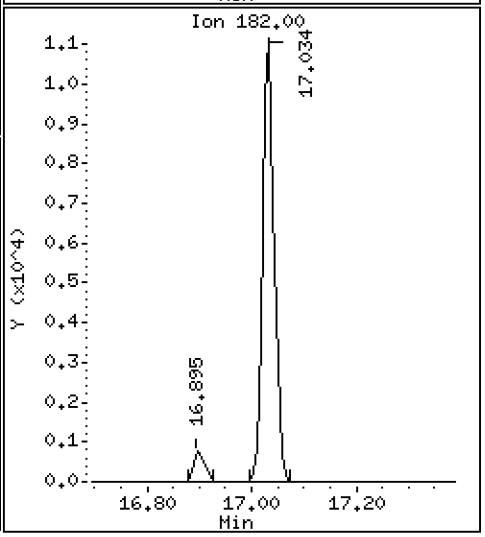


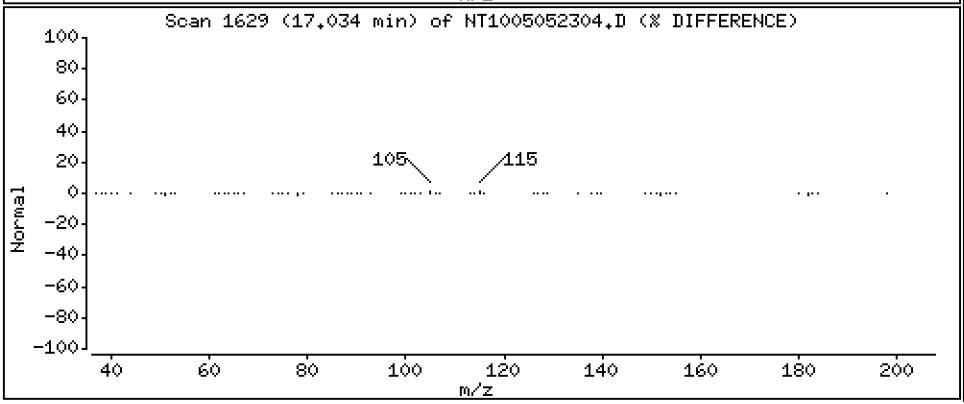












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

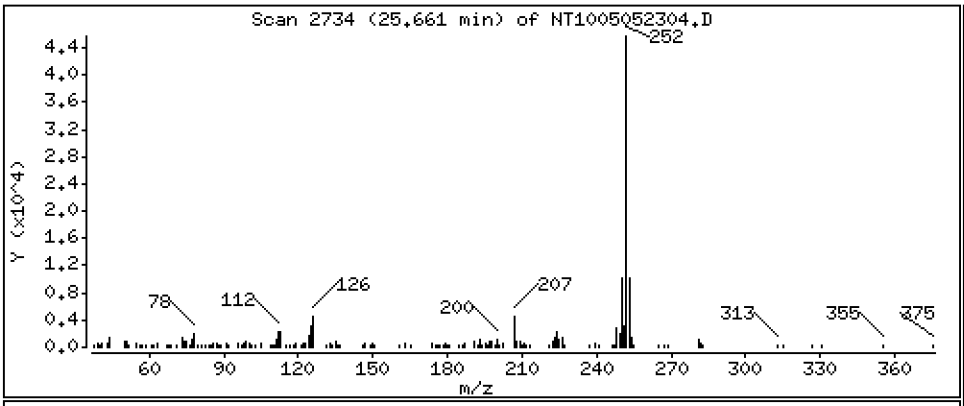
Operator: VTS

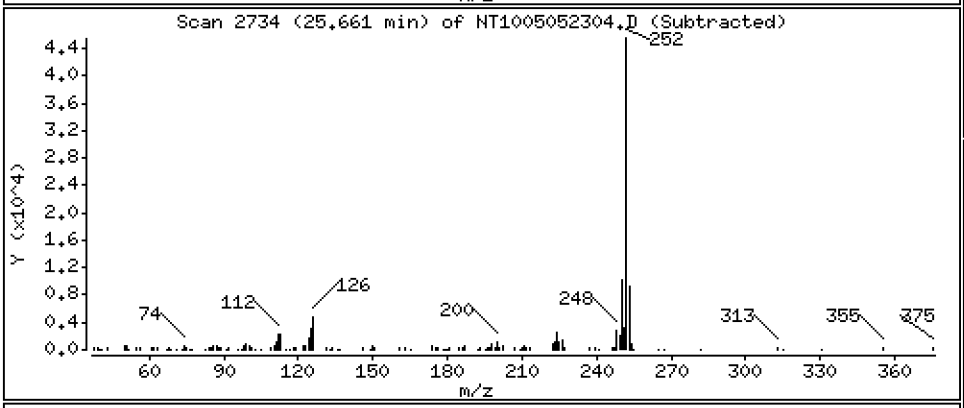
Column phase: ZB-5msi

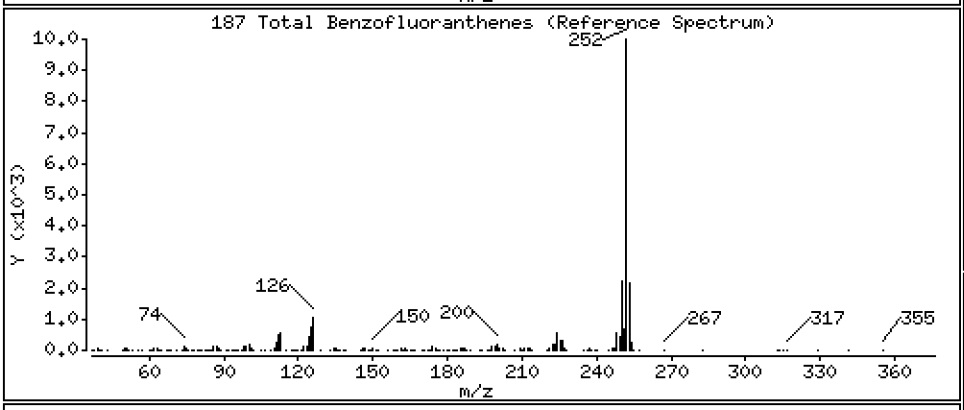
Column diameter: 0.25

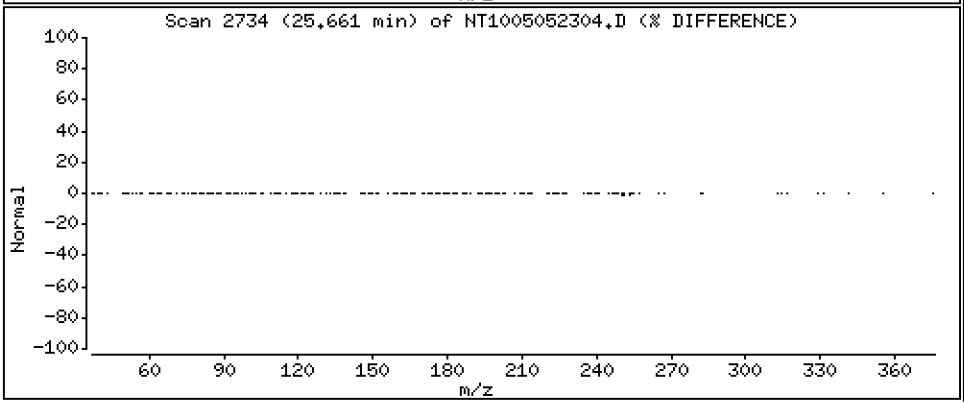
187 Total Benzofluoranthenes

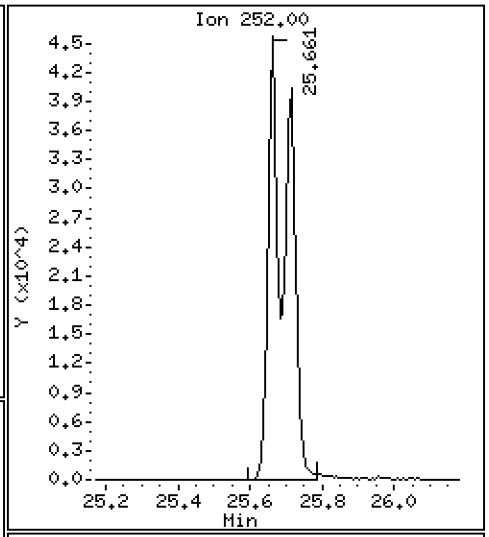
Concentration: 0.8050 ug/mL

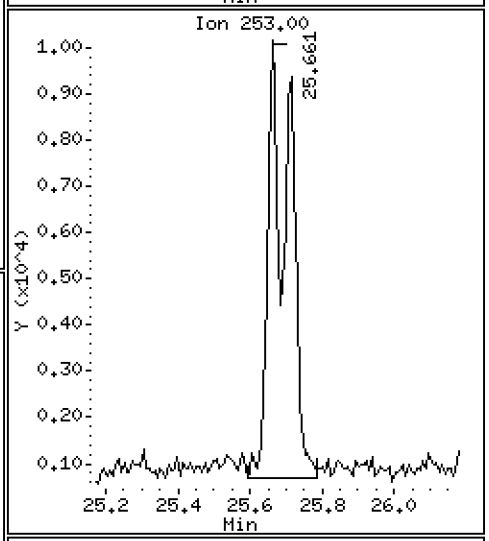


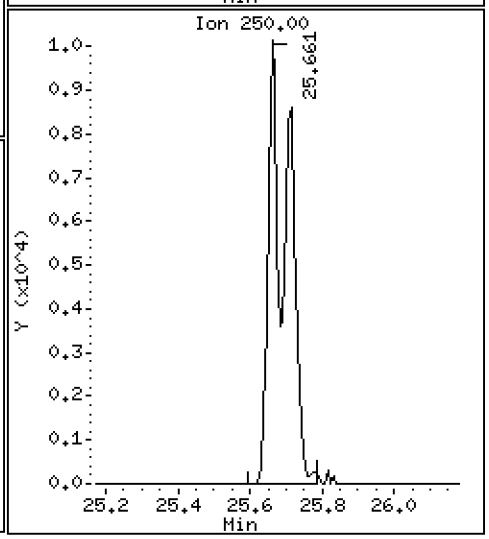












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

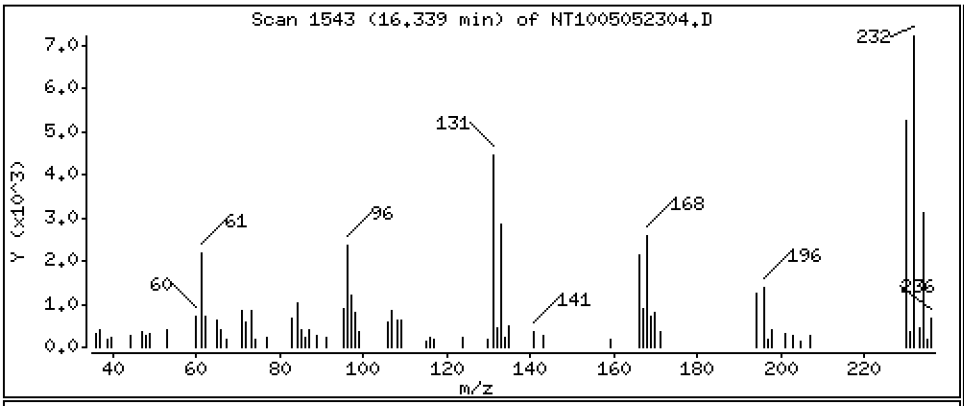
Operator: VTS

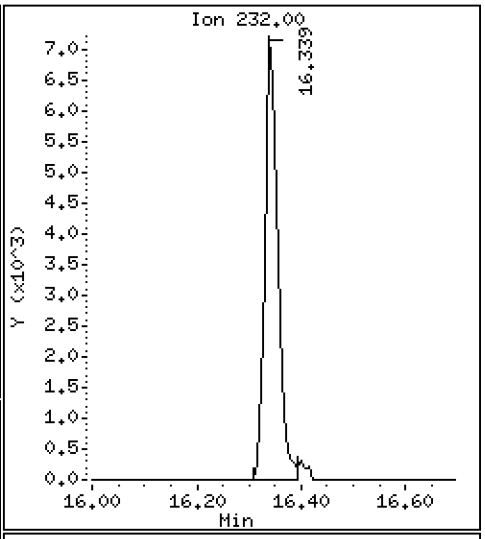
Column phase: ZB-5msi

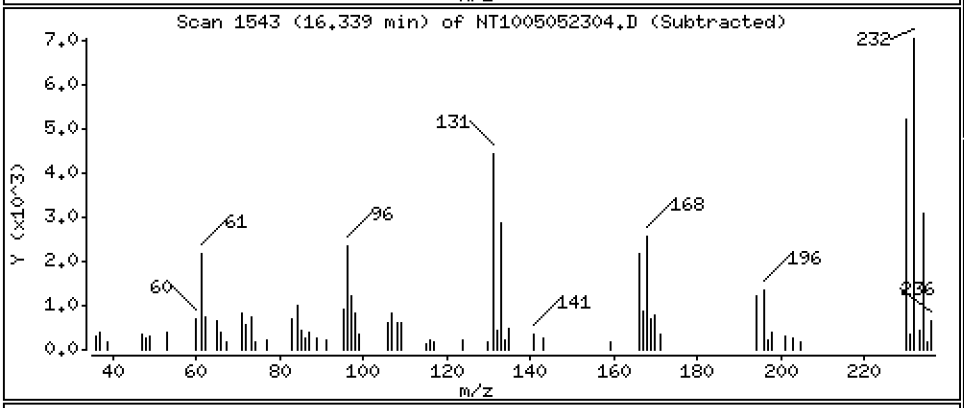
Column diameter: 0.25

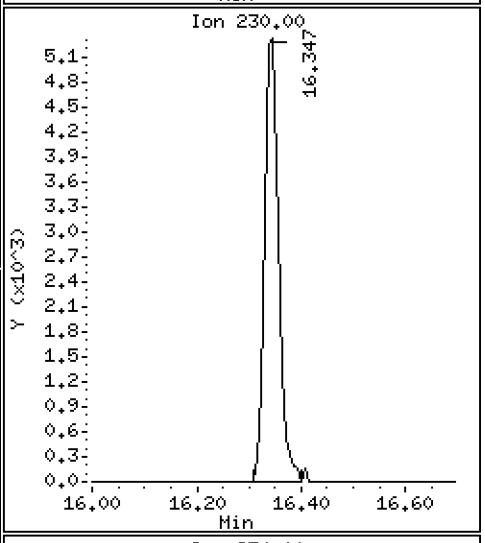
120 2,3,4,6-Tetrachlorophenol

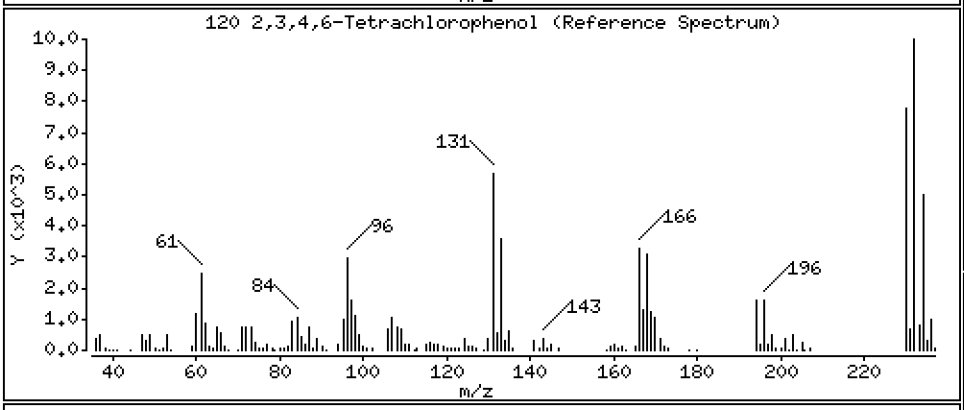
Concentration: 0.2545 ug/mL

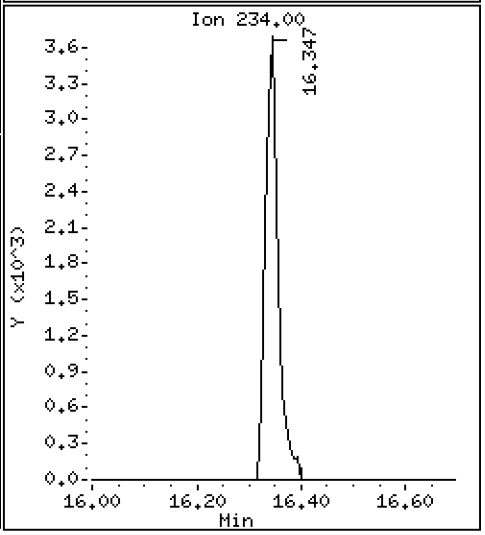


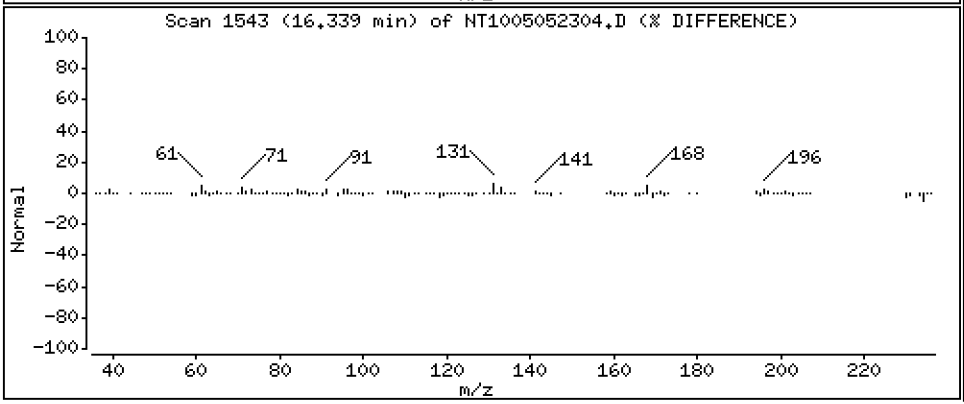












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D
Lab Smp Id: SLE0101-LCV1
Inj Date : 05-MAY-2023 12:43
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0101-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.253	7.253	(1.000)	35889	0.58828	0.5883	
$	2 Phenol-d5	99	8.830	8.830	(1.000)	43457	0.59083	0.5908	
	3 Phenol	94	8.853	8.853	(1.000)	34161	0.43438	0.4344	
$	5 2-Chlorophenol-d4	132	9.131	9.139	(1.000)	41367	0.58687	0.5869	
	4 Bis(2-Chloroethyl)ether	93	9.030	9.038	(1.000)	28137	0.49445	0.4944	
	6 2-Chlorophenol	128	9.162	9.162	(1.000)	28530	0.41141	0.4114	
	7 1,3-Dichlorobenzene	146	9.440	9.440	(1.000)	33376	0.42718	0.4272	
*	8 1,4-Dichlorobenzene-d4	152	9.502	9.502	(1.000)	201611	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.533	9.533	(1.000)	32619	0.42500	0.4250	
$	10 1,2-Dichlorobenzene-d4	152	9.867	9.867	(1.000)	21990	0.42288	0.4229	
	12 1,2-Dichlorobenzene	146	9.890	9.890	(1.000)	31930	0.42851	0.4285	
	11 Benzyl alcohol	108	9.766	9.766	(1.000)	16365	0.43293	0.4329	
	14 2,2'-oxybis(1-Chloropropane)	121	10.061	10.069	(1.059)	8877	0.41248	0.4125	(M)
	13 2-Methylphenol	108	9.976	9.976	(1.000)	24303	0.42133	0.4213	
	17 Hexachloroethane	117	10.488	10.488	(1.000)	13603	0.40991	0.4099	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.325	(1.000)	17611	0.38547	0.3855	
	15 4-Methylphenol	108	10.240	10.240	(1.000)	28806	0.41600	0.4160	
$	18 Nitrobenzene-d5	82	10.597	10.604	(0.884)	30706	0.41572	0.4157	
	19 Nitrobenzene	77	10.635	10.636	(0.887)	29763	0.41695	0.4169	
	20 Isophorone	82	11.078	11.078	(0.924)	36538	0.42995	0.4300	
	21 2-Nitrophenol	139	11.266	11.266	(0.940)	11974	0.31529	0.3153	
	22 2,4-Dimethylphenol	107	11.291	11.300	(0.942)	60555	0.86872	0.8687	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.503	(0.959)	23820	0.43848	0.4385	
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	41871	0.76463	0.7646	
	26 1,2,4-Trichlorobenzene	180	11.906	11.906	(0.993)	29815	0.38014	0.3801	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	660968	4.00000		
	28 Naphthalene	128	12.037	12.037	(1.004)	84321	0.45725	0.4573	
	29 4-Chloroaniline	127	12.161	12.161	(1.014)	52318	0.77099	0.7710	
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	18373	0.42477	0.4248	
	31 4-Chloro-3-methylphenol	107	13.097	13.105	(1.092)	45722	0.76615	0.7661	
	32 2-Methylnaphthalene	142	13.430	13.437	(1.120)	59678	0.43283	0.4328	
	33 Hexachlorocyclopentadiene	237	13.894	13.902	(0.890)	29814	0.66046	0.6605	

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34 2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	30044	0.67564	0.6756
	35 2,4,5-Trichlorophenol	196	14.118	14.118	(0.904)	32275	0.66559	0.6656
$	36 2-Fluorobiphenyl	172	14.204	14.211	(0.909)	69282	0.44084	0.4408
	37 2-Chloronaphthalene	162	14.428	14.436	(0.924)	55885	0.45149	0.4515
	38 2-Nitroaniline	65	14.683	14.691	(0.940)	25522	0.70998	0.7100
	39 Dimethylphthalate	163	15.101	15.109	(0.967)	60900	0.43754	0.4375
	40 Acenaphthylene	152	15.303	15.310	(0.980)	85372	0.44186	0.4419
	41 2,6-Dinitrotoluene	165	15.248	15.256	(0.976)	22271	0.70890	0.7089
*	42 Acenaphthene-d10	164	15.620	15.628	(1.000)	363017	4.00000	
	43 3-Nitroaniline	138	15.535	15.543	(0.995)	21059	0.68096	0.6810
	44 Acenaphthene	153	15.682	15.689	(1.004)	55255	0.44965	0.4497
	45 2,4-Dinitrophenol	184	15.751	15.759	(1.008)	3382	0.14039	0.1404
	46 Dibenzofuran	168	16.006	16.014	(1.025)	80078	0.44694	0.4469
	47 4-Nitrophenol	109	15.844	15.844	(1.014)	10752	0.37310	0.3731
	48 2,4-Dinitrotoluene	165	16.060	16.068	(1.028)	29757	0.66454	0.6645
	50 Diethylphthalate	149	16.555	16.571	(1.060)	58942	0.40786	0.4079
	49 Fluorene	166	16.725	16.733	(1.071)	65815	0.44528	0.4453
	51 4-Chlorophenyl-phenylether	204	16.702	16.710	(1.069)	32025	0.43512	0.4351
	52 4-Nitroaniline	138	16.810	16.825	(1.076)	18895	0.62849	0.6285
	53 4,6-Dinitro-2-methylphenol	198	16.903	16.918	(0.905)	21174	0.78350	0.7835
	54 N-Nitrosodiphenylamine	169	16.957	16.964	(0.908)	40889	0.44660	0.4466
$	55 2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	7583	0.43524	0.4352
	56 4-Bromophenyl-phenylether	248	17.720	17.728	(0.949)	17922	0.41466	0.4147
	57 Hexachlorobenzene	284	18.044	18.052	(0.966)	19011	0.43822	0.4382
	58 Pentachlorophenol	266	18.401	18.401	(0.985)	8392	0.28400	0.2840
*	59 Phenanthrene-d10	188	18.671	18.679	(1.000)	692839	4.00000	
	60 Phenanthrene	178	18.718	18.726	(1.002)	89326	0.43939	0.4394
	61 Anthracene	178	18.811	18.818	(1.007)	74521	0.39668	0.3967
	62 Carbazole	167	19.128	19.136	(1.024)	70797	0.42574	0.4257
	63 Di-n-butylphthalate	149	19.894	19.902	(1.065)	75689	0.30403	0.3040
	64 Fluoranthene	202	21.078	21.085	(0.890)	98460	0.38270	0.3827
	65 Pyrene	202	21.503	21.511	(0.908)	102122	0.39735	0.3974
$	66 Terphenyl-d14	244	21.774	21.782	(0.919)	81938	0.40312	0.4031
	67 Butylbenzylphthalate	149	22.688	22.695	(0.958)	31365	0.26049	0.2605
	68 Benzo(a)anthracene	228	23.655	23.663	(0.999)	98961	0.43381	0.4338
*	69 Chrysene-d12	240	23.686	23.694	(1.000)	576240	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.601	23.609	(0.996)	83481	1.20083	1.201
	71 Chrysene	228	23.725	23.741	(1.002)	91998	0.45058	0.4506
	72 bis(2-Ethylhexyl)phthalate	149	23.694	23.702	(0.958)	44759	0.38226	0.3823
*	134 Di-n-octylphthalate-d4	153	24.724	24.739	(1.000)	812849	4.00000	
	73 Di-n-octylphthalate	149	24.739	24.747	(1.001)	99925	0.46596	0.4660
	74 Benzo(b)fluoranthene	252	25.661	25.676	(0.968)	83823	0.38973	0.3897
	75 Benzo(k)fluoranthene	252	25.715	25.730	(0.970)	87790	0.41133	0.4113
	76 Benzo(a)pyrene	252	26.388	26.404	(0.995)	68961	0.38306	0.3831
*	77 Perylene-d12	264	26.520	26.528	(1.000)	523576	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.483	29.498	(1.112)	82294	0.38051	0.3805
	79 Dibenzo(a,h)anthracene	278	29.498	29.514	(1.112)	71258	0.39342	0.3934
	80 Benzo(g,h,i)perylene	276	30.361	30.376	(1.145)	68051	0.39477	0.3948
	90 N-Nitrosodimethylamine	74	5.098	5.090	(1.000)	27595	0.83742	0.8374
	91 Aniline	93	8.953	8.953	(1.000)	51984	0.80201	0.8020
	93 Benzidine	184	21.310	21.310	(0.900)	53632	0.58313	0.5831
	103 Pyridine	79	5.144	5.114	(1.000)	36834	0.70887	0.7089
	105 1-methylnaphthalene	142	13.654	13.662	(1.139)	54539	0.43146	0.4315
	111 Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.041	(1.091)	63169	0.44742	0.4474

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.661	25.676	(0.968)	166663	0.80500	0.8050
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.346	(1.046)	11892	0.25452	0.2545

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052304.D
Lab Smp Id: SLE0101-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	201611	12.34
27 Naphthalene-d8	621628	310814	1243256	660968	6.33
42 Acenaphthene-d10	353112	176556	706224	363017	2.81
59 Phenanthrene-d10	694933	347467	1389866	692839	-0.30
69 Chrysene-d12	553967	276984	1107934	576240	4.02
134 Di-n-octylphthala	895601	447801	1791202	812849	-9.24
77 Perylene-d12	482573	241287	965146	523576	8.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	-0.00
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.69	-0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.72	-0.06
77 Perylene-d12	26.53	26.03	27.03	26.52	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005052304.D

Lab ID: SLE0101-LCV1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 12:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

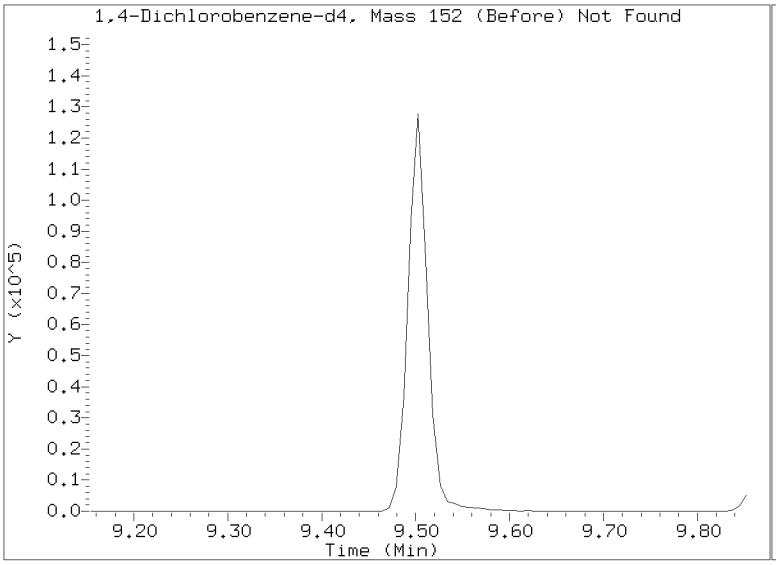
RRT check based on Ccal File: NT1005052303.D

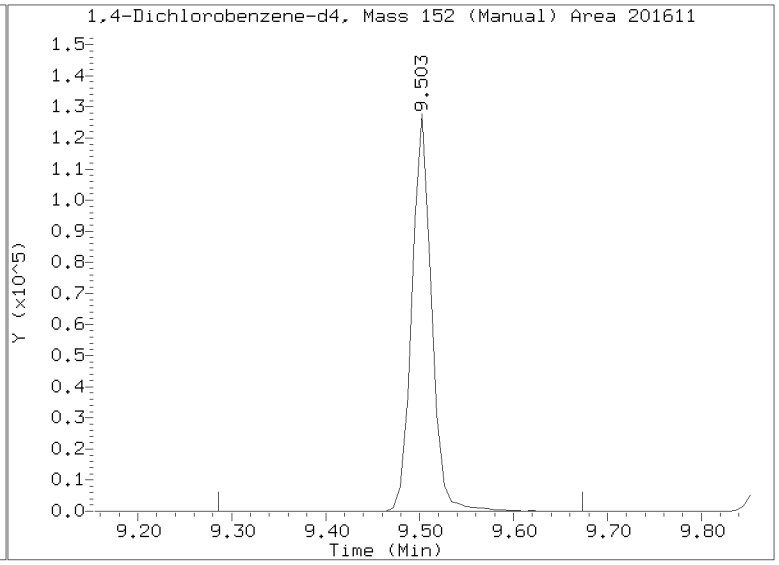
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

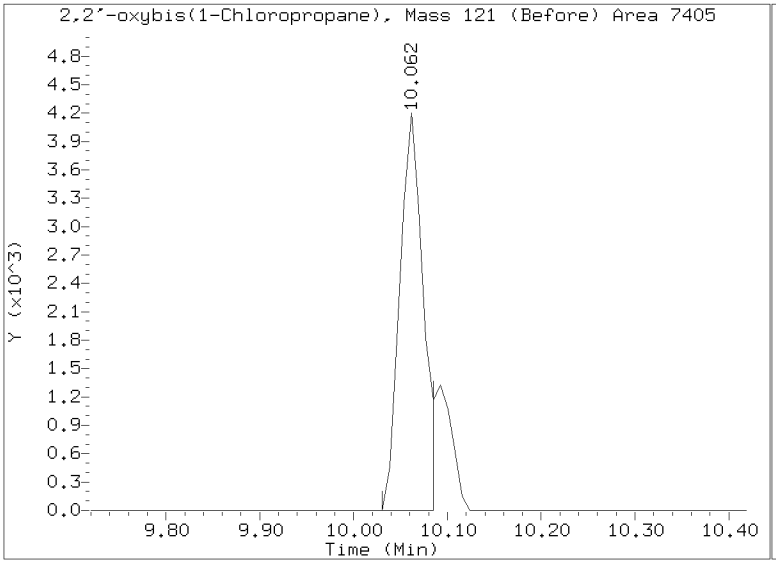
* Only compounds listed in the work order have been verified by the analyst *

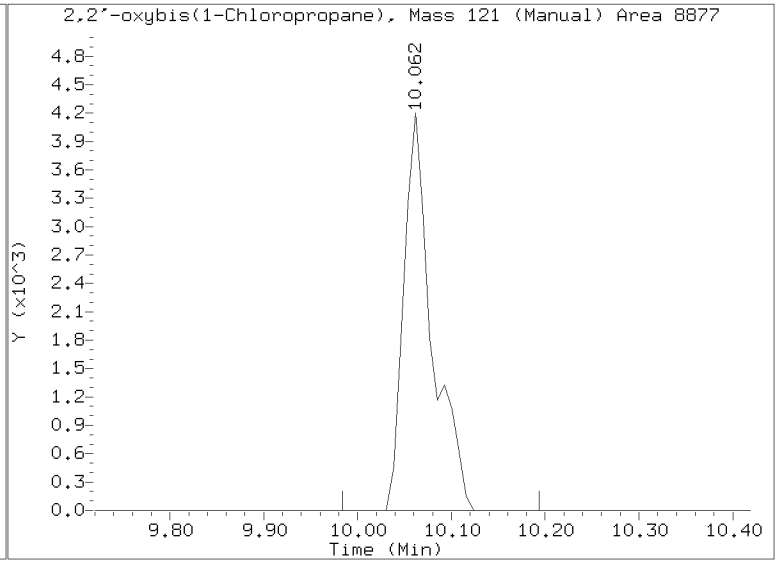
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052304.D
Injection Date: 05-MAY-2023 12:43
Lab ID:SLE0101-LCV1 Client ID:
Report Date: 05/08/2023 10:14









APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00012
Lab File ID:	NT1005052303.D	Calibration Date:	05/01/2023
Sequence:	SLE0101	Injection Date:	05/05/23
Lab Sample ID:	SLE0101-ICV1	Injection Time:	11:37
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.8	1.5603090	1.5056390		-3.5	+/-20
4-Methylphenol	A	5.0000	4.8	1.3738470	1.3292070		-3.2	+/-20
Naphthalene	A	5.0000	4.7	1.1159900	1.0540540		-5.5	+/-20
2-Methylnaphthalene	A	5.0000	4.6	0.8343963	0.7719935		-7.5	+/-20
Acenaphthylene	A	5.0000	4.8	2.1289490	2.0535920		-3.5	+/-20
Dimethylphthalate	A	5.0000	4.7	1.5336640	1.4407670		-6.1	+/-20
Acenaphthene	A	5.0000	4.8	1.3540250	1.2931580		-4.5	+/-20
Dibenzofuran	A	5.0000	4.8	1.9742250	1.8886400		-4.3	+/-20
Fluorene	A	5.0000	4.8	1.6286350	1.5677540		-3.7	+/-20
Phenanthrene	A	5.0000	4.6	1.1736900	1.0839800		-7.6	+/-20
Anthracene	A	5.0000	4.8	1.0845870	1.0423620		-3.9	+/-20
Fluoranthene	A	5.0000	4.6	1.7858880	1.6567930		-7.2	+/-20
Pyrene	A	5.0000	4.7	1.7840190	1.6700110		-6.4	+/-20
Butylbenzylphthalate	A	5.0000	4.1	0.6671669	0.6603224		-17.9	+/-20
Benzo(a)anthracene	A	5.0000	4.8	1.5835210	1.5114170		-4.6	+/-20
Chrysene	A	5.0000	4.8	1.4173070	1.3566340		-4.3	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.0	0.5761948	0.5727068		-0.6	+/-20
Benzofluoranthenes, Total	A	10.000	9.6	1.5816940	1.5231550		-3.7	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.3753650	1.3204730		-4.0	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.8	1.6522640	1.5845430		-4.1	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.8	1.3837630	1.3156030		-4.9	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.8	1.3169650	1.2638400		-4.0	+/-20
2-Fluorophenol	A	7.5000	6.91	1.2103940	1.1150030		-7.9	+/-20
Phenol-d5	A	7.5000	7.21	1.4592840	1.4020950		-3.9	+/-20
2-Chlorophenol-d4	A	7.5000	6.73	1.3984790	1.2549370		-10.3	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.35	1.0316970	0.8967860		-13.1	+/-20
Nitrobenzene-d5	A	5.0000	4.78	0.4469969	0.4273064		-4.4	+/-20
2-Fluorobiphenyl	A	5.0000	4.54	1.7317170	1.5719820		-9.2	+/-20
2,4,6-Tribromophenol	A	7.5000	6.42	0.1786492	0.1700809		-14.4	+/-20
p-Terphenyl-d14	A	5.0000	4.54	1.4109530	1.2804760		-9.2	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

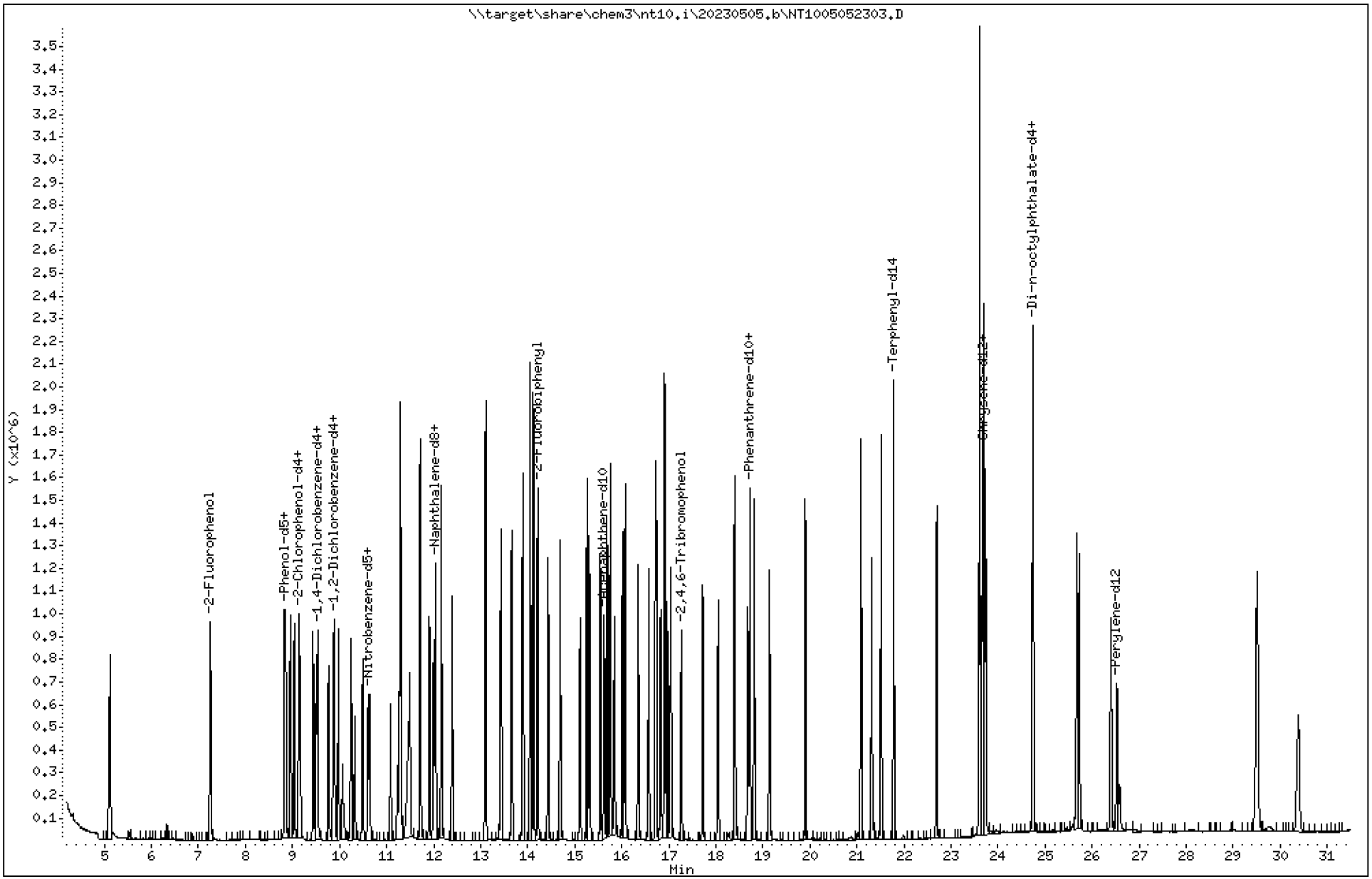
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00012
Lab File ID:	NT1005052303.D	Calibration Date:	05/01/2023
Sequence:	SLE0101	Injection Date:	05/05/23
Lab Sample ID:	SLE0101-ICV1	Injection Time:	11:37
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
1,4-Dichlorobenzene-d4	A	4.0000	4.0	36075.7500	1.0000			
Naphthalene-d8	A	4.0000	4.0	123424.5000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	69802.5000	1.0000			
Phenanthrene-d10	A	4.0000	4.0	130365.8000	1.0000			
Chrysene-d12	A	4.0000	4.0	92477.7500	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	156667.0000	1.0000			
Perylene-d12	A	4.0000	4.0	77834.7500	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052303.D
Date : 05-MAY-2023 11:37
Client ID:
Sample Info: SLE0101-ICV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052303.D
Lab Smp Id: SLE0101-ICV1
Inj Date : 05-MAY-2023 11:37
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0101-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	7.253	7.253	(1.000)	375193	7.50000	6.909	
$	2 Phenol-d5	99	8.830	8.830	(1.000)	471798	7.50000	7.206	
	3 Phenol	94	8.853	8.853	(1.000)	337760	5.00000	4.825	
$	5 2-Chlorophenol-d4	132	9.139	9.139	(1.000)	422280	7.50000	6.730	
	4 Bis(2-Chloroethyl)ether	93	9.038	9.038	(1.000)	238077	5.00000	4.700	
	6 2-Chlorophenol	128	9.162	9.162	(1.000)	311692	5.00000	5.049	
	7 1,3-Dichlorobenzene	146	9.440	9.440	(1.000)	313566	5.00000	4.509	
*	8 1,4-Dichlorobenzene-d4	152	9.502	9.502	(1.000)	179464	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.533	9.533	(1.000)	308354	5.00000	4.513	
$	10 1,2-Dichlorobenzene-d4	152	9.867	9.867	(1.000)	201176	5.00000	4.346	
	12 1,2-Dichlorobenzene	146	9.890	9.890	(1.000)	296460	5.00000	4.470	
	11 Benzyl alcohol	108	9.766	9.766	(1.000)	158671	5.00000	4.716	
	14 2,2'-oxybis(1-Chloropropane)	121	10.069	10.069	(1.060)	88200	5.00000	4.604	(M)
	13 2-Methylphenol	108	9.976	9.976	(1.000)	248979	5.00000	4.849	
	17 Hexachloroethane	117	10.488	10.488	(1.000)	138871	5.00000	4.701	
	16 N-Nitroso-di-n-propylamine	70	10.325	10.325	(1.000)	194336	5.00000	4.779	
	15 4-Methylphenol	108	10.240	10.240	(1.000)	298181	5.00000	4.838	
$	18 Nitrobenzene-d5	82	10.604	10.604	(0.884)	332032	5.00000	4.780	
	19 Nitrobenzene	77	10.636	10.636	(0.886)	327577	5.00000	4.879	
	20 Isophorone	82	11.078	11.078	(0.923)	430472	5.00000	5.386	
	21 2-Nitrophenol	139	11.266	11.266	(0.939)	152101	5.00000	4.271	
	22 2,4-Dimethylphenol	107	11.300	11.300	(0.942)	609247	10.0000	9.293	
	23 Bis(2-Chloroethoxy)methane	93	11.503	11.503	(0.959)	243073	5.00000	4.758	
	24 Benzoic acid	105	11.486	11.486	(0.957)	506497	20.0000	11.10	
	25 2,4-Dichlorophenol	162	11.716	11.716	(0.976)	498940	10.0000	9.688	
	26 1,2,4-Trichlorobenzene	180	11.906	11.906	(0.992)	279945	5.00000	3.795	
*	27 Naphthalene-d8	136	11.999	11.999	(1.000)	621628	4.00000		
	28 Naphthalene	128	12.037	12.037	(1.003)	819037	5.00000	4.723	
	29 4-Chloroaniline	127	12.161	12.161	(1.014)	683710	10.0000	10.71	
	30 Hexachlorobutadiene	225	12.393	12.393	(1.033)	180388	5.00000	4.434	
	31 4-Chloro-3-methylphenol	107	13.105	13.105	(1.092)	564970	10.0000	10.07	
	32 2-Methylnaphthalene	142	13.437	13.437	(1.120)	599866	5.00000	4.626	
	33 Hexachlorocyclopentadiene	237	13.902	13.902	(0.890)	400006	10.0000	9.110	

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	14.049	14.049	(0.899)	412369	10.0000	9.534
35	2,4,5-Trichlorophenol	196	14.118	14.118	(0.903)	447355	10.0000	9.484
$ 36	2-Fluorobiphenyl	172	14.211	14.211	(0.909)	693857	5.00000	4.539
37	2-Chloronaphthalene	162	14.436	14.436	(0.924)	564518	5.00000	4.689
38	2-Nitroaniline	65	14.691	14.691	(0.940)	358591	10.0000	10.26
39	Dimethylphthalate	163	15.109	15.109	(0.967)	635940	5.00000	4.697
40	Acenaphthylene	152	15.310	15.310	(0.980)	906435	5.00000	4.823
41	2,6-Dinitrotoluene	165	15.256	15.256	(0.976)	290165	10.0000	9.495
* 42	Acenaphthene-d10	164	15.628	15.628	(1.000)	353112	4.00000	
43	3-Nitroaniline	138	15.543	15.543	(0.995)	299675	10.0000	9.962
44	Acenaphthene	153	15.689	15.689	(1.004)	570787	5.00000	4.775
45	2,4-Dinitrophenol	184	15.759	15.759	(1.008)	348427	20.0000	14.41
46	Dibenzofuran	168	16.014	16.014	(1.025)	833627	5.00000	4.783
47	4-Nitrophenol	109	15.844	15.844	(1.014)	256006	10.0000	9.050
48	2,4-Dinitrotoluene	165	16.068	16.068	(1.028)	411837	10.0000	9.351
50	Diethylphthalate	149	16.571	16.571	(1.060)	738776	5.00000	5.255
49	Fluorene	166	16.733	16.733	(1.071)	691991	5.00000	4.813
51	4-Chlorophenyl-phenylether	204	16.710	16.710	(1.069)	339997	5.00000	4.749
52	4-Nitroaniline	138	16.825	16.825	(1.077)	290208	10.0000	9.791
53	4,6-Dinitro-2-methylphenol	198	16.918	16.918	(0.906)	493034	20.0000	17.63
54	N-Nitrosodiphenylamine	169	16.964	16.964	(0.908)	427724	5.00000	4.658
$ 55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	112608	7.50000	6.421
56	4-Bromophenyl-phenylether	248	17.728	17.728	(0.949)	197925	5.00000	4.566
57	Hexachlorobenzene	284	18.052	18.052	(0.966)	193733	5.00000	4.452
58	Pentachlorophenol	266	18.401	18.401	(0.985)	244505	10.0000	7.944
* 59	Phenanthrene-d10	188	18.679	18.679	(1.000)	694933	4.00000	
60	Phenanthrene	178	18.726	18.726	(1.002)	941617	5.00000	4.618
61	Anthracene	178	18.818	18.818	(1.007)	905465	5.00000	4.805
62	Carbazole	167	19.136	19.136	(1.024)	833509	5.00000	4.997
63	Di-n-butylphthalate	149	19.902	19.902	(1.065)	1142504	5.00000	4.483
64	Fluoranthene	202	21.085	21.085	(0.890)	1147261	5.00000	4.639
65	Pyrene	202	21.511	21.511	(0.908)	1156414	5.00000	4.680
$ 66	Terphenyl-d14	244	21.782	21.782	(0.919)	886677	5.00000	4.538
67	Butylbenzylphthalate	149	22.695	22.695	(0.958)	457246	5.00000	4.105
68	Benzo(a)anthracene	228	23.663	23.663	(0.999)	1046594	5.00000	4.772
* 69	Chrysene-d12	240	23.694	23.694	(1.000)	553967	4.00000	
70	3,3'-Dichlorobenzidine	252	23.609	23.609	(0.996)	1021392	15.0000	14.48
71	Chrysene	228	23.741	23.741	(1.002)	939413	5.00000	4.786
72	bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	641146	5.00000	4.970
* 134	Di-n-octylphthalate-d4	153	24.739	24.739	(1.000)	895601	4.00000	
73	Di-n-octylphthalate	149	24.747	24.747	(1.000)	1153744	5.00000	4.883
74	Benzo(b)fluoranthene	252	25.676	25.676	(0.968)	953347	5.00000	4.809
75	Benzo(k)fluoranthene	252	25.730	25.730	(0.970)	947715	5.00000	4.818
76	Benzo(a)pyrene	252	26.404	26.404	(0.995)	796531	5.00000	4.800
* 77	Perylene-d12	264	26.528	26.528	(1.000)	482573	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.498	29.498	(1.112)	955822	5.00000	4.795
79	Dibenzo(a,h)anthracene	278	29.514	29.514	(1.113)	793593	5.00000	4.754
80	Benzo(g,h,i)perylene	276	30.376	30.376	(1.145)	762369	5.00000	4.798
90	N-Nitrosodimethylamine	74	5.090	5.090	(1.000)	275603	10.0000	9.396
91	Aniline	93	8.953	8.953	(1.000)	561409	10.0000	9.730
93	Benzidine	184	21.310	21.310	(0.899)	742949	10.0000	8.096
103	Pyridine	79	5.114	5.114	(1.000)	418138	10.0000	9.040
105	1-methylnaphthalene	142	13.662	13.662	(1.139)	549270	5.00000	4.620
111	Azobenzene (1,2-DP-Hydrazine)	77	17.041	17.041	(1.090)	707436	5.00000	5.151

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.676	25.676	(0.968)	1837584	10.0000	9.630
120 2,3,4,6-Tetrachlorophenol	232	16.346	16.346	(1.046)	214878	5.00000	4.587

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052303.D
Lab Smp Id: SLE0101-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	179464	0.00
27 Naphthalene-d8	621628	310814	1243256	621628	0.00
42 Acenaphthene-d10	353112	176556	706224	353112	0.00
59 Phenanthrene-d10	694933	347467	1389866	694933	0.00
69 Chrysene-d12	553967	276984	1107934	553967	0.00
134 Di-n-octylphthala	895601	447801	1791202	895601	0.00
77 Perylene-d12	482573	241287	965146	482573	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	0.00
27 Naphthalene-d8	12.00	11.50	12.50	12.00	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.69	23.19	24.19	23.69	0.00
134 Di-n-octylphthala	24.74	24.24	25.24	24.74	0.00
77 Perylene-d12	26.53	26.03	27.03	26.53	0.00

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

REVIEW SUMMARY FOR FILE - NT1005052303.D

Lab ID: SLE0101-ICV1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 11:37

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

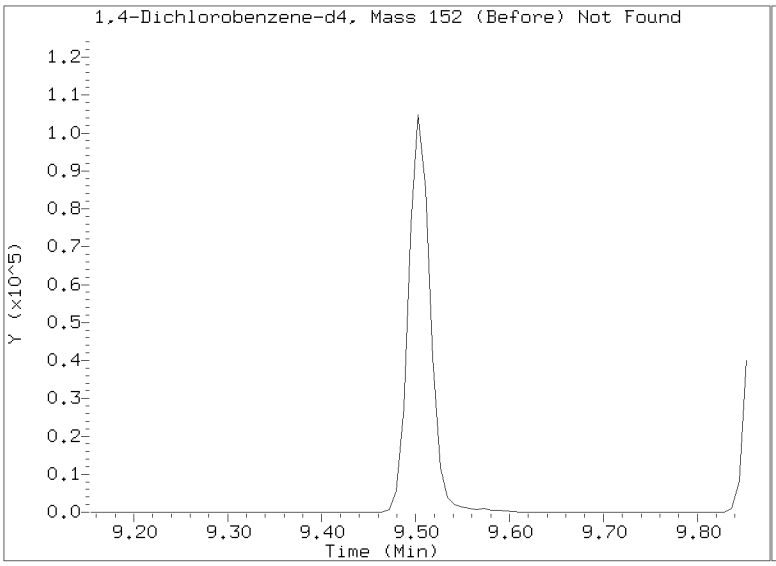
No RRT check. Ccal file.

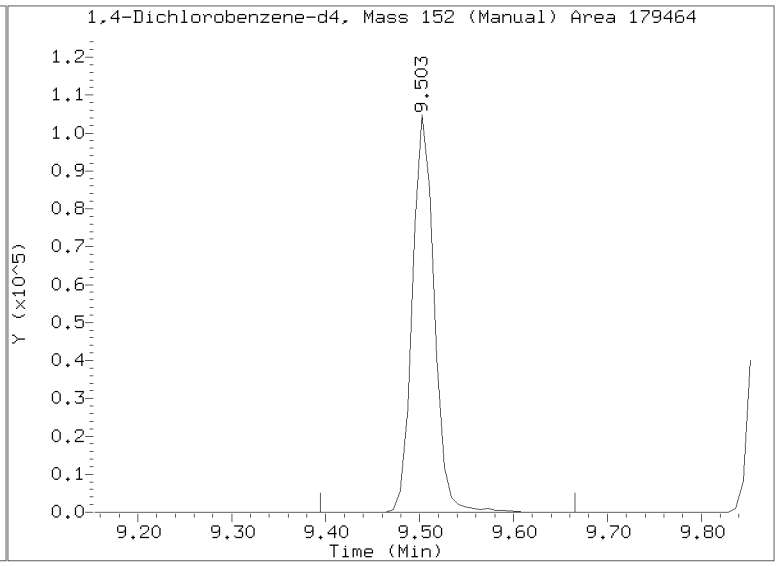
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

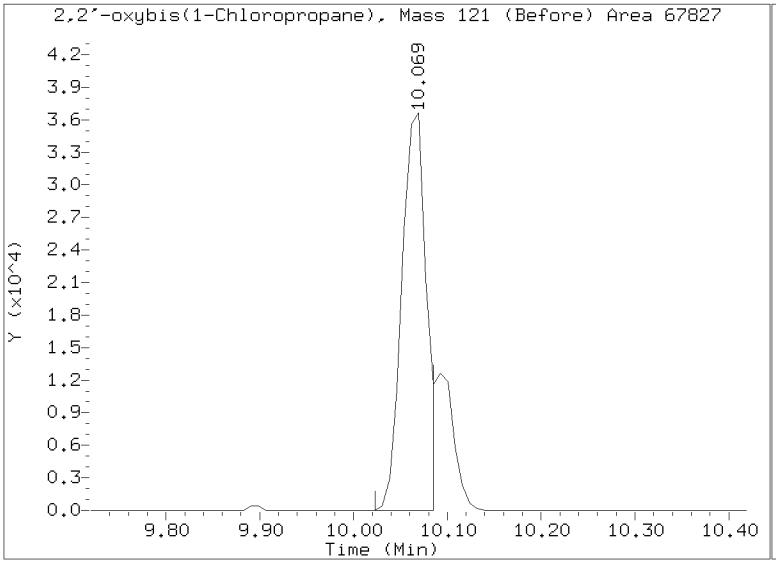
* Only compounds listed in the work order have been verified by the analyst *

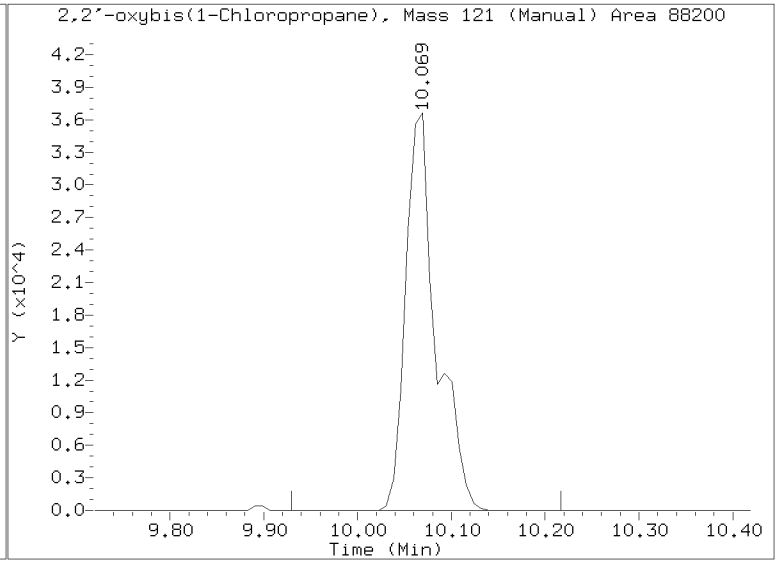
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052303.D
Injection Date: 05-MAY-2023 11:37
Lab ID:SLE0101-ICV1 Client ID:
Report Date: 05/08/2023 10:14









APPROVED

By Deenay Dunmore at 10:38 am, May 08, 2023

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230505.b

Instrument: nt10.i Date: 05-MAY-2023 Method: 20230505.b\ABN.m

INITIAL CAL: 01-MAY-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1005052303.D 05-MAY-2023 11:37

Compound	%D
1,2,4-Trichlorobenzene	-24.1
Benzoic acid	-44.5
2,4-Dinitrophenol	-27.9
Pentachlorophenol	-20.6

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

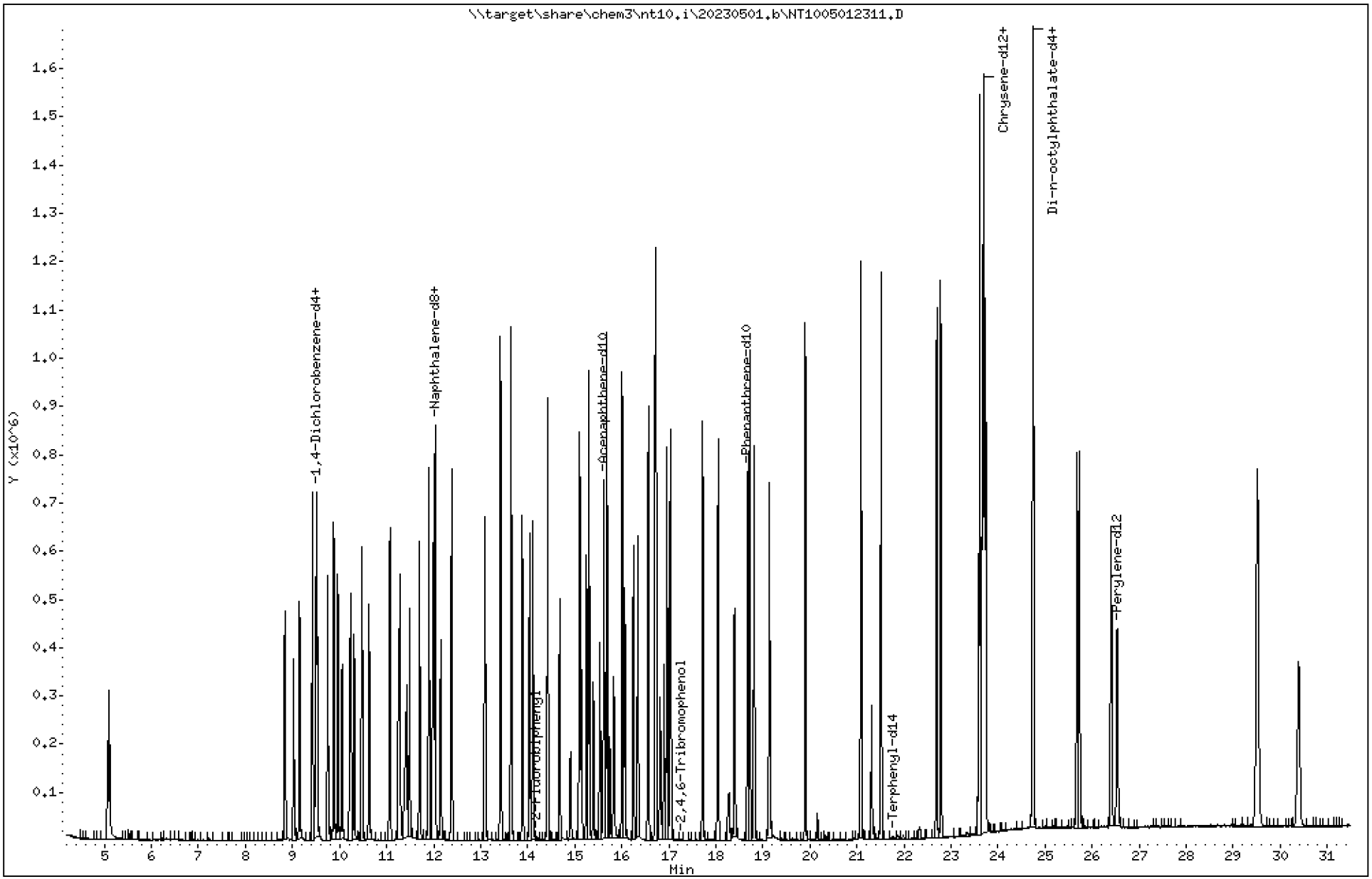
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00012
Lab File ID:	NT1005012311.D	Calibration Date:	05/01/2023
Sequence:	SLE0036	Injection Date:	05/01/23
Lab Sample ID:	SLE0036-SCV1	Injection Time:	20:43
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.5	1.5603090	1.3990760		-10.3	+/-20
4-Methylphenol	A	5.0000	4.4	1.3738470	1.2201590		-11.2	+/-20
Naphthalene	A	5.0000	4.7	1.1159900	1.0584070		-5.2	+/-20
2-Methylnaphthalene	A	5.0000	4.5	0.8343963	0.7531649		-9.7	+/-20
Acenaphthylene	A	5.0000	4.8	2.1289490	2.0334620		-4.5	+/-20
Dimethylphthalate	A	5.0000	4.9	1.5336640	1.5053310		-1.8	+/-20
Acenaphthene	A	5.0000	4.7	1.3540250	1.2771320		-5.7	+/-20
Dibenzofuran	A	5.0000	4.6	1.9742250	1.8340260		-7.1	+/-20
Fluorene	A	5.0000	4.6	1.6286350	1.4849650		-8.8	+/-20
Phenanthrene	A	5.0000	4.6	1.1736900	1.0765070		-8.3	+/-20
Anthracene	A	5.0000	4.2	1.0845870	0.9043802		-16.6	+/-20
Fluoranthene	A	5.0000	4.7	1.7858880	1.6922910		-5.2	+/-20
Pyrene	A	5.0000	4.6	1.7840190	1.6539620		-7.3	+/-20
Butylbenzylphthalate	A	5.0000	4.8	0.6671669	0.7636562		-4.4	+/-20
Benzo(a)anthracene	A	5.0000	4.7	1.5835210	1.4937450		-5.7	+/-20
Chrysene	A	5.0000	4.5	1.4173070	1.2869330		-9.2	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.4	0.5761948	0.6229883		8.1	+/-20
Benzofluoranthenes, Total	A	10.000	9.2	1.5816940	1.4526430		-8.2	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.3753650	1.3168440		-4.3	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.7	1.6522640	1.5455280		-6.5	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.6	1.3837630	1.2866390		-7.0	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.7	1.3169650	1.2270470		-6.8	+/-20
2-Fluorophenol	A	7.5000	0.00	1.2103940				+/-20
Phenol-d5	A	7.5000	0.00	1.4592840				+/-20
2-Chlorophenol-d4	A	7.5000	0.00	1.3984790				+/-20
1,2-Dichlorobenzene-d4	A	5.0000	0.00	1.0316970				+/-20
Nitrobenzene-d5	A	5.0000	0.00	0.4469969				+/-20
2-Fluorobiphenyl	A	5.0000	0.0225	1.7317170	0.0077802		-99.6	+/-20
2,4,6-Tribromophenol	A	7.5000	0.0142	0.1786492	0.0003619		-99.8	+/-20
p-Terphenyl-d14	A	5.0000	0.0225	1.4109530	0.0063613		-99.5	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D
Date : 01-MAY-2023 20:43
Client ID:
Sample Info: SLE0036-SCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1097 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

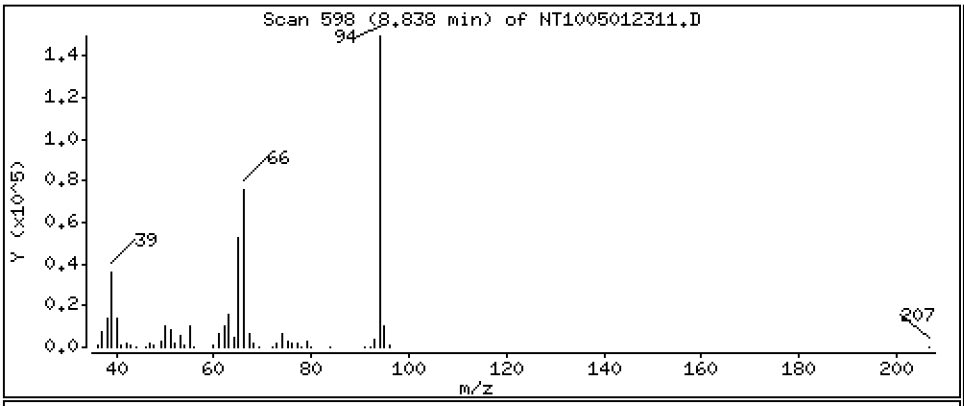
Operator: VTS

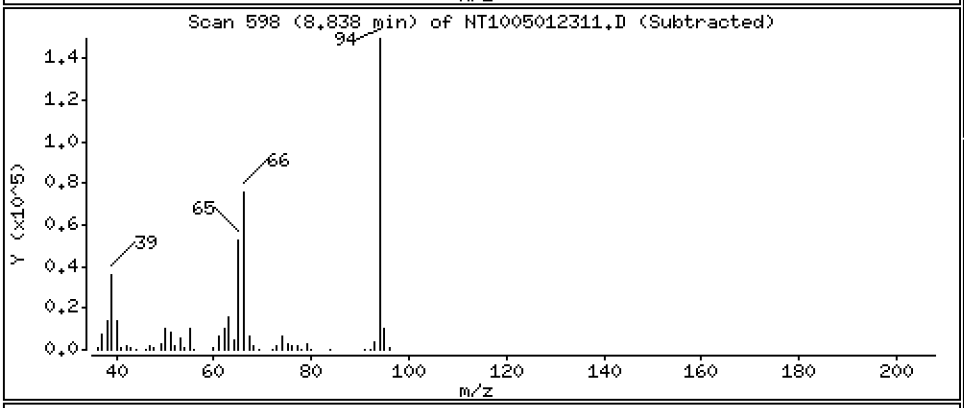
Column phase: ZB-5msi

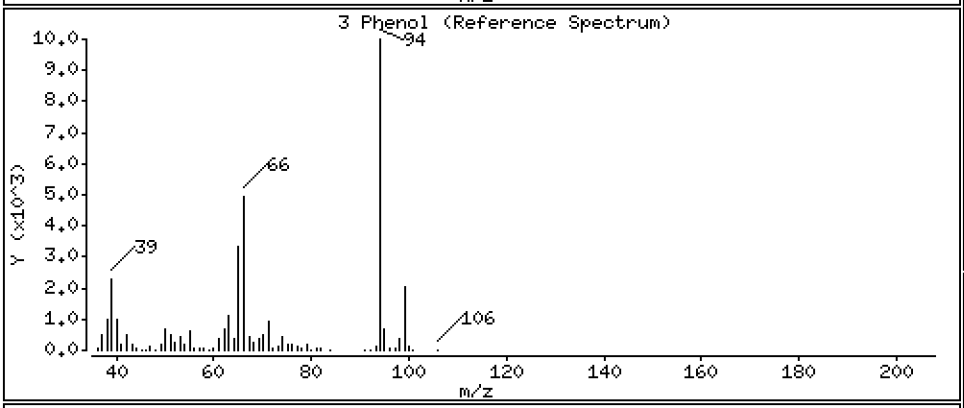
Column diameter: 0.25

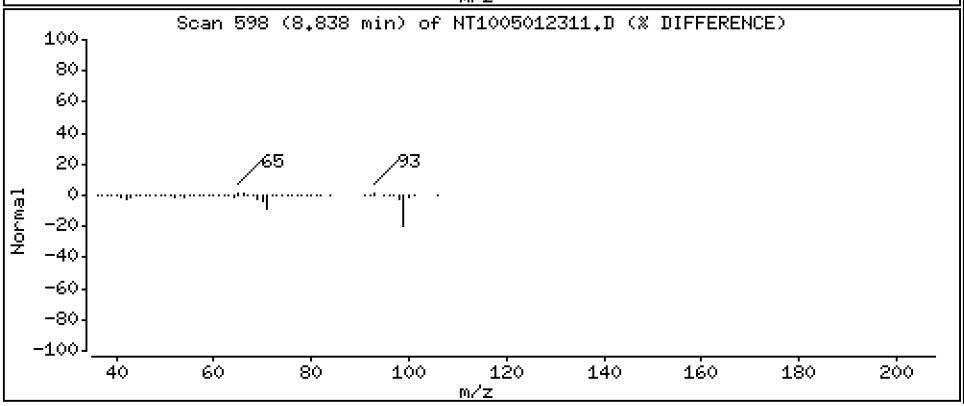
3 Phenol

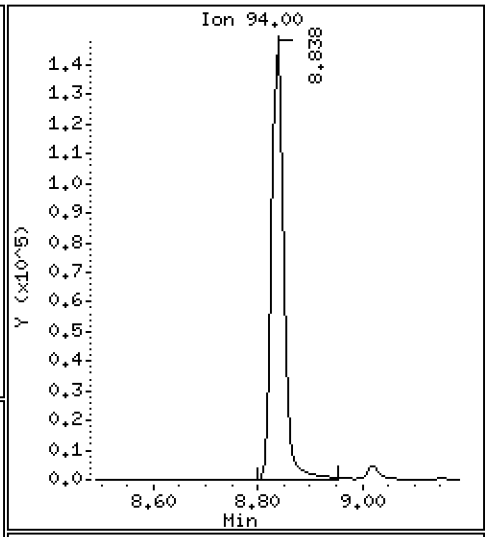
Concentration: 4.483 ug/mL

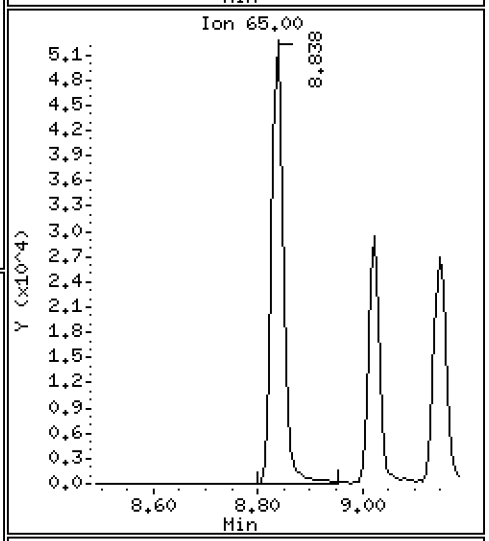


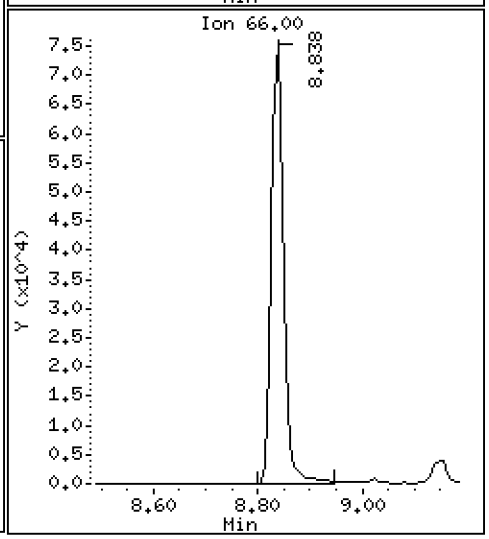












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

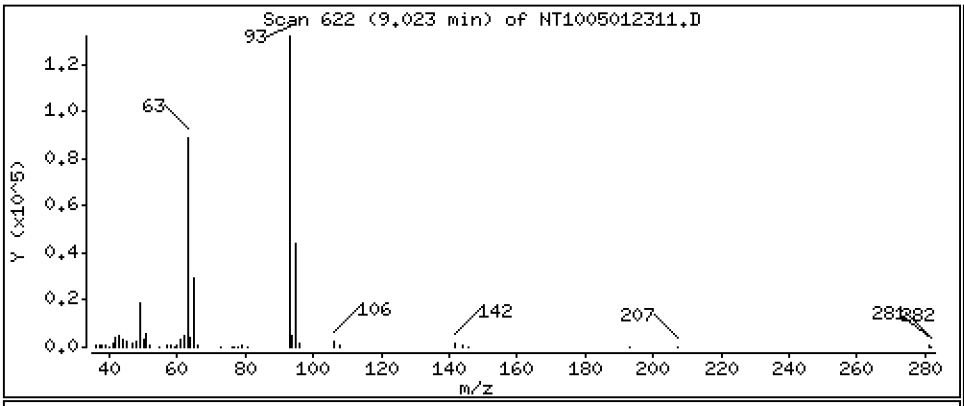
Operator: VTS

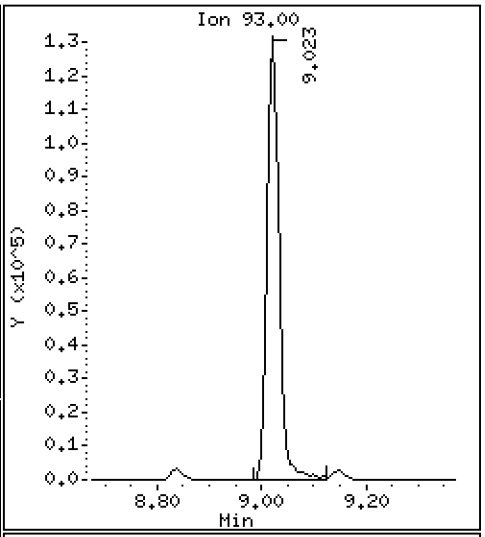
Column phase: ZB-5msi

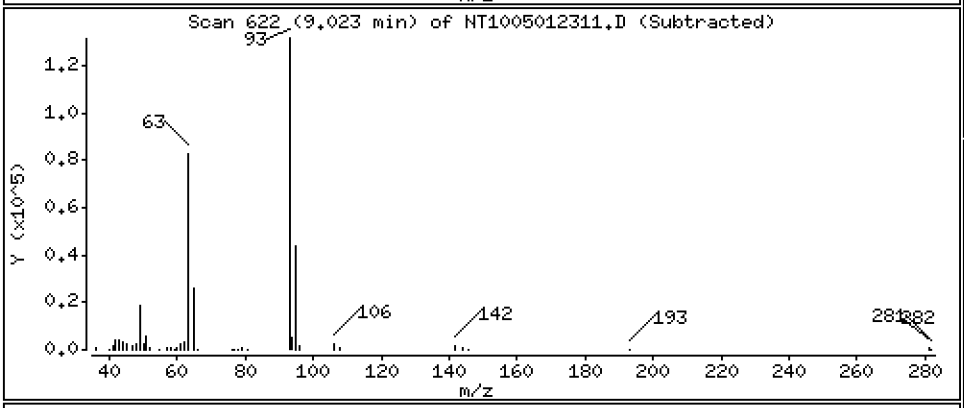
Column diameter: 0.25

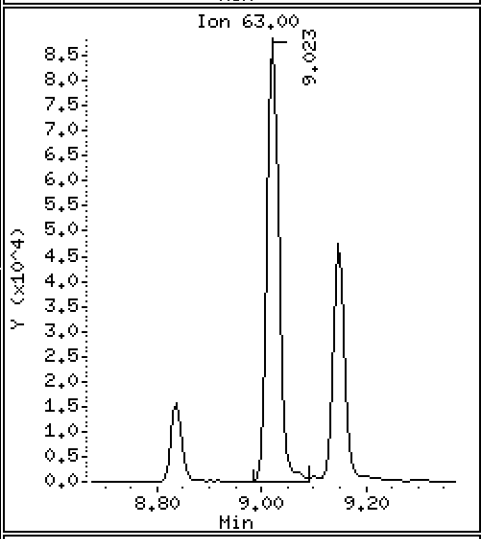
4 Bis(2-Chloroethyl)ether

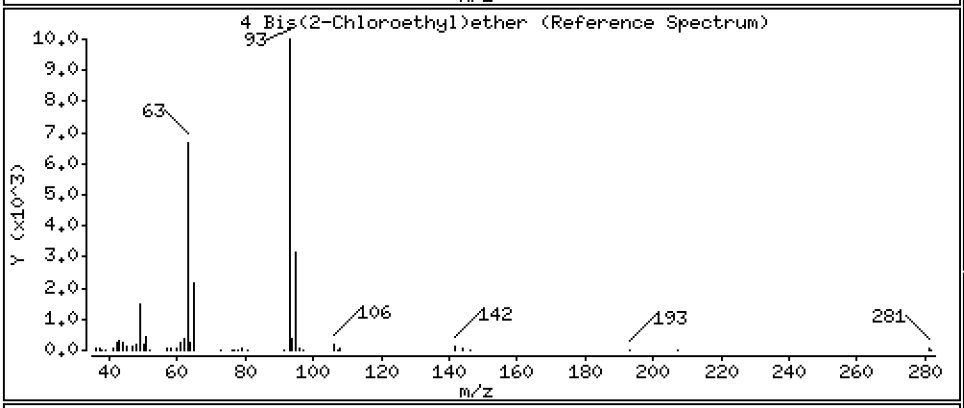
Concentration: 5.502 ug/mL

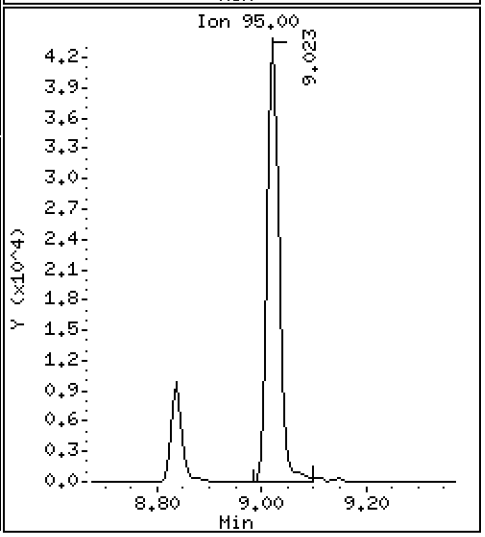


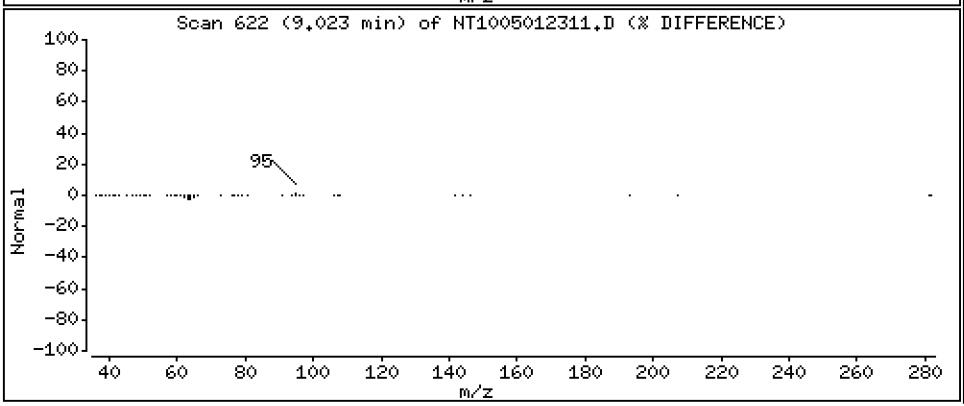












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

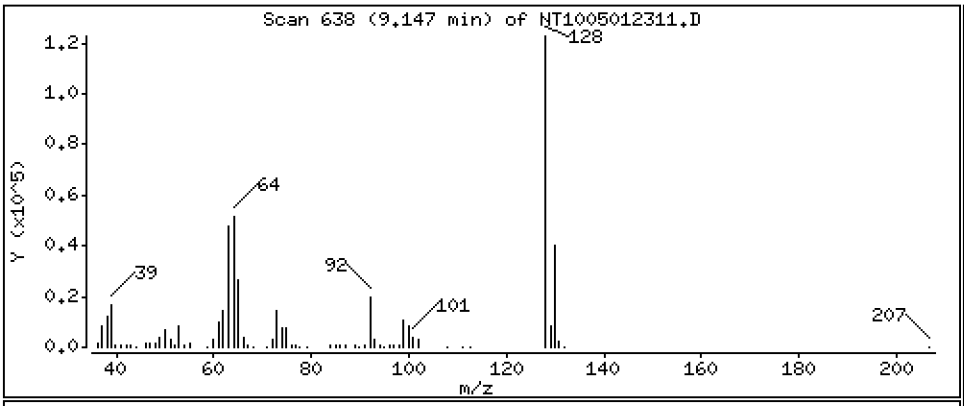
Operator: VTS

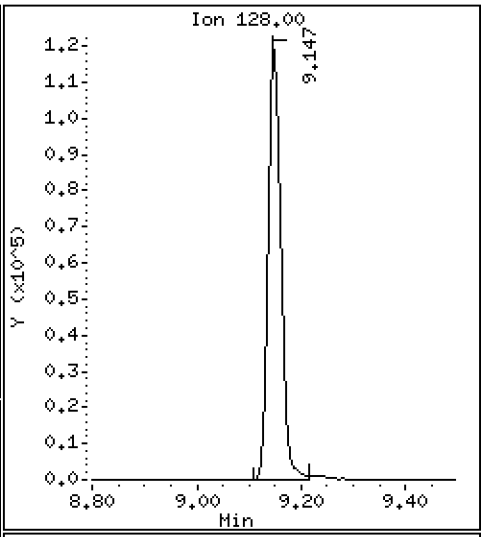
Column phase: ZB-5msi

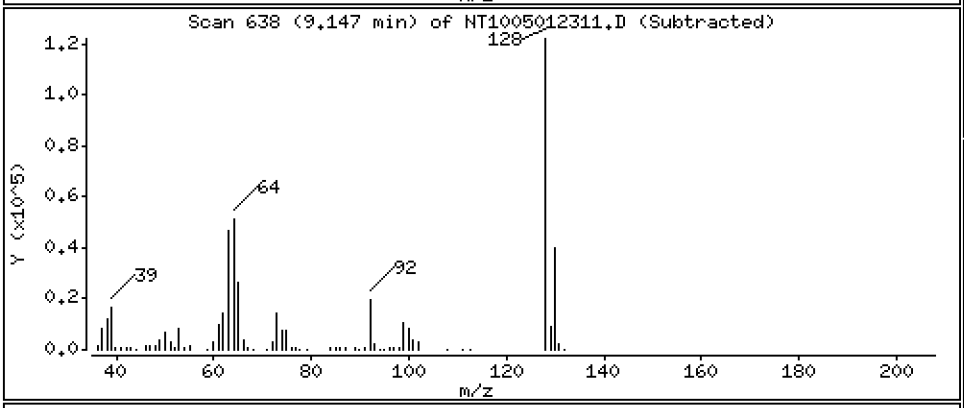
Column diameter: 0.25

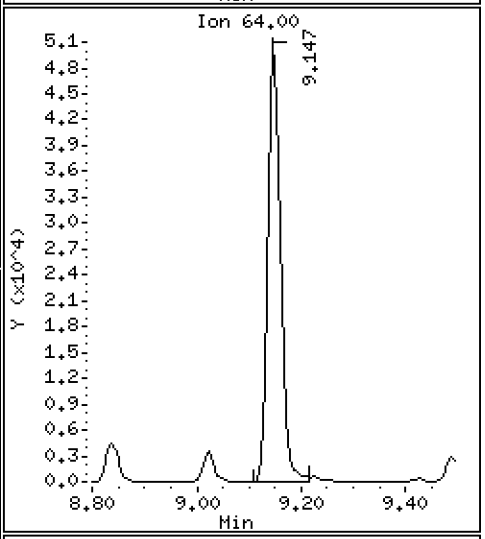
6 2-Chlorophenol

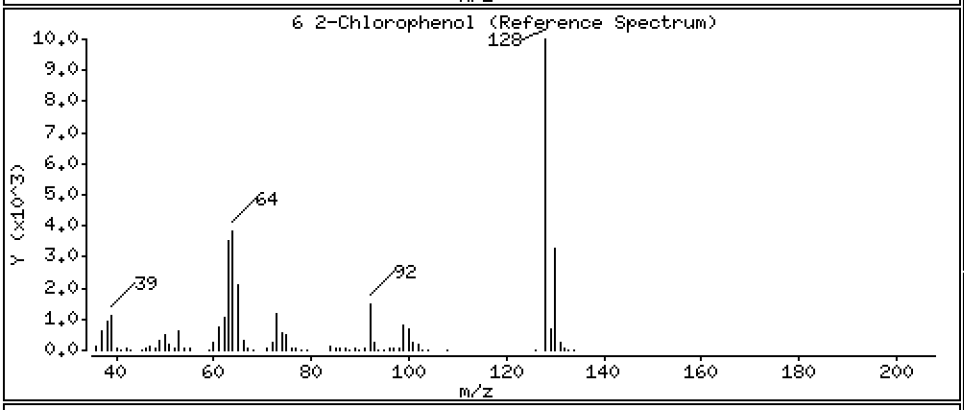
Concentration: 4.456 ug/mL

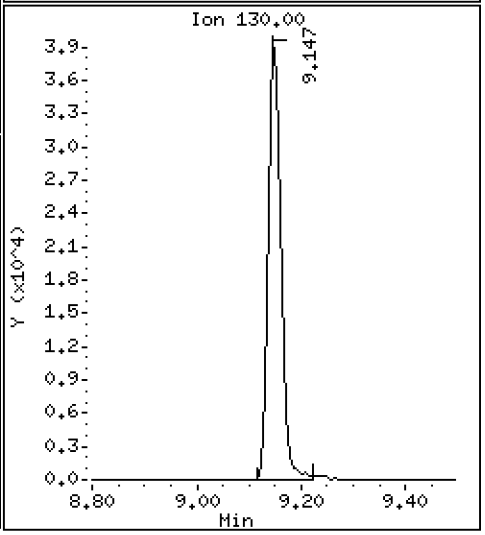


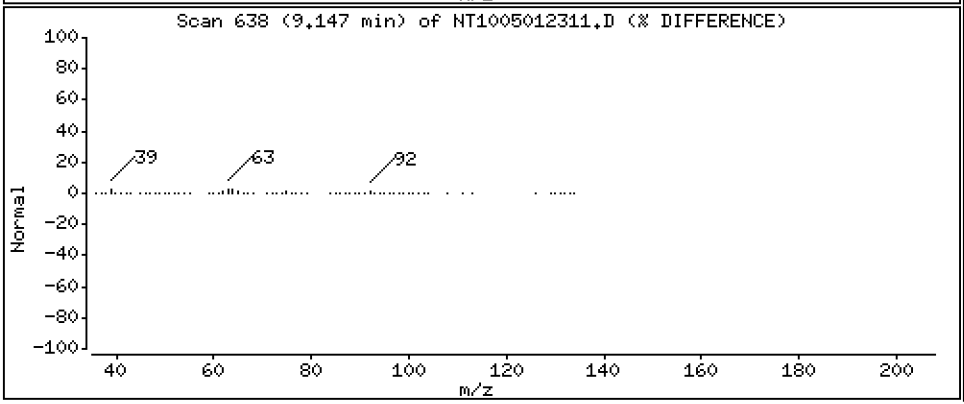












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

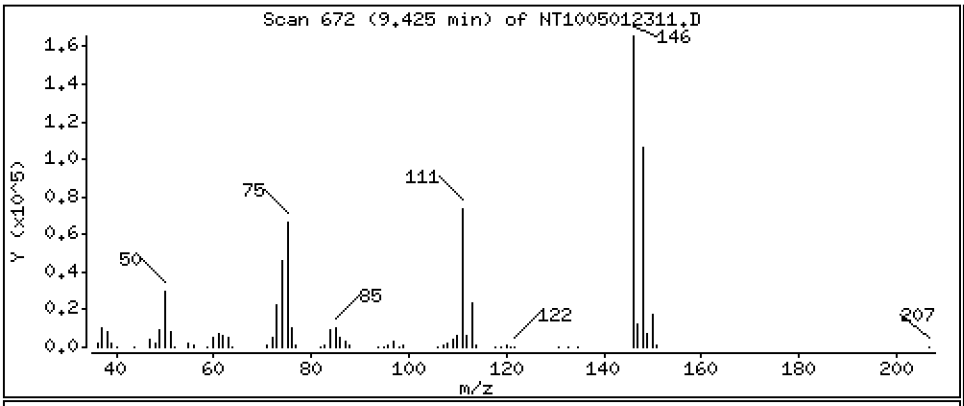
Operator: VTS

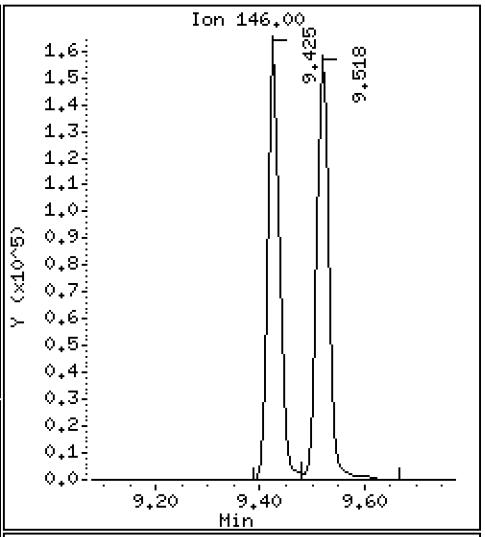
Column phase: ZB-5msi

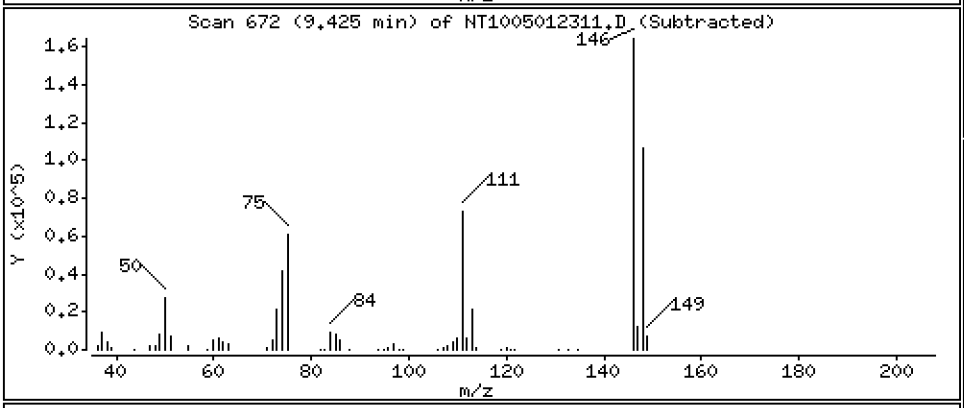
Column diameter: 0.25

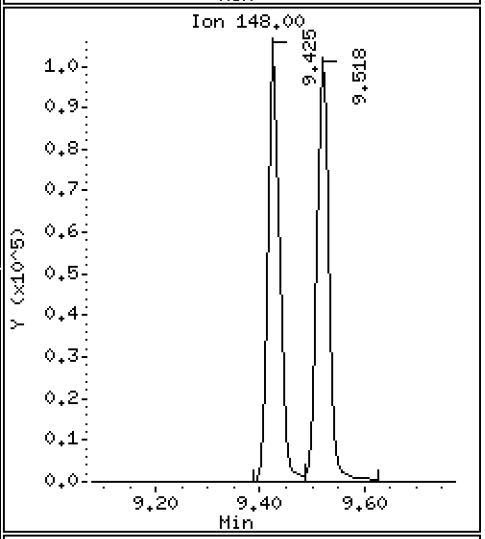
7 1,3-Dichlorobenzene

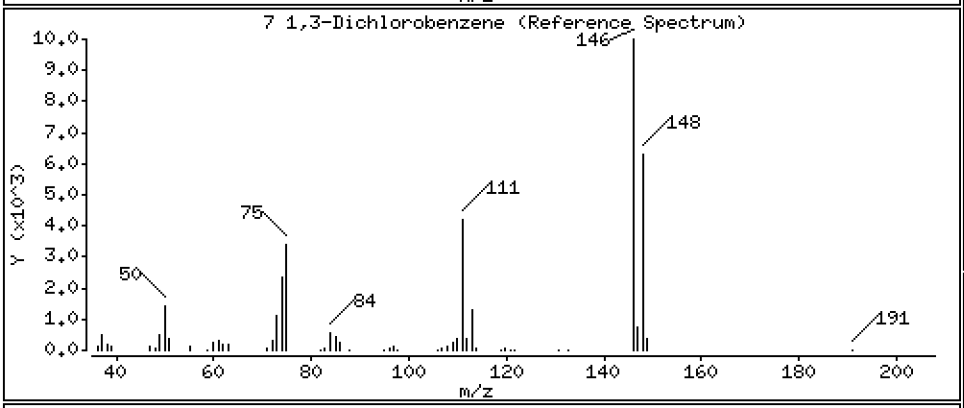
Concentration: 4.939 ug/mL

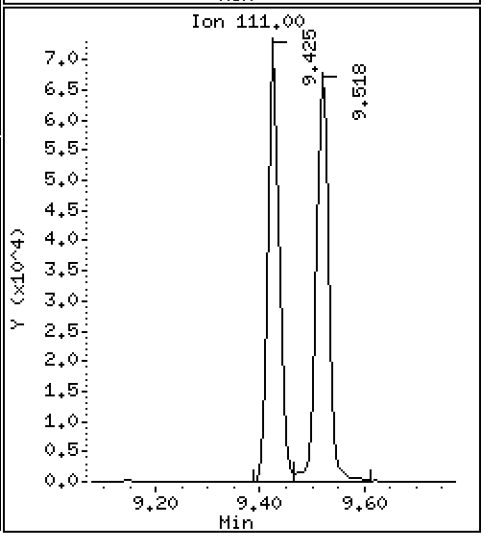


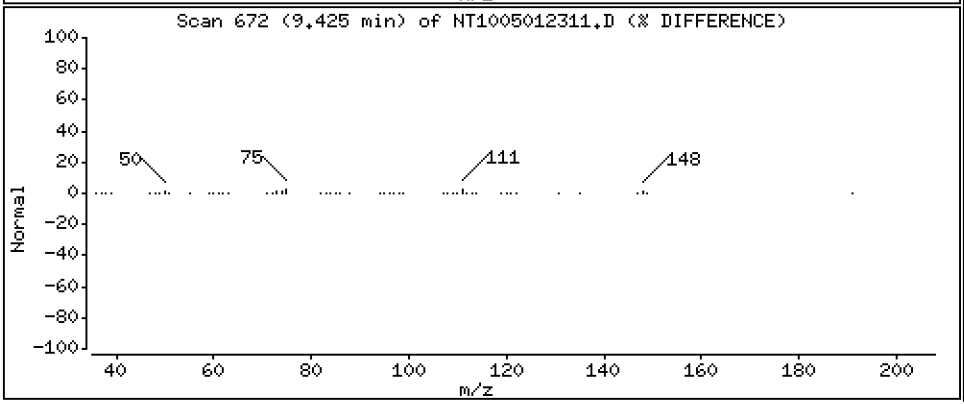












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

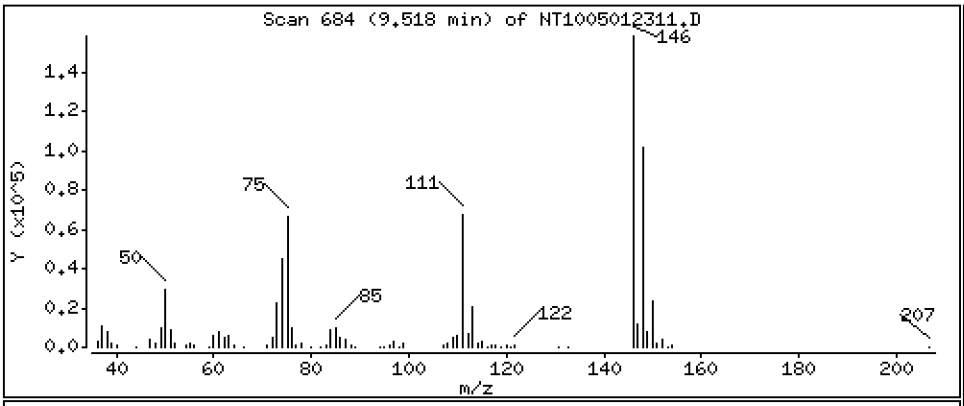
Operator: VTS

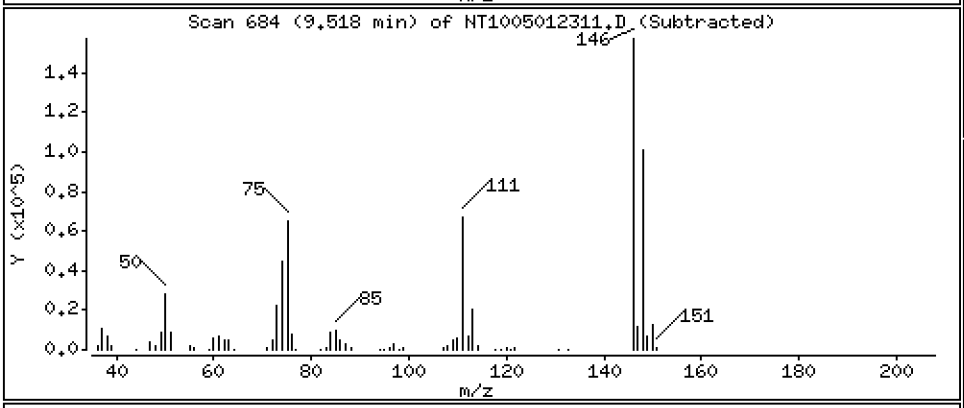
Column phase: ZB-5msi

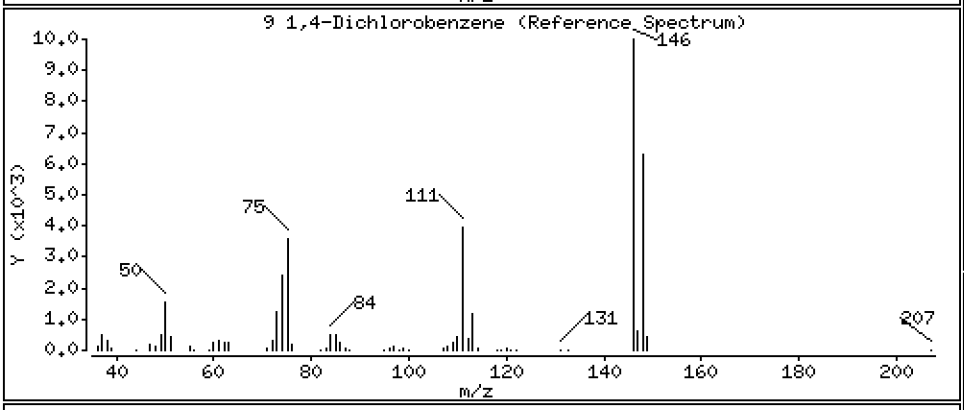
Column diameter: 0.25

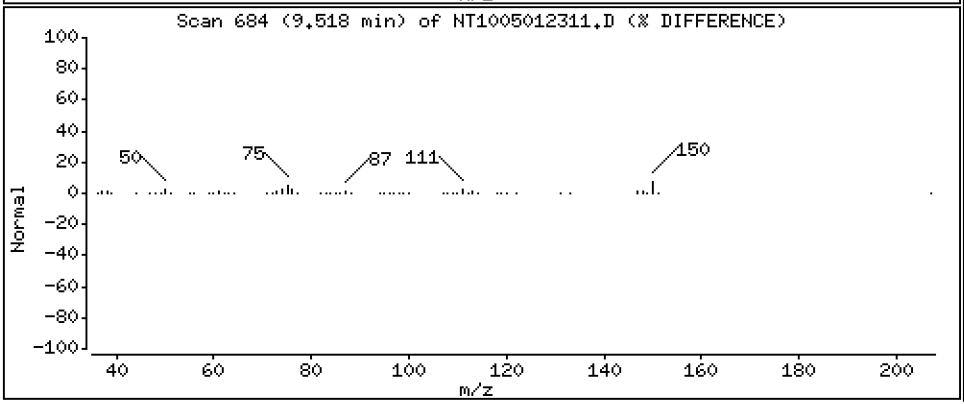
9 1,4-Dichlorobenzene

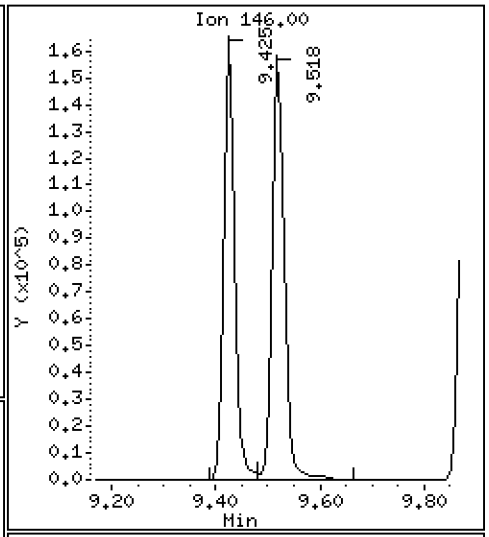
Concentration: 5.492 ug/mL

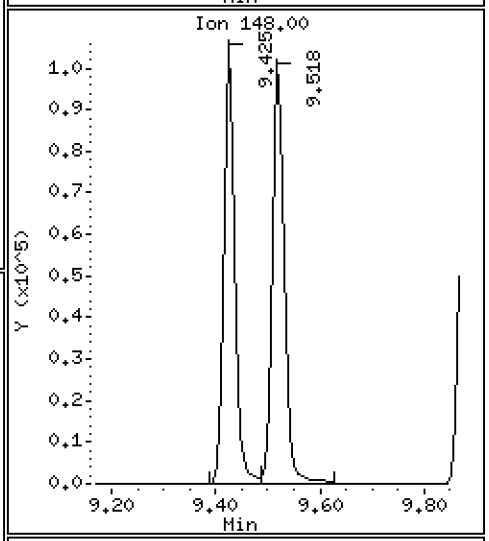


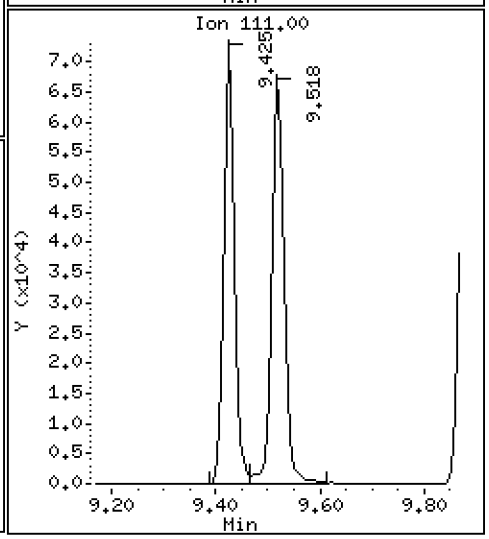












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

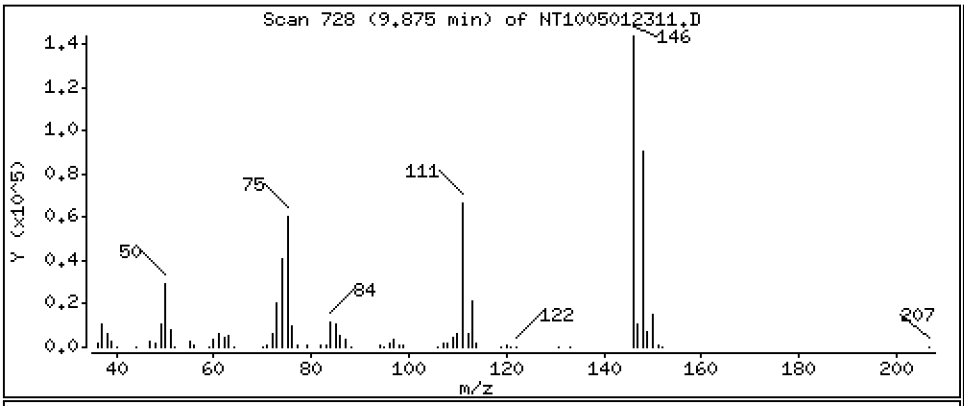
Operator: VTS

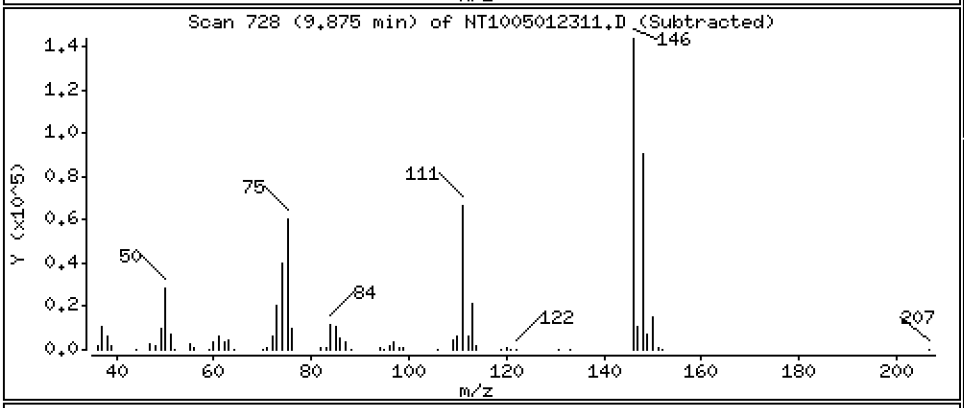
Column phase: ZB-5msi

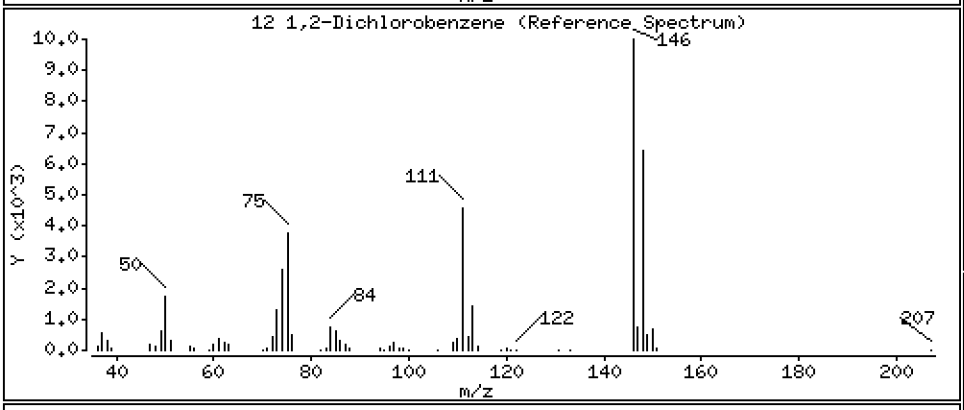
Column diameter: 0.25

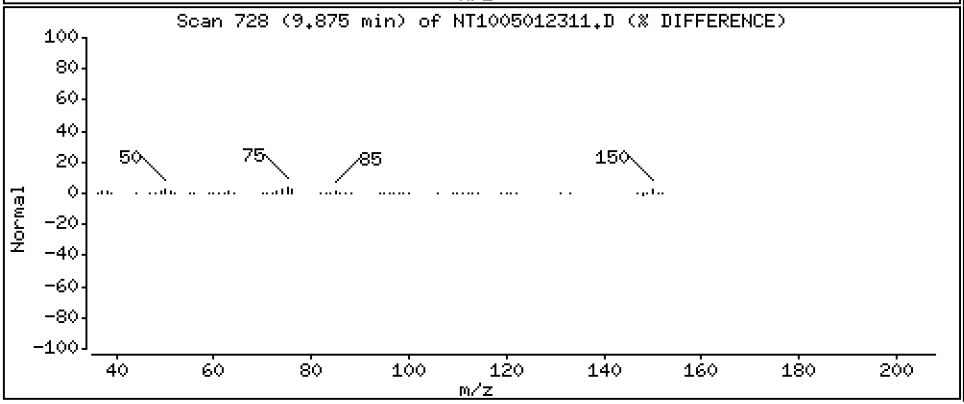
12 1,2-Dichlorobenzene

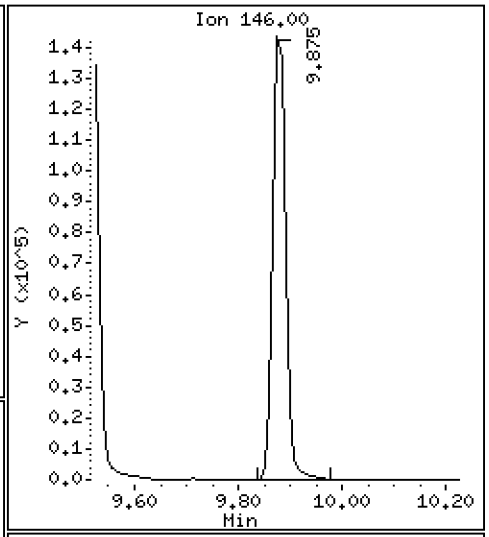
Concentration: 4.938 ug/mL

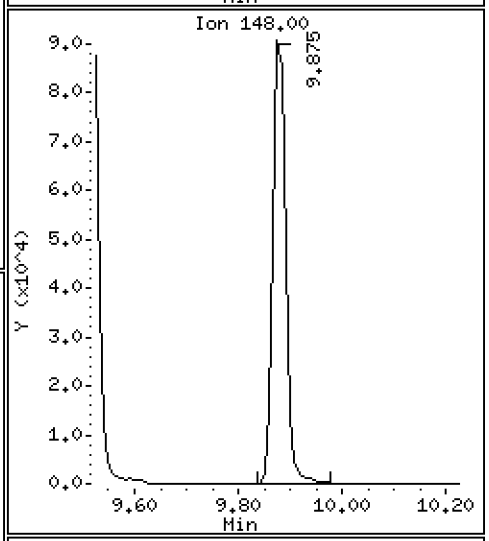


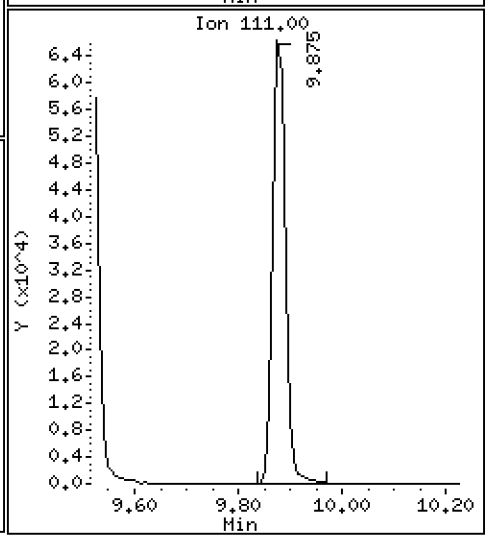












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

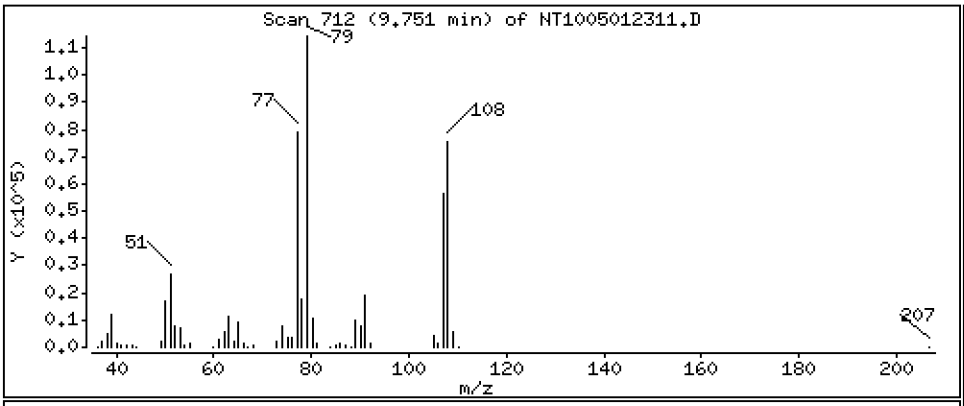
Operator: VTS

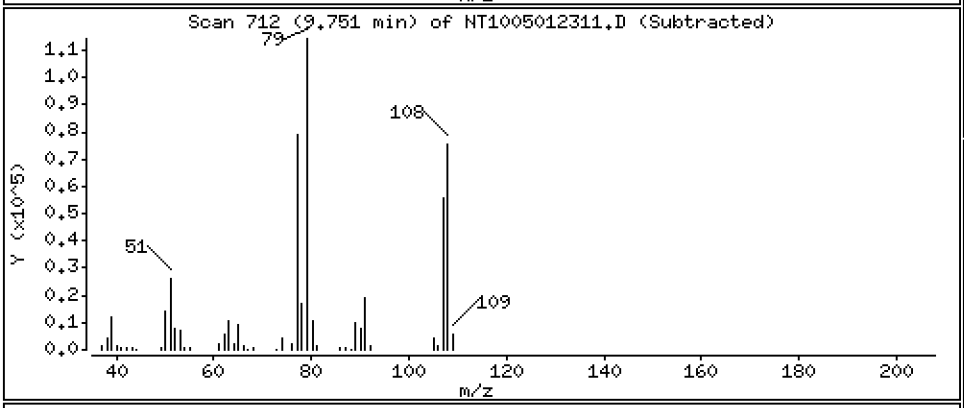
Column phase: ZB-5msi

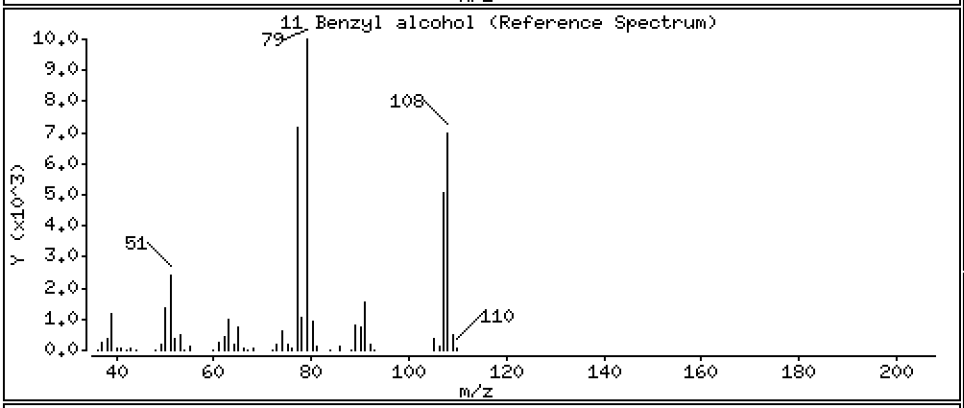
Column diameter: 0.25

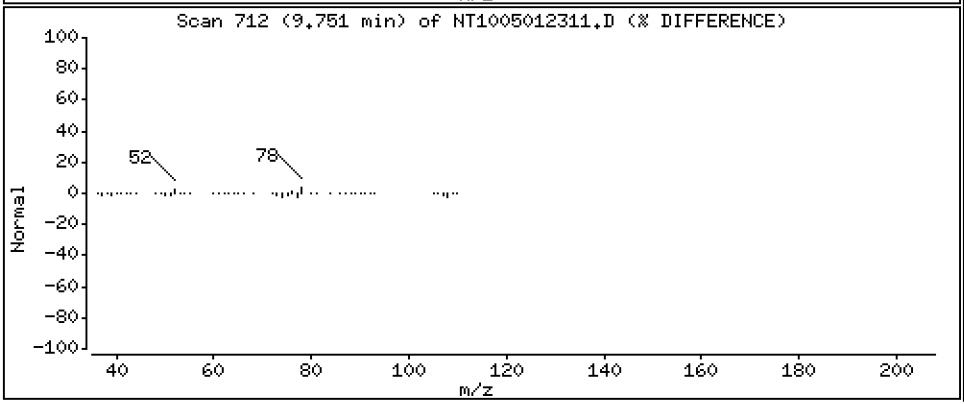
11 Benzyl alcohol

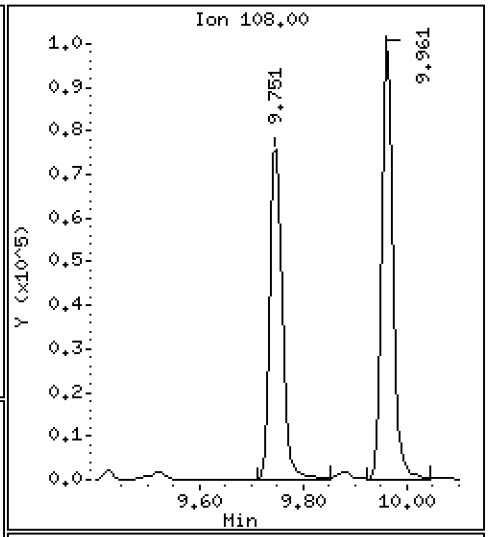
Concentration: 5.069 ug/mL

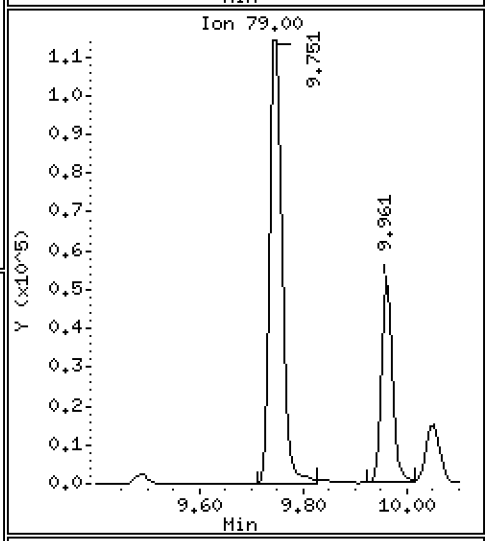


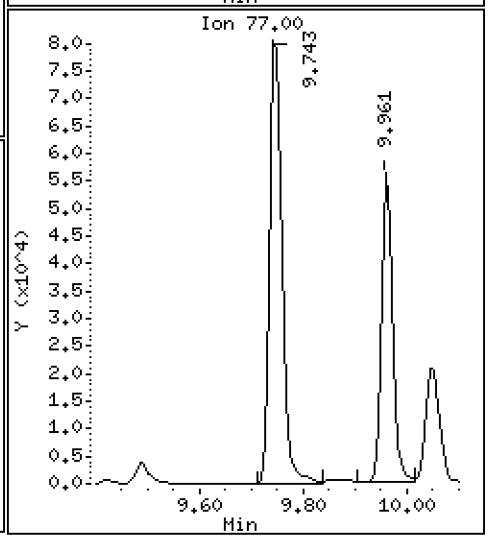












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

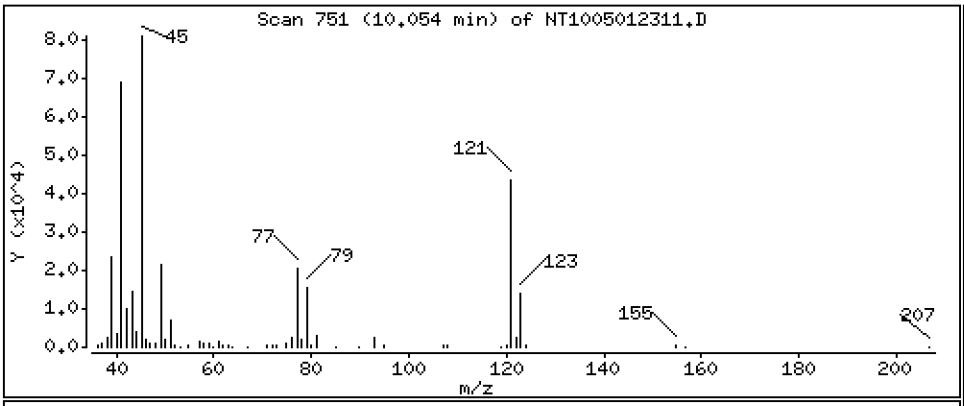
Operator: VTS

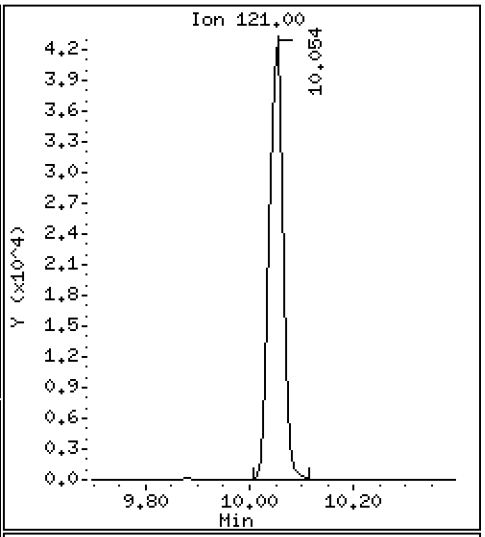
Column phase: ZB-5msi

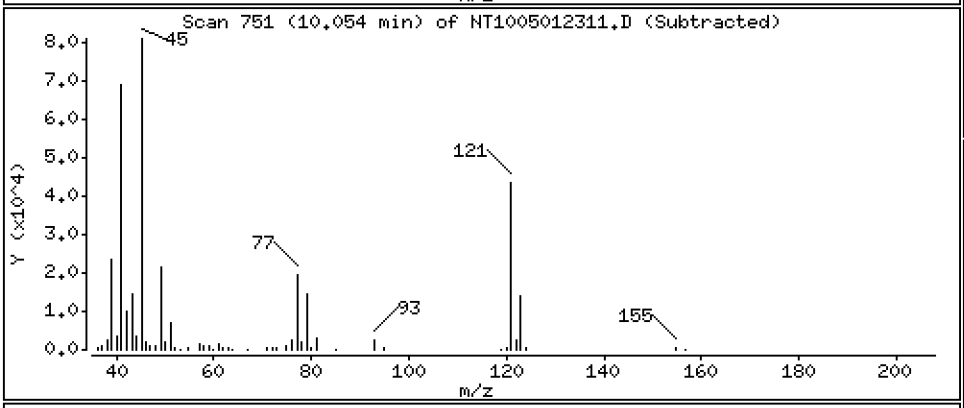
Column diameter: 0.25

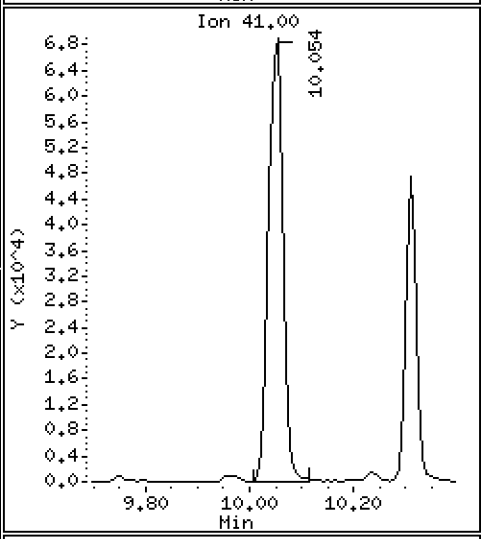
14 2,2'-oxybis(1-Chloropropane)

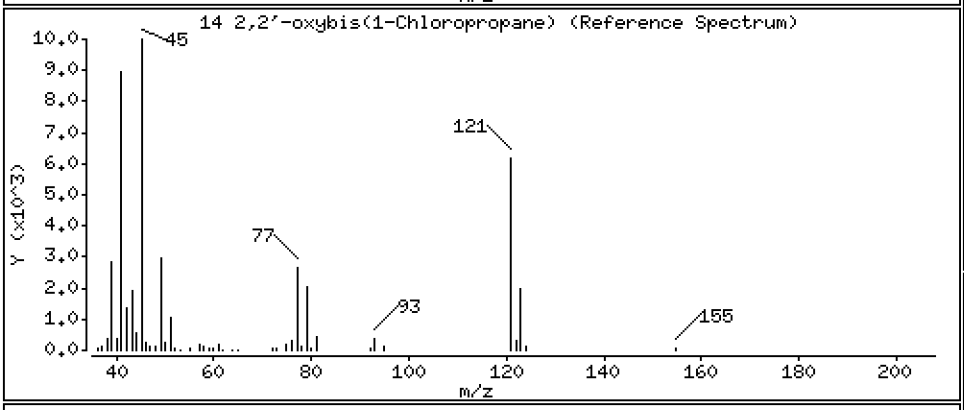
Concentration: 5.603 ug/mL

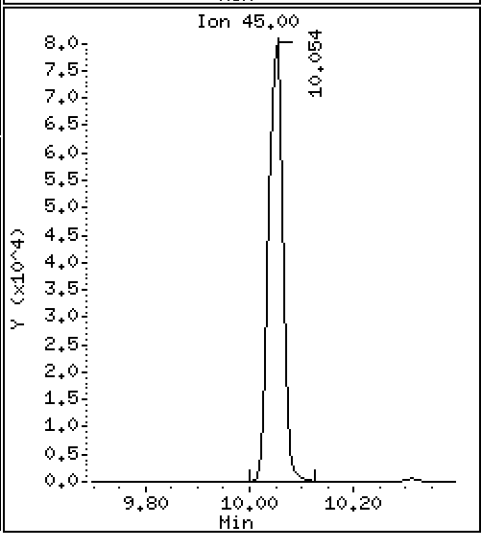


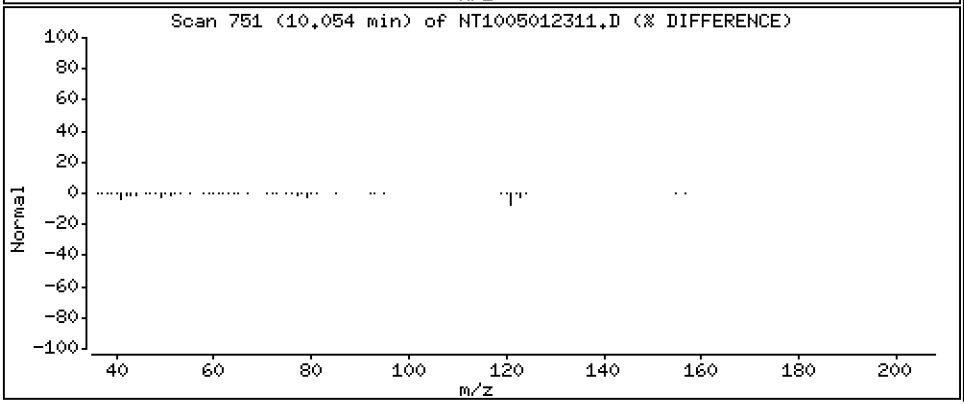












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

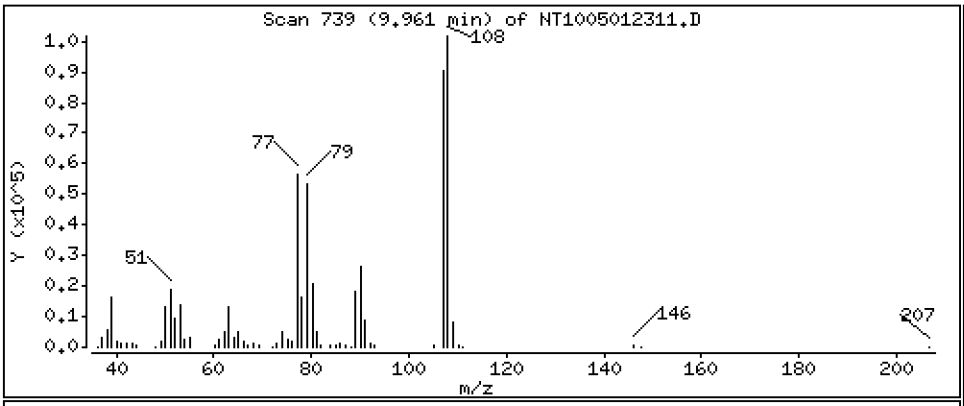
Operator: VTS

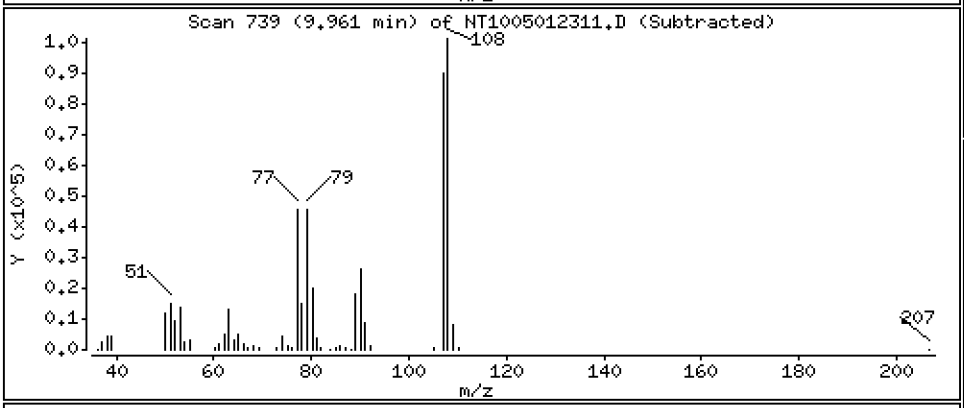
Column phase: ZB-5msi

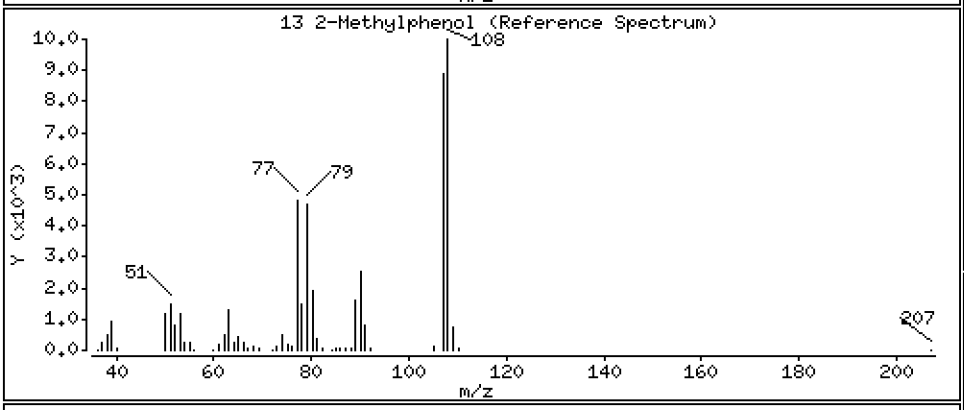
Column diameter: 0.25

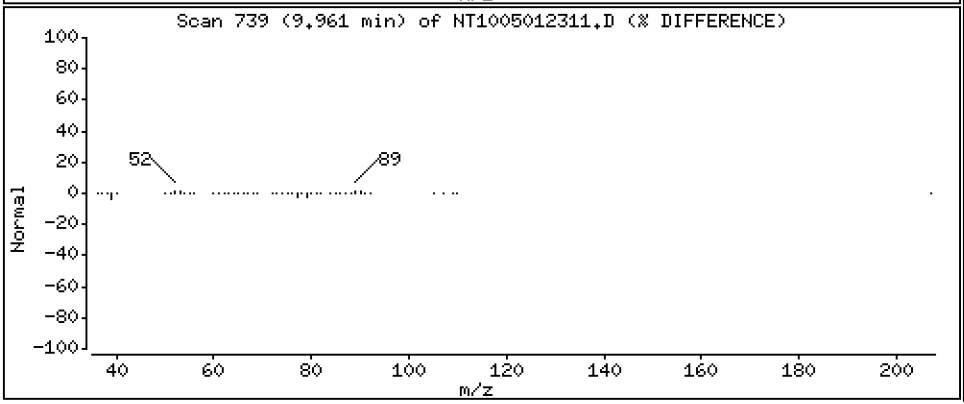
13 2-Methylphenol

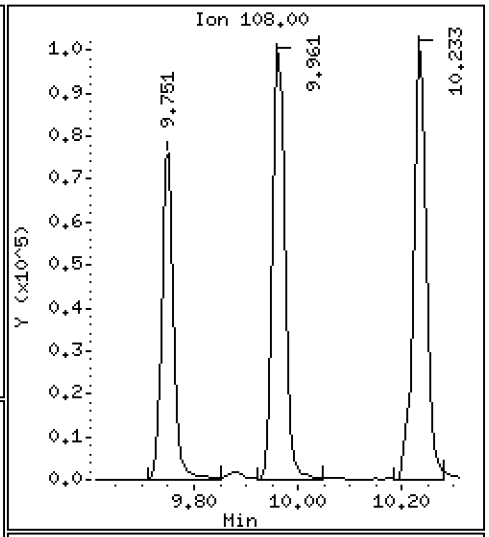
Concentration: 4.232 ug/mL

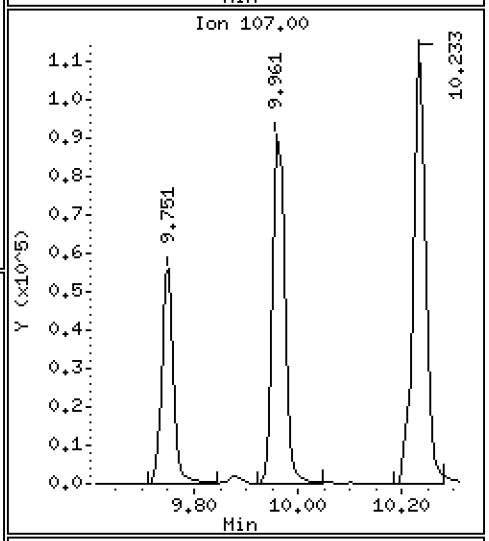


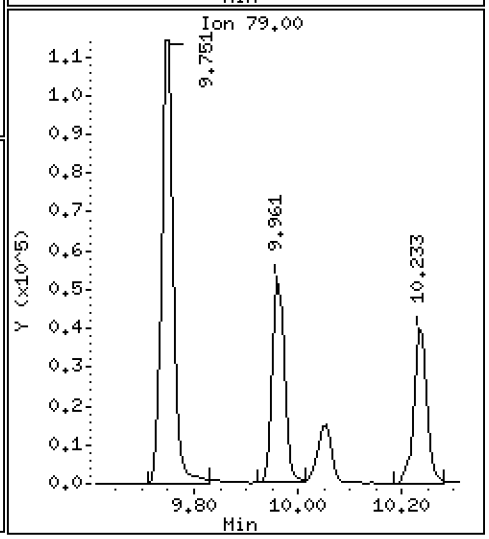












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

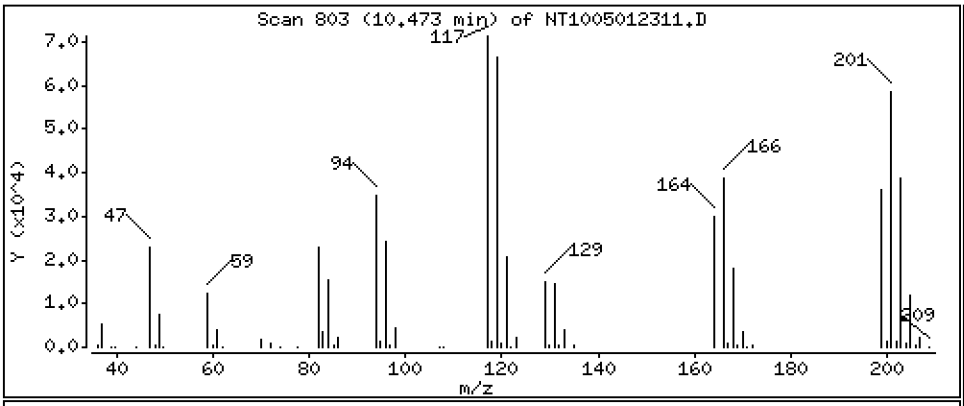
Operator: VTS

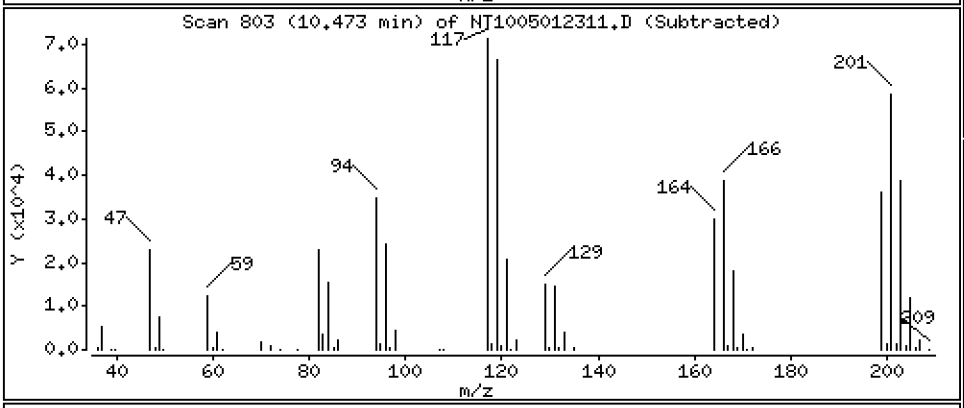
Column phase: ZB-5msi

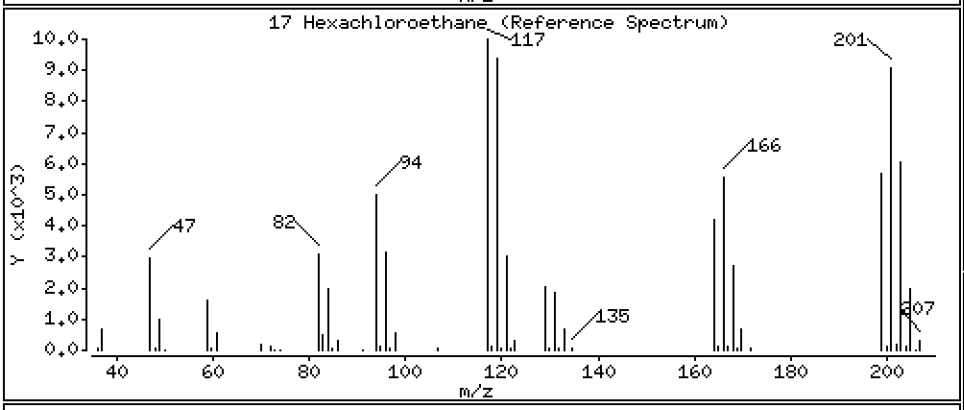
Column diameter: 0.25

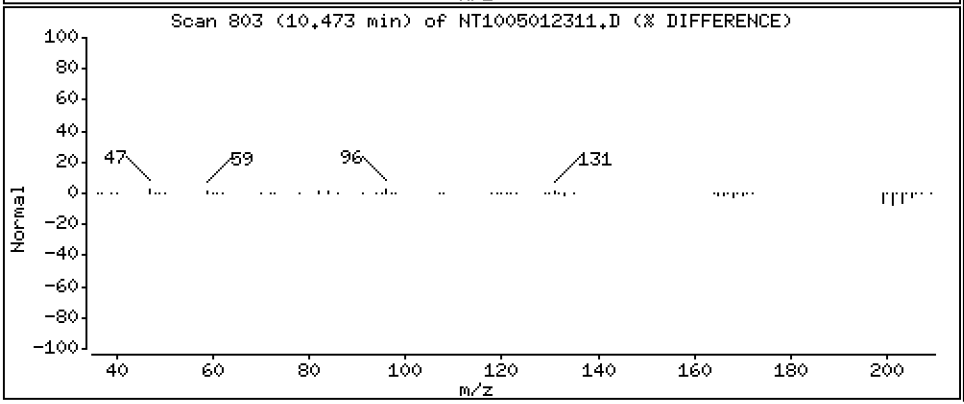
17 Hexachloroethane

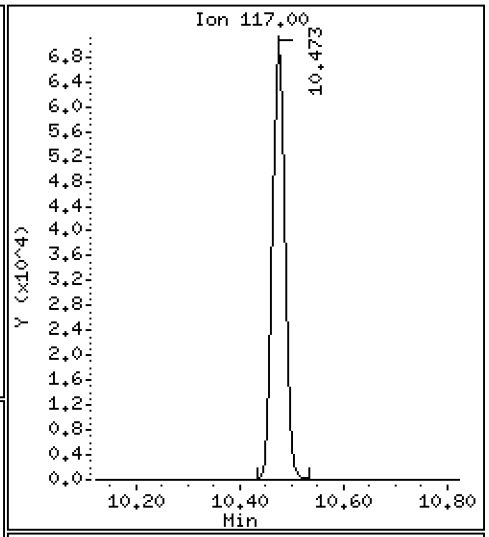
Concentration: 5.275 ug/mL

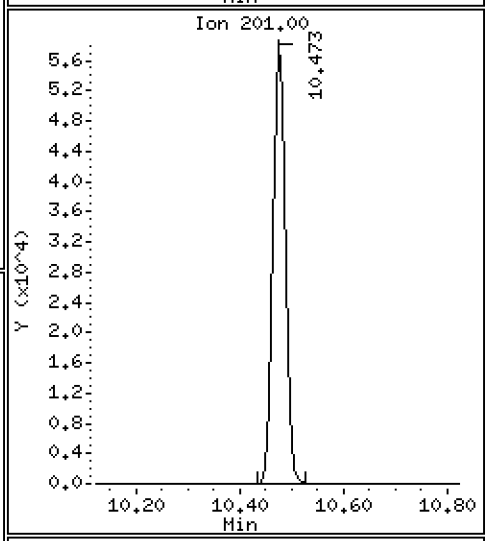


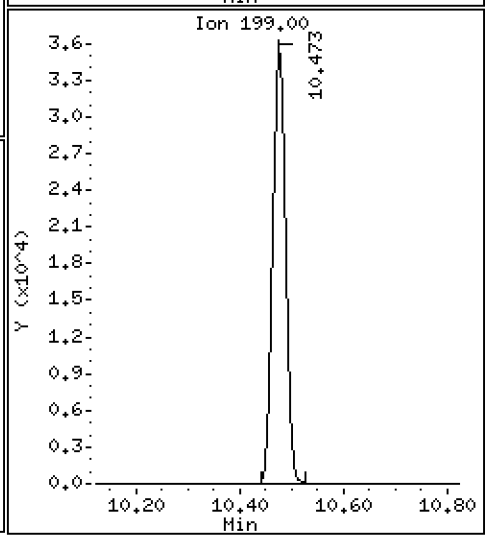












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

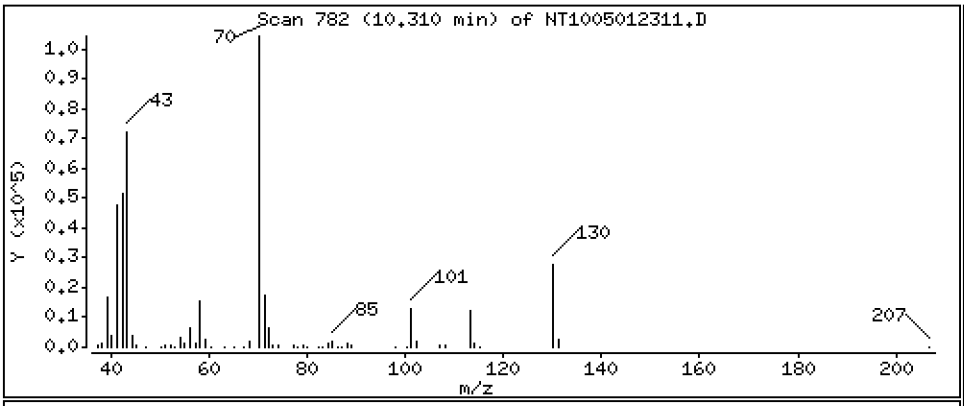
Operator: VTS

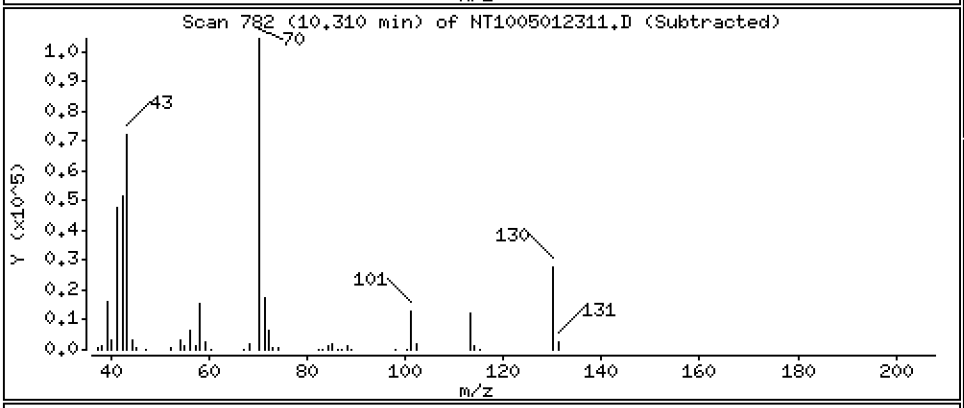
Column phase: ZB-5msi

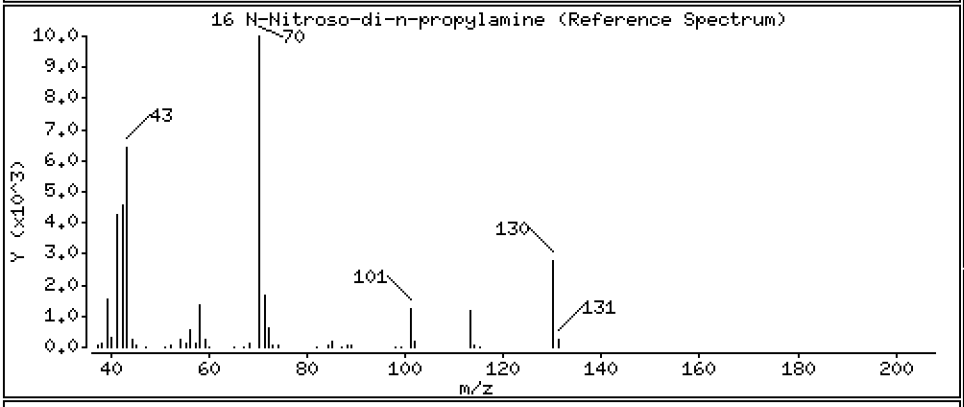
Column diameter: 0.25

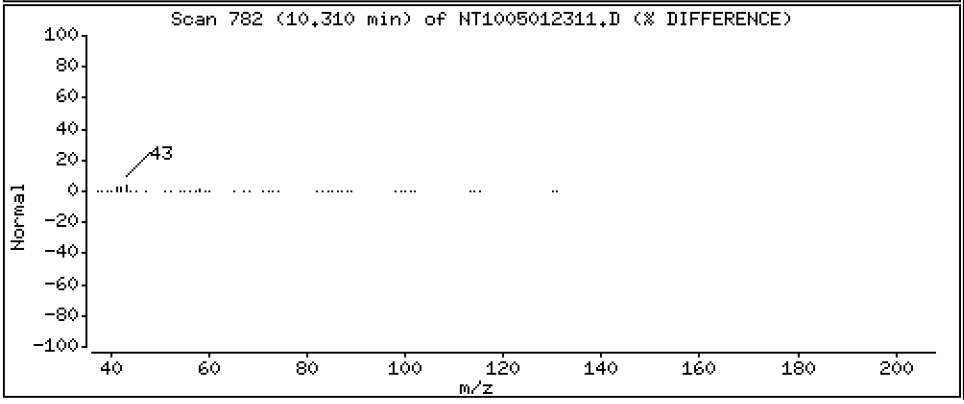
16 N-Nitroso-di-n-propylamine

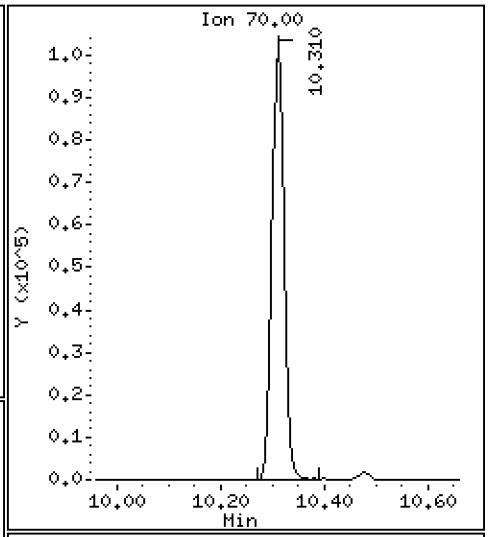
Concentration: 5.386 ug/mL

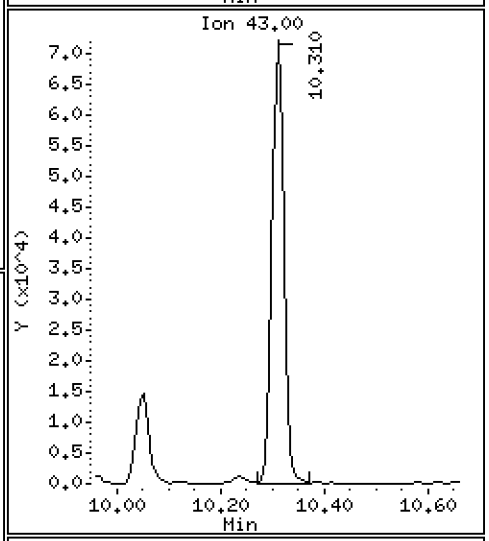


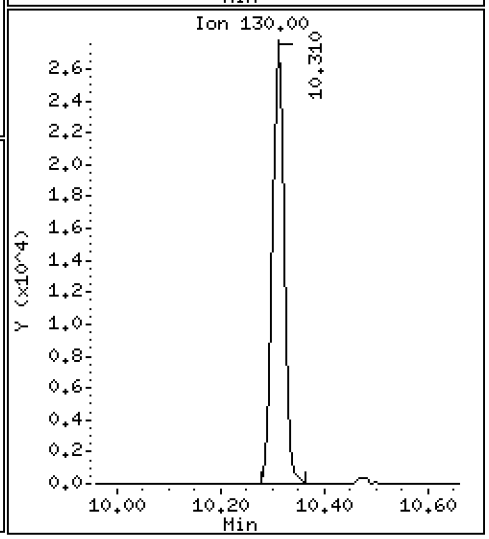












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

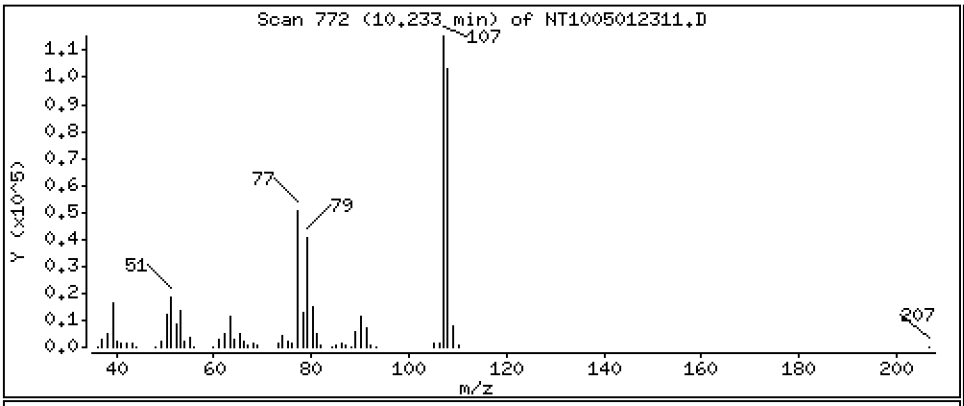
Operator: VTS

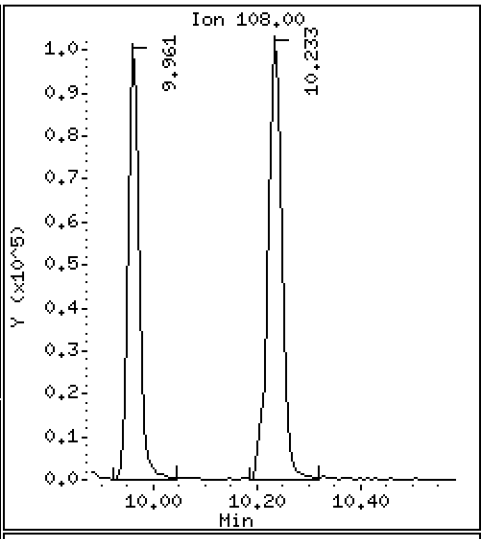
Column phase: ZB-5msi

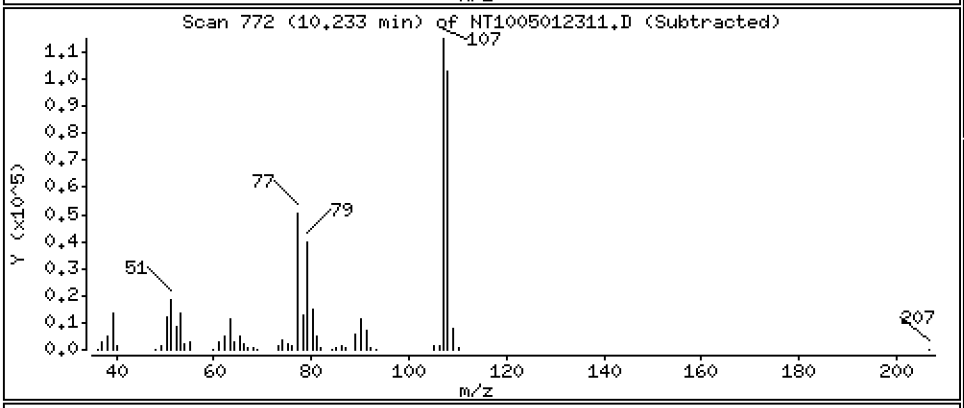
Column diameter: 0.25

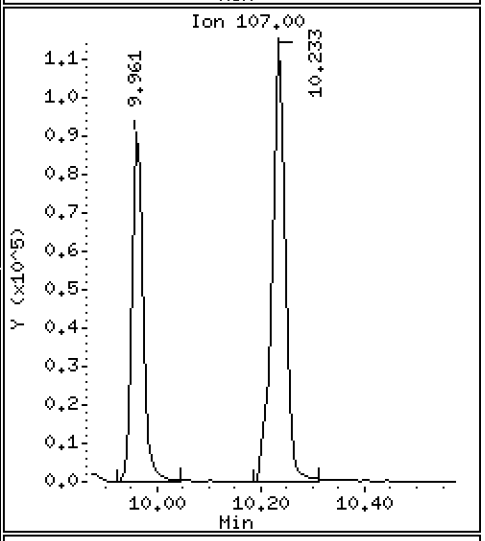
15 4-Methylphenol

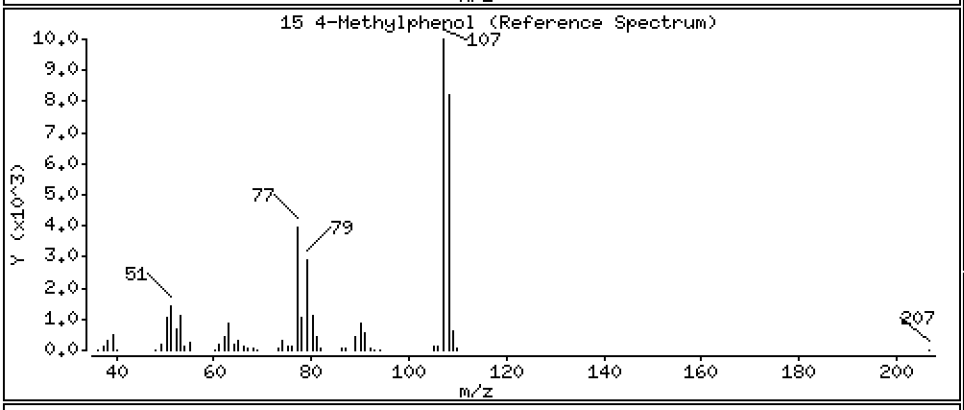
Concentration: 4.441 ug/mL

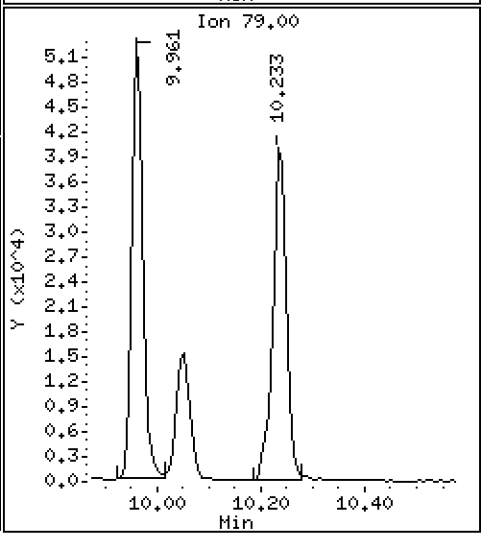


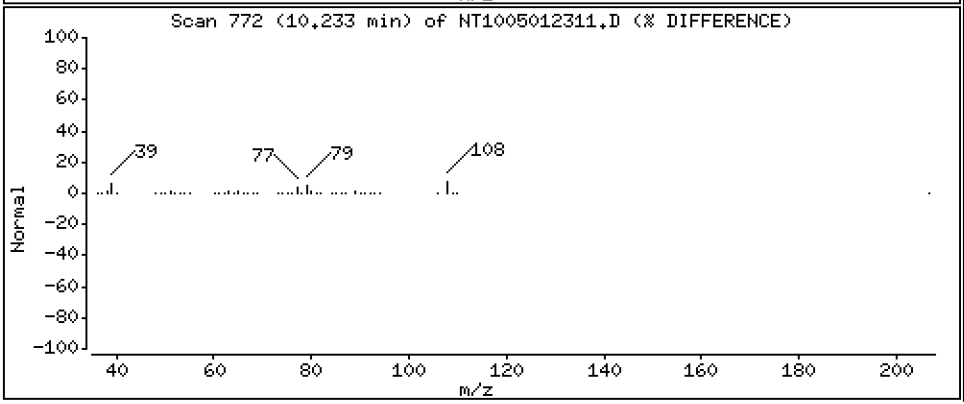












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

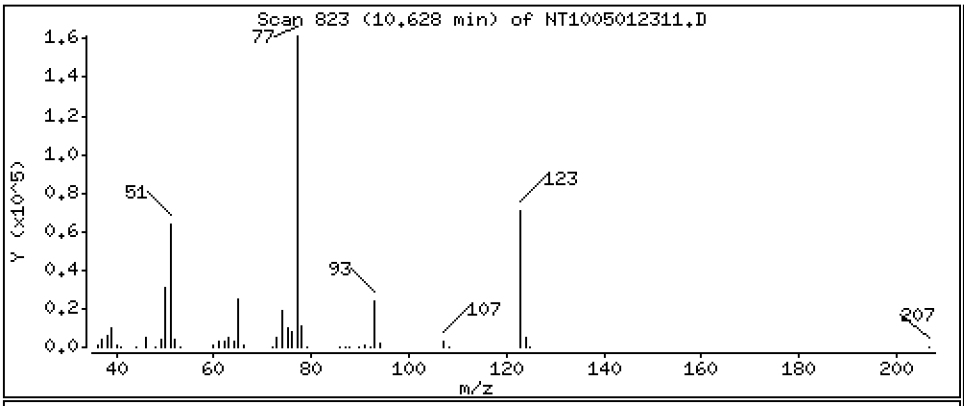
Operator: VTS

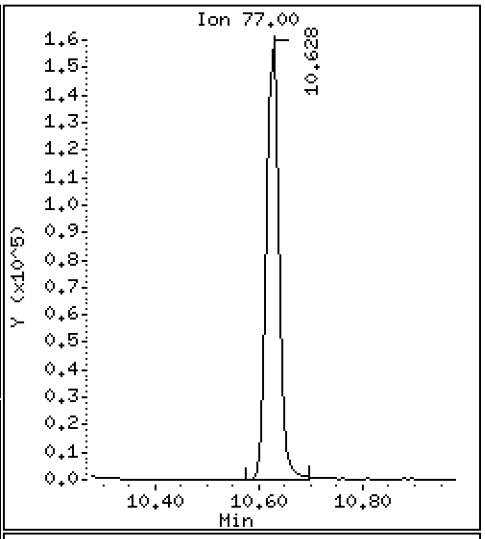
Column phase: ZB-5msi

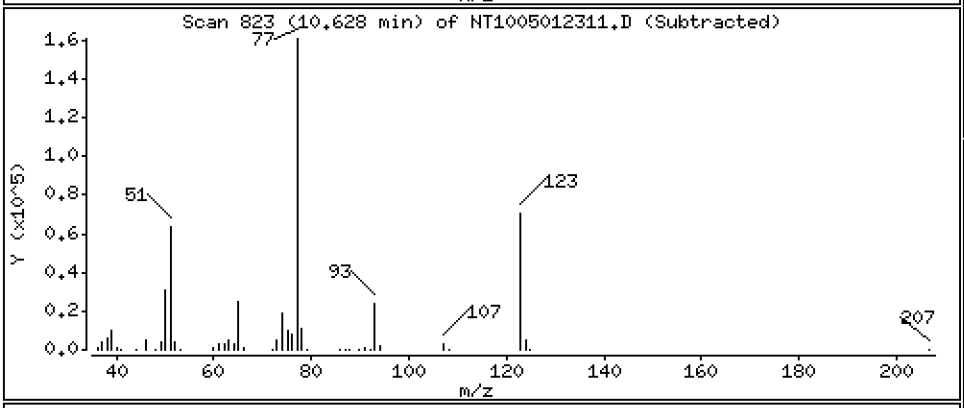
Column diameter: 0.25

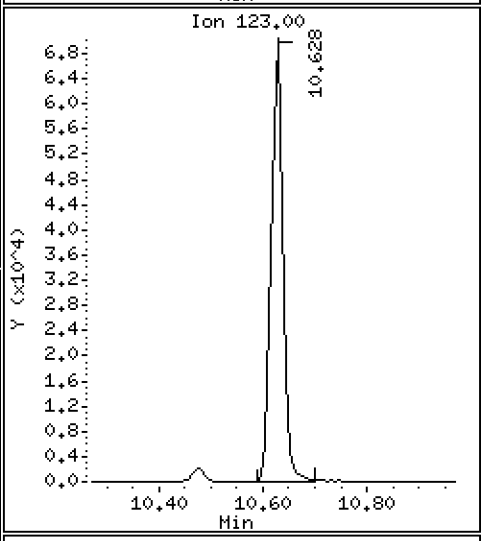
19 Nitrobenzene

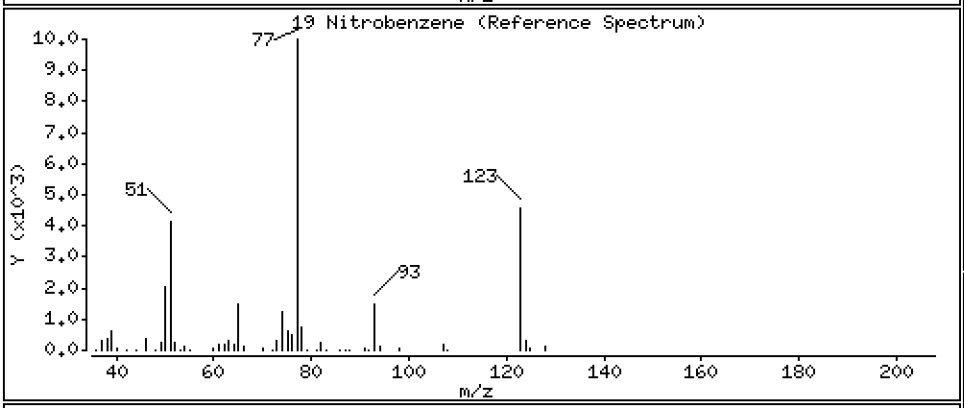
Concentration: 4.970 ug/mL

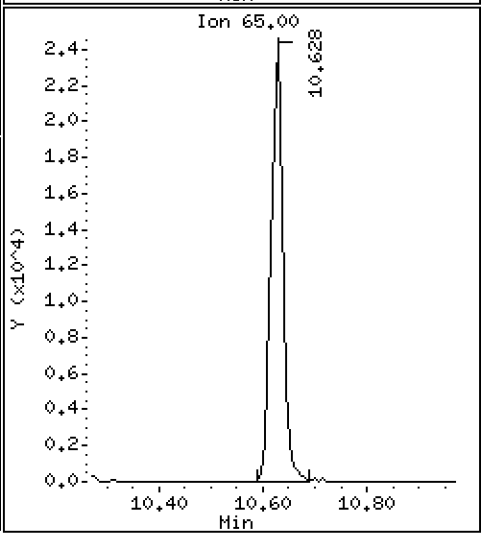


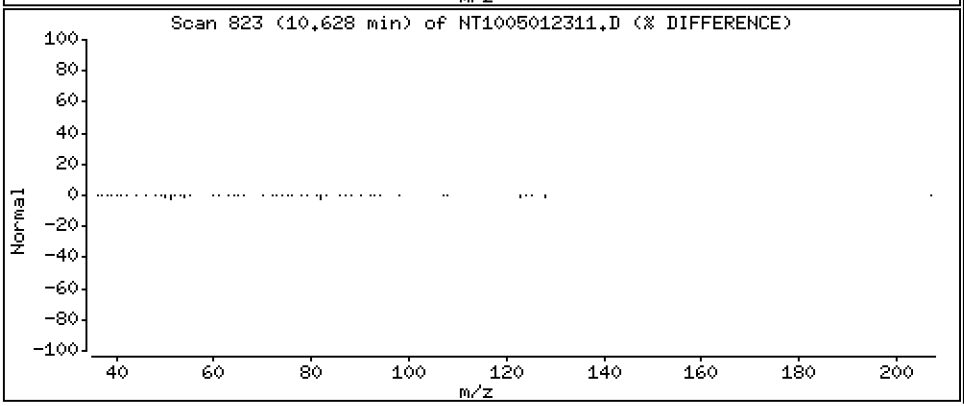












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

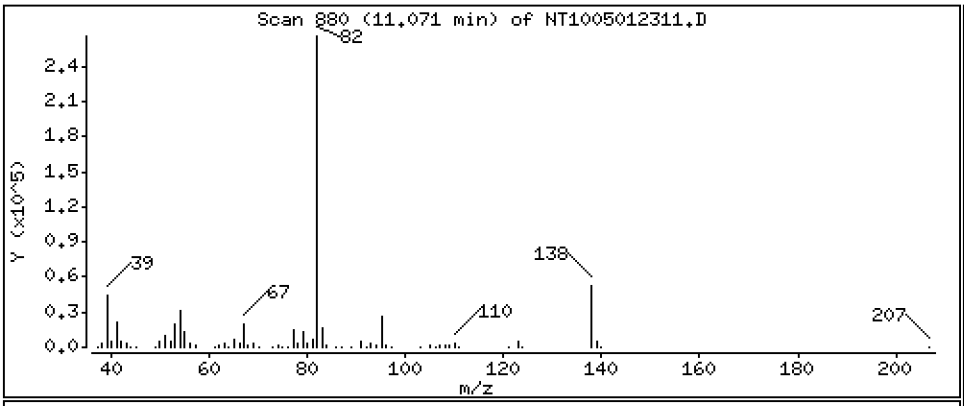
Operator: VTS

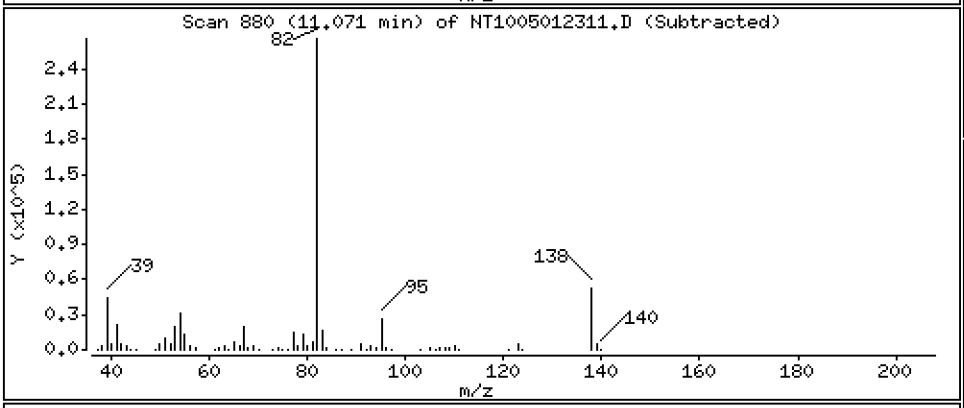
Column phase: ZB-5msi

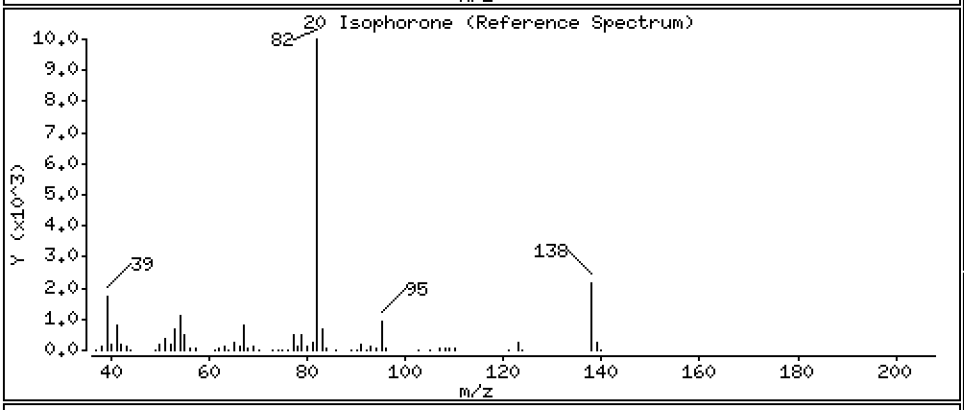
Column diameter: 0.25

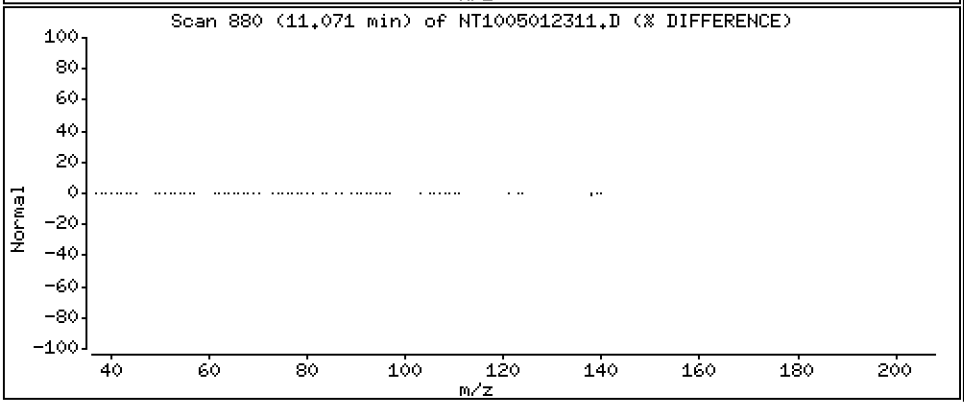
20 Isophorone

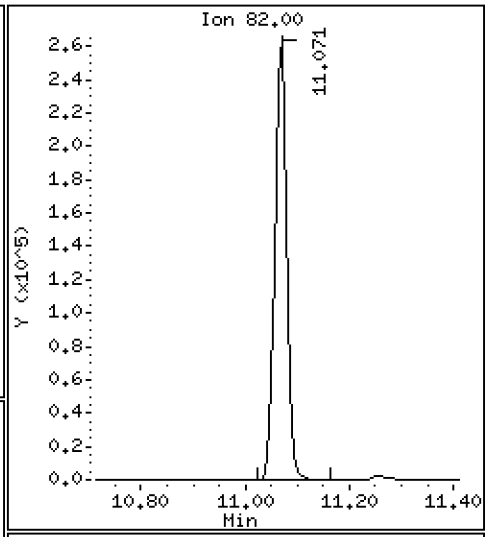
Concentration: 7.878 ug/mL

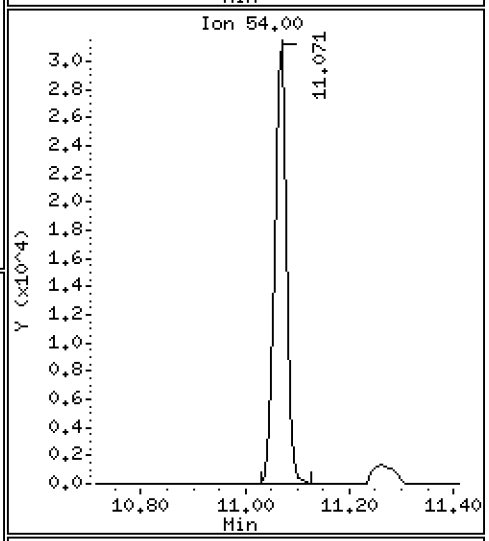


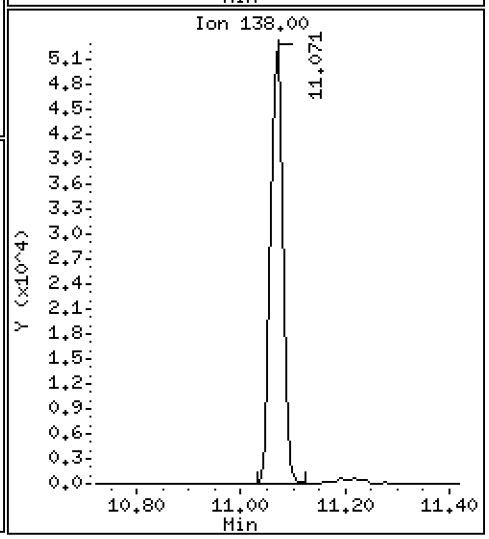












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

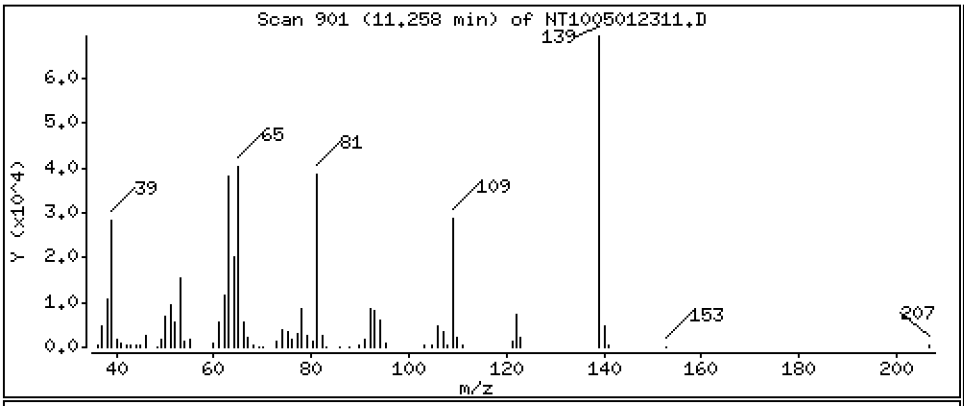
Operator: VTS

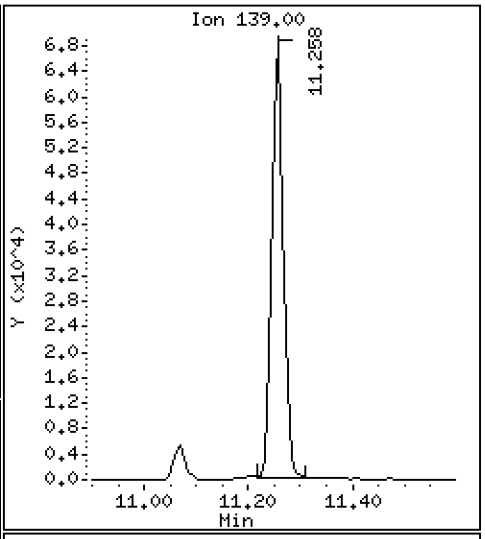
Column phase: ZB-5msi

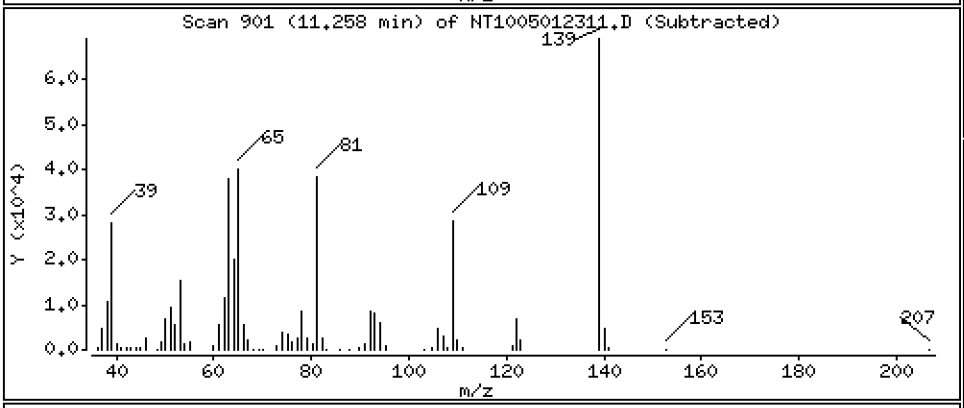
Column diameter: 0.25

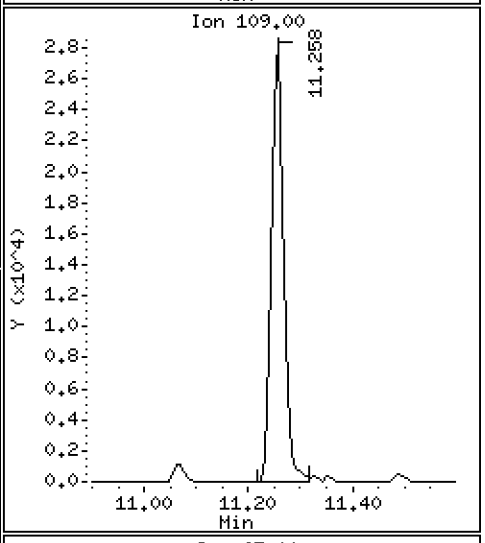
21 2-Nitrophenol

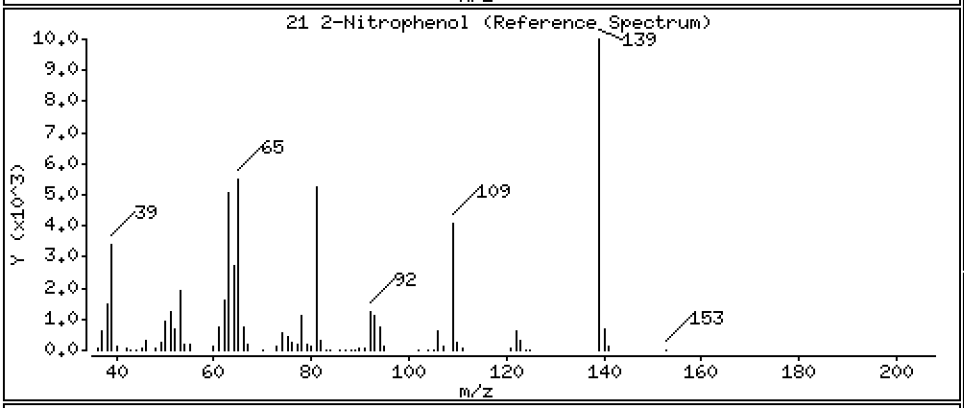
Concentration: 3.896 ug/mL

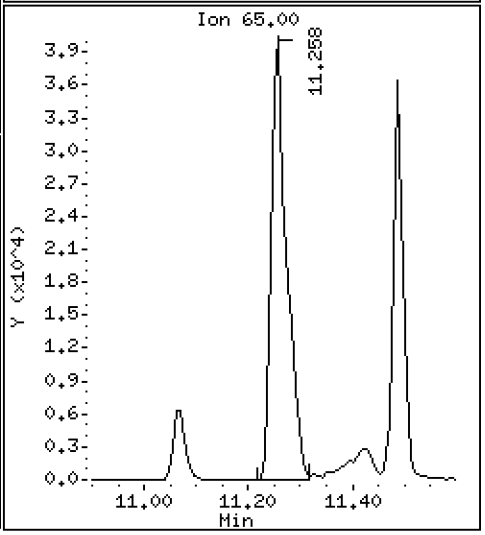


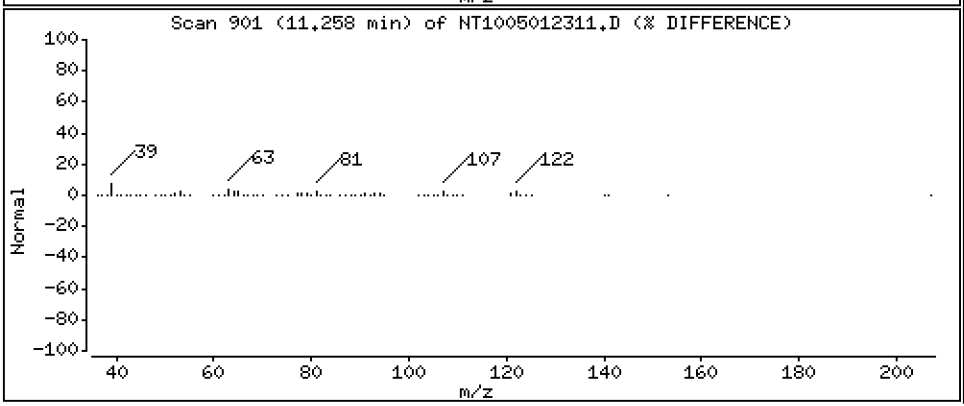












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

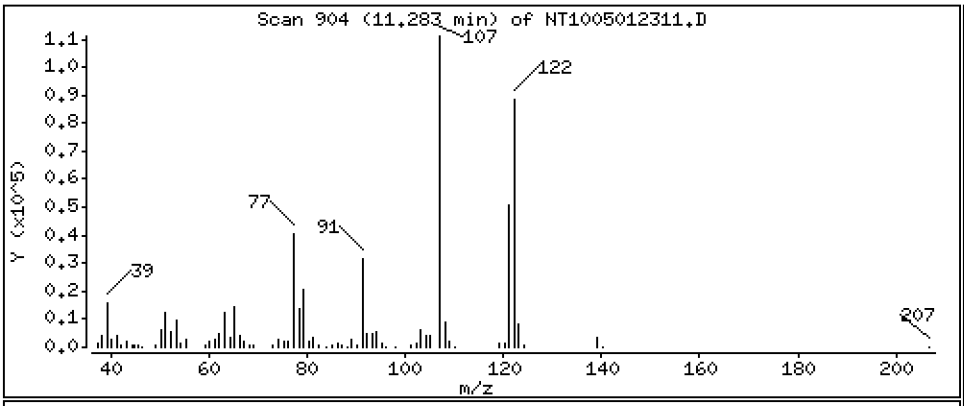
Operator: VTS

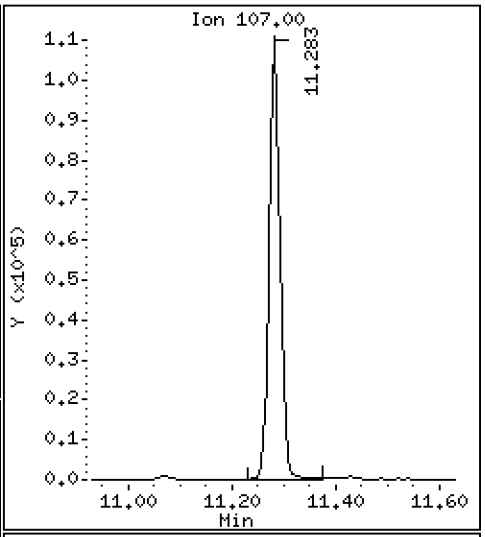
Column phase: ZB-5msi

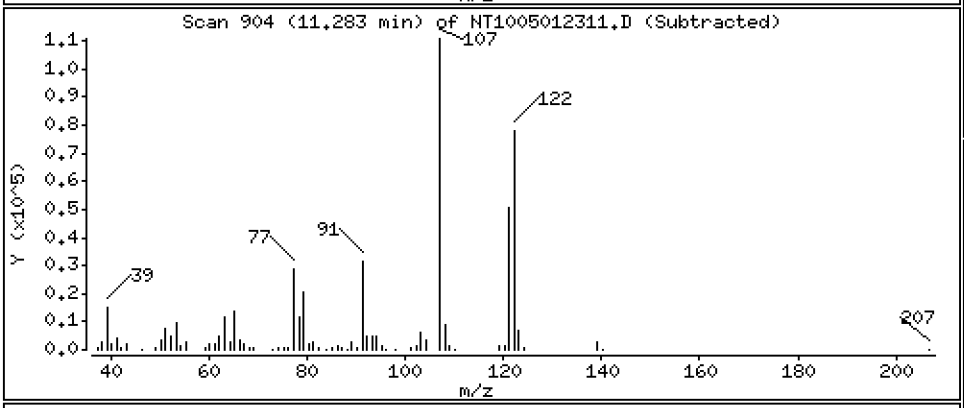
Column diameter: 0.25

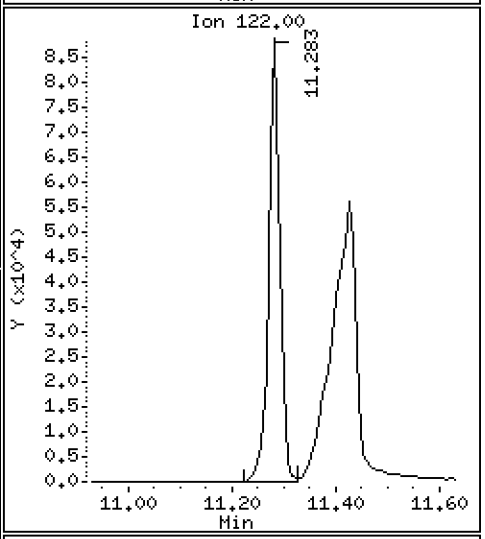
22 2,4-Dimethylphenol

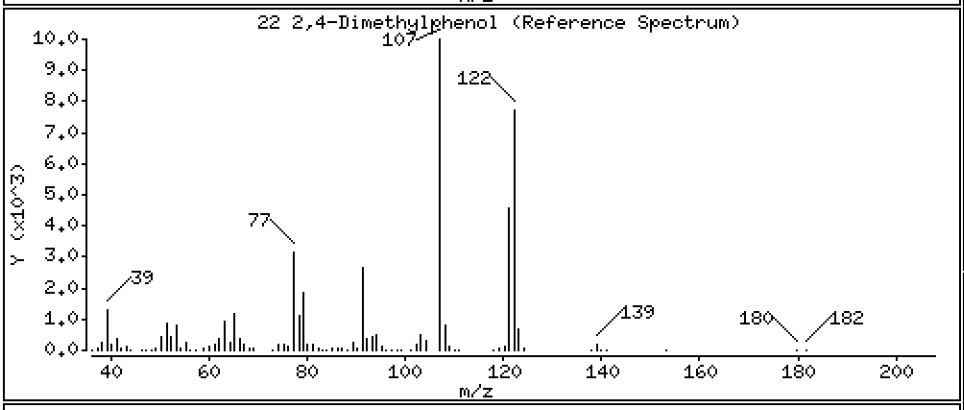
Concentration: 3.424 ug/mL

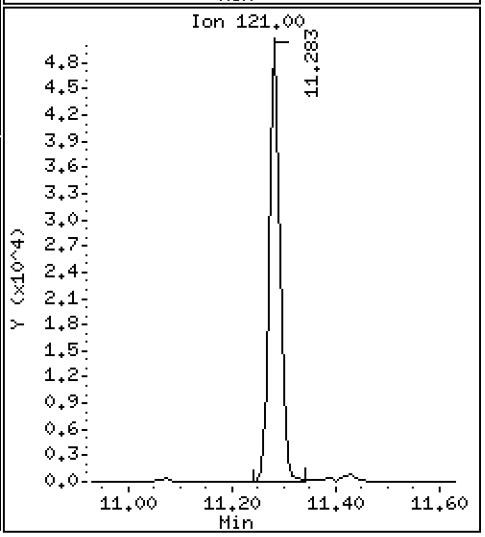


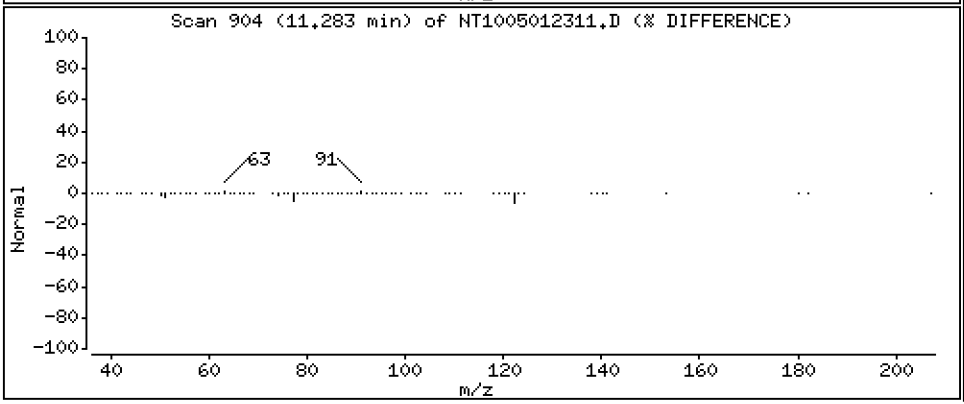












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

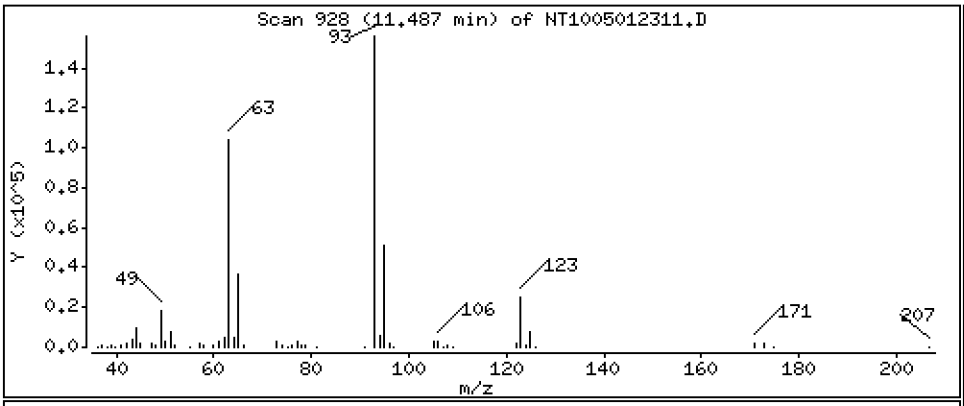
Operator: VTS

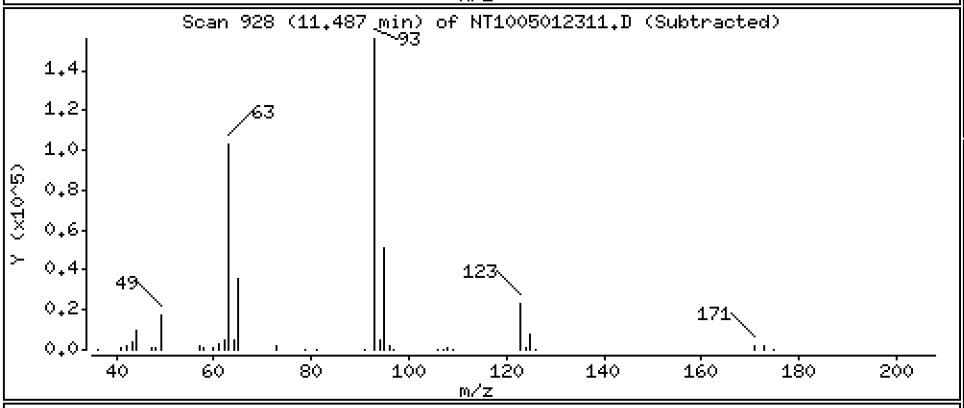
Column phase: ZB-5msi

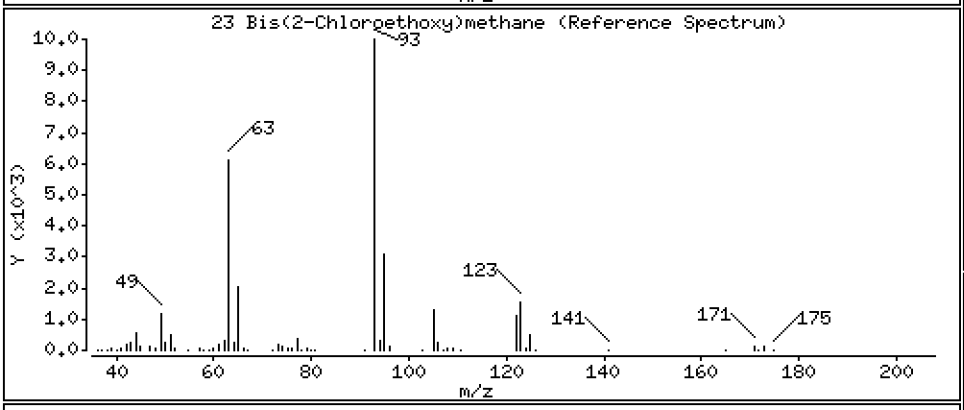
Column diameter: 0.25

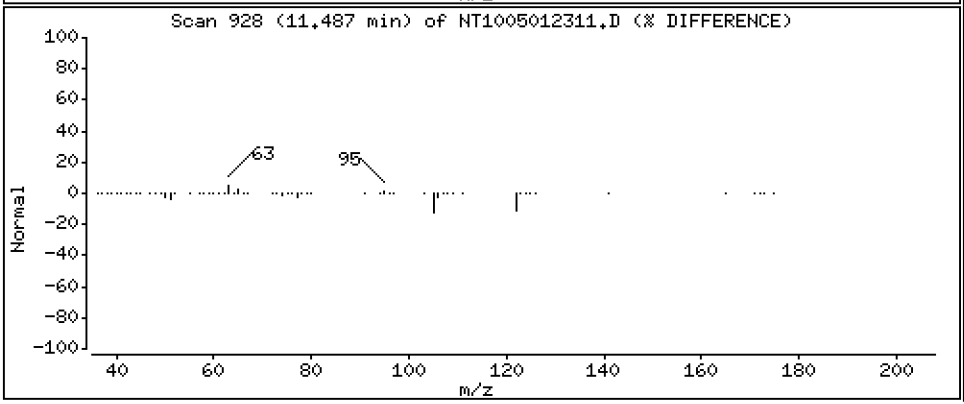
23 Bis(2-Chloroethoxy)methane

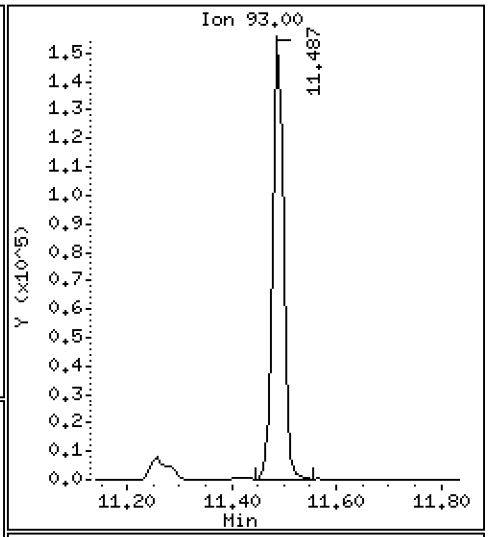
Concentration: 5.736 ug/mL

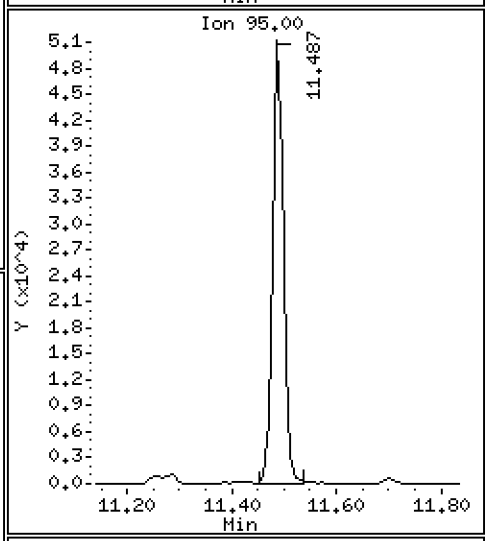


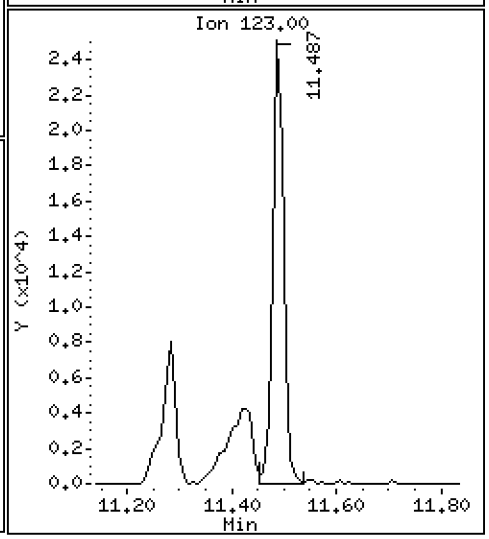












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

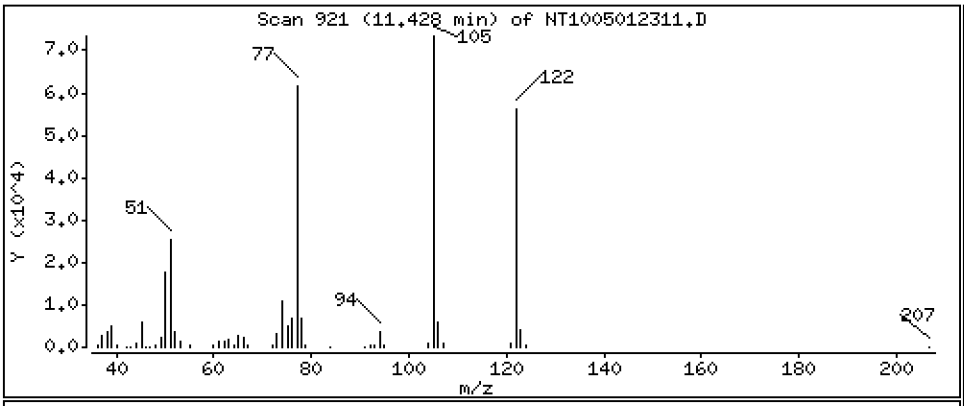
Operator: VTS

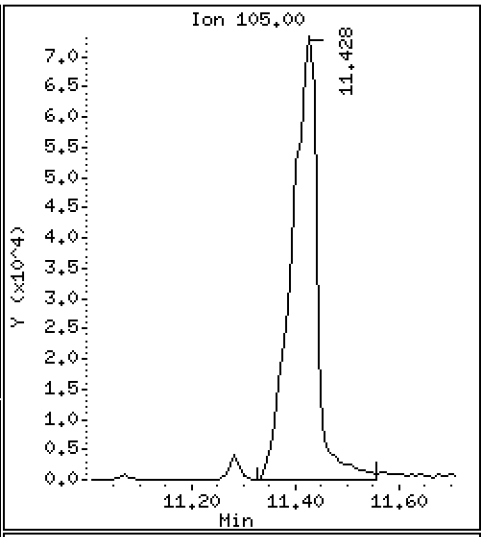
Column phase: ZB-5msi

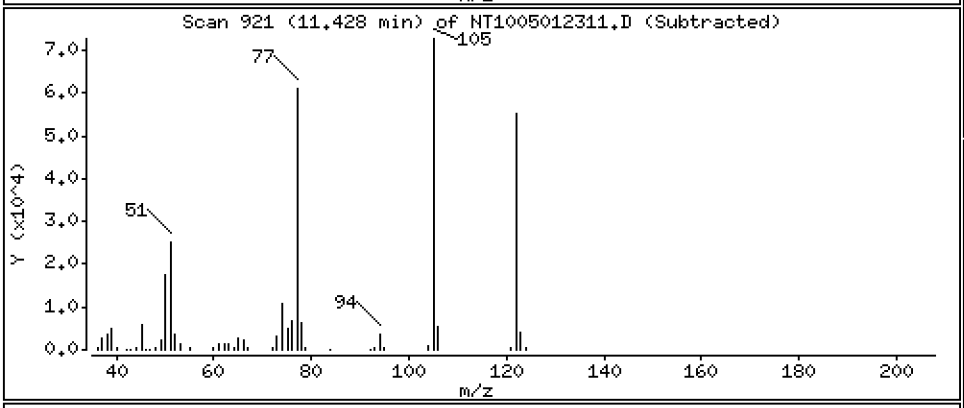
Column diameter: 0.25

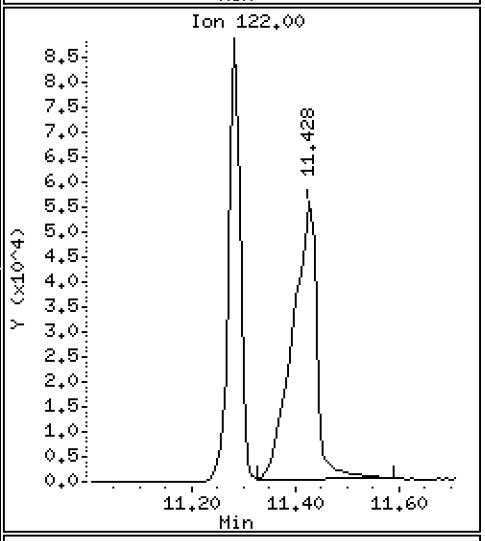
24 Benzoic acid

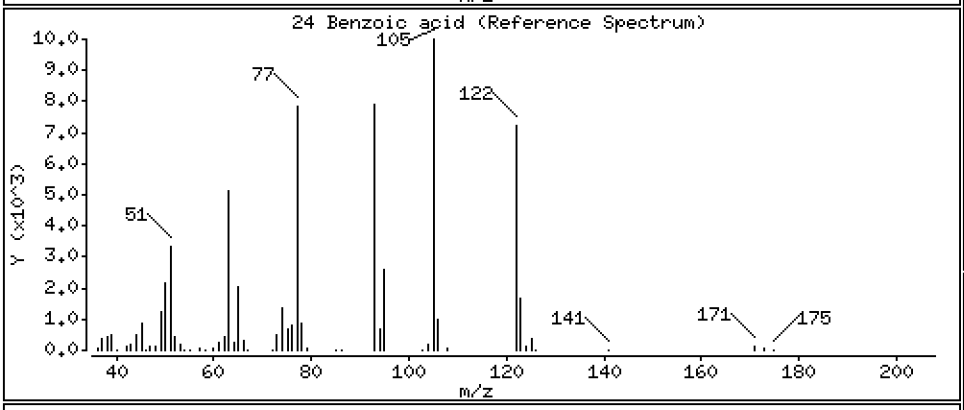
Concentration: 7.386 ug/mL

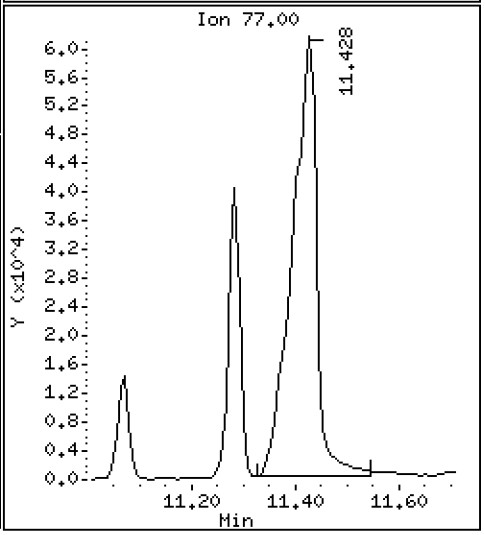


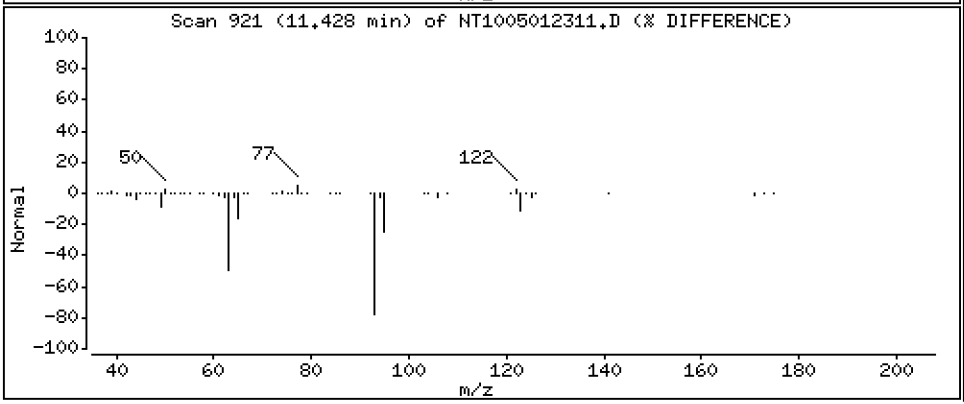












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

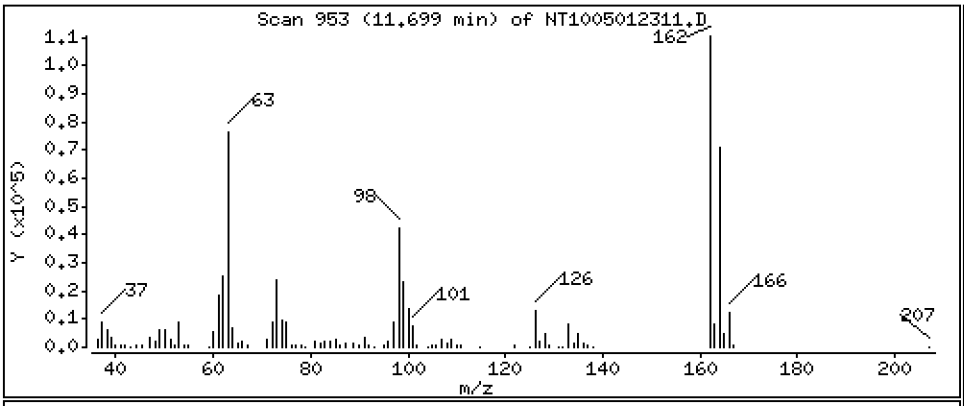
Operator: VTS

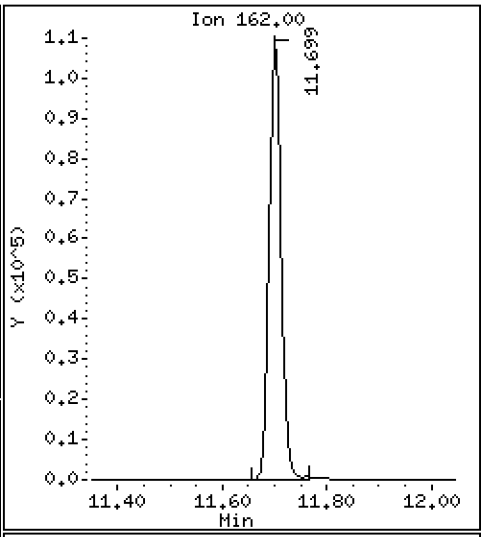
Column phase: ZB-5msi

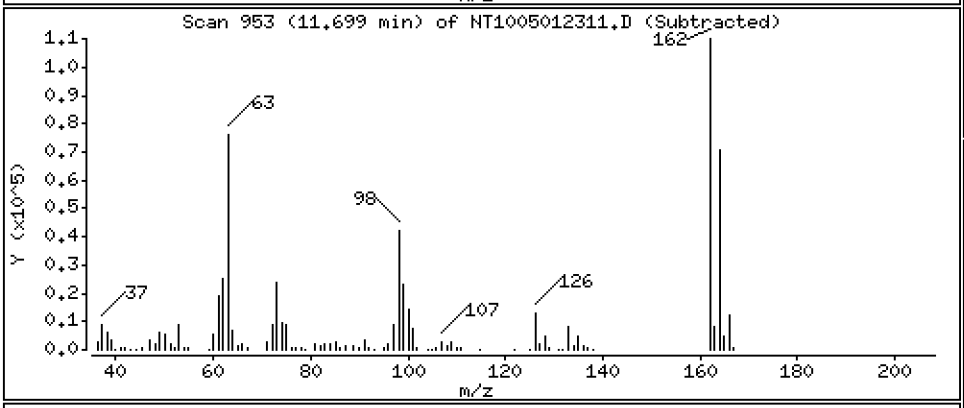
Column diameter: 0.25

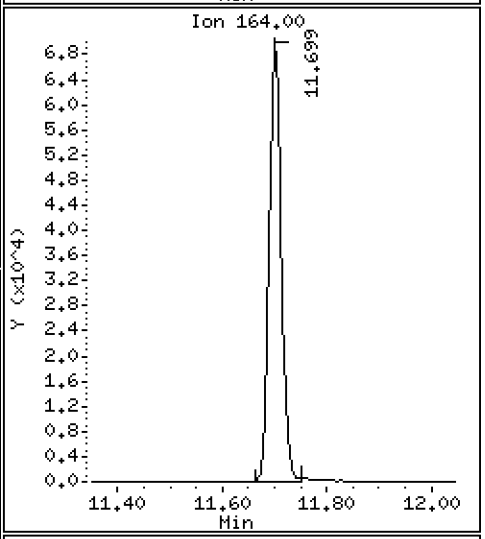
25 2,4-Dichlorophenol

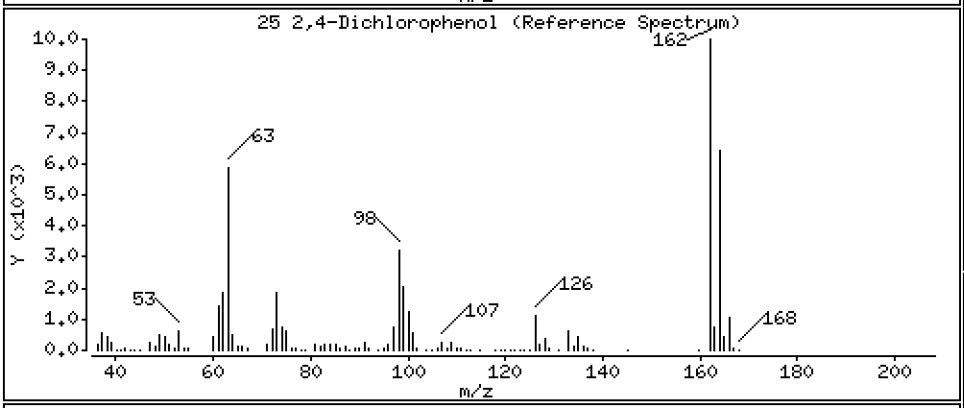
Concentration: 4.480 ug/mL

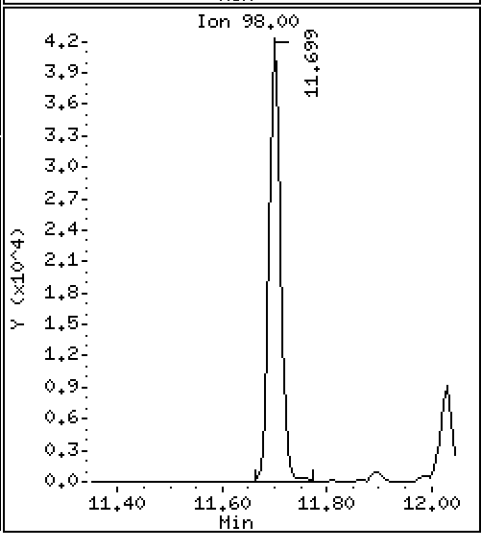


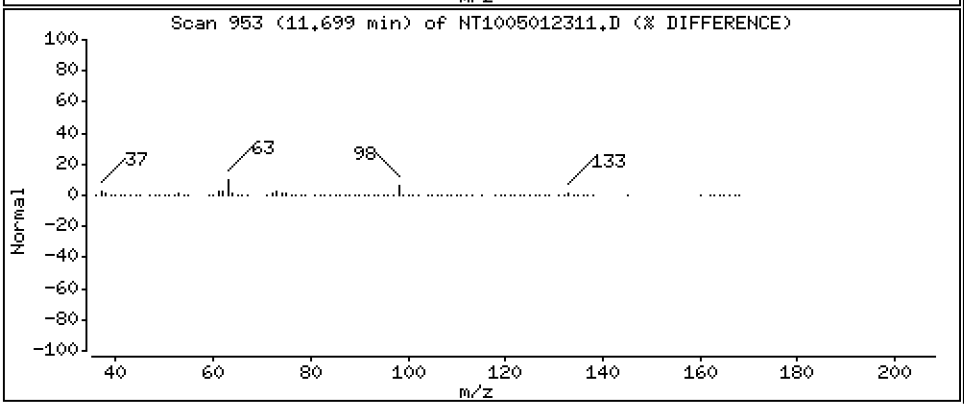












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

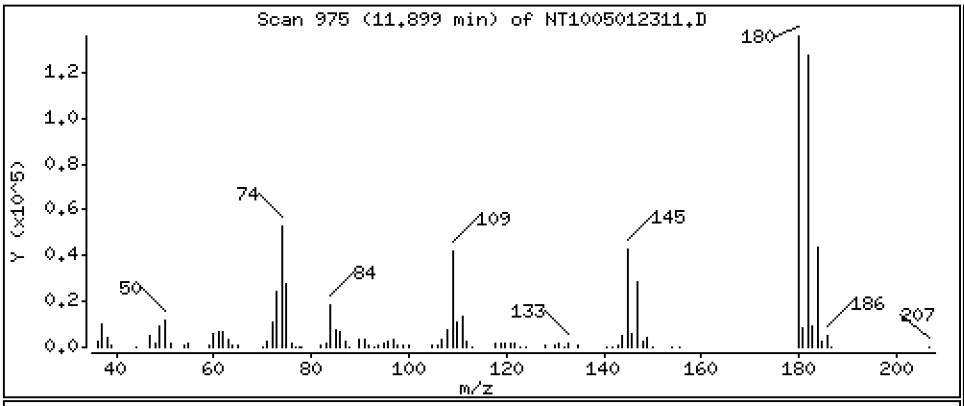
Operator: VTS

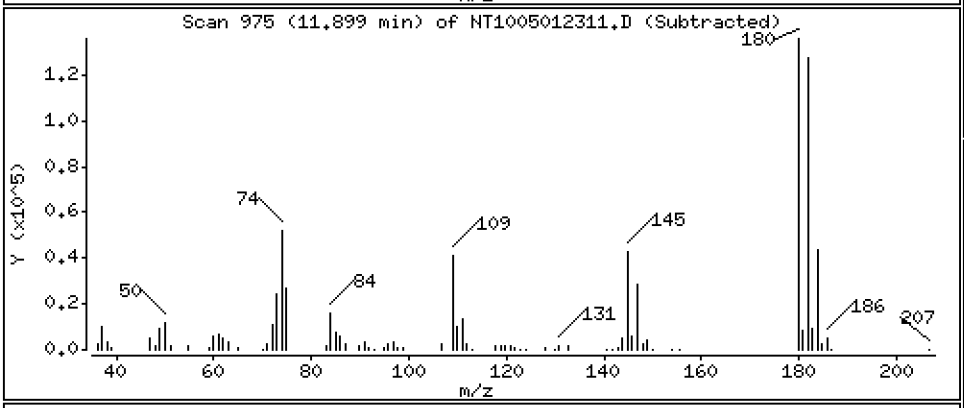
Column phase: ZB-5msi

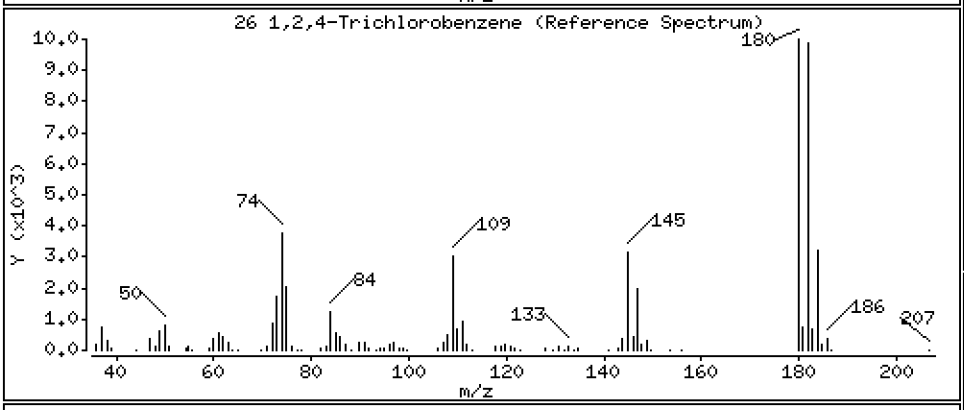
Column diameter: 0.25

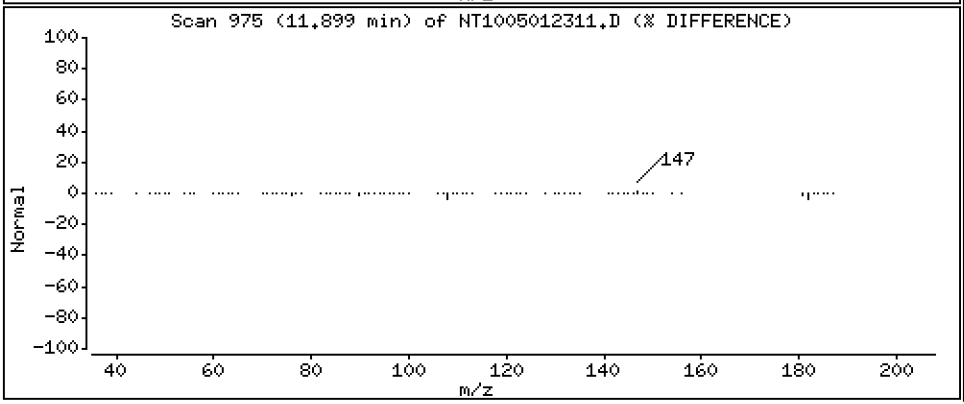
26 1,2,4-Trichlorobenzene

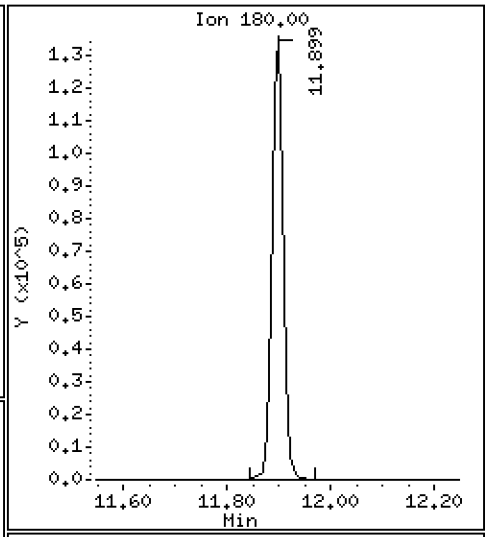
Concentration: 4.378 ug/mL

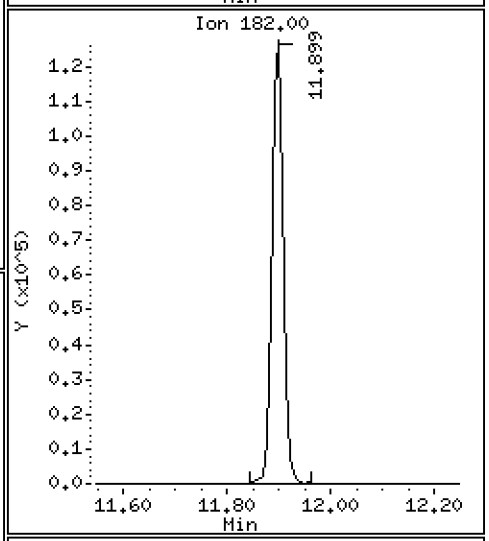


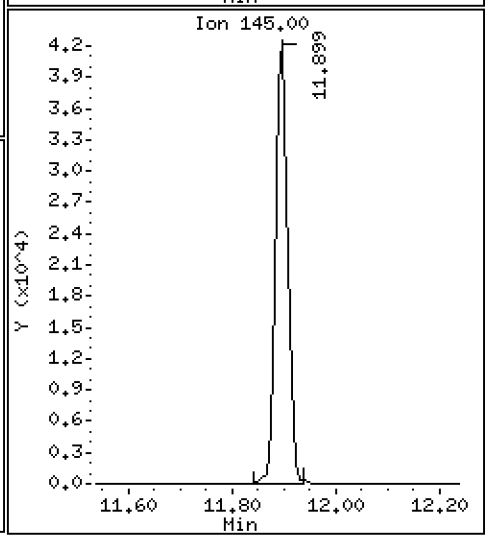












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

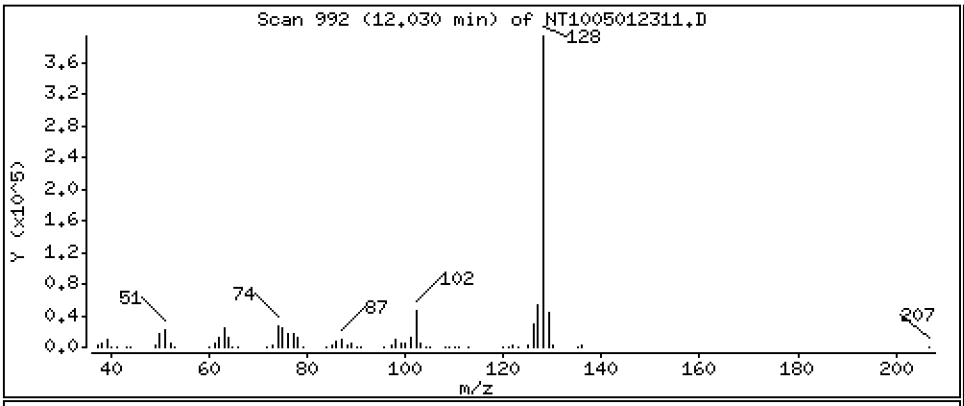
Operator: VTS

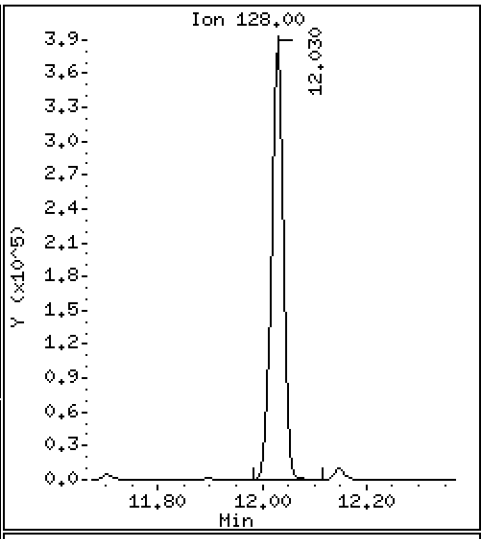
Column phase: ZB-5msi

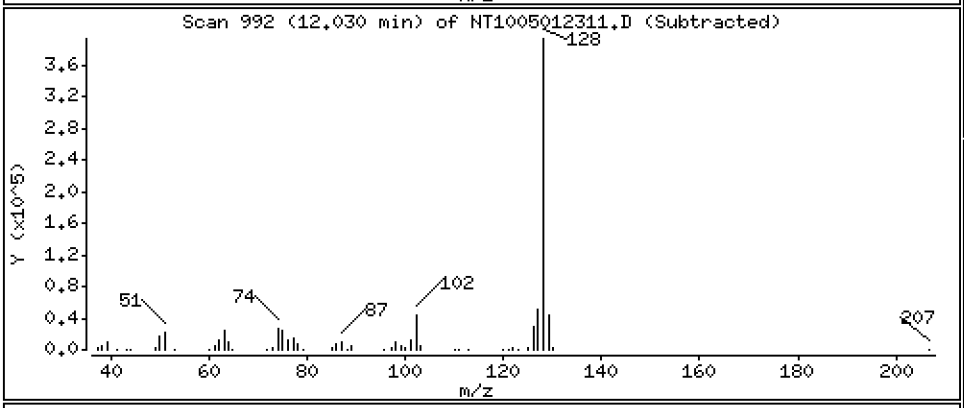
Column diameter: 0.25

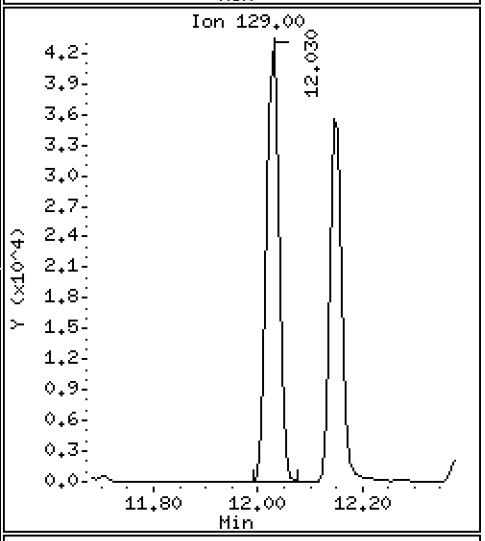
28 Naphthalene

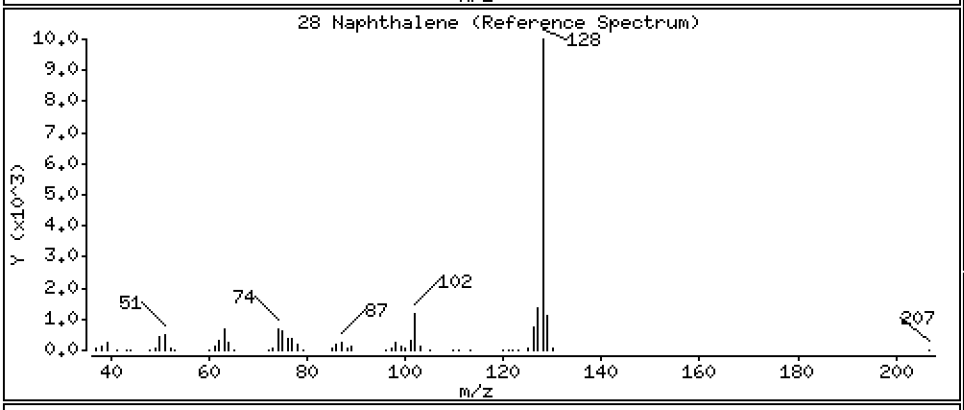
Concentration: 4.742 ug/mL

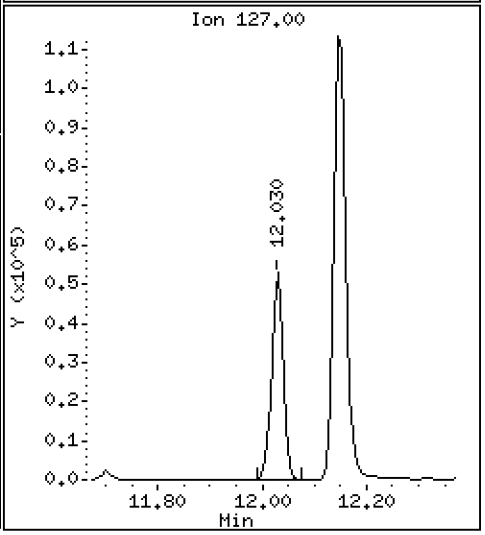


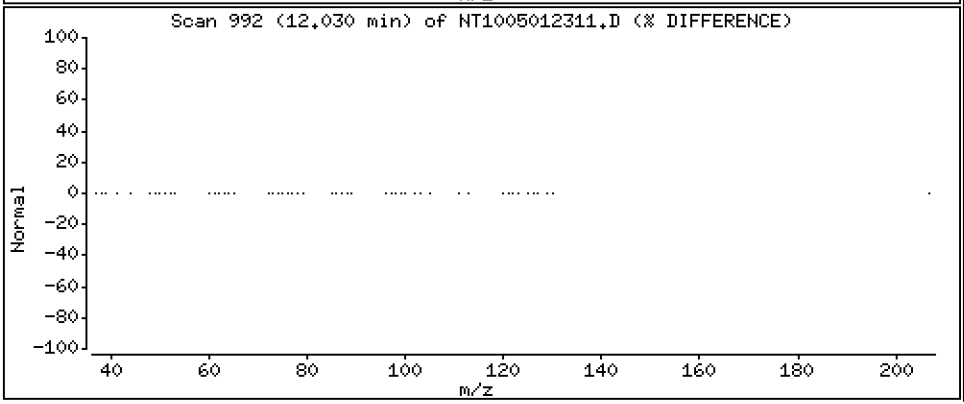












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

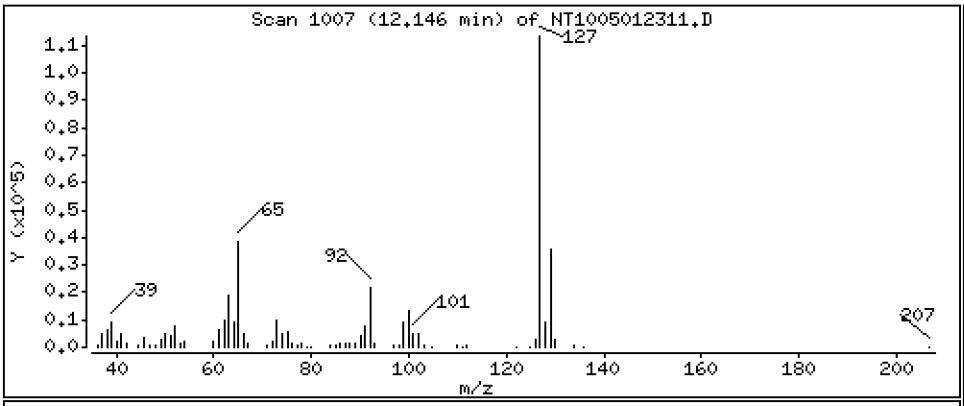
Operator: VTS

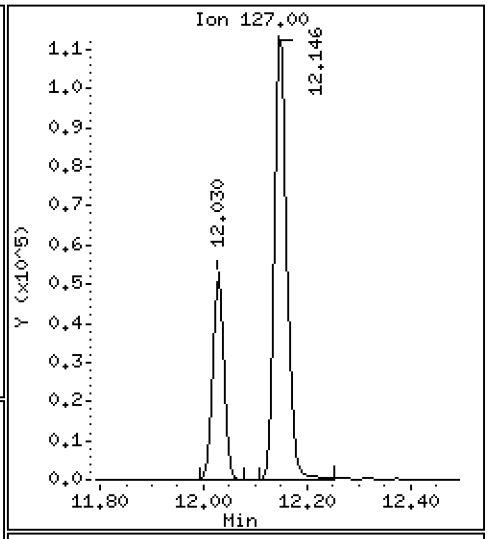
Column phase: ZB-5msi

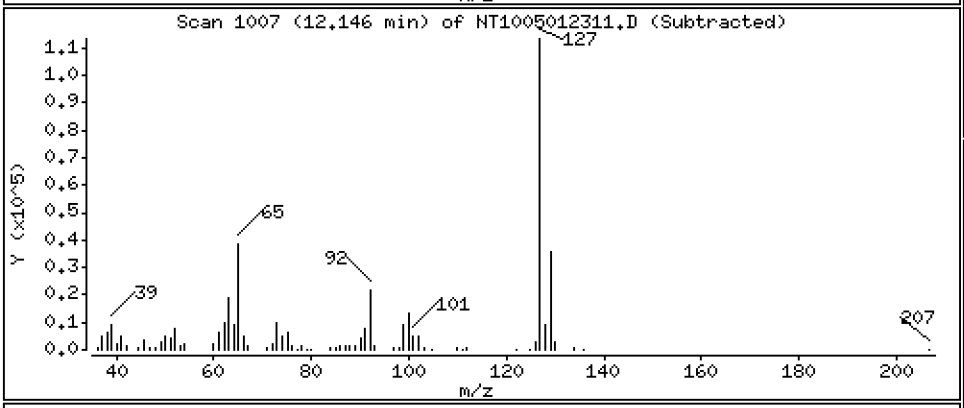
Column diameter: 0.25

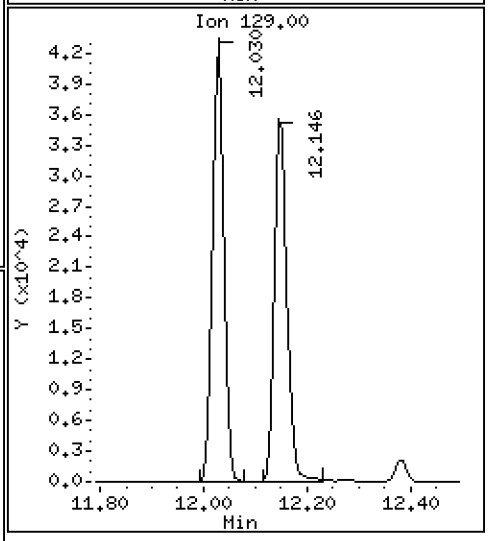
29 4-Chloroaniline

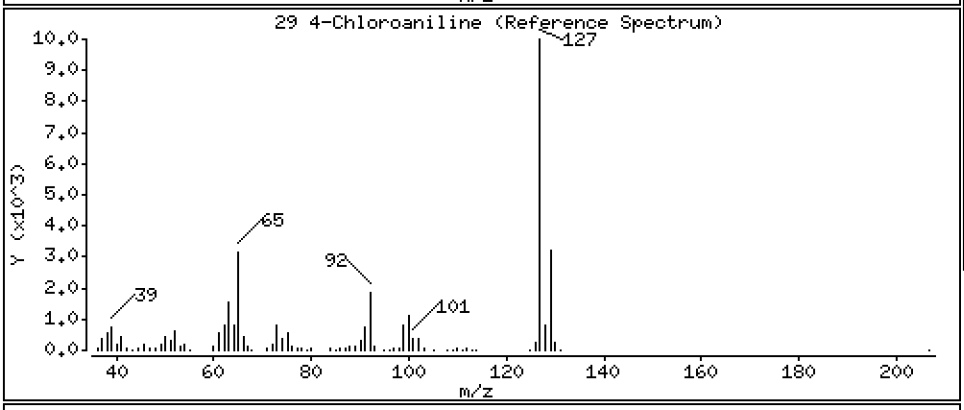
Concentration: 3.956 ug/mL

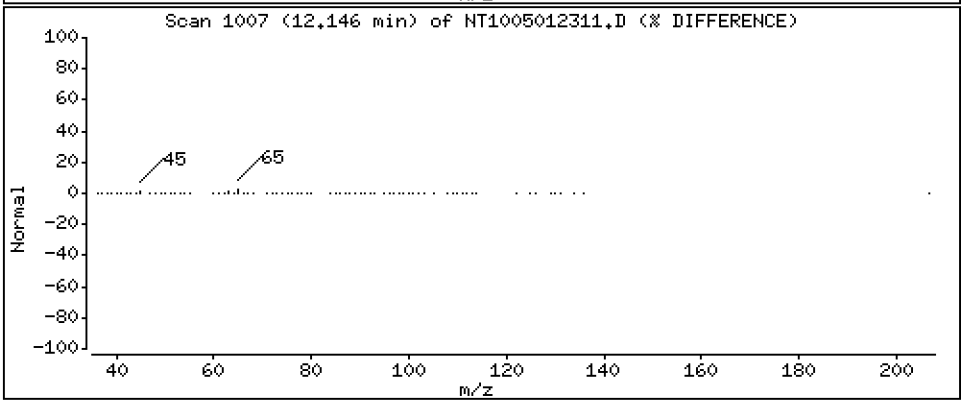












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

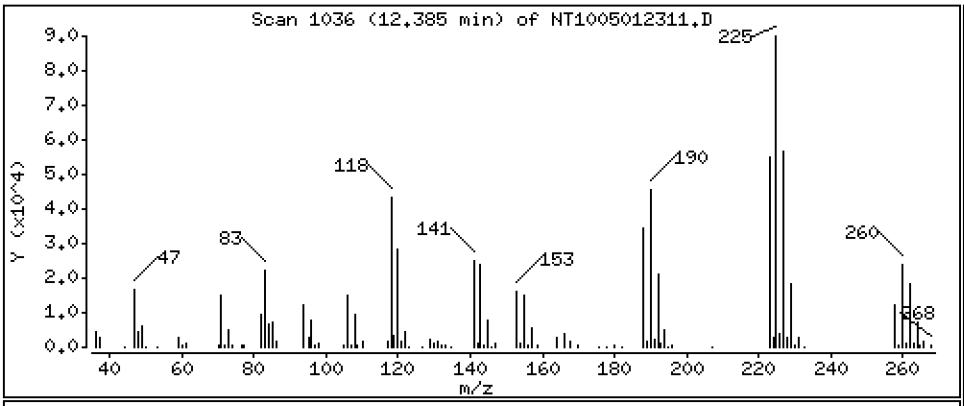
Operator: VTS

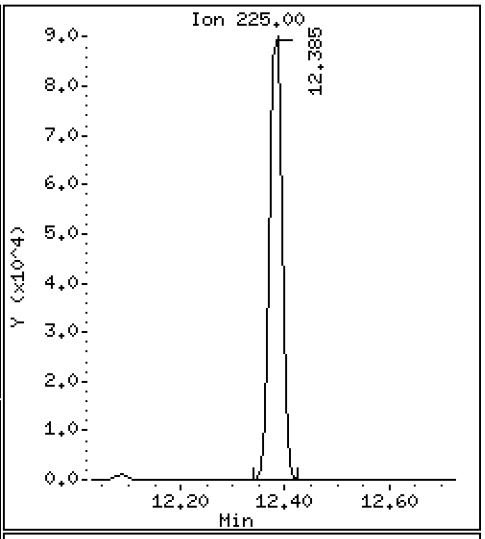
Column phase: ZB-5msi

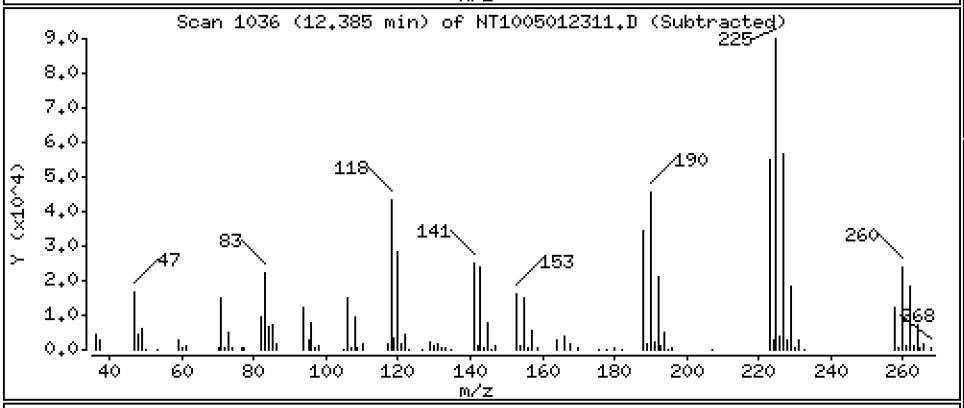
Column diameter: 0.25

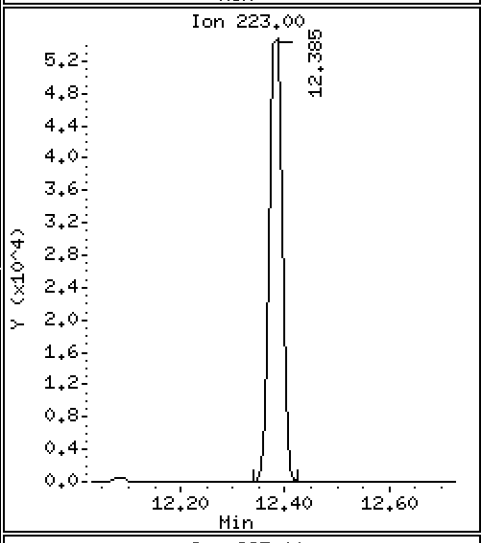
30 Hexachlorobutadiene

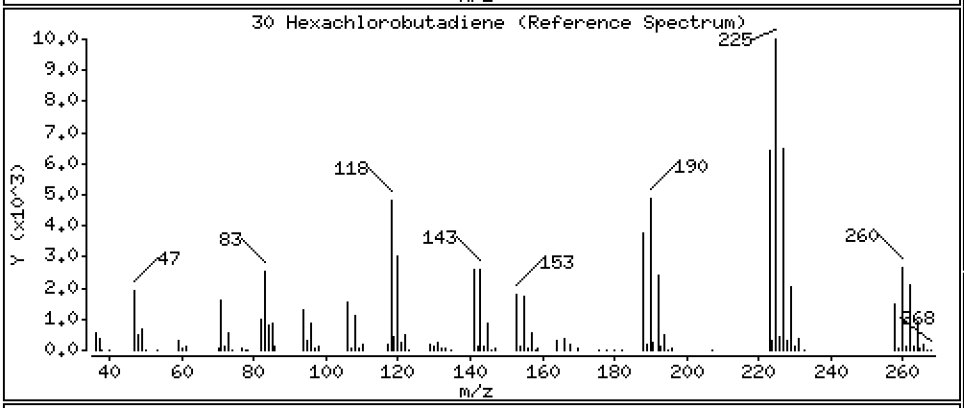
Concentration: 4.626 ug/mL

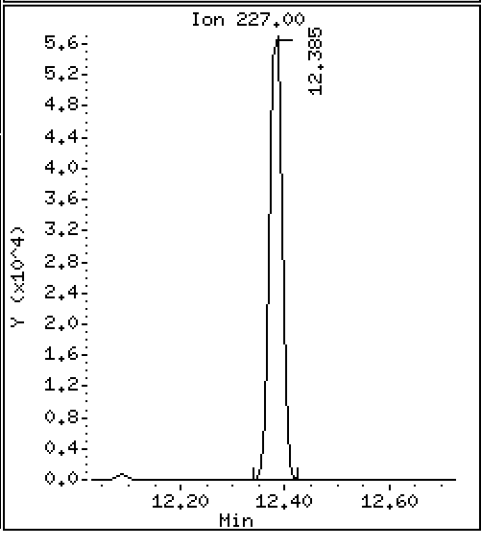


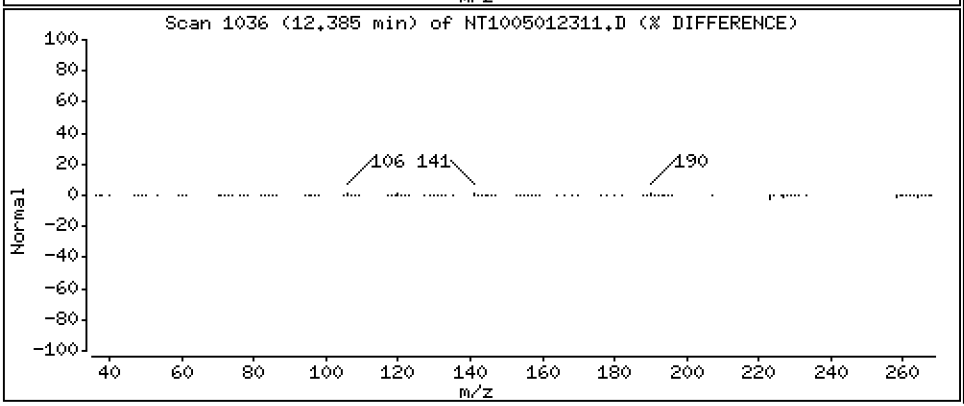












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

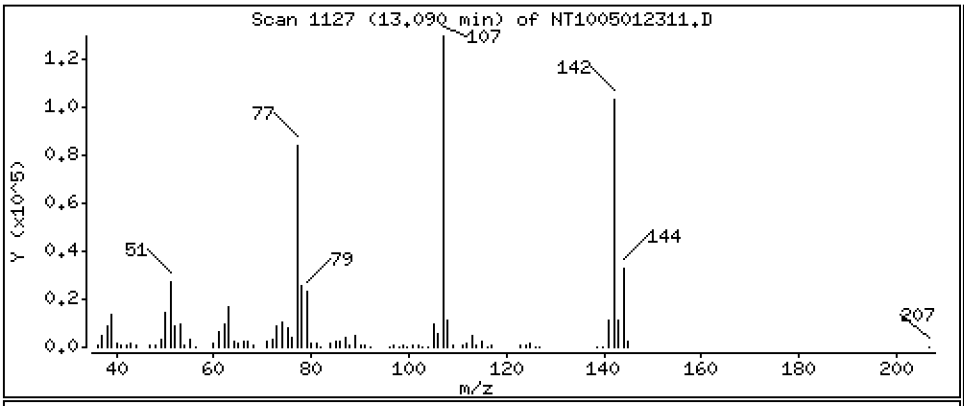
Operator: VTS

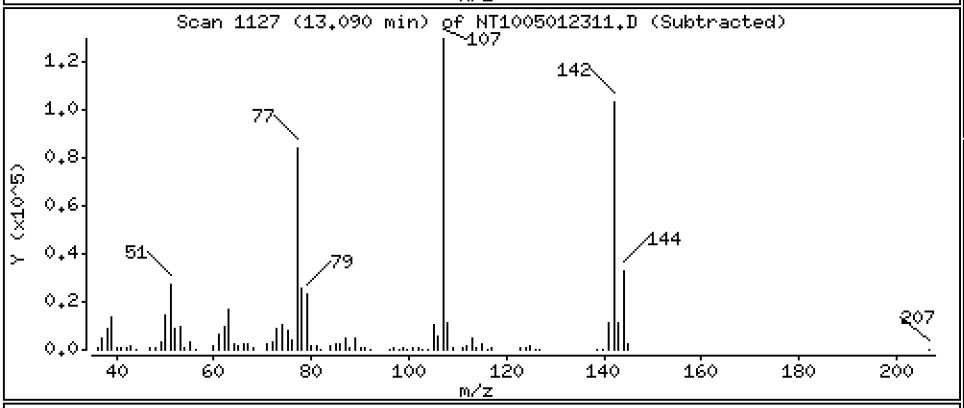
Column phase: ZB-5msi

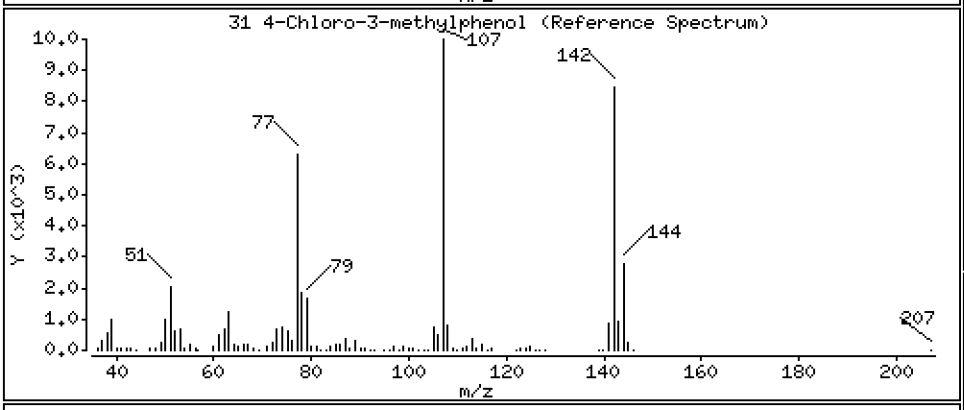
Column diameter: 0.25

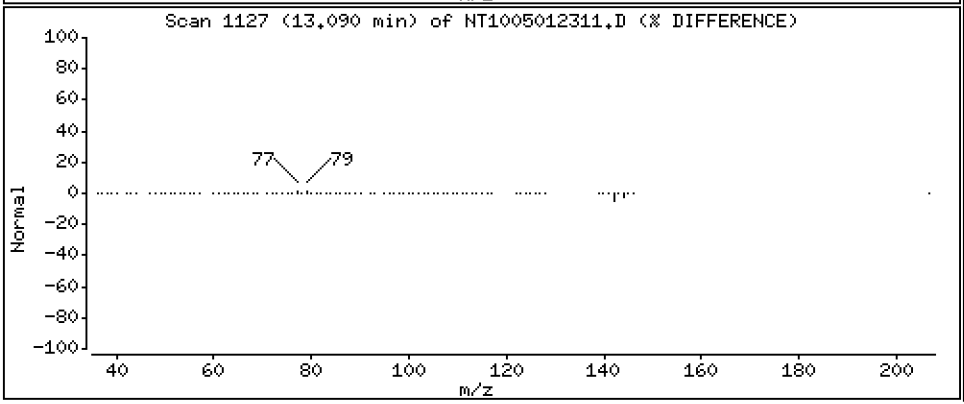
31 4-Chloro-3-methylphenol

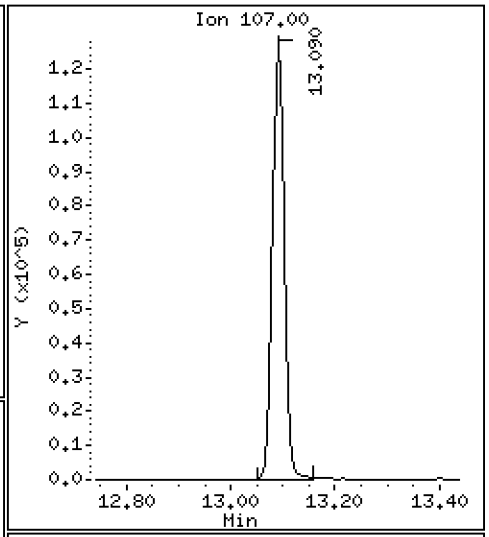
Concentration: 4.460 ug/mL

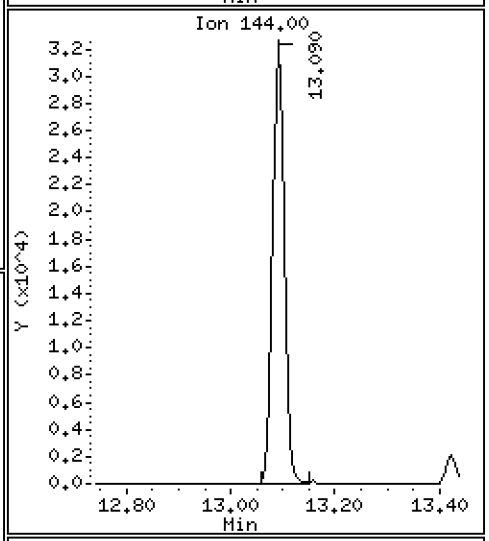


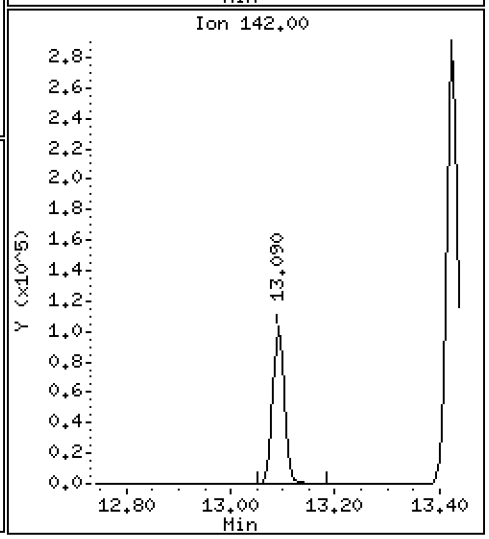












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

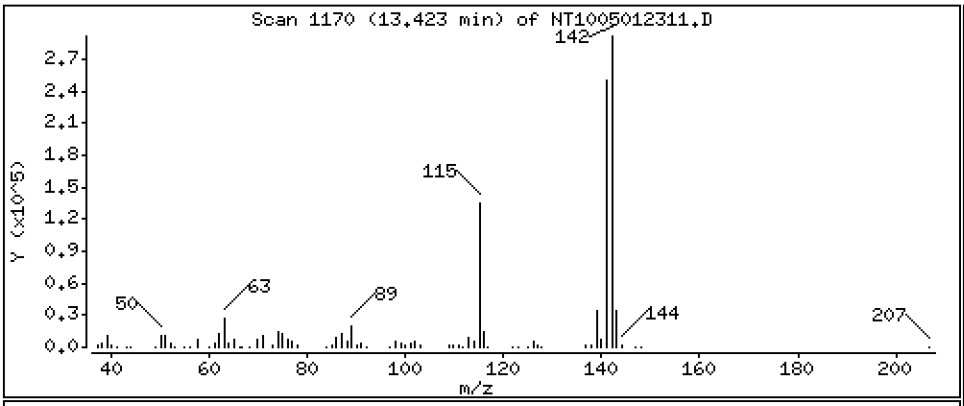
Operator: VTS

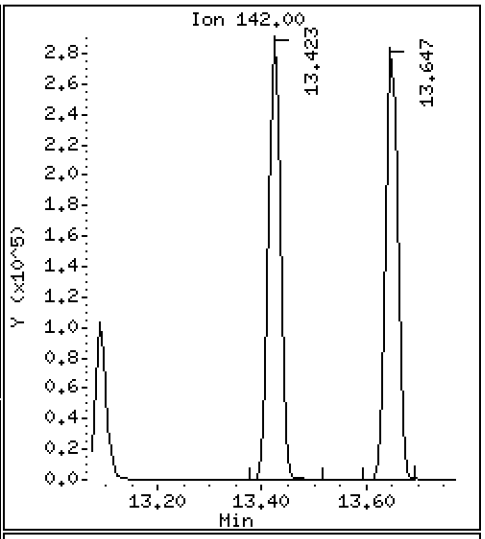
Column phase: ZB-5msi

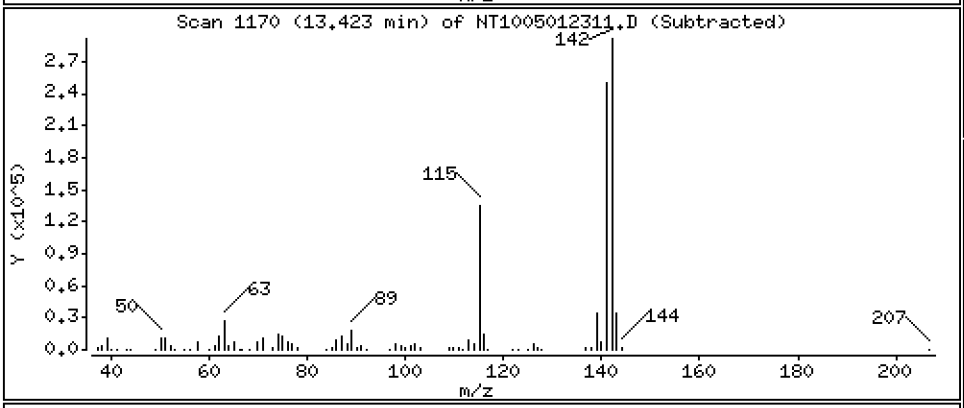
Column diameter: 0.25

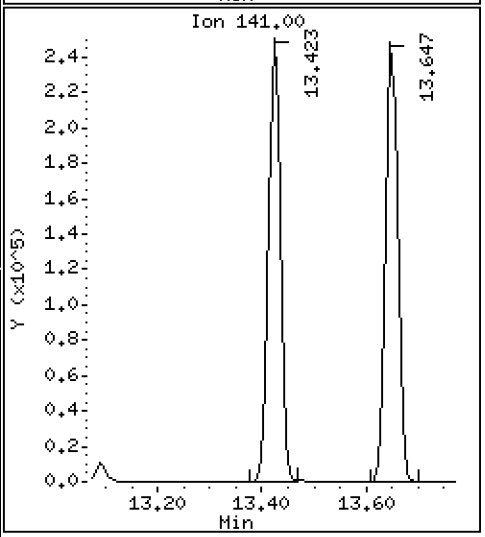
32 2-Methylnaphthalene

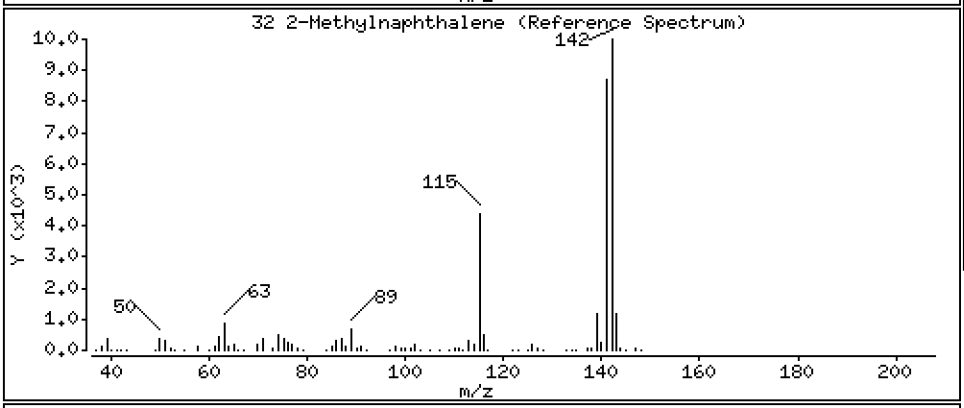
Concentration: 4.513 ug/mL

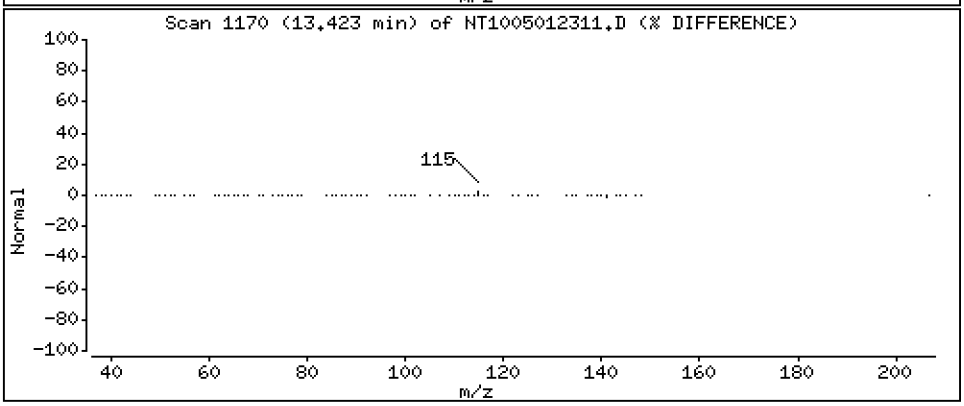












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

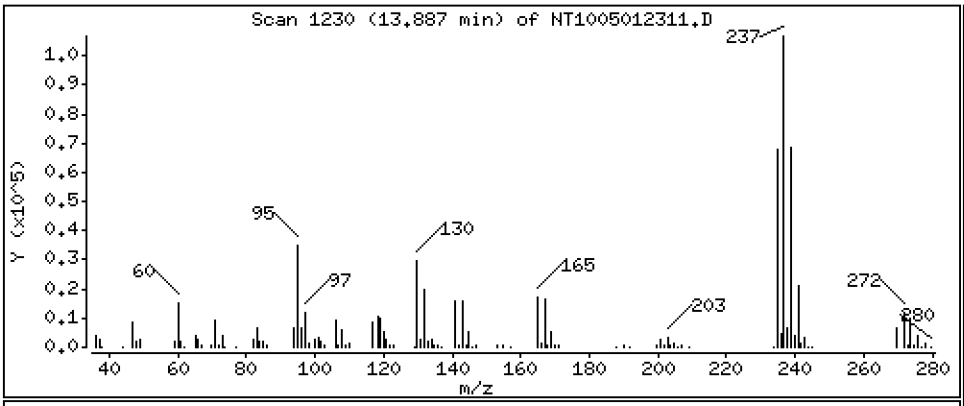
Operator: VTS

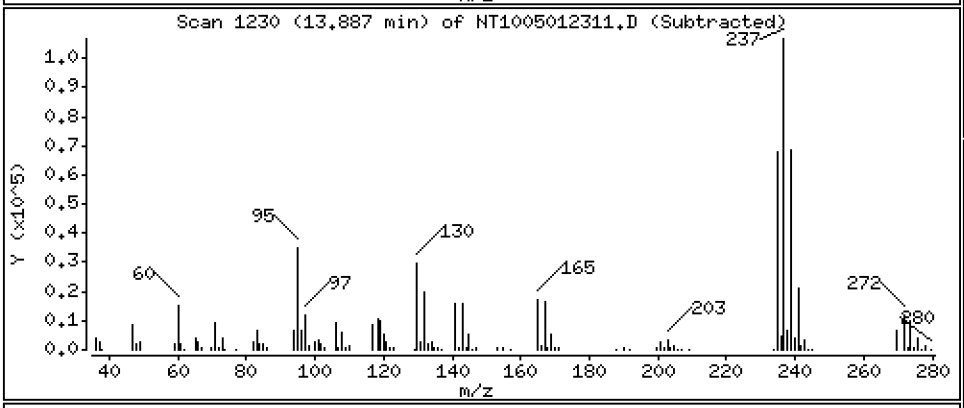
Column phase: ZB-5msi

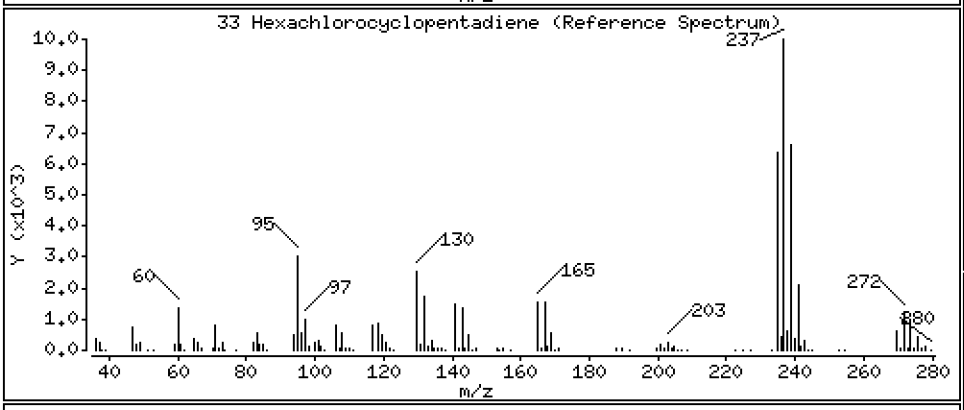
Column diameter: 0.25

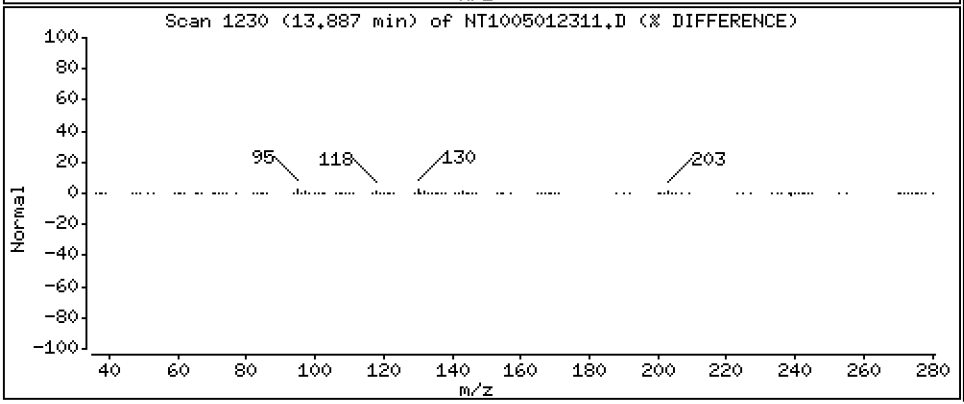
33 Hexachlorocyclopentadiene

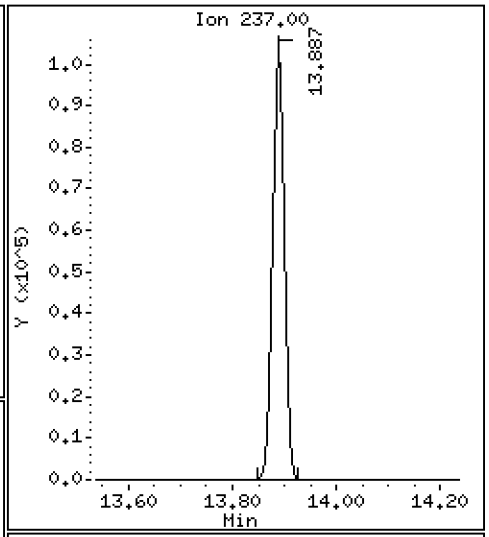
Concentration: 4.673 ug/mL

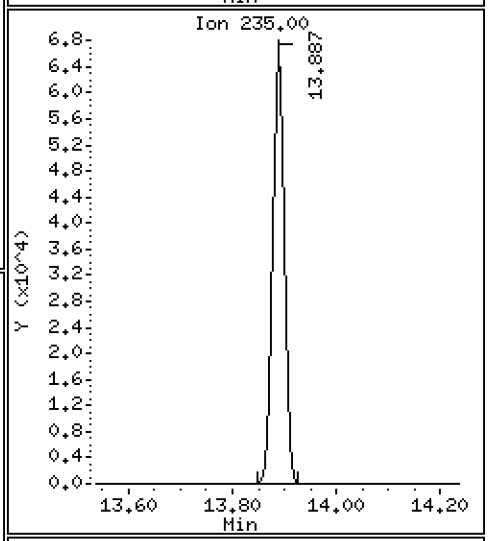


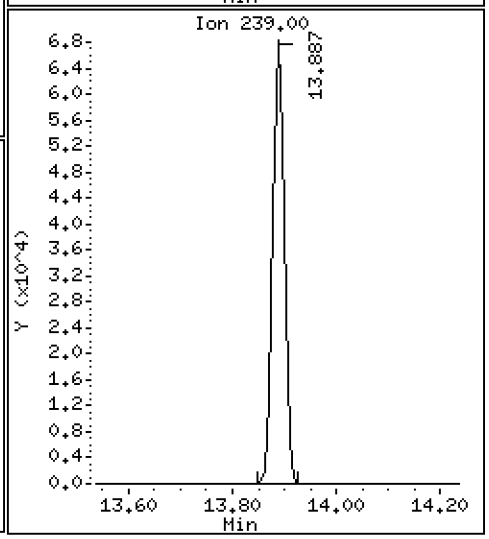












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

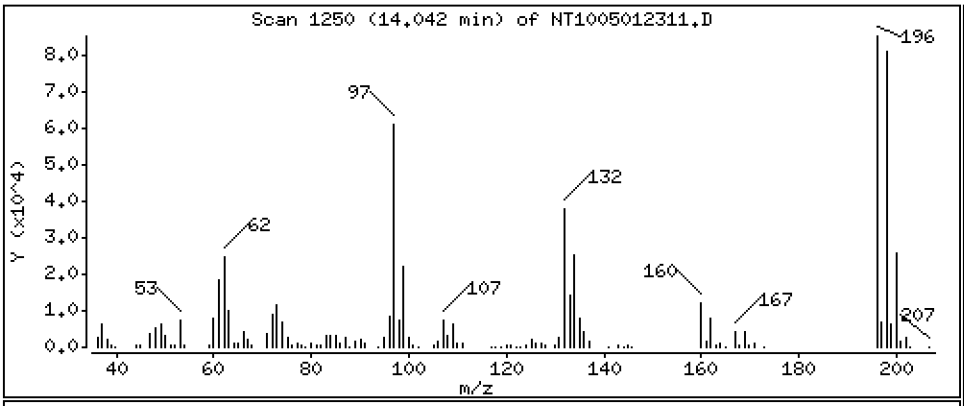
Operator: VTS

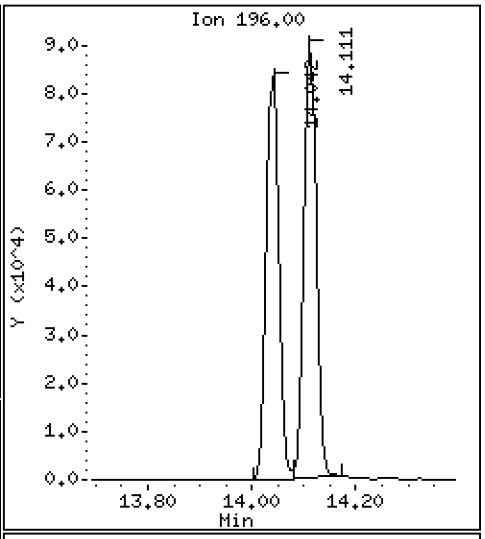
Column phase: ZB-5msi

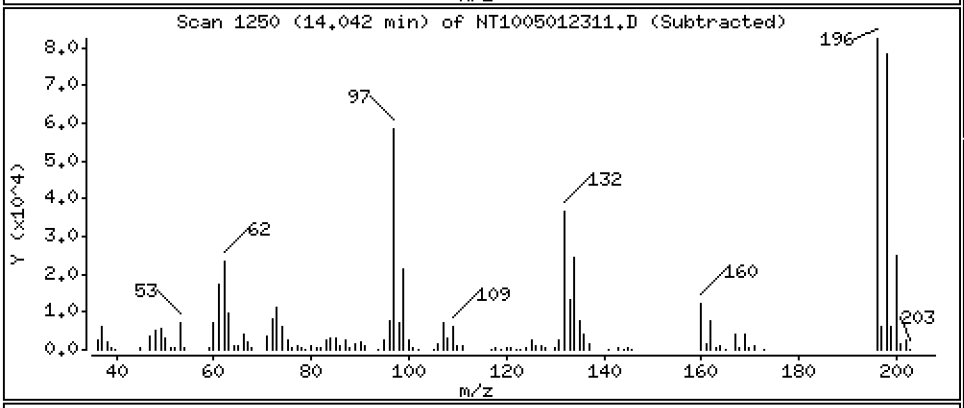
Column diameter: 0.25

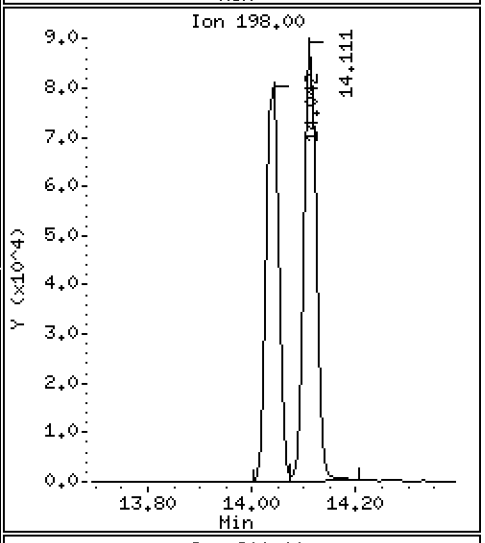
34 2,4,6-Trichlorophenol

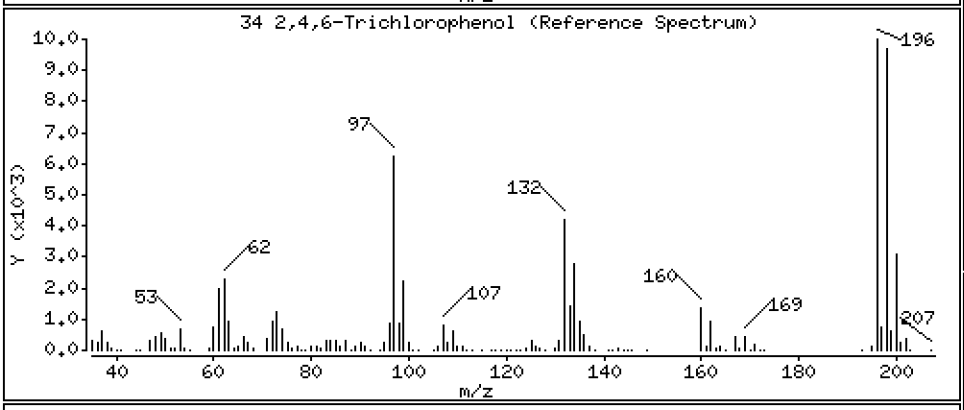
Concentration: 4.212 ug/mL

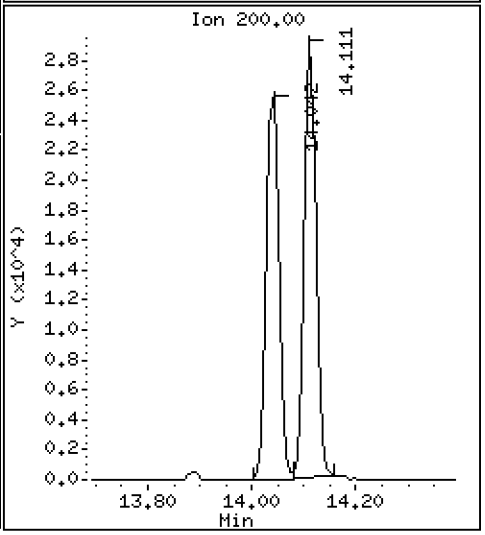


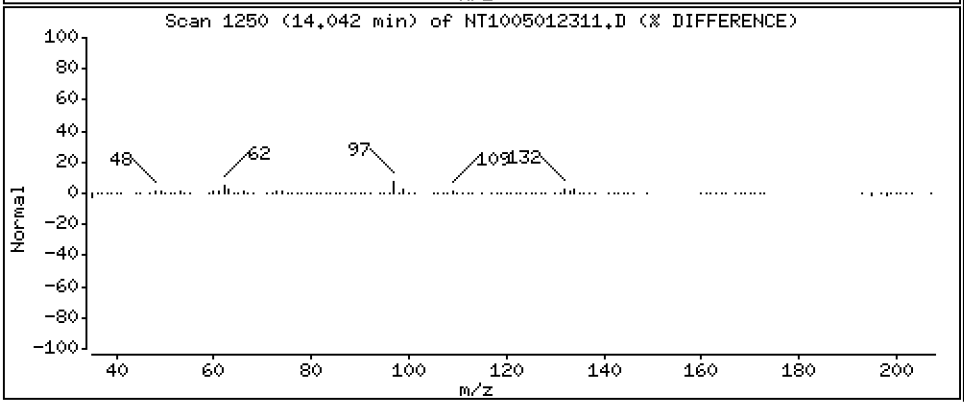












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

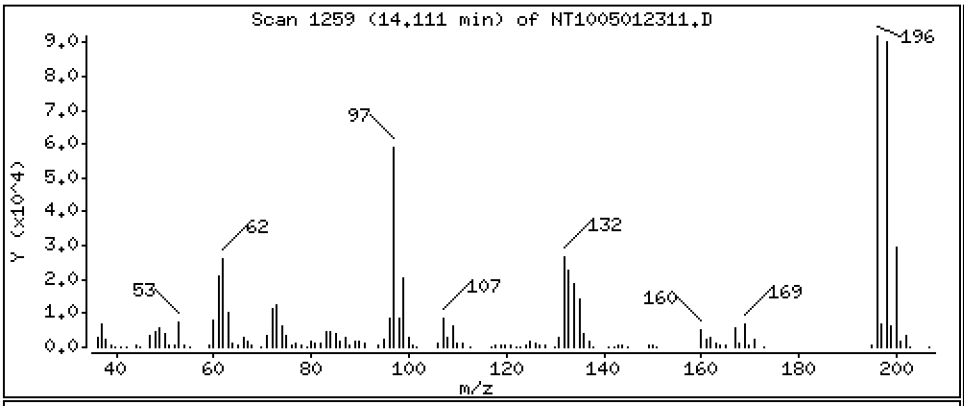
Operator: VTS

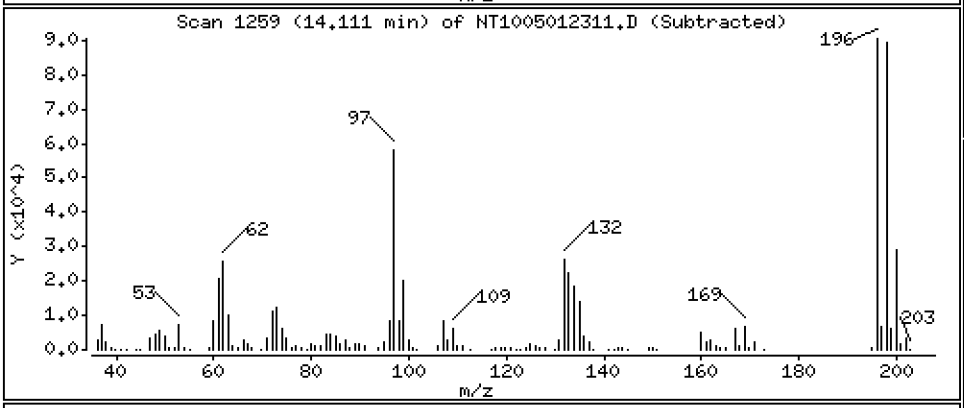
Column phase: ZB-5msi

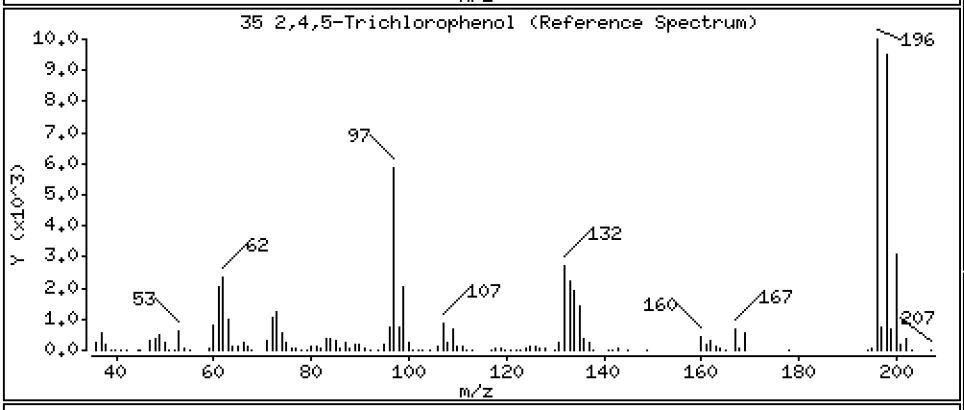
Column diameter: 0.25

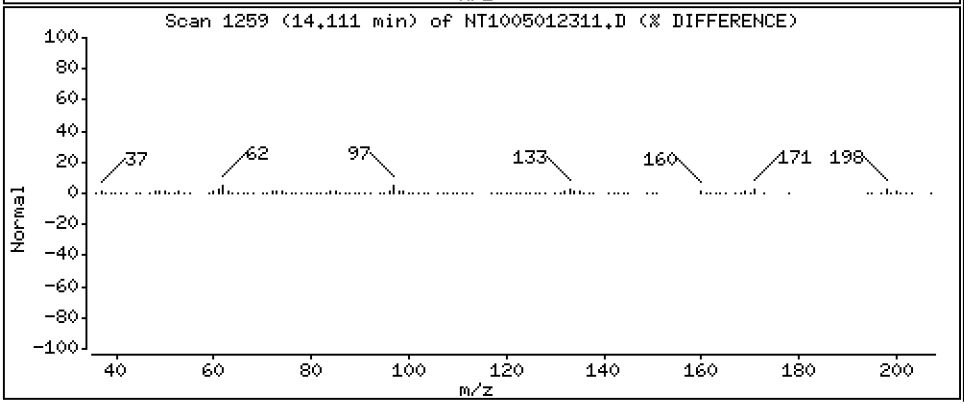
35 2,4,5-Trichlorophenol

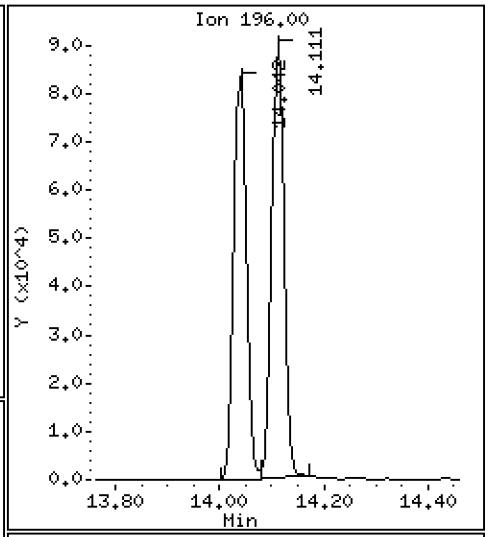
Concentration: 4.029 ug/mL

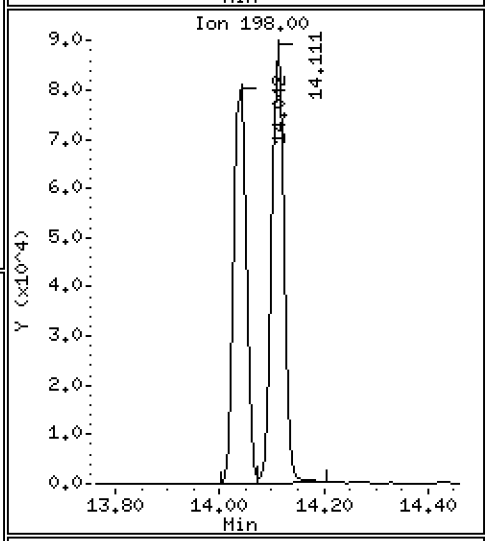


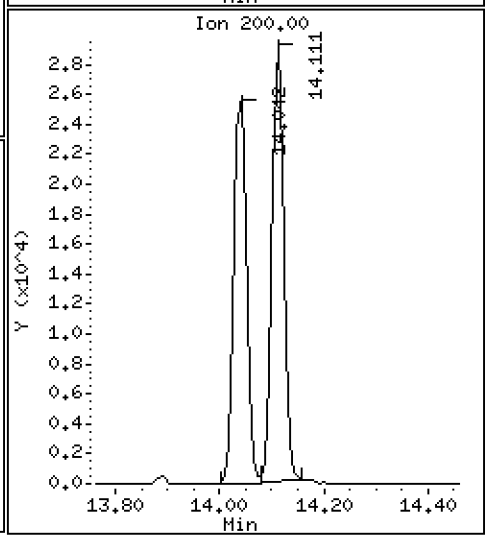












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

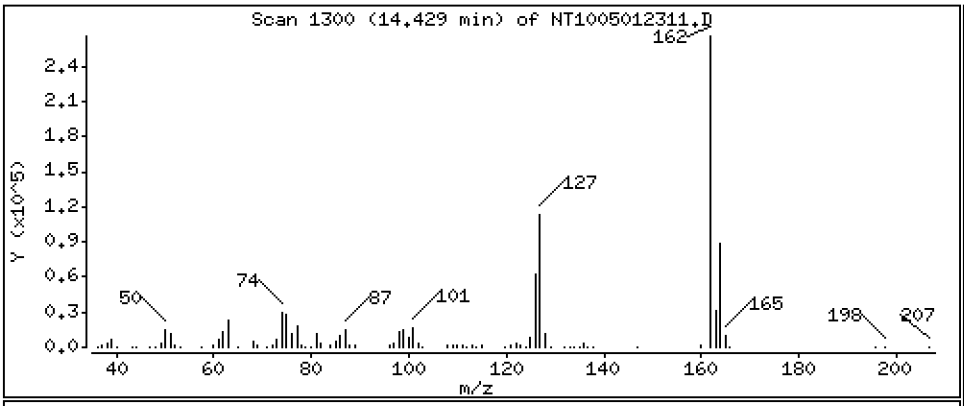
Operator: VTS

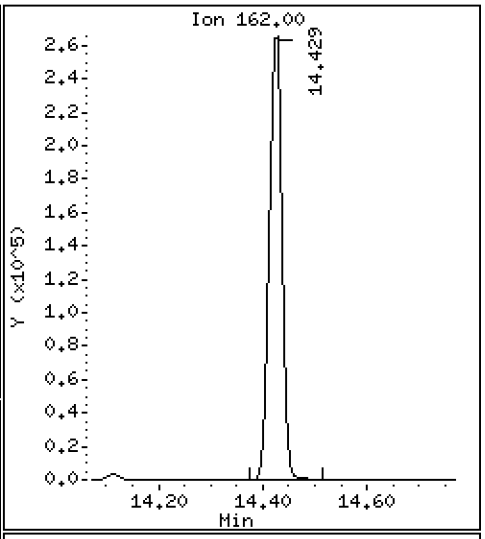
Column phase: ZB-5msi

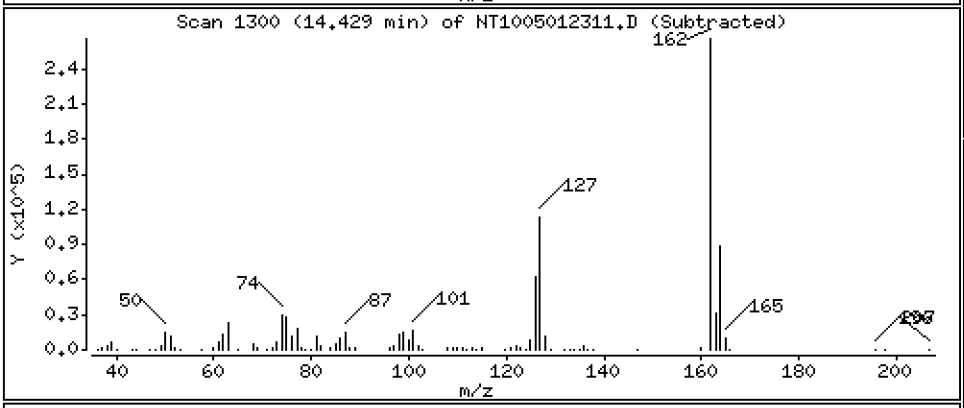
Column diameter: 0.25

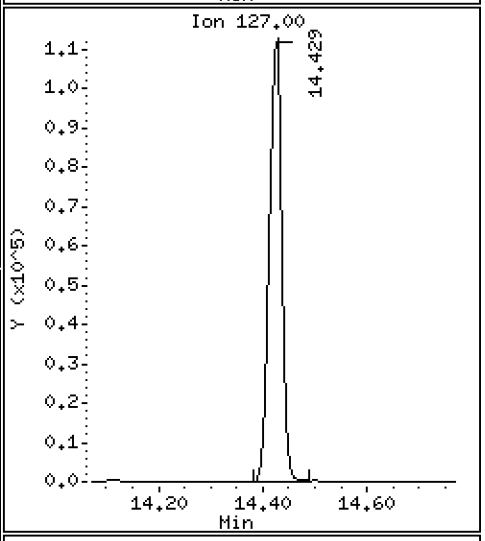
37 2-Chloronaphthalene

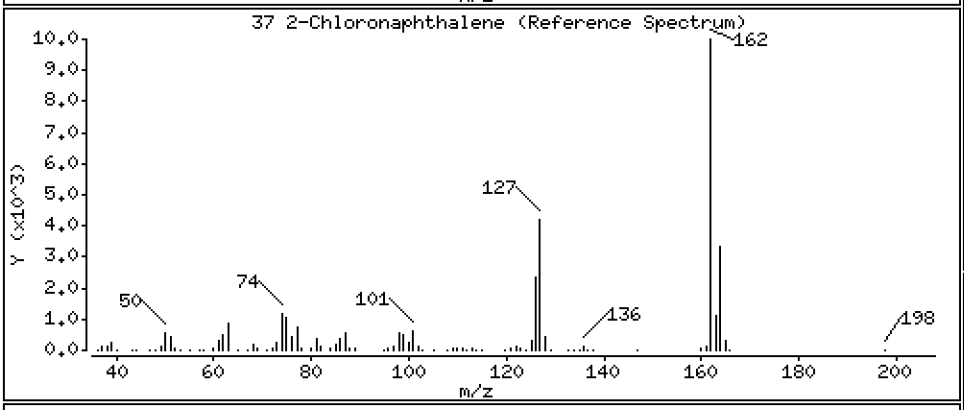
Concentration: 4.830 ug/mL

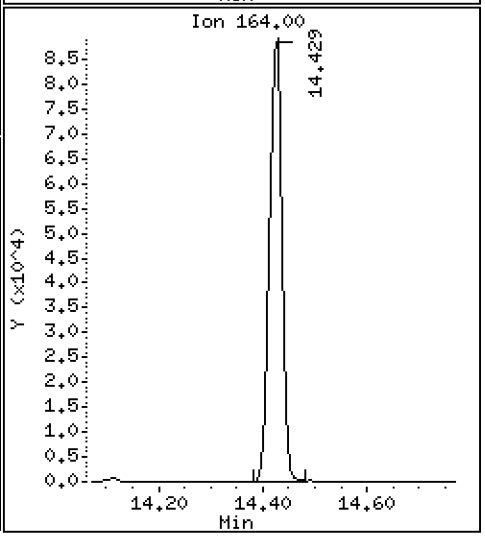


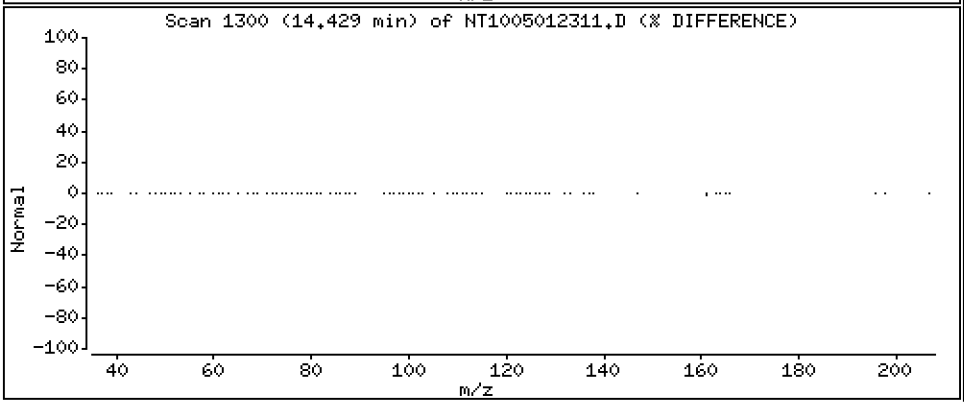












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

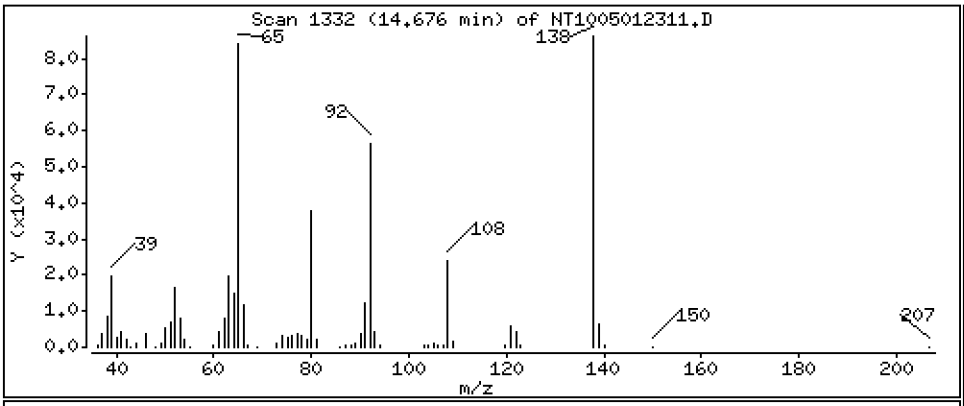
Operator: VTS

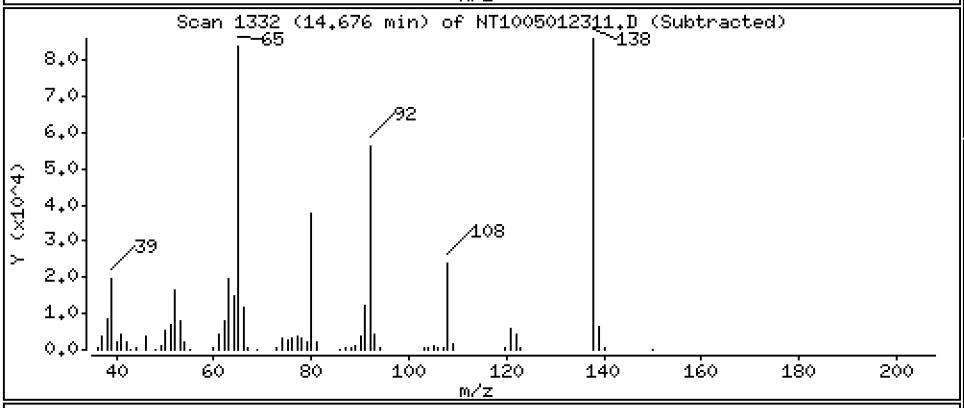
Column phase: ZB-5msi

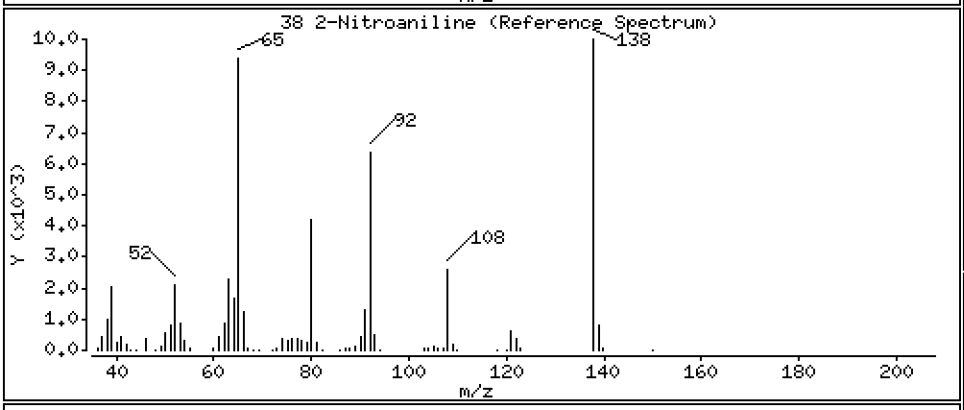
Column diameter: 0.25

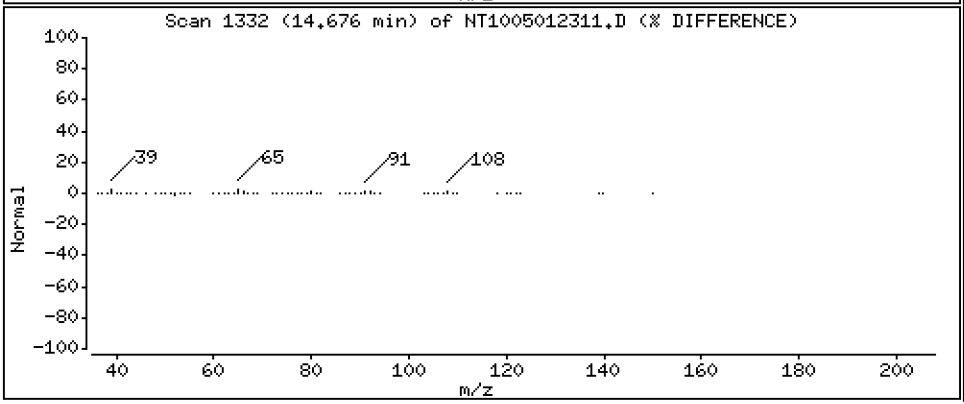
38 2-Nitroaniline

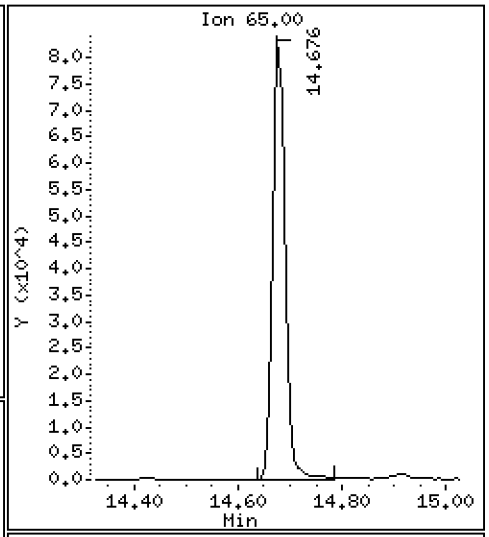
Concentration: 5.029 ug/mL

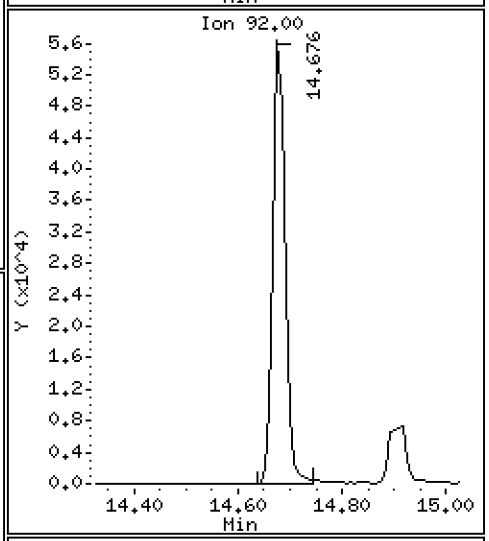


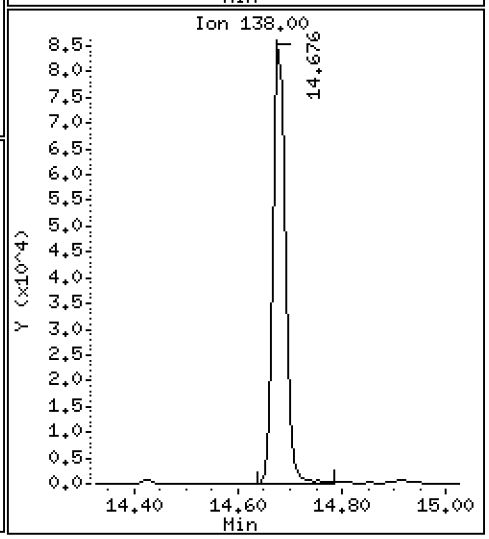












Date : 01-MAY-2023 20:43

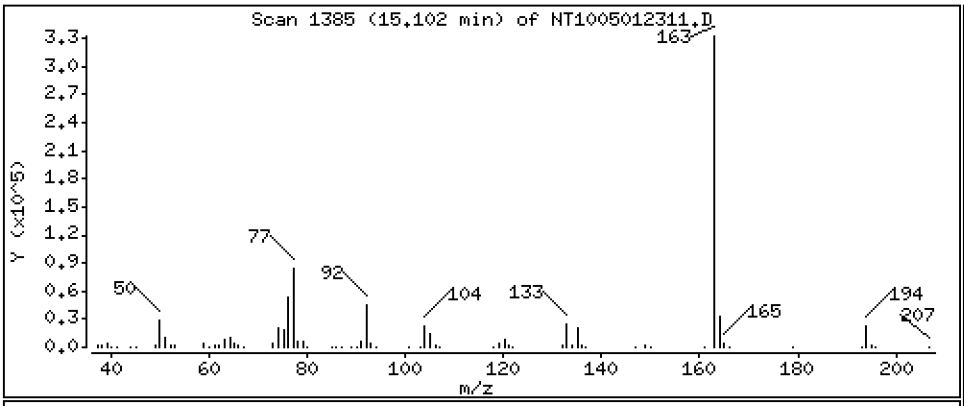
Client ID: Instrument: nt10.i

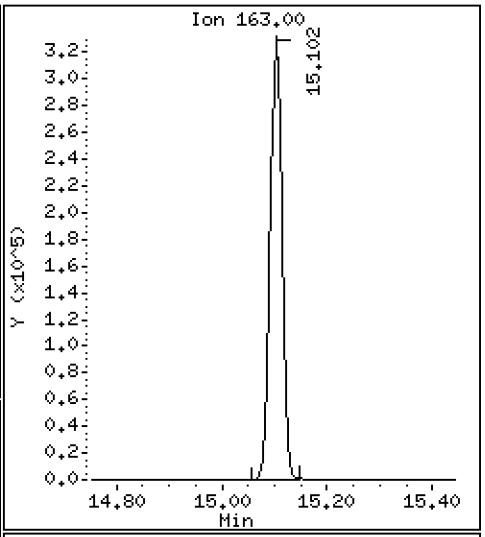
Sample Info: SLE0036-SCV1

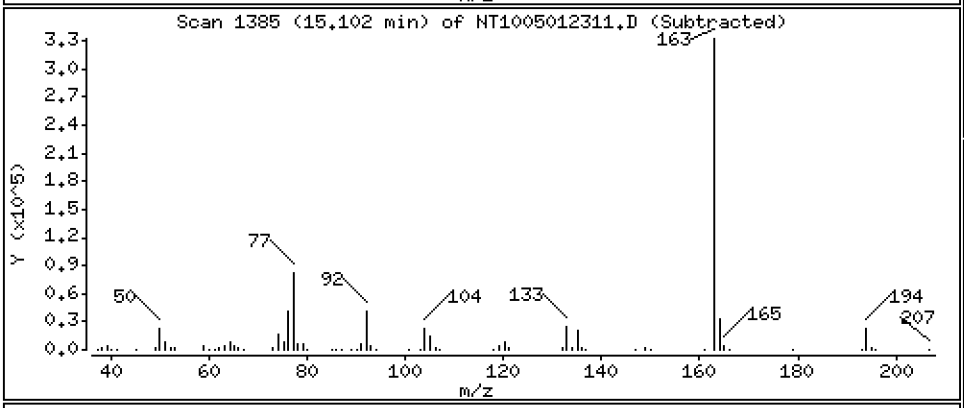
Operator: VTS

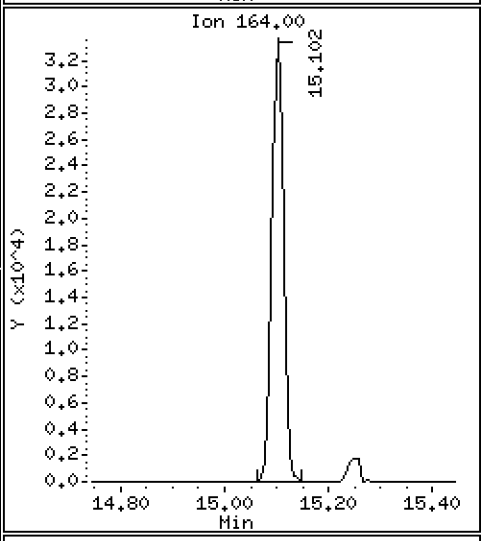
Column phase: ZB-5msi Column diameter: 0.25

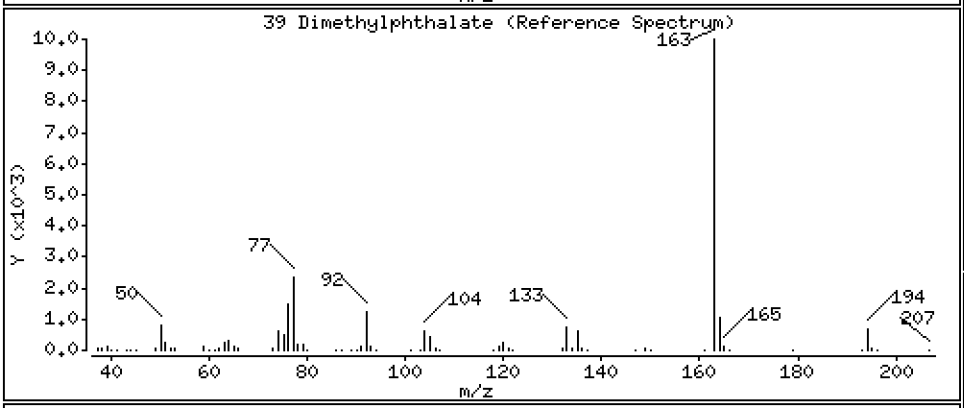
39 Dimethylphthalate Concentration: 4.908 ug/mL

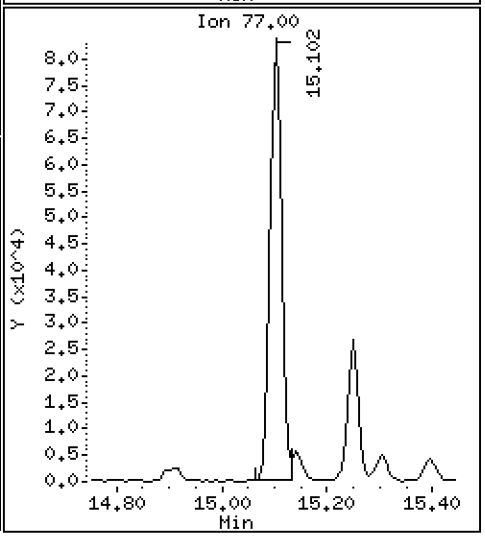


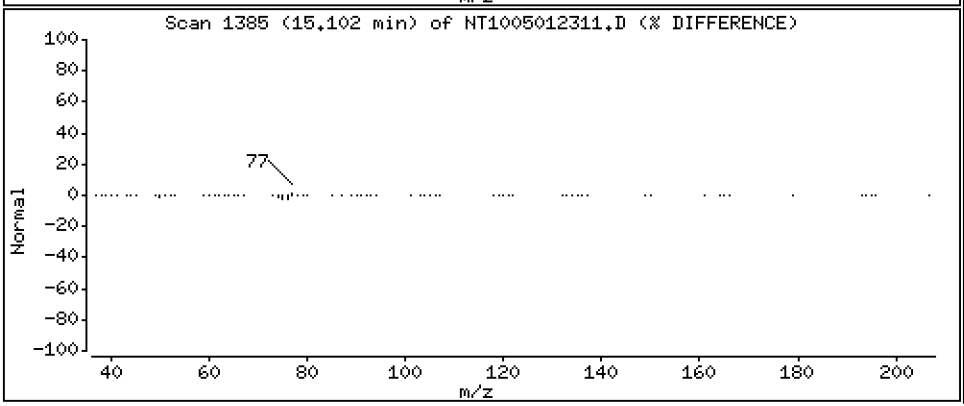












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

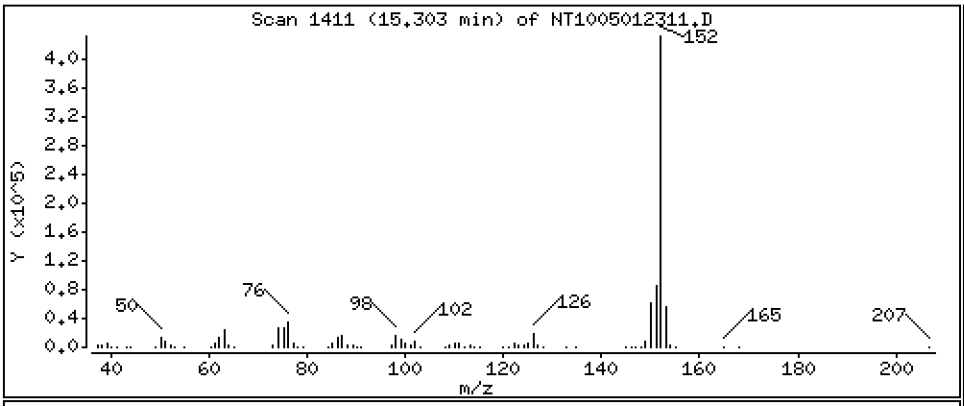
Operator: VTS

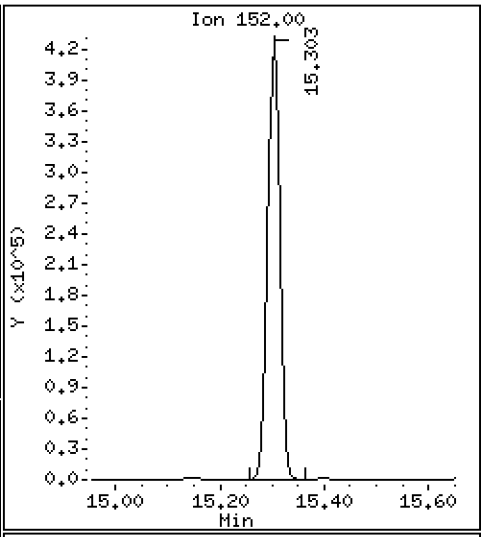
Column phase: ZB-5msi

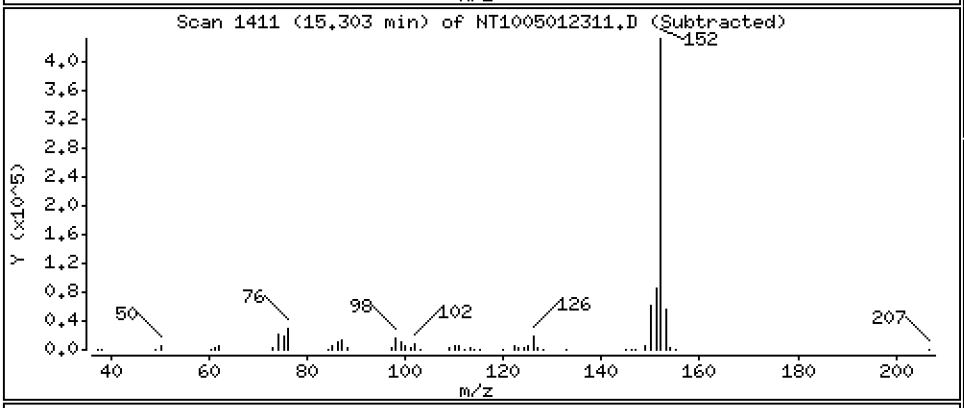
Column diameter: 0.25

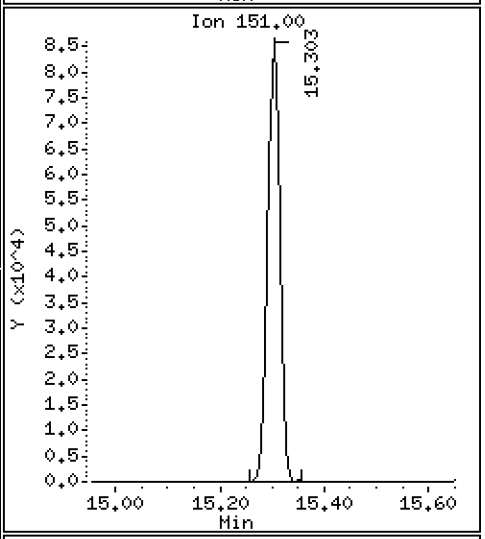
40 Acenaphthylene

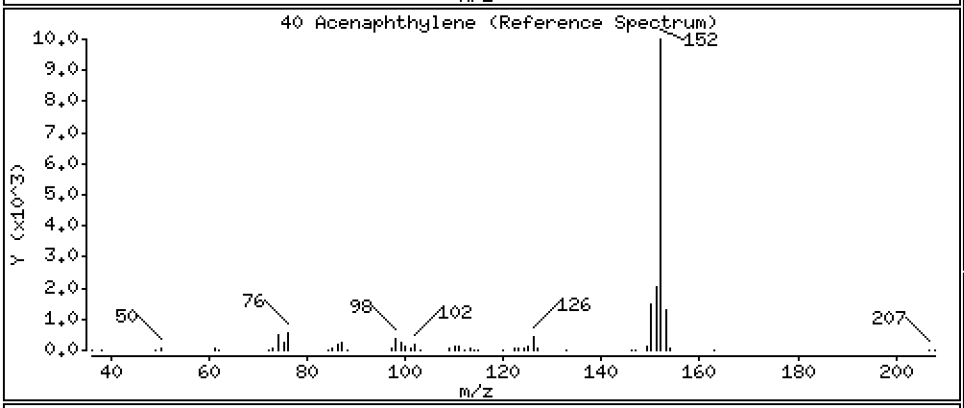
Concentration: 4.776 ug/mL

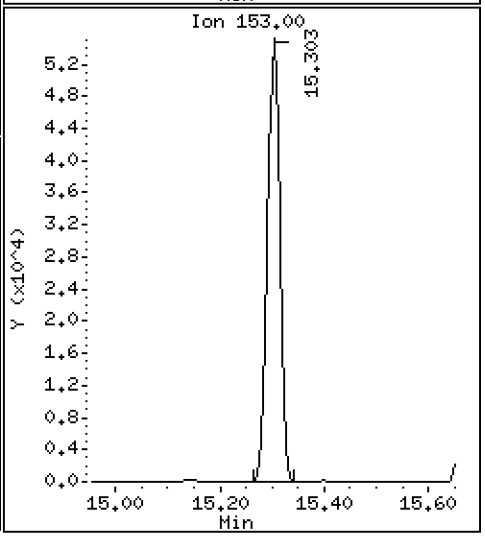


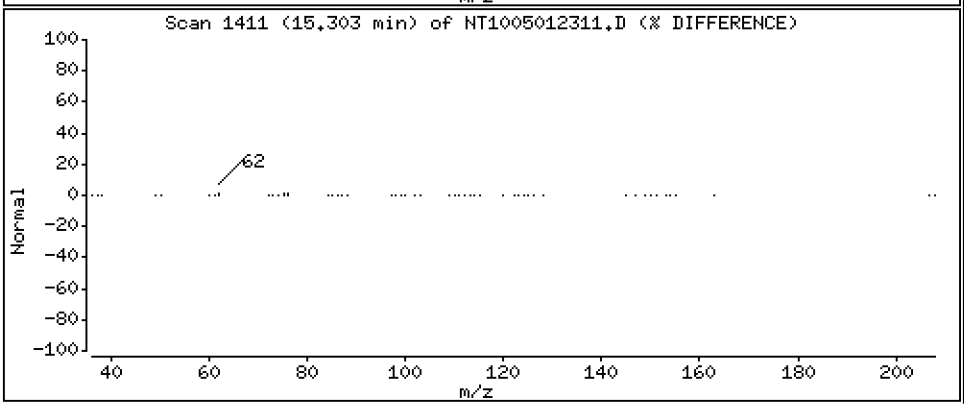












Date : 01-MAY-2023 20:43

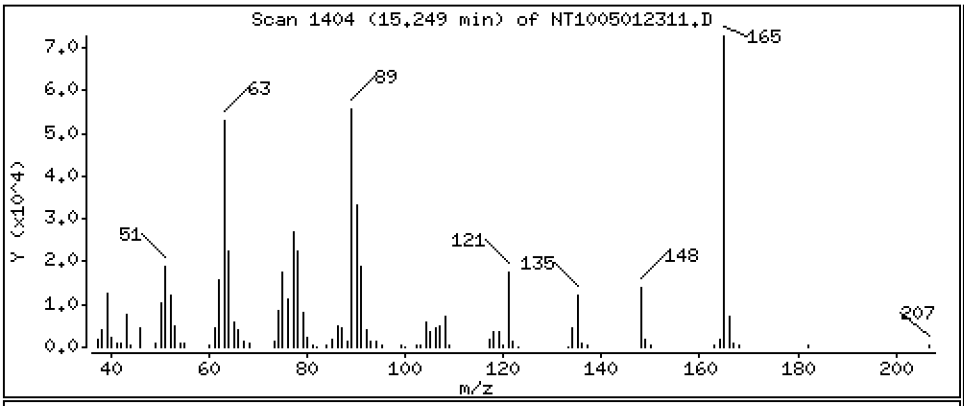
Client ID: Instrument: nt10.i

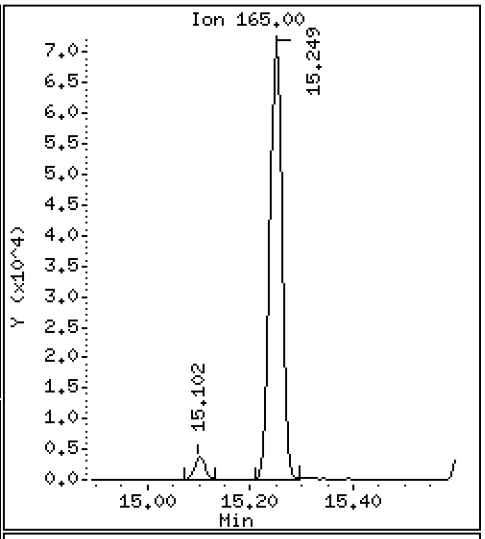
Sample Info: SLE0036-SCV1

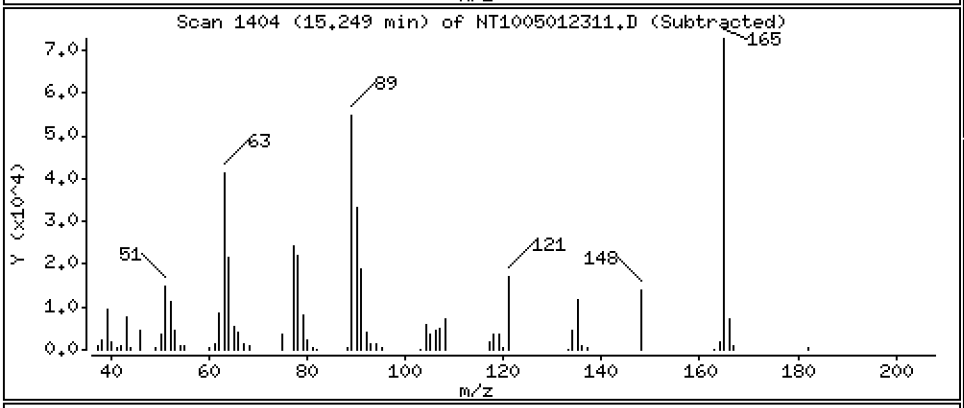
Operator: VTS

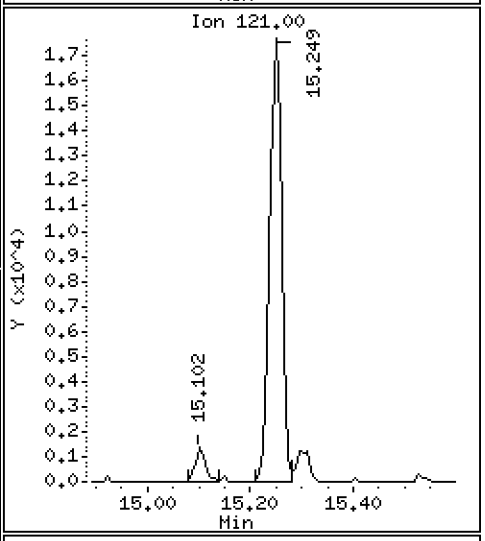
Column phase: ZB-5msi Column diameter: 0.25

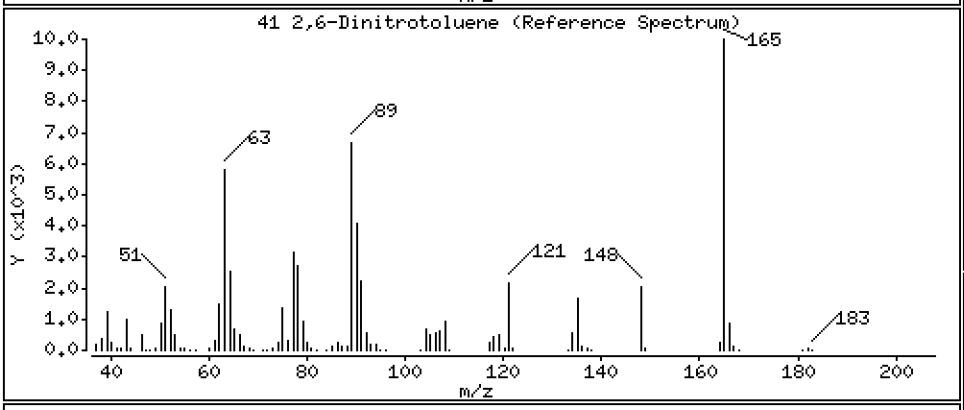
41 2,6-Dinitrotoluene Concentration: 4.876 ug/mL

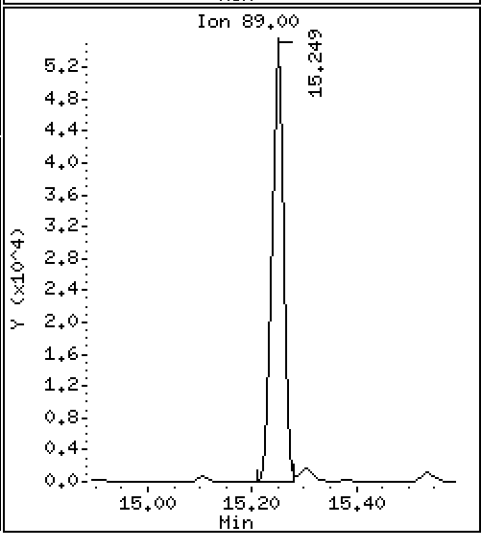


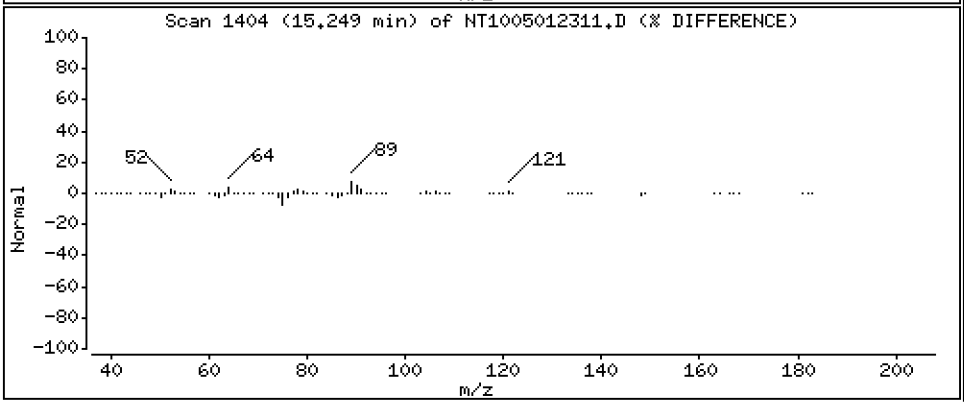












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

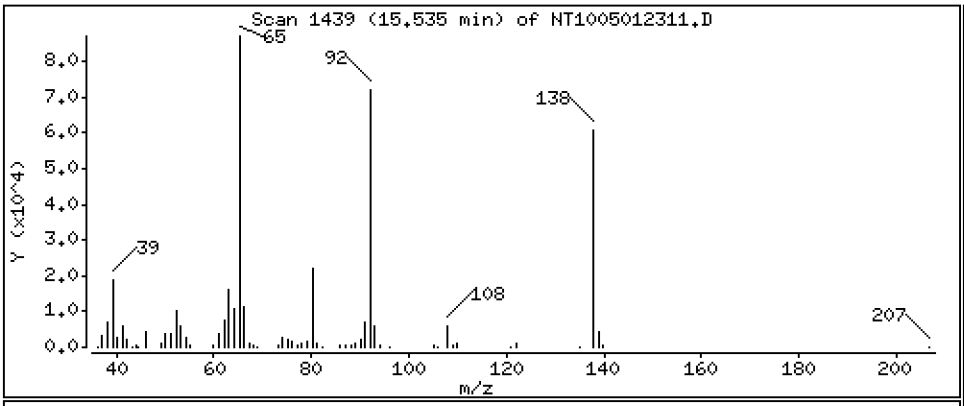
Operator: VTS

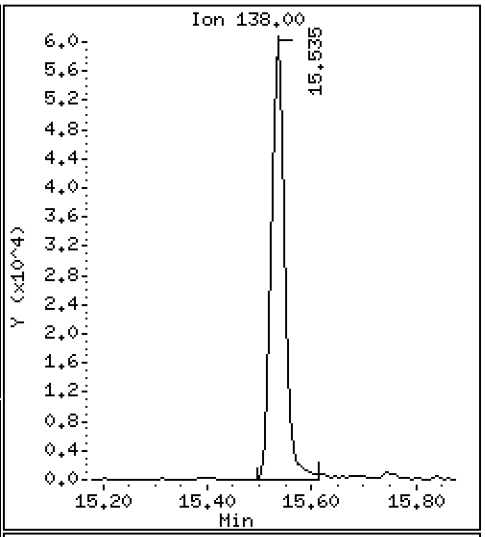
Column phase: ZB-5msi

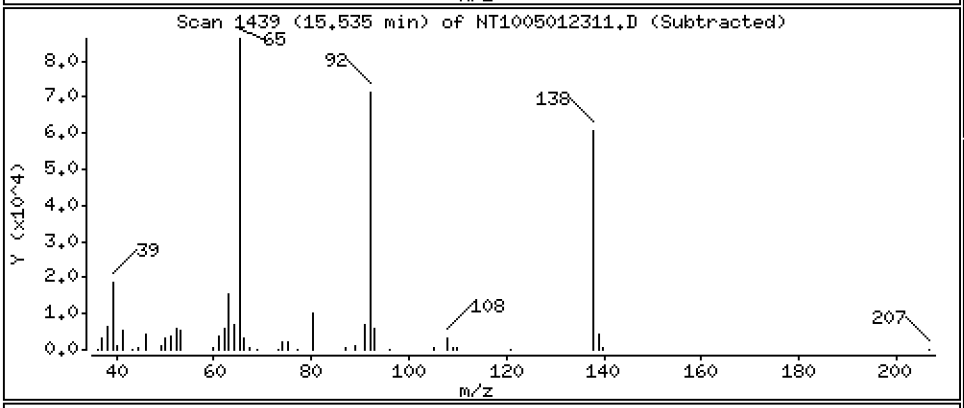
Column diameter: 0.25

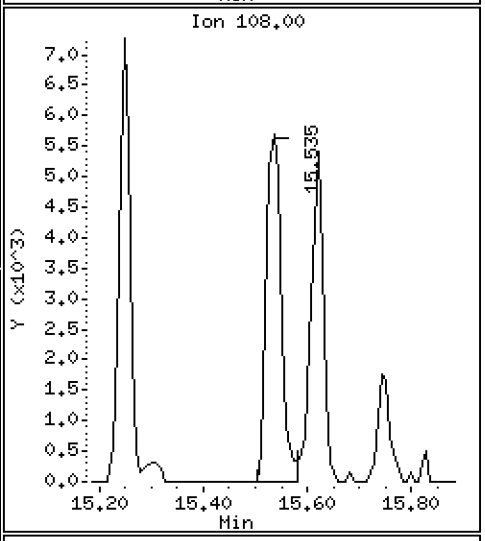
43 3-Nitroaniline

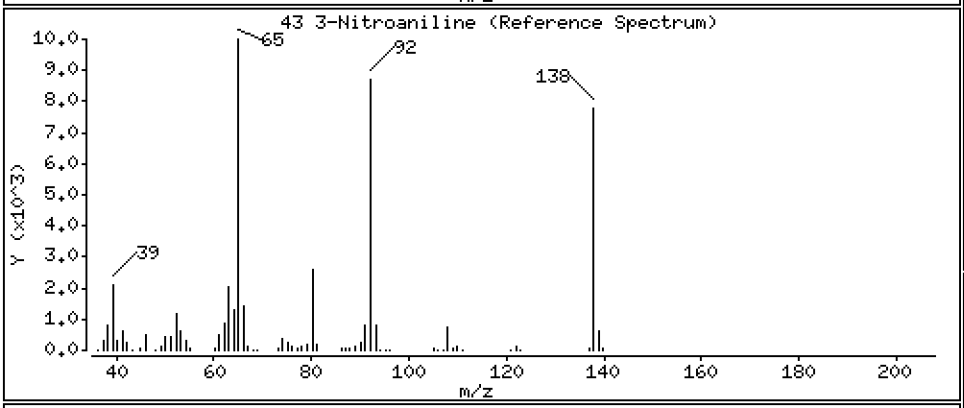
Concentration: 4.776 ug/mL

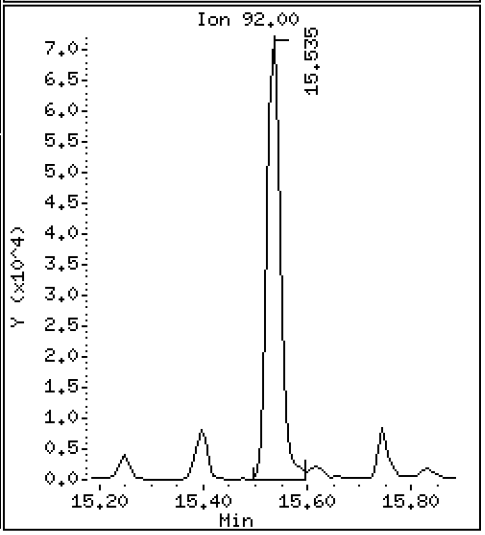


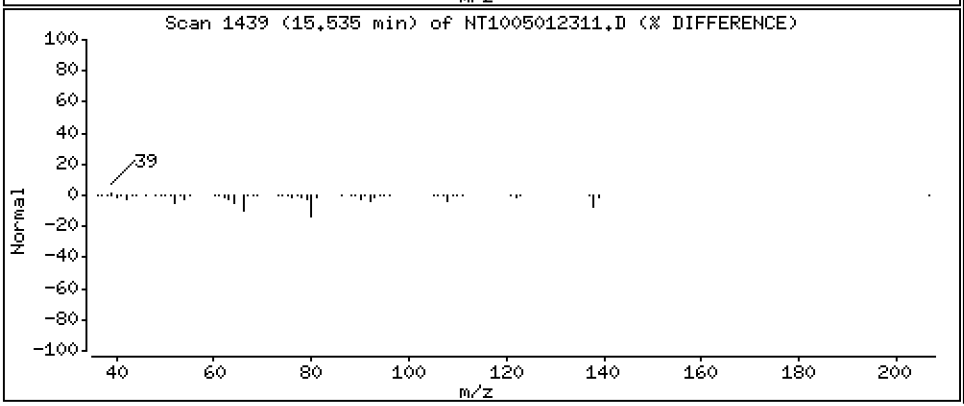












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

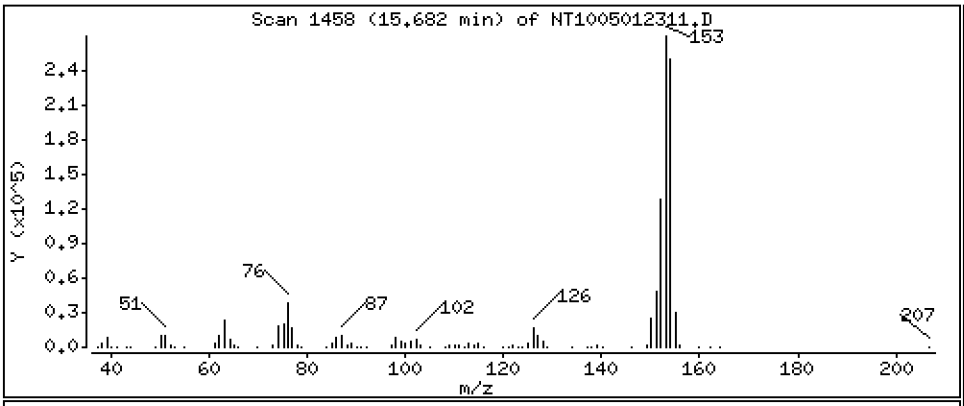
Operator: VTS

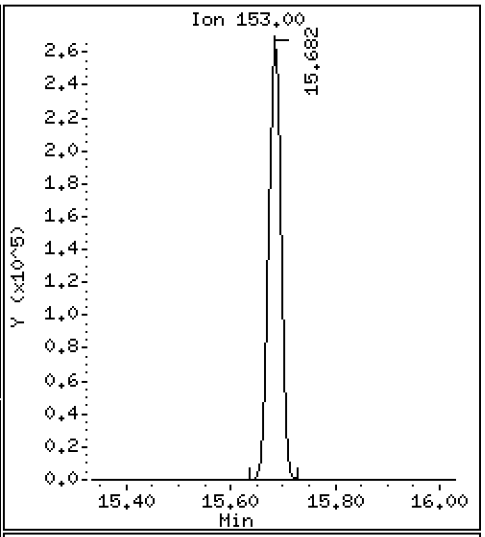
Column phase: ZB-5msi

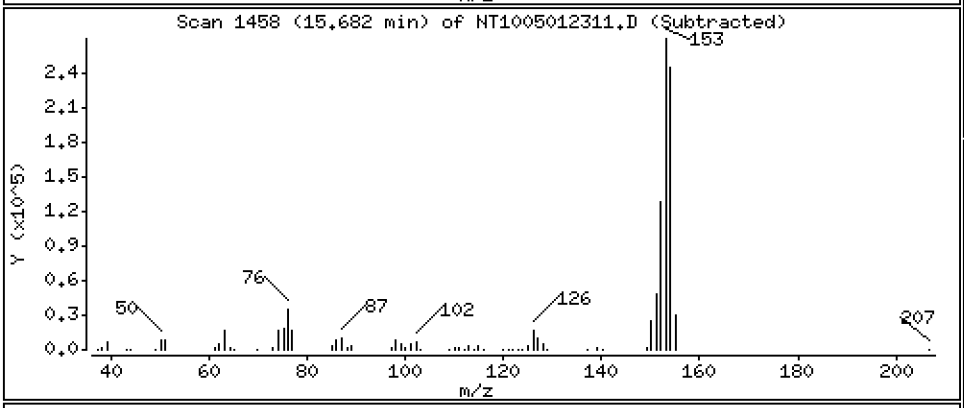
Column diameter: 0.25

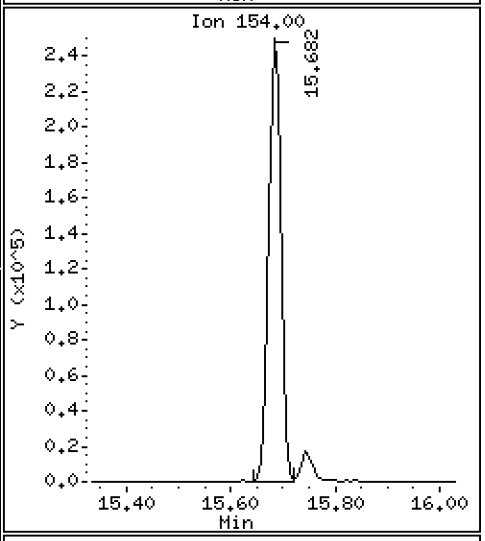
44 Acenaphthene

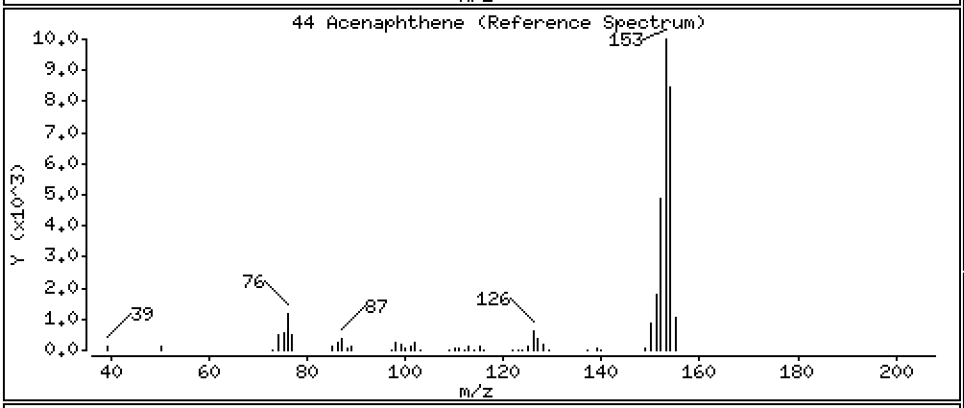
Concentration: 4.716 ug/mL

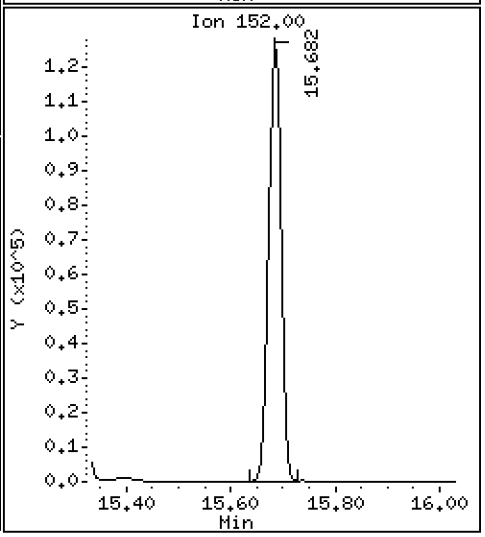


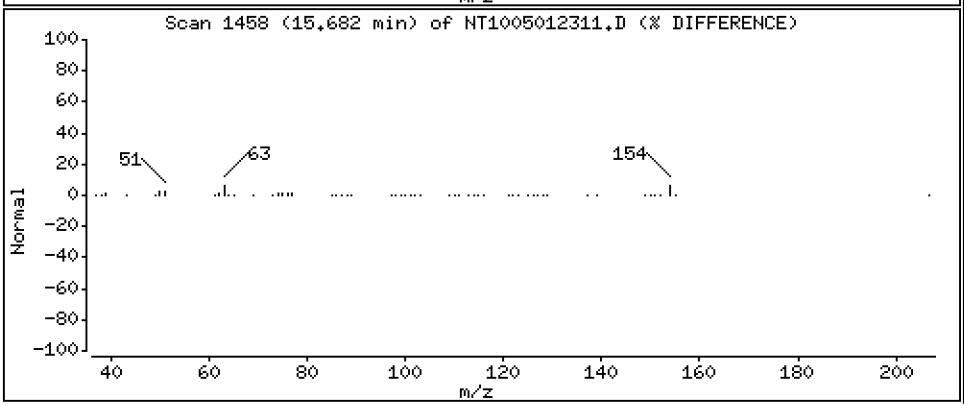












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

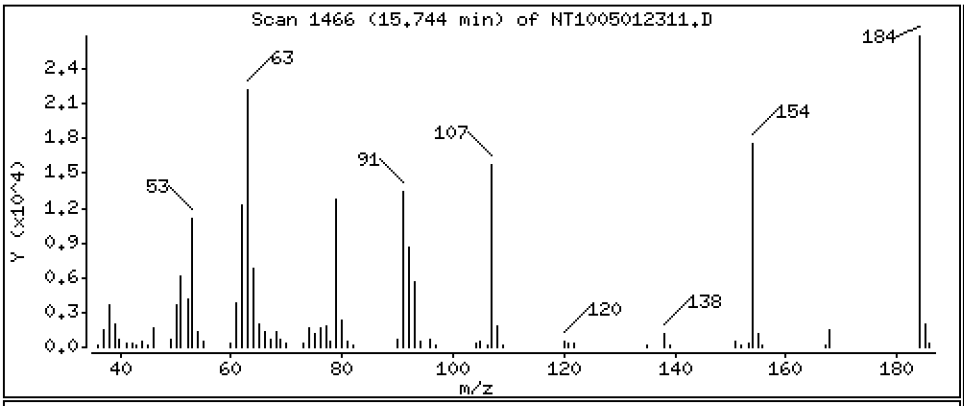
Operator: VTS

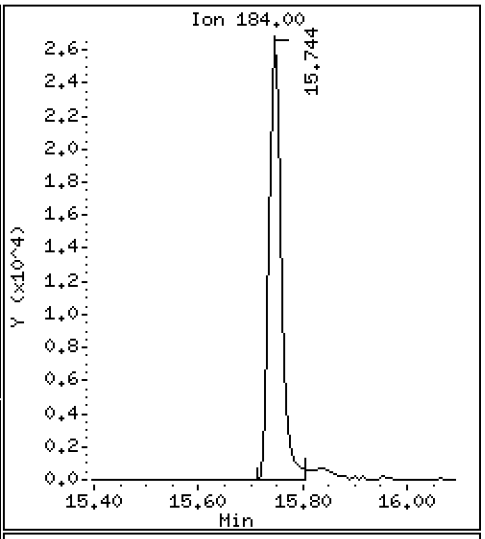
Column phase: ZB-5msi

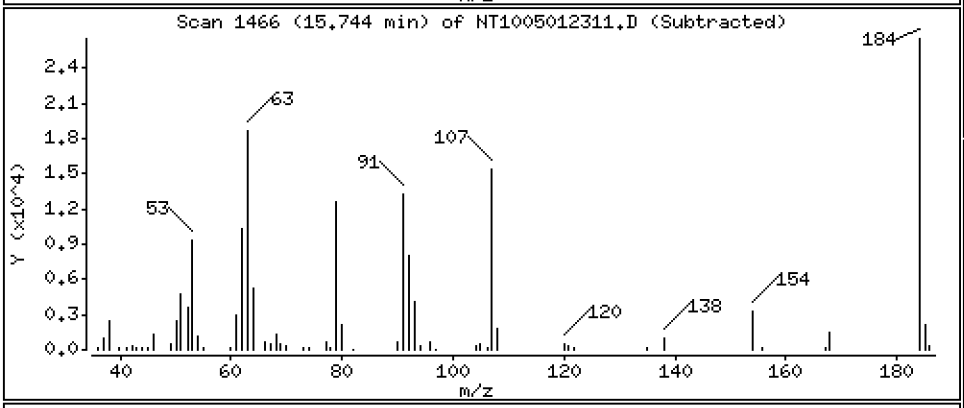
Column diameter: 0.25

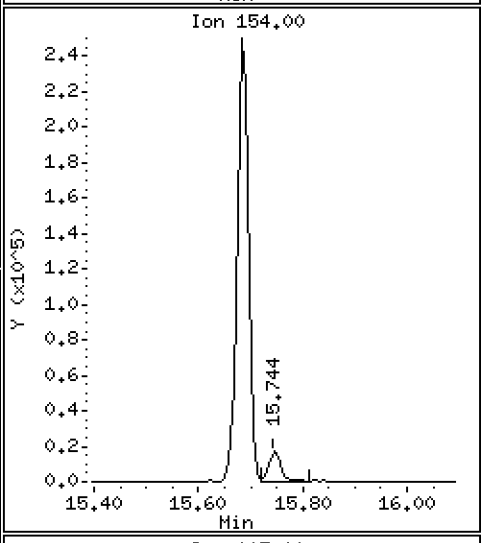
45 2,4-Dinitrophenol

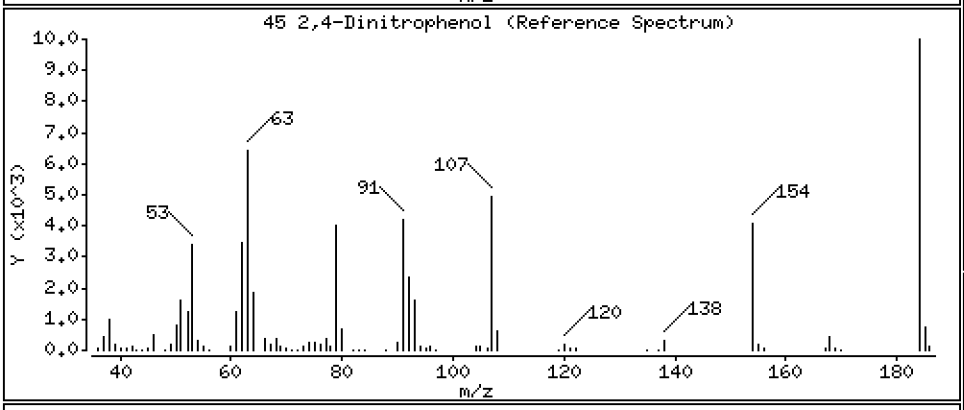
Concentration: 2.376 ug/mL

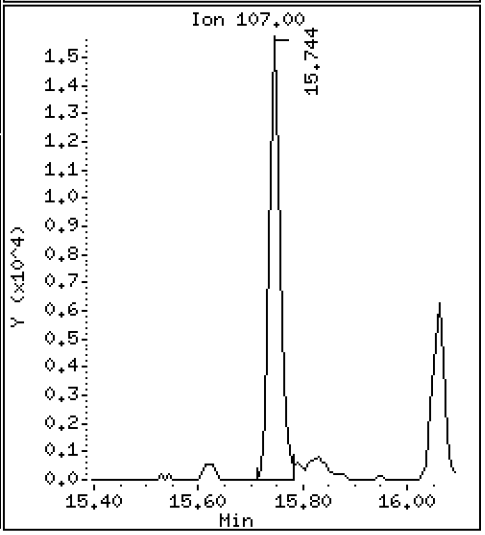


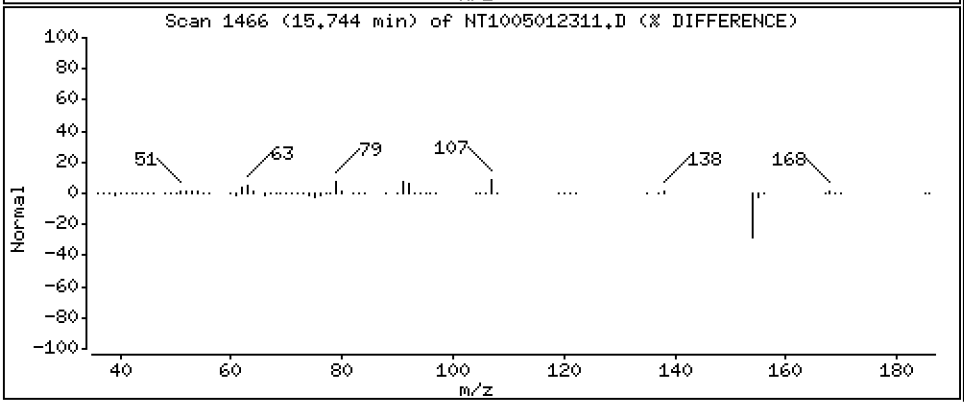












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

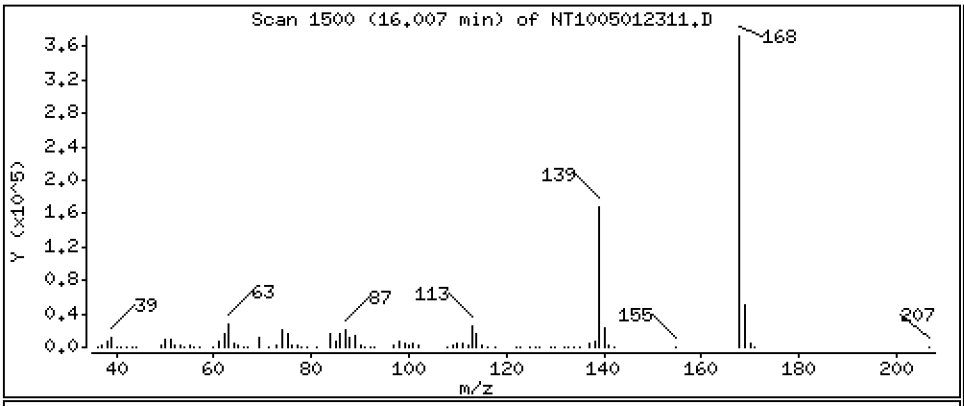
Operator: VTS

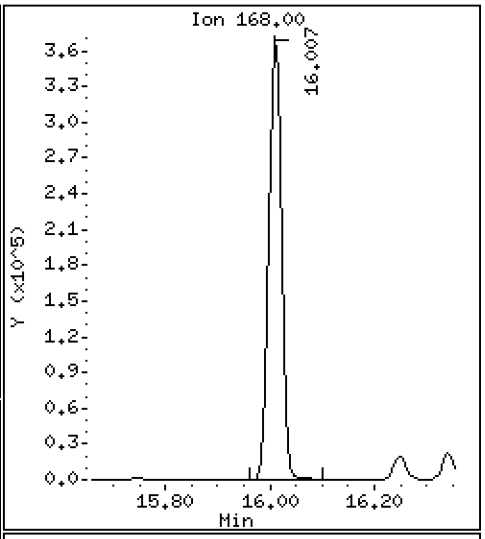
Column phase: ZB-5msi

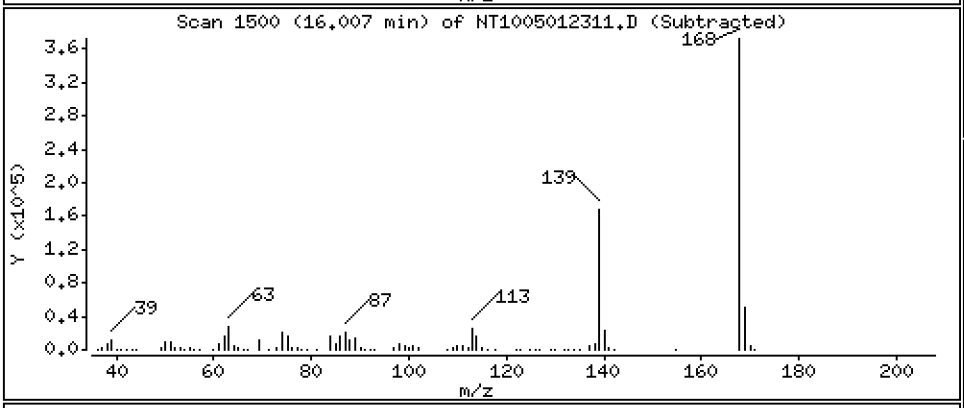
Column diameter: 0.25

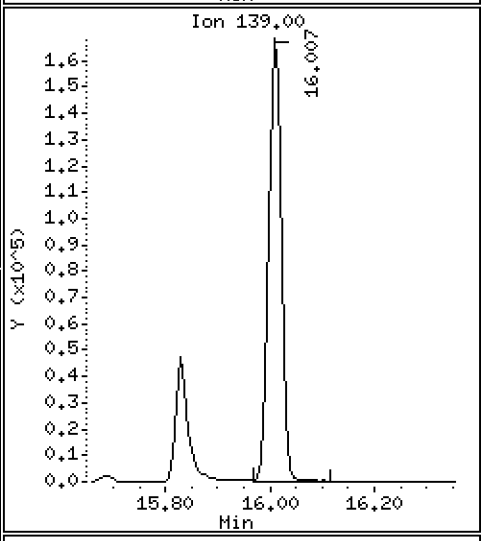
46 Dibenzofuran

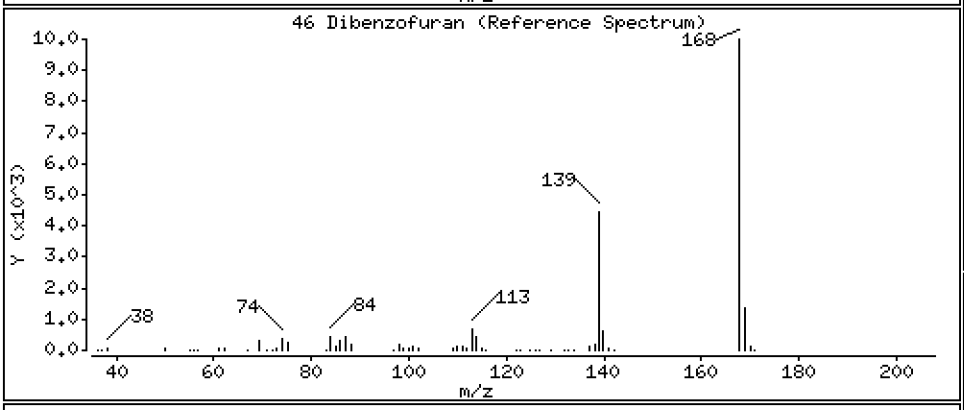
Concentration: 4.645 ug/mL

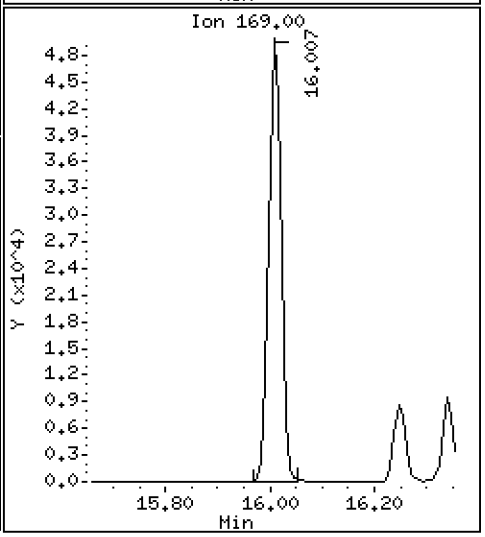


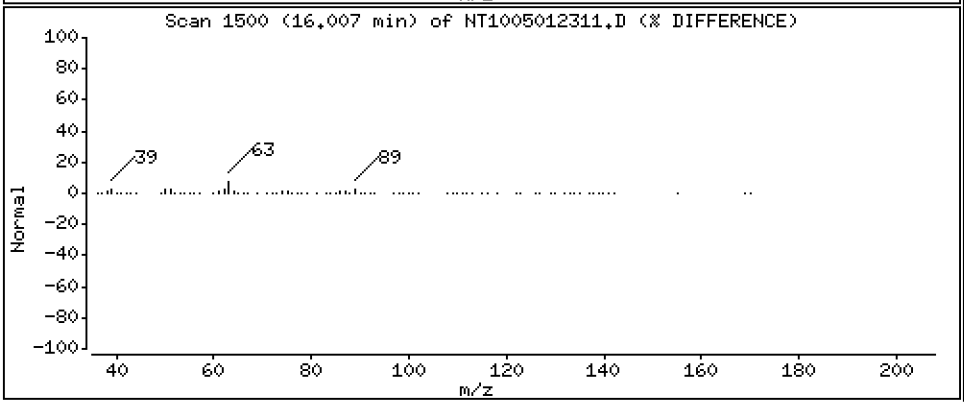












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

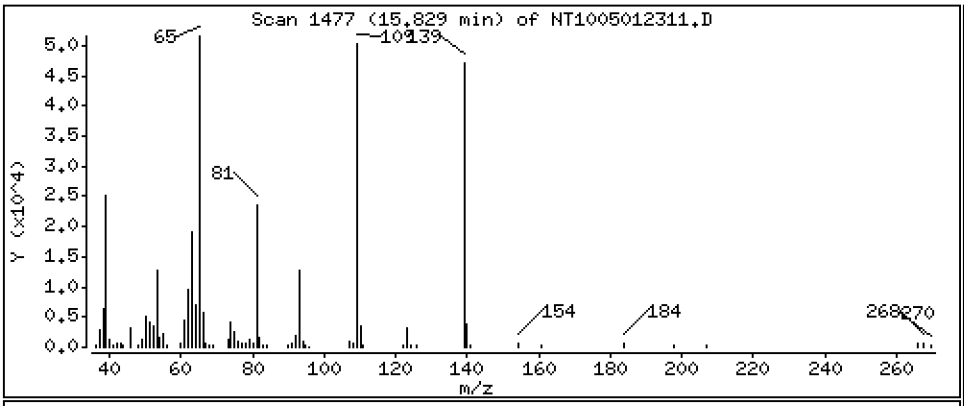
Operator: VTS

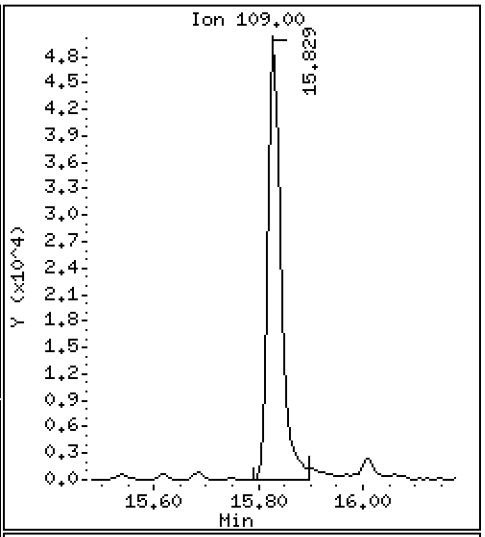
Column phase: ZB-5msi

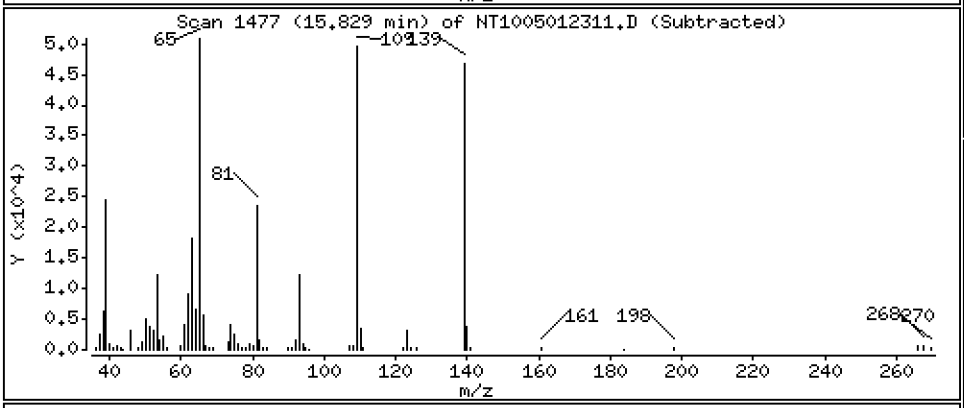
Column diameter: 0.25

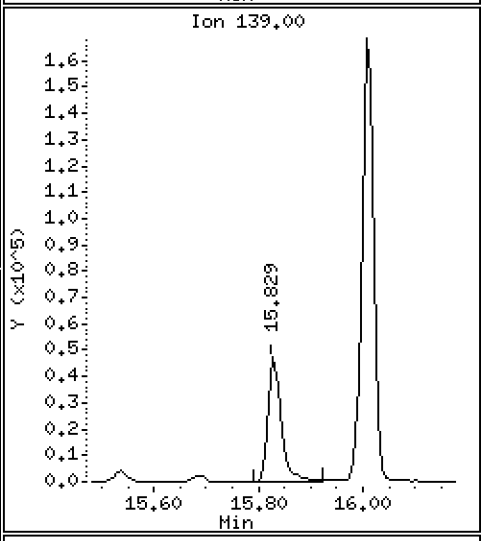
47 4-Nitrophenol

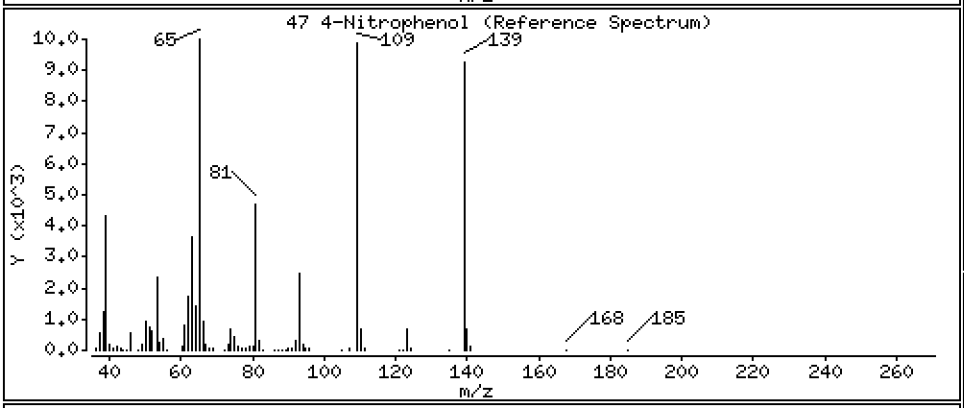
Concentration: 3.992 ug/mL

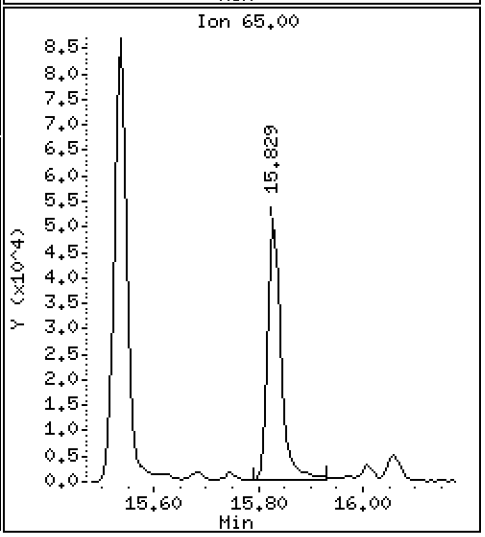


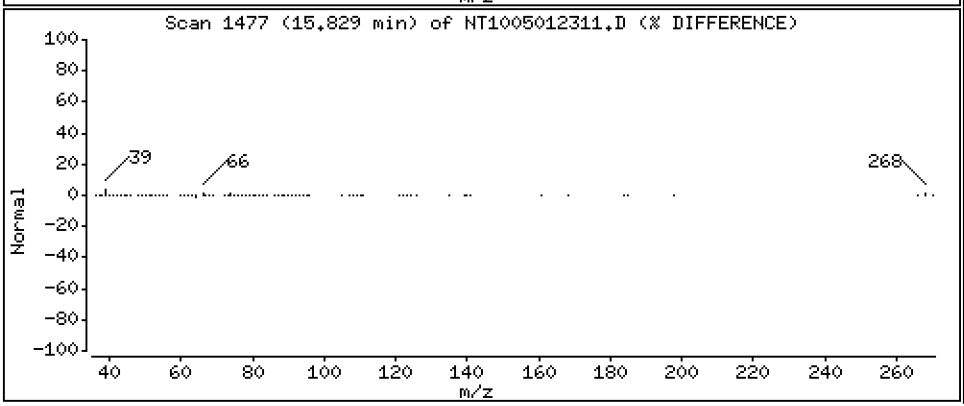












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

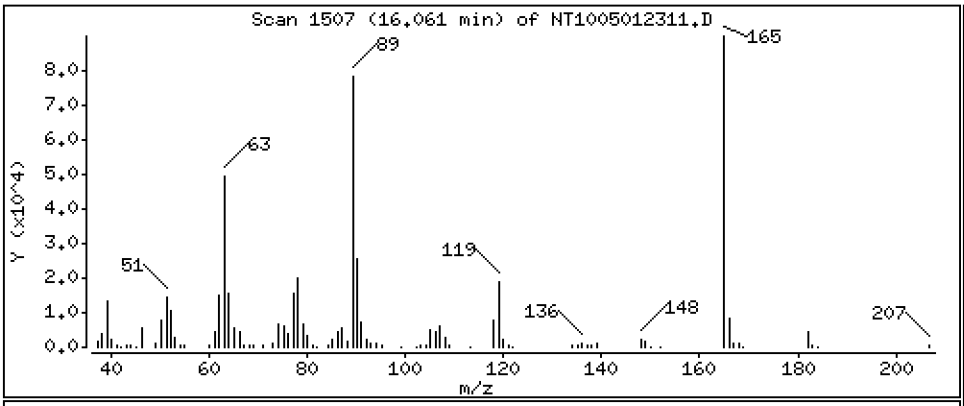
Operator: VTS

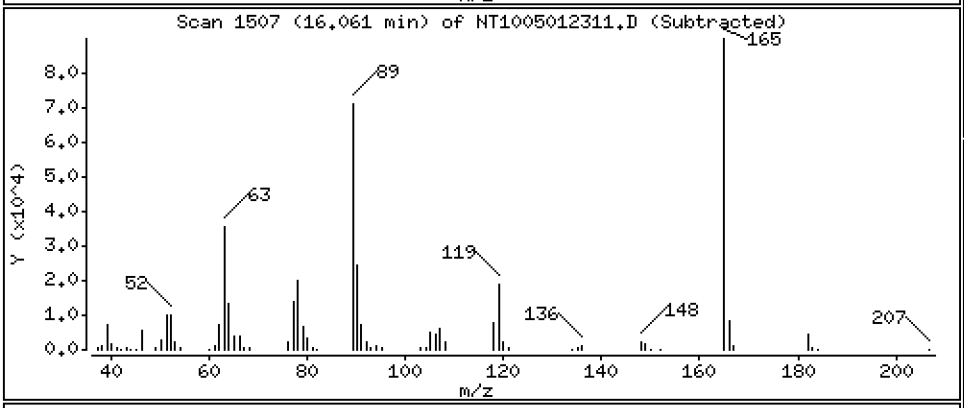
Column phase: ZB-5msi

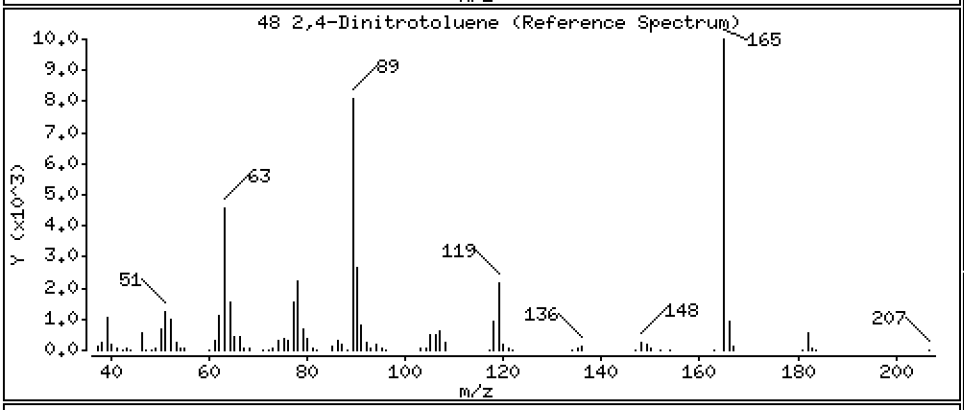
Column diameter: 0.25

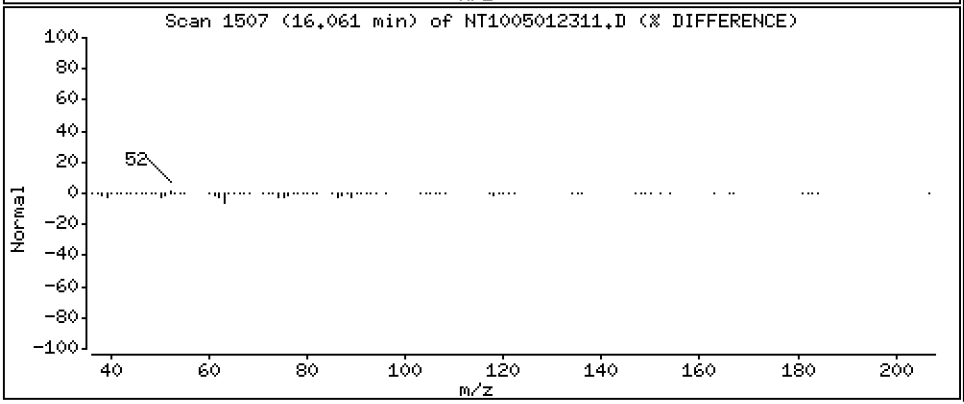
48 2,4-Dinitrotoluene

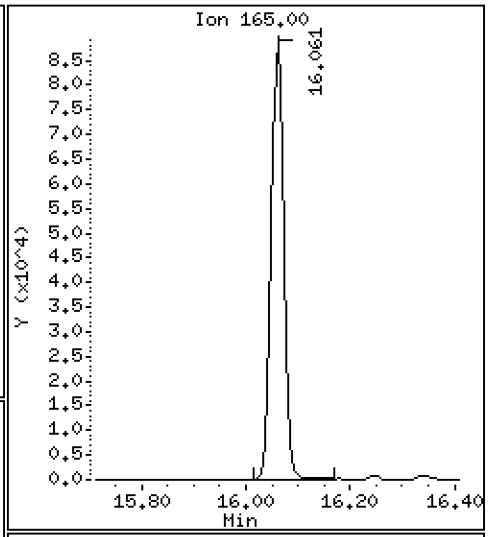
Concentration: 4.381 ug/mL

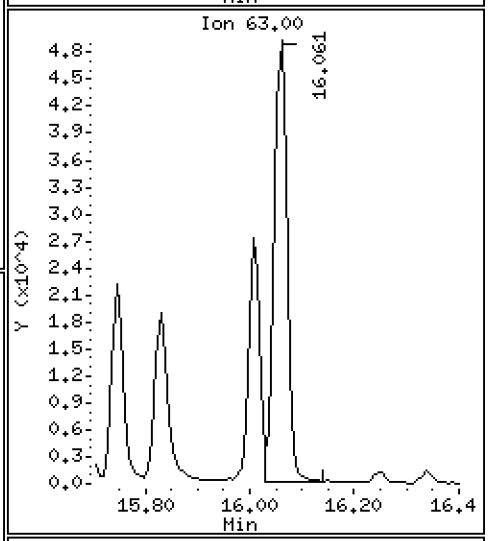


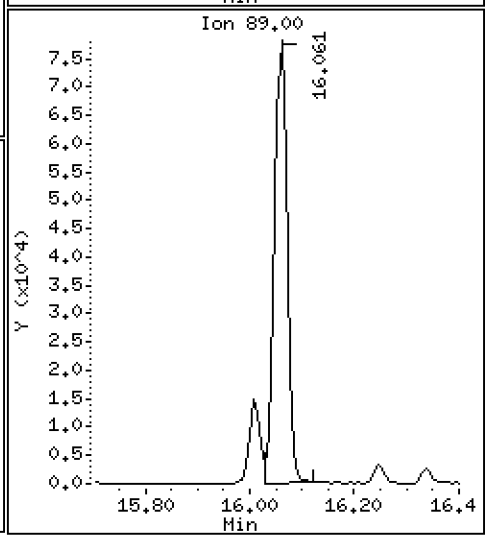












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

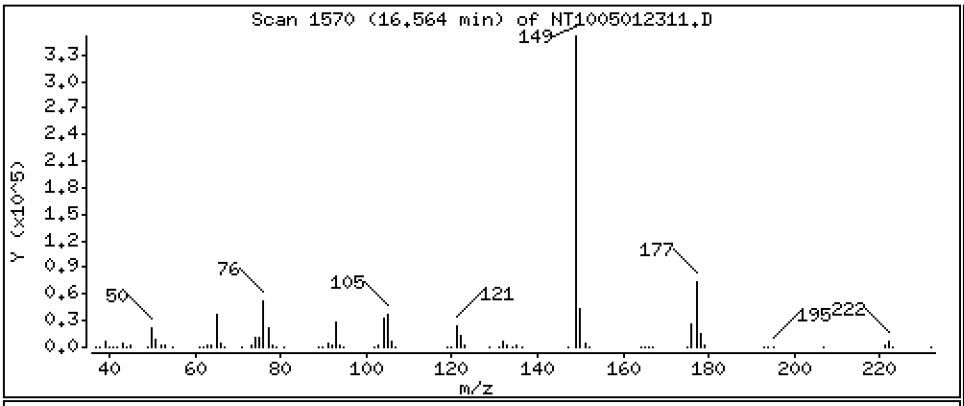
Operator: VTS

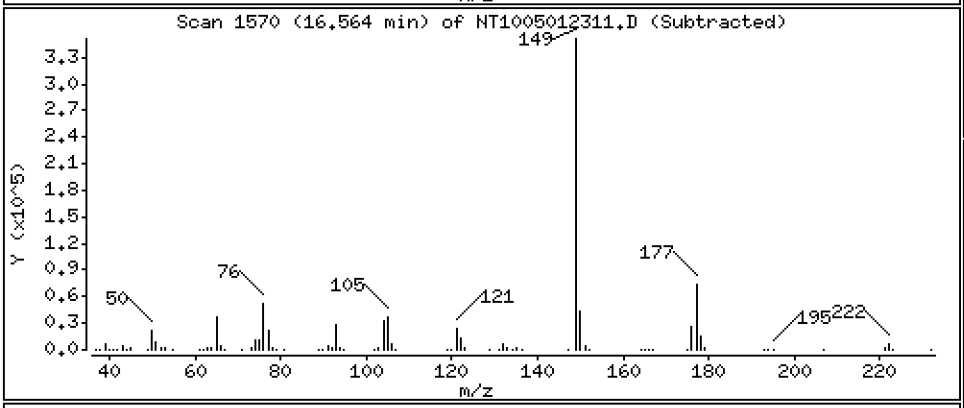
Column phase: ZB-5msi

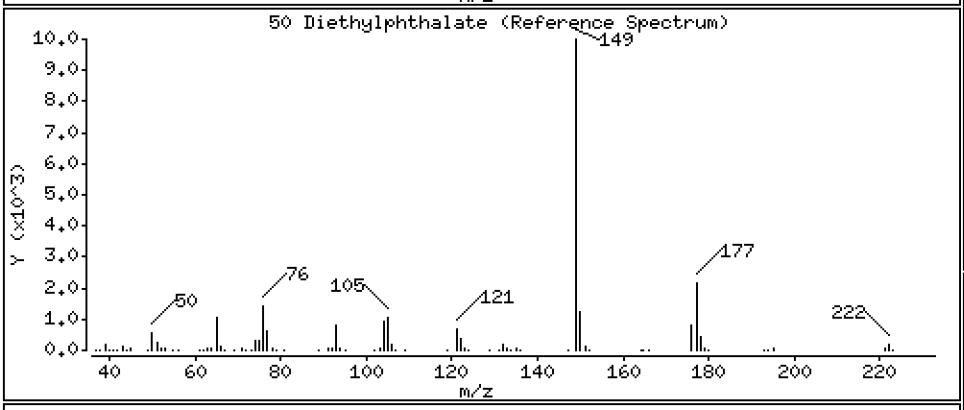
Column diameter: 0.25

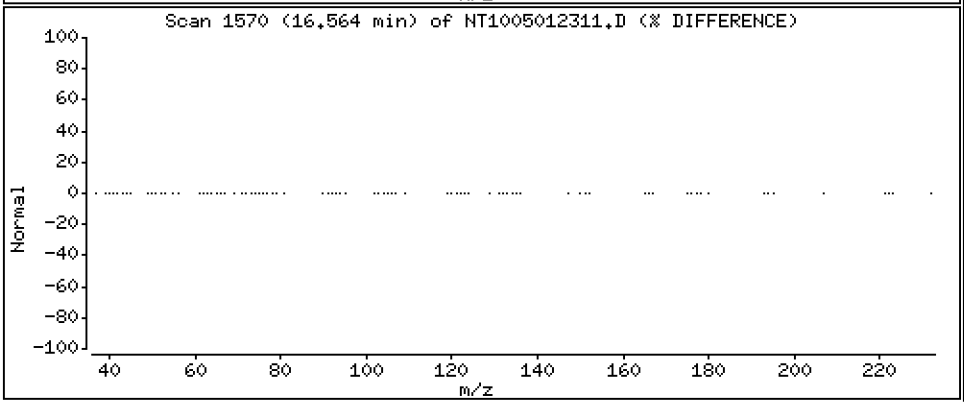
50 Diethylphthalate

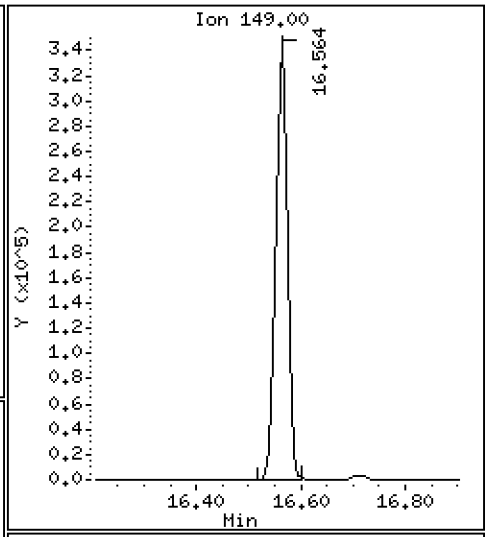
Concentration: 5.055 ug/mL

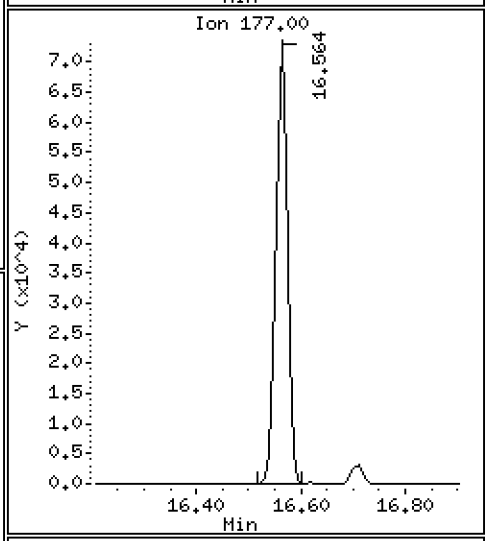


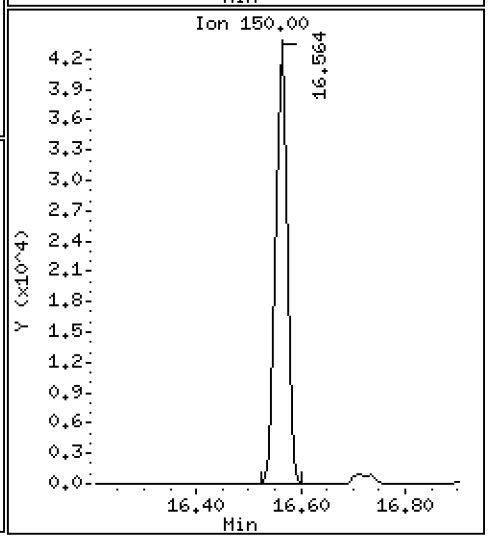












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

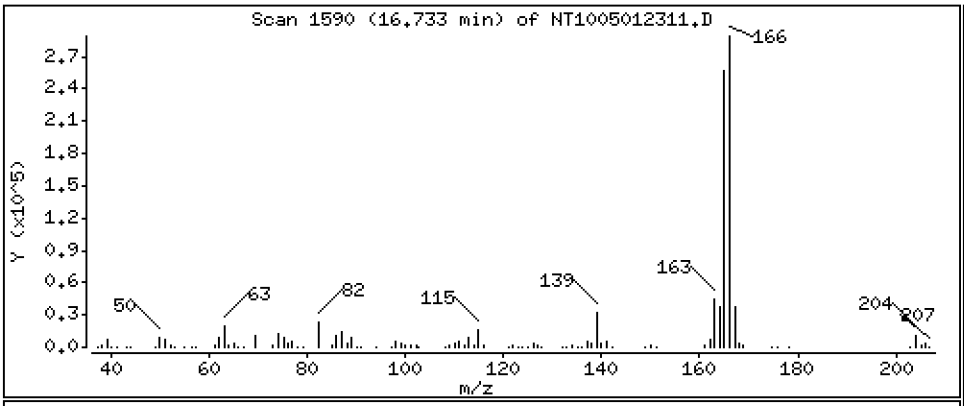
Operator: VTS

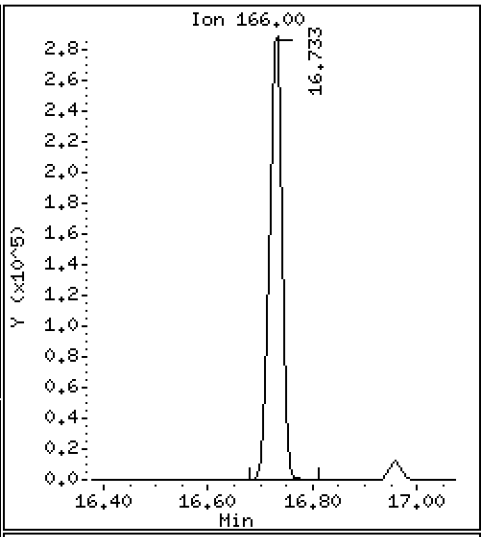
Column phase: ZB-5msi

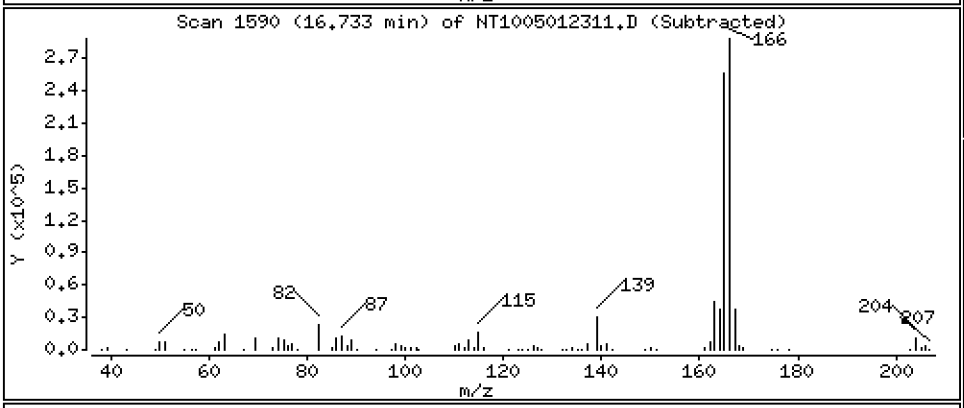
Column diameter: 0.25

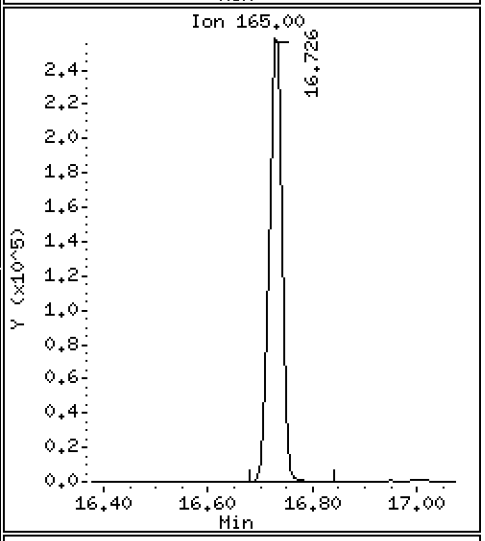
49 Fluorene

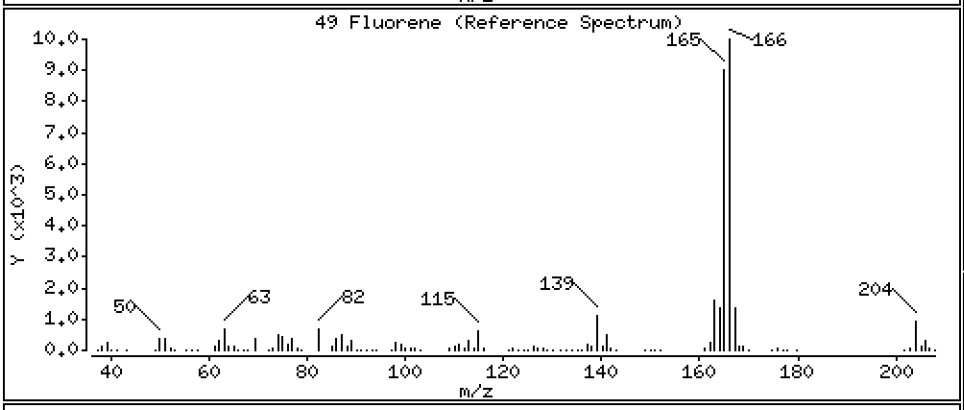
Concentration: 4.559 ug/mL

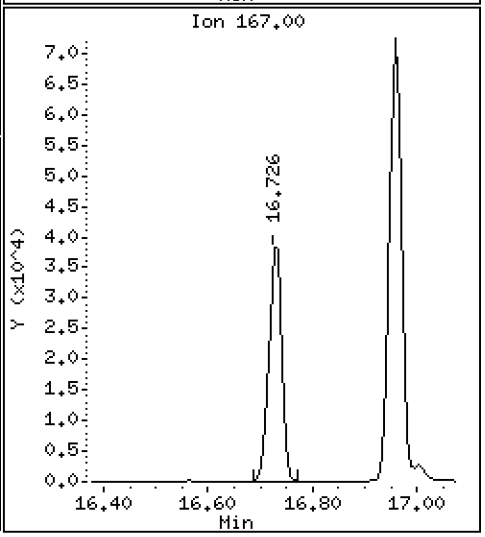


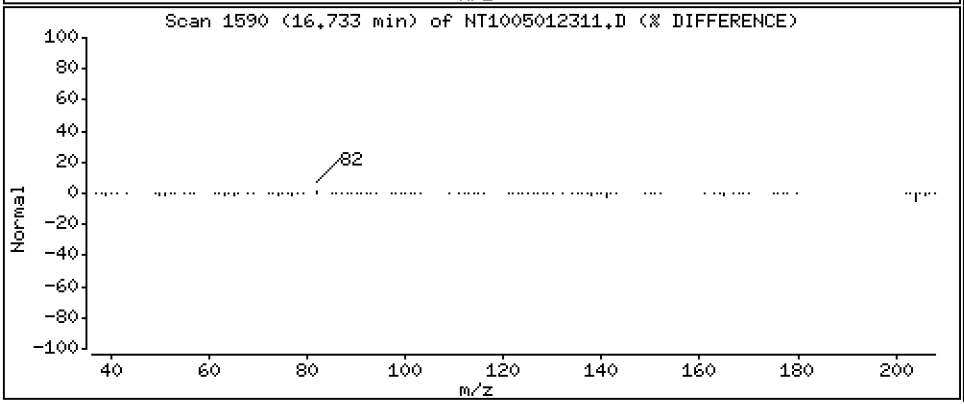












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

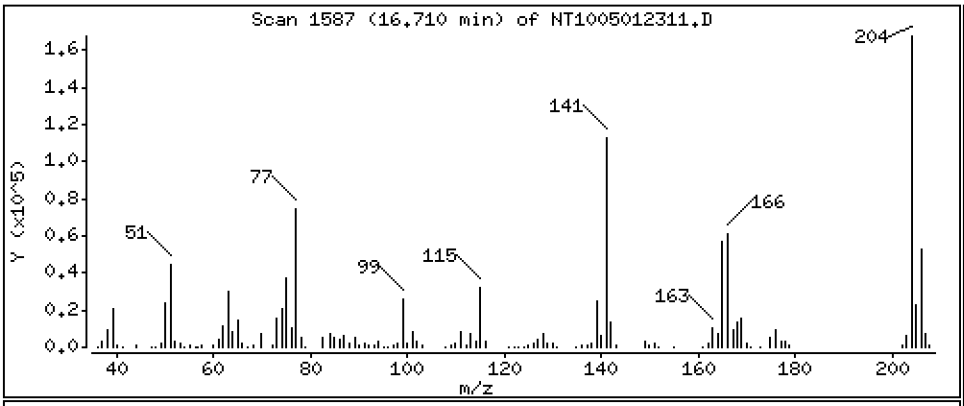
Operator: VTS

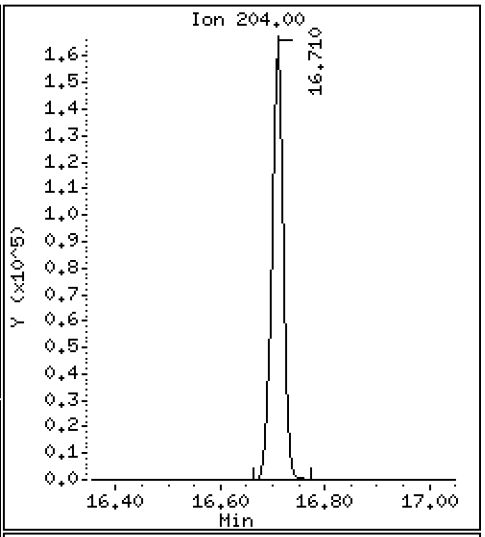
Column phase: ZB-5msi

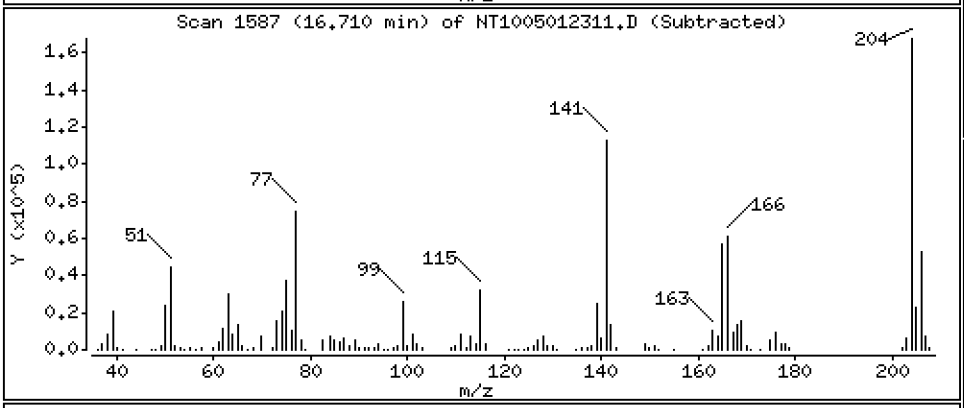
Column diameter: 0.25

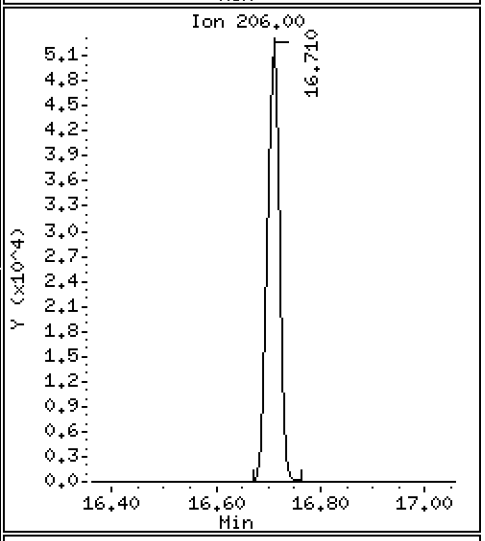
51 4-Chlorophenyl-phenylether

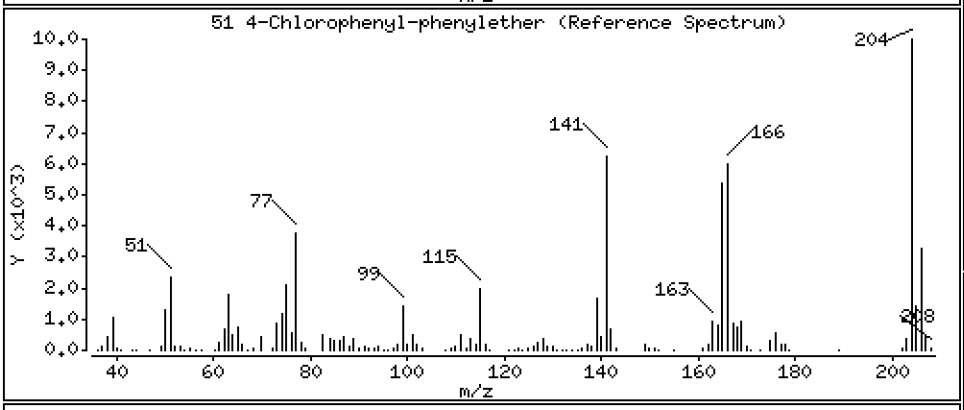
Concentration: 4.797 ug/mL

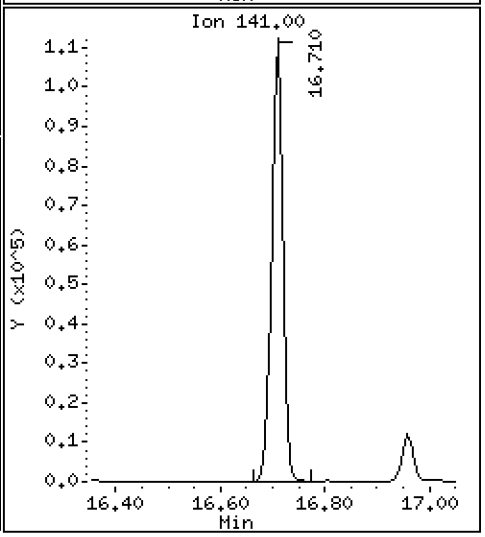


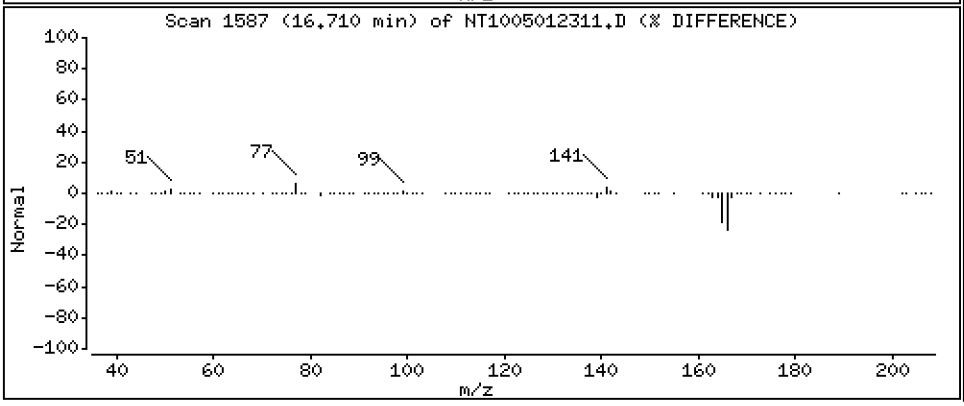












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

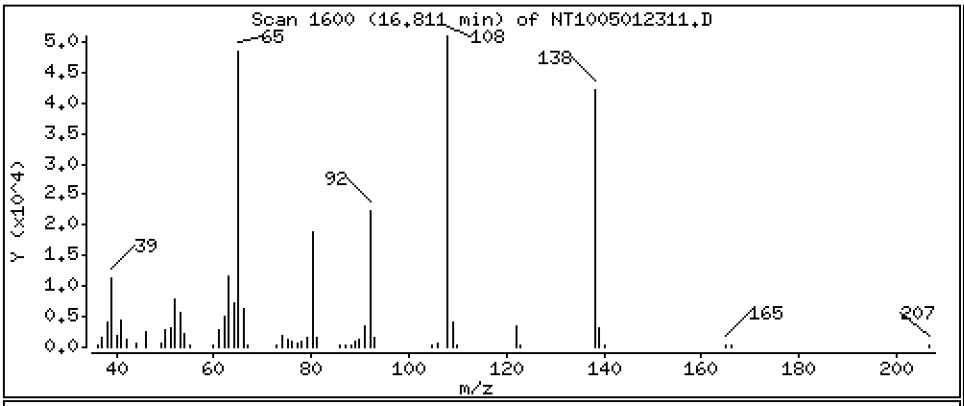
Operator: VTS

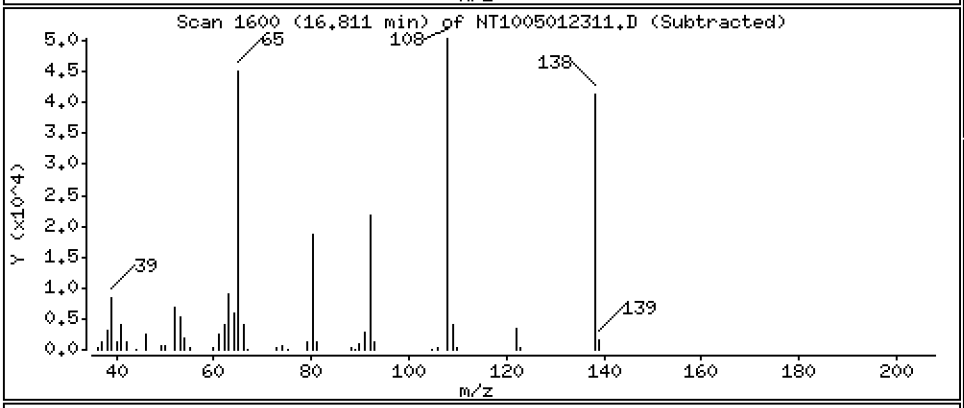
Column phase: ZB-5msi

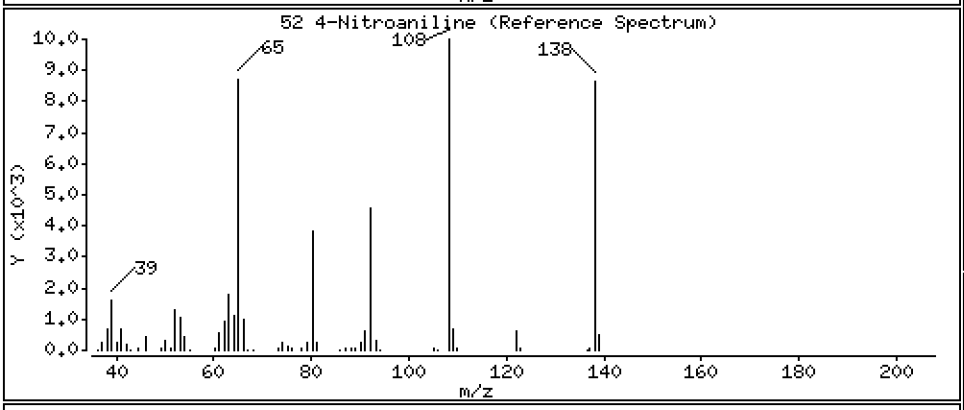
Column diameter: 0.25

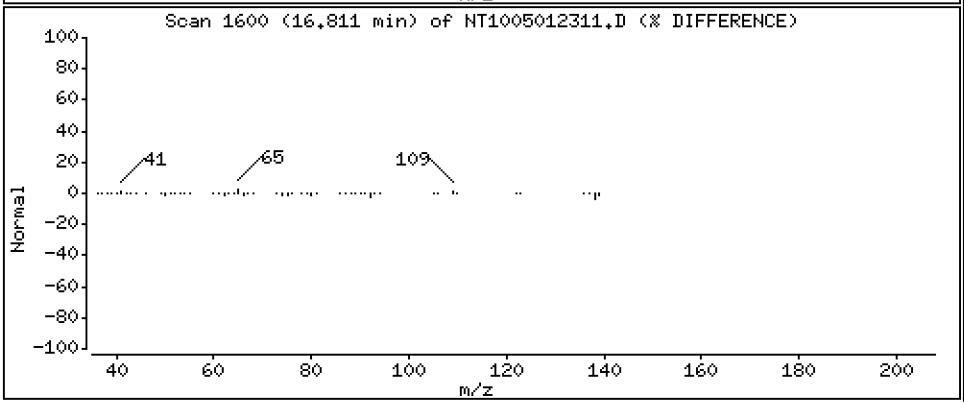
52 4-Nitroaniline

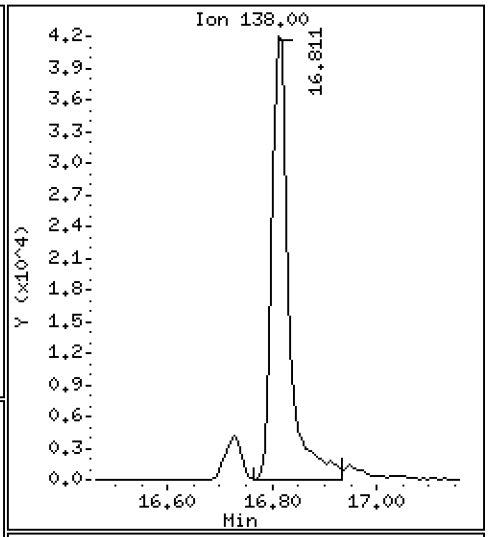
Concentration: 4.293 ug/mL

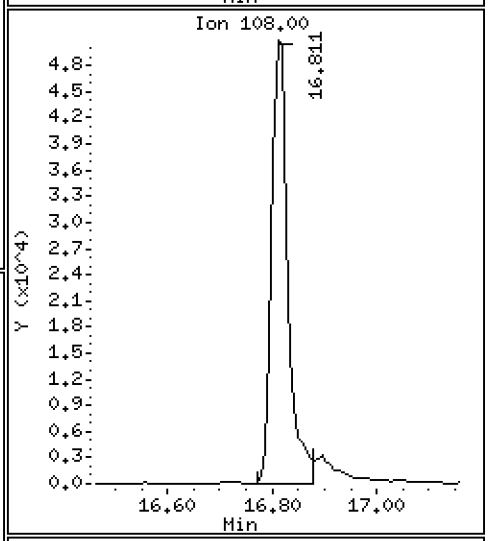


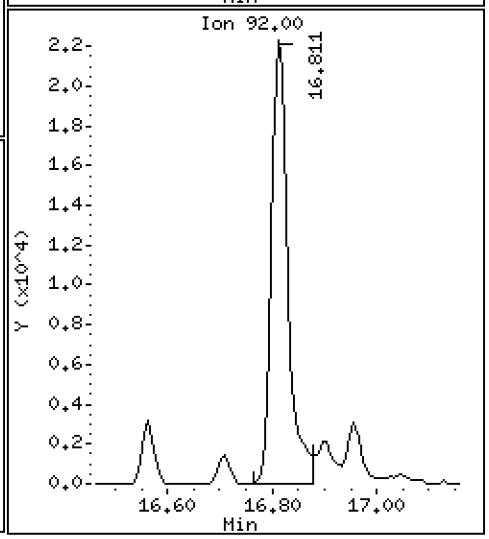












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

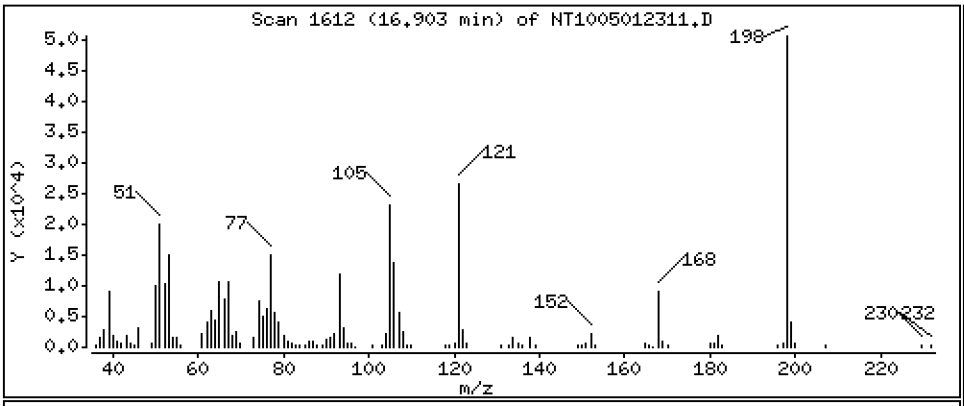
Operator: VTS

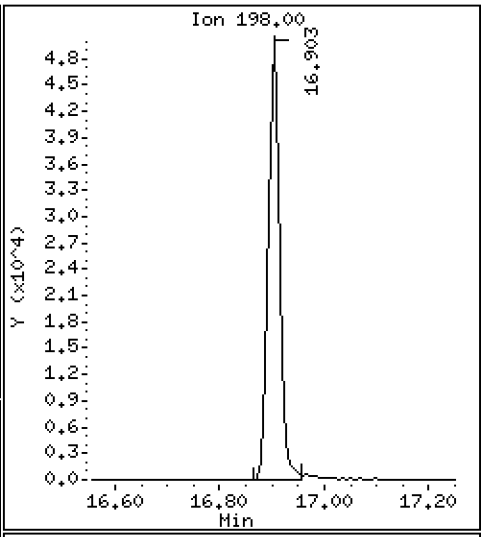
Column phase: ZB-5msi

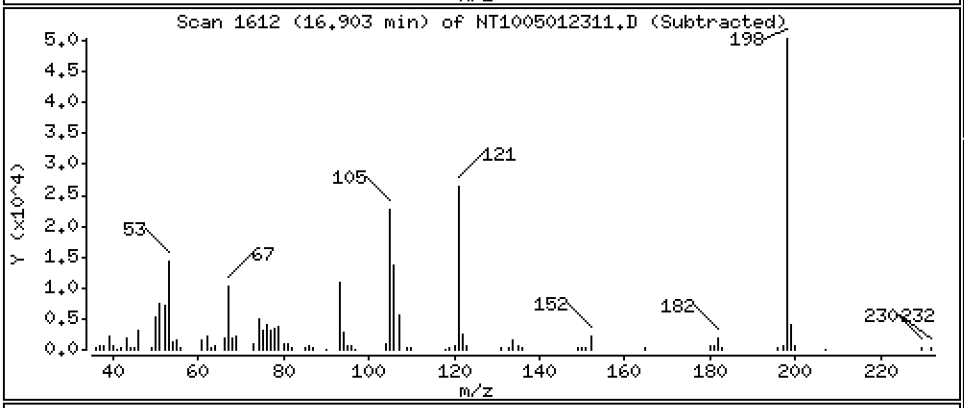
Column diameter: 0.25

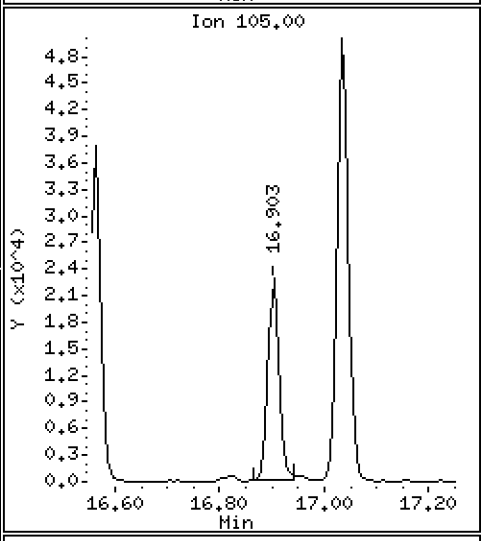
53 4,6-Dinitro-2-methylphenol

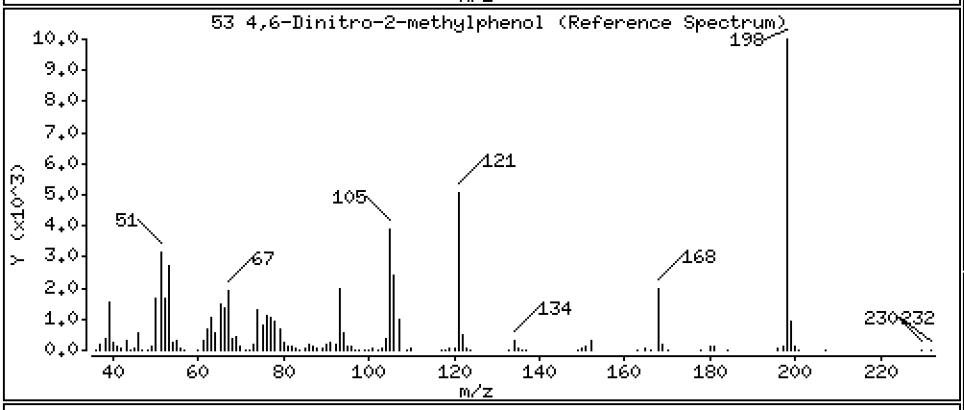
Concentration: 3.760 ug/mL

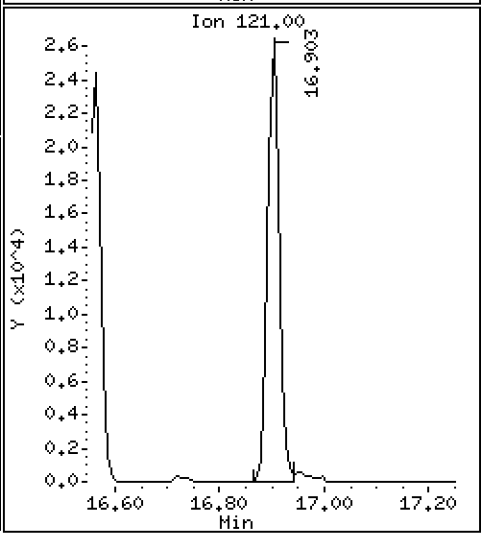


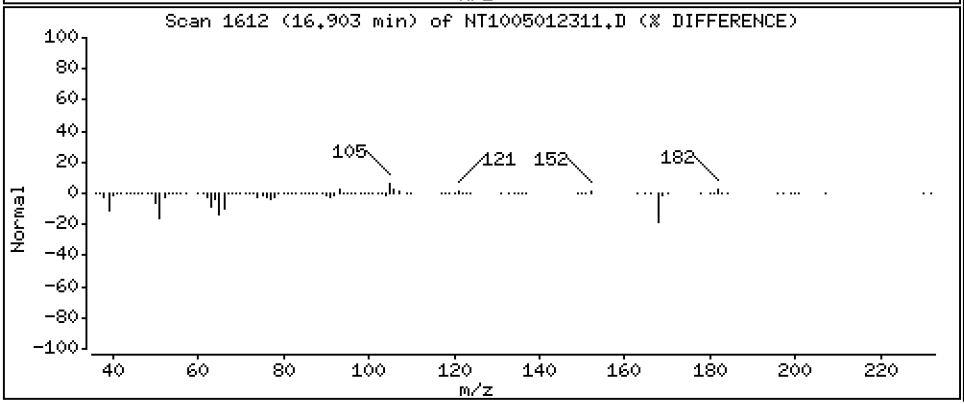












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

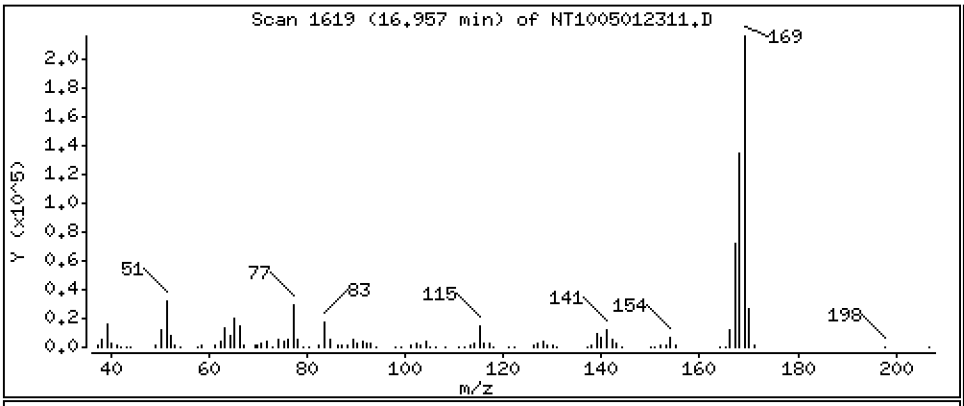
Operator: VTS

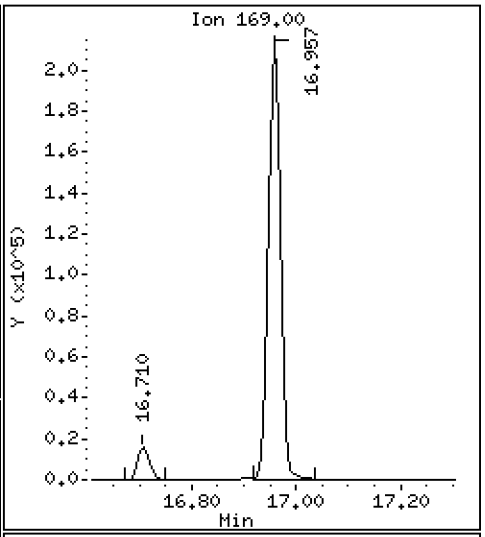
Column phase: ZB-5msi

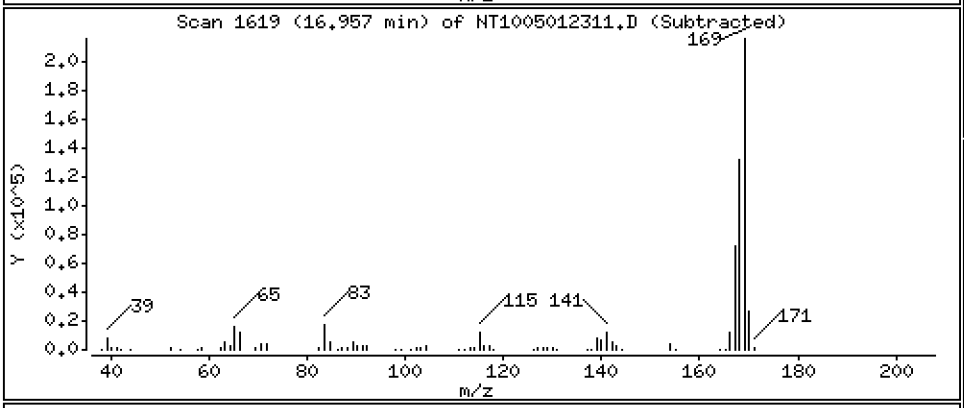
Column diameter: 0.25

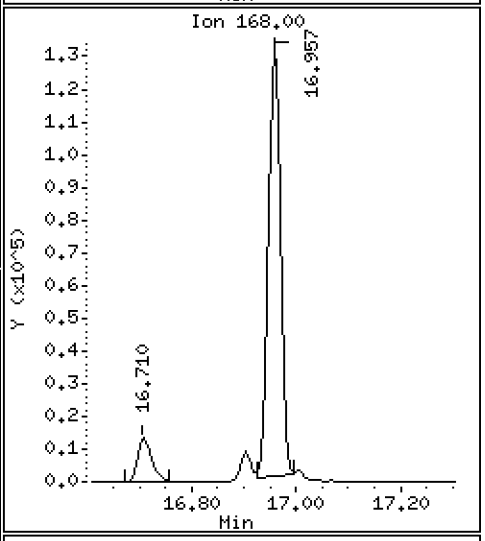
54 N-Nitrosodiphenylamine

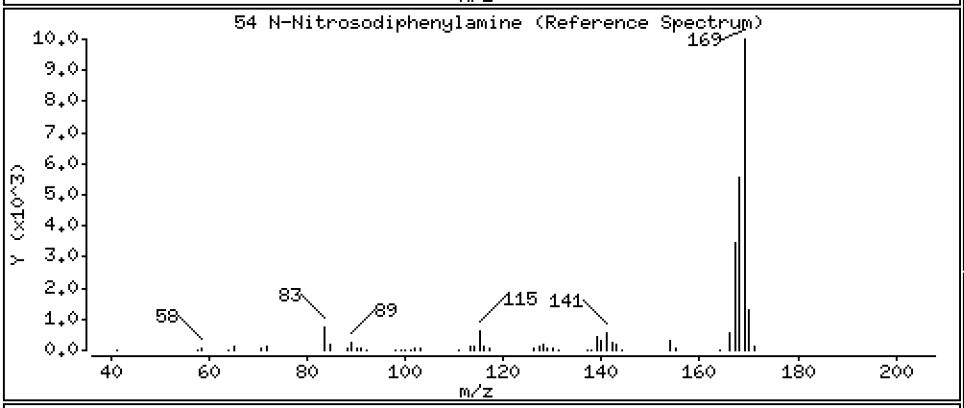
Concentration: 5.125 ug/mL

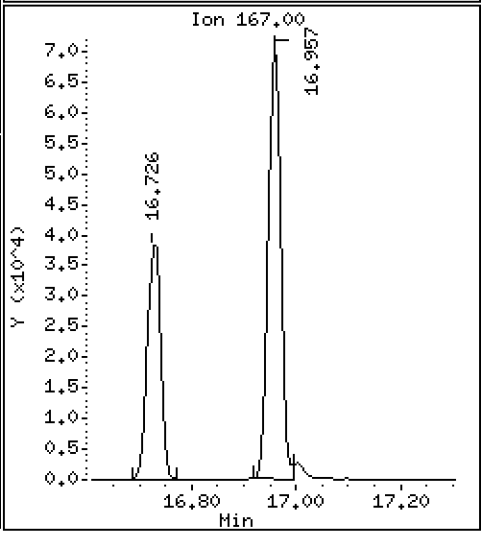


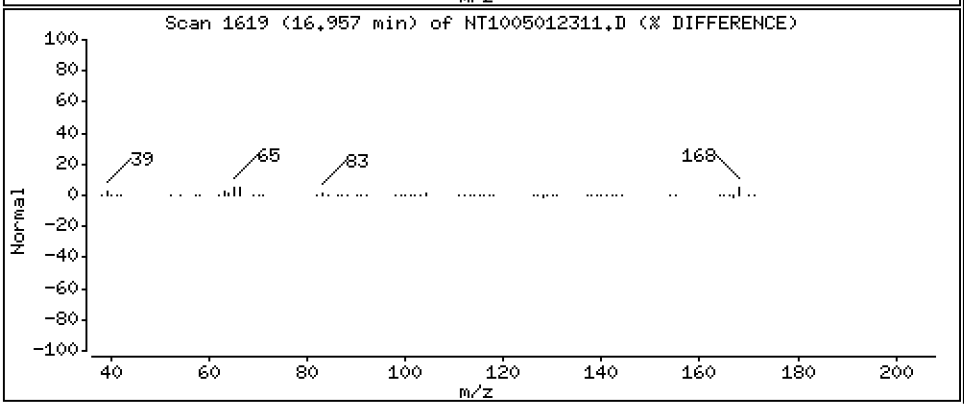












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

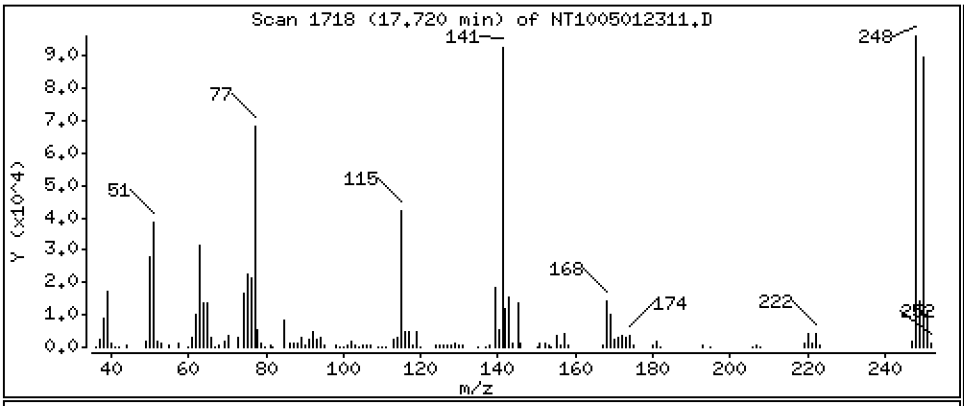
Operator: VTS

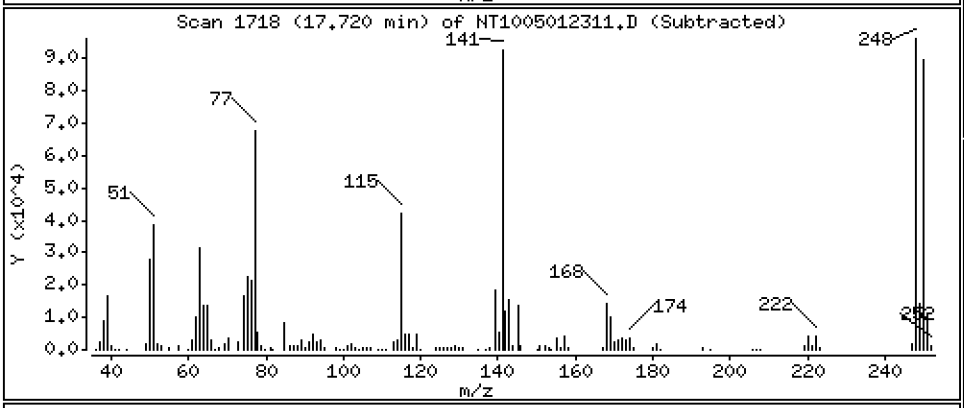
Column phase: ZB-5msi

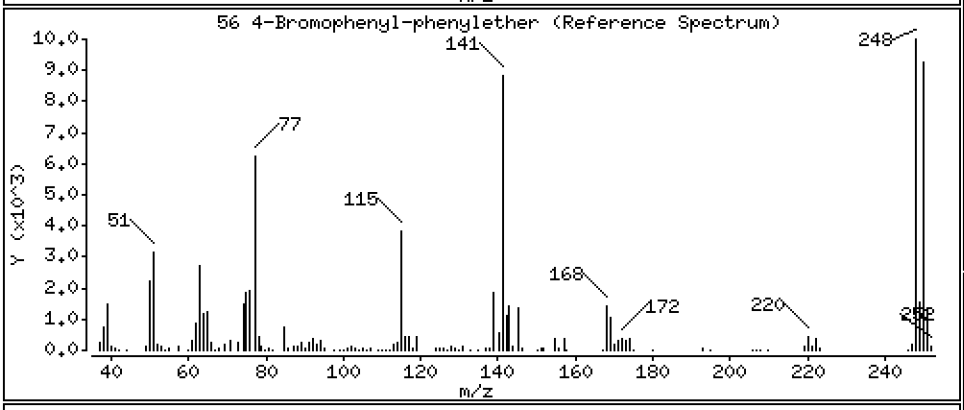
Column diameter: 0.25

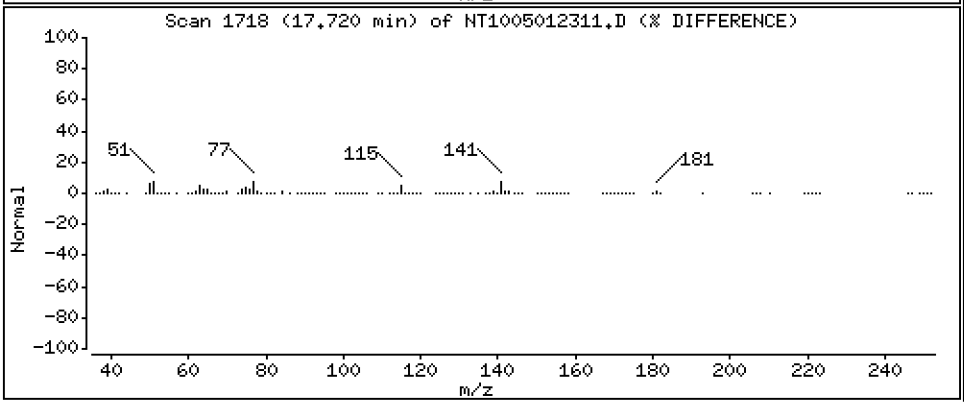
56 4-Bromophenyl-phenylether

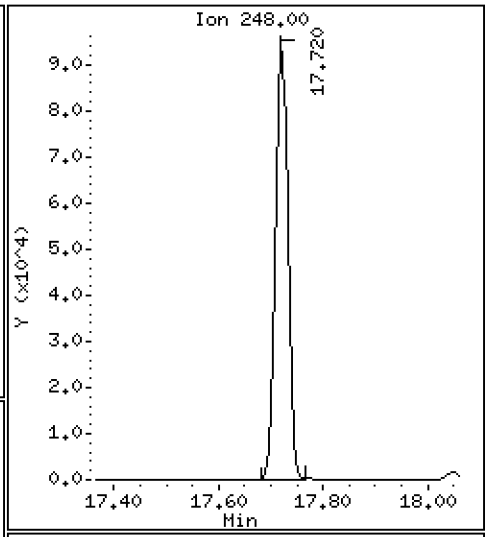
Concentration: 4.942 ug/mL

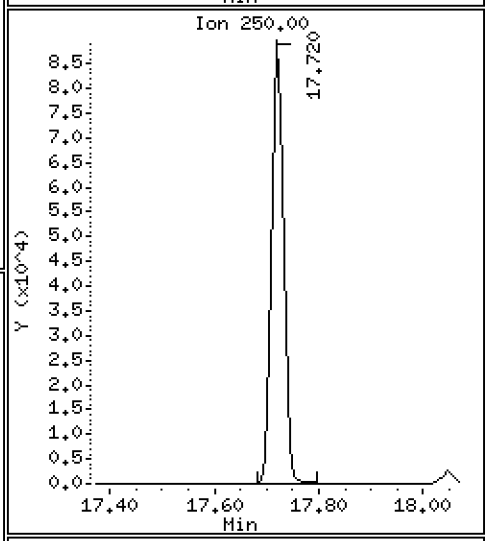


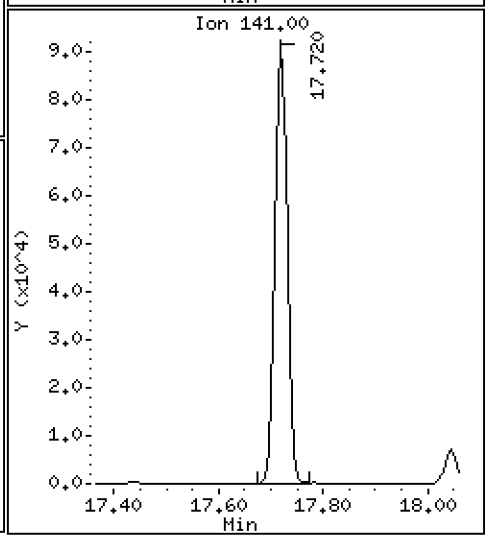












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

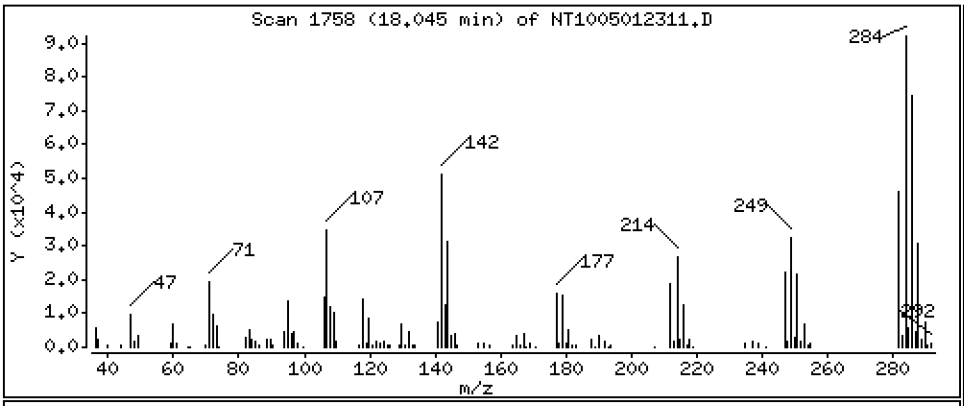
Operator: VTS

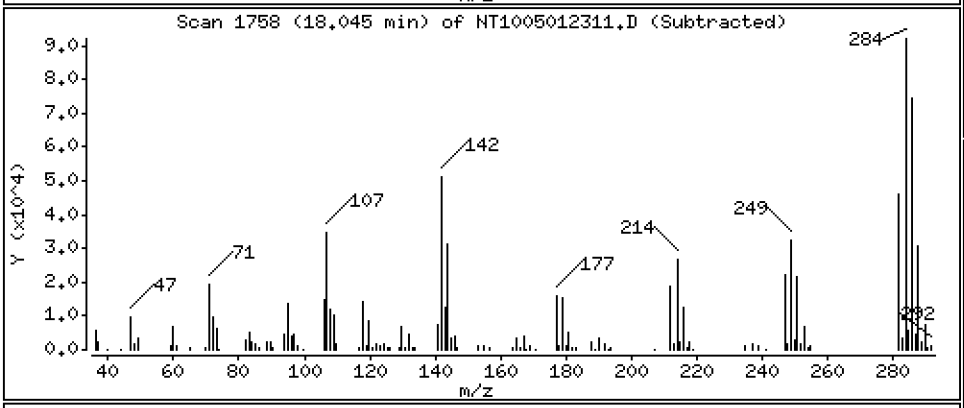
Column phase: ZB-5msi

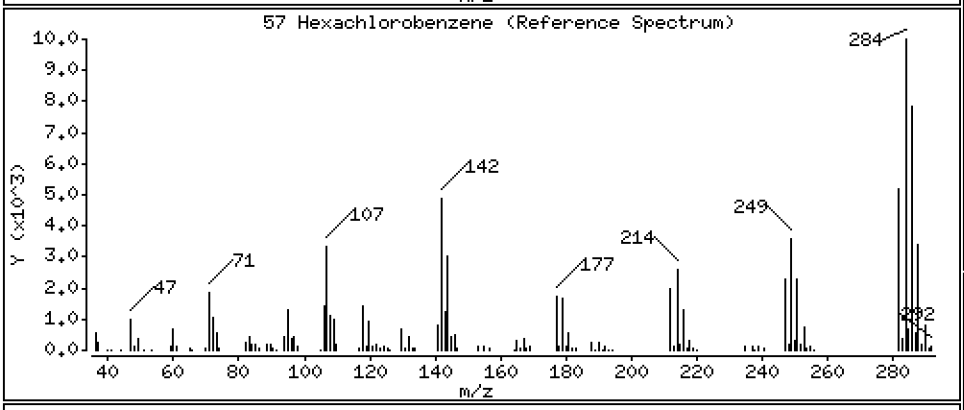
Column diameter: 0.25

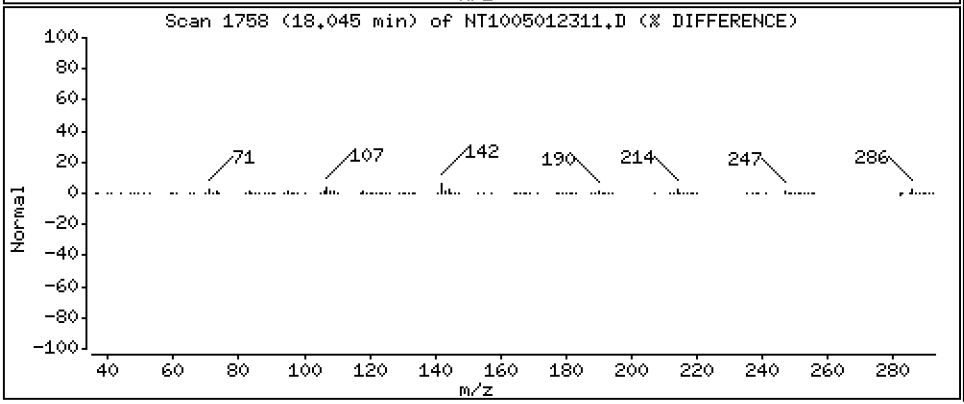
57 Hexachlorobenzene

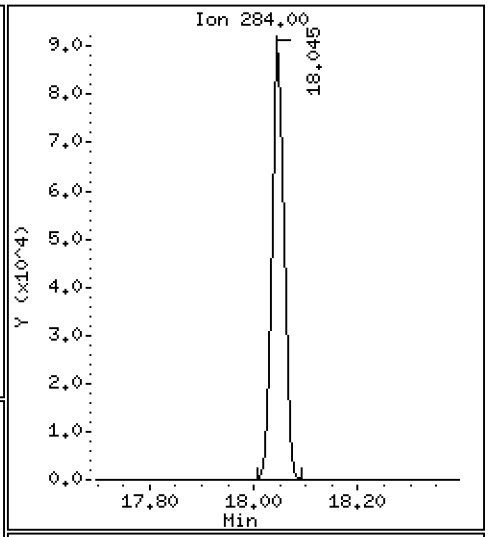
Concentration: 4.689 ug/mL

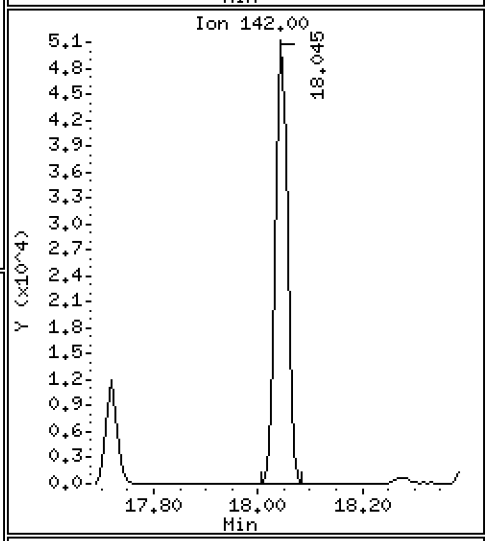


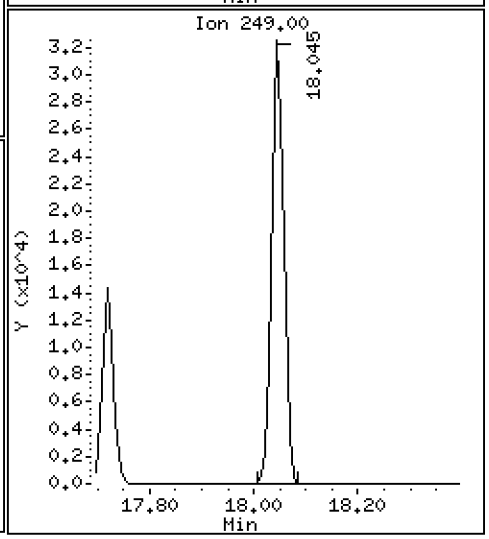












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

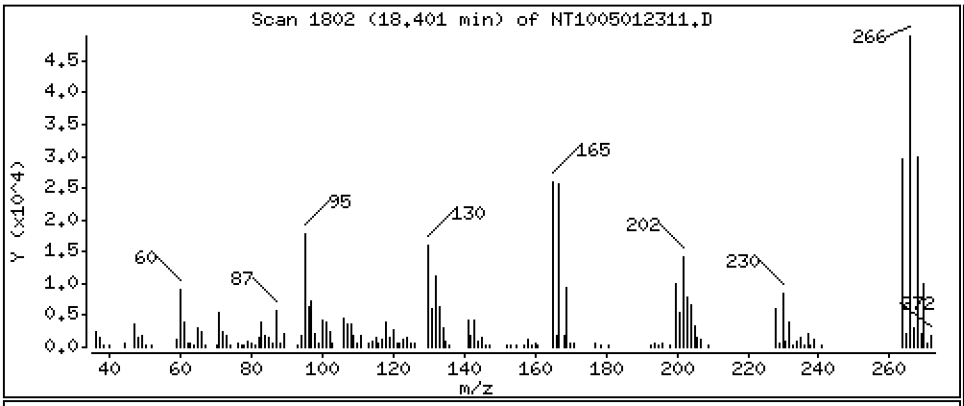
Operator: VTS

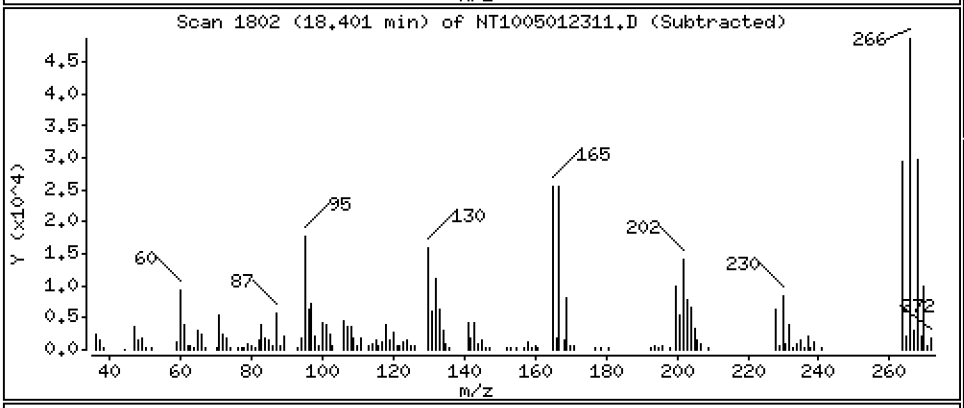
Column phase: ZB-5msi

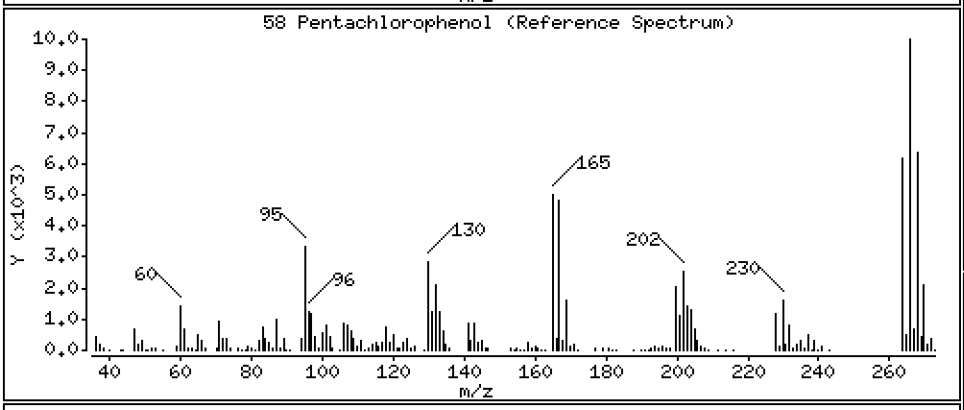
Column diameter: 0.25

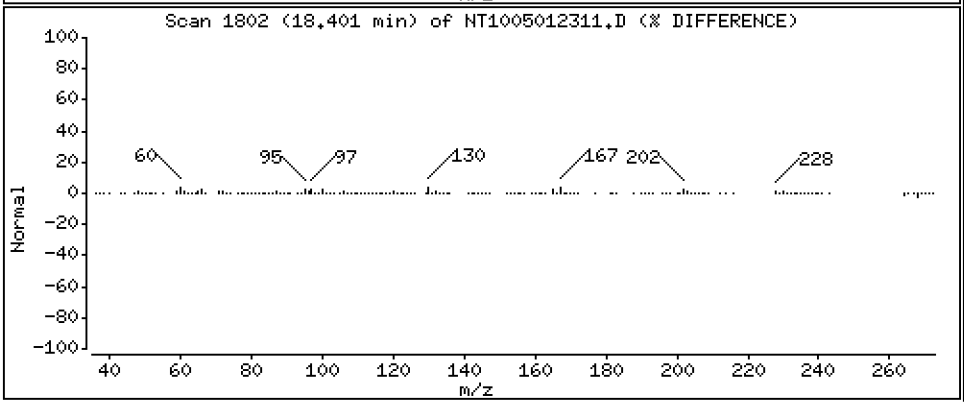
58 Pentachlorophenol

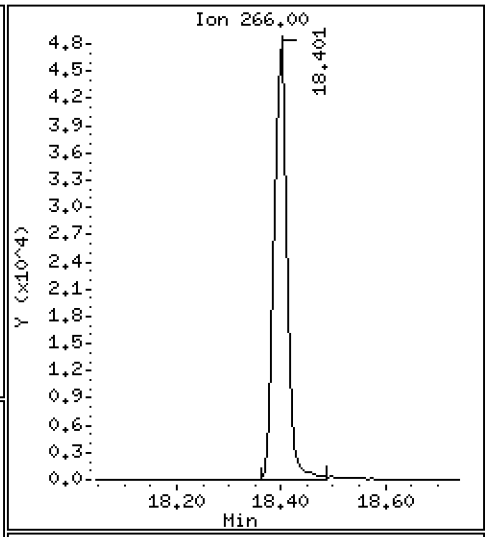
Concentration: 3.866 ug/mL

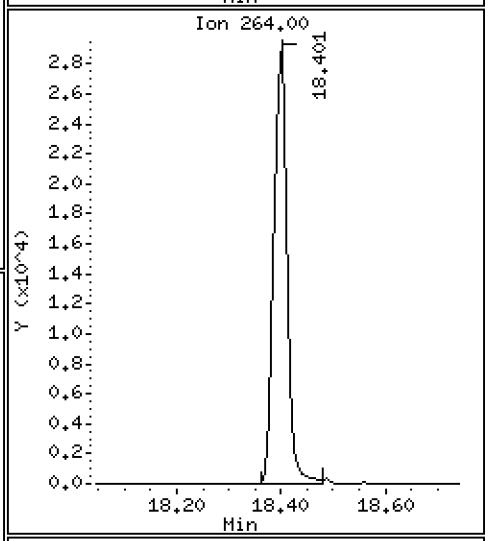


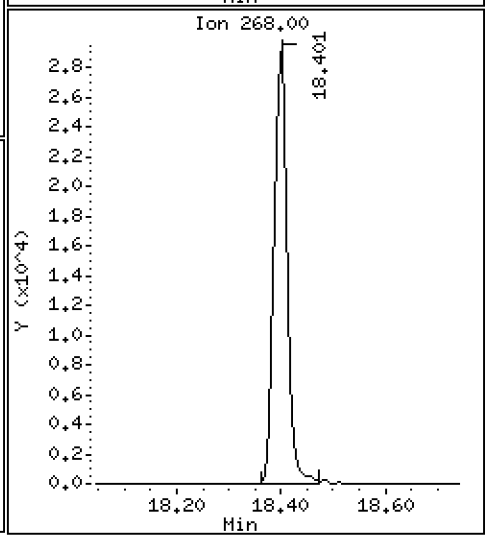












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

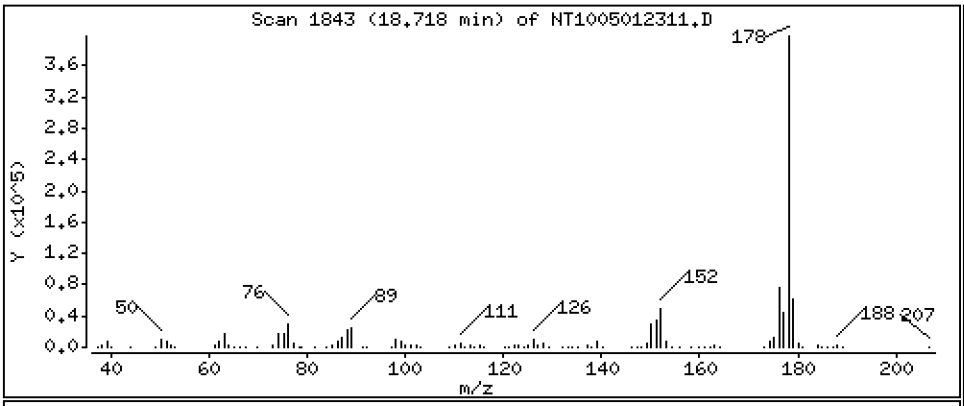
Operator: VTS

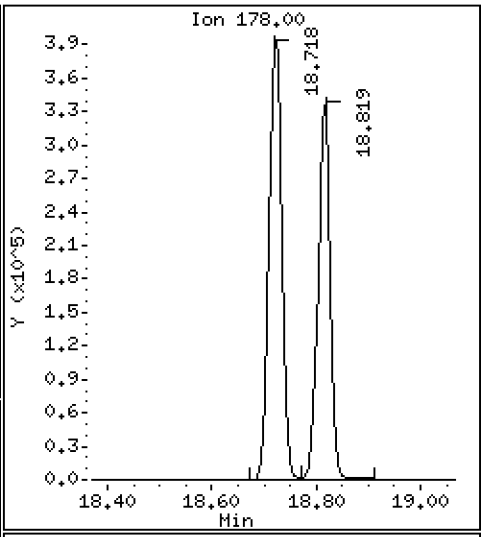
Column phase: ZB-5msi

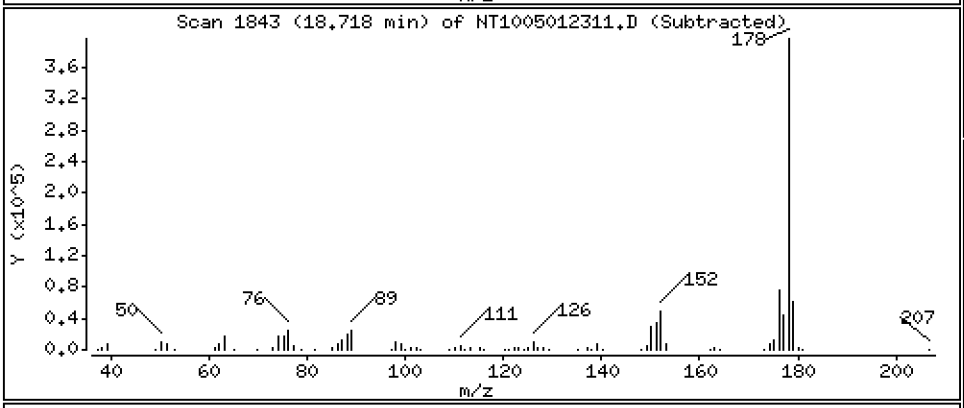
Column diameter: 0.25

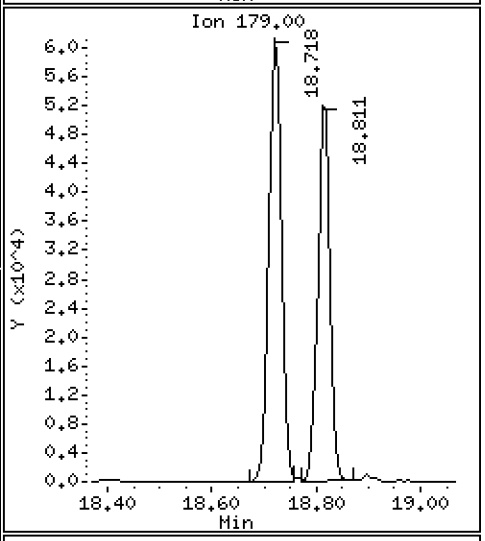
60 Phenanthrene

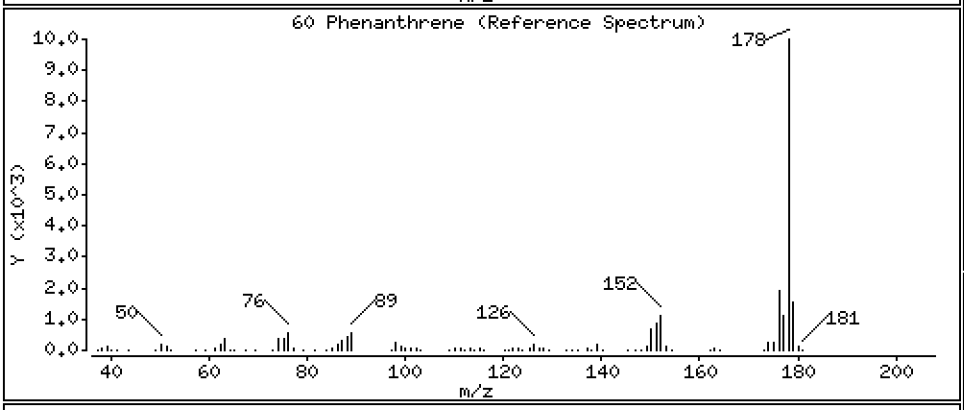
Concentration: 4.586 ug/mL

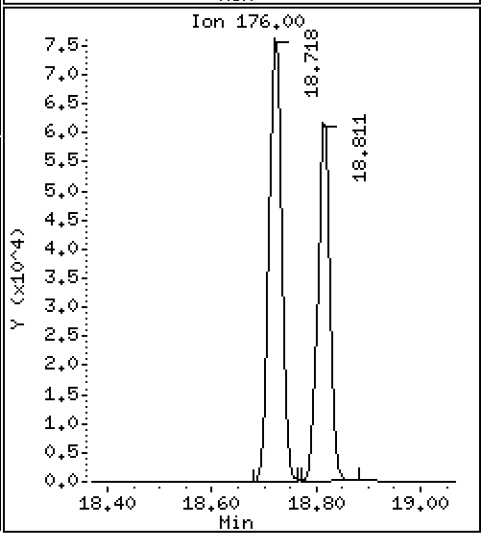


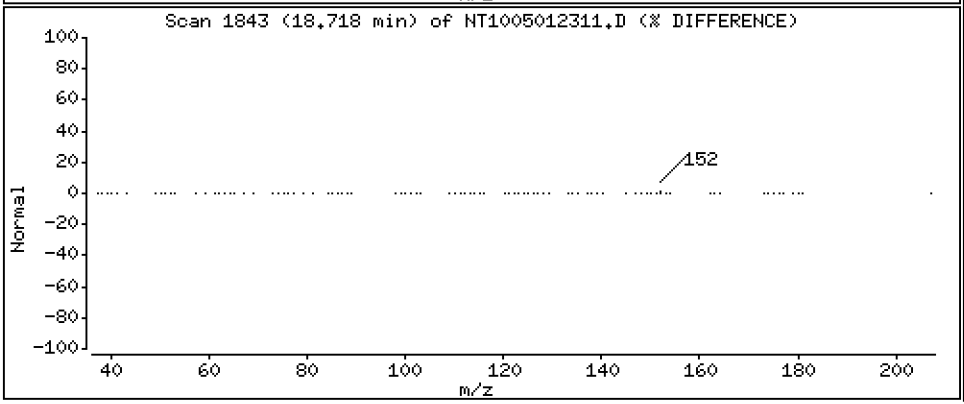












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

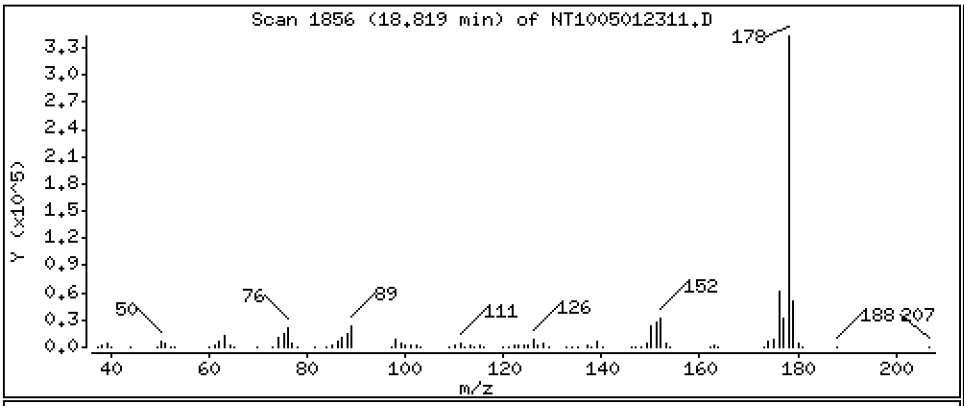
Operator: VTS

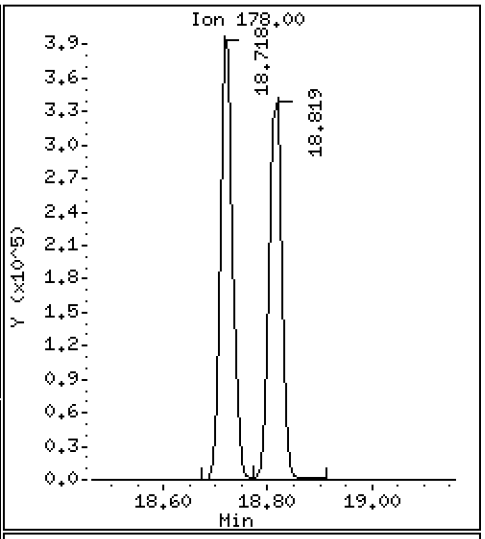
Column phase: ZB-5msi

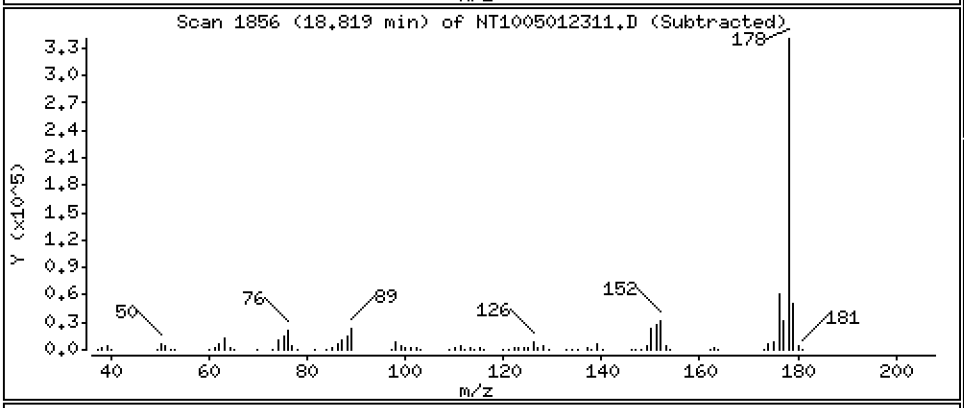
Column diameter: 0.25

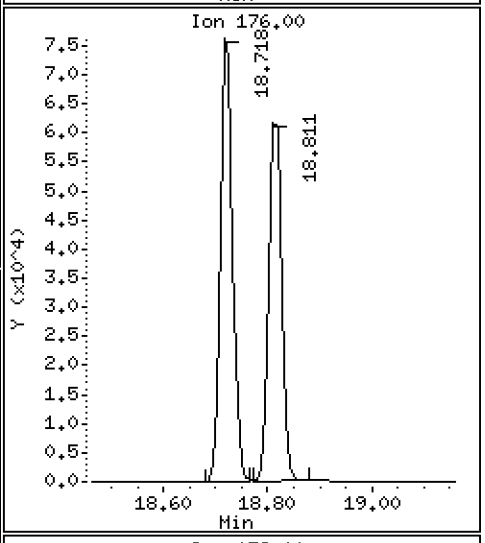
61 Anthracene

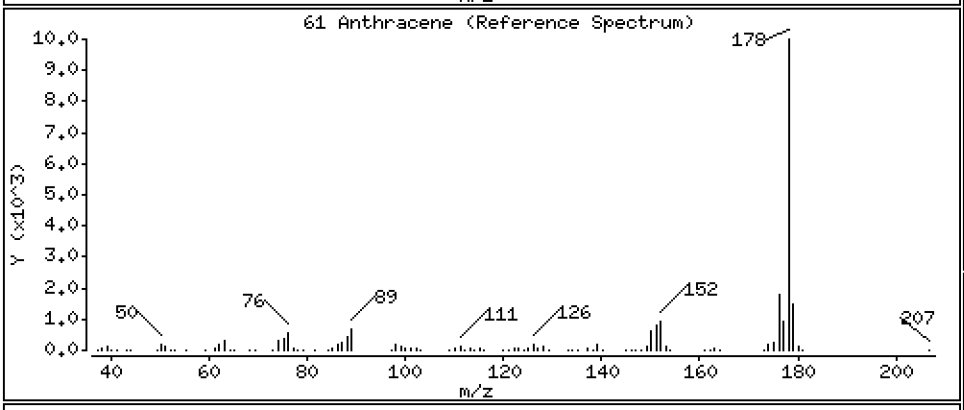
Concentration: 4.169 ug/mL

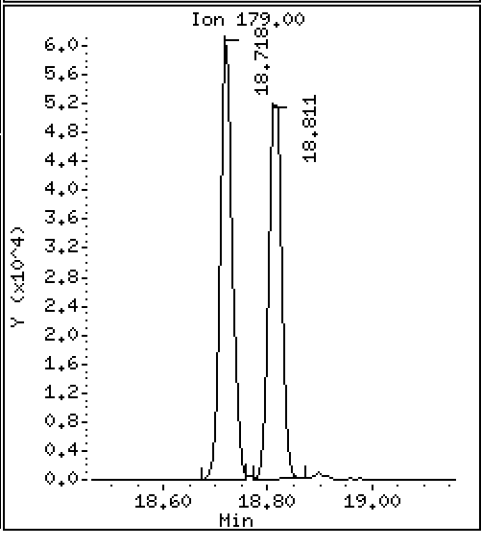


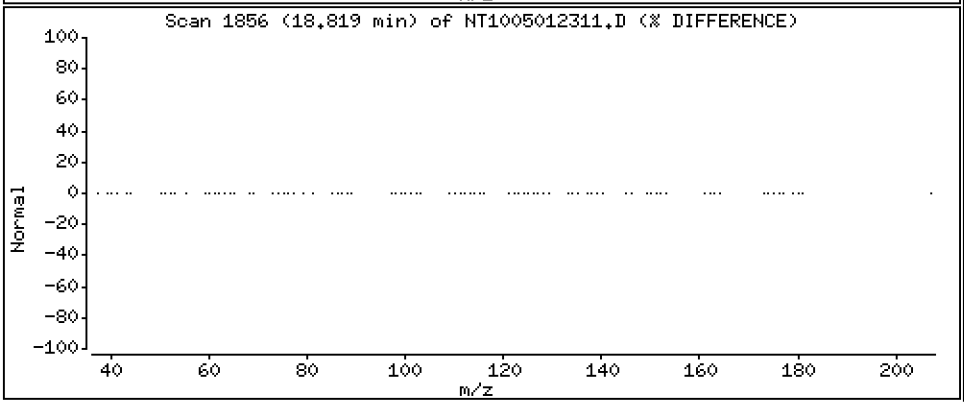












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

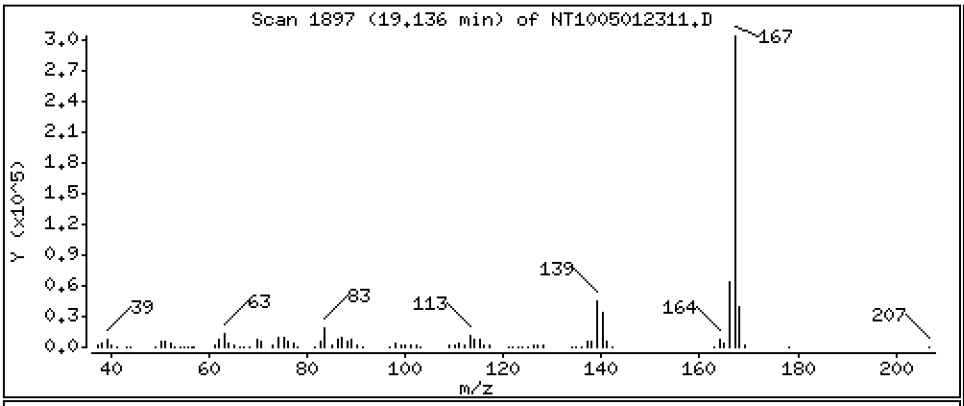
Operator: VTS

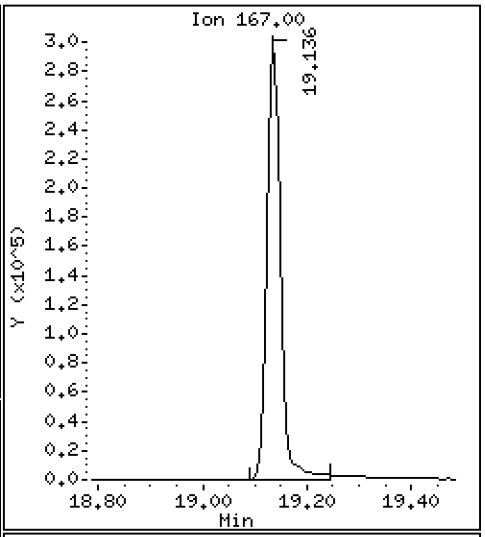
Column phase: ZB-5msi

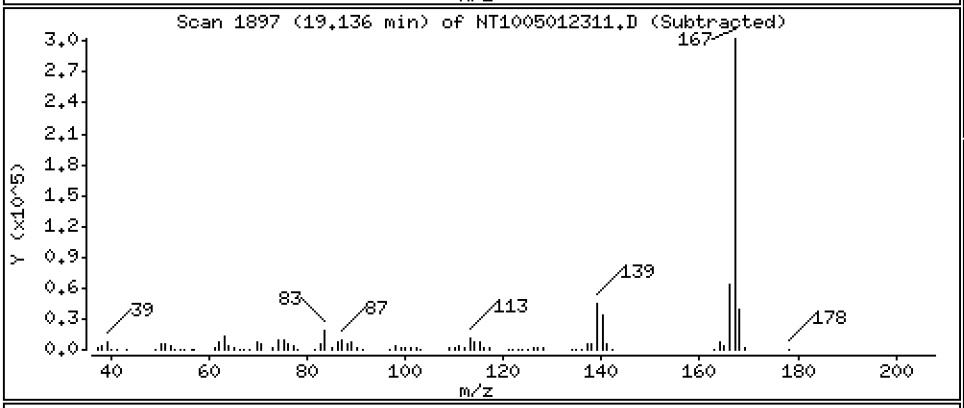
Column diameter: 0.25

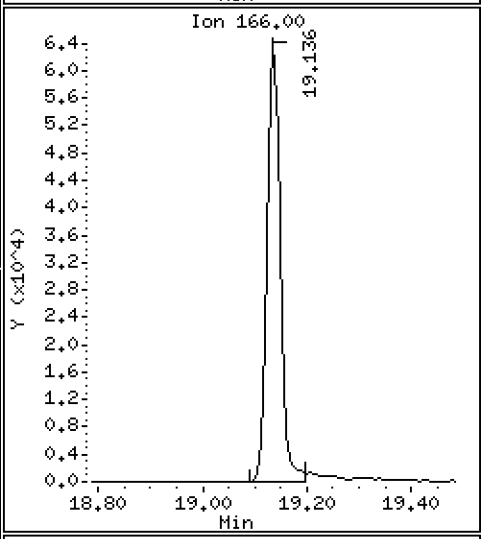
62 Carbazole

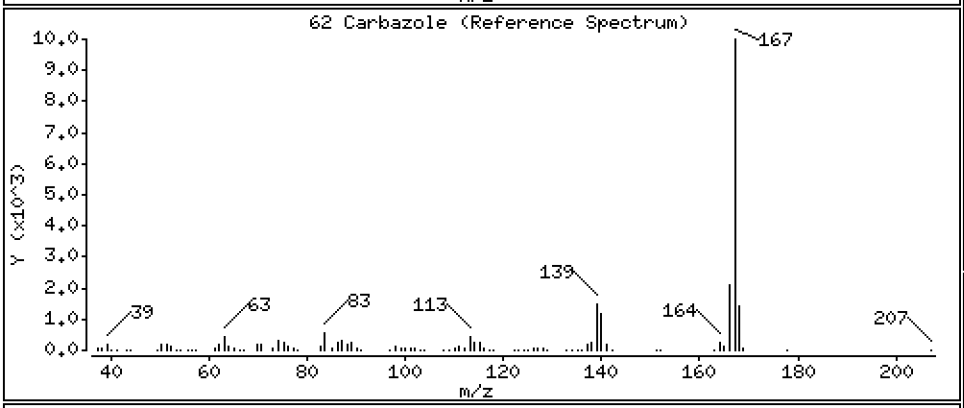
Concentration: 4.503 ug/mL

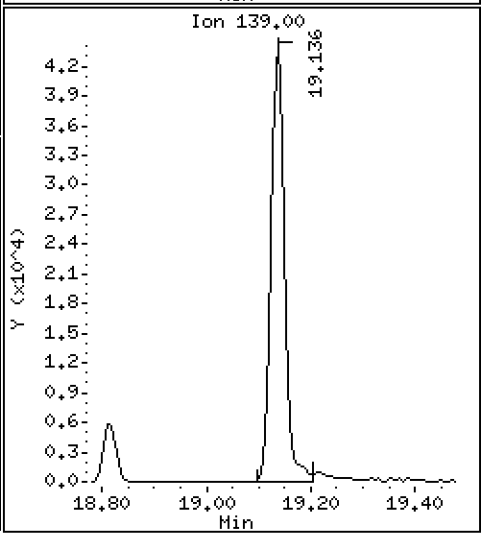


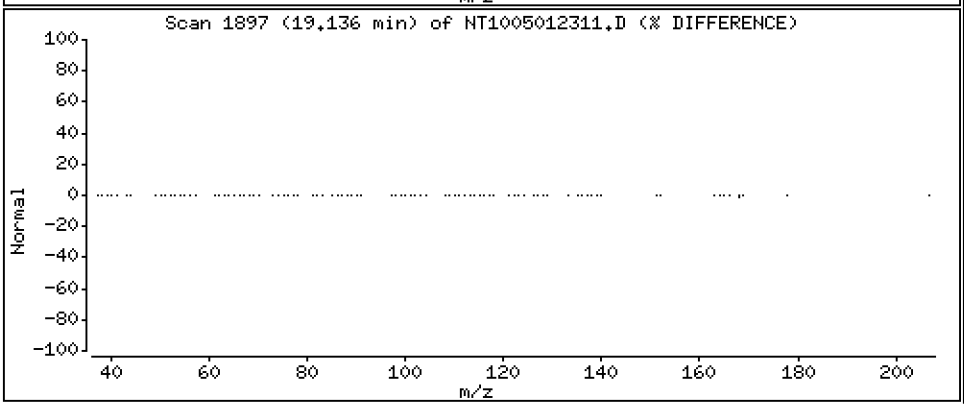












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

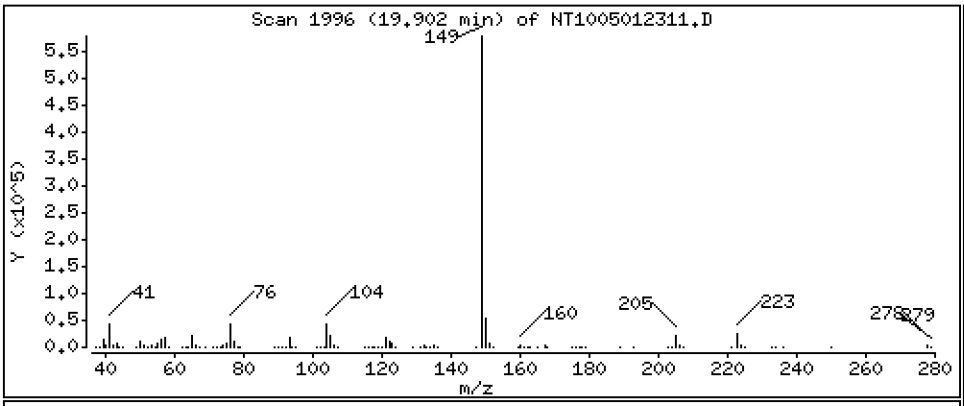
Operator: VTS

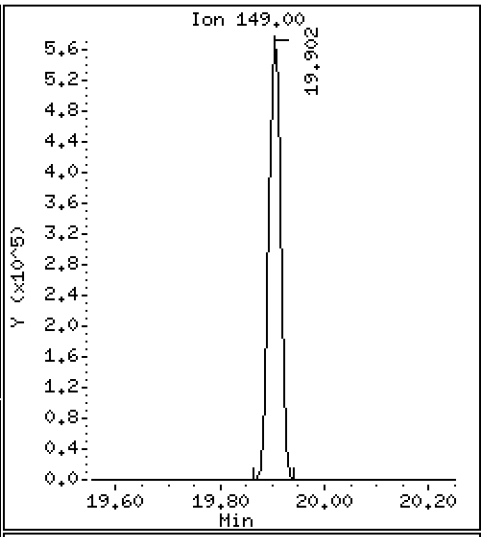
Column phase: ZB-5msi

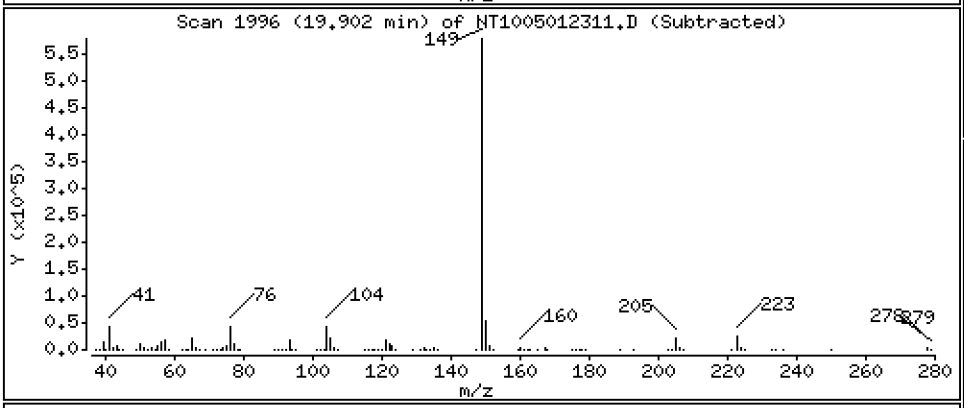
Column diameter: 0.25

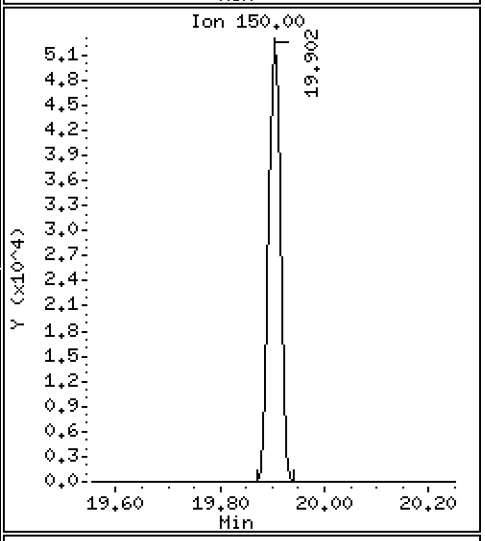
63 Di-n-butylphthalate

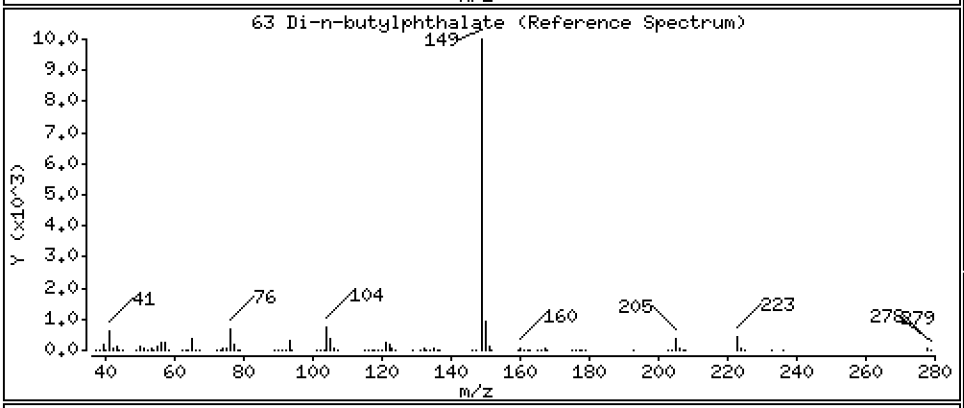
Concentration: 4.895 ug/mL

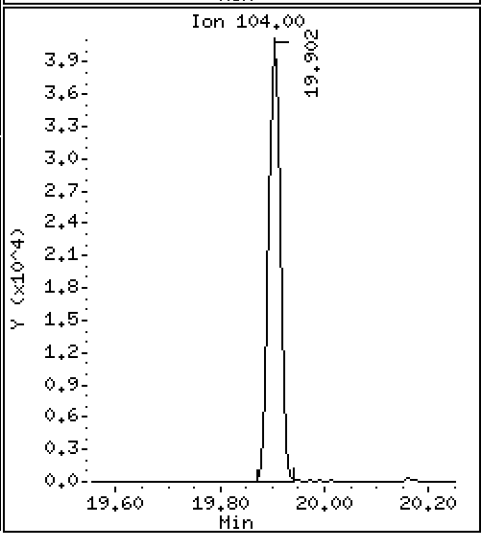


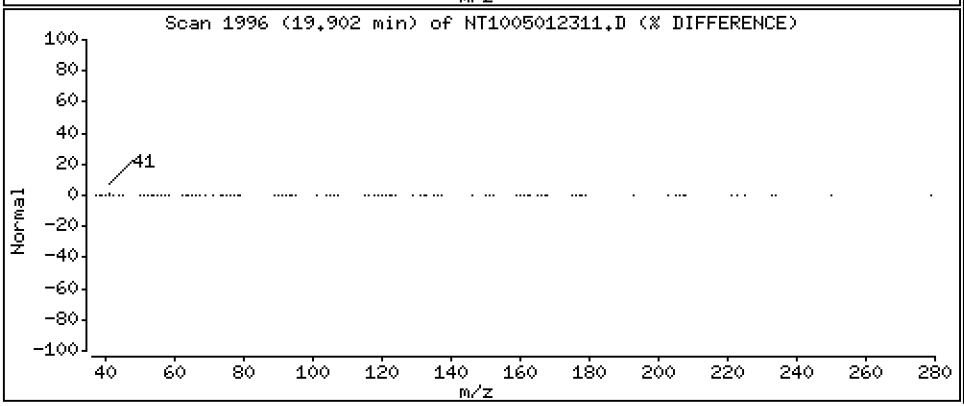












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

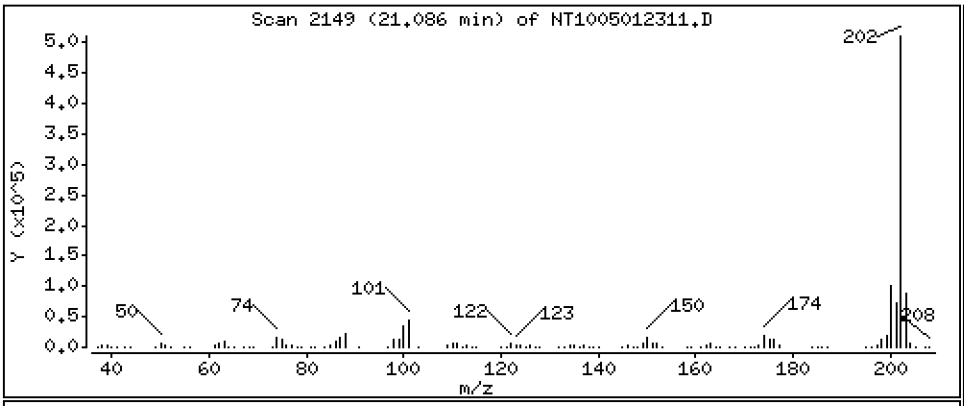
Operator: VTS

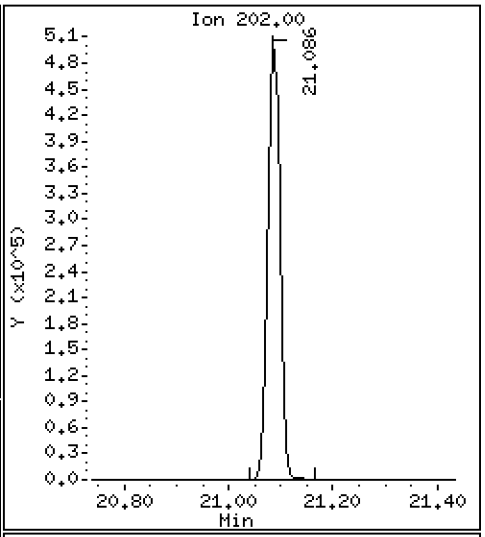
Column phase: ZB-5msi

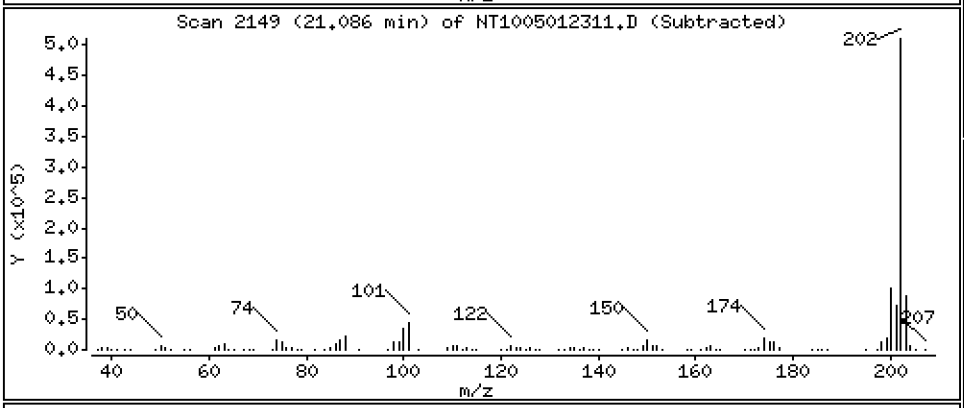
Column diameter: 0.25

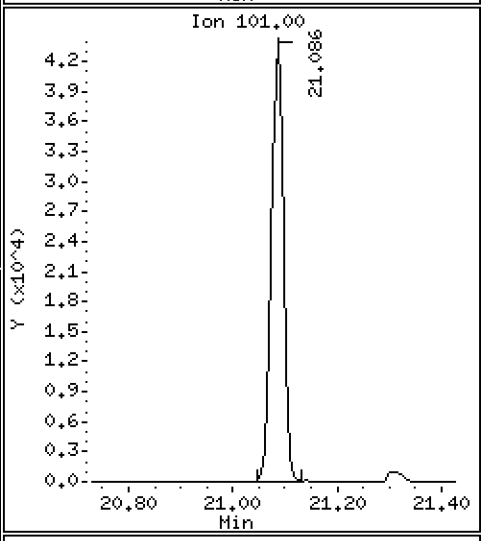
64 Fluoranthene

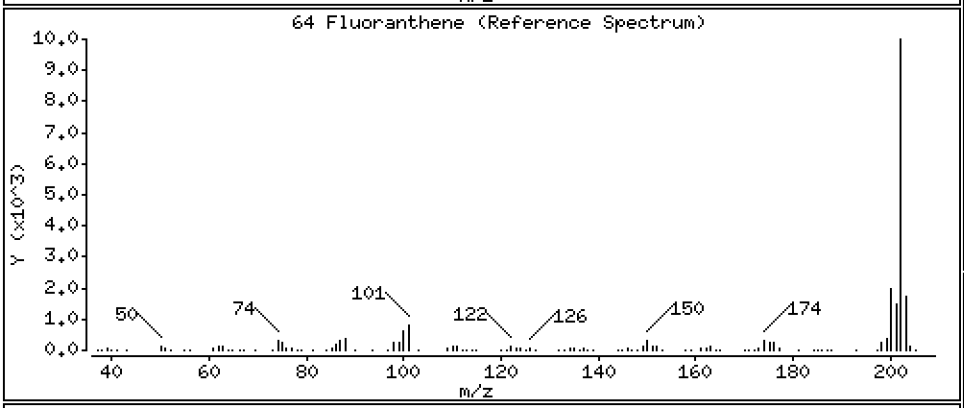
Concentration: 4.738 ug/mL

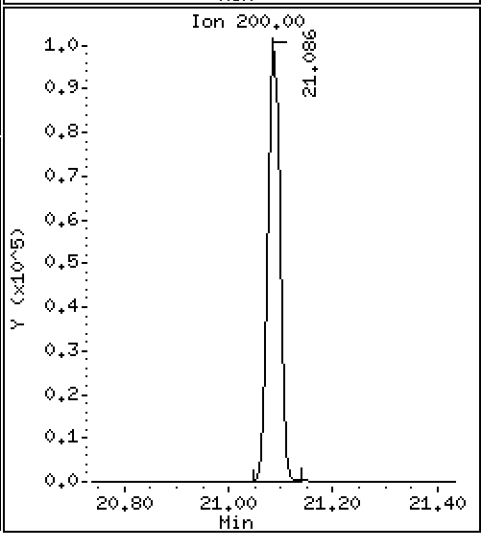


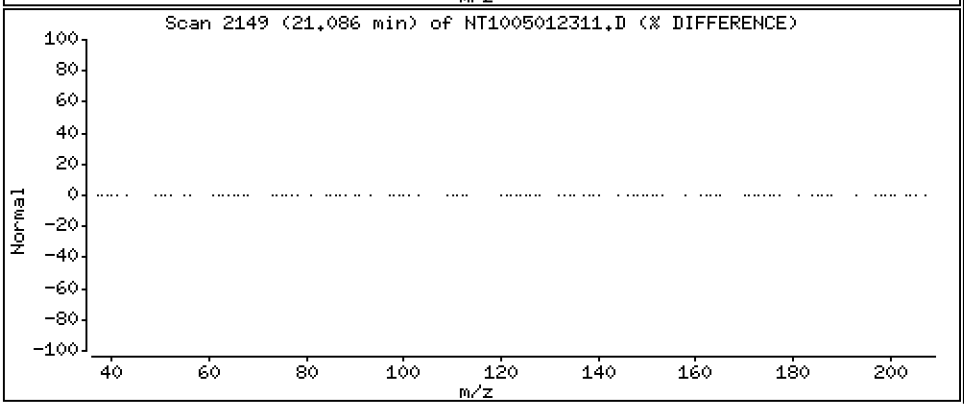












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

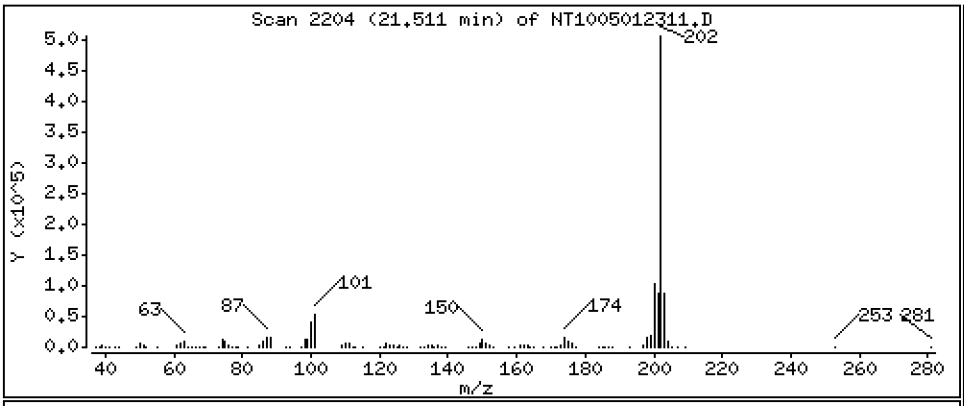
Operator: VTS

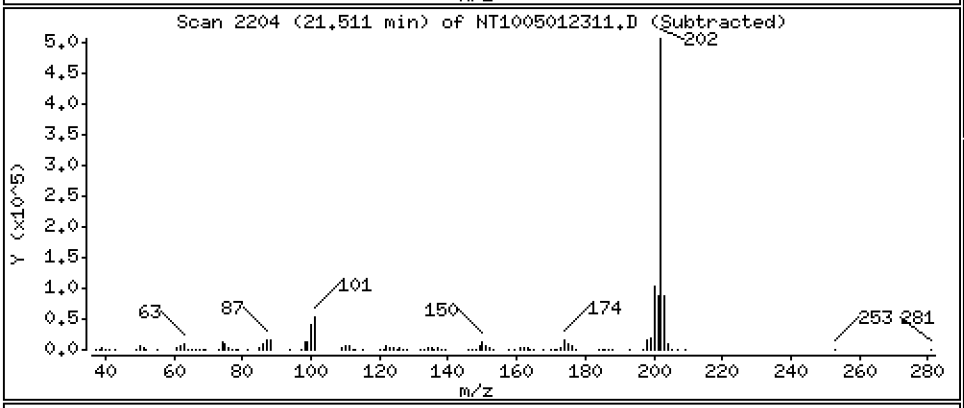
Column phase: ZB-5msi

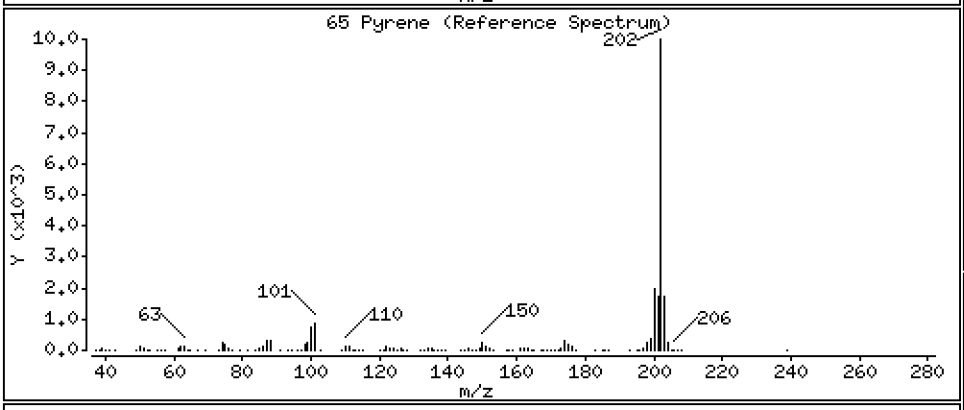
Column diameter: 0.25

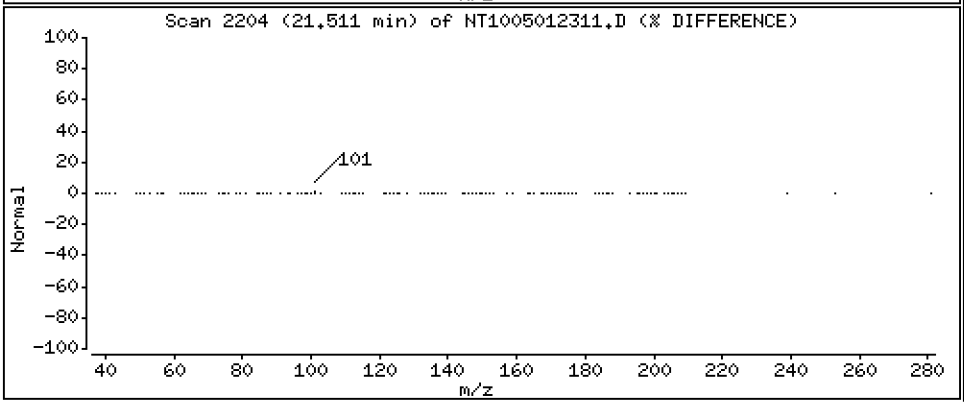
65 Pyrene

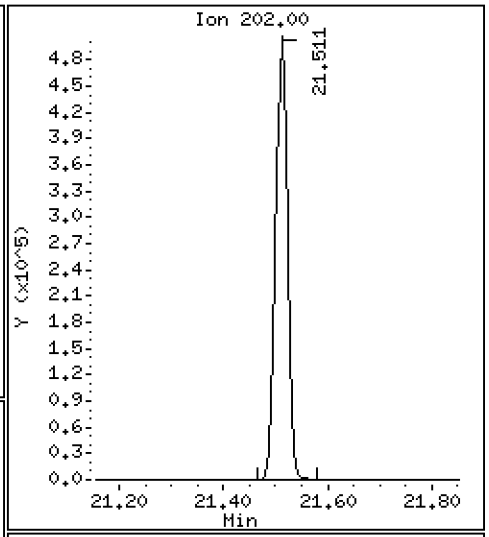
Concentration: 4.635 ug/mL

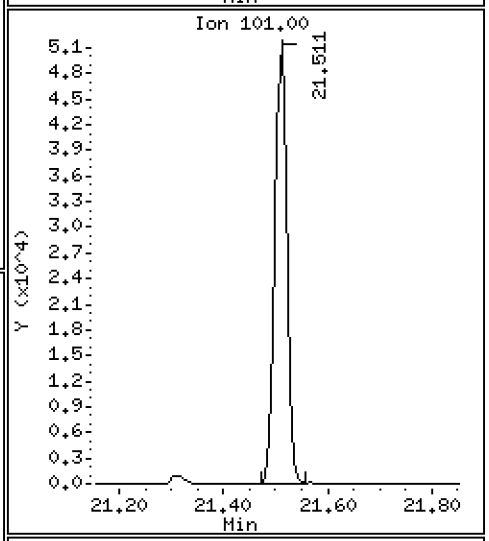


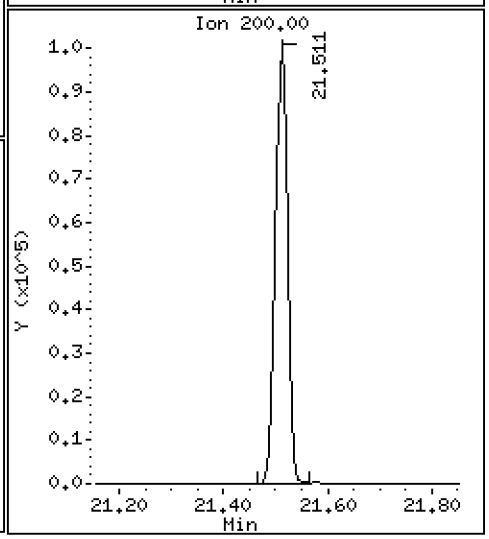












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

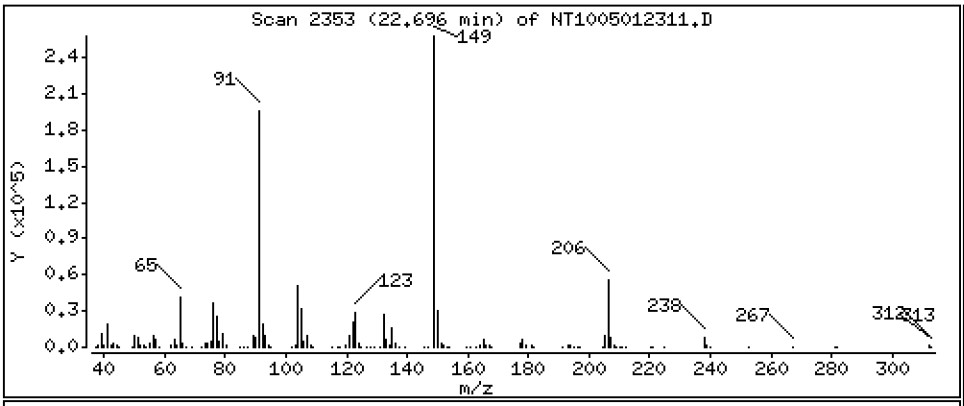
Operator: VTS

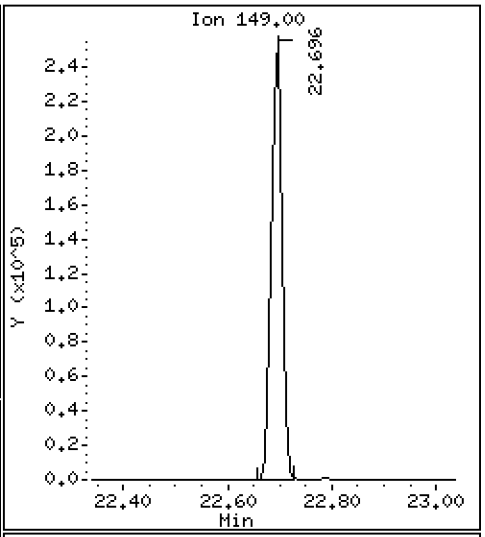
Column phase: ZB-5msi

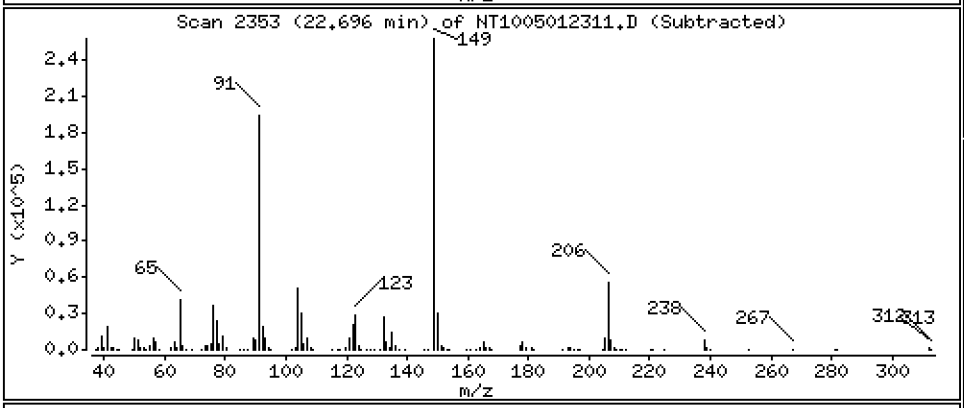
Column diameter: 0.25

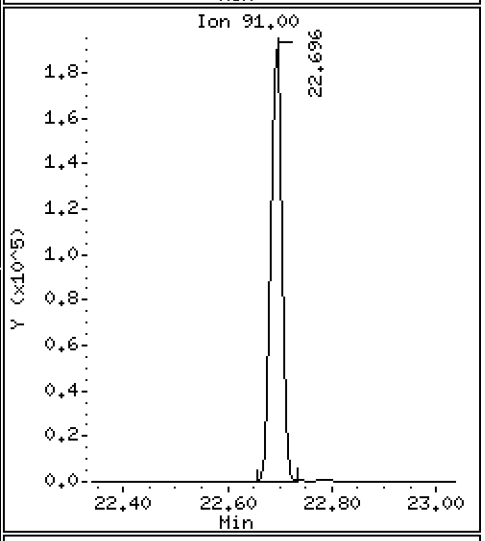
67 Butylbenzylphthalate

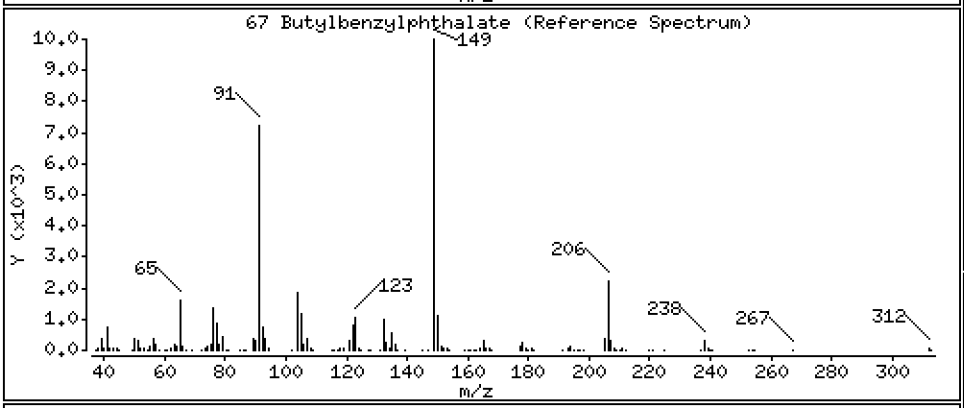
Concentration: 4.778 ug/mL

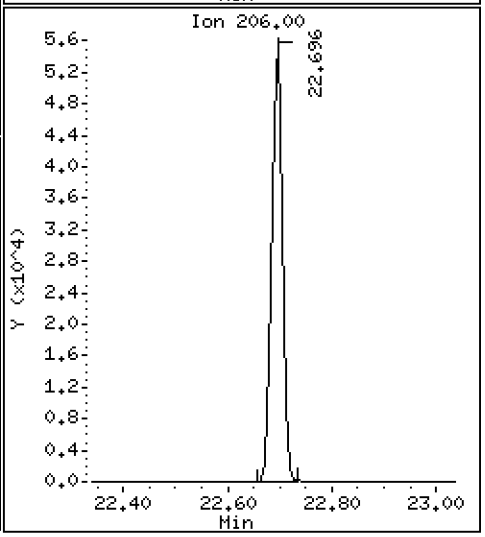


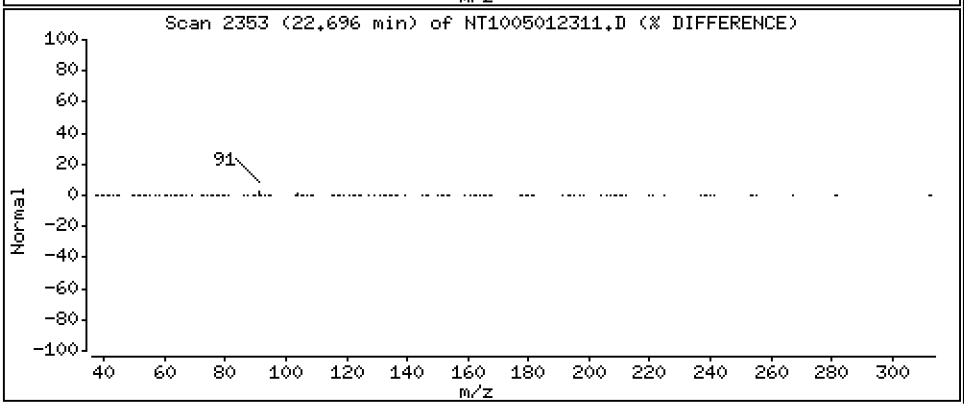












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

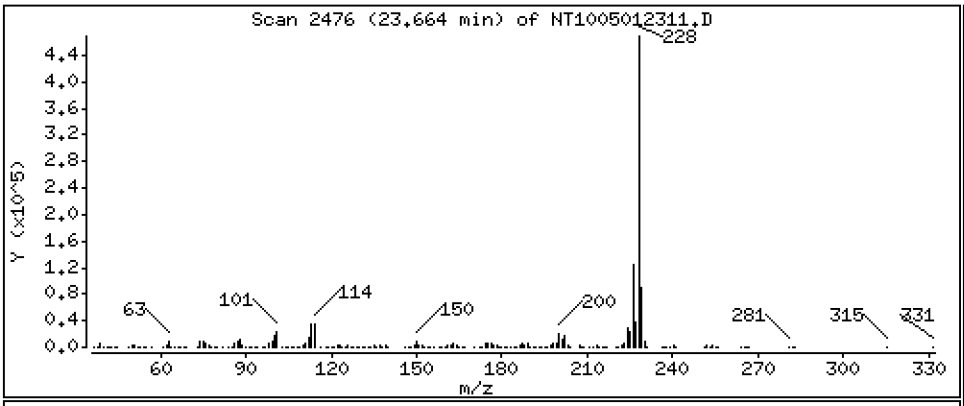
Operator: VTS

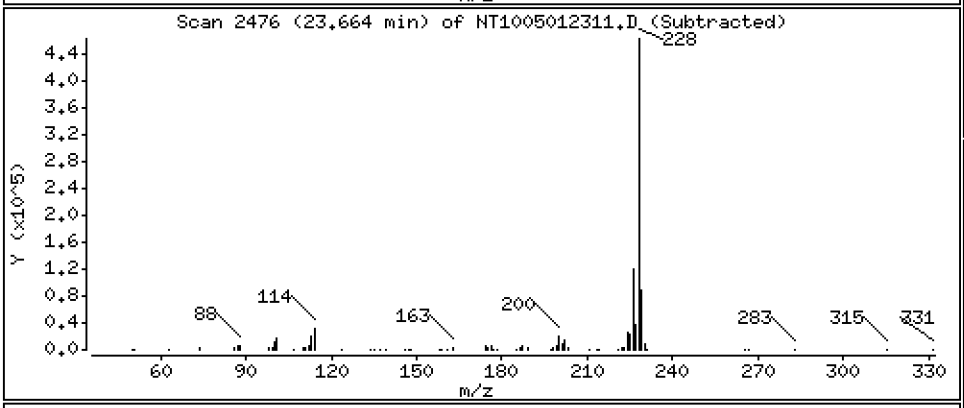
Column phase: ZB-5msi

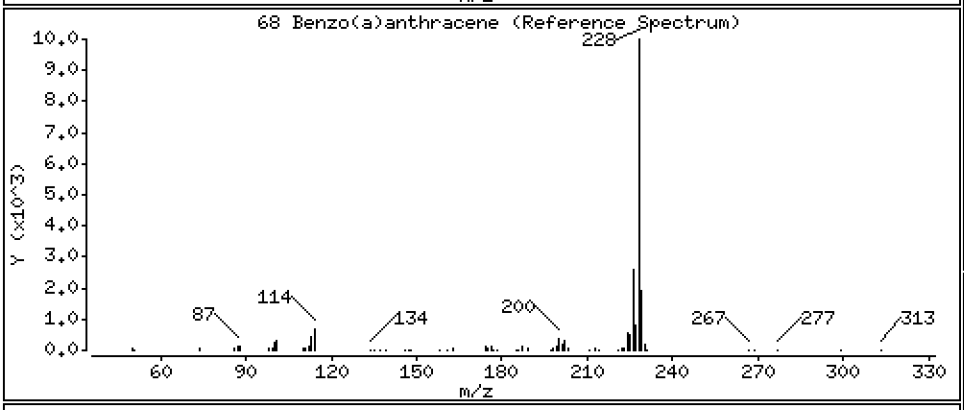
Column diameter: 0.25

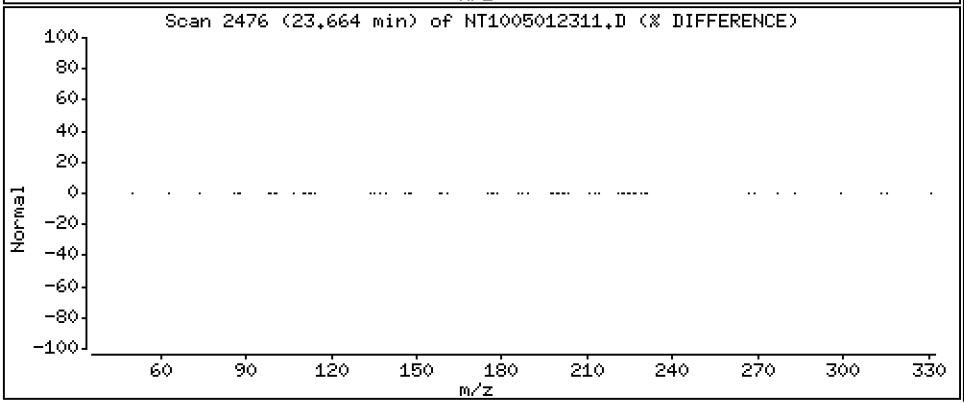
68 Benzo(a)anthracene

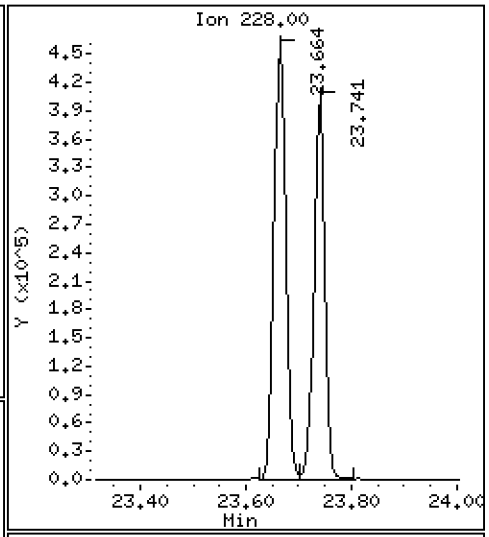
Concentration: 4.717 ug/mL

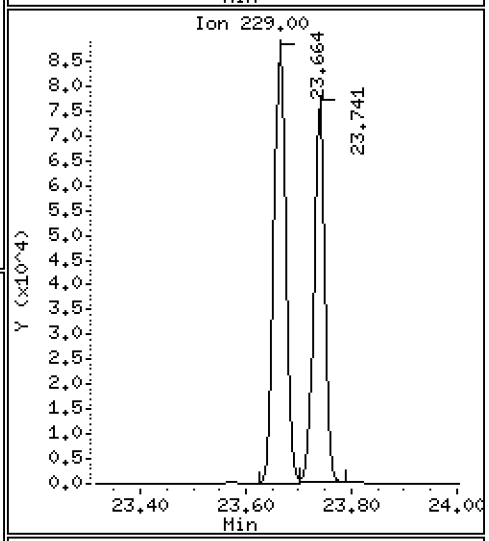


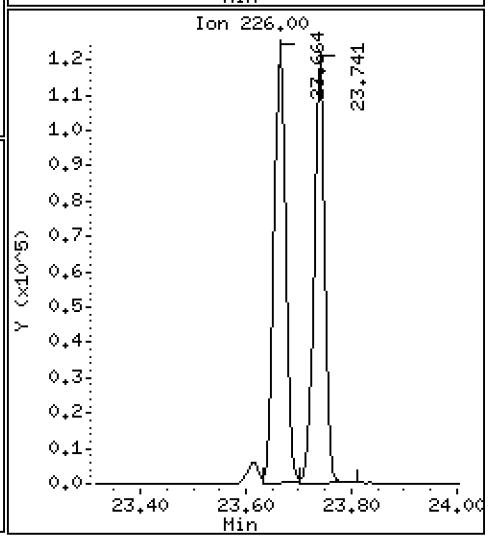












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

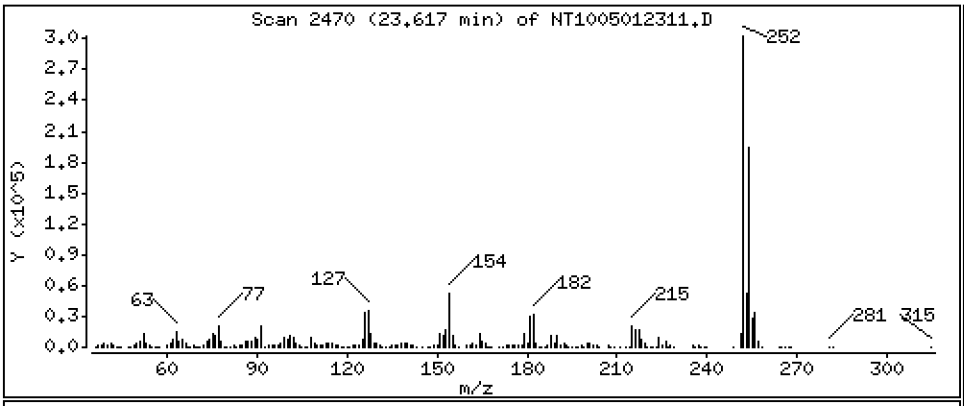
Operator: VTS

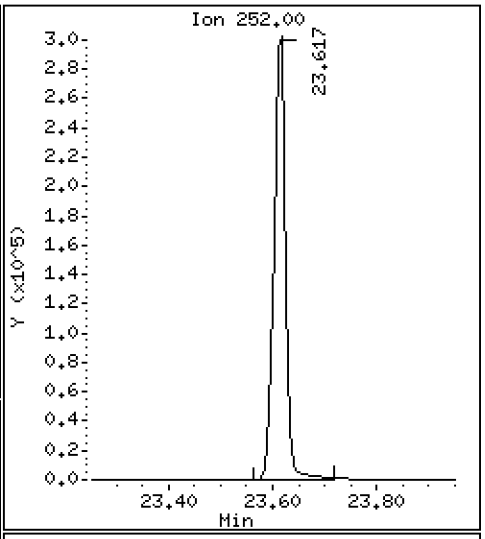
Column phase: ZB-5msi

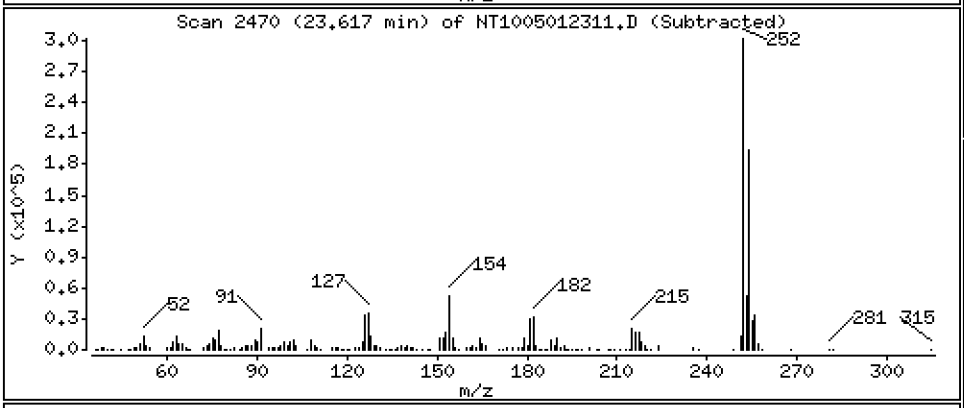
Column diameter: 0.25

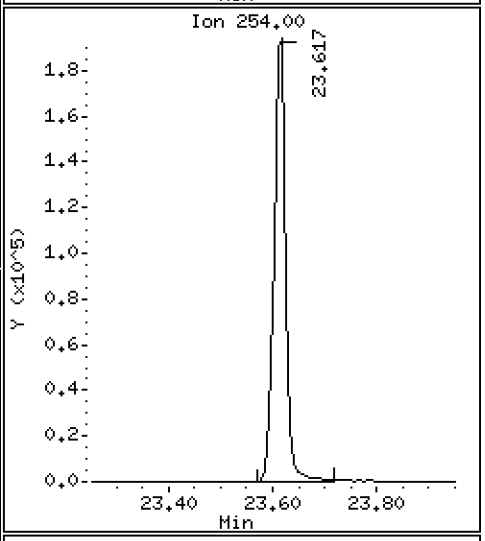
70 3,3'-Dichlorobenzidine

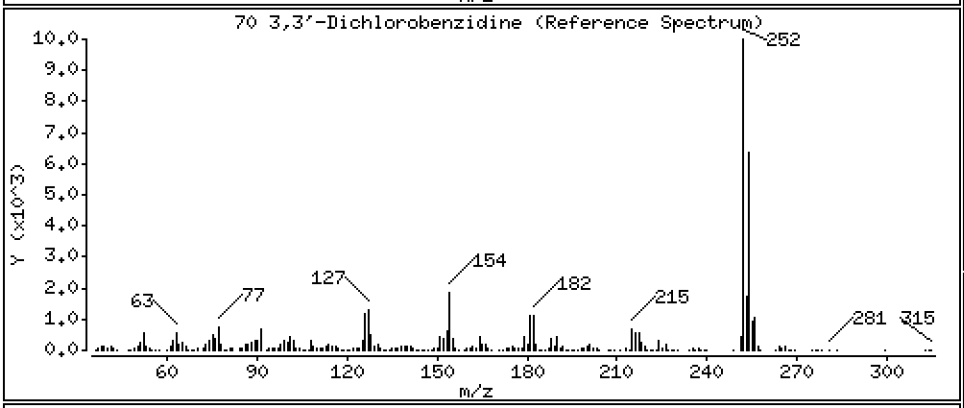
Concentration: 10.21 ug/mL

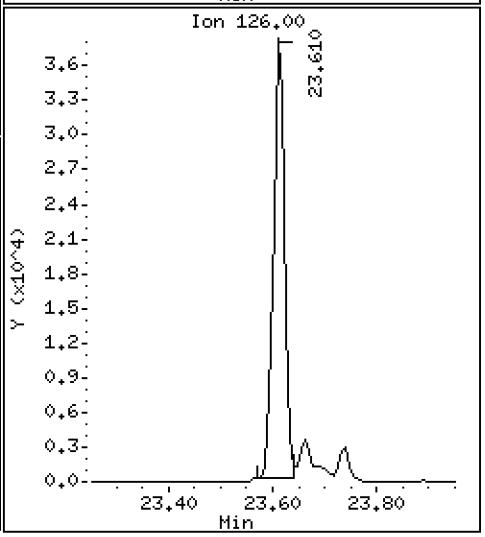


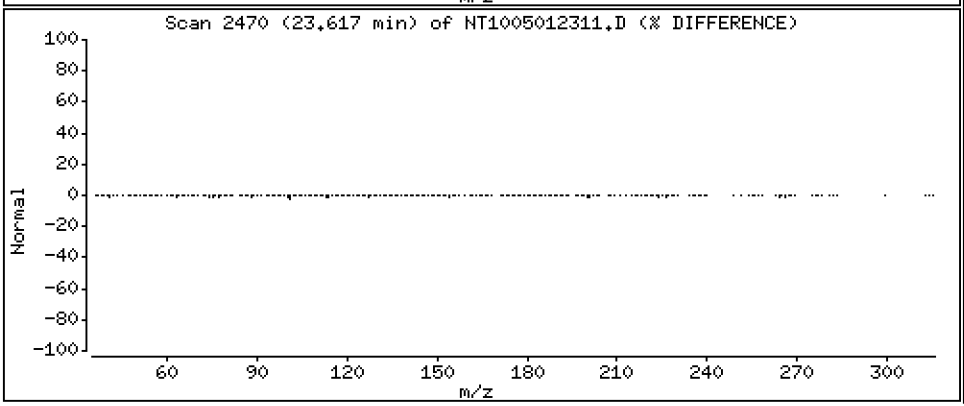












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

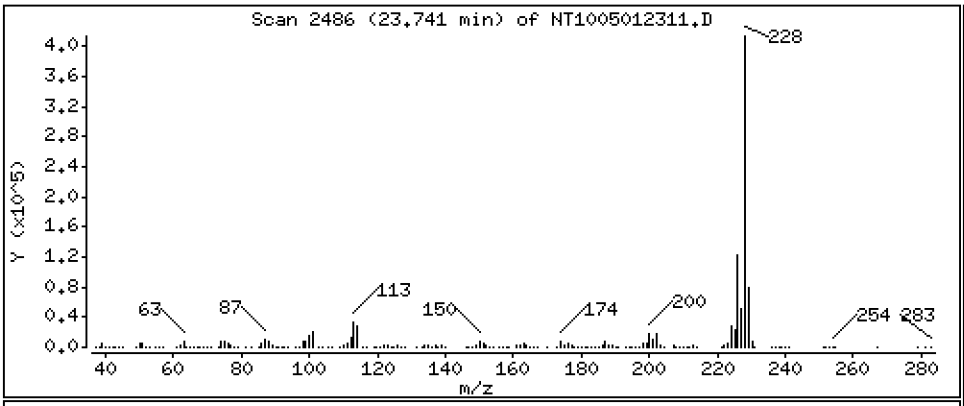
Operator: VTS

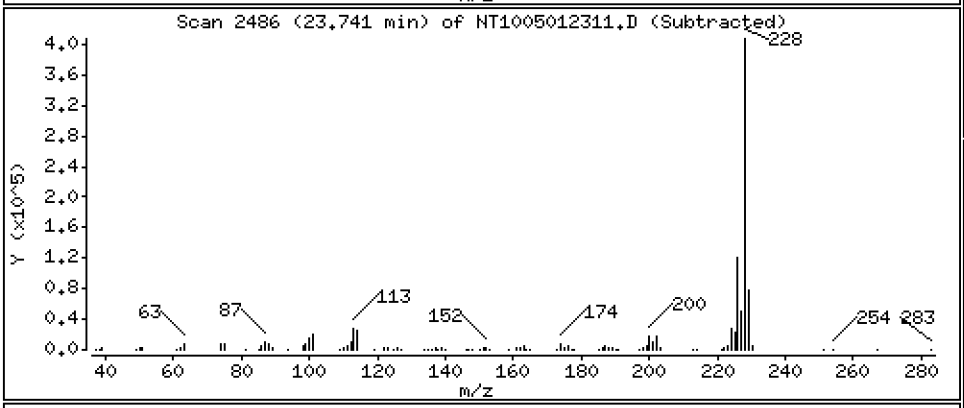
Column phase: ZB-5msi

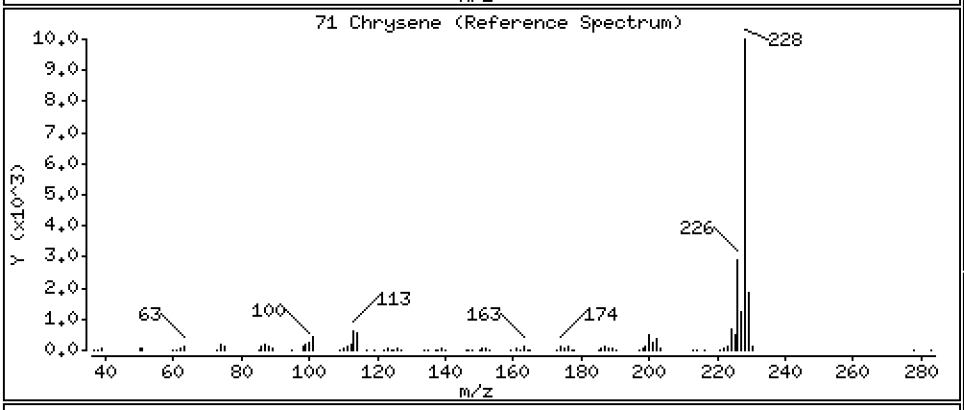
Column diameter: 0.25

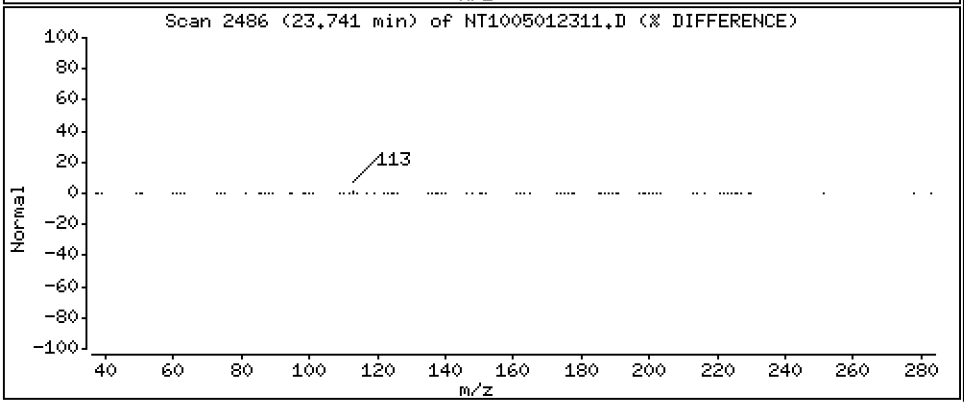
71 Chrysene

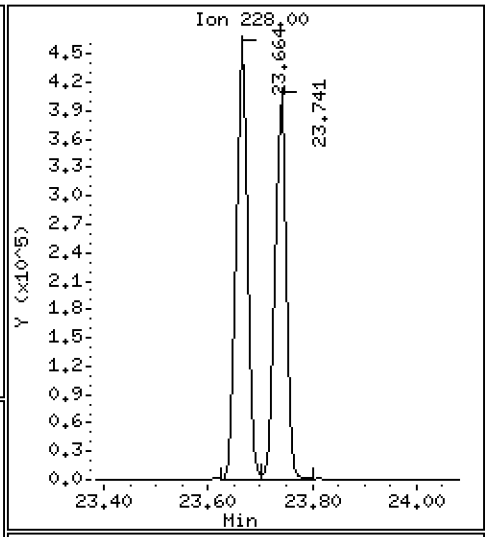
Concentration: 4.540 ug/mL

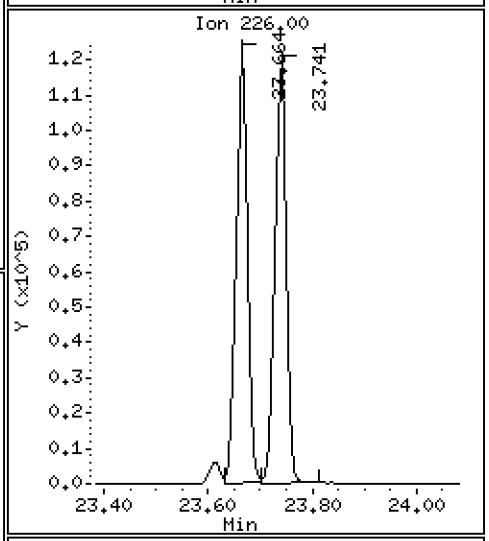


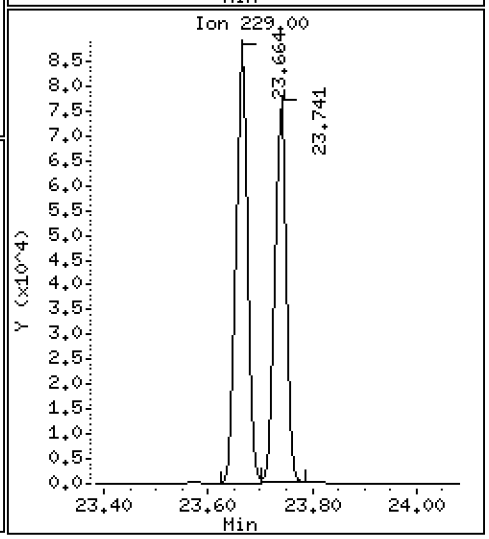












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

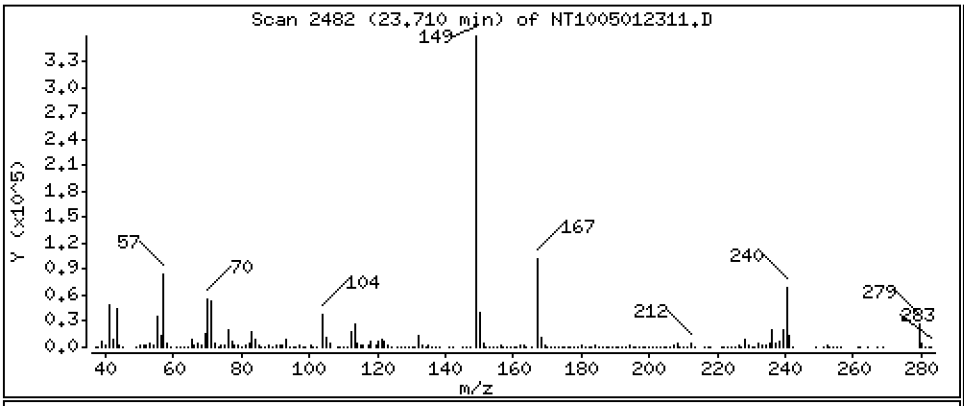
Operator: VTS

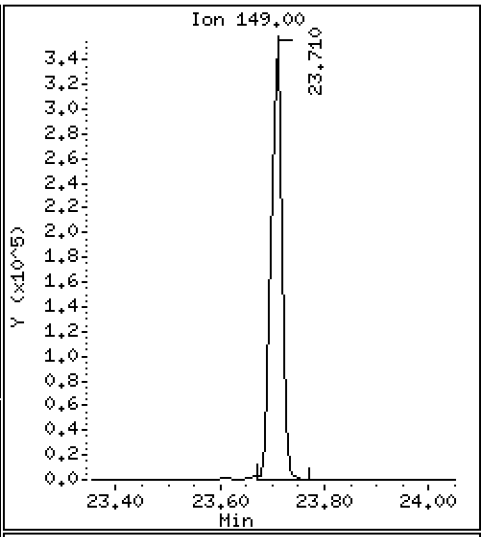
Column phase: ZB-5msi

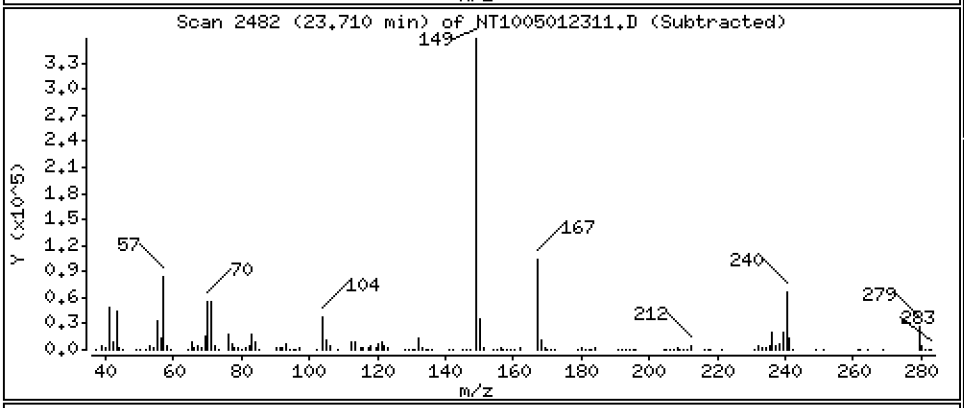
Column diameter: 0.25

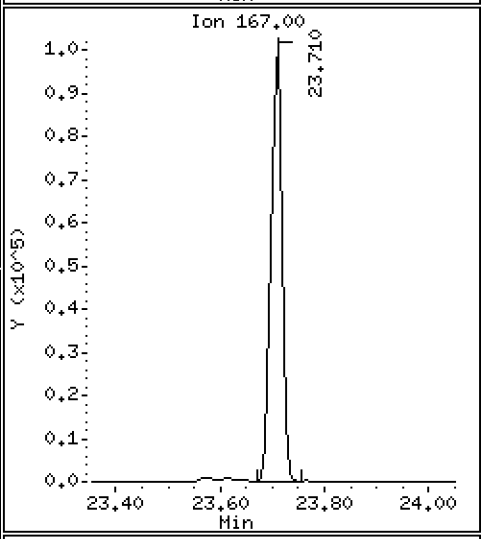
72 bis(2-Ethylhexyl)phthalate

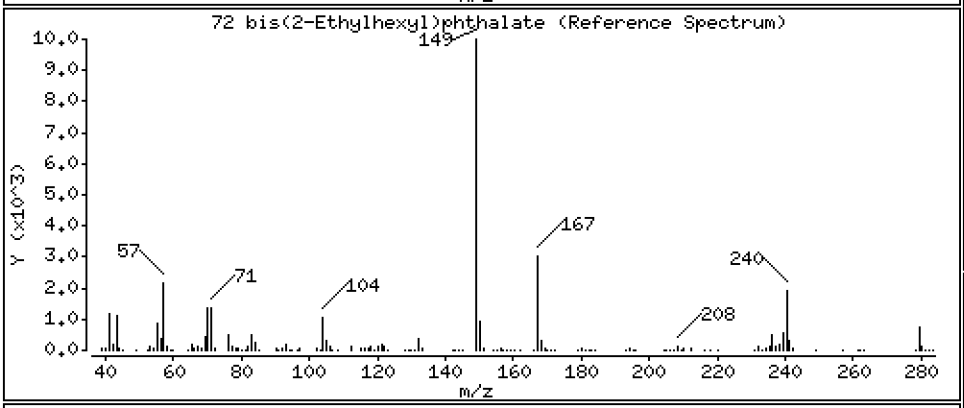
Concentration: 5.406 ug/mL

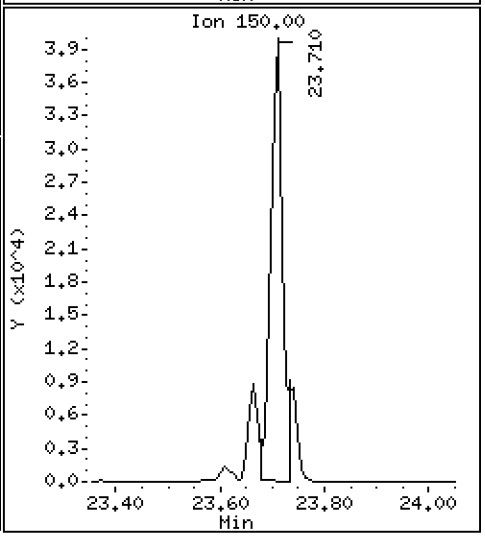


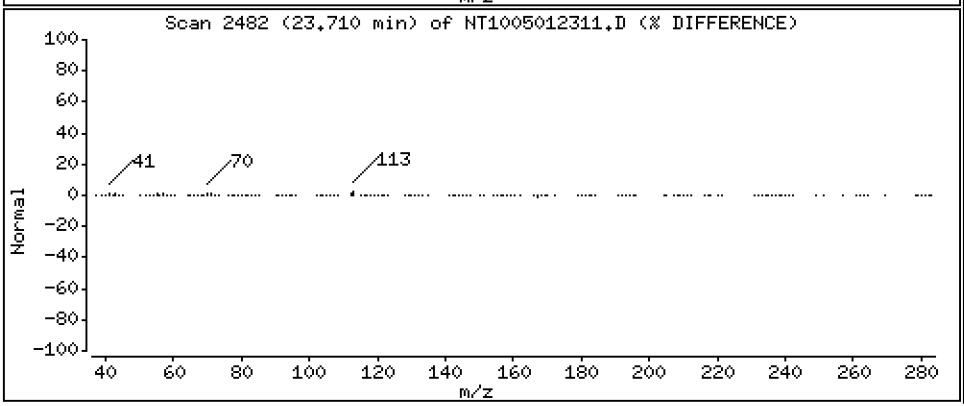












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

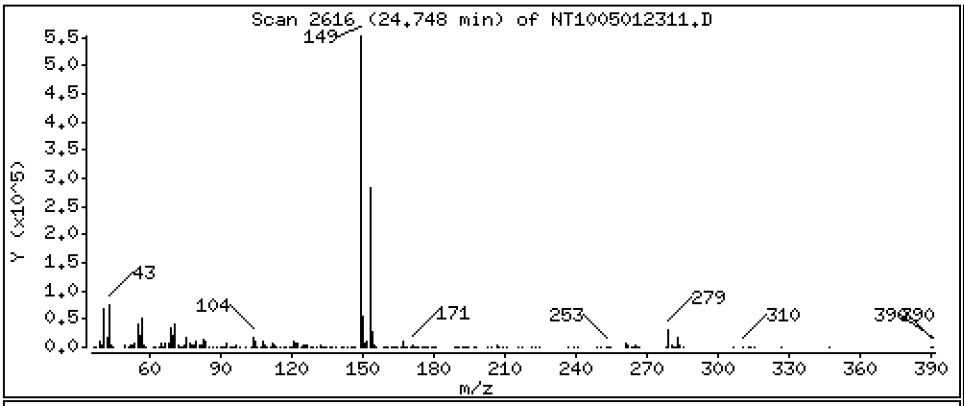
Operator: VTS

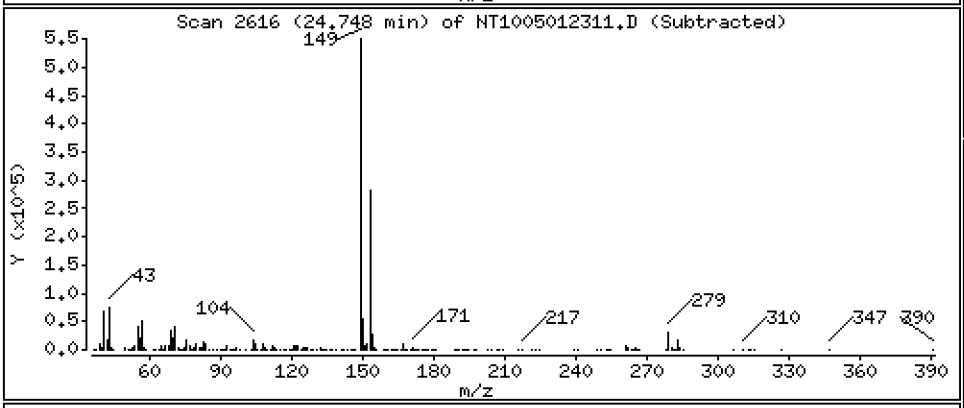
Column phase: ZB-5msi

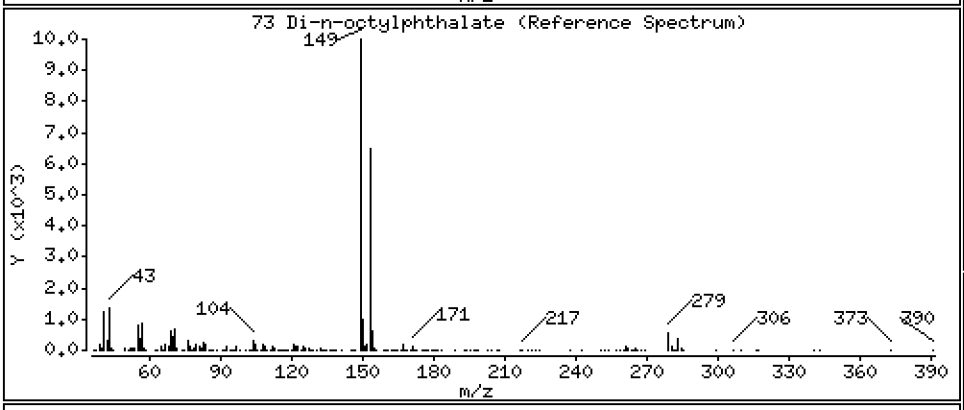
Column diameter: 0.25

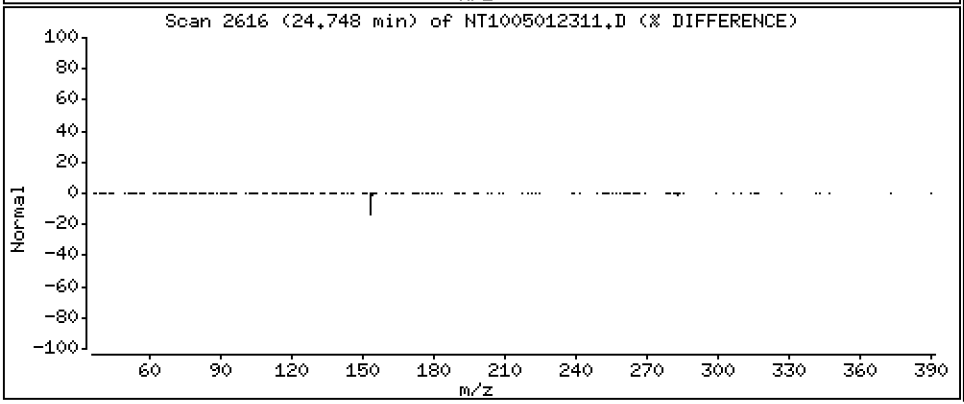
73 Di-n-octylphthalate

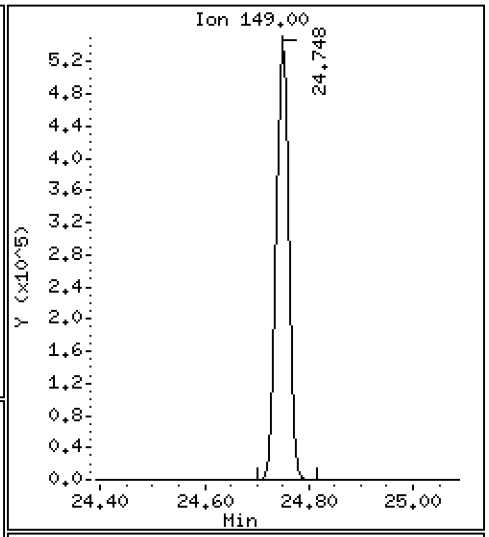
Concentration: 5.161 ug/mL

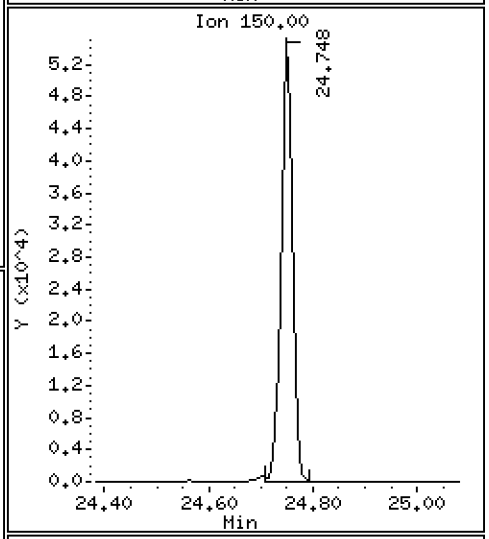


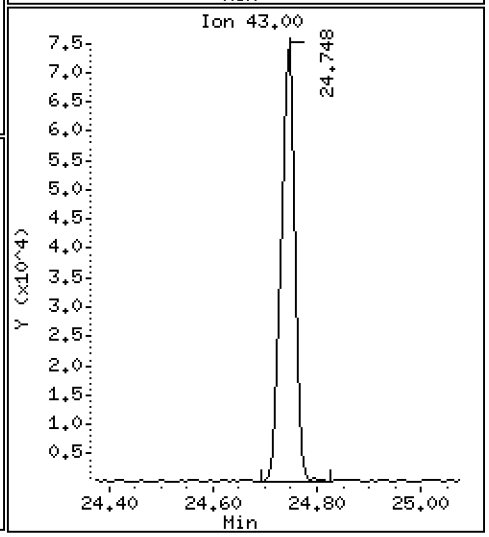












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

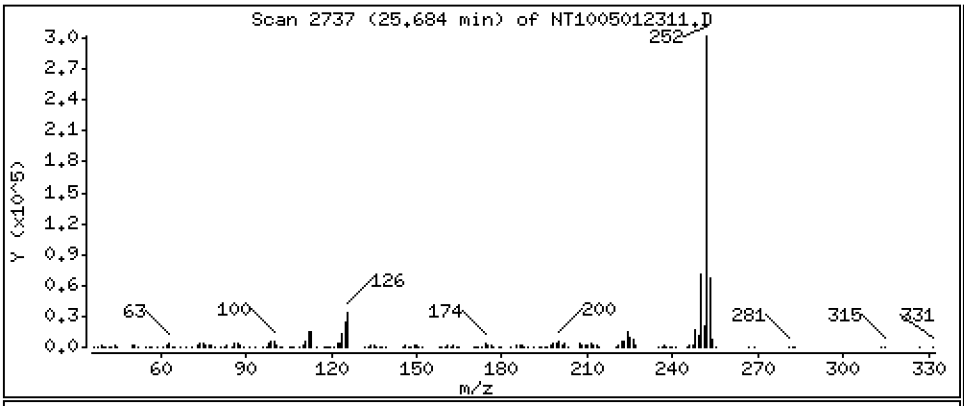
Operator: VTS

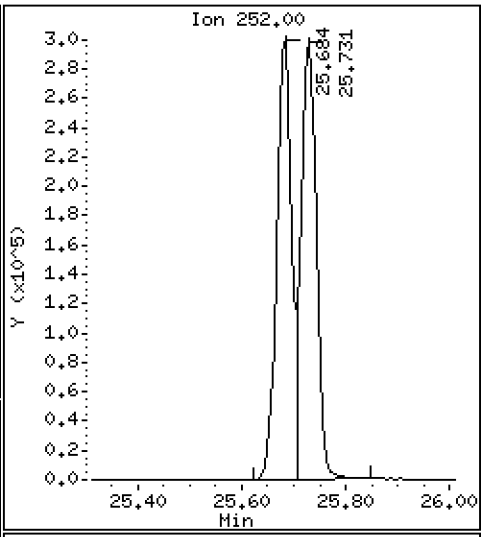
Column phase: ZB-5msi

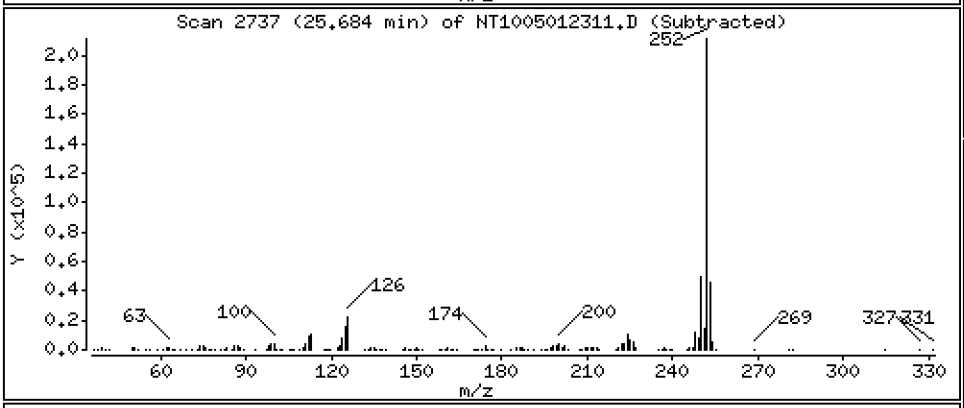
Column diameter: 0.25

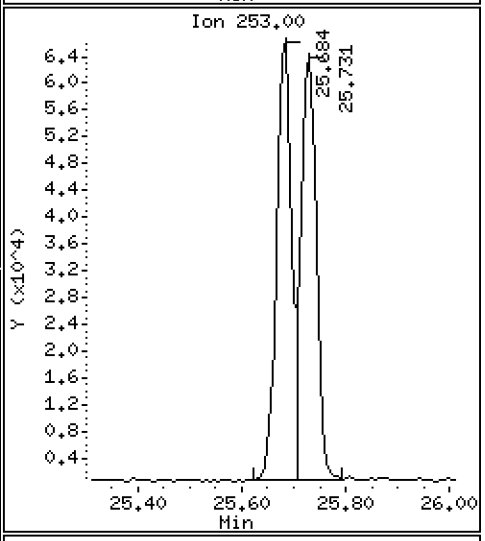
74 Benzo(b)fluoranthene

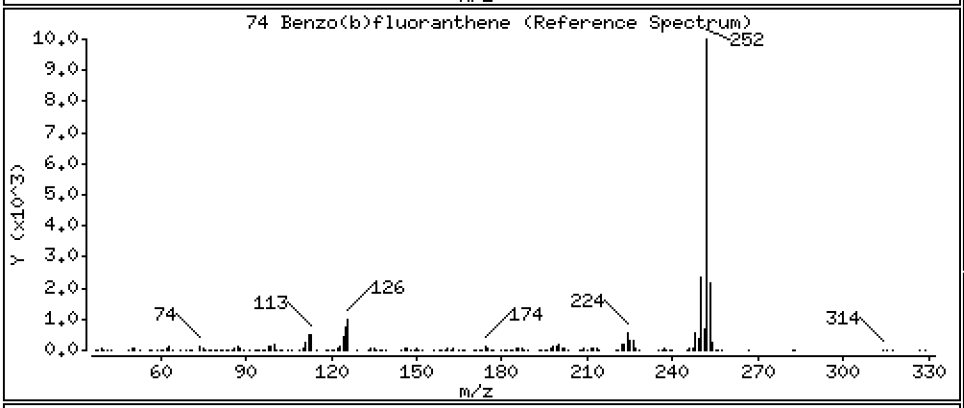
Concentration: 4.785 ug/mL

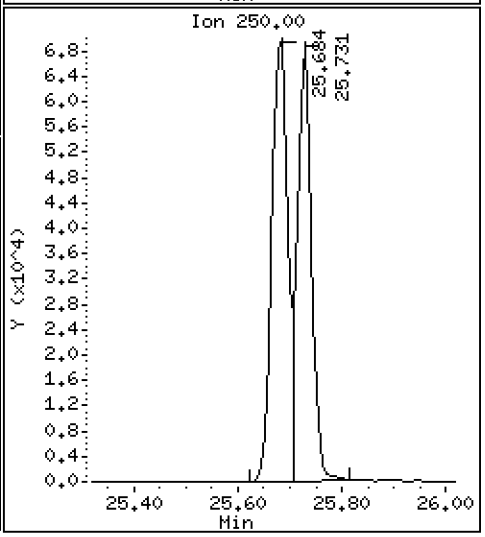


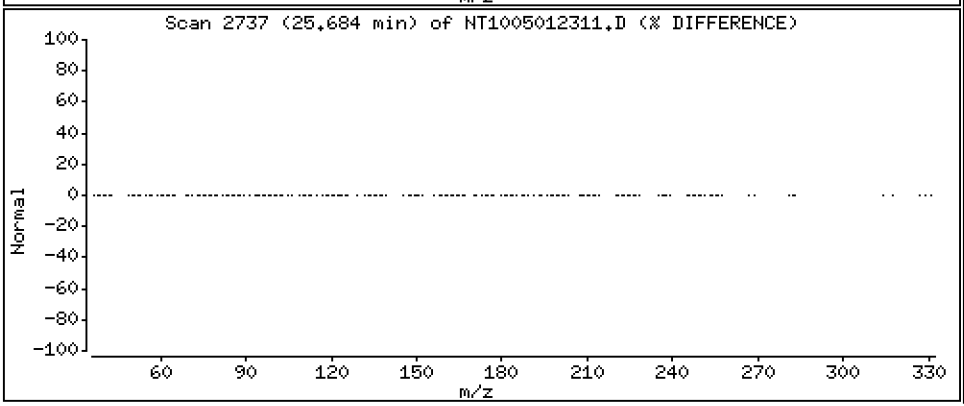












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

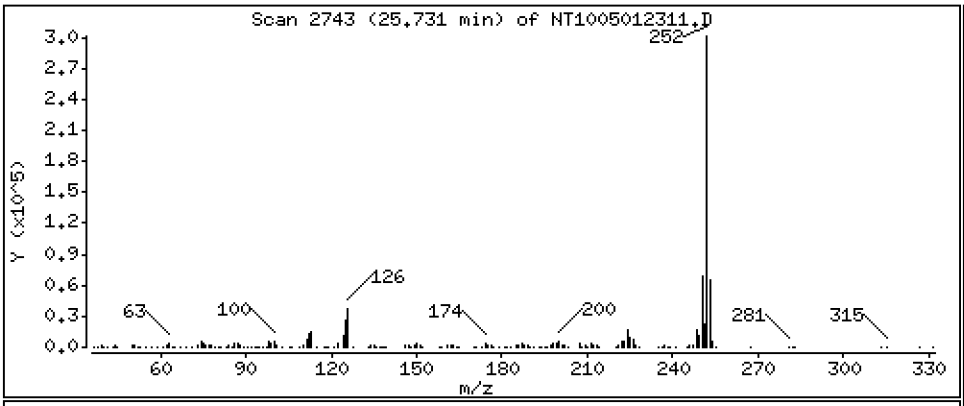
Operator: VTS

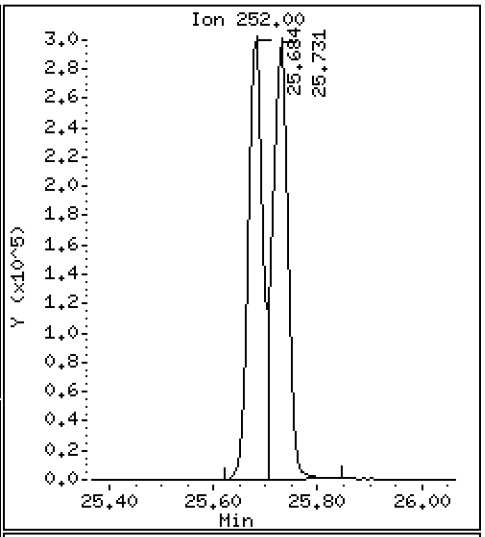
Column phase: ZB-5msi

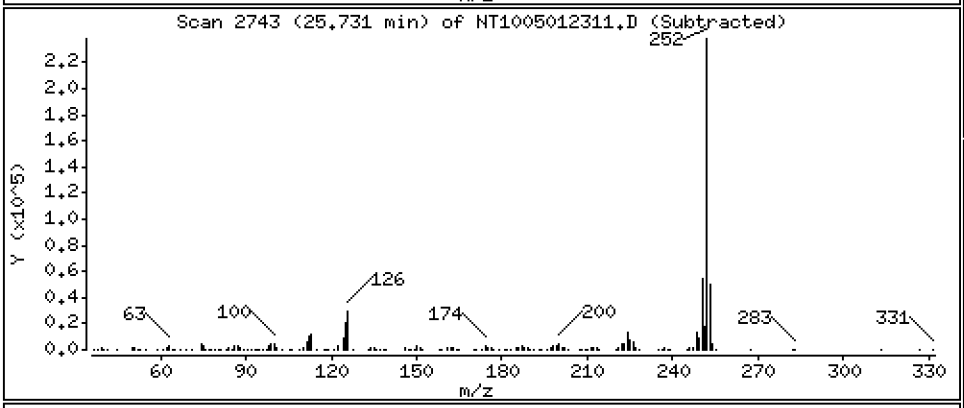
Column diameter: 0.25

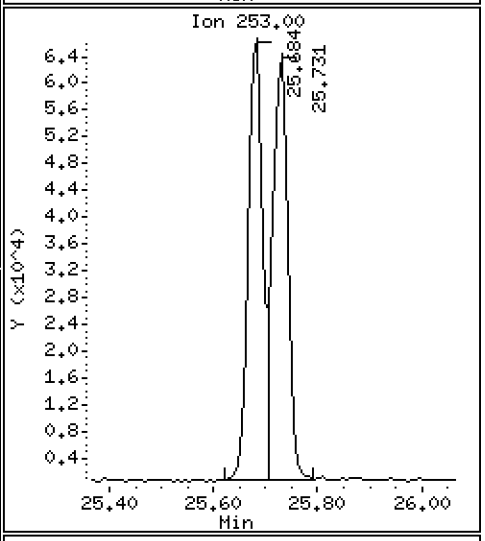
75 Benzo(k)fluoranthene

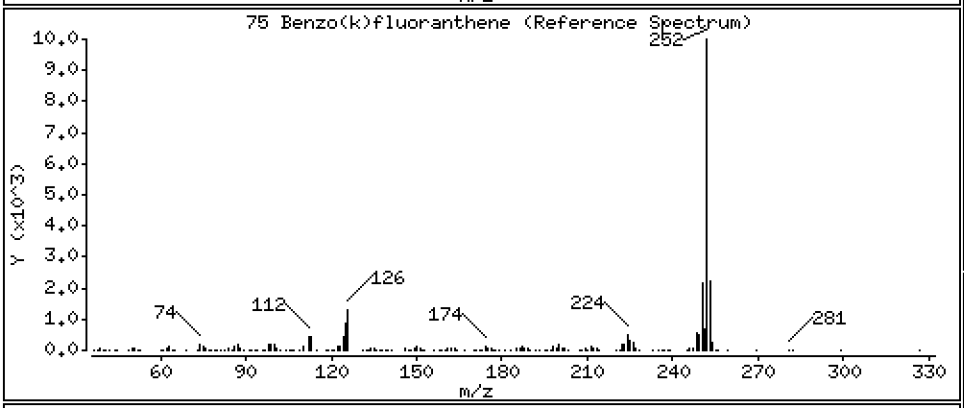
Concentration: 4.457 ug/mL

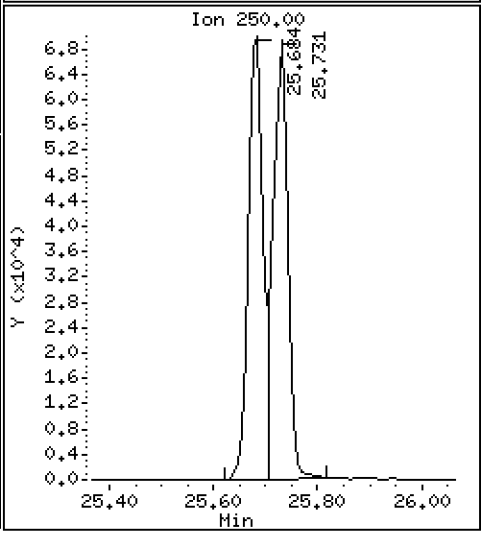


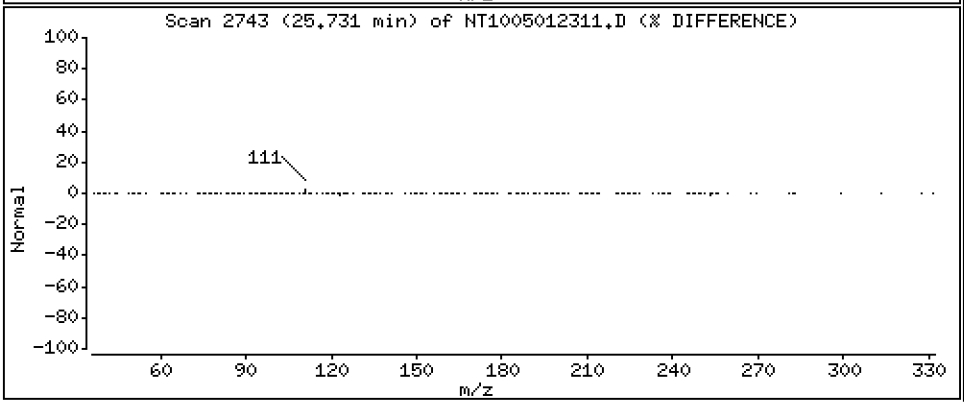












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

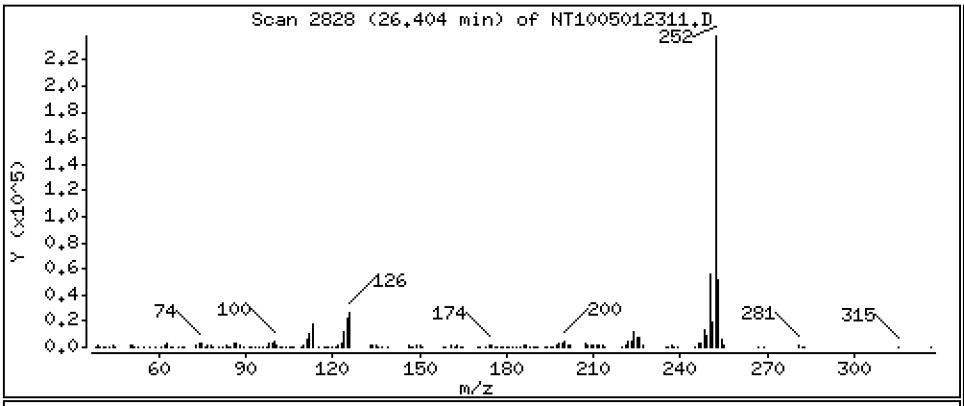
Operator: VTS

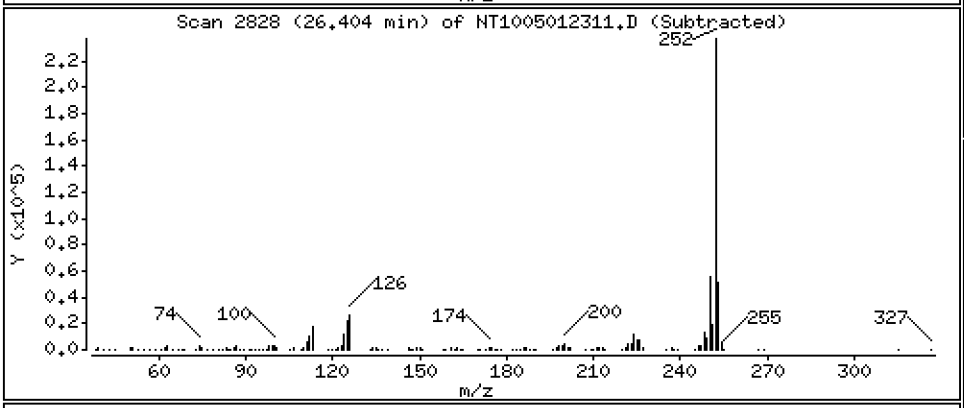
Column phase: ZB-5msi

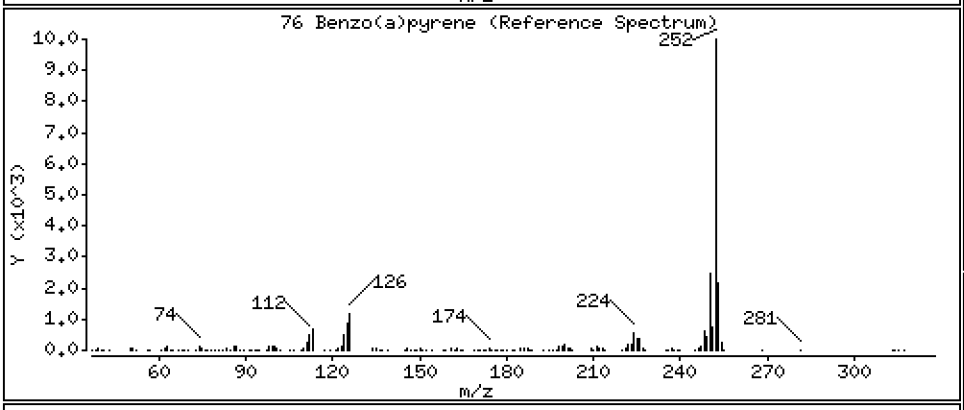
Column diameter: 0.25

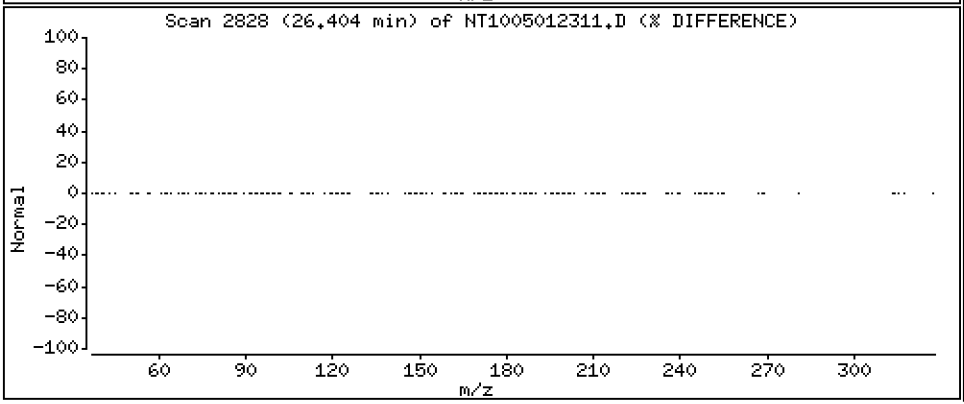
76 Benzo(a)pyrene

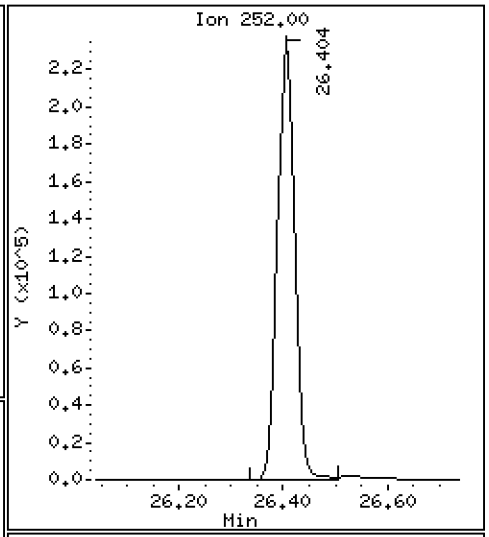
Concentration: 4.787 ug/mL

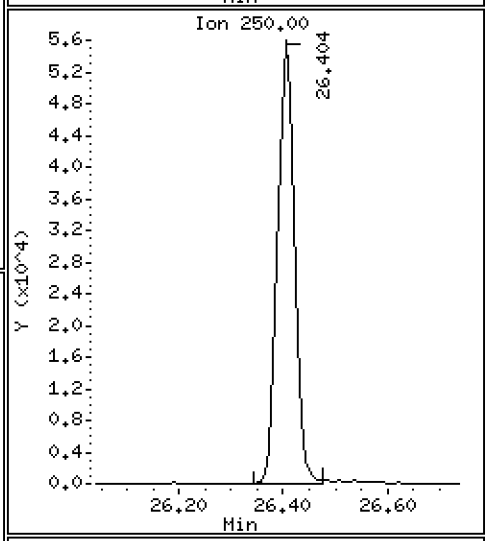


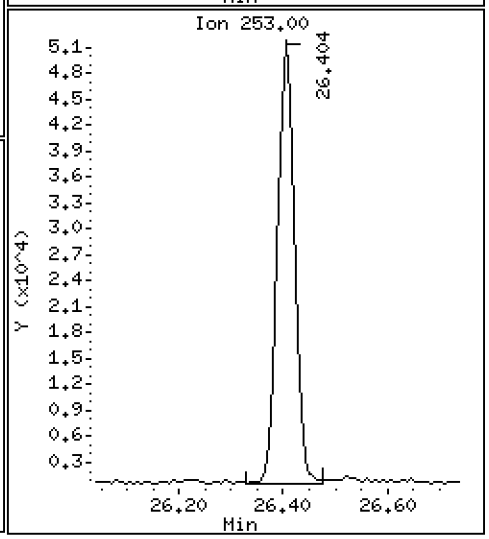












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

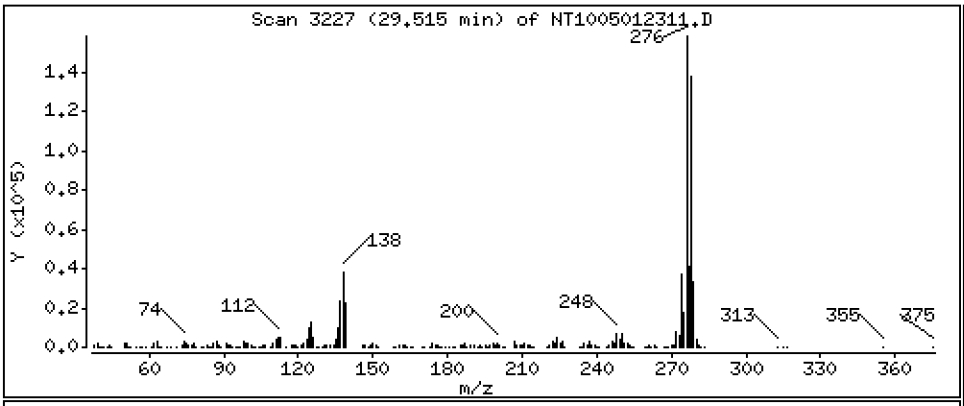
Operator: VTS

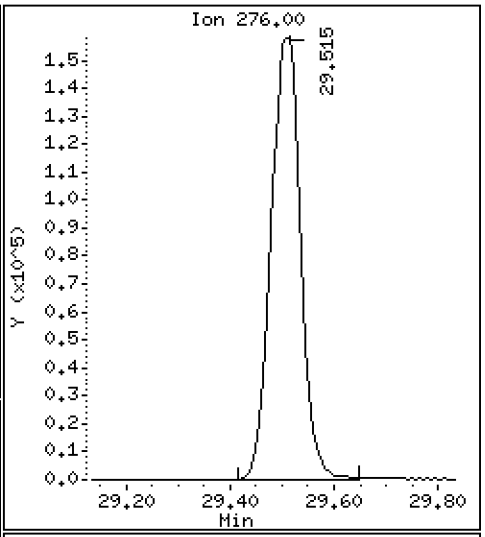
Column phase: ZB-5msi

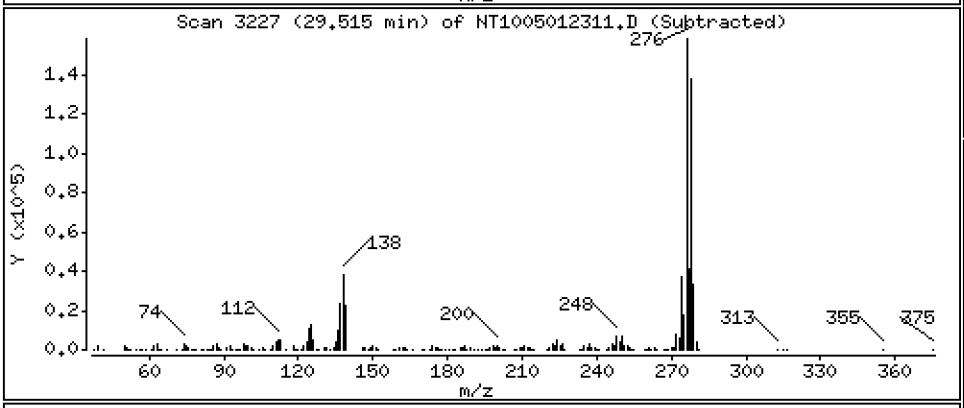
Column diameter: 0.25

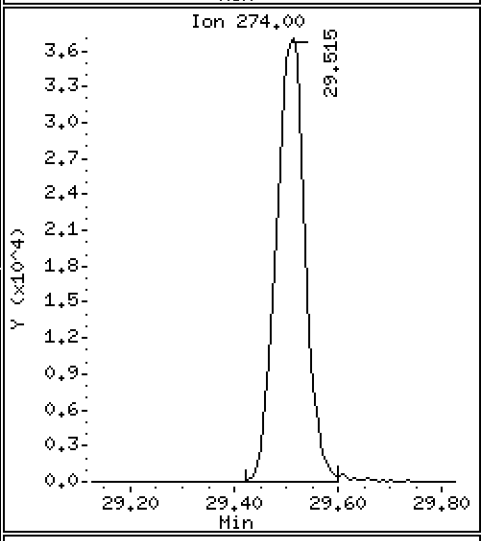
78 Indeno(1,2,3-cd)pyrene

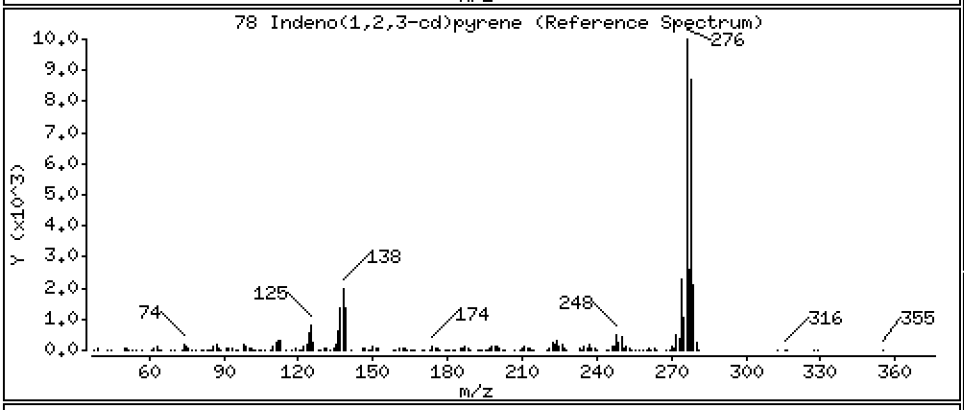
Concentration: 4.677 ug/mL

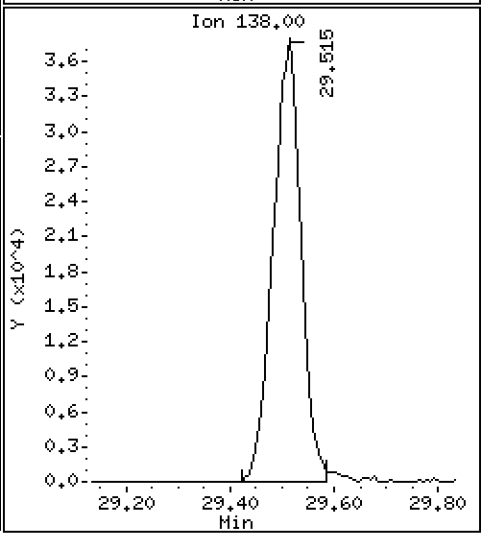


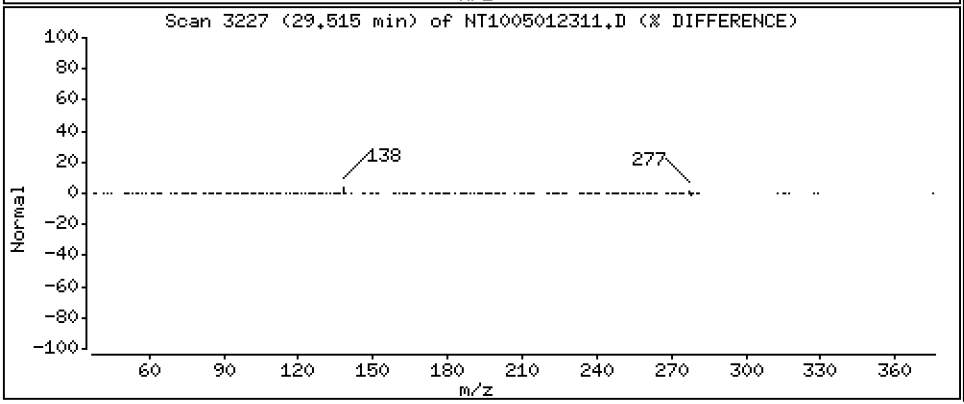












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

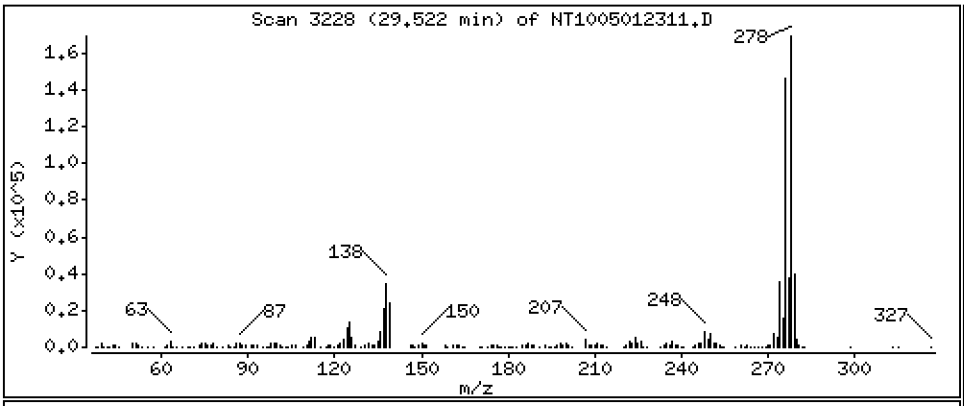
Operator: VTS

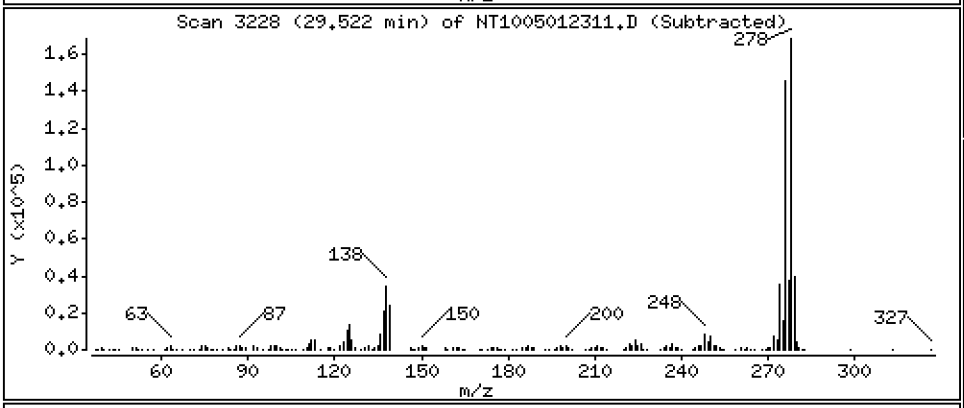
Column phase: ZB-5msi

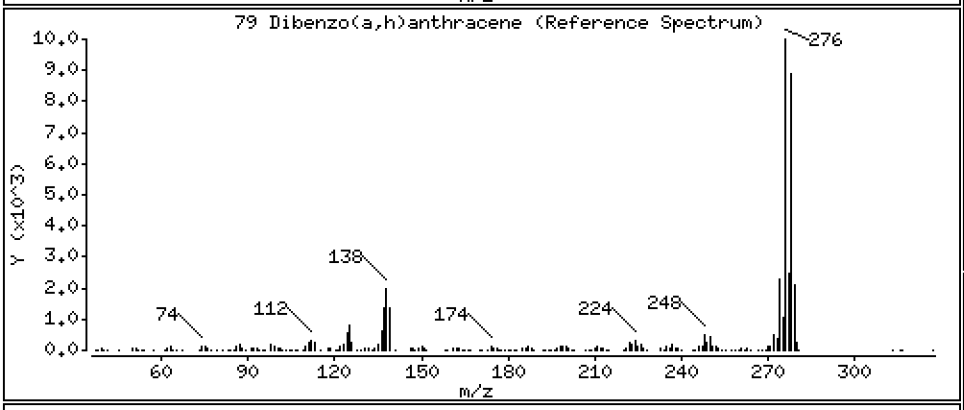
Column diameter: 0.25

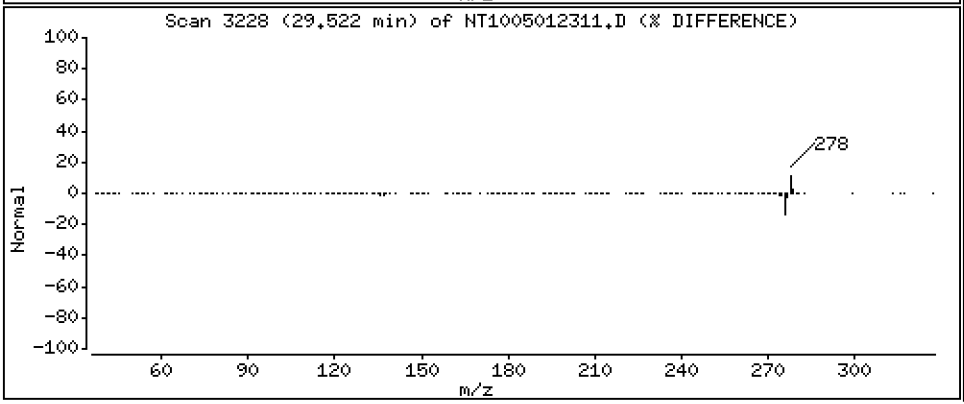
79 Dibenzo(a,h)anthracene

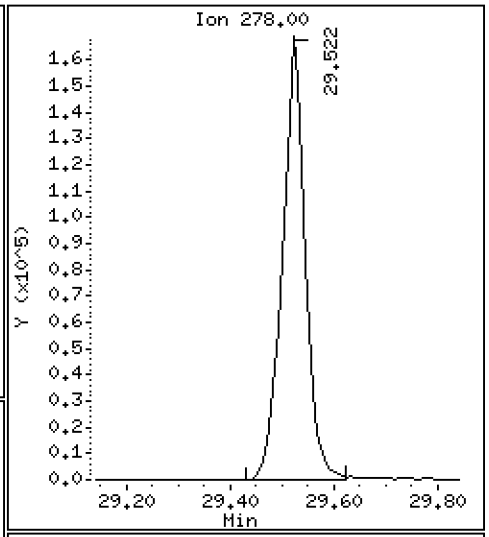
Concentration: 4.649 ug/mL

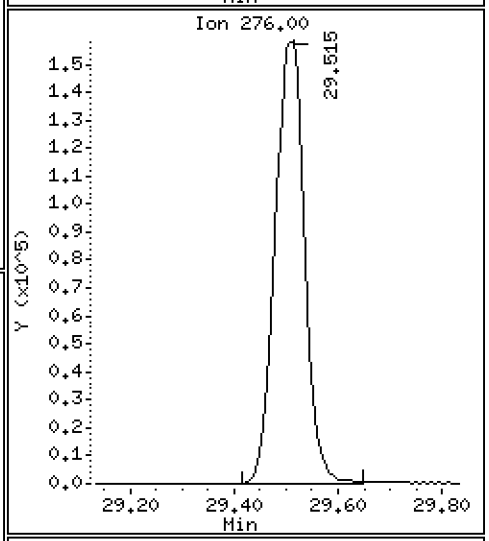


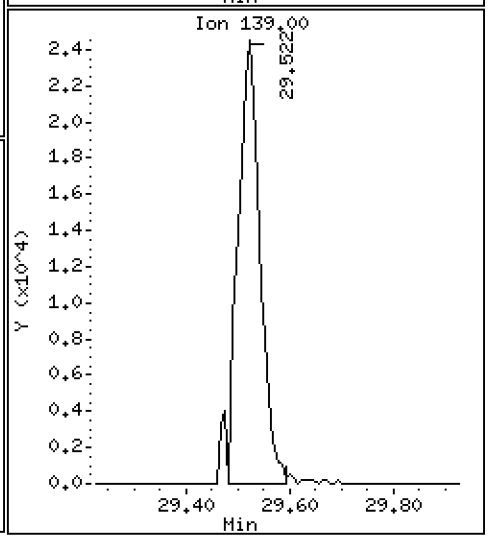












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

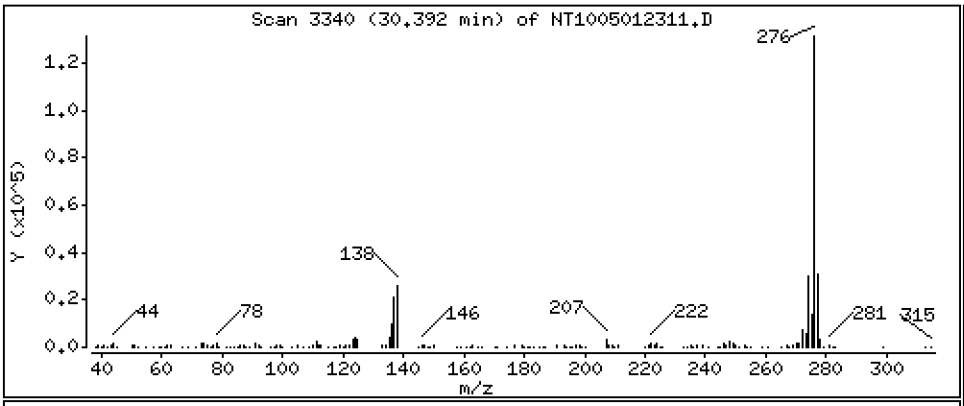
Operator: VTS

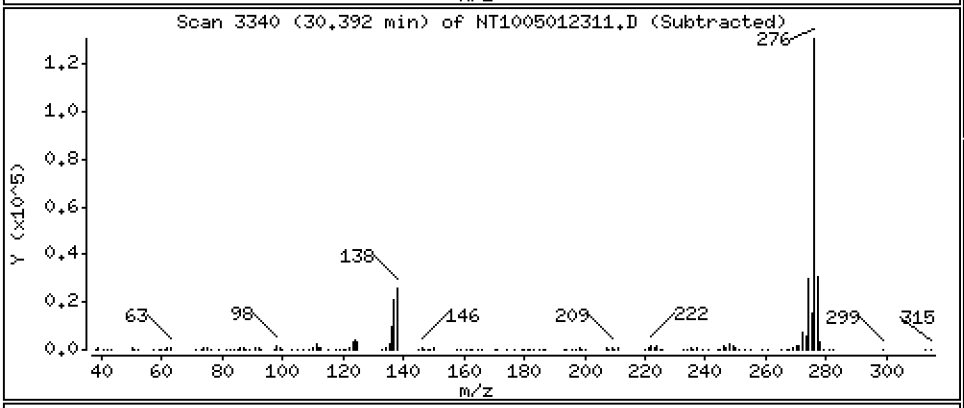
Column phase: ZB-5msi

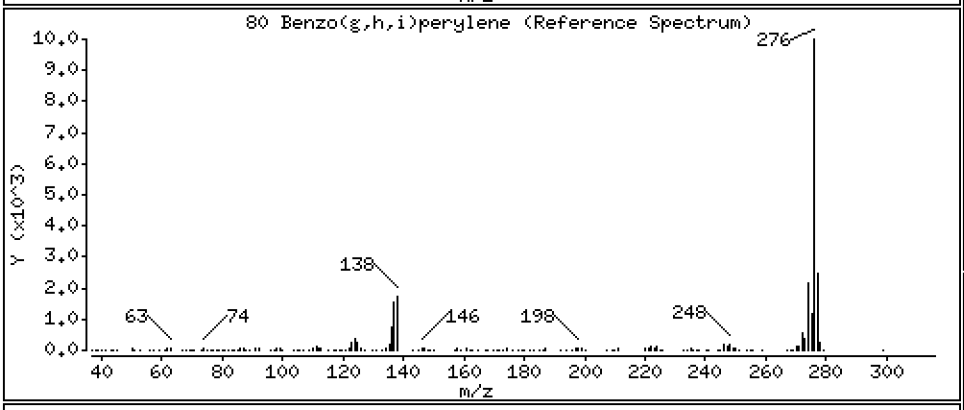
Column diameter: 0.25

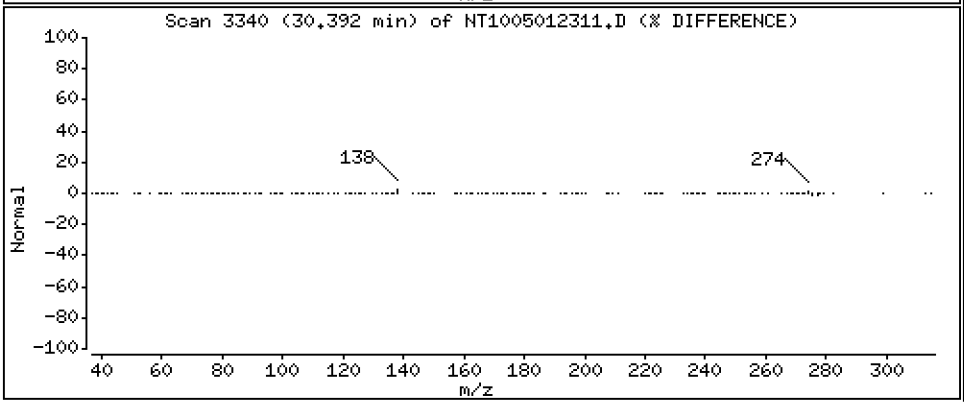
80 Benzo(g,h,i)perylene

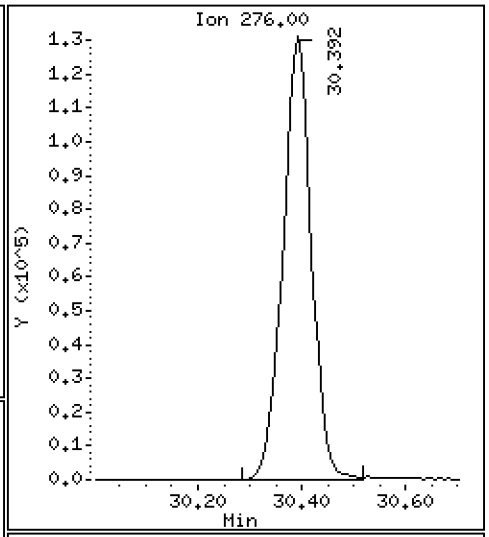
Concentration: 4.659 ug/mL

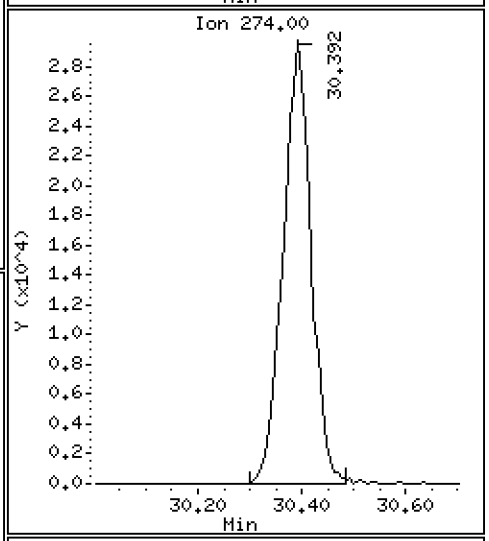


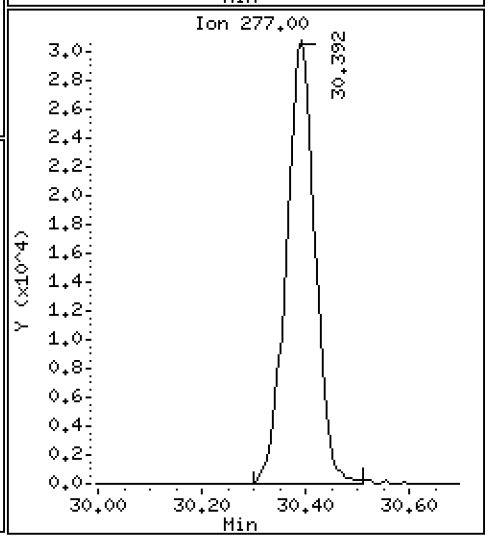












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

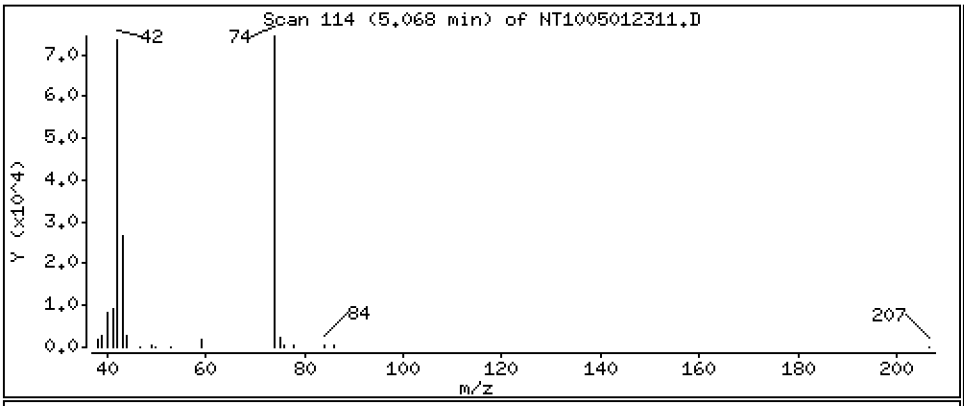
Operator: VTS

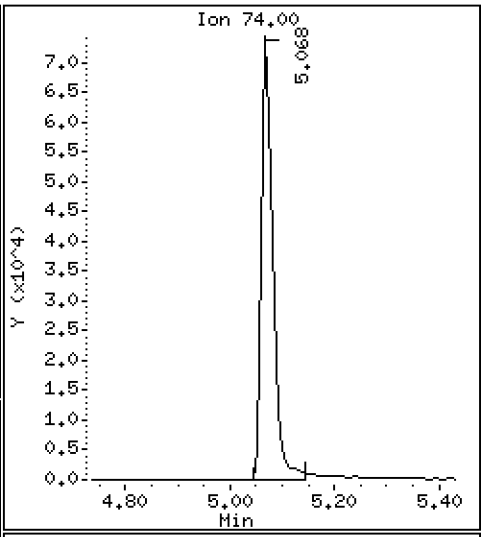
Column phase: ZB-5msi

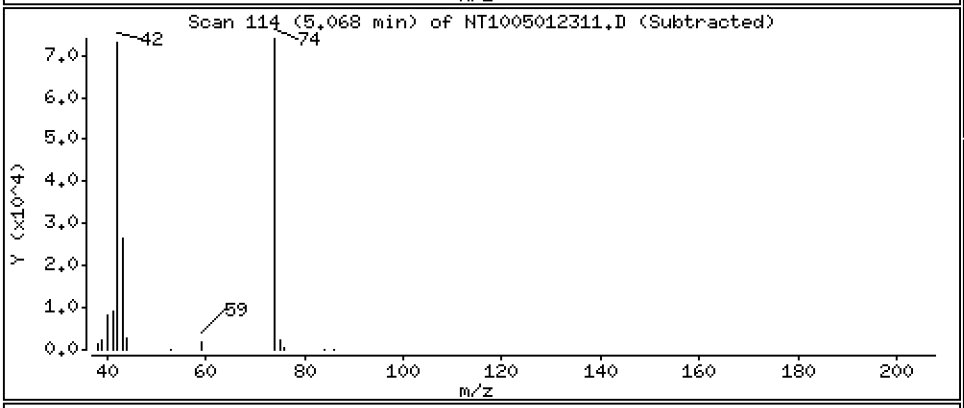
Column diameter: 0.25

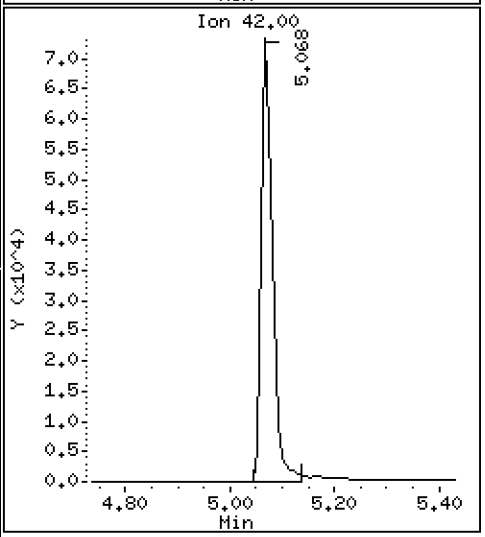
90 N-Nitrosodimethylamine

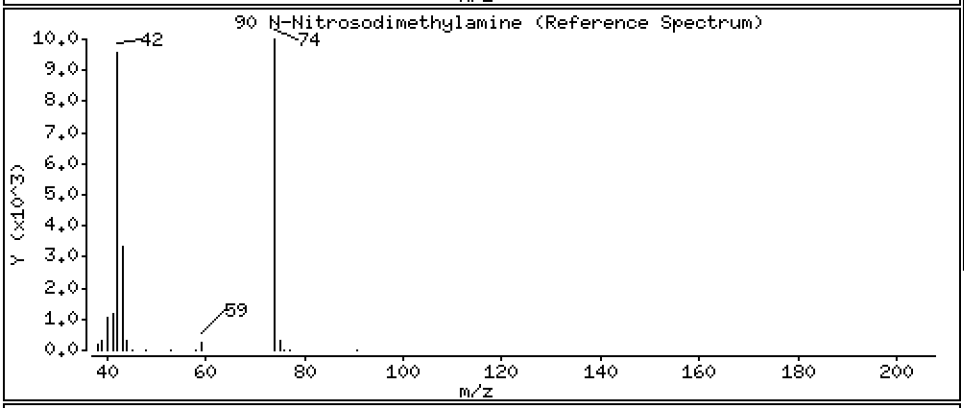
Concentration: 5.190 ug/mL

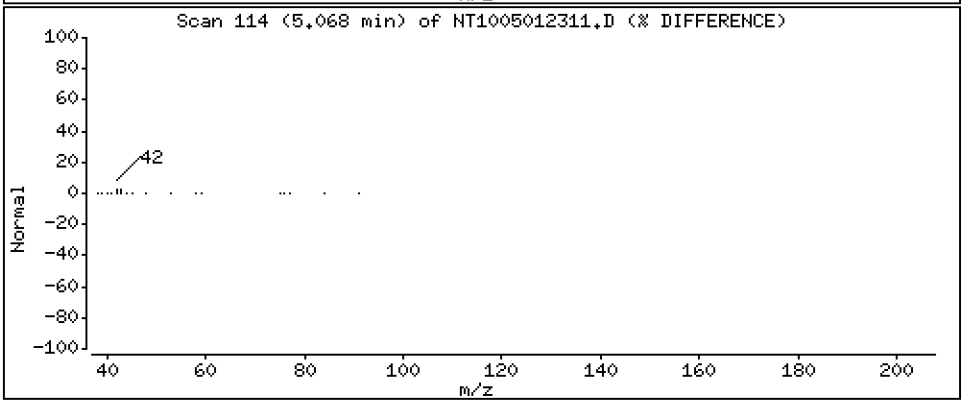












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

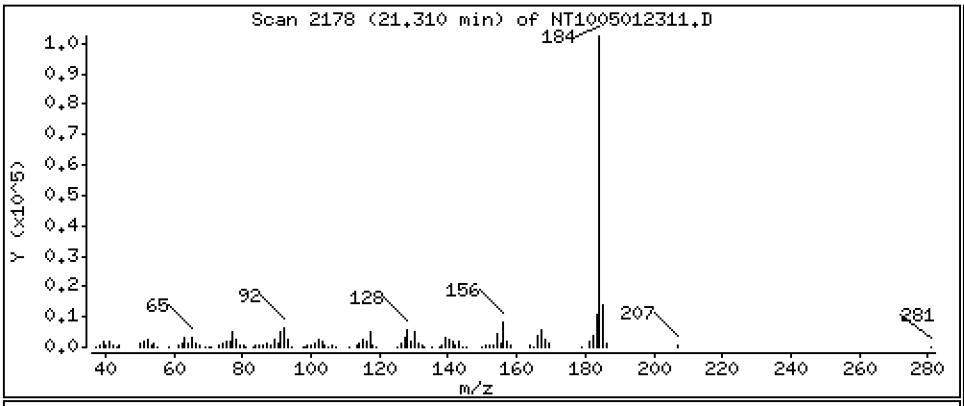
Operator: VTS

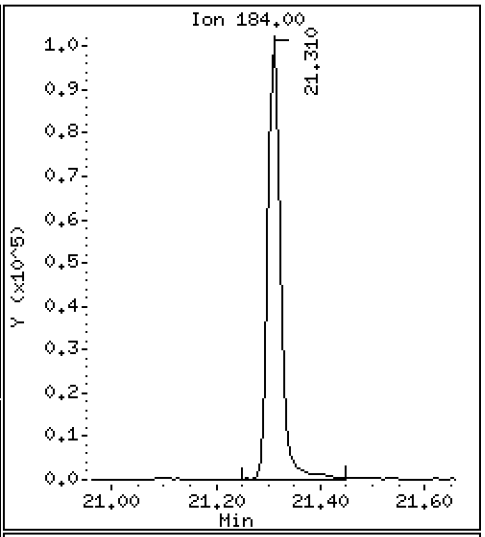
Column phase: ZB-5msi

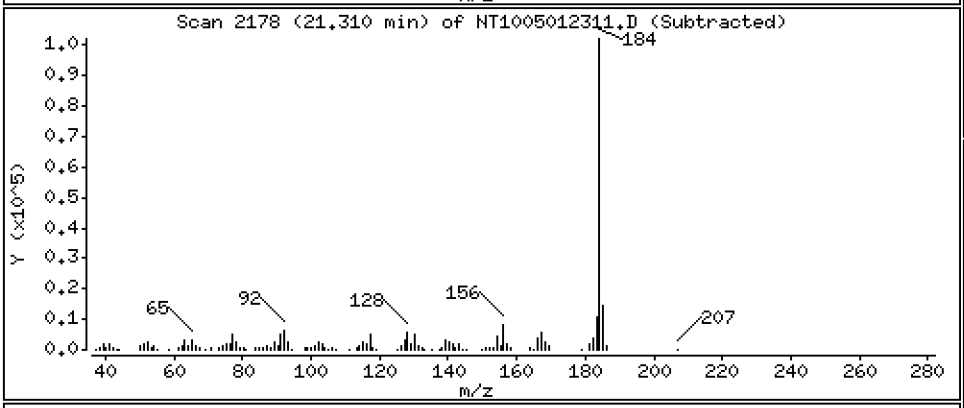
Column diameter: 0.25

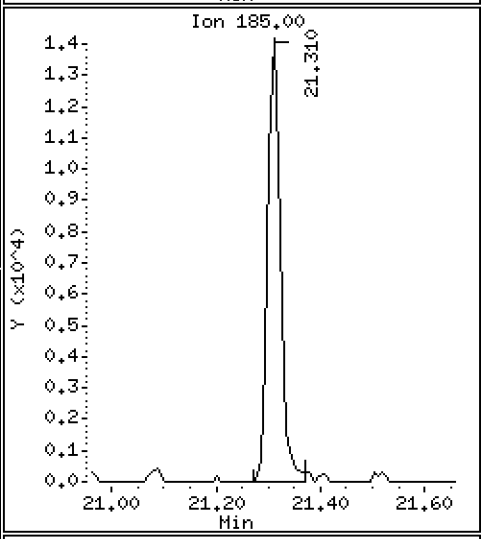
93 Benzidine

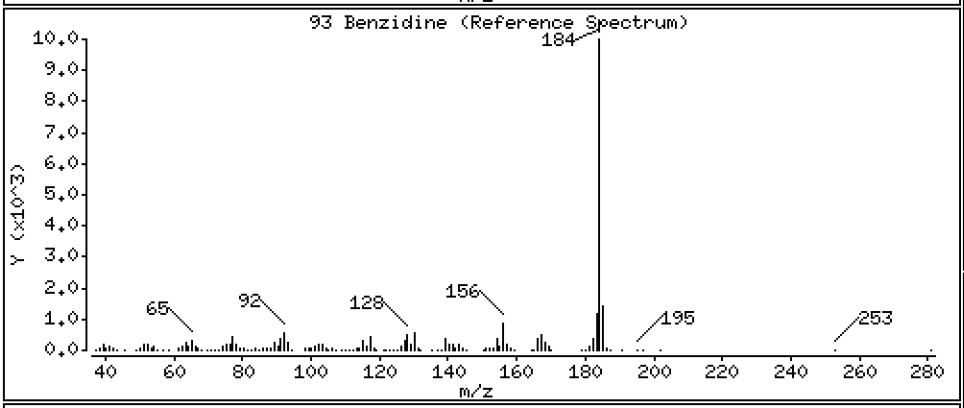
Concentration: 2.801 ug/mL

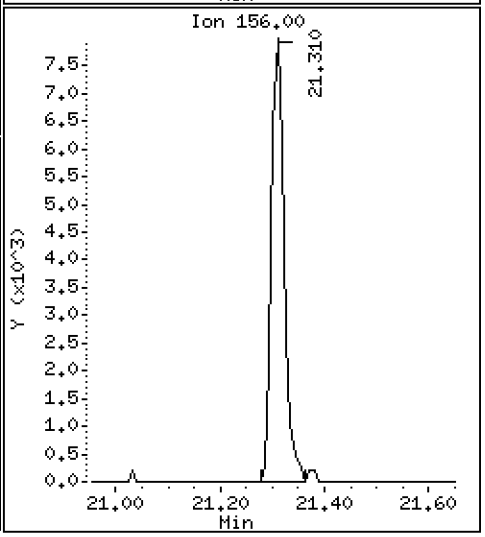


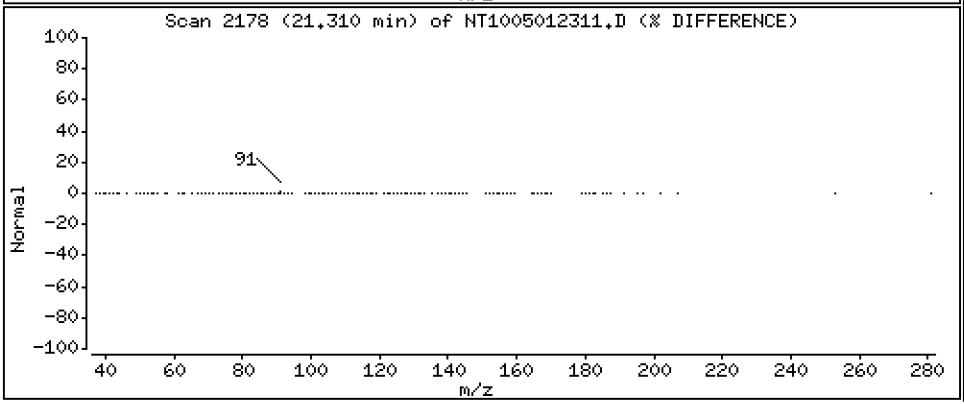












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

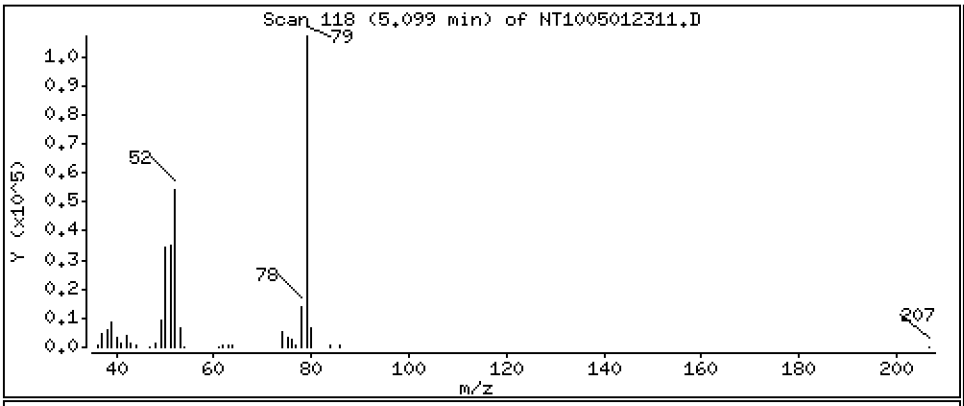
Operator: VTS

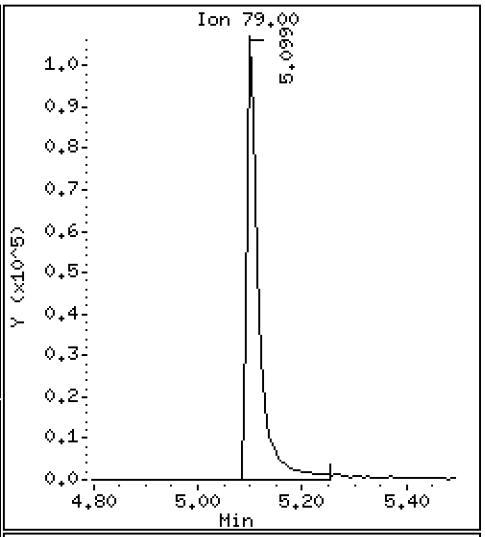
Column phase: ZB-5msi

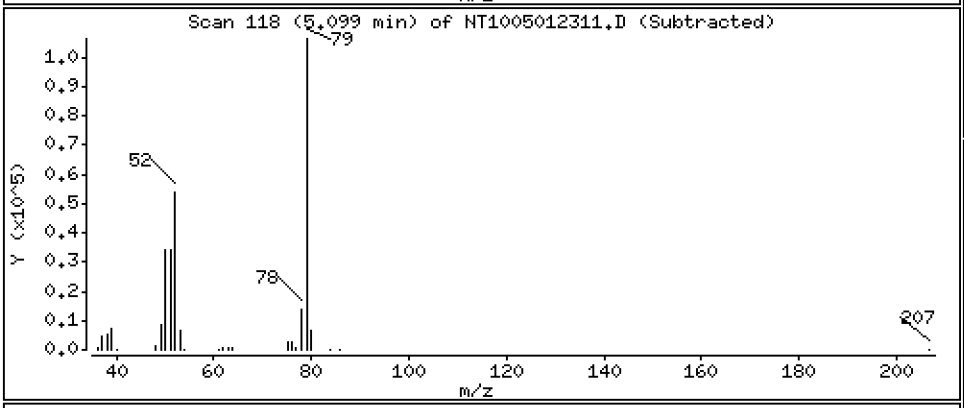
Column diameter: 0.25

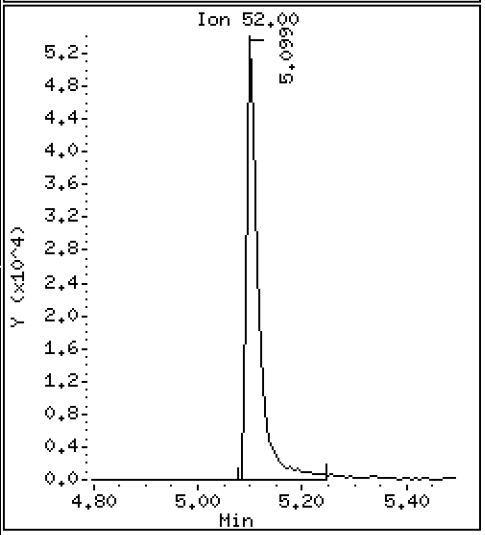
103 Pyridine

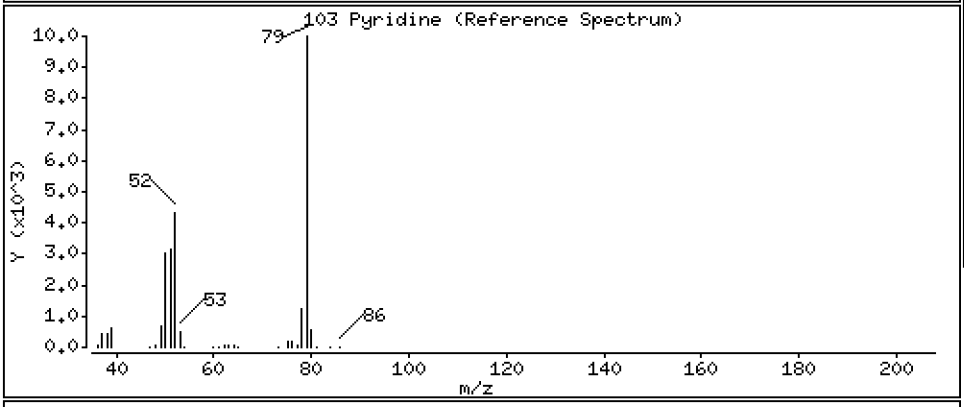
Concentration: 5.329 ug/mL

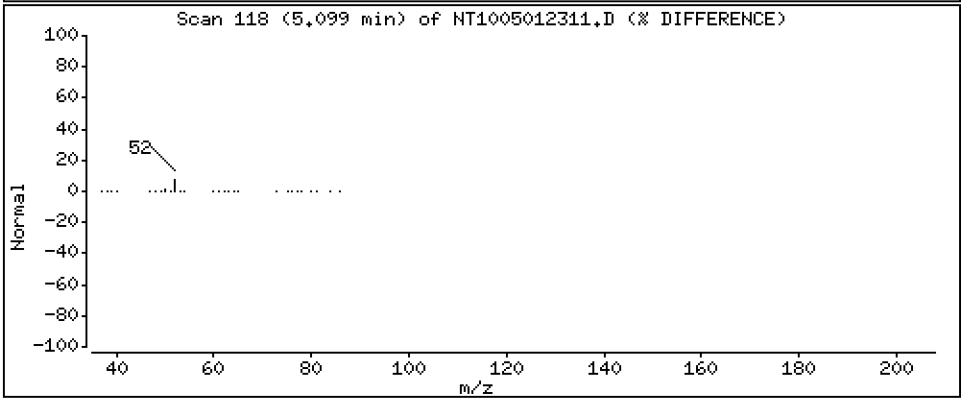












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

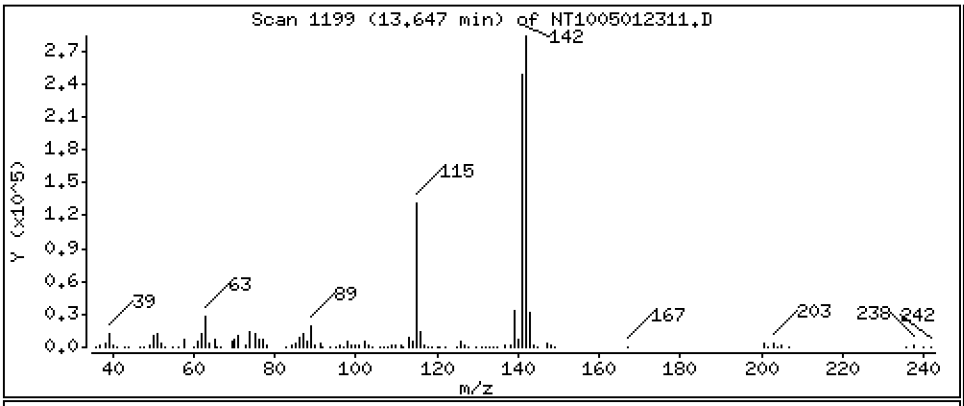
Operator: VTS

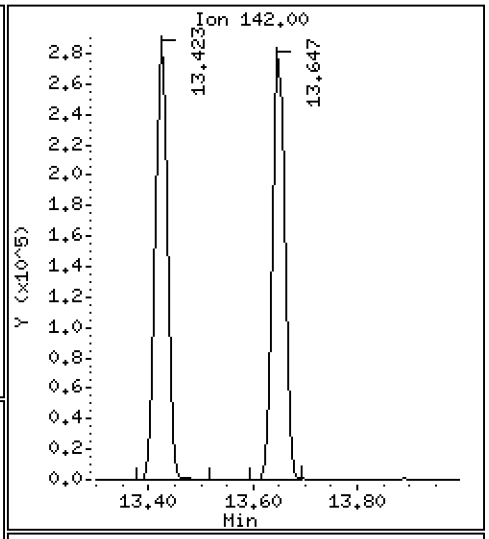
Column phase: ZB-5msi

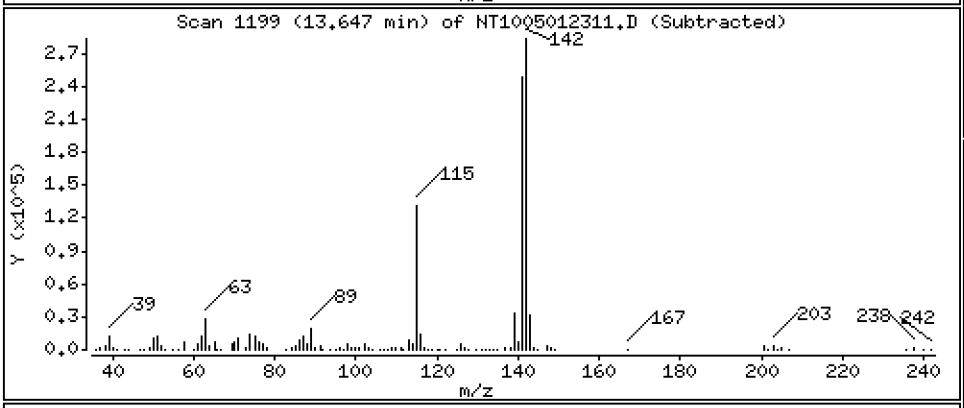
Column diameter: 0.25

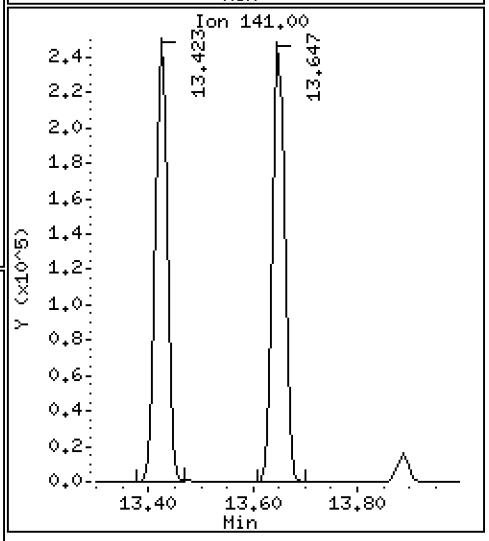
105 1-methylnaphthalene

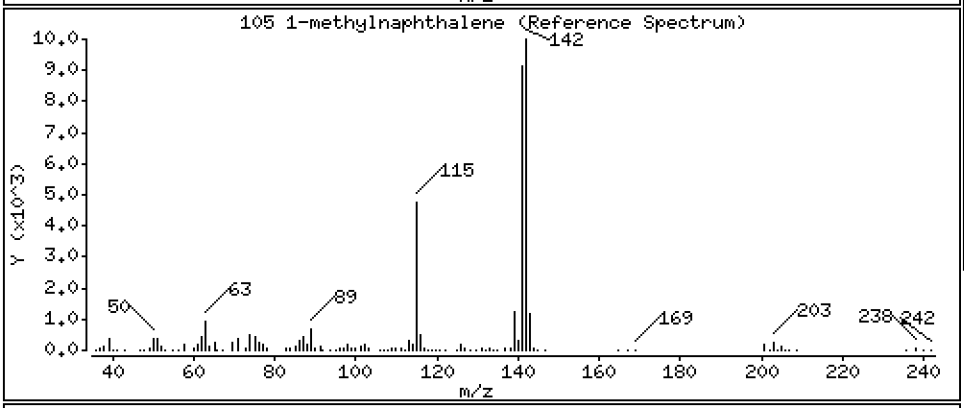
Concentration: 4.835 ug/mL

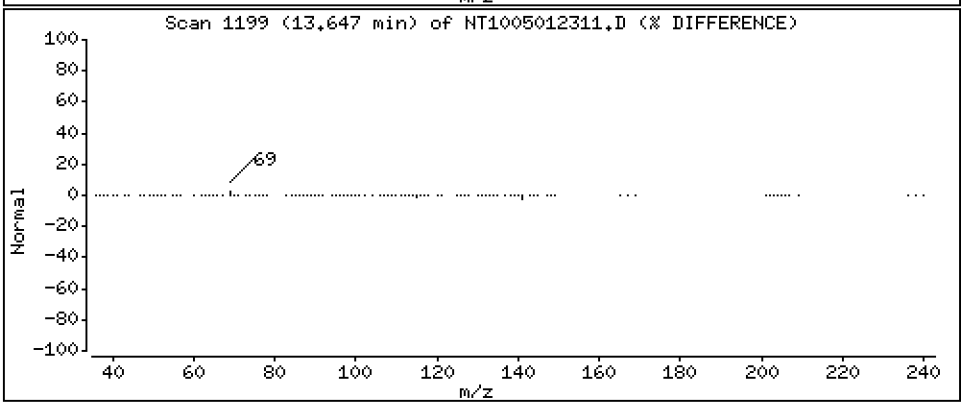












Data File: \\target\share\chem3\nt10.i\20230501.b\NT1005012311.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

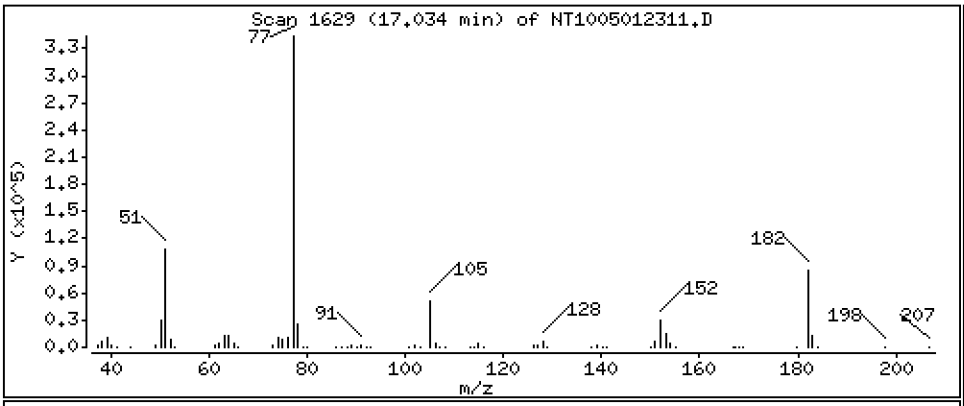
Operator: VTS

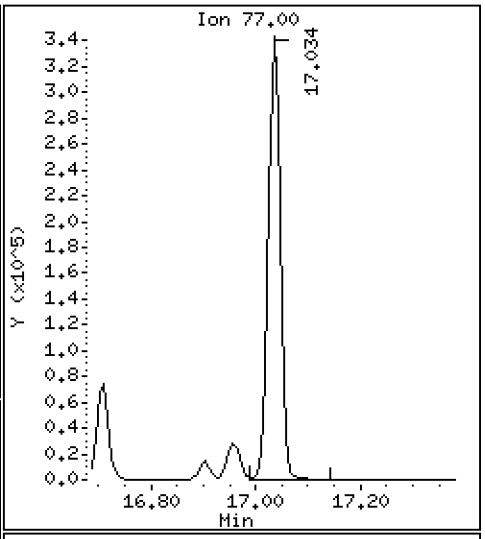
Column phase: ZB-5msi

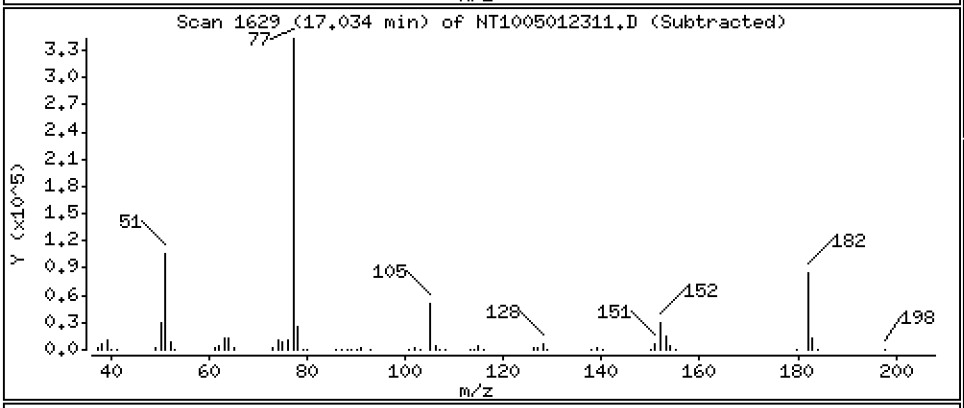
Column diameter: 0.25

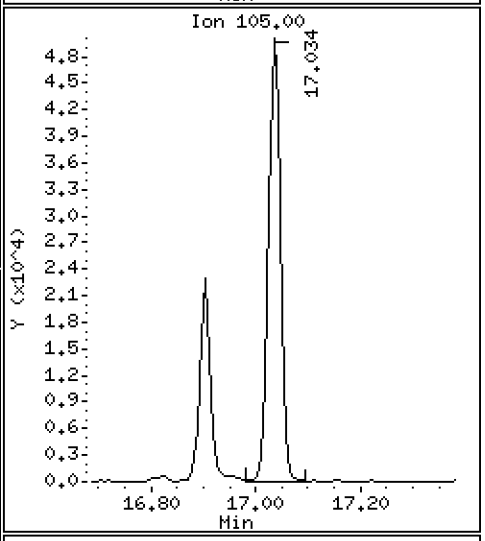
111 Azobenzene (1,2-DP-Hydrazine)

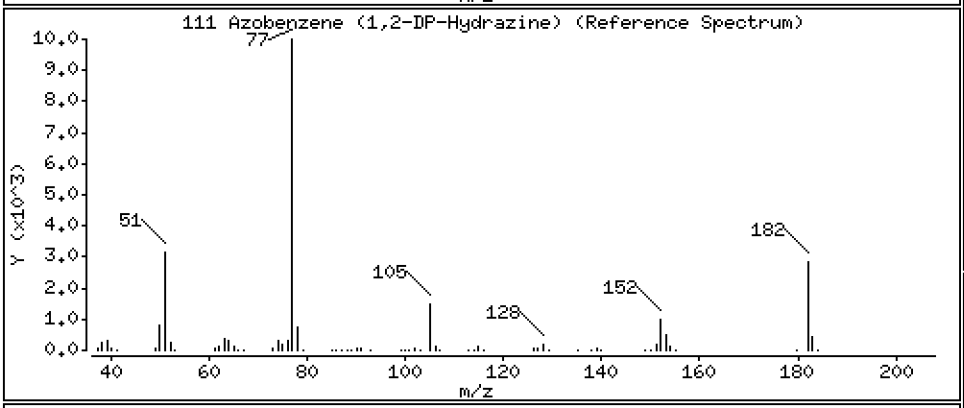
Concentration: 5.141 ug/mL

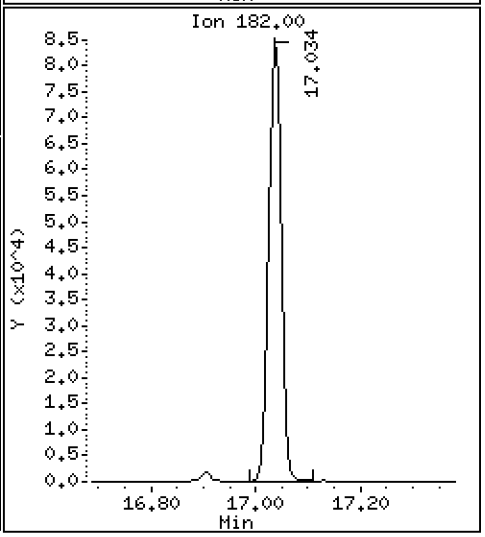


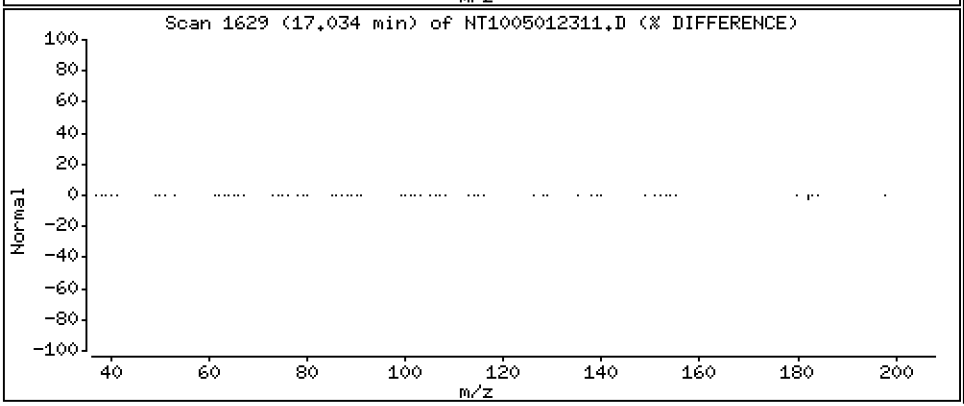












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

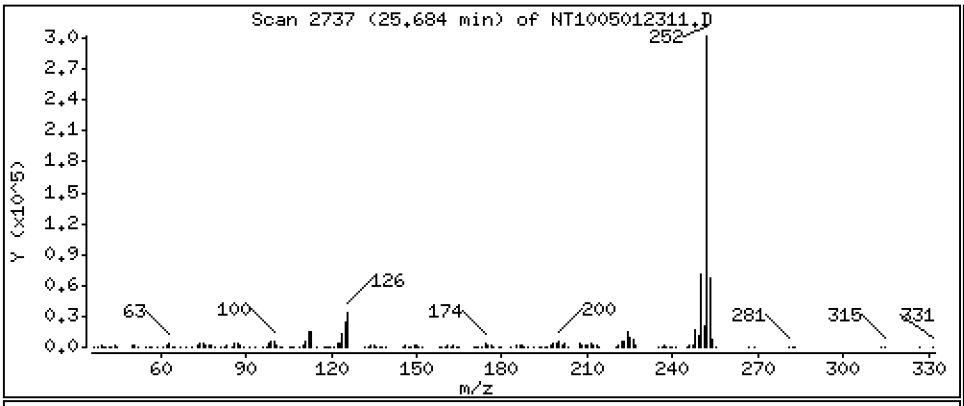
Operator: VTS

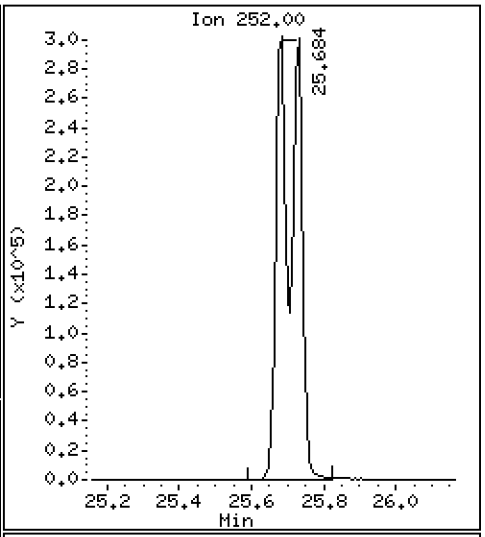
Column phase: ZB-5msi

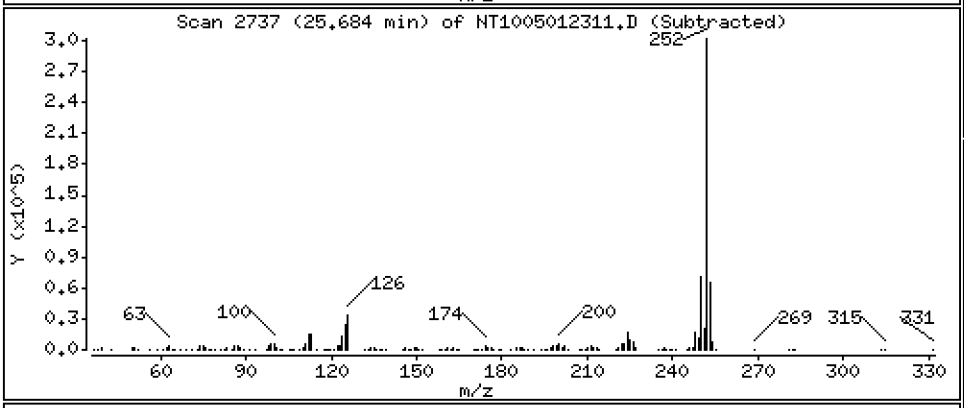
Column diameter: 0.25

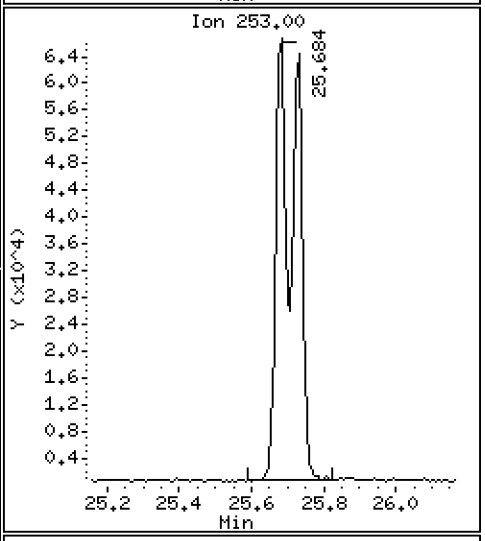
187 Total Benzofluoranthenes

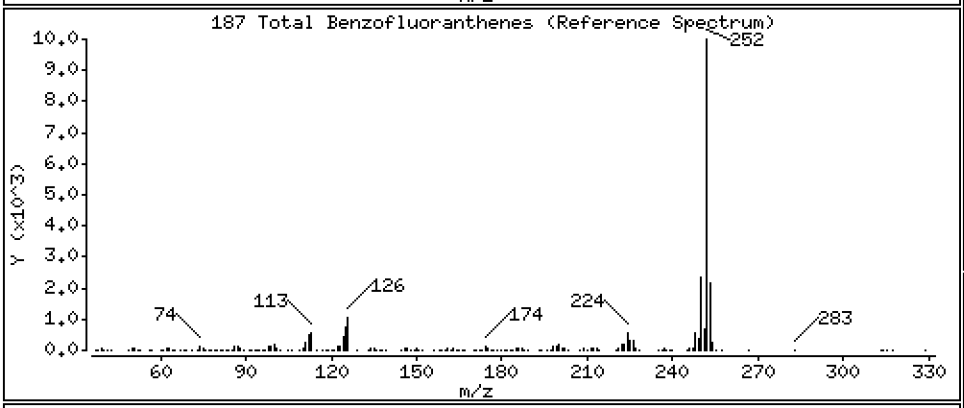
Concentration: 9.184 ug/mL

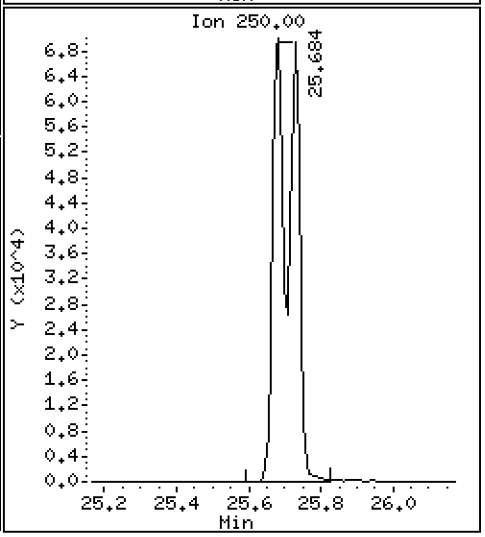


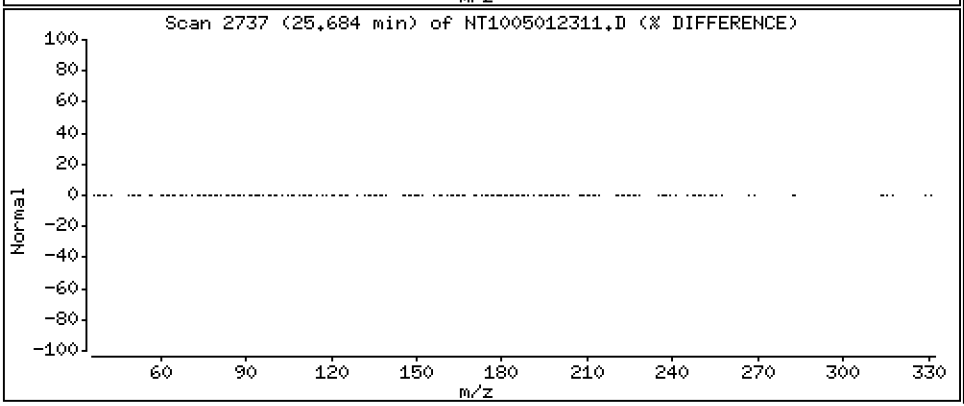












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0036-SCV1

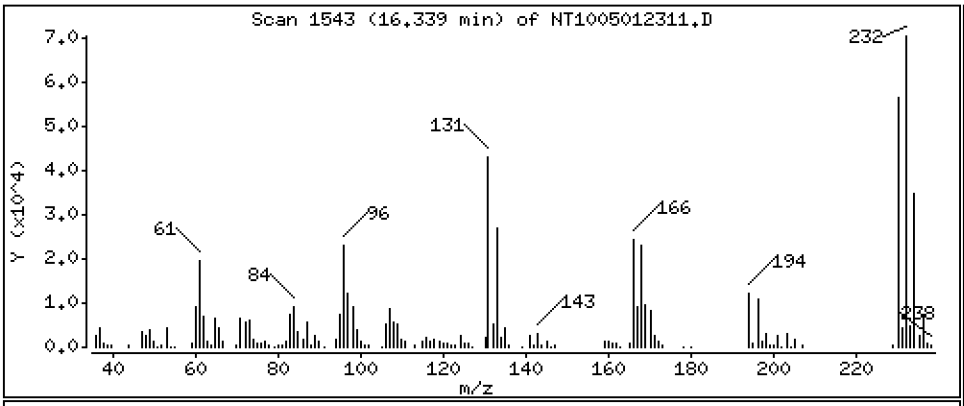
Operator: VTS

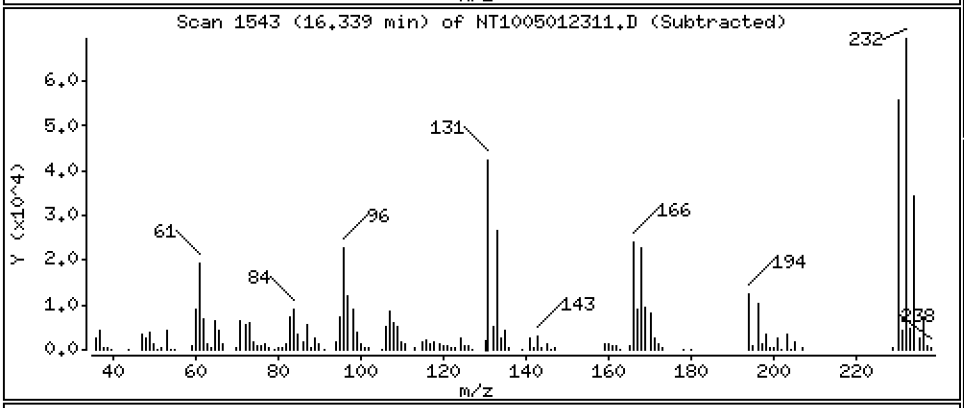
Column phase: ZB-5msi

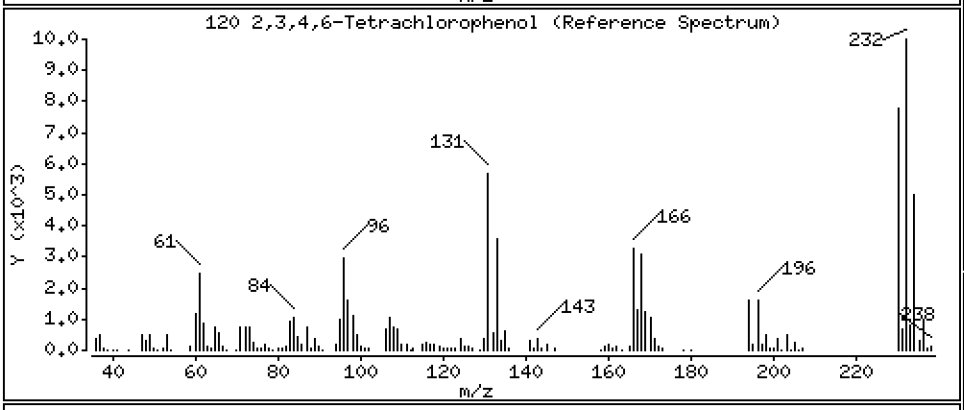
Column diameter: 0.25

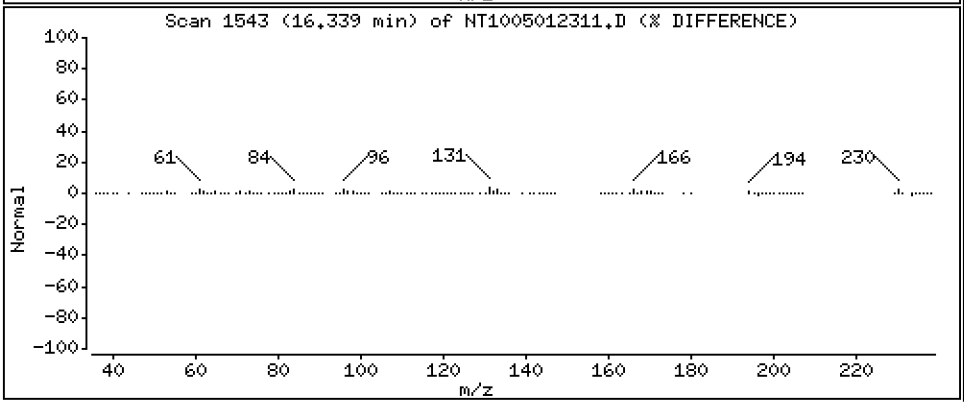
120 2,3,4,6-Tetrachlorophenol

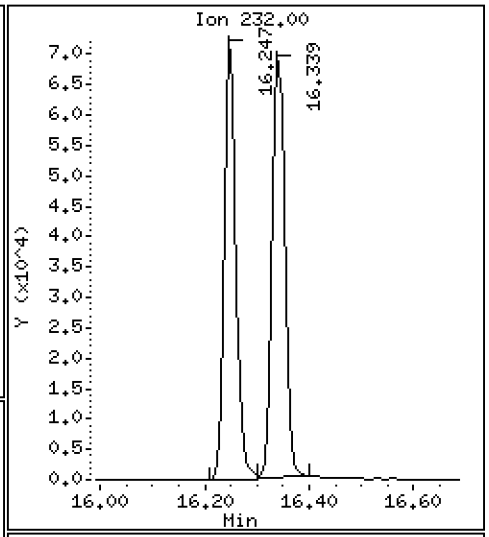
Concentration: 3.691 ug/mL

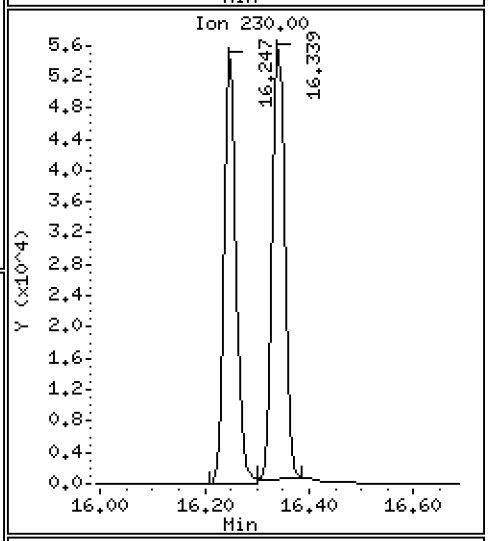


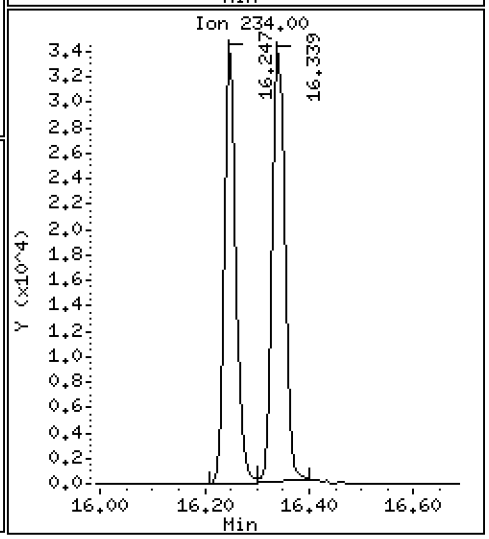












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 01-MAY-2023 20:43
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0036-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Meth Date : 02-May-2023 15:27 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$ 1	2-Fluorophenol	112	Compound Not Detected.						
$ 2	Phenol-d5	99	Compound Not Detected.						
3	Phenol	94	8.837	8.837	(1.000)	225316	4.48333	4.483	
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.						
4	Bis(2-Chloroethyl)ether	93	9.023	9.023	(1.000)	200069	5.50170	5.502	
6	2-Chlorophenol	128	9.146	9.146	(1.000)	197459	4.45581	4.456	
7	1,3-Dichlorobenzene	146	9.425	9.425	(1.000)	246622	4.93946	4.939	
* 8	1,4-Dichlorobenzene-d4	152	9.487	9.487	(1.000)	128837	4.00000		(M)
9	1,4-Dichlorobenzene	146	9.518	9.518	(1.000)	269341	5.49159	5.492	
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.						
12	1,2-Dichlorobenzene	146	9.875	9.875	(1.000)	235118	4.93763	4.938	
11	Benzyl alcohol	108	9.751	9.750	(1.000)	122452	5.06918	5.069	
14	2,2'-oxybis(1-Chloropropane)	121	10.053	10.046	(1.000)	77053	5.60278	5.603	
13	2-Methylphenol	108	9.960	9.960	(1.000)	156011	4.23248	4.232	
17	Hexachloroethane	117	10.473	10.472	(1.000)	111876	5.27548	5.275	
16	N-Nitroso-di-n-propylamine	70	10.310	10.309	(1.000)	157237	5.38567	5.386	
15	4-Methylphenol	108	10.232	10.232	(1.000)	196502	4.44066	4.441	
$ 18	Nitrobenzene-d5	82	Compound Not Detected.						
19	Nitrobenzene	77	10.628	10.628	(0.886)	251823	4.97032	4.970	
20	Isophorone	82	11.070	11.062	(0.923)	475152	7.87757	7.878	
21	2-Nitrophenol	139	11.257	11.249	(0.939)	104749	3.89627	3.896	
22	2,4-Dimethylphenol	107	11.283	11.283	(0.941)	169403	3.42401	3.424	
23	Bis(2-Chloroethoxy)methane	93	11.486	11.486	(0.958)	221150	5.73564	5.736	
24	Benzoic acid	105	11.427	11.359	(0.953)	253834	7.38578	7.386	
25	2,4-Dichlorophenol	162	11.699	11.698	(0.976)	174106	4.47956	4.480	
26	1,2,4-Trichlorobenzene	180	11.898	11.898	(0.992)	243710	4.37789	4.378	
* 27	Naphthalene-d8	136	11.991	11.983	(1.000)	469135	4.00000		
28	Naphthalene	128	12.030	12.022	(1.003)	620670	4.74201	4.742	
29	4-Chloroaniline	127	12.145	12.145	(1.013)	190542	3.95611	3.956	
30	Hexachlorobutadiene	225	12.385	12.377	(1.033)	142010	4.62571	4.626	
31	4-Chloro-3-methylphenol	107	13.089	13.089	(1.092)	188904	4.45976	4.460	
32	2-Methylnaphthalene	142	13.422	13.422	(1.119)	441670	4.51323	4.513	
33	Hexachlorocyclopentadiene	237	13.886	13.886	(0.889)	151577	4.67268	4.673	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.041	14.041	(0.899)	134602	4.21230	4.212
	35	2,4,5-Trichlorophenol	196	14.111	14.111	(0.903)	140409	4.02943	4.029
$	36	2-Fluorobiphenyl	172	14.204	14.203	(0.909)	2537	0.02246	0.02246
	37	2-Chloronaphthalene	162	14.428	14.420	(0.924)	429636	4.83017	4.830
	38	2-Nitroaniline	65	14.676	14.676	(0.940)	129919	5.02932	5.029
	39	Dimethylphthalate	163	15.101	15.101	(0.967)	490864	4.90763	4.908
	40	Acenaphthylene	152	15.303	15.303	(0.980)	663079	4.77574	4.776
	41	2,6-Dinitrotoluene	165	15.249	15.248	(0.976)	110074	4.87568	4.876
*	42	Acenaphthene-d10	164	15.620	15.612	(1.000)	260867	4.00000	
	43	3-Nitroaniline	138	15.535	15.527	(0.995)	106140	4.77608	4.776
	44	Acenaphthene	153	15.682	15.682	(1.004)	416452	4.71606	4.716
	45	2,4-Dinitrophenol	184	15.744	15.743	(1.008)	41326	2.37611	2.376
	46	Dibenzofuran	168	16.006	16.006	(1.025)	598046	4.64493	4.645
	47	4-Nitrophenol	109	15.829	15.828	(1.013)	82973	3.99163	3.992
	48	2,4-Dinitrotoluene	165	16.061	16.060	(1.028)	141639	4.38106	4.381
	50	Diethylphthalate	149	16.563	16.555	(1.060)	524953	5.05491	5.055
	49	Fluorene	166	16.733	16.725	(1.071)	484223	4.55893	4.559
	51	4-Chlorophenyl-phenylether	204	16.710	16.702	(1.070)	253695	4.79663	4.797
	52	4-Nitroaniline	138	16.810	16.810	(1.076)	93244	4.29306	4.293
	53	4,6-Dinitro-2-methylphenol	198	16.903	16.902	(0.905)	70705	3.75964	3.760
	54	N-Nitrosodiphenylamine	169	16.957	16.956	(0.908)	324810	5.12520	5.125
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	177	0.01417	0.01417
	56	4-Bromophenyl-phenylether	248	17.720	17.712	(0.949)	147865	4.94237	4.942
	57	Hexachlorobenzene	284	18.044	18.044	(0.966)	140819	4.68942	4.689
	58	Pentachlorophenol	266	18.401	18.393	(0.985)	80436	3.86584	3.866
*	59	Phenanthrene-d10	188	18.671	18.671	(1.000)	479585	4.00000	
	60	Phenanthrene	178	18.718	18.718	(1.002)	645346	4.58600	4.586
	61	Anthracene	178	18.818	18.811	(1.008)	542159	4.16924	4.169
	62	Carbazole	167	19.136	19.136	(1.025)	518357	4.50323	4.503
	63	Di-n-butylphthalate	149	19.902	19.901	(1.066)	862725	4.89550	4.895
	64	Fluoranthene	202	21.085	21.085	(0.890)	774676	4.73795	4.738
	65	Pyrene	202	21.511	21.503	(0.908)	757130	4.63549	4.635
$	66	Terphenyl-d14	244	21.782	21.774	(0.919)	2912	0.02254	0.02254
	67	Butylbenzylphthalate	149	22.695	22.687	(0.958)	349577	4.77781	4.778
	68	Benzo(a)anthracene	228	23.663	23.655	(0.999)	683788	4.71653	4.717
*	69	Chrysene-d12	240	23.694	23.686	(1.000)	366214	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.617	23.601	(0.997)	467557	10.2140	10.21
	71	Chrysene	228	23.741	23.733	(1.002)	589116	4.54006	4.540
	72	bis(2-Ethylhexyl)phthalate	149	23.710	23.702	(0.958)	493652	5.40606	5.406
*	134	Di-n-octylphthalate-d4	153	24.739	24.724	(1.000)	633915	4.00000	
	73	Di-n-octylphthalate	149	24.747	24.739	(1.000)	863084	5.16068	5.161
	74	Benzo(b)fluoranthene	252	25.684	25.660	(0.968)	641646	4.78532	4.785
	75	Benzo(k)fluoranthene	252	25.730	25.715	(0.970)	593022	4.45695	4.457
	76	Benzo(a)pyrene	252	26.404	26.388	(0.995)	537284	4.78725	4.787
*	77	Perylene-d12	264	26.536	26.520	(1.000)	326407	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.514	29.483	(1.112)	630589	4.67700	4.677
	79	Dibenzo(a,h)anthracene	278	29.522	29.491	(1.113)	524960	4.64906	4.649
	80	Benzo(g,h,i)perylene	276	30.392	30.353	(1.145)	500646	4.65862	4.659
	90	N-Nitrosodimethylamine	74	5.067	5.083	(1.000)	109300	5.19047	5.190
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.310	21.310	(0.899)	165444	2.80075	2.801
	103	Pyridine	79	5.098	5.144	(1.000)	176959	5.32922	5.329
	105	1-methylnaphthalene	142	13.646	13.646	(1.138)	433828	4.83538	4.835
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.034	(1.091)	521542	5.14057	5.141

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.684	25.660	(0.968)	1185382	9.18410	9.184
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.339	(1.046)	111498	3.69091	3.691

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311.D
Lab Smp Id: SLE0036-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 16:10
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	144303	72152	288606	128837	-10.72
27 Naphthalene-d8	493698	246849	987396	469135	-4.98
42 Acenaphthene-d10	279210	139605	558420	260867	-6.57
59 Phenanthrene-d10	521463	260732	1042926	479585	-8.03
69 Chrysene-d12	369911	184956	739822	366214	-1.00
134 Di-n-octylphthala	626668	313334	1253336	633915	1.16
77 Perylene-d12	311339	155670	622678	326407	4.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
134 Di-n-octylphthala	24.75	24.25	25.25	24.74	-0.03
77 Perylene-d12	26.55	26.05	27.05	26.54	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012311.D

Lab ID: SLE0036-SCV1
nt10.i, 20230501.b\ABN.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.000	1.059	-0.0589	2,2'-oxybis(1-Chloropropane)
0.953	0.948	0.0050	Benzoic acid

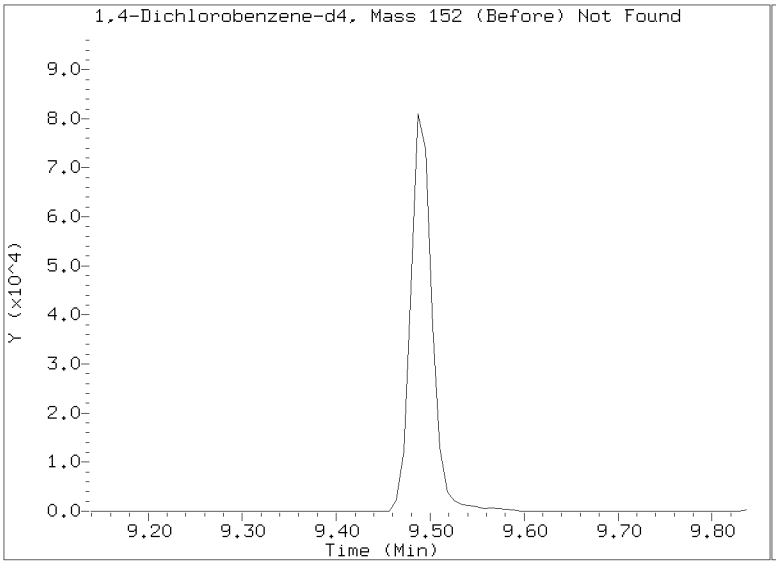
RRT check based on Ccal File: NT1005012308.D

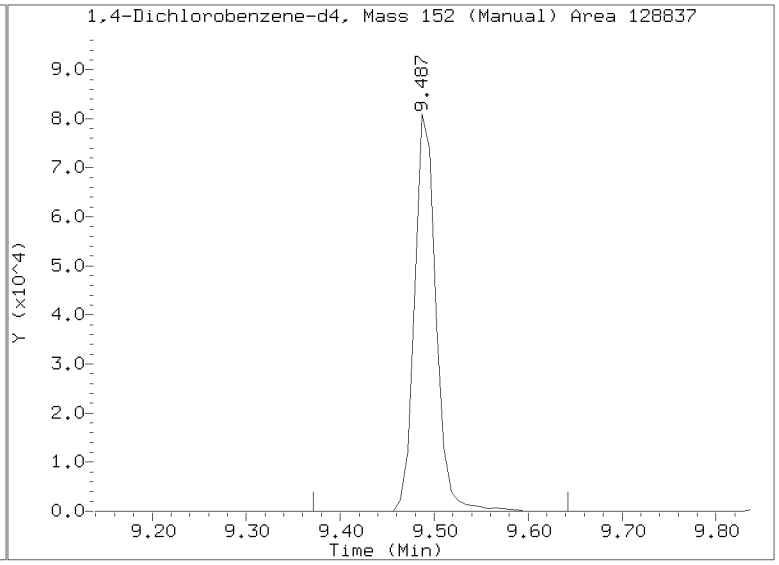
On Column LOD for nt10.i, 20230501.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/NT1005012311.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0036-SCV1 Client ID:
Report Date: 05/02/2023 15:38





APPROVED

By Deenay Dunmore at 2:15 pm, May 03, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00012
Lab File ID:	NT1005052315.D	Calibration Date:	05/01/2023
Sequence:	SLE0101	Injection Date:	05/05/23
Lab Sample ID:	SLE0101-CCV1	Injection Time:	19:50
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	5.4	1.5603090	1.7001080		9.0	+/-50
4-Methylphenol	A	5.0000	5.6	1.3738470	1.5353630		11.8	+/-50
Naphthalene	A	5.0000	4.8	1.1159900	1.0653000		-4.5	+/-50
2-Methylnaphthalene	A	5.0000	4.6	0.8343963	0.7759000		-7.0	+/-50
Acenaphthylene	A	5.0000	4.9	2.1289490	2.1010670		-1.3	+/-50
Dimethylphthalate	A	5.0000	4.9	1.5336640	1.4996490		-2.2	+/-50
Acenaphthene	A	5.0000	4.8	1.3540250	1.2995510		-4.0	+/-50
Dibenzofuran	A	5.0000	4.8	1.9742250	1.8980830		-3.9	+/-50
Fluorene	A	5.0000	4.7	1.6286350	1.5388400		-5.5	+/-50
Phenanthrene	A	5.0000	4.7	1.1736900	1.0950840		-6.7	+/-50
Anthracene	A	5.0000	4.9	1.0845870	1.0727810		-1.1	+/-50
Fluoranthene	A	5.0000	4.4	1.7858880	1.5847800		-11.3	+/-50
Pyrene	A	5.0000	4.6	1.7840190	1.6465250		-7.7	+/-50
Butylbenzylphthalate	A	5.0000	5.0	0.6671669	0.7911966		-0.8	+/-50
Benzo(a)anthracene	A	5.0000	4.7	1.5835210	1.4942620		-5.6	+/-50
Chrysene	A	5.0000	5.0	1.4173070	1.4174660		0.01	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	4.6	0.5761948	0.5351202		-7.1	+/-50
Benzofluoranthenes, Total	A	10.000	9.1	1.5816940	1.4372760		-9.1	+/-50
Benzo(a)pyrene	A	5.0000	4.6	1.3753650	1.2717140		-7.5	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	4.5	1.6522640	1.4960460		-9.5	+/-50
Dibenzo(a,h)anthracene	A	5.0000	4.6	1.3837630	1.2732850		-8.0	+/-50
Benzo(g,h,i)perylene	A	5.0000	4.5	1.3169650	1.1771080		-10.6	+/-50
2-Fluorophenol	A	7.5000	7.32	1.2103940	1.1810030		-2.4	+/-50
Phenol-d5	A	7.5000	7.98	1.4592840	1.5528080		6.4	+/-50
2-Chlorophenol-d4	A	7.5000	7.73	1.3984790	1.4410290		3.0	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.88	1.0316970	1.0061060		-2.5	+/-50
Nitrobenzene-d5	A	5.0000	5.18	0.4469969	0.4628683		3.6	+/-50
2-Fluorobiphenyl	A	5.0000	4.53	1.7317170	1.5691240		-9.4	+/-50
2,4,6-Tribromophenol	A	7.5000	6.51	0.1786492	0.1725987		-13.2	+/-50
p-Terphenyl-d14	A	5.0000	4.31	1.4109530	1.2163080		-13.8	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Page 1

Date : 05-MAY-2023 19:50

Client ID:

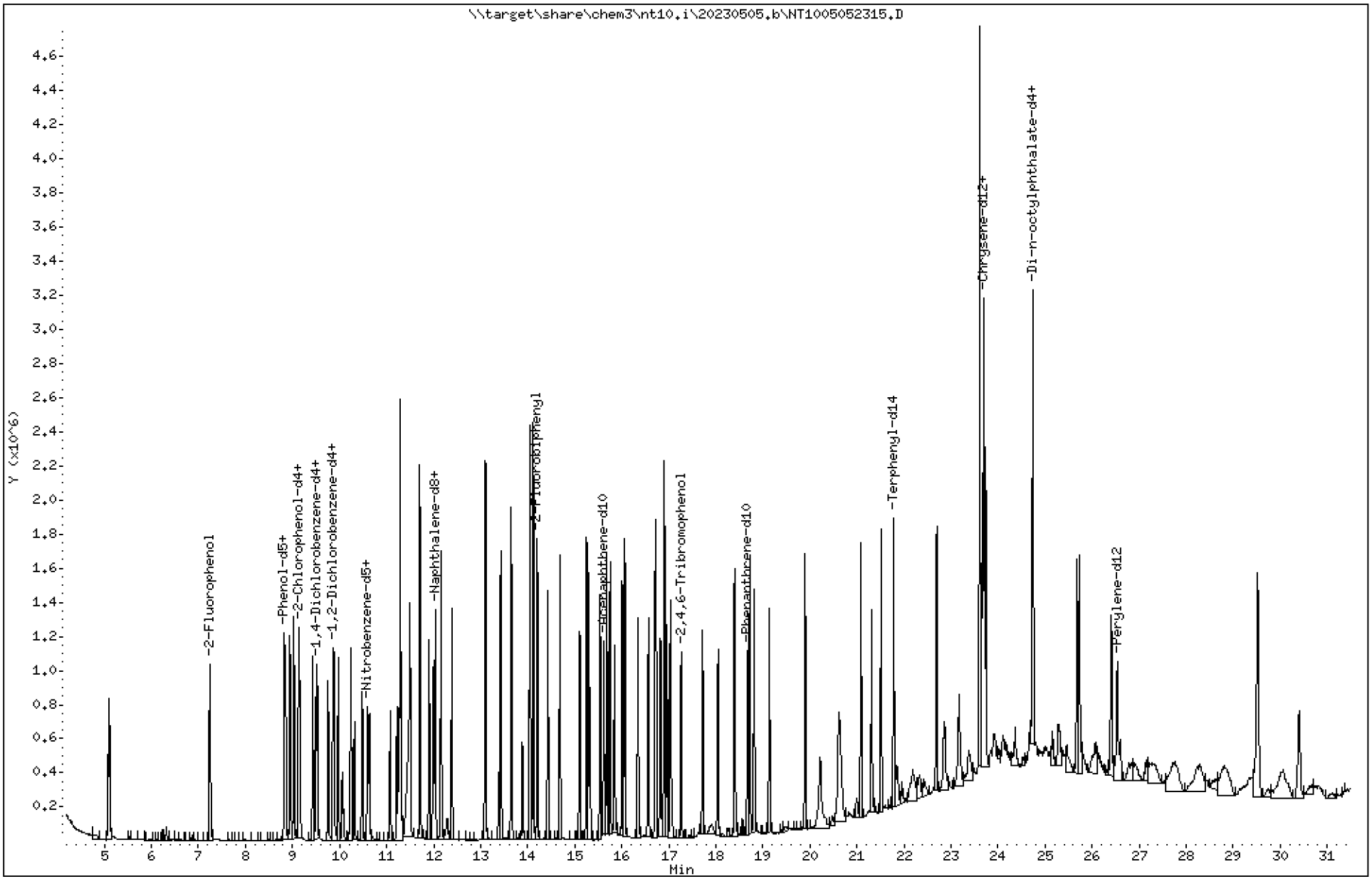
Instrument: nt10.i

Sample Info: SLE0101-CCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1178 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

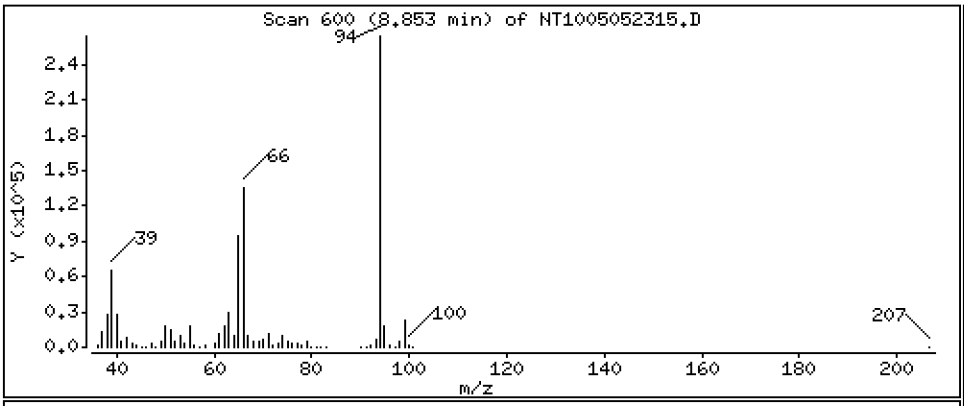
Operator: VTS

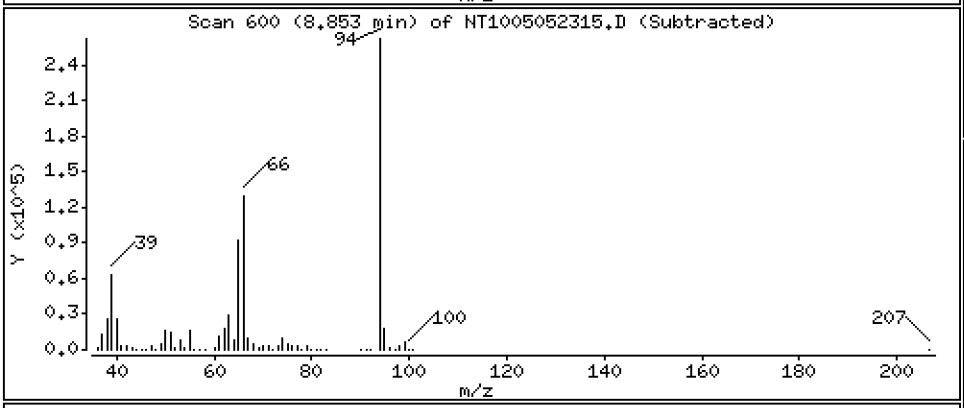
Column phase: ZB-5msi

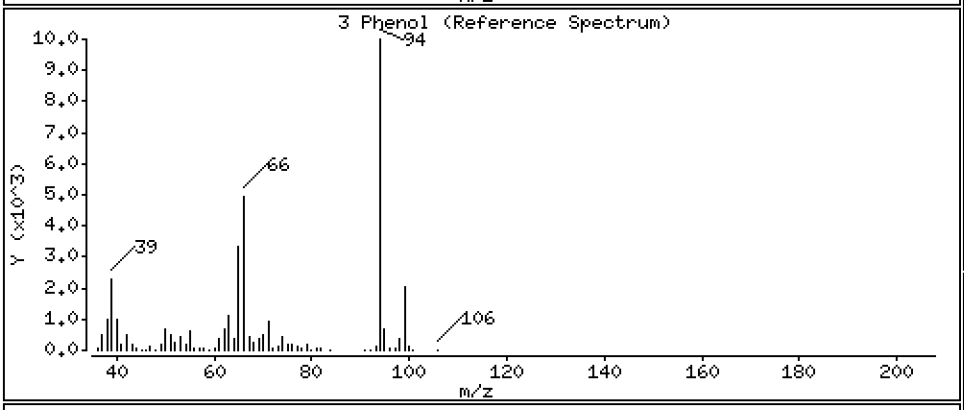
Column diameter: 0.25

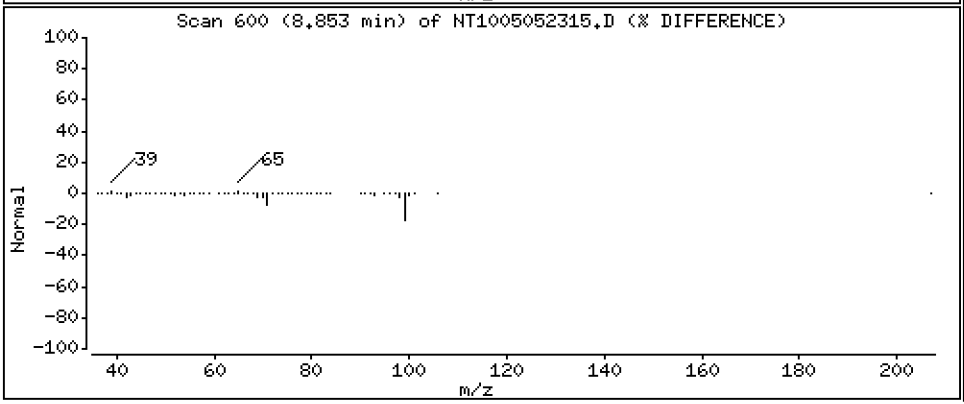
3 Phenol

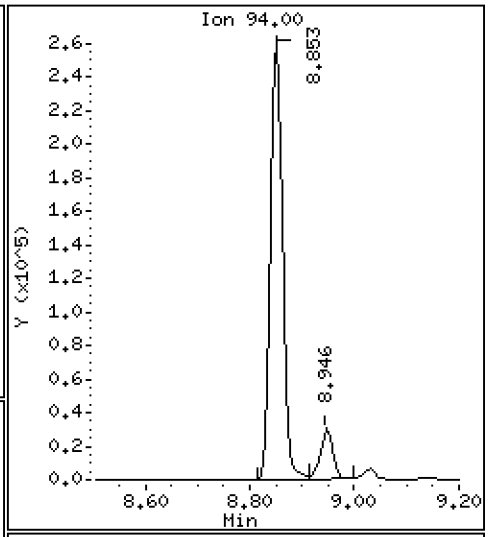
Concentration: 5.448 ug/mL

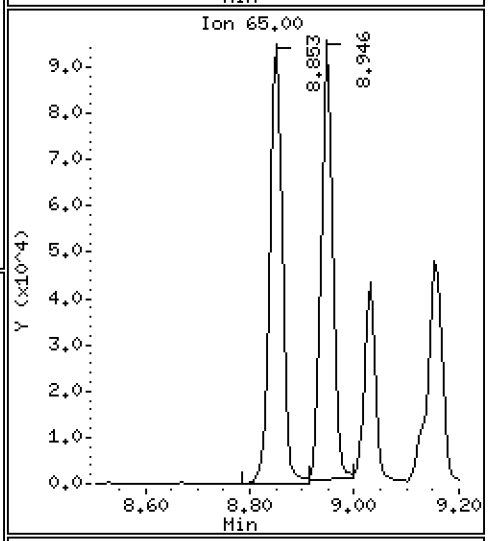


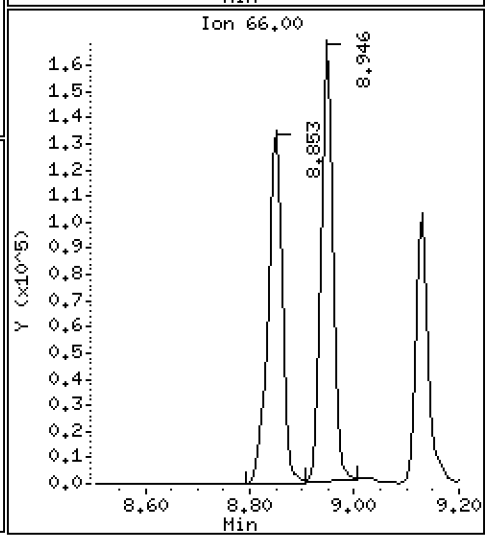












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

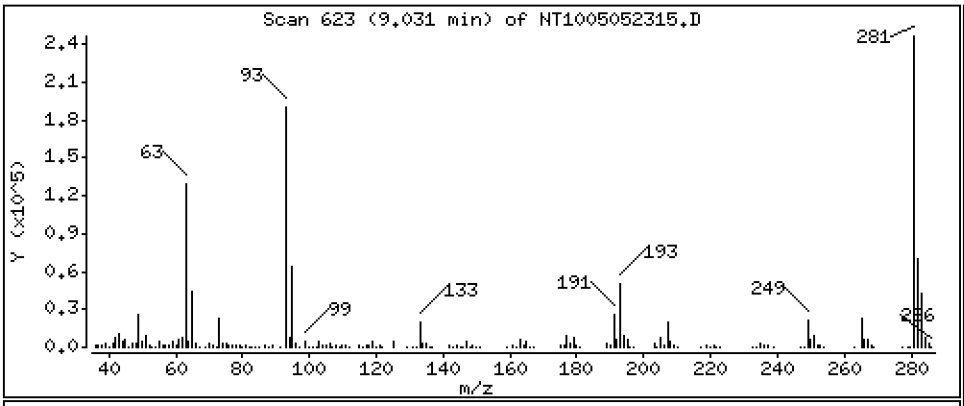
Operator: VTS

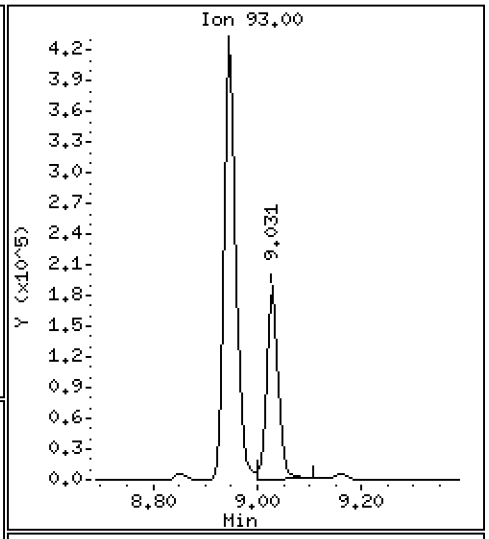
Column phase: ZB-5msi

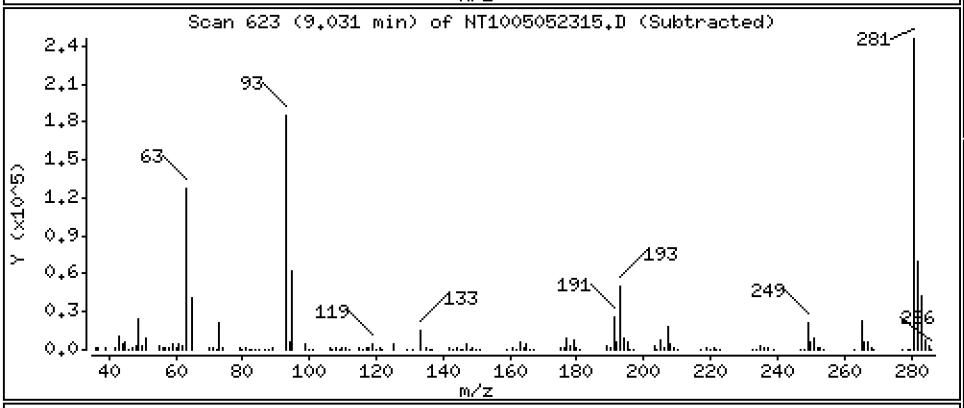
Column diameter: 0.25

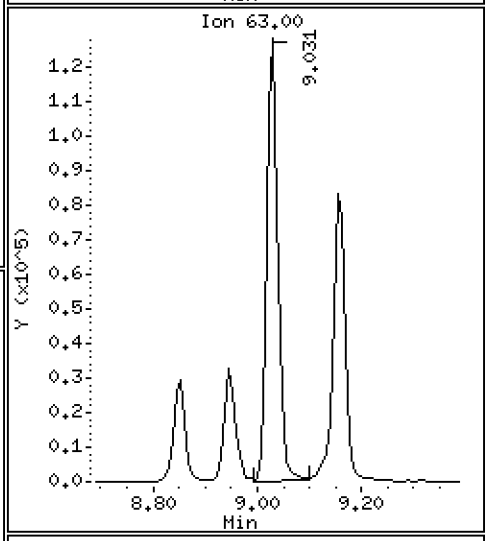
4 Bis(2-Chloroethyl)ether

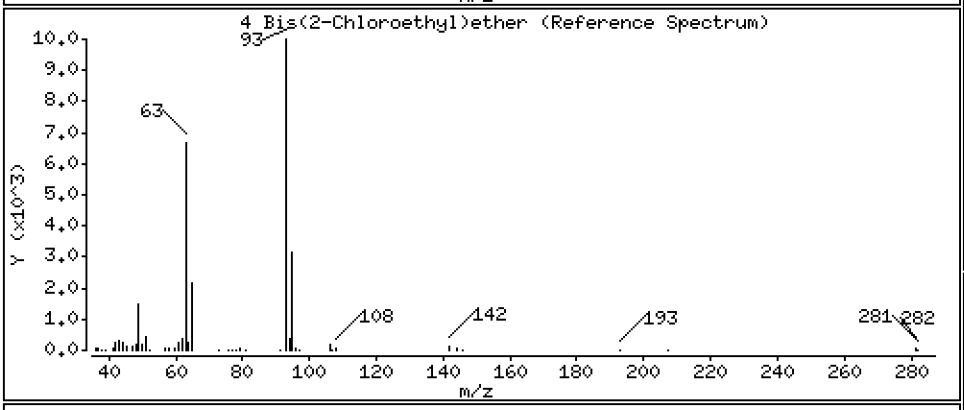
Concentration: 5.325 ug/mL

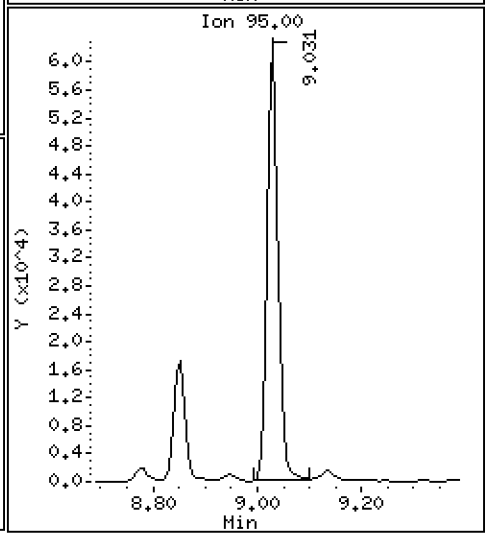


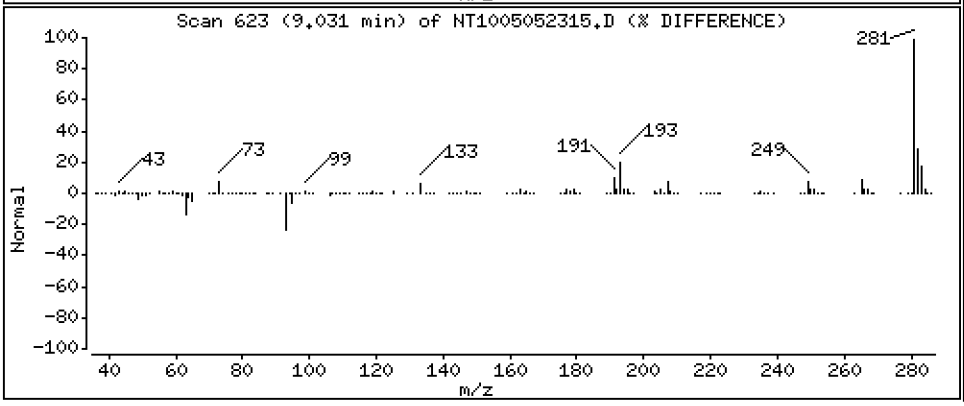












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

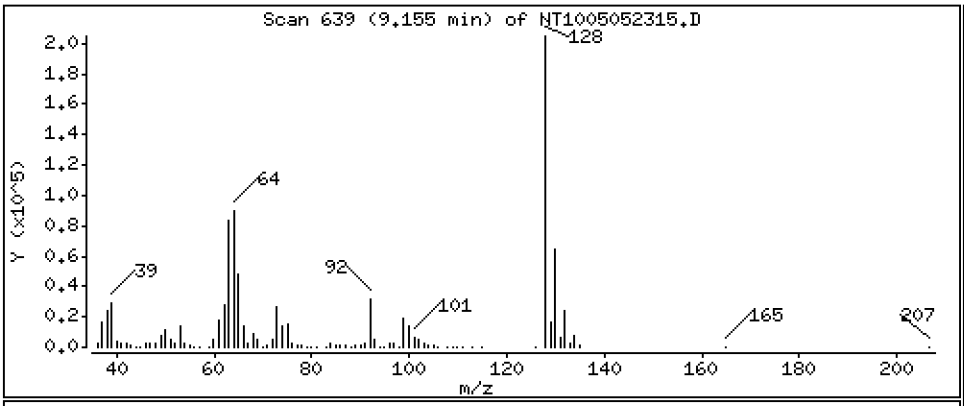
Operator: VTS

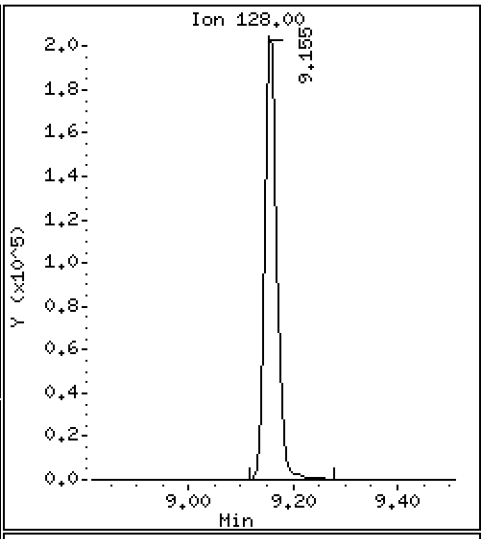
Column phase: ZB-5msi

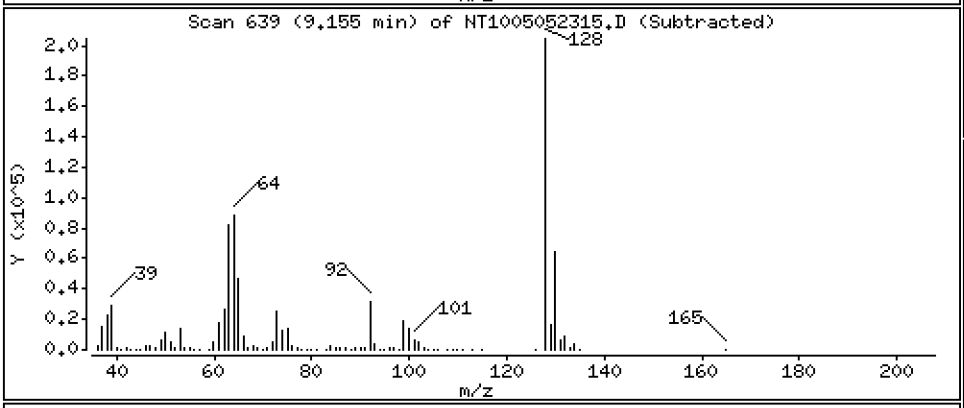
Column diameter: 0.25

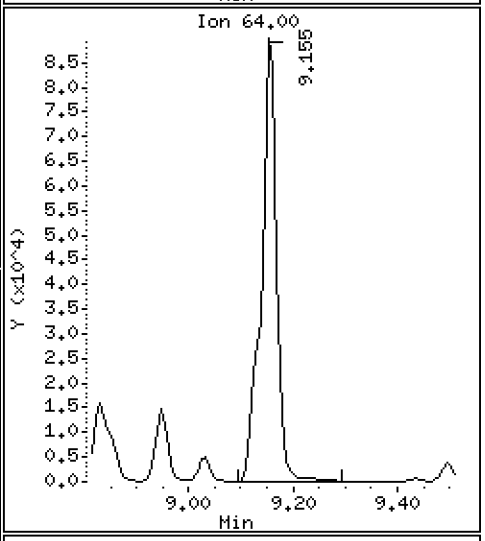
6 2-Chlorophenol

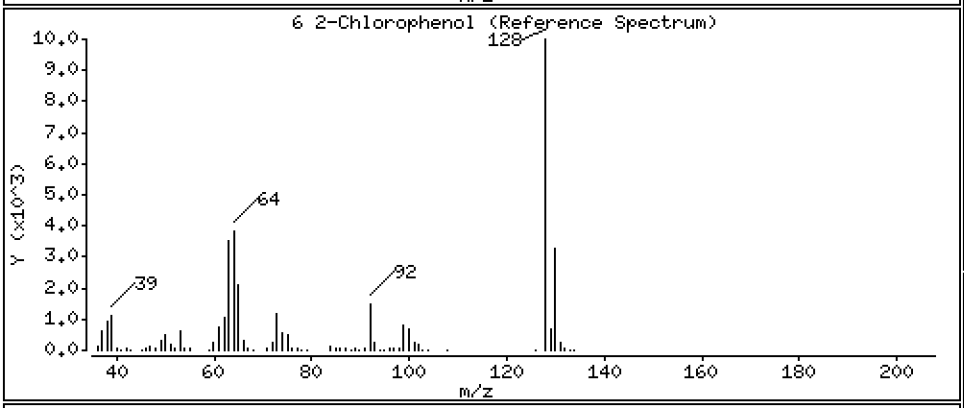
Concentration: 5.216 ug/mL

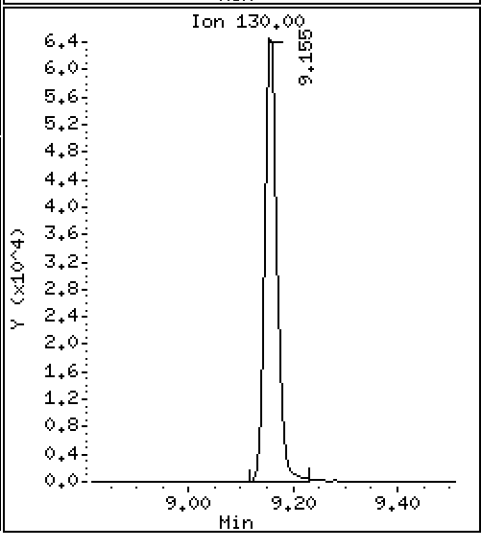


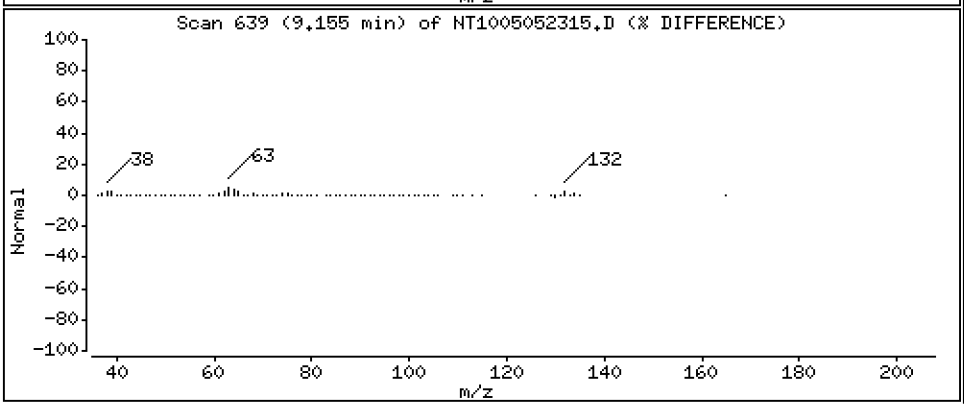












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

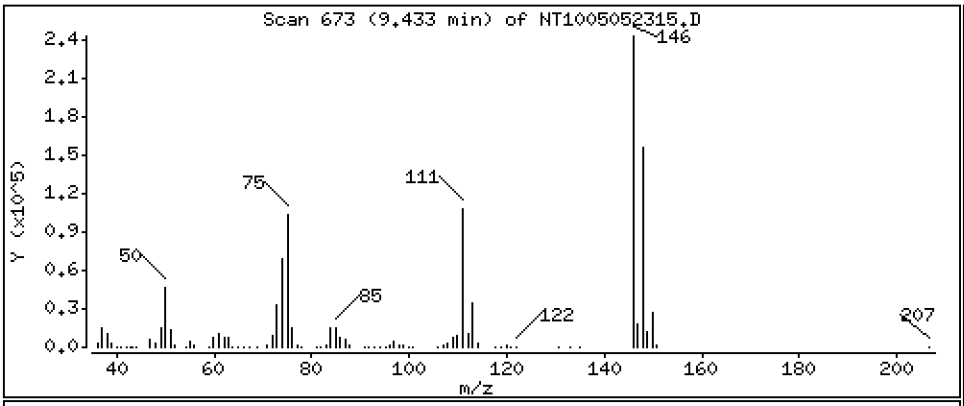
Operator: VTS

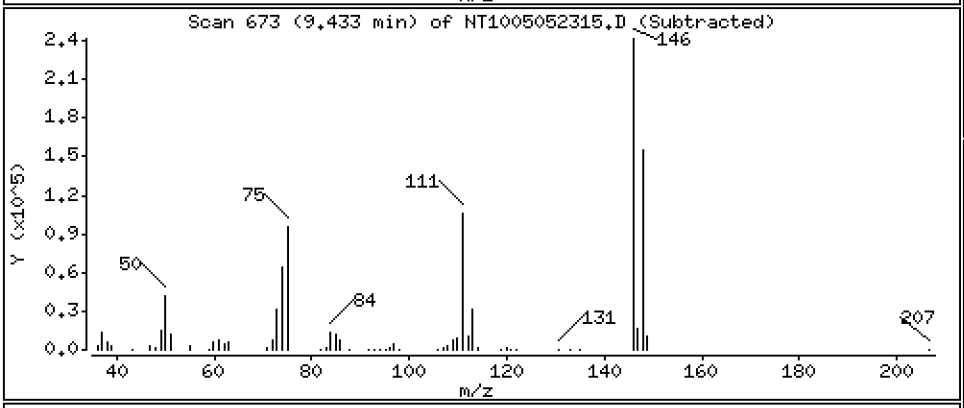
Column phase: ZB-5msi

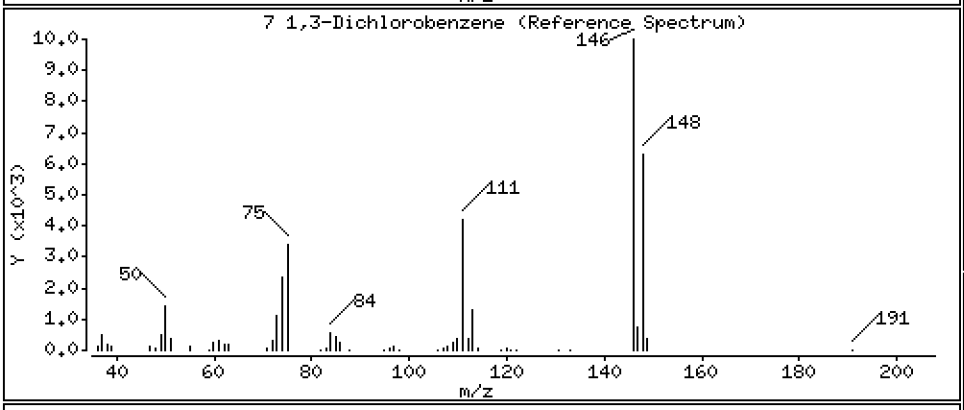
Column diameter: 0.25

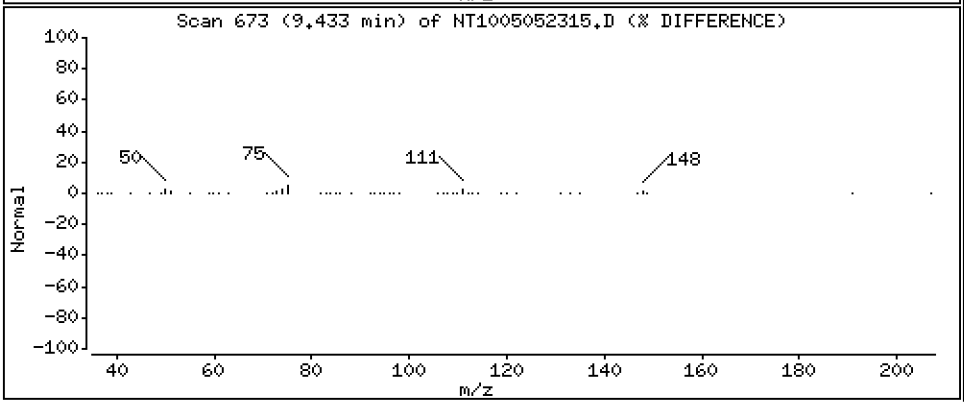
7 1,3-Dichlorobenzene

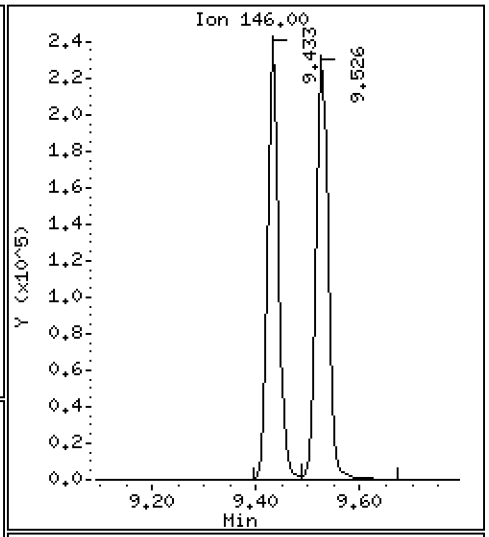
Concentration: 4.981 ug/mL

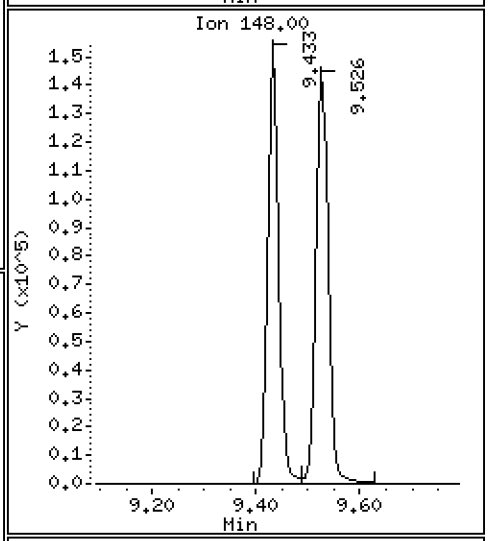


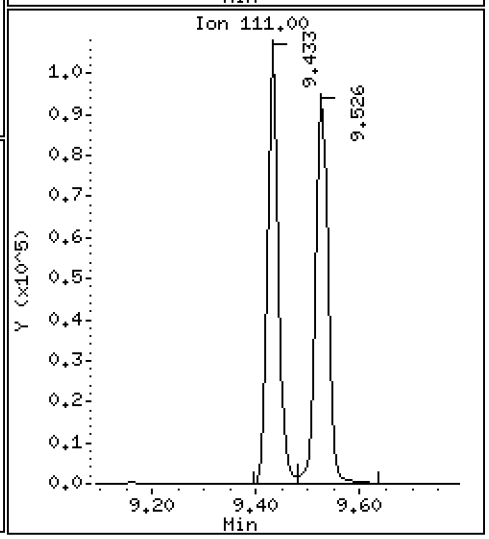












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

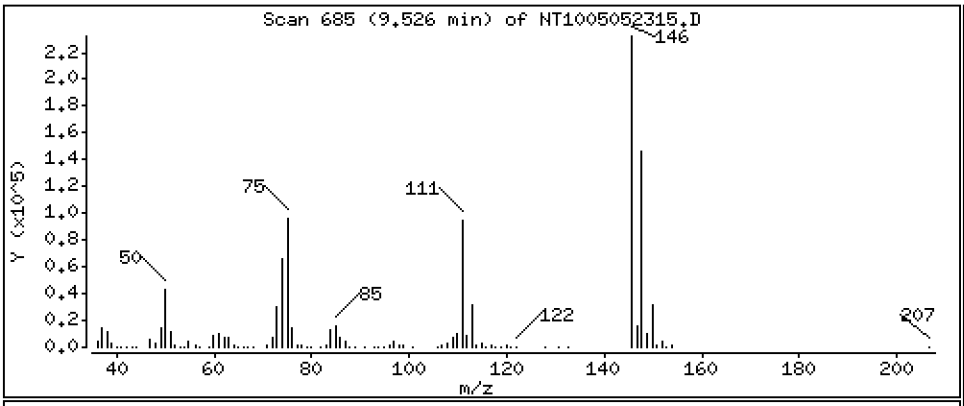
Operator: VTS

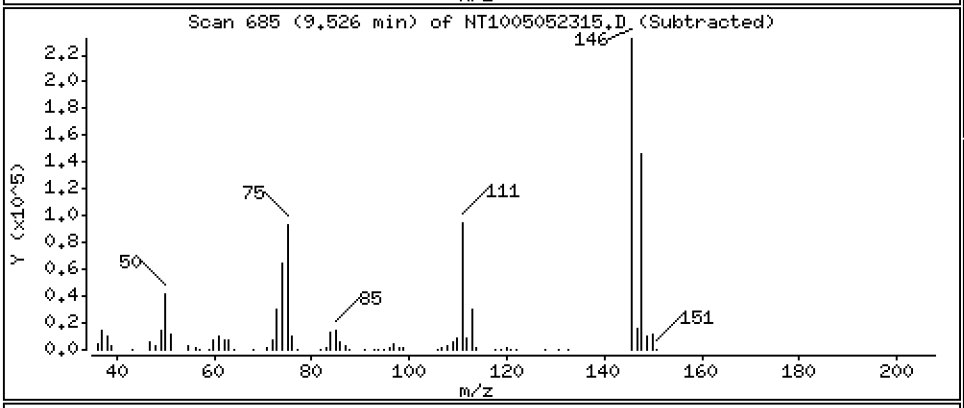
Column phase: ZB-5msi

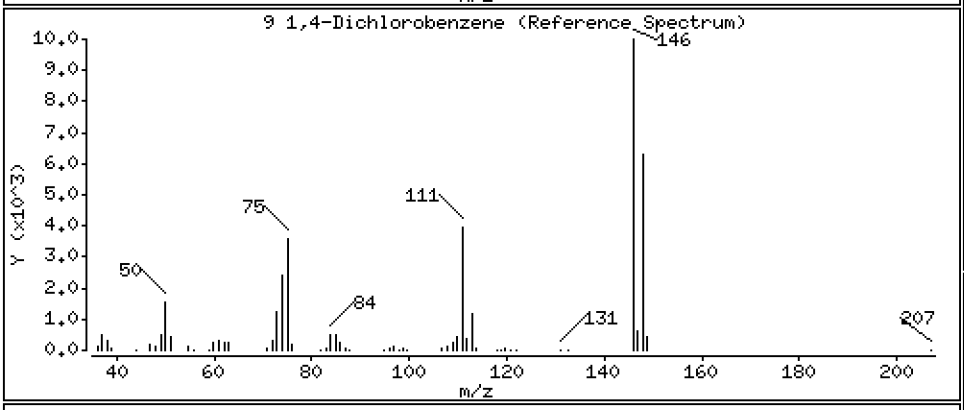
Column diameter: 0.25

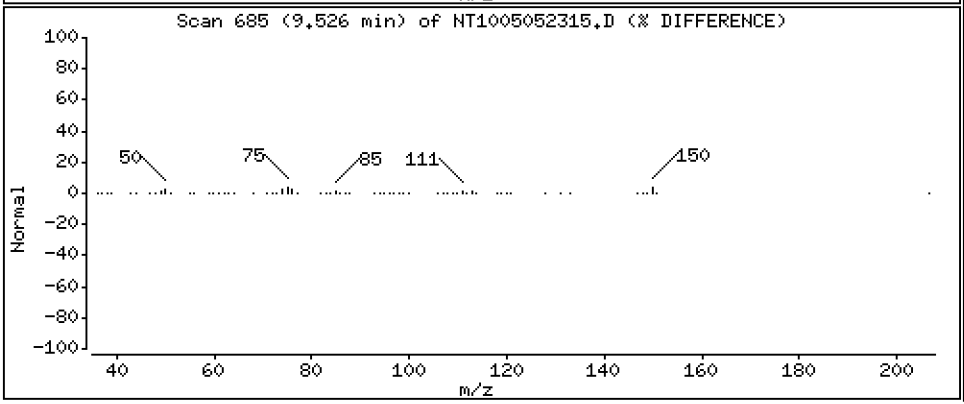
9 1,4-Dichlorobenzene

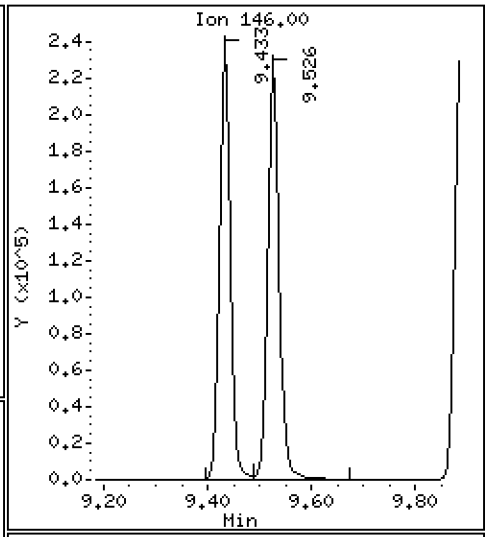
Concentration: 5.418 ug/mL

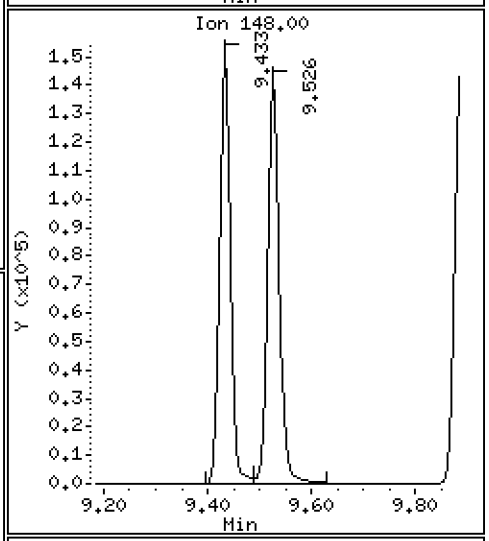


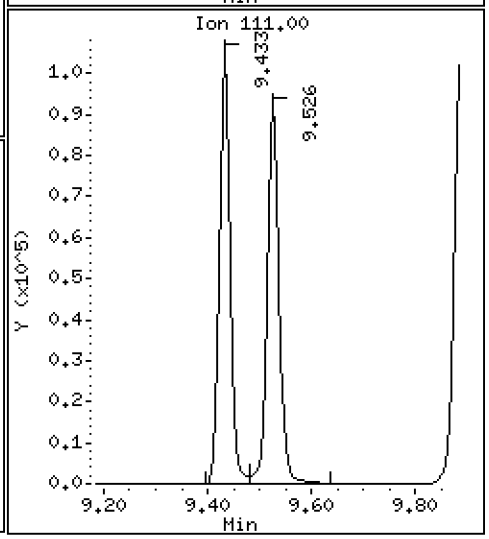












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

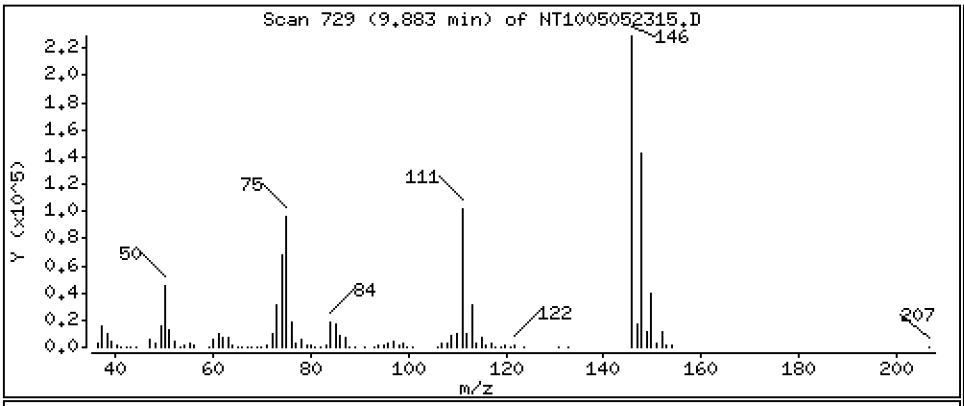
Operator: VTS

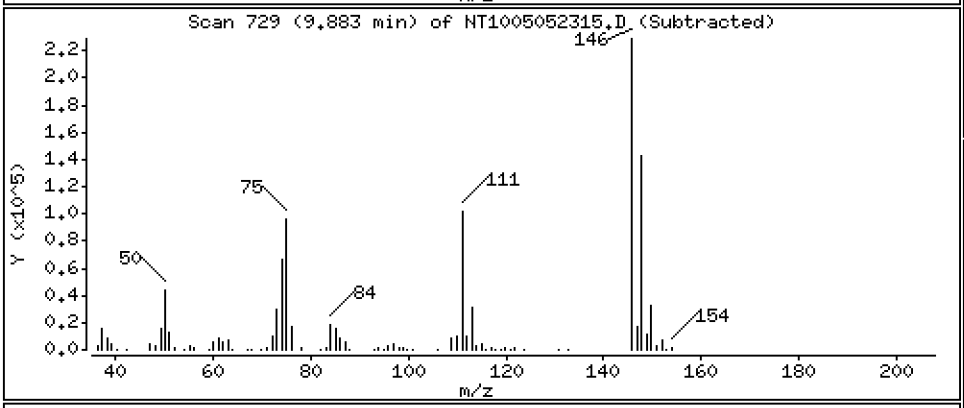
Column phase: ZB-5msi

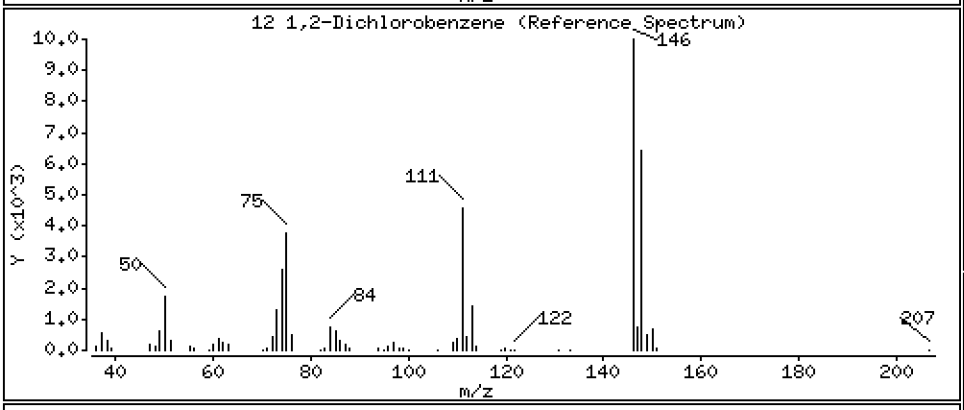
Column diameter: 0.25

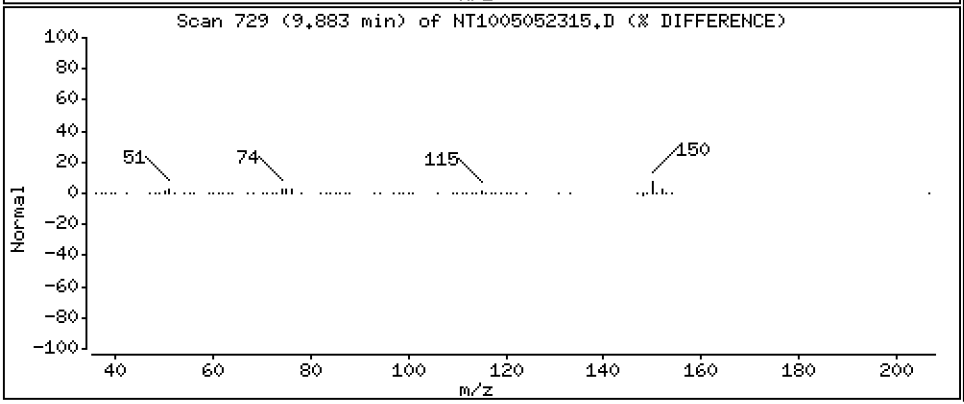
12 1,2-Dichlorobenzene

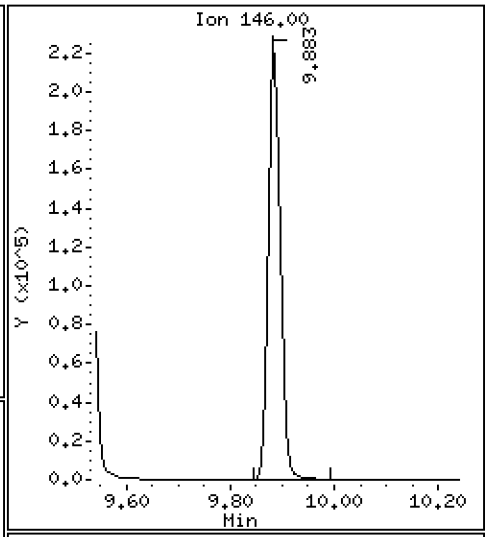
Concentration: 5.044 ug/mL

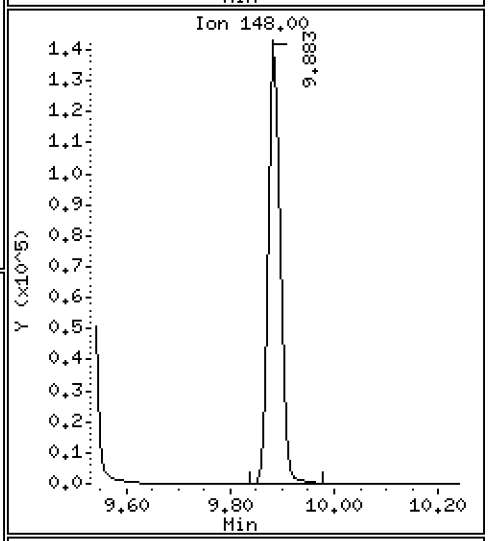


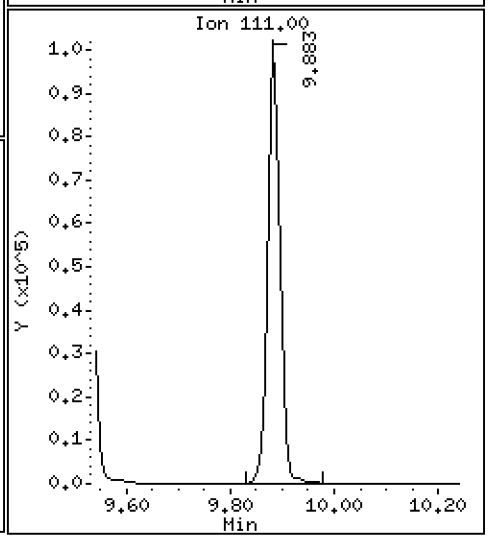












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

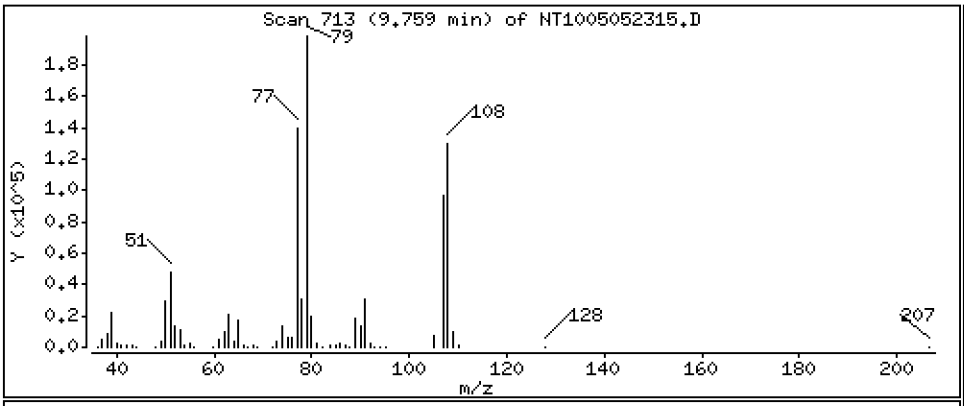
Operator: VTS

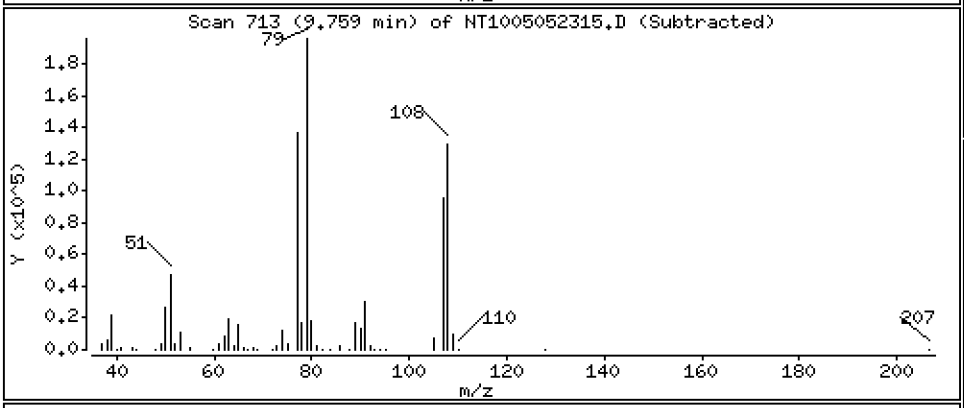
Column phase: ZB-5msi

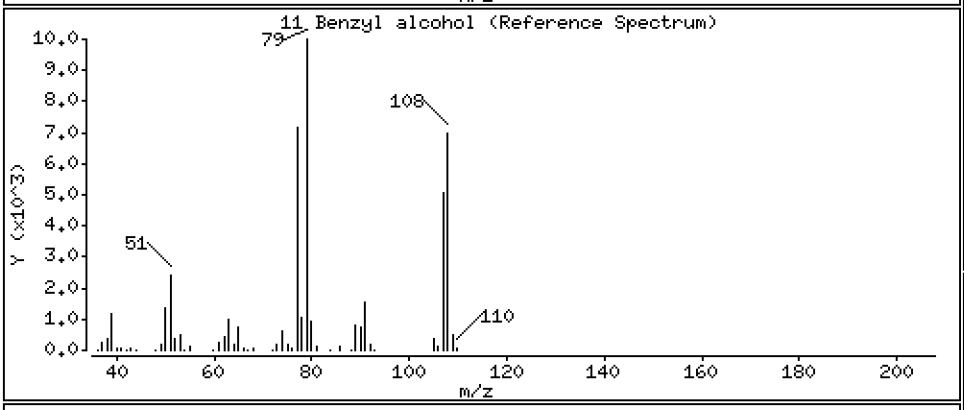
Column diameter: 0.25

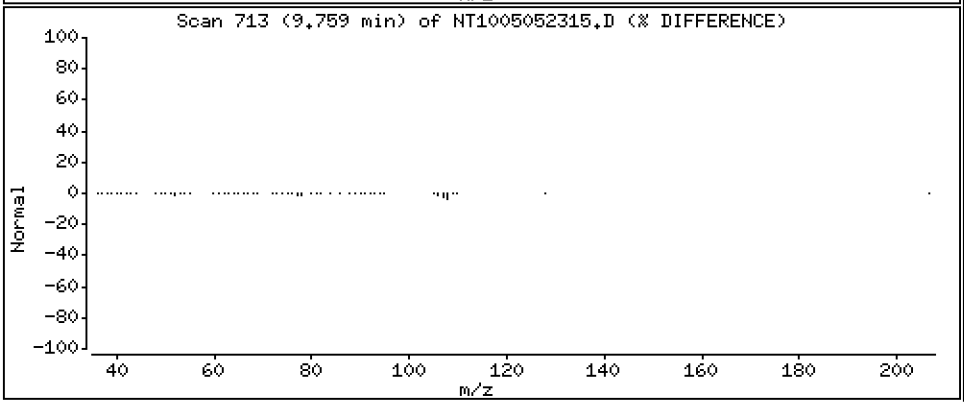
11 Benzyl alcohol

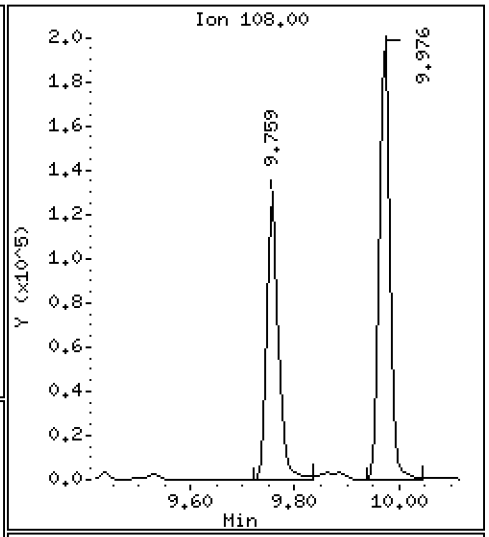
Concentration: 5.664 ug/mL

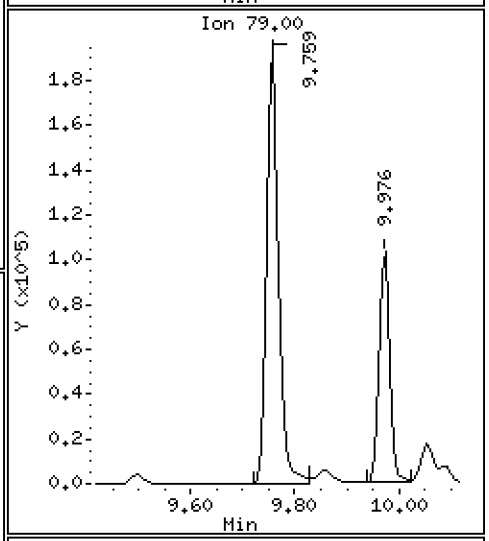


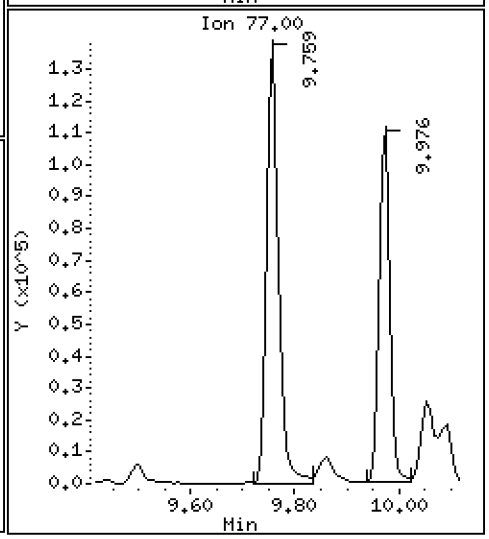












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

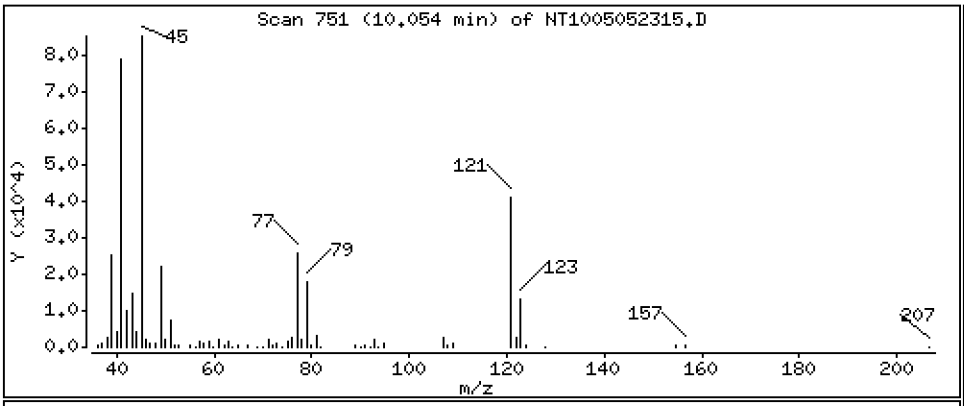
Operator: VTS

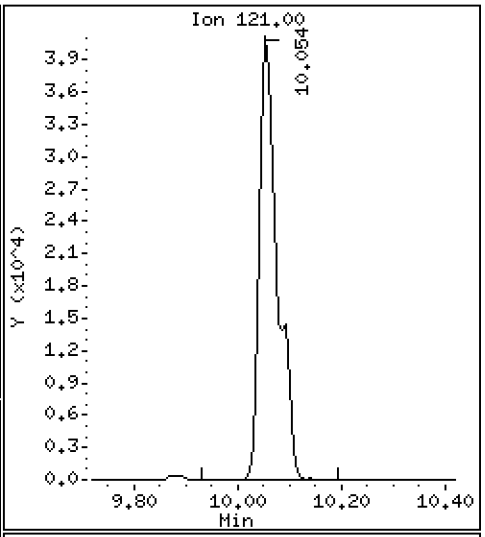
Column phase: ZB-5msi

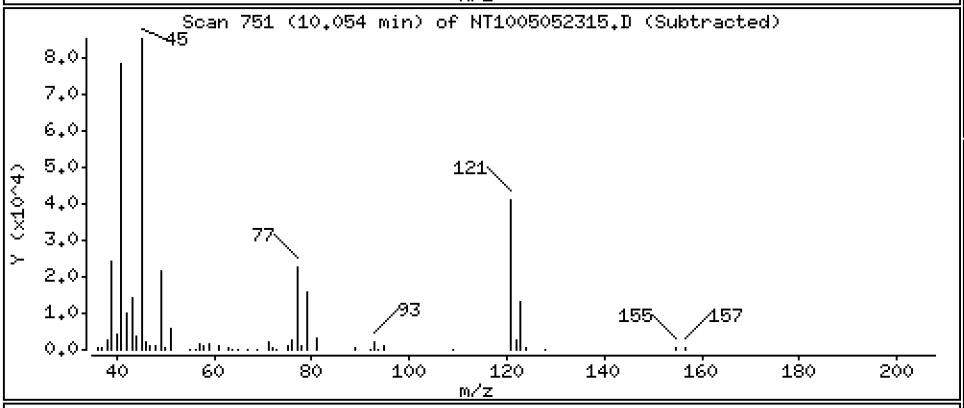
Column diameter: 0.25

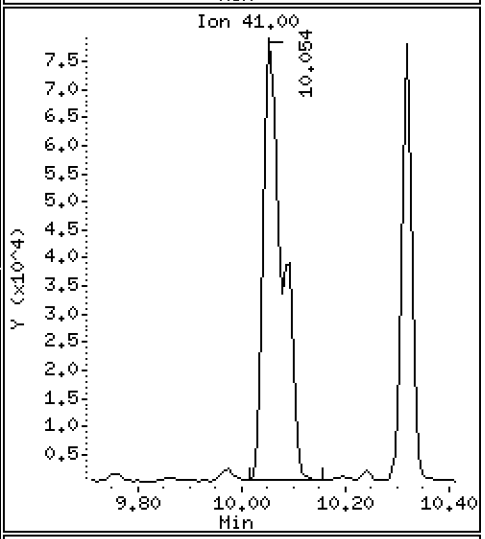
14 2,2'-oxybis(1-Chloropropane)

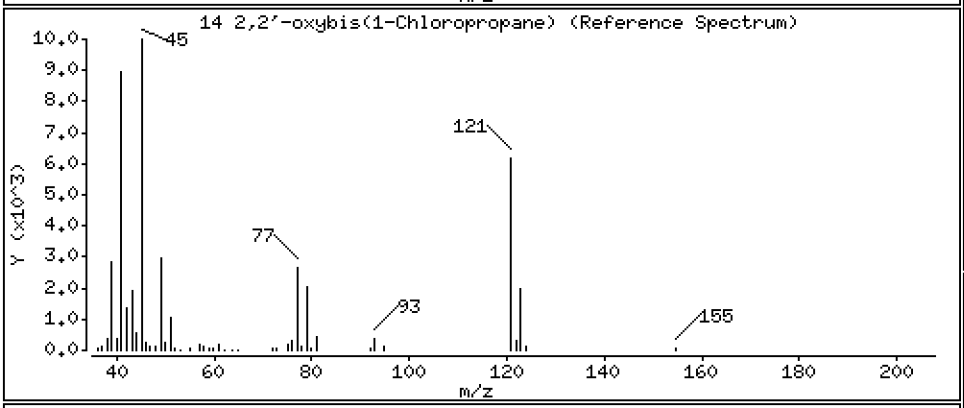
Concentration: 4.879 ug/mL

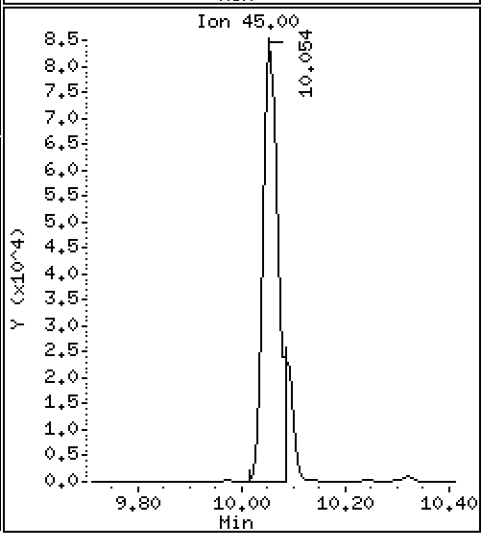


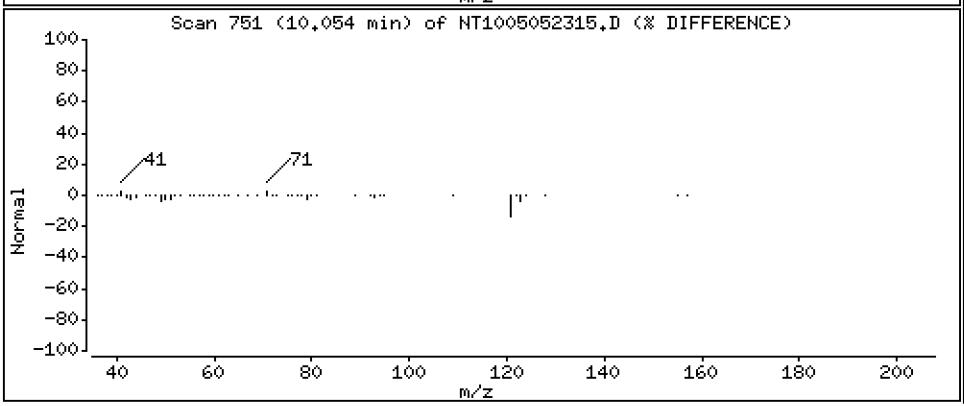












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

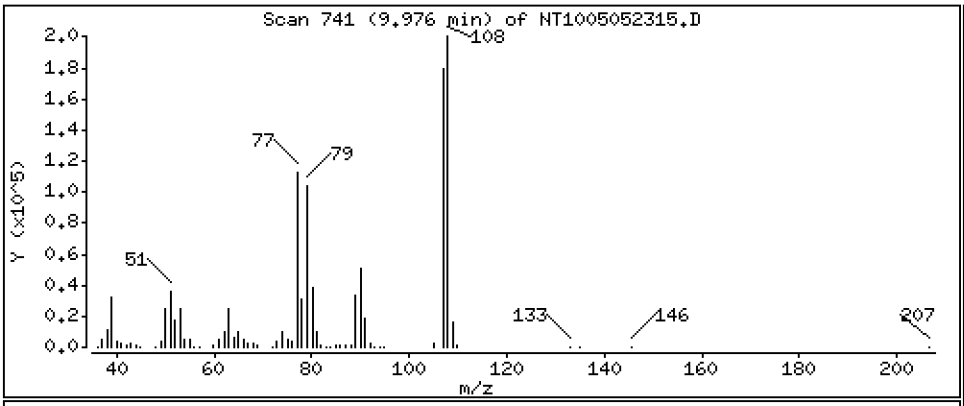
Operator: VTS

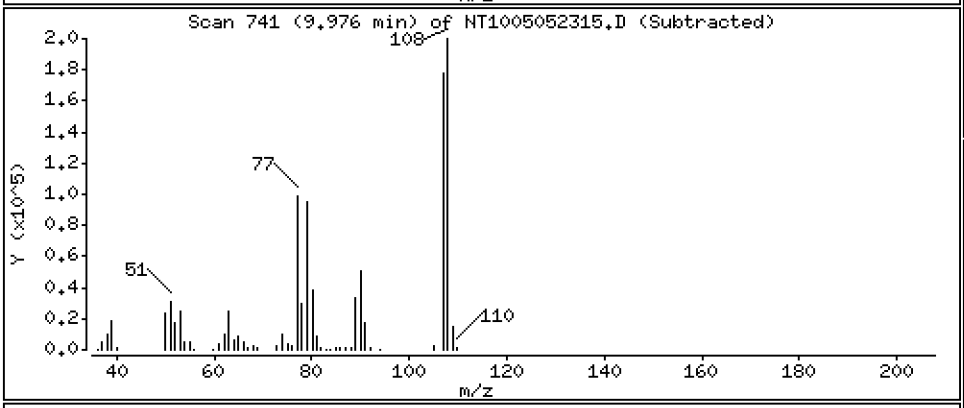
Column phase: ZB-5msi

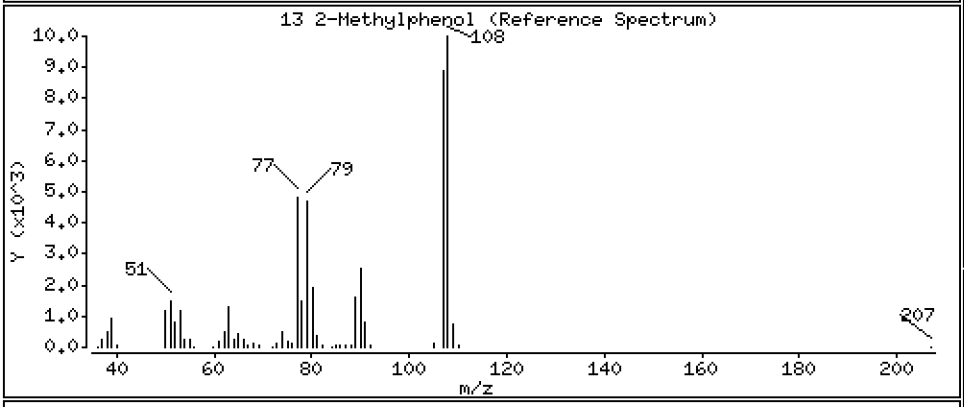
Column diameter: 0.25

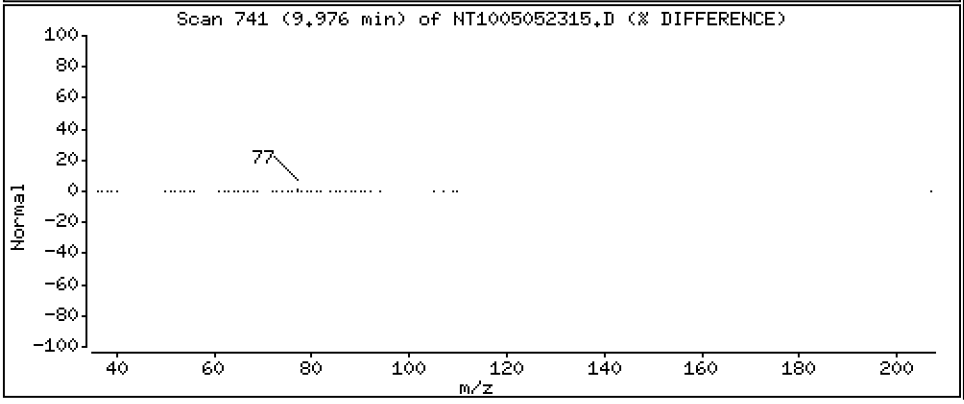
13 2-Methylphenol

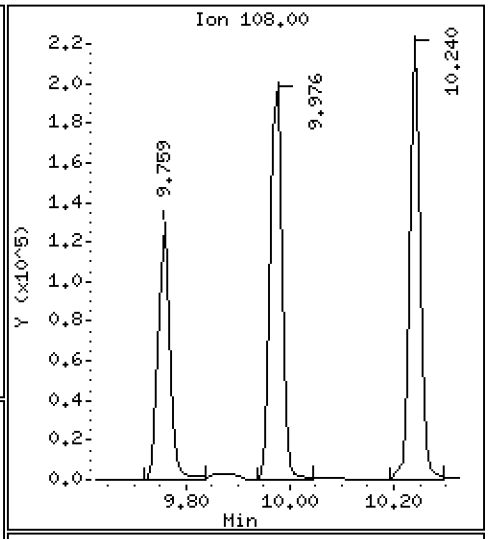
Concentration: 5.520 ug/mL

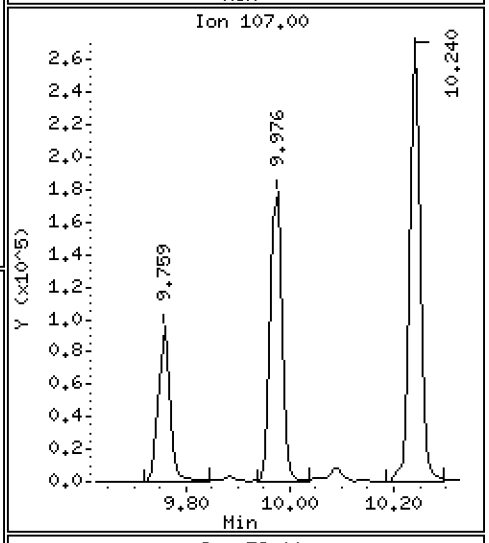


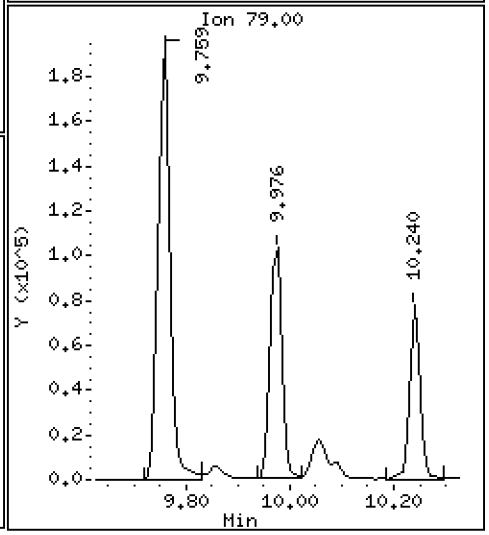












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

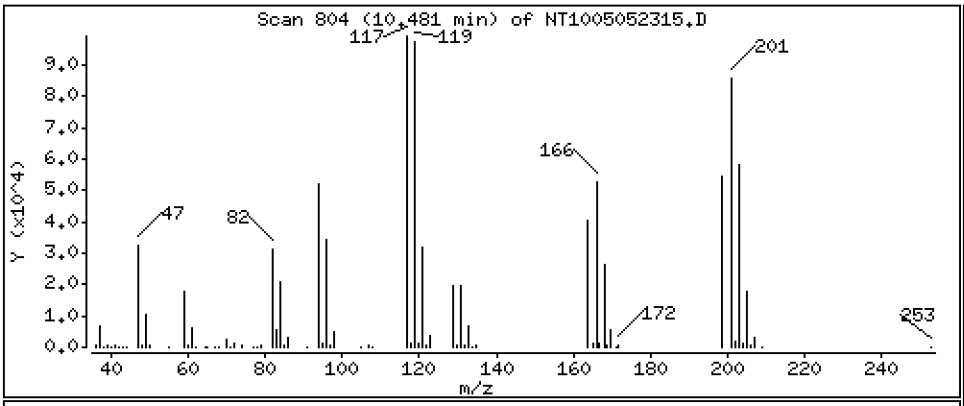
Operator: VTS

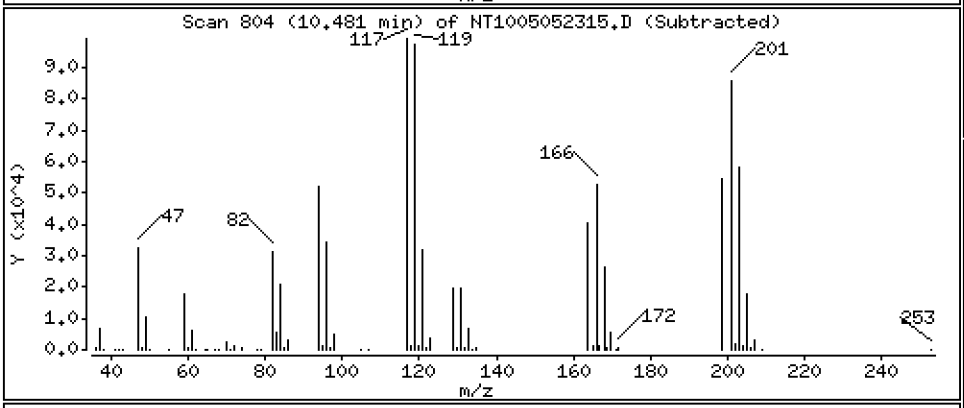
Column phase: ZB-5msi

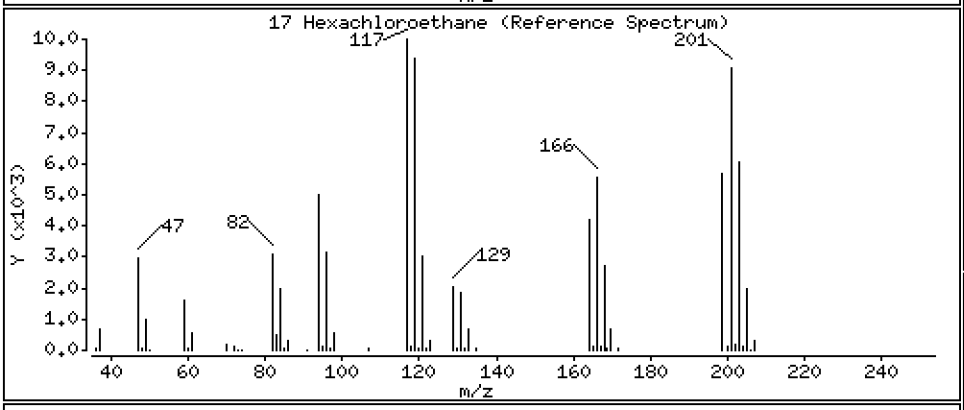
Column diameter: 0.25

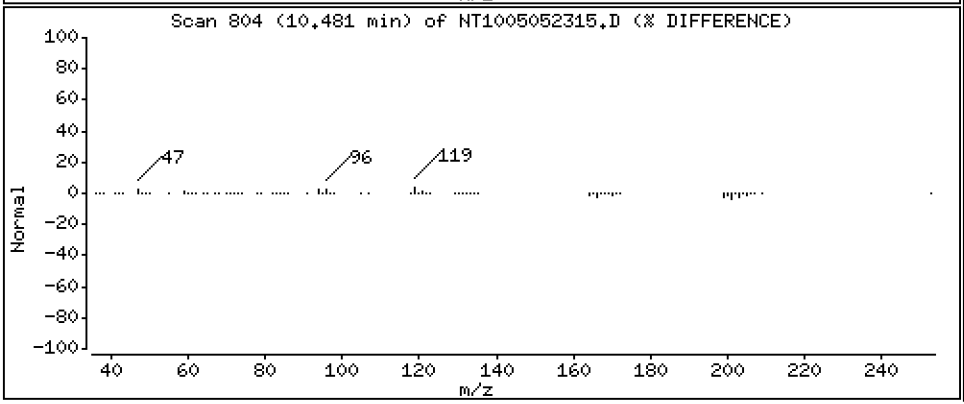
17 Hexachloroethane

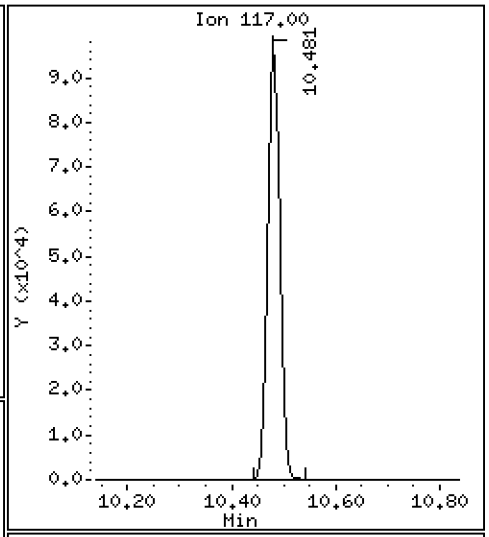
Concentration: 4.803 ug/mL

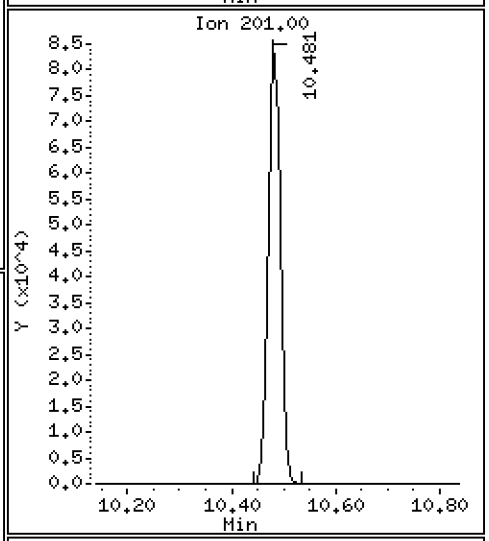


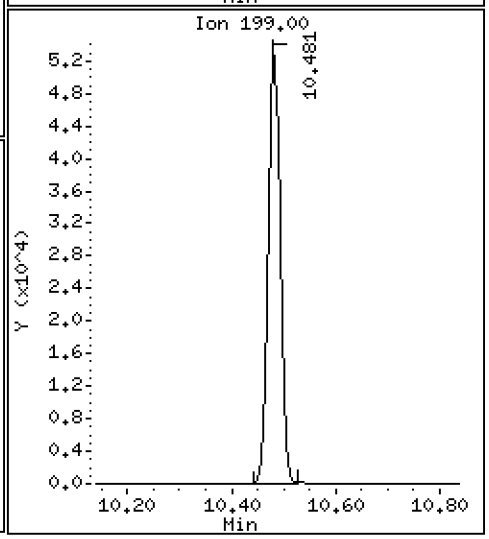












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

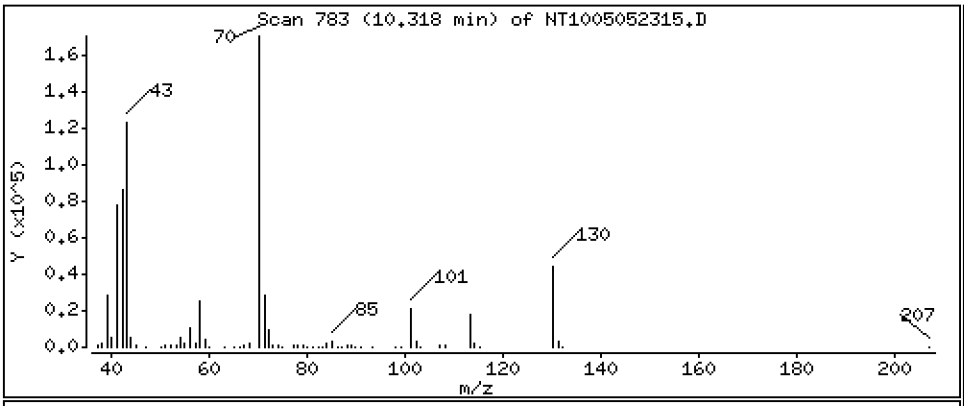
Operator: VTS

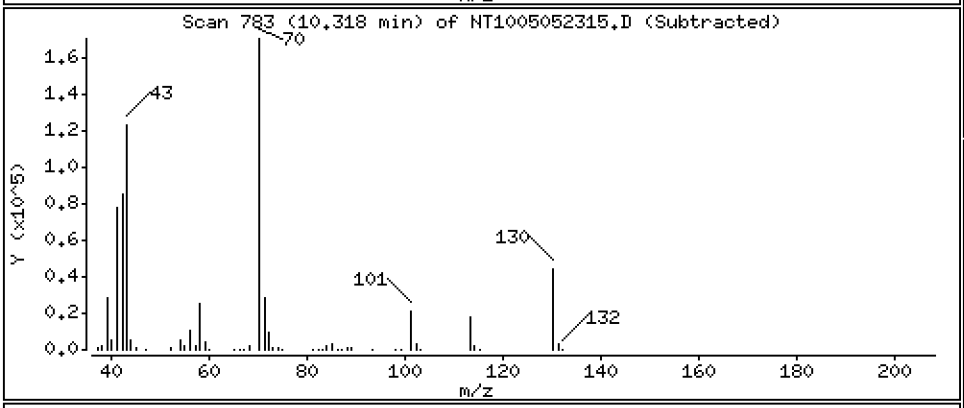
Column phase: ZB-5msi

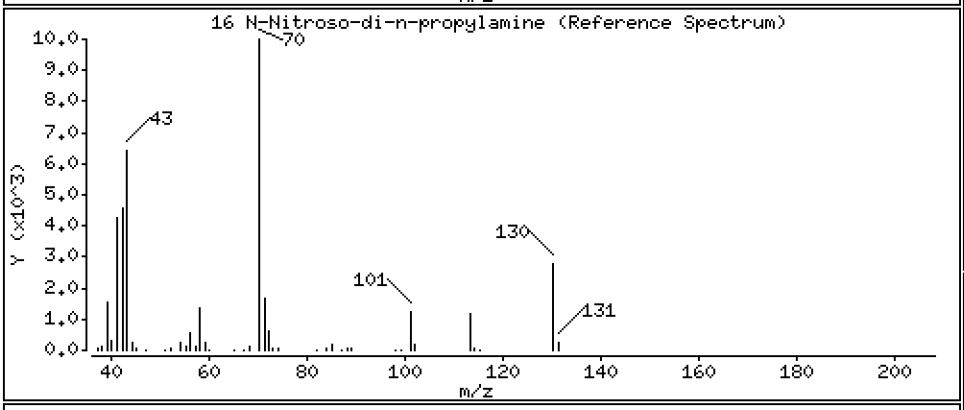
Column diameter: 0.25

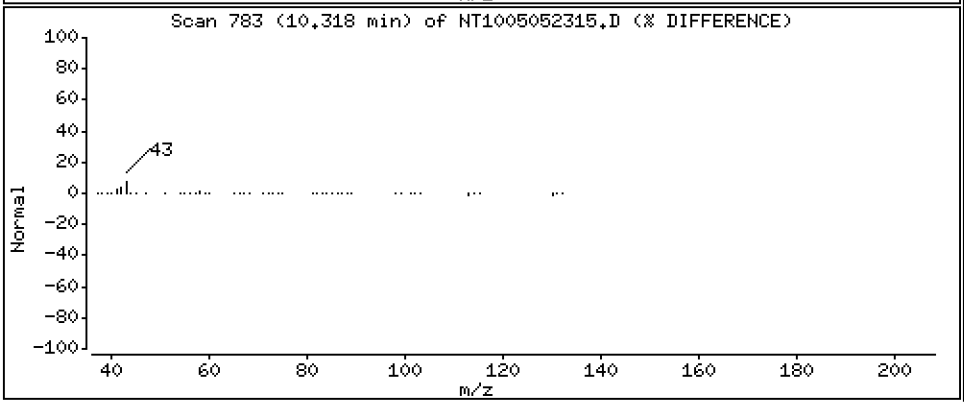
16 N-Nitroso-di-n-propylamine

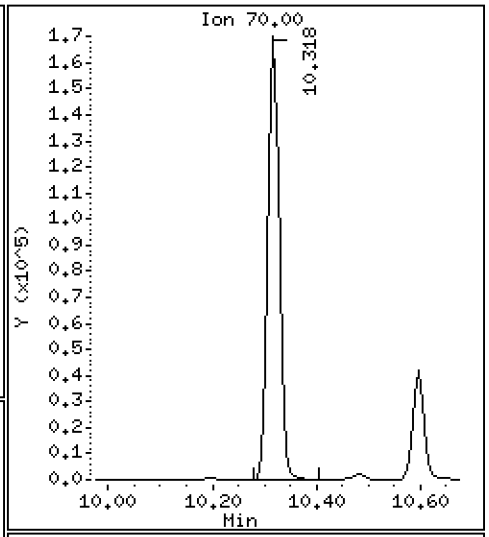
Concentration: 5.799 ug/mL

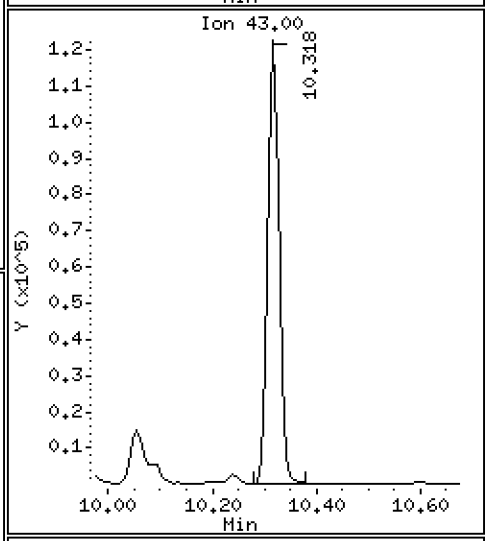


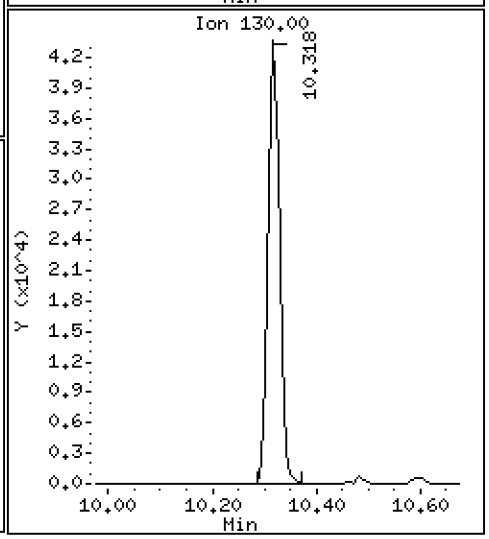












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

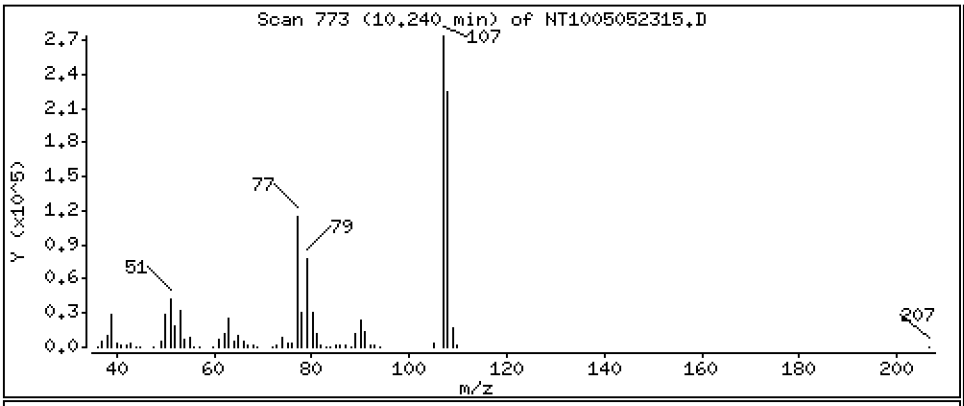
Operator: VTS

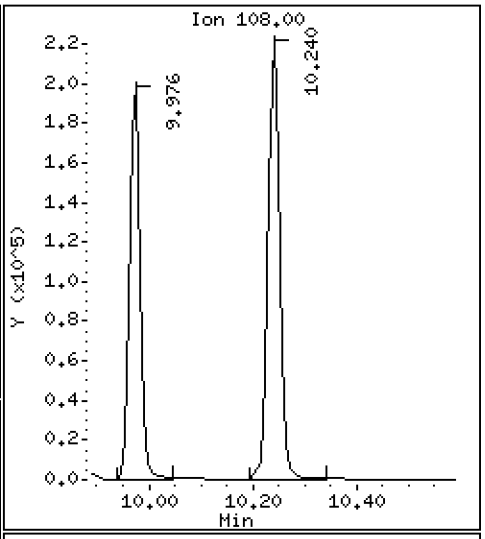
Column phase: ZB-5msi

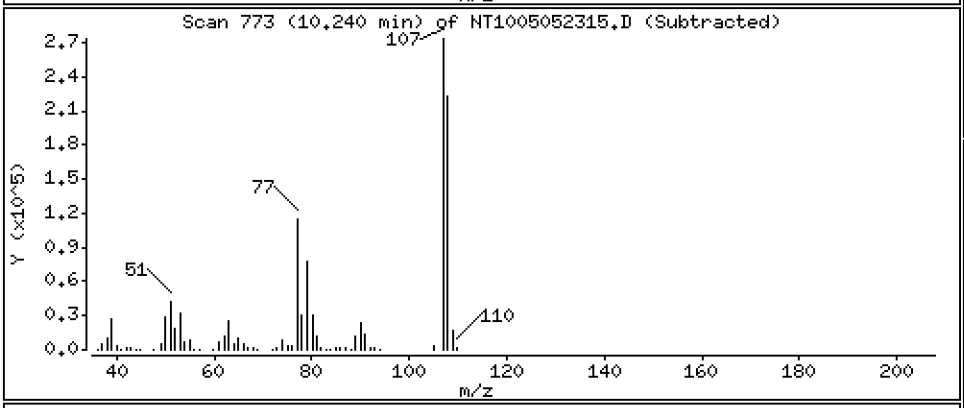
Column diameter: 0.25

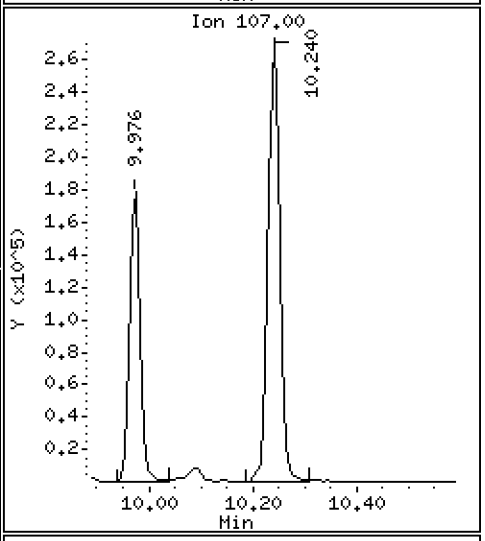
15 4-Methylphenol

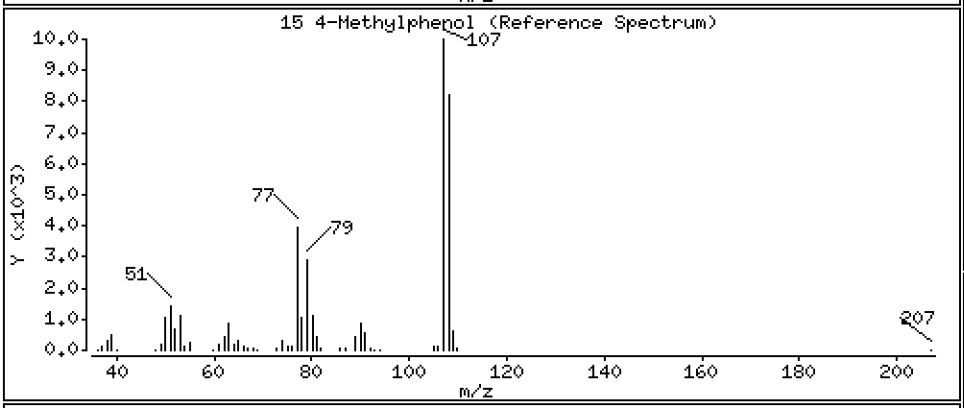
Concentration: 5.588 ug/mL

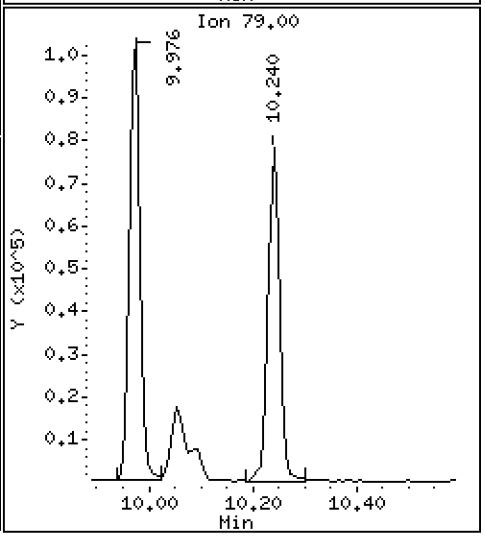


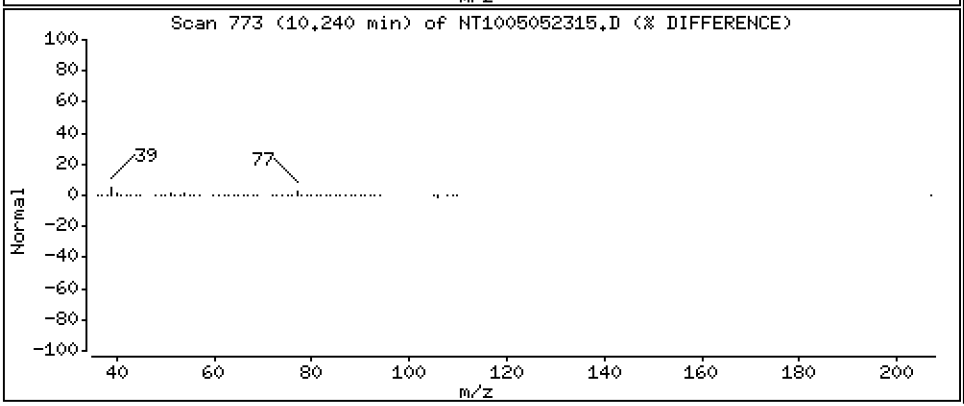












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

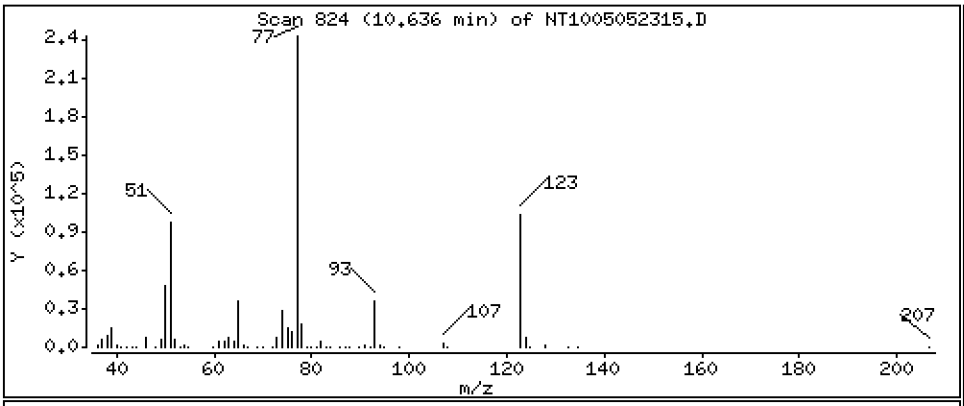
Operator: VTS

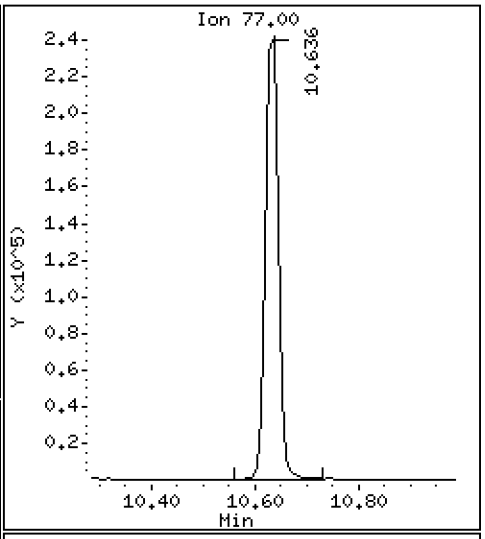
Column phase: ZB-5msi

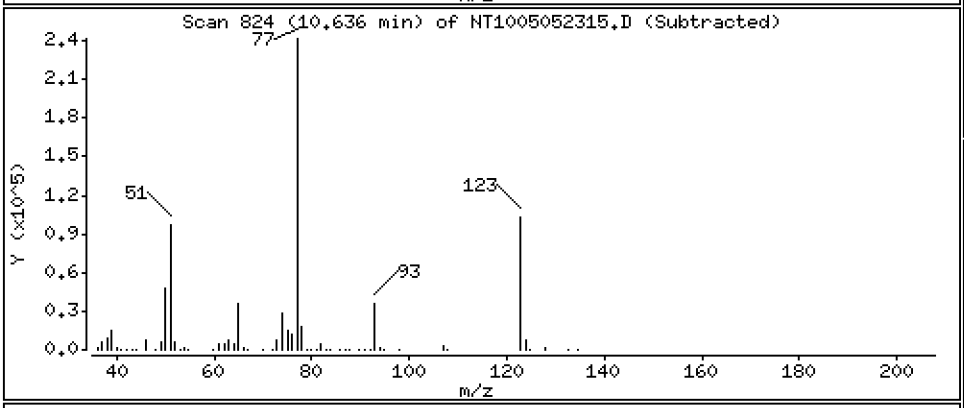
Column diameter: 0.25

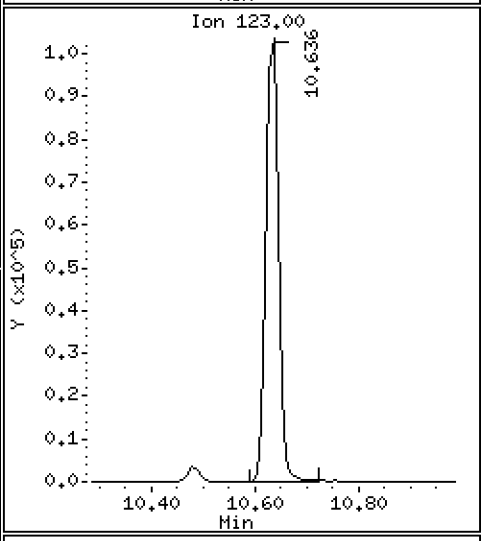
19 Nitrobenzene

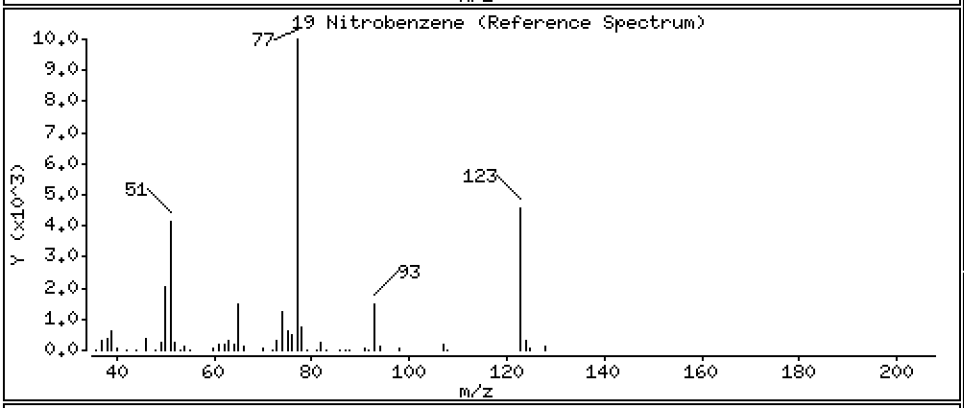
Concentration: 5.174 ug/mL

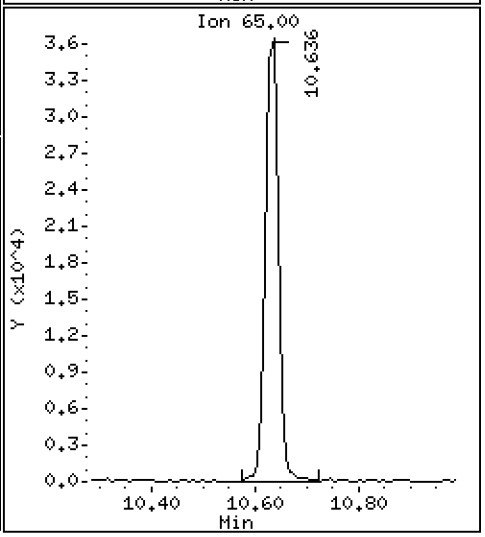


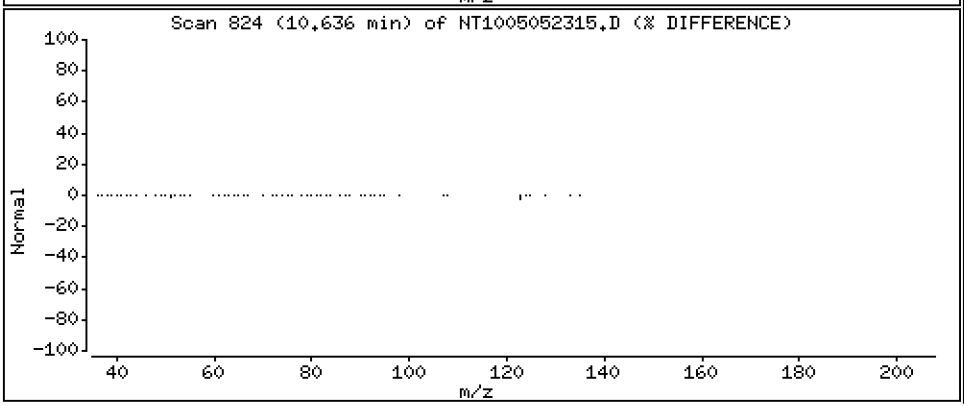












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

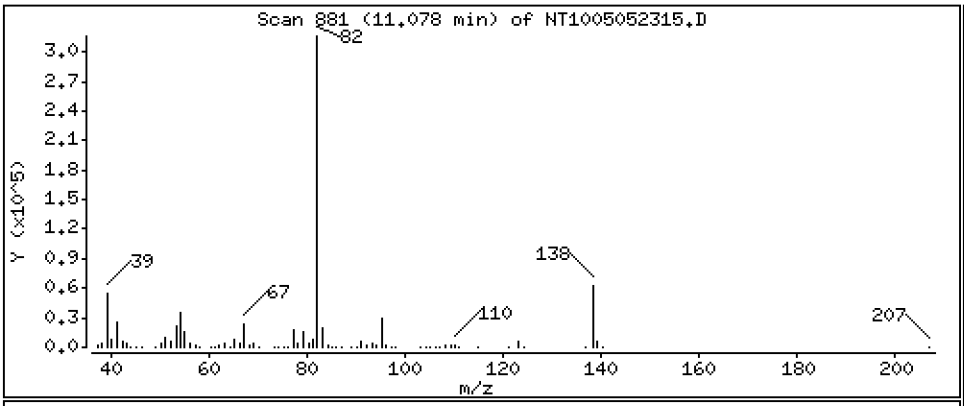
Operator: VTS

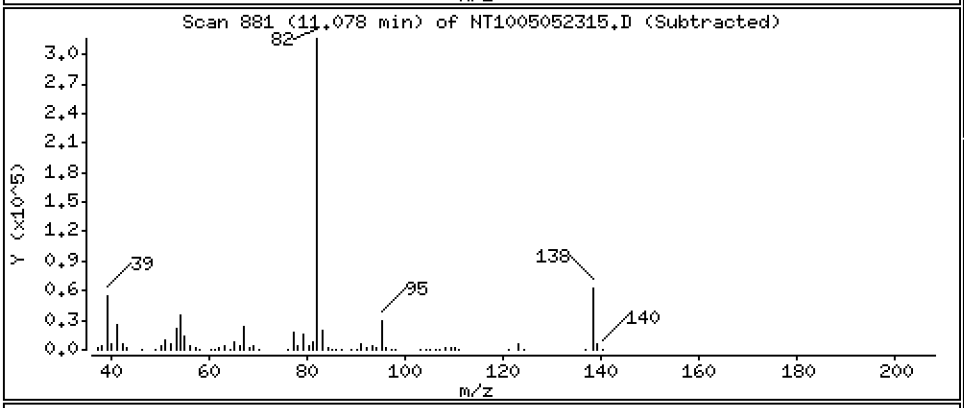
Column phase: ZB-5msi

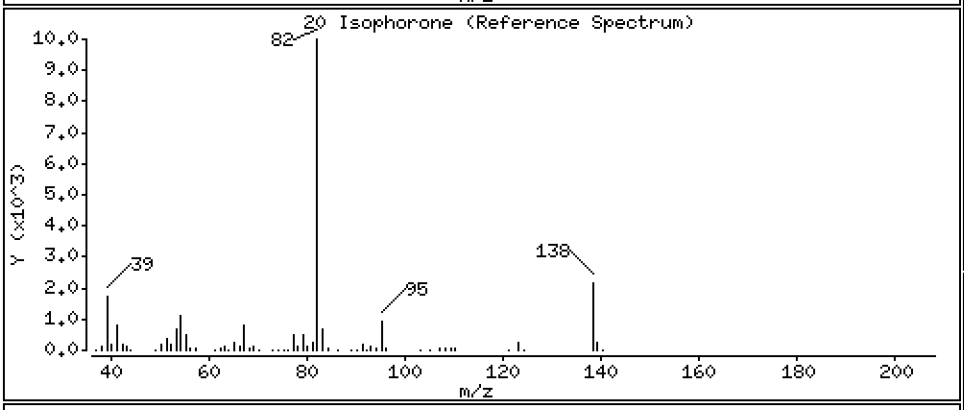
Column diameter: 0.25

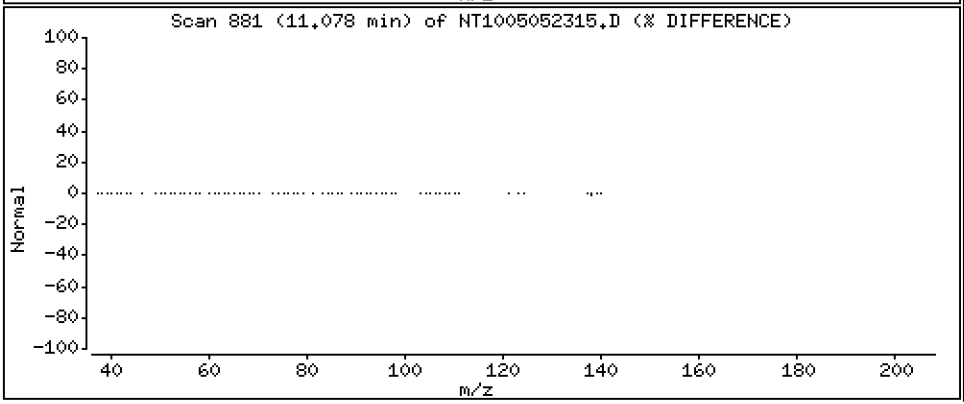
20 Isophorone

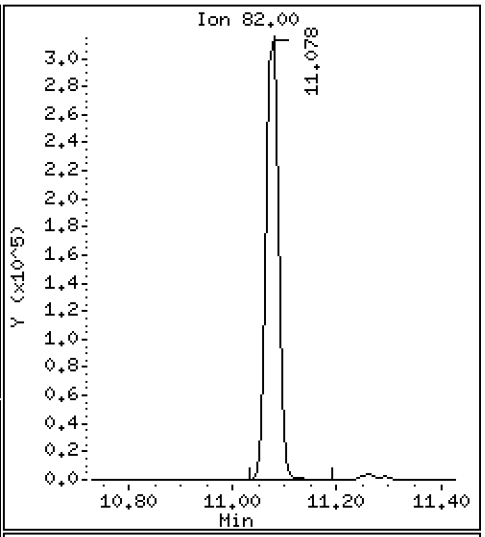
Concentration: 6.151 ug/mL

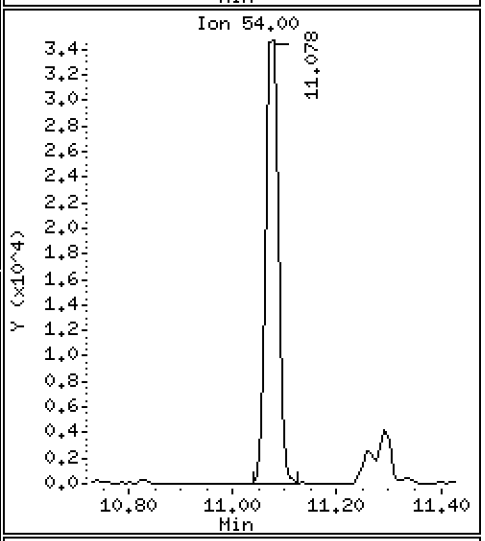


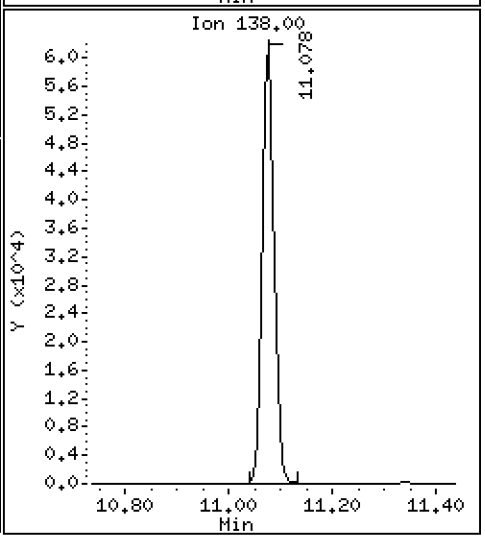












Date : 05-MAY-2023 19:50

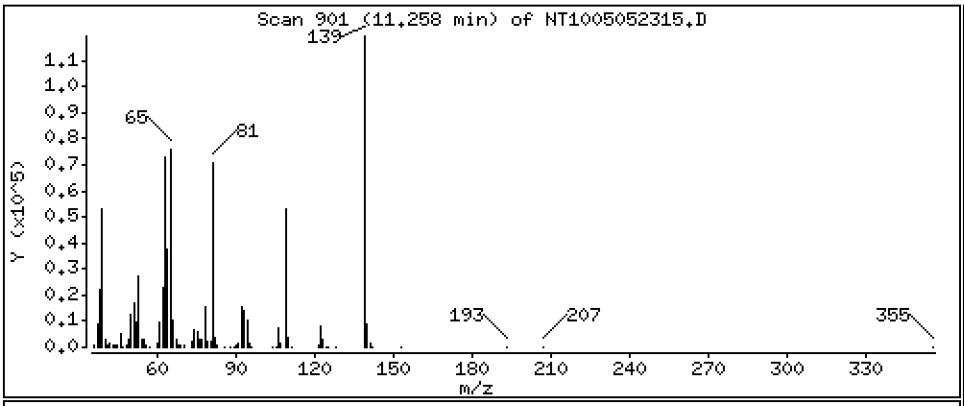
Client ID: Instrument: nt10.i

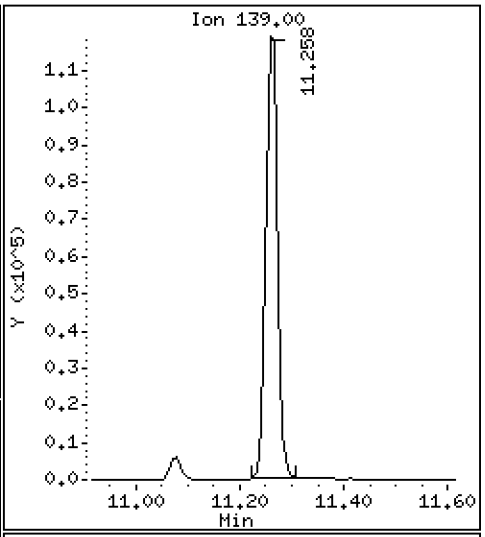
Sample Info: SLE0101-CCV1

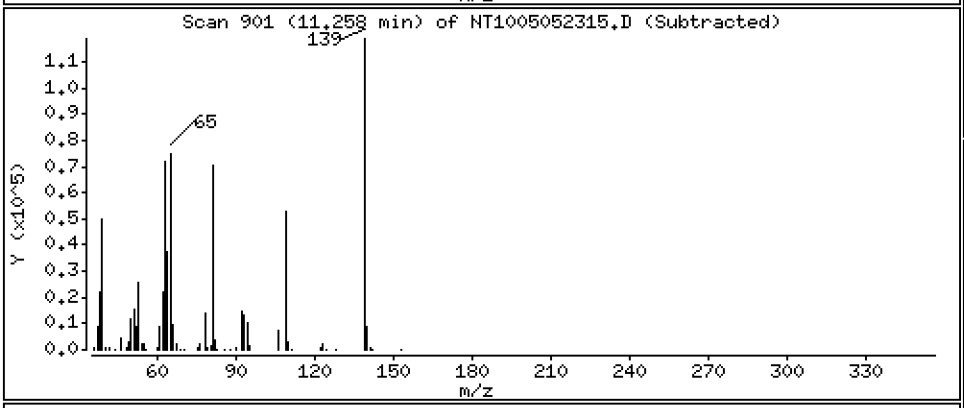
Operator: VTS

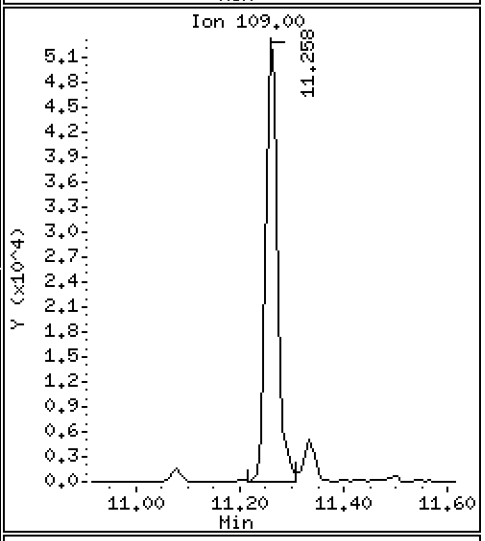
Column phase: ZB-5msi Column diameter: 0.25

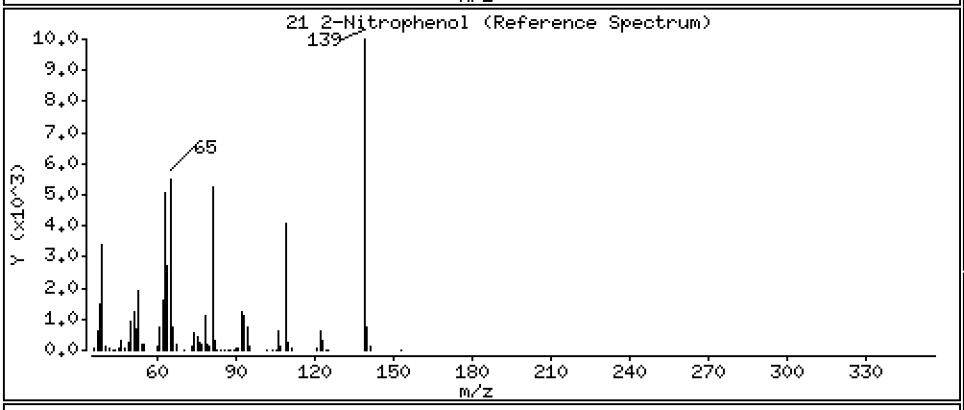
21 2-Nitrophenol Concentration: 4.688 ug/mL

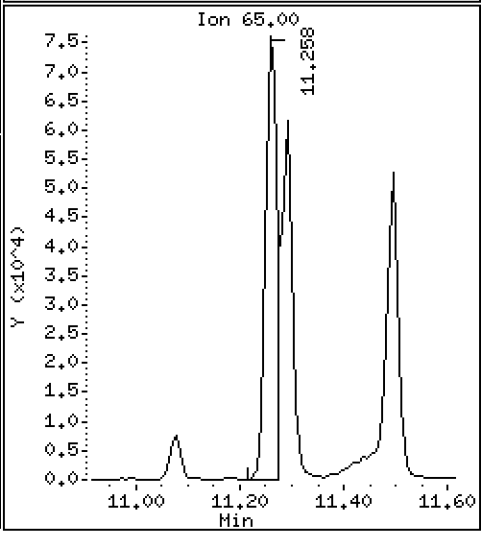


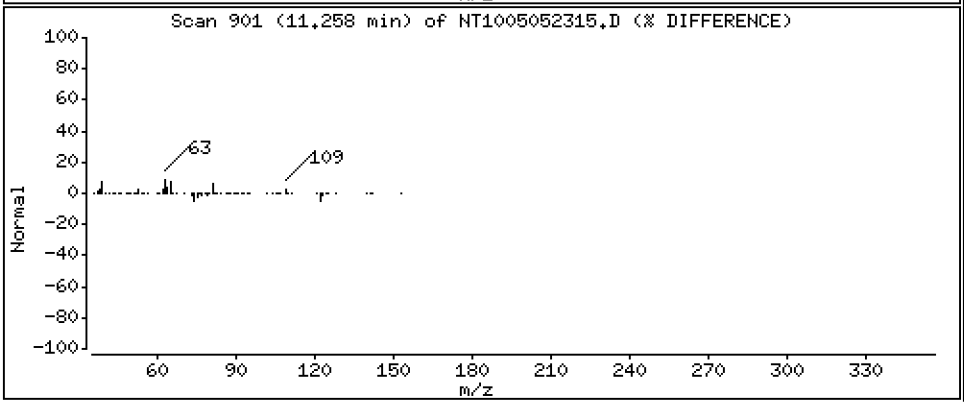












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

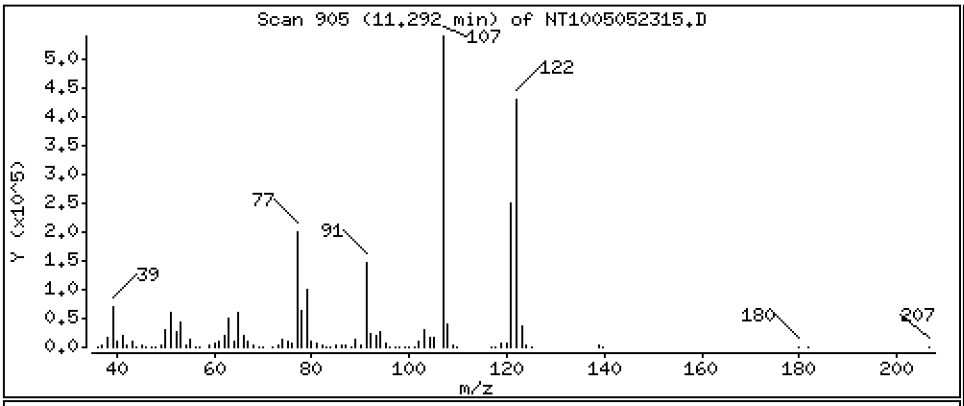
Operator: VTS

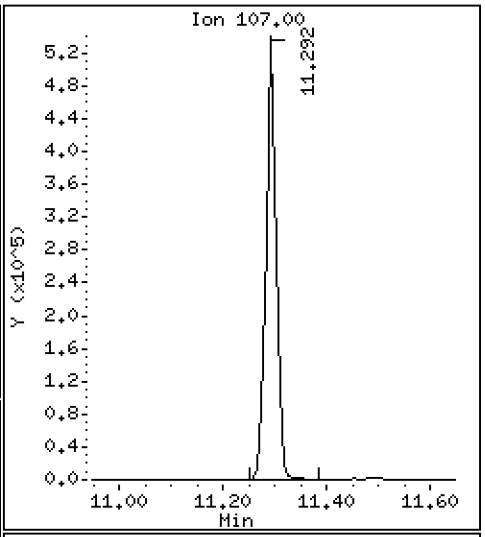
Column phase: ZB-5msi

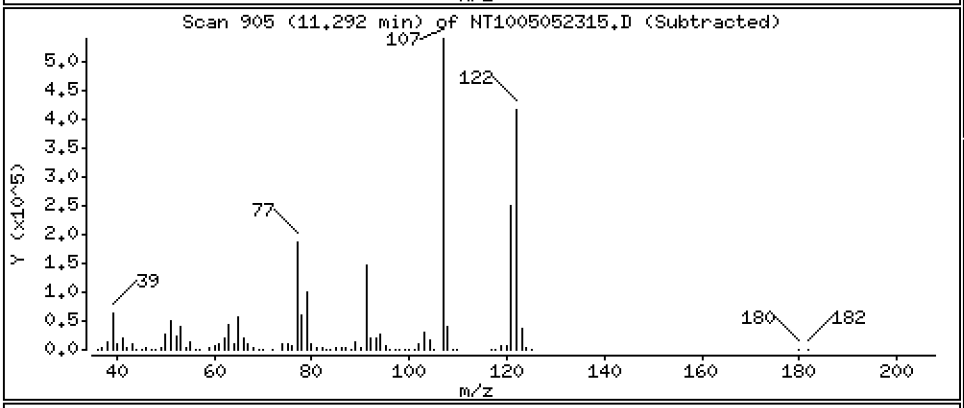
Column diameter: 0.25

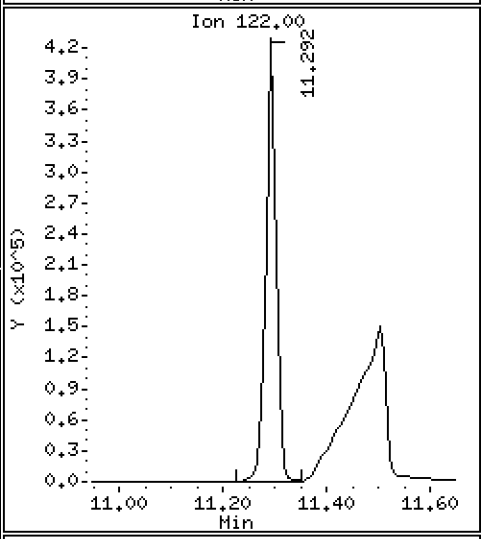
22 2,4-Dimethylphenol

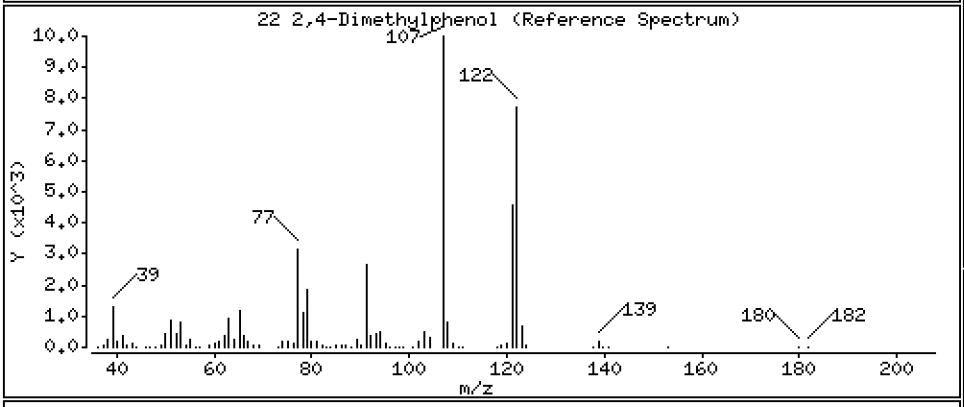
Concentration: 9.716 ug/mL

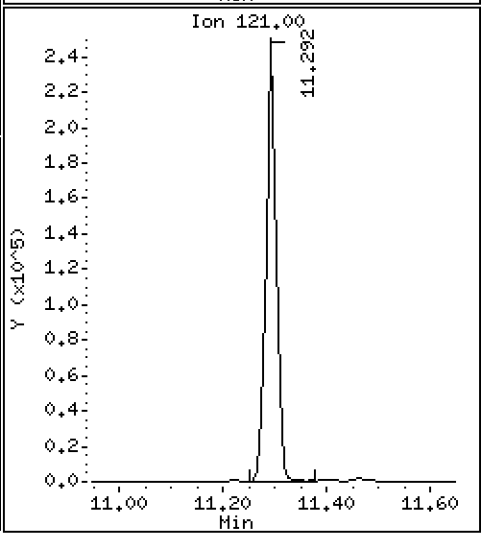


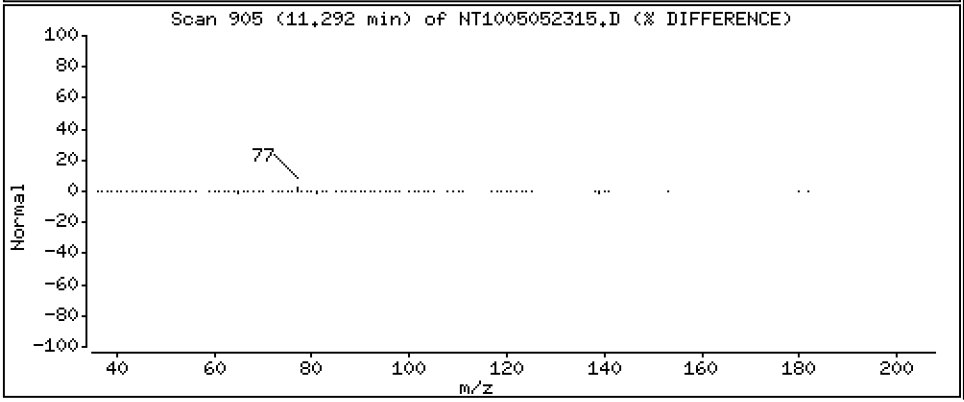












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

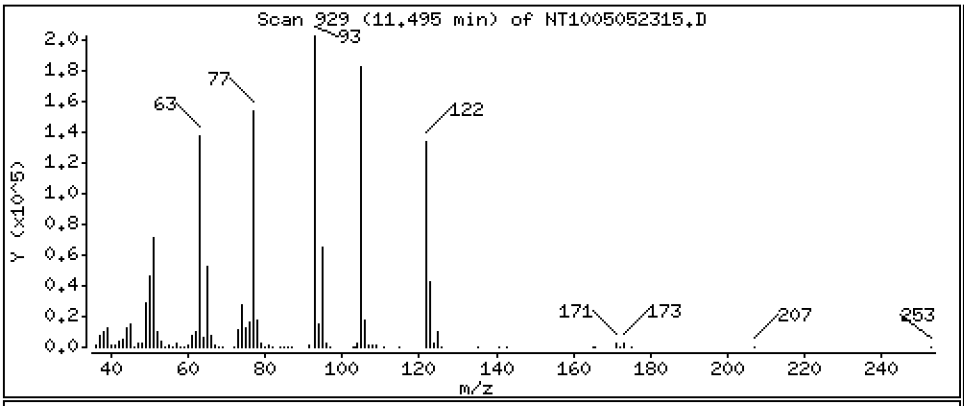
Operator: VTS

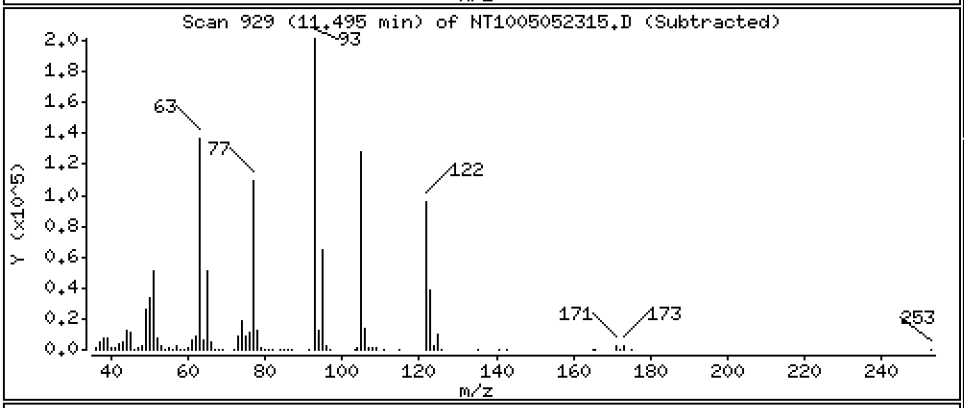
Column phase: ZB-5msi

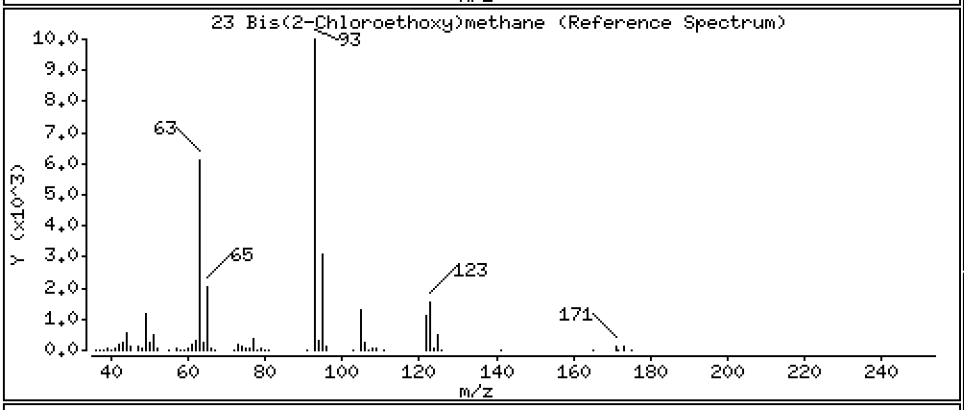
Column diameter: 0.25

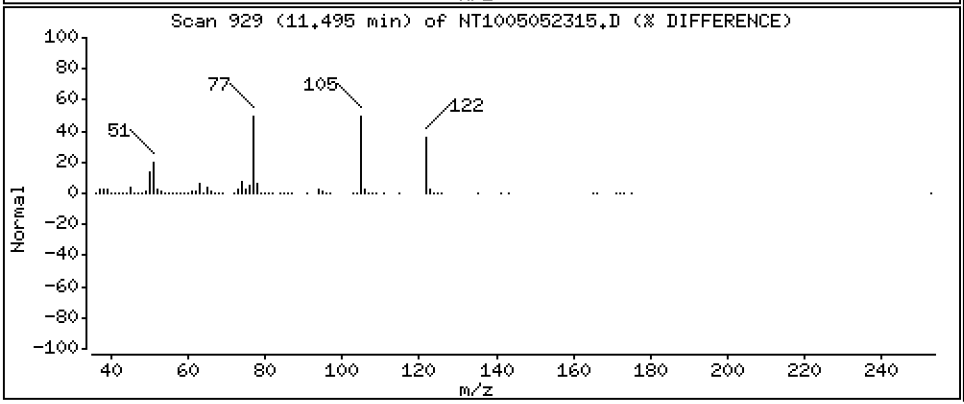
23 Bis(2-Chloroethoxy)methane

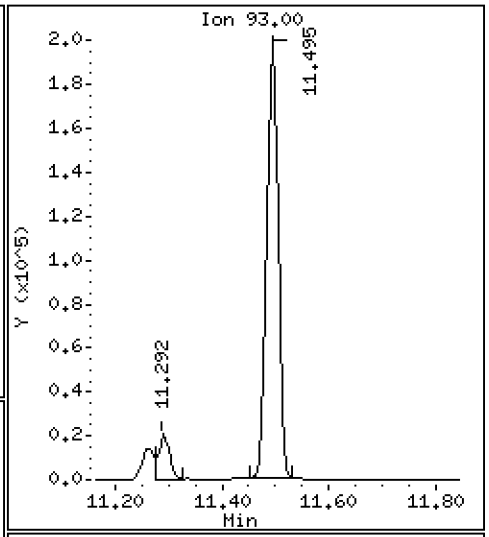
Concentration: 4.894 ug/mL

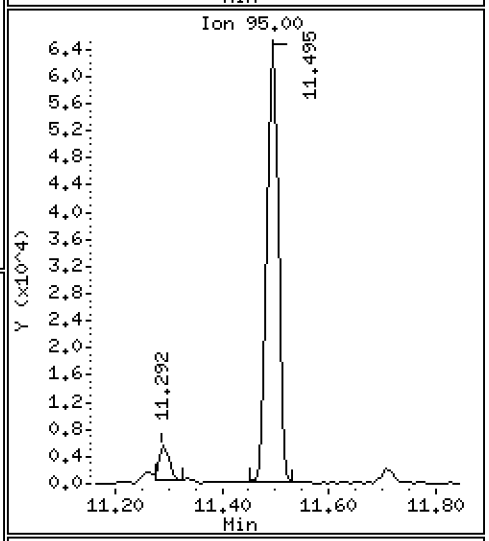


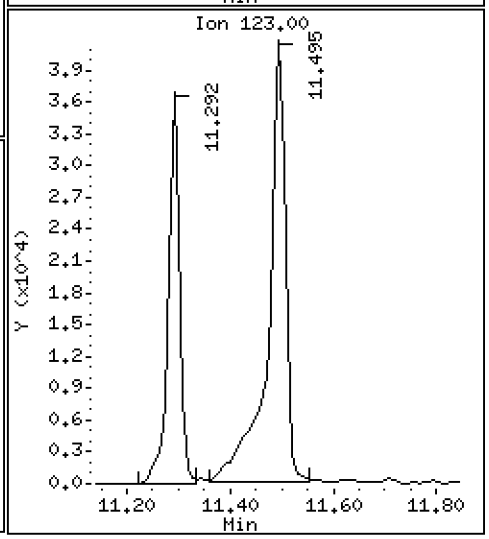












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

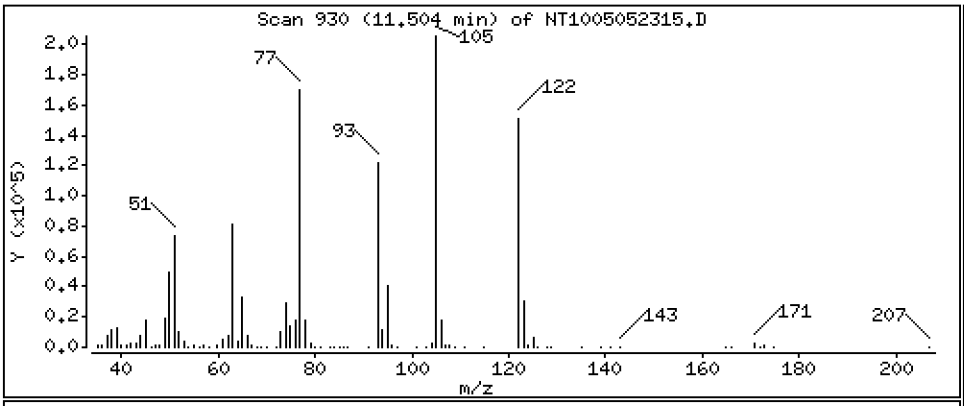
Operator: VTS

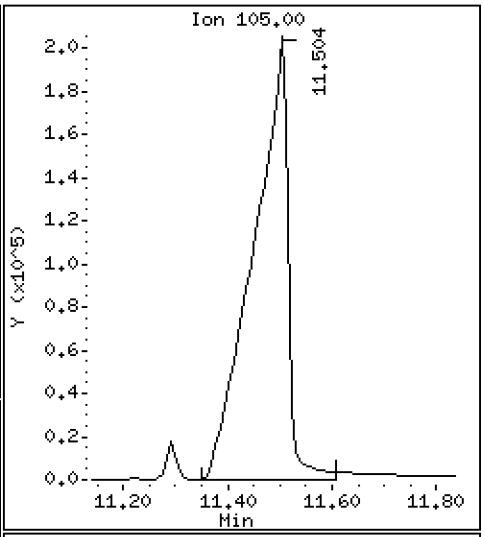
Column phase: ZB-5msi

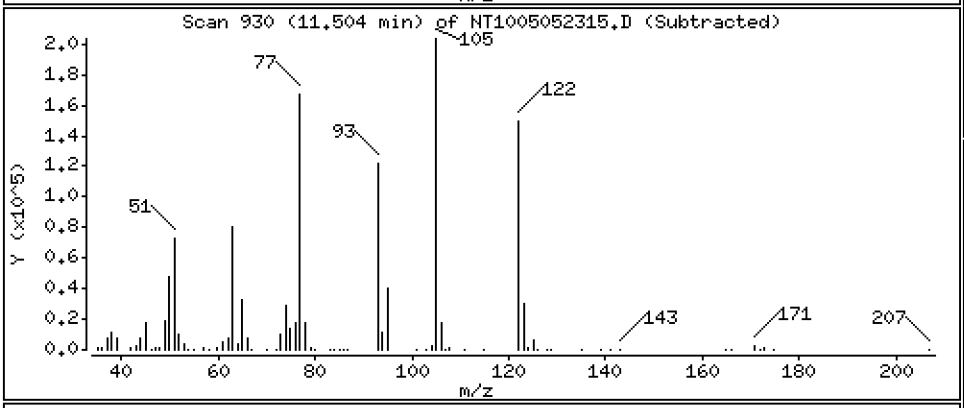
Column diameter: 0.25

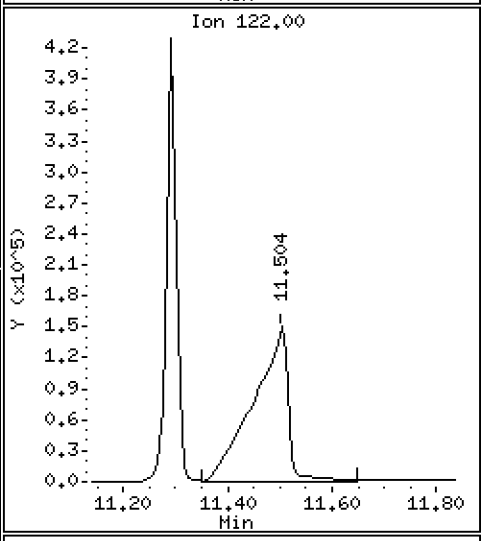
24 Benzoic acid

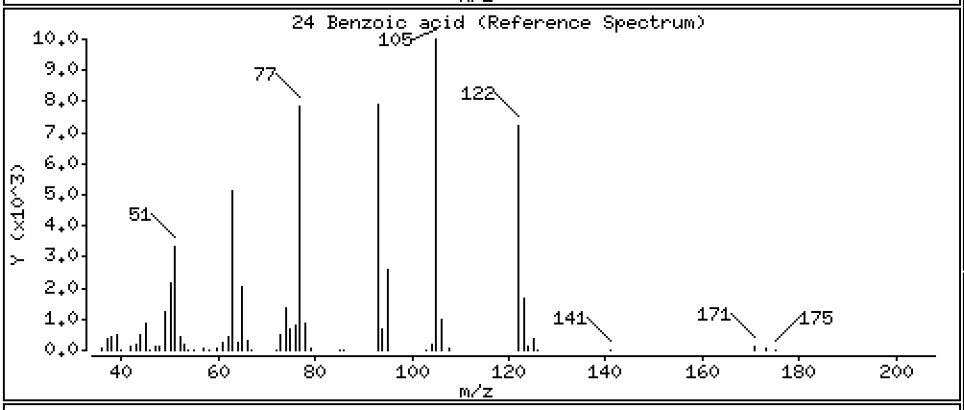
Concentration: 17.91 ug/mL

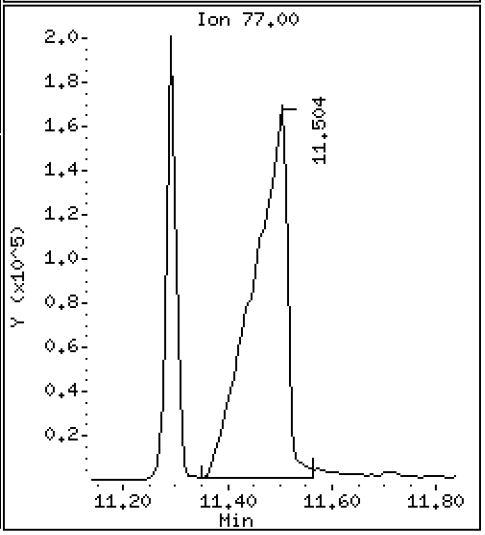


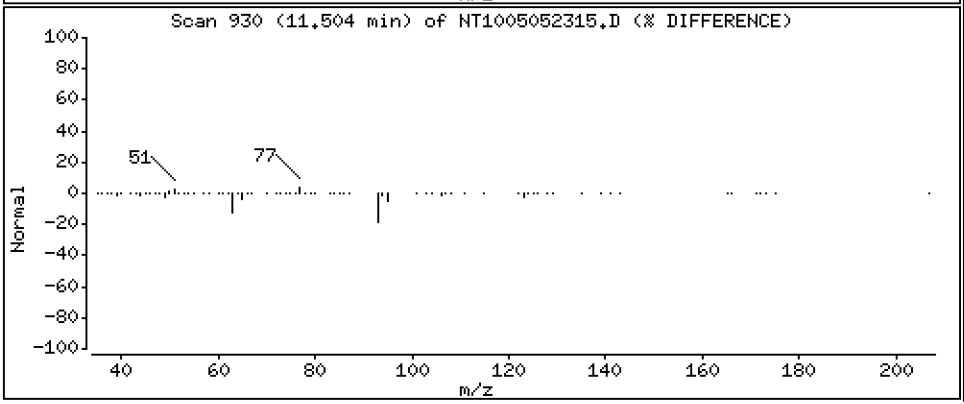












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

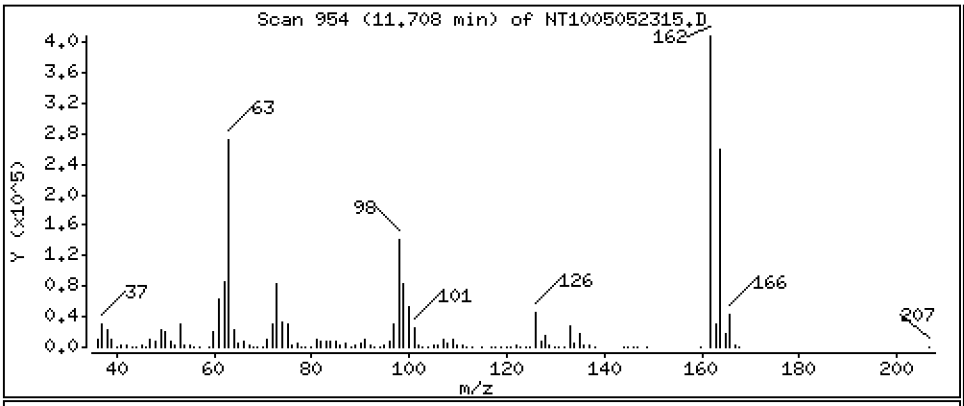
Operator: VTS

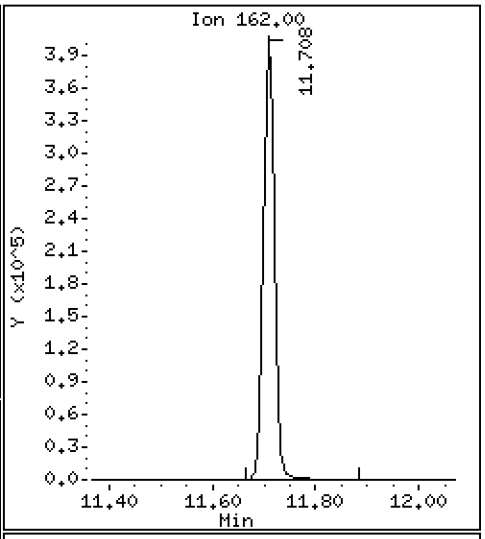
Column phase: ZB-5msi

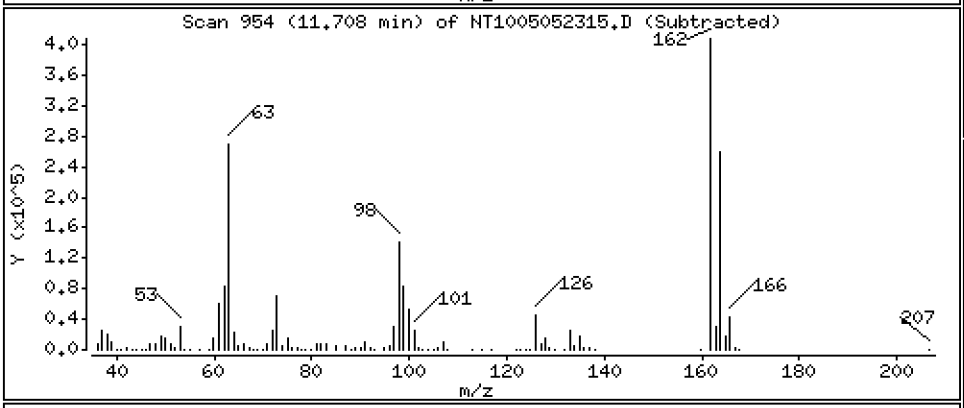
Column diameter: 0.25

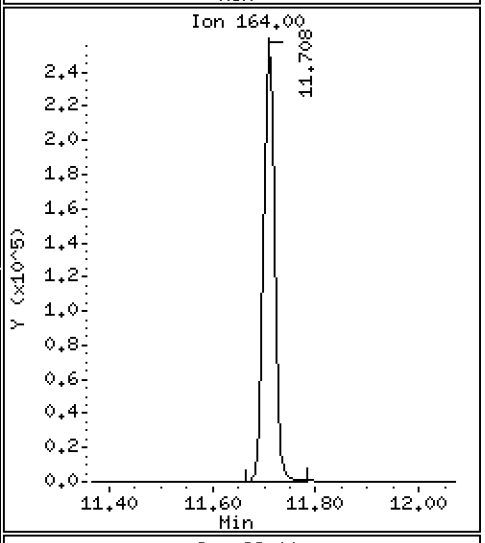
25 2,4-Dichlorophenol

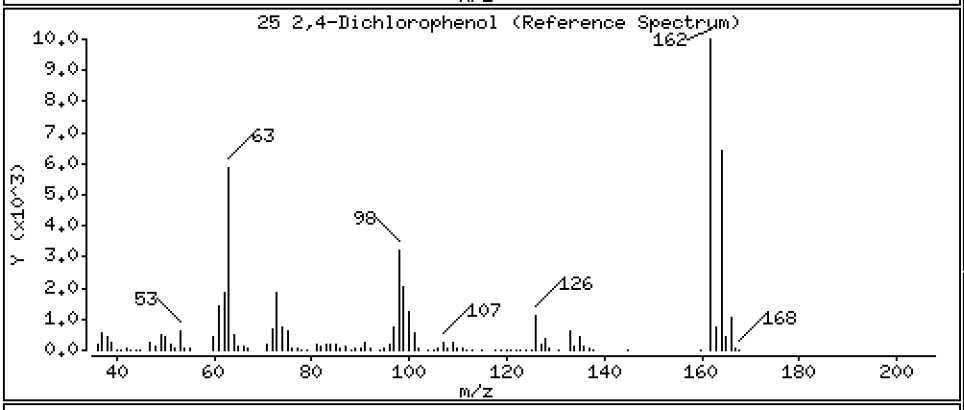
Concentration: 11.15 ug/mL

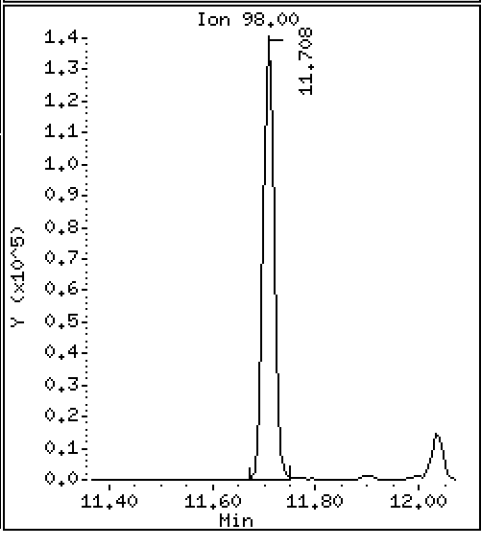


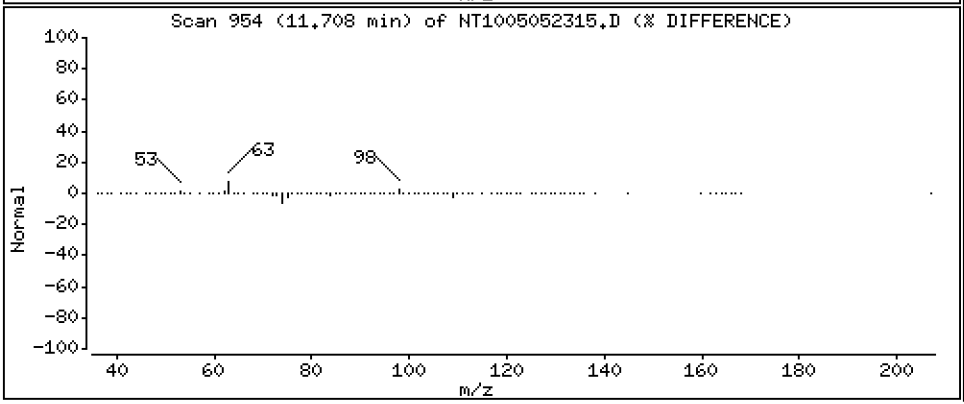












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

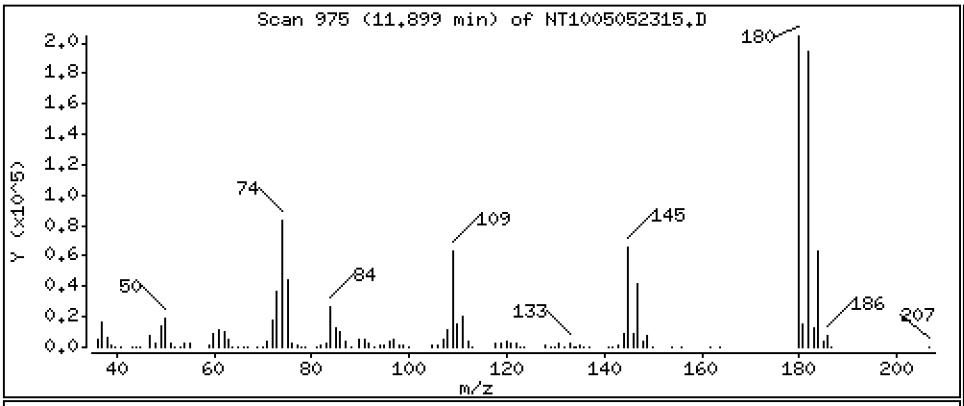
Operator: VTS

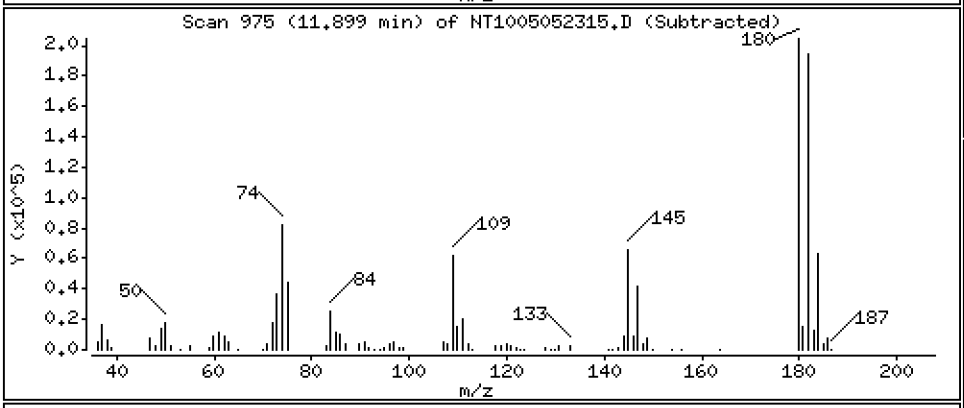
Column phase: ZB-5msi

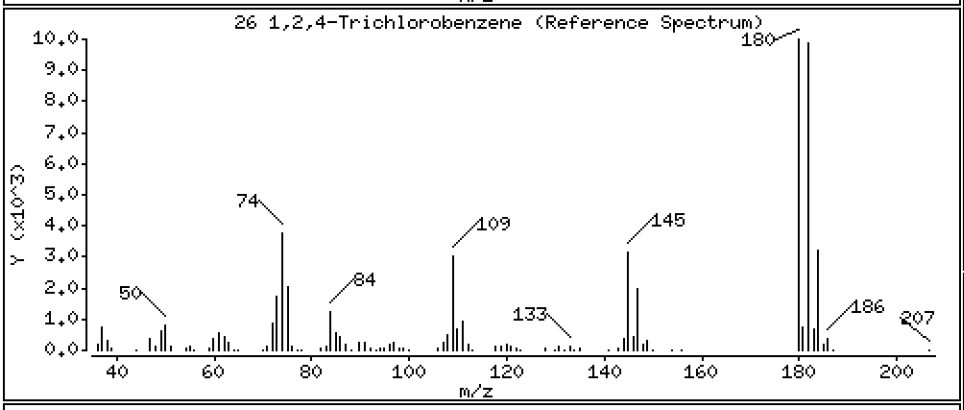
Column diameter: 0.25

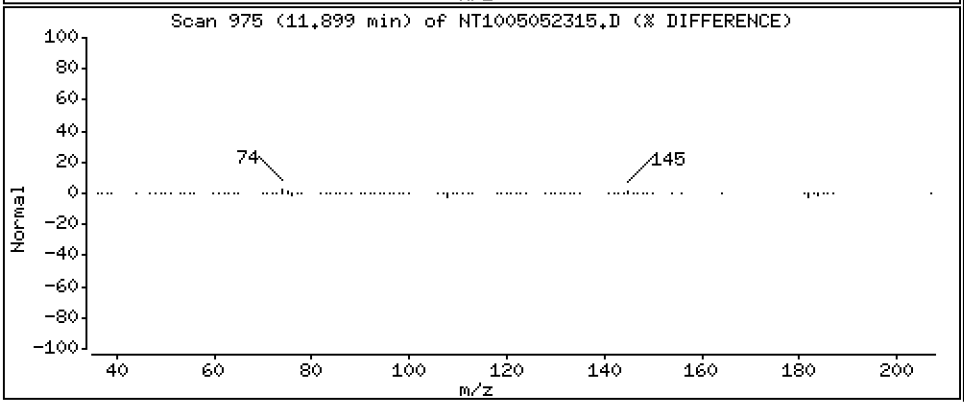
26 1,2,4-Trichlorobenzene

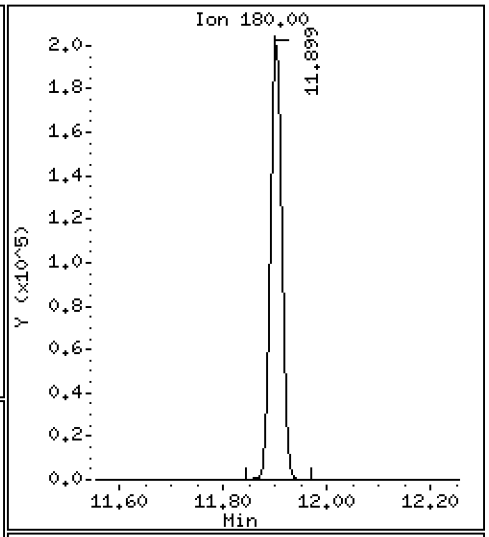
Concentration: 4.469 ug/mL

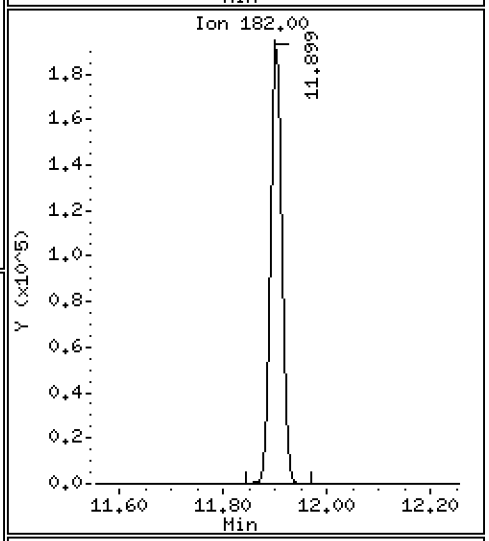


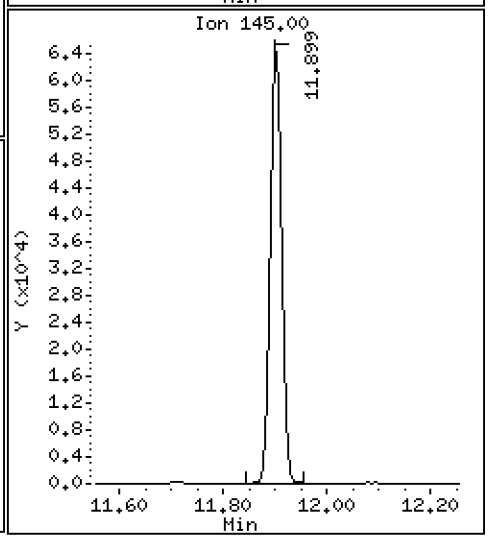












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

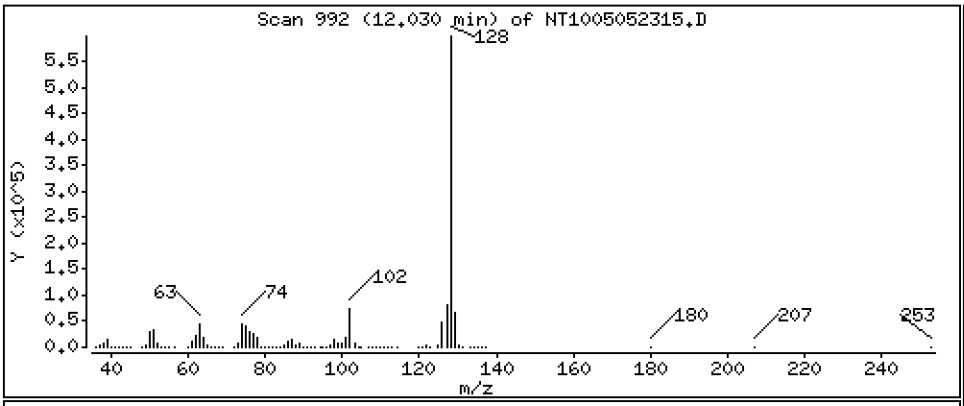
Operator: VTS

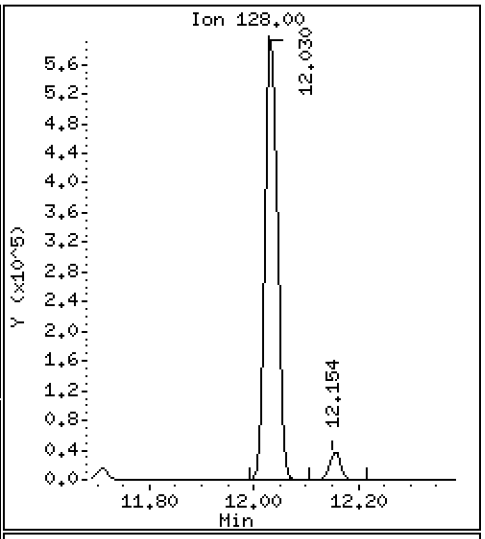
Column phase: ZB-5msi

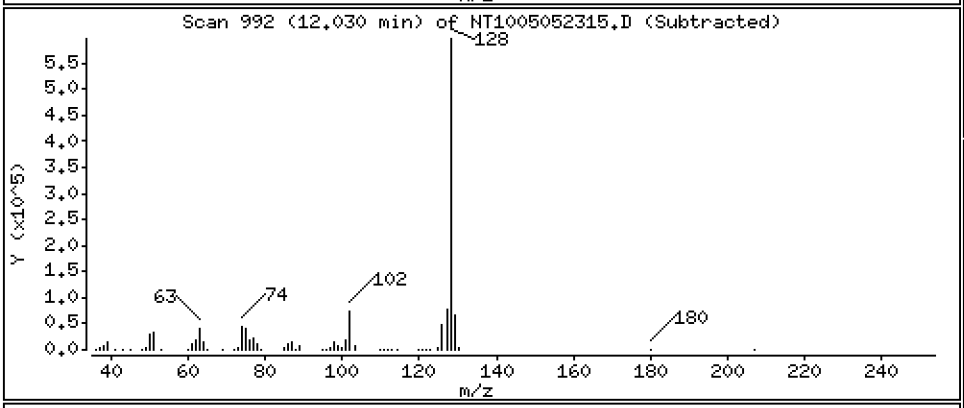
Column diameter: 0.25

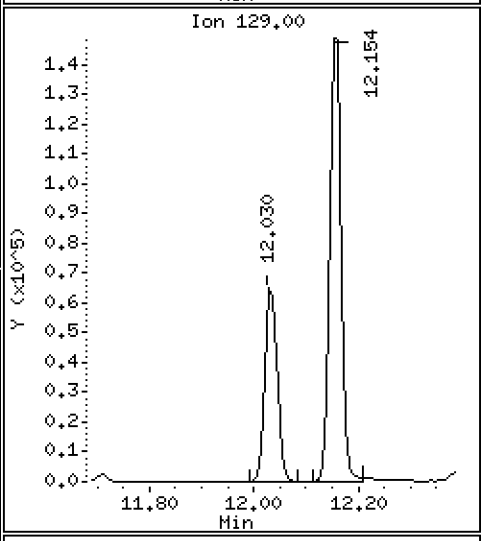
28 Naphthalene

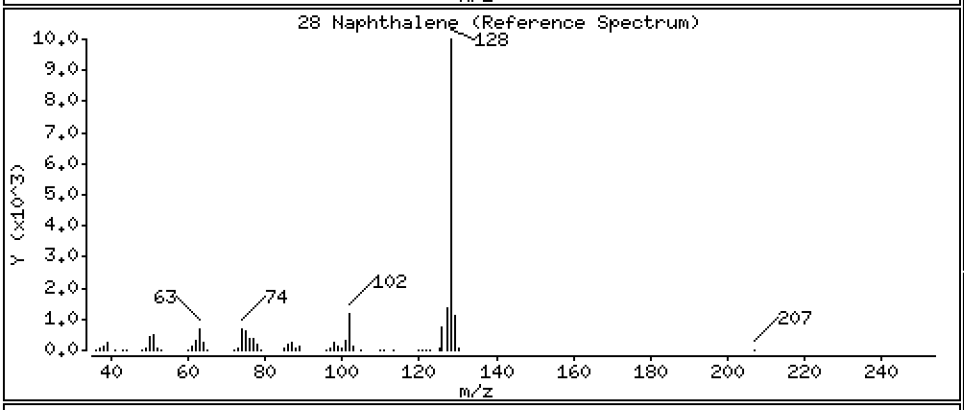
Concentration: 4.773 ug/mL

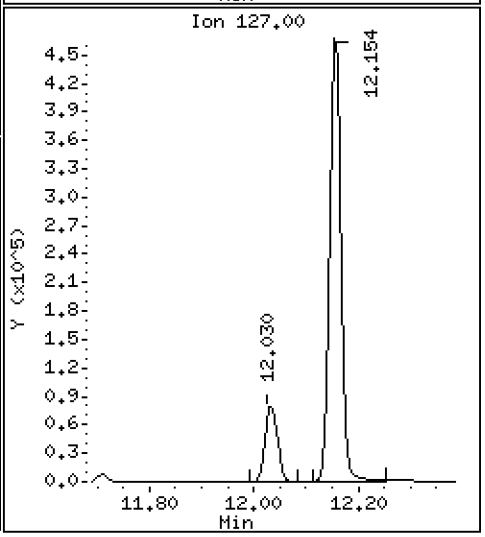


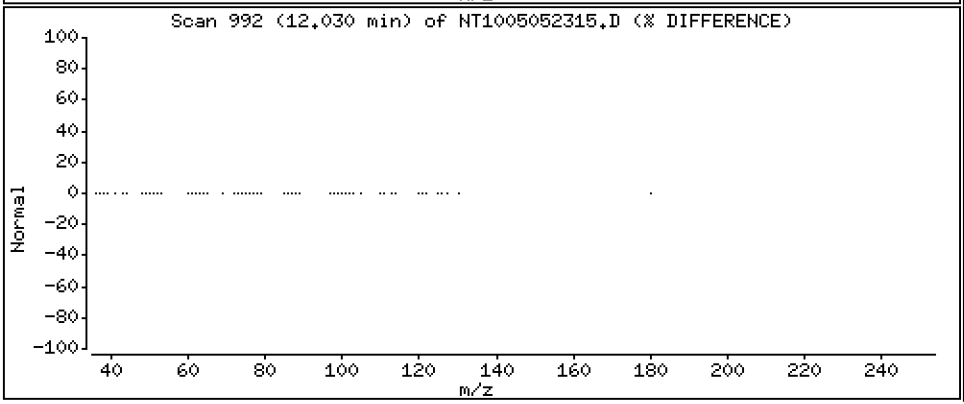












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

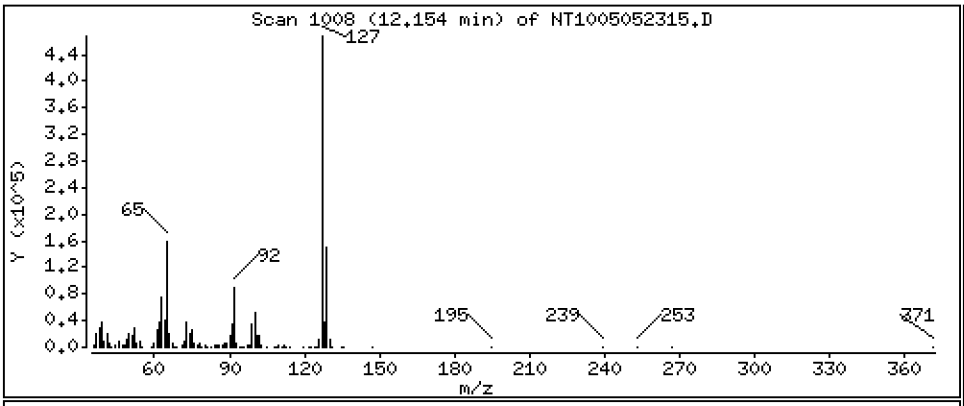
Operator: VTS

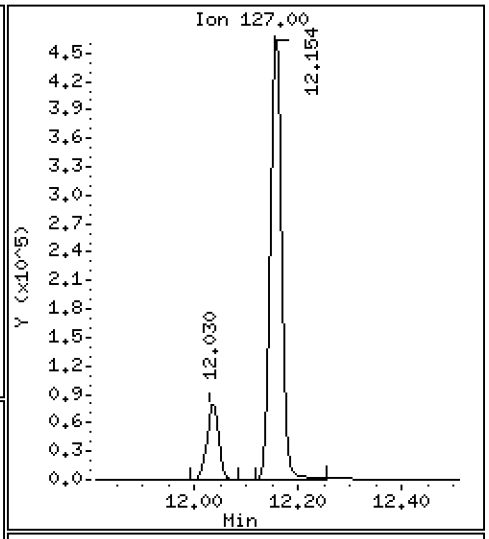
Column phase: ZB-5msi

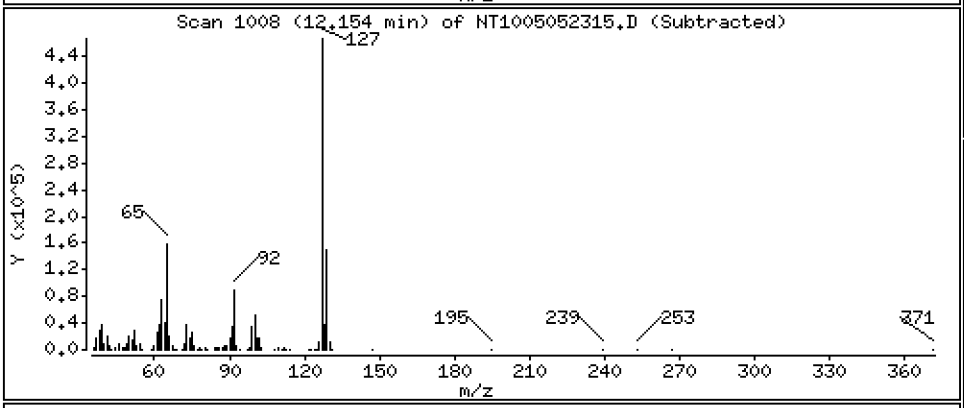
Column diameter: 0.25

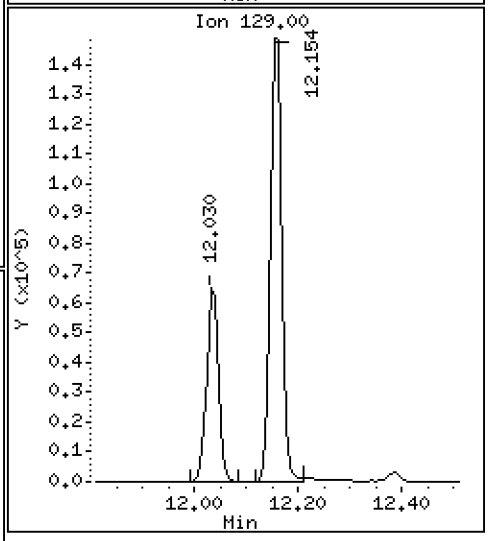
29 4-Chloroaniline

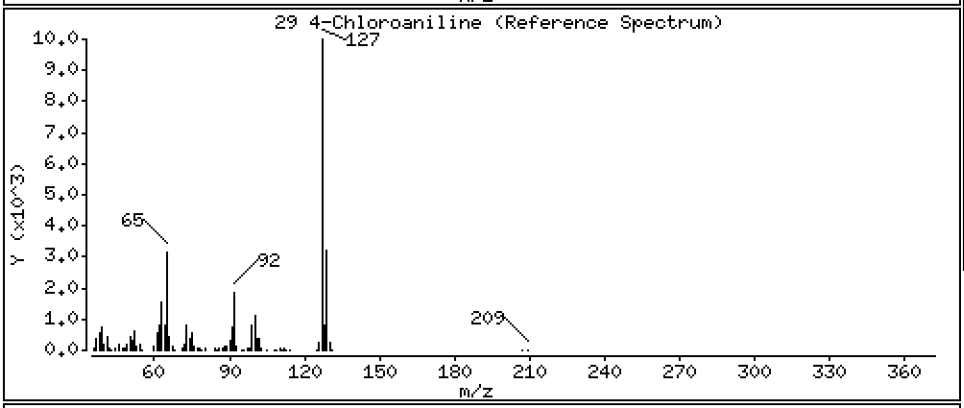
Concentration: 10.18 ug/mL

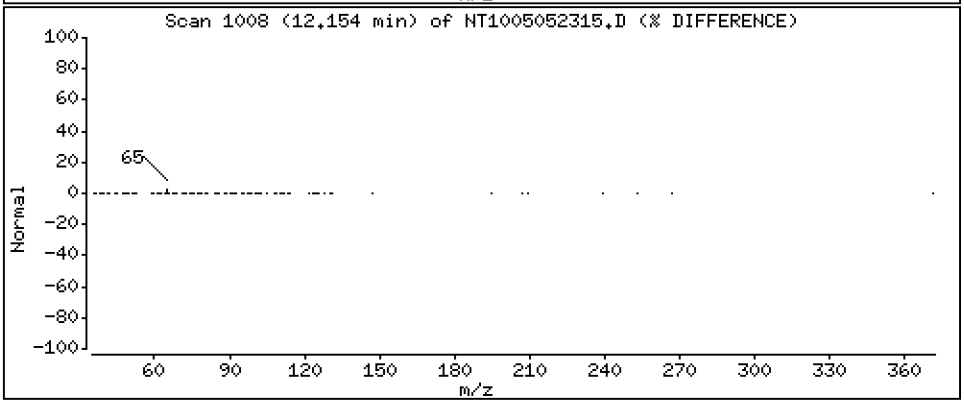












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

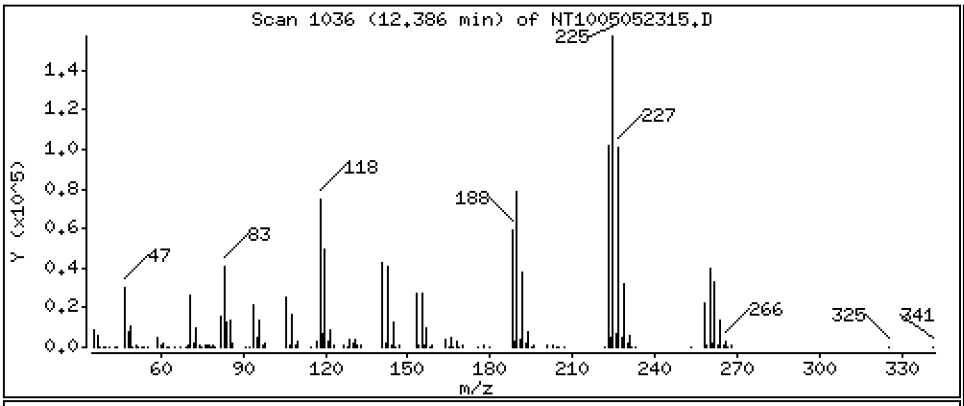
Operator: VTS

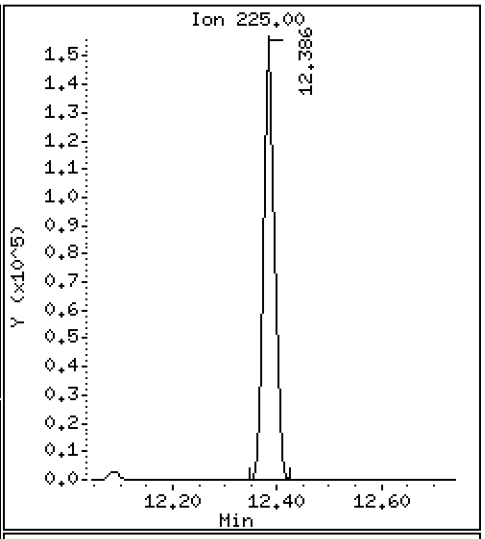
Column phase: ZB-5msi

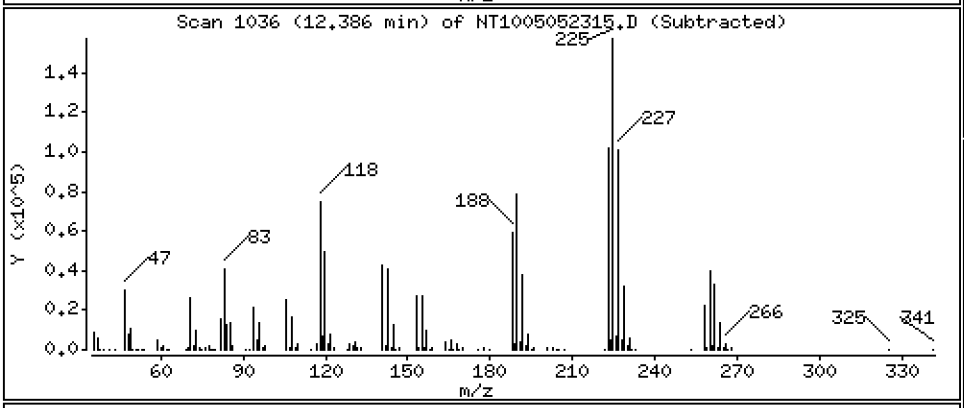
Column diameter: 0.25

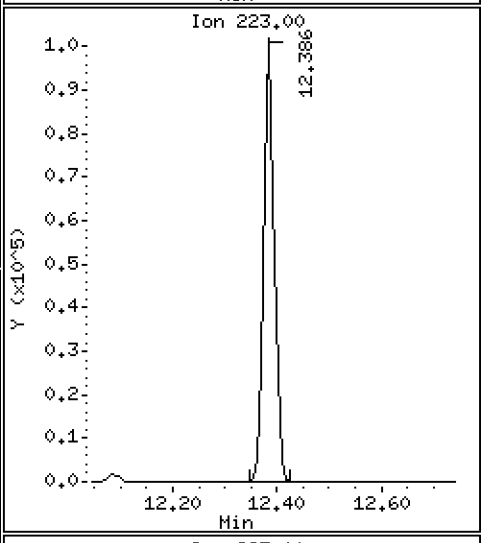
30 Hexachlorobutadiene

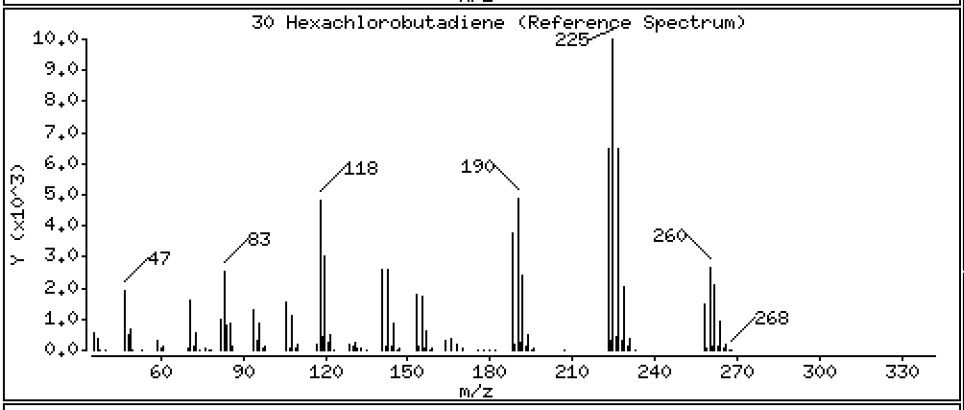
Concentration: 4.737 ug/mL

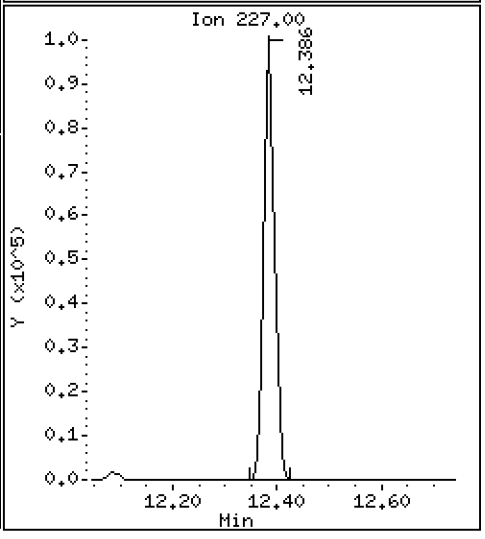


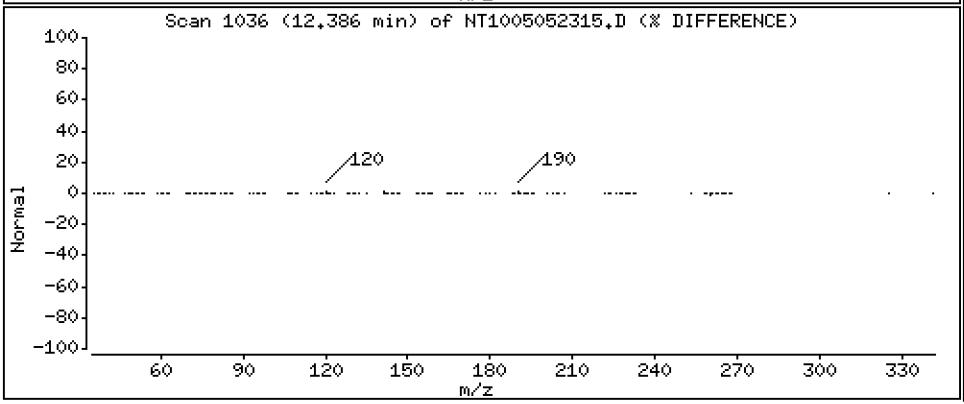












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

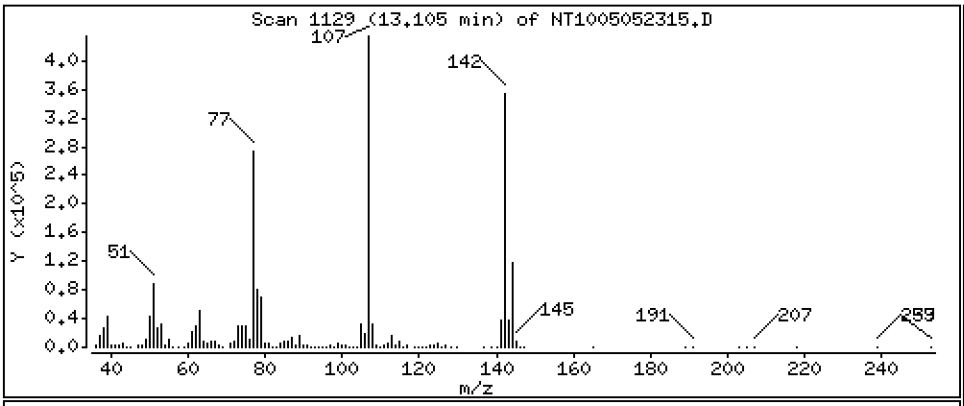
Operator: VTS

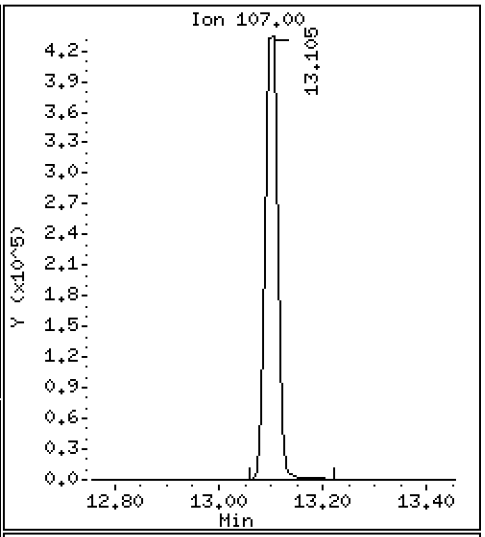
Column phase: ZB-5msi

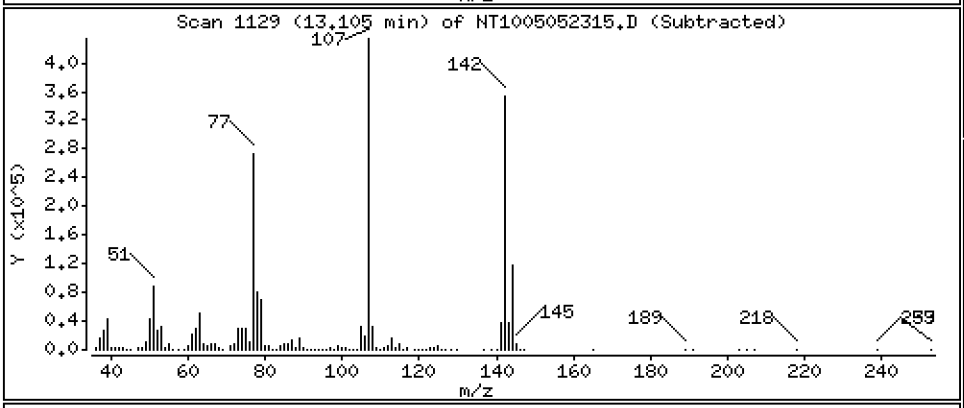
Column diameter: 0.25

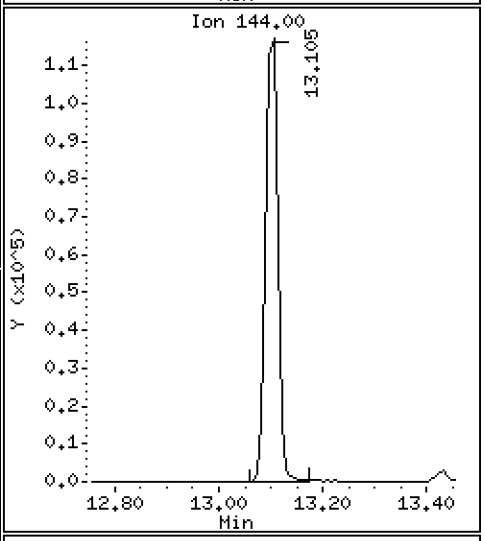
31 4-Chloro-3-methylphenol

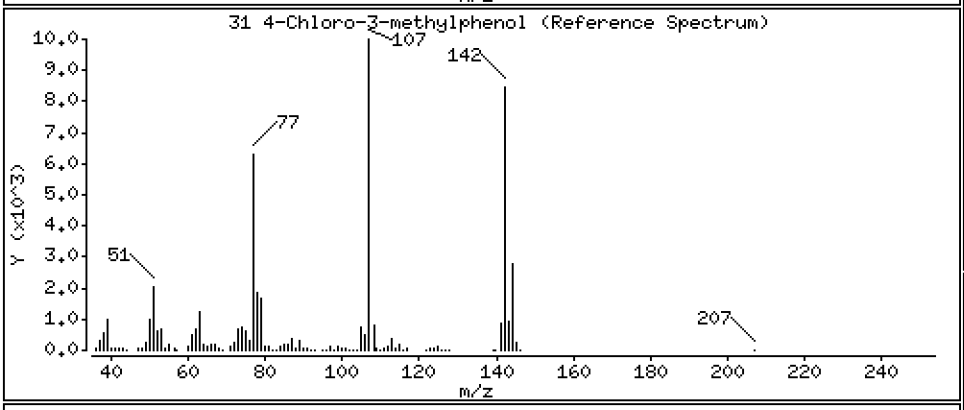
Concentration: 10.68 ug/mL

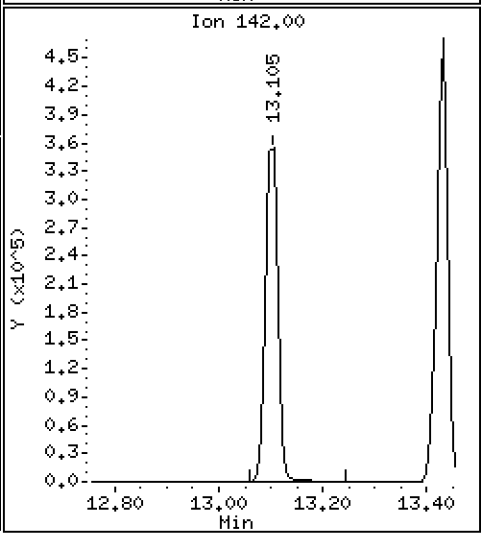


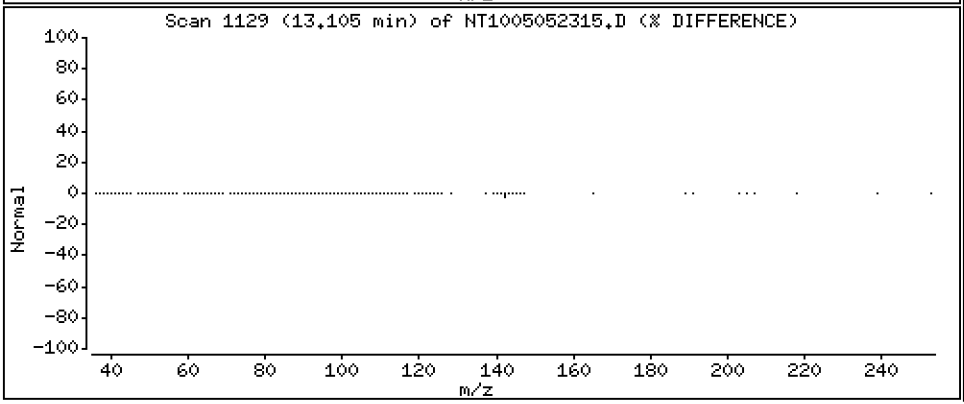












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

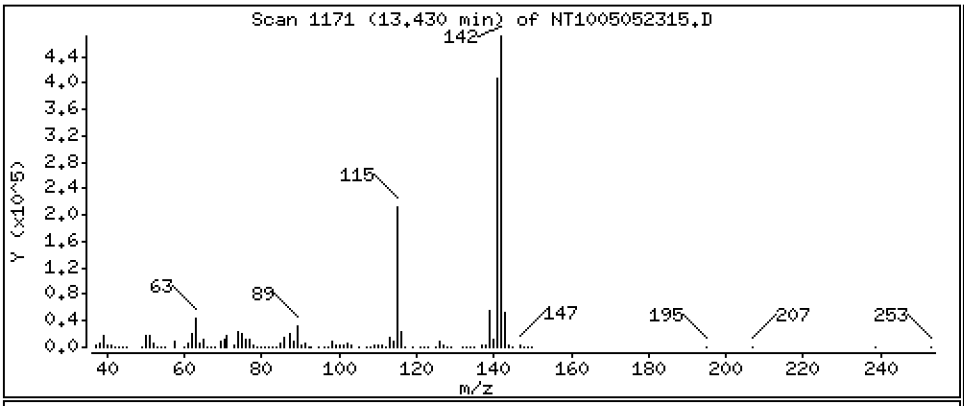
Operator: VTS

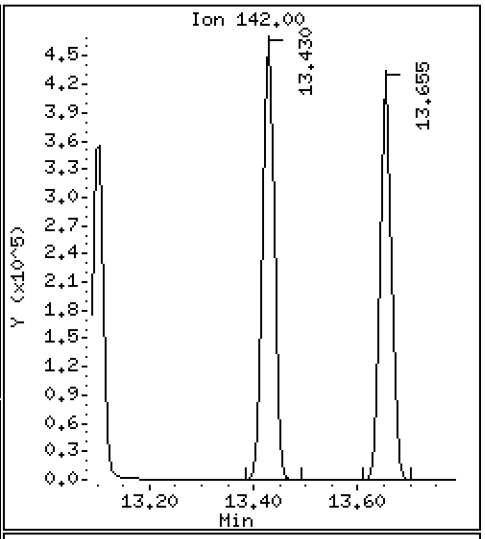
Column phase: ZB-5msi

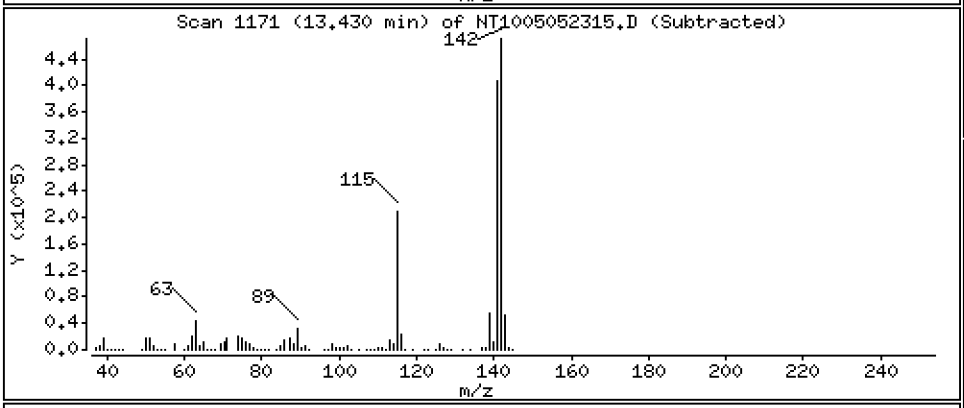
Column diameter: 0.25

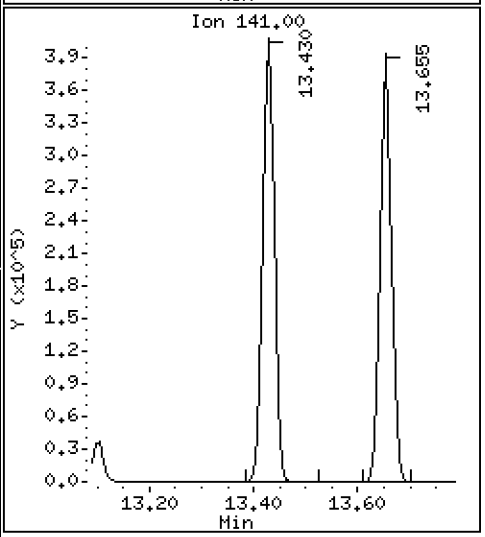
32 2-Methylnaphthalene

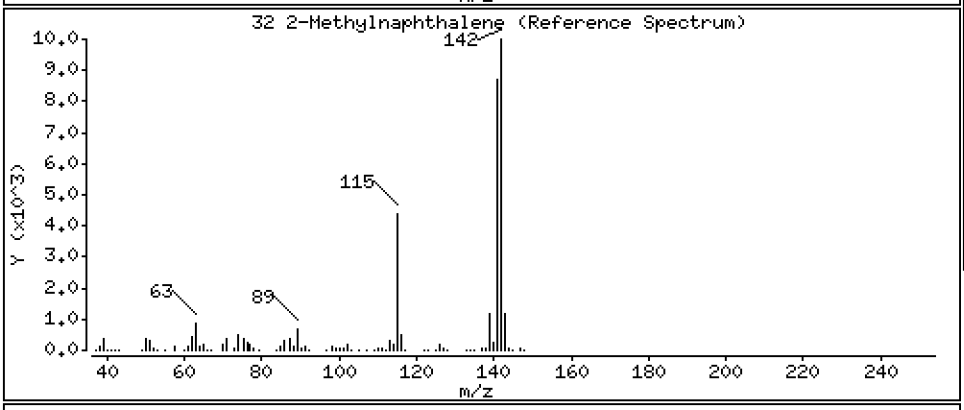
Concentration: 4.649 ug/mL

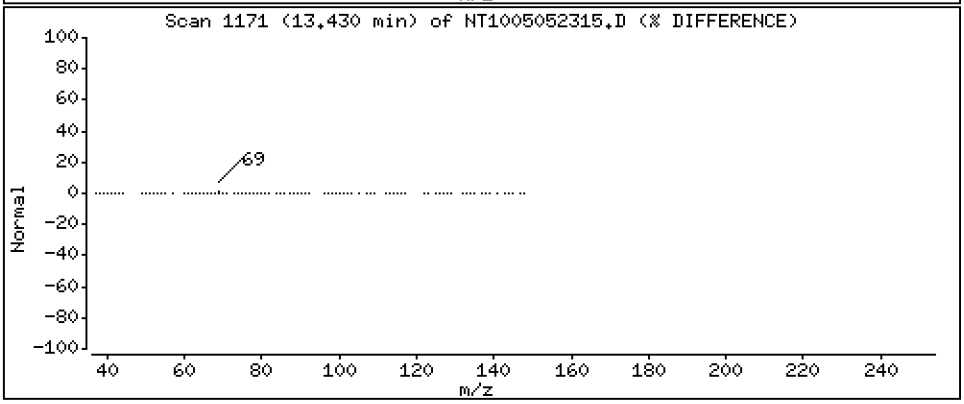












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

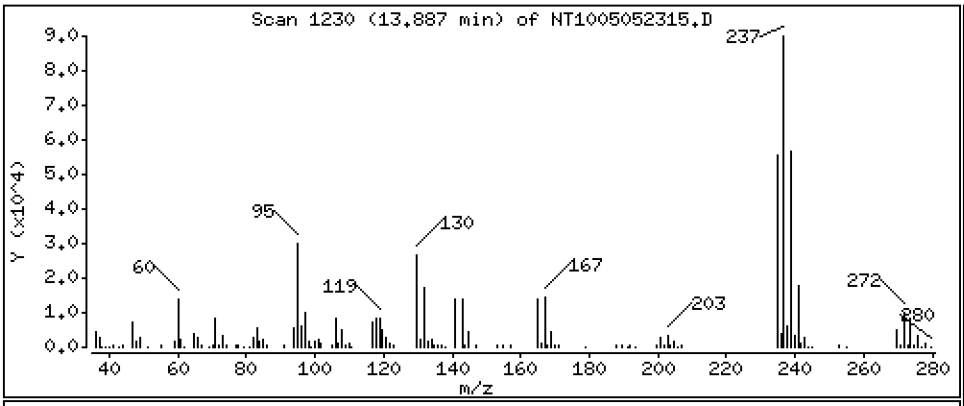
Operator: VTS

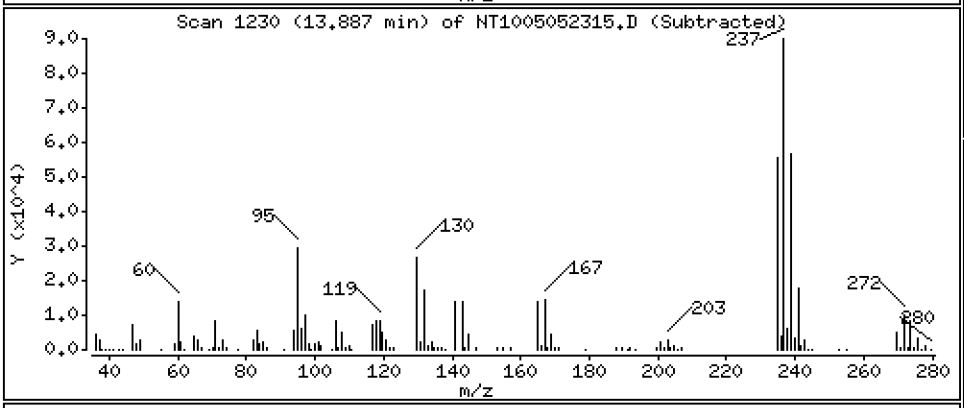
Column phase: ZB-5msi

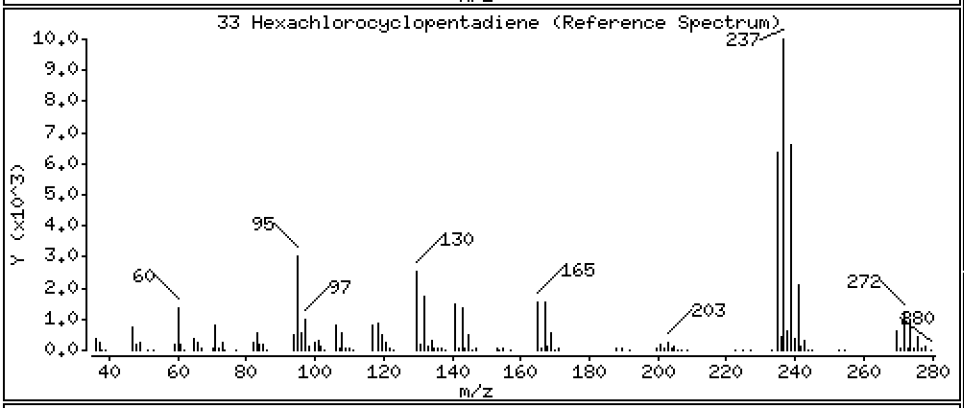
Column diameter: 0.25

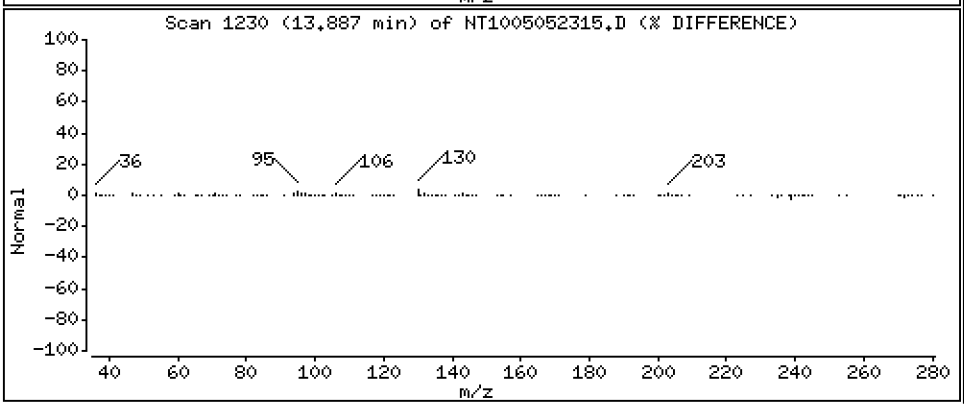
33 Hexachlorocyclopentadiene

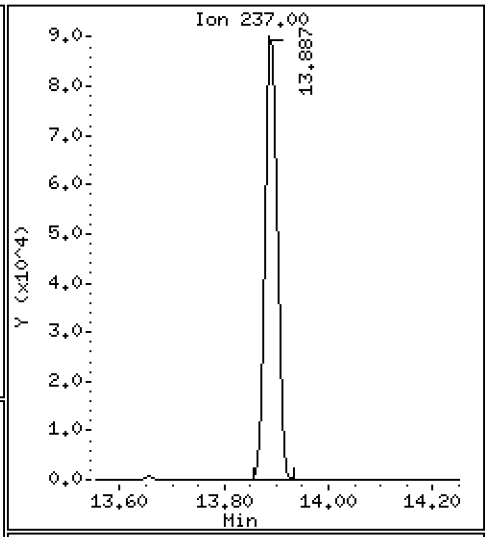
Concentration: 2.831 ug/mL

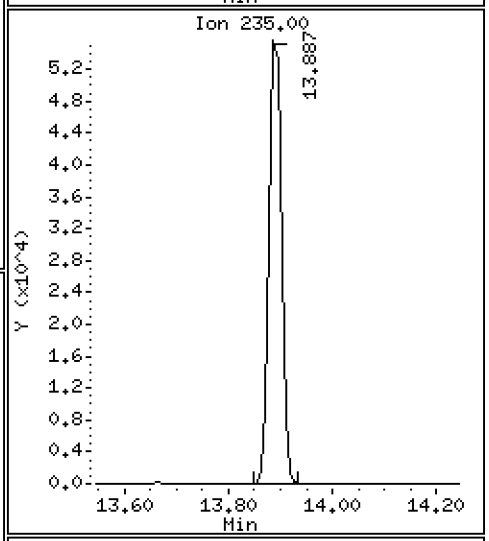


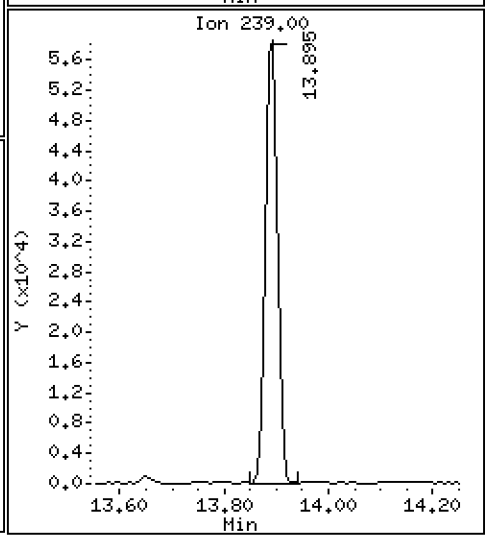












Date : 05-MAY-2023 19:50

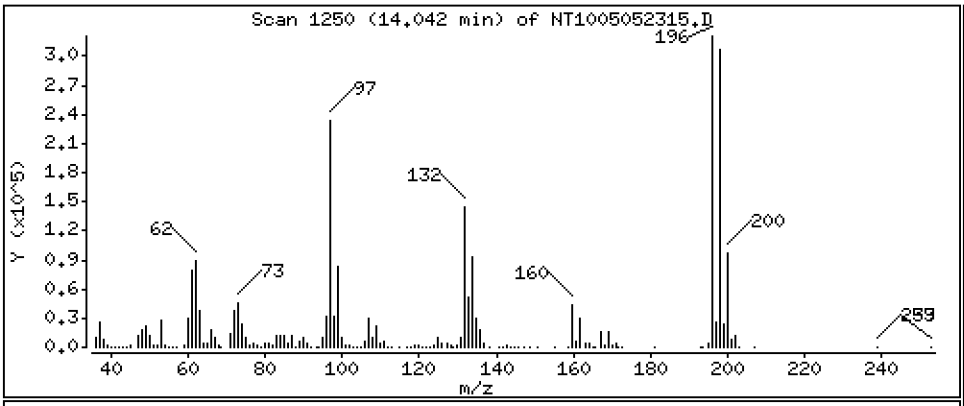
Client ID: Instrument: nt10.i

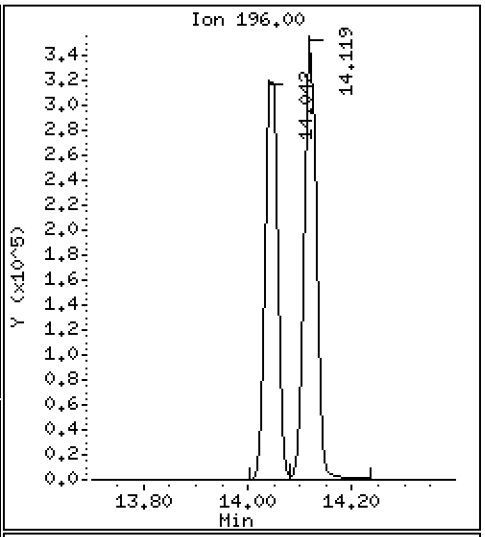
Sample Info: SLE0101-CCV1

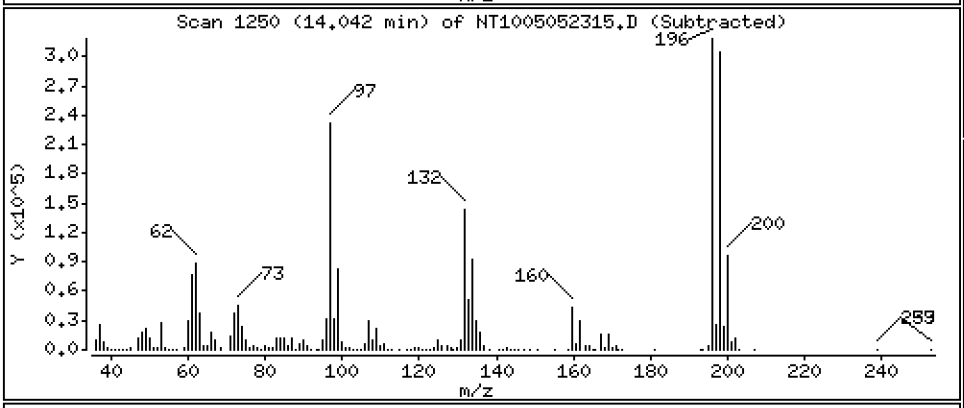
Operator: VTS

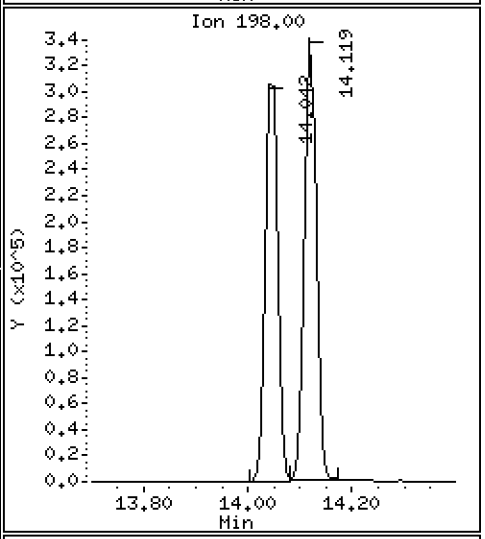
Column phase: ZB-5msi Column diameter: 0.25

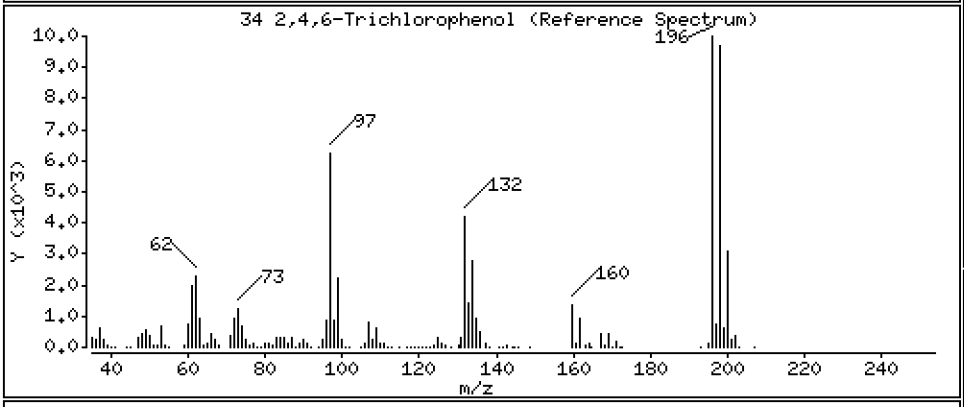
34 2,4,6-Trichlorophenol Concentration: 10.24 ug/mL

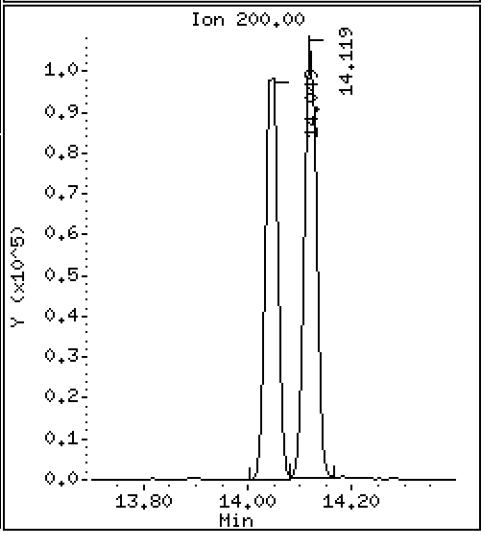


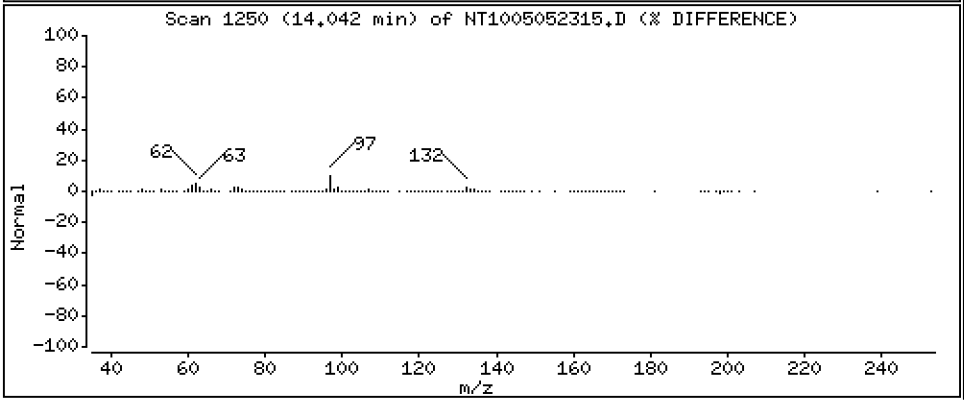












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

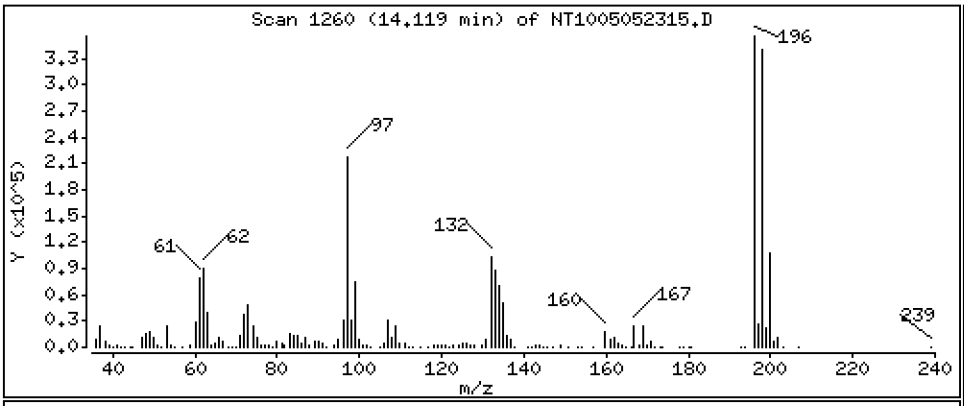
Operator: VTS

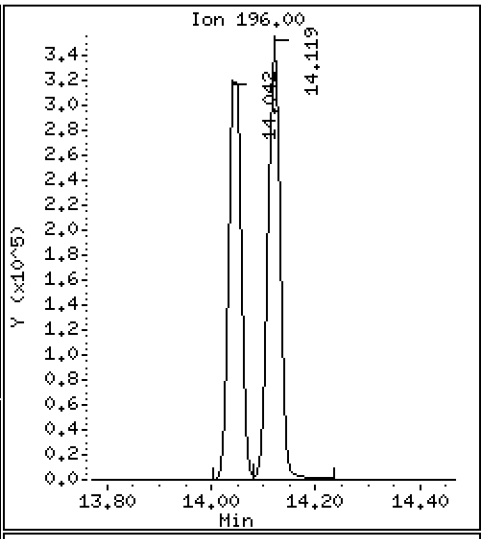
Column phase: ZB-5msi

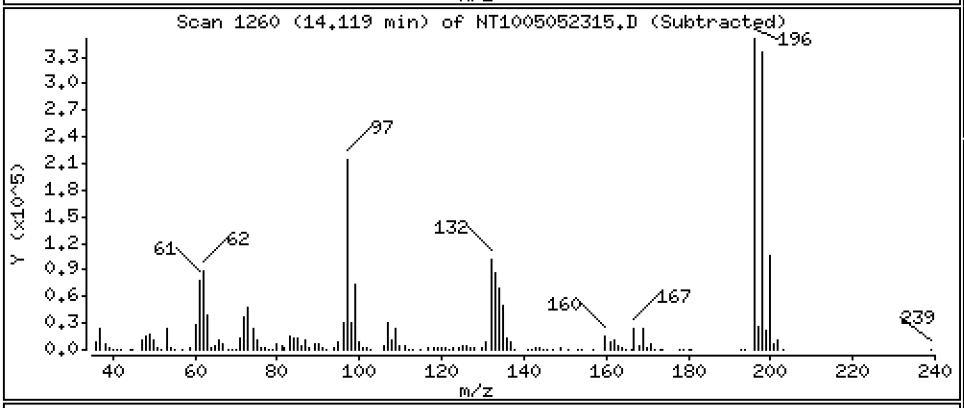
Column diameter: 0.25

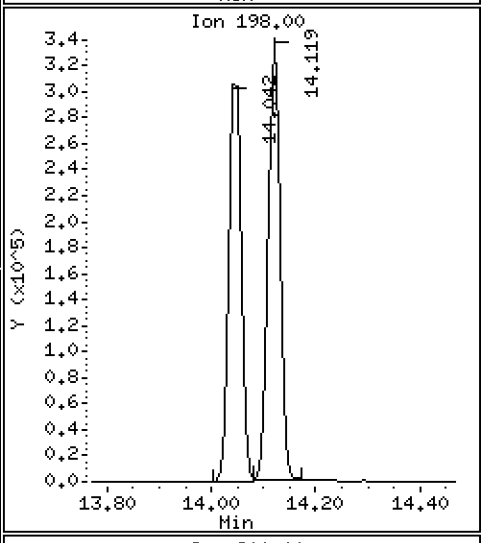
35 2,4,5-Trichlorophenol

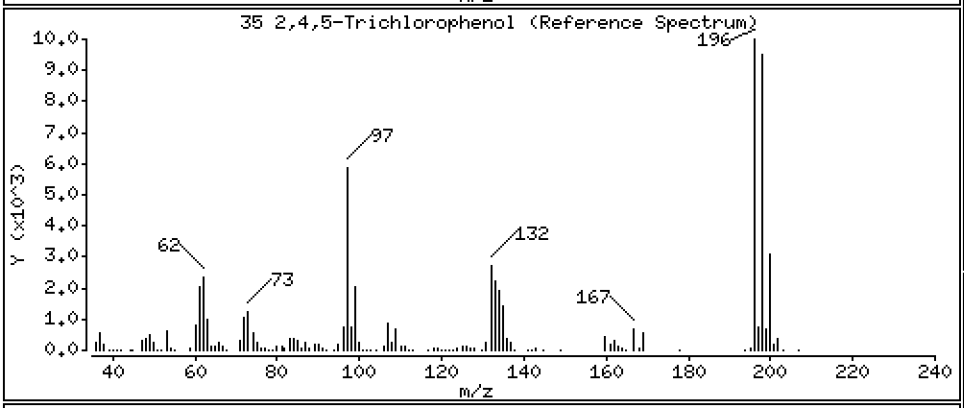
Concentration: 10.07 ug/mL

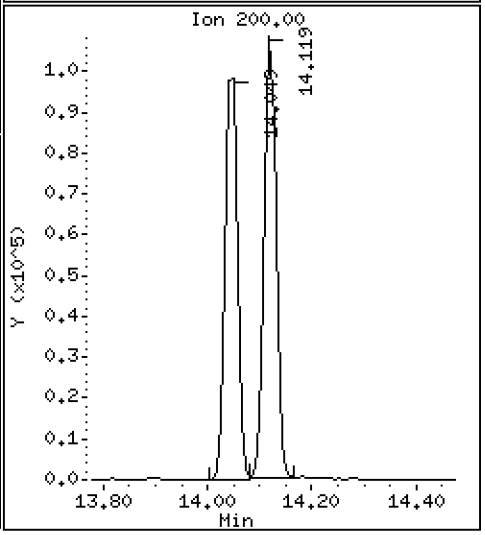


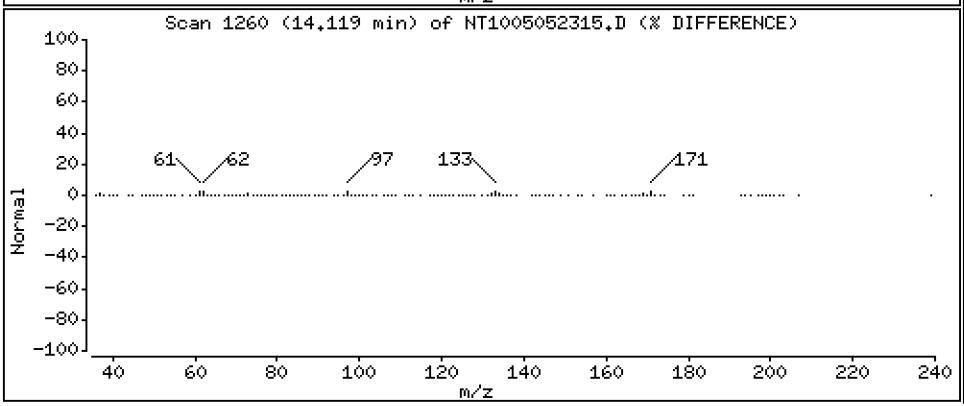












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

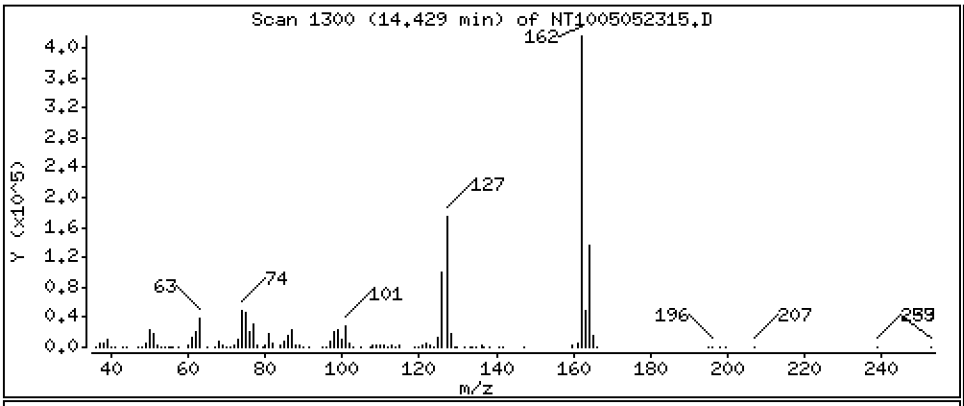
Operator: VTS

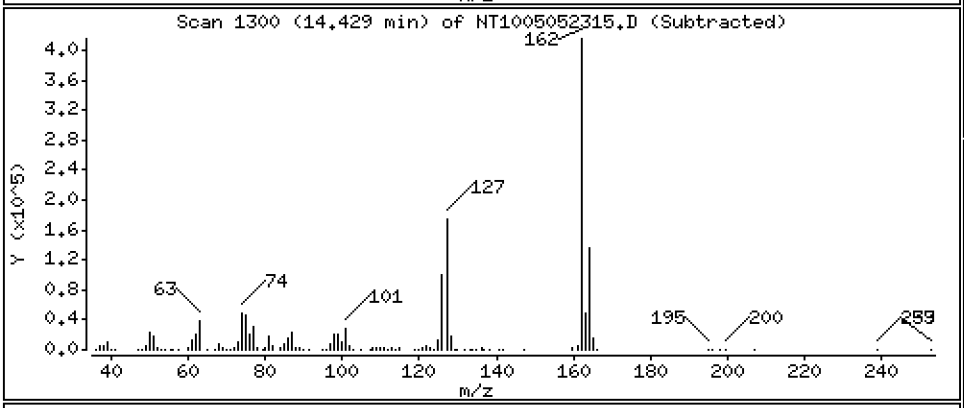
Column phase: ZB-5msi

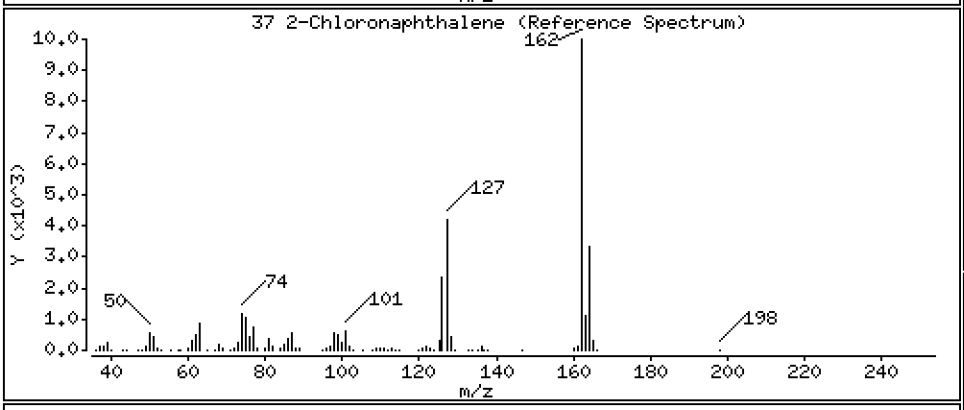
Column diameter: 0.25

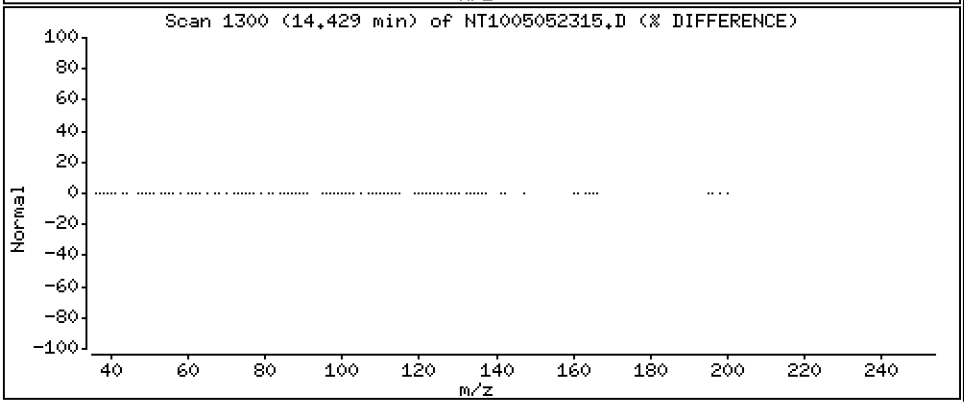
37 2-Chloronaphthalene

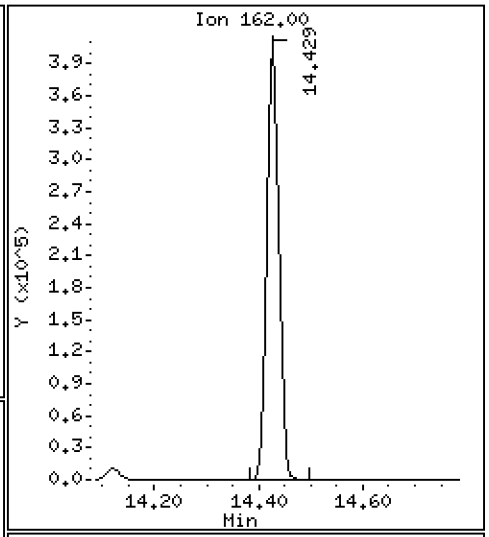
Concentration: 4.734 ug/mL

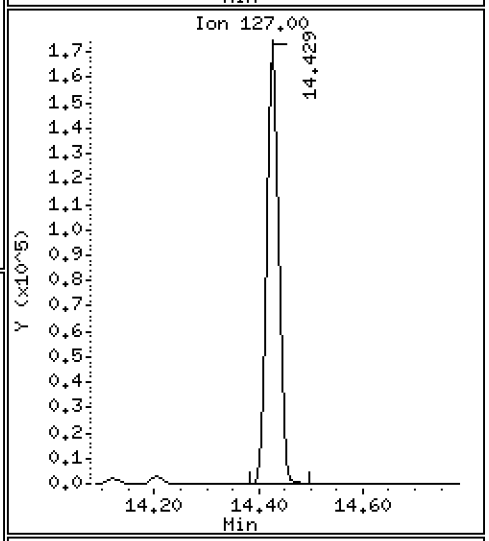


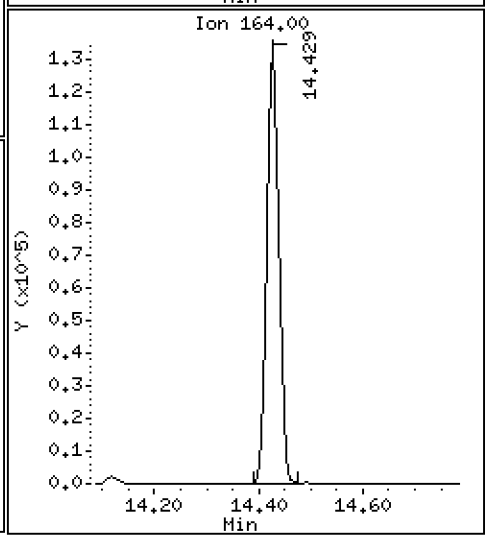












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

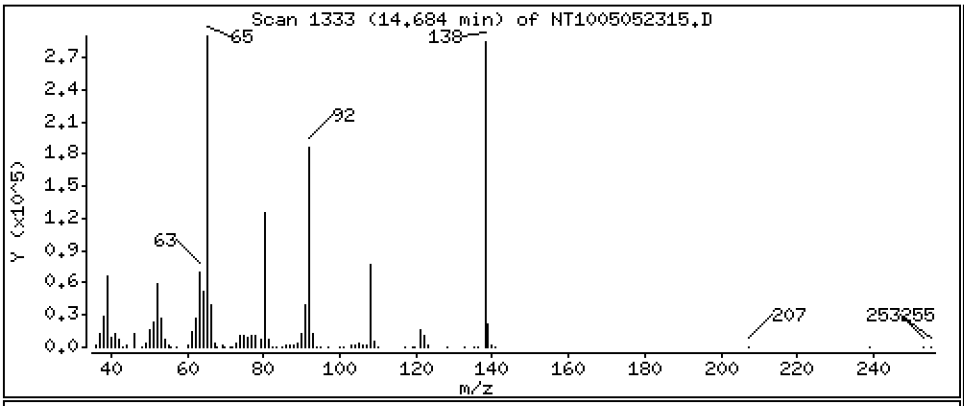
Operator: VTS

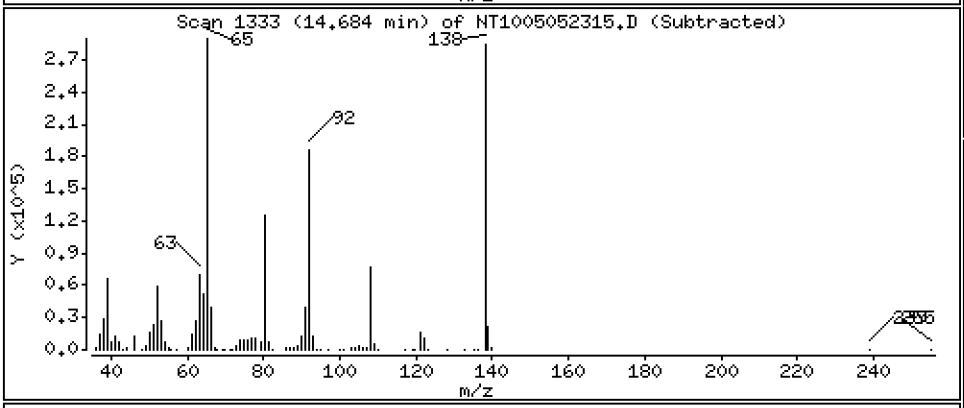
Column phase: ZB-5msi

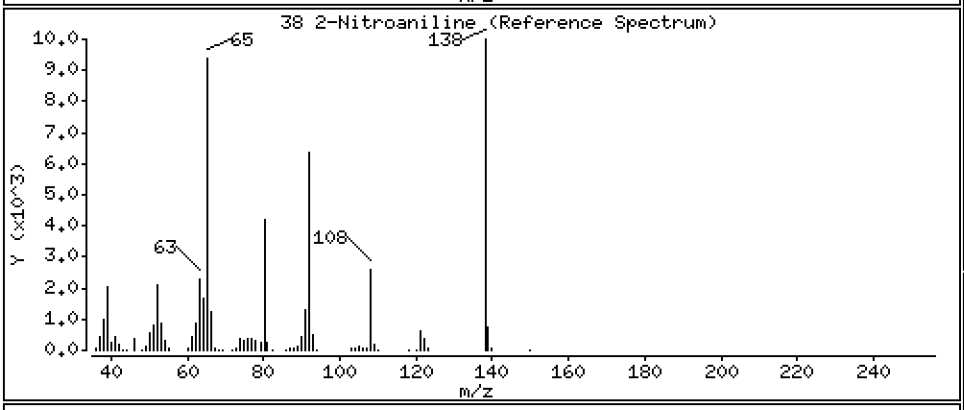
Column diameter: 0.25

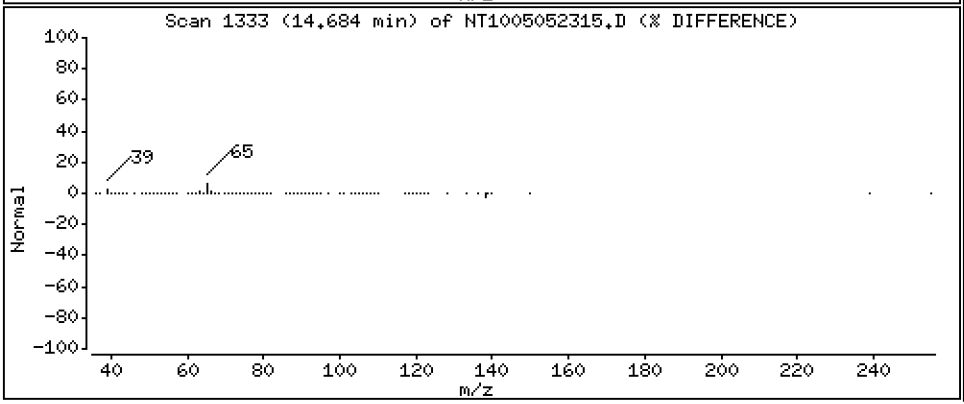
38 2-Nitroaniline

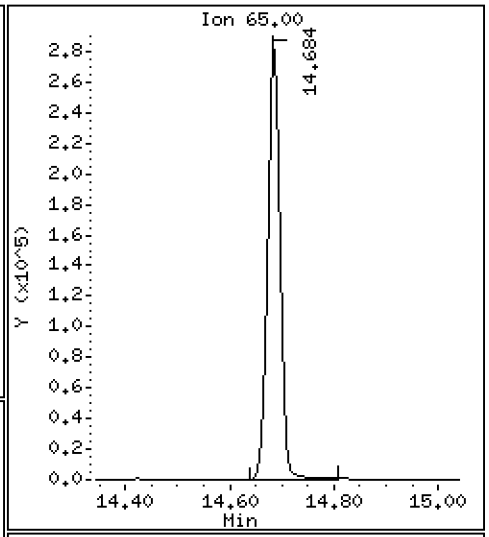
Concentration: 11.48 ug/mL

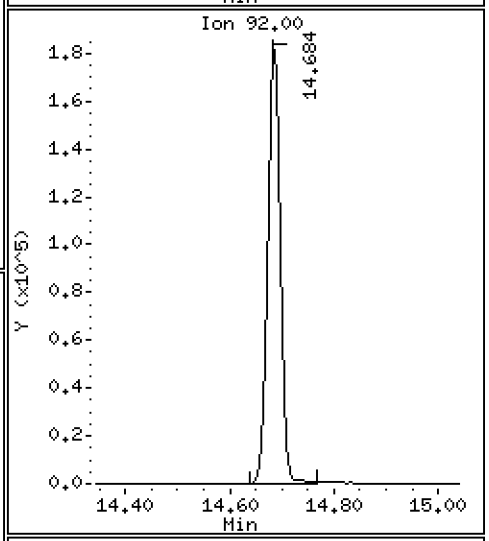


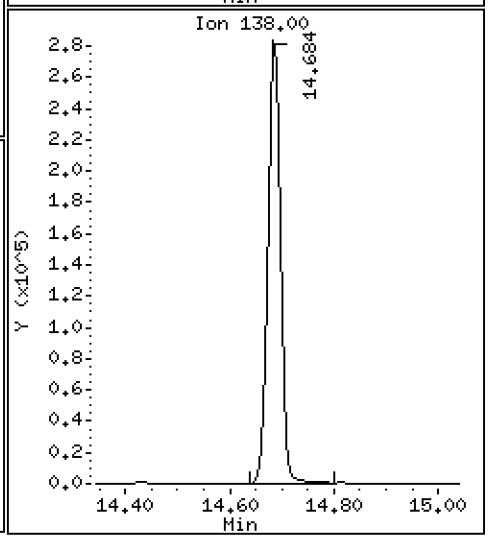












Date : 05-MAY-2023 19:50

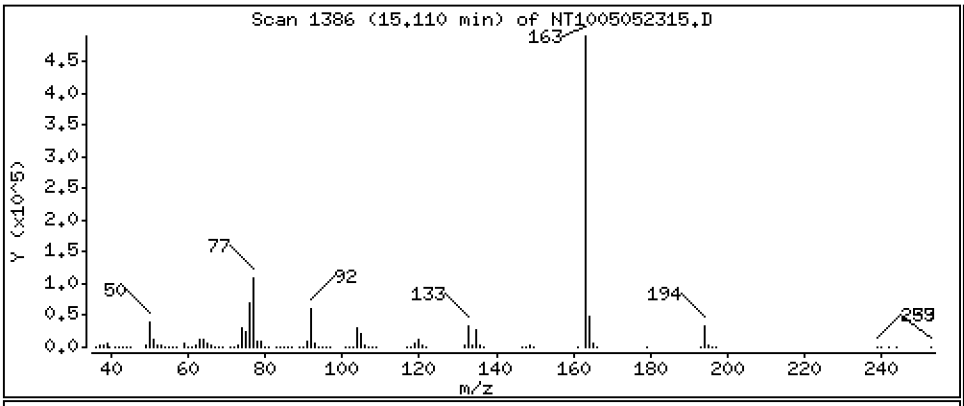
Client ID: Instrument: nt10.i

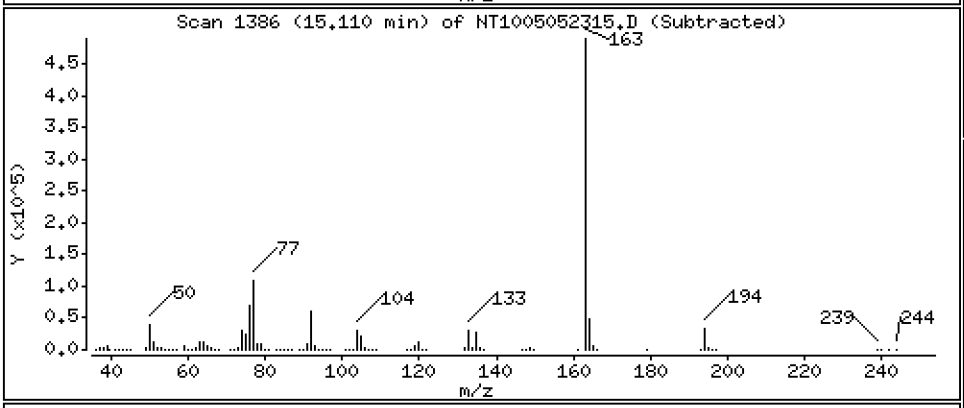
Sample Info: SLE0101-CCV1

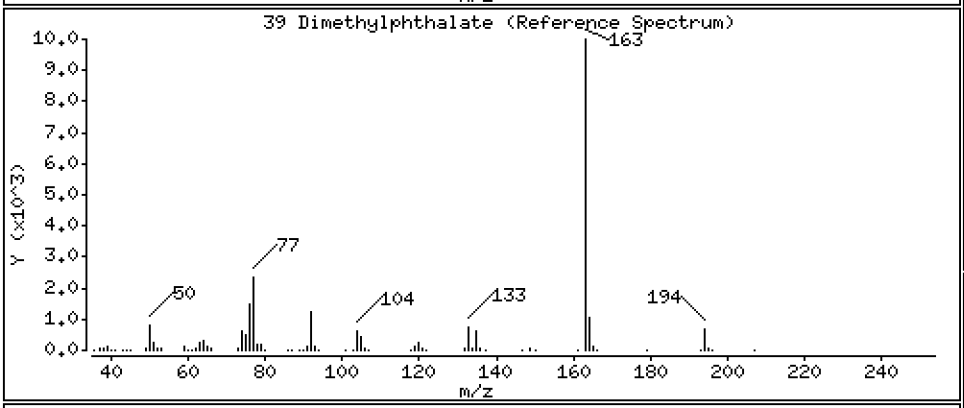
Operator: VTS

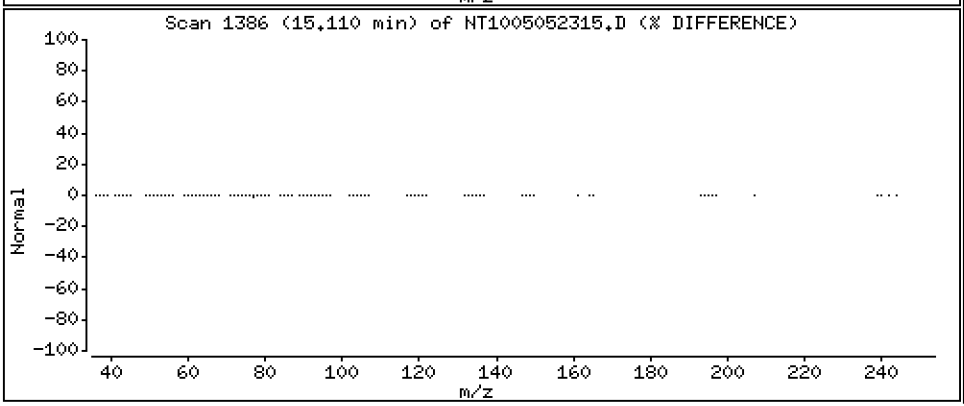
Column phase: ZB-5msi Column diameter: 0.25

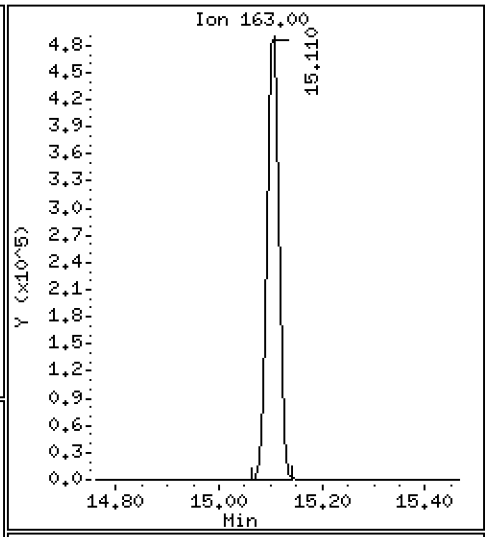
39 Dimethylphthalate Concentration: 4.889 ug/mL

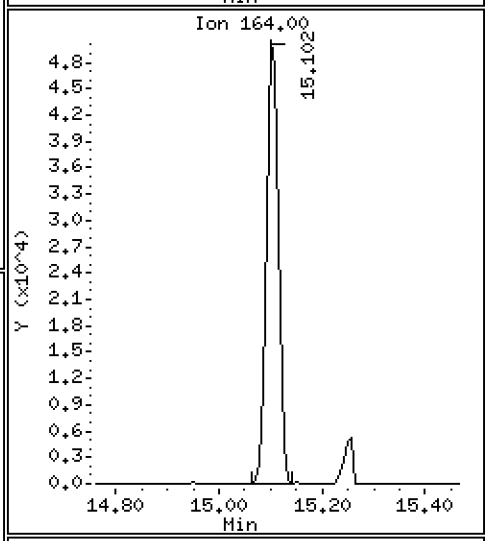


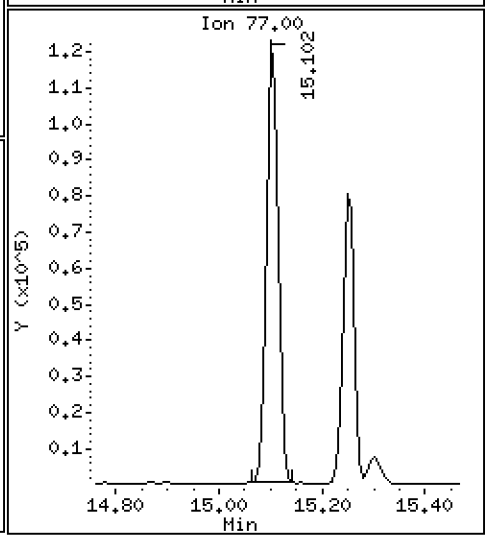












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

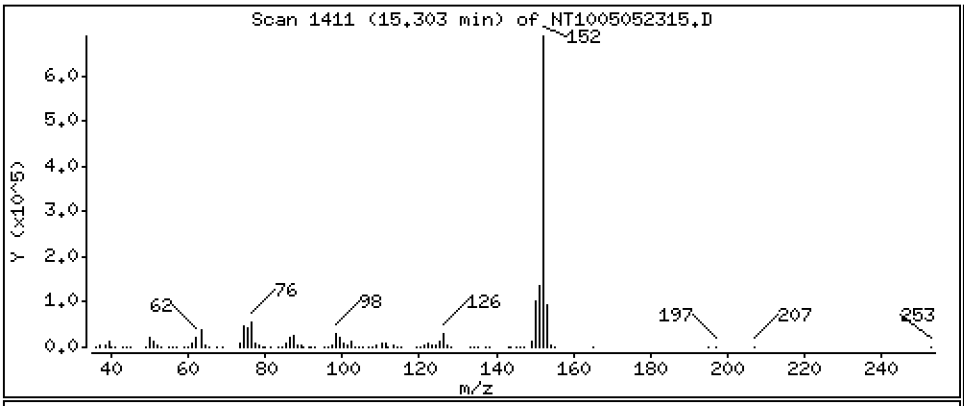
Operator: VTS

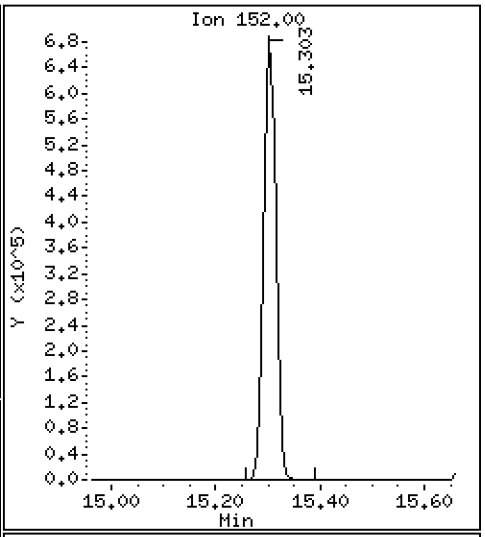
Column phase: ZB-5msi

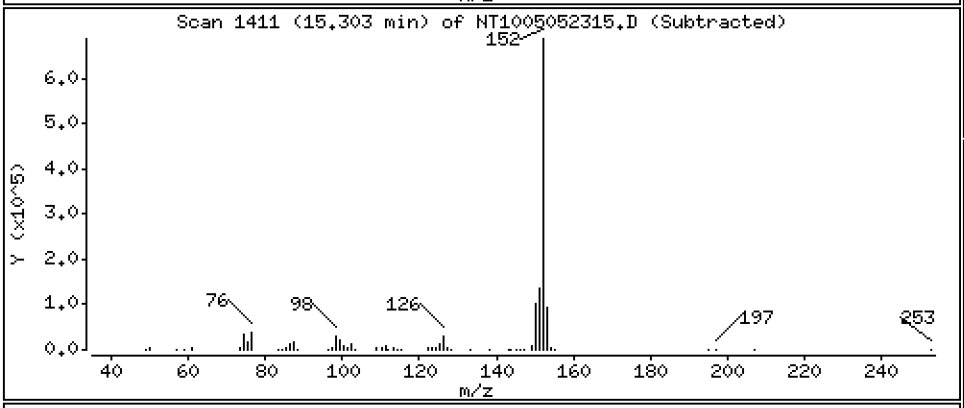
Column diameter: 0.25

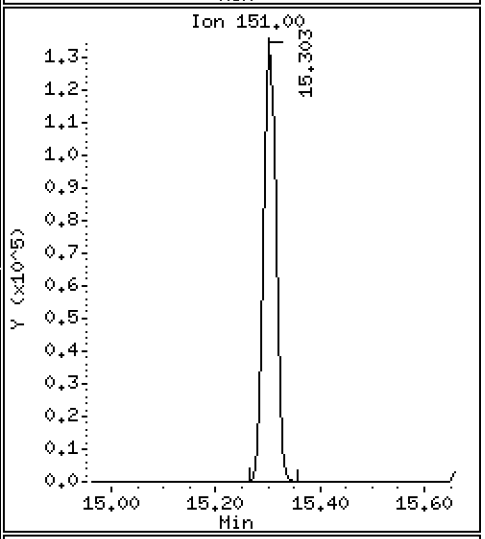
40 Acenaphthylene

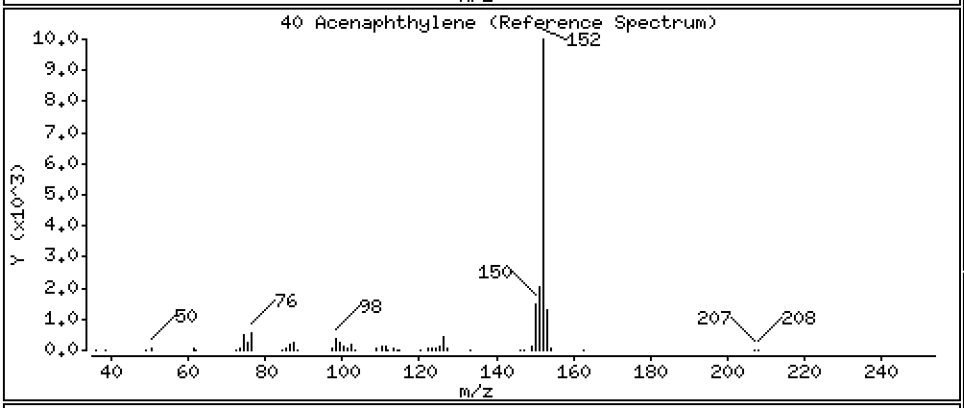
Concentration: 4.935 ug/mL

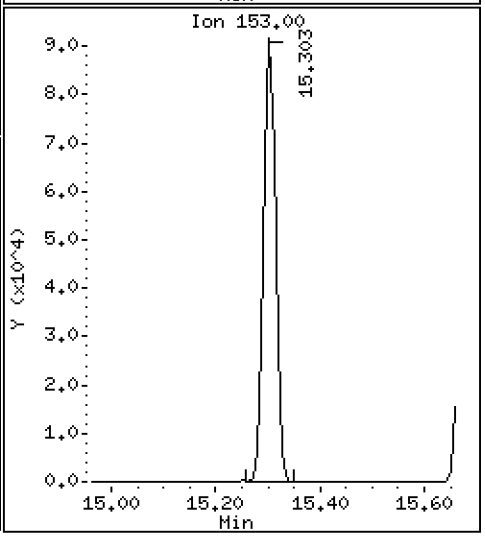


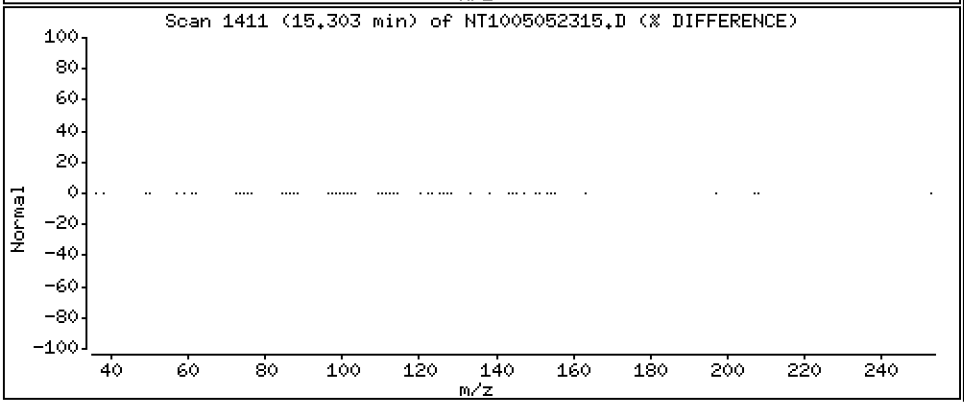












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

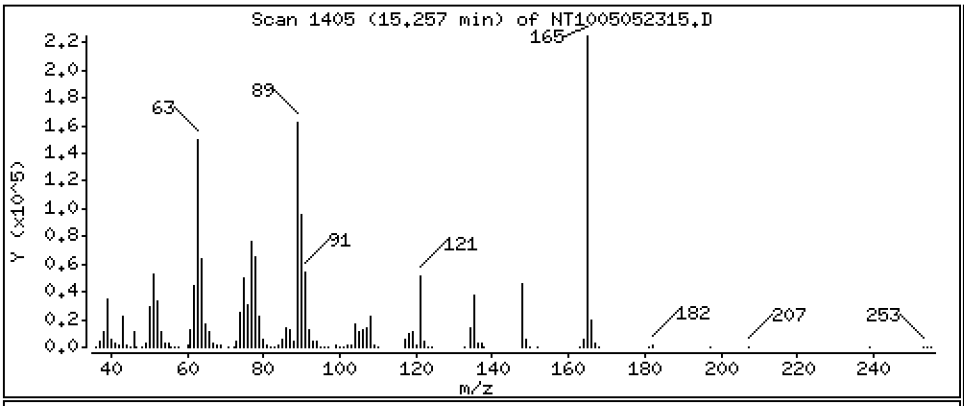
Operator: VTS

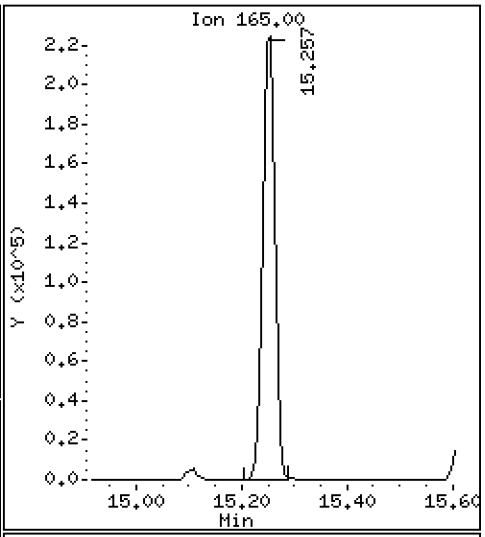
Column phase: ZB-5msi

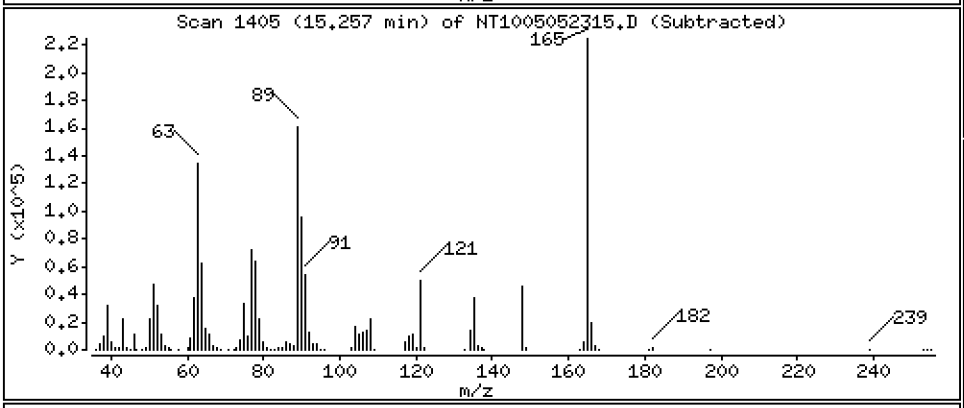
Column diameter: 0.25

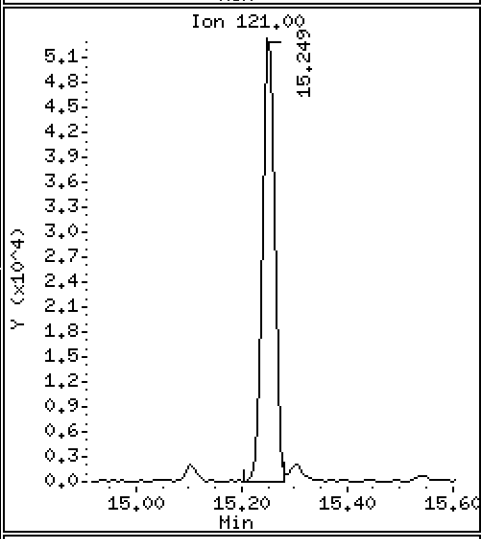
41 2,6-Dinitrotoluene

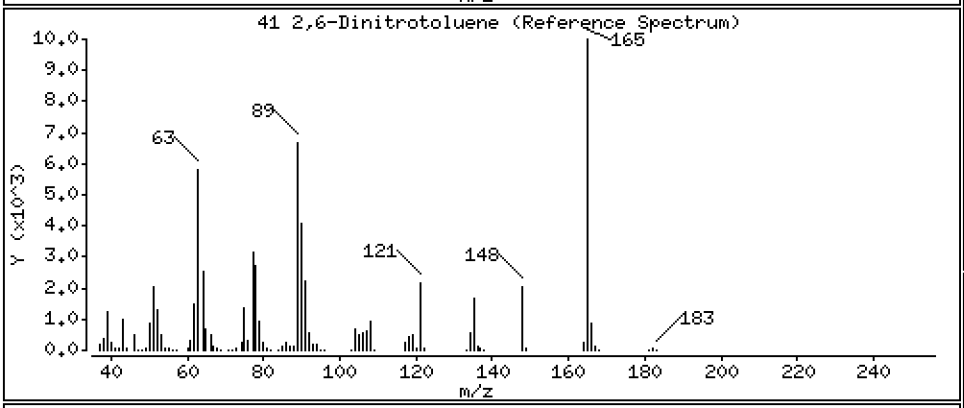
Concentration: 10.13 ug/mL

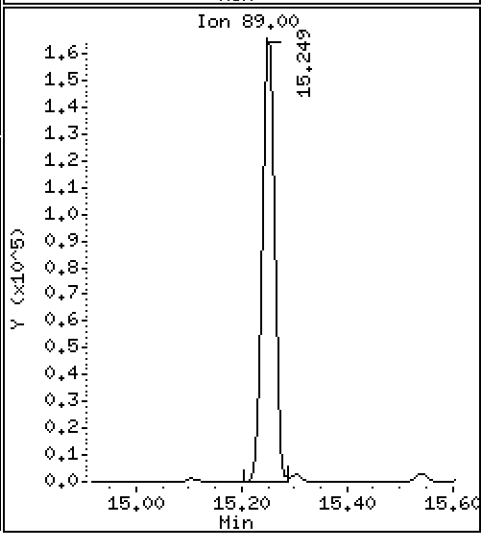


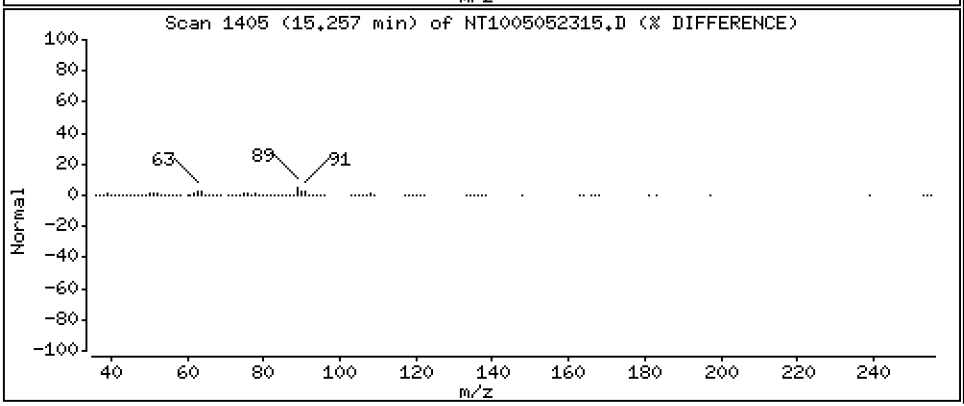












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

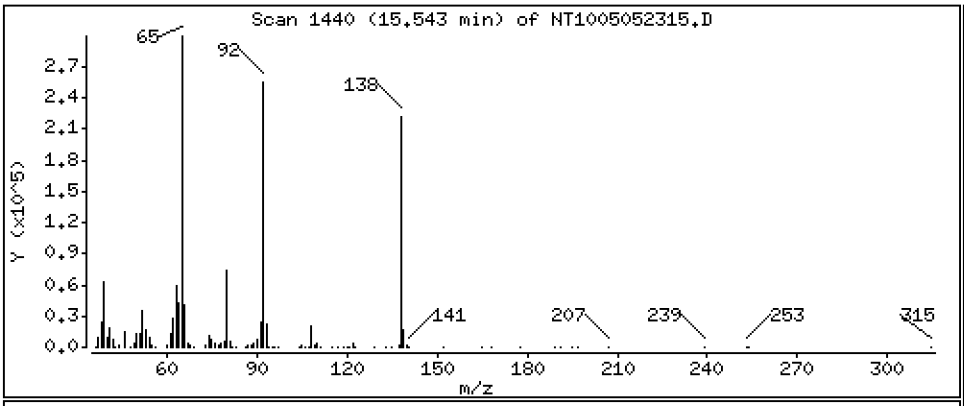
Operator: VTS

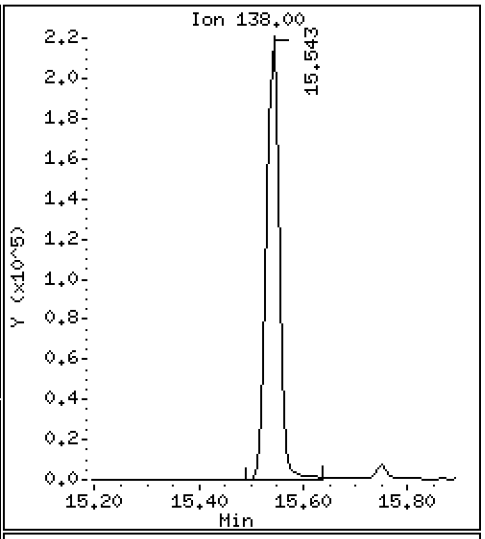
Column phase: ZB-5msi

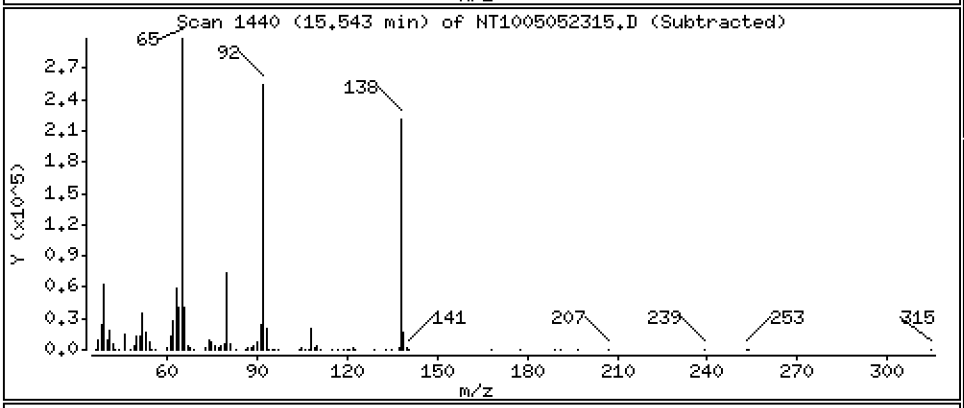
Column diameter: 0.25

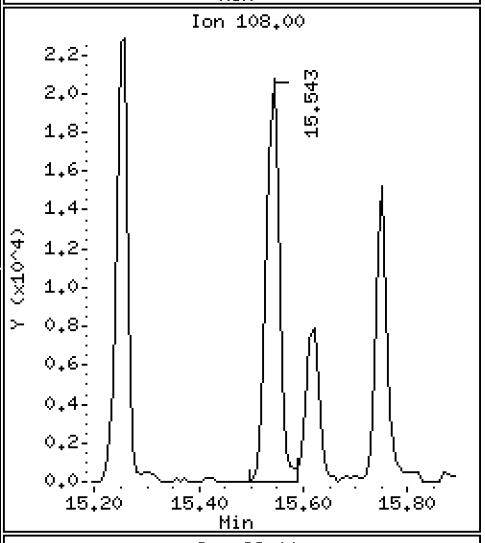
43 3-Nitroaniline

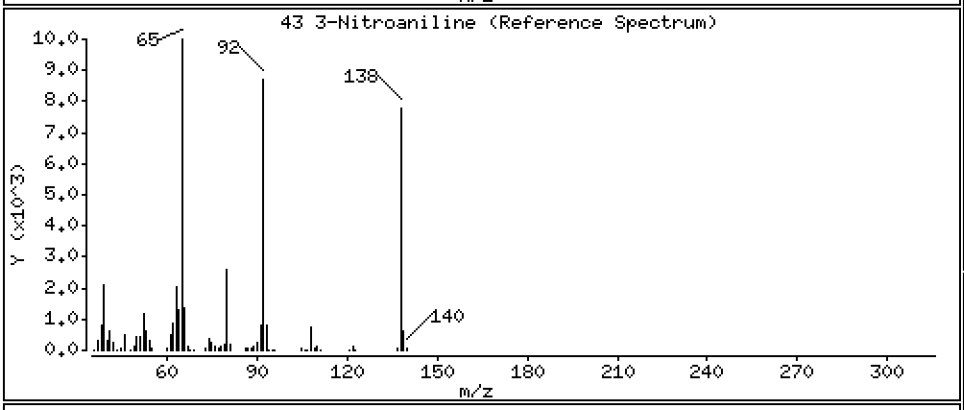
Concentration: 10.57 ug/mL

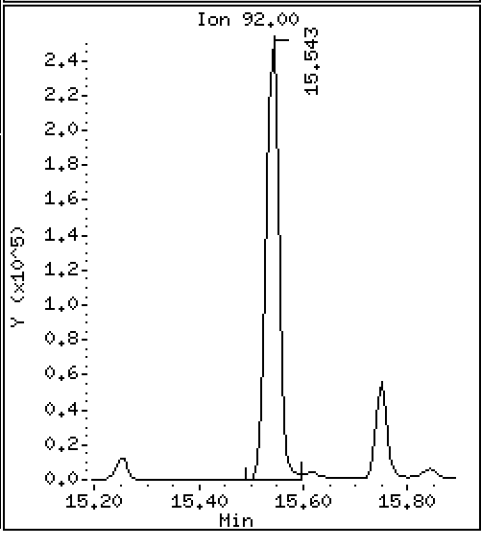


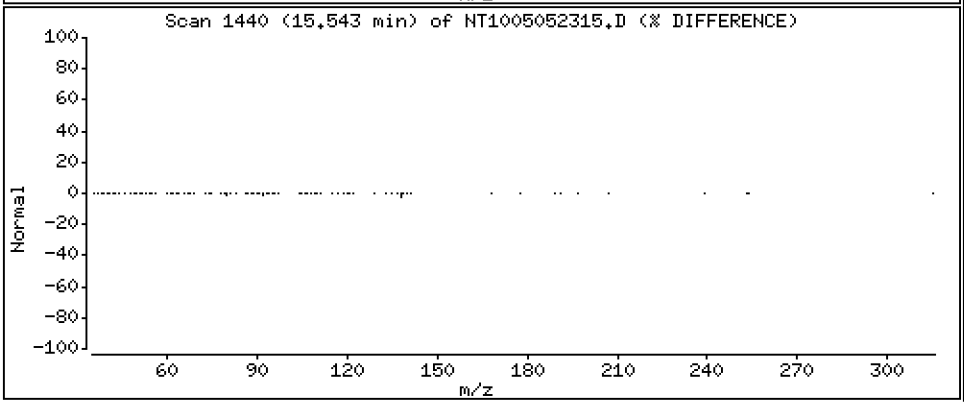












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

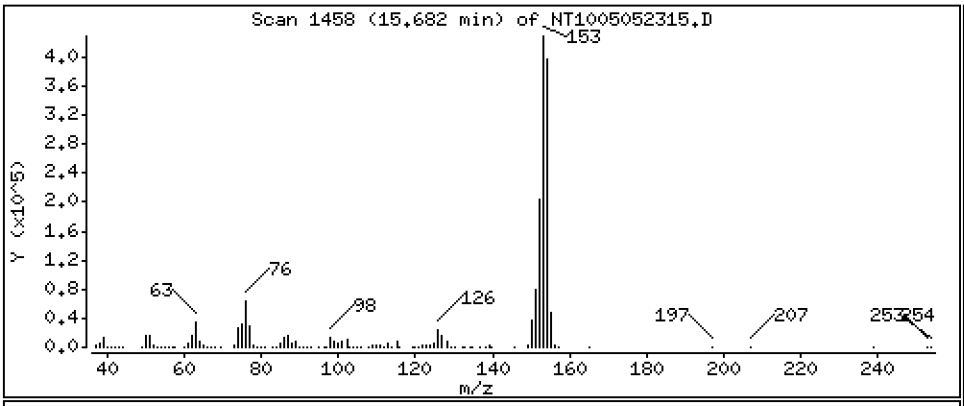
Operator: VTS

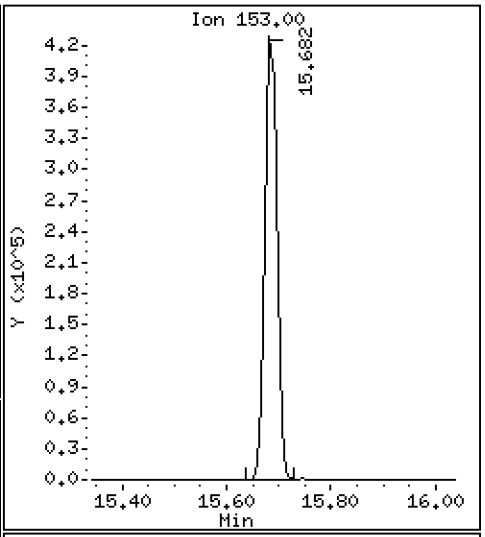
Column phase: ZB-5msi

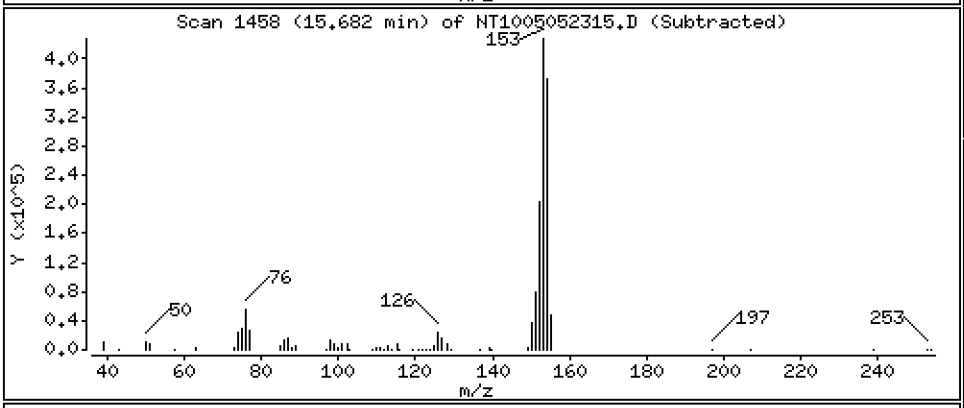
Column diameter: 0.25

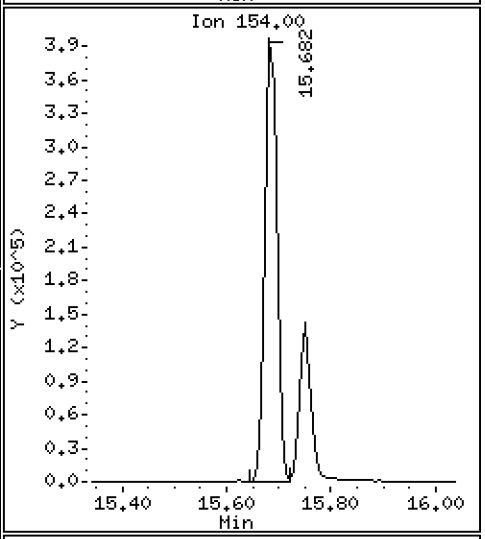
44 Acenaphthene

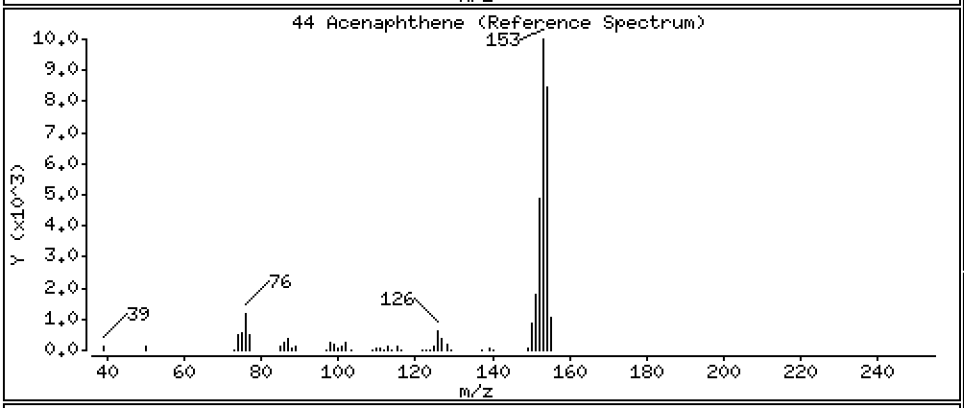
Concentration: 4.799 ug/mL

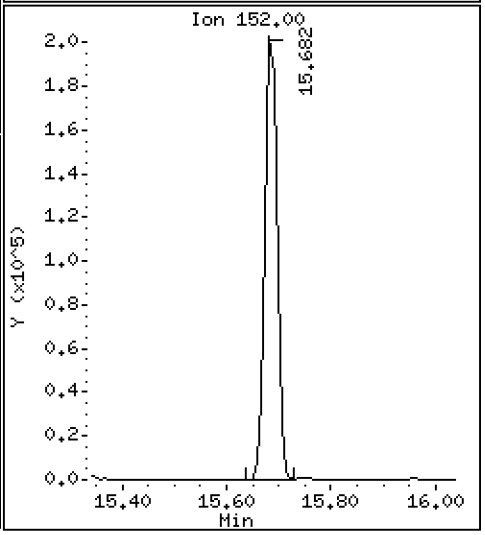


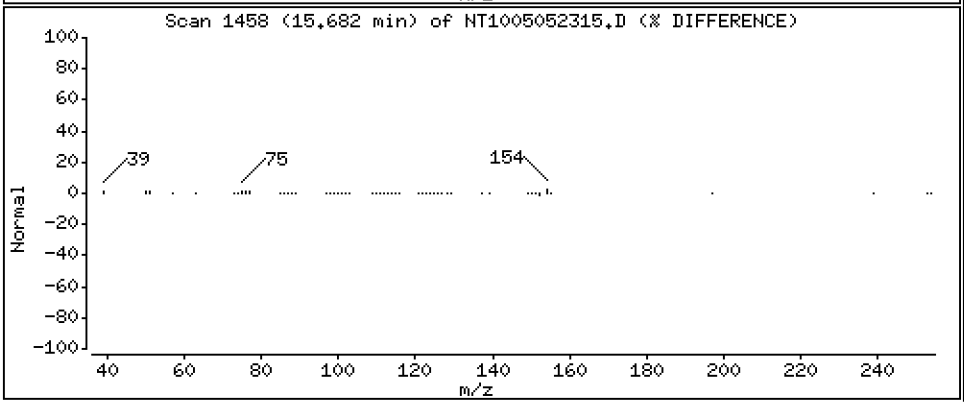












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

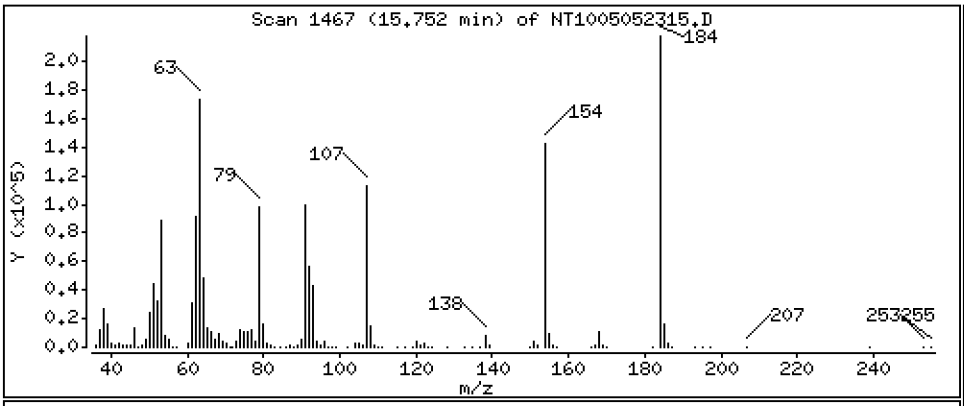
Operator: VTS

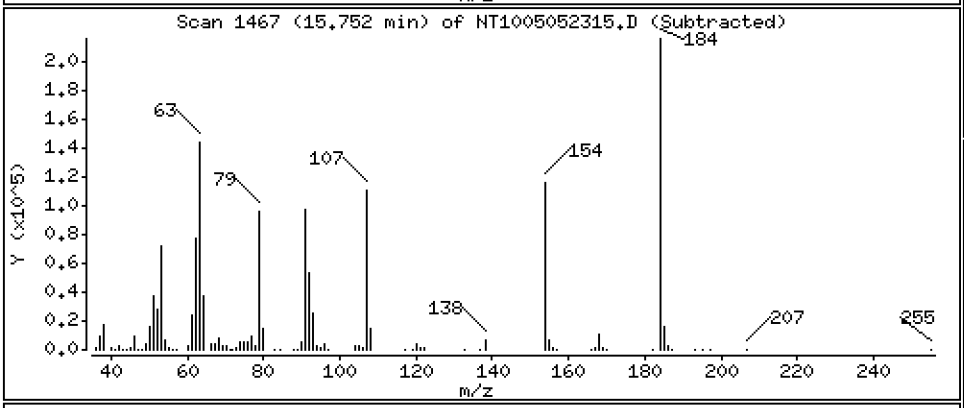
Column phase: ZB-5msi

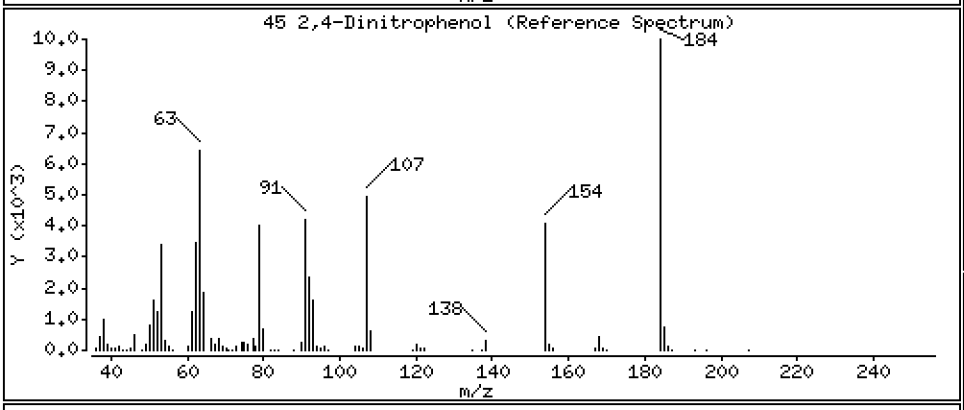
Column diameter: 0.25

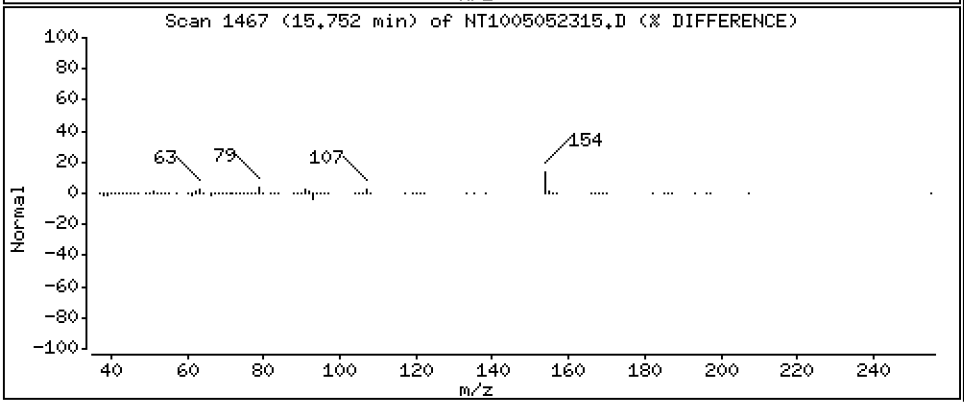
45 2,4-Dinitrophenol

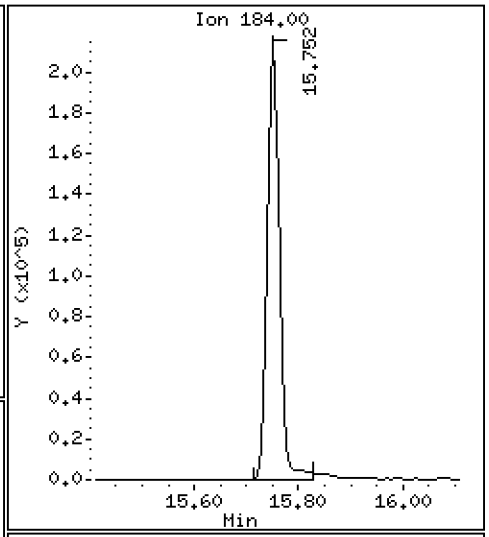
Concentration: 12.09 ug/mL

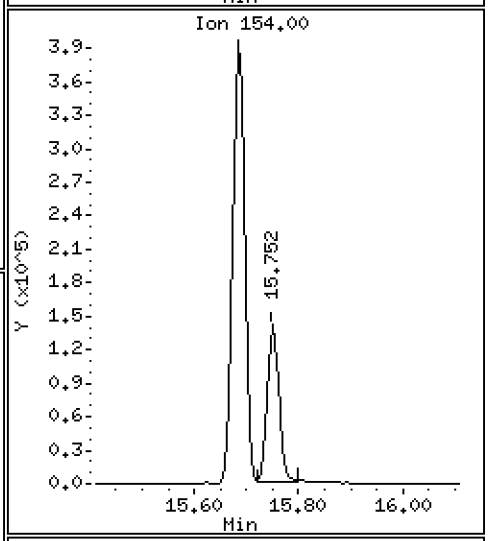


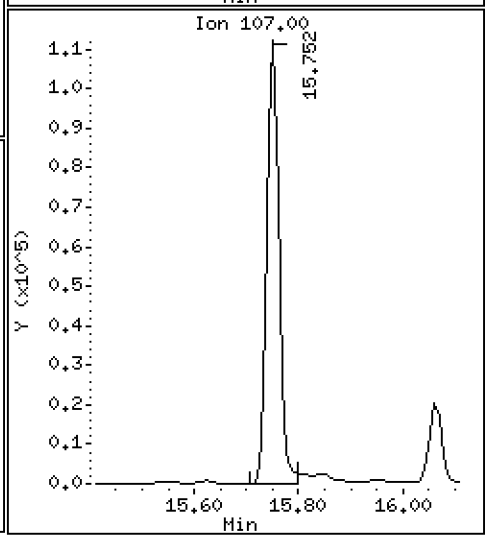












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

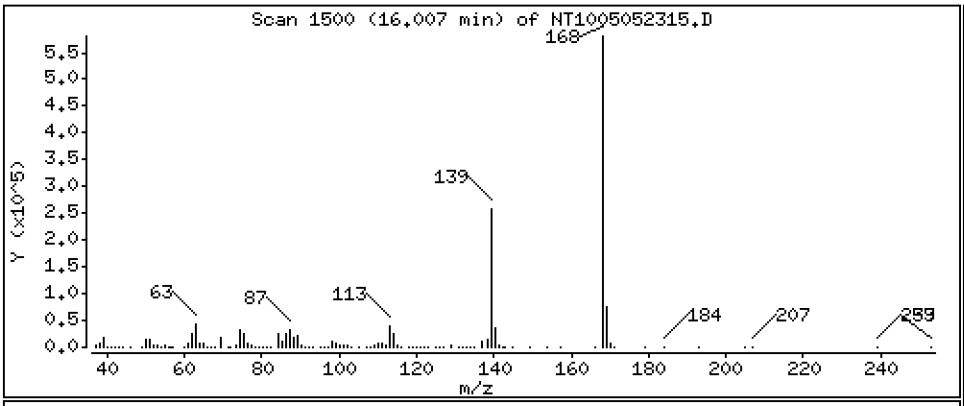
Operator: VTS

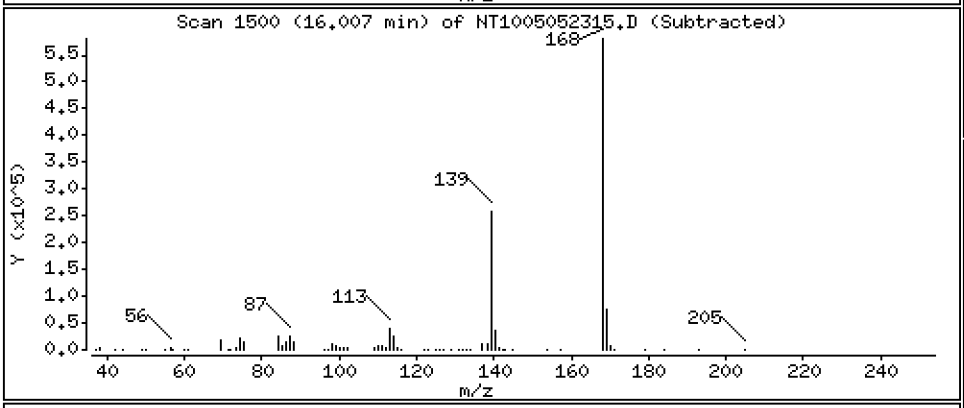
Column phase: ZB-5msi

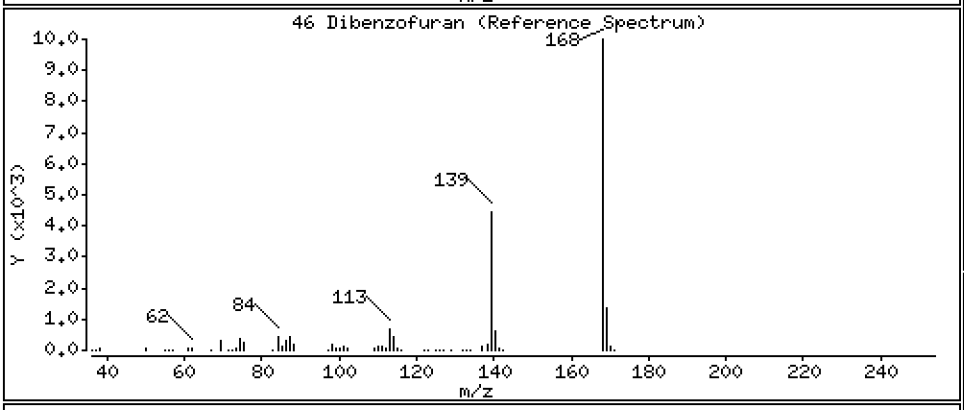
Column diameter: 0.25

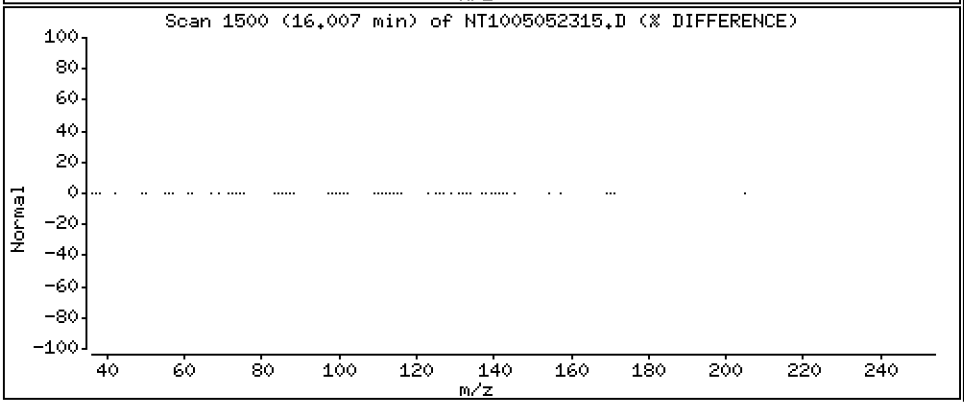
46 Dibenzofuran

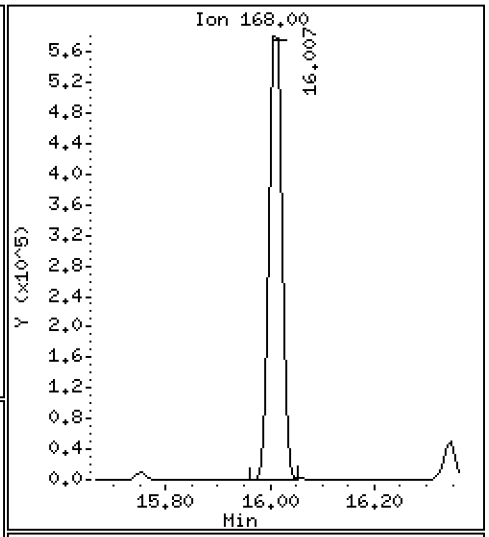
Concentration: 4.807 ug/mL

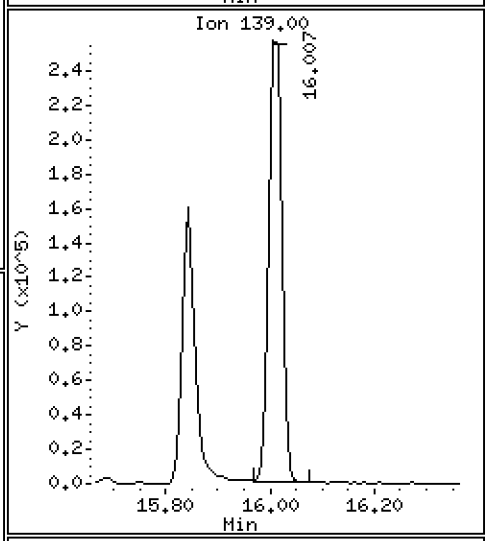


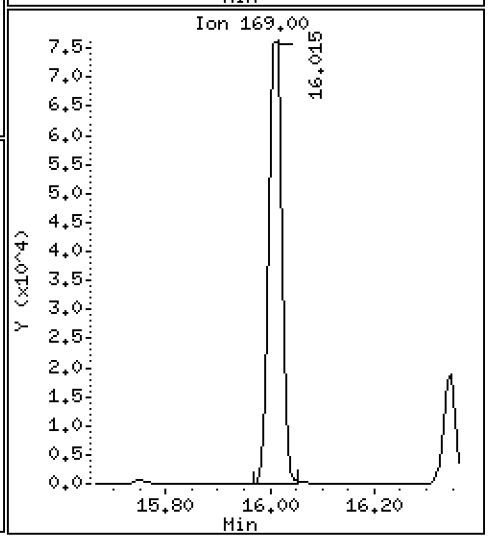












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

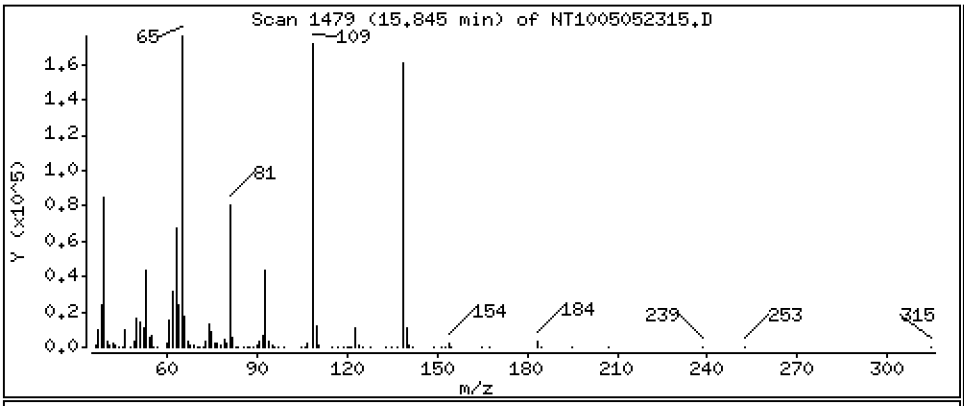
Operator: VTS

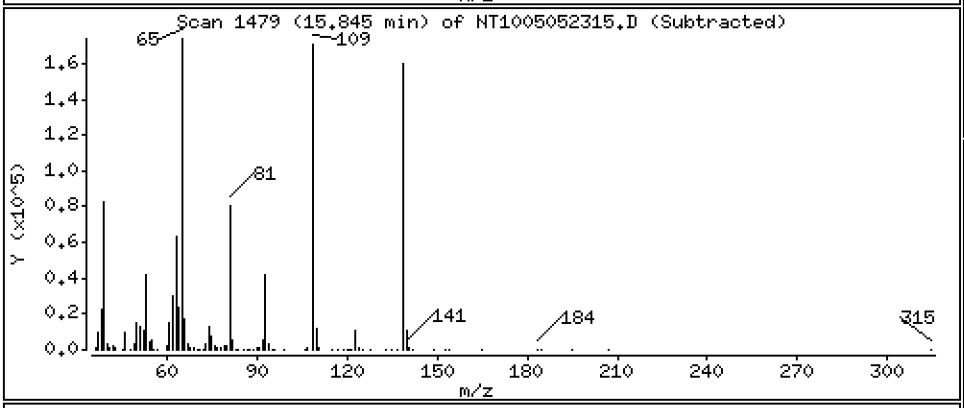
Column phase: ZB-5msi

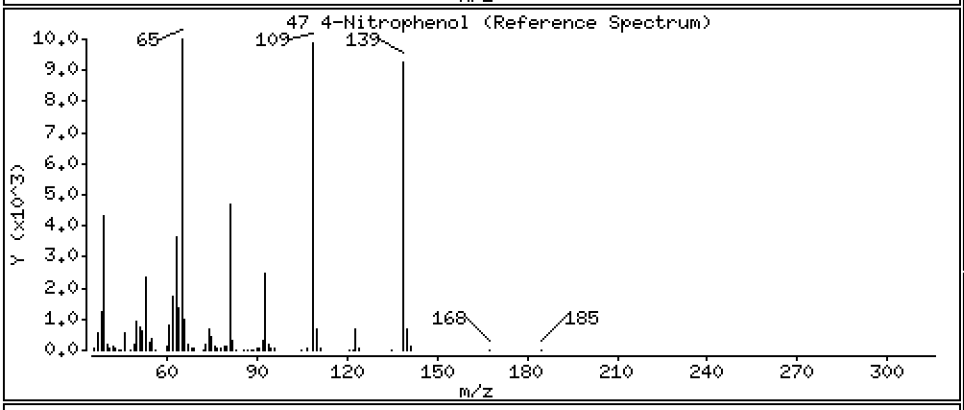
Column diameter: 0.25

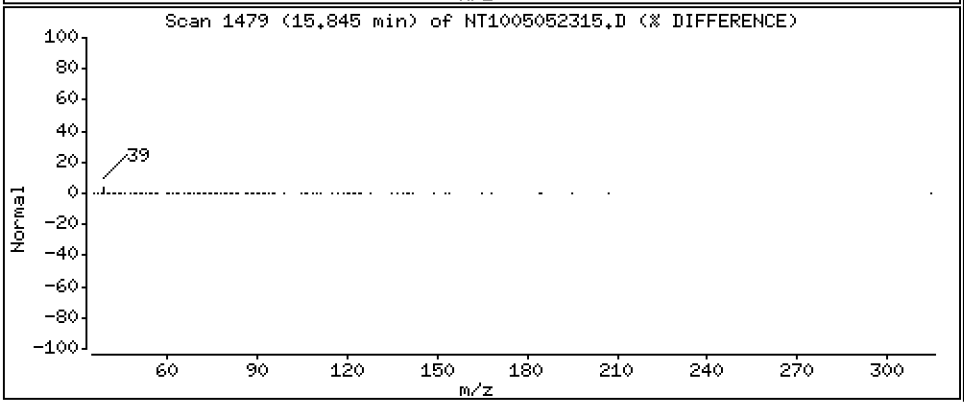
47 4-Nitrophenol

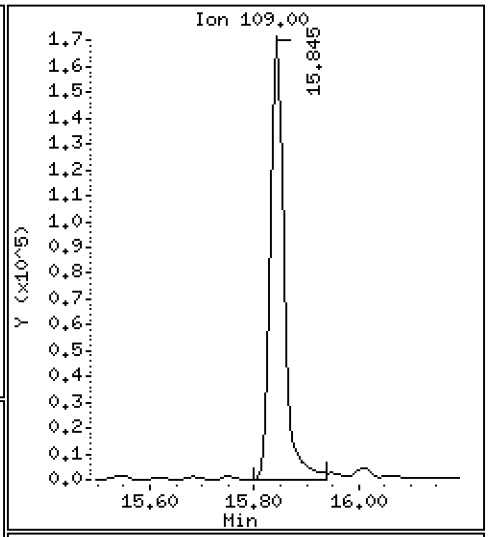
Concentration: 9.382 ug/mL

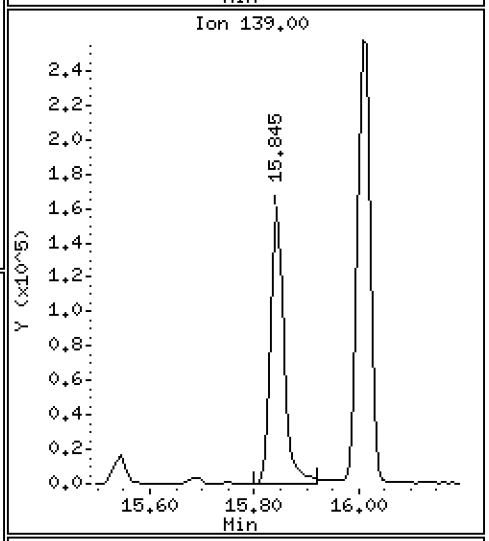


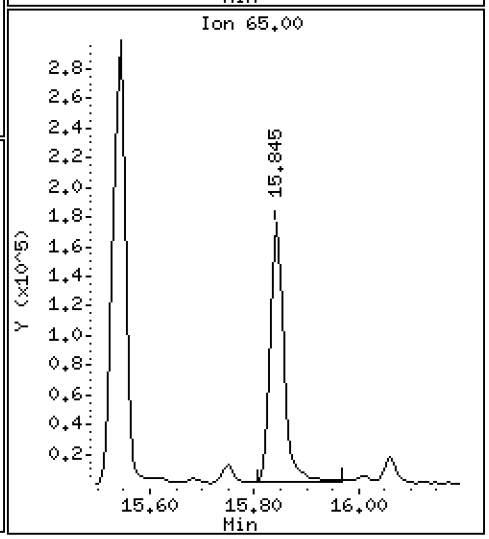












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

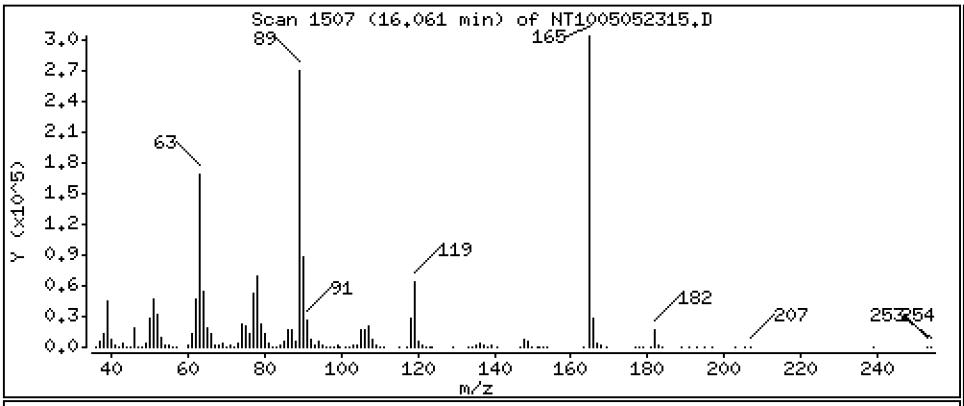
Operator: VTS

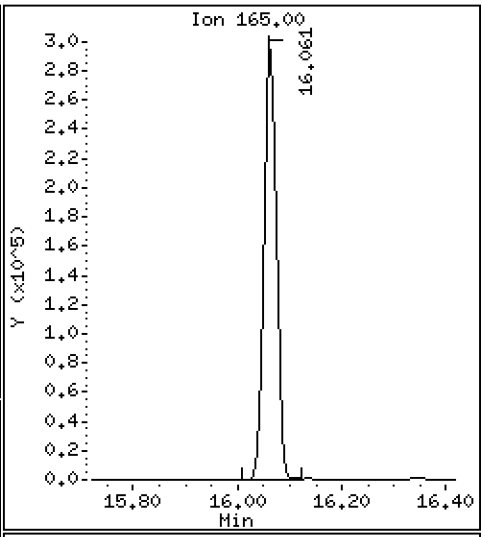
Column phase: ZB-5msi

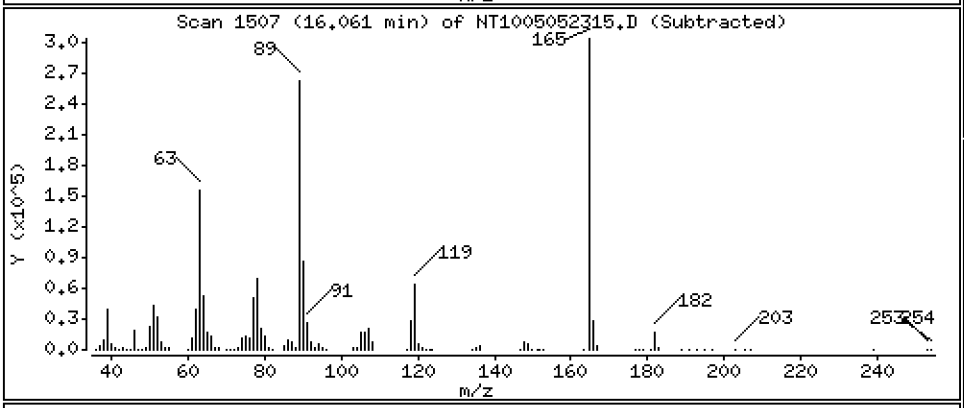
Column diameter: 0.25

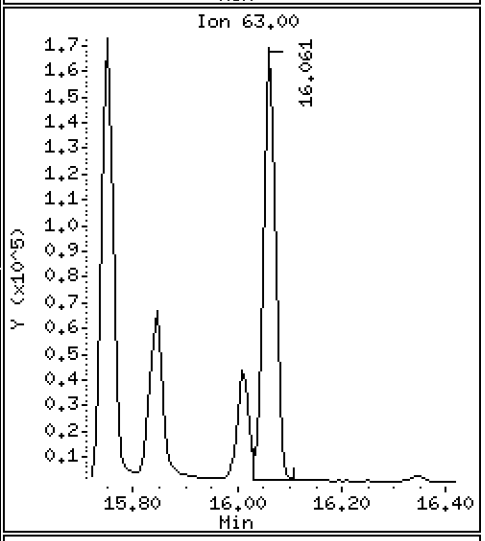
48 2,4-Dinitrotoluene

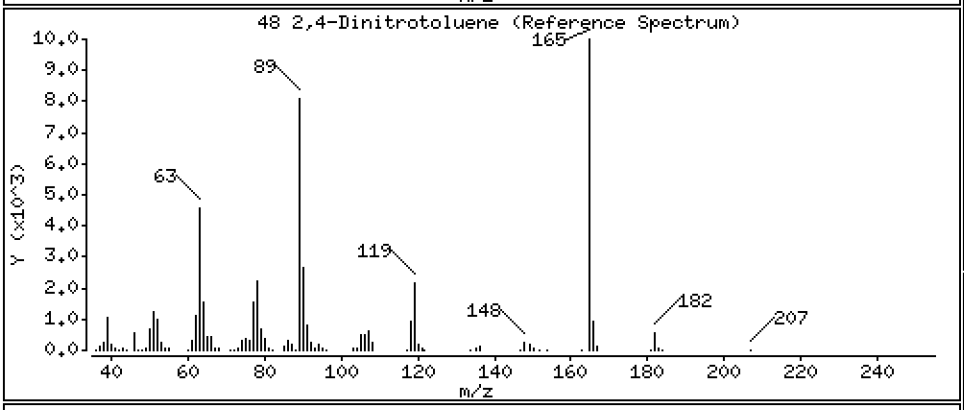
Concentration: 9.555 ug/mL

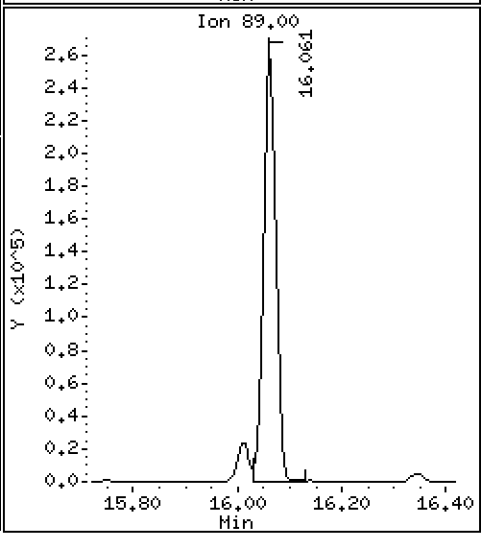


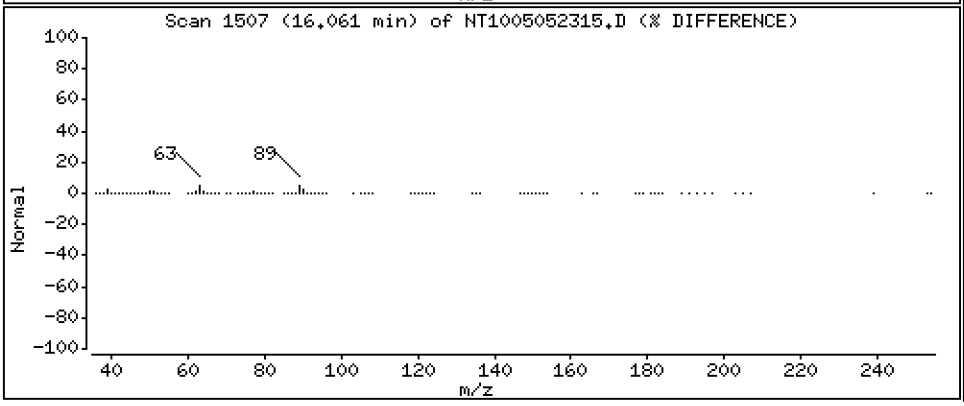












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

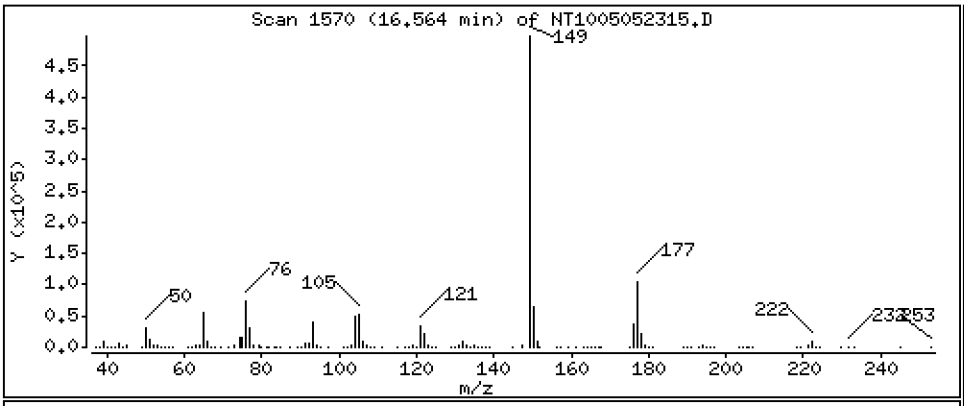
Operator: VTS

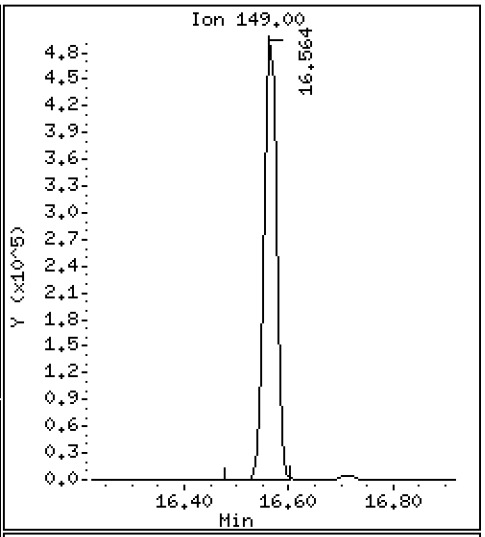
Column phase: ZB-5msi

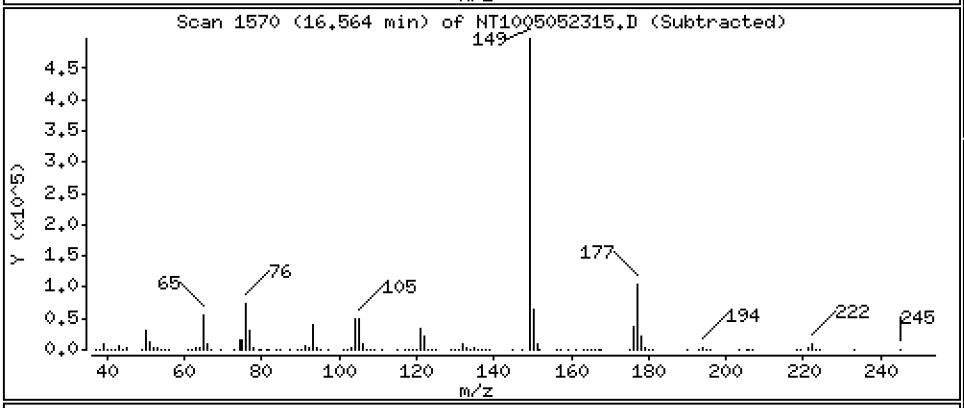
Column diameter: 0.25

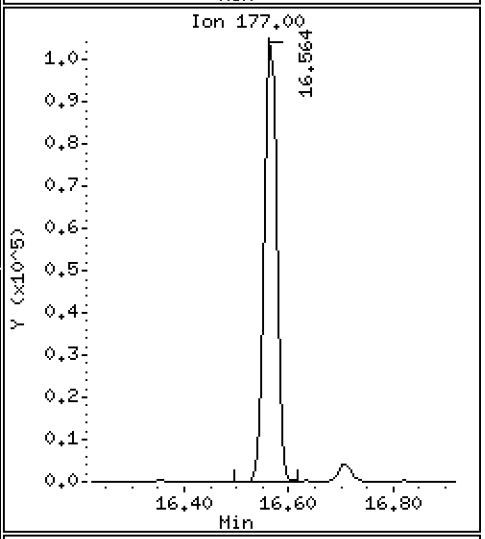
50 Diethylphthalate

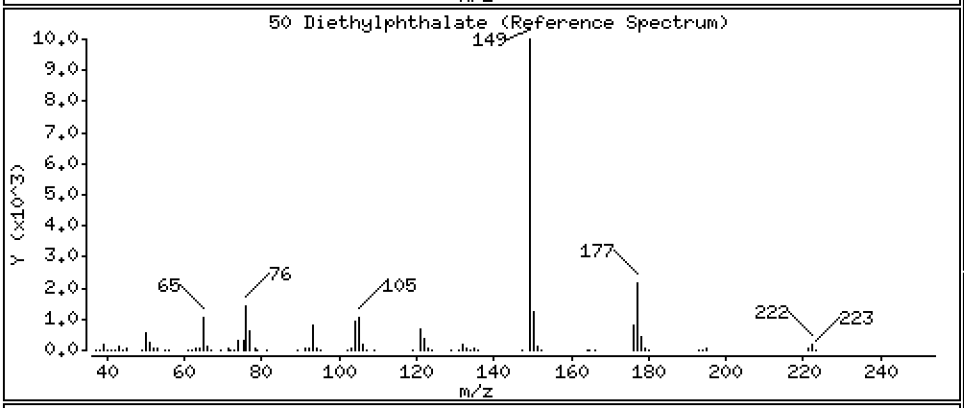
Concentration: 5.576 ug/mL

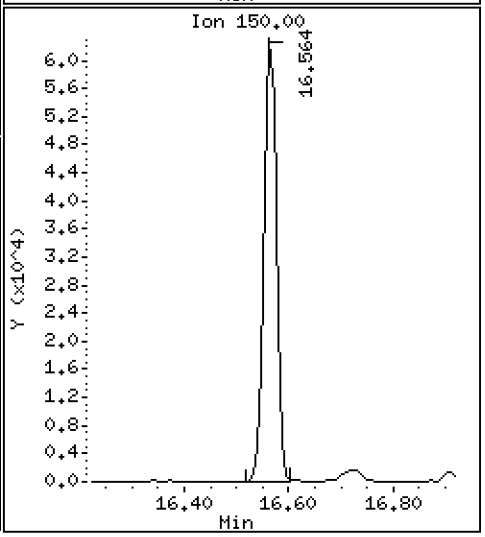


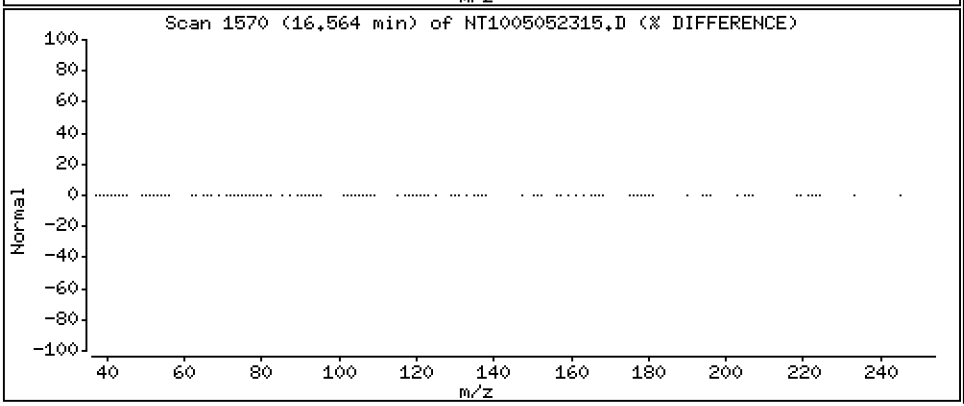












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

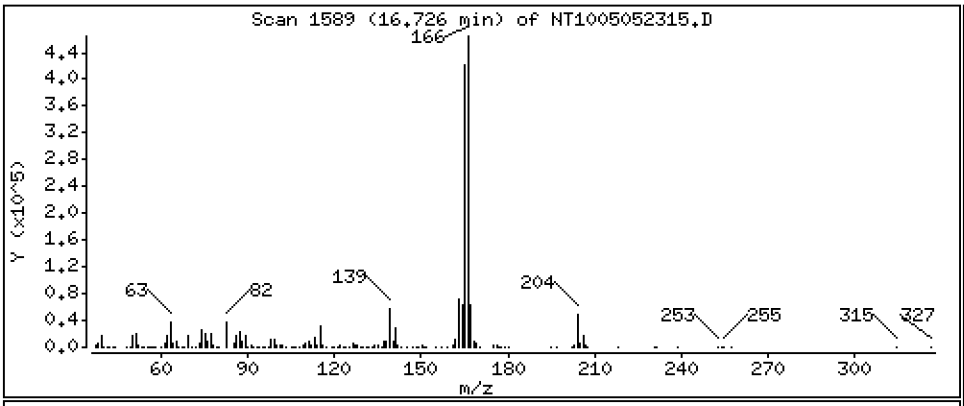
Operator: VTS

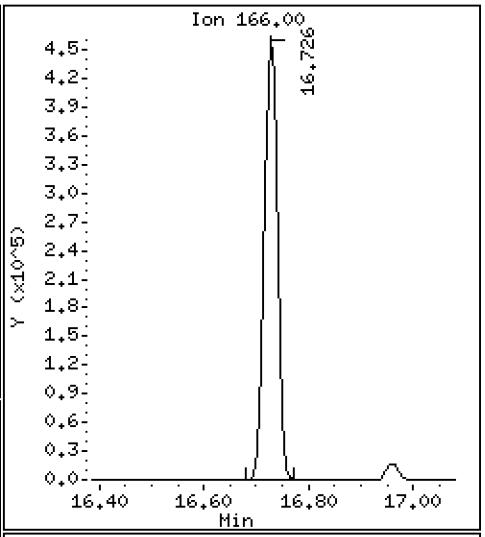
Column phase: ZB-5msi

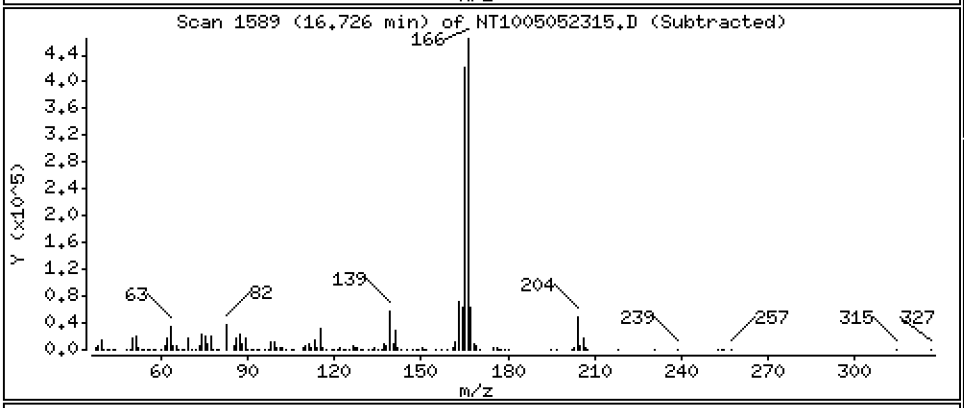
Column diameter: 0.25

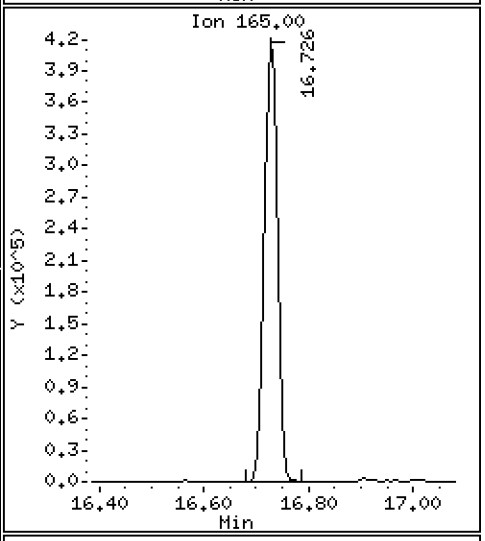
49 Fluorene

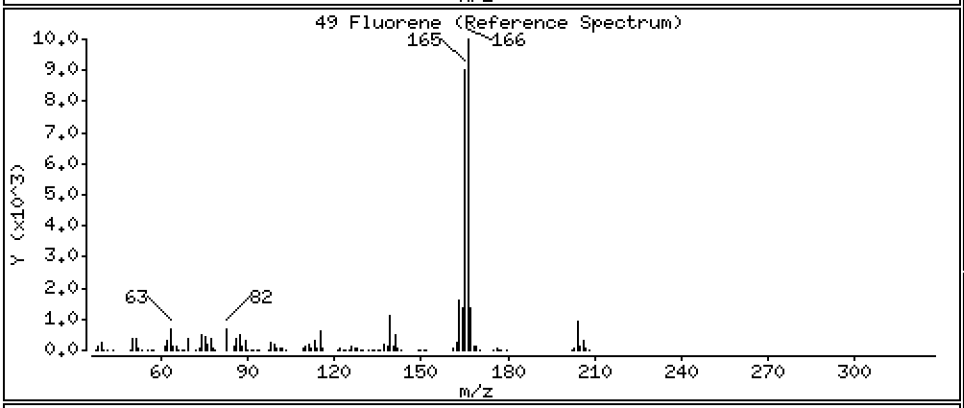
Concentration: 4.724 ug/mL

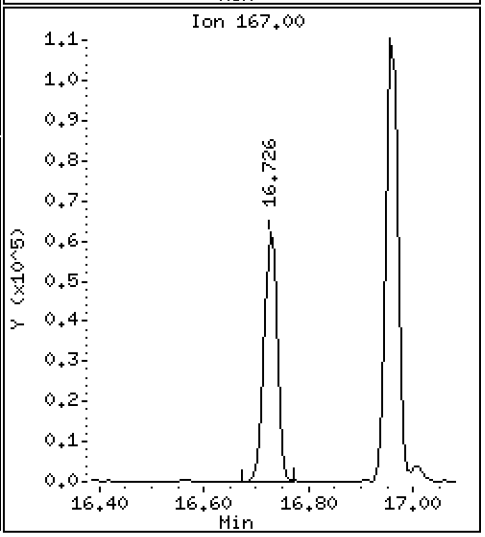


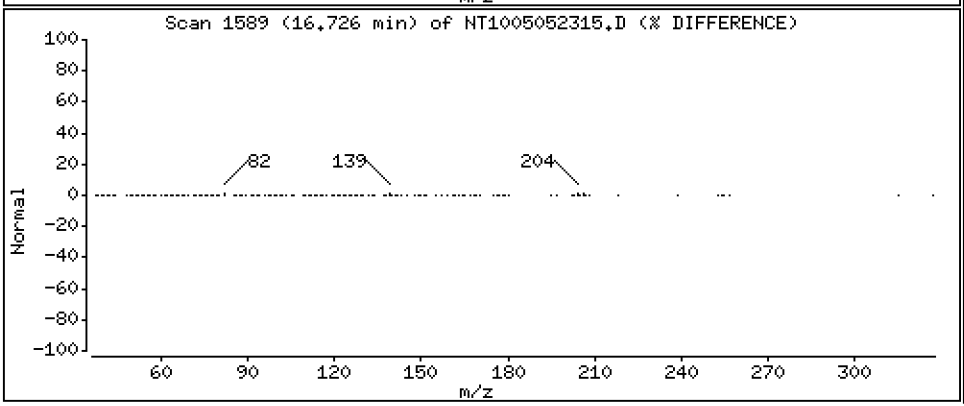












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

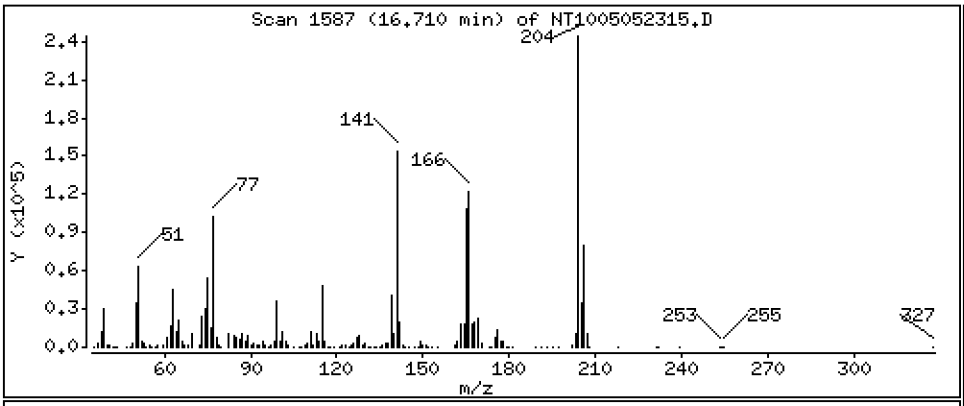
Operator: VTS

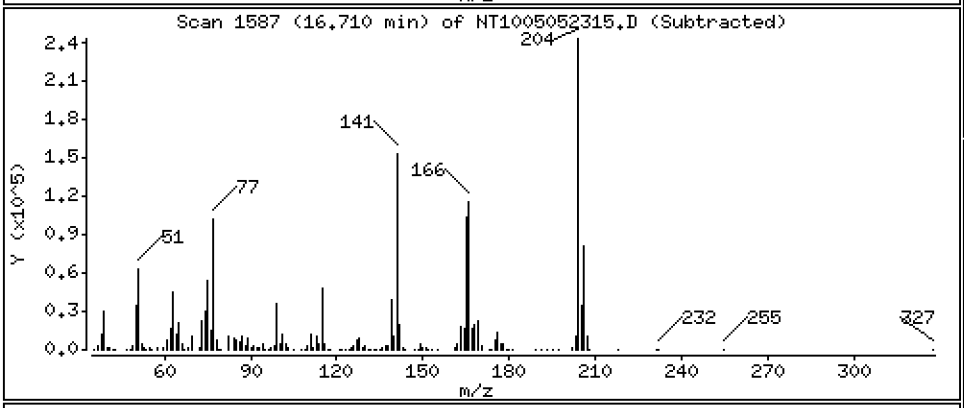
Column phase: ZB-5msi

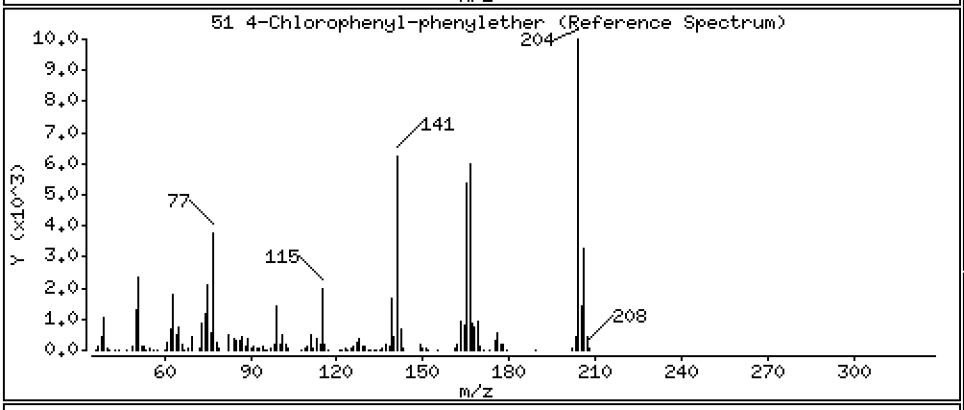
Column diameter: 0.25

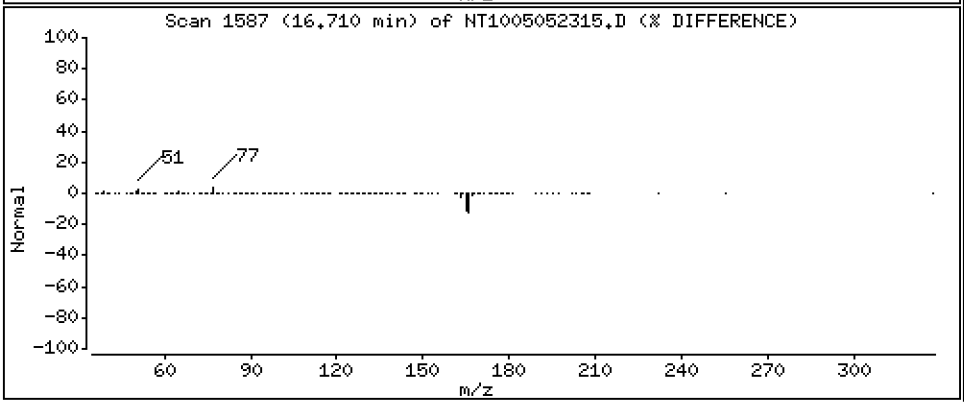
51 4-Chlorophenyl-phenylether

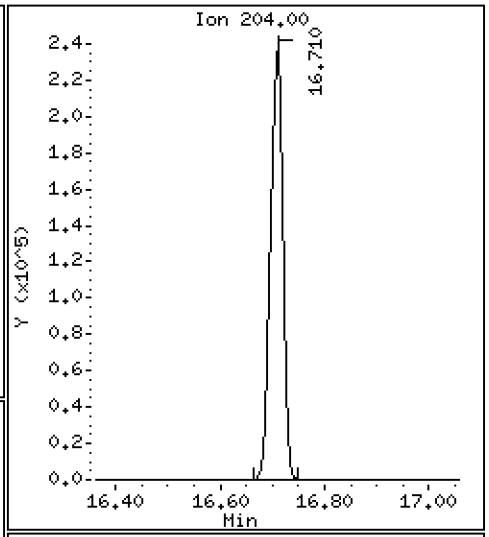
Concentration: 4.643 ug/mL

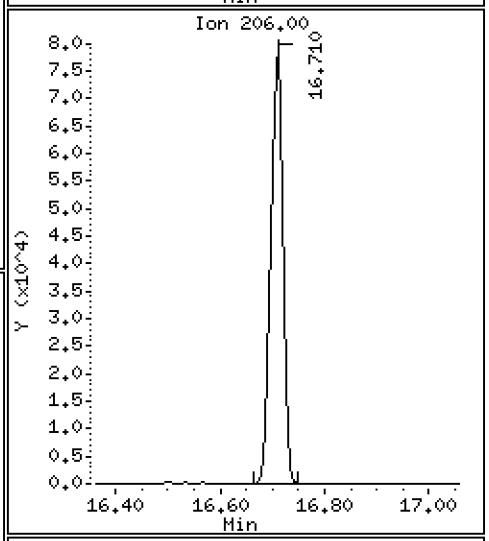


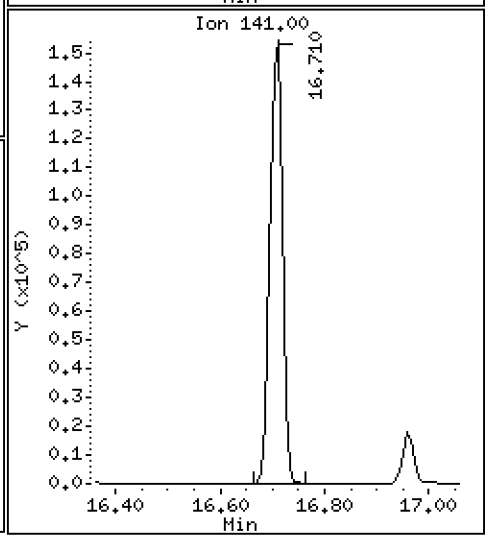












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

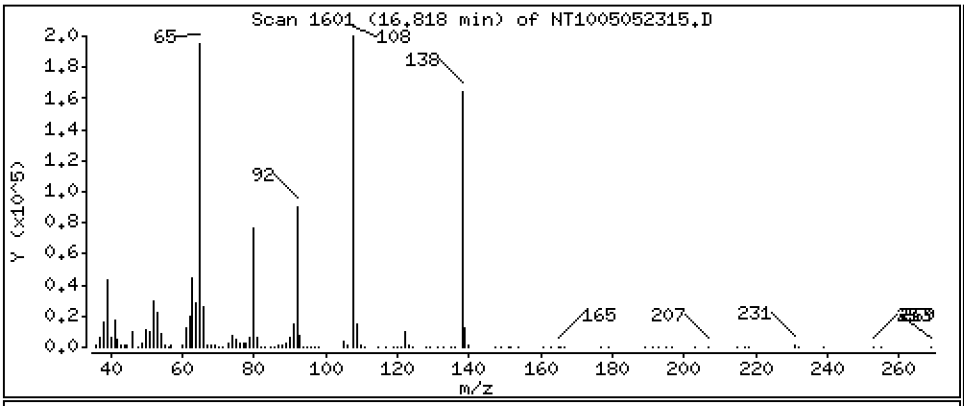
Operator: VTS

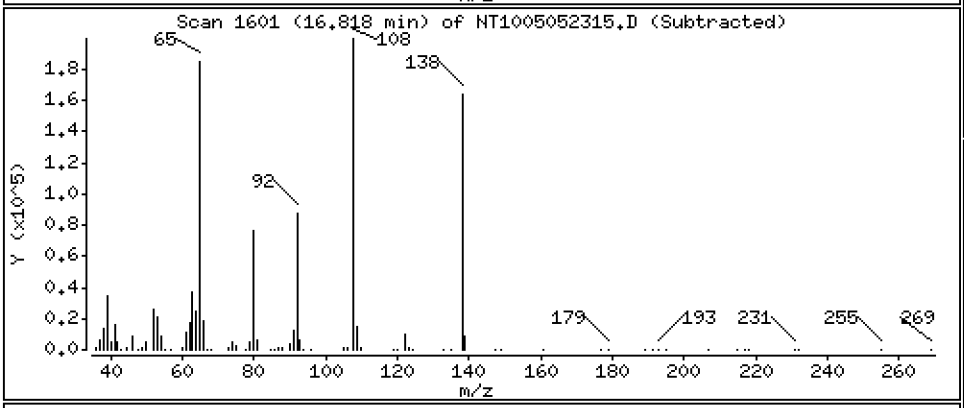
Column phase: ZB-5msi

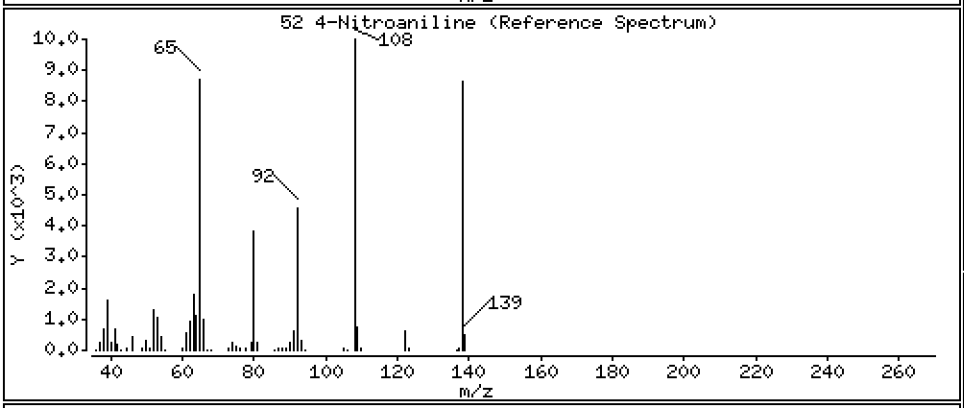
Column diameter: 0.25

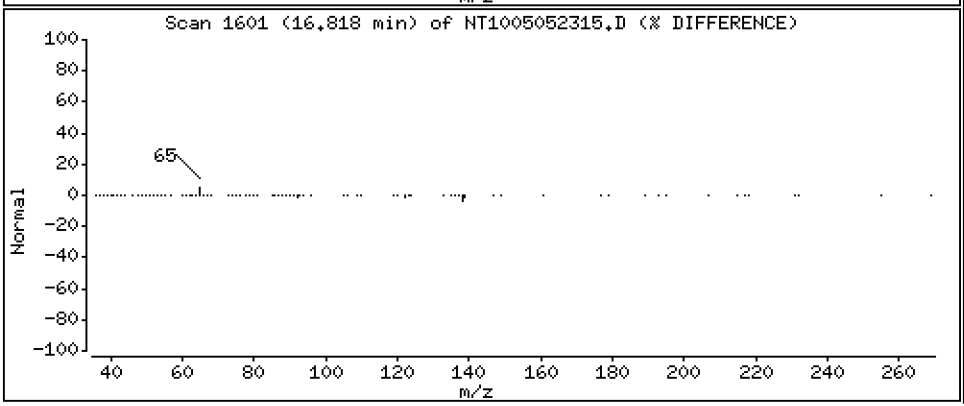
52 4-Nitroaniline

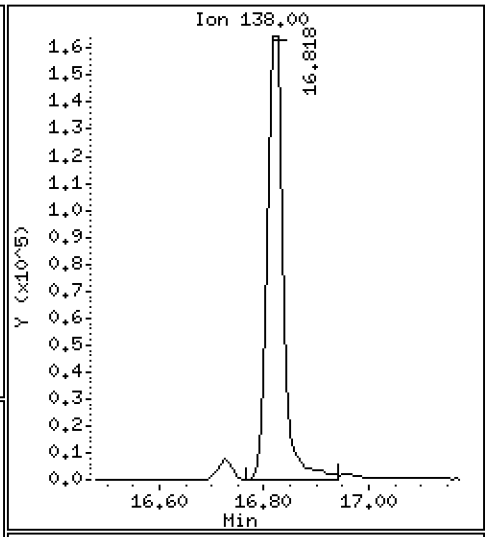
Concentration: 9.936 ug/mL

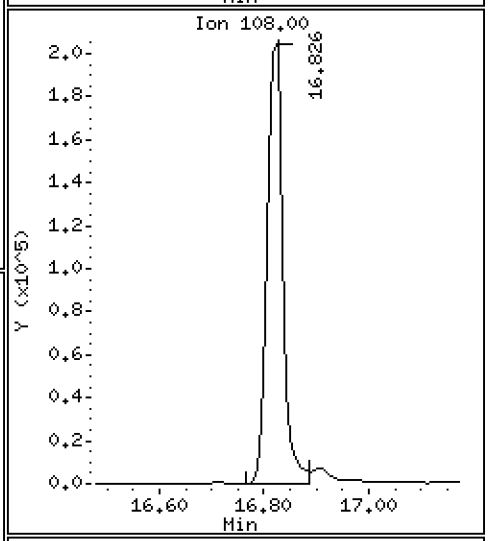


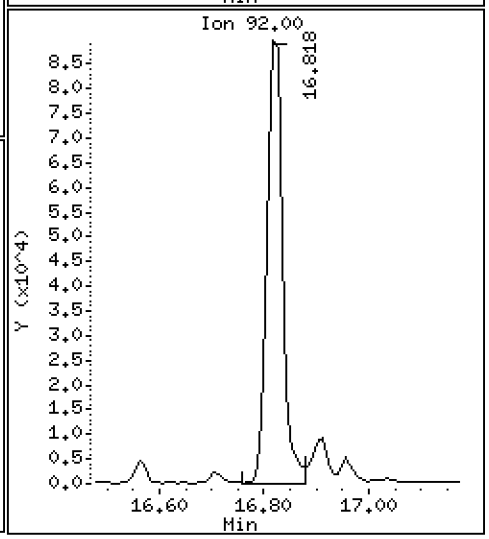












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

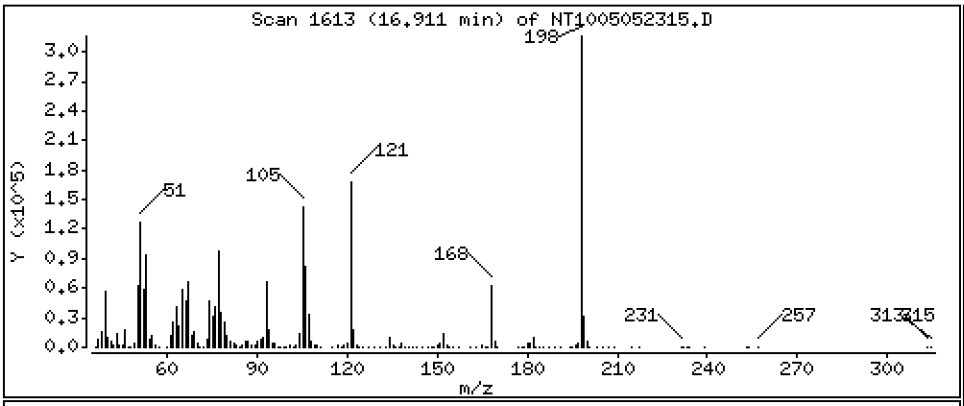
Operator: VTS

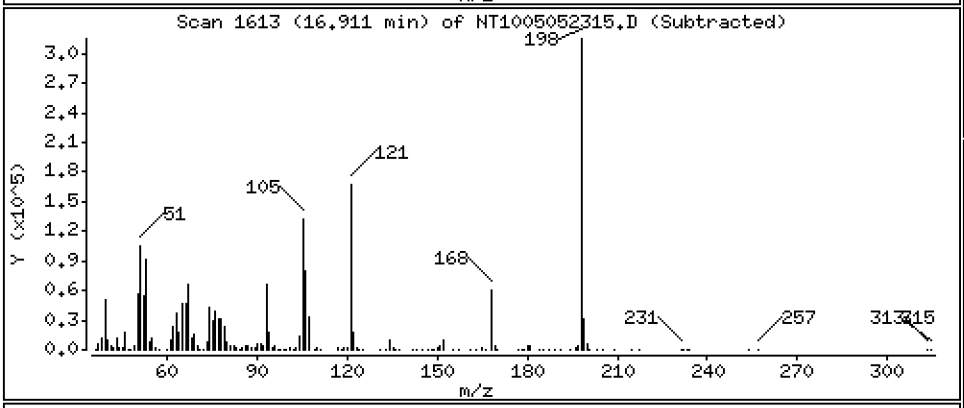
Column phase: ZB-5msi

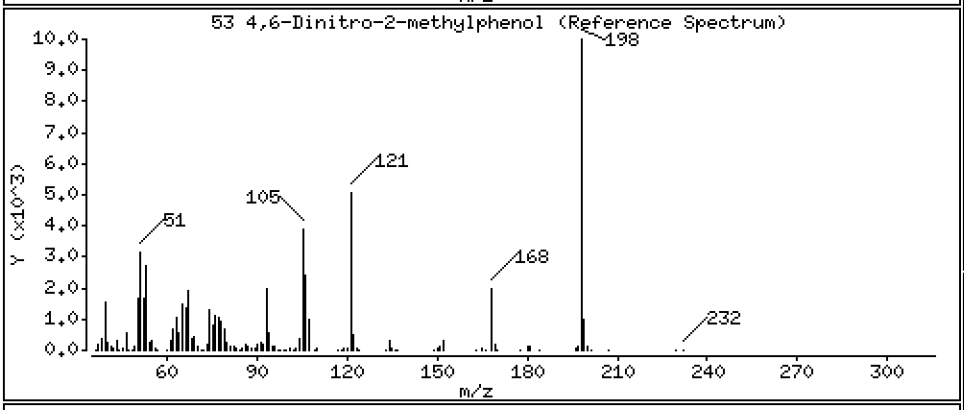
Column diameter: 0.25

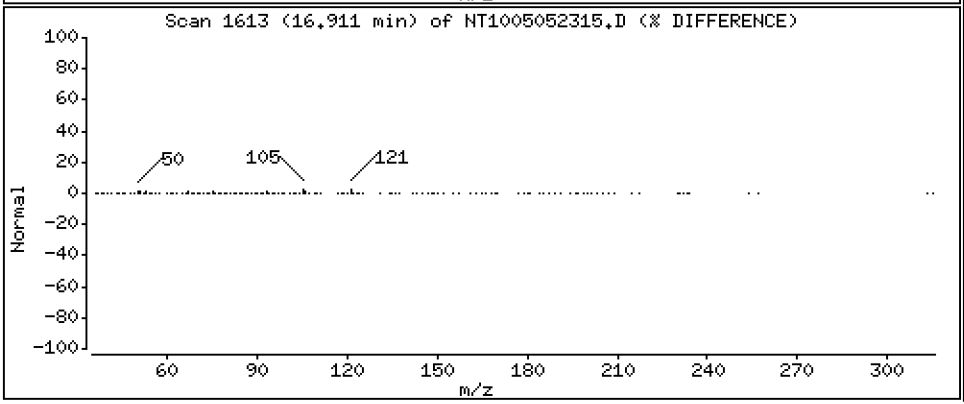
53 4,6-Dinitro-2-methylphenol

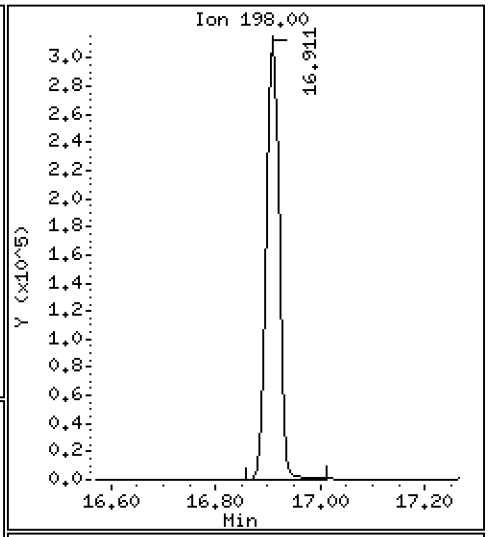
Concentration: 18.54 ug/mL

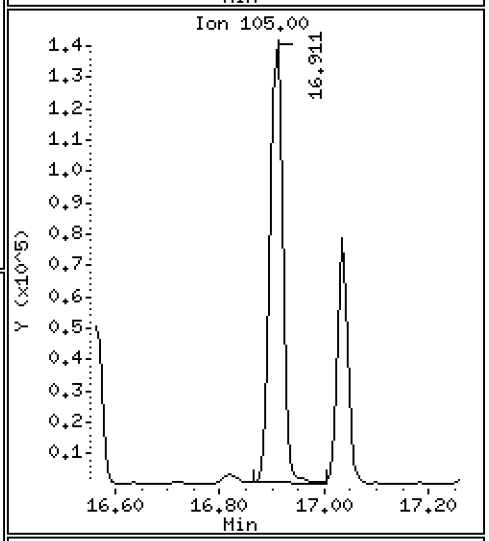


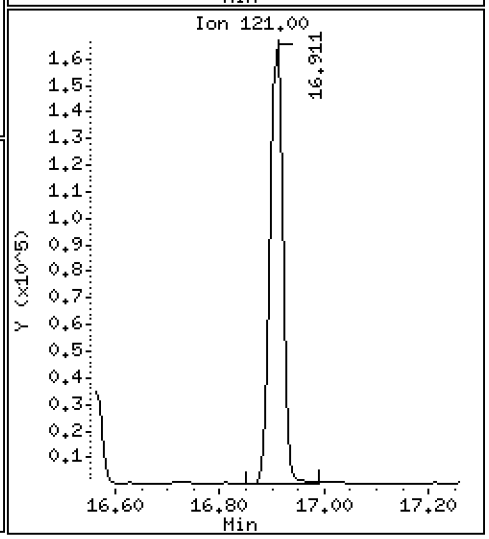












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

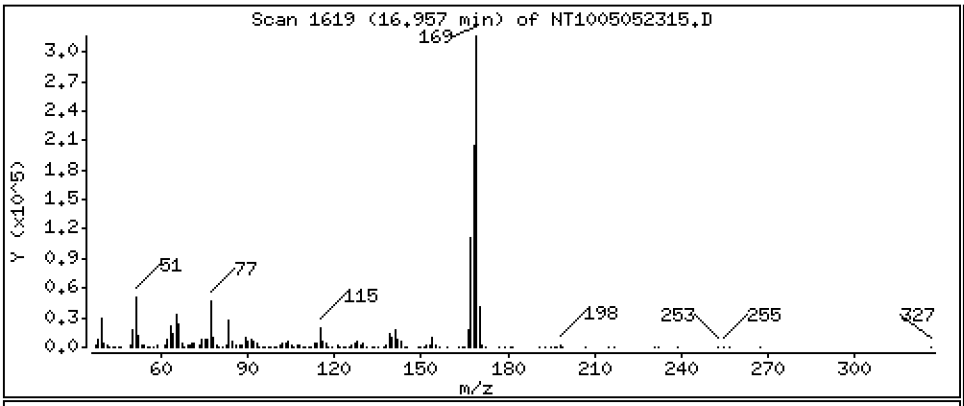
Operator: VTS

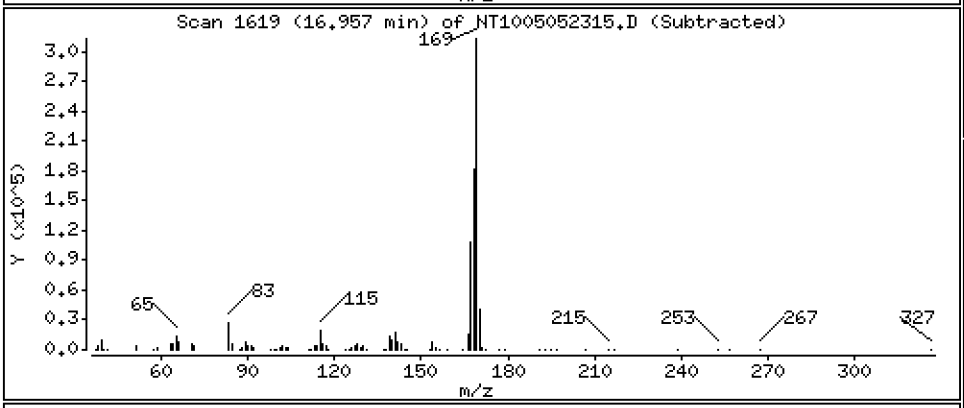
Column phase: ZB-5msi

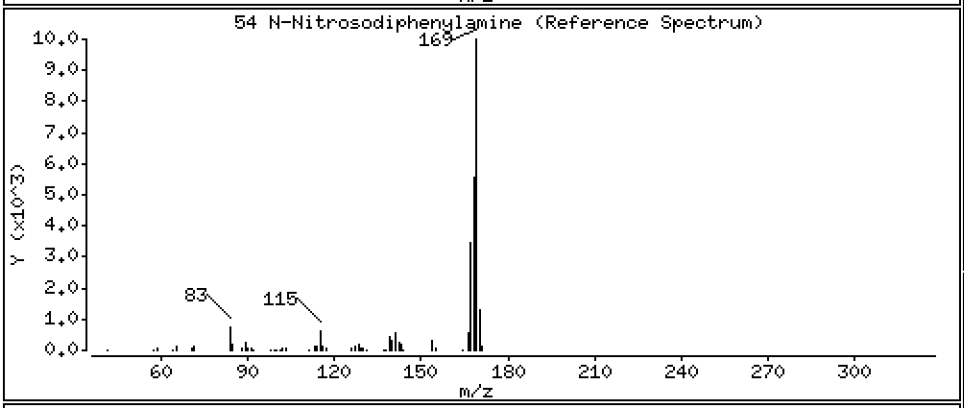
Column diameter: 0.25

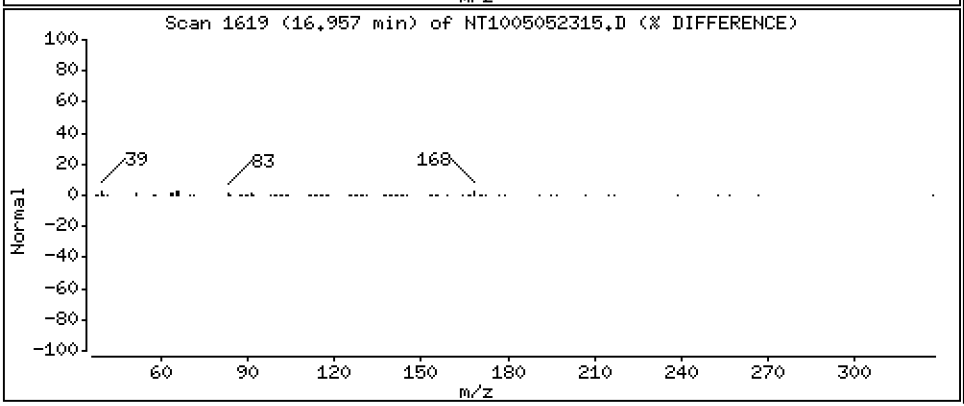
54 N-Nitrosodiphenylamine

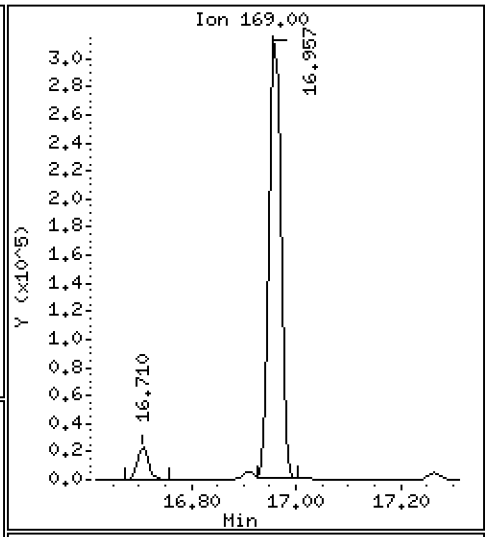
Concentration: 5.111 ug/mL

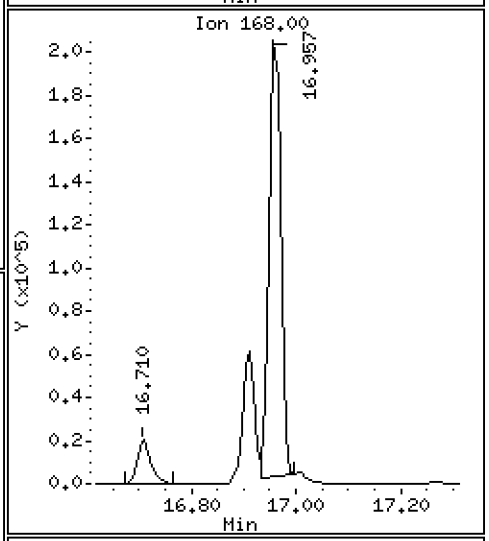


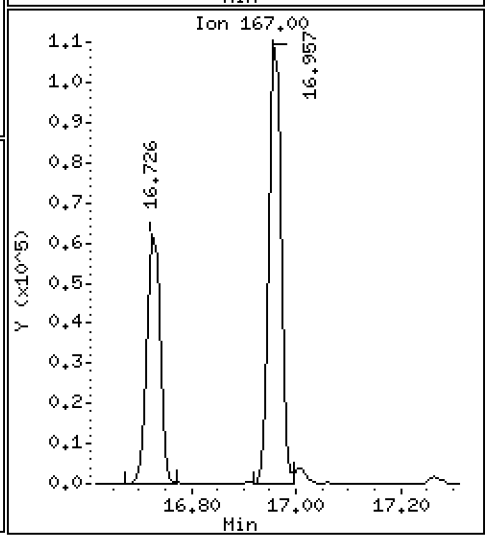












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

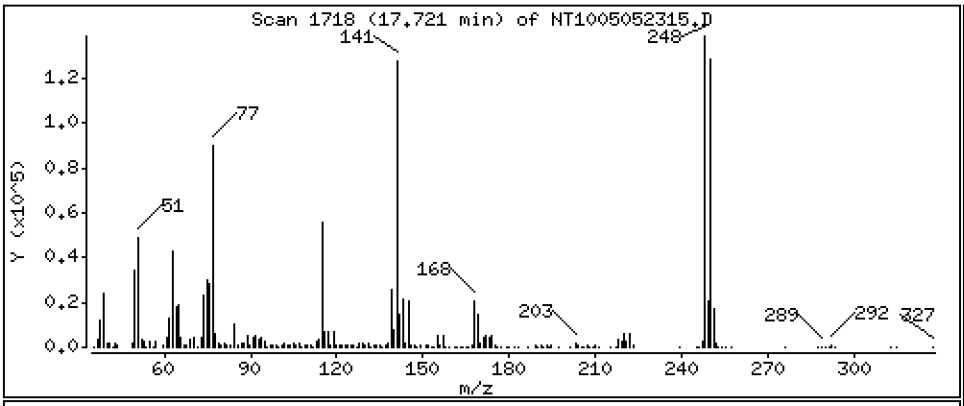
Operator: VTS

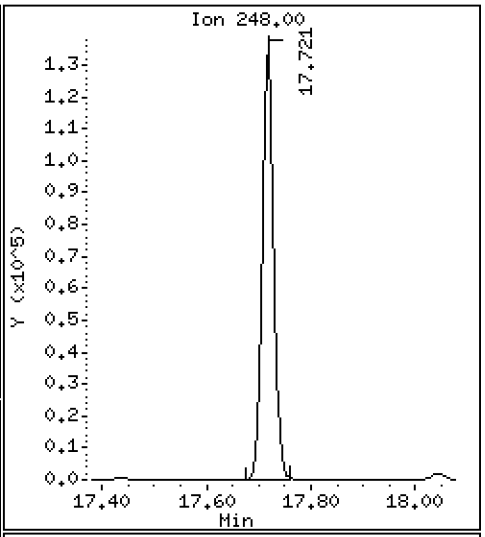
Column phase: ZB-5msi

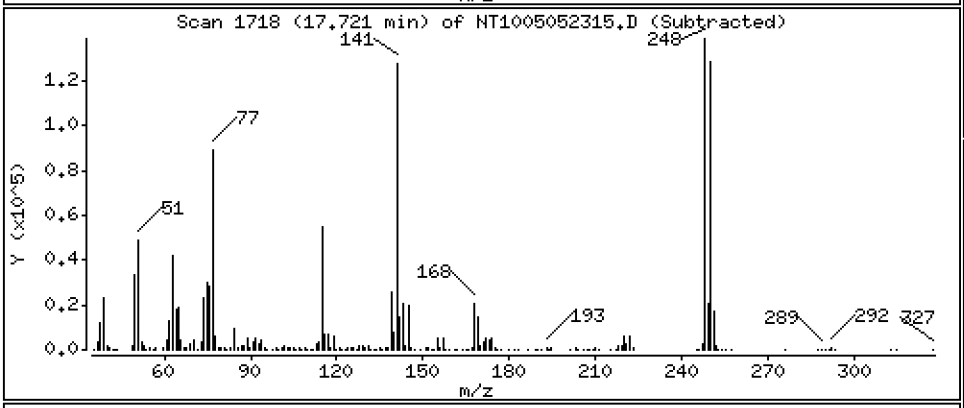
Column diameter: 0.25

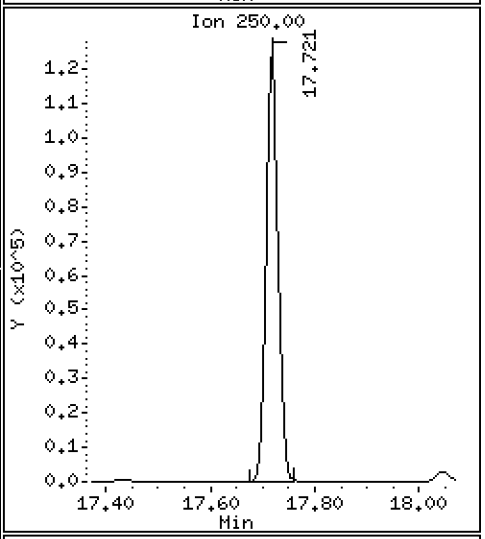
56 4-Bromophenyl-phenylether

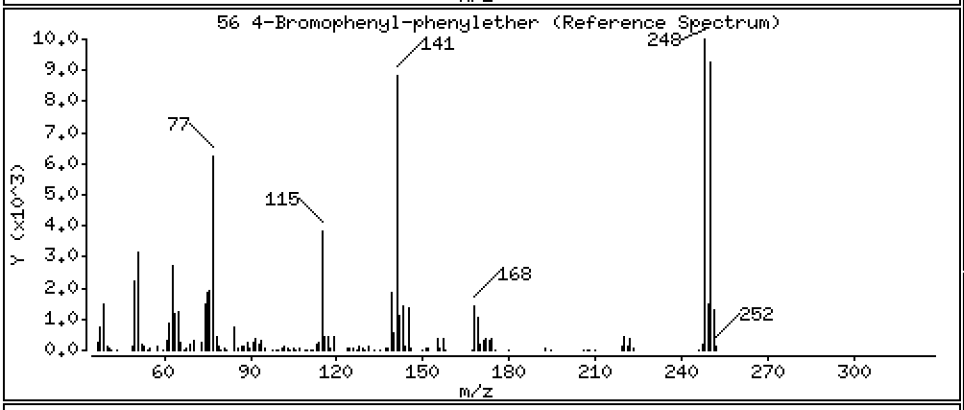
Concentration: 4.918 ug/mL

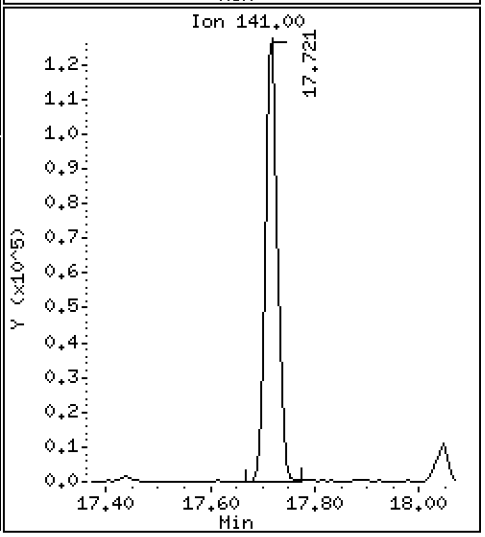


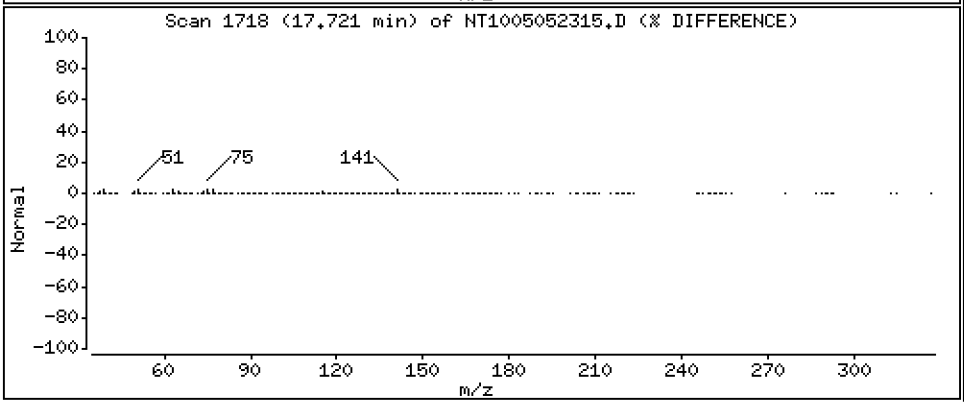












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

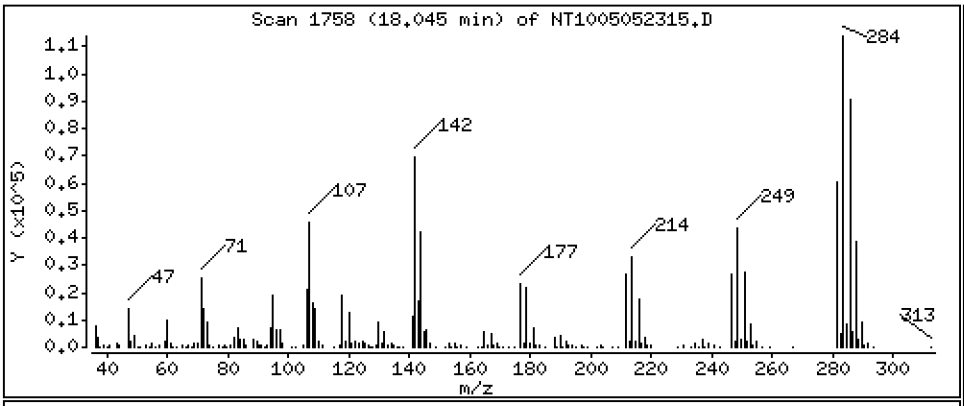
Operator: VTS

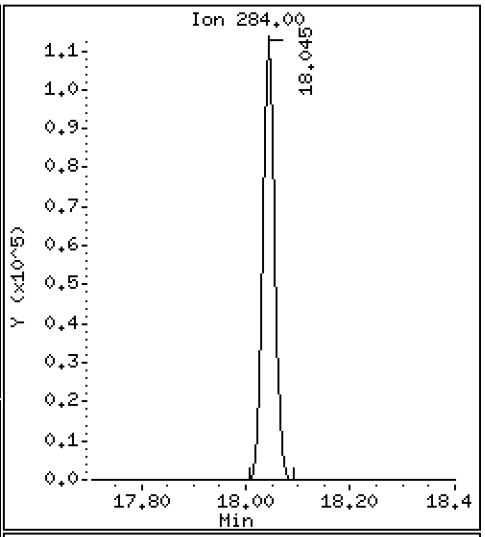
Column phase: ZB-5msi

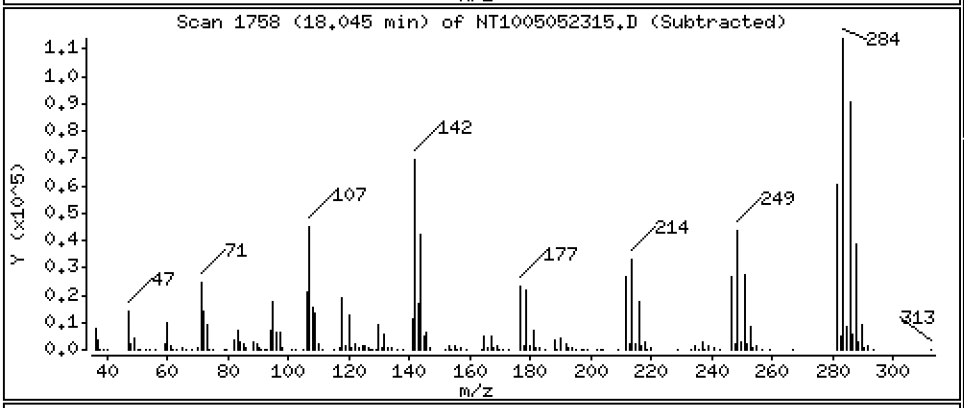
Column diameter: 0.25

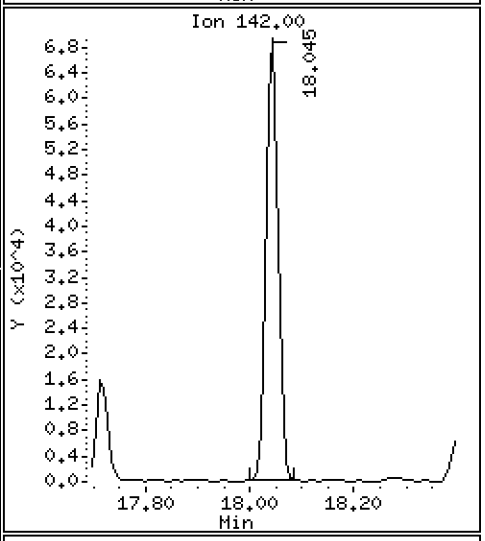
57 Hexachlorobenzene

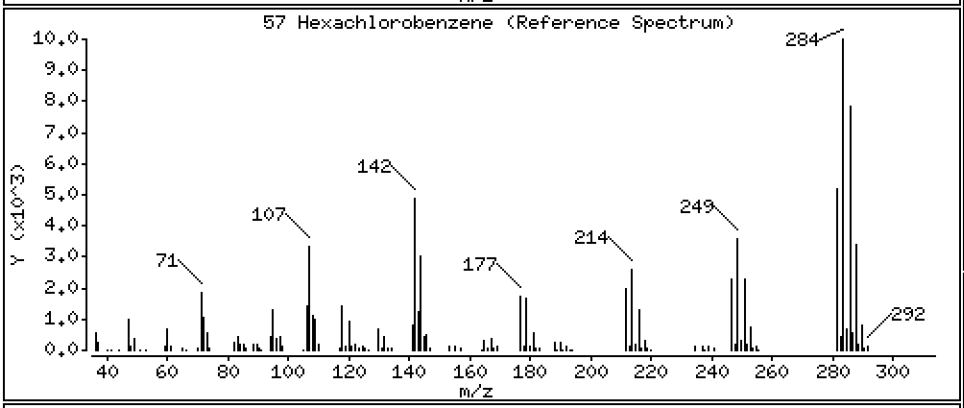
Concentration: 4.269 ug/mL

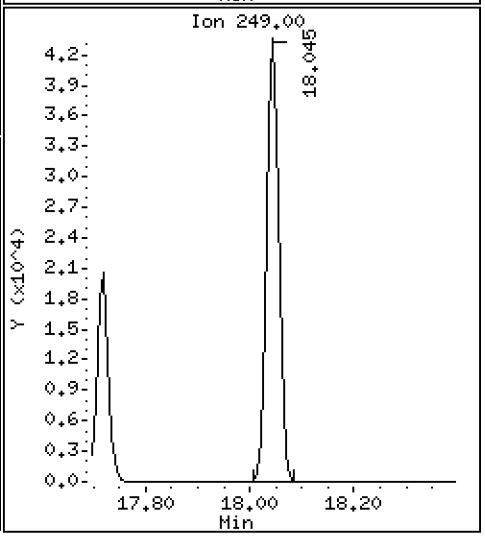


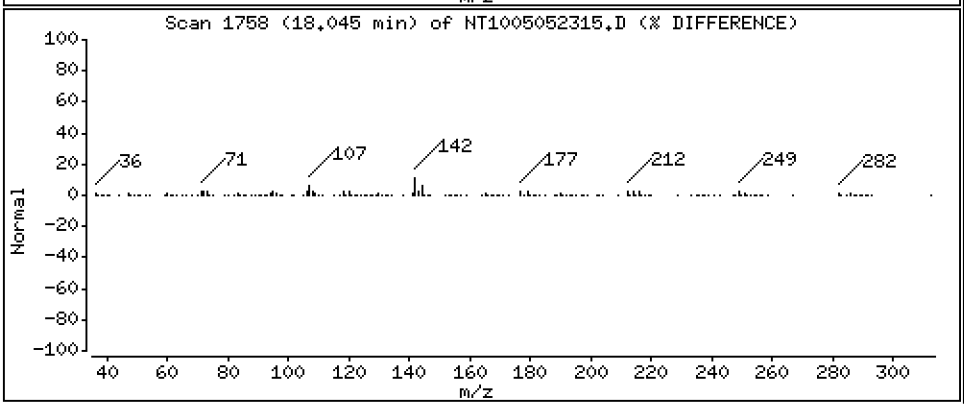












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

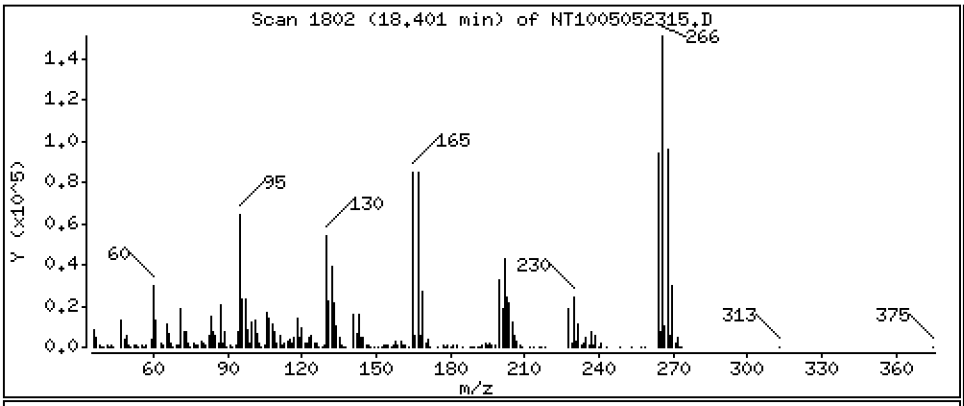
Operator: VTS

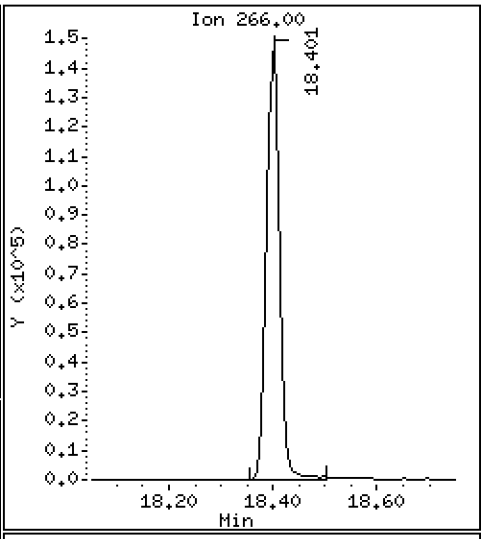
Column phase: ZB-5msi

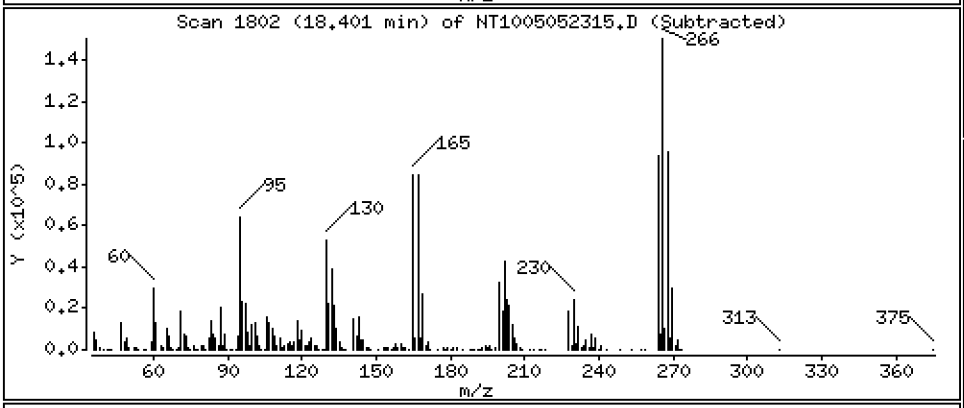
Column diameter: 0.25

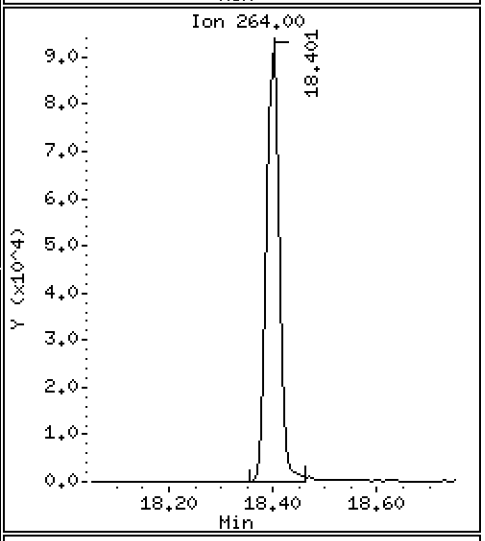
58 Pentachlorophenol

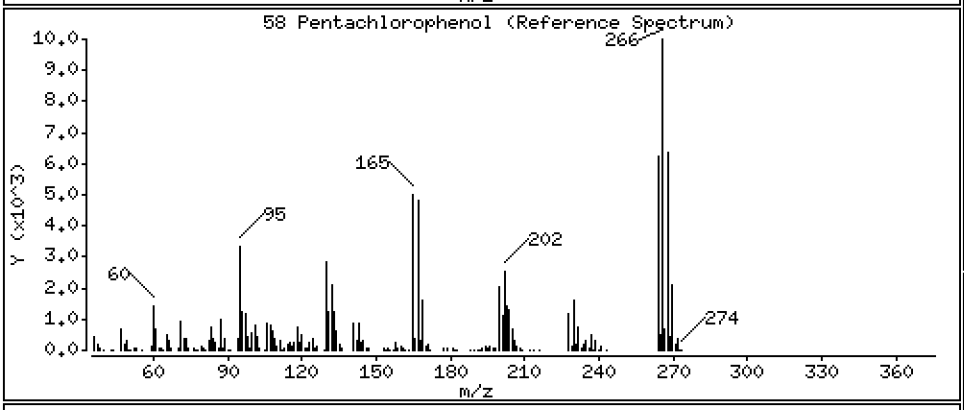
Concentration: 8.069 ug/mL

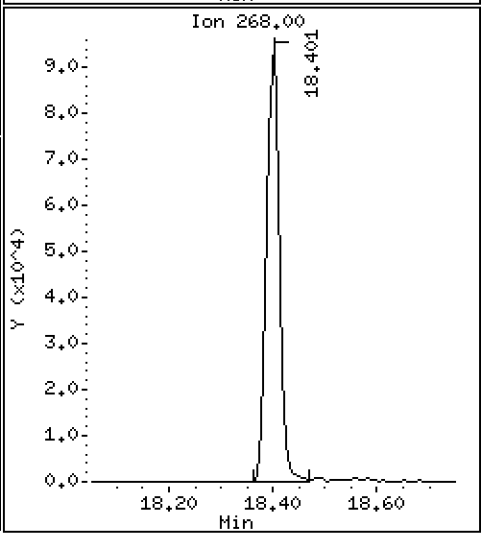


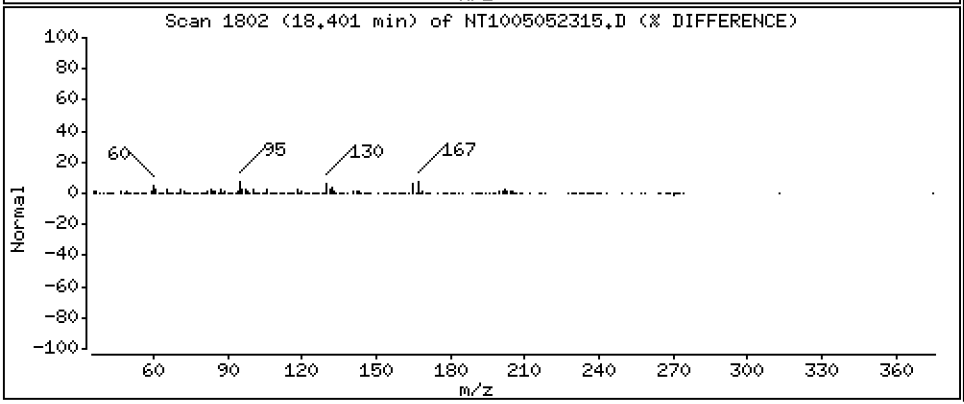












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

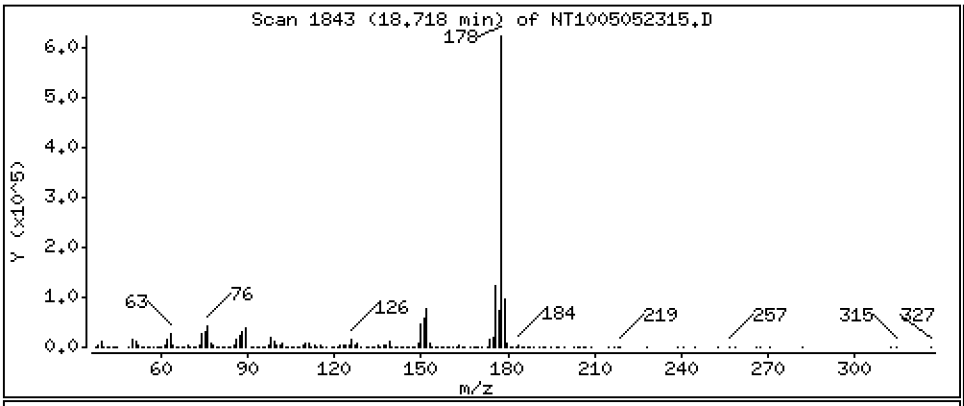
Operator: VTS

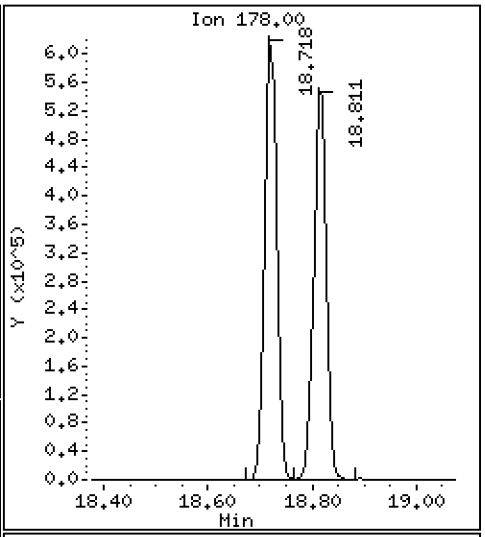
Column phase: ZB-5msi

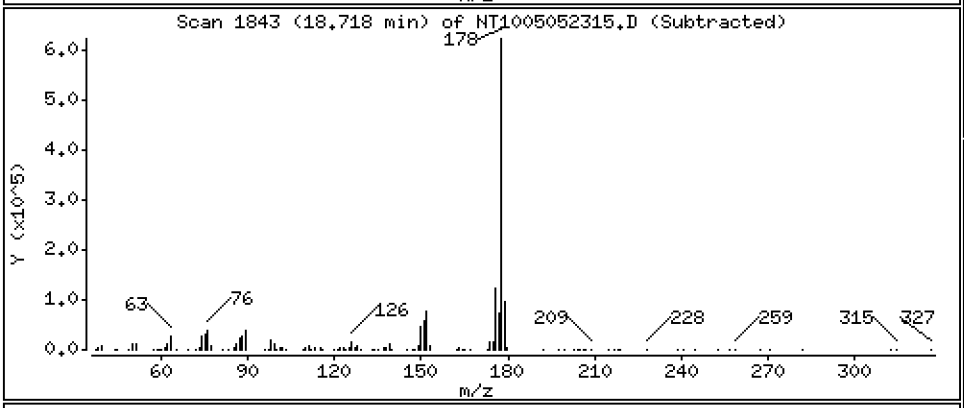
Column diameter: 0.25

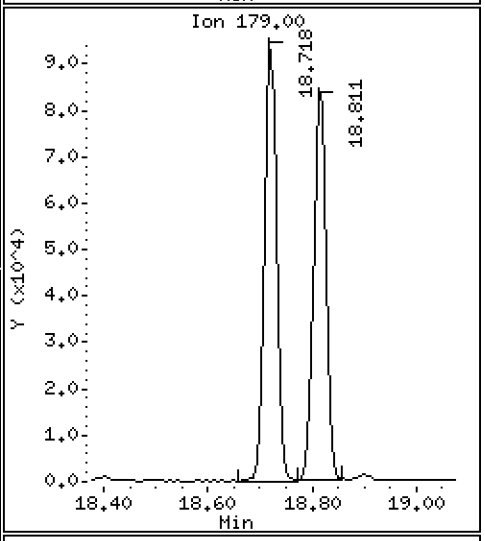
60 Phenanthrene

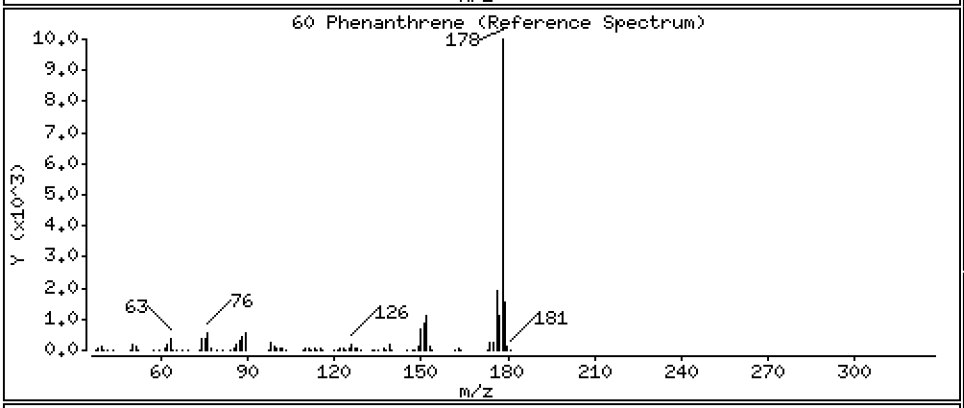
Concentration: 4.665 ug/mL

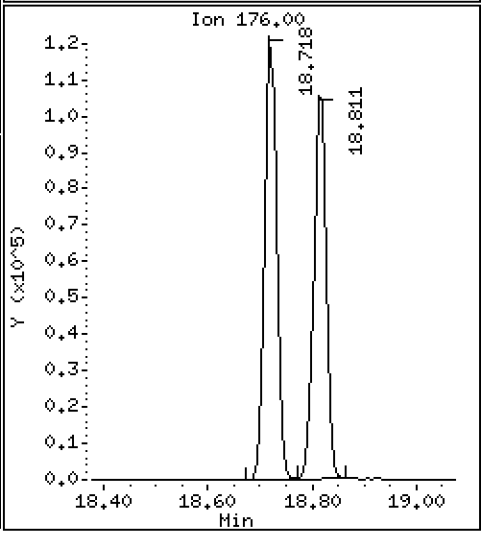


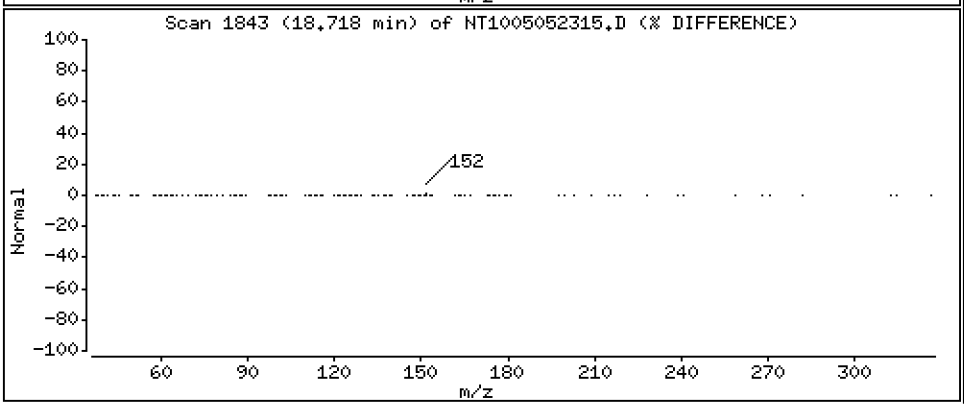












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

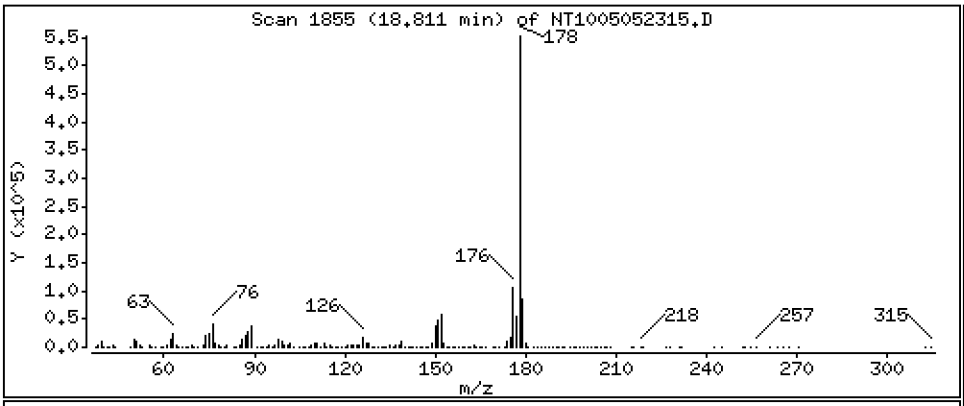
Operator: VTS

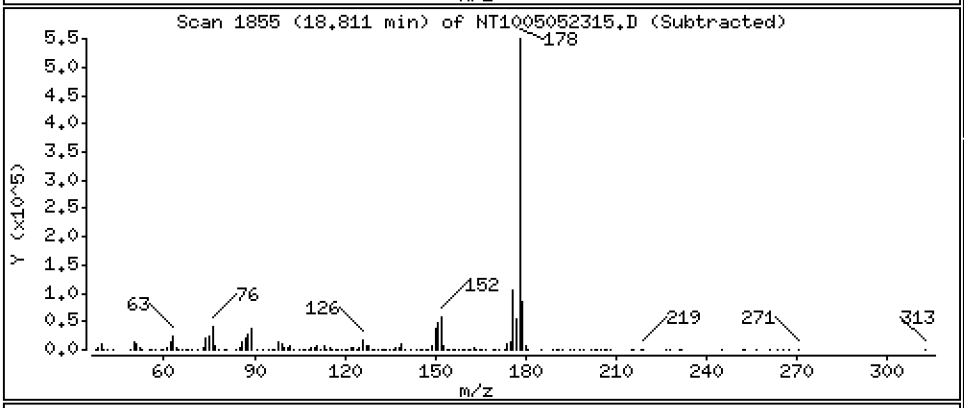
Column phase: ZB-5msi

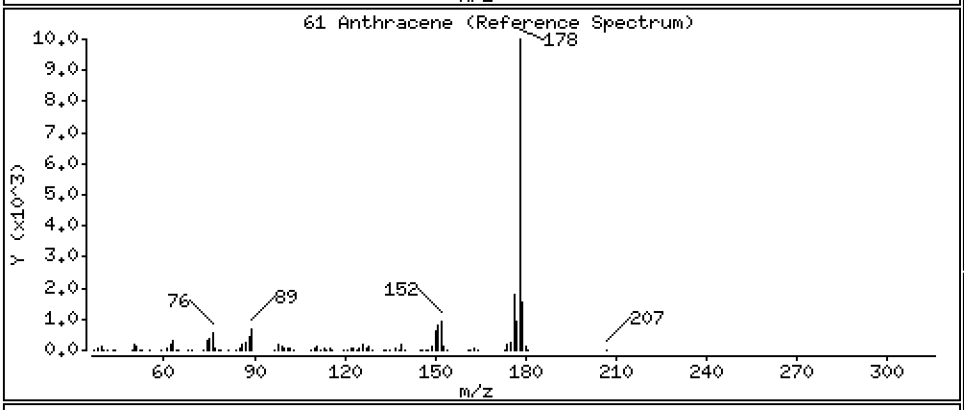
Column diameter: 0.25

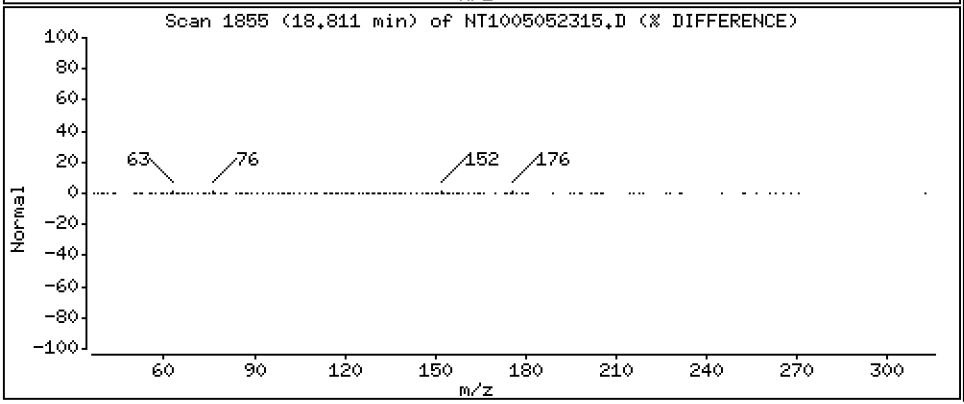
61 Anthracene

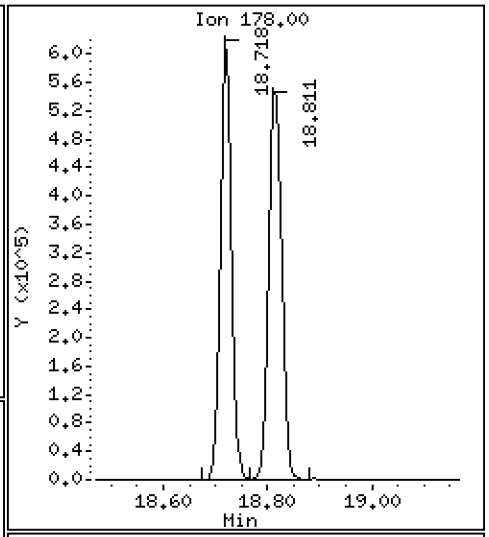
Concentration: 4.946 ug/mL

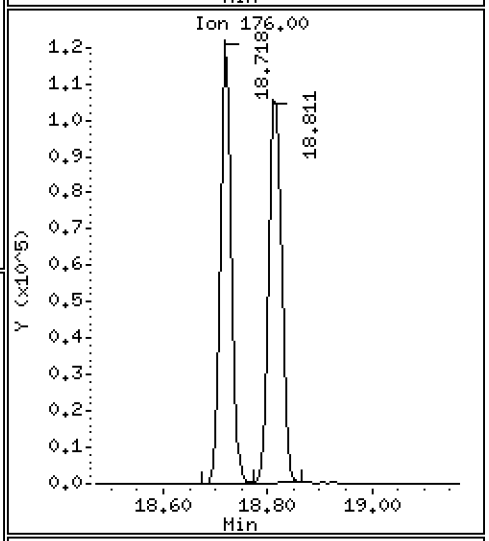


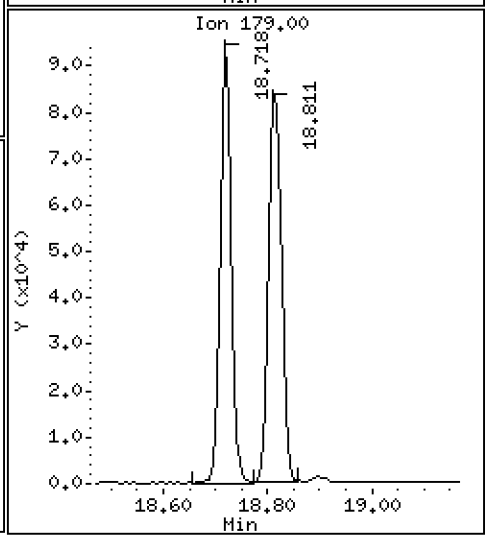












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

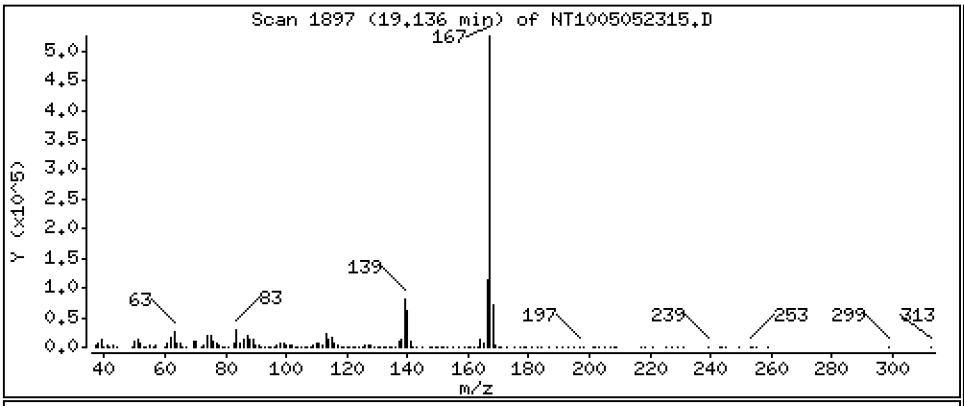
Operator: VTS

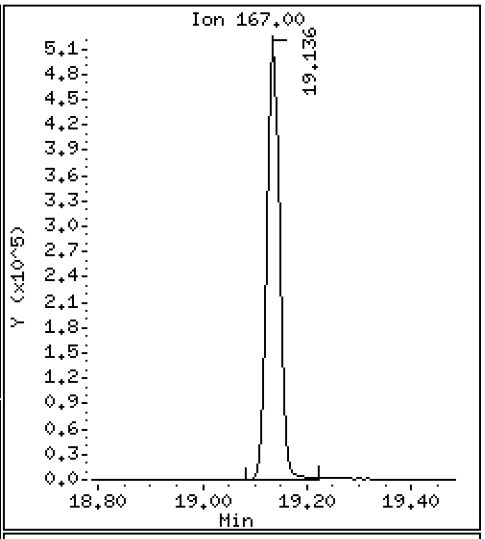
Column phase: ZB-5msi

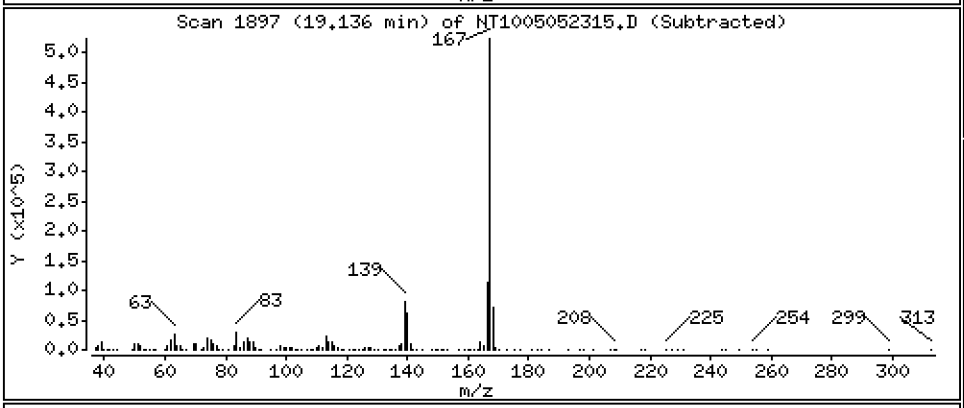
Column diameter: 0.25

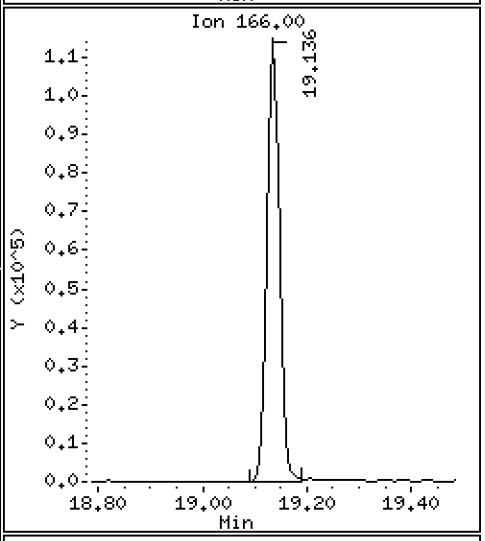
62 Carbazole

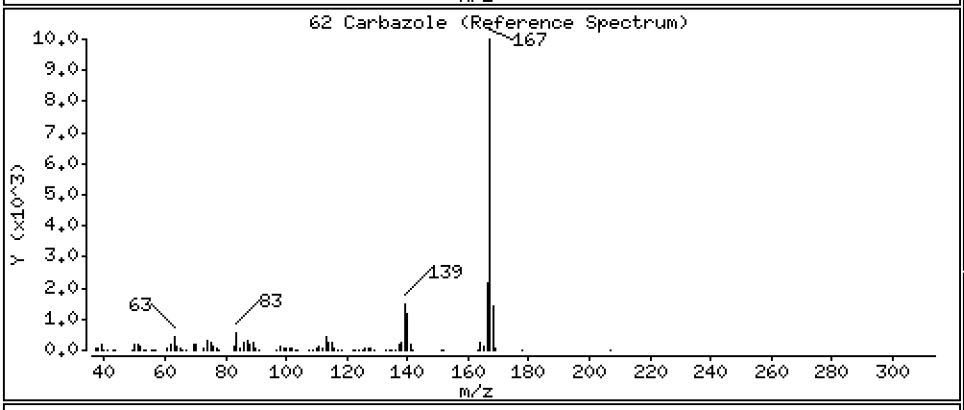
Concentration: 5.067 ug/mL

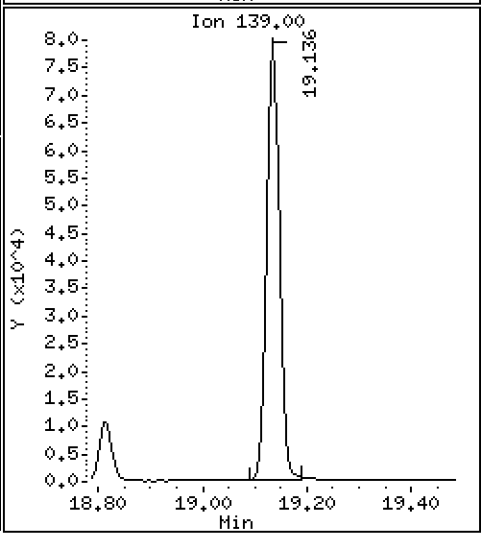


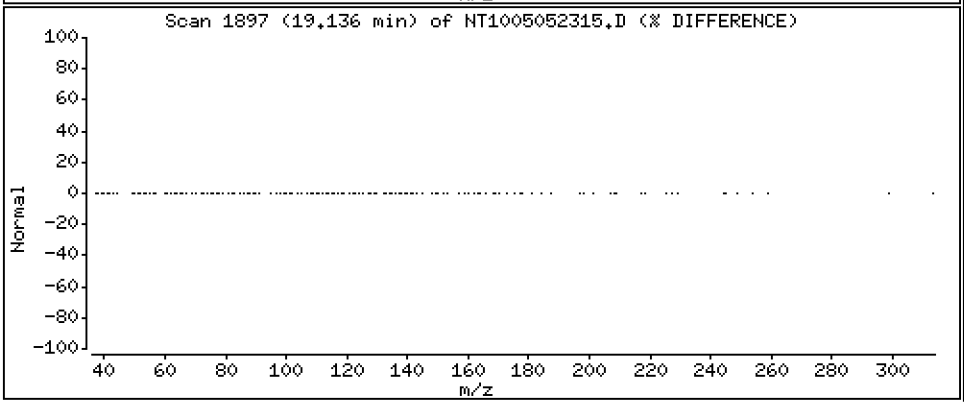












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

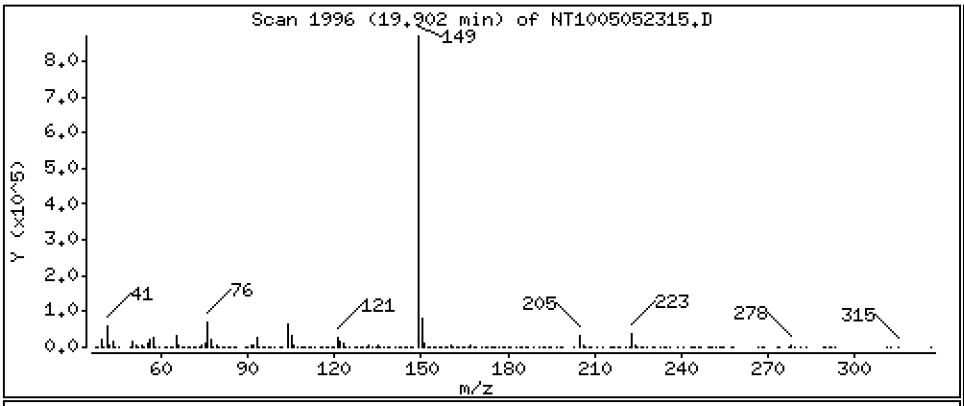
Operator: VTS

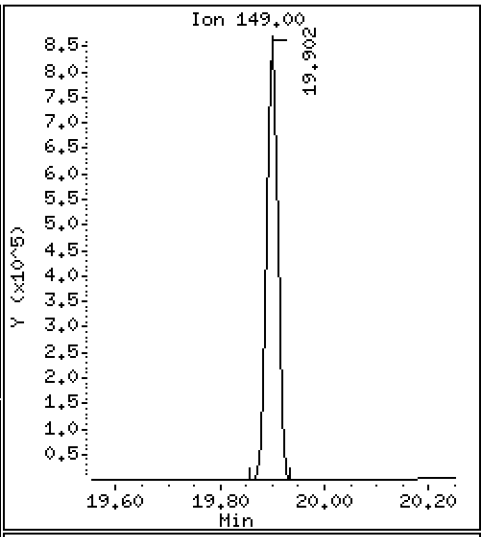
Column phase: ZB-5msi

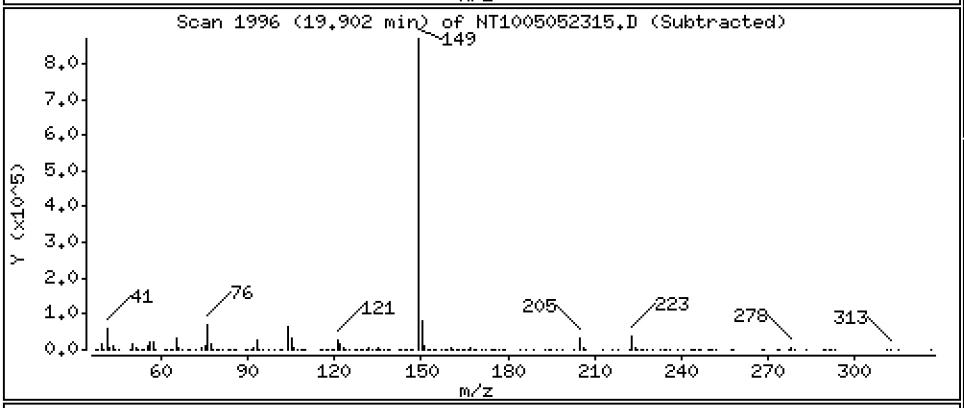
Column diameter: 0.25

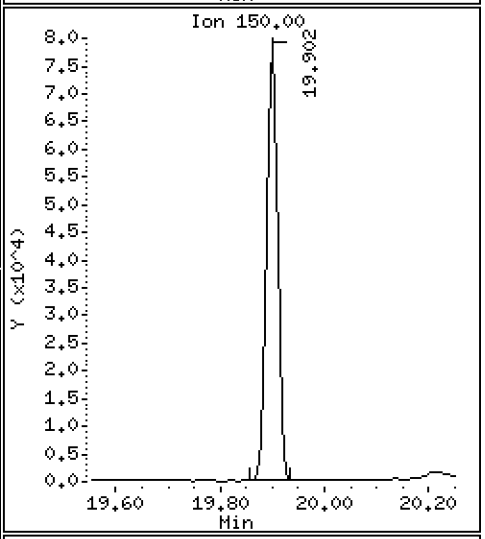
63 Di-n-butylphthalate

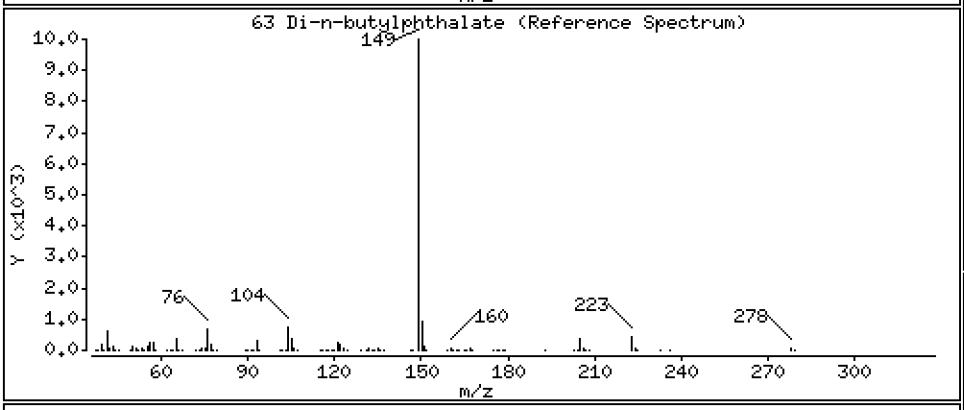
Concentration: 4.784 ug/mL

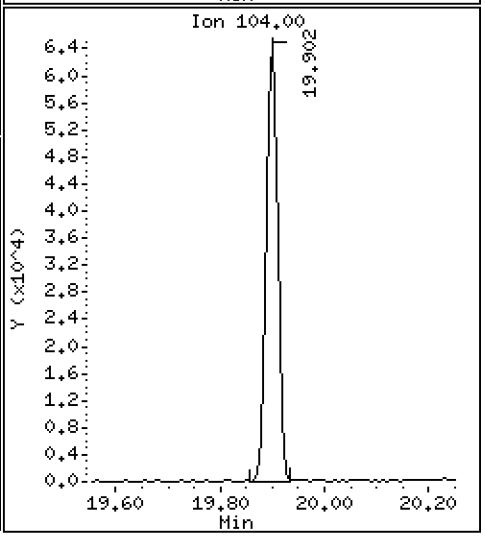


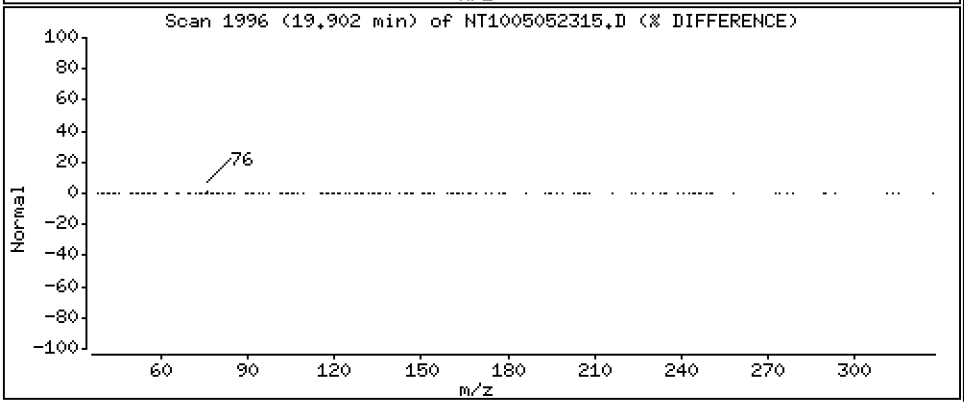












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

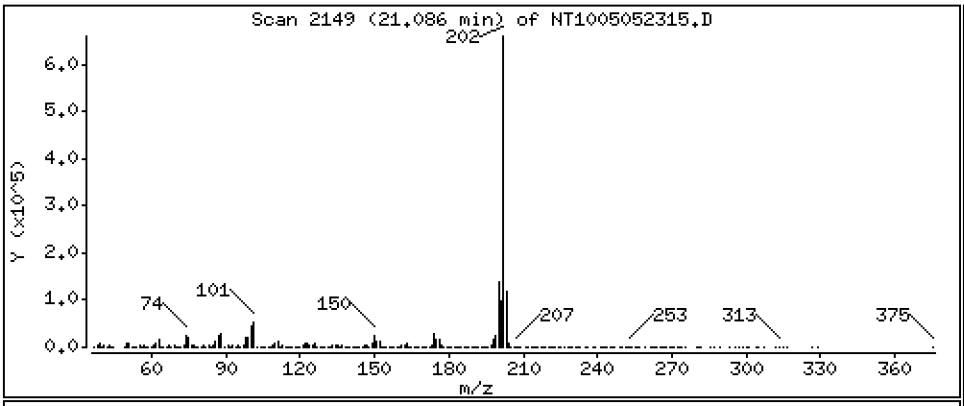
Operator: VTS

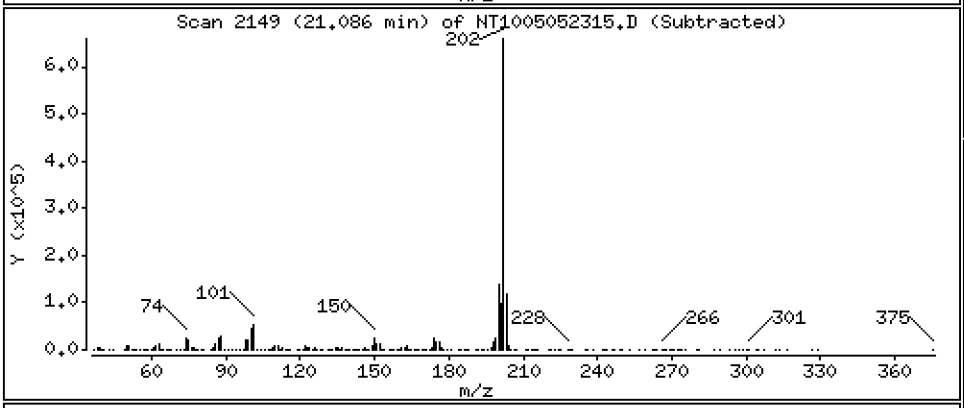
Column phase: ZB-5msi

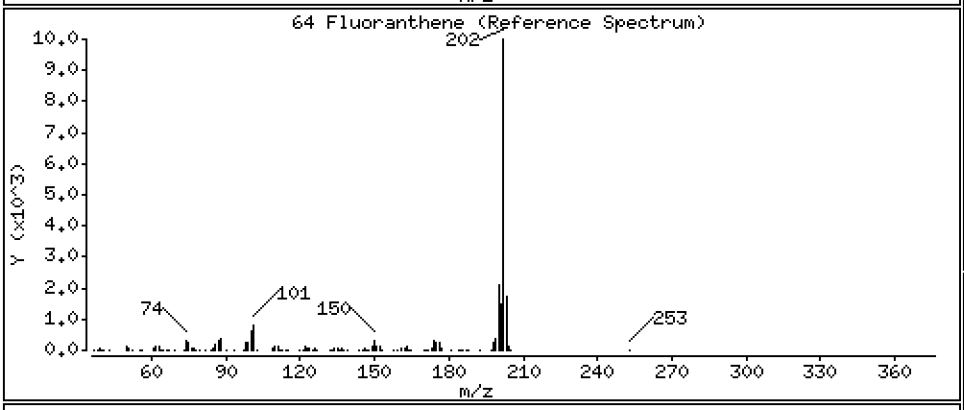
Column diameter: 0.25

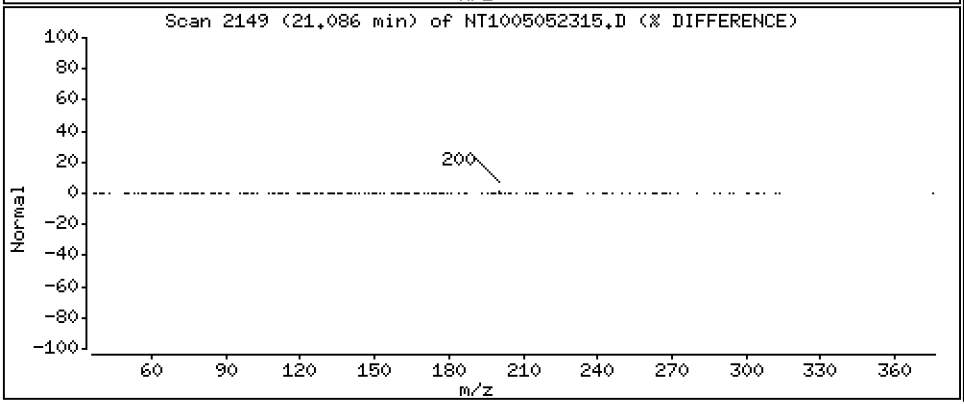
64 Fluoranthene

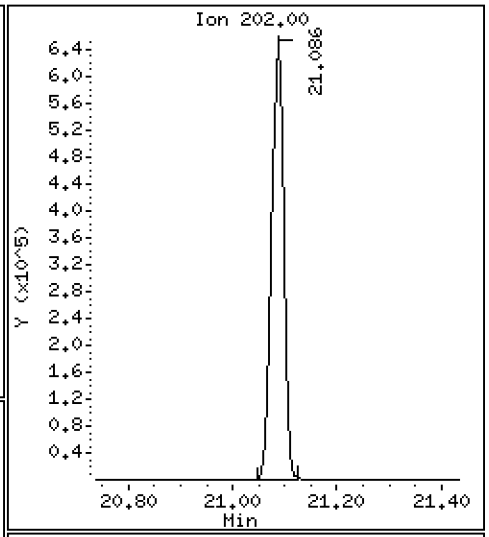
Concentration: 4.437 ug/mL

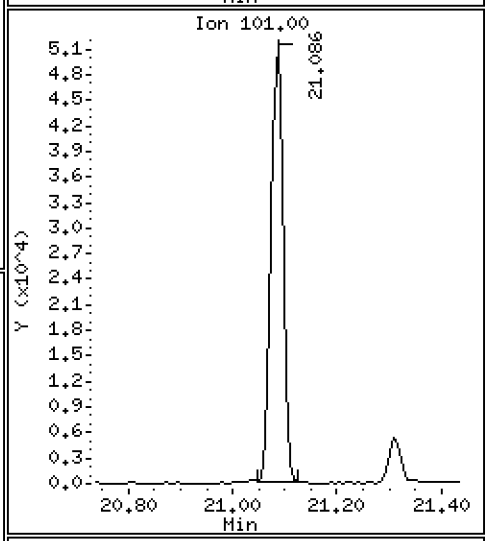


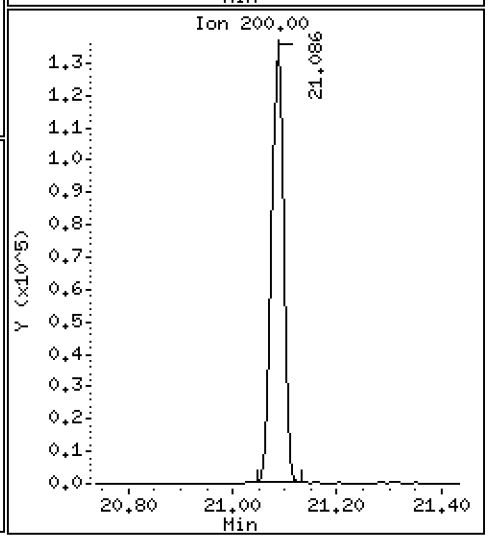












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

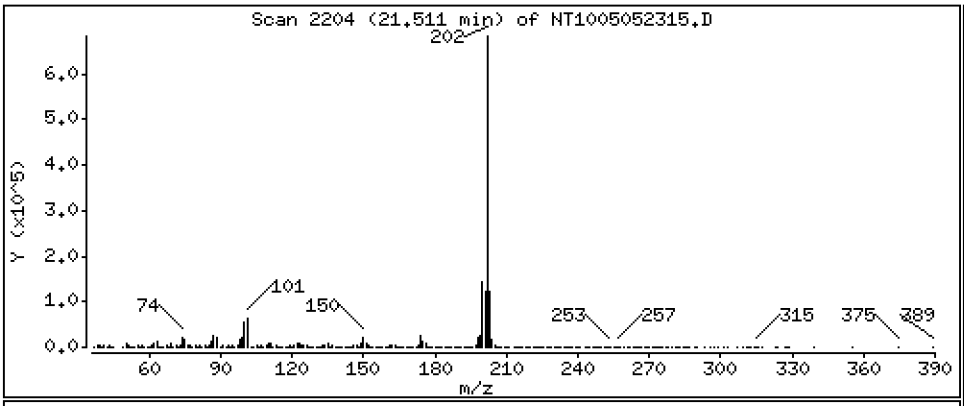
Operator: VTS

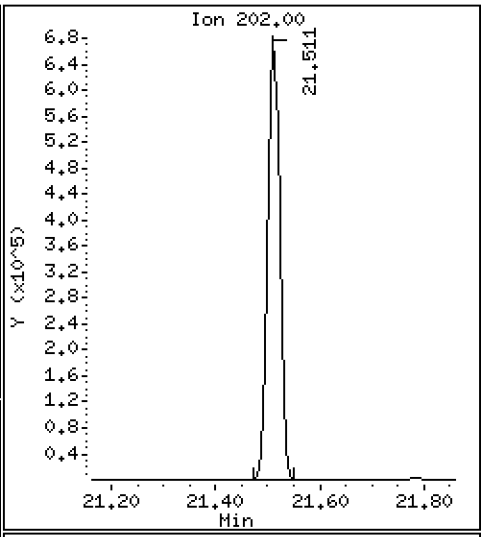
Column phase: ZB-5msi

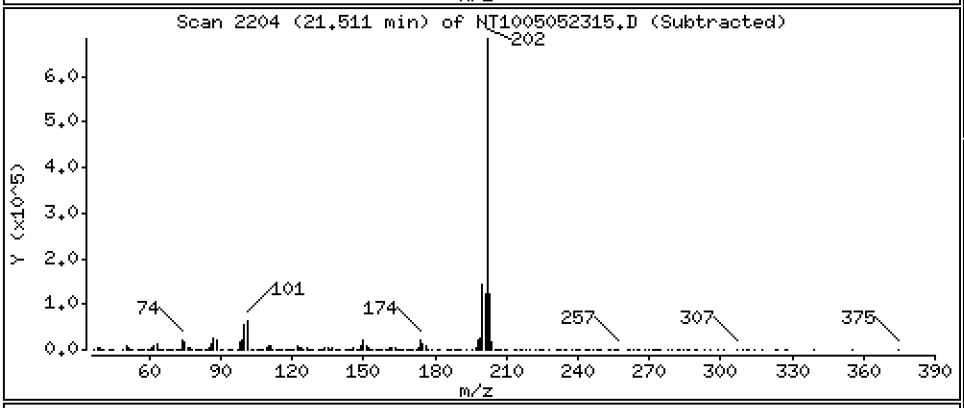
Column diameter: 0.25

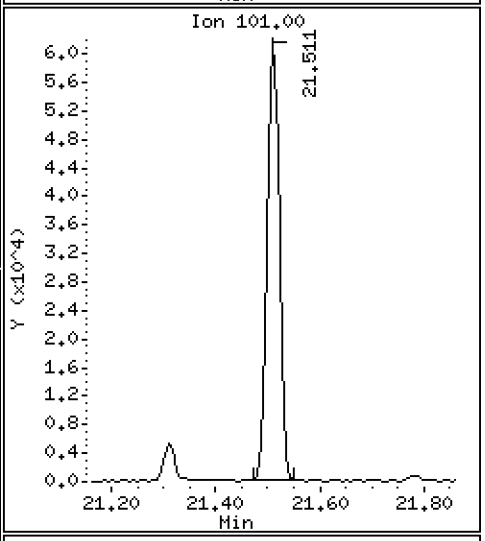
65 Pyrene

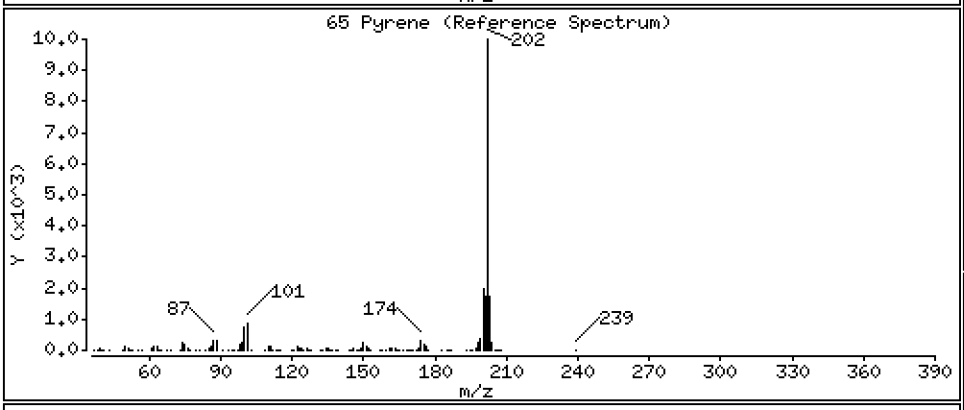
Concentration: 4.615 ug/mL

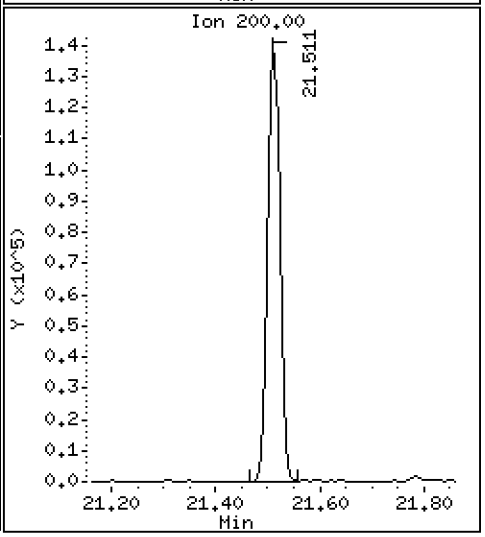


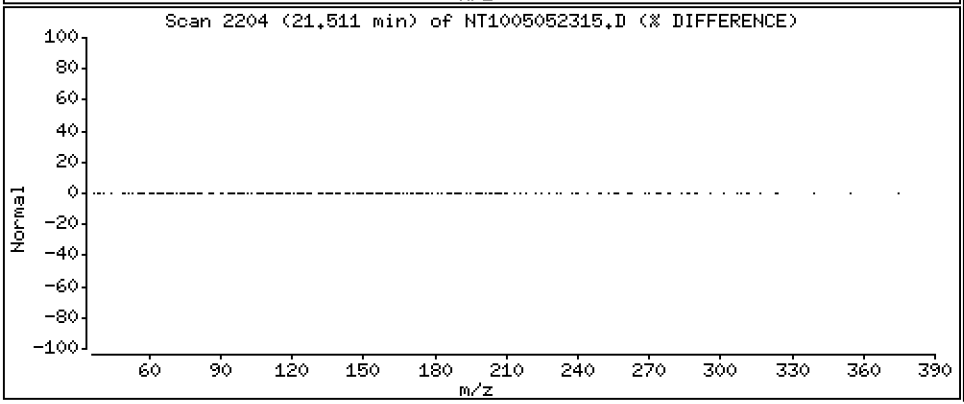












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

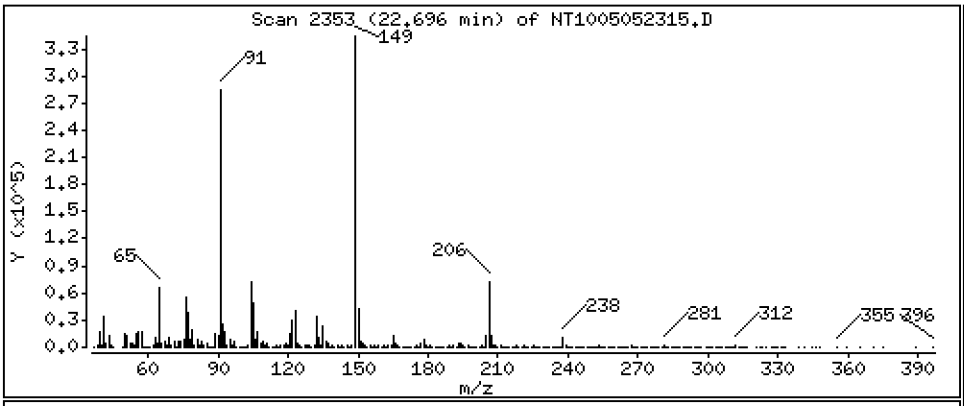
Operator: VTS

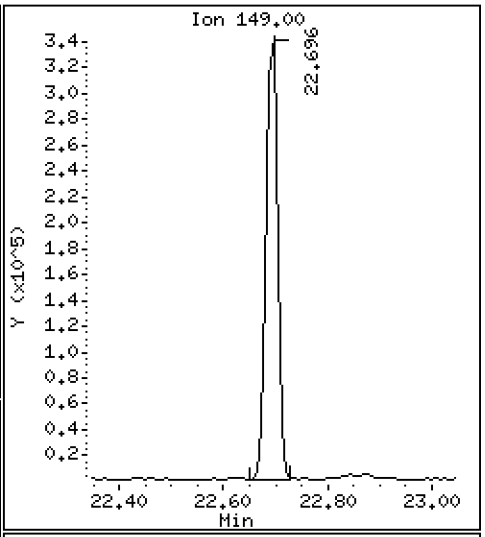
Column phase: ZB-5msi

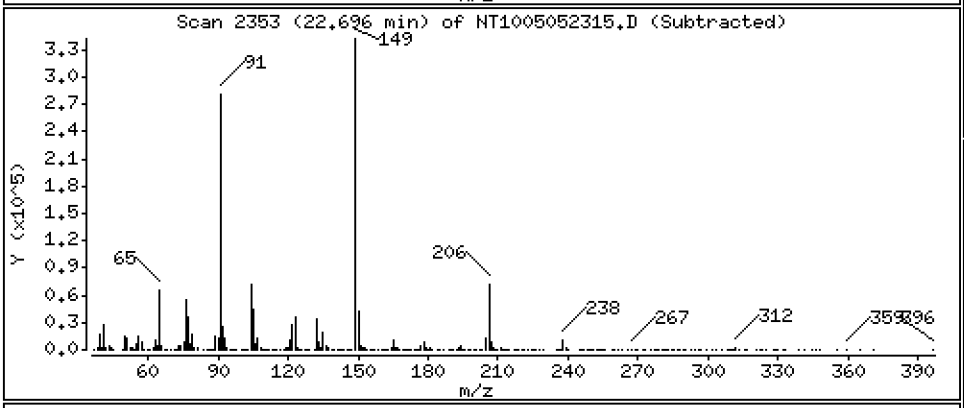
Column diameter: 0.25

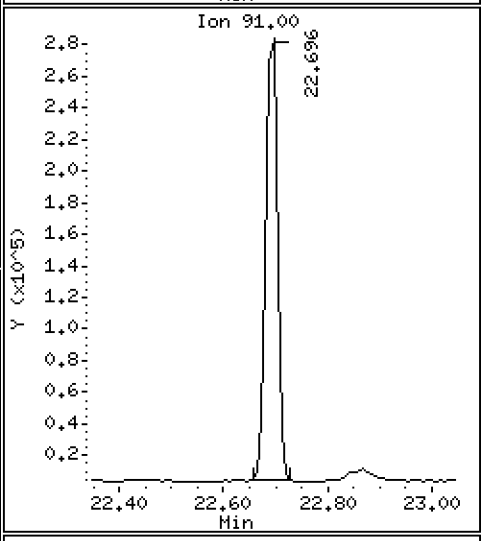
67 Butylbenzylphthalate

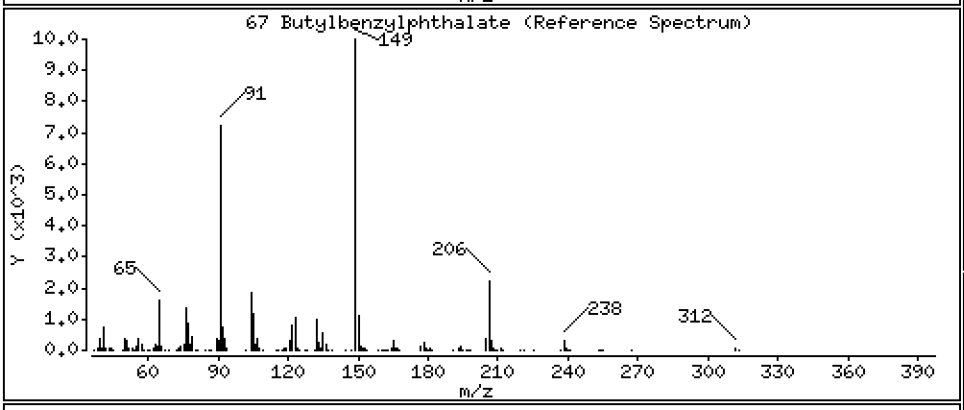
Concentration: 4.958 ug/mL

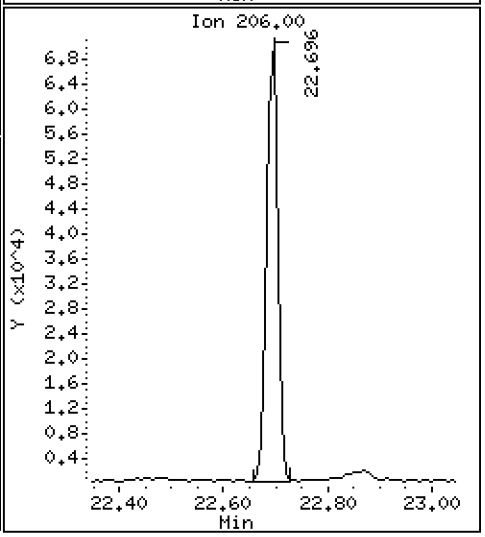


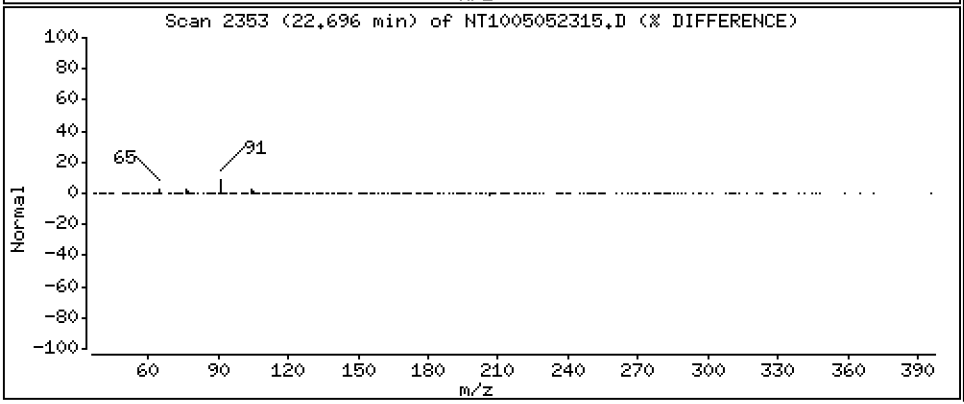












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

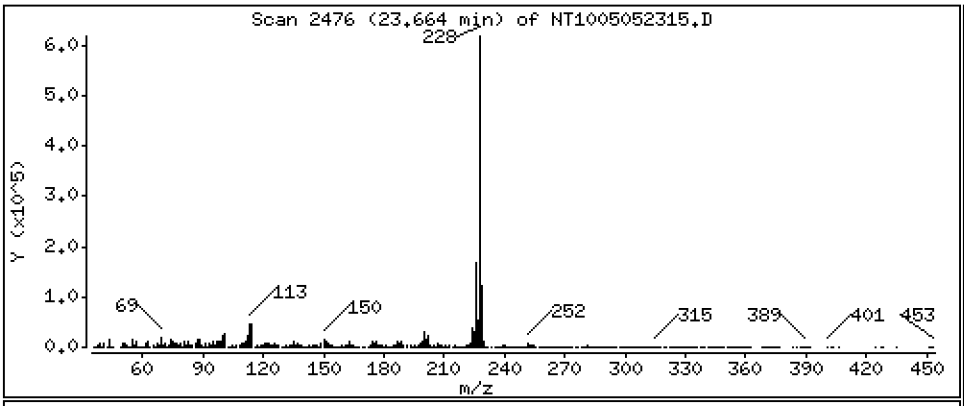
Operator: VTS

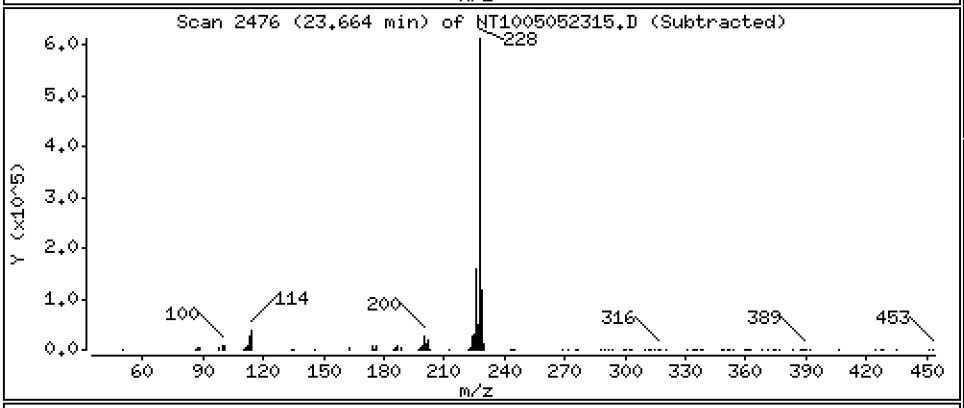
Column phase: ZB-5msi

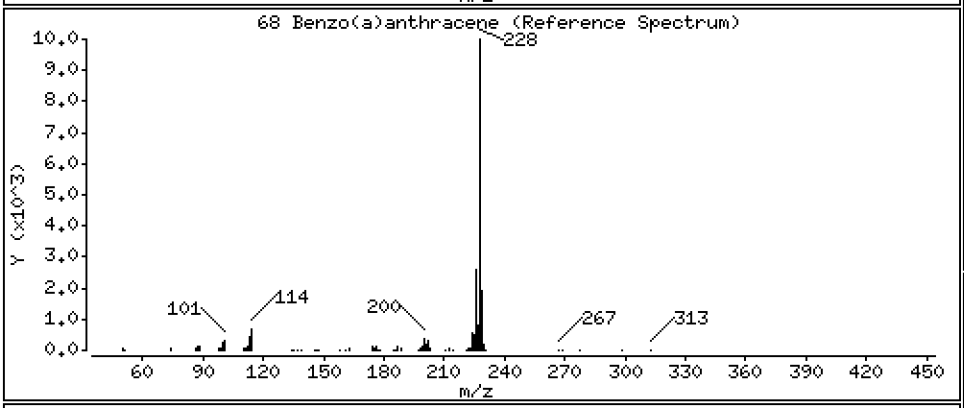
Column diameter: 0.25

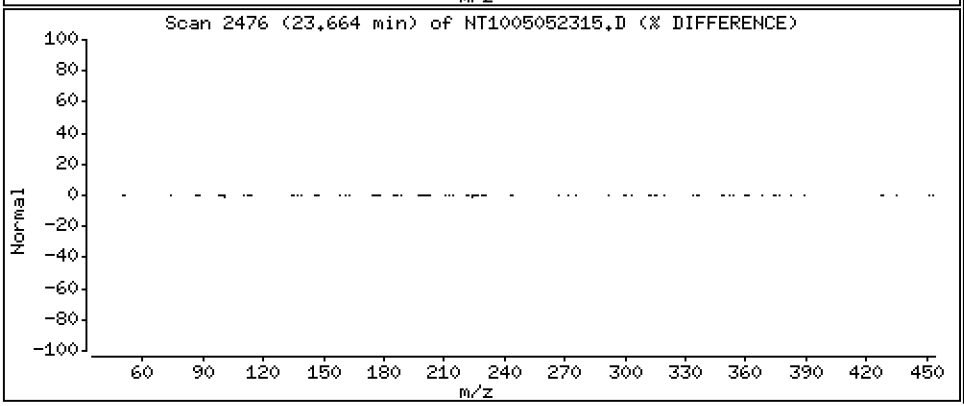
68 Benzo(a)anthracene

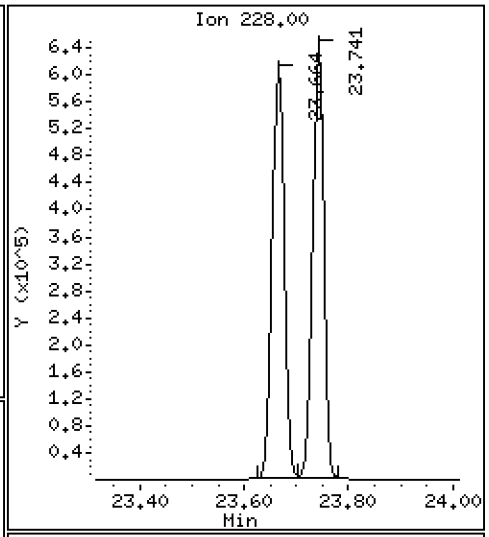
Concentration: 4.718 ug/mL

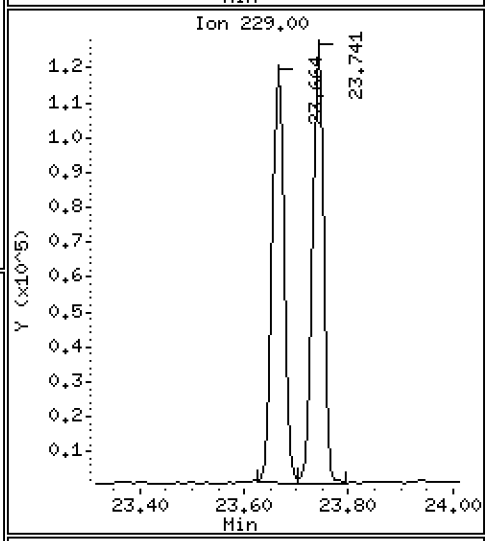


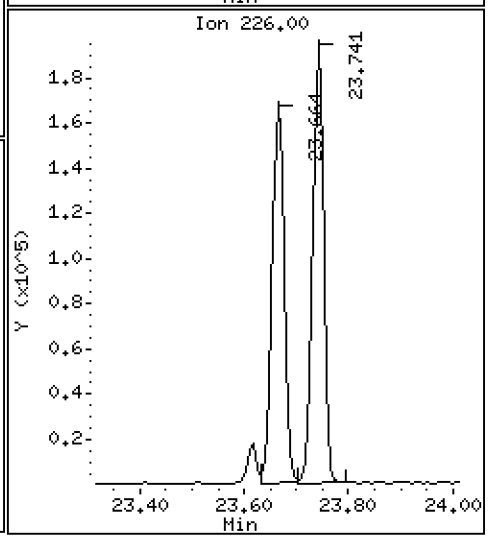












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

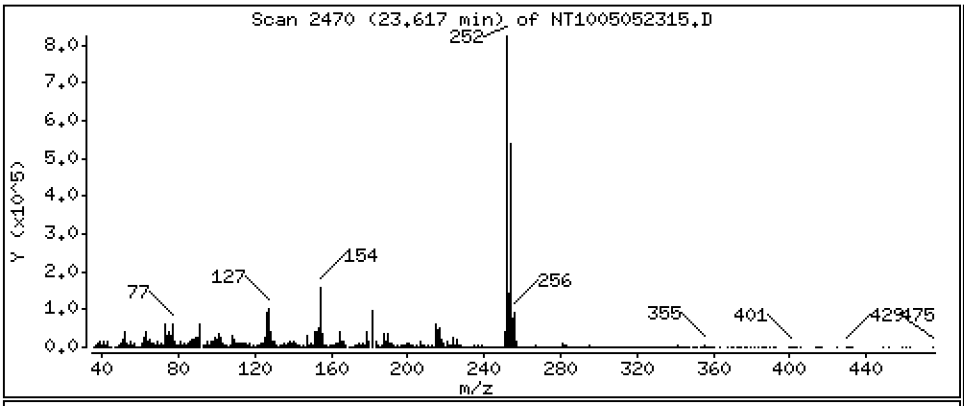
Operator: VTS

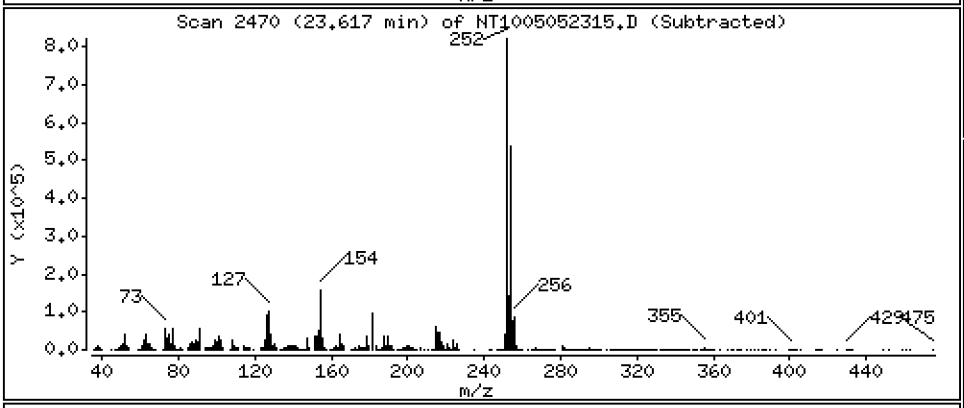
Column phase: ZB-5msi

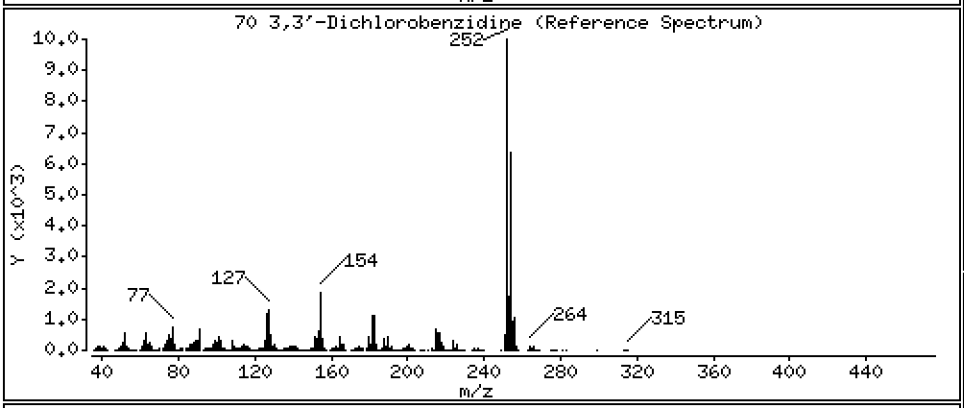
Column diameter: 0.25

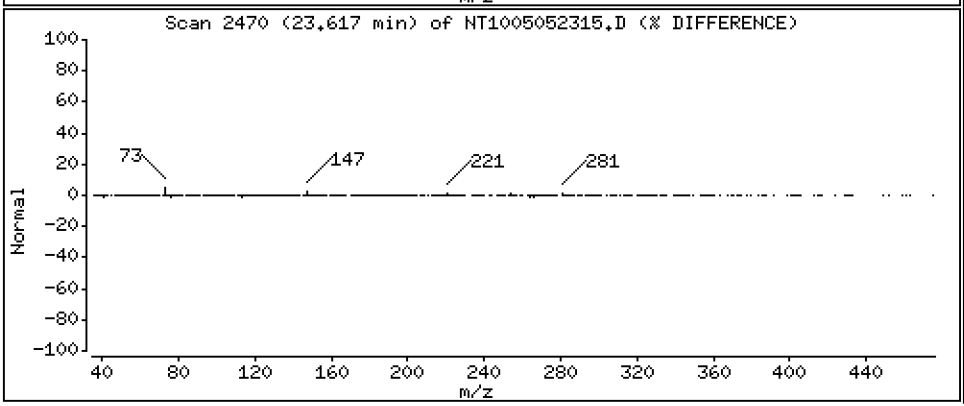
70 3,3'-Dichlorobenzidine

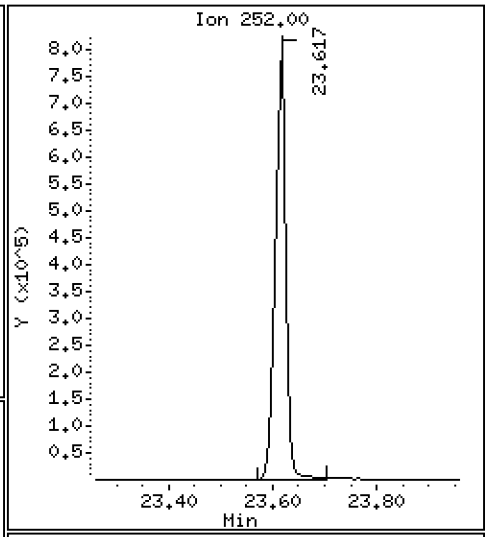
Concentration: 16.71 ug/mL

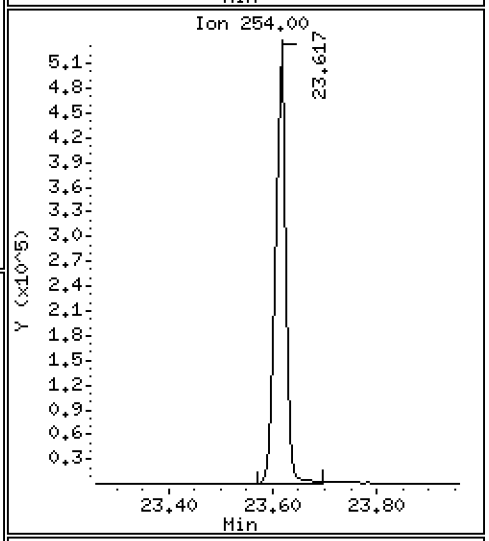


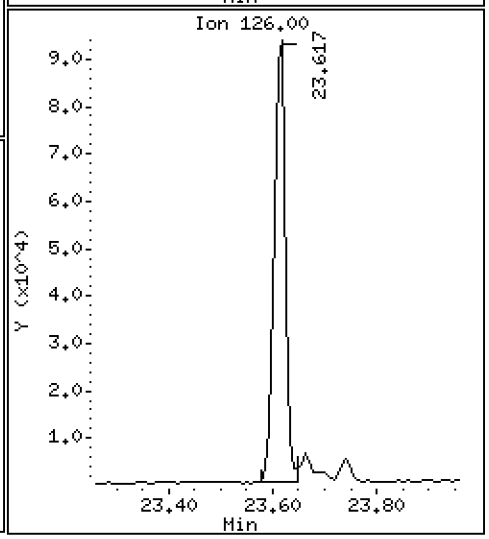












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

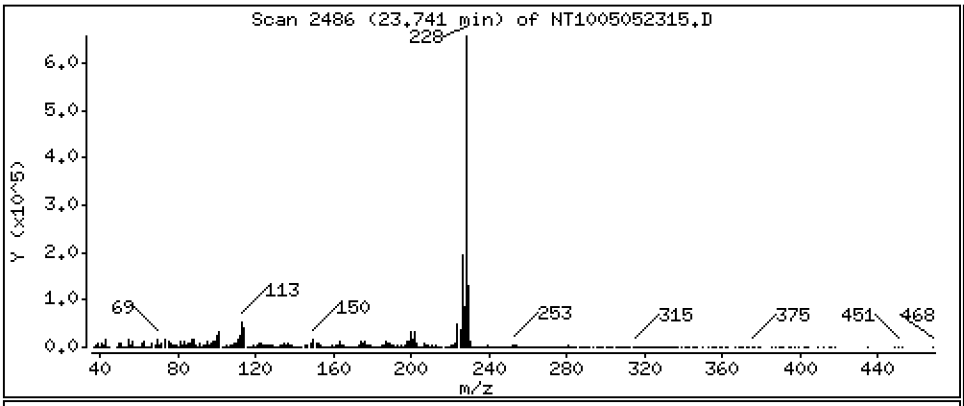
Operator: VTS

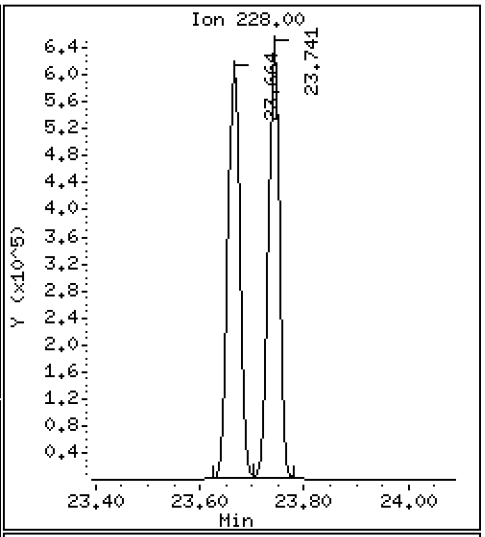
Column phase: ZB-5msi

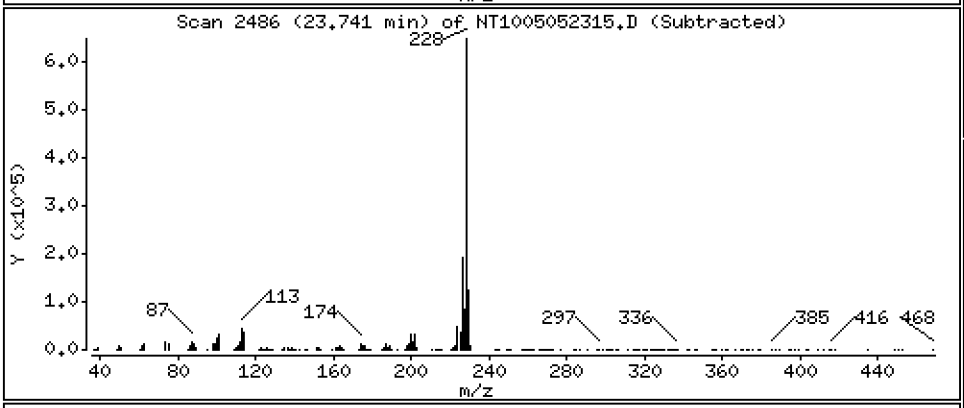
Column diameter: 0.25

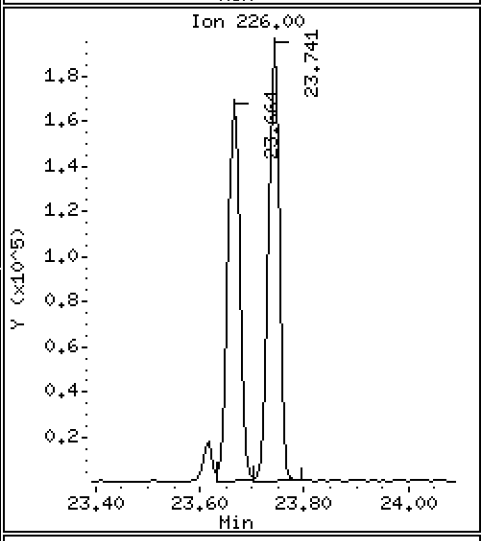
71 Chrysene

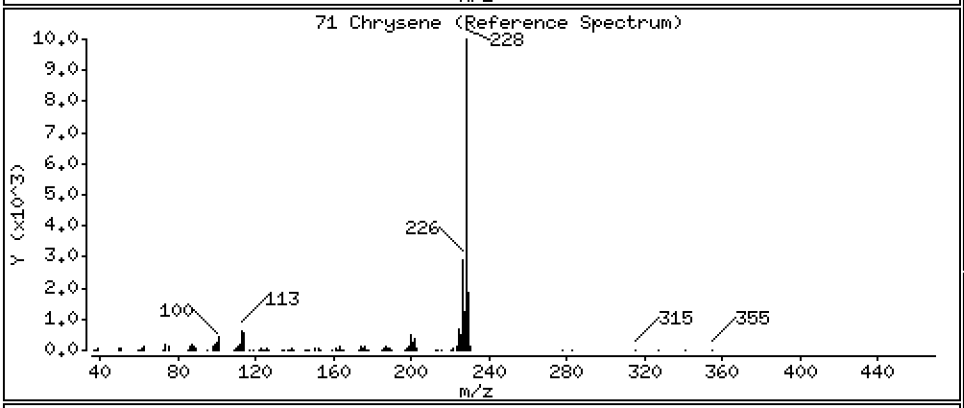
Concentration: 5.001 ug/mL

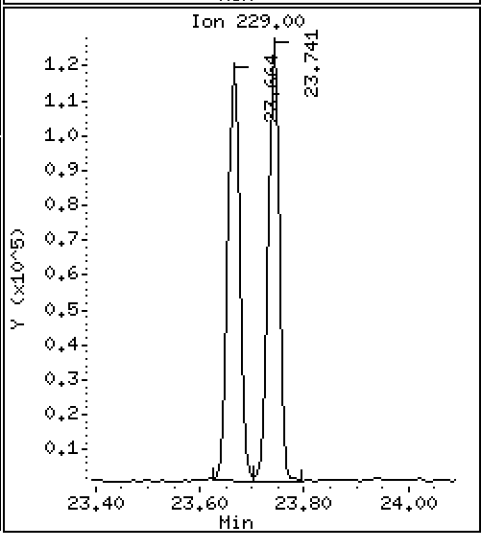


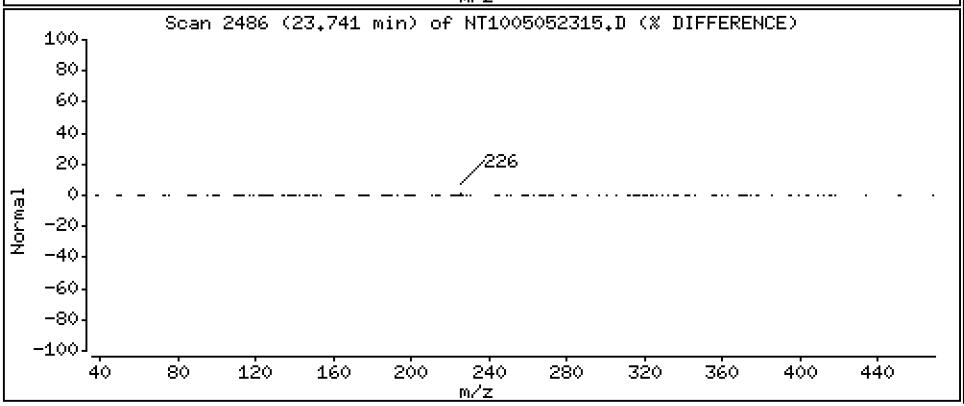












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

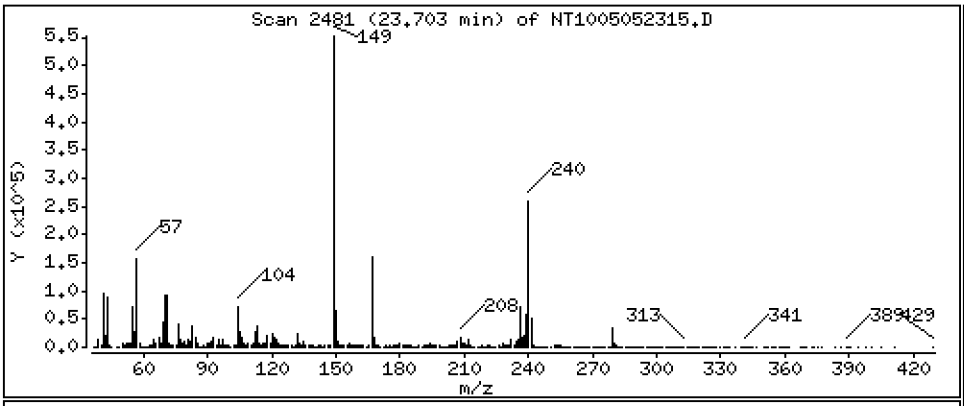
Operator: VTS

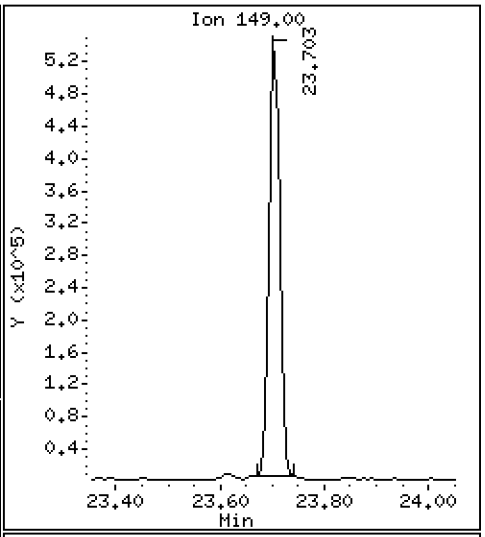
Column phase: ZB-5msi

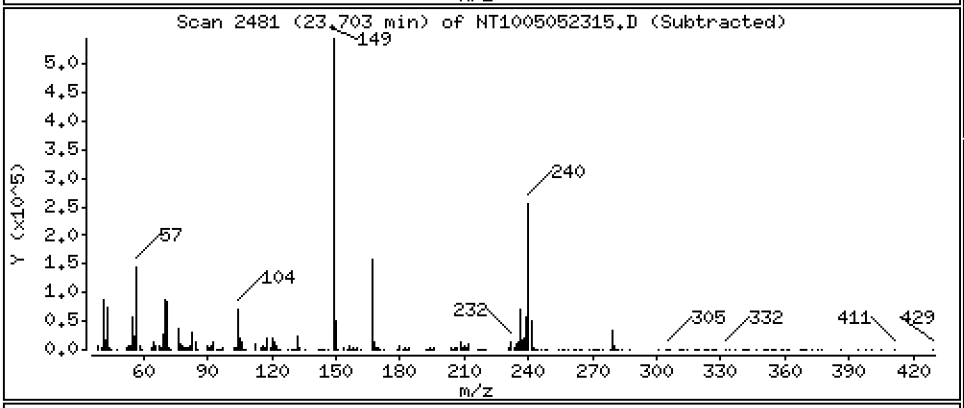
Column diameter: 0.25

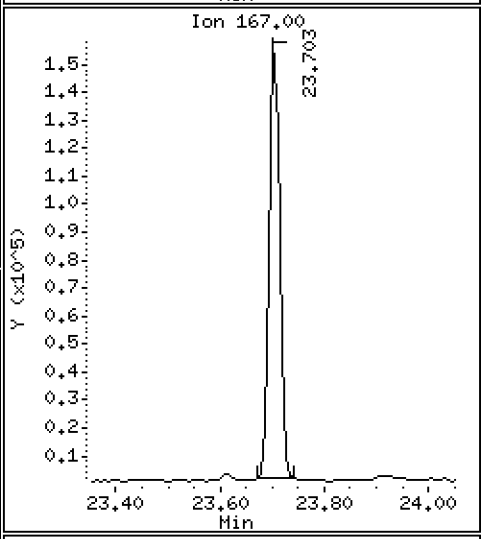
72 bis(2-Ethylhexyl)phthalate

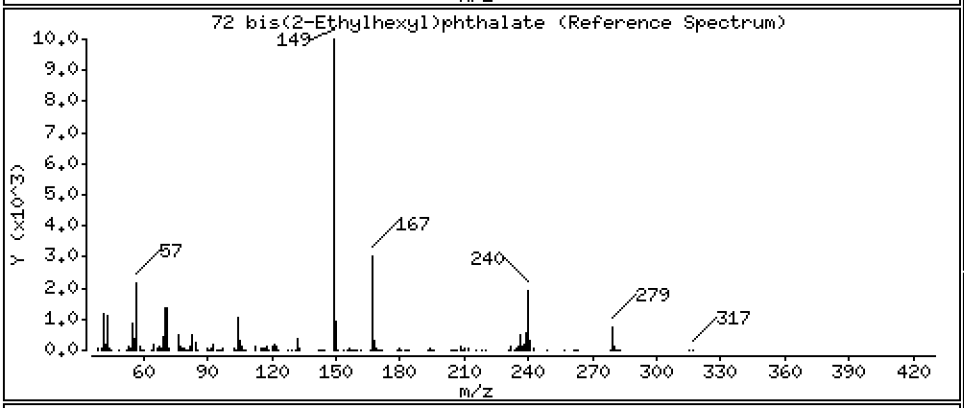
Concentration: 4.644 ug/mL

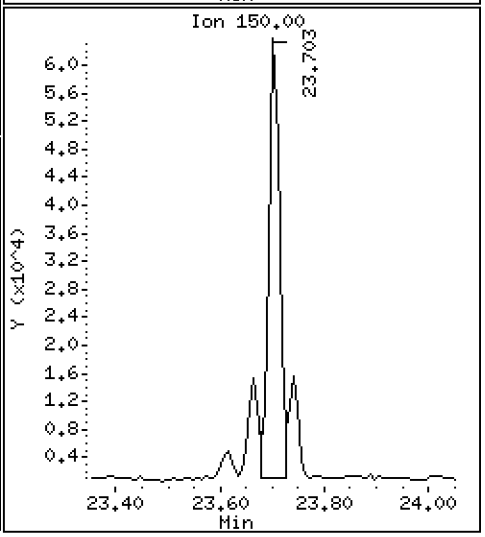


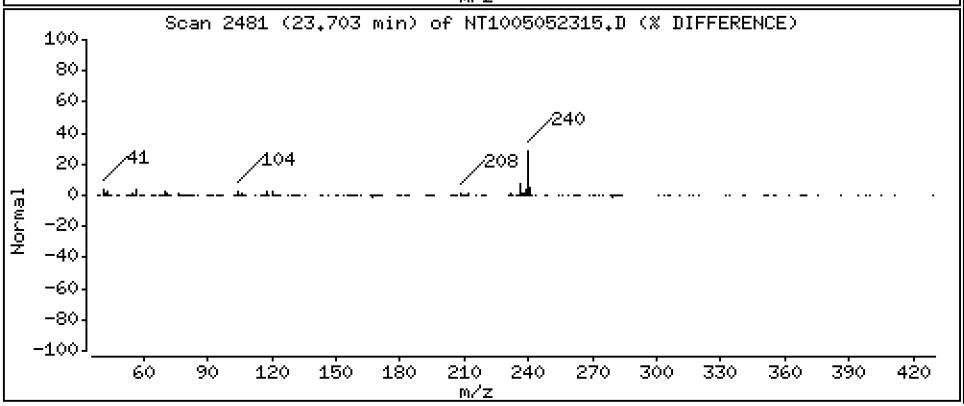












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

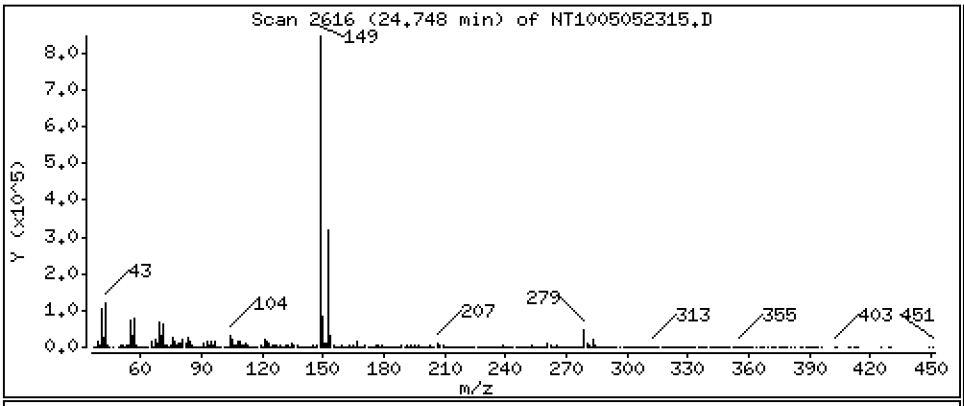
Operator: VTS

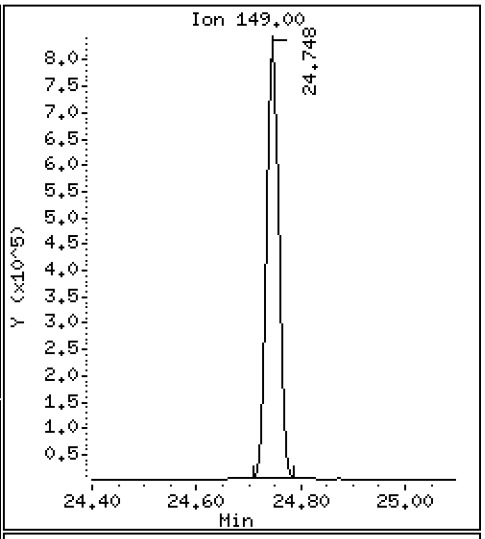
Column phase: ZB-5msi

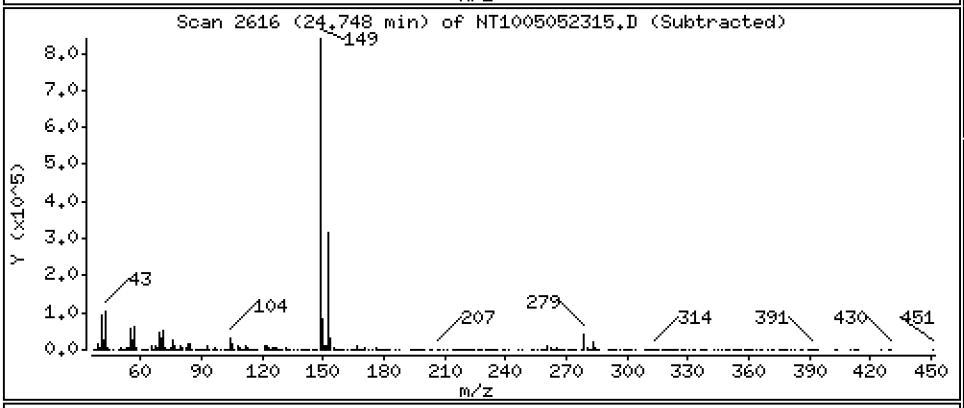
Column diameter: 0.25

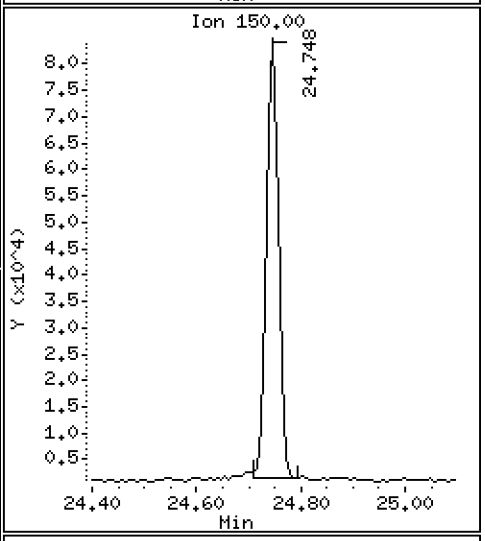
73 Di-n-octylphthalate

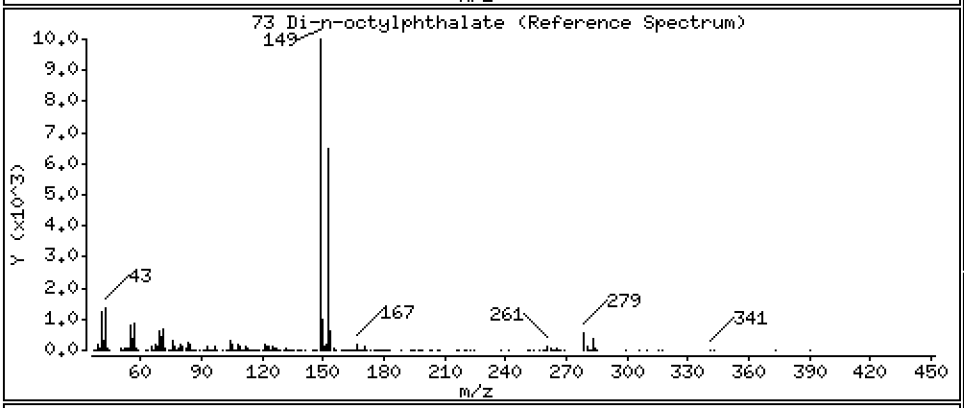
Concentration: 4.556 ug/mL

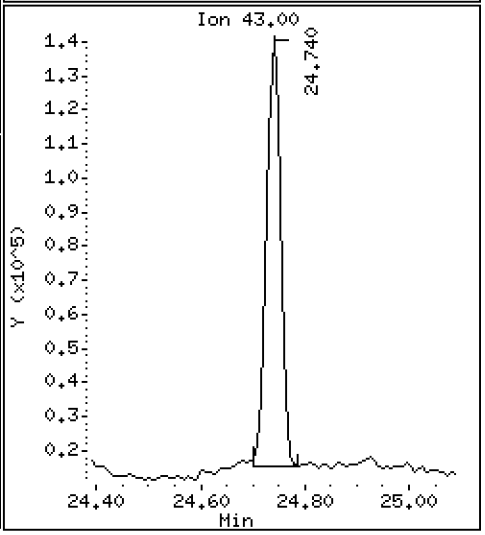


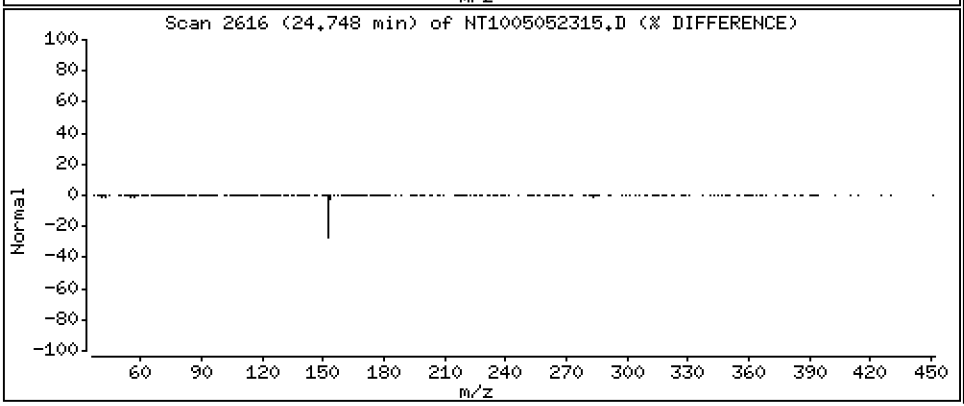












Date : 05-MAY-2023 19:50

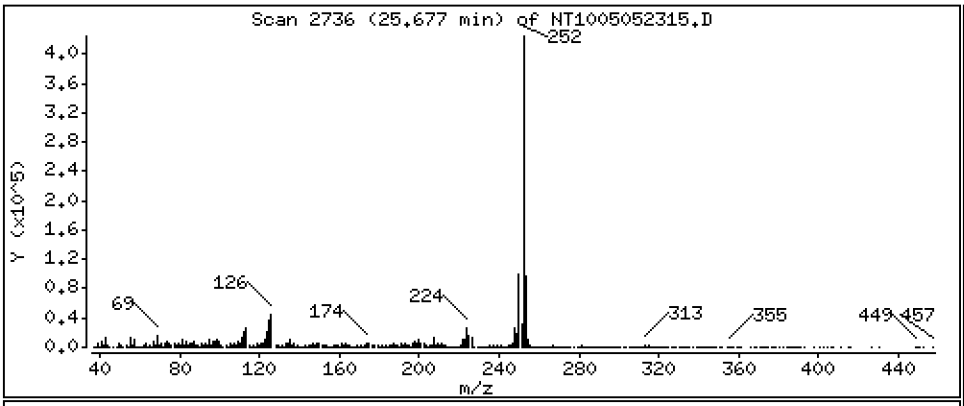
Client ID: Instrument: nt10.i

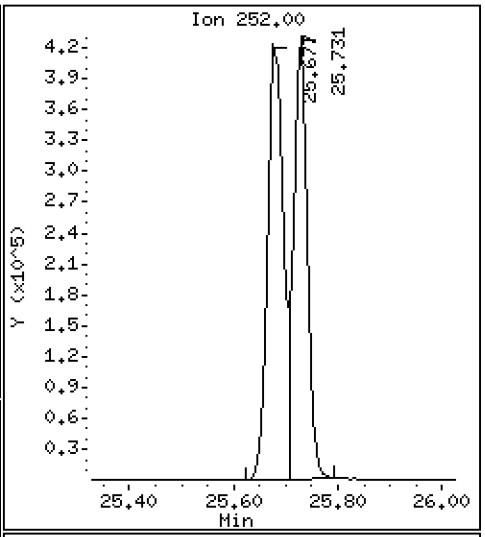
Sample Info: SLE0101-CCV1

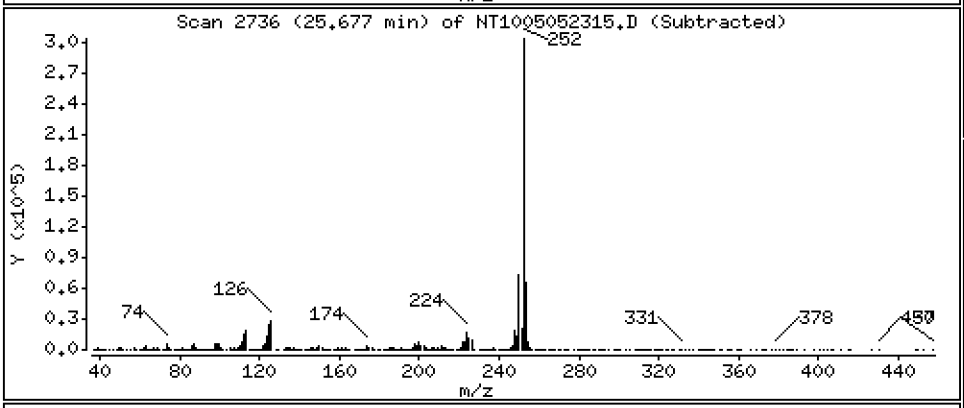
Operator: VTS

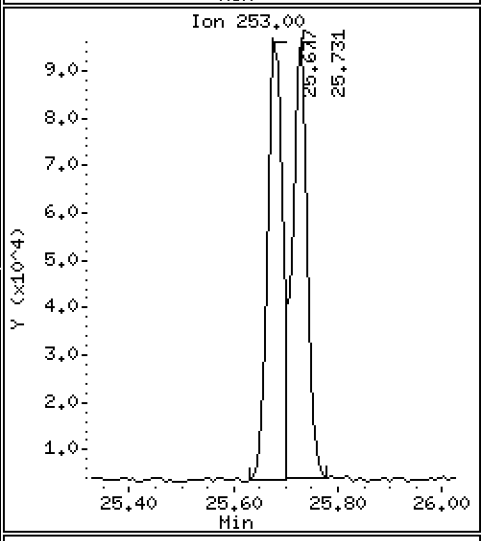
Column phase: ZB-5msi Column diameter: 0.25

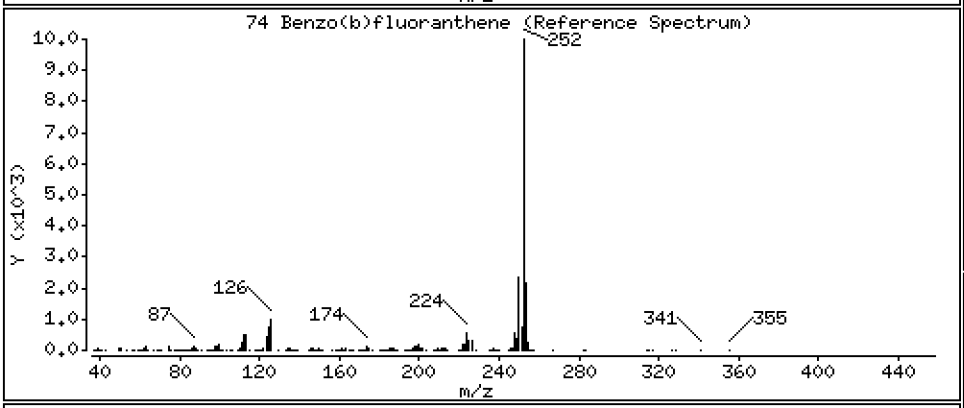
74 Benzo(b)fluoranthene Concentration: 4.733 ug/mL

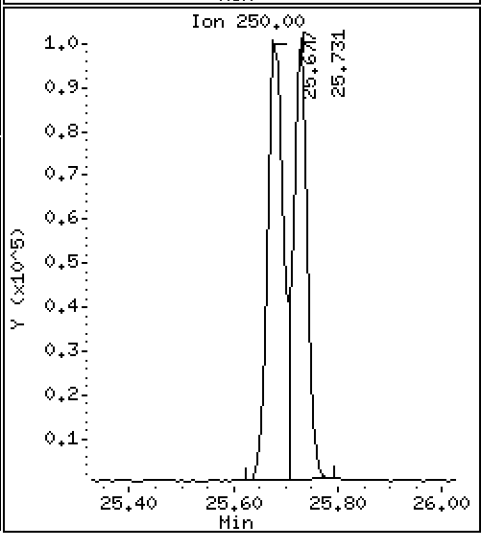


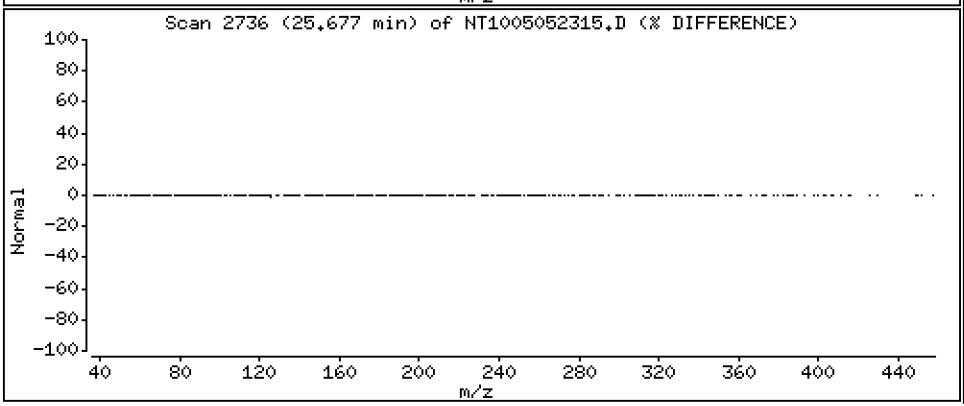












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

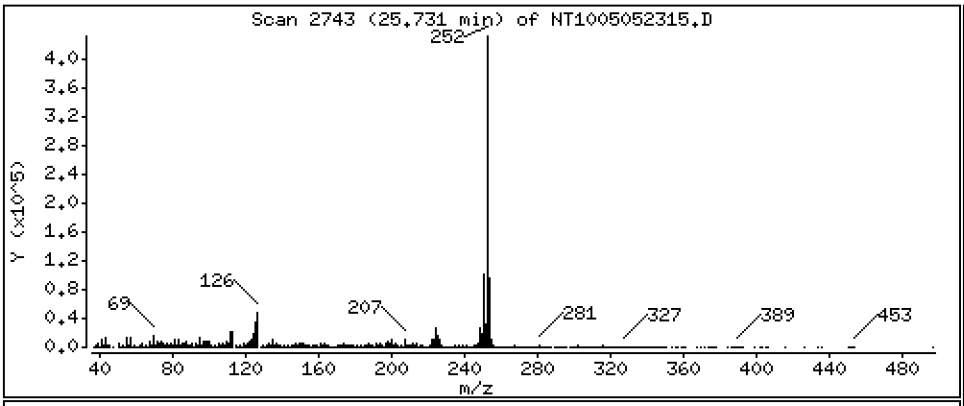
Operator: VTS

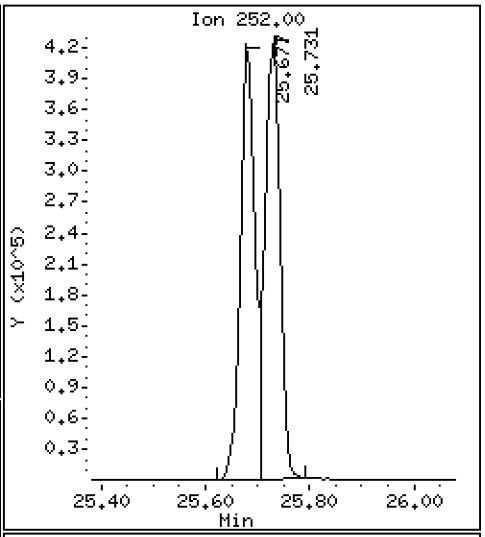
Column phase: ZB-5msi

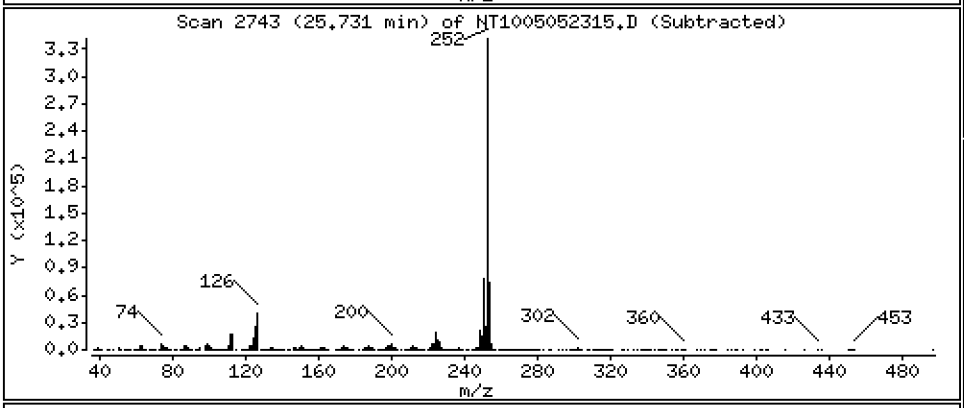
Column diameter: 0.25

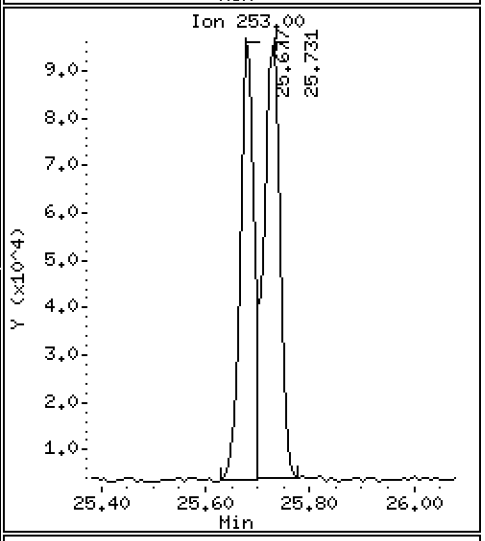
75 Benzo(k)fluoranthene

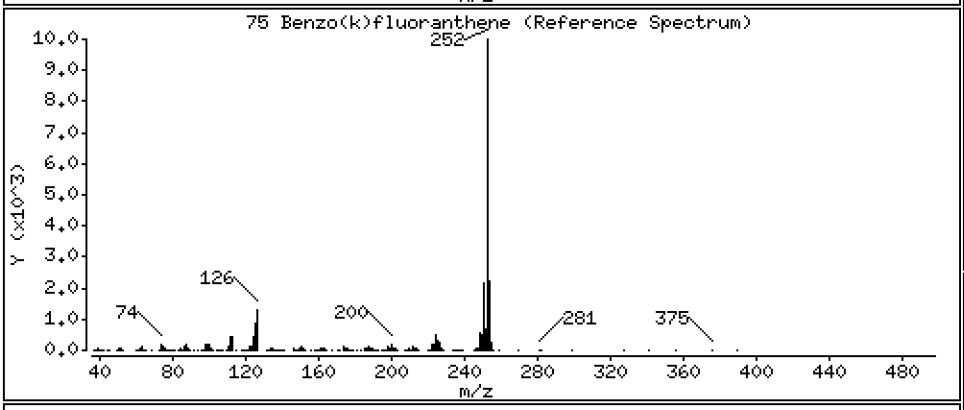
Concentration: 4.426 ug/mL

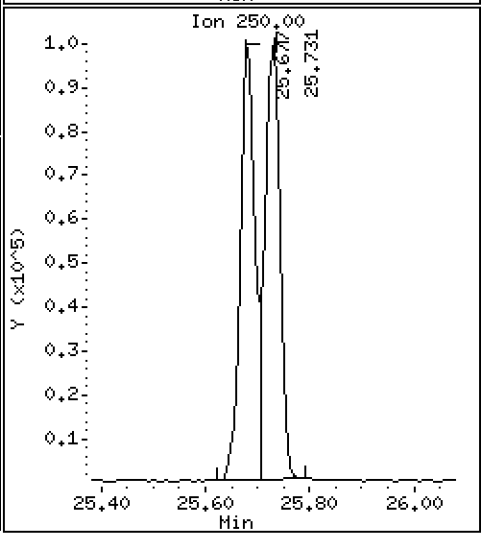


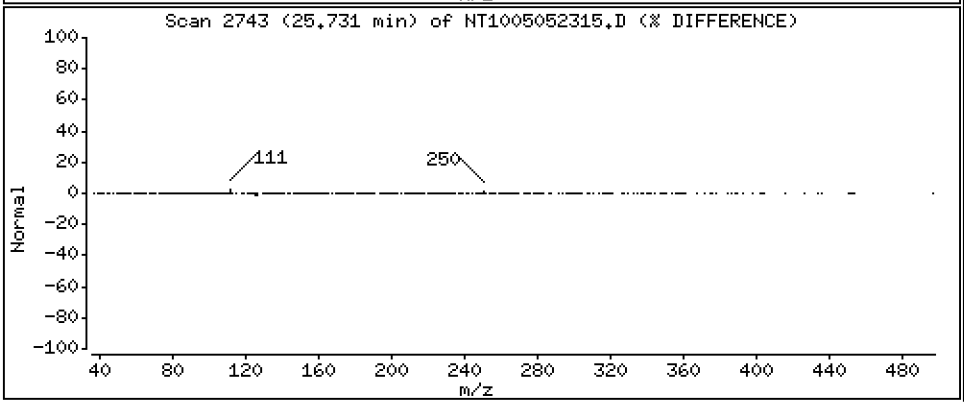












Date : 05-MAY-2023 19:50

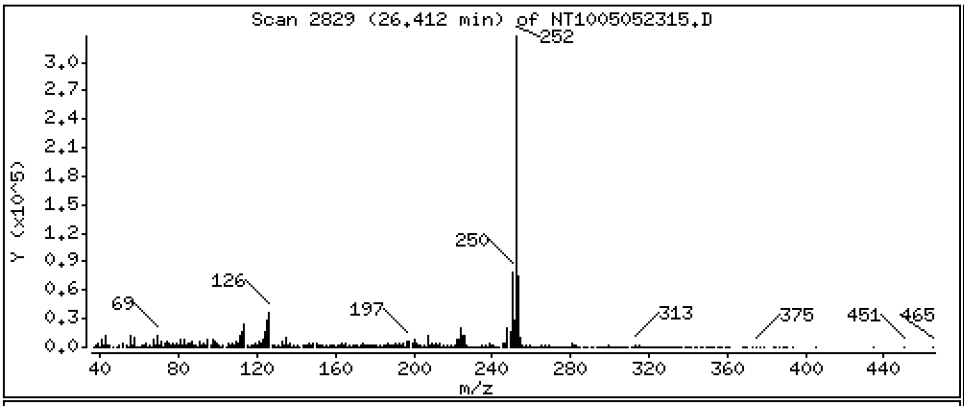
Client ID: Instrument: nt10.i

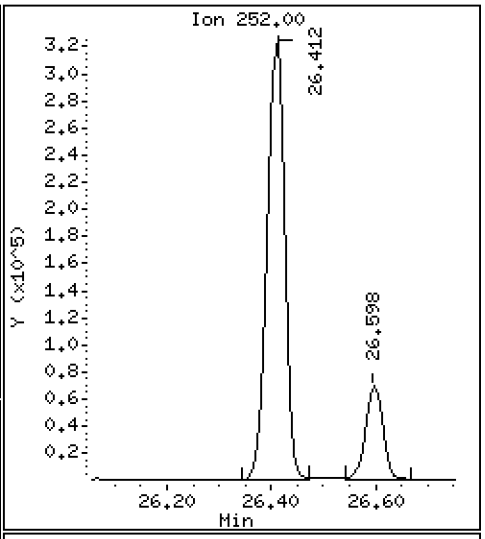
Sample Info: SLE0101-CCV1

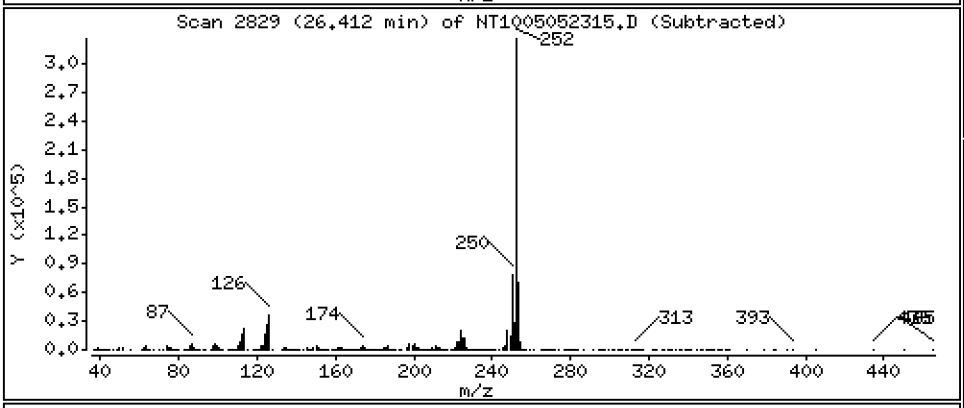
Operator: VTS

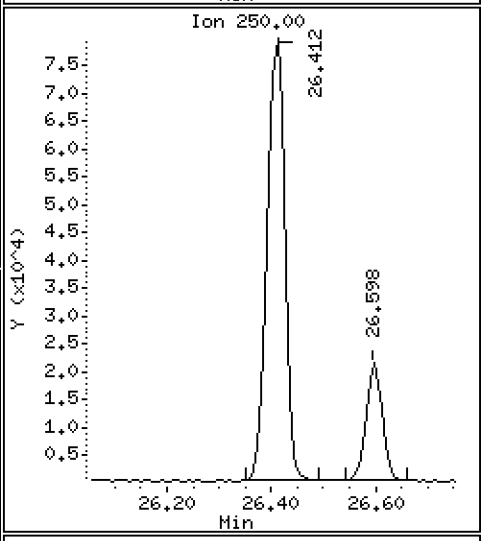
Column phase: ZB-5msi Column diameter: 0.25

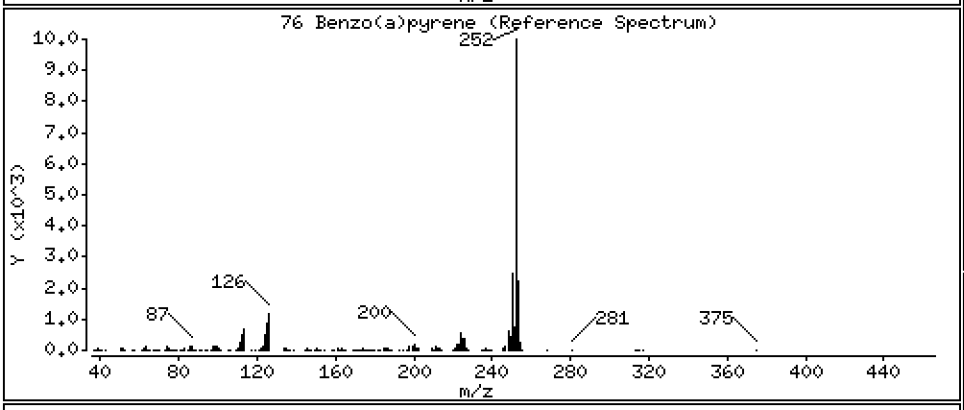
76 Benzo(a)pyrene Concentration: 4.623 ug/mL

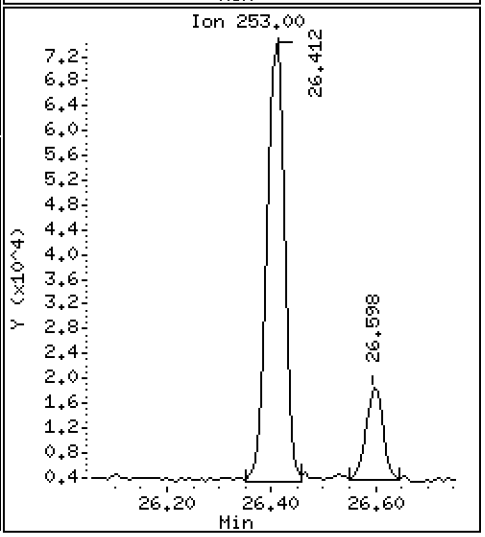


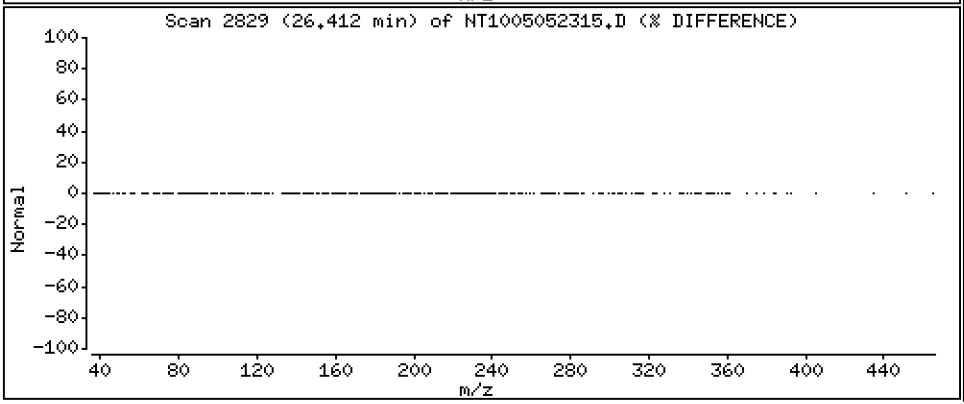












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

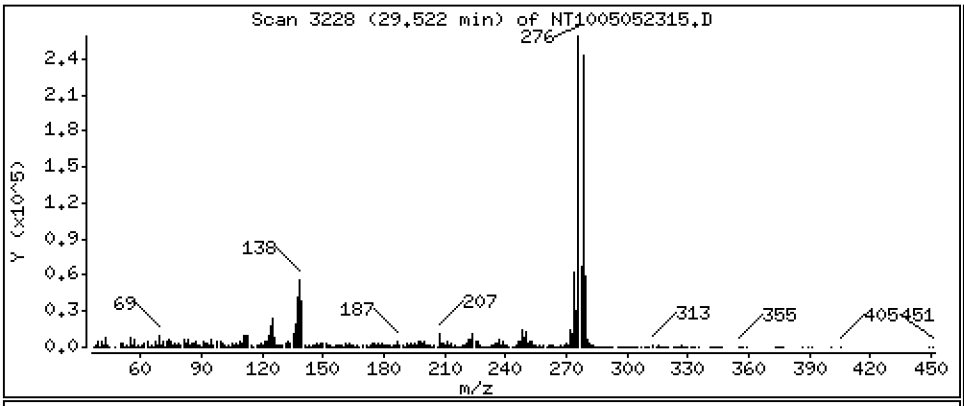
Operator: VTS

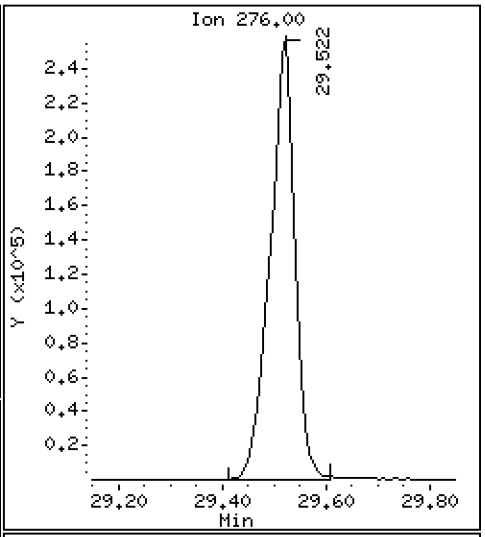
Column phase: ZB-5msi

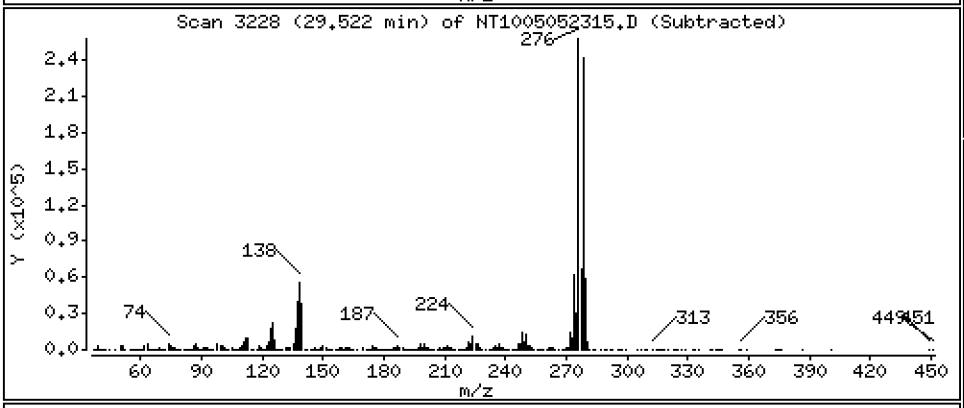
Column diameter: 0.25

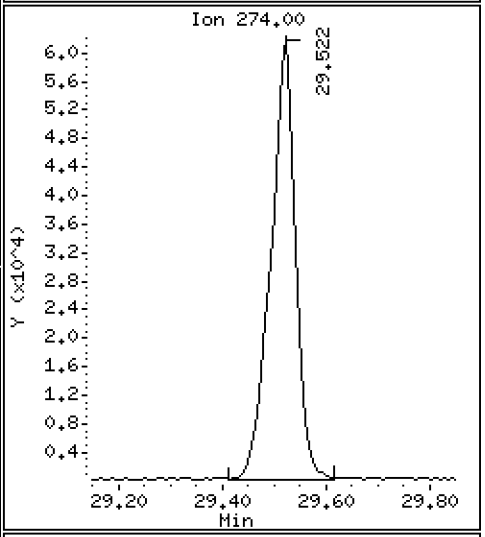
78 Indeno(1,2,3-cd)pyrene

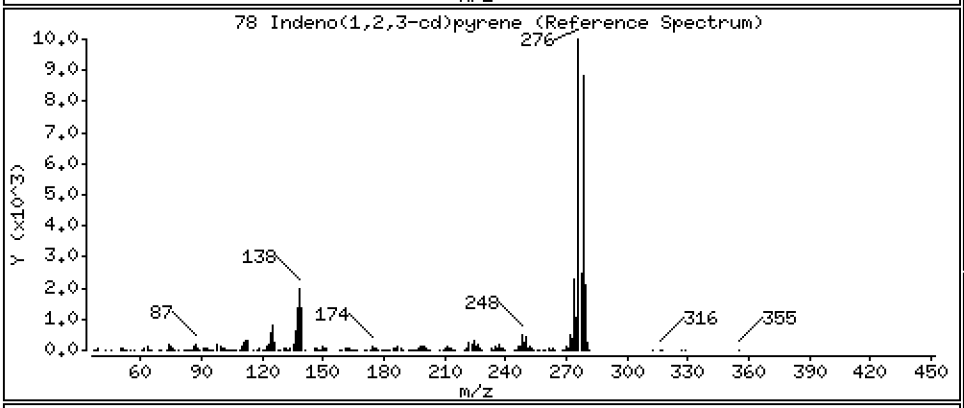
Concentration: 4.527 ug/mL

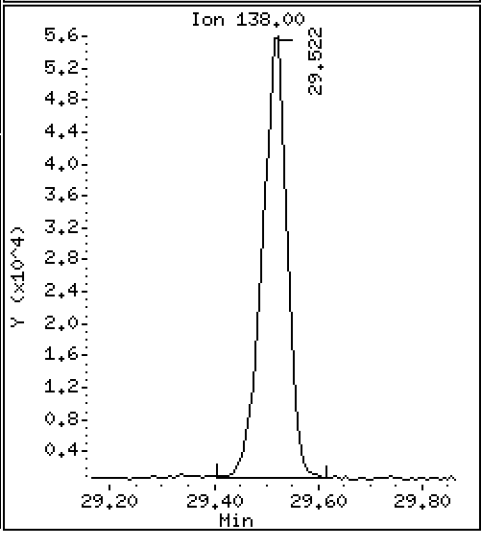


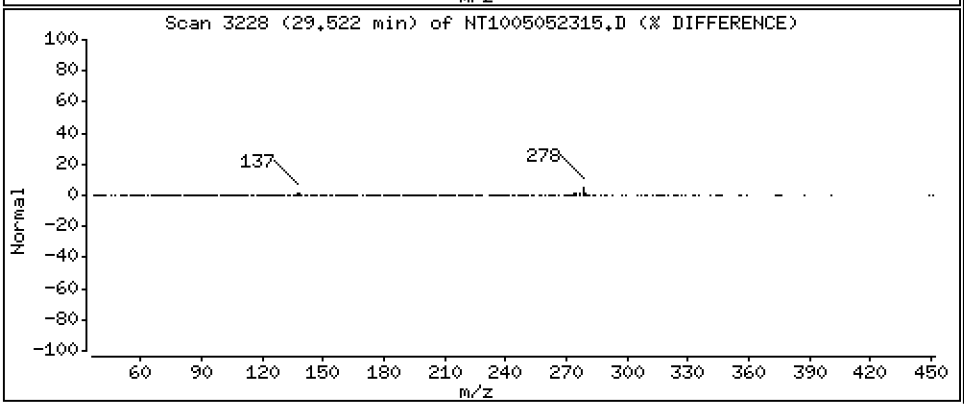












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

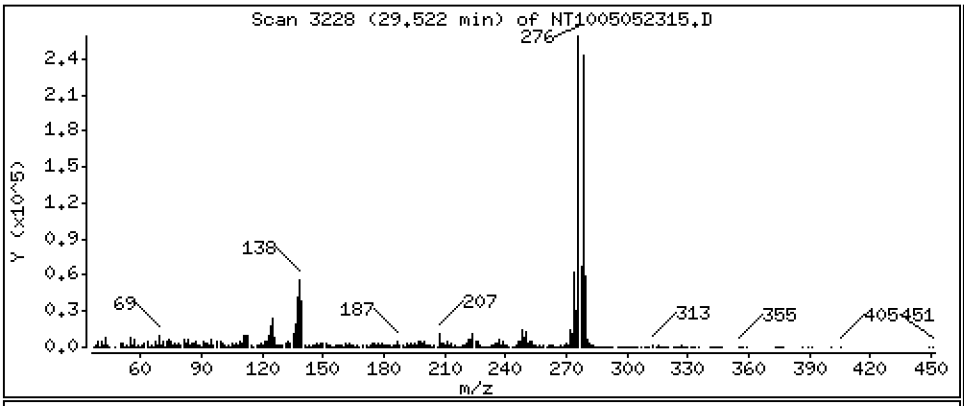
Operator: VTS

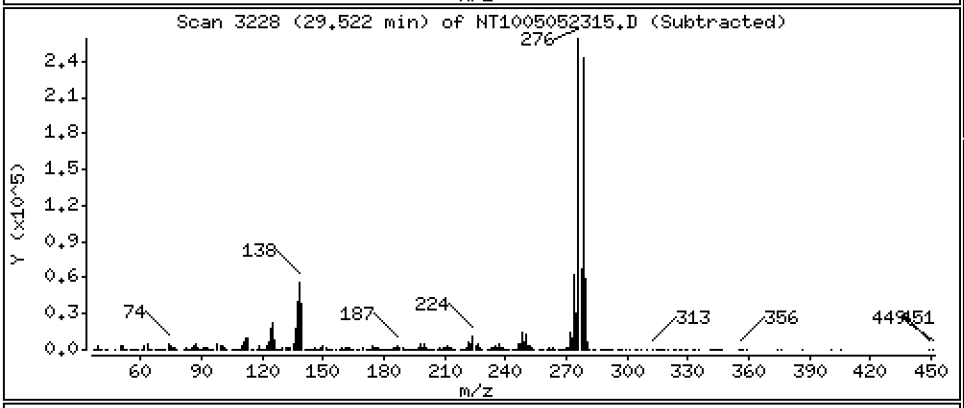
Column phase: ZB-5msi

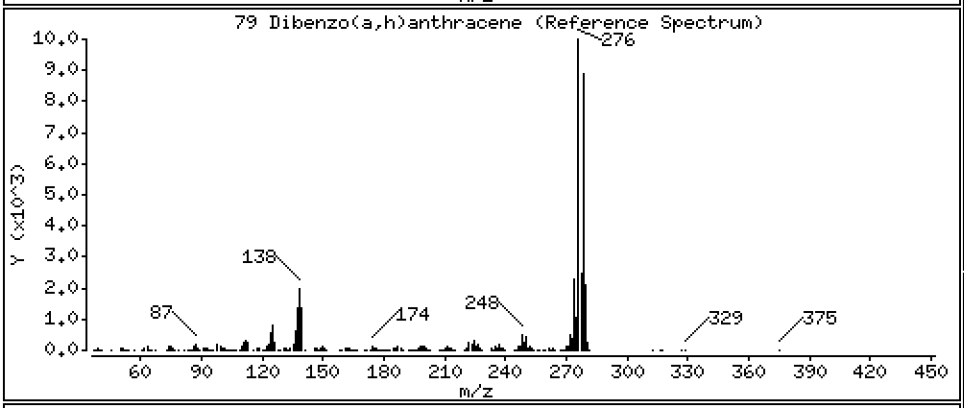
Column diameter: 0.25

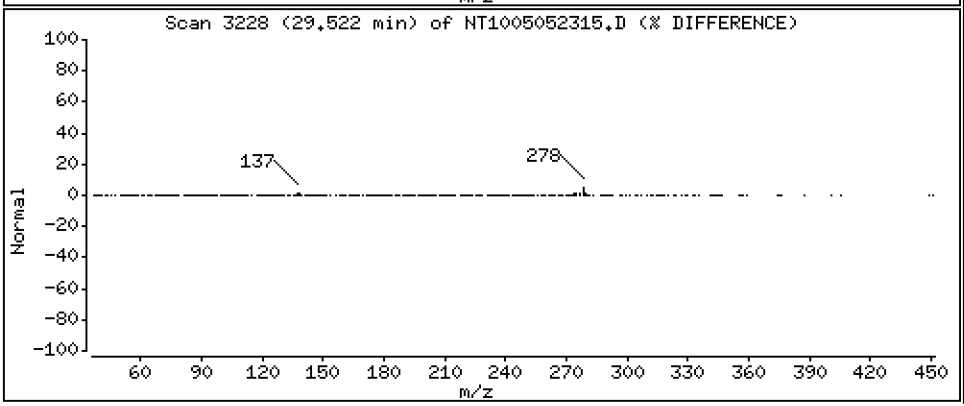
79 Dibenzo(a,h)anthracene

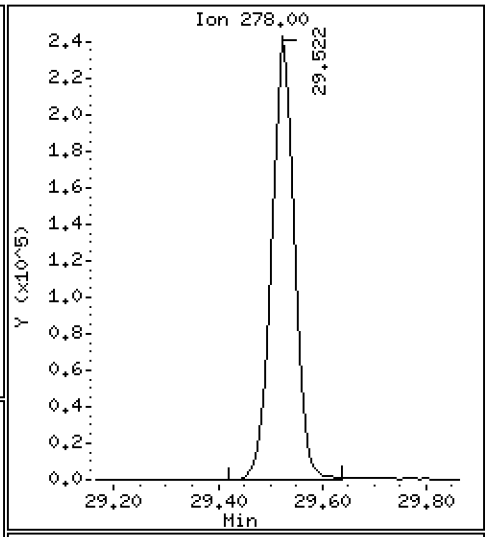
Concentration: 4.601 ug/mL

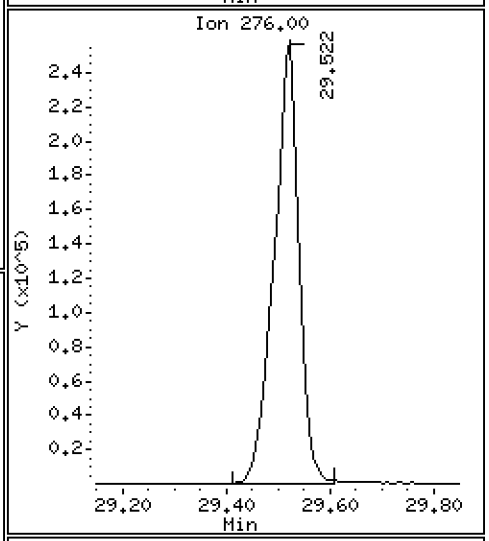


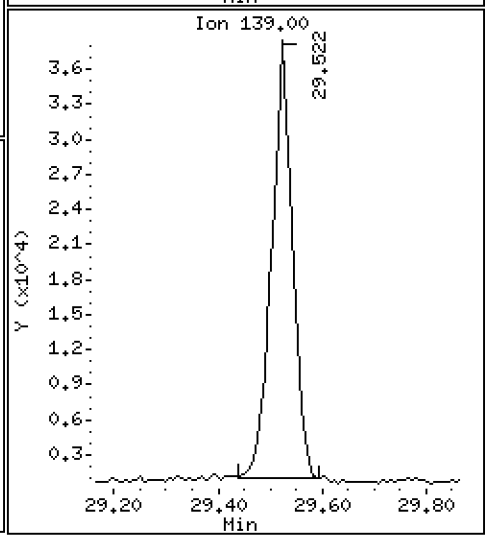












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

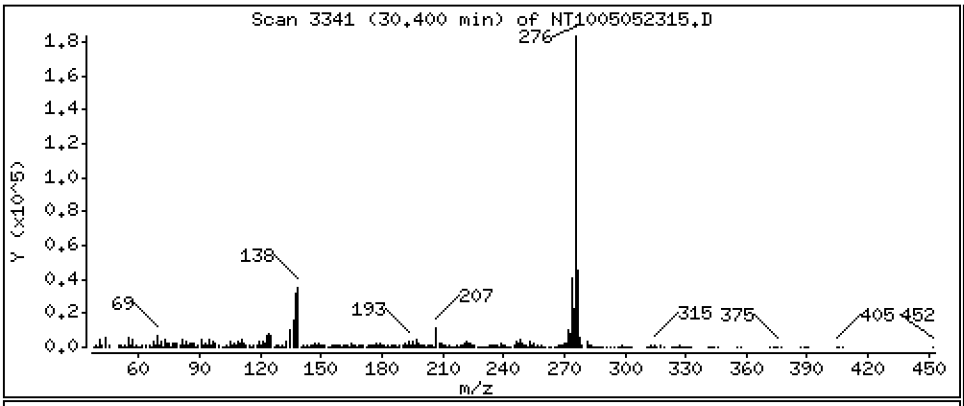
Operator: VTS

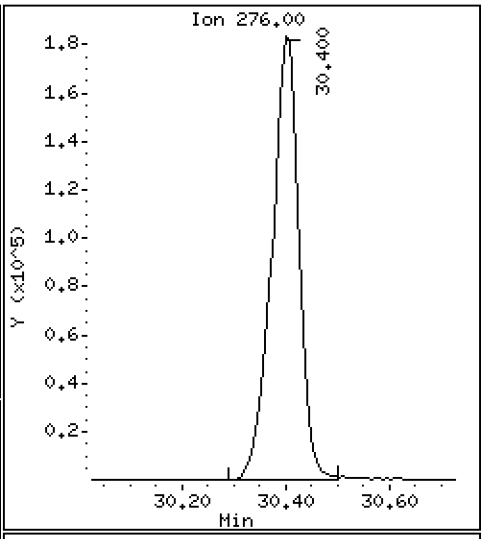
Column phase: ZB-5msi

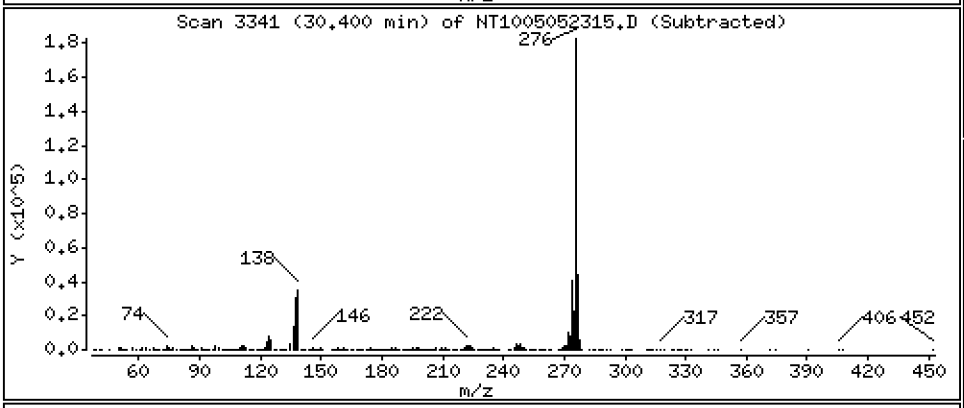
Column diameter: 0.25

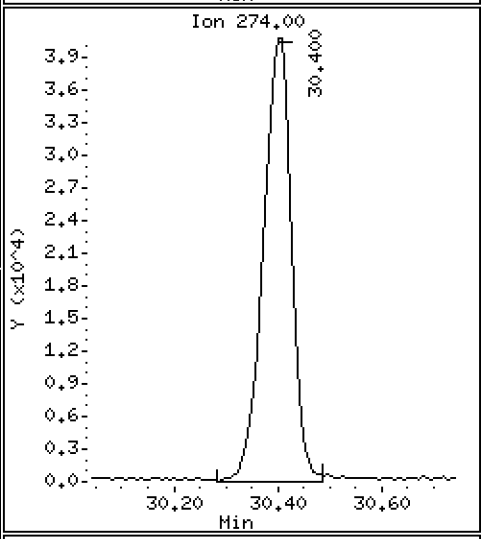
80 Benzo(g,h,i)perylene

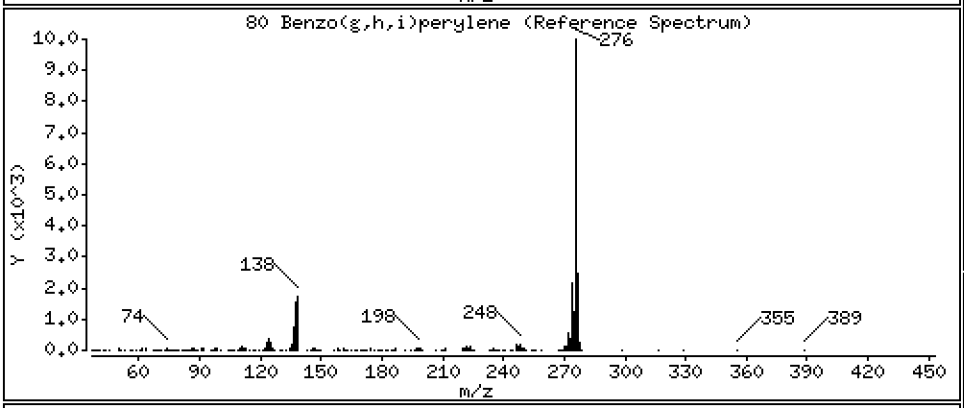
Concentration: 4.469 ug/mL

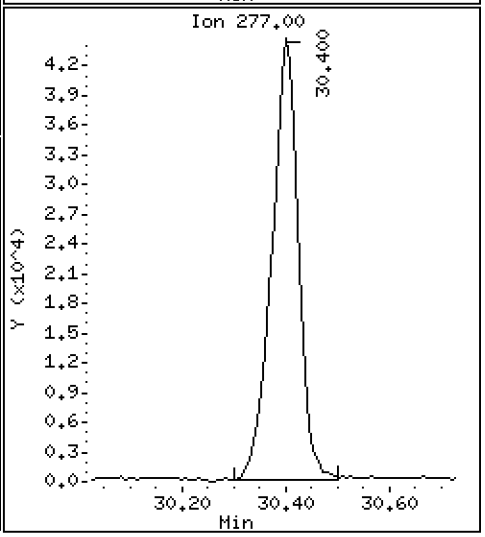


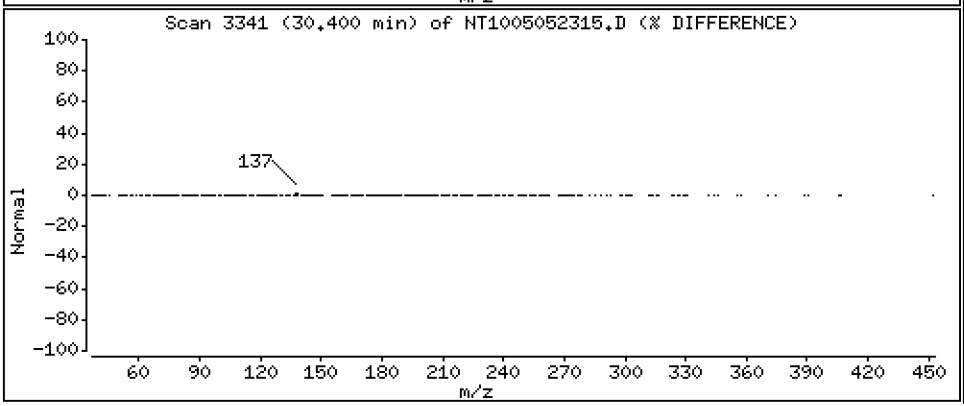












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

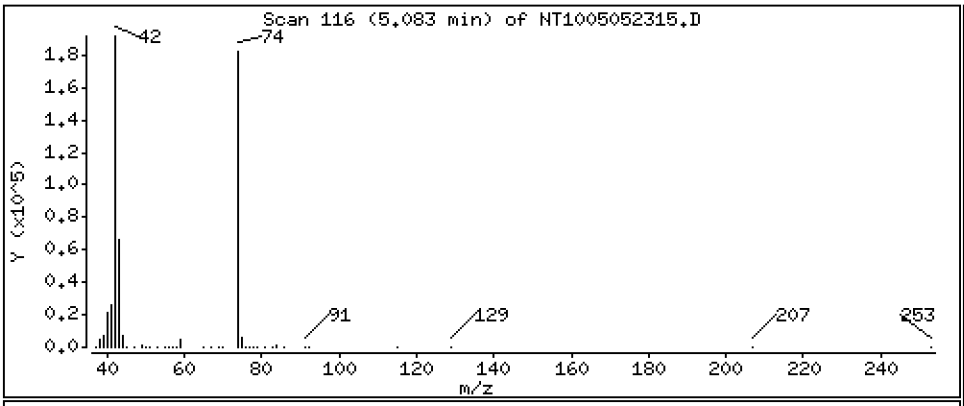
Operator: VTS

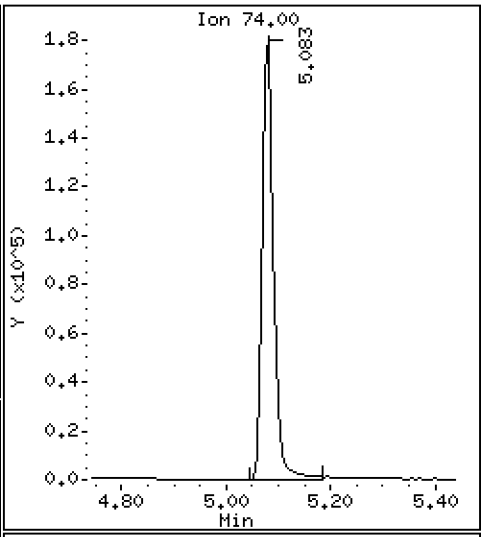
Column phase: ZB-5msi

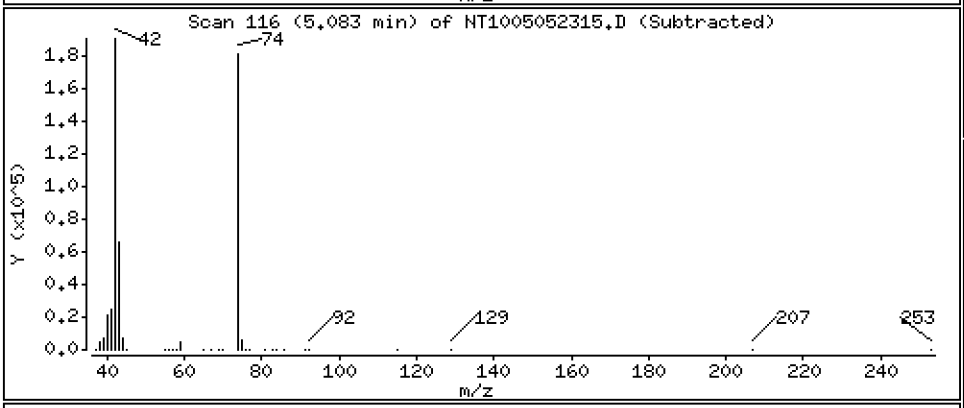
Column diameter: 0.25

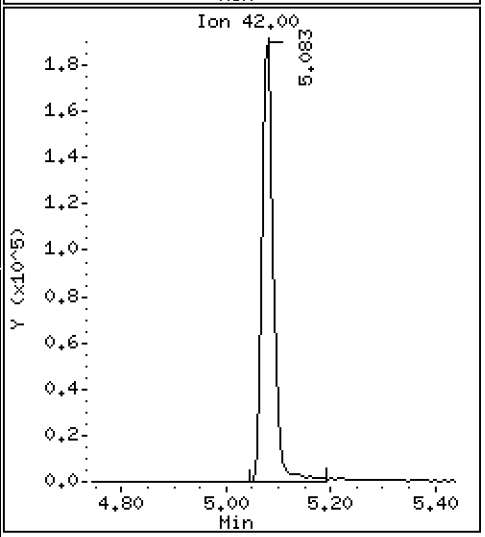
90 N-Nitrosodimethylamine

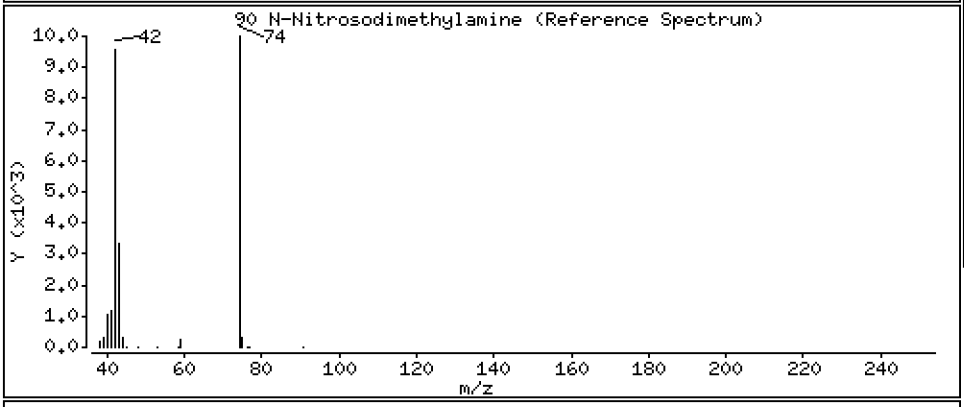
Concentration: 8.971 ug/mL

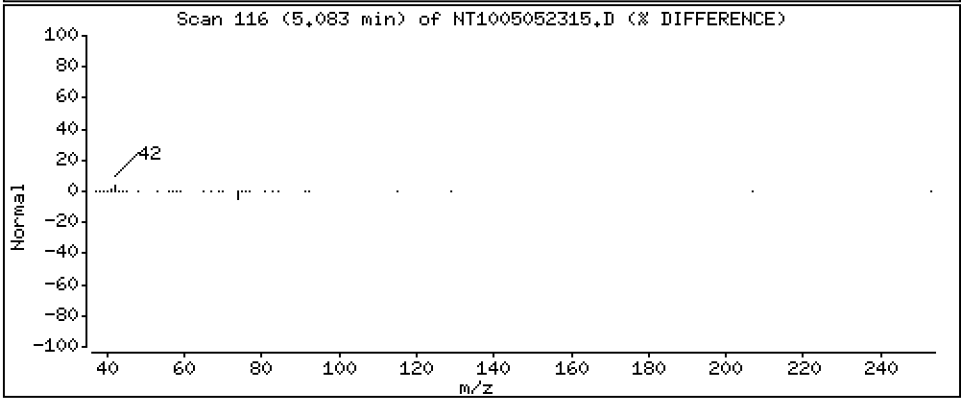












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

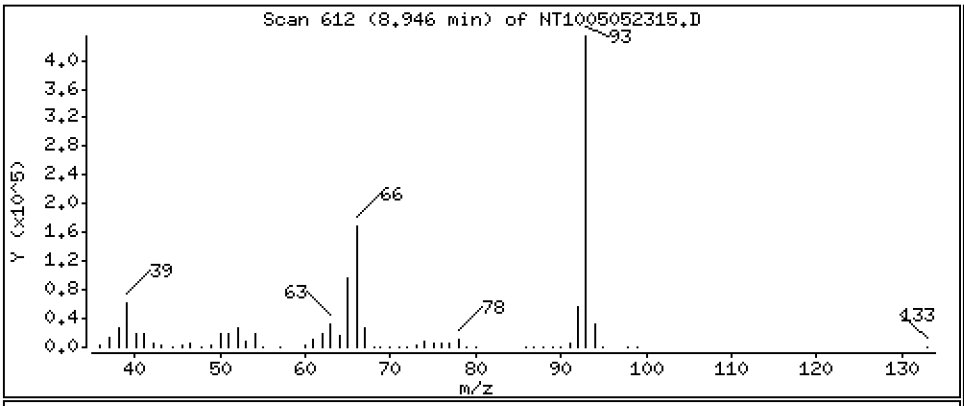
Operator: VTS

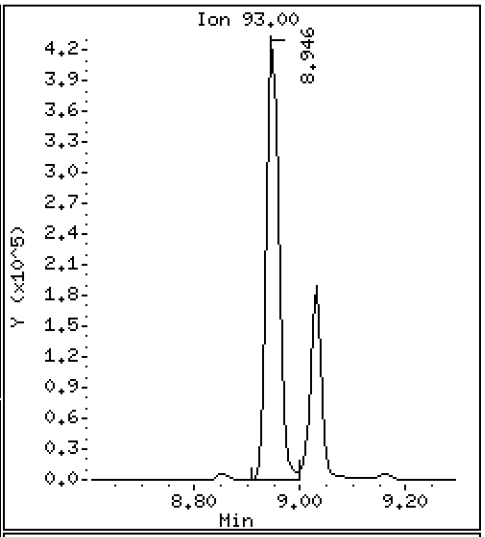
Column phase: ZB-5msi

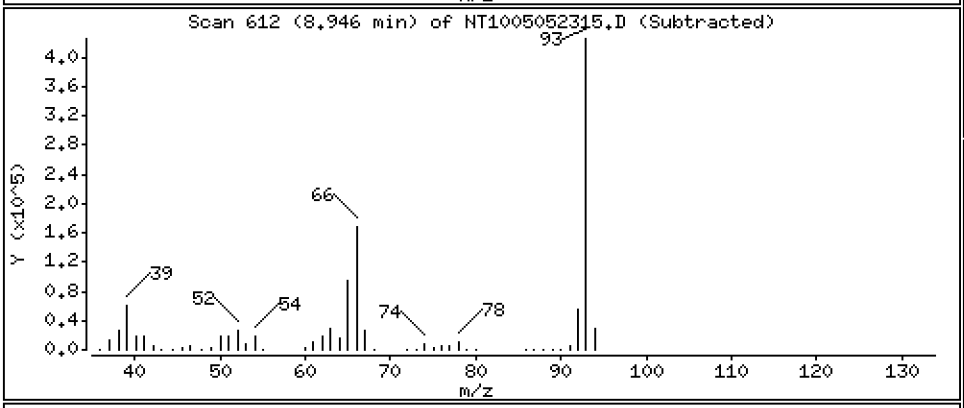
Column diameter: 0.25

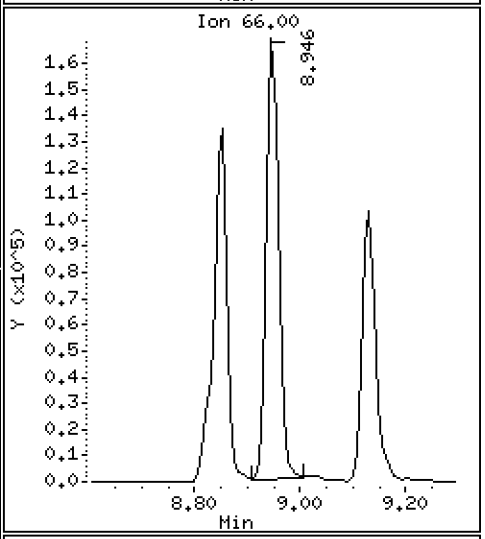
91 Aniline

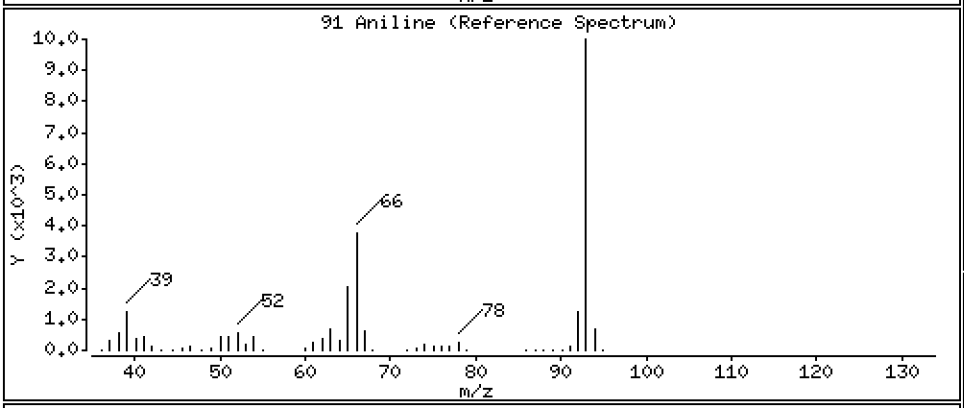
Concentration: 11.32 ug/mL

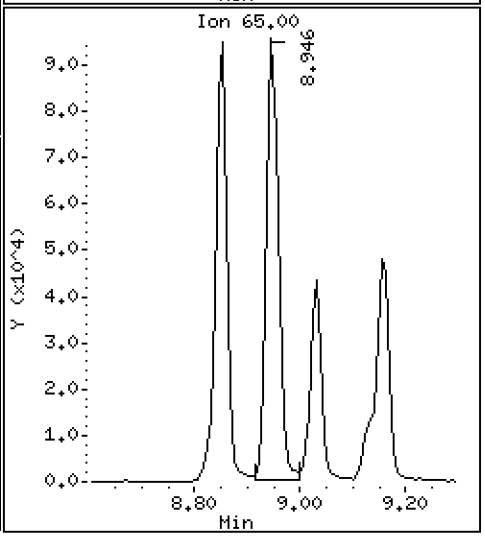


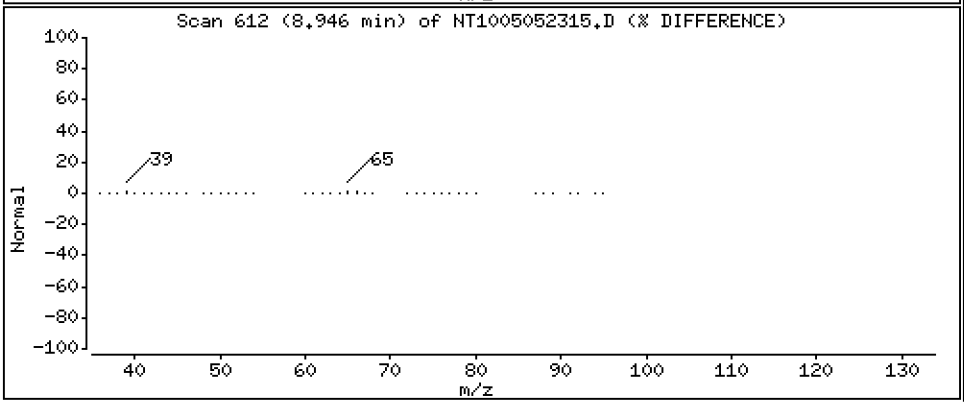












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

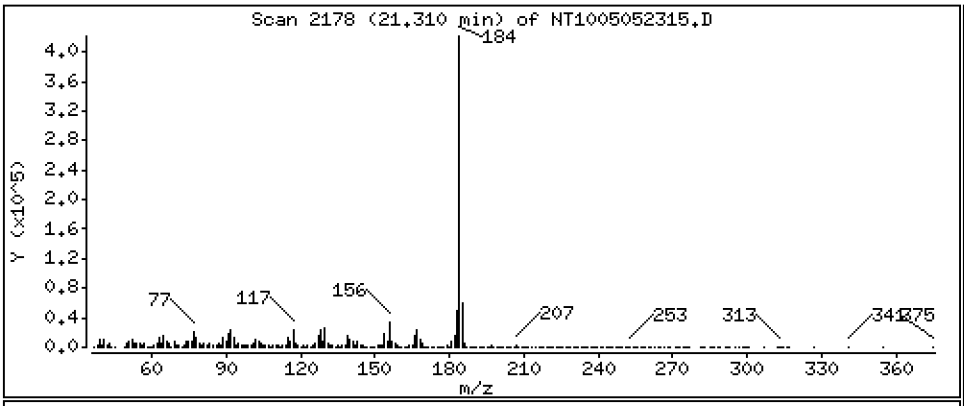
Operator: VTS

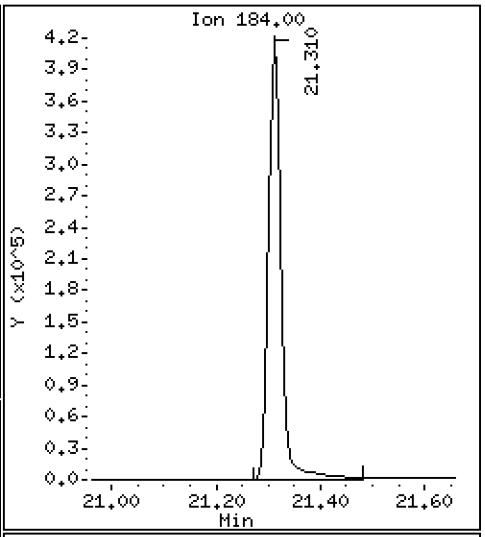
Column phase: ZB-5msi

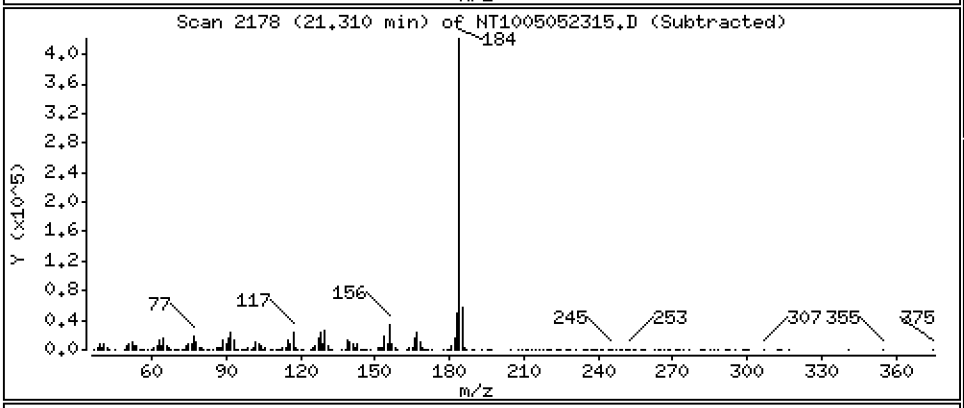
Column diameter: 0.25

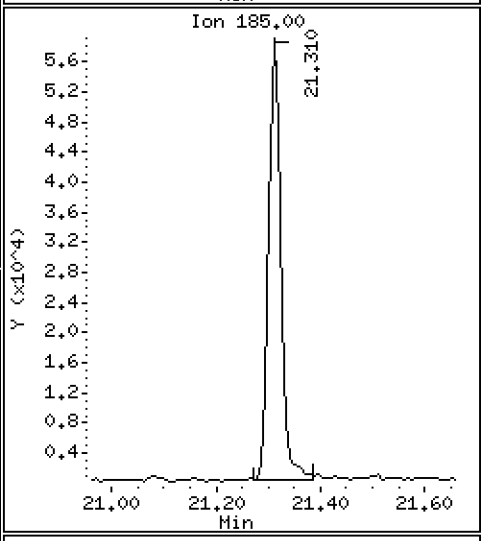
93 Benzidine

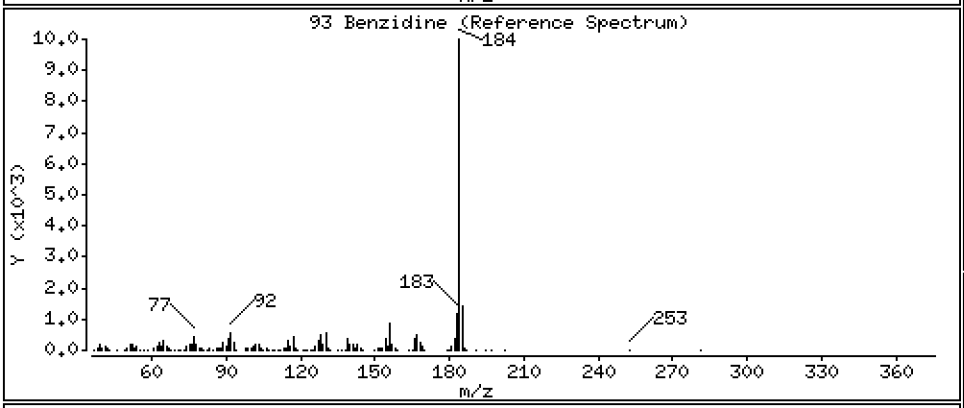
Concentration: 8.062 ug/mL

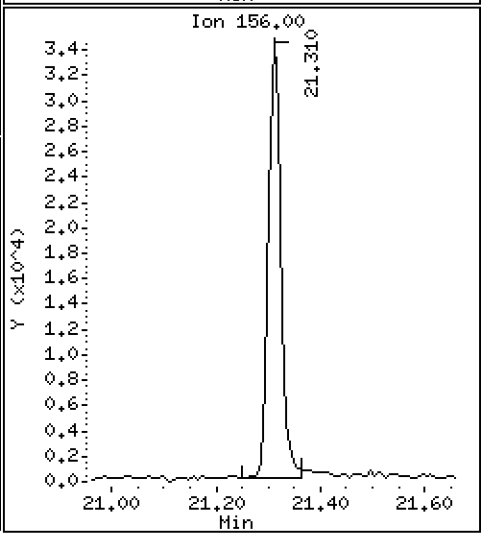


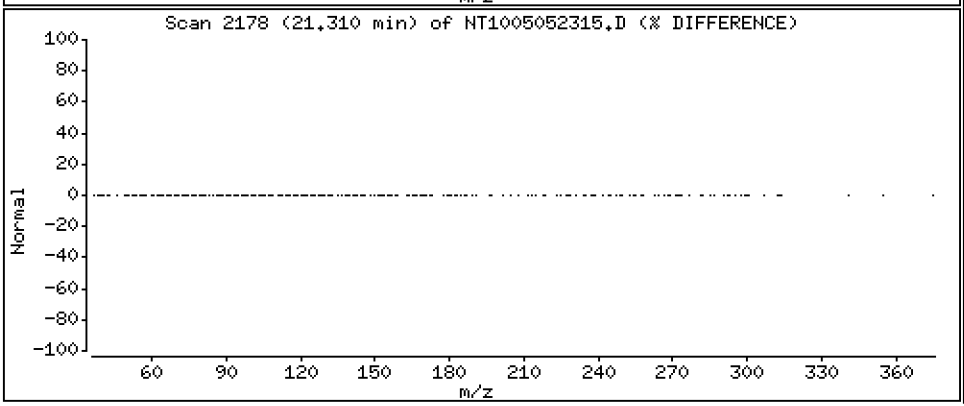












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

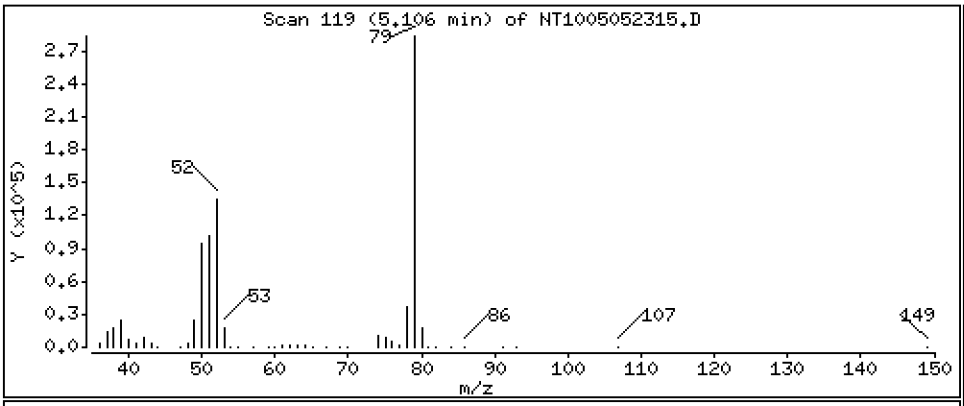
Operator: VTS

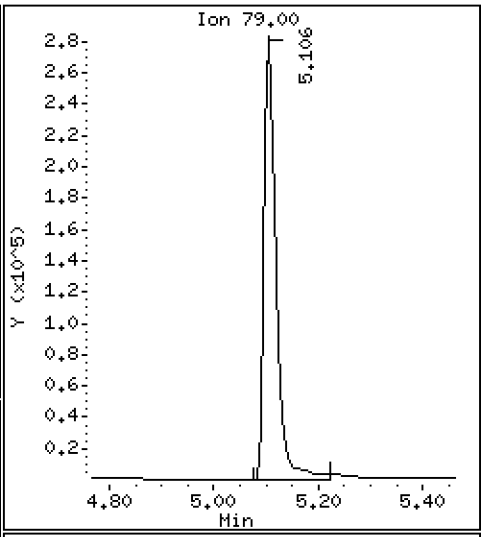
Column phase: ZB-5msi

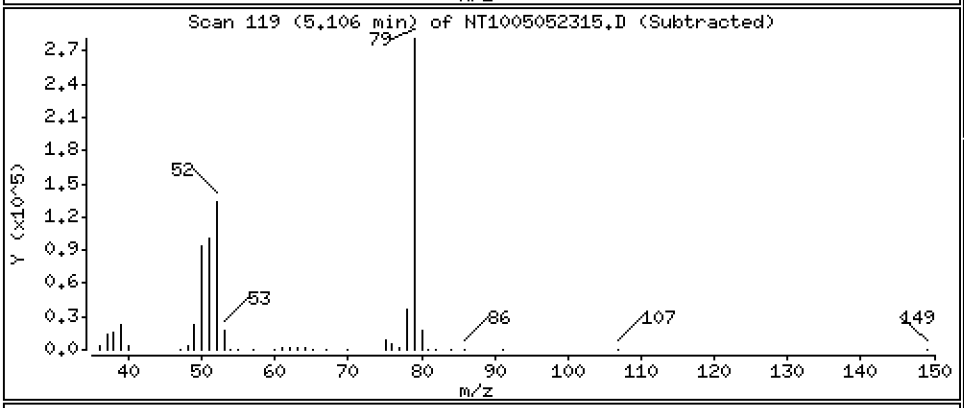
Column diameter: 0.25

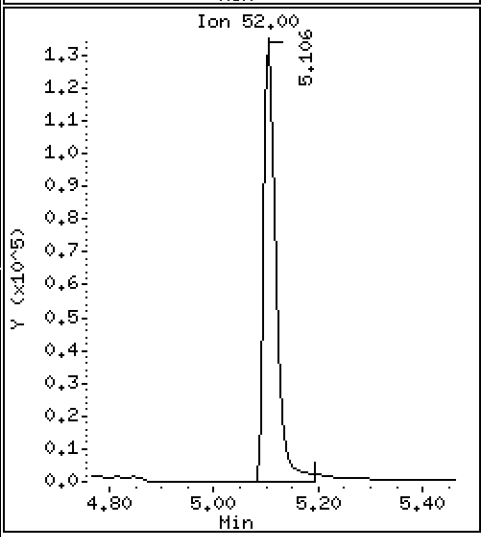
103 Pyridine

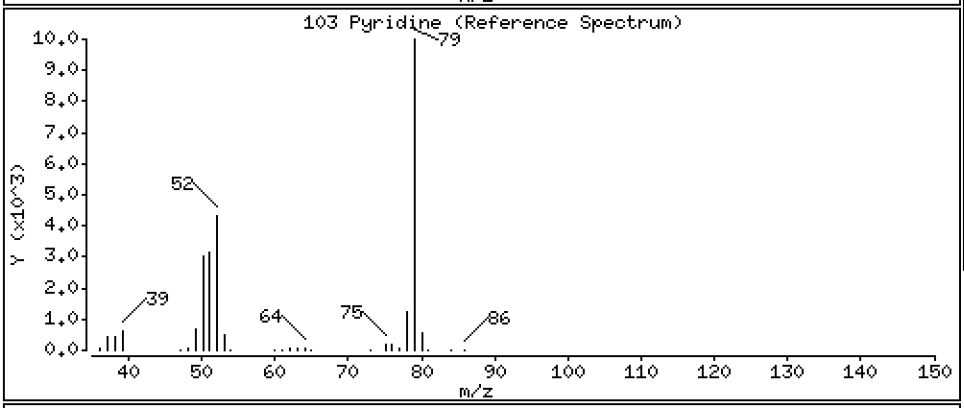
Concentration: 8.842 ug/mL

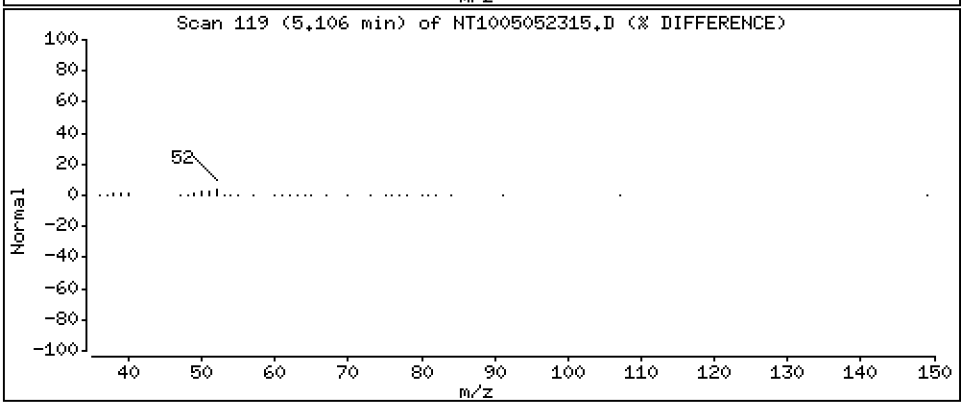












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

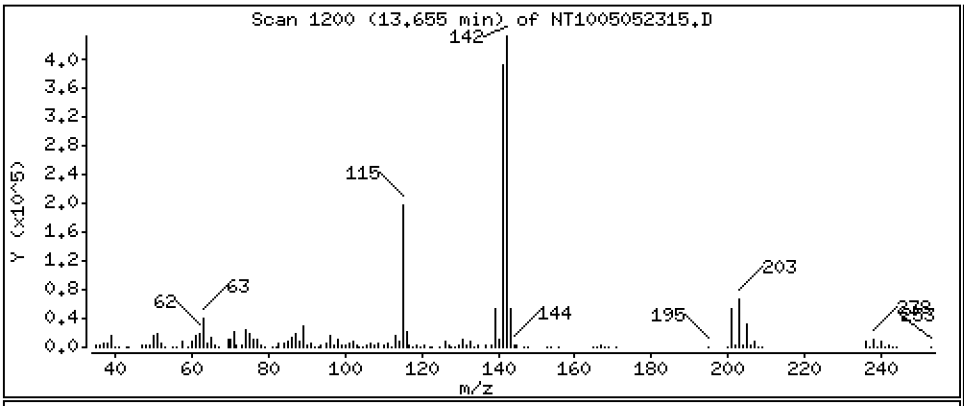
Operator: VTS

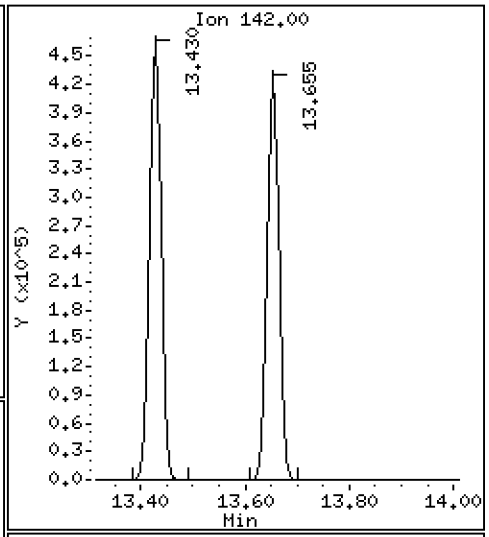
Column phase: ZB-5msi

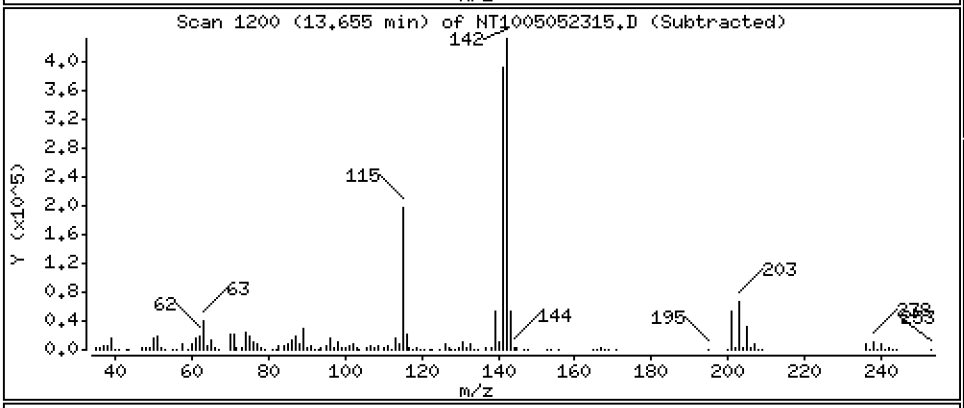
Column diameter: 0.25

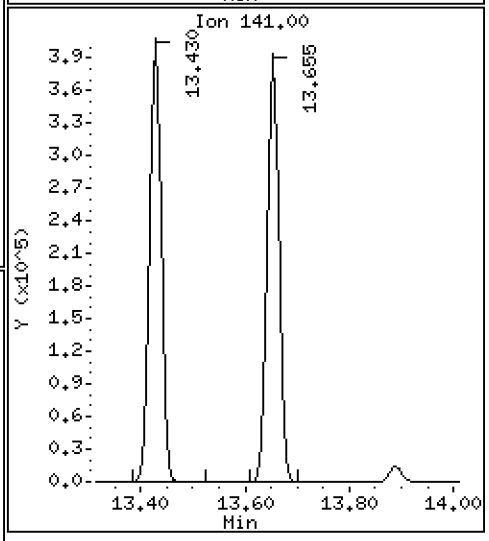
105 1-methylnaphthalene

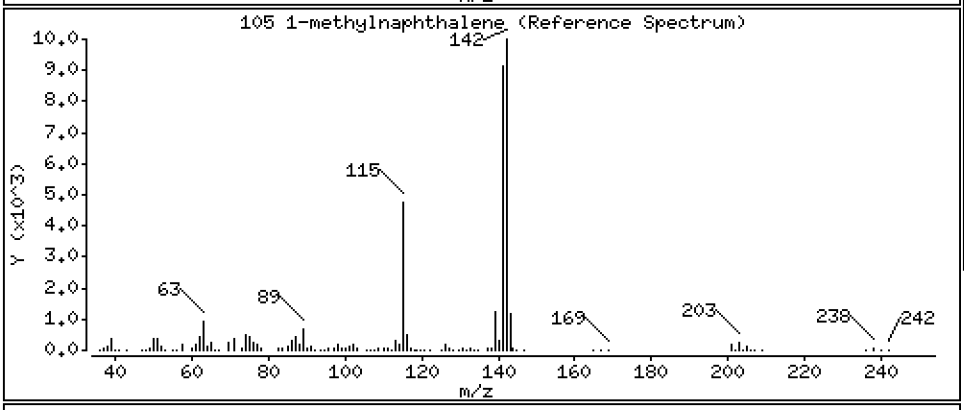
Concentration: 4.660 ug/mL

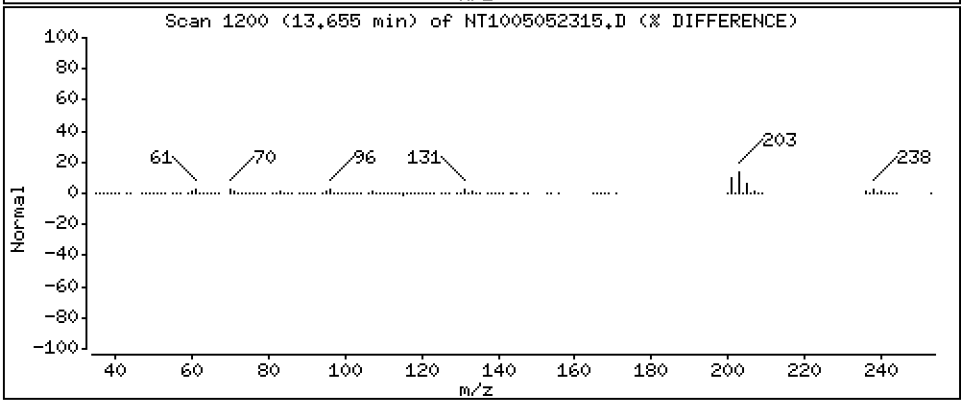












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

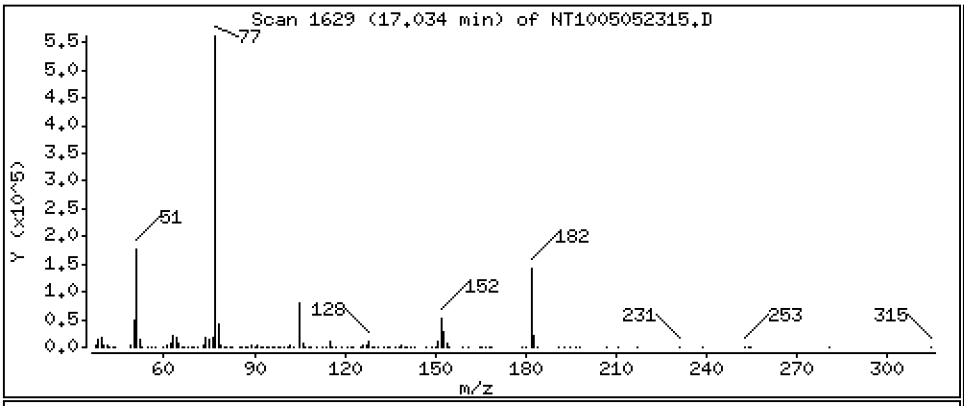
Operator: VTS

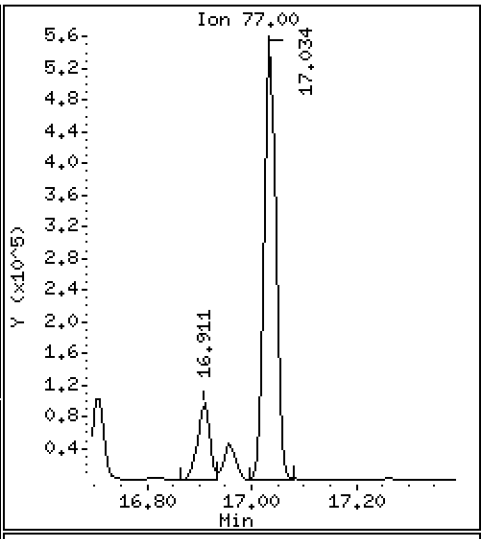
Column phase: ZB-5msi

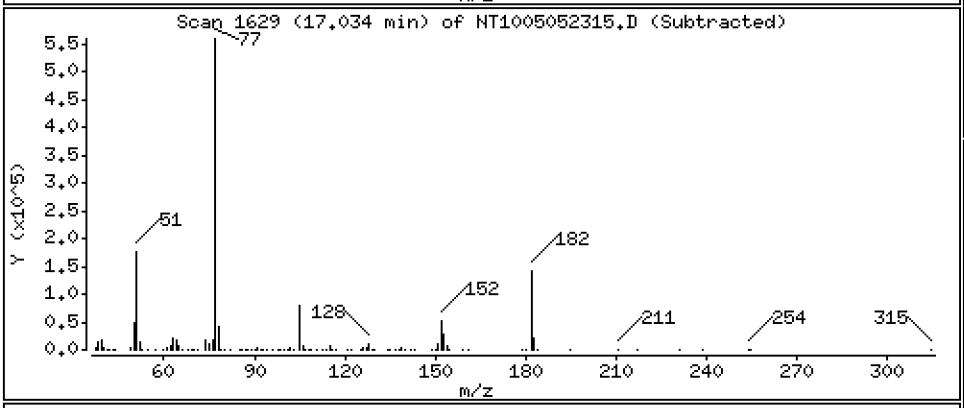
Column diameter: 0.25

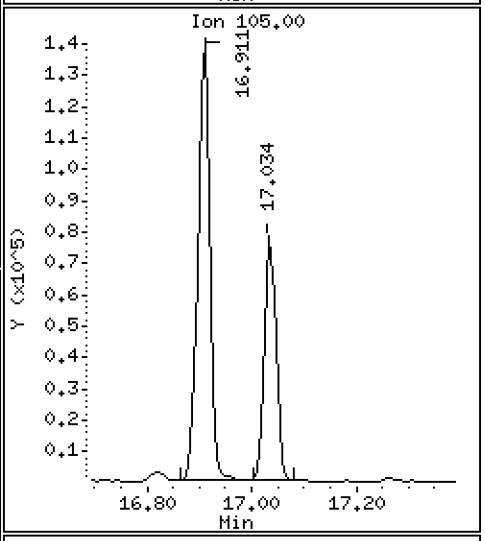
111 Azobenzene (1,2-DP-Hydrazine)

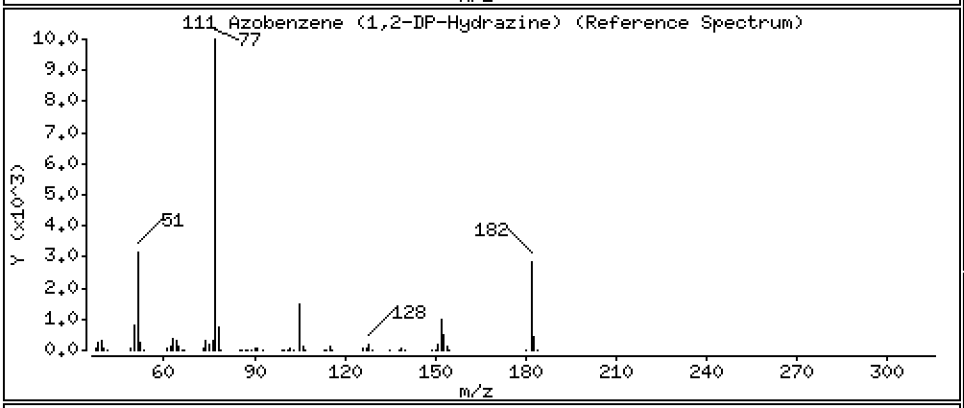
Concentration: 5.174 ug/mL

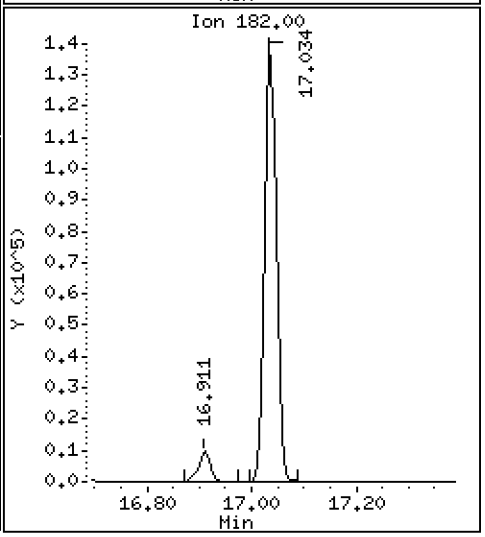


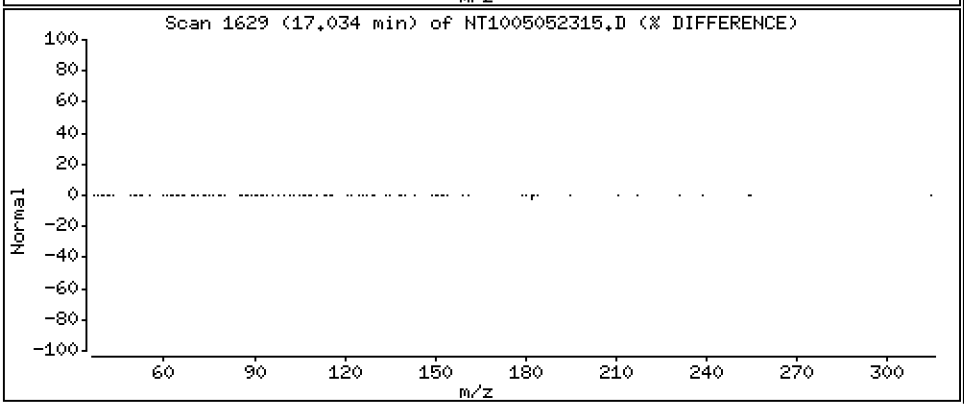












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Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

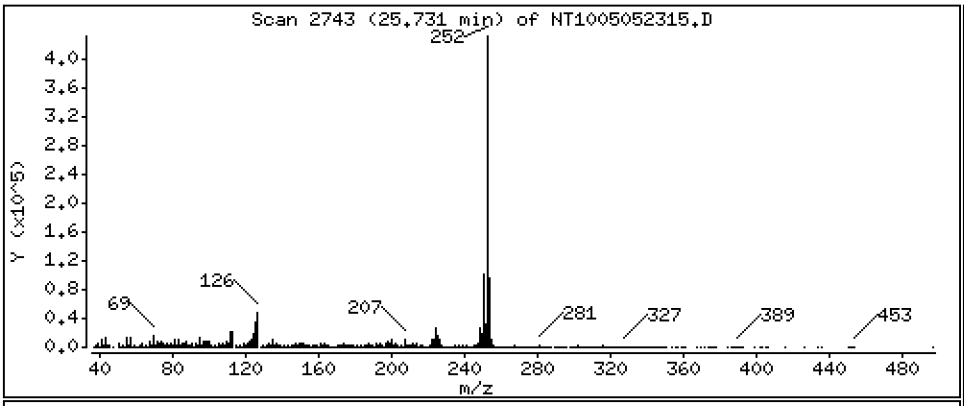
Operator: VTS

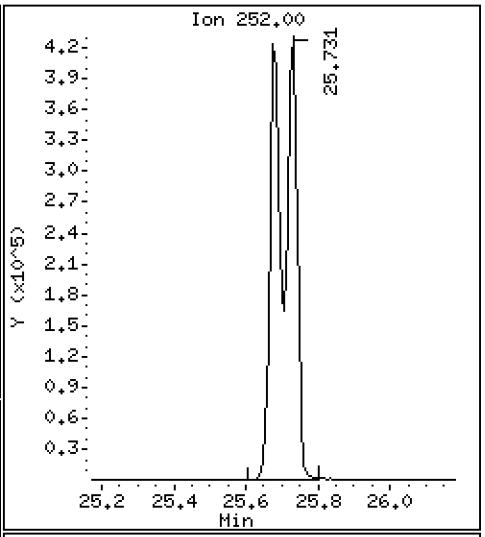
Column phase: ZB-5msi

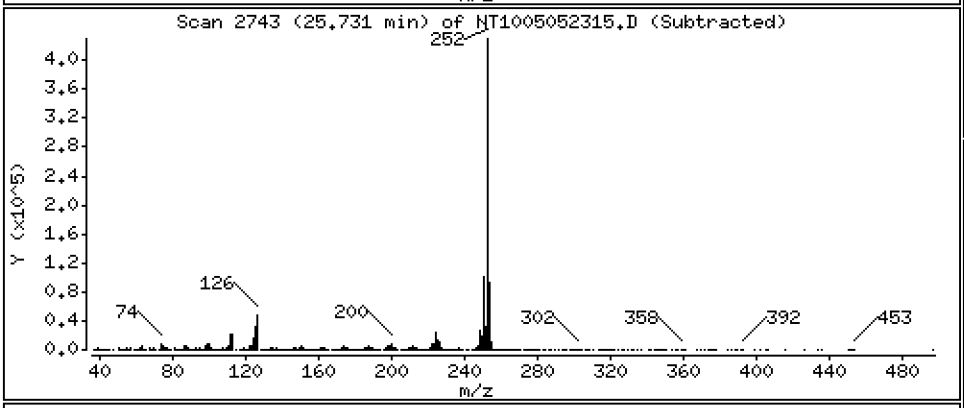
Column diameter: 0.25

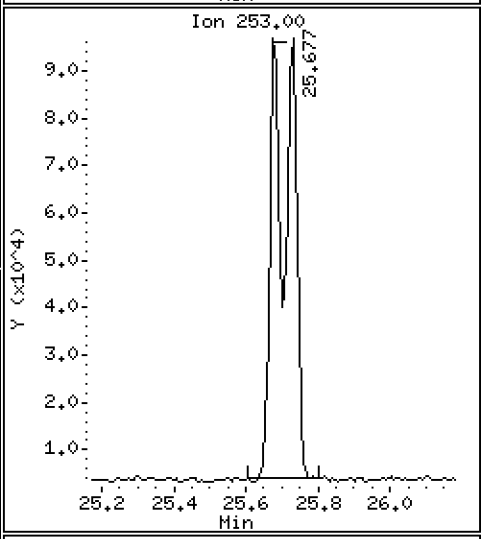
187 Total Benzofluoranthenes

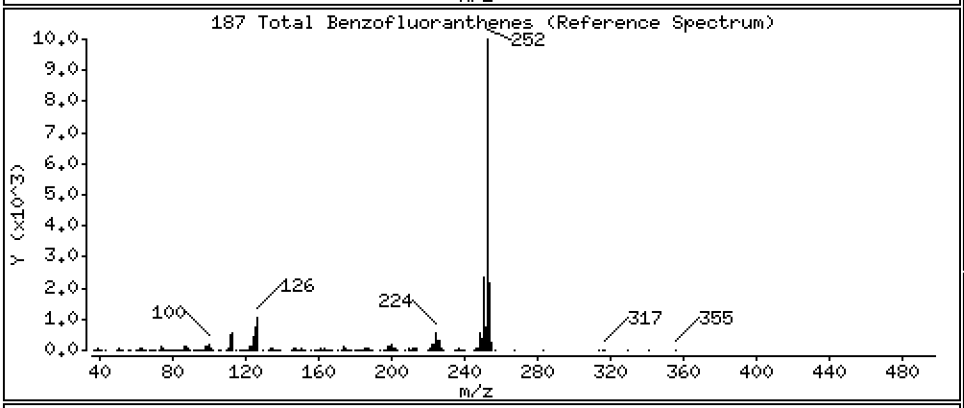
Concentration: 9.087 ug/mL

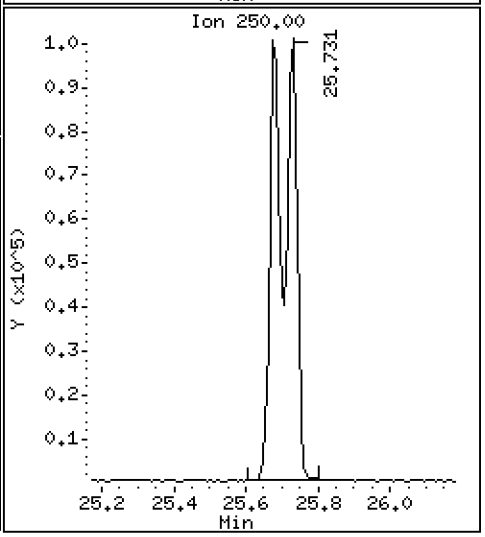


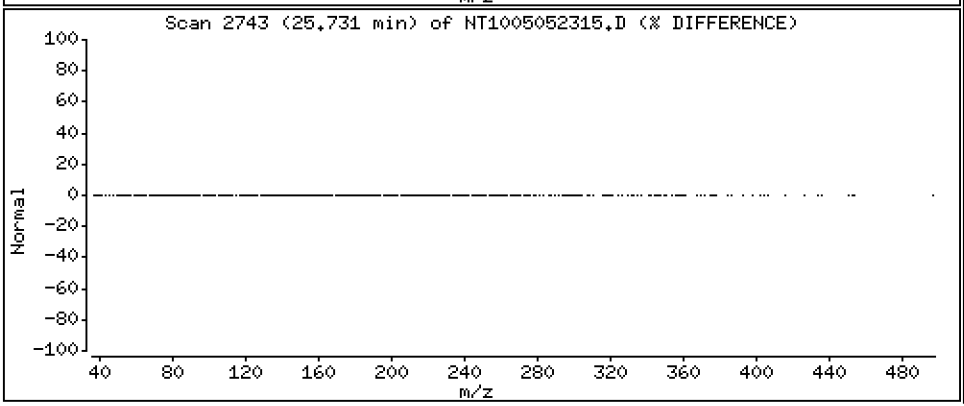












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D

Date : 05-MAY-2023 19:50

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-CCV1

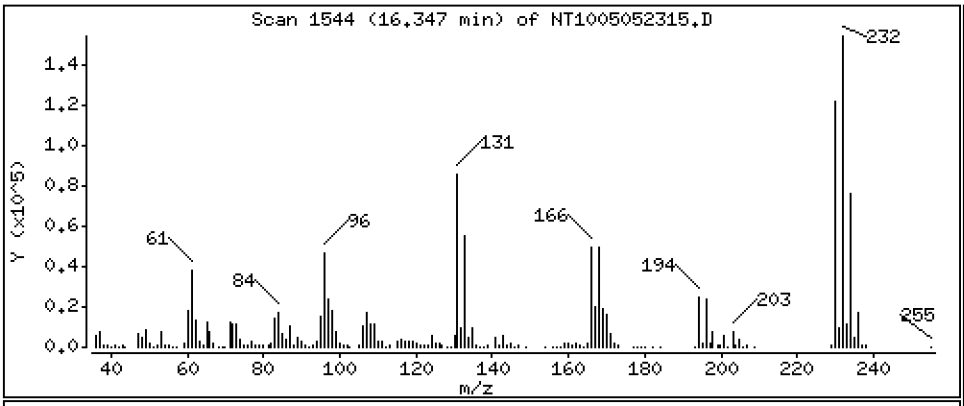
Operator: VTS

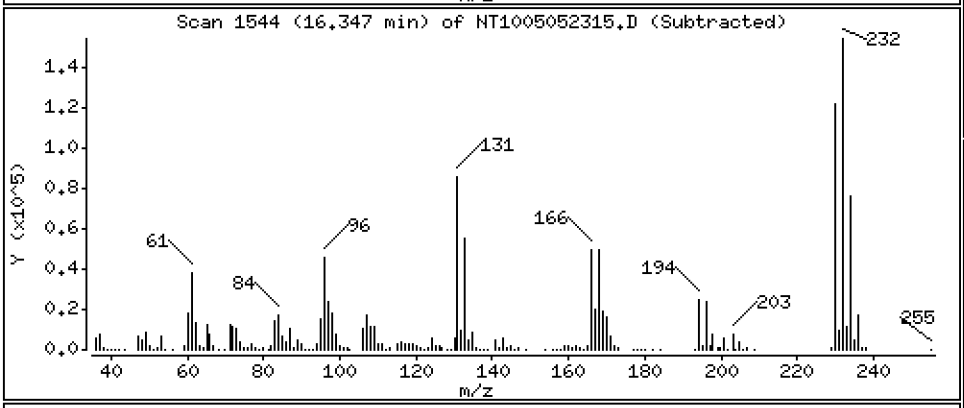
Column phase: ZB-5msi

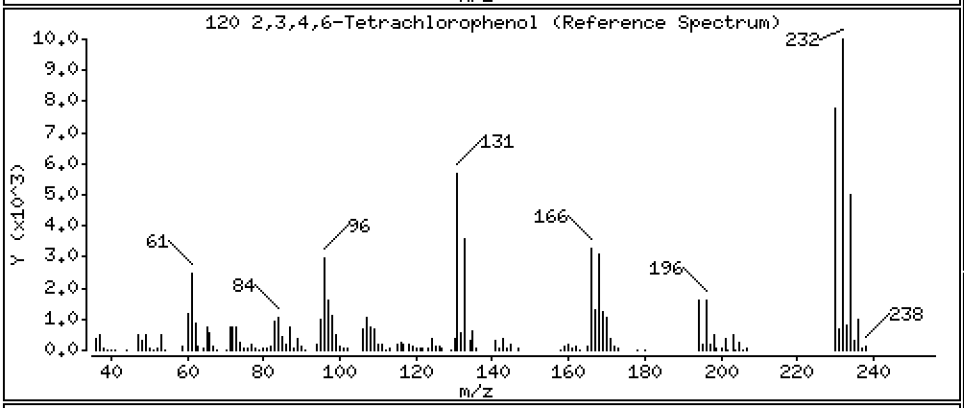
Column diameter: 0.25

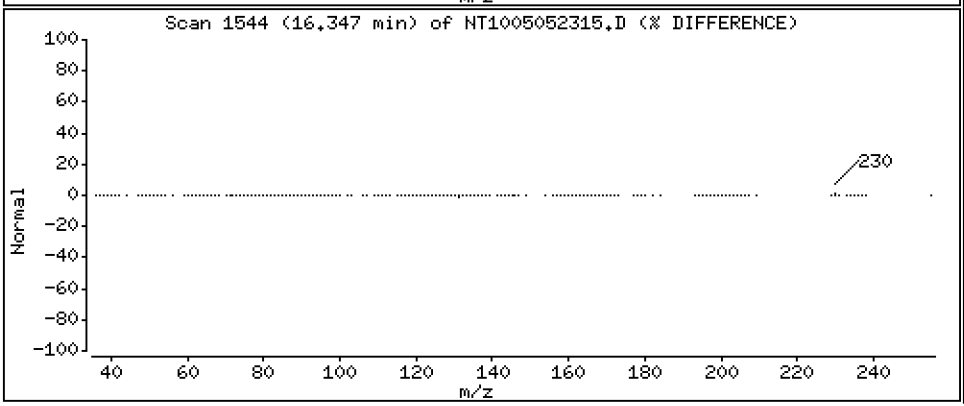
120 2,3,4,6-Tetrachlorophenol

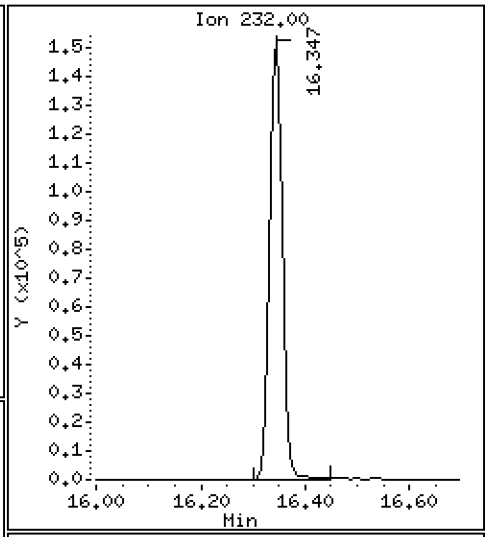
Concentration: 4.652 ug/mL

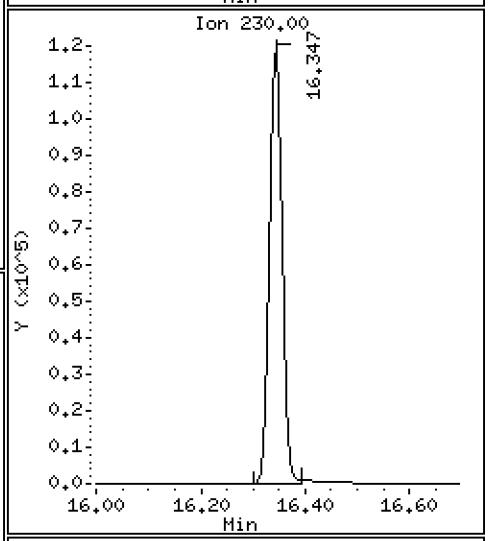


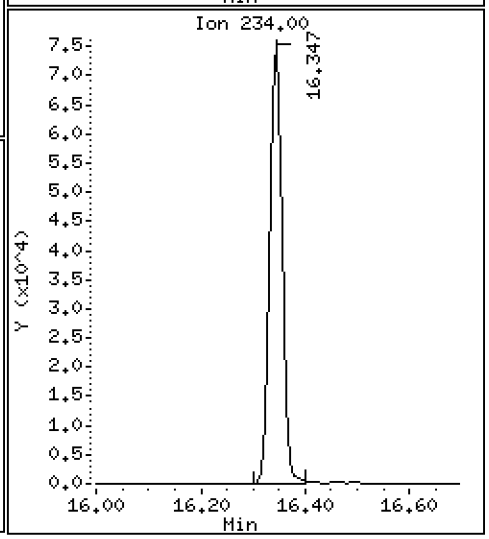












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230505.b\NT1005052315.D
Lab Smp Id: SLE0101-CCV1
Inj Date : 05-MAY-2023 19:50
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0101-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.246	7.253	(1.000)	413270	7.31789	7.318	
$	2 Phenol-d5	99	8.830	8.830	(1.000)	543376	7.98066	7.981	
	3 Phenol	94	8.853	8.853	(1.000)	396614	5.44798	5.448	
$	5 2-Chlorophenol-d4	132	9.131	9.139	(1.000)	504261	7.72819	7.728	
	4 Bis(2-Chloroethyl)ether	93	9.030	9.038	(1.000)	280510	5.32506	5.325	
	6 2-Chlorophenol	128	9.154	9.162	(1.000)	334834	5.21601	5.216	
	7 1,3-Dichlorobenzene	146	9.433	9.440	(1.000)	360256	4.98102	4.981	
*	8 1,4-Dichlorobenzene-d4	152	9.495	9.502	(1.000)	186630	4.00000	(M)	
	9 1,4-Dichlorobenzene	146	9.526	9.533	(1.000)	384899	5.41753	5.418	
$	10 1,2-Dichlorobenzene-d4	152	9.859	9.867	(1.000)	234712	4.87598	4.876	
	12 1,2-Dichlorobenzene	146	9.883	9.890	(1.000)	347895	5.04360	5.044	
	11 Benzyl alcohol	108	9.758	9.766	(1.000)	198178	5.66352	5.664	
	14 2,2'-oxybis(1-Chloropropane)	121	10.054	10.069	(1.059)	97195	4.87885	4.879	(M)
	13 2-Methylphenol	108	9.976	9.976	(1.000)	294748	5.52014	5.520	
	17 Hexachloroethane	117	10.480	10.488	(1.000)	147539	4.80276	4.803	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.325	(1.000)	245252	5.79904	5.799	
	15 4-Methylphenol	108	10.240	10.240	(1.000)	358181	5.58782	5.588	
$	18 Nitrobenzene-d5	82	10.597	10.604	(0.884)	410570	5.17753	5.178	
	19 Nitrobenzene	77	10.636	10.636	(0.887)	396529	5.17418	5.174	
	20 Isophorone	82	11.078	11.078	(0.924)	561164	6.15074	6.151	
	21 2-Nitrophenol	139	11.257	11.266	(0.939)	190510	4.68756	4.688	
	22 2,4-Dimethylphenol	107	11.291	11.300	(0.942)	727077	9.71566	9.716	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.503	(0.959)	285422	4.89396	4.894	
	24 Benzoic acid	105	11.503	11.486	(0.959)	937167	17.9112	17.91	
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	655786	11.1548	11.15	
	26 1,2,4-Trichlorobenzene	180	11.898	11.906	(0.992)	376302	4.46896	4.469	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	709610	4.00000		
	28 Naphthalene	128	12.030	12.037	(1.003)	944934	4.77289	4.773	
	29 4-Chloroaniline	127	12.153	12.161	(1.014)	741401	10.1767	10.18	
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	219961	4.73678	4.737	
	31 4-Chloro-3-methylphenol	107	13.105	13.105	(1.093)	684338	10.6812	10.68	
	32 2-Methylnaphthalene	142	13.430	13.437	(1.120)	688233	4.64947	4.649	
	33 Hexachlorocyclopentadiene	237	13.886	13.902	(0.889)	140817	2.83125	2.831	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	501726	10.2406	10.24
	35	2,4,5-Trichlorophenol	196	14.119	14.118	(0.904)	538187	10.0733	10.07
$	36	2-Fluorobiphenyl	172	14.204	14.211	(0.909)	784507	4.53054	4.531
	37	2-Chloronaphthalene	162	14.428	14.436	(0.924)	645648	4.73421	4.734
	38	2-Nitroaniline	65	14.683	14.691	(0.940)	454594	11.4776	11.48
	39	Dimethylphthalate	163	15.109	15.109	(0.967)	749772	4.88911	4.889
	40	Acenaphthylene	152	15.303	15.310	(0.980)	1050460	4.93452	4.935
	41	2,6-Dinitrotoluene	165	15.256	15.256	(0.977)	350578	10.1280	10.13
*	42	Acenaphthene-d10	164	15.620	15.628	(1.000)	399972	4.00000	
	43	3-Nitroaniline	138	15.543	15.543	(0.995)	360019	10.5659	10.57
	44	Acenaphthene	153	15.682	15.689	(1.004)	649730	4.79885	4.799
	45	2,4-Dinitrophenol	184	15.751	15.759	(1.008)	329217	12.0869	12.09
	46	Dibenzofuran	168	16.006	16.014	(1.025)	948975	4.80716	4.807
	47	4-Nitrophenol	109	15.844	15.844	(1.014)	300723	9.38231	9.382
	48	2,4-Dinitrotoluene	165	16.061	16.068	(1.028)	476782	9.55461	9.555
	50	Diethylphthalate	149	16.563	16.571	(1.060)	887928	5.57648	5.576
	49	Fluorene	166	16.725	16.733	(1.071)	769366	4.72432	4.724
	51	4-Chlorophenyl-phenylether	204	16.710	16.710	(1.070)	376486	4.64262	4.643
	52	4-Nitroaniline	138	16.818	16.825	(1.077)	333649	9.93560	9.936
	53	4,6-Dinitro-2-methylphenol	198	16.910	16.918	(0.906)	509984	18.5393	18.54
	54	N-Nitrosodiphenylamine	169	16.957	16.964	(0.908)	460862	5.11137	5.111
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	129440	6.51276	6.513
	56	4-Bromophenyl-phenylether	248	17.720	17.728	(0.949)	209310	4.91750	4.918
	57	Hexachlorobenzene	284	18.045	18.052	(0.966)	182371	4.26873	4.269
	58	Pentachlorophenol	266	18.401	18.401	(0.985)	244000	8.06913	8.069
*	59	Phenanthrene-d10	188	18.672	18.679	(1.000)	682308	4.00000	
	60	Phenanthrene	178	18.718	18.726	(1.002)	933981	4.66513	4.665
	61	Anthracene	178	18.811	18.818	(1.007)	914959	4.94557	4.946
	62	Carbazole	167	19.136	19.136	(1.025)	829741	5.06668	5.067
	63	Di-n-butylphthalate	149	19.902	19.902	(1.066)	1198683	4.78364	4.784
	64	Fluoranthene	202	21.085	21.085	(0.890)	988669	4.43695	4.437
	65	Pyrene	202	21.511	21.511	(0.908)	1027189	4.61465	4.615
$	66	Terphenyl-d14	244	21.782	21.782	(0.919)	758797	4.31024	4.310
	67	Butylbenzylphthalate	149	22.695	22.695	(0.958)	493590	4.95841	4.958
	68	Benzo(a)anthracene	228	23.663	23.663	(0.999)	932199	4.71816	4.718
*	69	Chrysene-d12	240	23.694	23.694	(1.000)	499082	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.617	23.609	(0.997)	1072097	16.7077	16.71
	71	Chrysene	228	23.741	23.741	(1.002)	884290	5.00056	5.001
	72	bis(2-Ethylhexyl)phthalate	149	23.702	23.702	(0.958)	707443	4.64357	4.644
*	134	Di-n-octylphthalate-d4	153	24.732	24.739	(1.000)	1057621	4.00000	
	73	Di-n-octylphthalate	149	24.747	24.747	(1.001)	1271342	4.55635	4.556
	74	Benzo(b)fluoranthene	252	25.676	25.676	(0.968)	893943	4.73312	4.733
	75	Benzo(k)fluoranthene	252	25.730	25.730	(0.970)	829444	4.42564	4.426
	76	Benzo(a)pyrene	252	26.412	26.404	(0.995)	730865	4.62318	4.623
*	77	Perylene-d12	264	26.536	26.528	(1.000)	459767	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.522	29.498	(1.113)	859791	4.52726	4.527
	79	Dibenzo(a,h)anthracene	278	29.522	29.514	(1.113)	731768	4.60080	4.601
	80	Benzo(g,h,i)perylene	276	30.400	30.376	(1.146)	676494	4.46902	4.469
	90	N-Nitrosodimethylamine	74	5.083	5.090	(1.000)	273656	8.97120	8.971
	91	Aniline	93	8.945	8.953	(1.000)	679031	11.3171	11.32
	93	Benzidine	184	21.310	21.310	(0.899)	666478	8.06231	8.062
	103	Pyridine	79	5.106	5.114	(1.000)	425322	8.84236	8.842
	105	1-methylnaphthalene	142	13.654	13.662	(1.139)	632441	4.66027	4.660
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.041	(1.091)	804915	5.17442	5.174

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.730	25.676	(0.970)	1652030	9.08694	9.087
120 2,3,4,6-Tetrachlorophenol	232	16.347	16.346	(1.047)	246943	4.65206	4.652

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052315.D
Lab Smp Id: SLE0101-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	186630	3.99
27 Naphthalene-d8	621628	310814	1243256	709610	14.15
42 Acenaphthene-d10	353112	176556	706224	399972	13.27
59 Phenanthrene-d10	694933	347467	1389866	682308	-1.82
69 Chrysene-d12	553967	276984	1107934	499082	-9.91
134 Di-n-octylphthala	895601	447801	1791202	1057621	18.09
77 Perylene-d12	482573	241287	965146	459767	-4.73

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	-0.08
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.69	0.00
134 Di-n-octylphthala	24.74	24.24	25.24	24.73	-0.03
77 Perylene-d12	26.53	26.03	27.03	26.54	0.03

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

REVIEW SUMMARY FOR FILE - NT1005052315.D

Lab ID: SLE0101-CCV1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 19:50

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

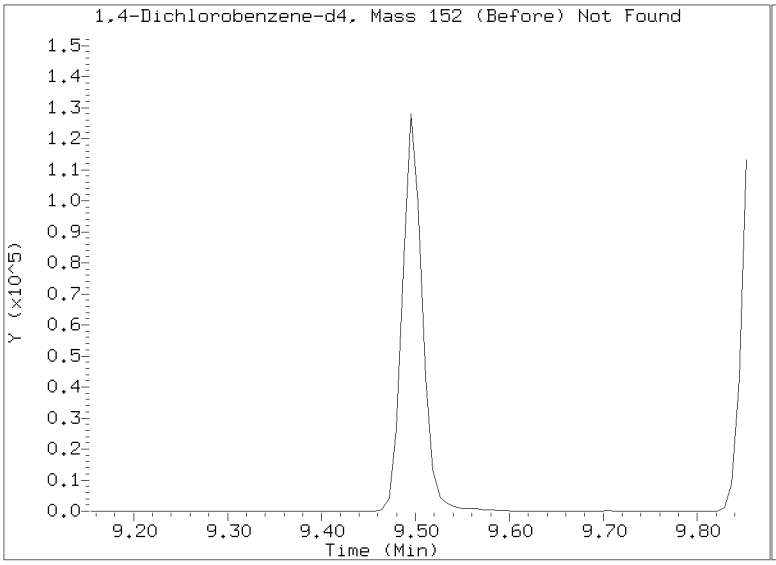
RRT check based on Ccal File: NT1005052303.D

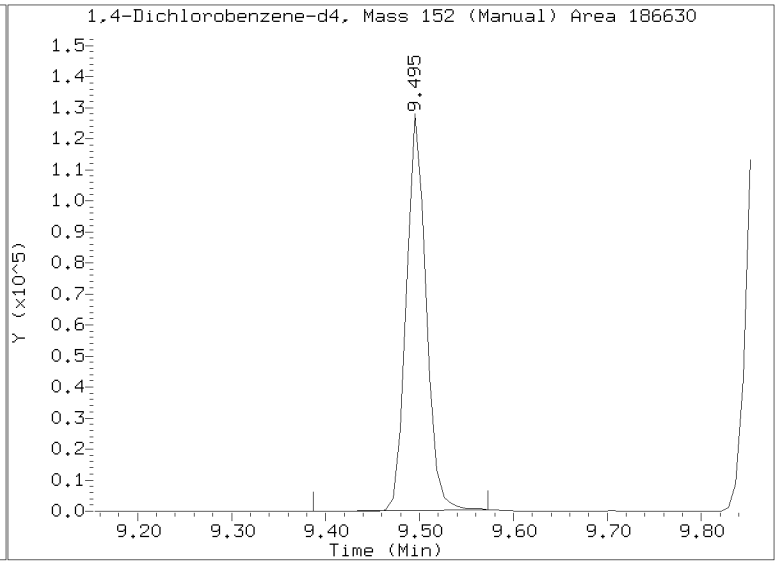
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

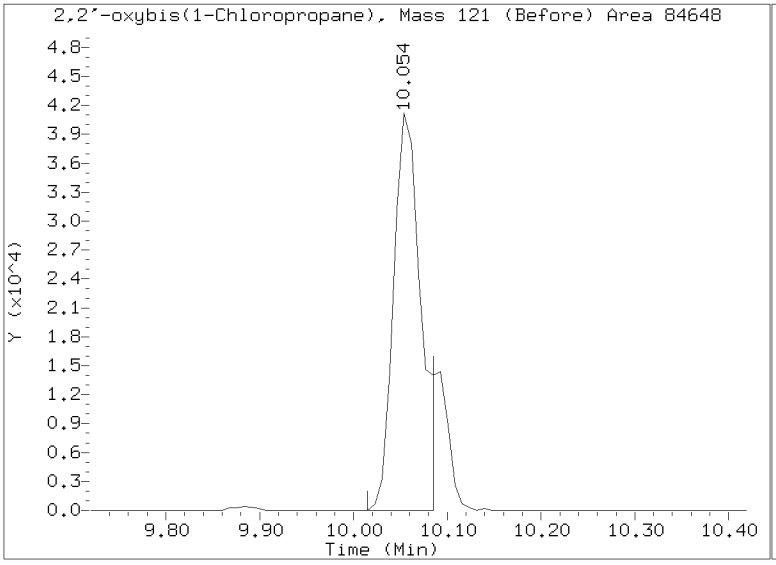
* Only compounds listed in the work order have been verified by the analyst *

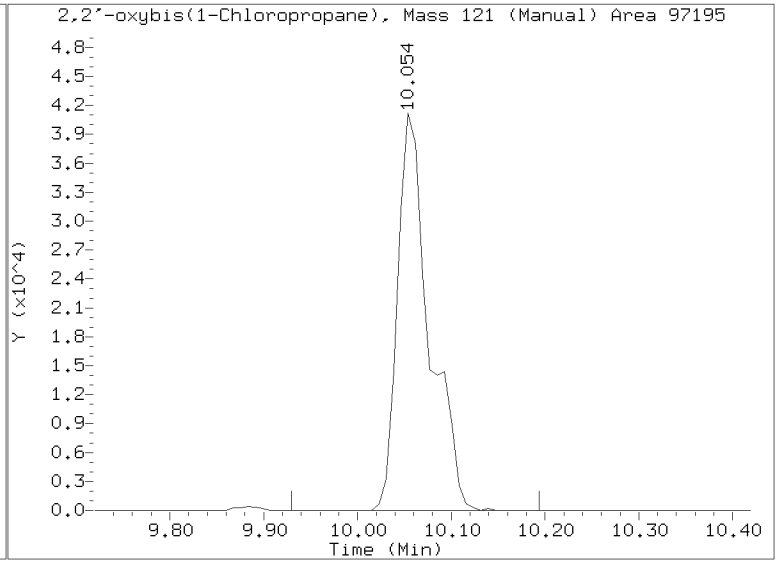
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052315.D
Injection Date: 05-MAY-2023 19:50
Lab ID:SLE0101-CCV1 Client ID:
Report Date: 05/08/2023 10:16









APPROVED

By Deenay Dunmore at 10:40 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00012
Lab File ID:	NT1005052304.D	Calibration Date:	05/01/2023
Sequence:	SLE0101	Injection Date:	05/05/23
Lab Sample ID:	SLE0101-LCV1	Injection Time:	12:43
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.4	1.5603090	1.3555210		-13.1	+/-50
4-Methylphenol	A	0.50000	0.4	1.3738470	1.1430330		-16.8	+/-50
Naphthalene	A	0.50000	0.5	1.1159900	1.0205760		-8.6	+/-50
2-Methylnaphthalene	A	0.50000	0.4	0.8343963	0.7223103		-13.4	+/-50
Acenaphthylene	A	0.50000	0.4	2.1289490	1.8813880		-11.6	+/-50
Dimethylphthalate	A	0.50000	0.4	1.5336640	1.3420860		-12.5	+/-50
Acenaphthene	A	0.50000	0.4	1.3540250	1.2176840		-10.1	+/-50
Dibenzofuran	A	0.50000	0.4	1.9742250	1.7647220		-10.6	+/-50
Fluorene	A	0.50000	0.4	1.6286350	1.4504000		-10.9	+/-50
Phenanthrene	A	0.50000	0.4	1.1736900	1.0314200		-12.1	+/-50
Anthracene	A	0.50000	0.4	1.0845870	0.8604712		-20.7	+/-50
Fluoranthene	A	0.50000	0.4	1.7858880	1.3669300		-23.5	+/-50
Pyrene	A	0.50000	0.4	1.7840190	1.4177700		-20.5	+/-50
Butylbenzylphthalate	A	0.50000	0.3	0.6671669	0.4354436		-47.9	+/-50
Benzo(a)anthracene	A	0.50000	0.4	1.5835210	1.3738860		-13.2	+/-50
Chrysene	A	0.50000	0.5	1.4173070	1.2772180		-9.9	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.4	0.5761948	0.4405148		-23.5	+/-50
Benzofluoranthenes, Total	A	1.0000	0.8	1.5816940	1.2732670		-19.5	+/-50
Benzo(a)pyrene	A	0.50000	0.4	1.3753650	1.0536920		-23.4	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.4	1.6522640	1.2574140		-23.9	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.4	1.3837630	1.0887890		-21.3	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.4	1.3169650	1.0397880		-21.0	+/-50
2-Fluorophenol	A	0.75000	0.588	1.2103940	0.9493926		-21.6	+/-50
Phenol-d5	A	0.75000	0.591	1.4592840	1.1495930		-21.2	+/-50
2-Chlorophenol-d4	A	0.75000	0.587	1.3984790	1.0943050		-21.8	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.423	1.0316970	0.8725714		-15.4	+/-50
Nitrobenzene-d5	A	0.50000	0.416	0.4469969	0.3716489		-16.9	+/-50
2-Fluorobiphenyl	A	0.50000	0.441	1.7317170	1.5268050		-11.8	+/-50
2,4,6-Tribromophenol	A	0.75000	0.435	0.1786492	0.1114071		-42.0	+/-50
p-Terphenyl-d14	A	0.50000	0.403	1.4109530	1.1375540		-19.4	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Page 1

Date : 05-MAY-2023 12:43

Client ID:

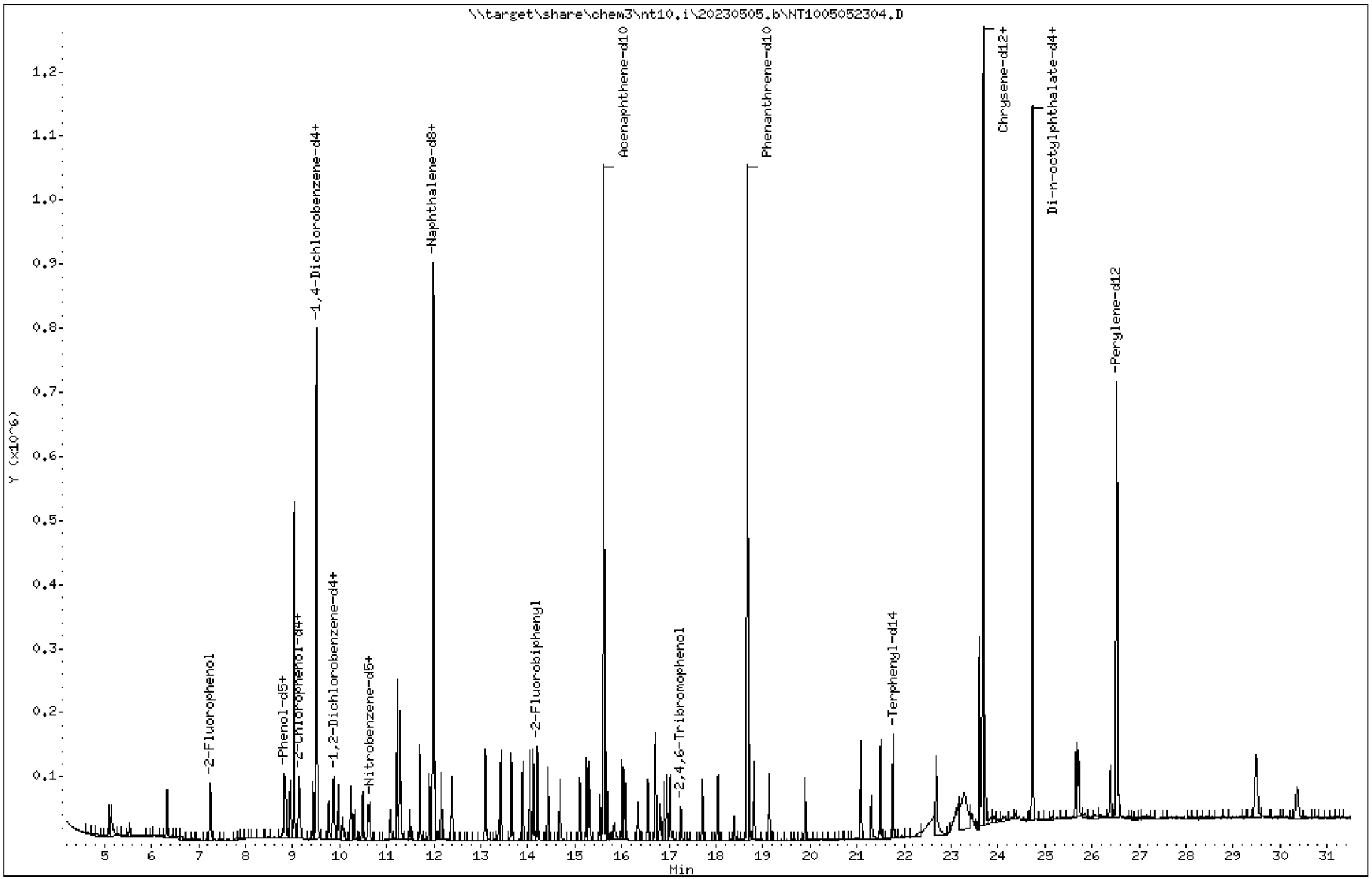
Instrument: nt10.i

Sample Info: SLE0101-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1260 of 4865

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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

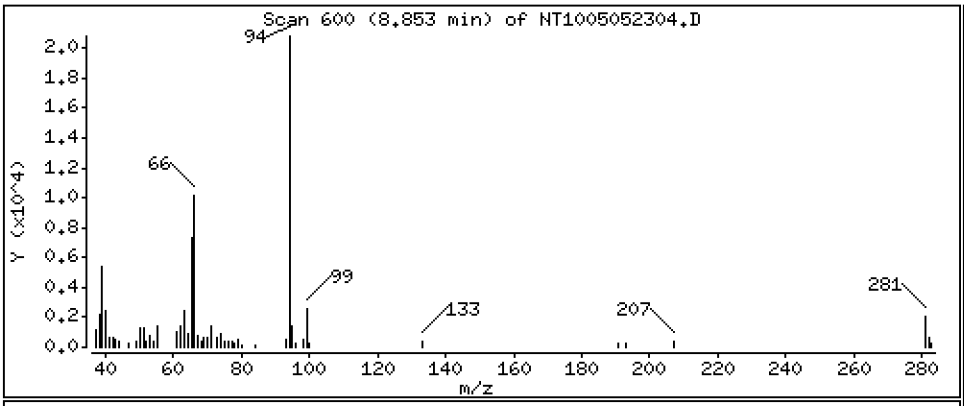
Operator: VTS

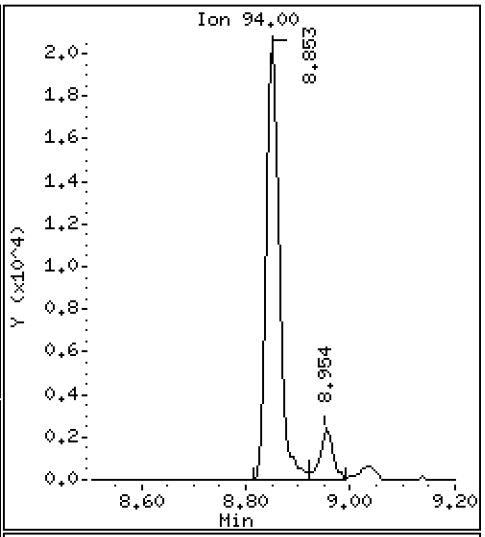
Column phase: ZB-5msi

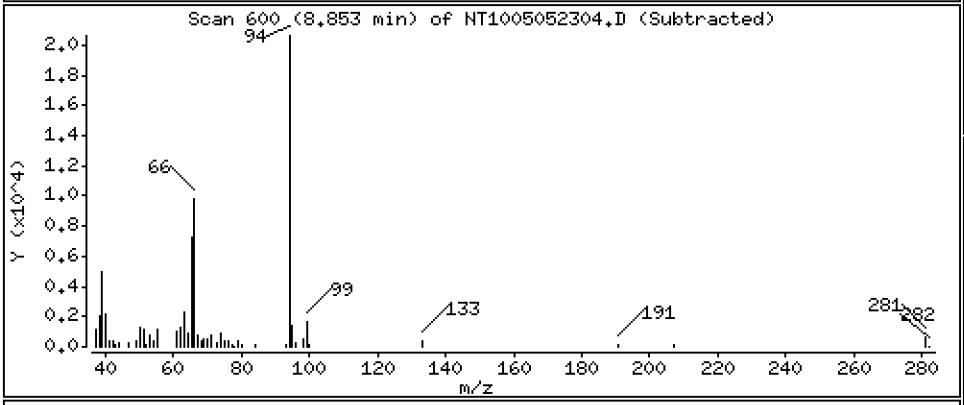
Column diameter: 0.25

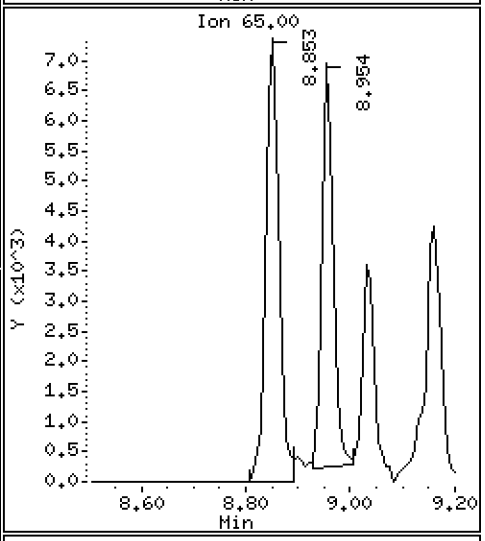
3 Phenol

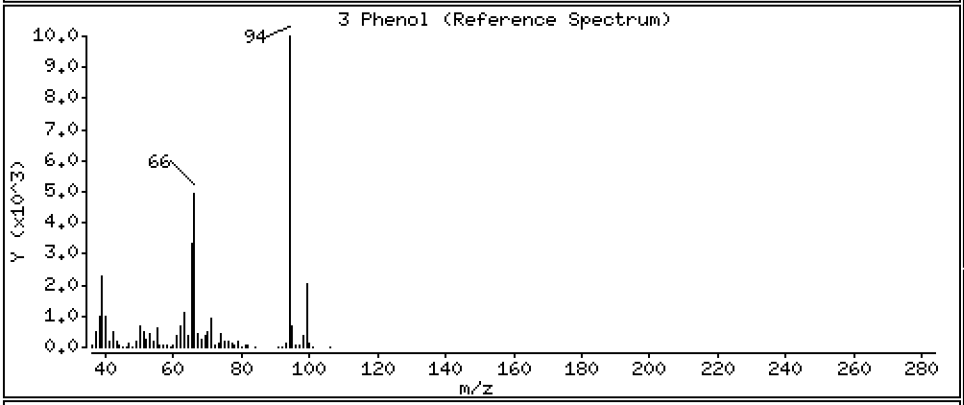
Concentration: 0.4344 ug/mL

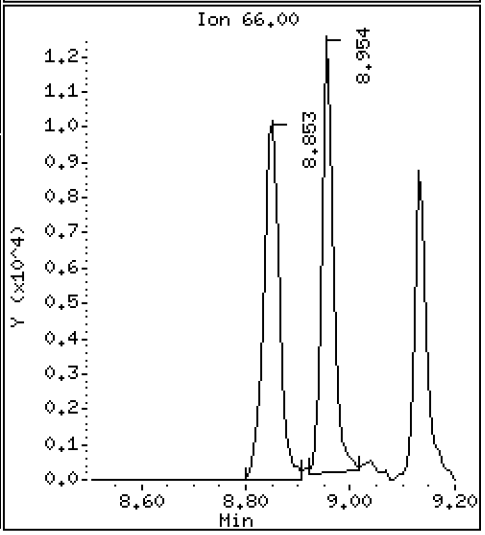


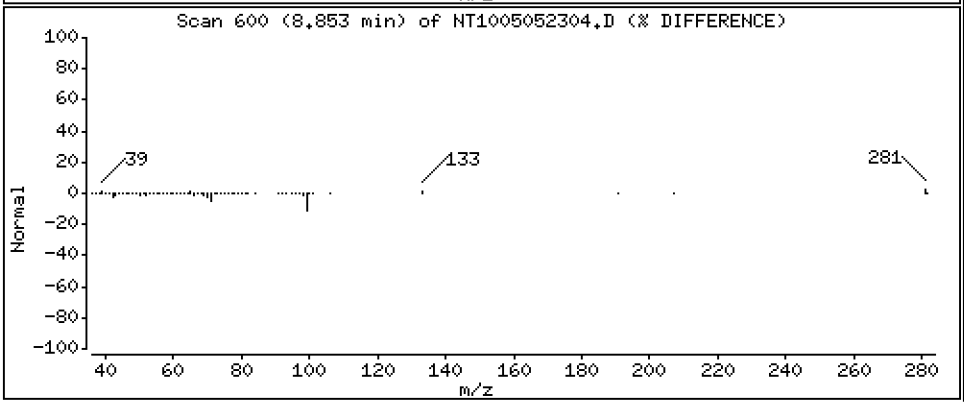












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Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

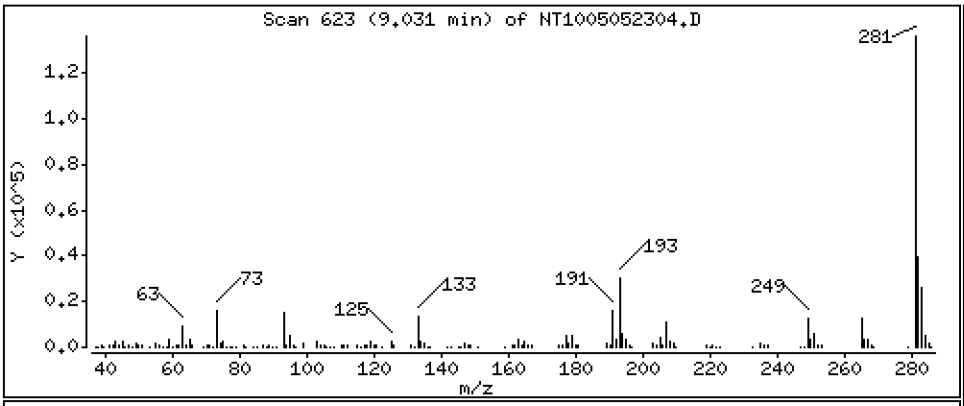
Operator: VTS

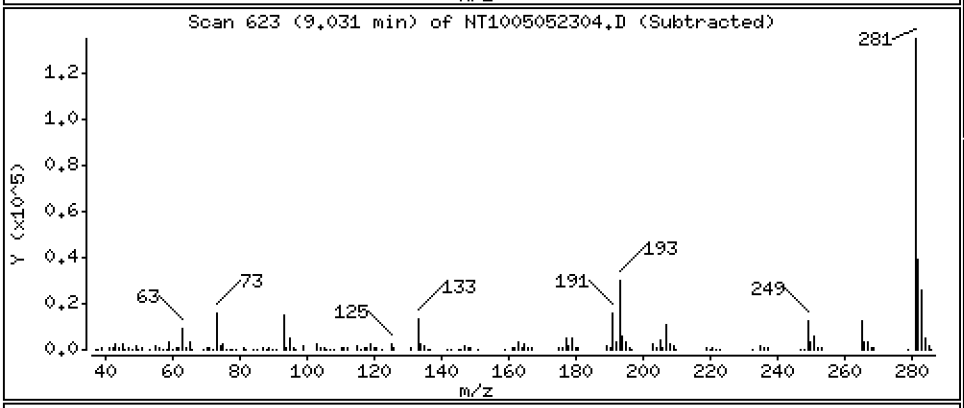
Column phase: ZB-5msi

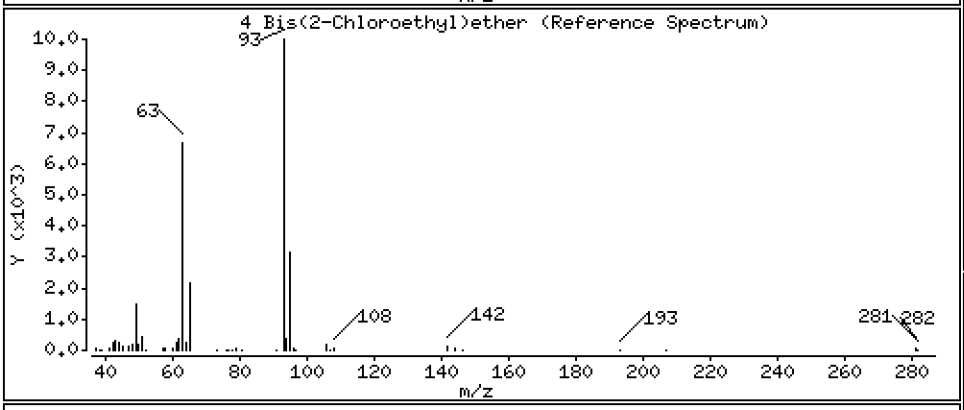
Column diameter: 0.25

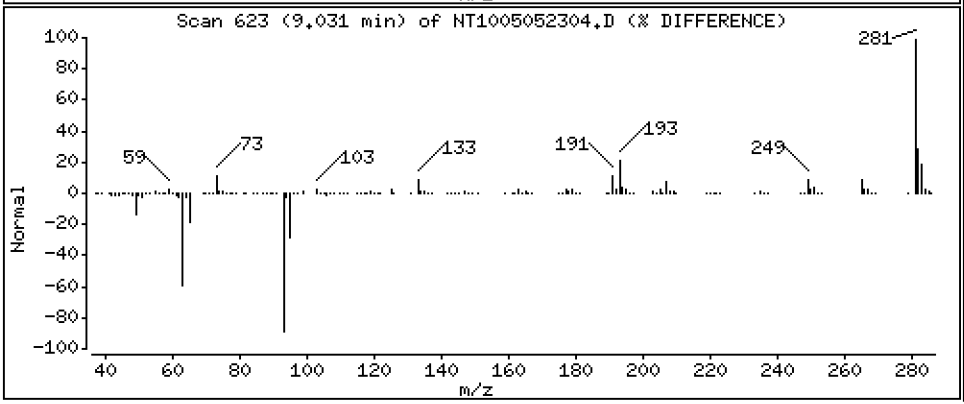
4 Bis(2-Chloroethyl)ether

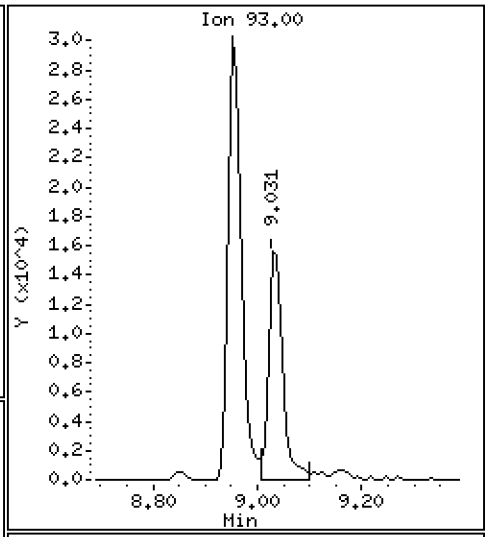
Concentration: 0.4944 ug/mL

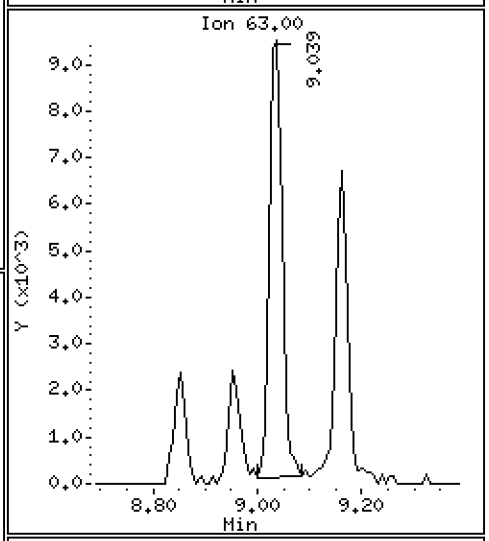


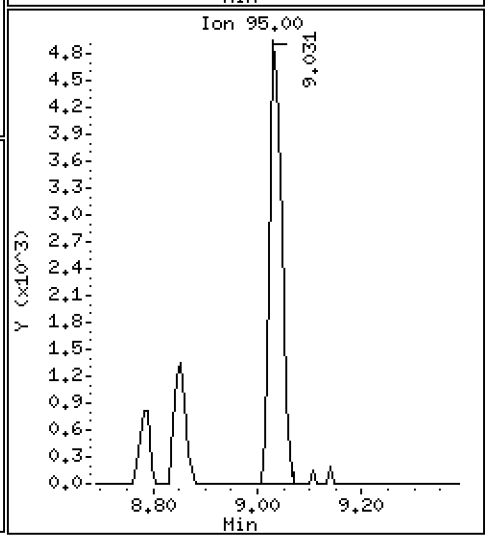












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

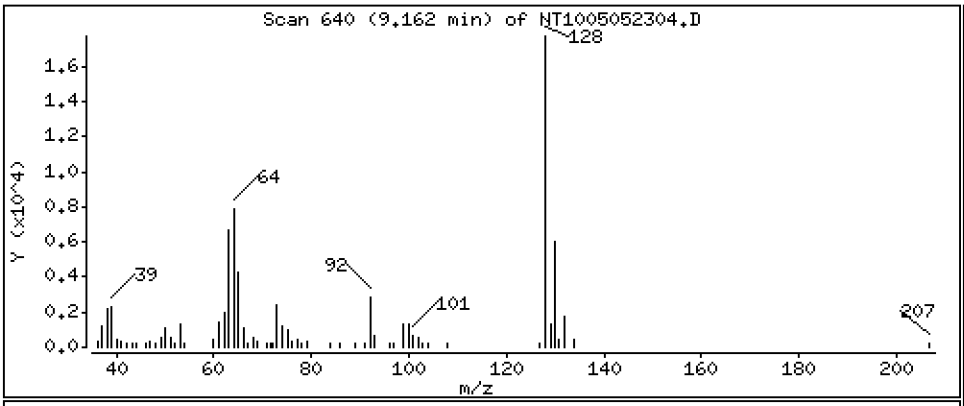
Operator: VTS

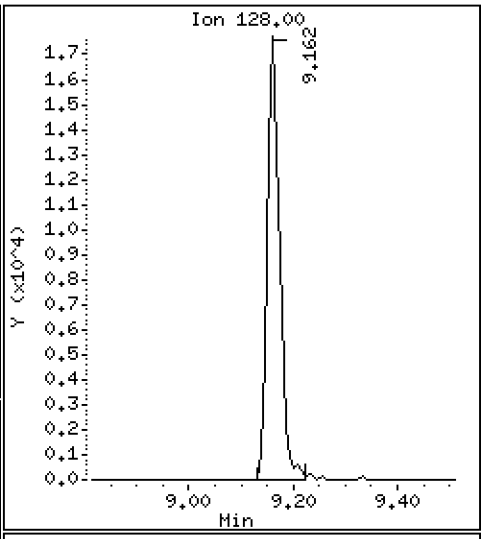
Column phase: ZB-5msi

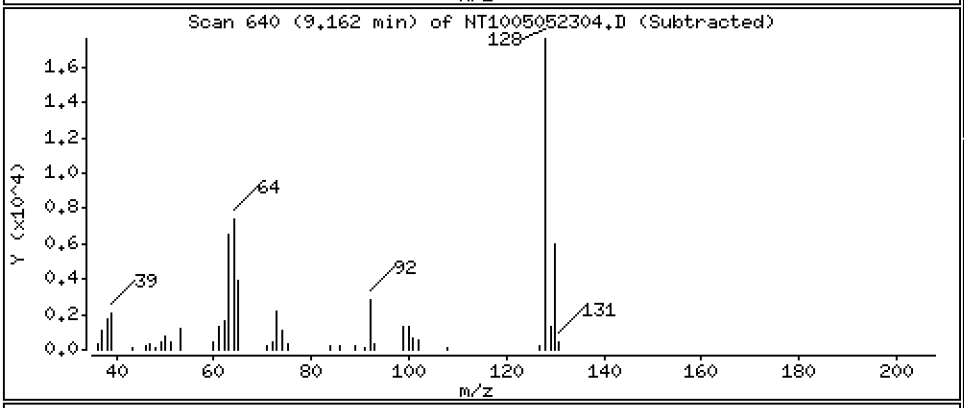
Column diameter: 0.25

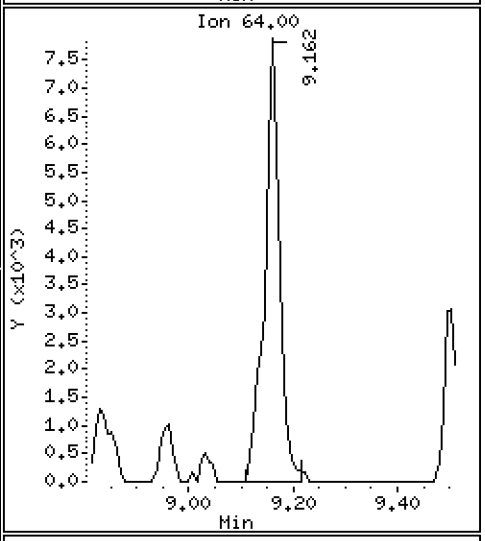
6 2-Chlorophenol

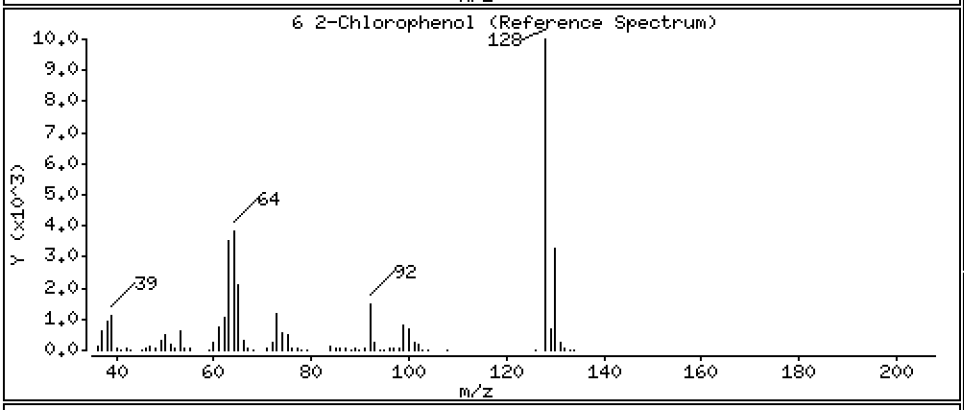
Concentration: 0.4114 ug/mL

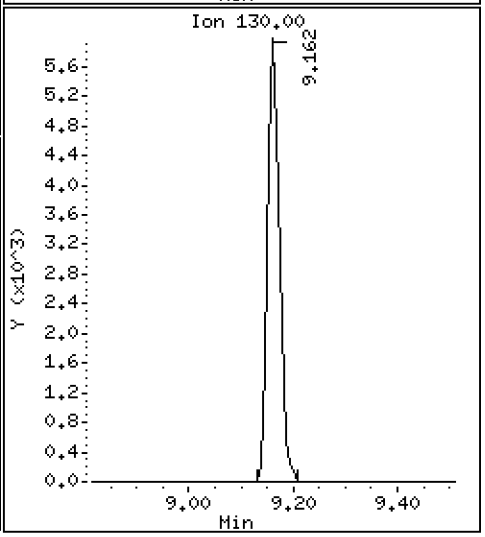


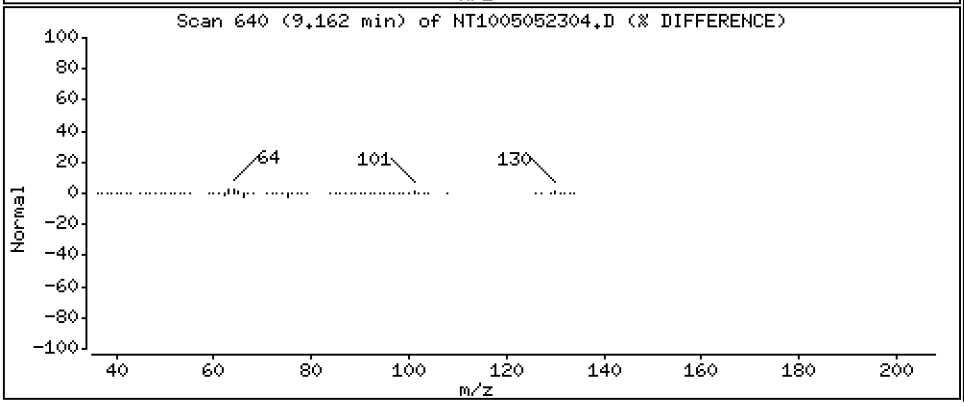












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

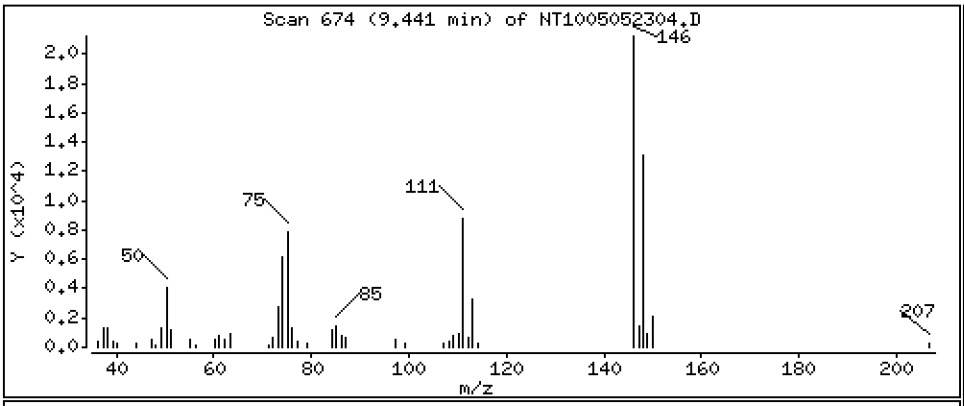
Operator: VTS

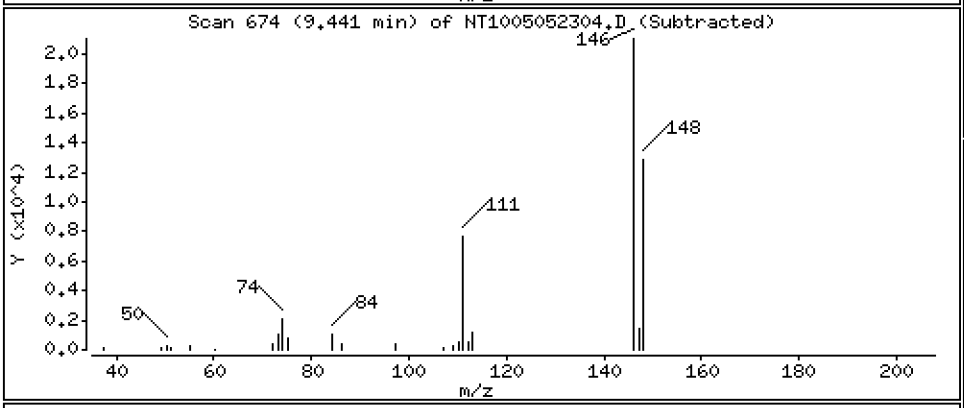
Column phase: ZB-5msi

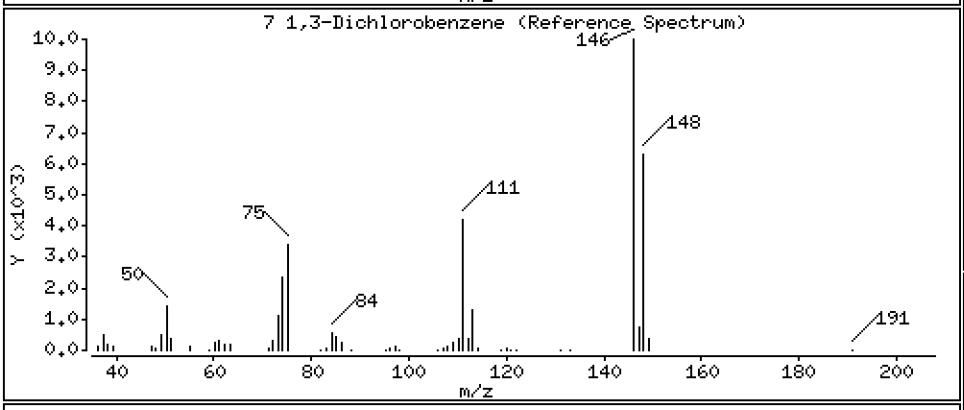
Column diameter: 0.25

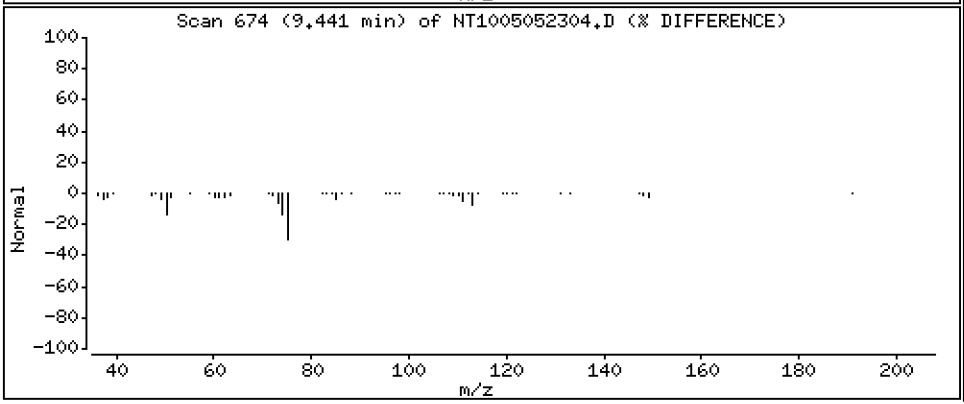
7 1,3-Dichlorobenzene

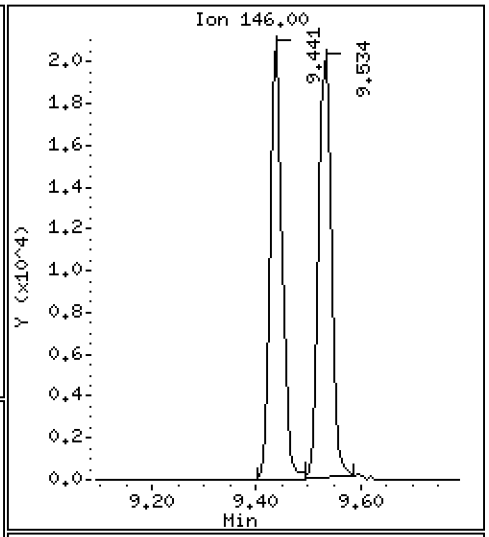
Concentration: 0.4272 ug/mL

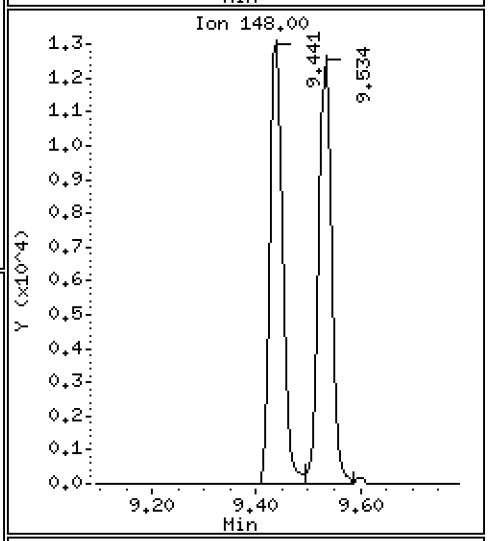


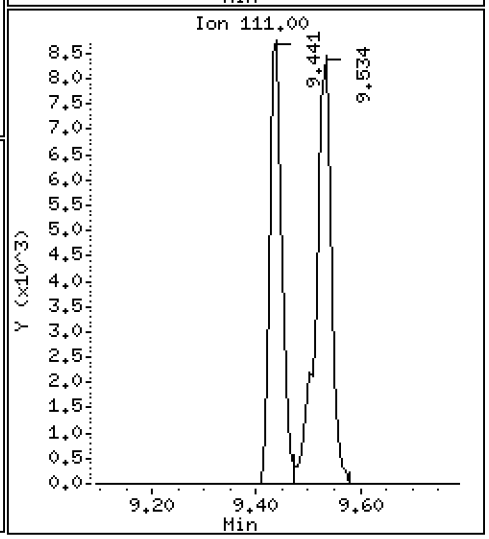












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

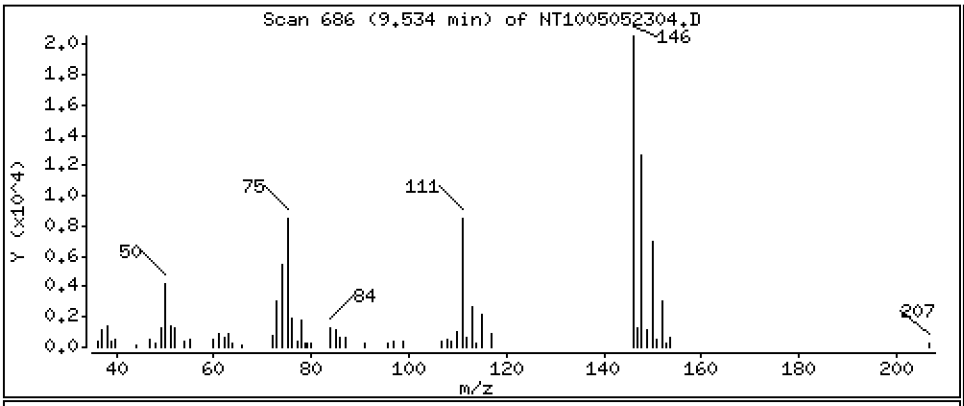
Operator: VTS

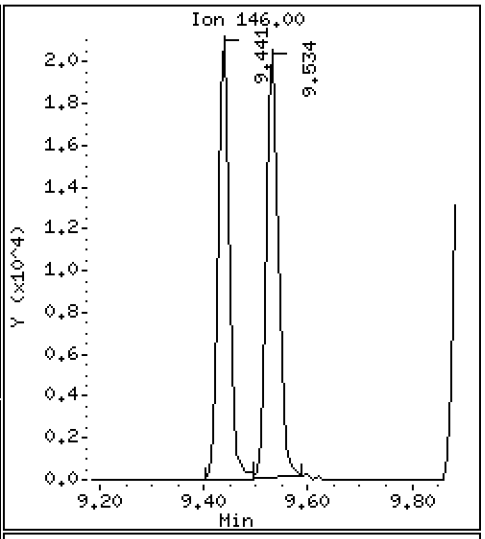
Column phase: ZB-5msi

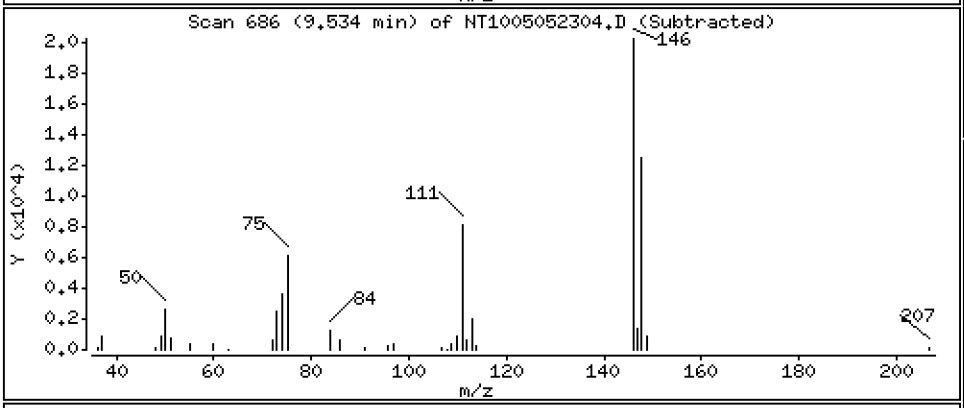
Column diameter: 0.25

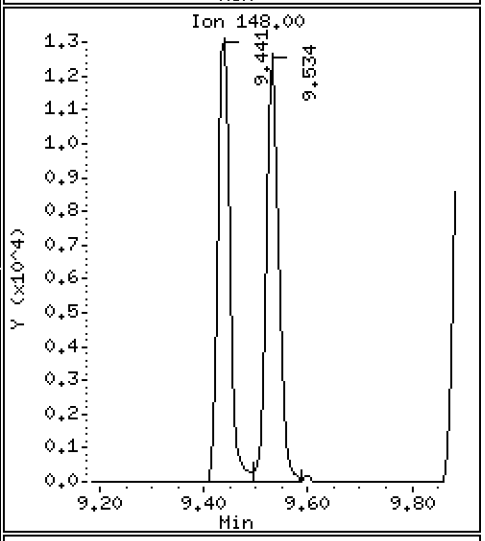
9 1,4-Dichlorobenzene

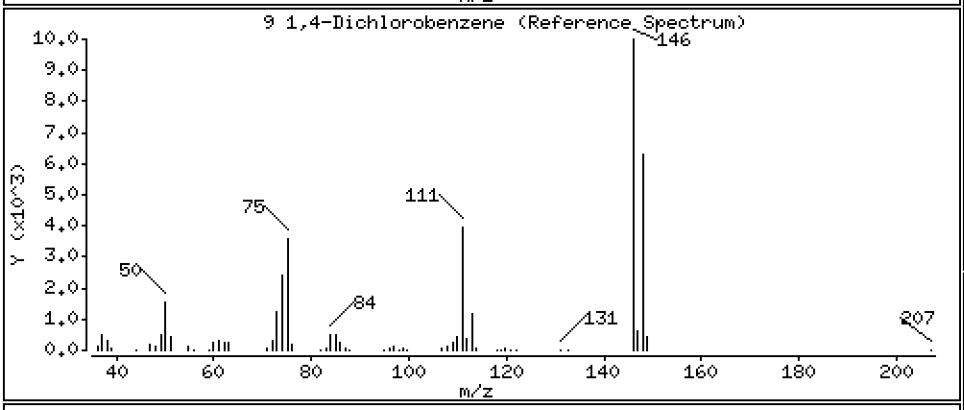
Concentration: 0.4250 ug/mL

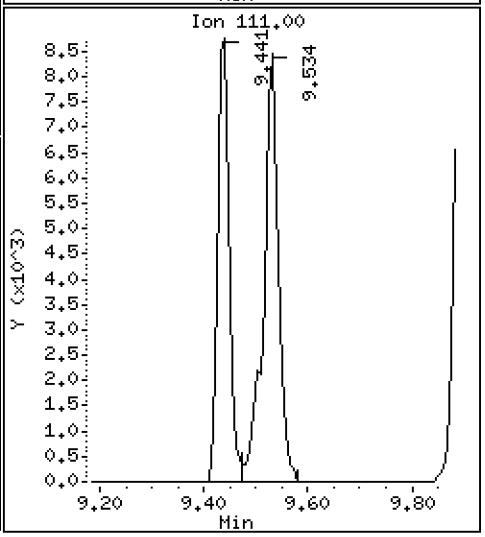


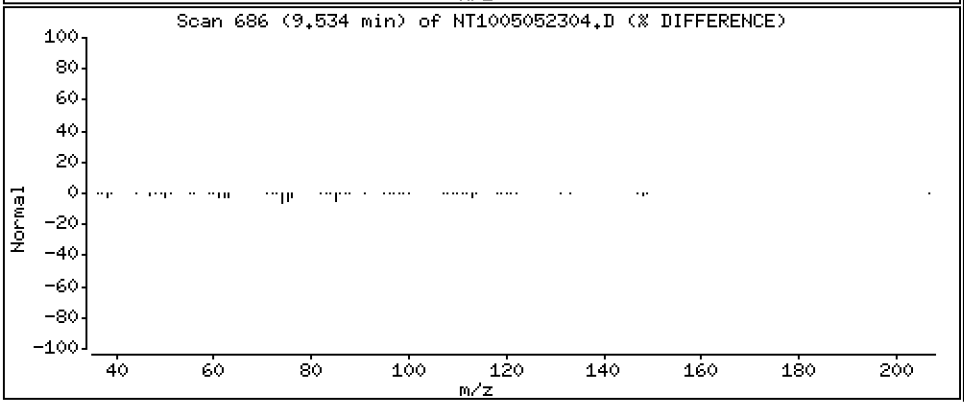












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

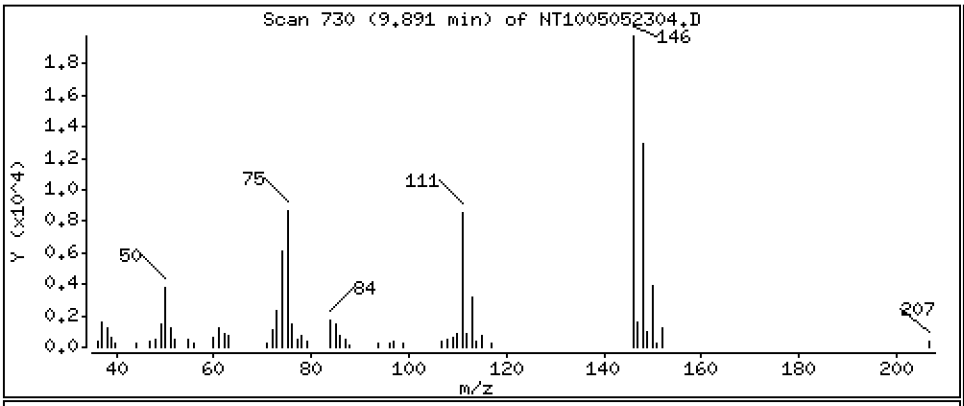
Operator: VTS

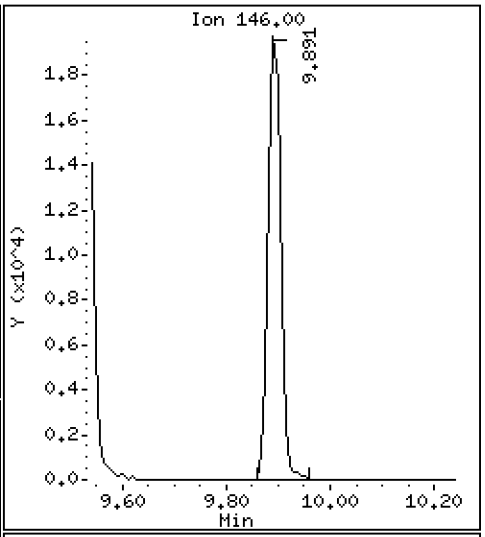
Column phase: ZB-5msi

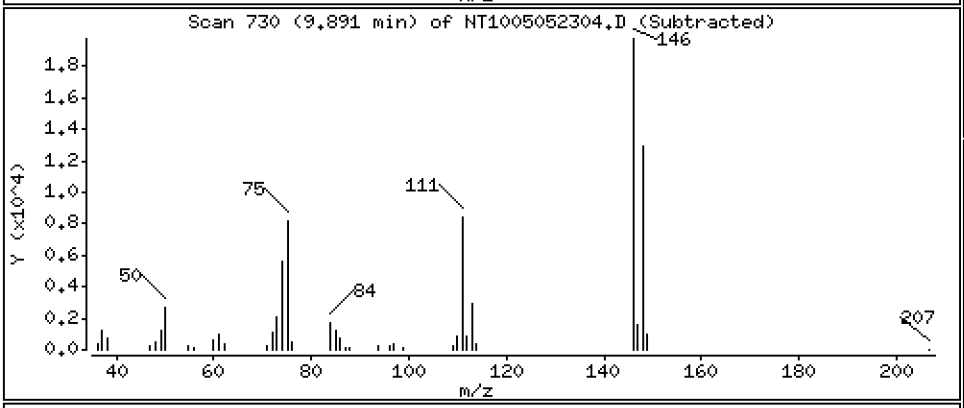
Column diameter: 0.25

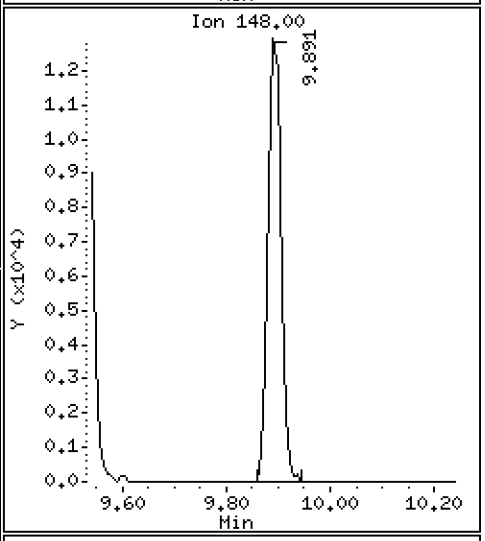
12 1,2-Dichlorobenzene

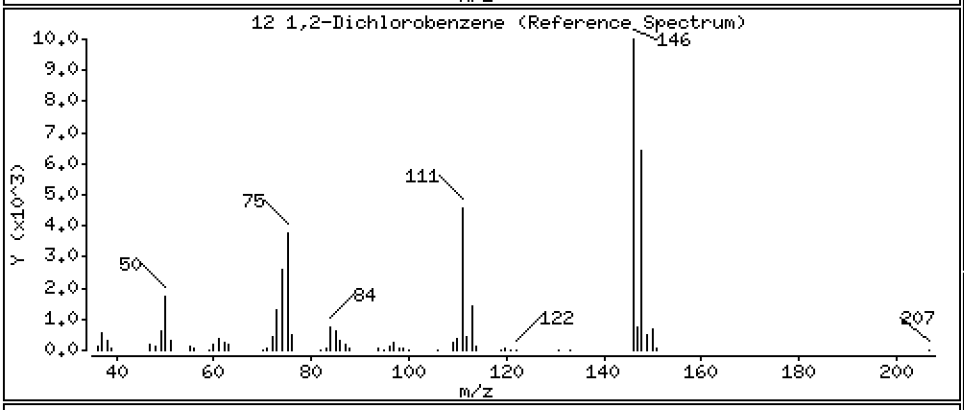
Concentration: 0.4285 ug/mL

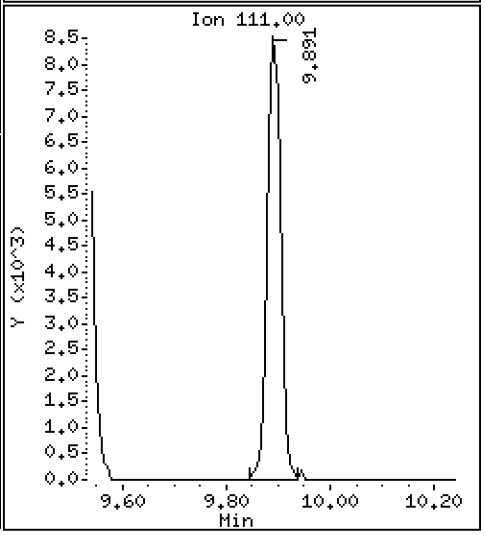


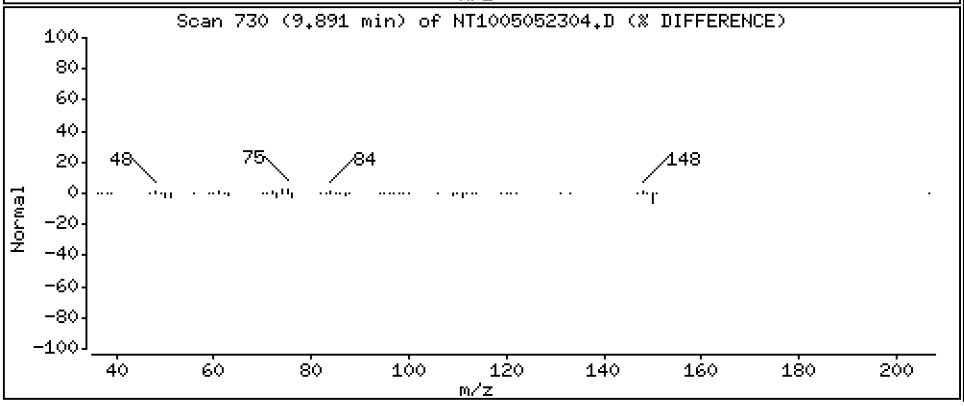












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

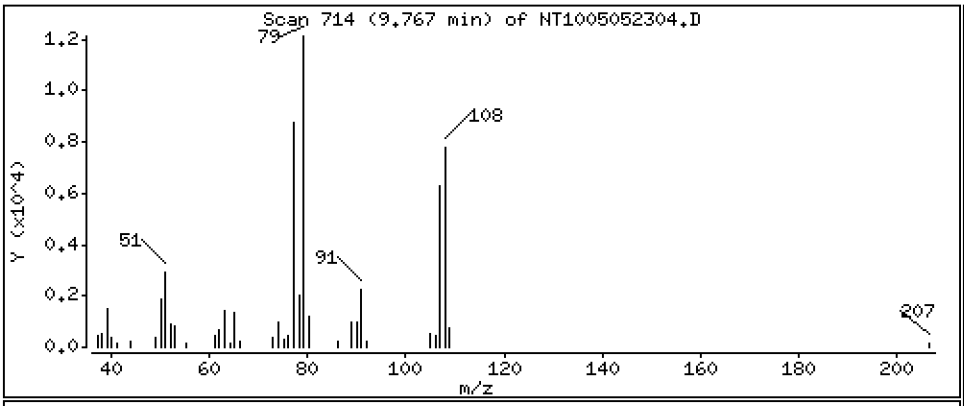
Operator: VTS

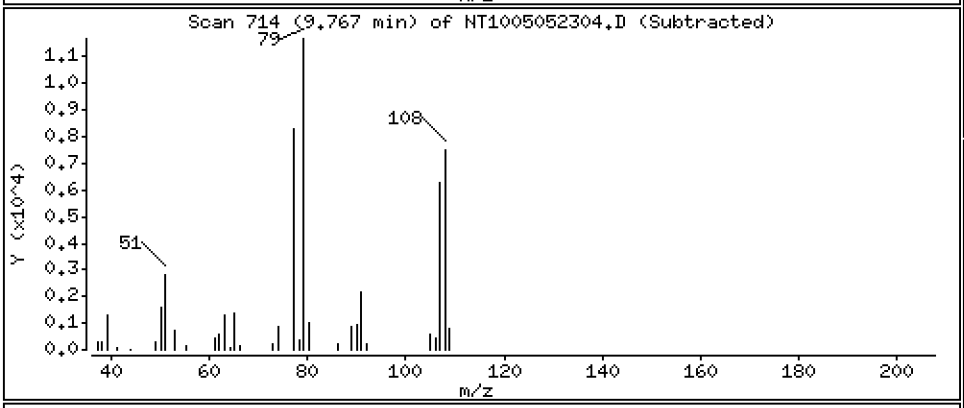
Column phase: ZB-5msi

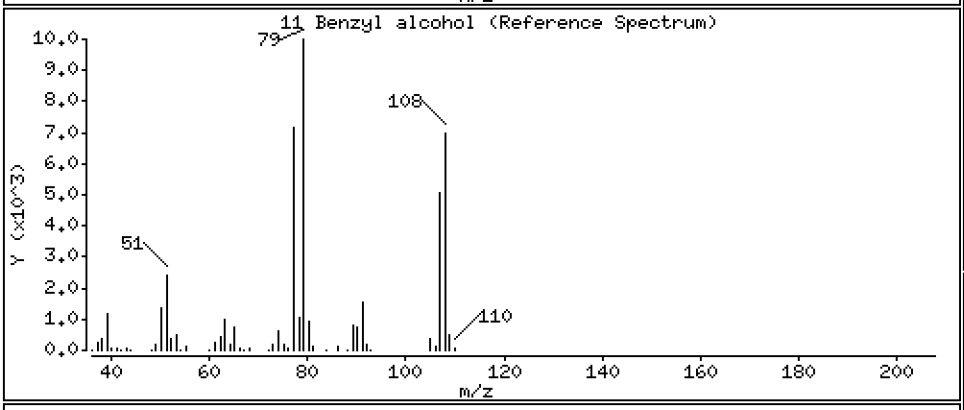
Column diameter: 0.25

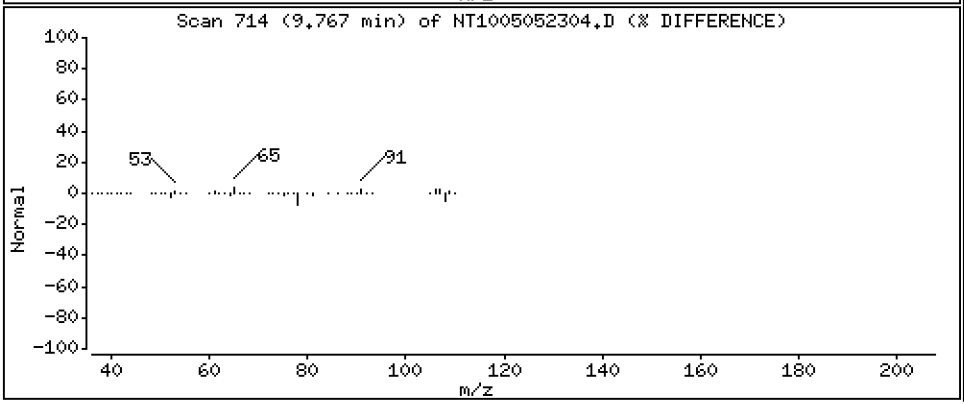
11 Benzyl alcohol

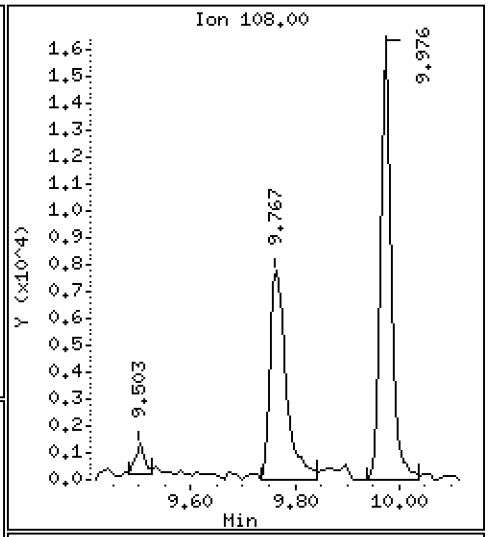
Concentration: 0.4329 ug/mL

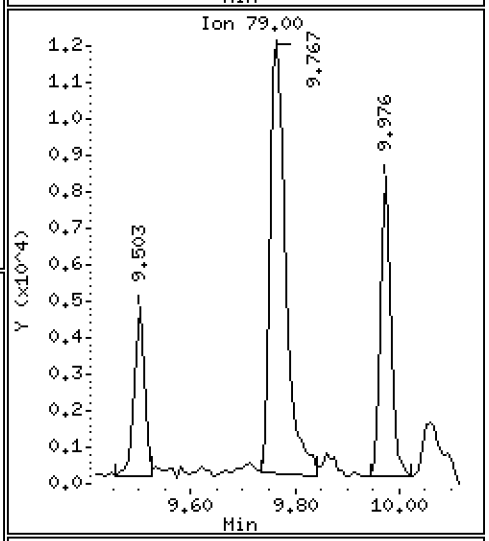


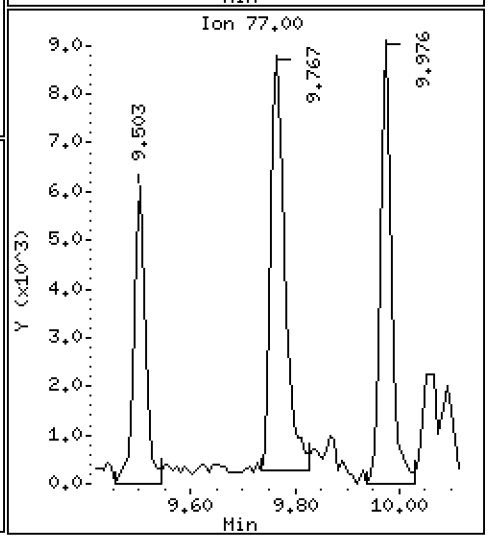












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

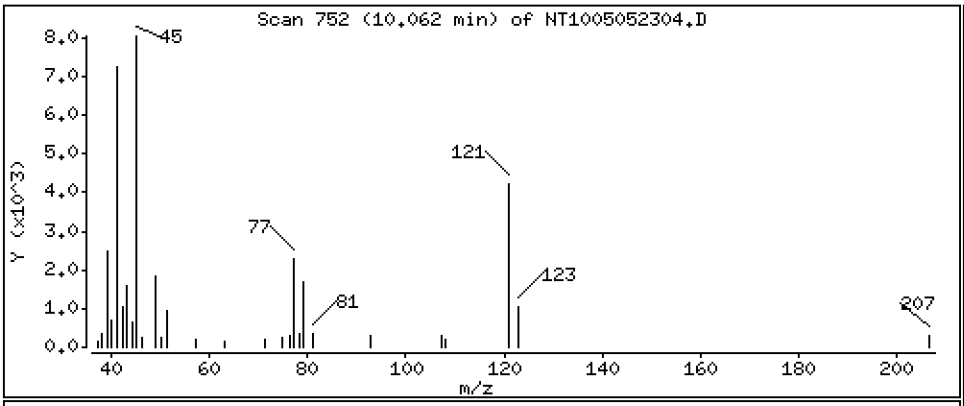
Operator: VTS

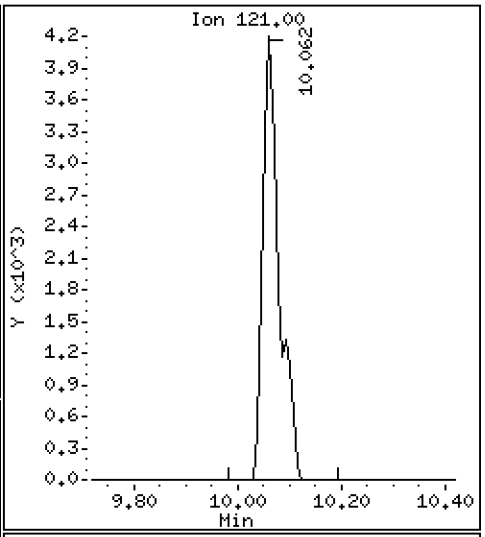
Column phase: ZB-5msi

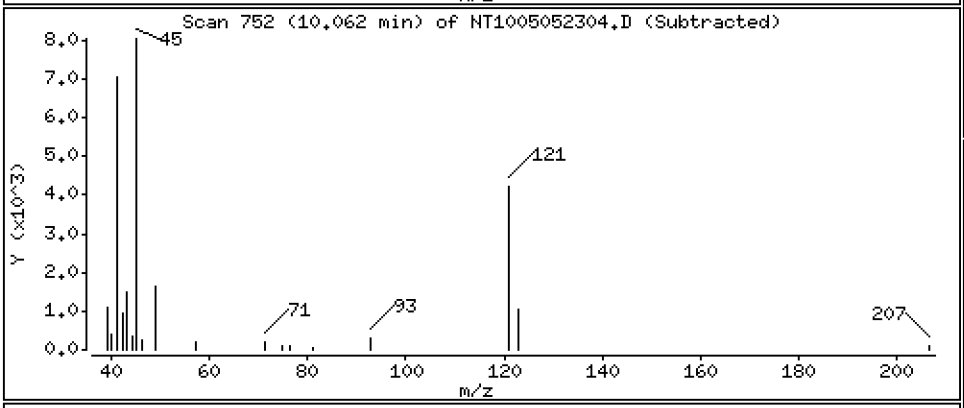
Column diameter: 0.25

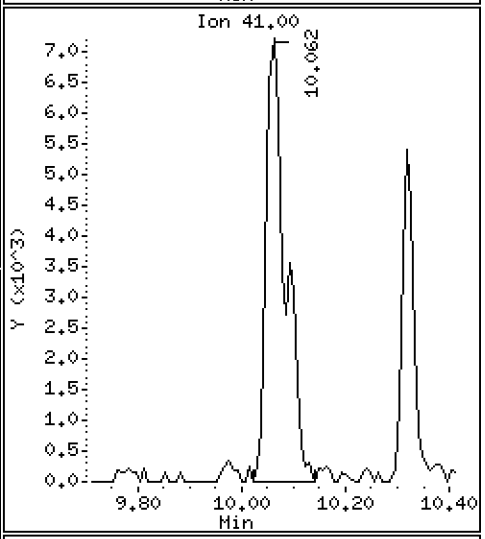
14 2,2'-oxybis(1-Chloropropane)

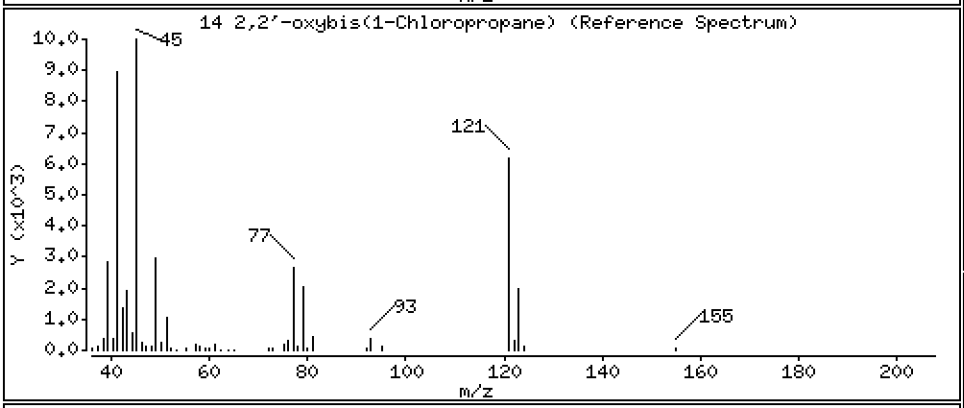
Concentration: 0.4125 ug/mL

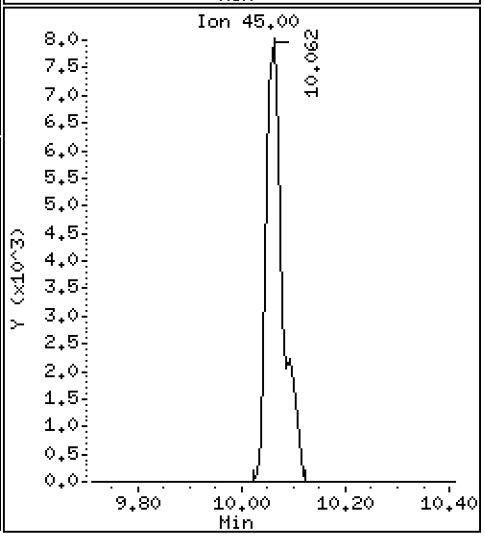


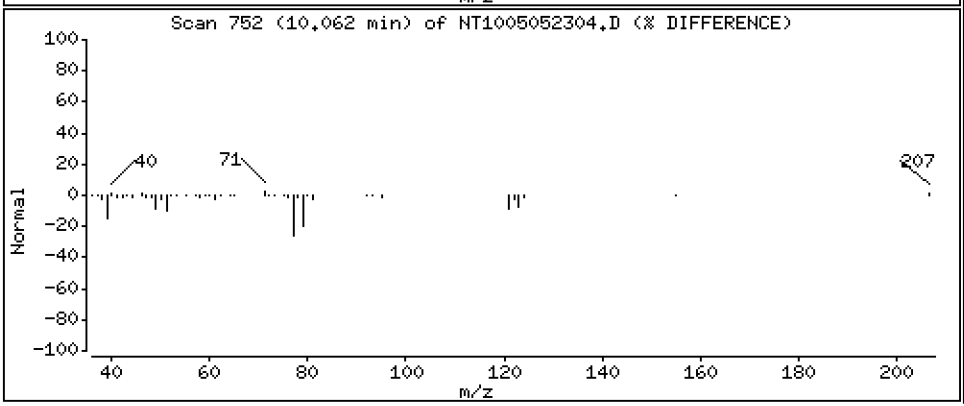












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

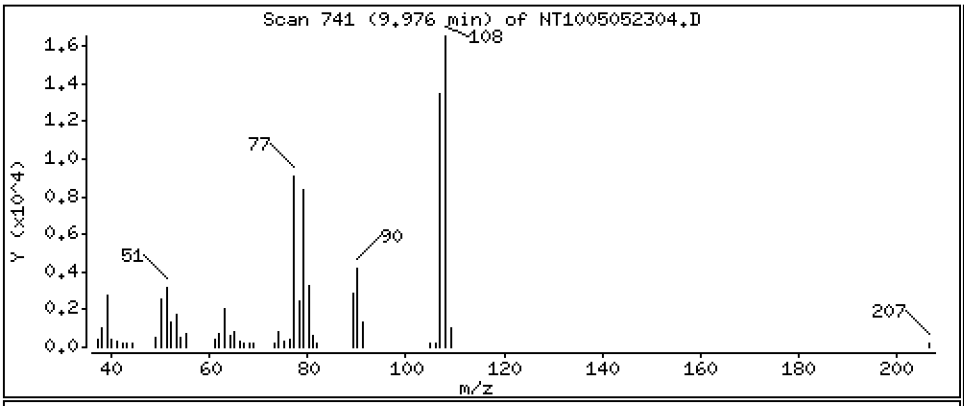
Operator: VTS

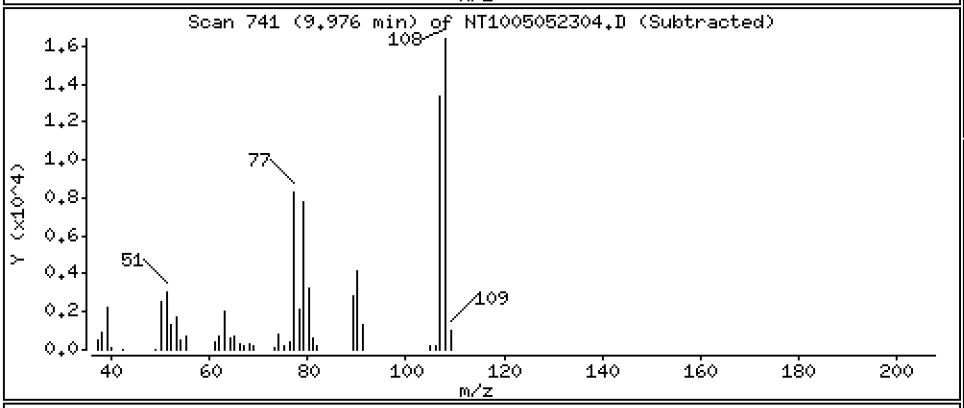
Column phase: ZB-5msi

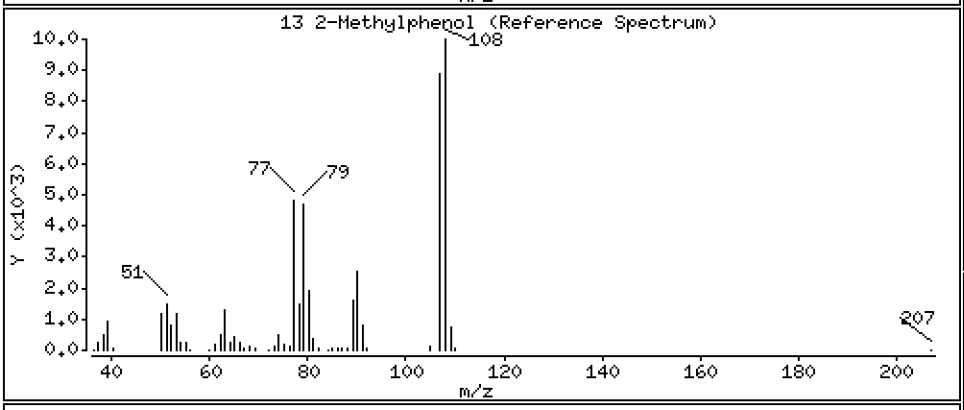
Column diameter: 0.25

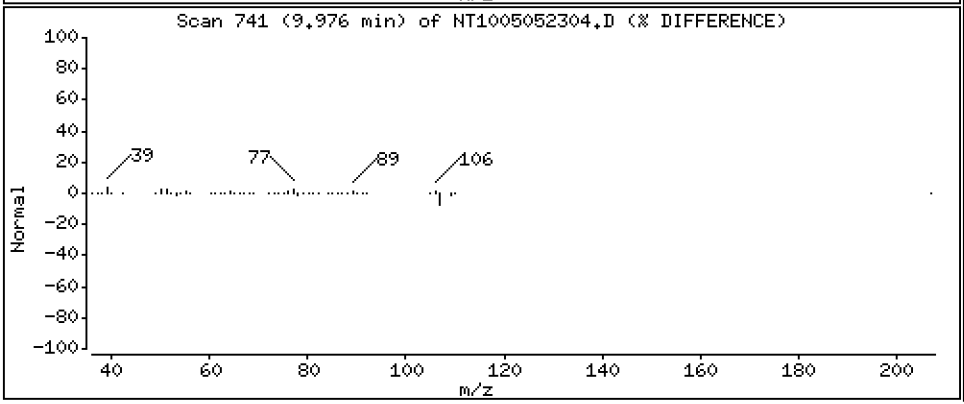
13 2-Methylphenol

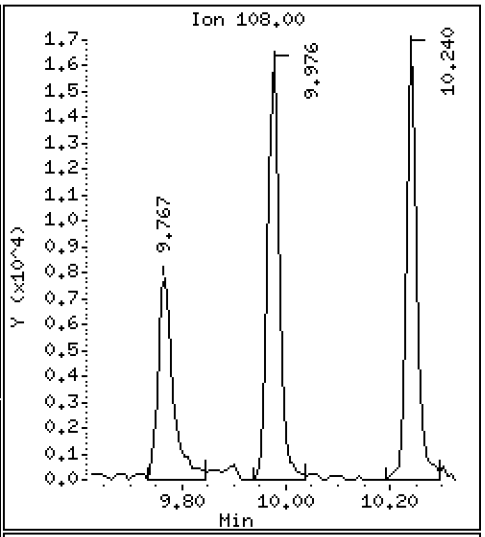
Concentration: 0.4213 ug/mL

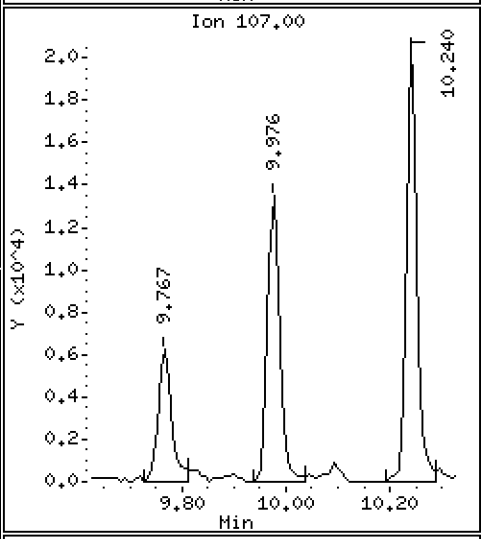


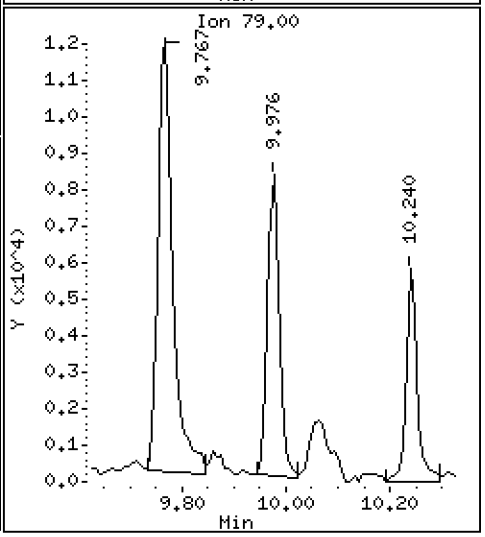












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

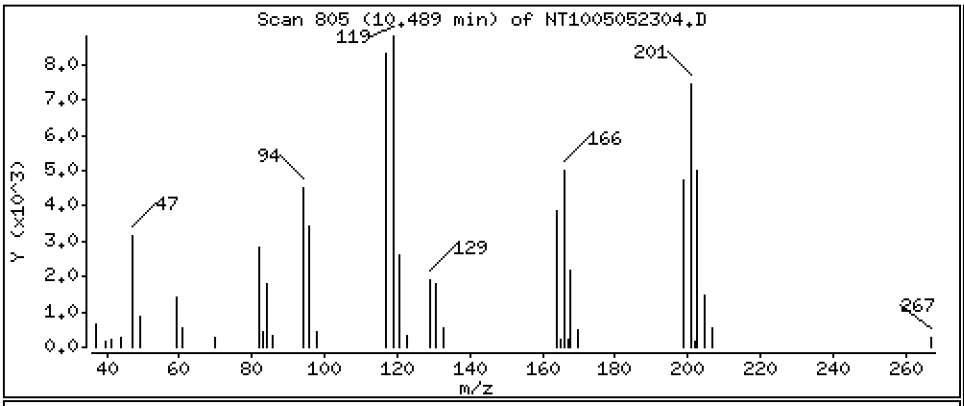
Operator: VTS

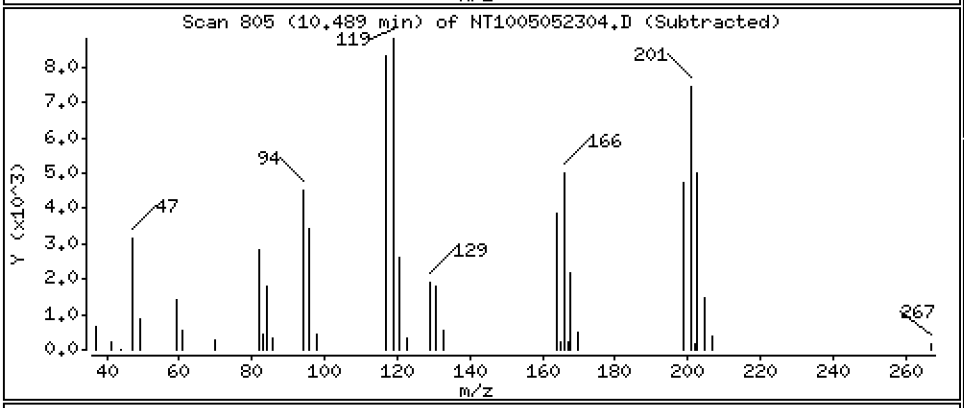
Column phase: ZB-5msi

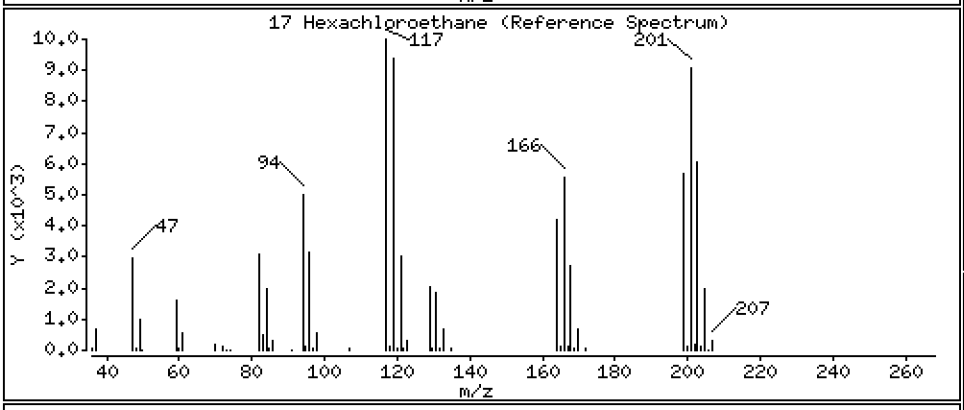
Column diameter: 0.25

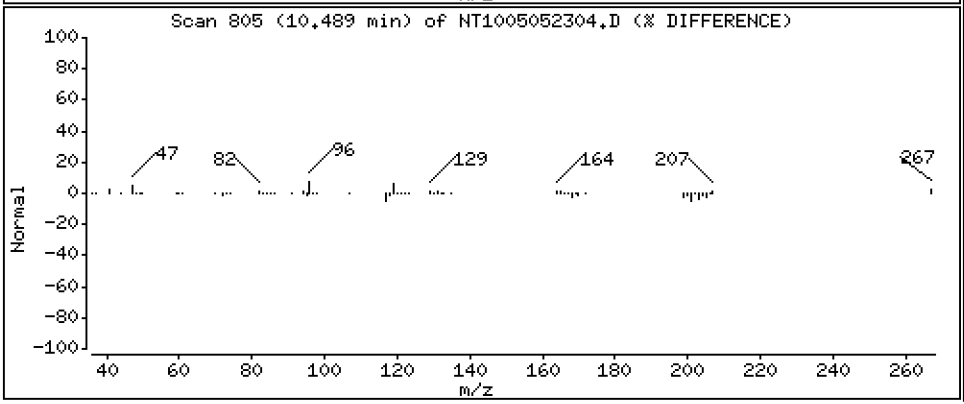
17 Hexachloroethane

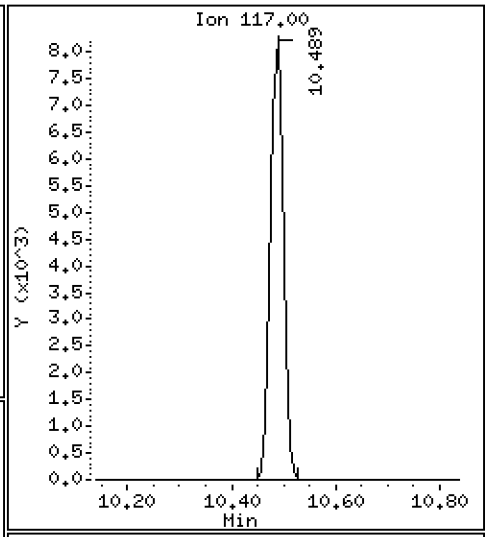
Concentration: 0.4099 ug/mL

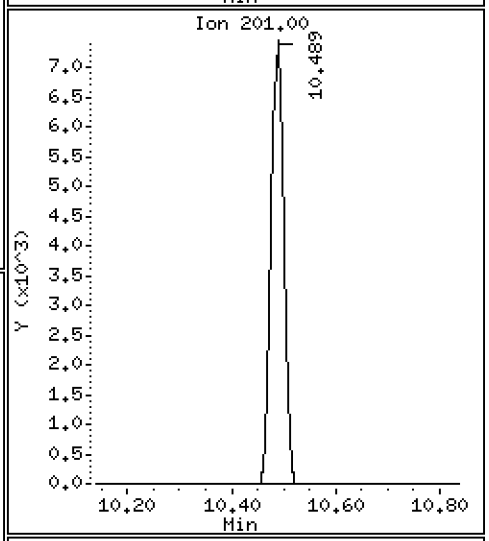


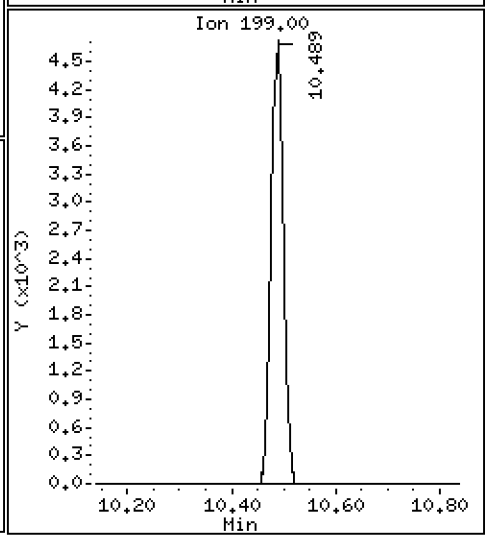












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

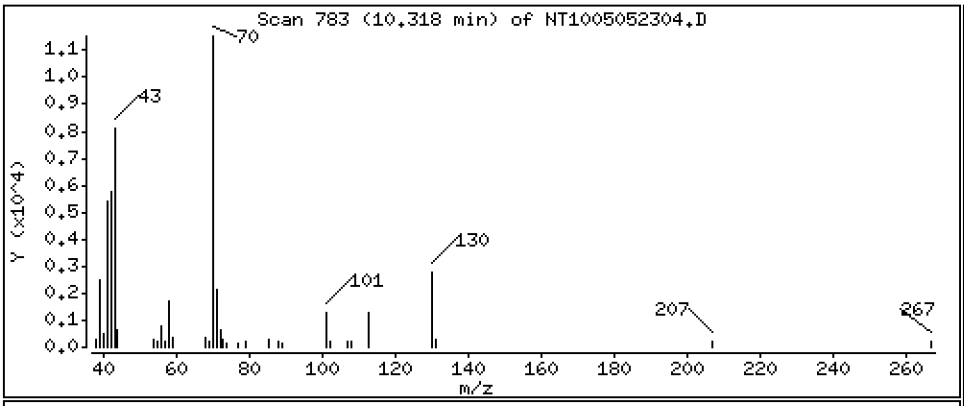
Operator: VTS

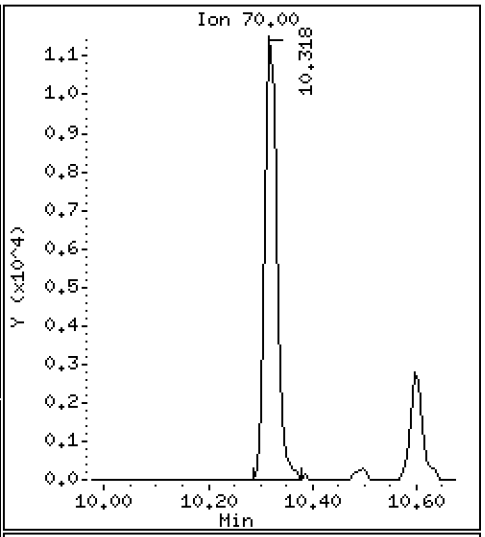
Column phase: ZB-5msi

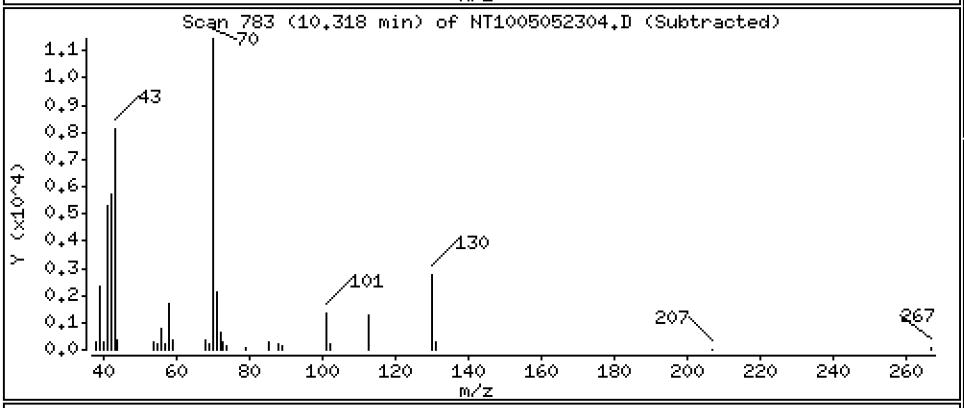
Column diameter: 0.25

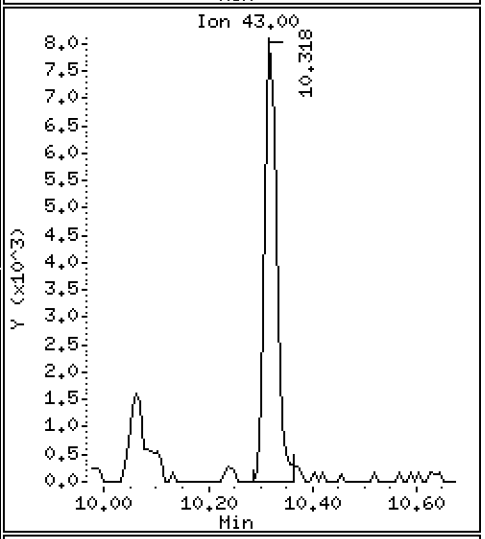
16 N-Nitroso-di-n-propylamine

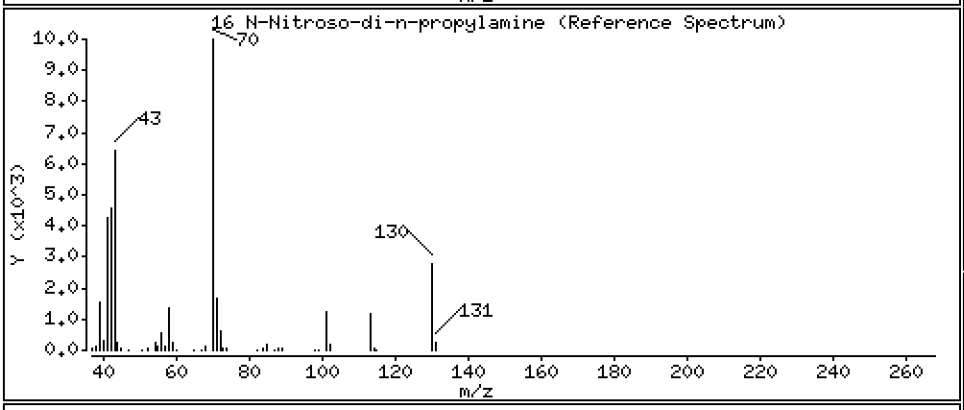
Concentration: 0.3855 ug/mL

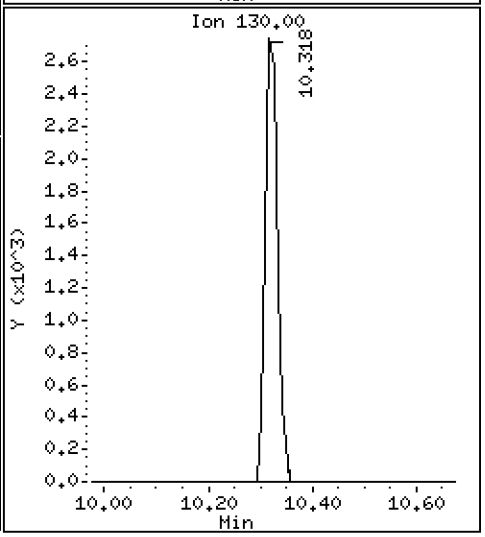


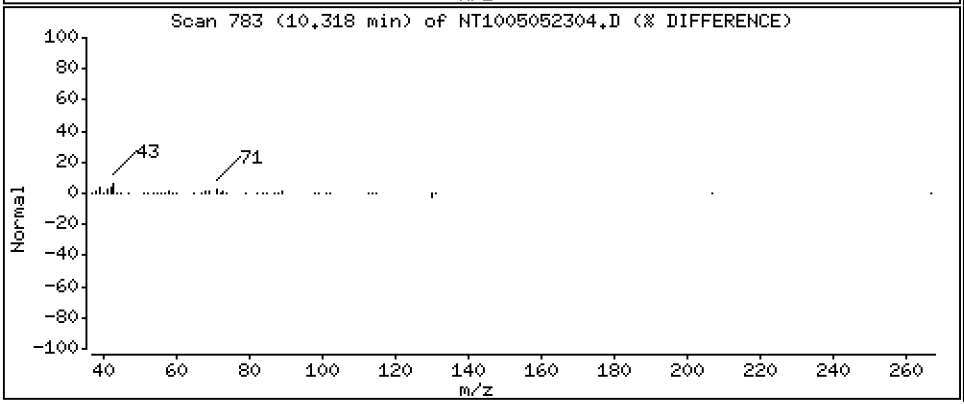












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

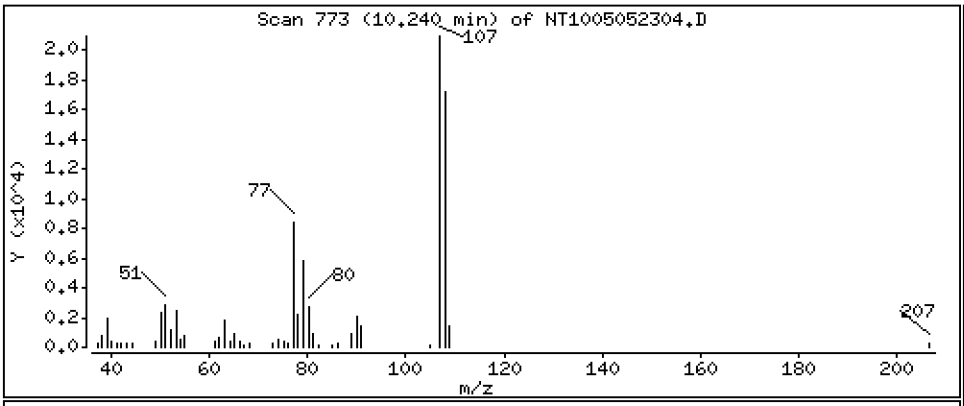
Operator: VTS

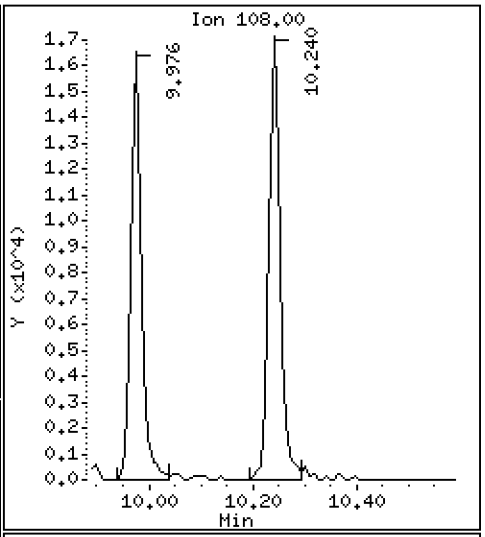
Column phase: ZB-5msi

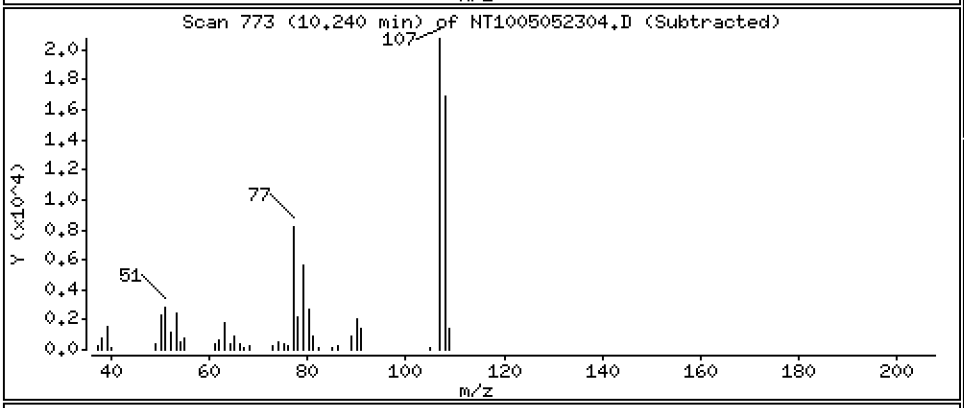
Column diameter: 0.25

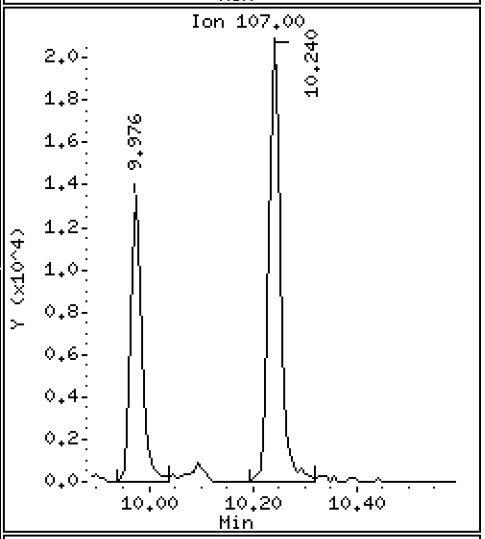
15 4-Methylphenol

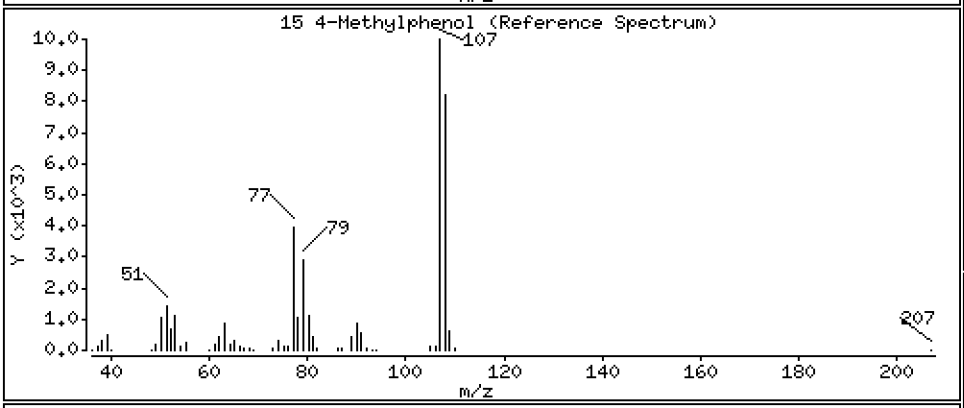
Concentration: 0.4160 ug/mL

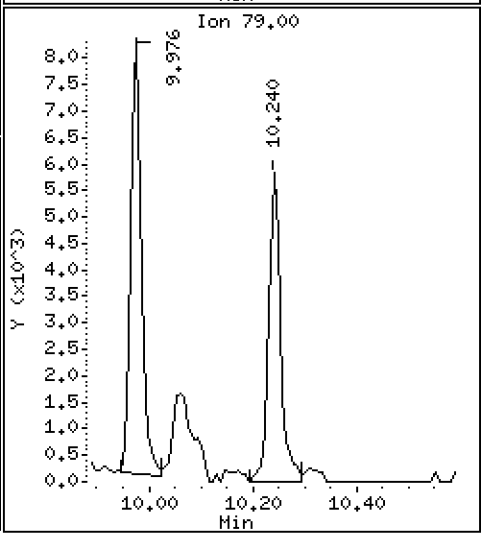


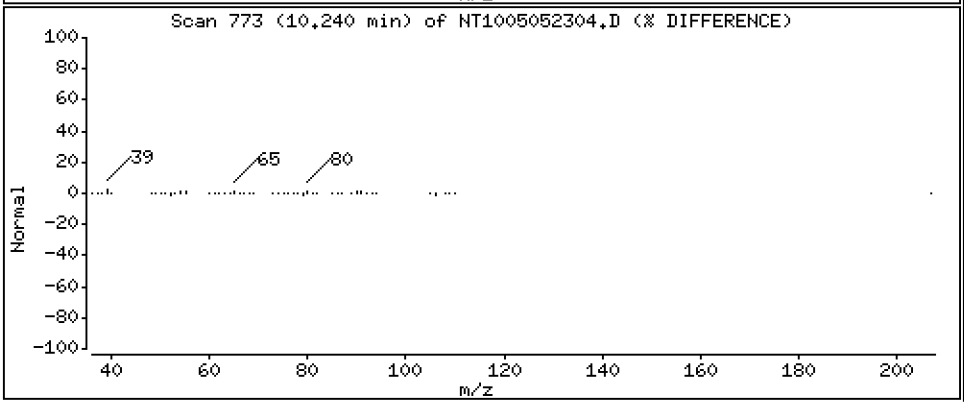












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

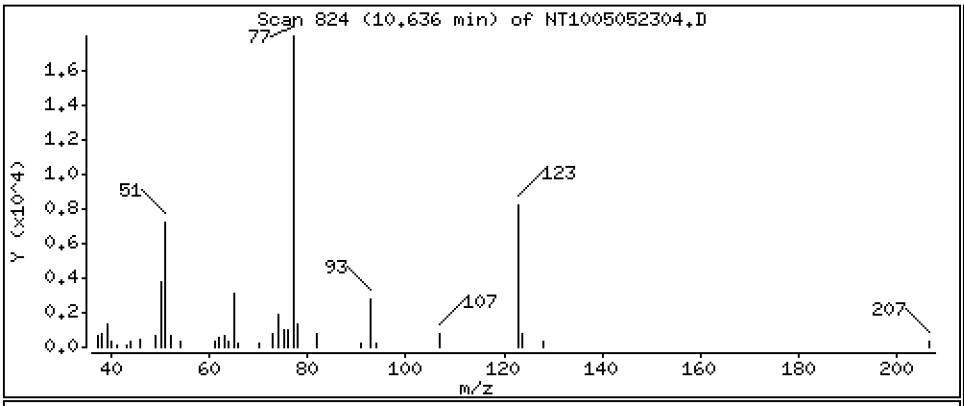
Operator: VTS

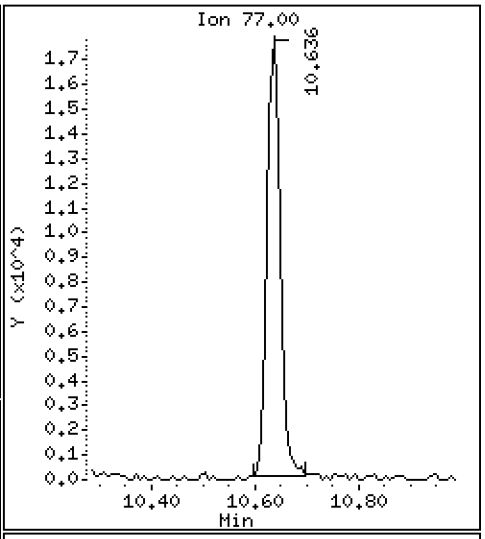
Column phase: ZB-5msi

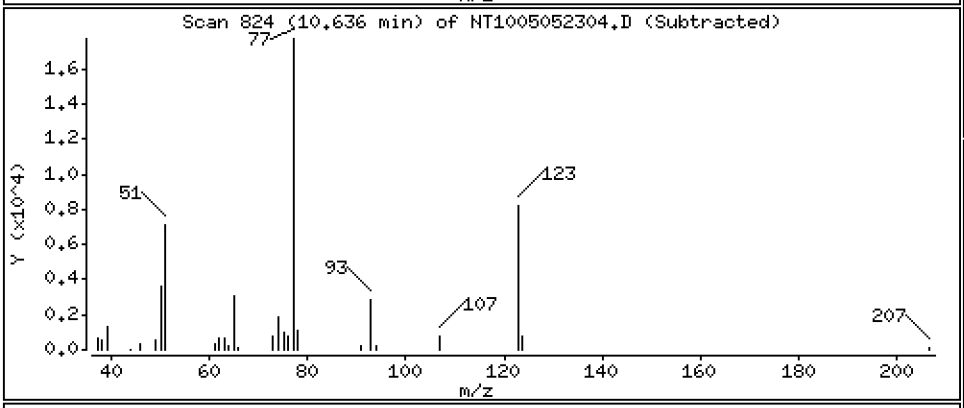
Column diameter: 0.25

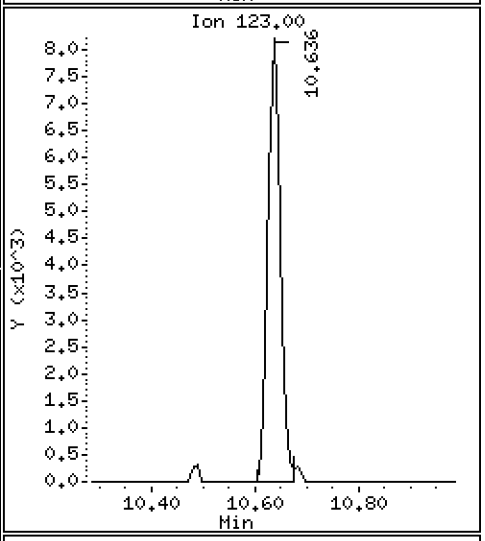
19 Nitrobenzene

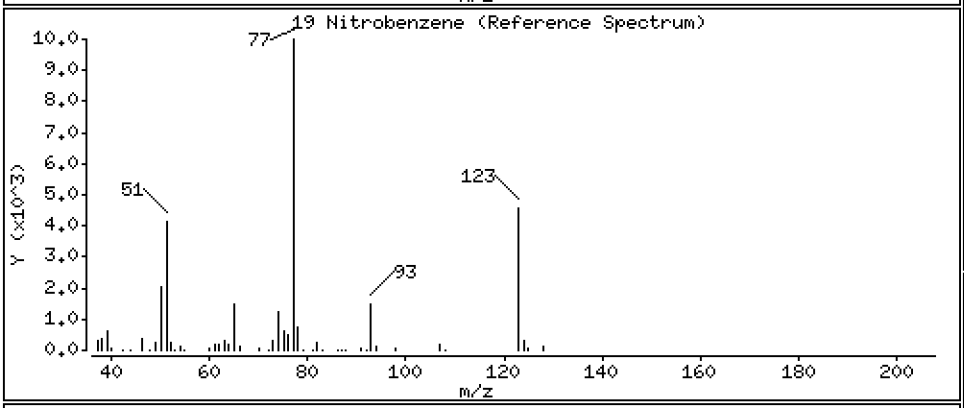
Concentration: 0.4169 ug/mL

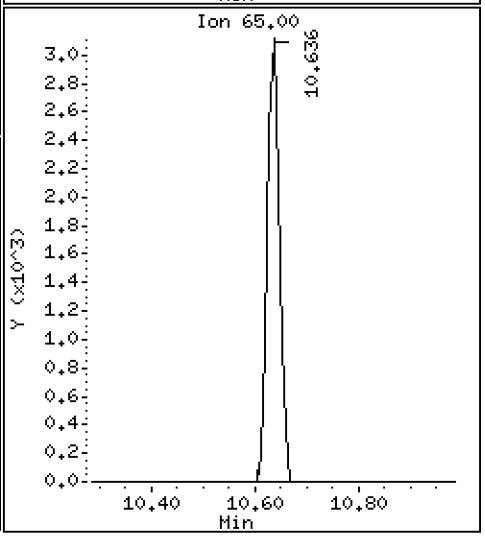


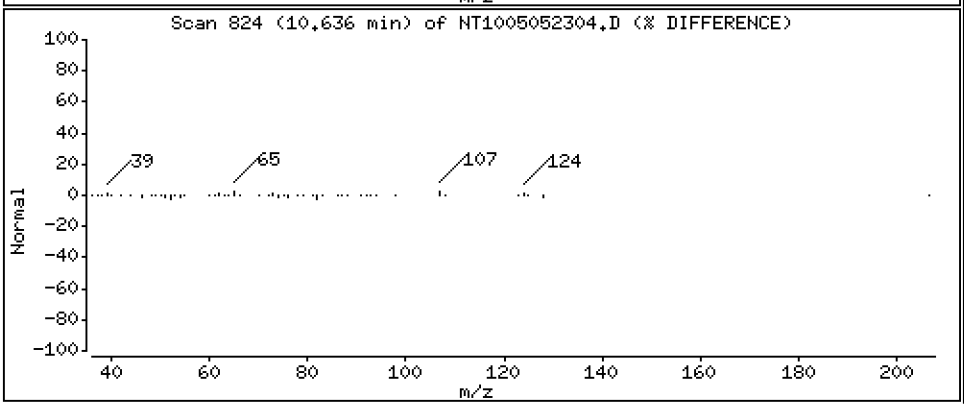












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

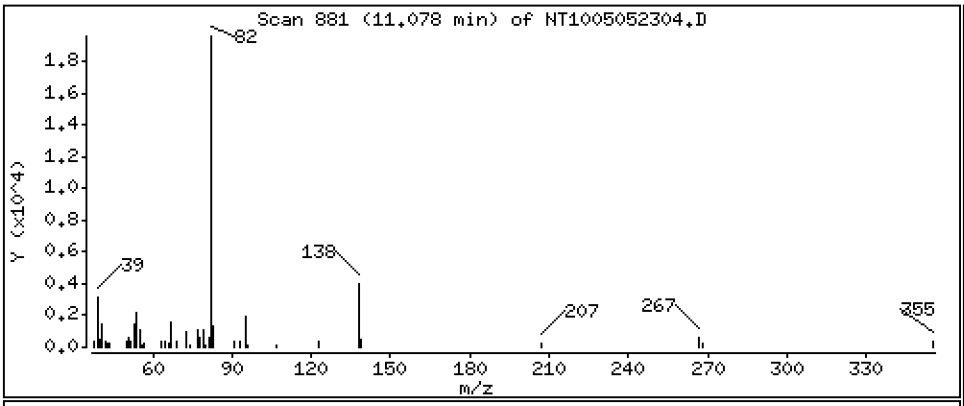
Operator: VTS

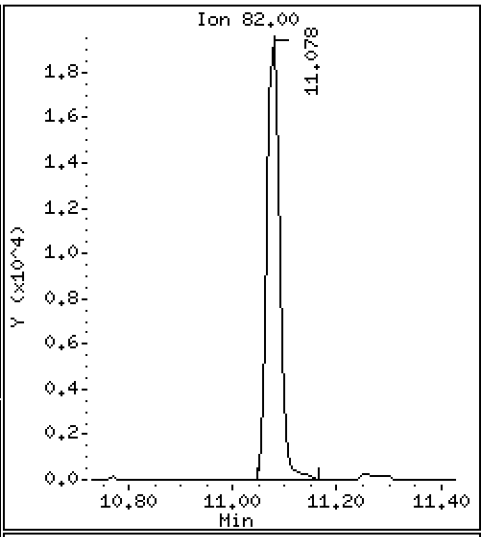
Column phase: ZB-5msi

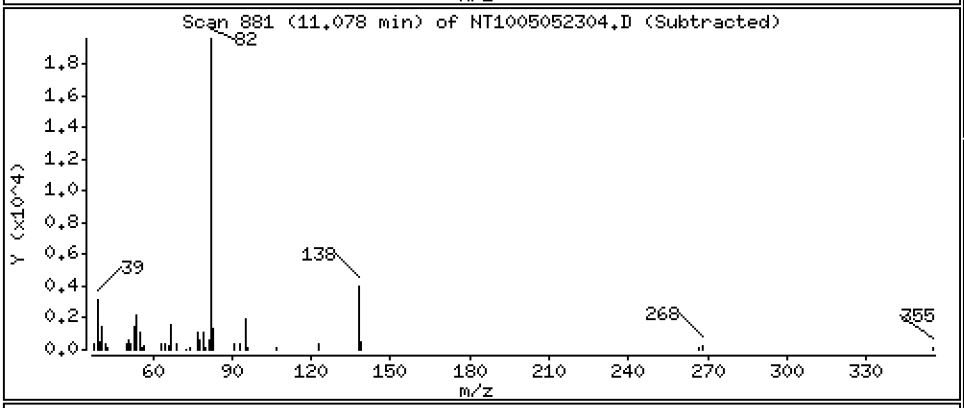
Column diameter: 0.25

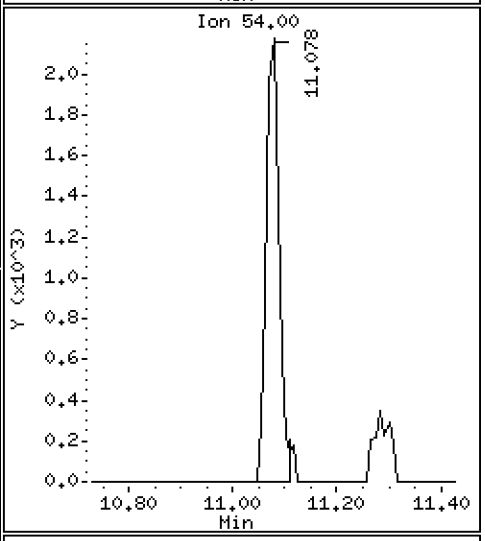
20 Isophorone

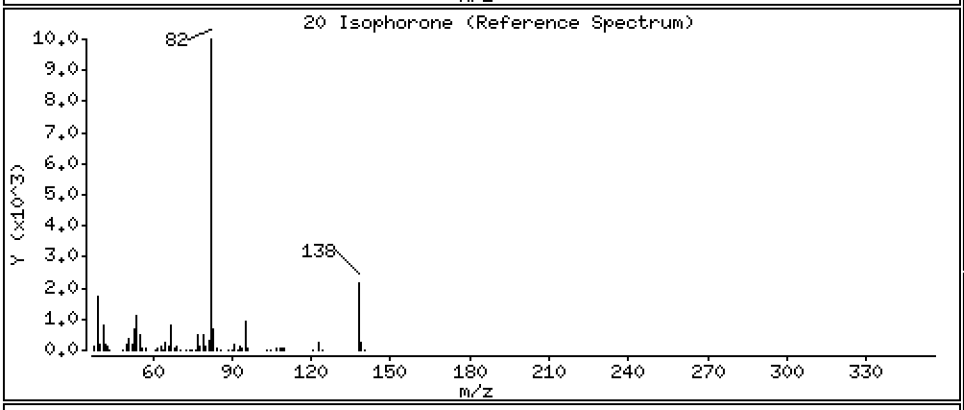
Concentration: 0.4300 ug/mL

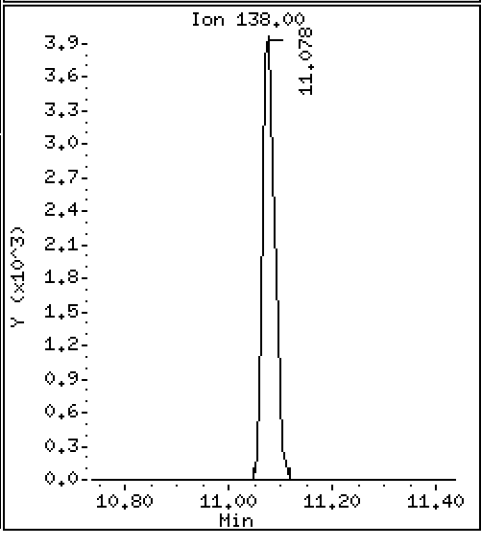


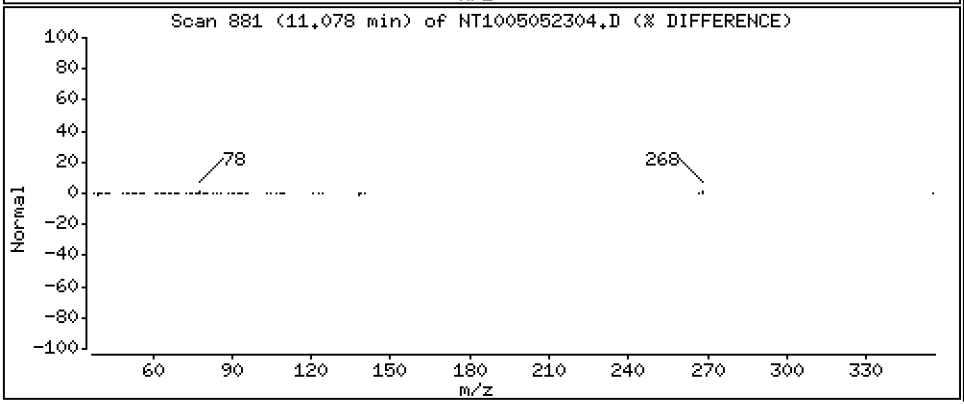












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

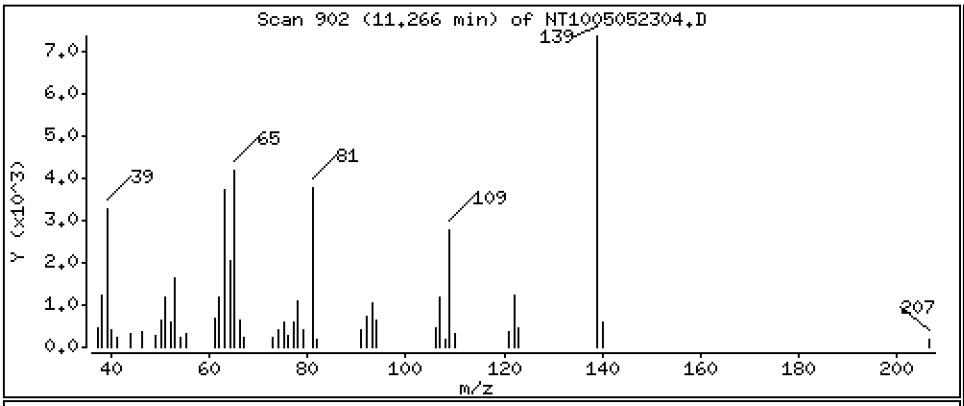
Operator: VTS

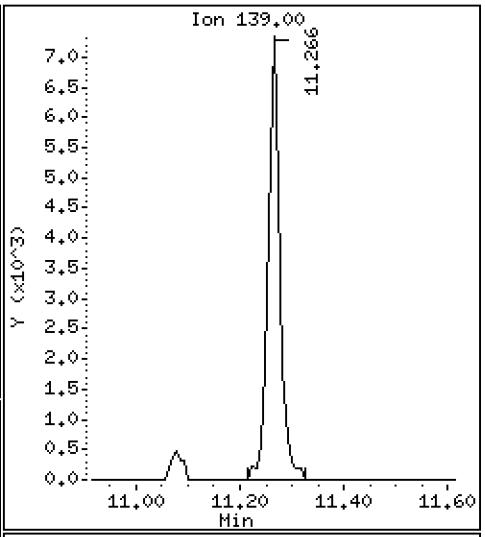
Column phase: ZB-5msi

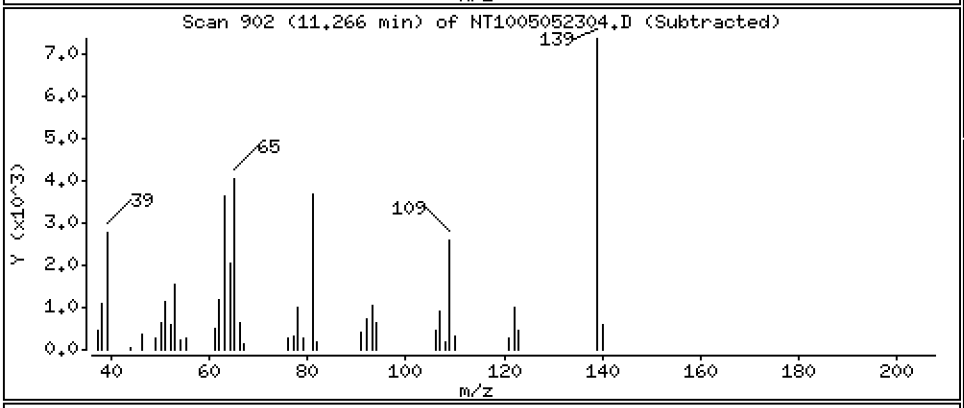
Column diameter: 0.25

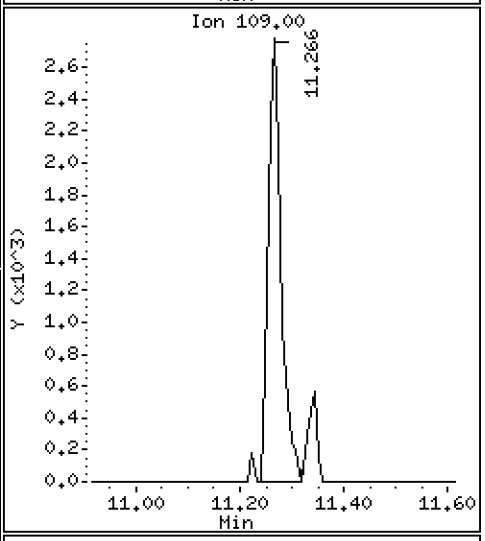
21 2-Nitrophenol

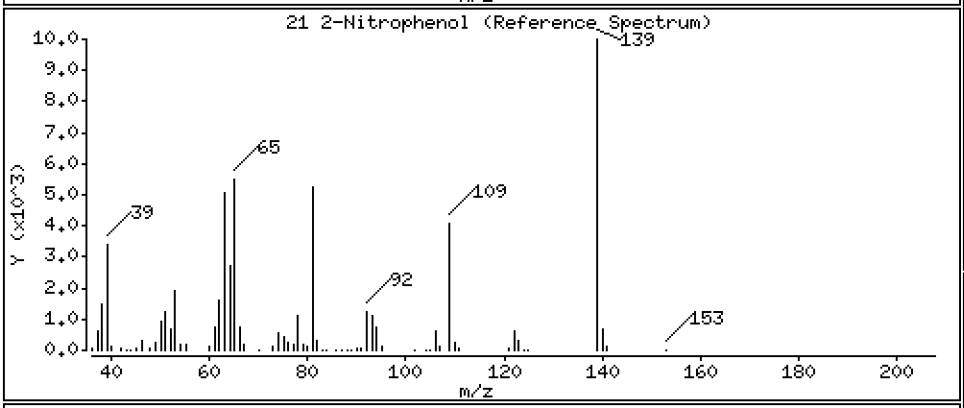
Concentration: 0.3153 ug/mL

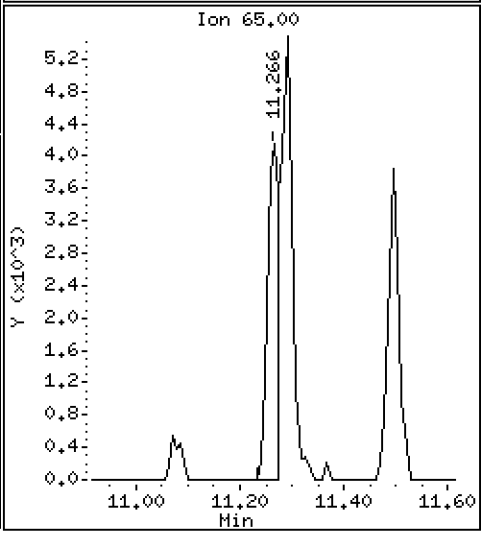


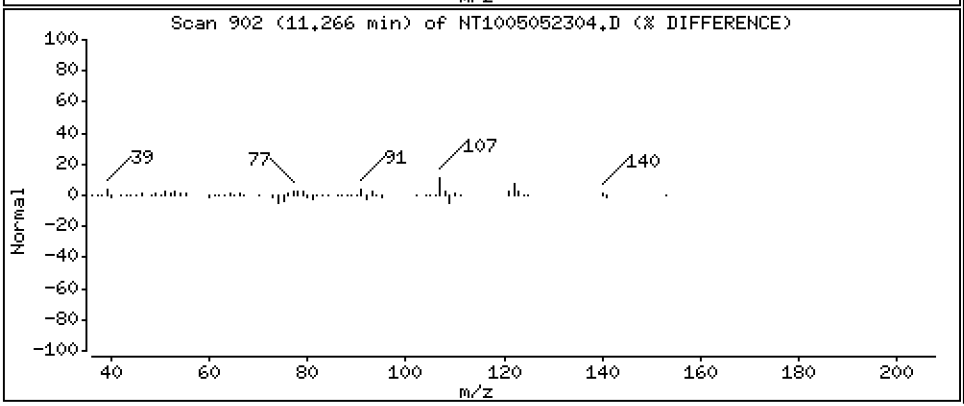












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

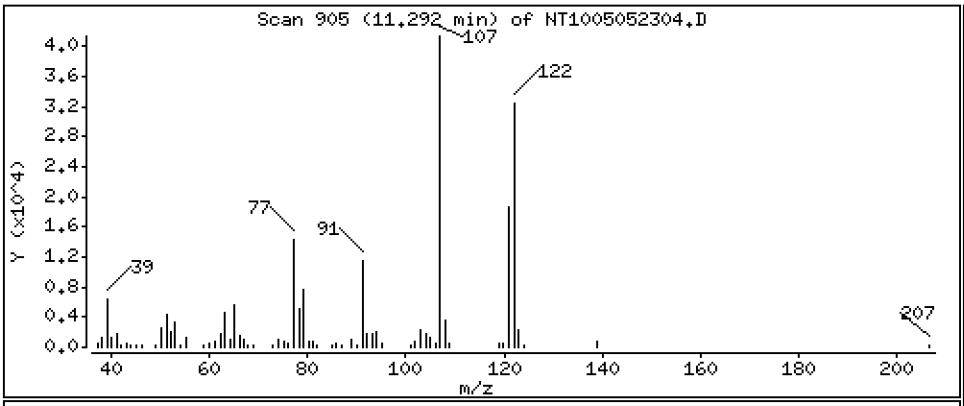
Operator: VTS

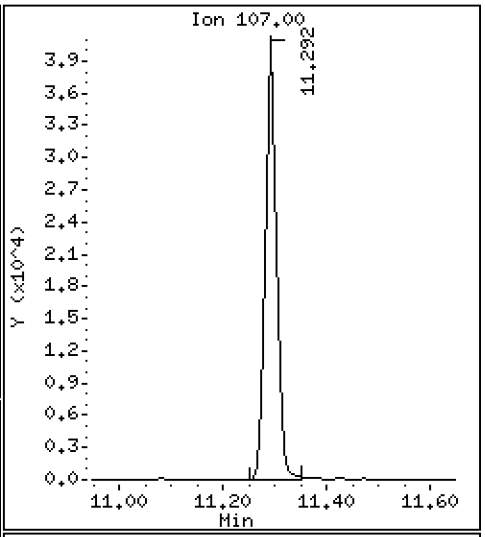
Column phase: ZB-5msi

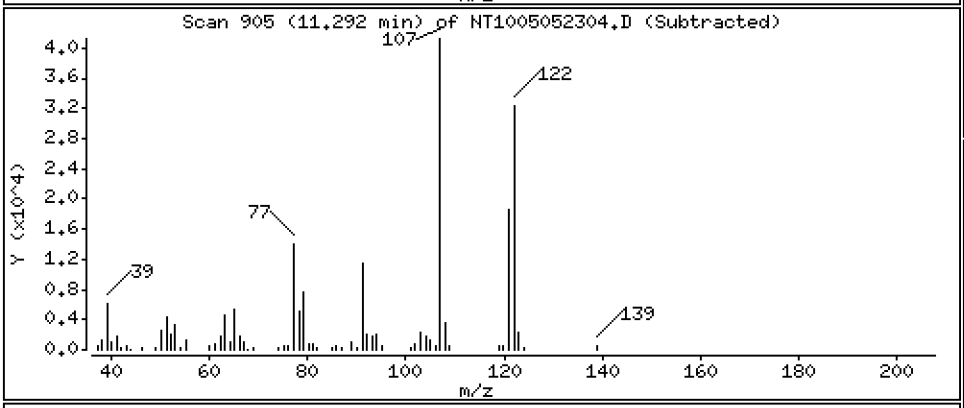
Column diameter: 0.25

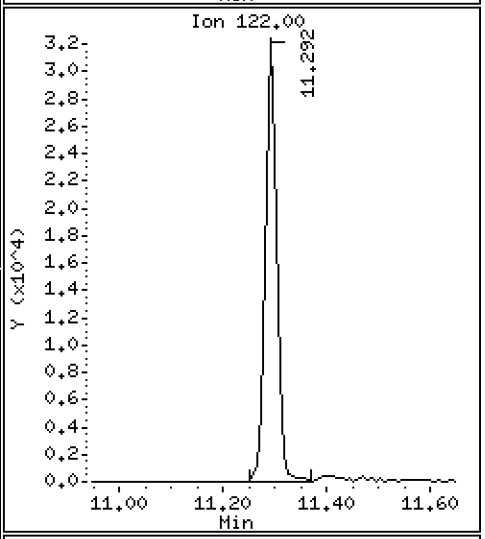
22 2,4-Dimethylphenol

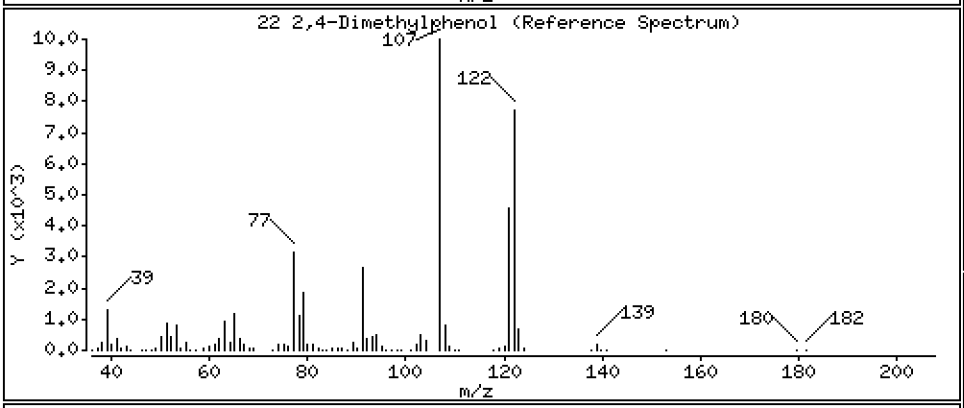
Concentration: 0.8687 ug/mL

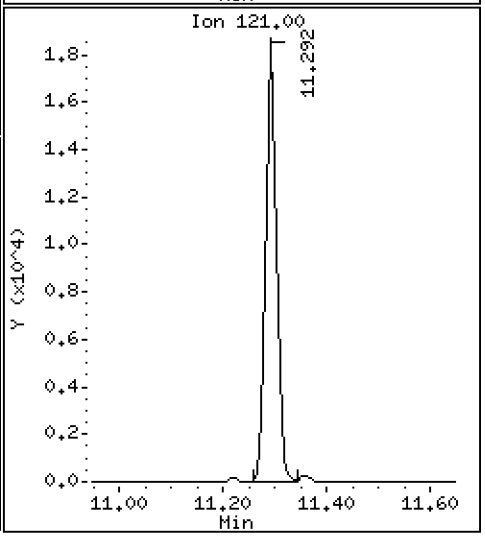


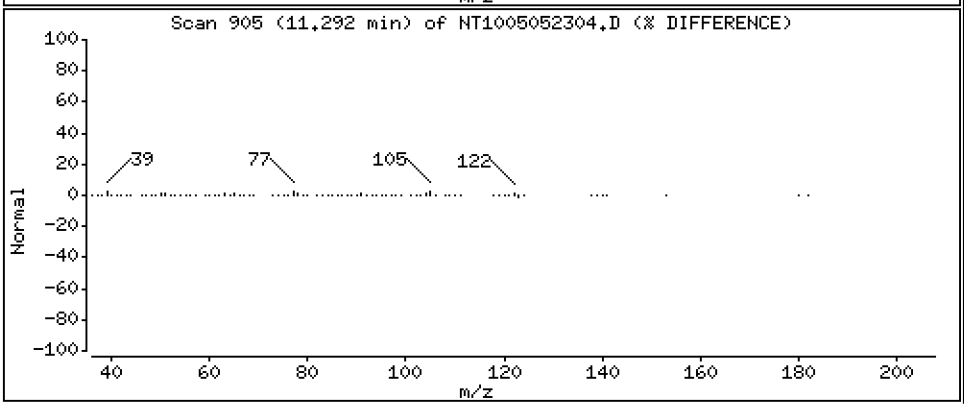












Date : 05-MAY-2023 12:43

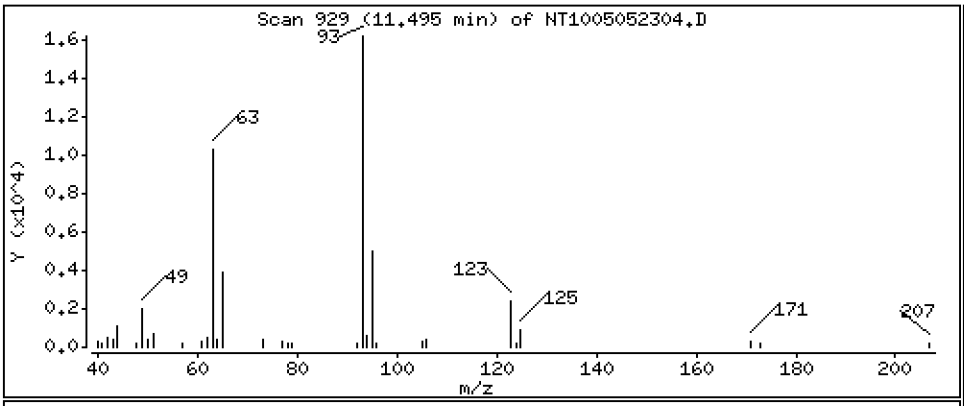
Client ID: Instrument: nt10.i

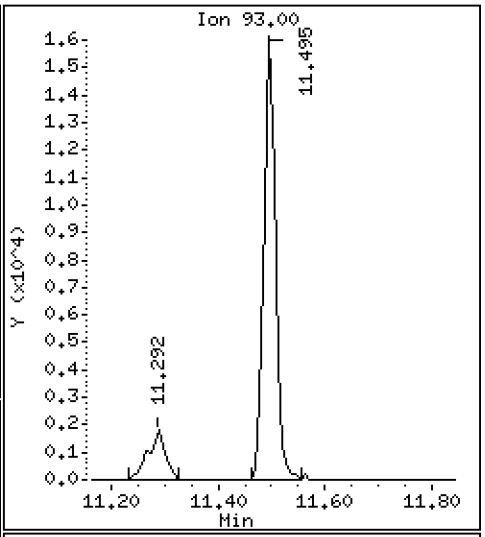
Sample Info: SLE0101-LCV1

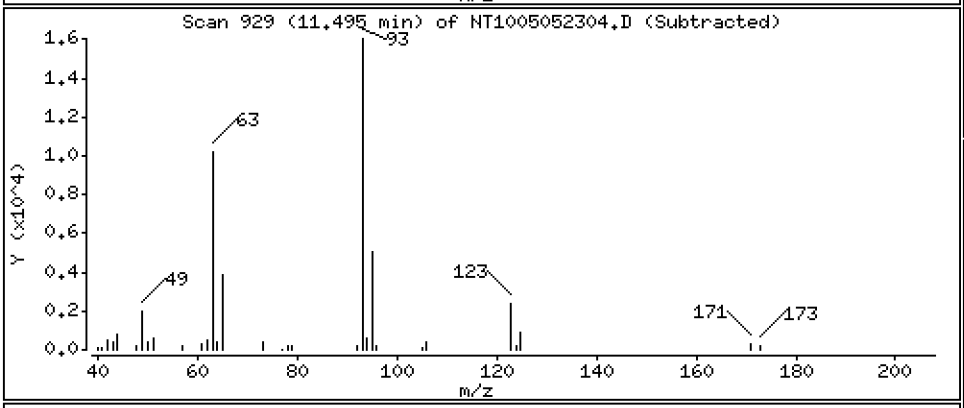
Operator: VTS

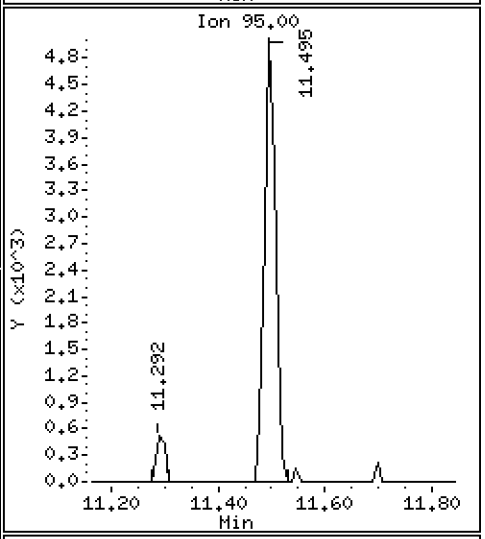
Column phase: ZB-5msi Column diameter: 0.25

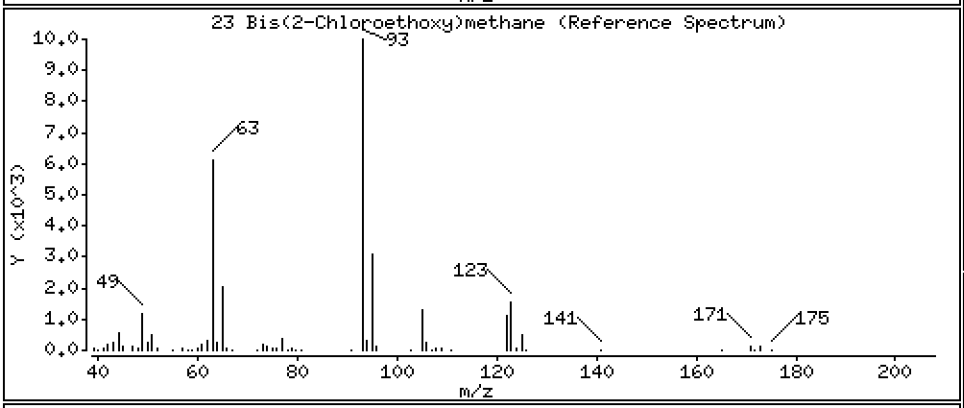
23 Bis(2-Chloroethoxy)methane Concentration: 0.4385 ug/mL

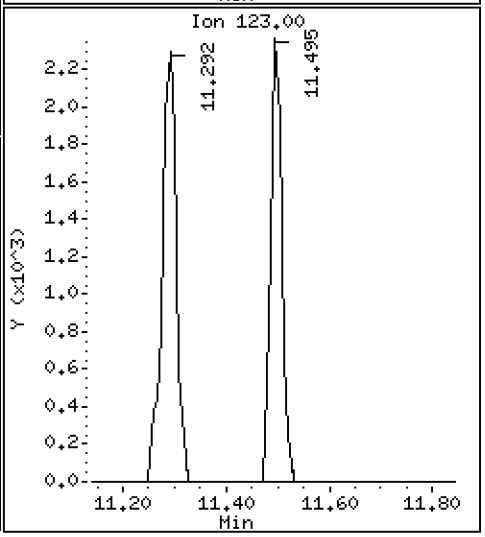


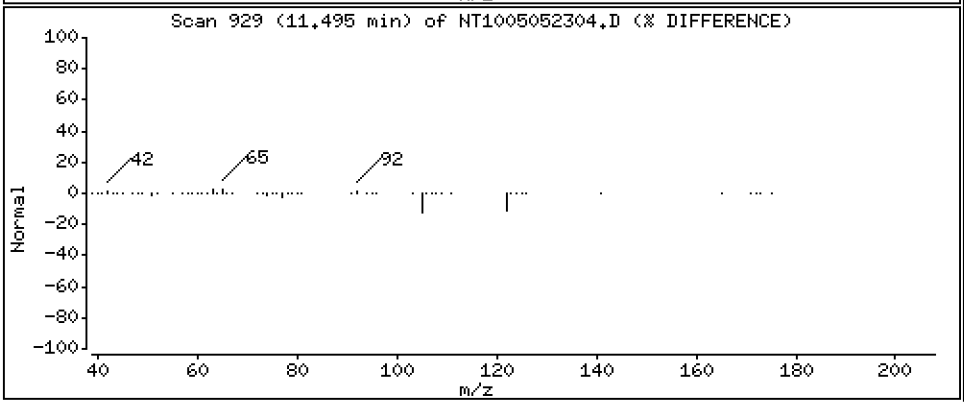












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

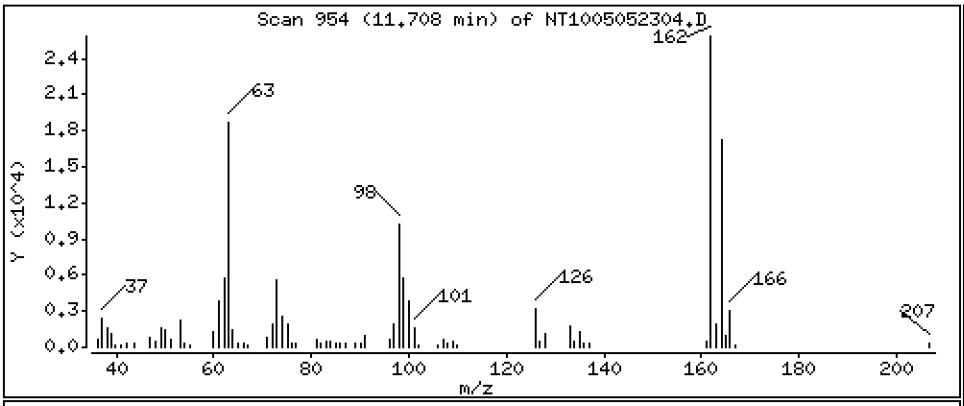
Operator: VTS

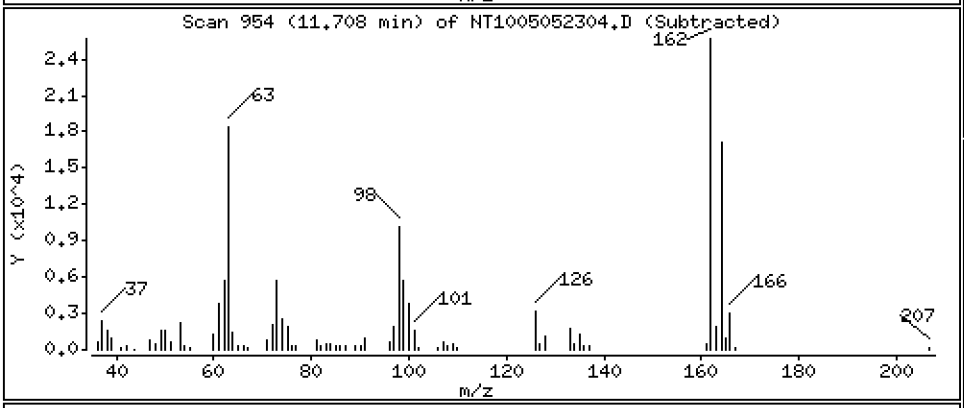
Column phase: ZB-5msi

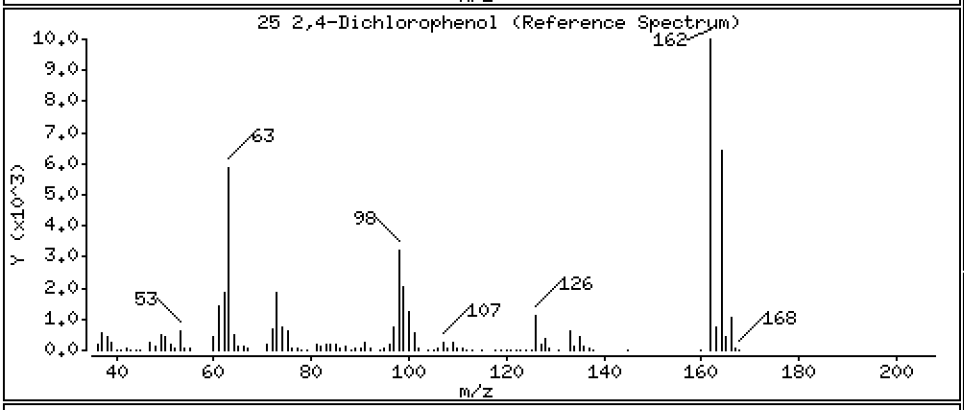
Column diameter: 0.25

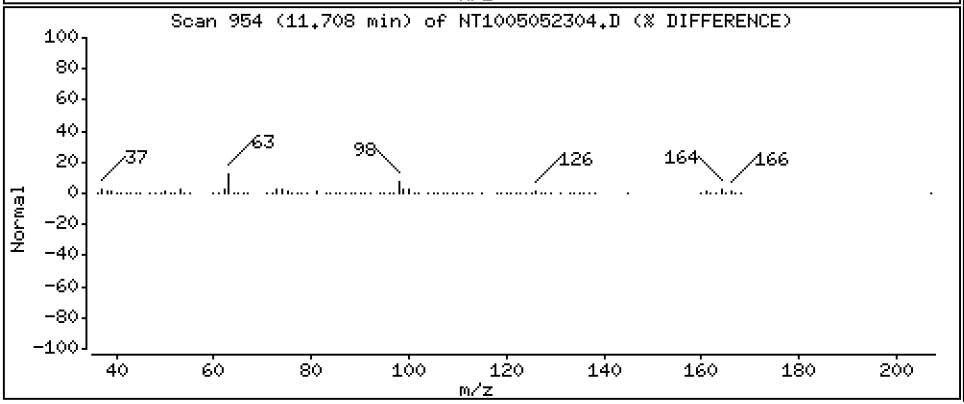
25 2,4-Dichlorophenol

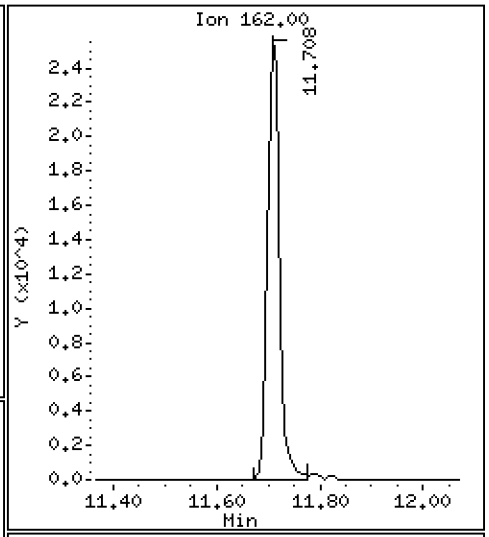
Concentration: 0.7646 ug/mL

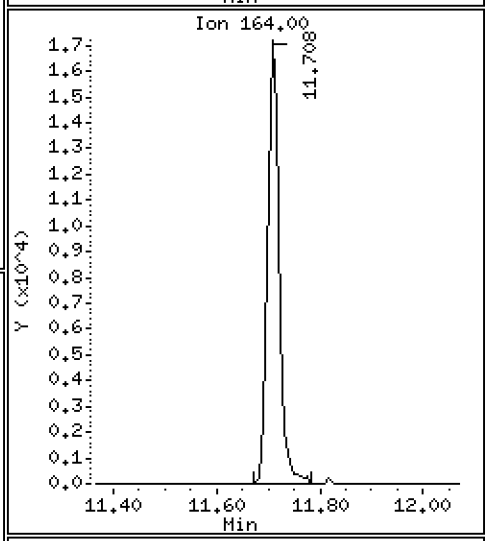


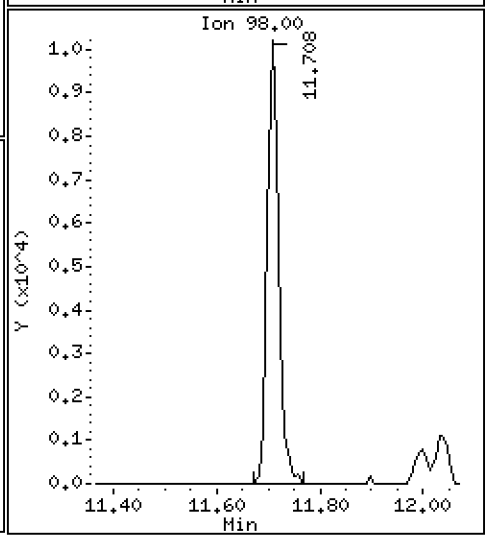












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

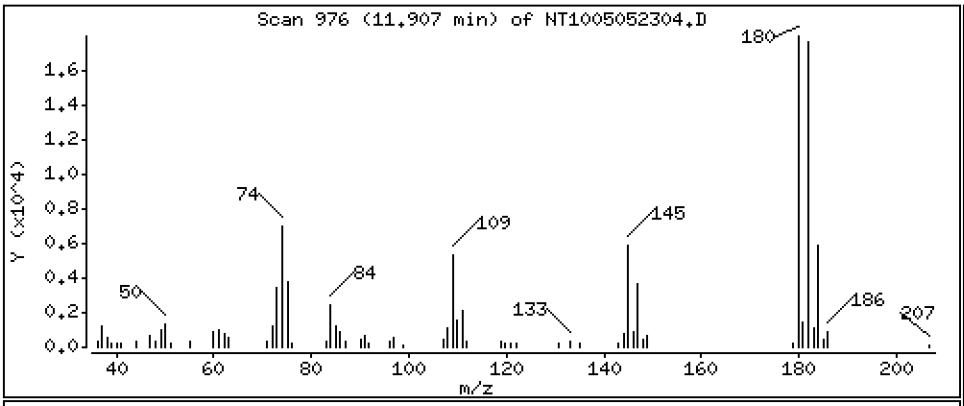
Operator: VTS

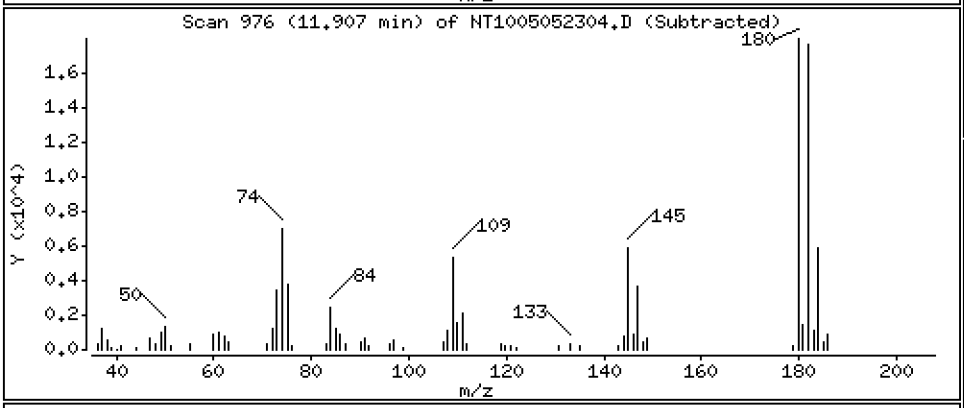
Column phase: ZB-5msi

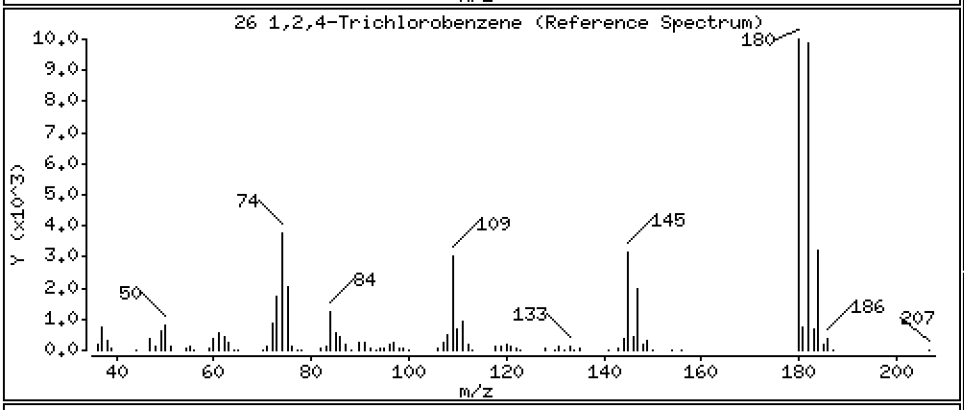
Column diameter: 0.25

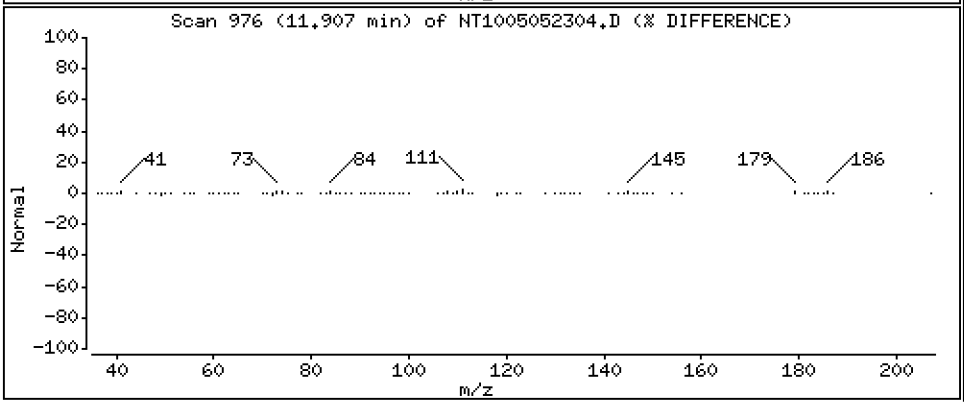
26 1,2,4-Trichlorobenzene

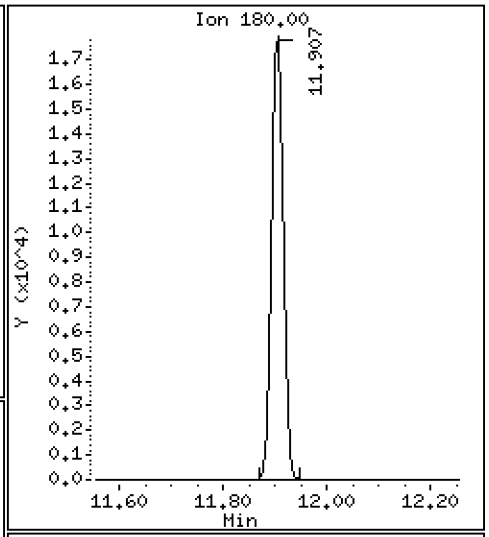
Concentration: 0.3801 ug/mL

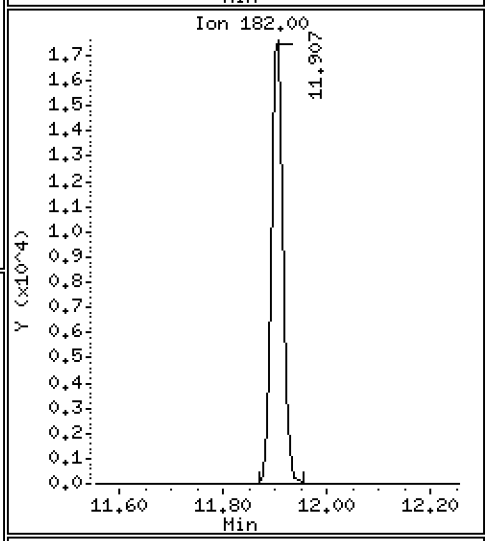


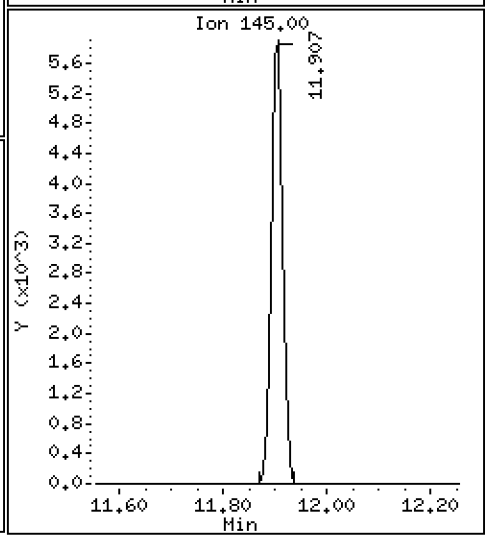












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

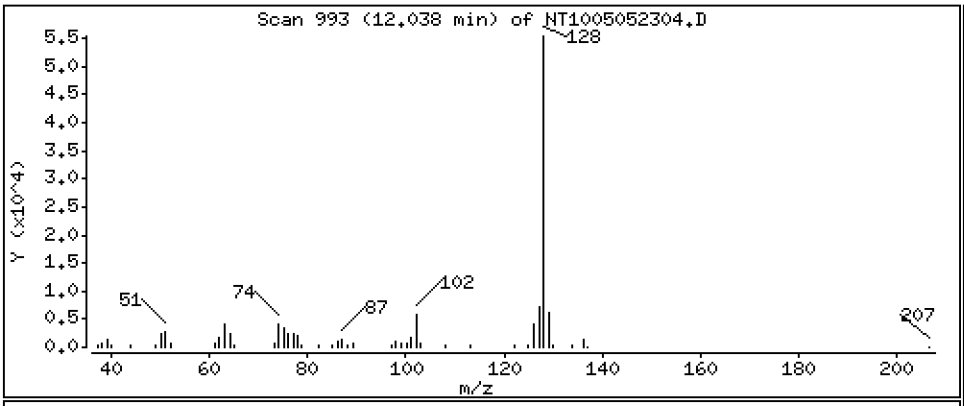
Operator: VTS

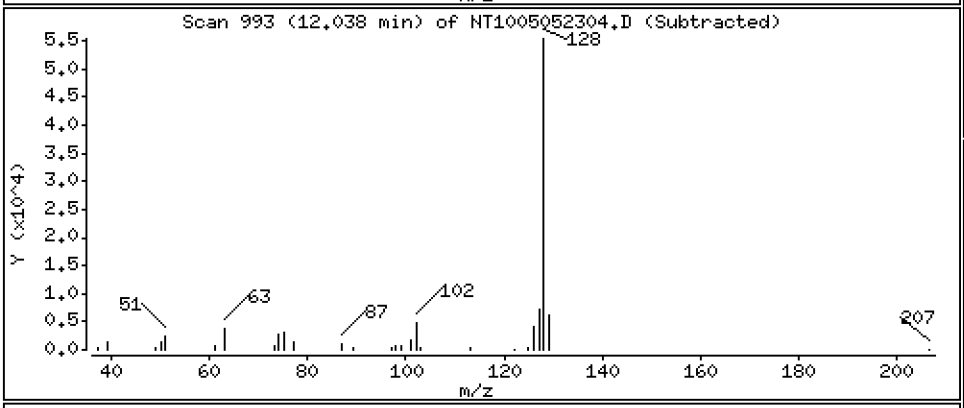
Column phase: ZB-5msi

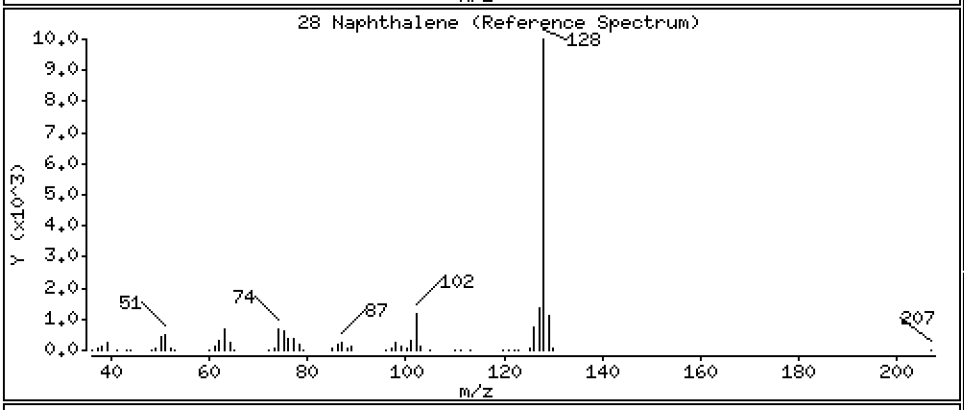
Column diameter: 0.25

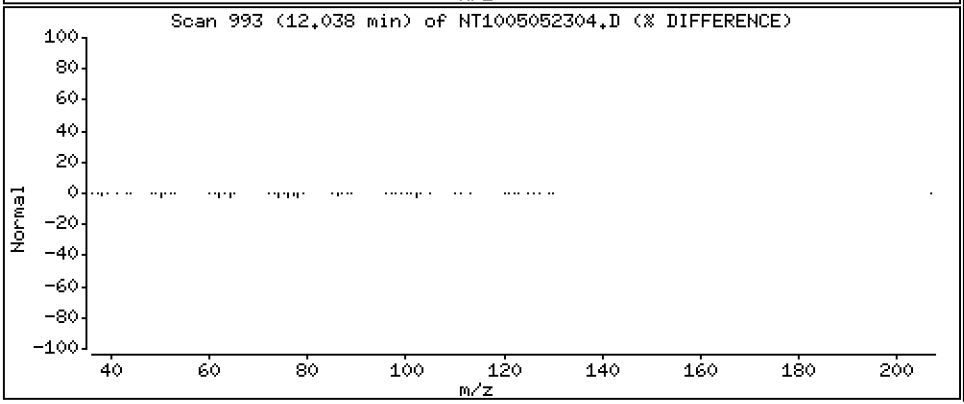
28 Naphthalene

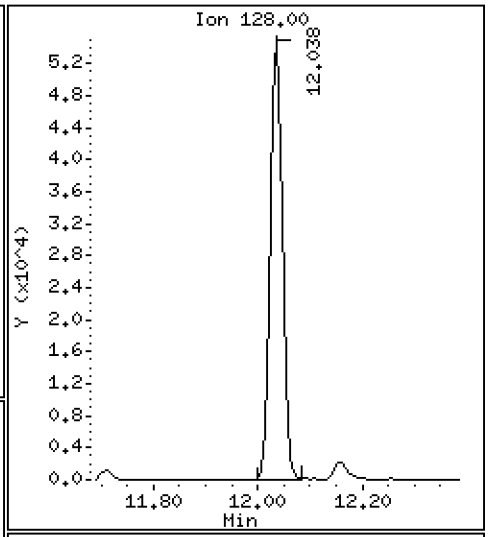
Concentration: 0.4573 ug/mL

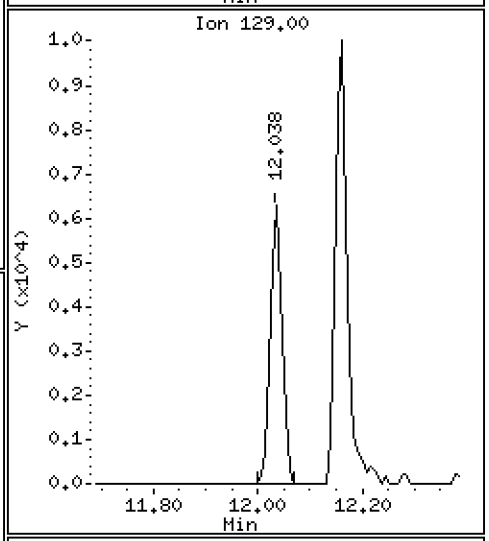


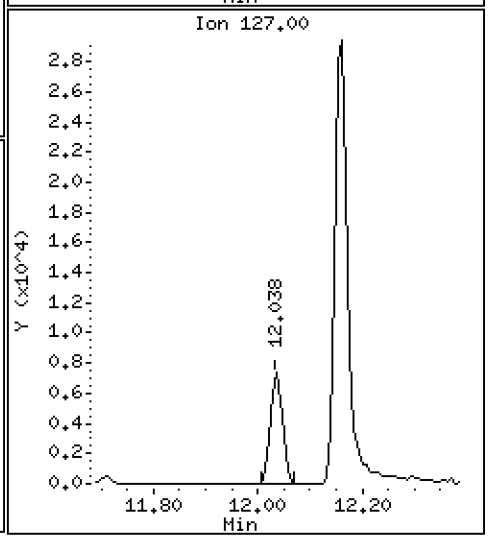












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

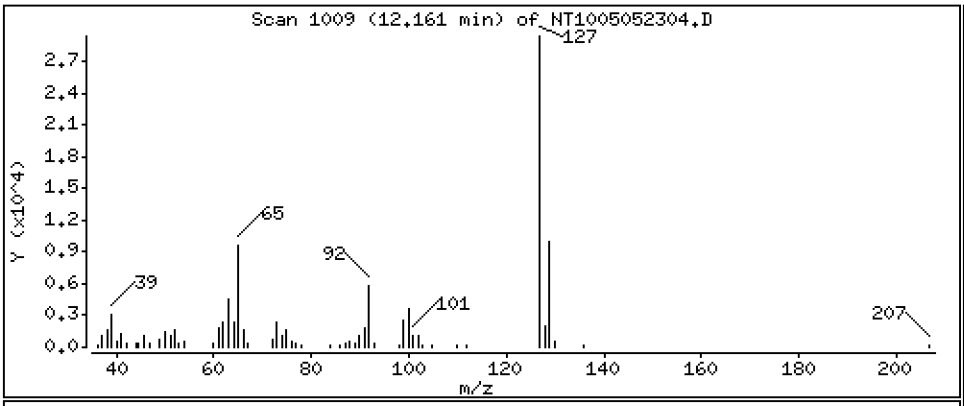
Operator: VTS

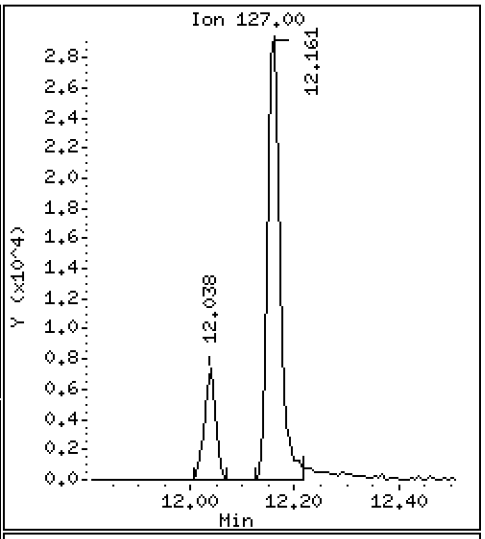
Column phase: ZB-5msi

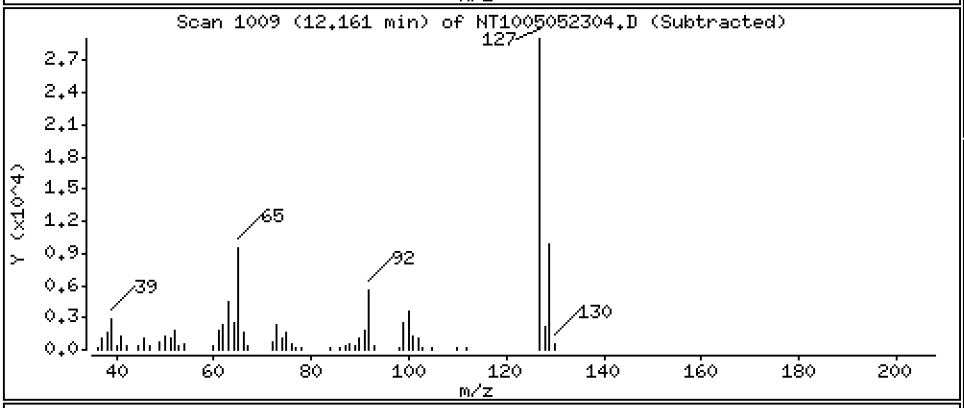
Column diameter: 0.25

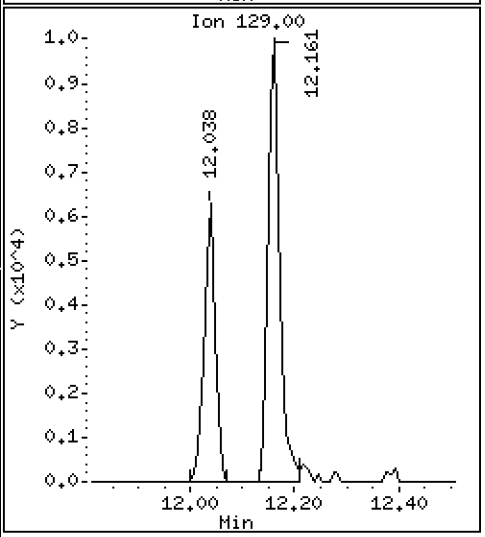
29 4-Chloroaniline

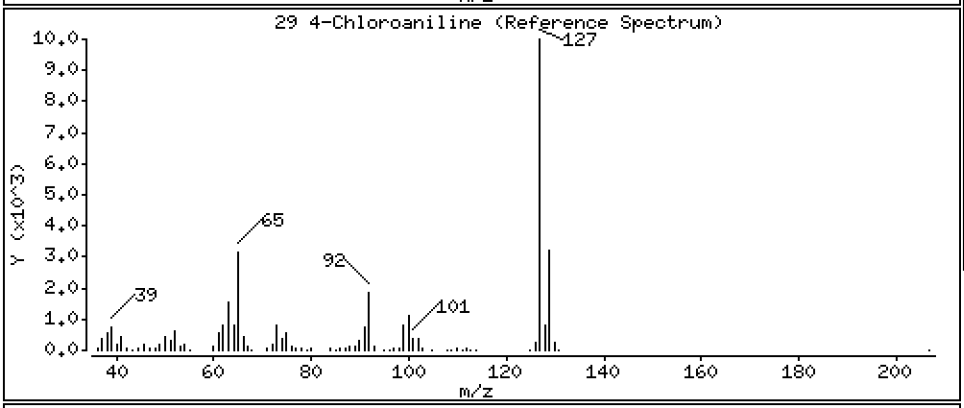
Concentration: 0.7710 ug/mL

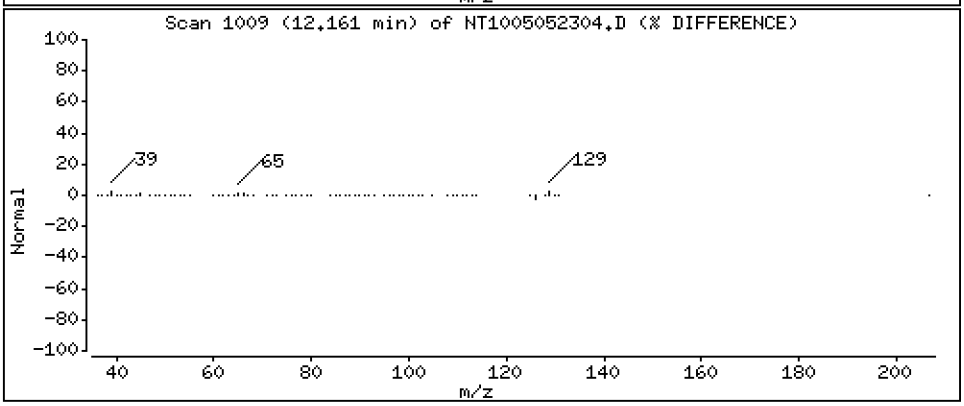












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

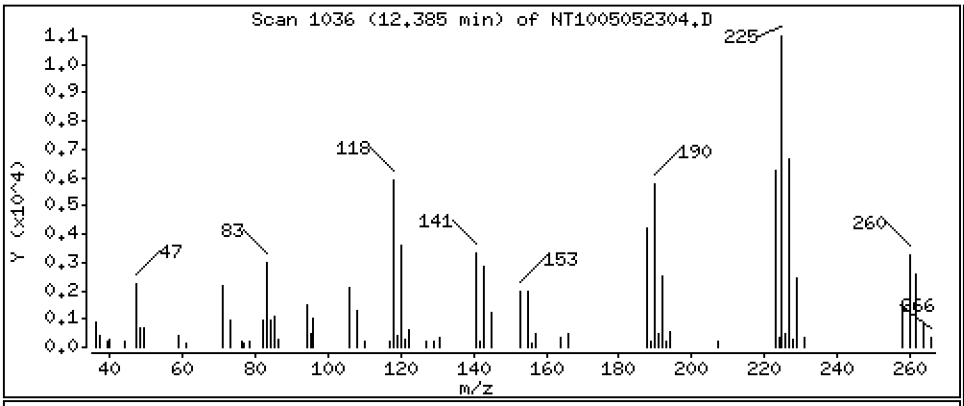
Operator: VTS

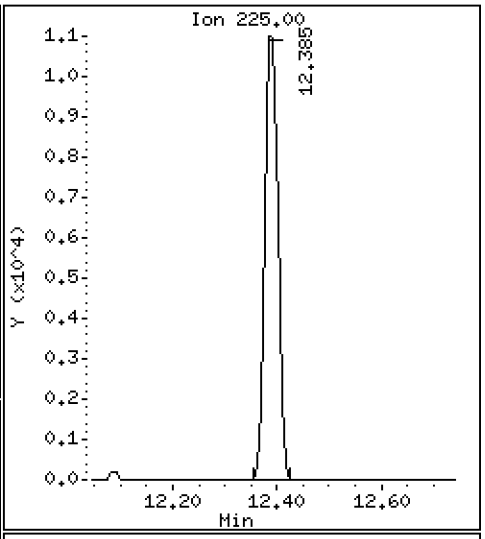
Column phase: ZB-5msi

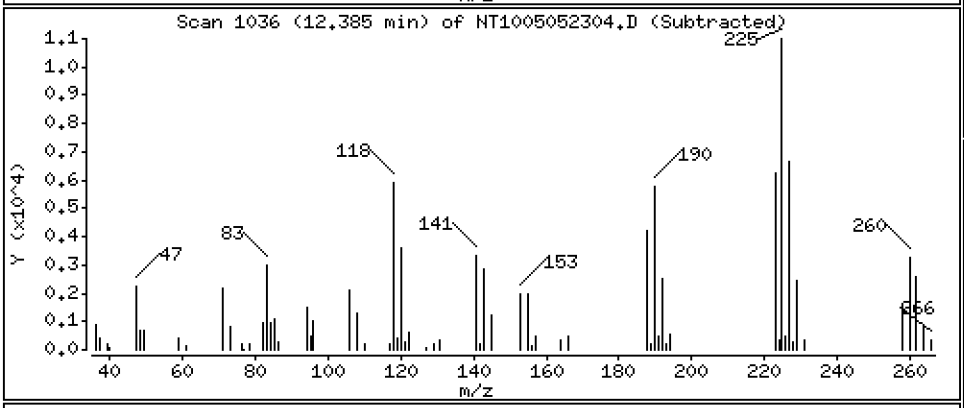
Column diameter: 0.25

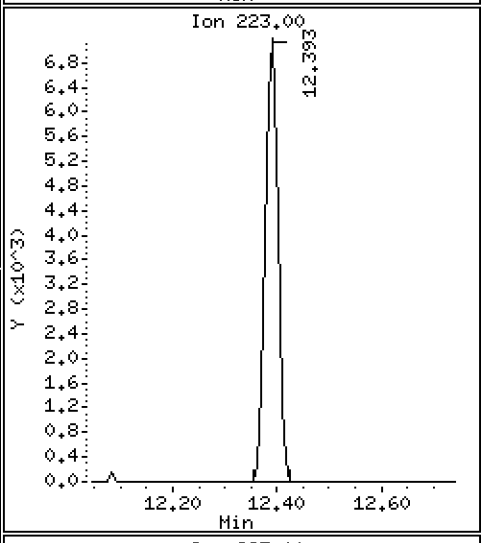
30 Hexachlorobutadiene

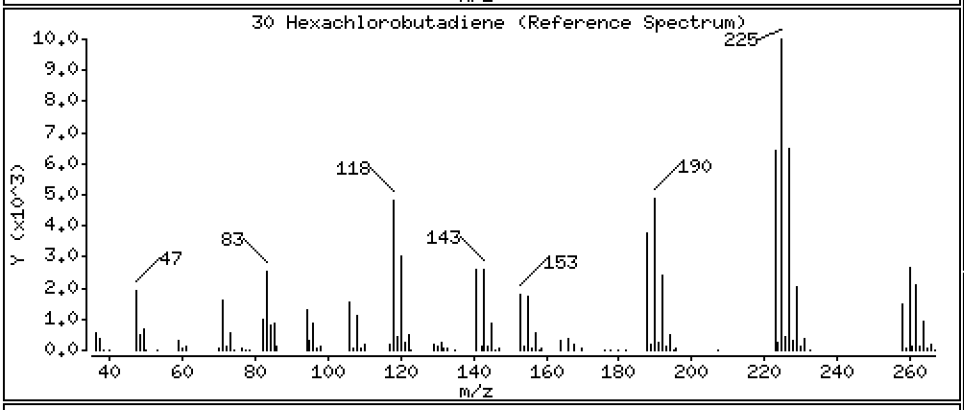
Concentration: 0.4248 ug/mL

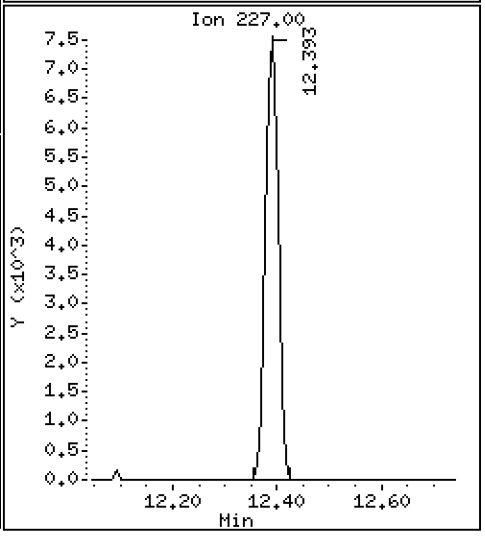


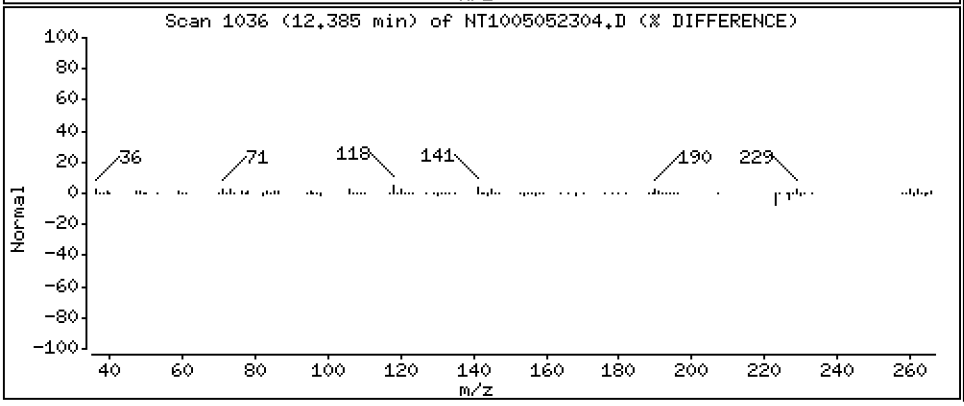












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

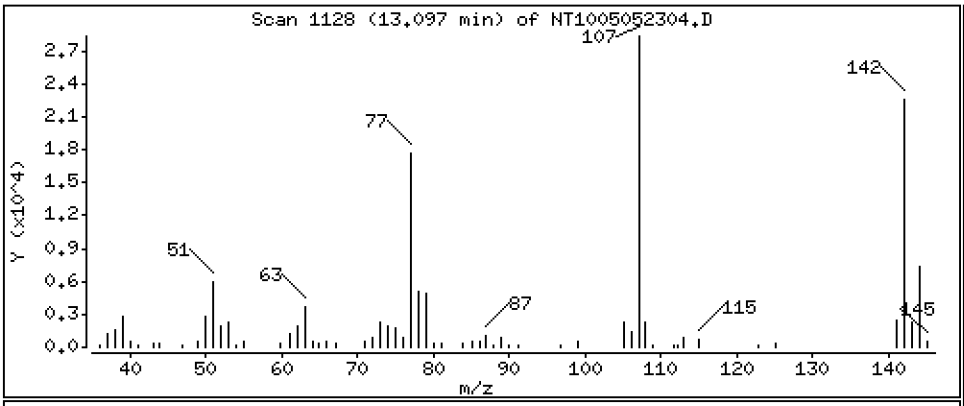
Operator: VTS

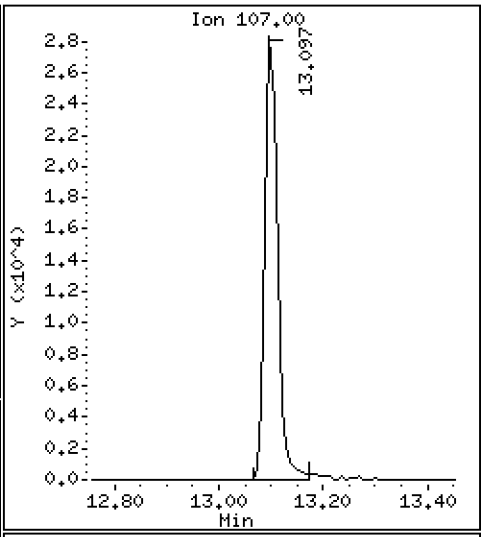
Column phase: ZB-5msi

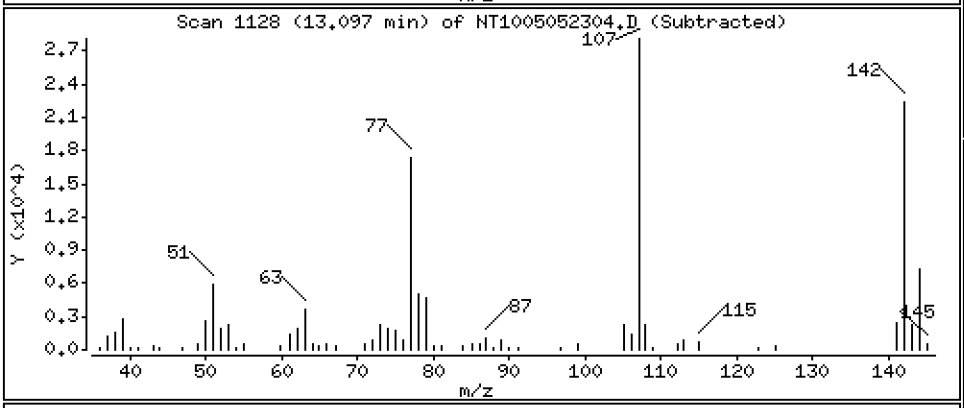
Column diameter: 0.25

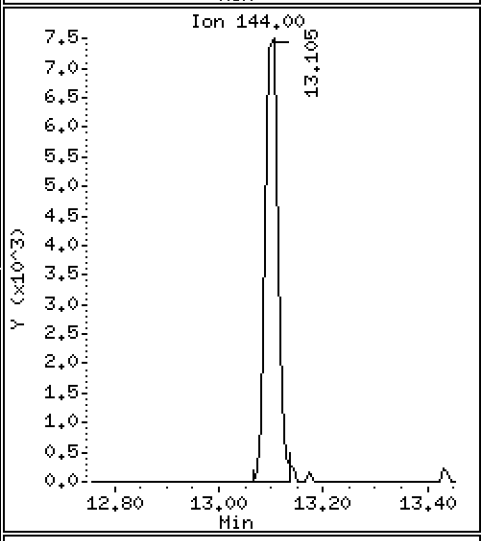
31 4-Chloro-3-methylphenol

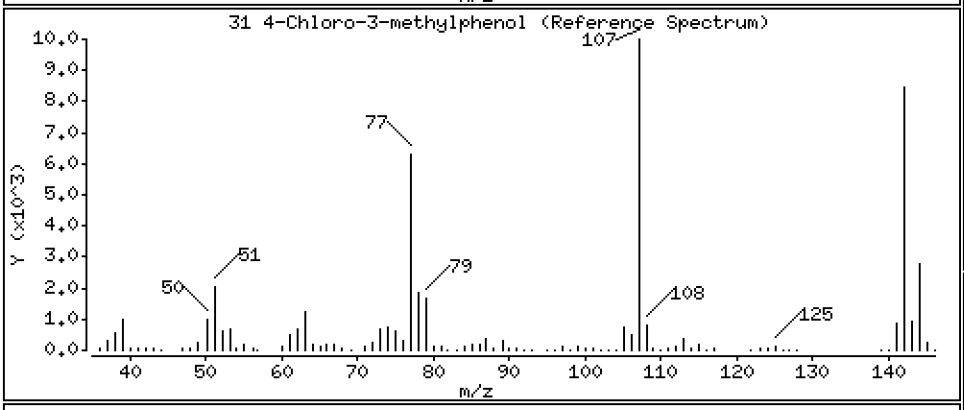
Concentration: 0.7661 ug/mL

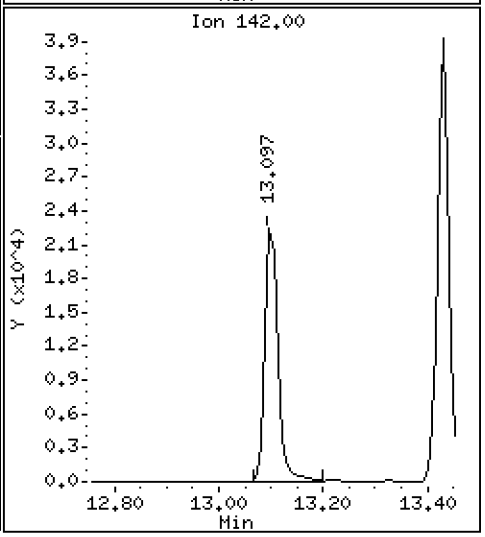


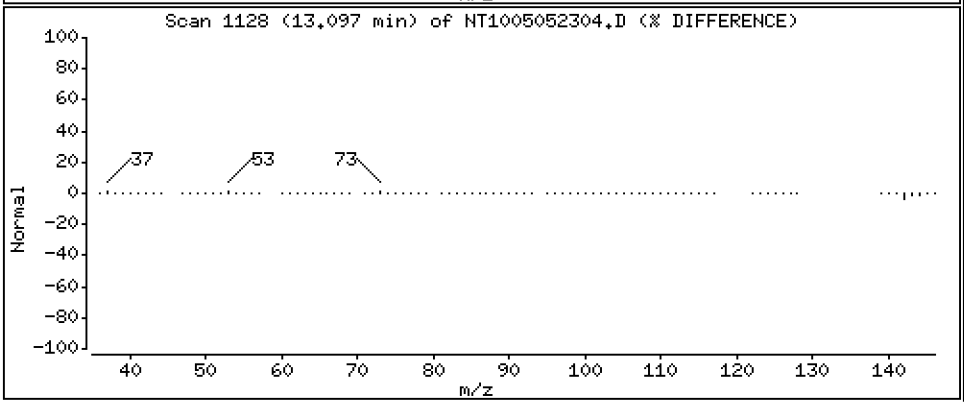












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

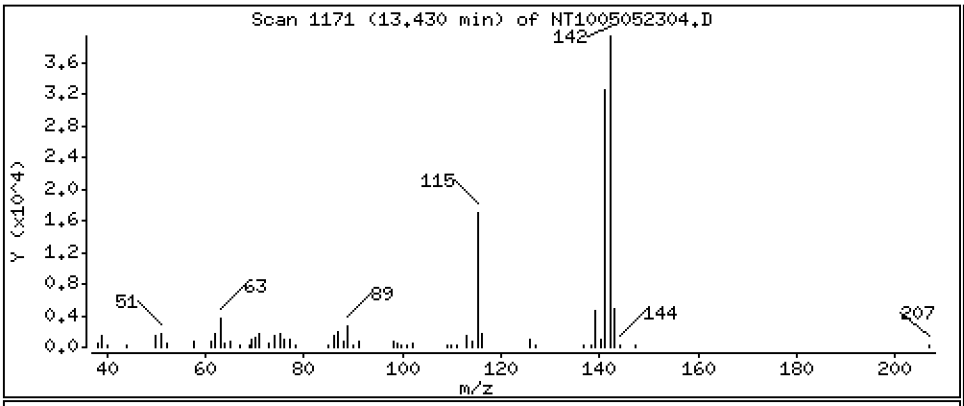
Operator: VTS

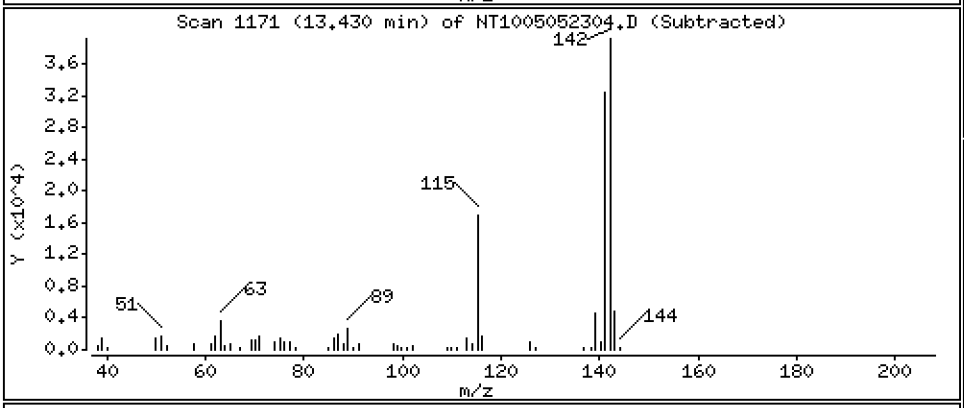
Column phase: ZB-5msi

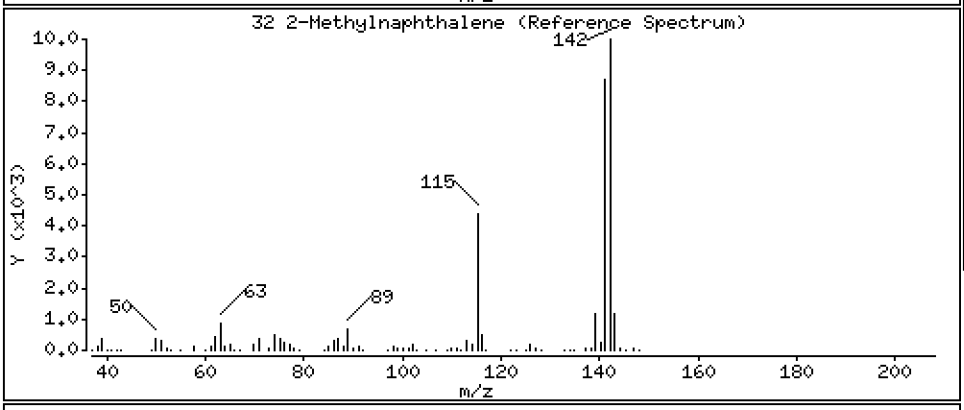
Column diameter: 0.25

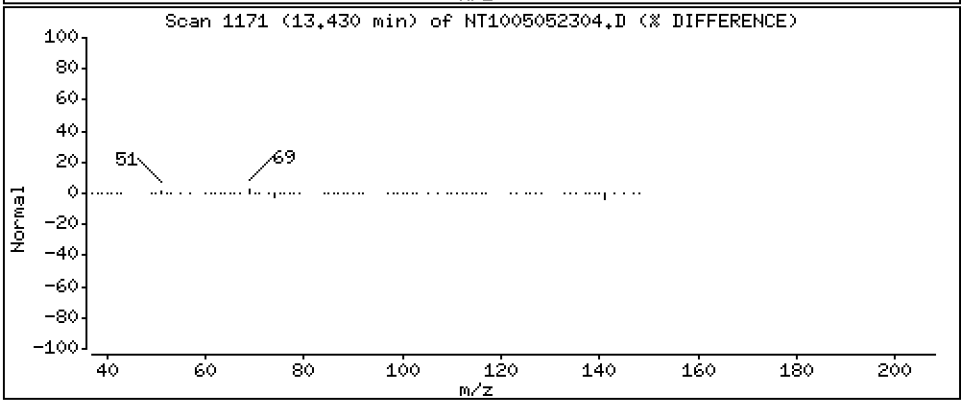
32 2-Methylnaphthalene

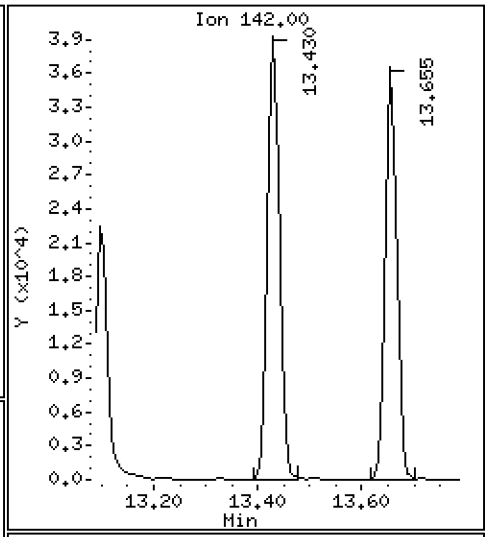
Concentration: 0.4328 ug/mL

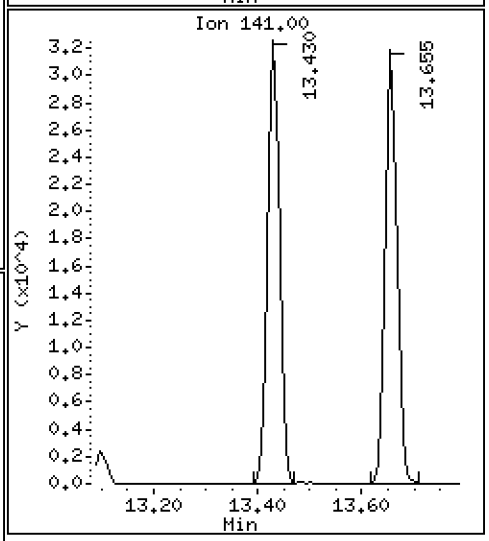












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

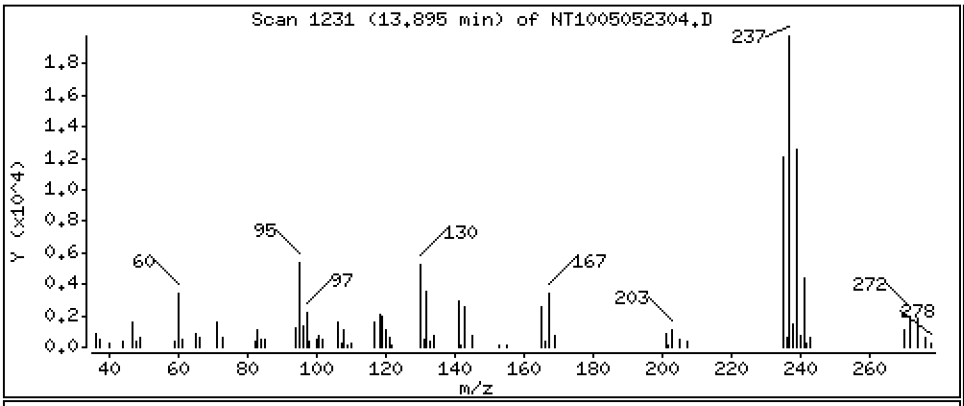
Operator: VTS

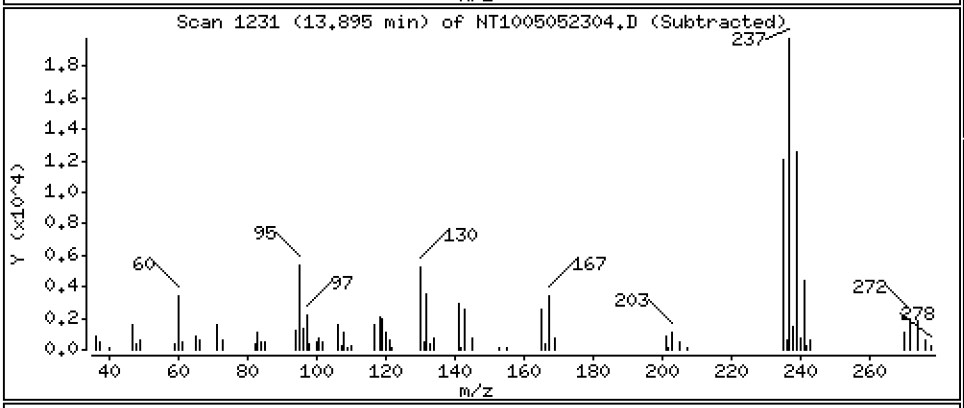
Column phase: ZB-5msi

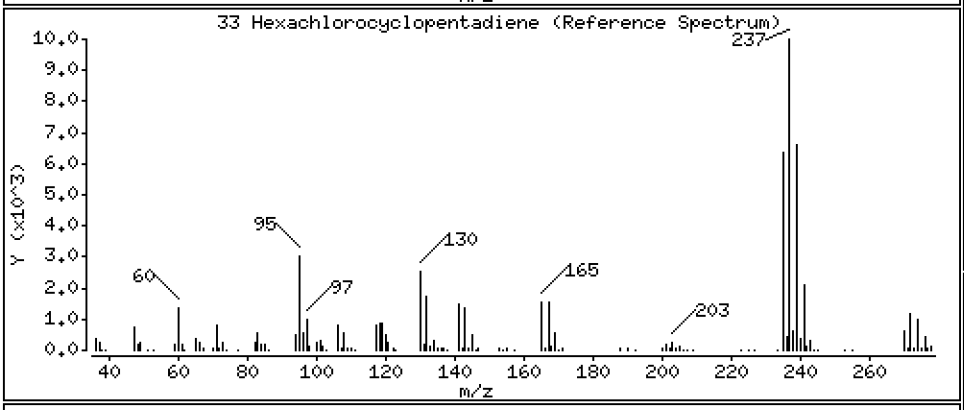
Column diameter: 0.25

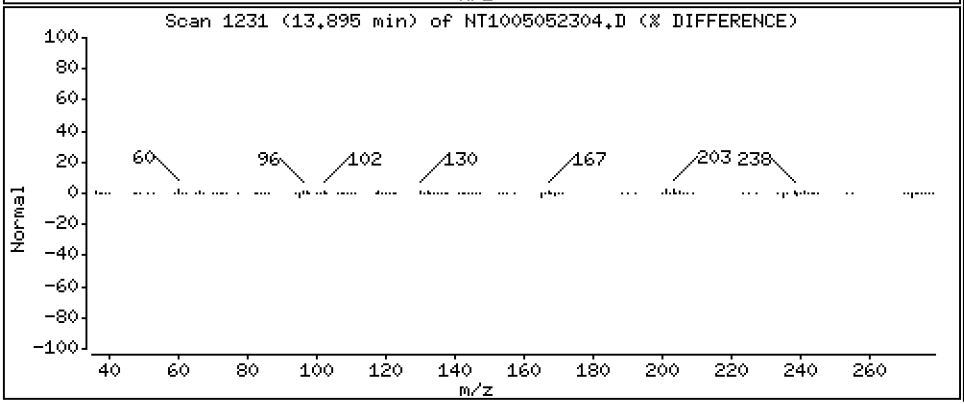
33 Hexachlorocyclopentadiene

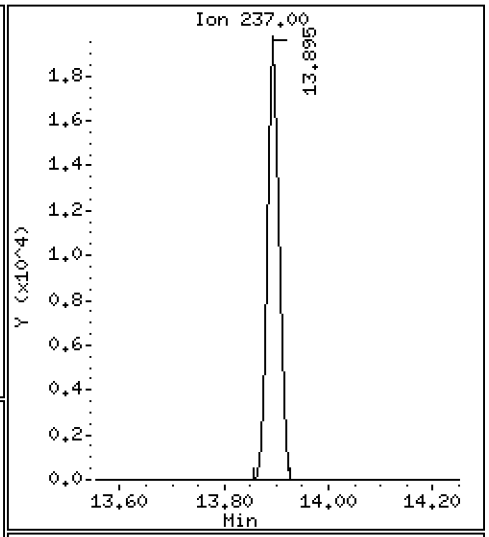
Concentration: 0.6605 ug/mL

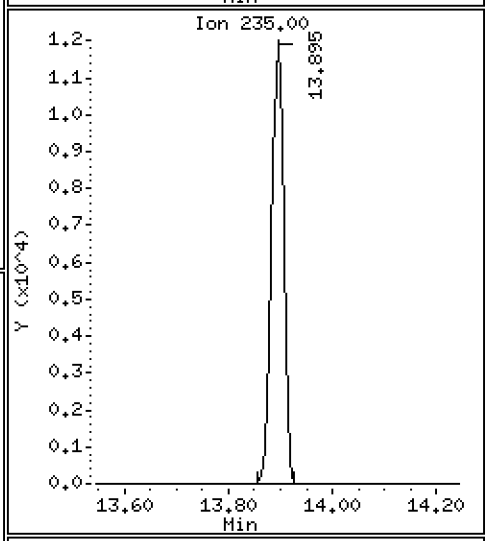


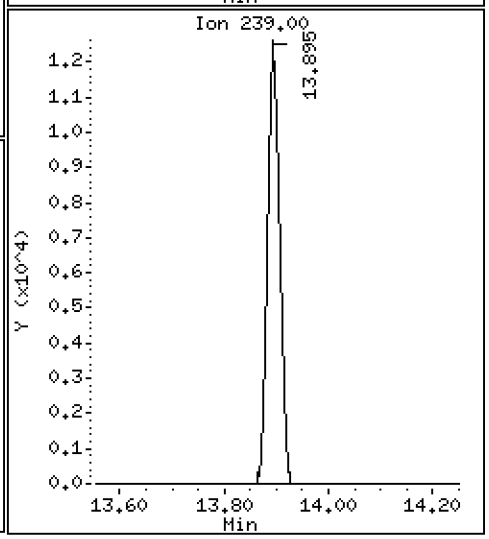












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

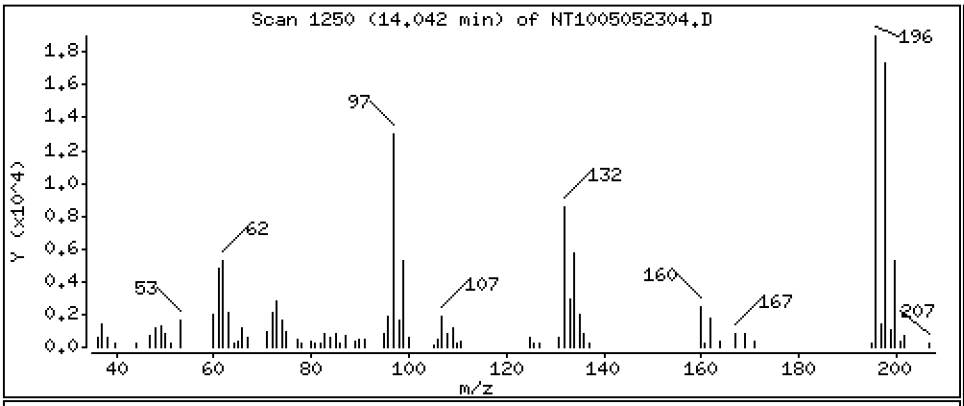
Operator: VTS

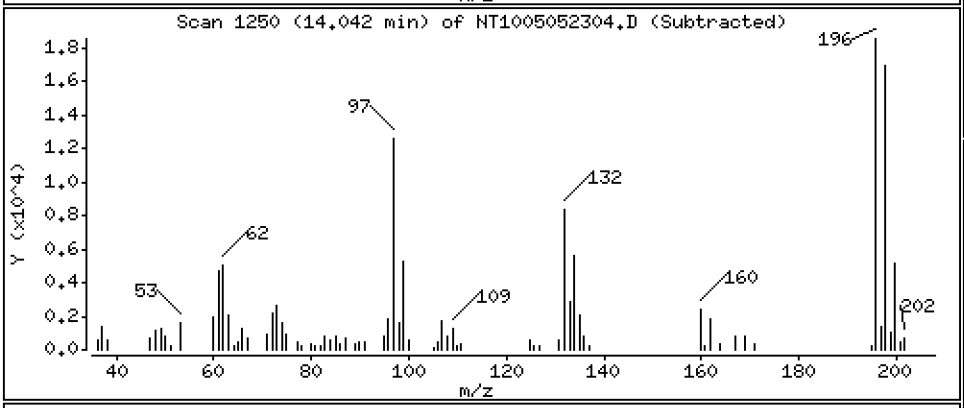
Column phase: ZB-5msi

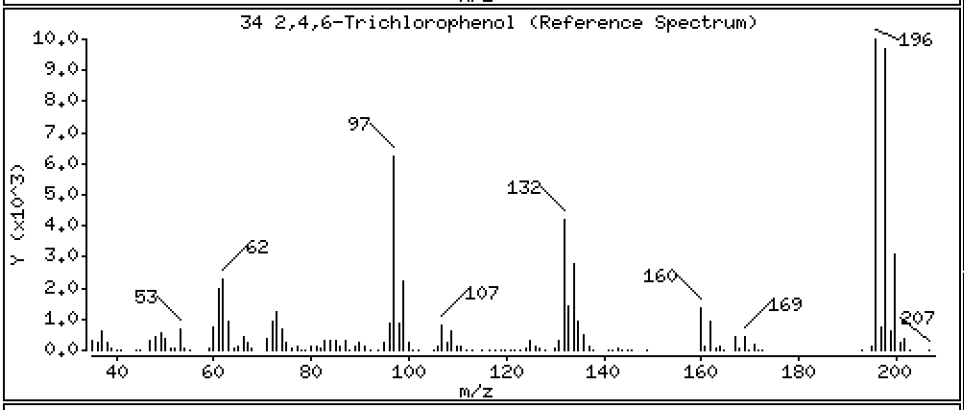
Column diameter: 0.25

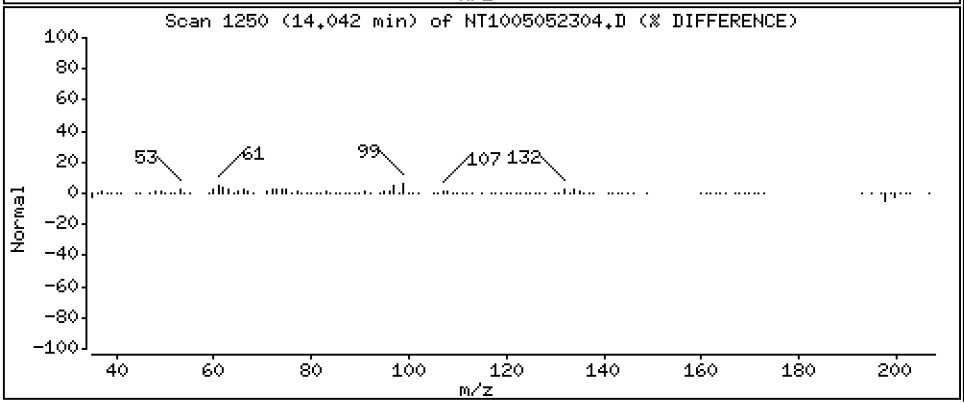
34 2,4,6-Trichlorophenol

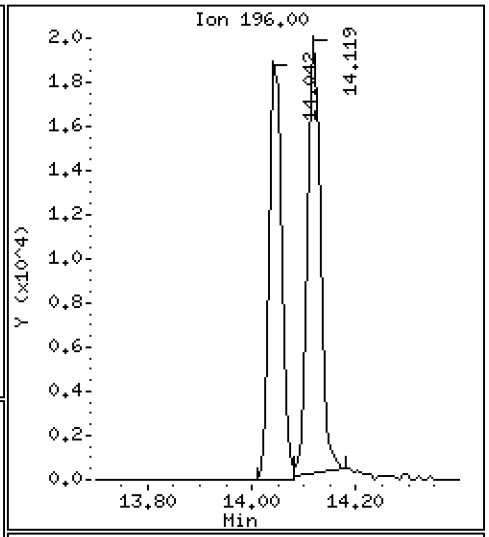
Concentration: 0.6756 ug/mL

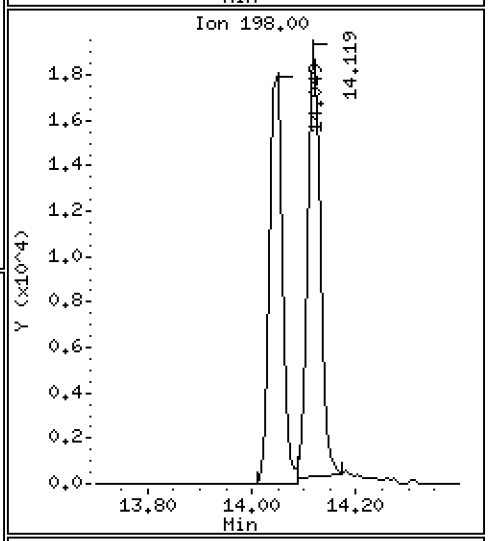


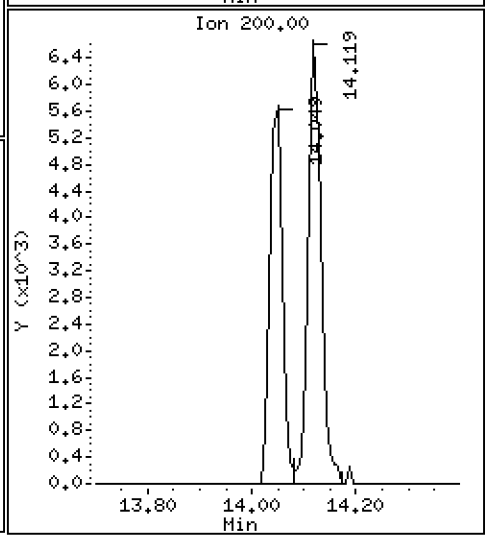












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

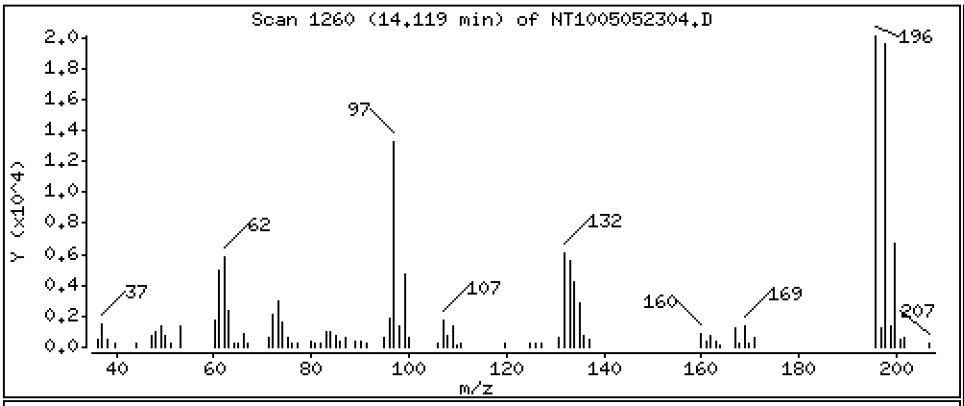
Operator: VTS

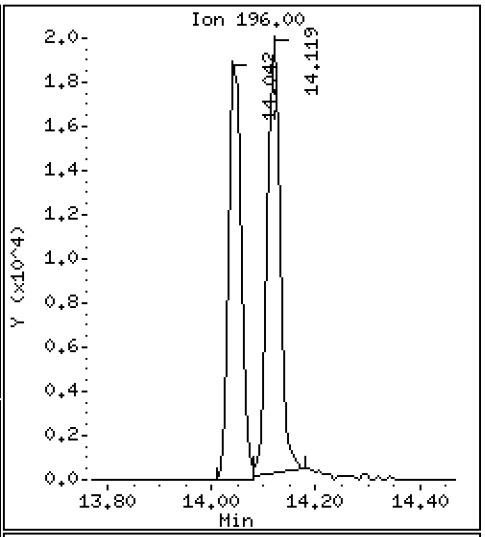
Column phase: ZB-5msi

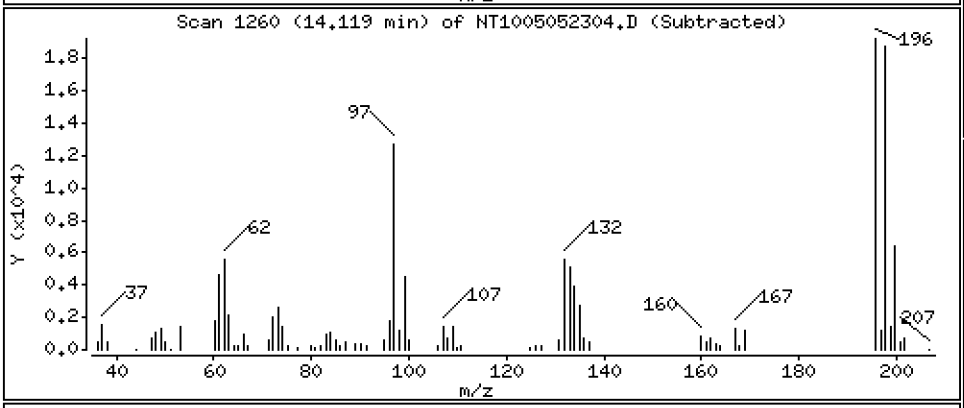
Column diameter: 0.25

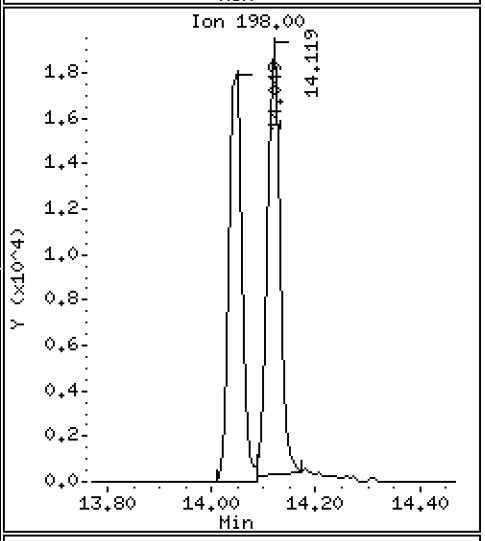
35 2,4,5-Trichlorophenol

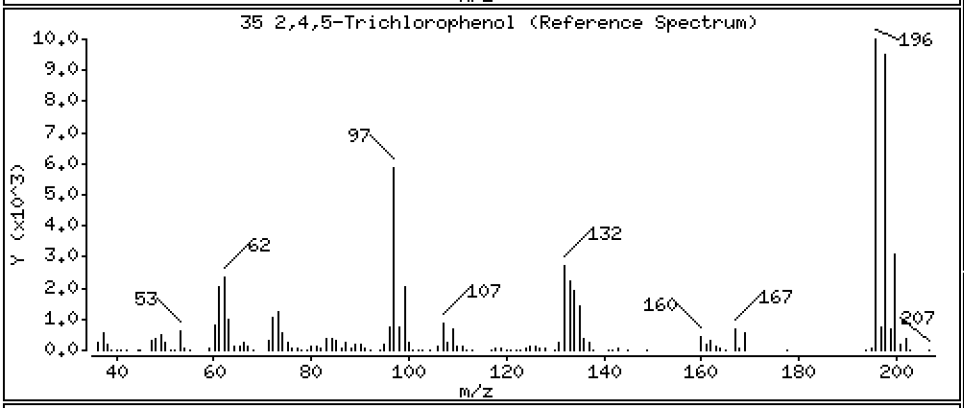
Concentration: 0.6656 ug/mL

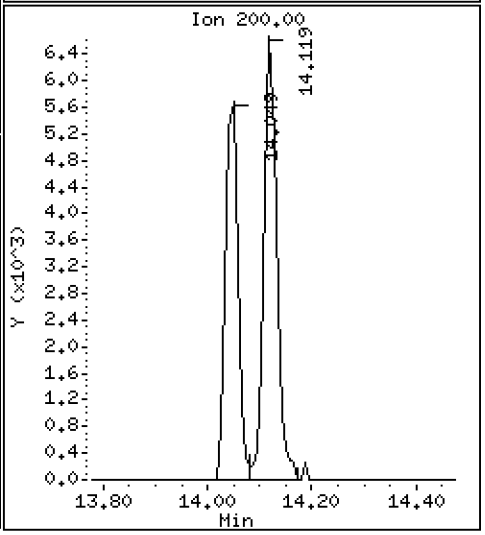


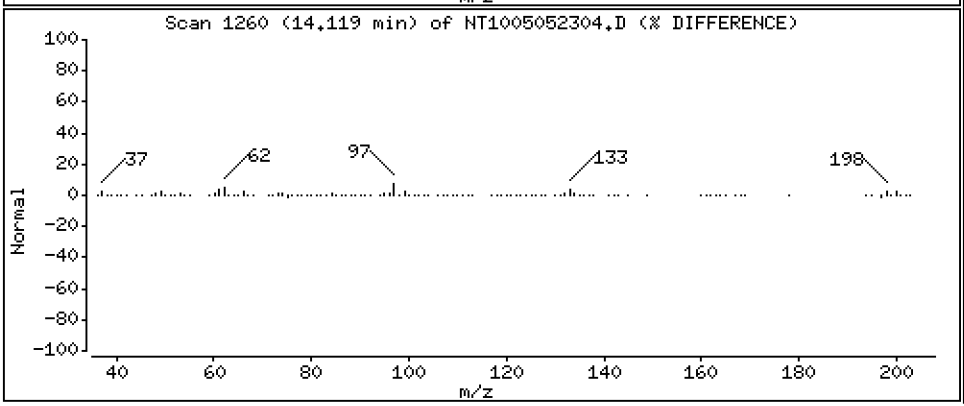












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

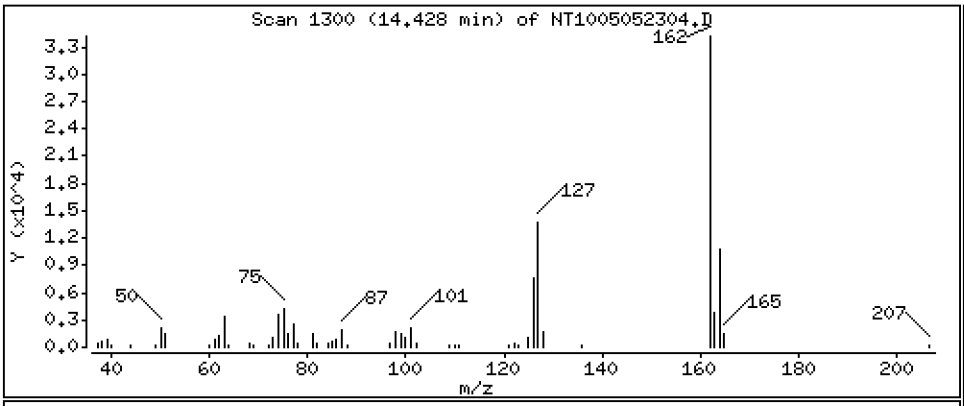
Operator: VTS

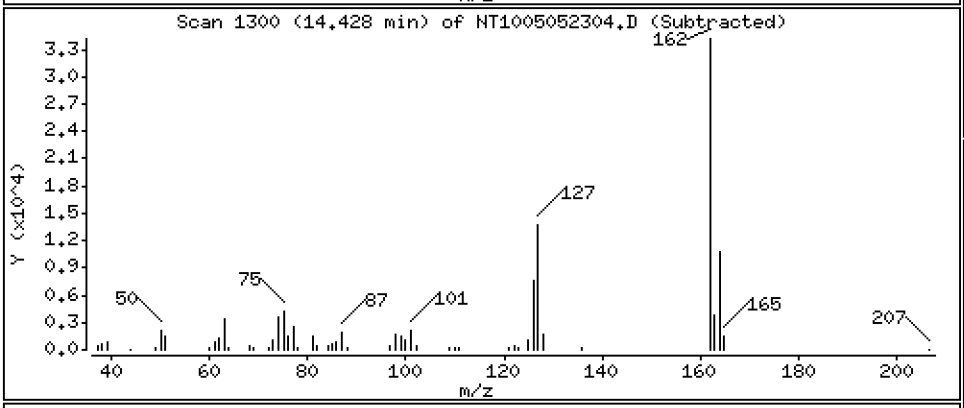
Column phase: ZB-5msi

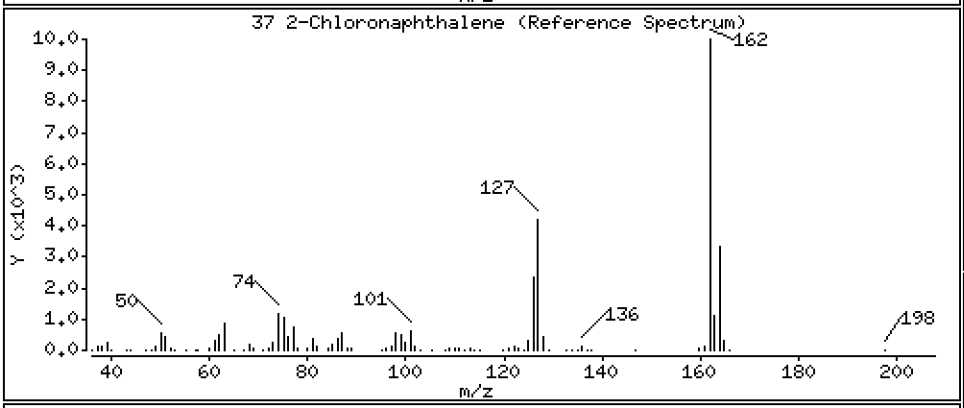
Column diameter: 0.25

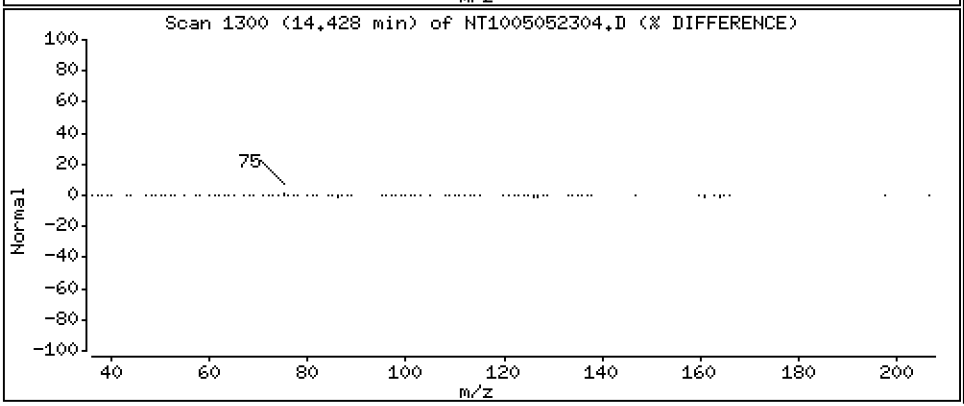
37 2-Chloronaphthalene

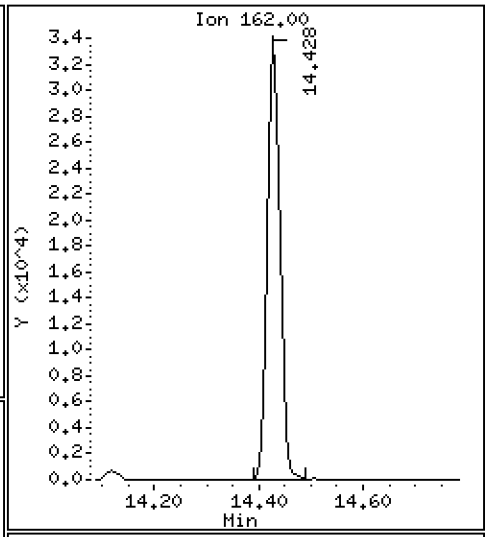
Concentration: 0.4515 ug/mL

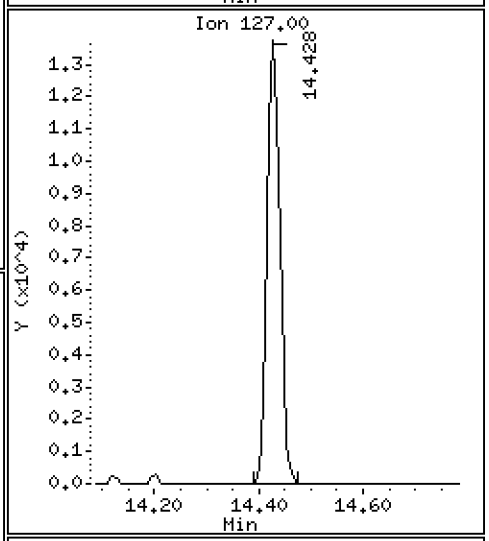


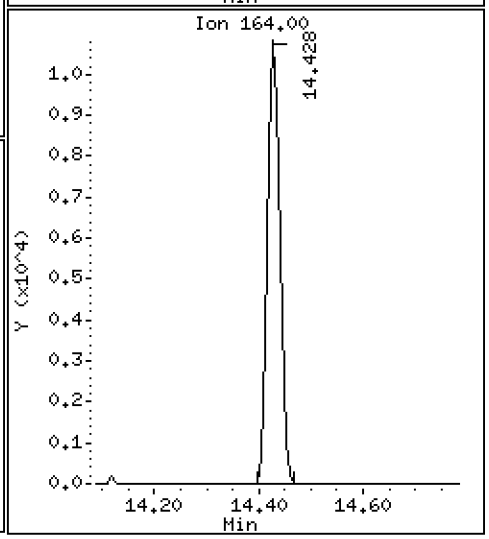












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

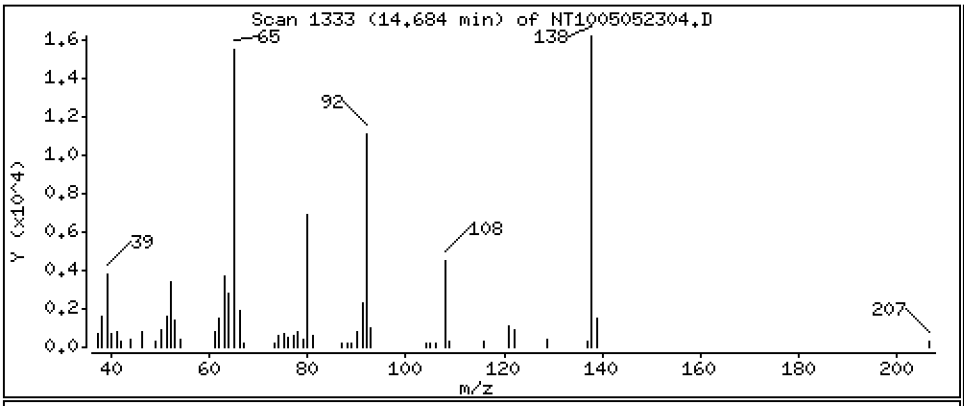
Operator: VTS

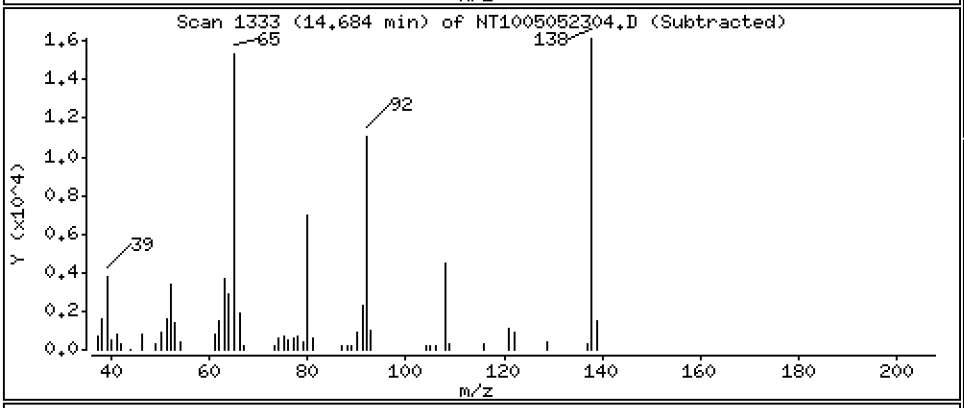
Column phase: ZB-5msi

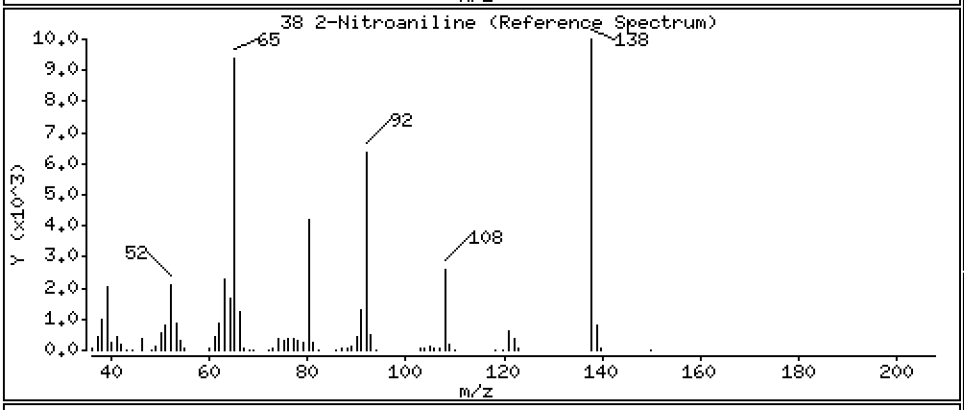
Column diameter: 0.25

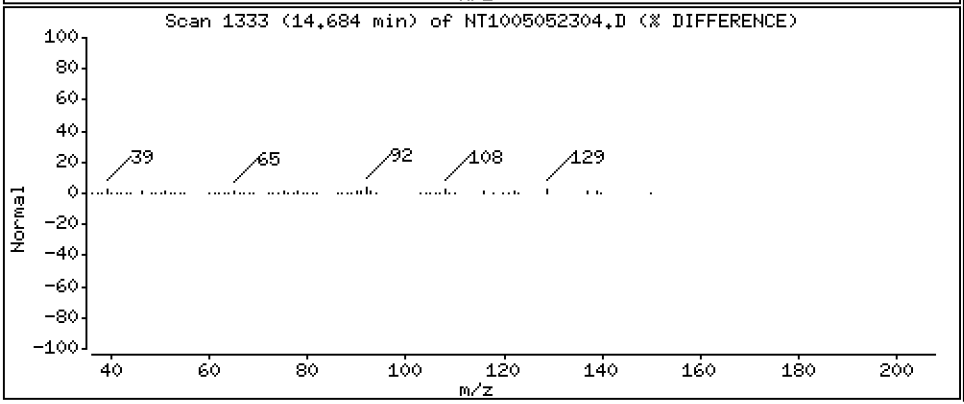
38 2-Nitroaniline

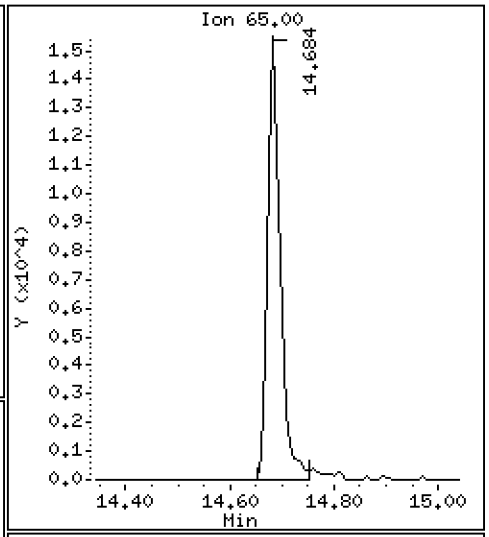
Concentration: 0.7100 ug/mL

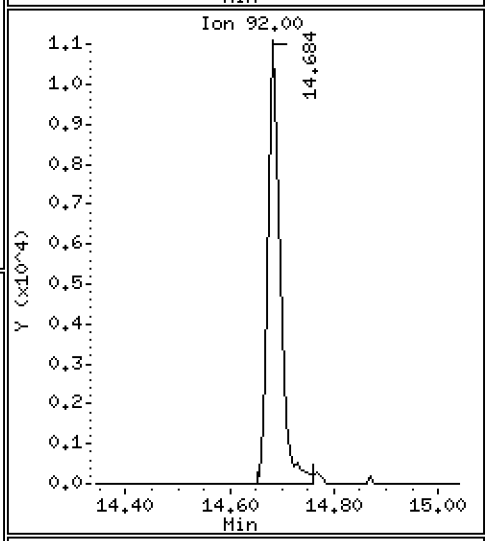


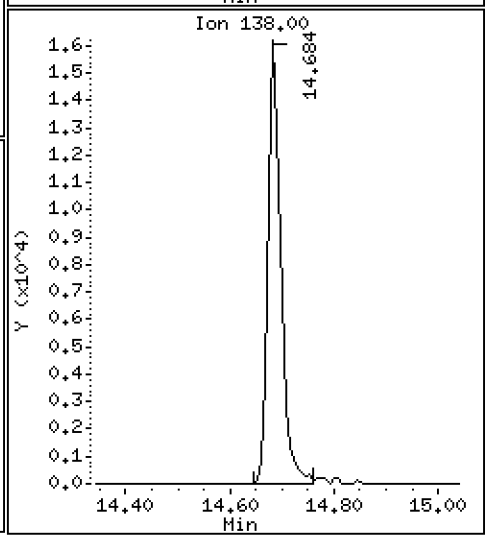












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

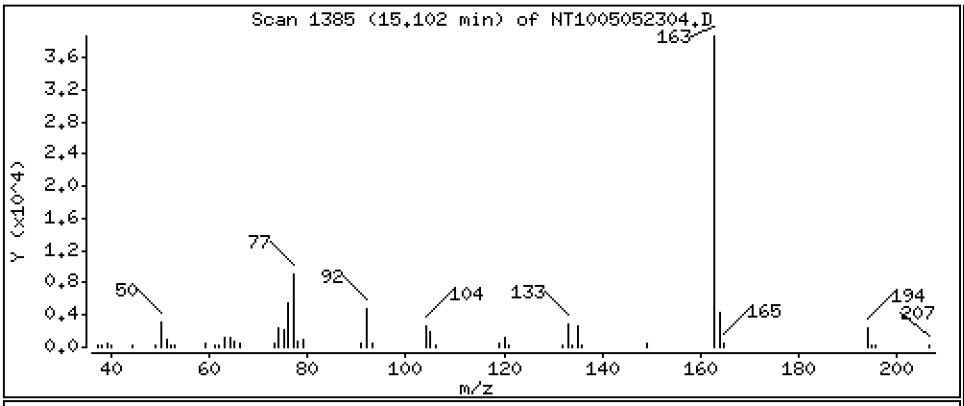
Operator: VTS

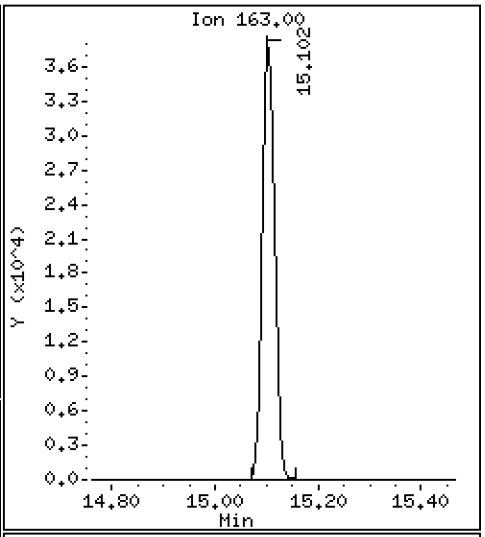
Column phase: ZB-5msi

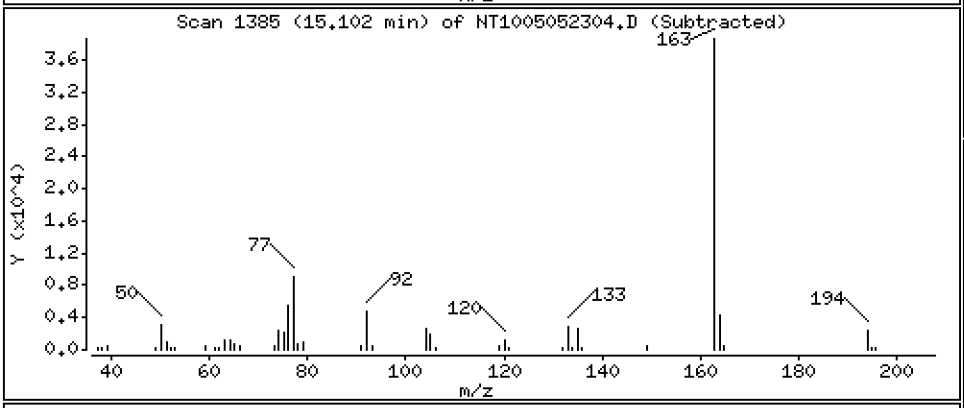
Column diameter: 0.25

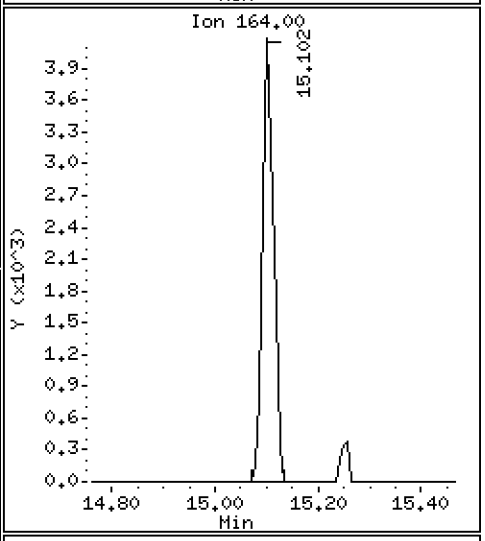
39 Dimethylphthalate

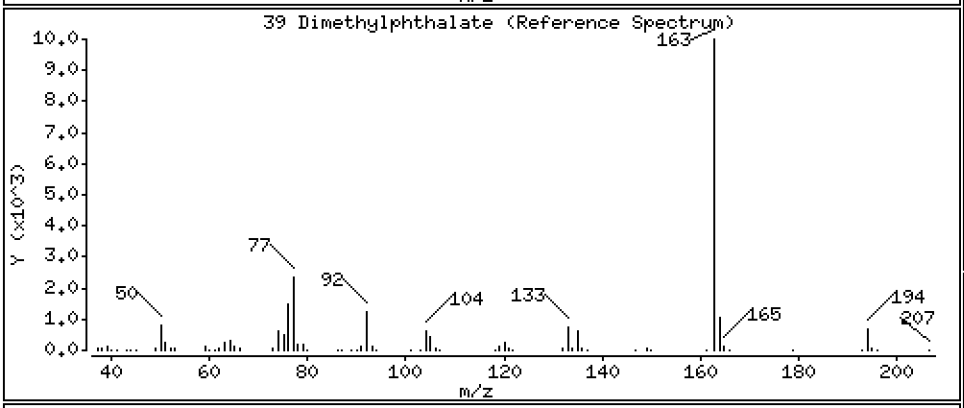
Concentration: 0.4375 ug/mL

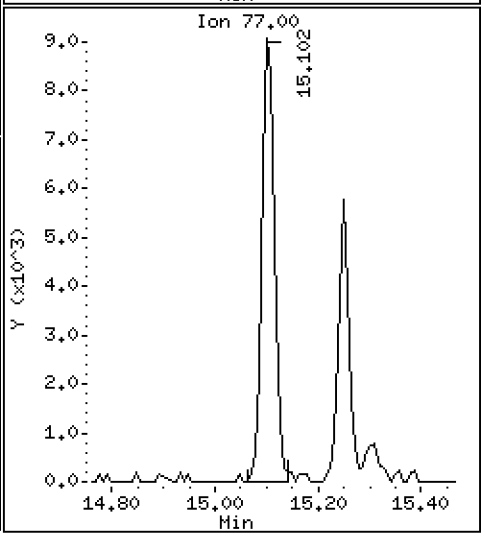


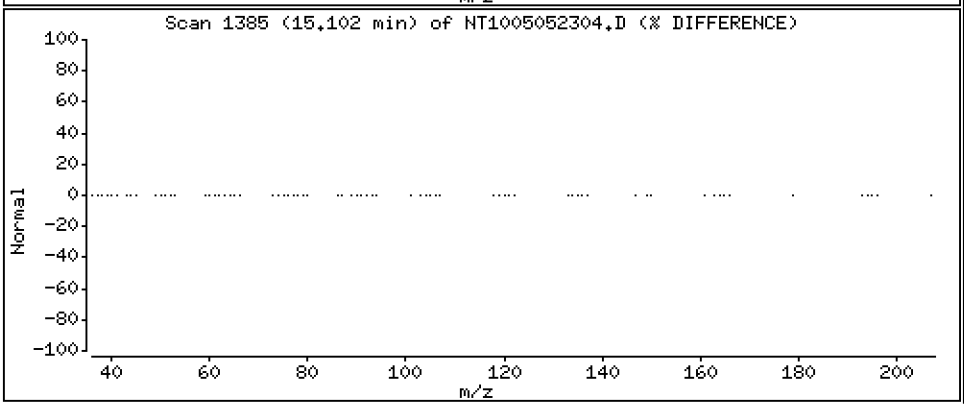












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

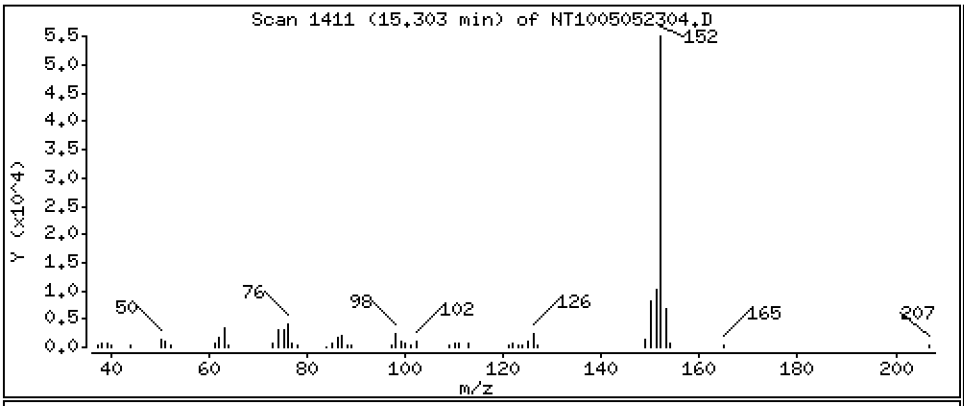
Operator: VTS

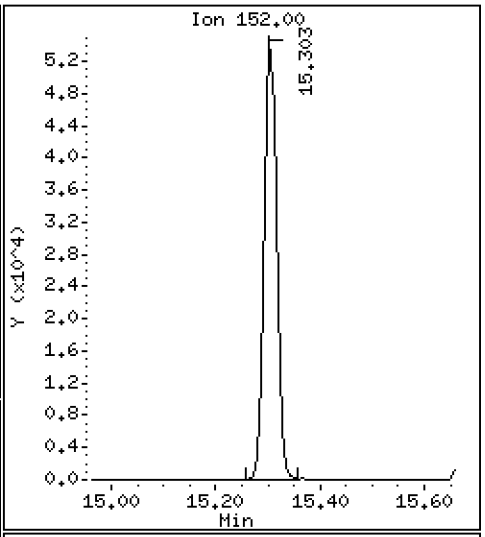
Column phase: ZB-5msi

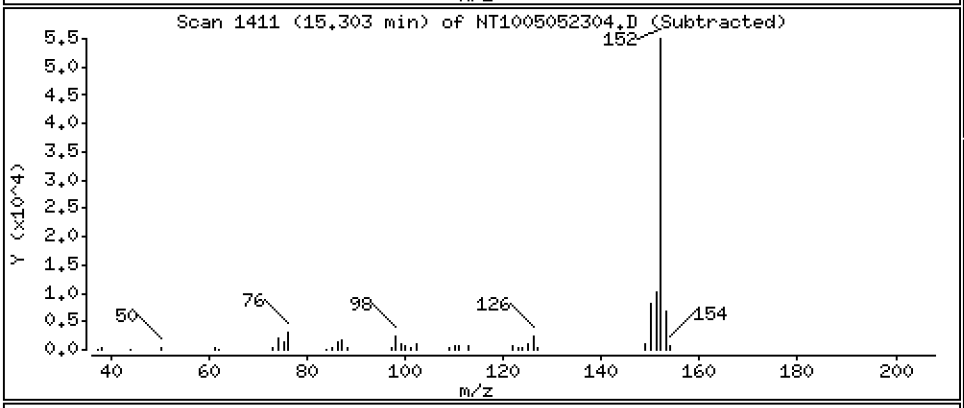
Column diameter: 0.25

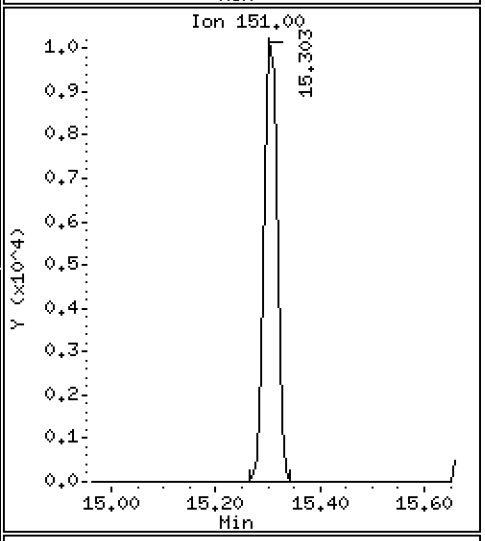
40 Acenaphthylene

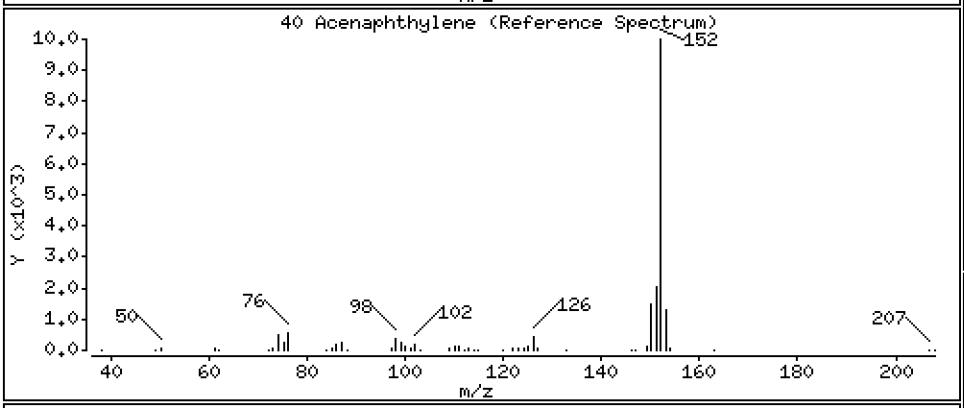
Concentration: 0.4419 ug/mL

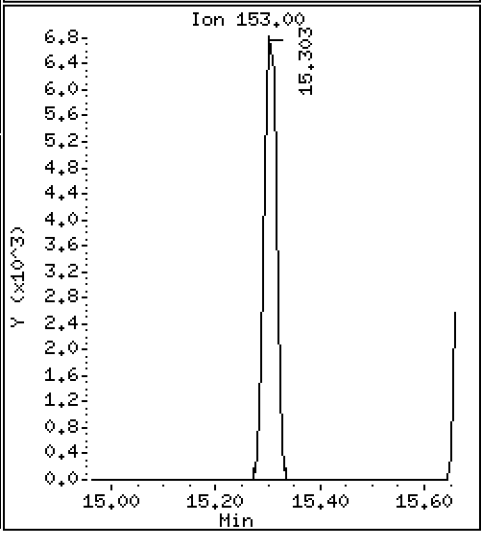


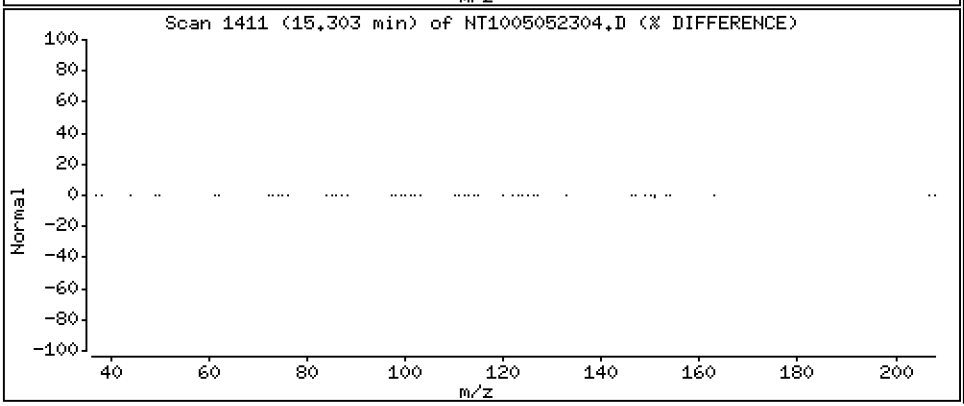












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

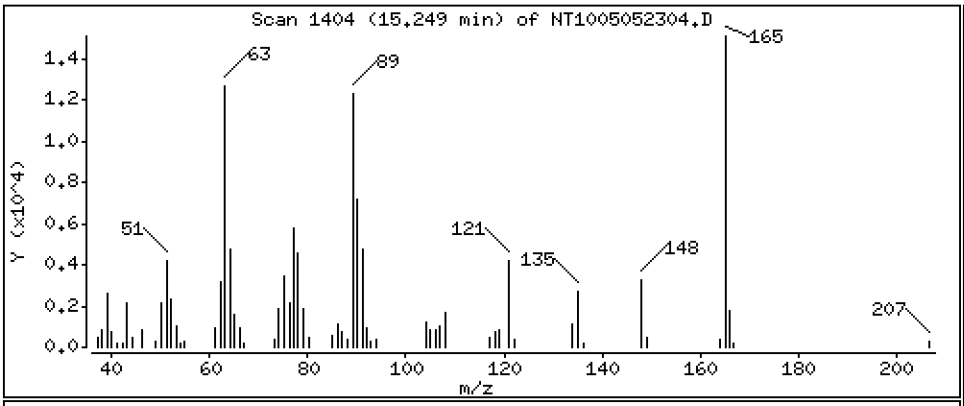
Operator: VTS

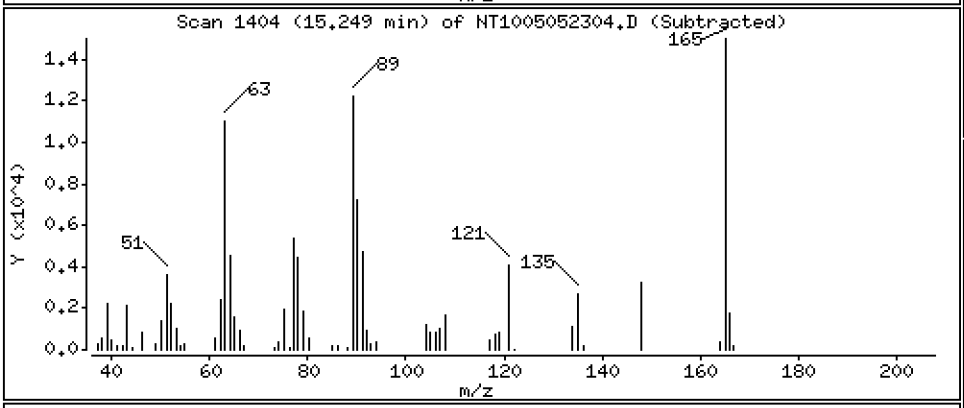
Column phase: ZB-5msi

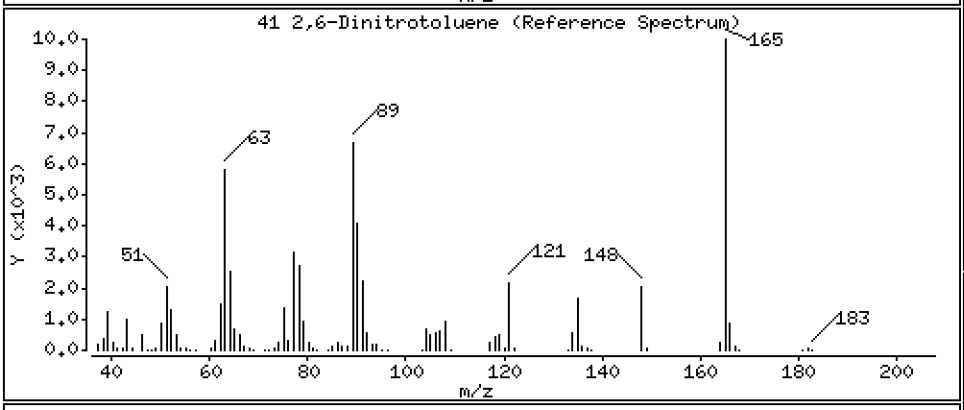
Column diameter: 0.25

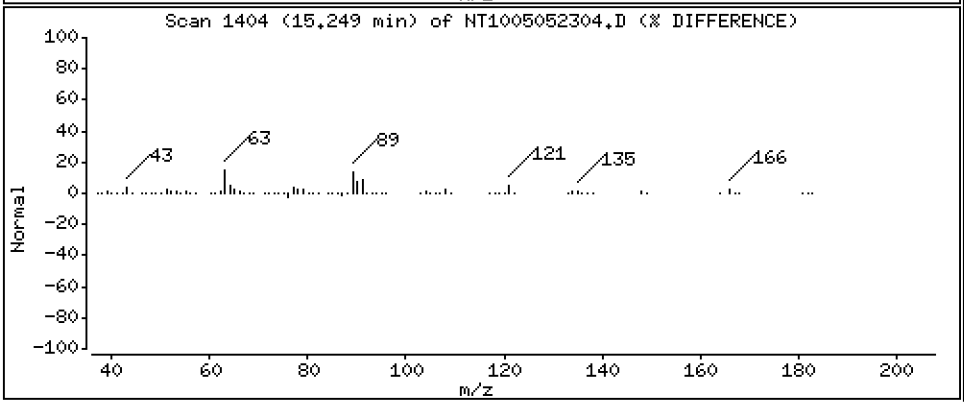
41 2,6-Dinitrotoluene

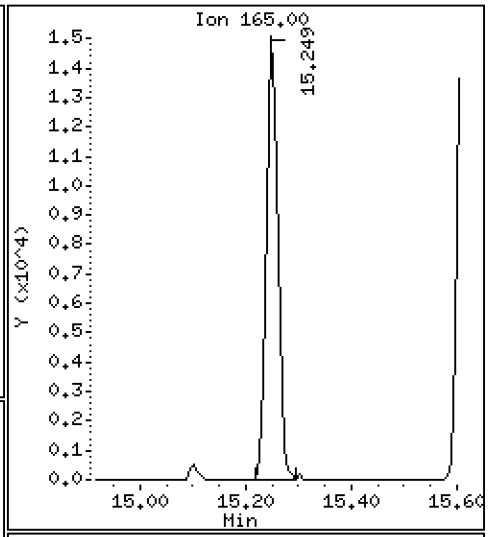
Concentration: 0.7089 ug/mL

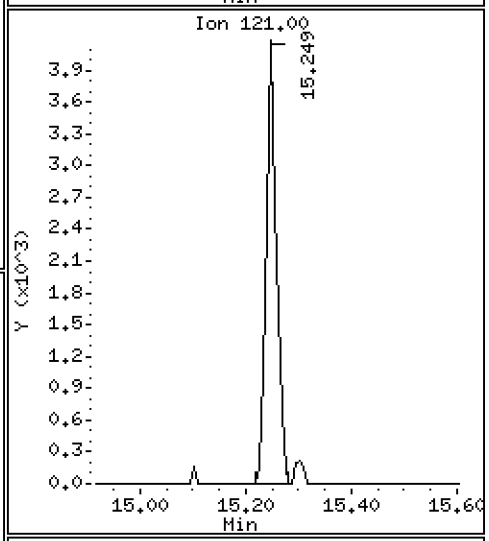


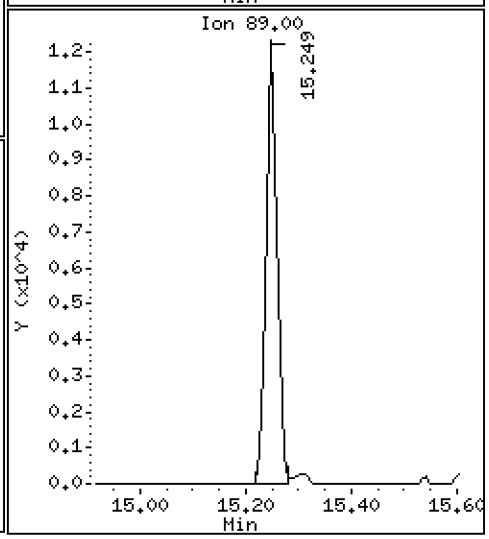












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

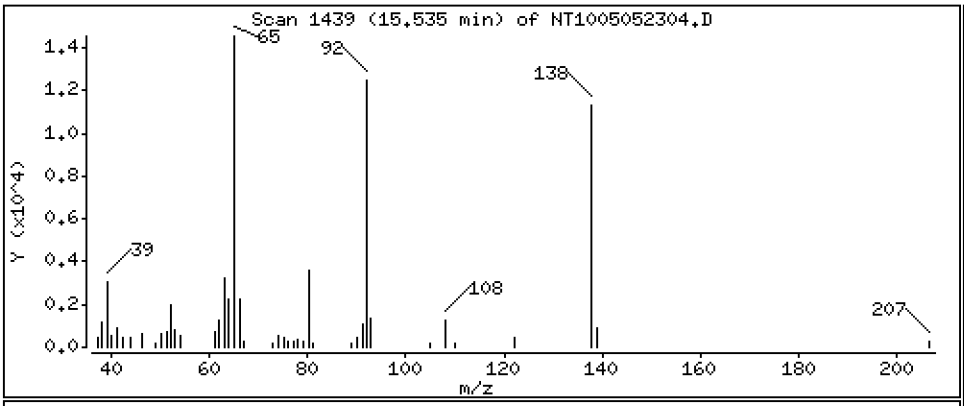
Operator: VTS

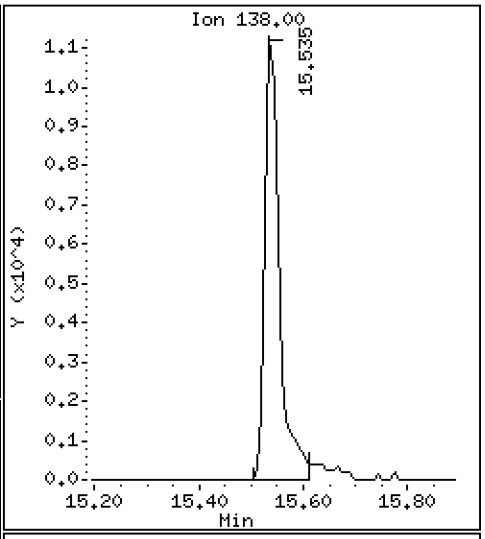
Column phase: ZB-5msi

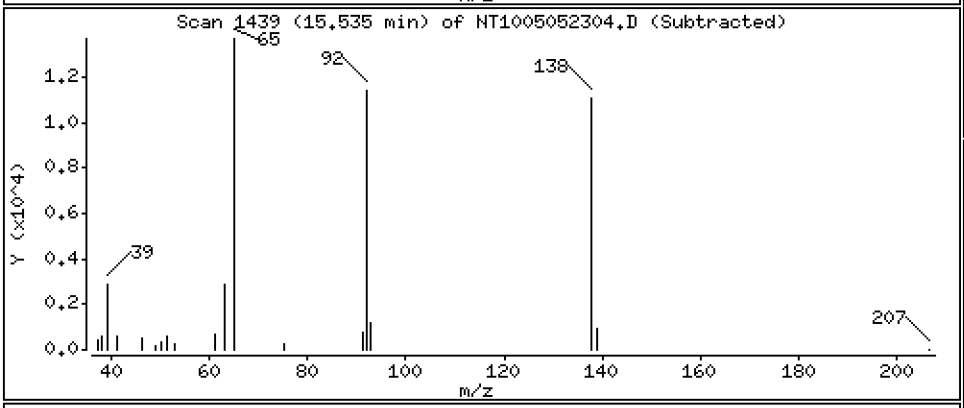
Column diameter: 0.25

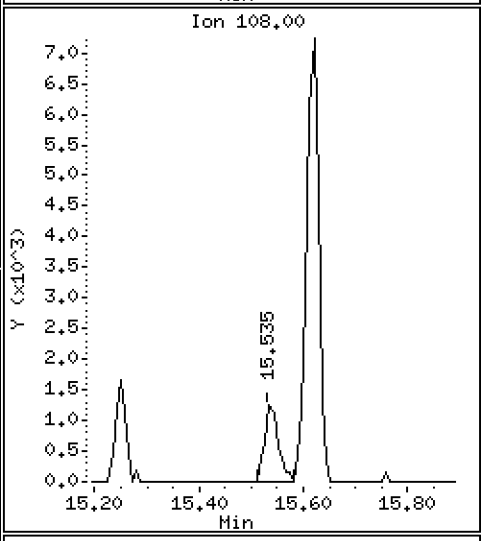
43 3-Nitroaniline

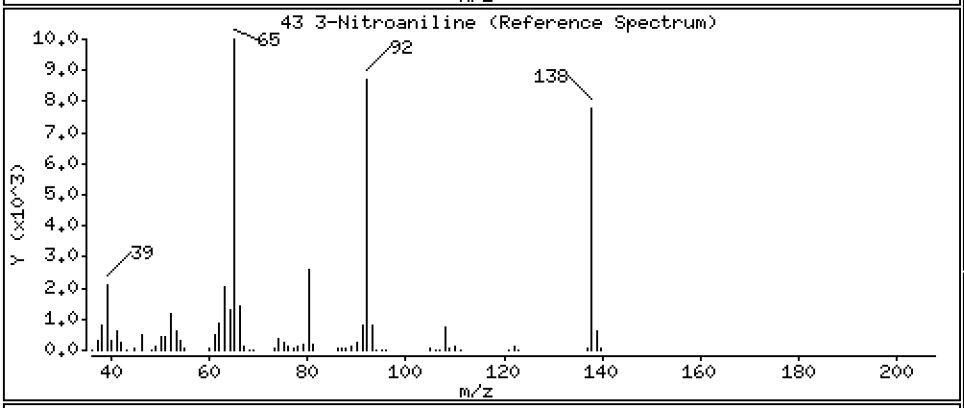
Concentration: 0.6810 ug/mL

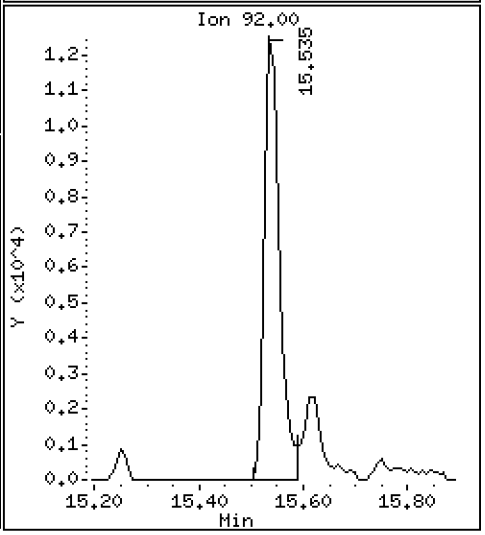


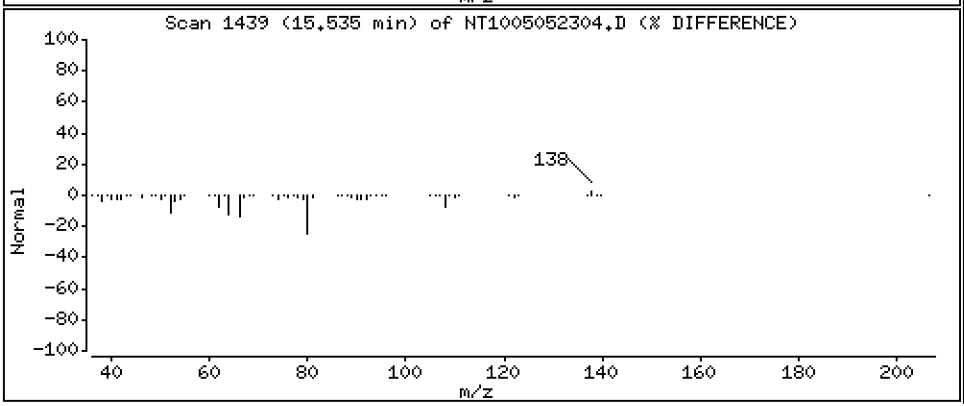












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

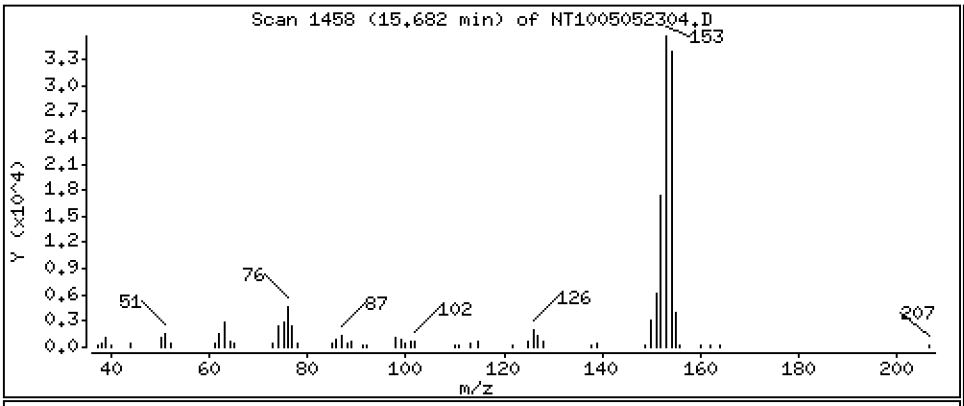
Operator: VTS

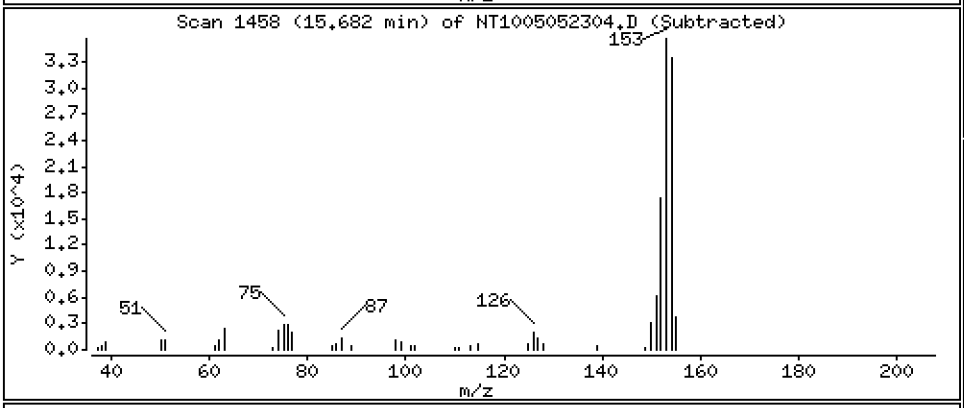
Column phase: ZB-5msi

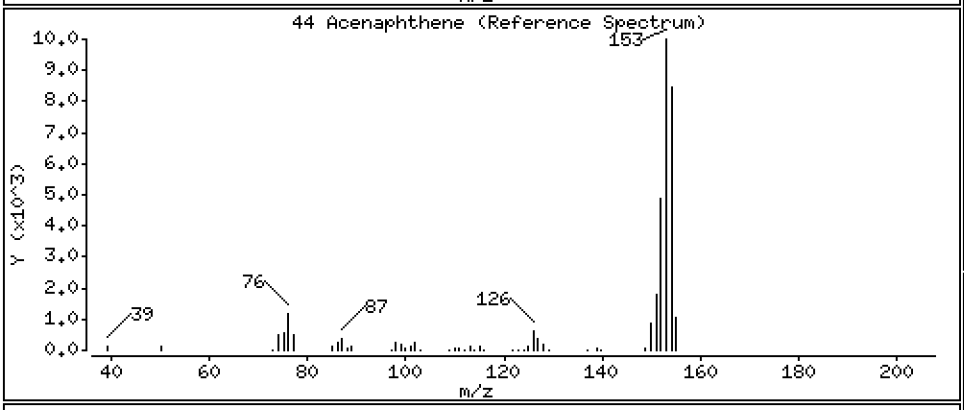
Column diameter: 0.25

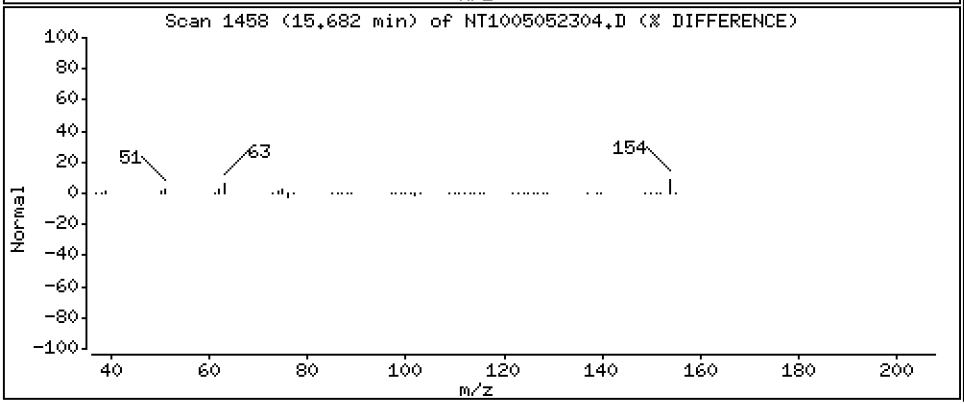
44 Acenaphthene

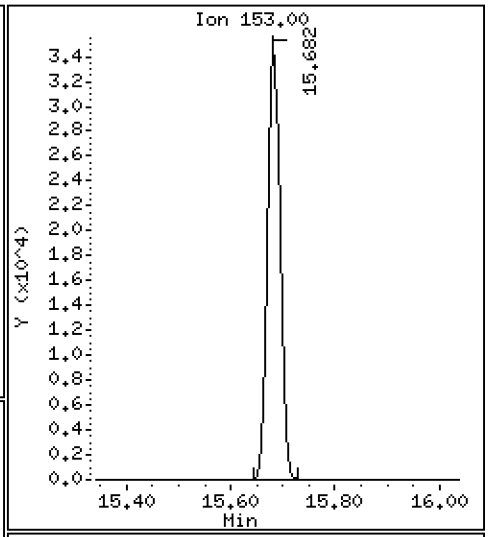
Concentration: 0.4497 ug/mL

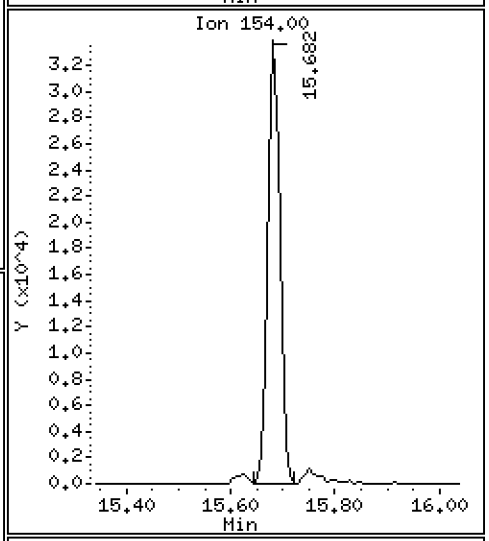


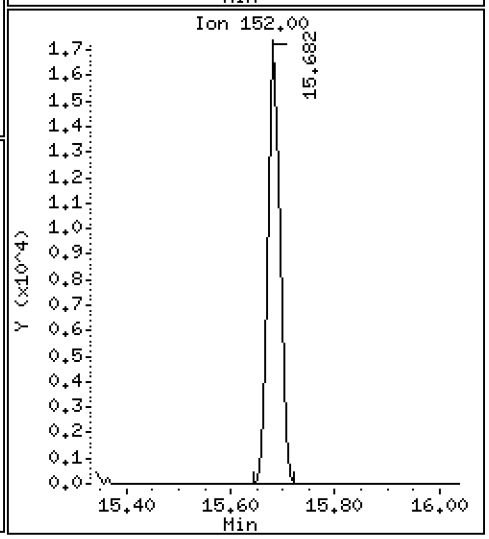












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

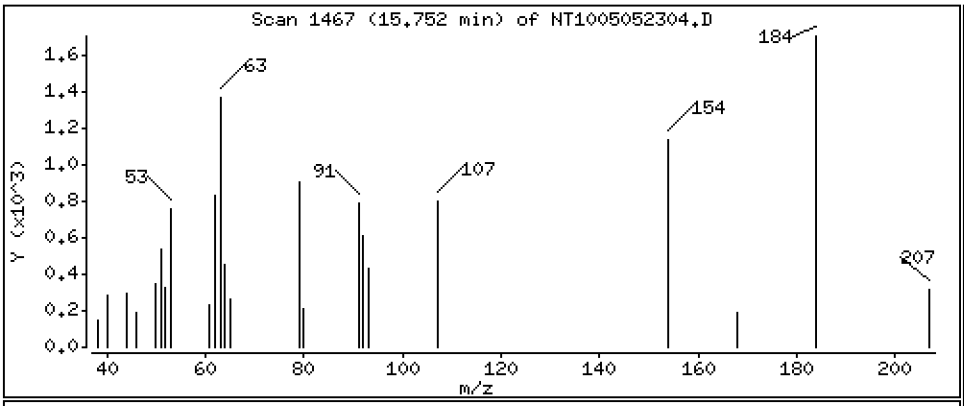
Operator: VTS

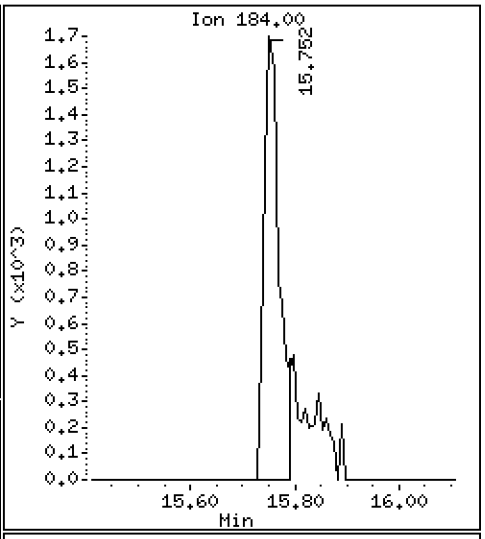
Column phase: ZB-5msi

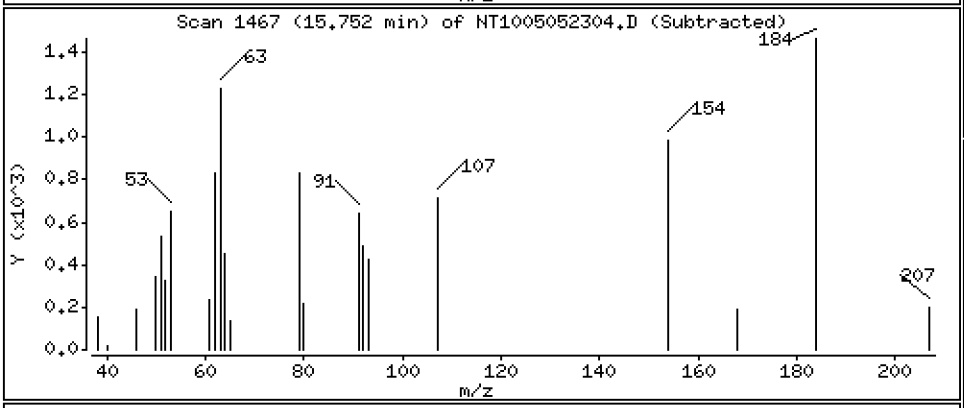
Column diameter: 0.25

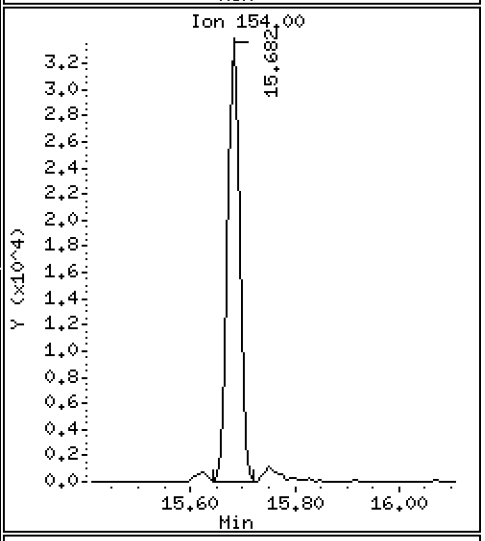
45 2,4-Dinitrophenol

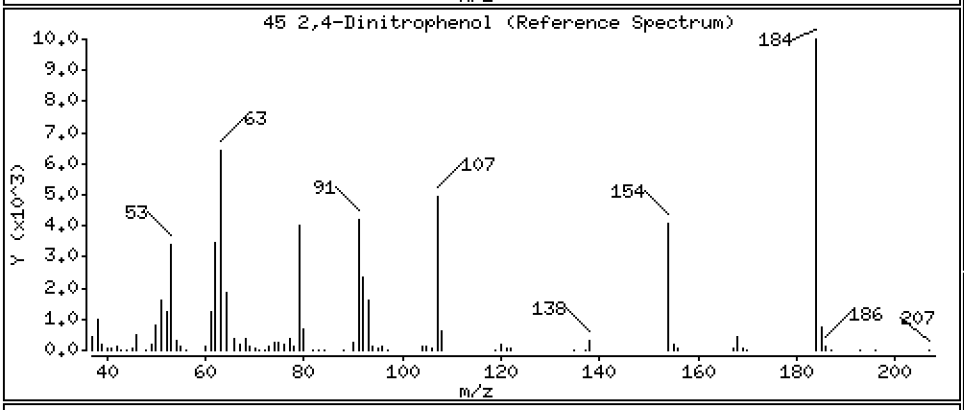
Concentration: 0.1404 ug/mL

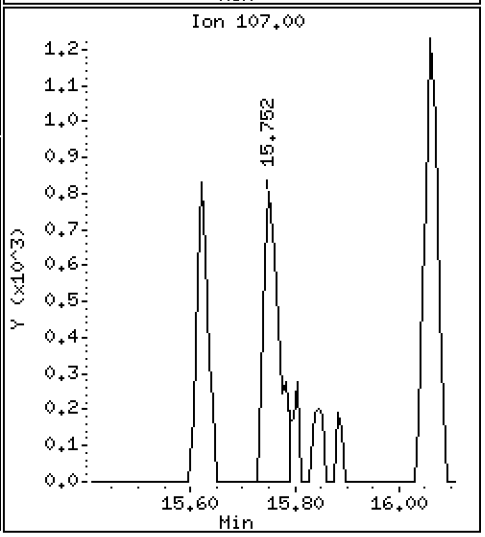


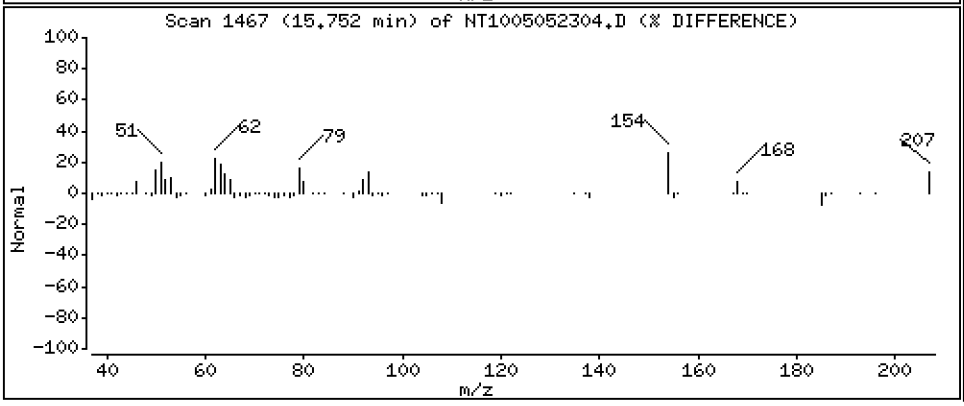












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

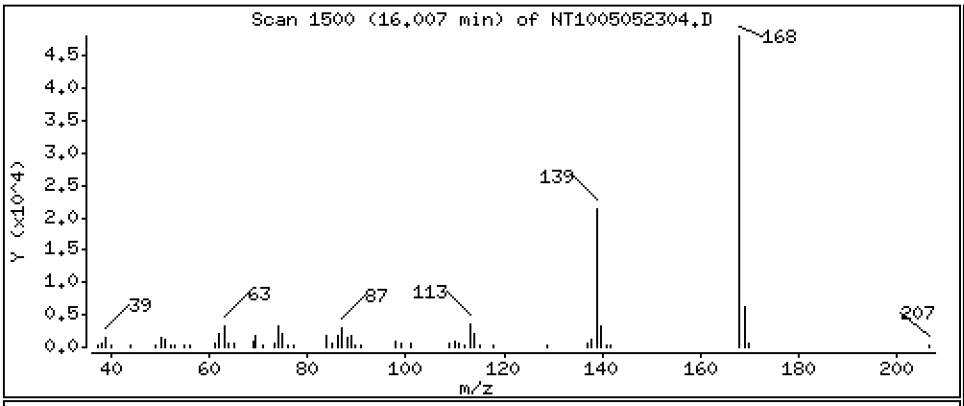
Operator: VTS

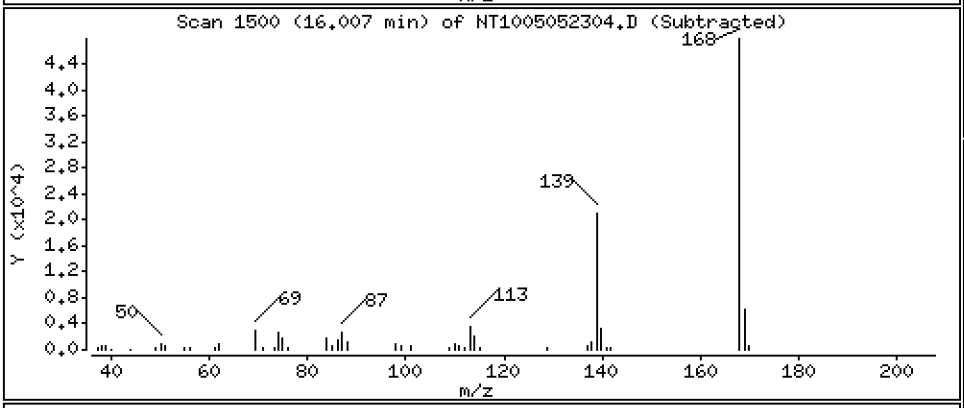
Column phase: ZB-5msi

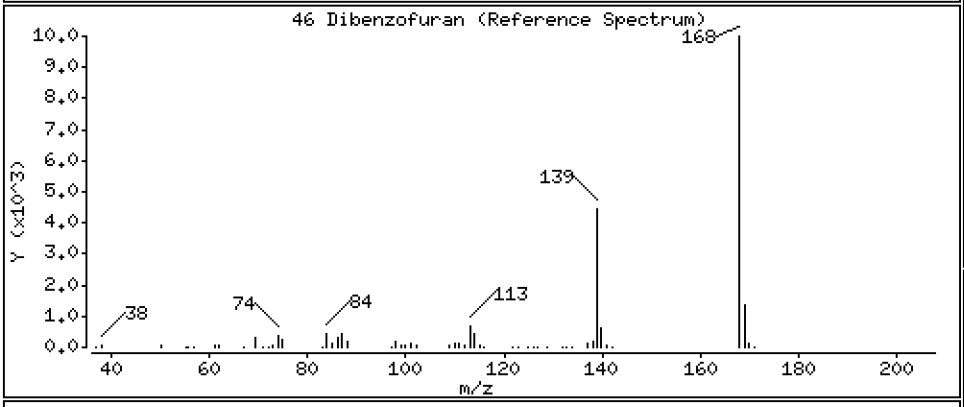
Column diameter: 0.25

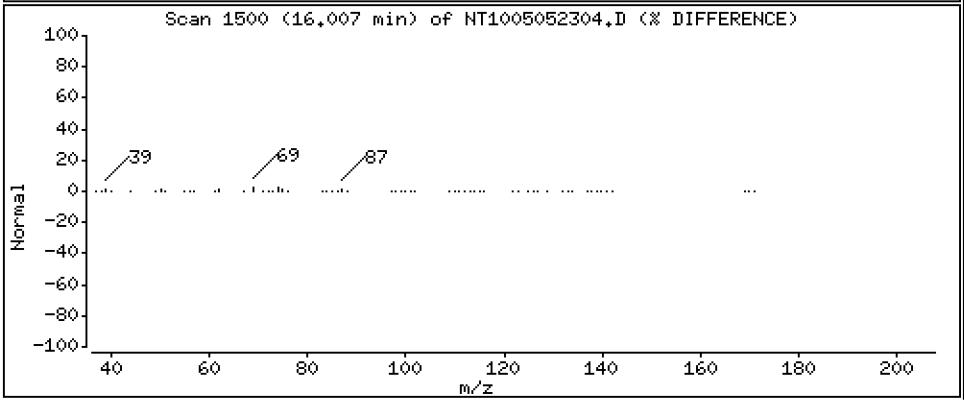
46 Dibenzofuran

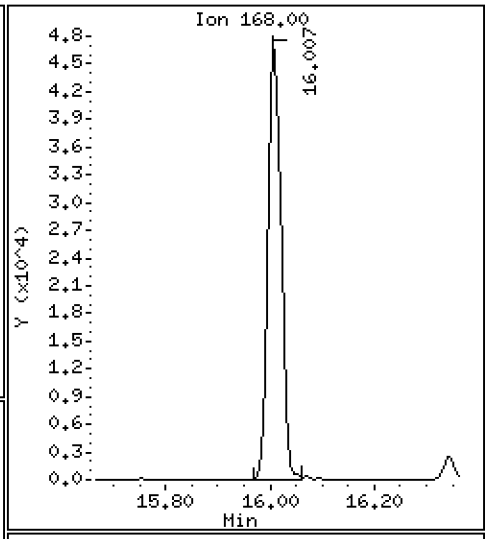
Concentration: 0.4469 ug/mL

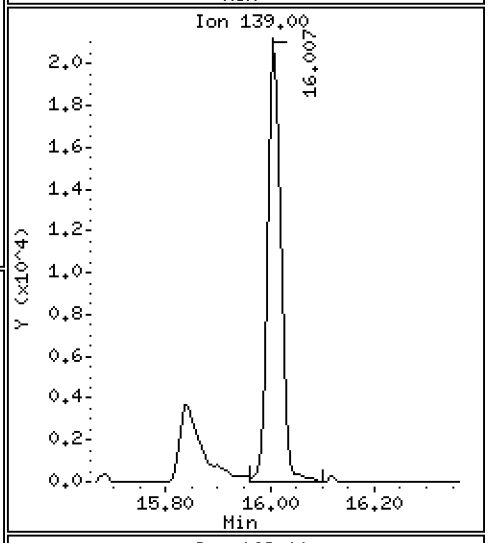


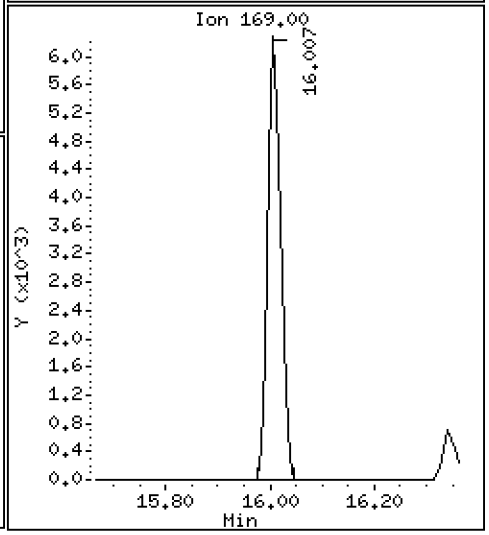












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

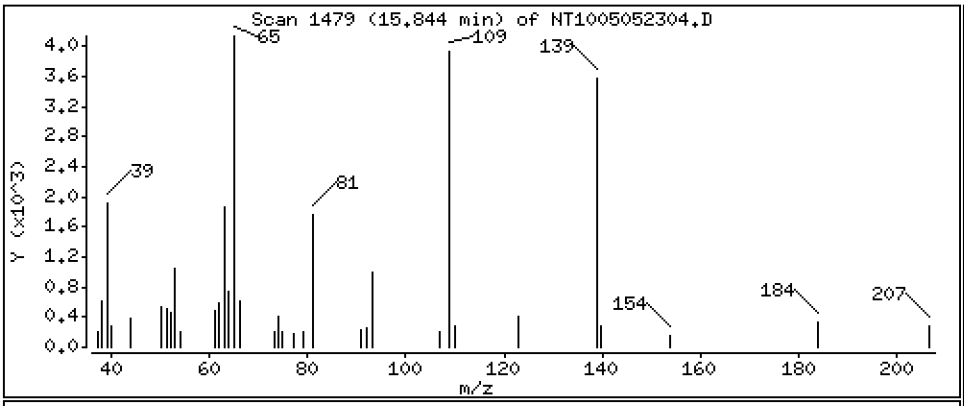
Operator: VTS

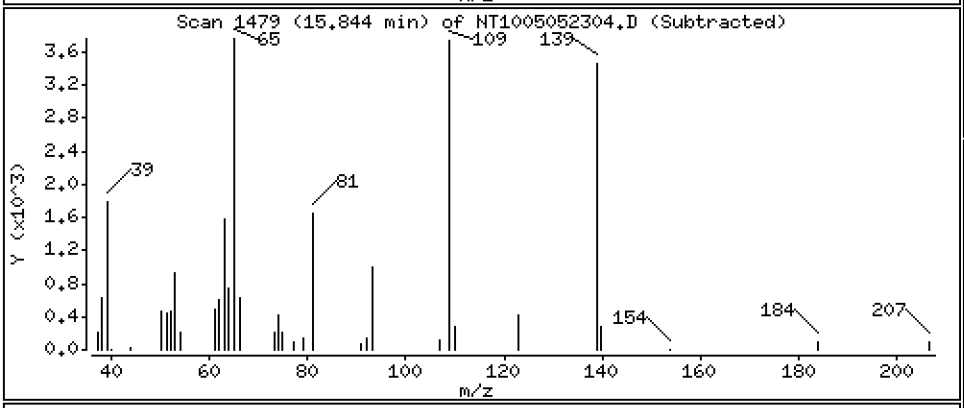
Column phase: ZB-5msi

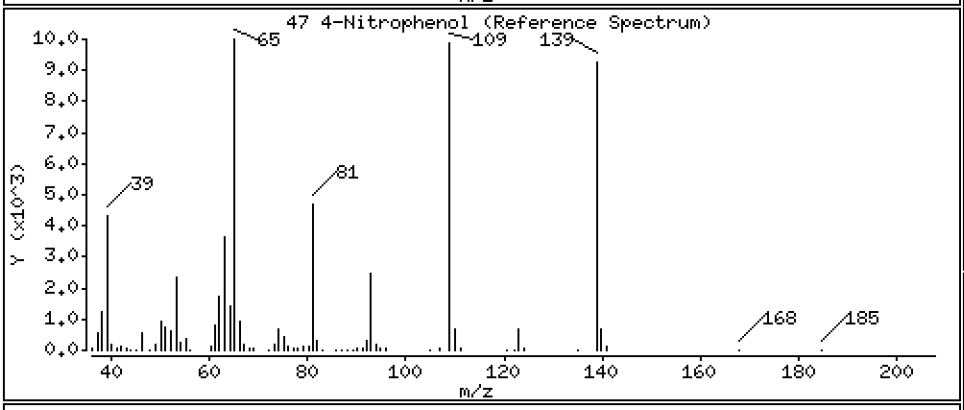
Column diameter: 0.25

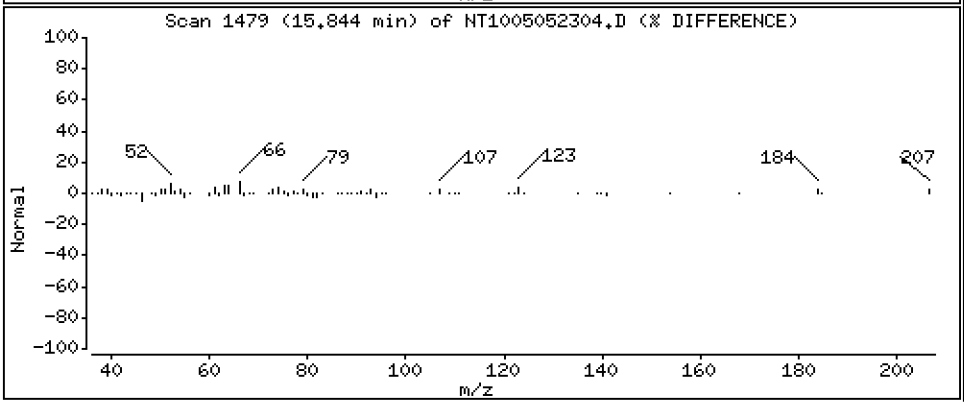
47 4-Nitrophenol

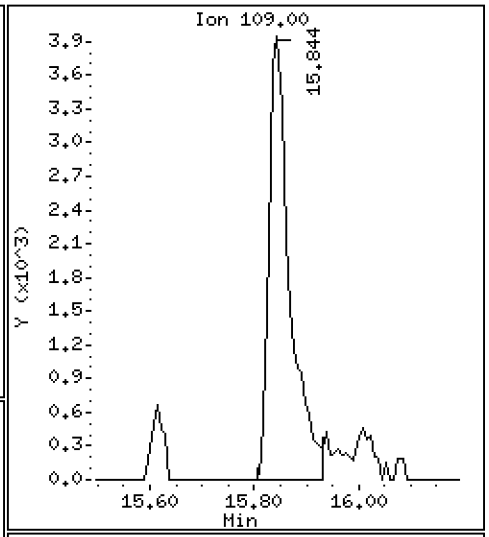
Concentration: 0.3731 ug/mL

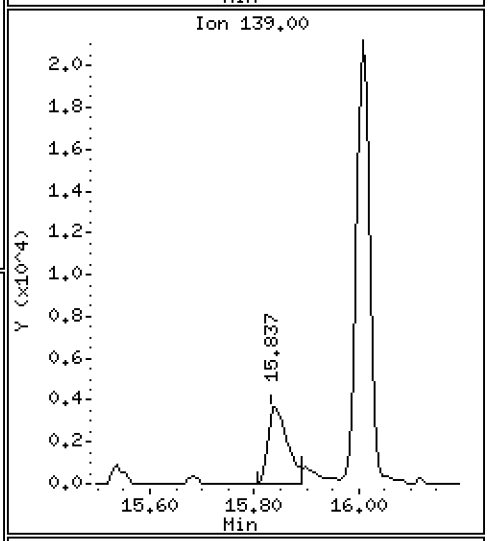


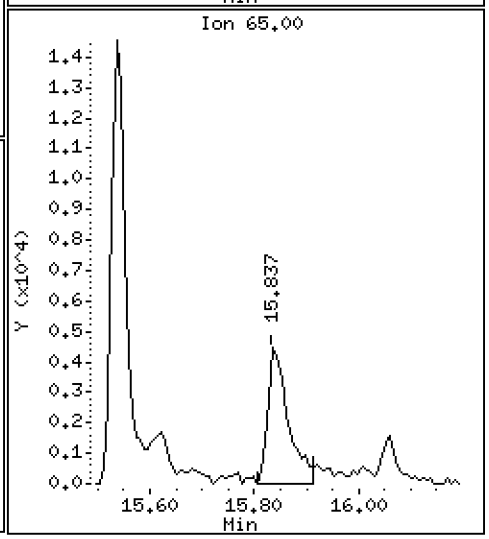












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

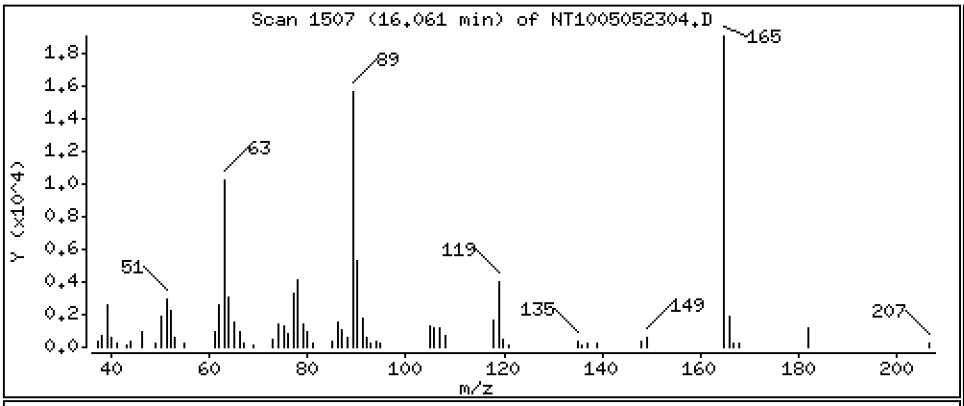
Operator: VTS

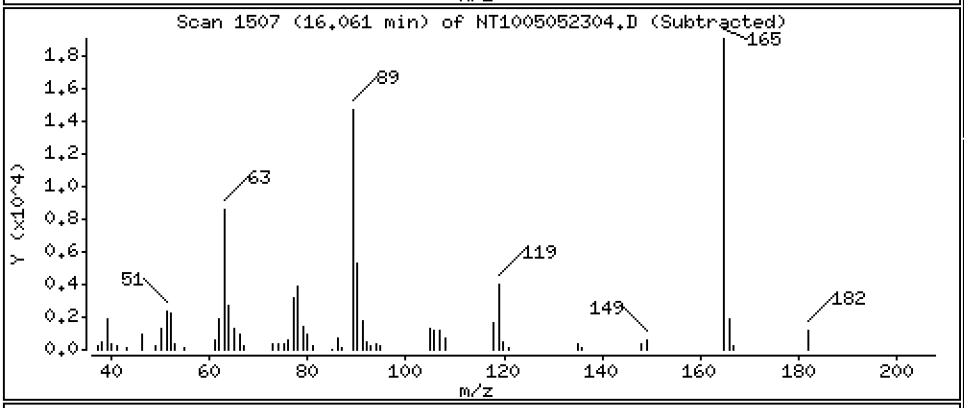
Column phase: ZB-5msi

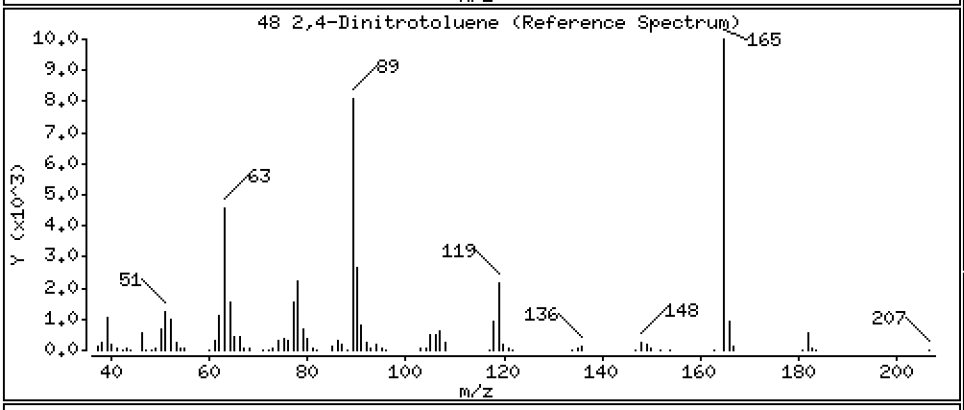
Column diameter: 0.25

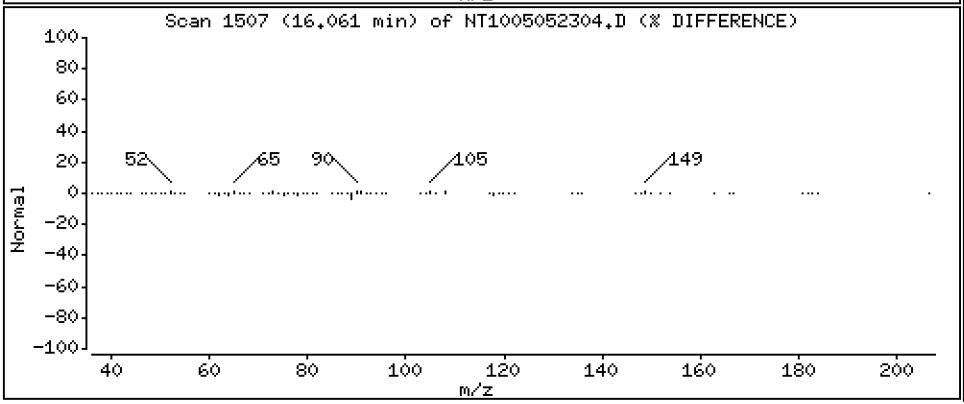
48 2,4-Dinitrotoluene

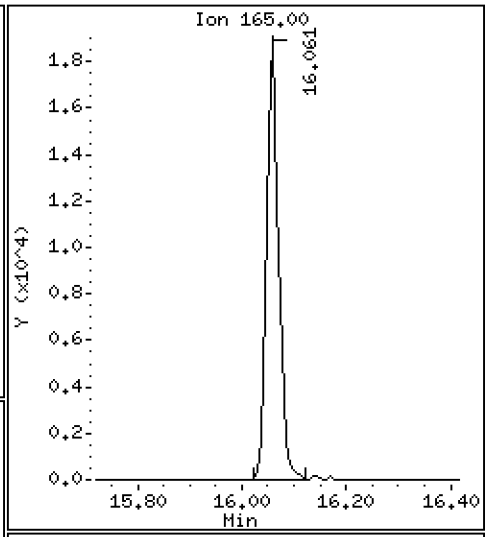
Concentration: 0.6645 ug/mL

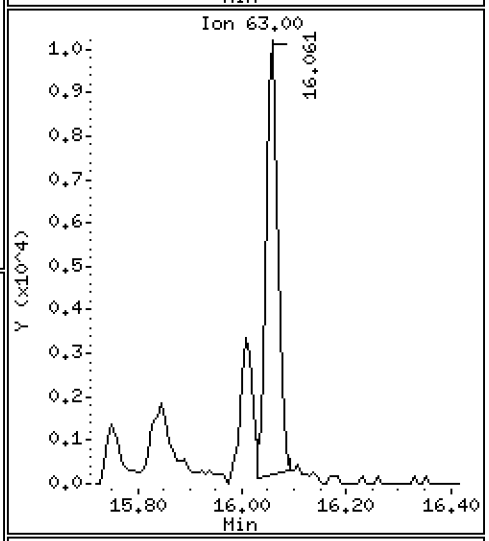


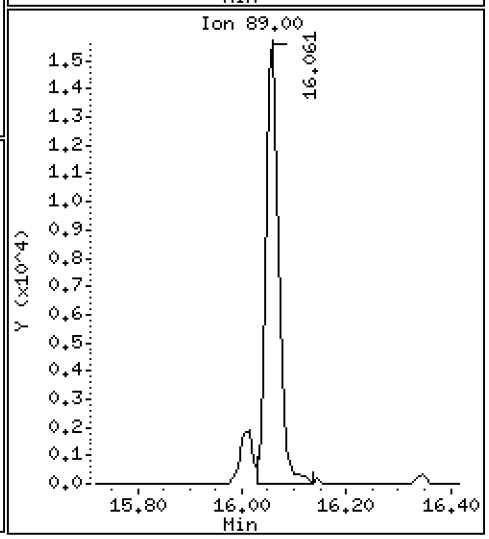












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

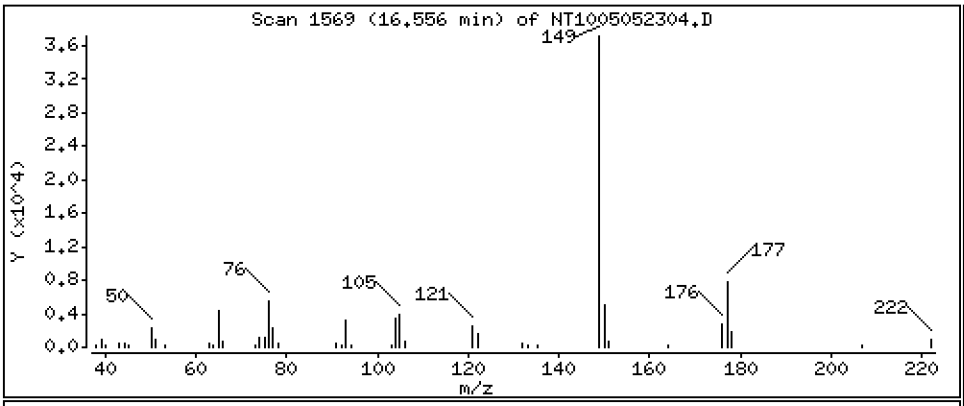
Operator: VTS

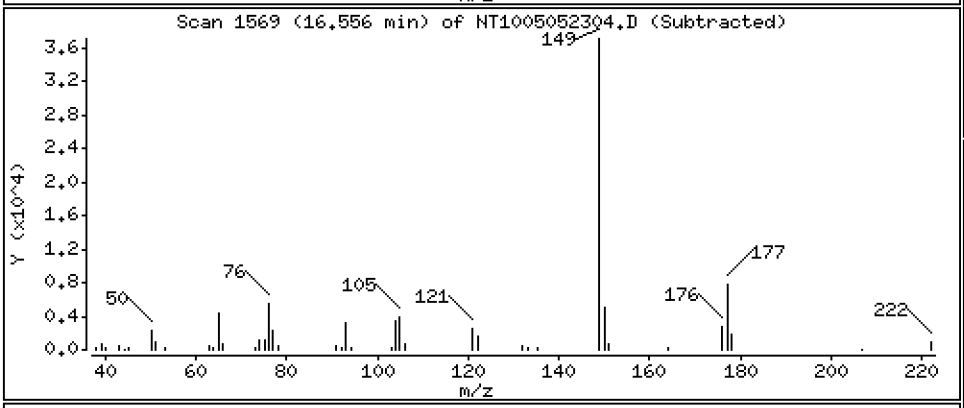
Column phase: ZB-5msi

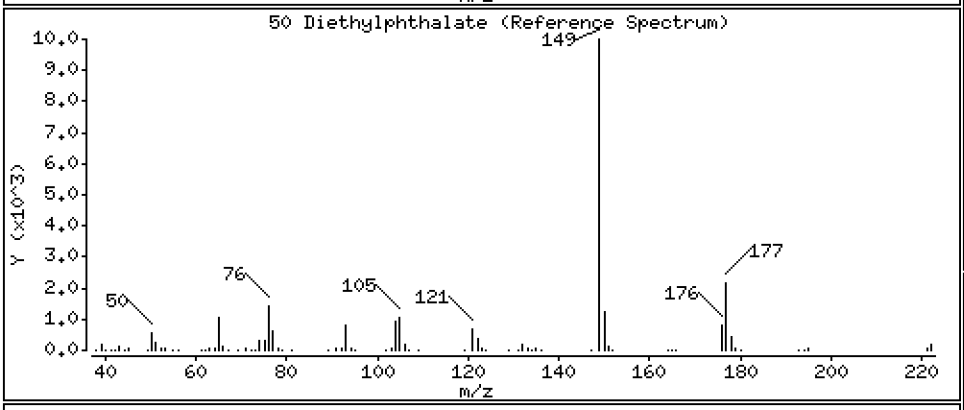
Column diameter: 0.25

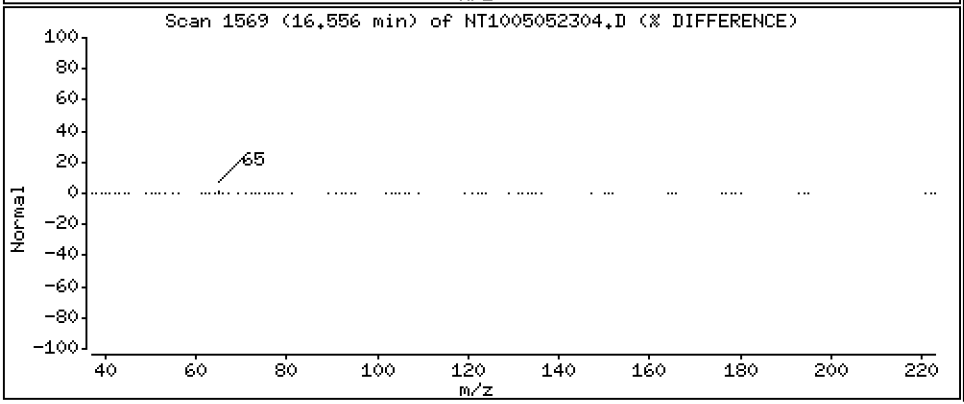
50 Diethylphthalate

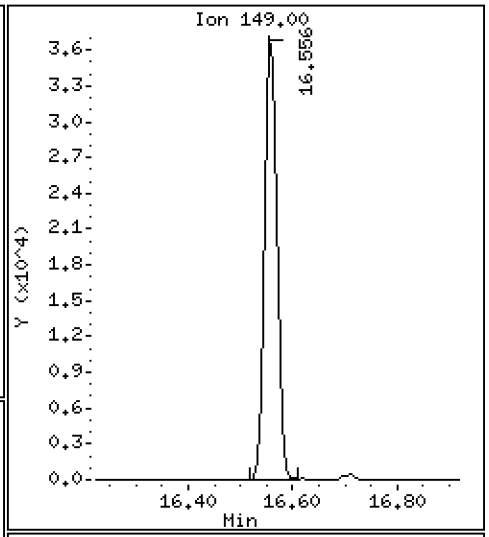
Concentration: 0.4079 ug/mL

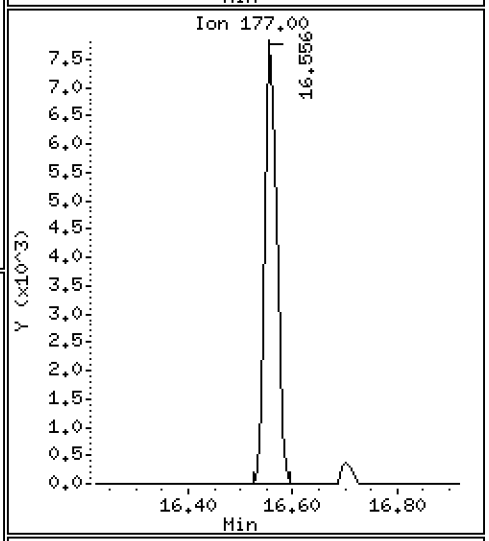


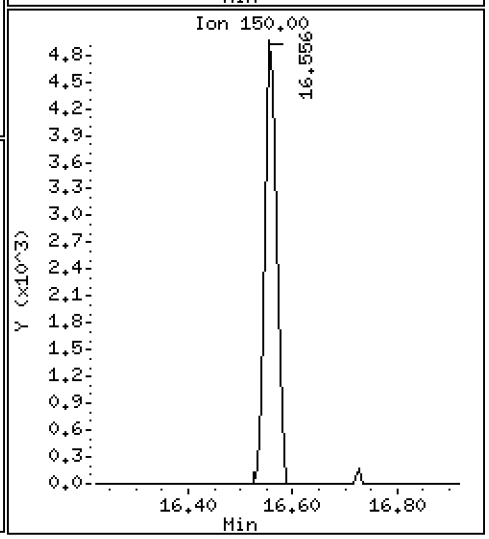












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

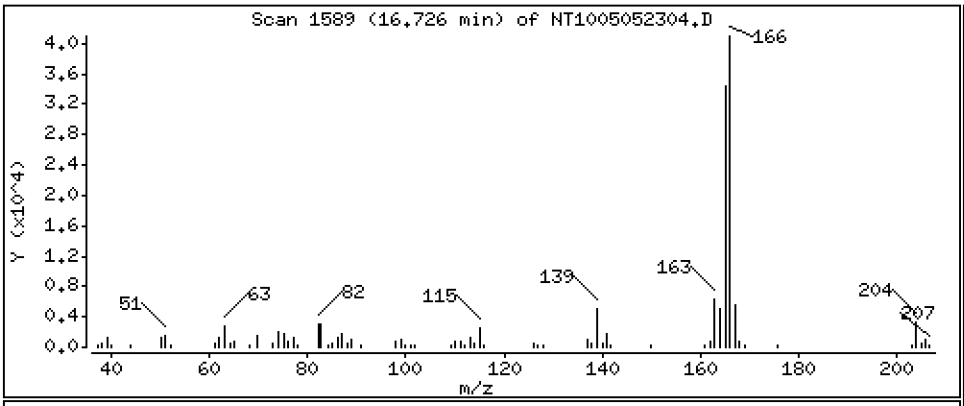
Operator: VTS

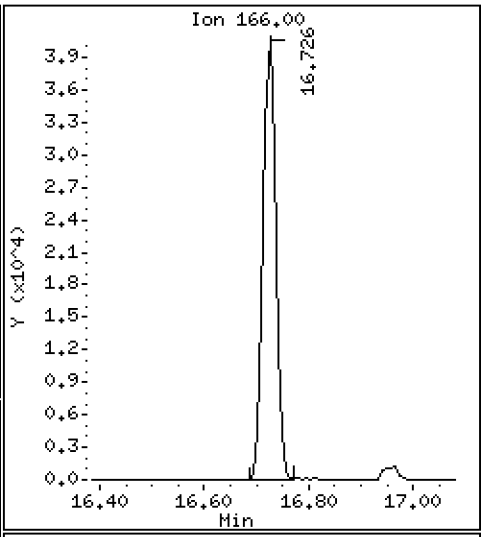
Column phase: ZB-5msi

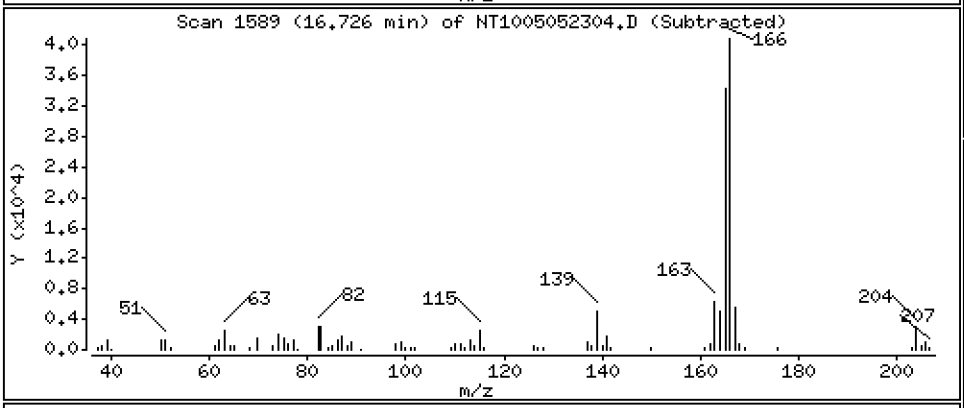
Column diameter: 0.25

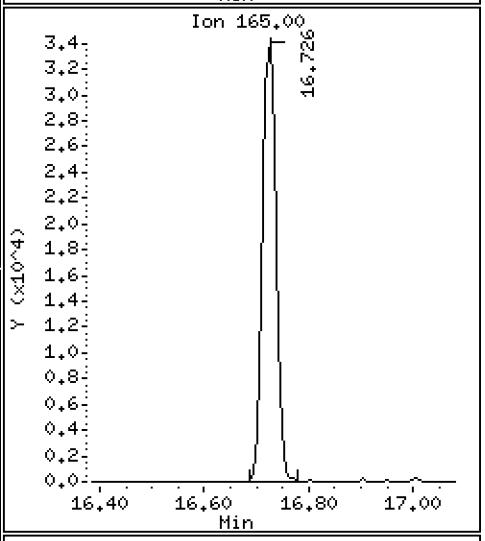
49 Fluorene

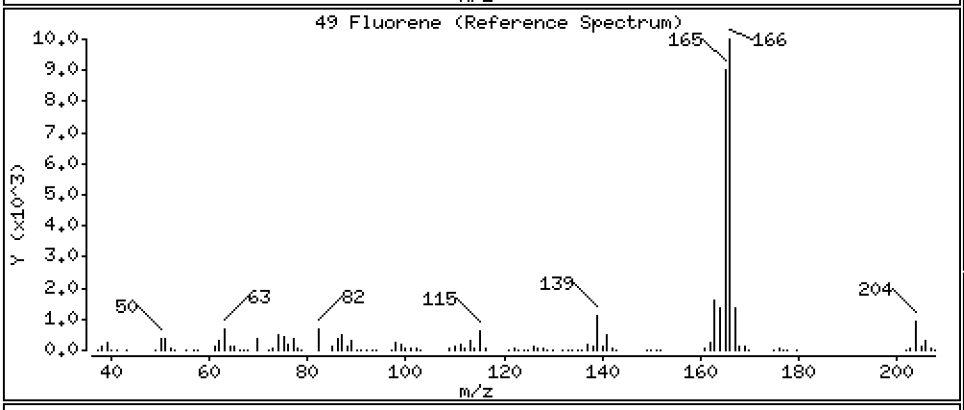
Concentration: 0.4453 ug/mL

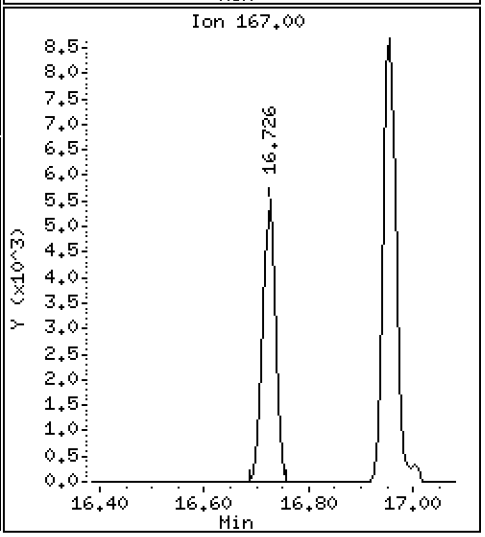


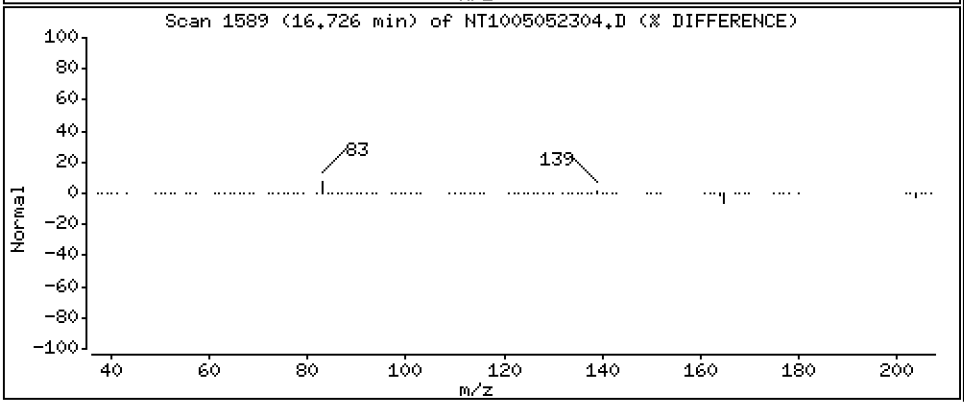












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

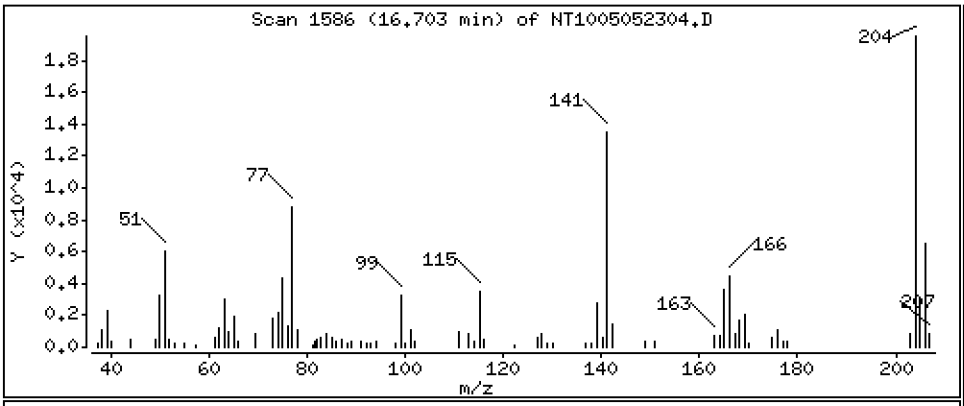
Operator: VTS

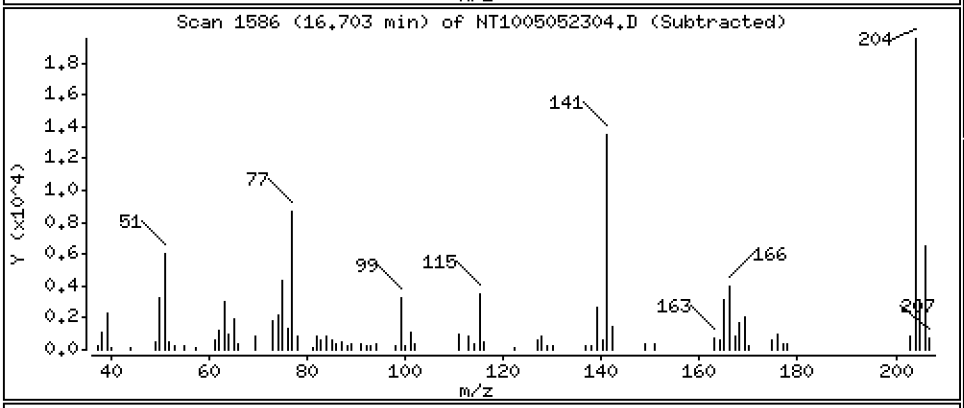
Column phase: ZB-5msi

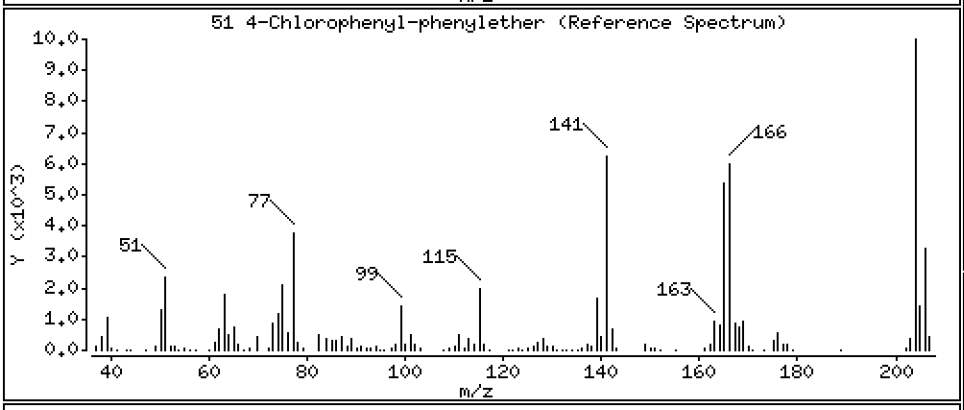
Column diameter: 0.25

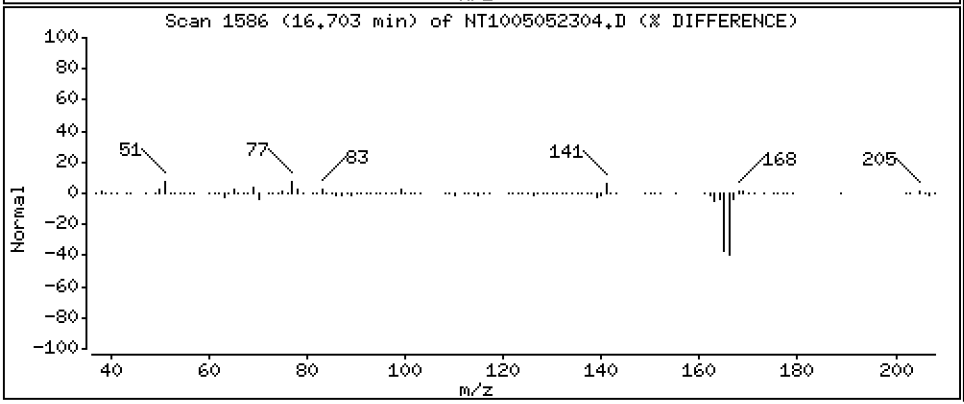
51 4-Chlorophenyl-phenylether

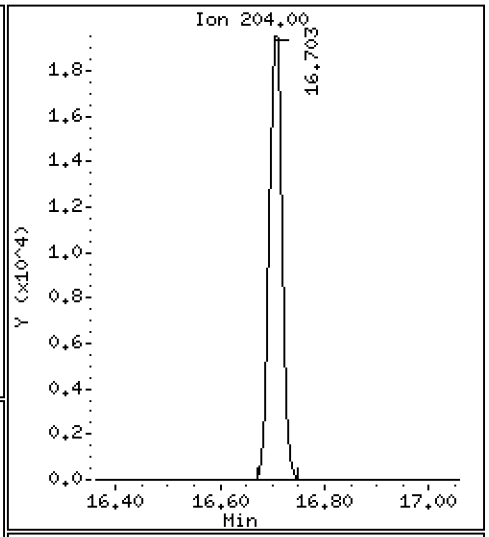
Concentration: 0.4351 ug/mL

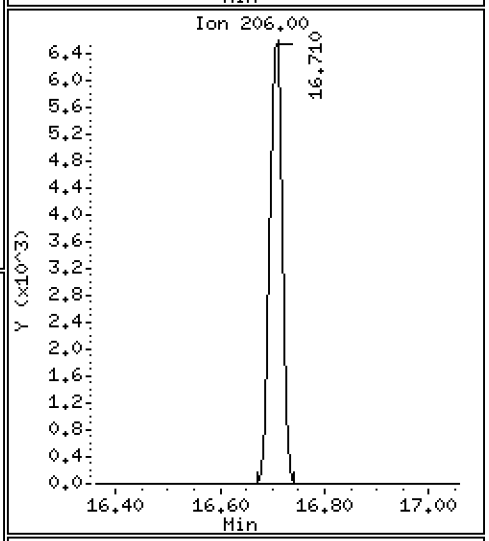


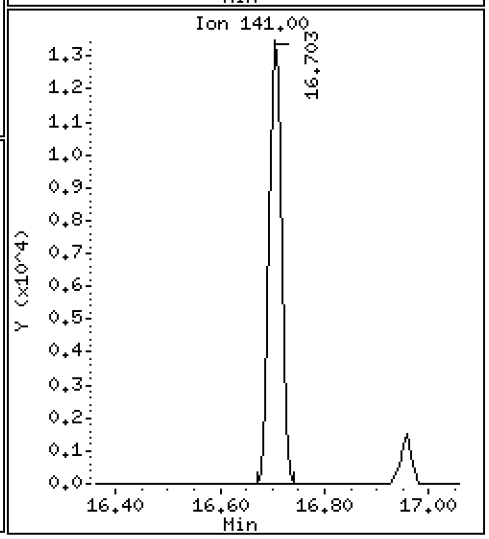












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

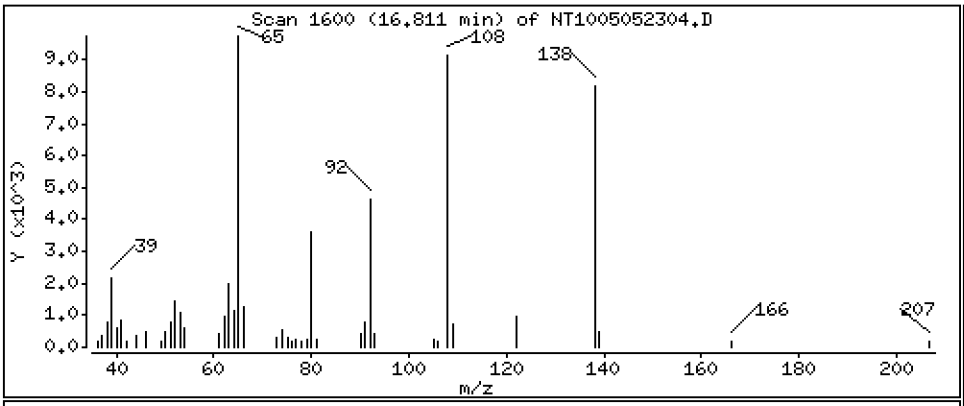
Operator: VTS

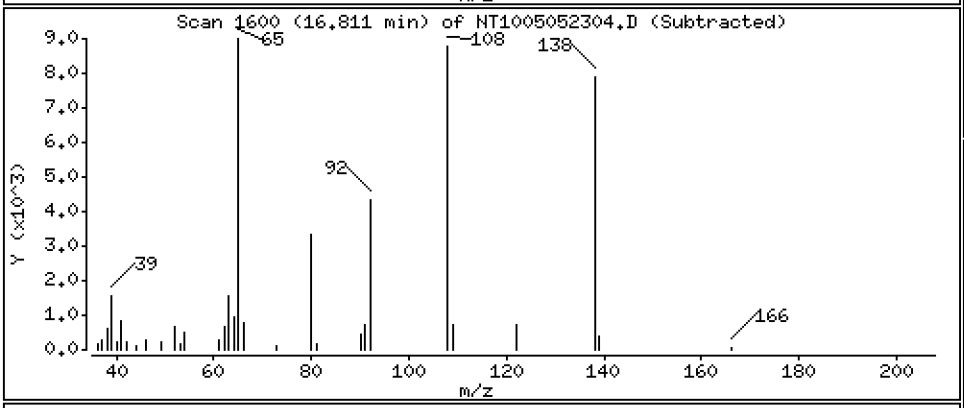
Column phase: ZB-5msi

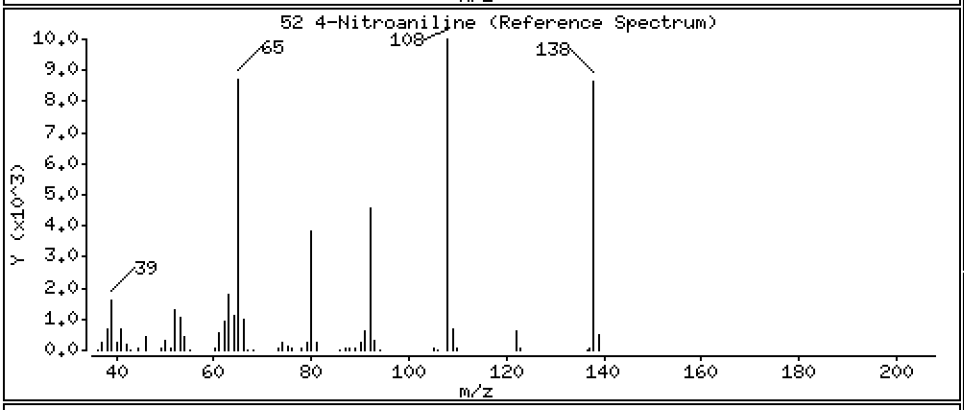
Column diameter: 0.25

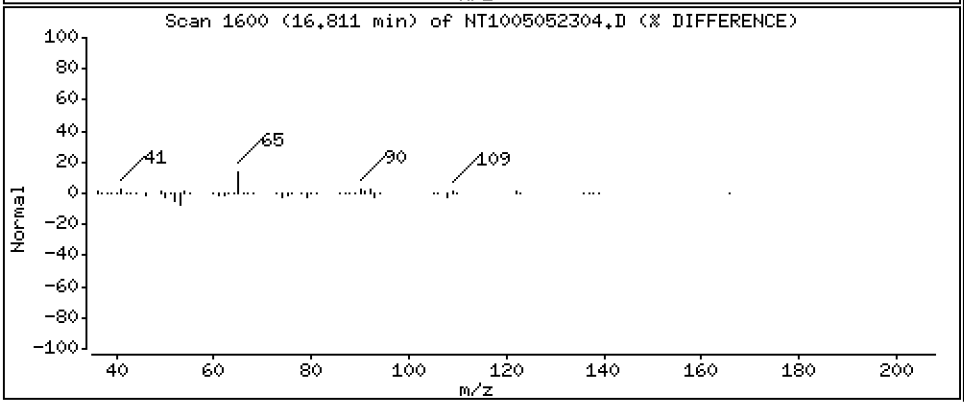
52 4-Nitroaniline

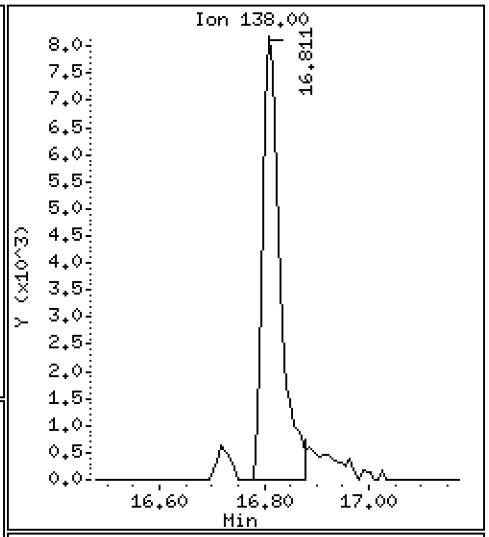
Concentration: 0.6285 ug/mL

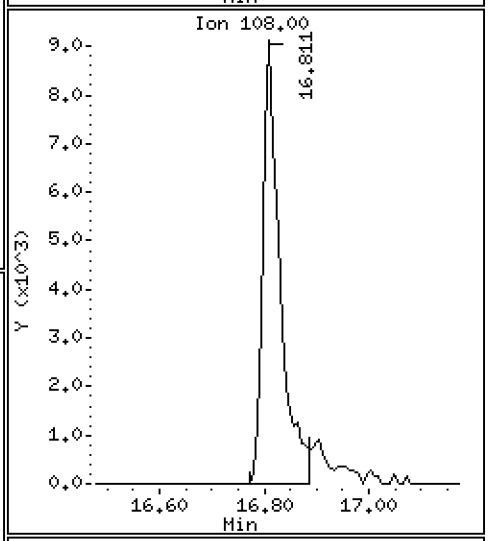


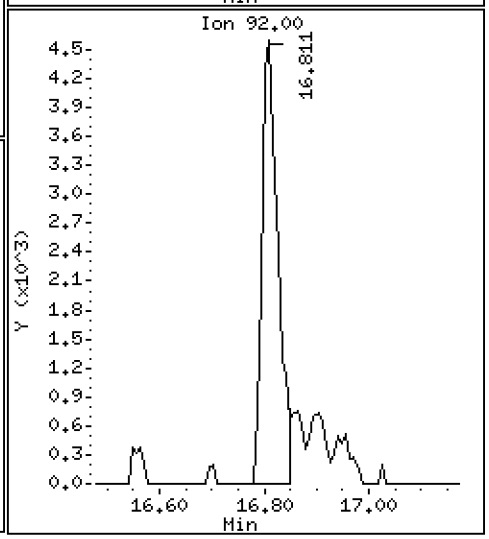












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

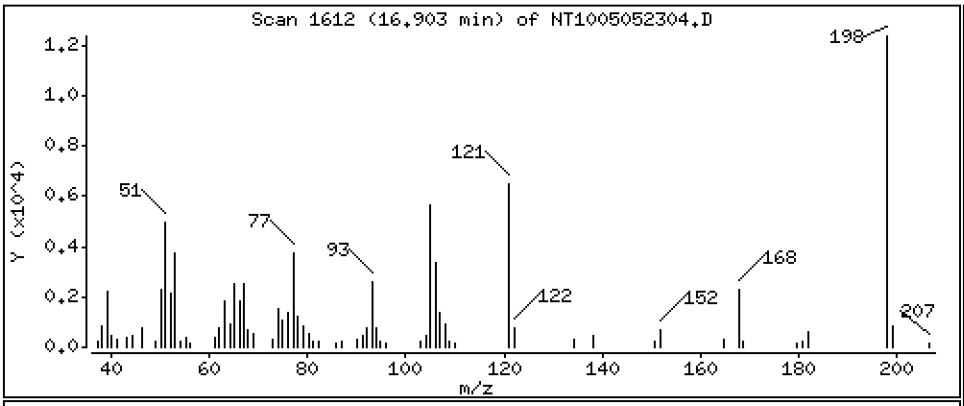
Operator: VTS

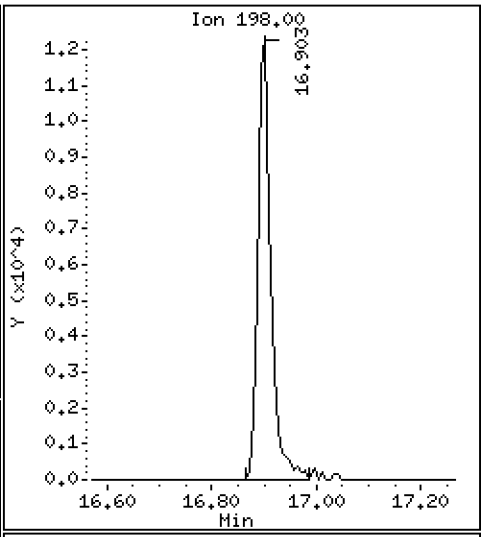
Column phase: ZB-5msi

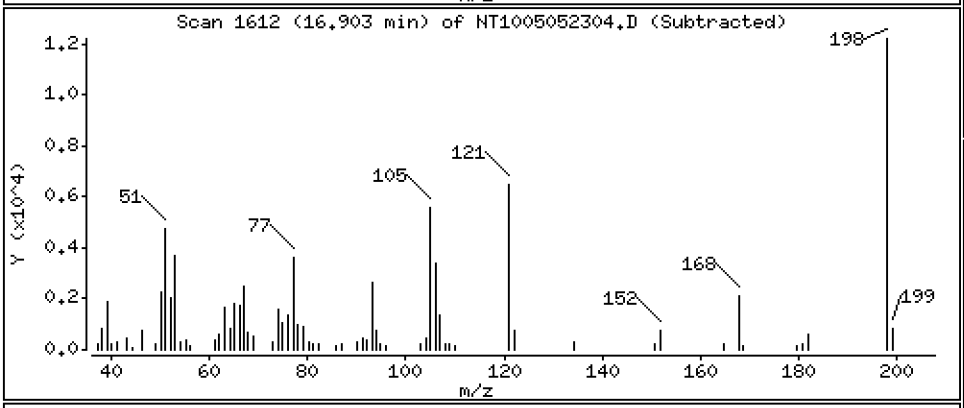
Column diameter: 0.25

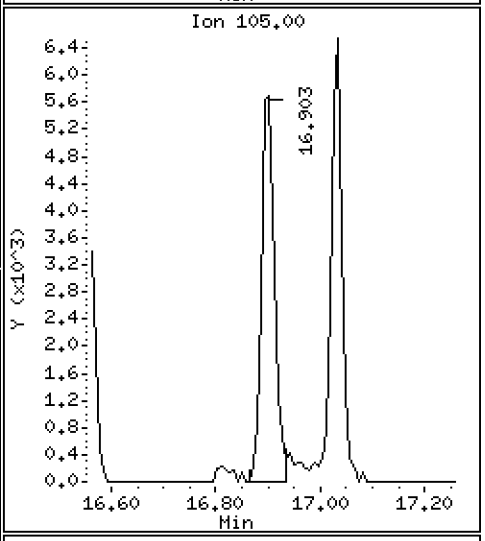
53 4,6-Dinitro-2-methylphenol

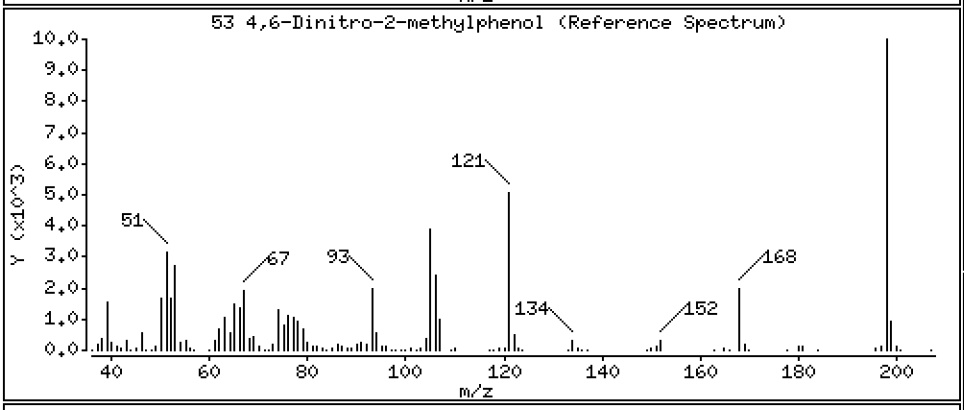
Concentration: 0.7835 ug/mL

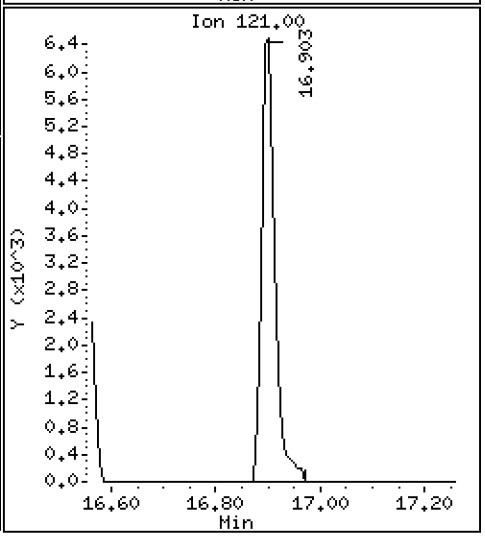


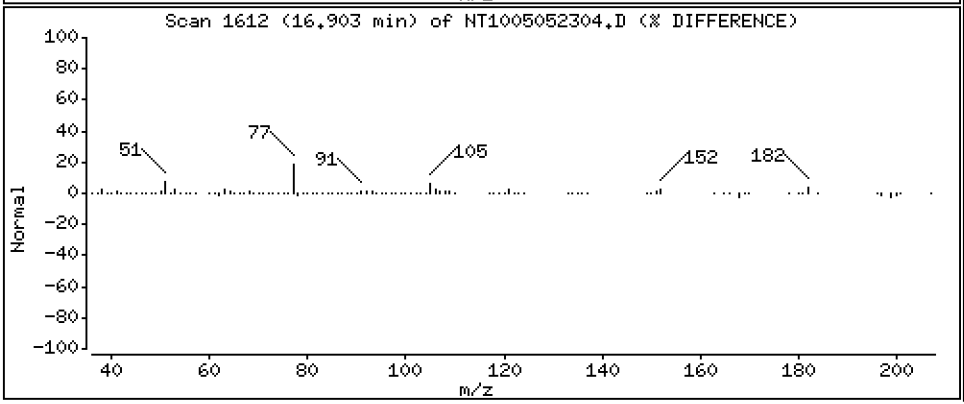












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

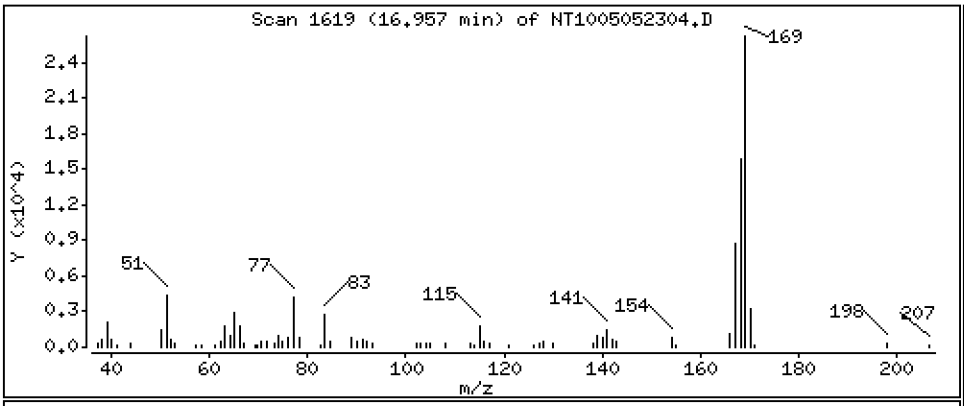
Operator: VTS

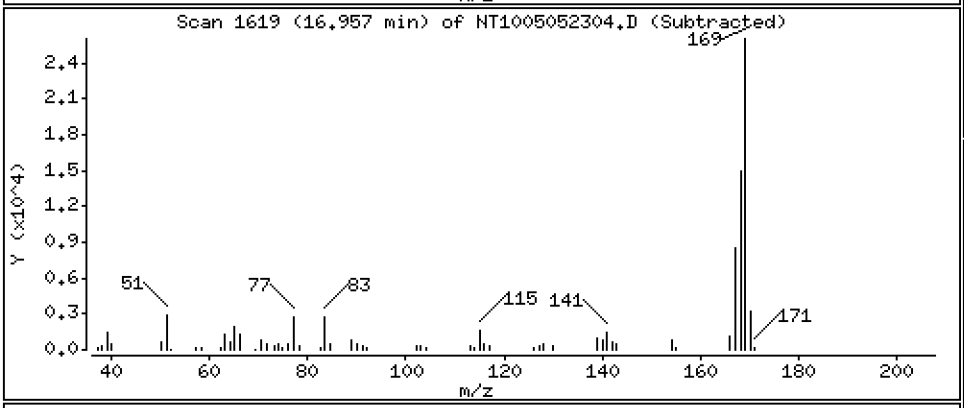
Column phase: ZB-5msi

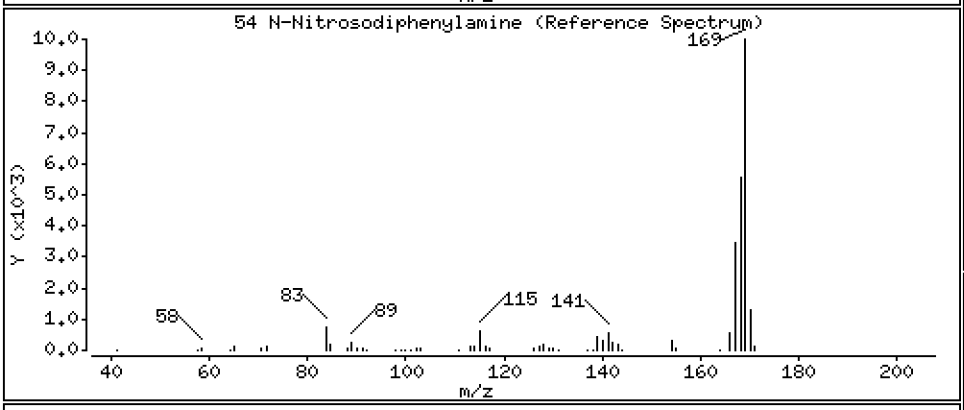
Column diameter: 0.25

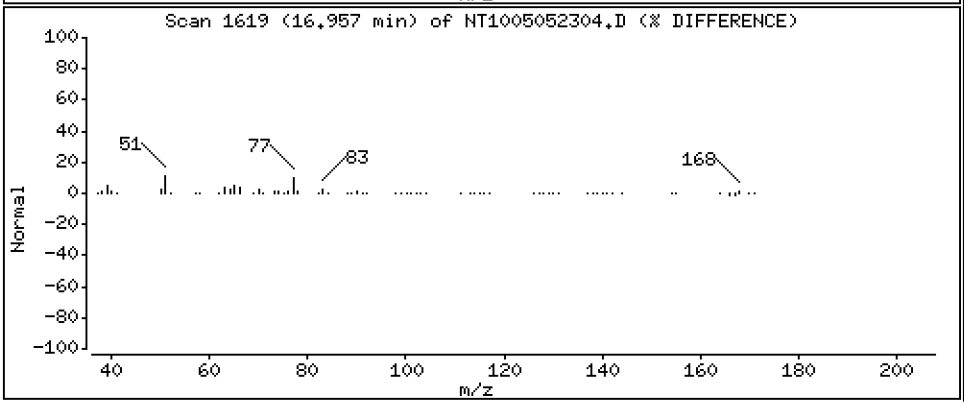
54 N-Nitrosodiphenylamine

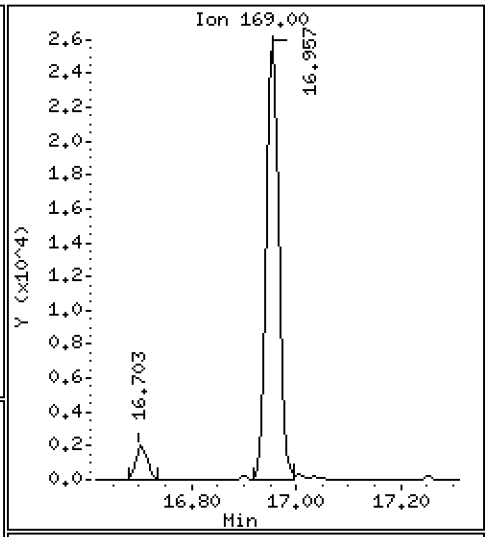
Concentration: 0.4466 ug/mL

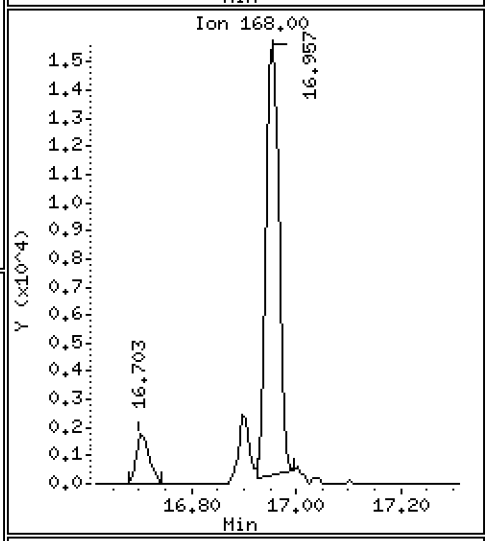


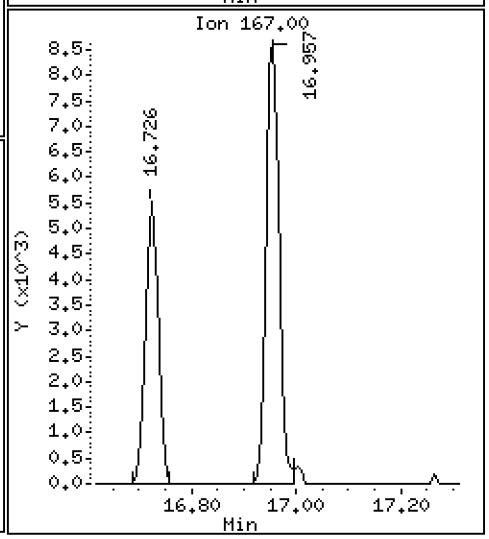












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

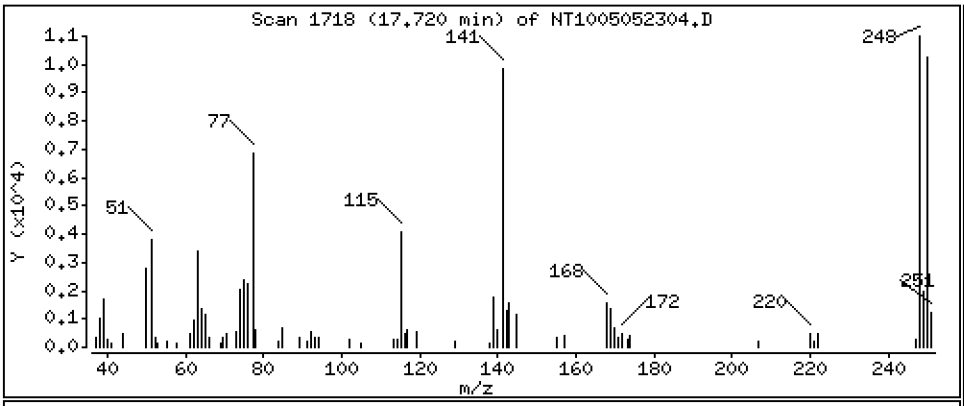
Operator: VTS

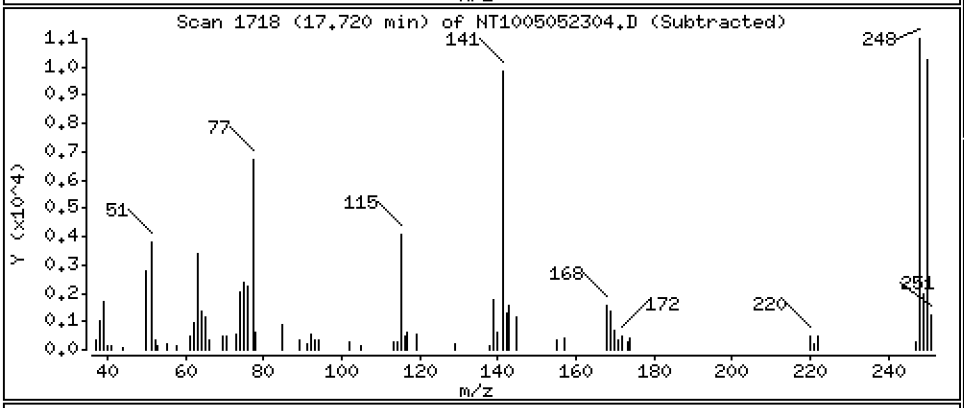
Column phase: ZB-5msi

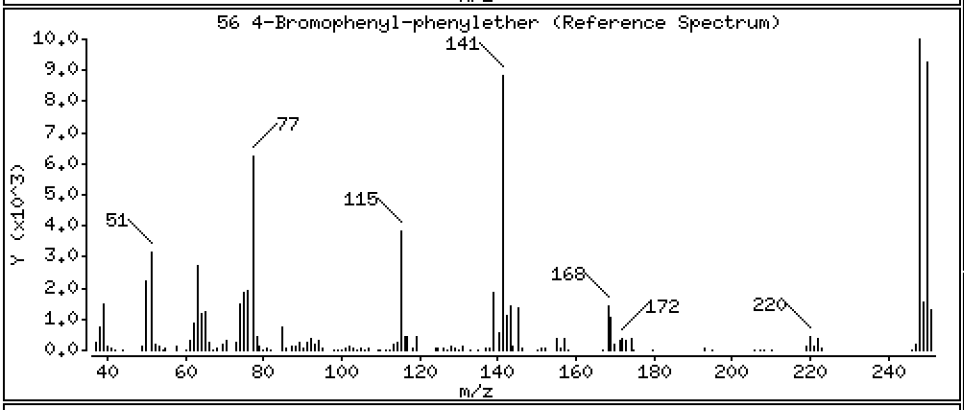
Column diameter: 0.25

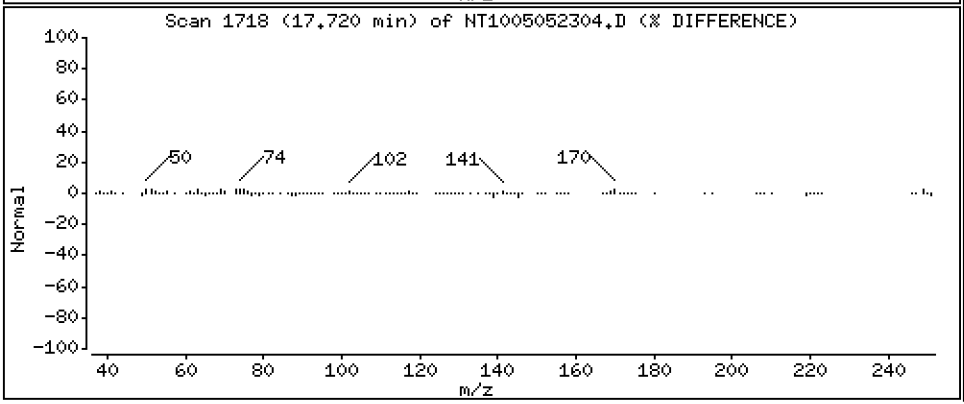
56 4-Bromophenyl-phenylether

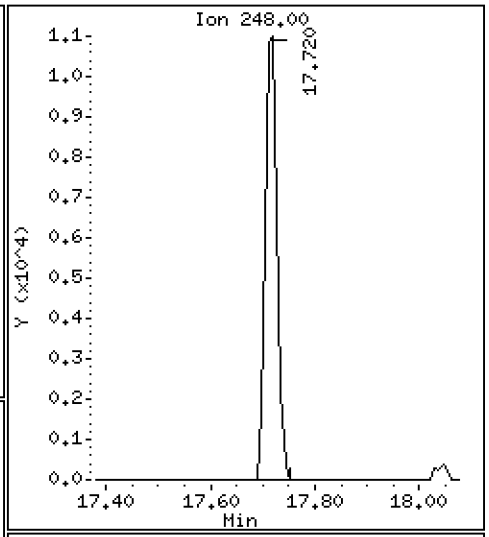
Concentration: 0.4147 ug/mL

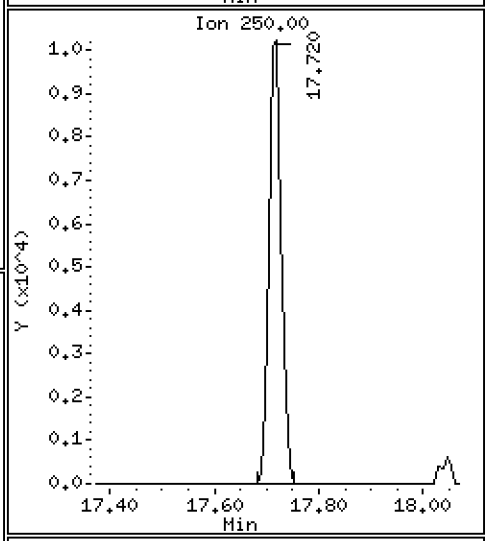


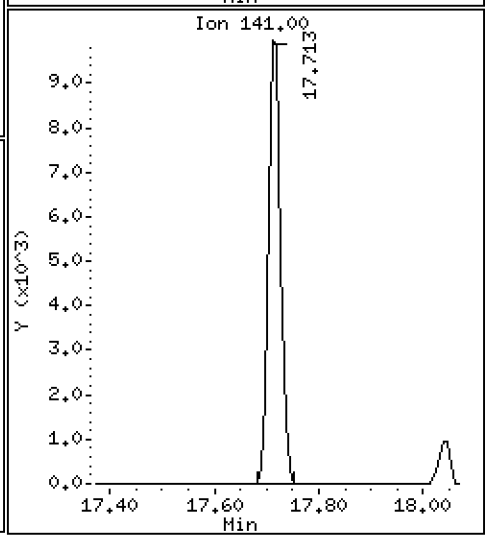












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

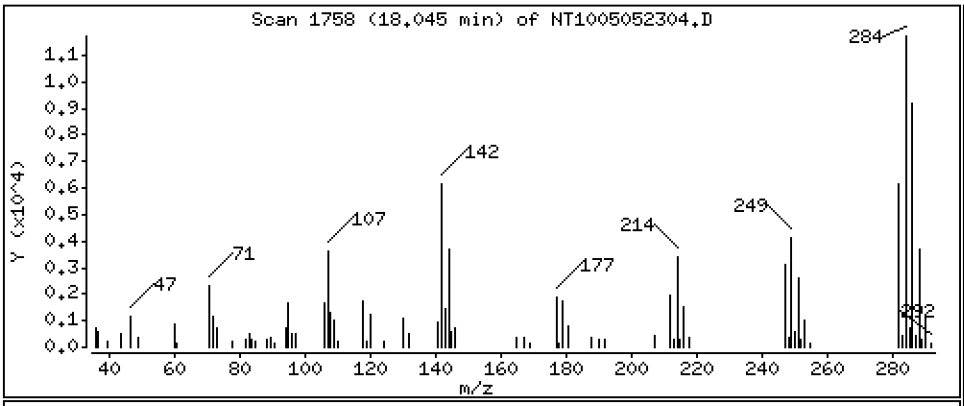
Operator: VTS

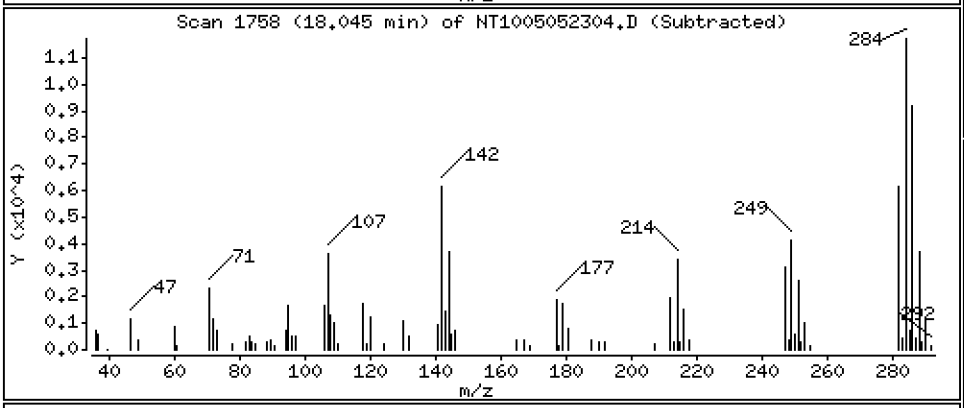
Column phase: ZB-5msi

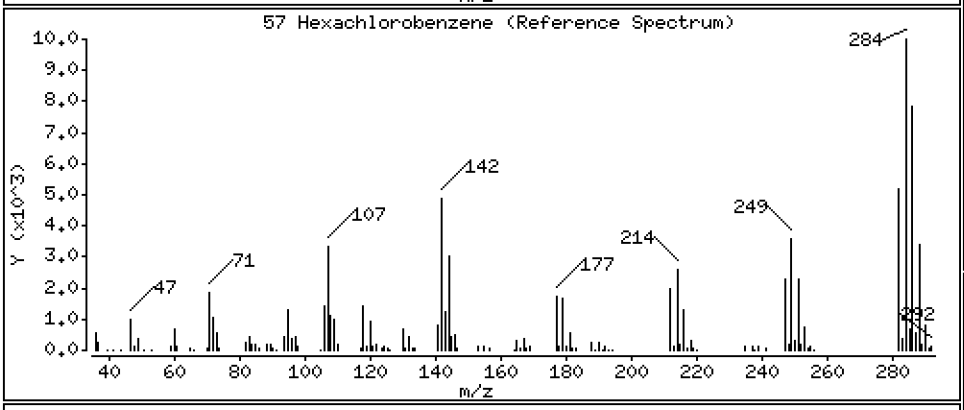
Column diameter: 0.25

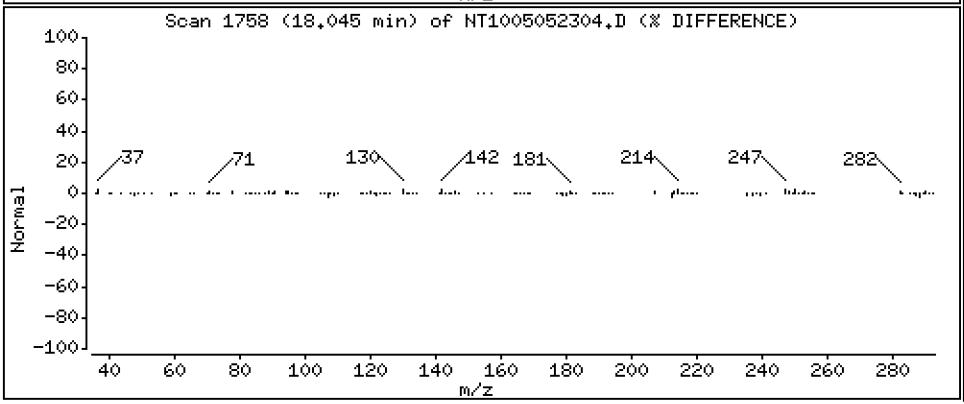
57 Hexachlorobenzene

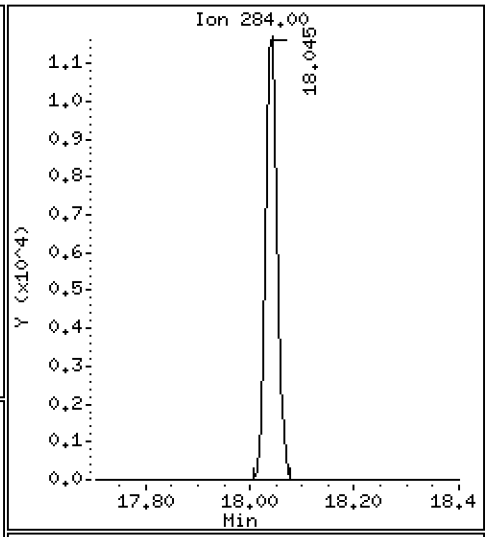
Concentration: 0.4382 ug/mL

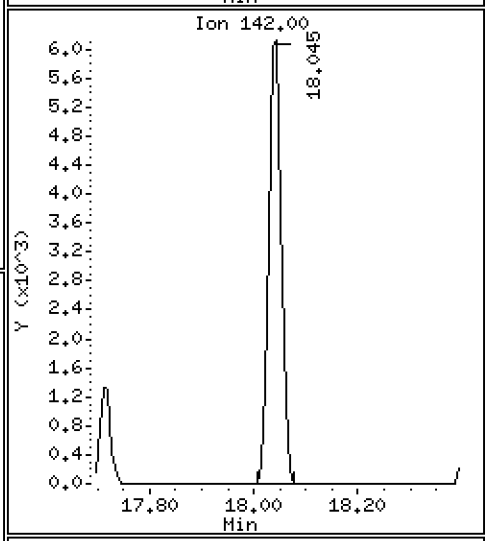


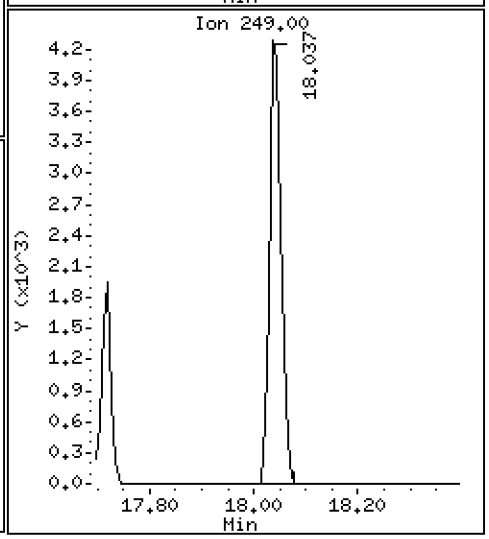












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

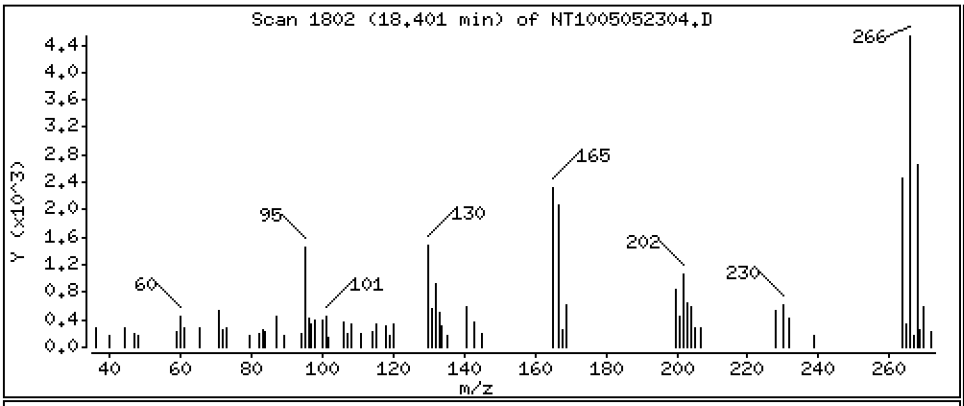
Operator: VTS

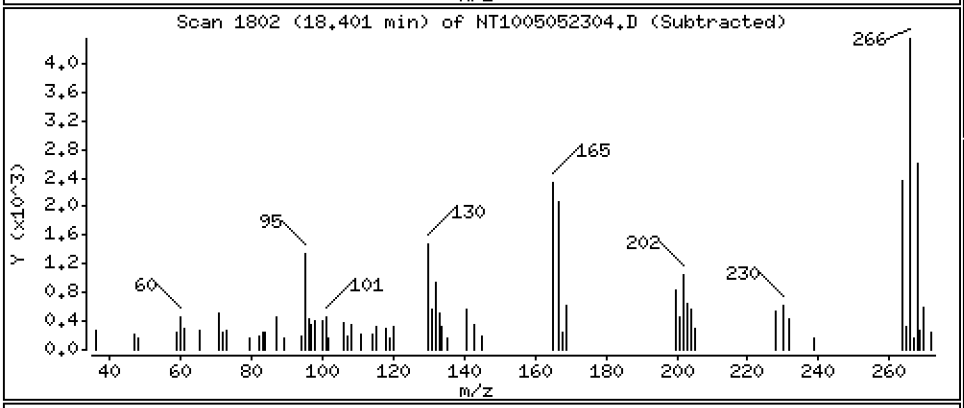
Column phase: ZB-5msi

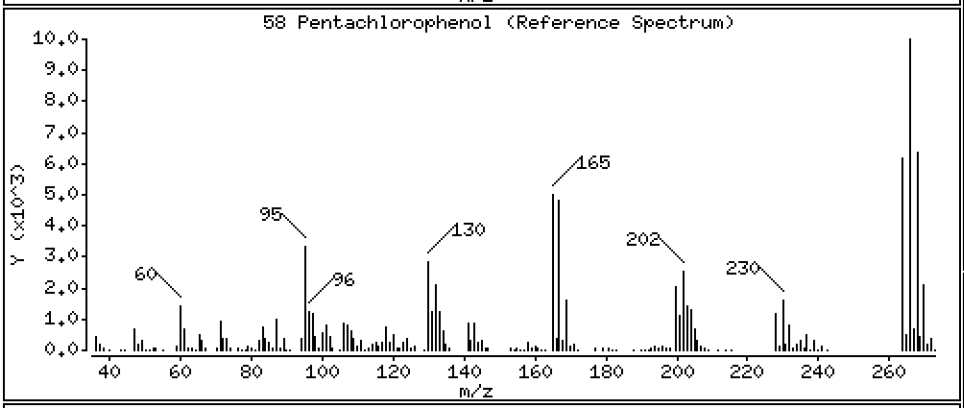
Column diameter: 0.25

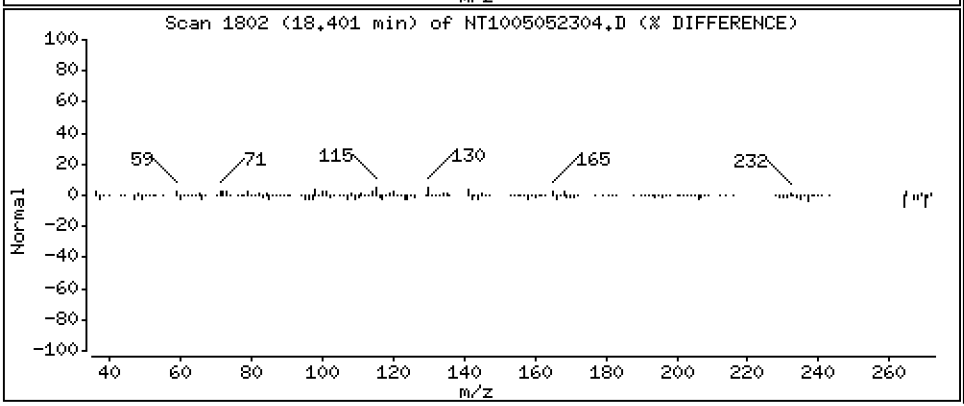
58 Pentachlorophenol

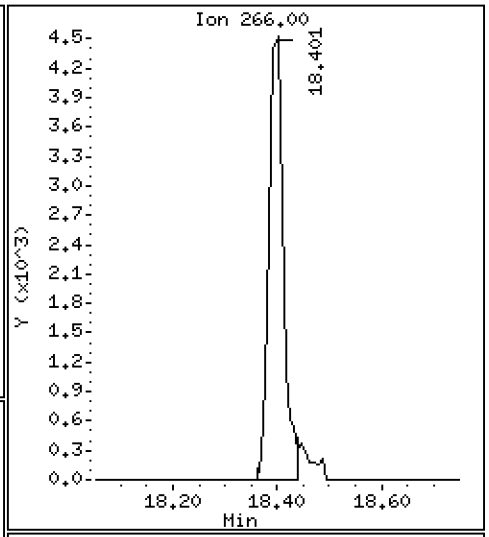
Concentration: 0.2840 ug/mL

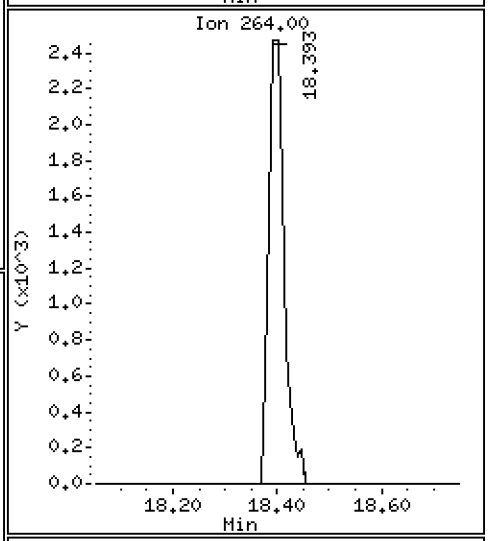


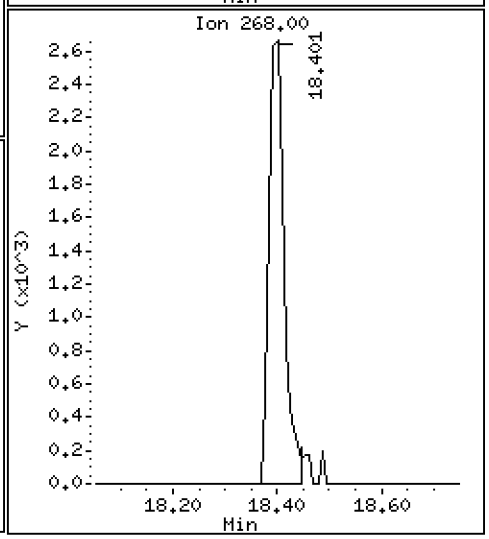












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

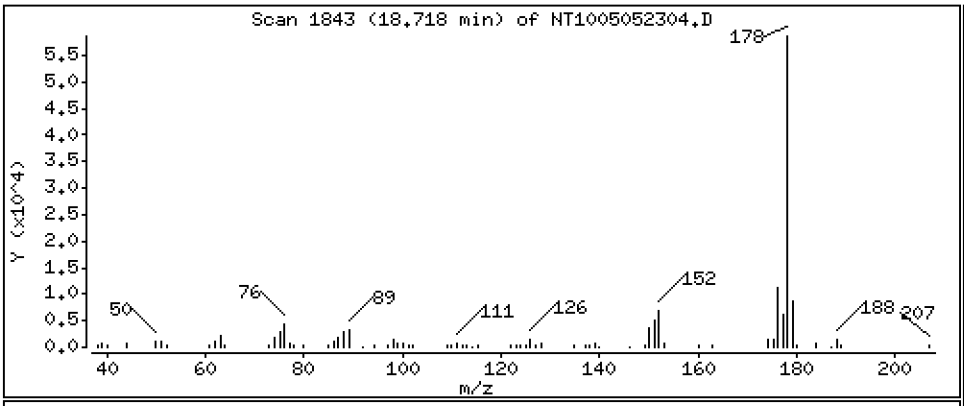
Operator: VTS

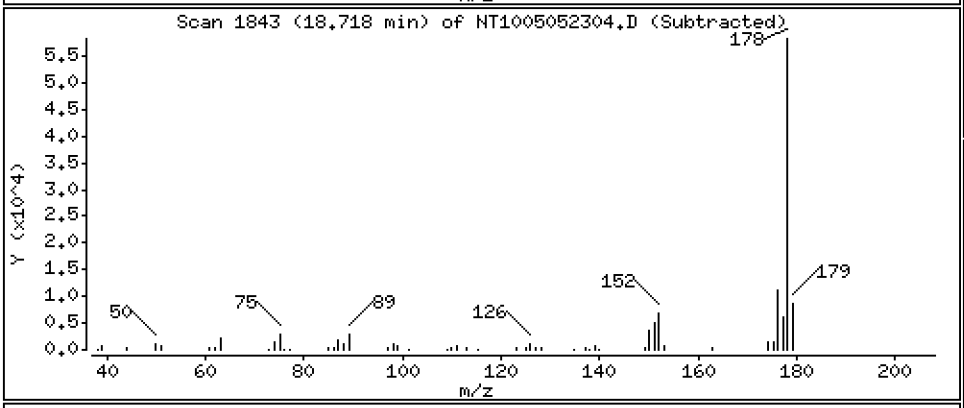
Column phase: ZB-5msi

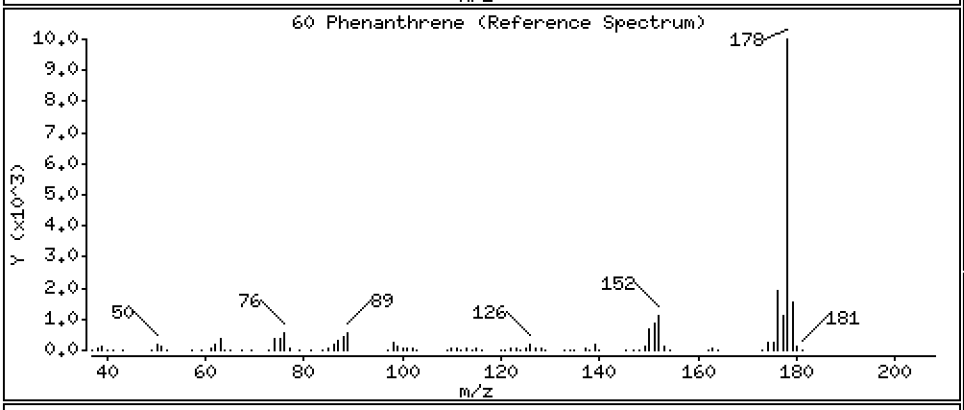
Column diameter: 0.25

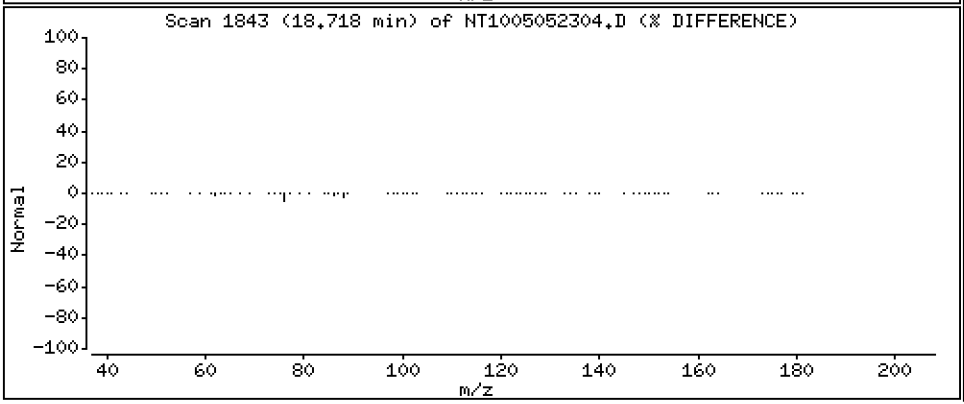
60 Phenanthrene

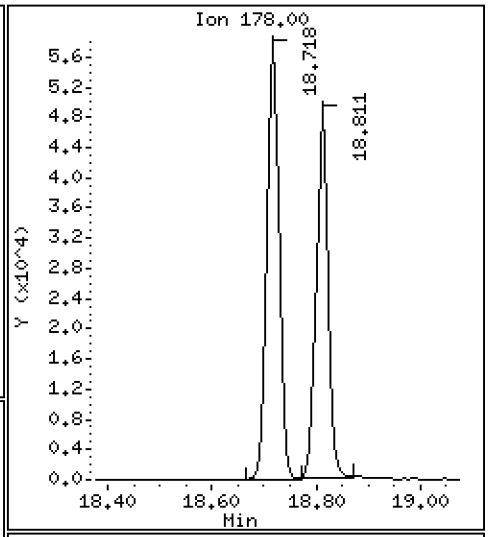
Concentration: 0.4394 ug/mL

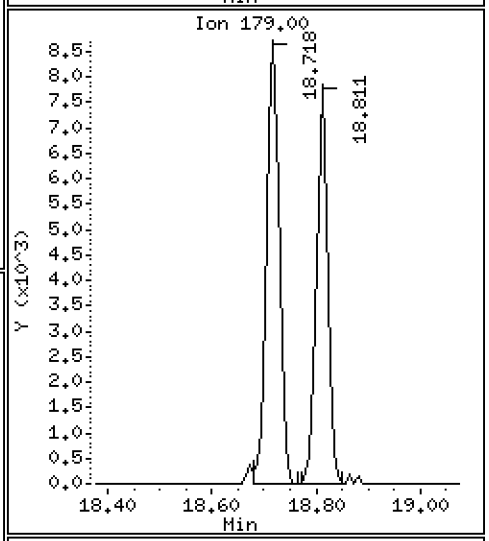


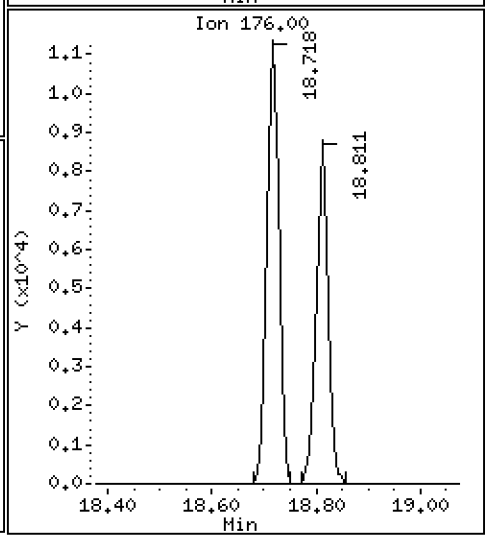












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

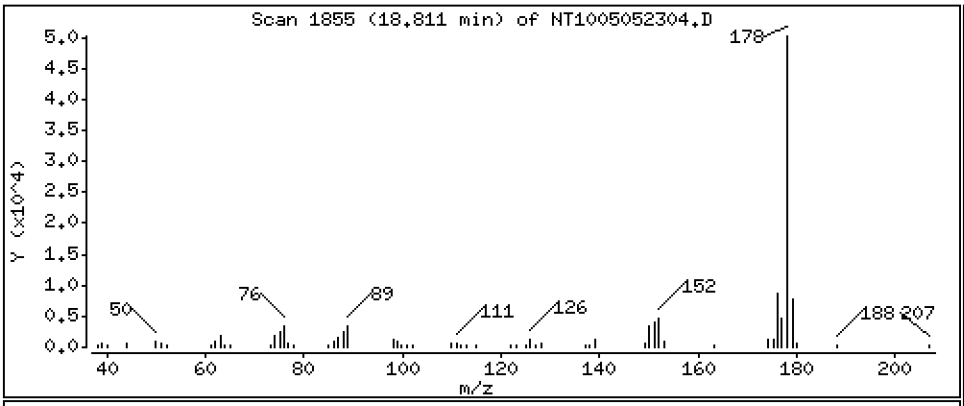
Operator: VTS

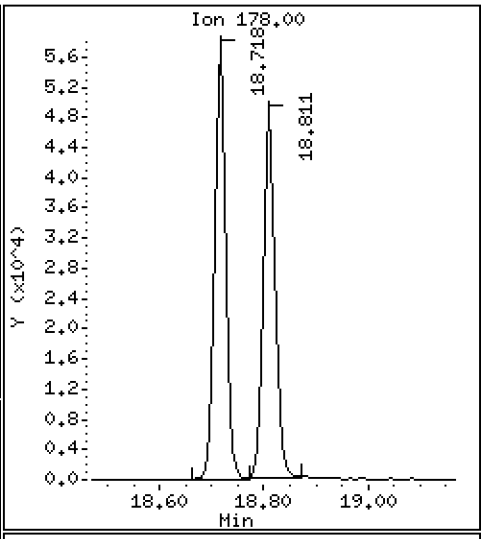
Column phase: ZB-5msi

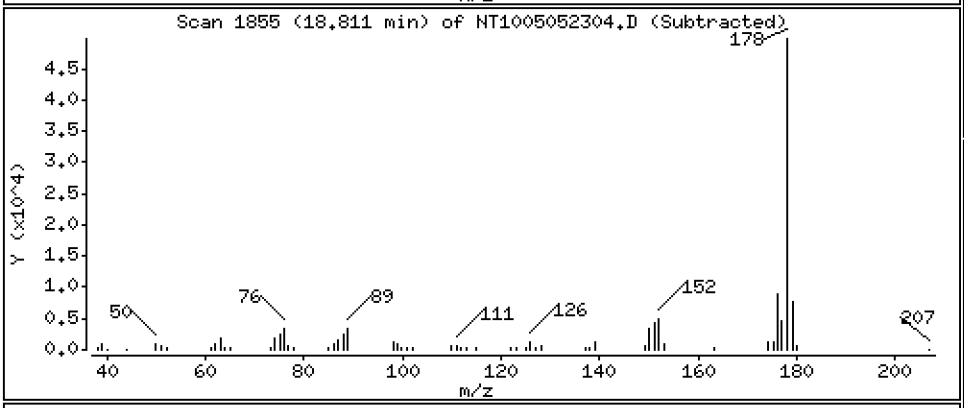
Column diameter: 0.25

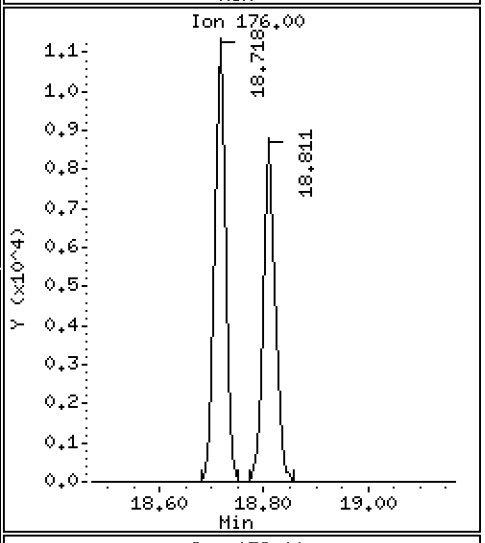
61 Anthracene

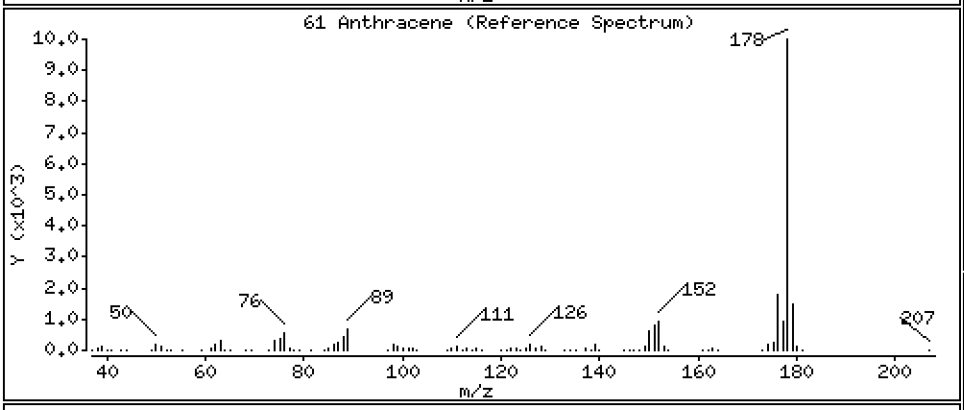
Concentration: 0.3967 ug/mL

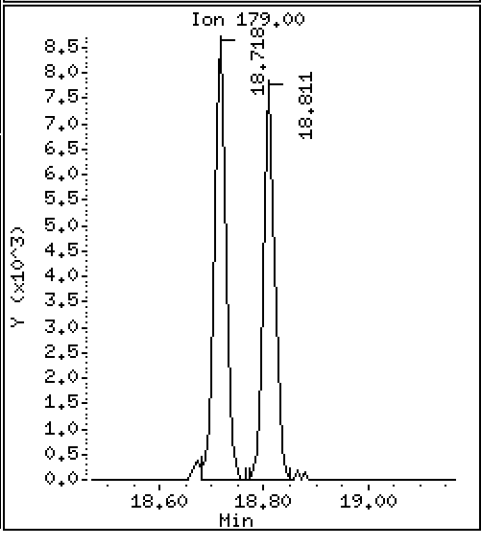


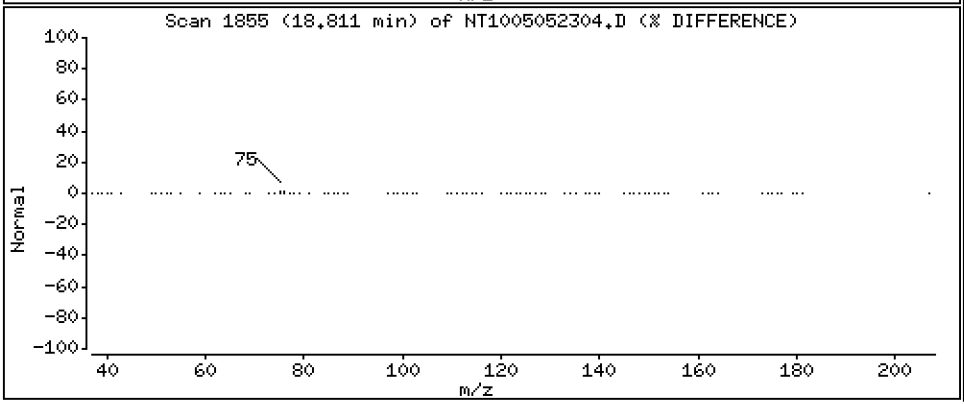












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

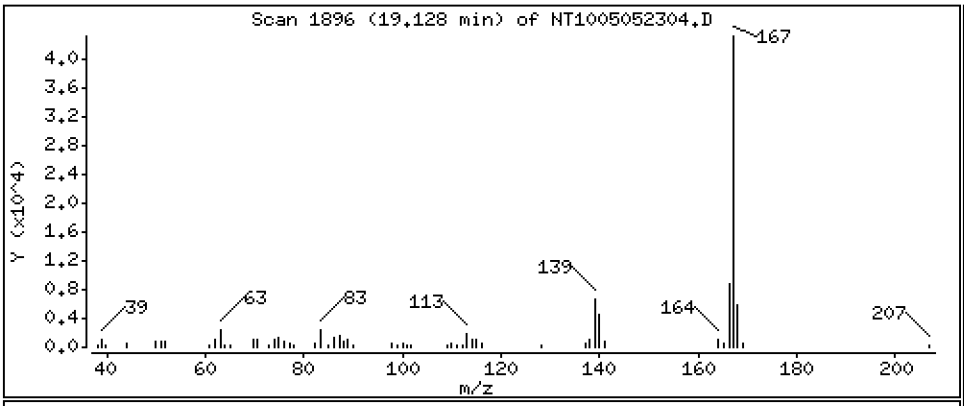
Operator: VTS

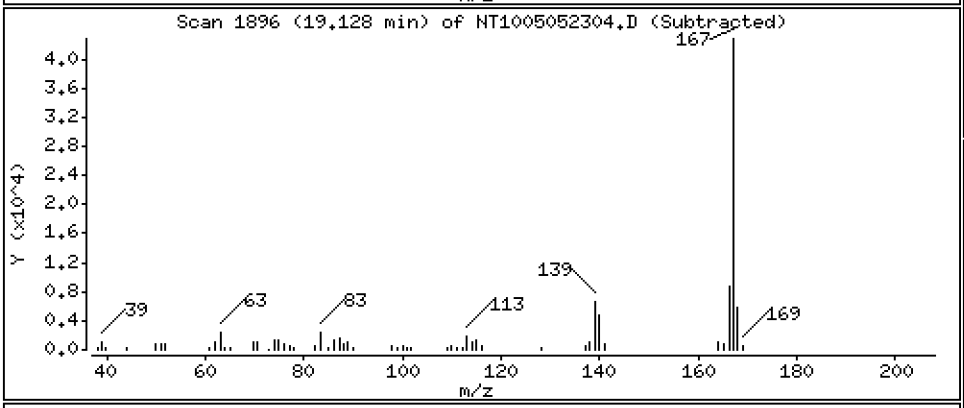
Column phase: ZB-5msi

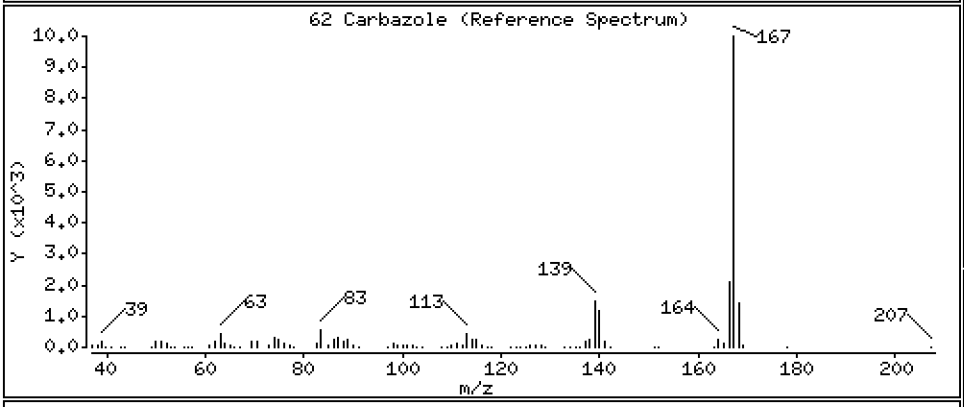
Column diameter: 0.25

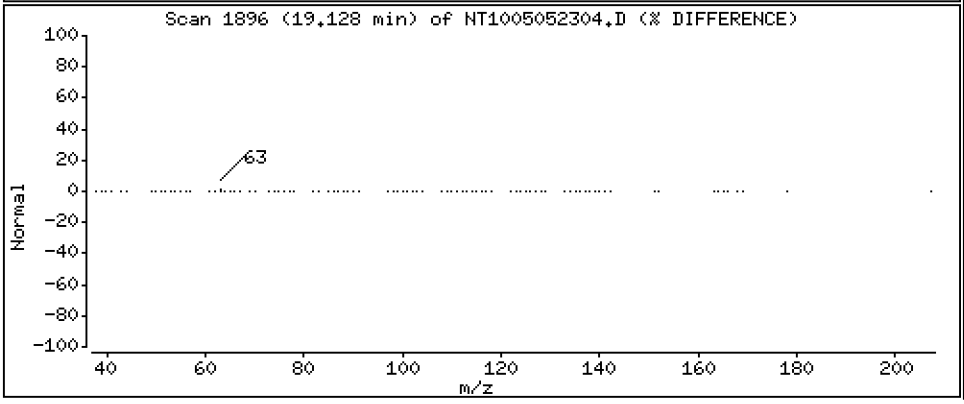
62 Carbazole

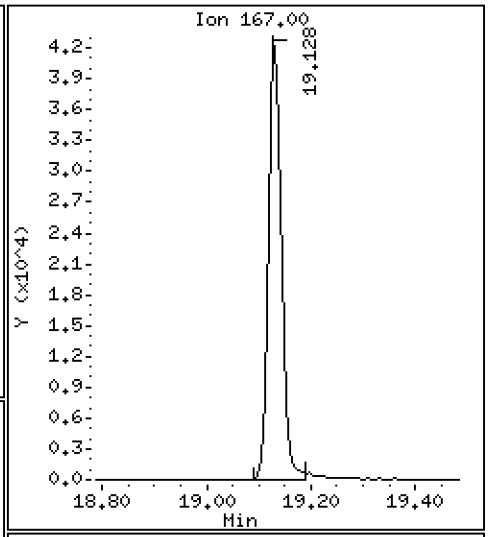
Concentration: 0.4257 ug/mL

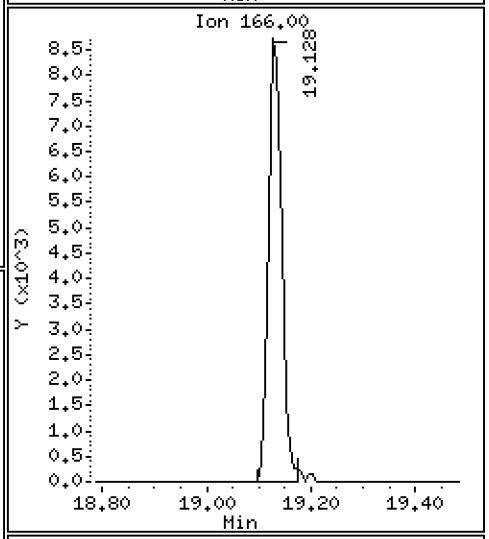


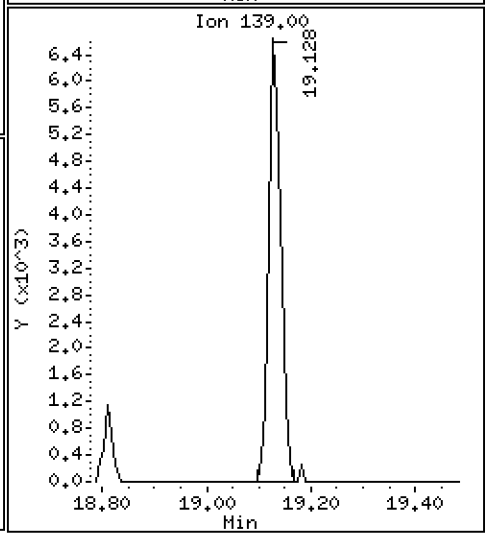












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

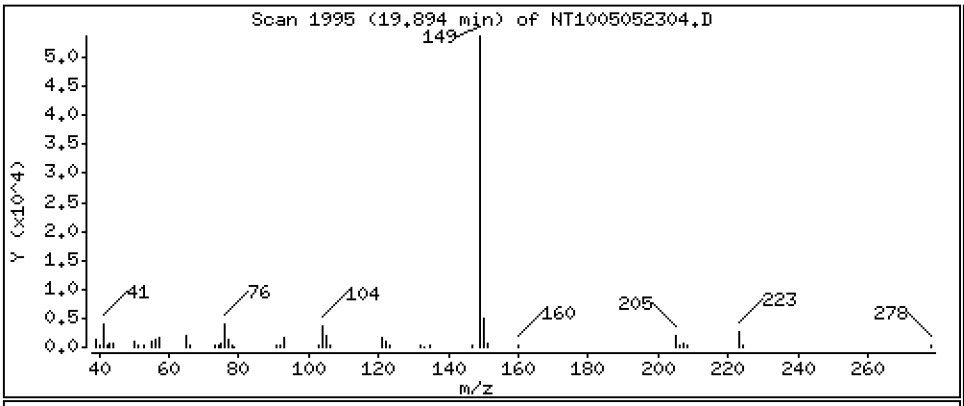
Operator: VTS

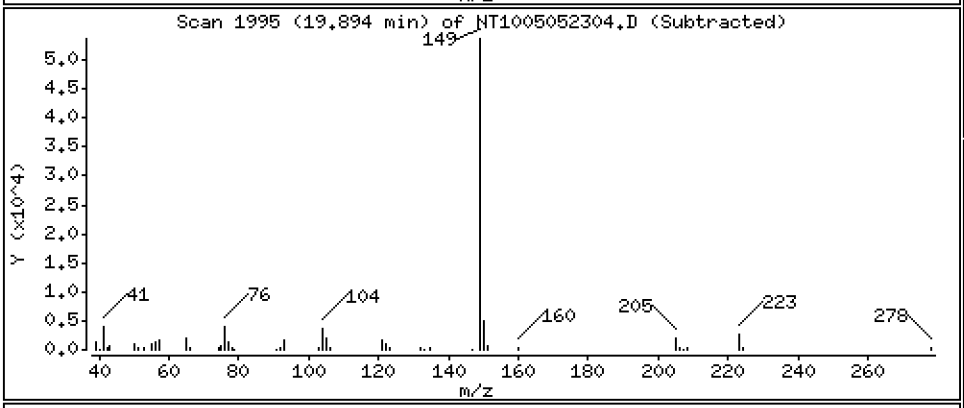
Column phase: ZB-5msi

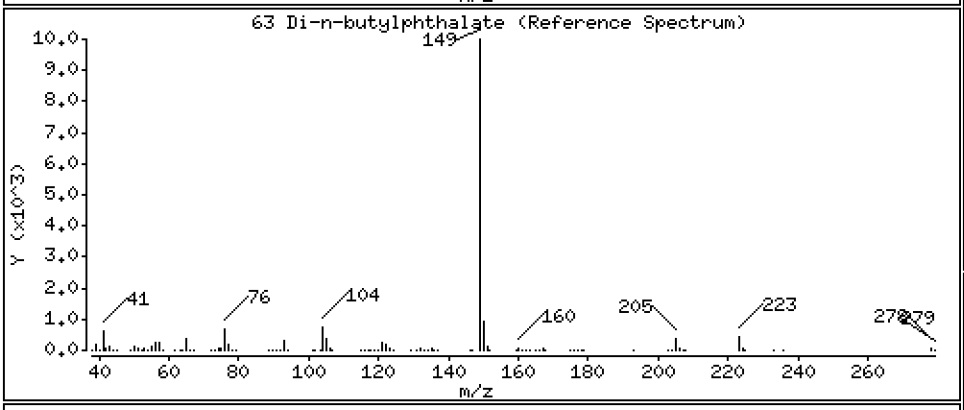
Column diameter: 0.25

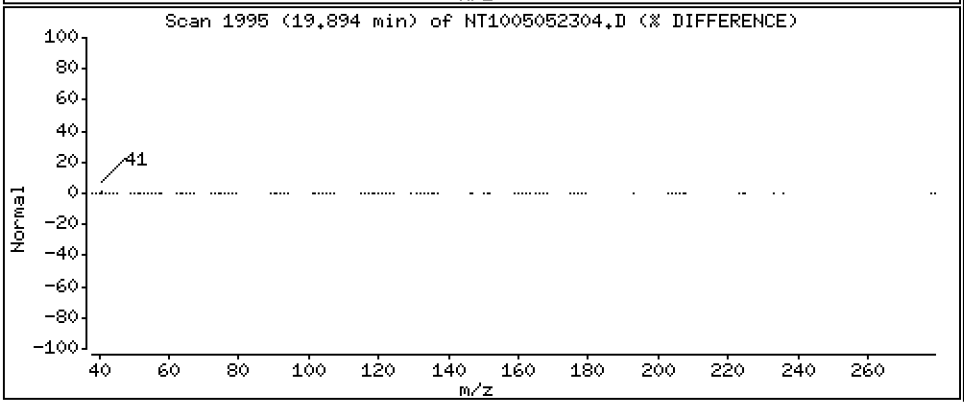
63 Di-n-butylphthalate

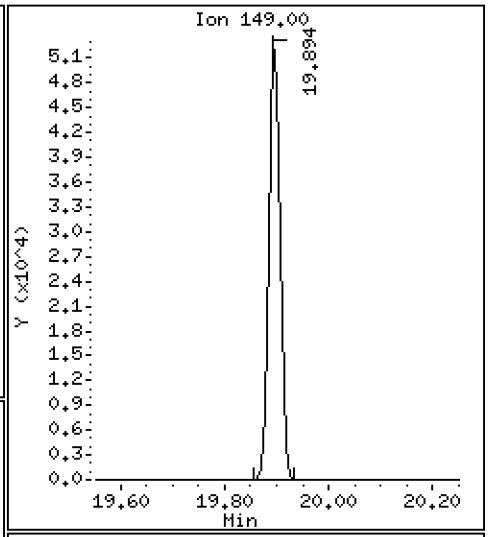
Concentration: 0.3040 ug/mL

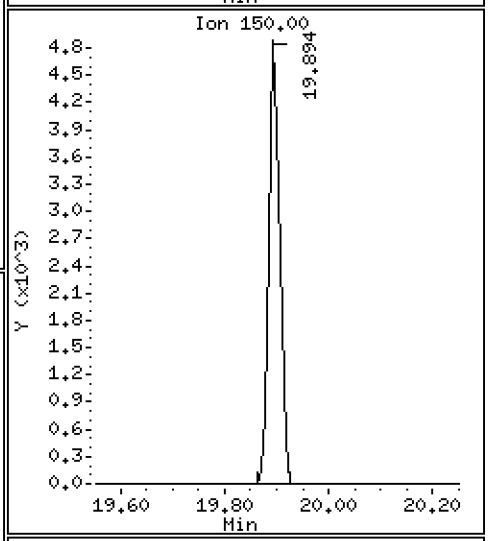


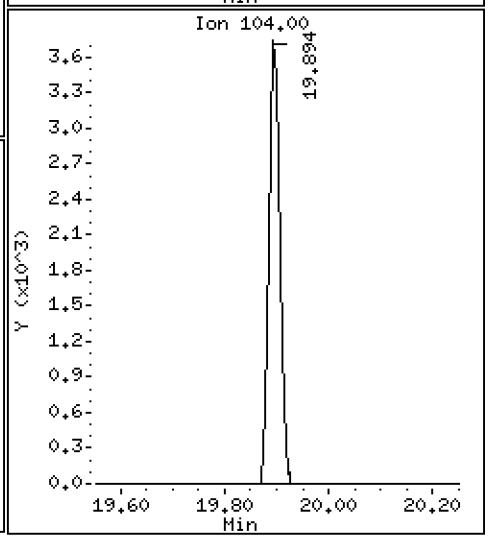












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

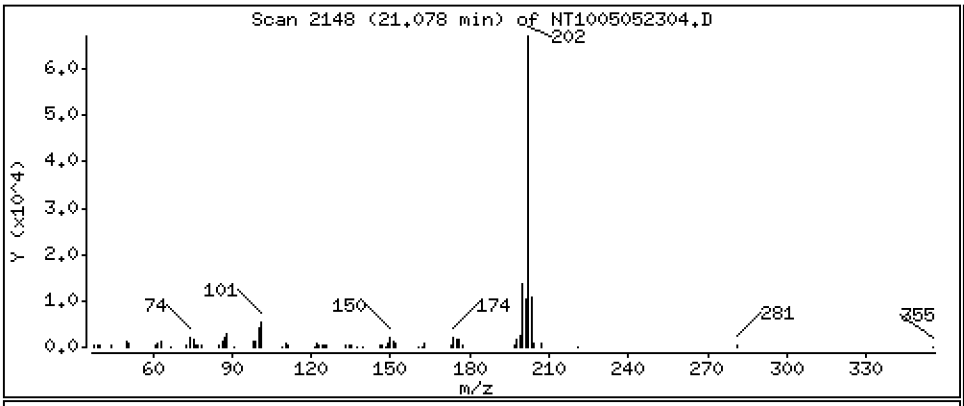
Operator: VTS

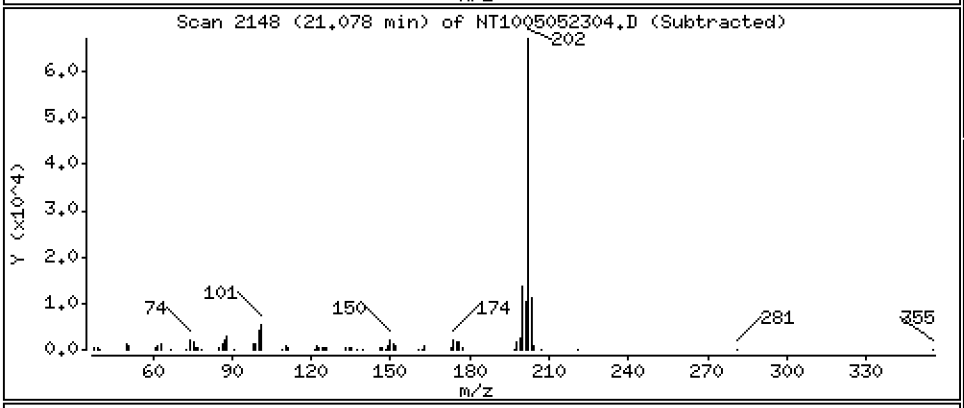
Column phase: ZB-5msi

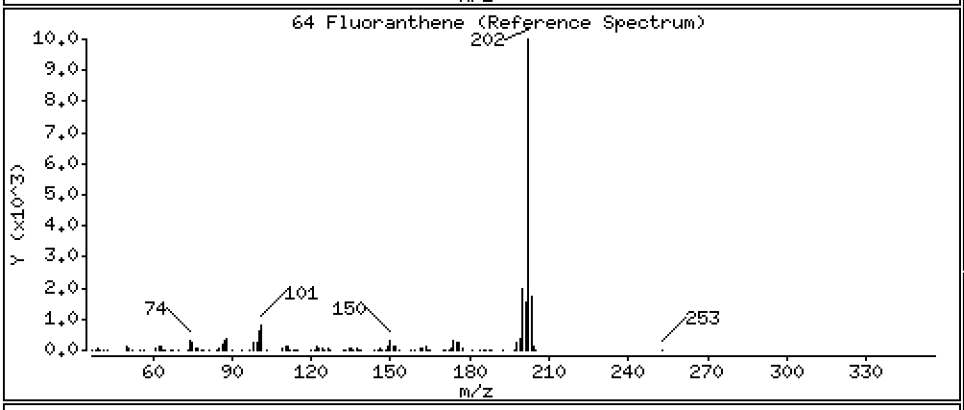
Column diameter: 0.25

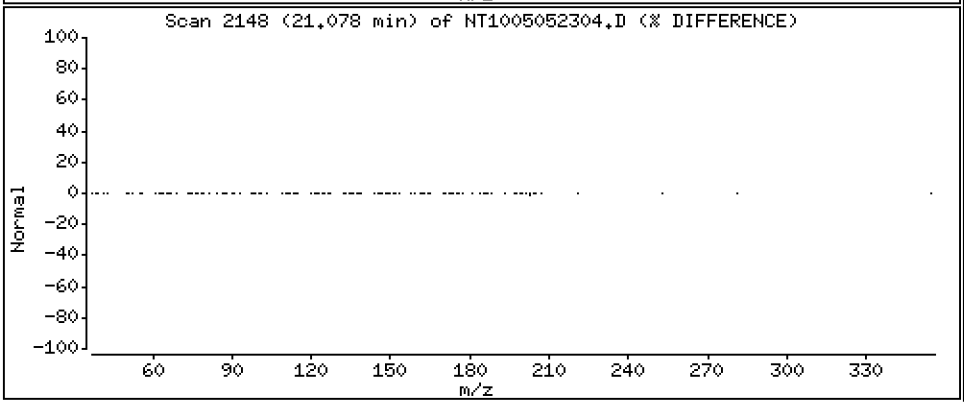
64 Fluoranthene

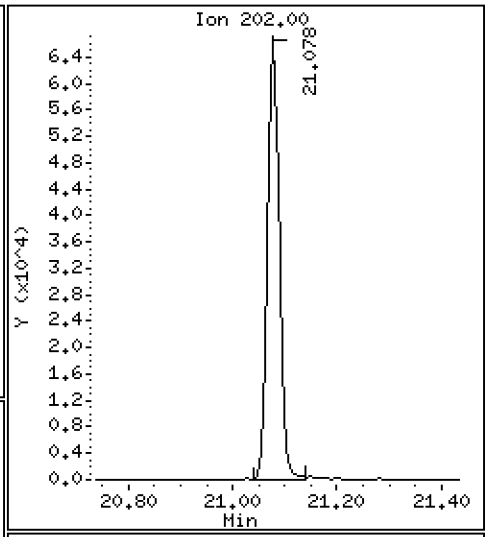
Concentration: 0.3827 ug/mL

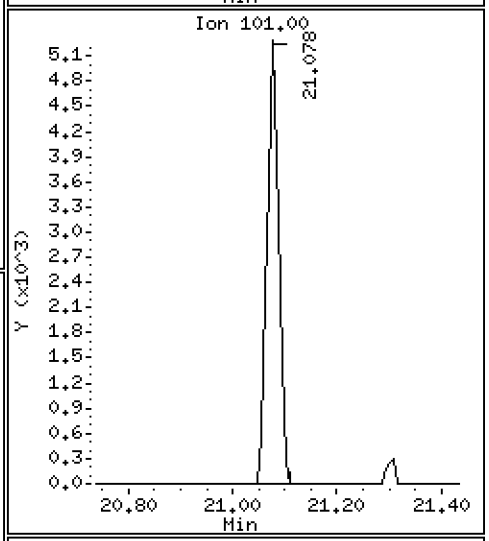


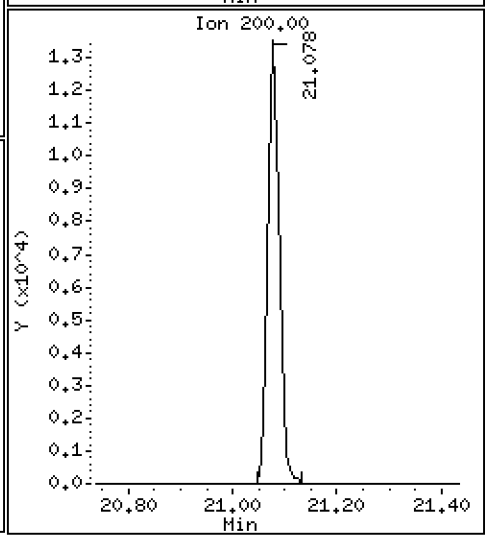












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

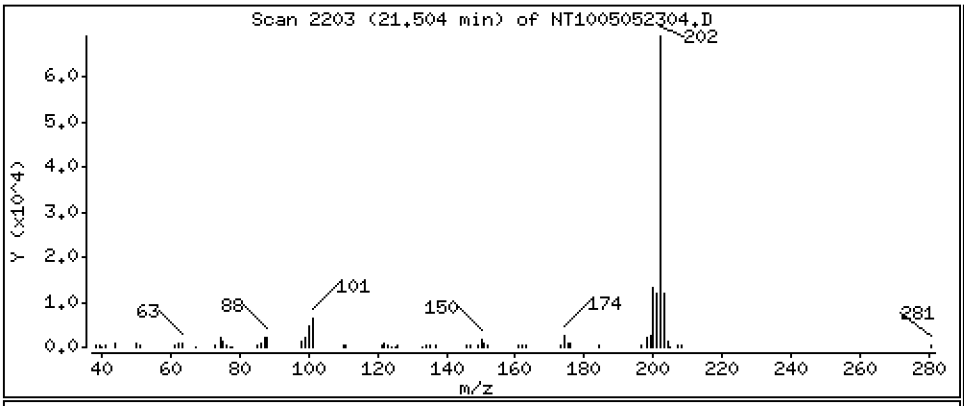
Operator: VTS

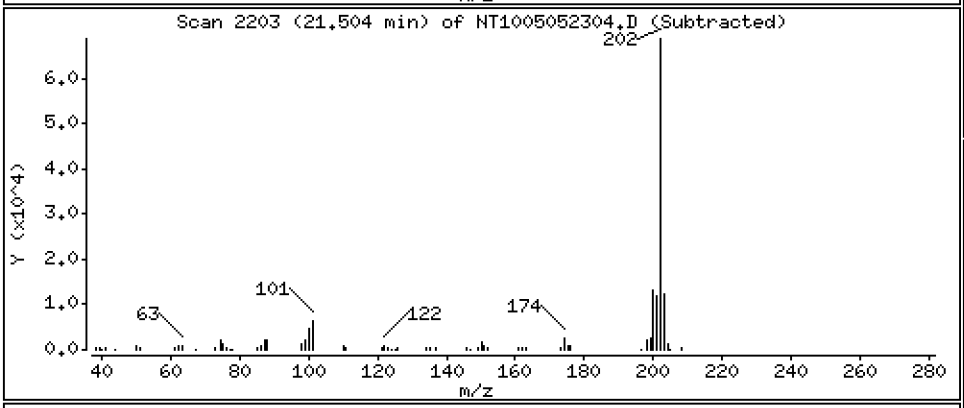
Column phase: ZB-5msi

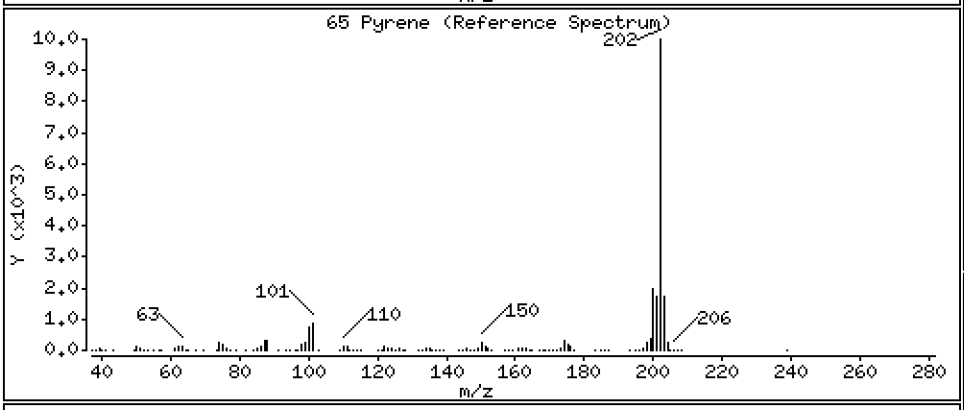
Column diameter: 0.25

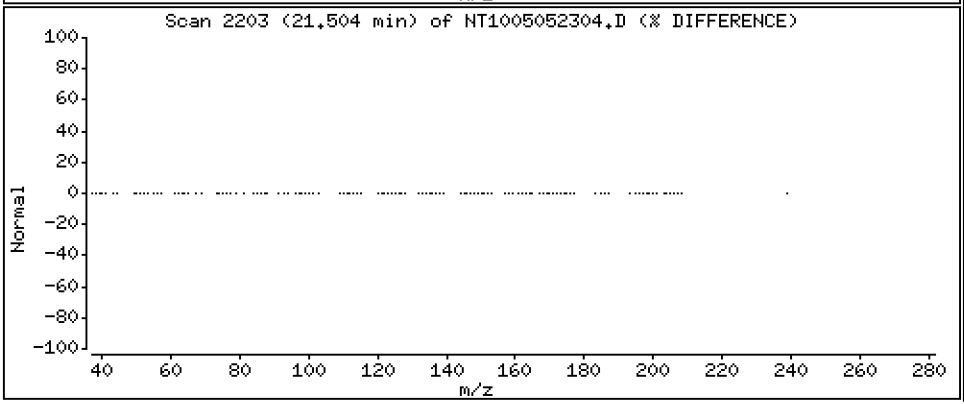
65 Pyrene

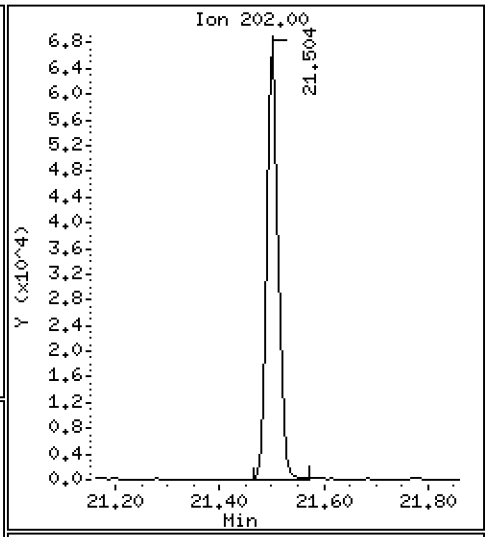
Concentration: 0.3974 ug/mL

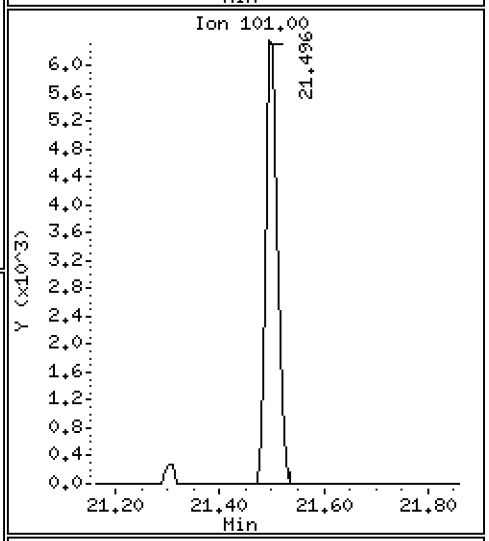


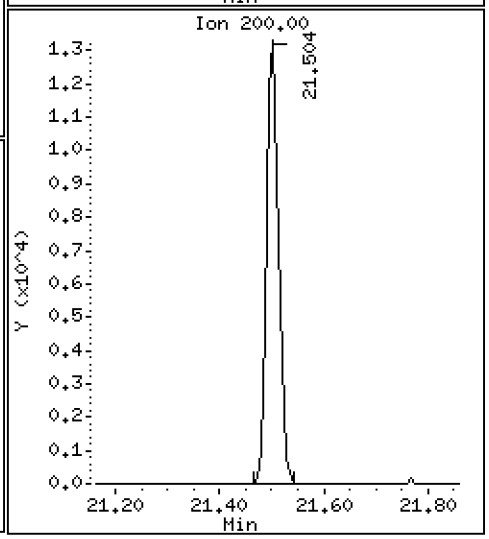












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

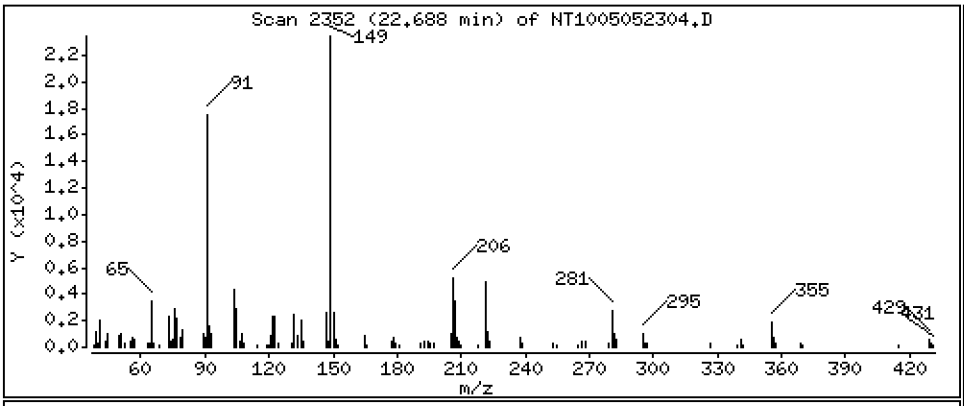
Operator: VTS

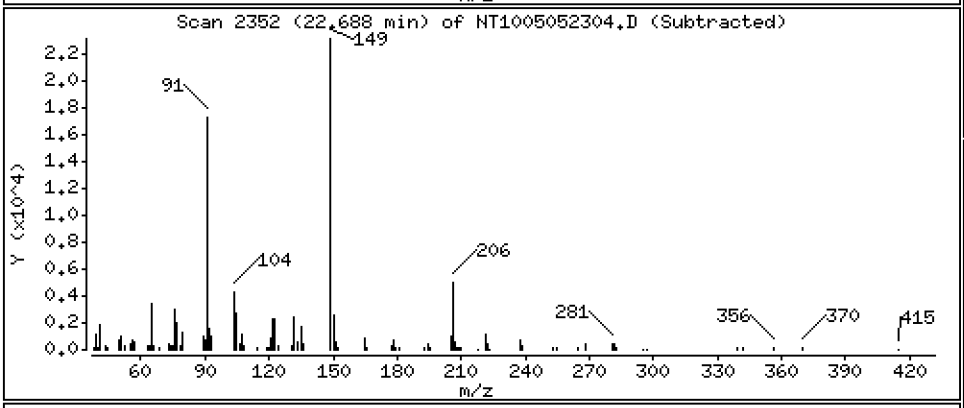
Column phase: ZB-5msi

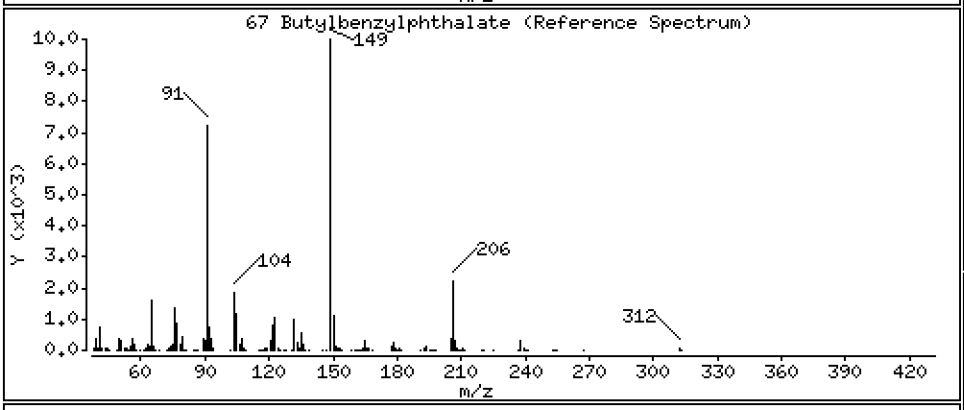
Column diameter: 0.25

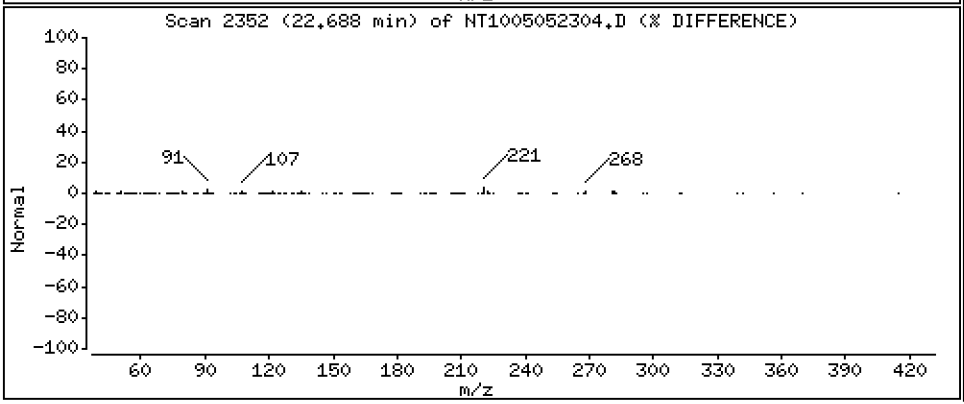
67 Butylbenzylphthalate

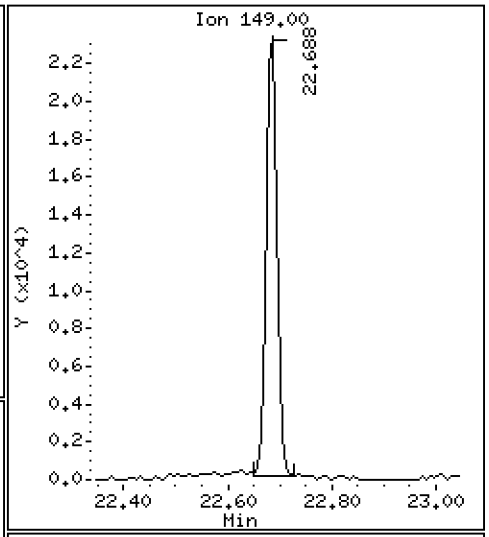
Concentration: 0.2605 ug/mL

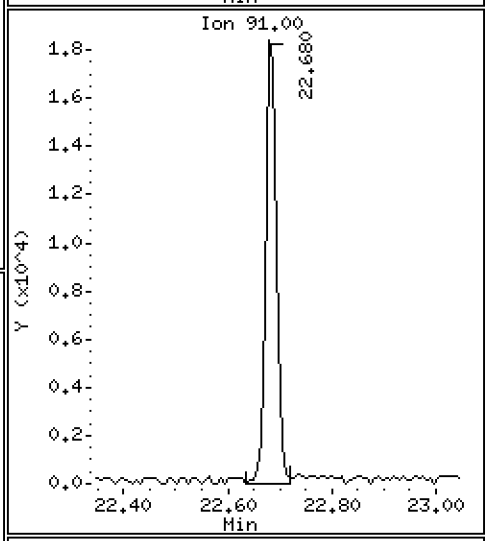


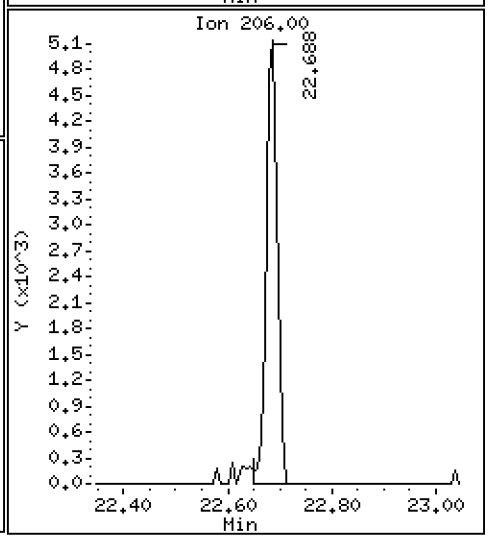












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

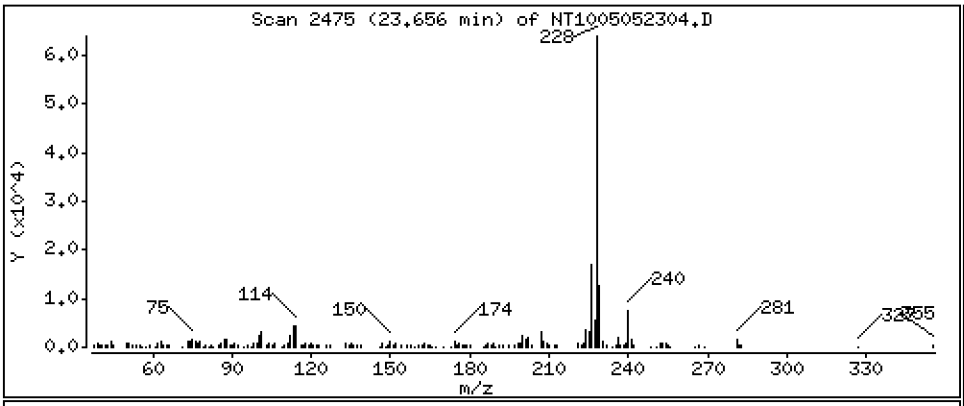
Operator: VTS

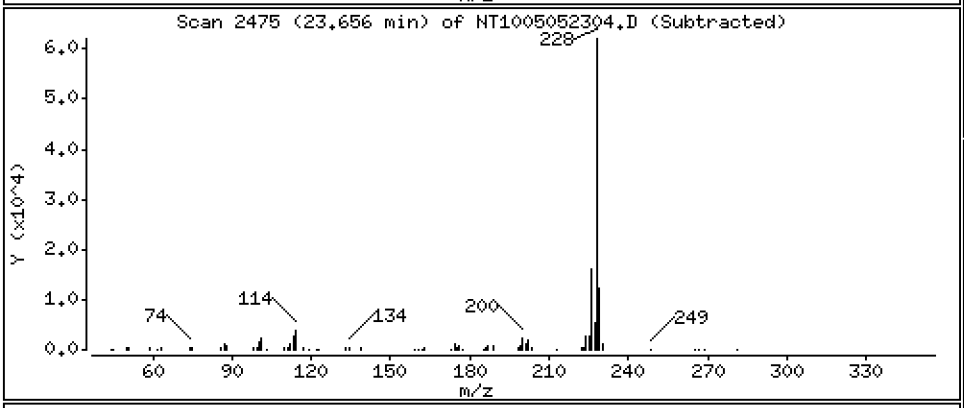
Column phase: ZB-5msi

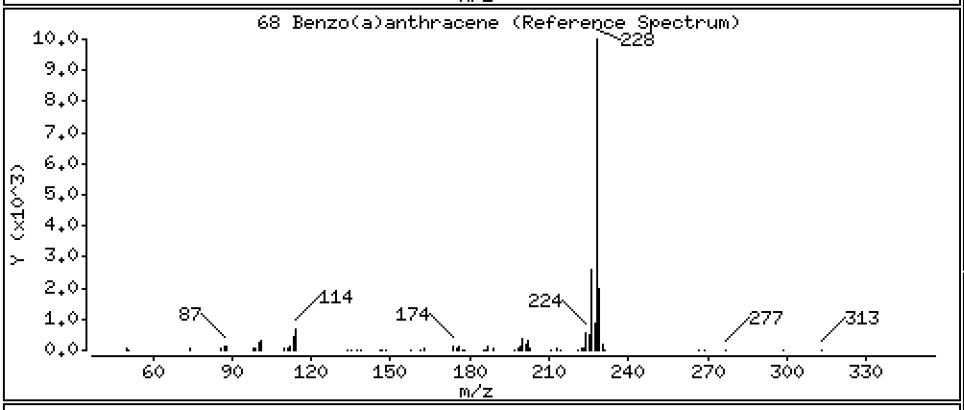
Column diameter: 0.25

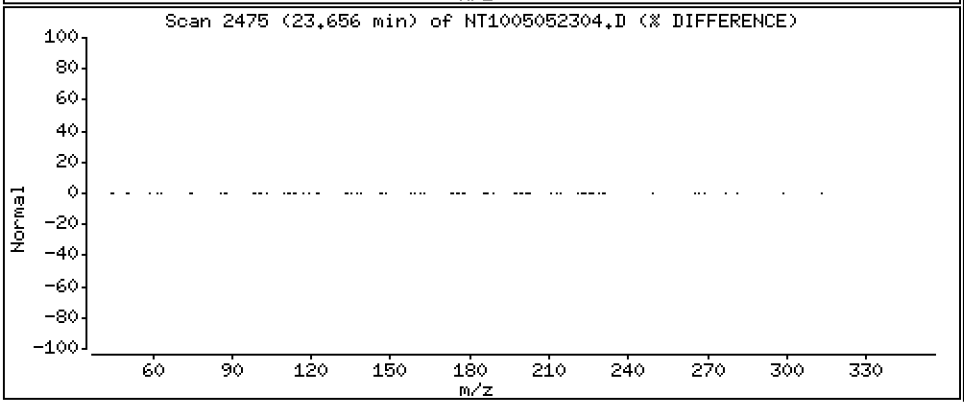
68 Benzo(a)anthracene

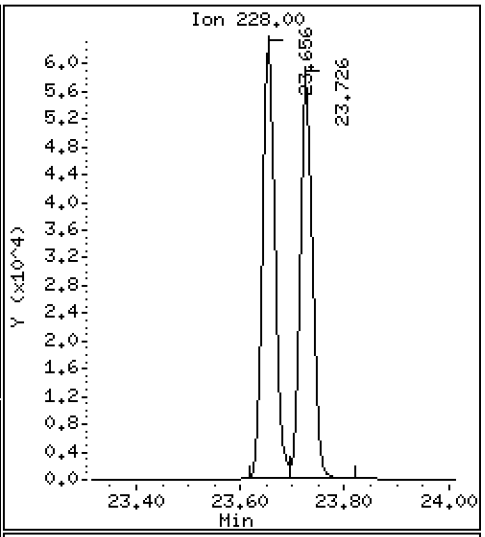
Concentration: 0.4338 ug/mL

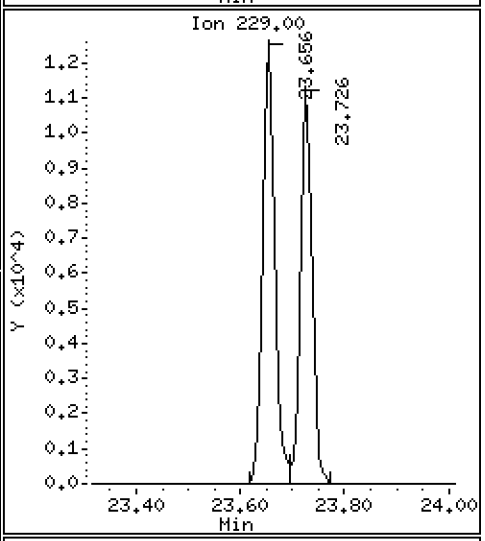


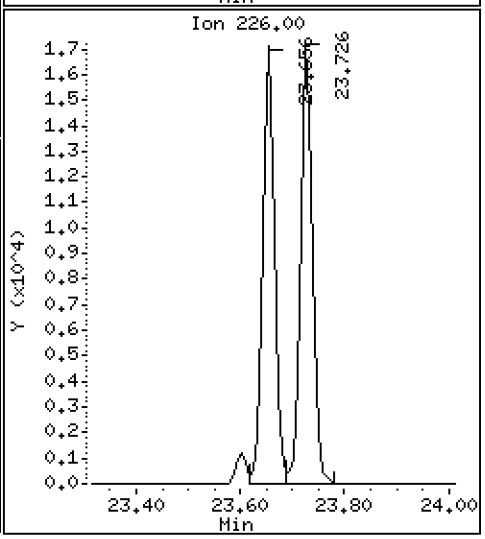












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

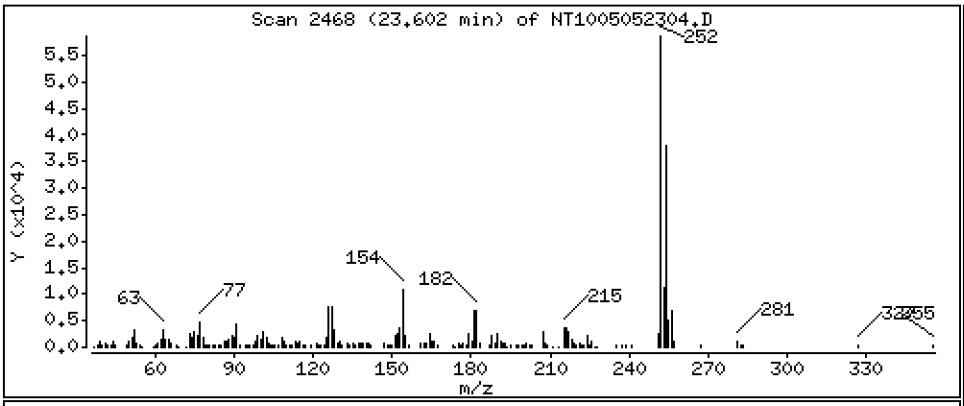
Operator: VTS

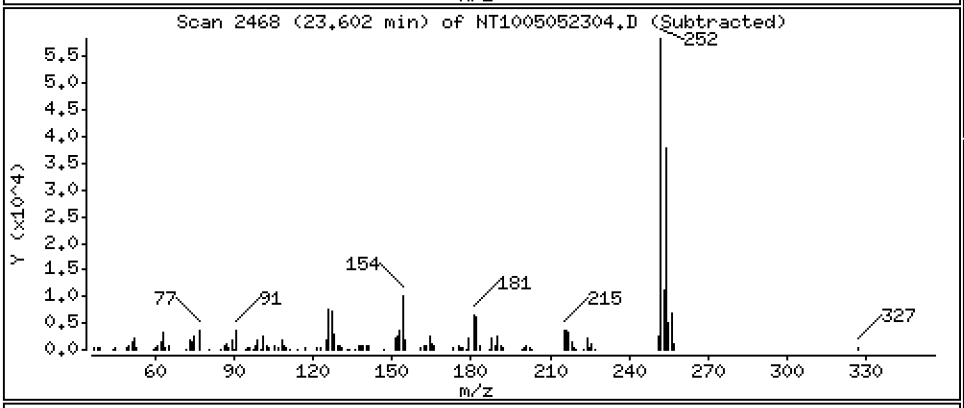
Column phase: ZB-5msi

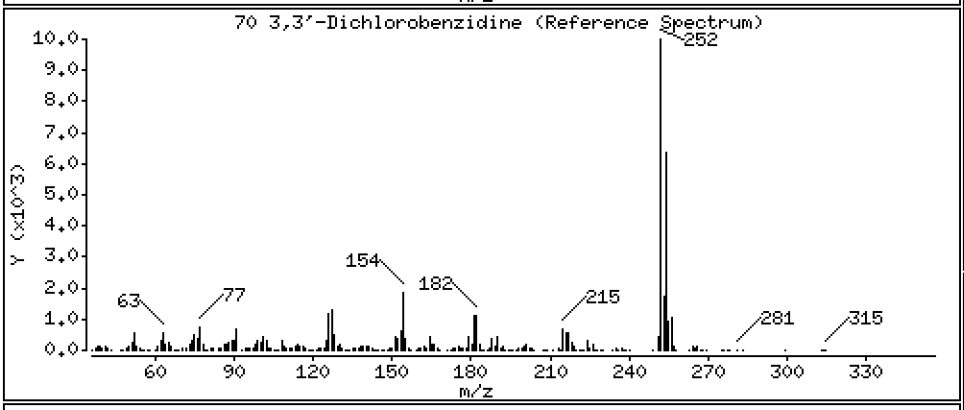
Column diameter: 0.25

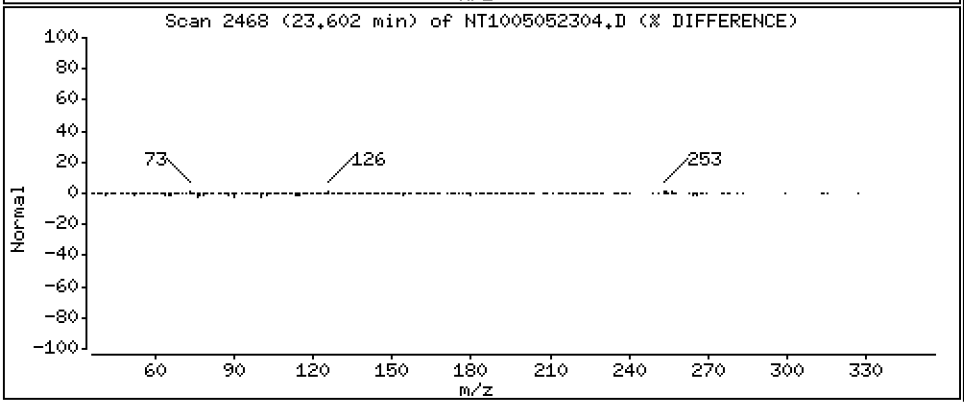
70 3,3'-Dichlorobenzidine

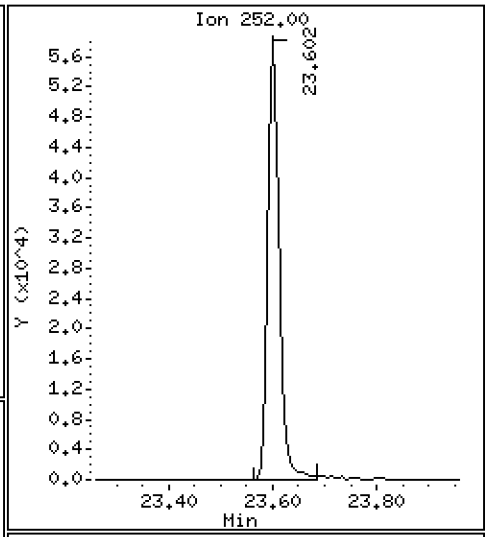
Concentration: 1.201 ug/mL

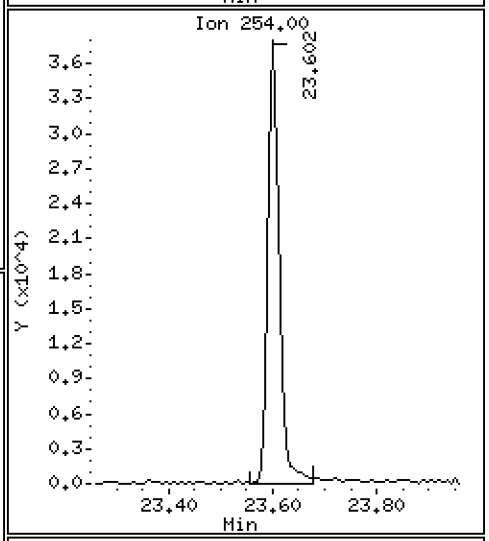


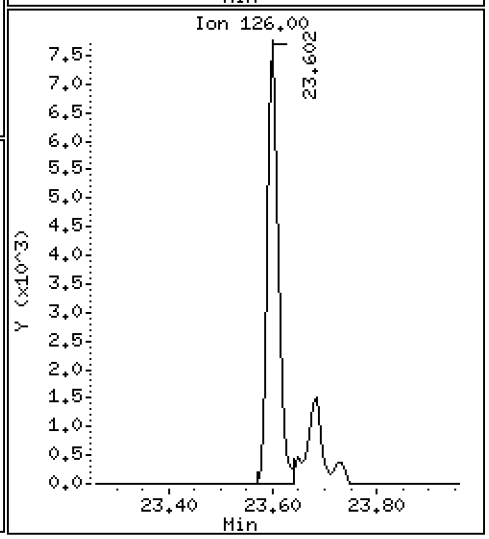












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

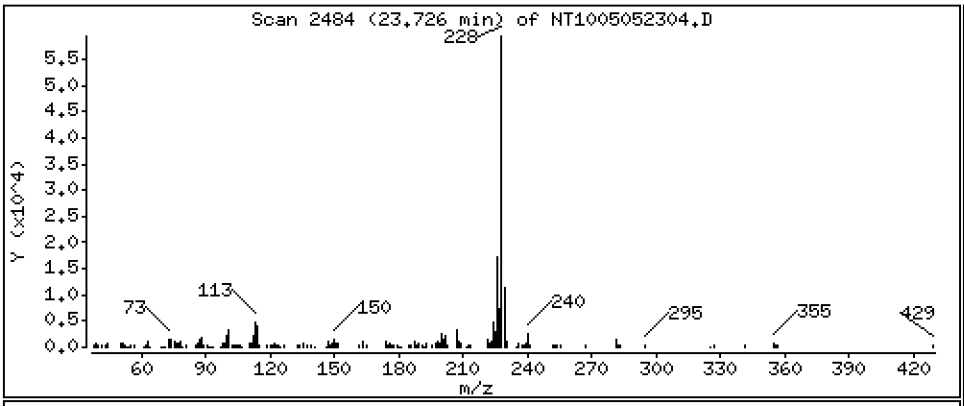
Operator: VTS

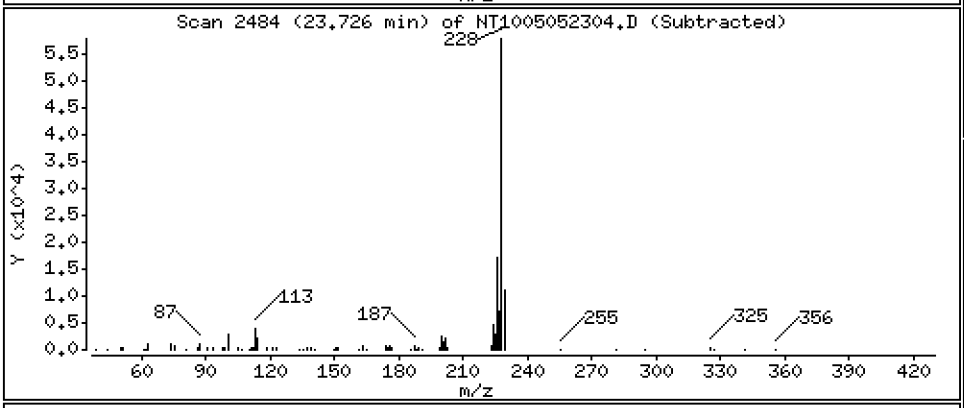
Column phase: ZB-5msi

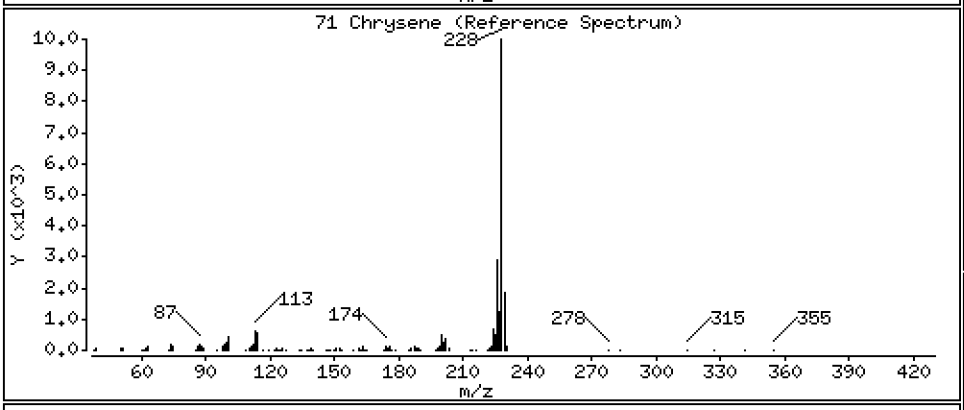
Column diameter: 0.25

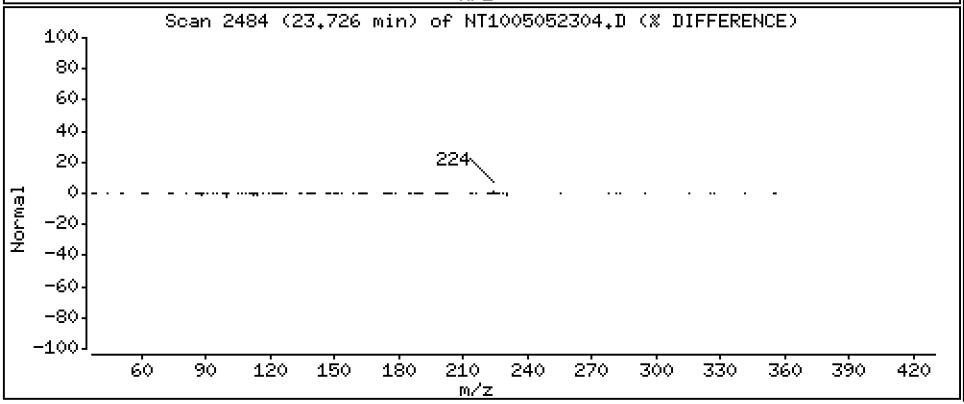
71 Chrysene

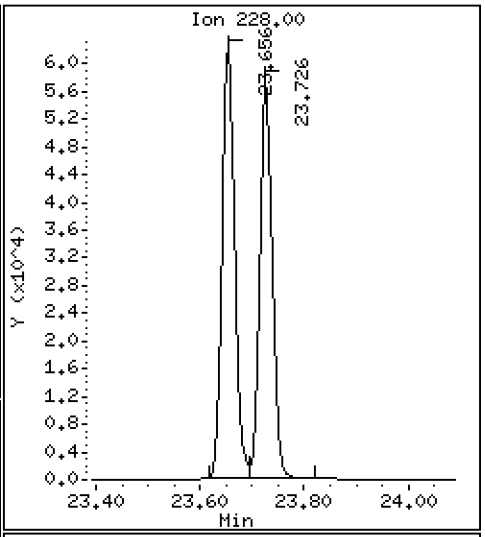
Concentration: 0.4506 ug/mL

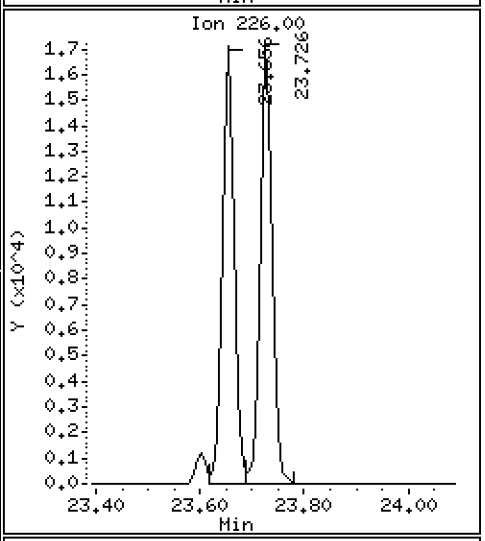


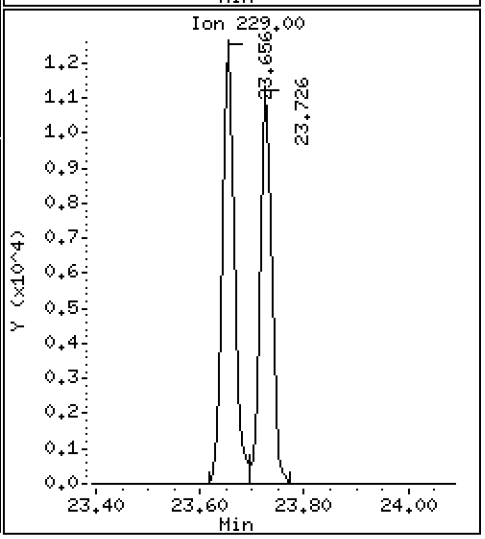












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

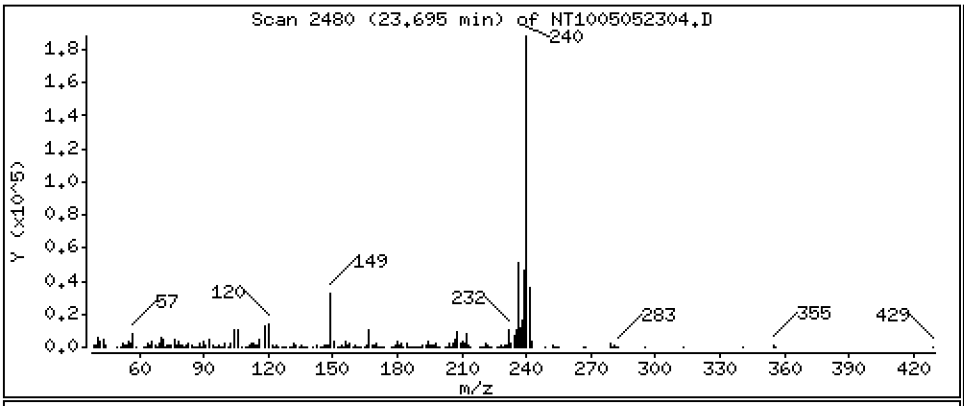
Operator: VTS

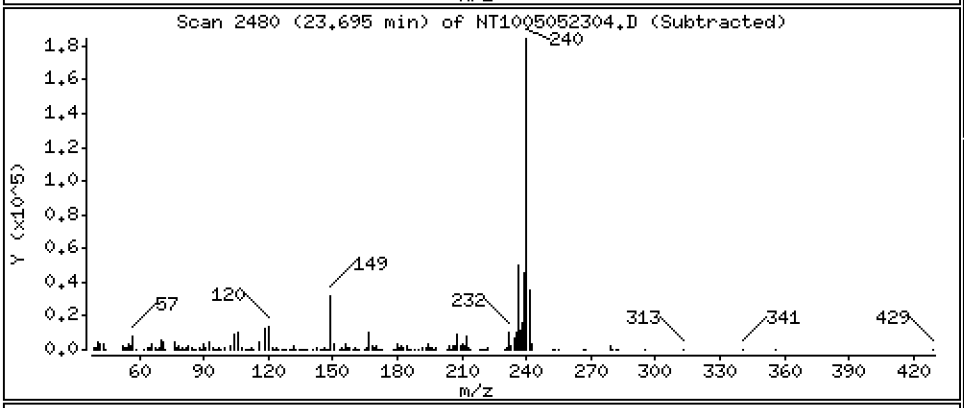
Column phase: ZB-5msi

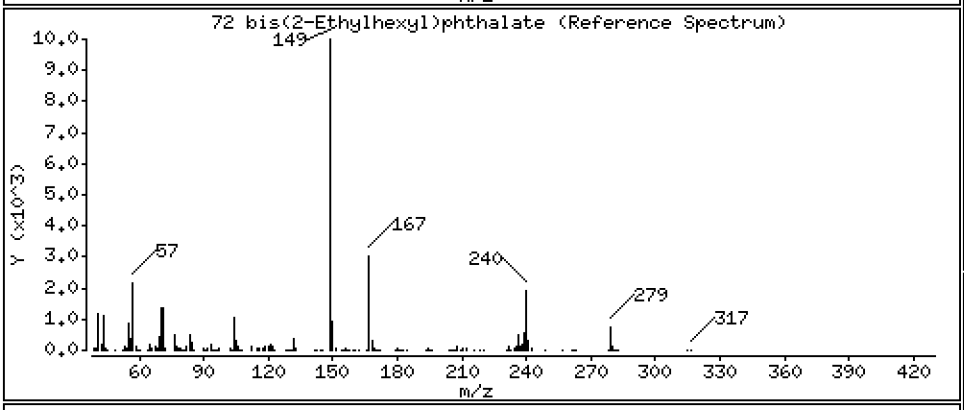
Column diameter: 0.25

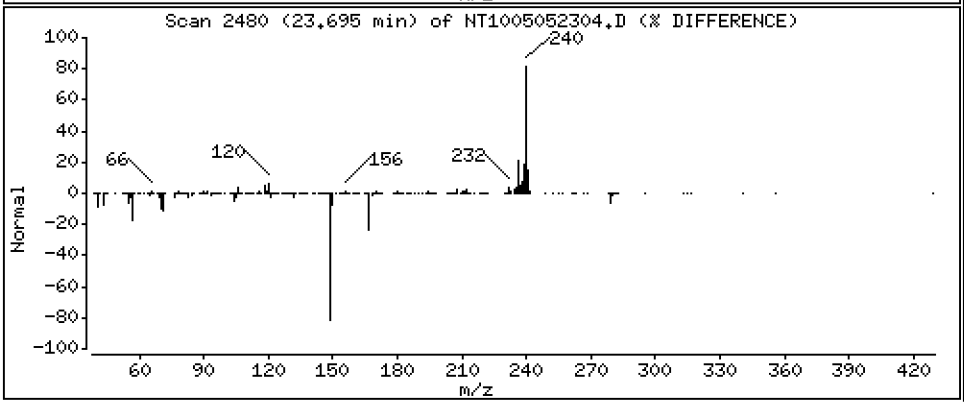
72 bis(2-Ethylhexyl)phthalate

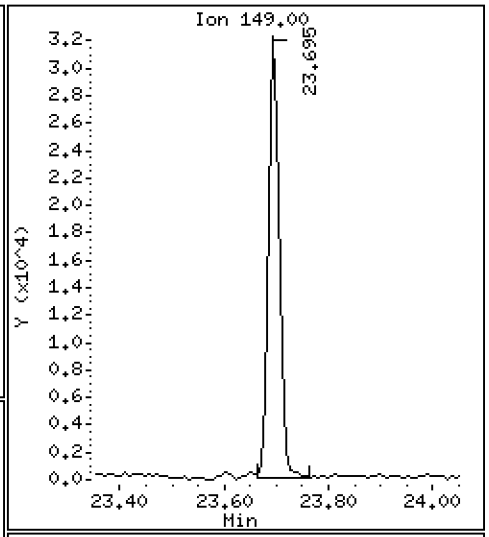
Concentration: 0.3823 ug/mL

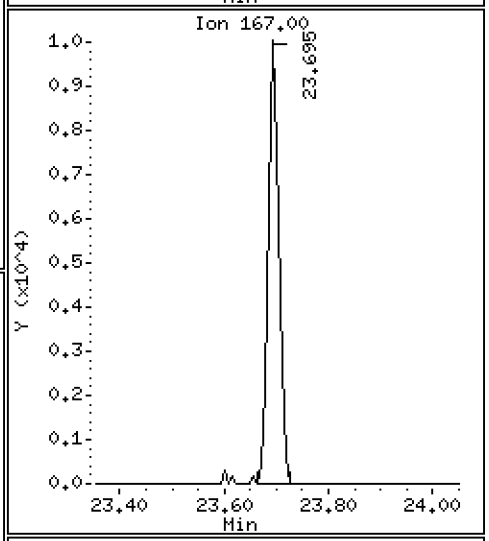


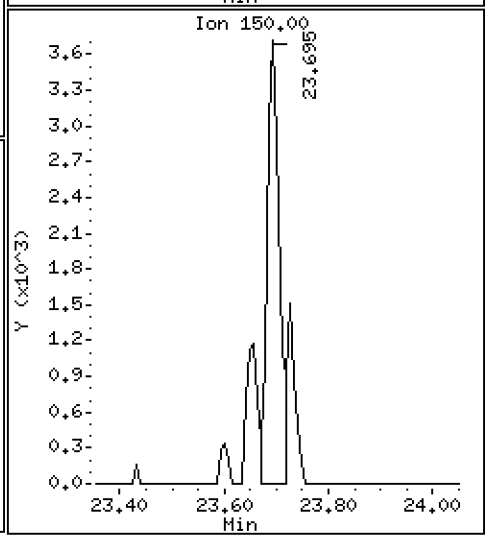












Date : 05-MAY-2023 12:43

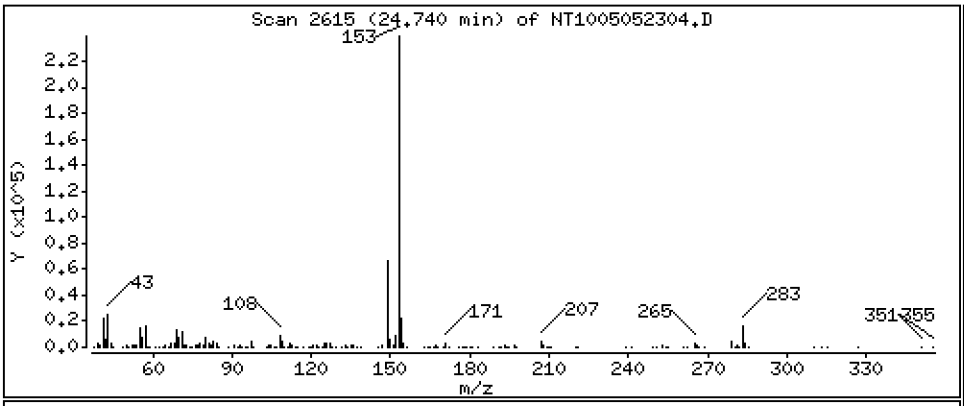
Client ID: Instrument: nt10.i

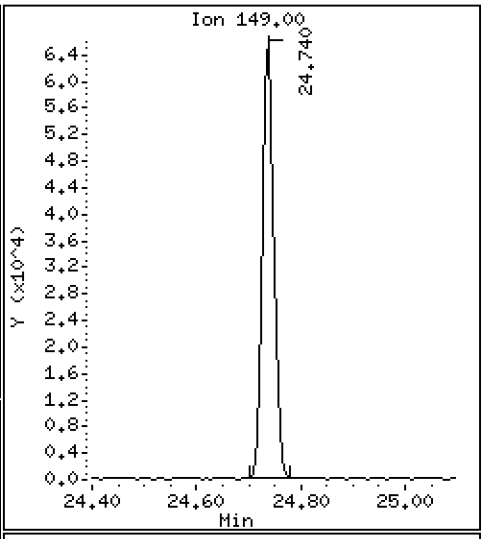
Sample Info: SLE0101-LCV1

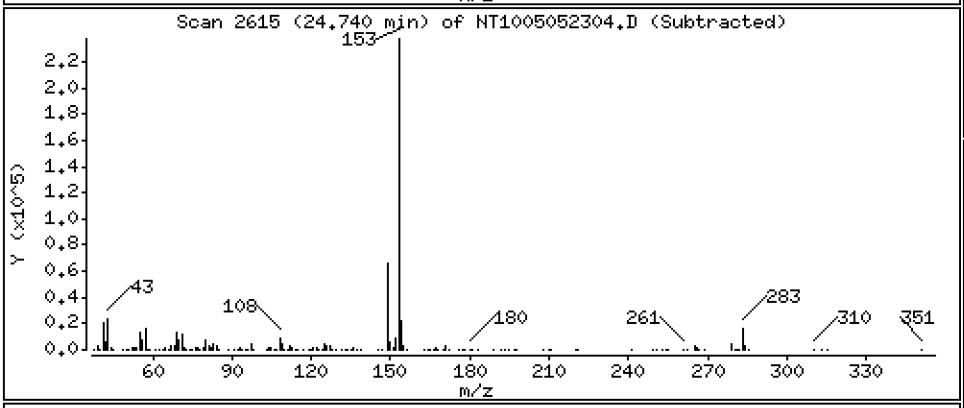
Operator: VTS

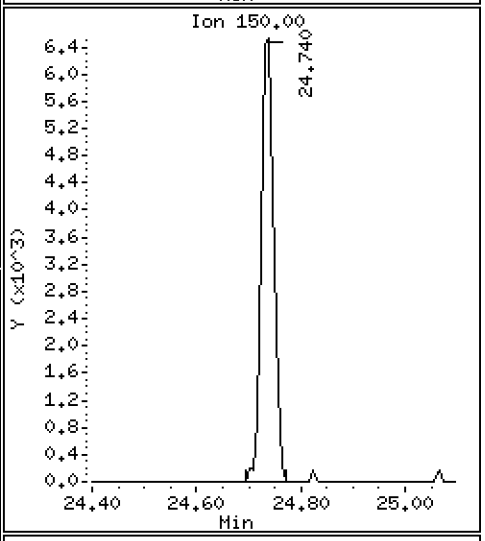
Column phase: ZB-5msi Column diameter: 0.25

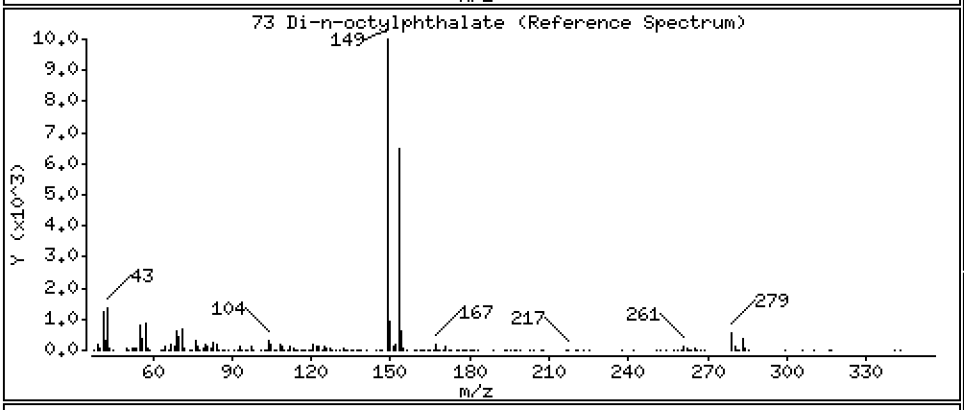
73 Di-n-octylphthalate Concentration: 0.4660 ug/mL

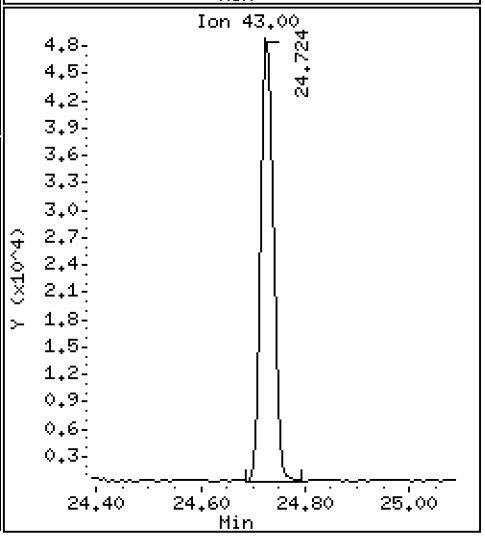


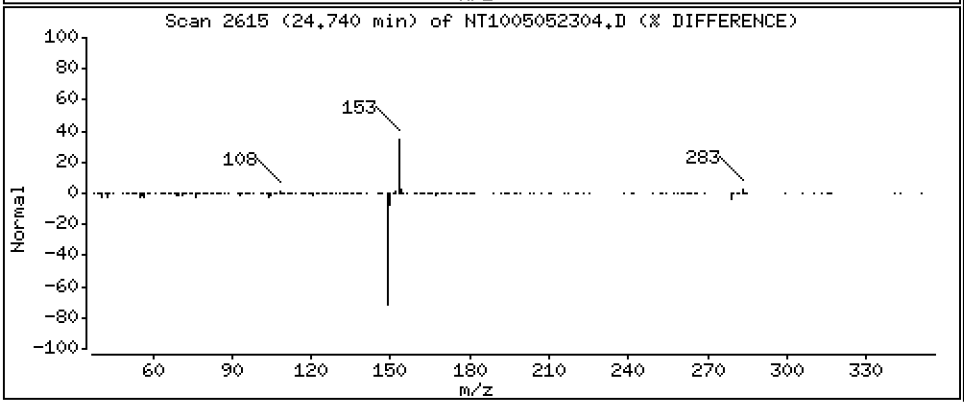












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

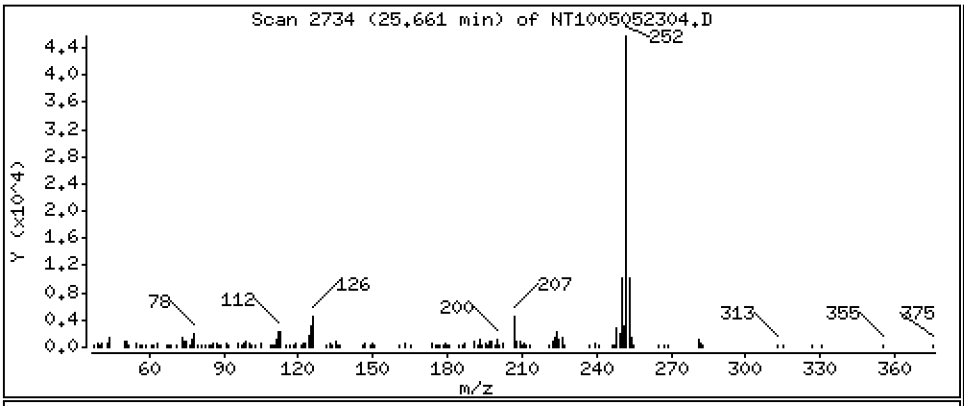
Operator: VTS

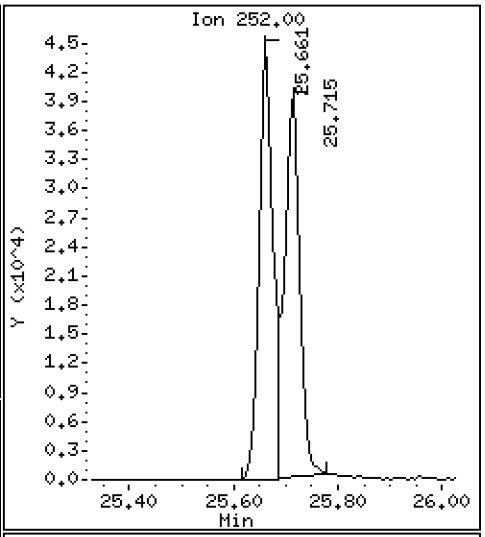
Column phase: ZB-5msi

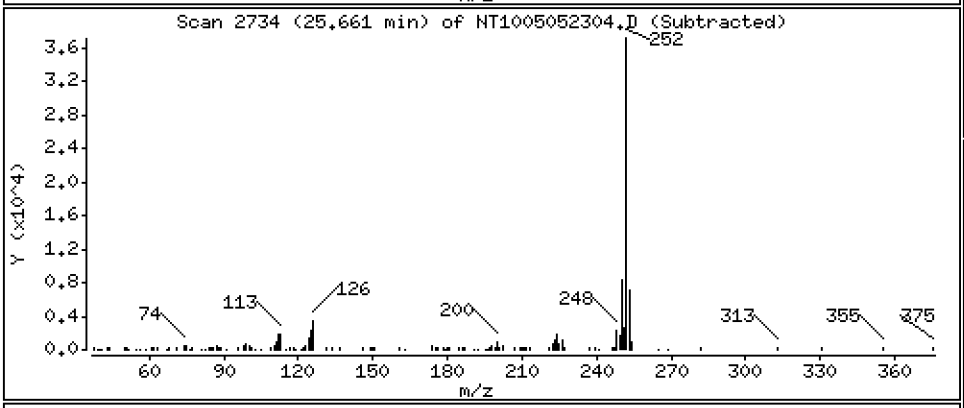
Column diameter: 0.25

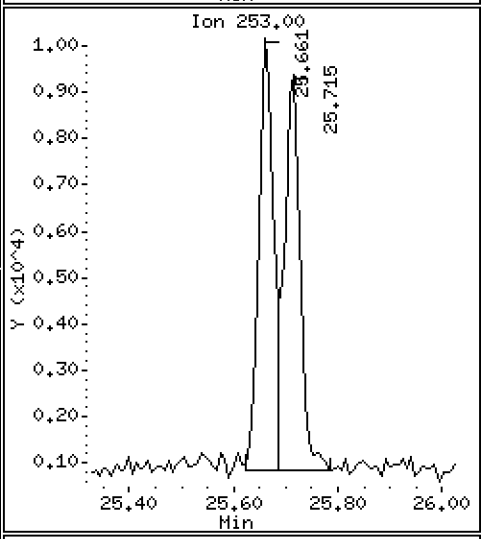
74 Benzo(b)fluoranthene

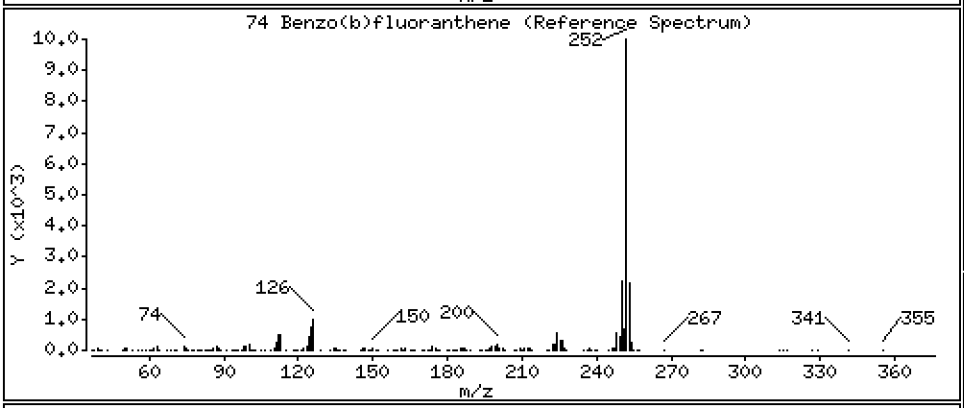
Concentration: 0.3897 ug/mL

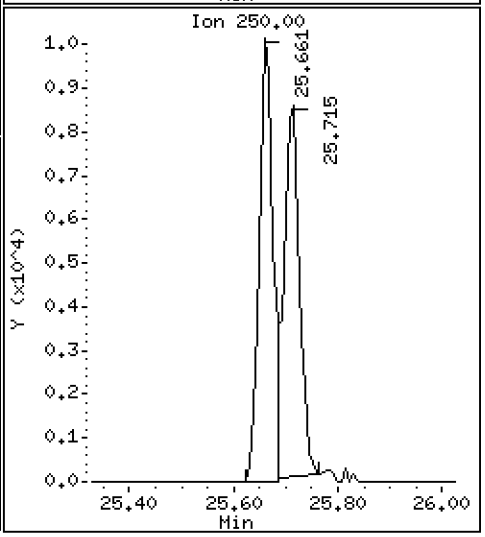


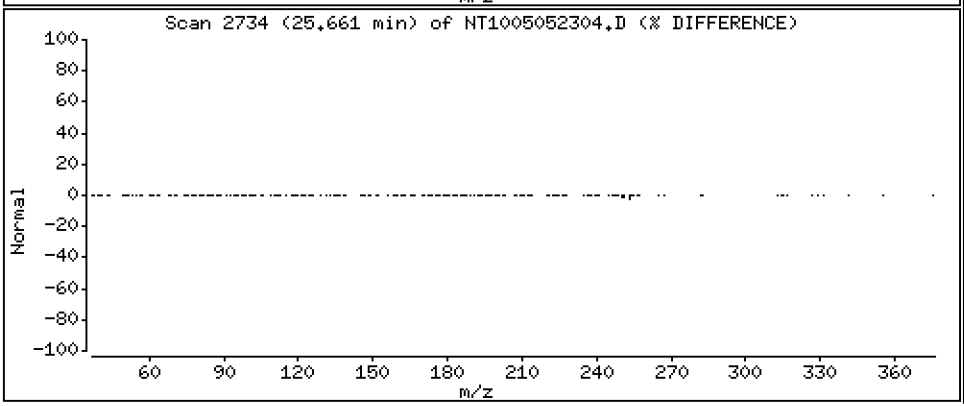












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

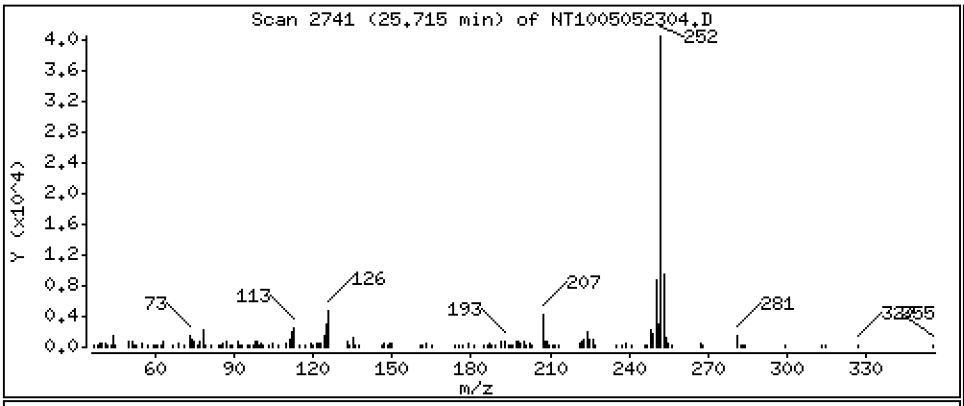
Operator: VTS

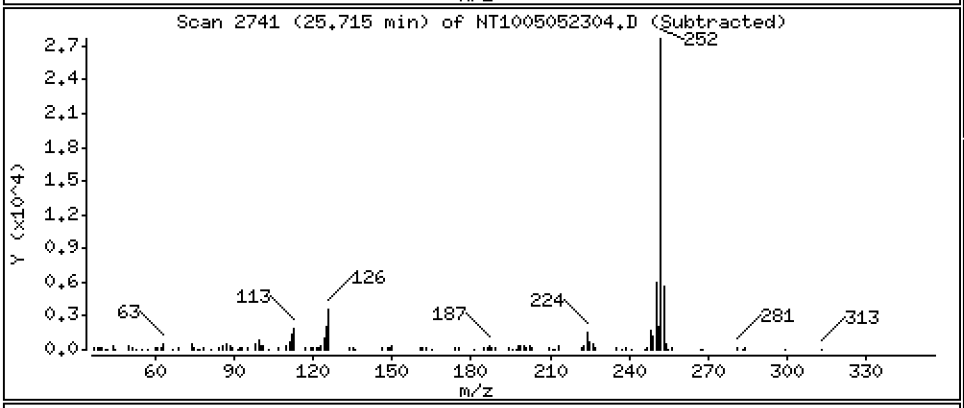
Column phase: ZB-5msi

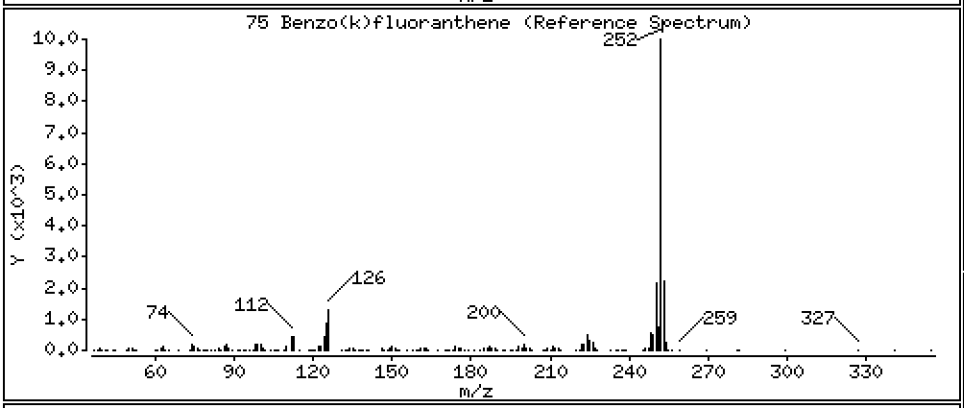
Column diameter: 0.25

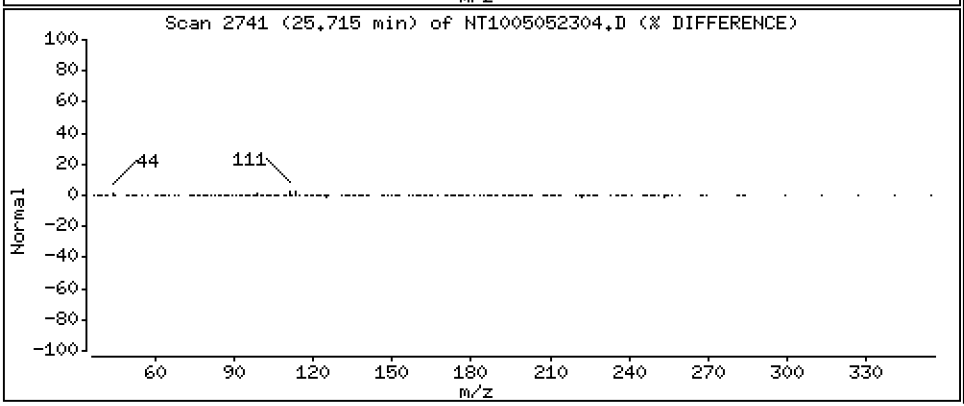
75 Benzo(k)fluoranthene

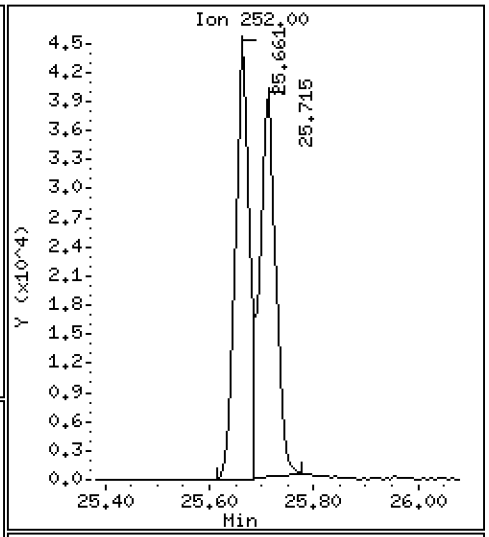
Concentration: 0.4113 ug/mL

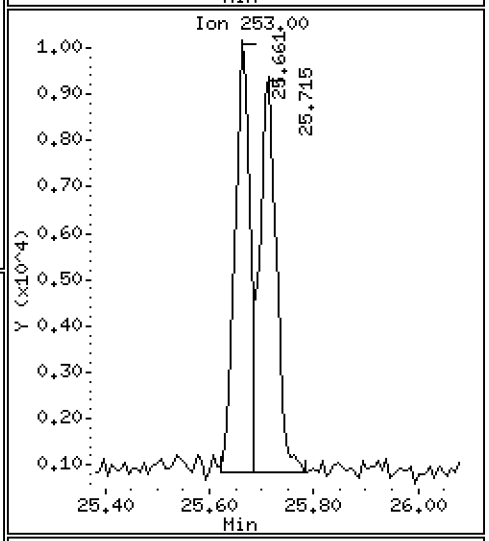


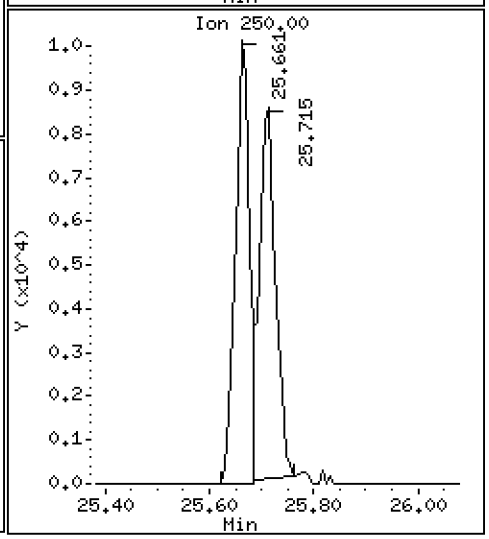












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

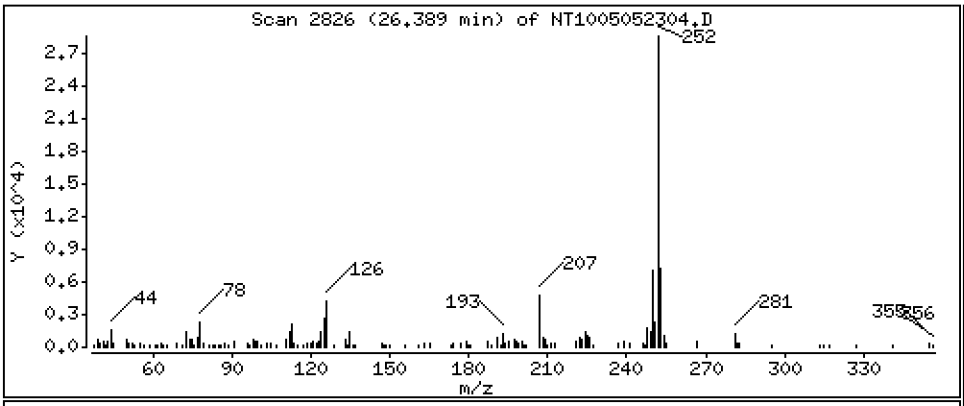
Operator: VTS

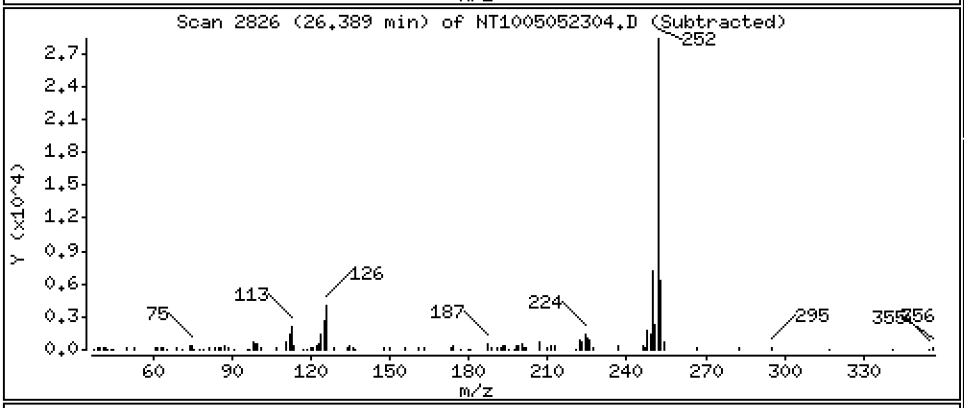
Column phase: ZB-5msi

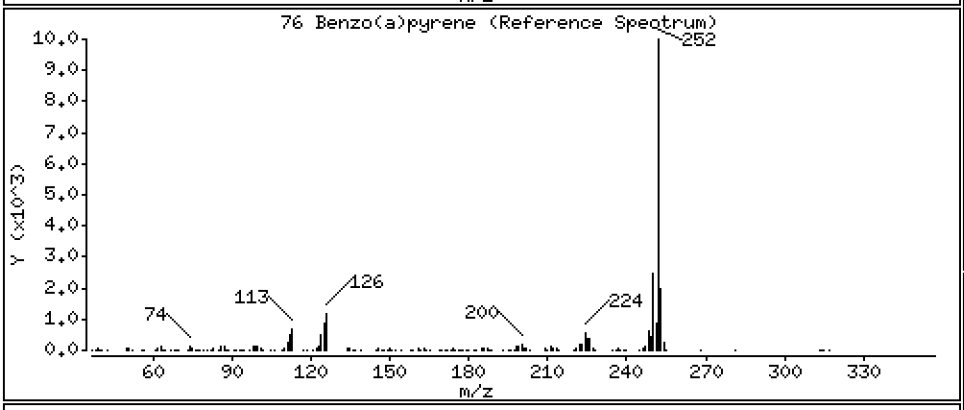
Column diameter: 0.25

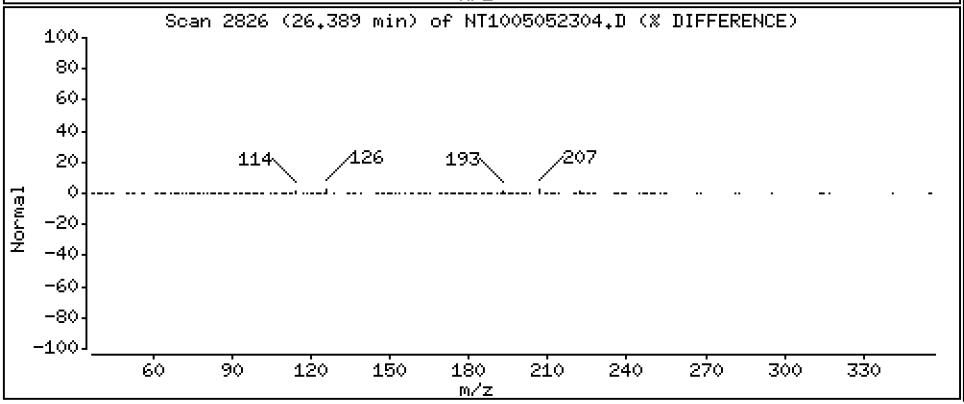
76 Benzo(a)pyrene

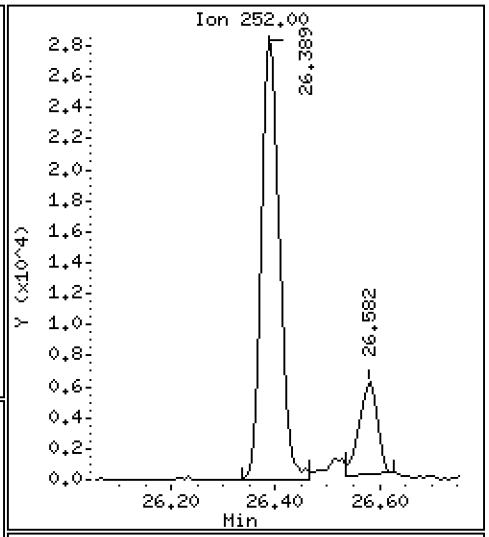
Concentration: 0.3831 ug/mL

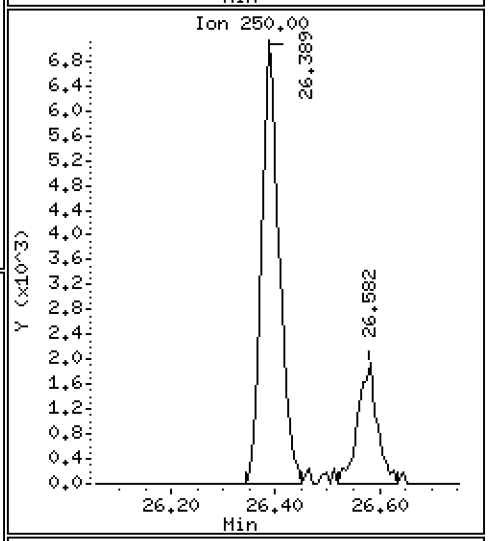


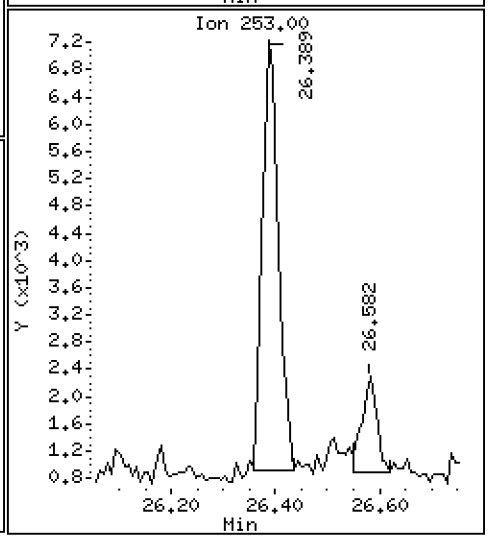












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

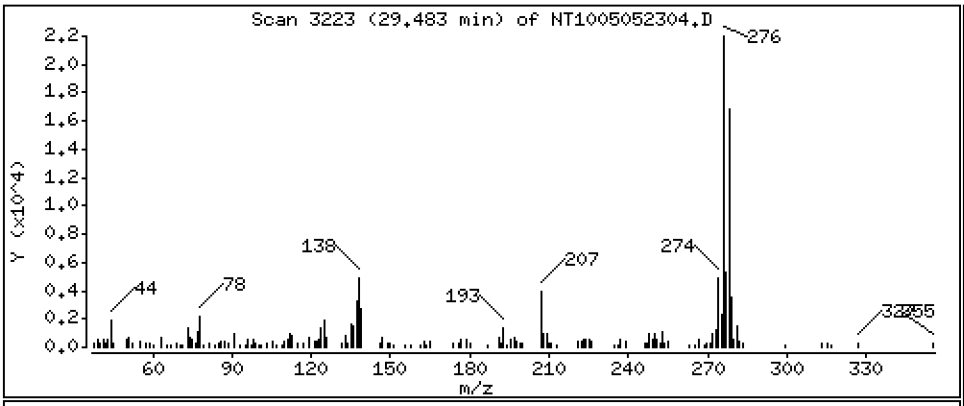
Operator: VTS

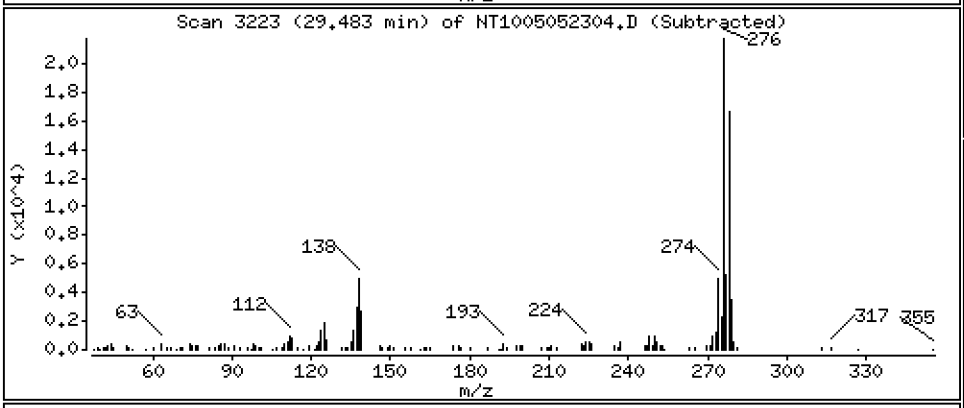
Column phase: ZB-5msi

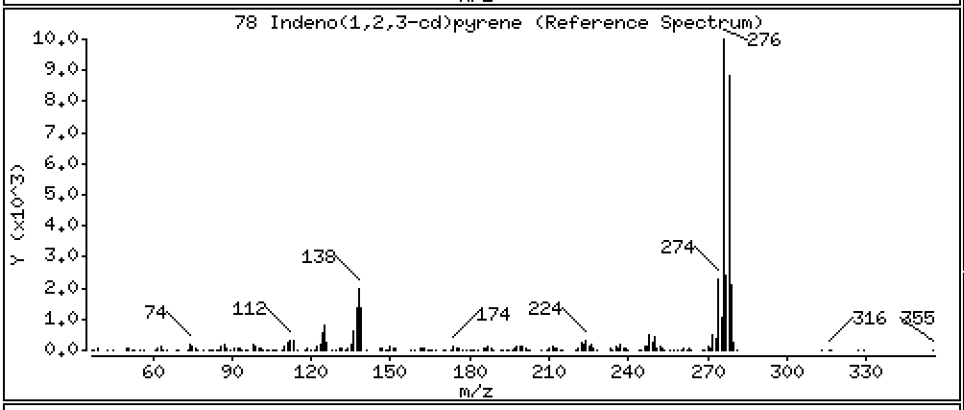
Column diameter: 0.25

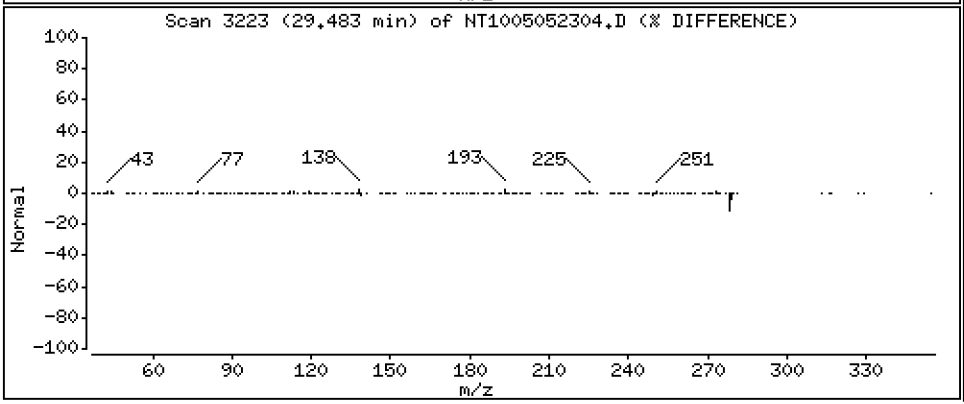
78 Indeno(1,2,3-cd)pyrene

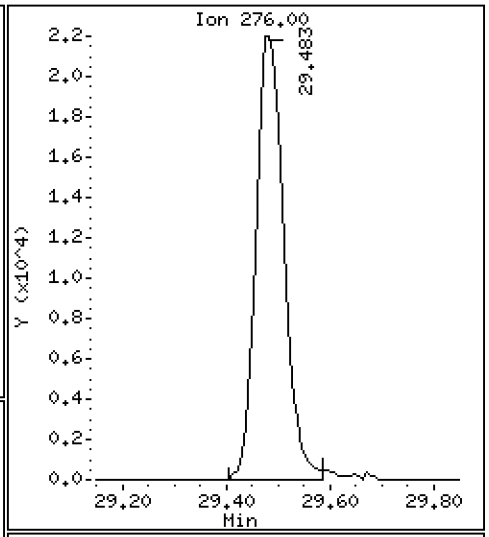
Concentration: 0.3805 ug/mL

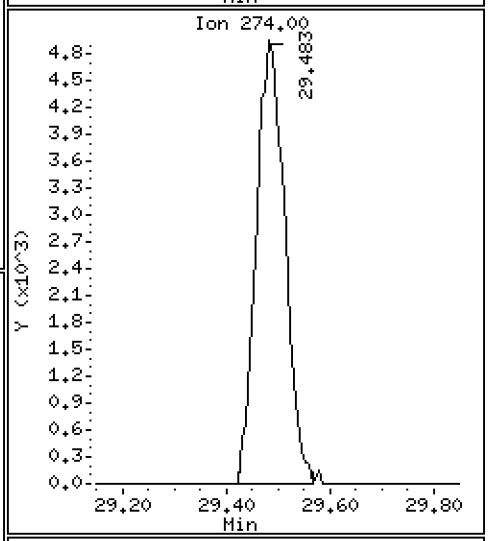


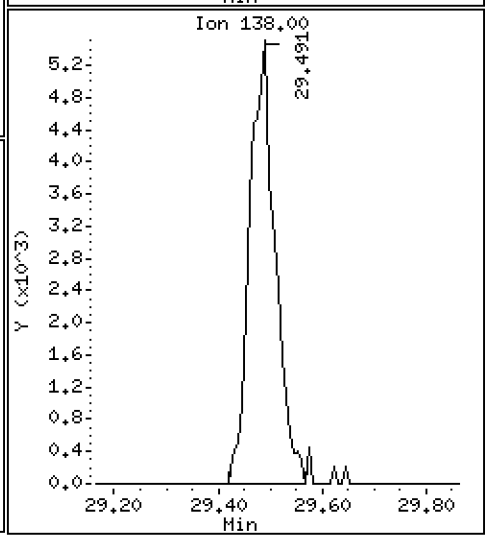












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

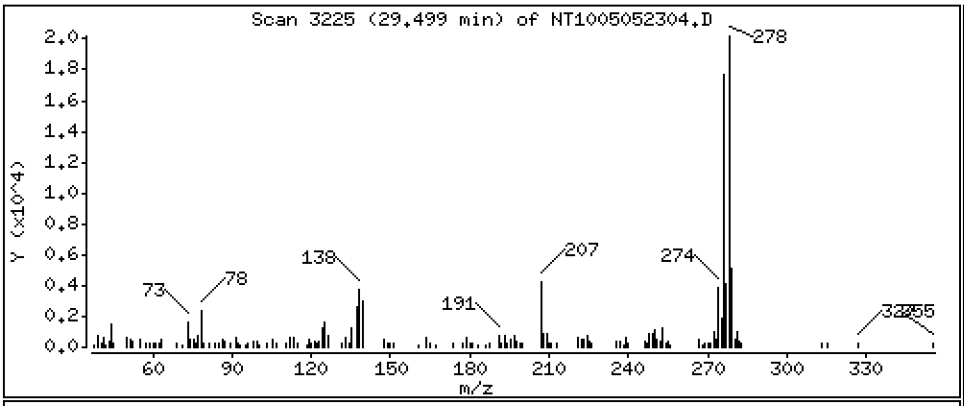
Operator: VTS

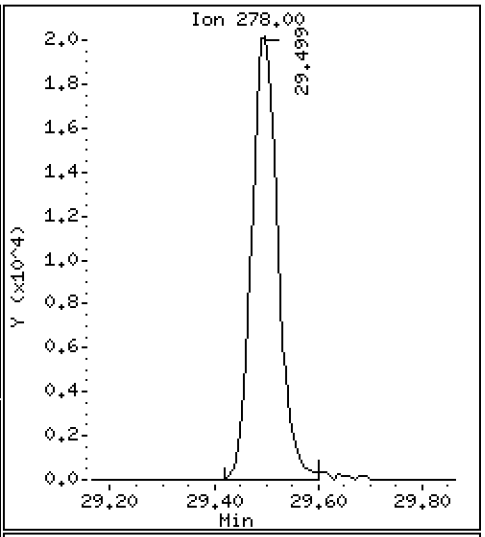
Column phase: ZB-5msi

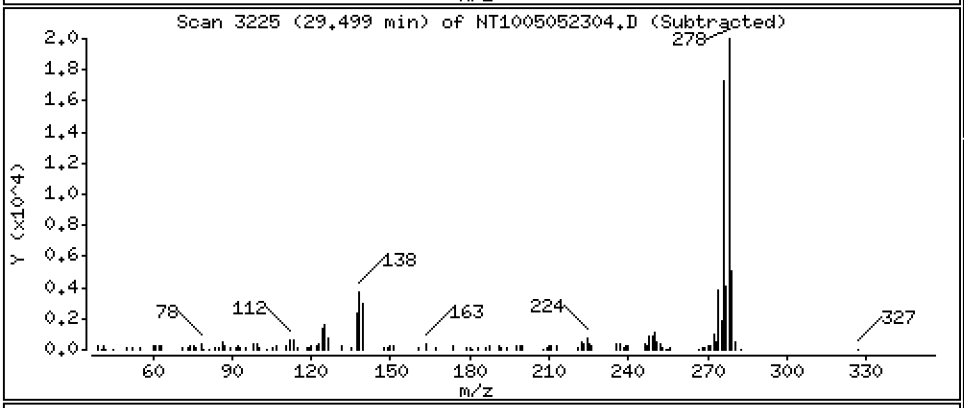
Column diameter: 0.25

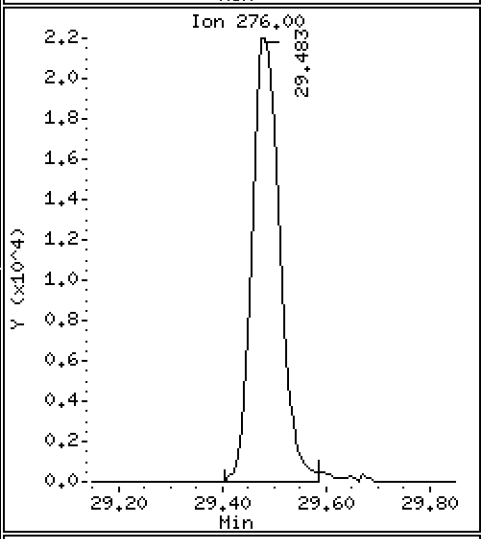
79 Dibenzo(a,h)anthracene

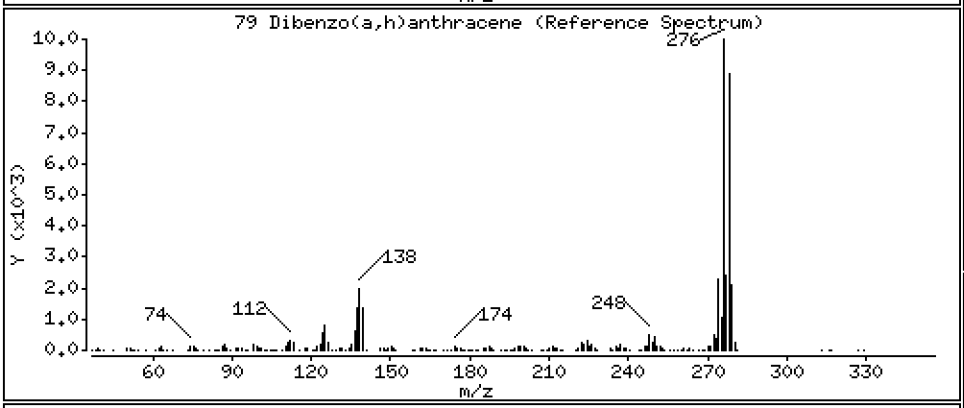
Concentration: 0.3934 ug/mL

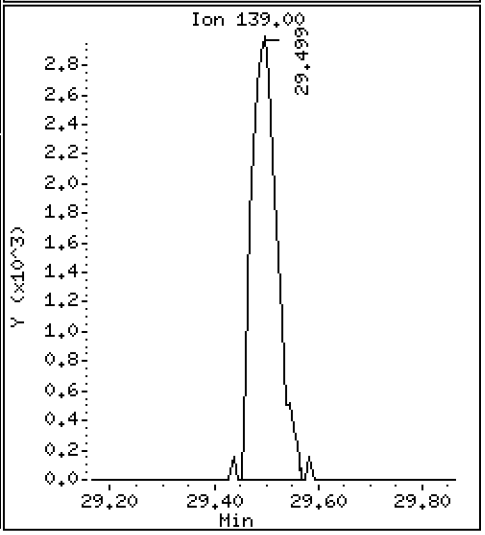


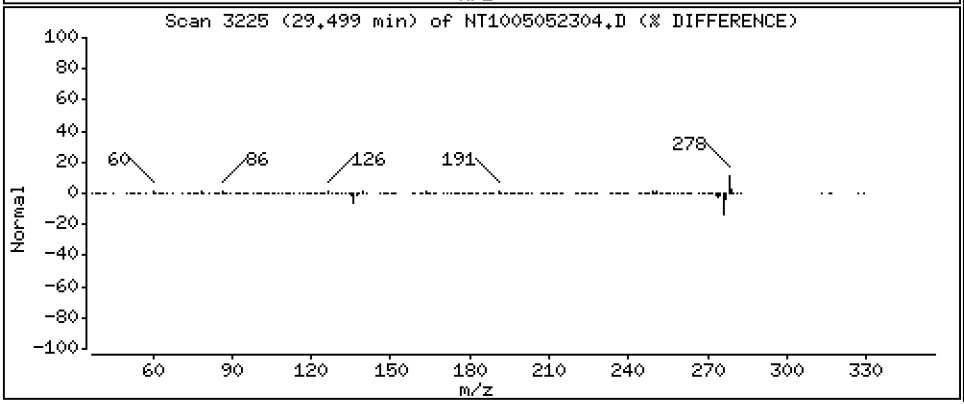












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

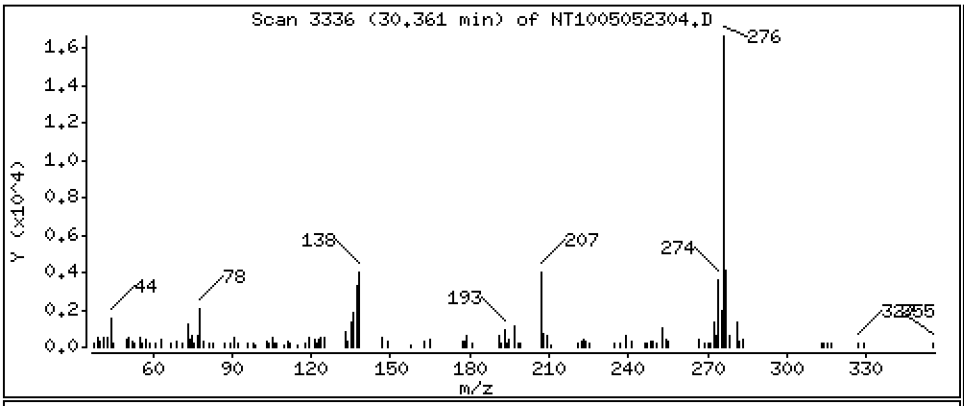
Operator: VTS

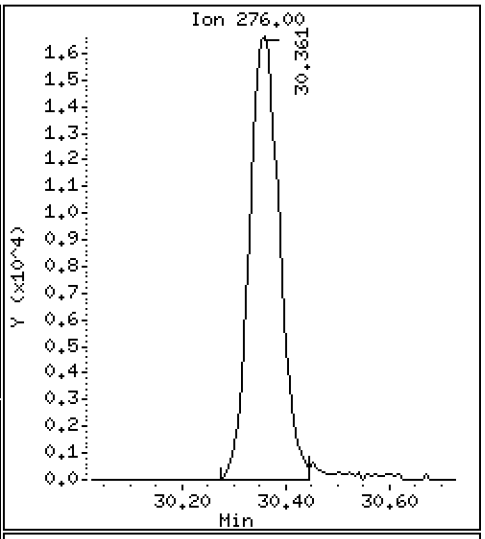
Column phase: ZB-5msi

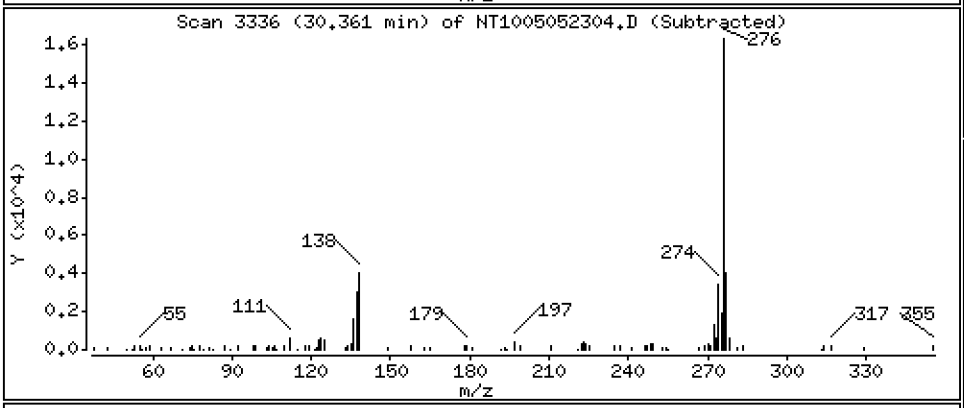
Column diameter: 0.25

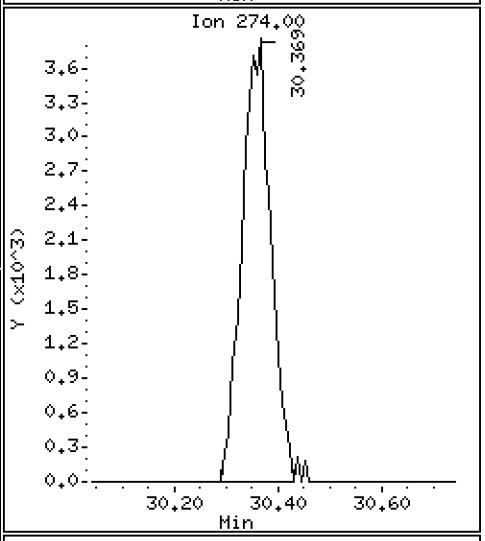
80 Benzo(g,h,i)perylene

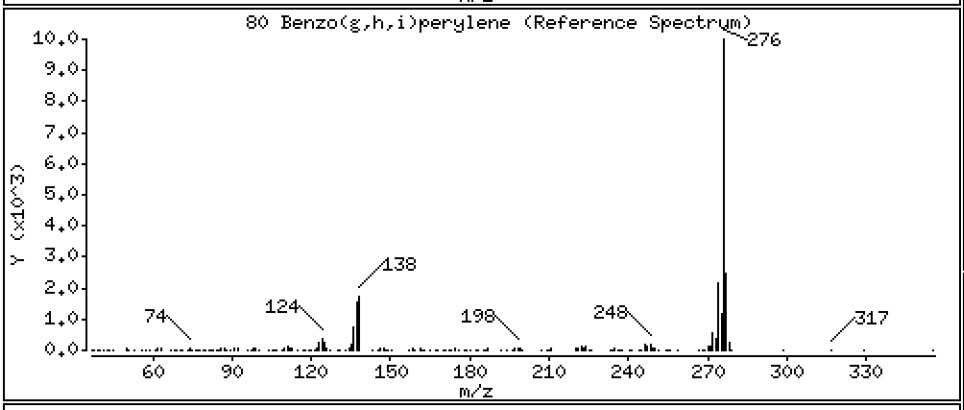
Concentration: 0.3948 ug/mL

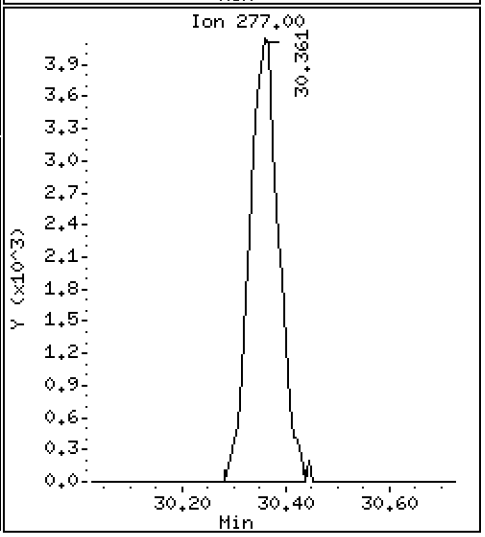


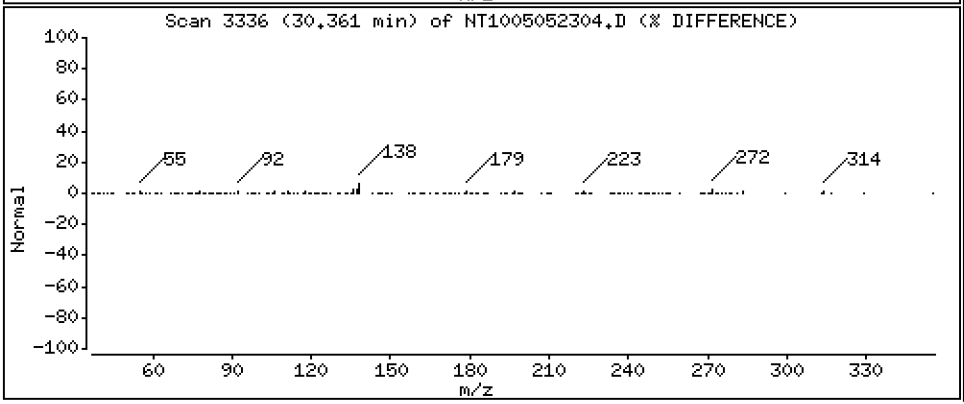












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

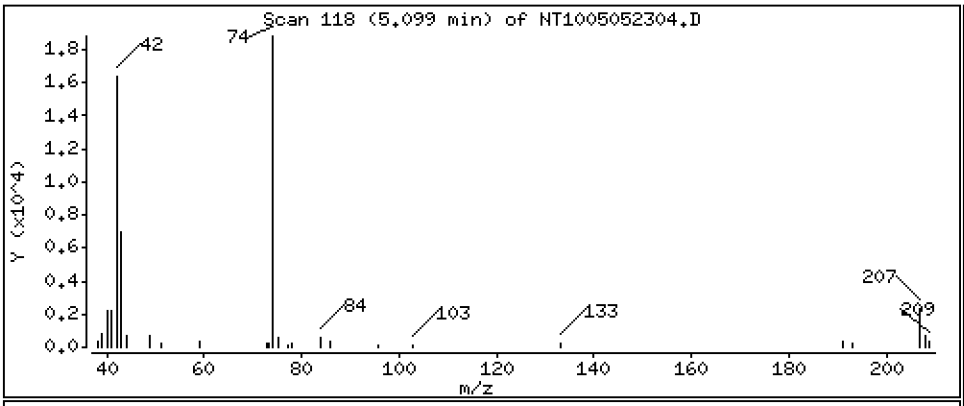
Operator: VTS

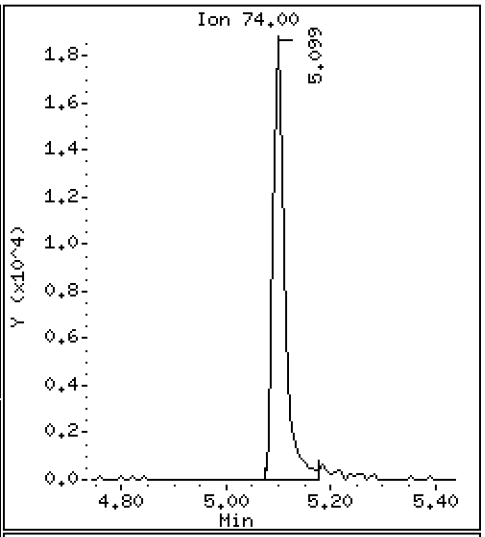
Column phase: ZB-5msi

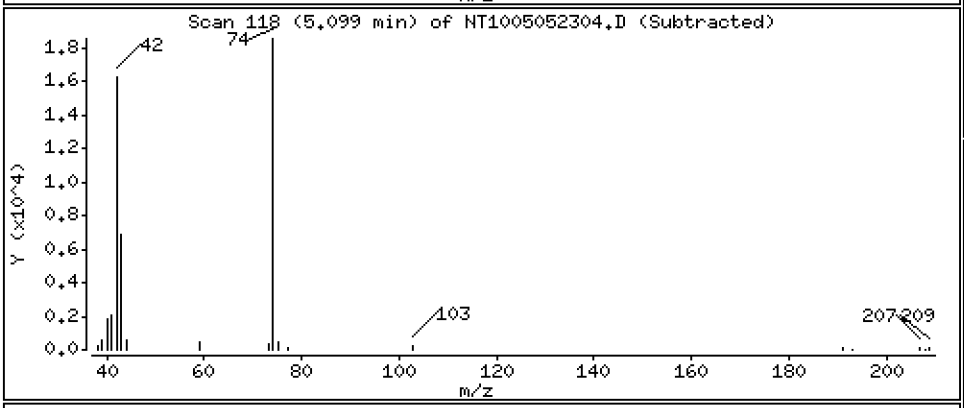
Column diameter: 0.25

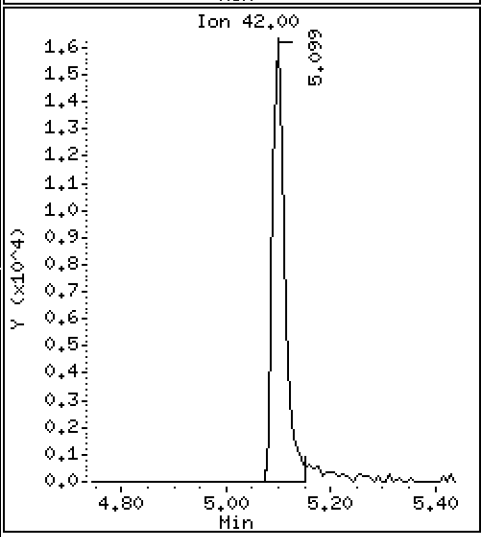
90 N-Nitrosodimethylamine

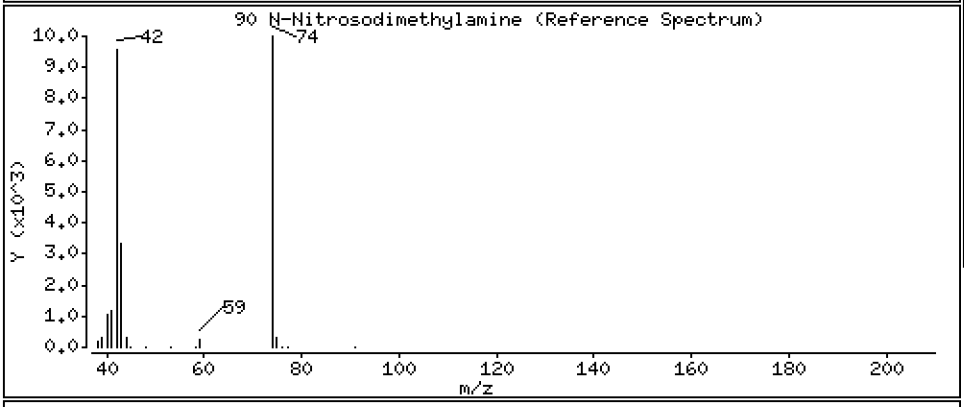
Concentration: 0.8374 ug/mL

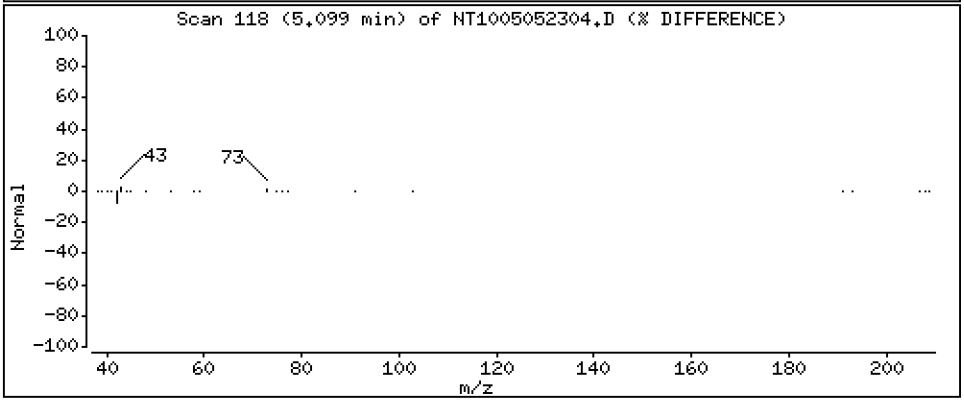












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

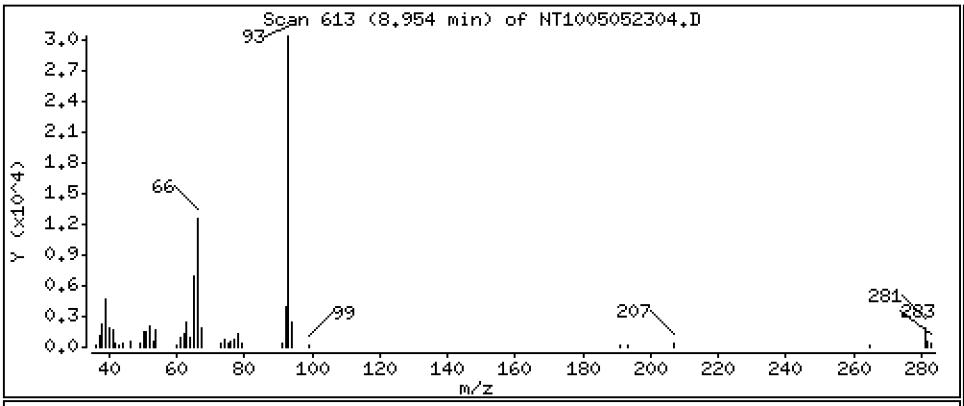
Operator: VTS

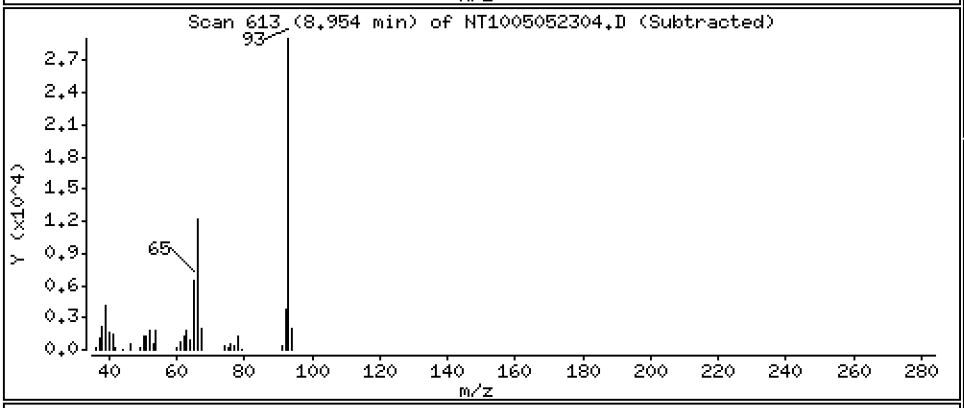
Column phase: ZB-5msi

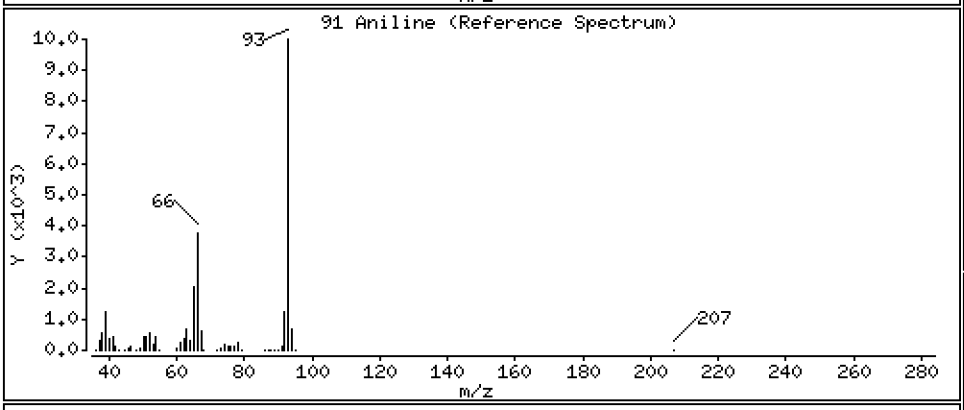
Column diameter: 0.25

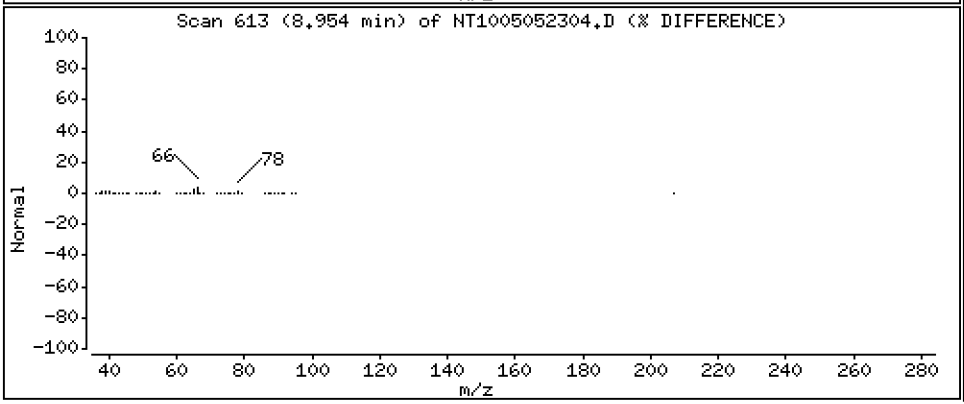
91 Aniline

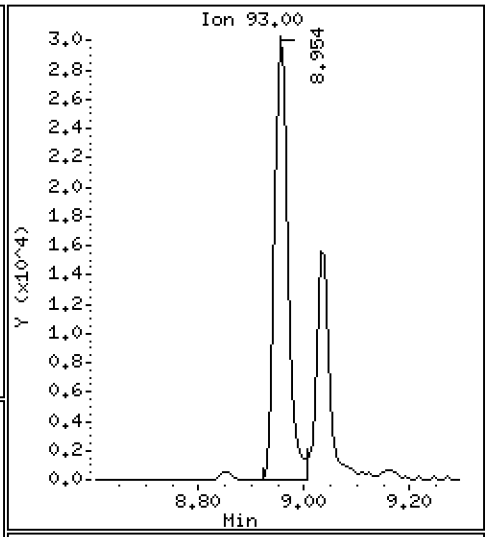
Concentration: 0.8020 ug/mL

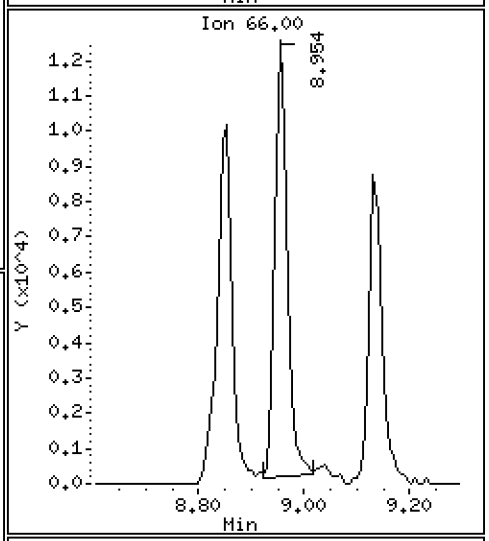


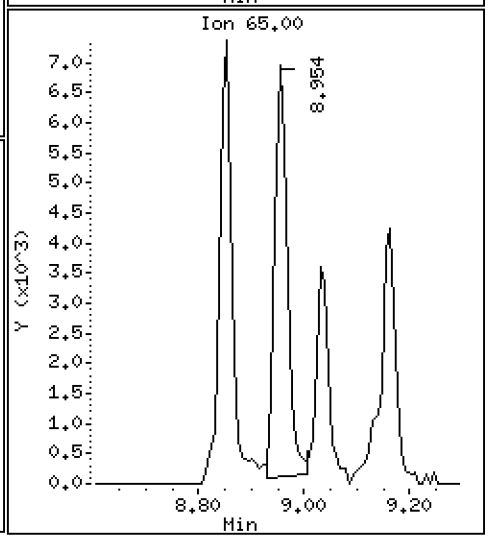












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

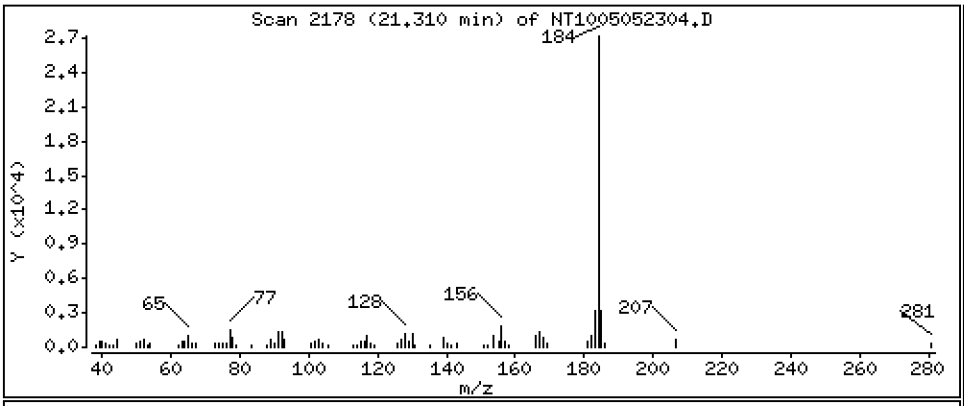
Operator: VTS

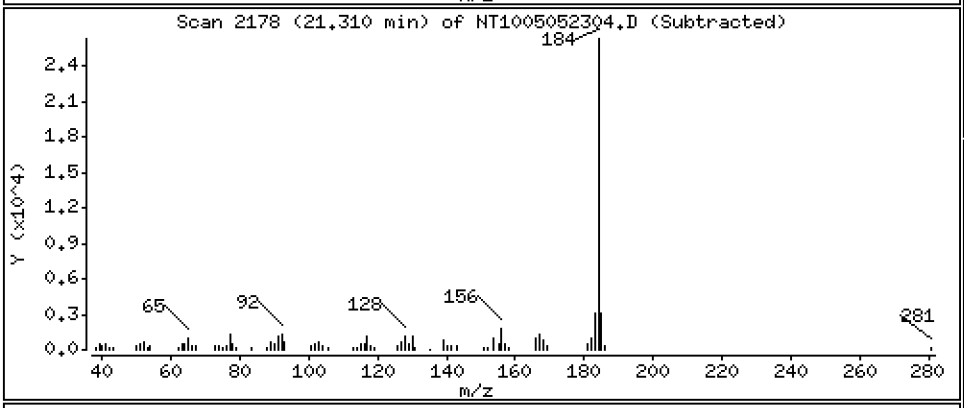
Column phase: ZB-5msi

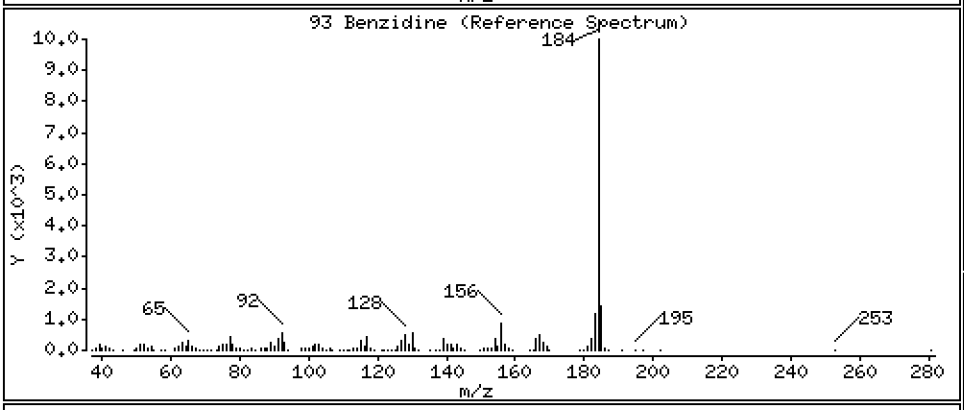
Column diameter: 0.25

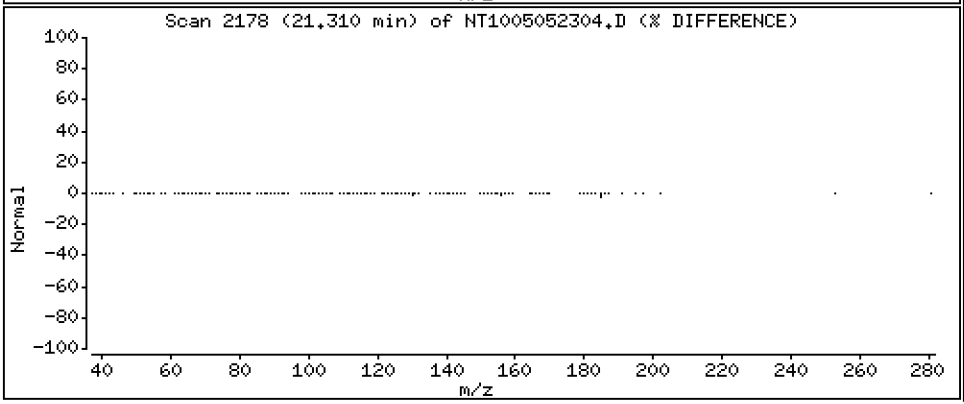
93 Benzidine

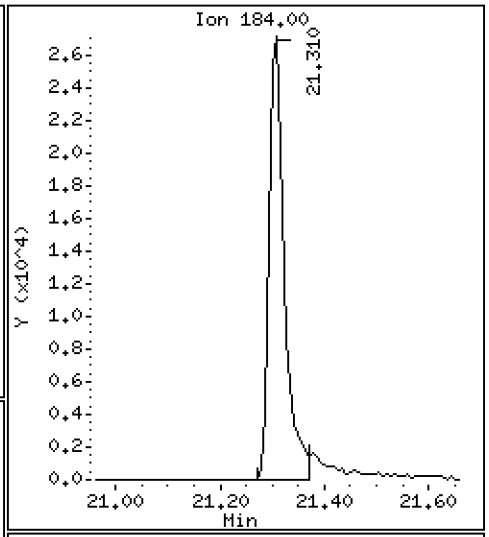
Concentration: 0.5831 ug/mL

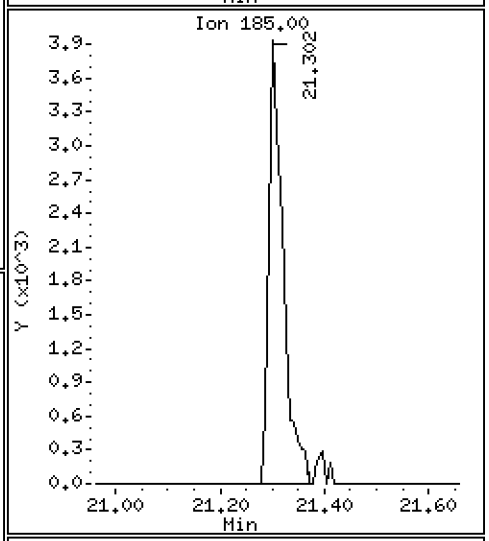


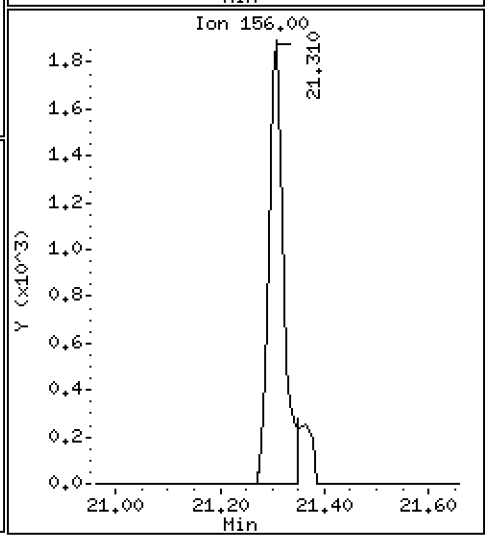












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

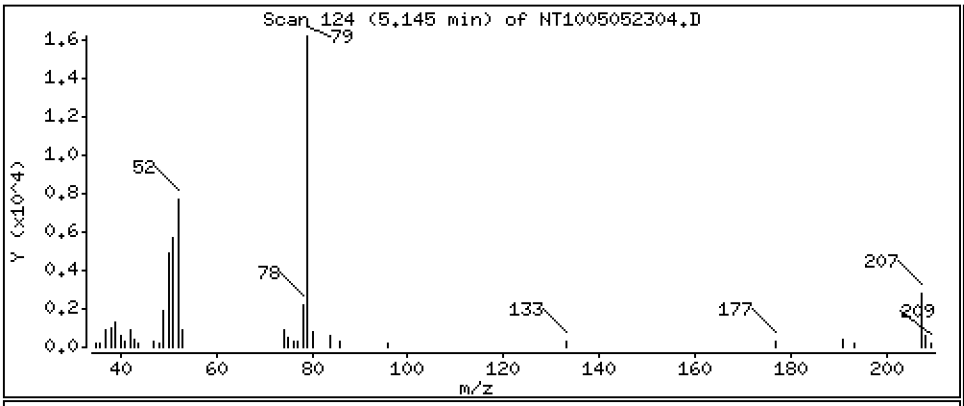
Operator: VTS

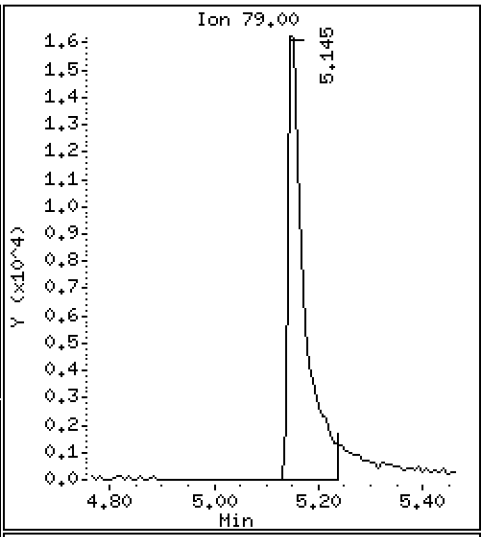
Column phase: ZB-5msi

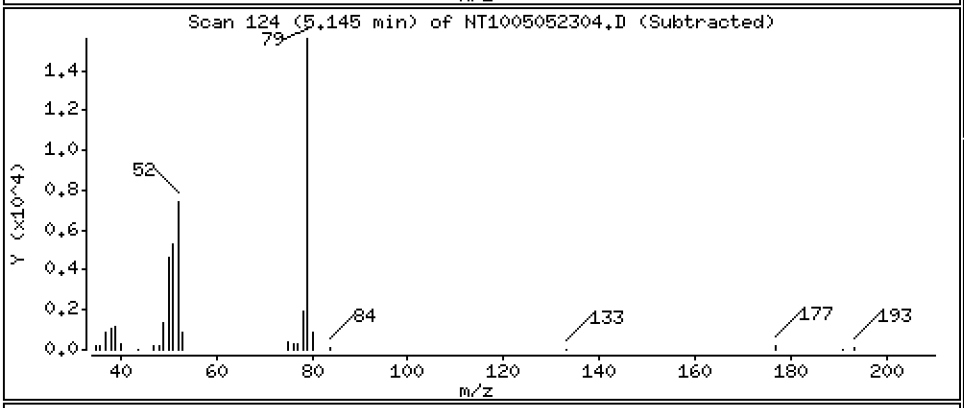
Column diameter: 0.25

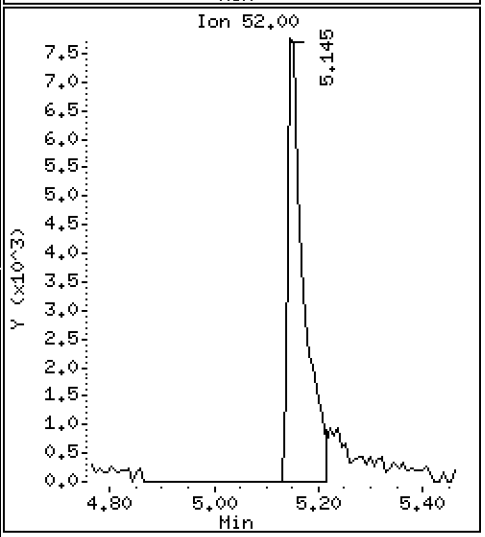
103 Pyridine

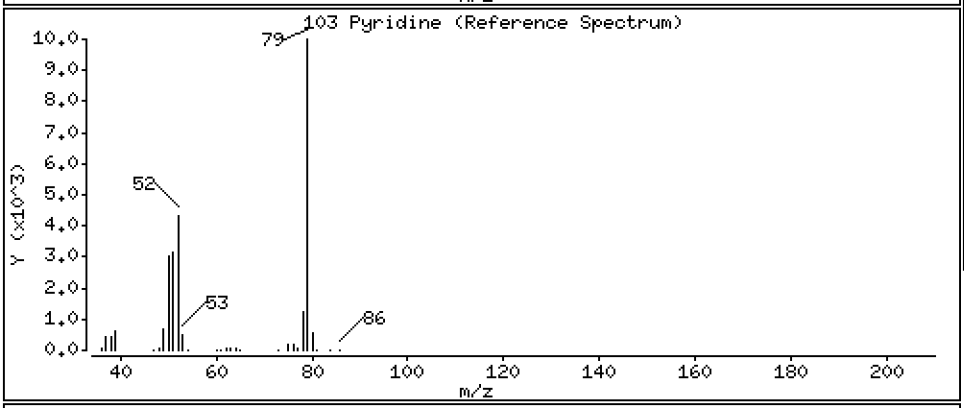
Concentration: 0.7089 ug/mL

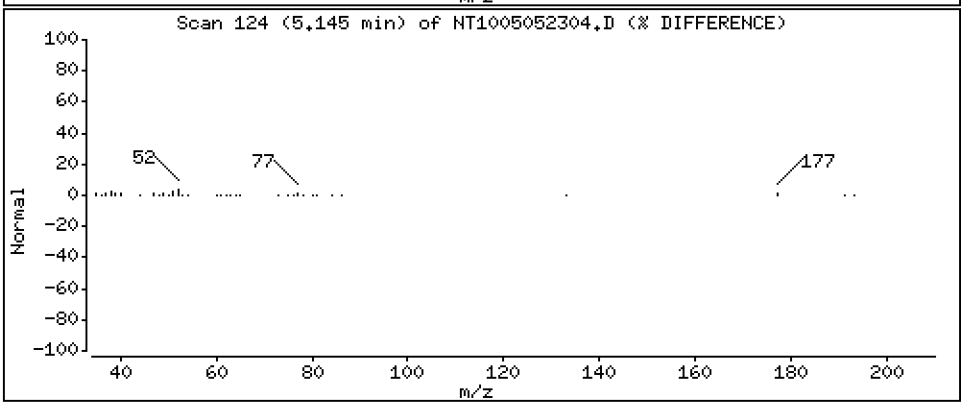












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

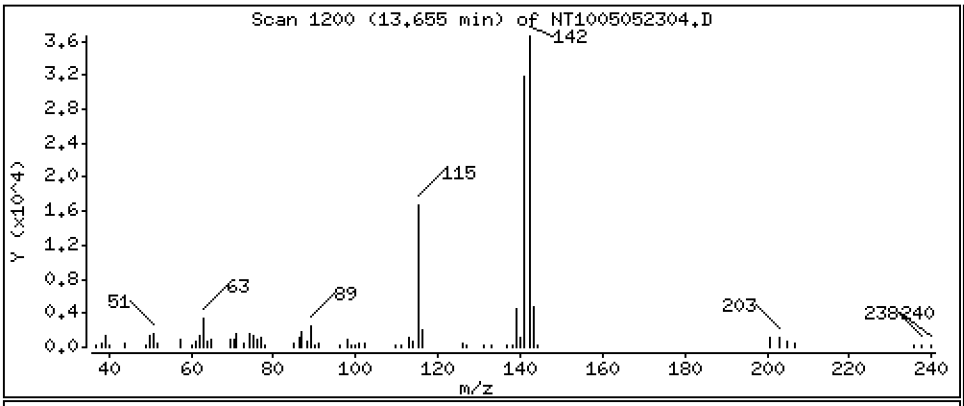
Operator: VTS

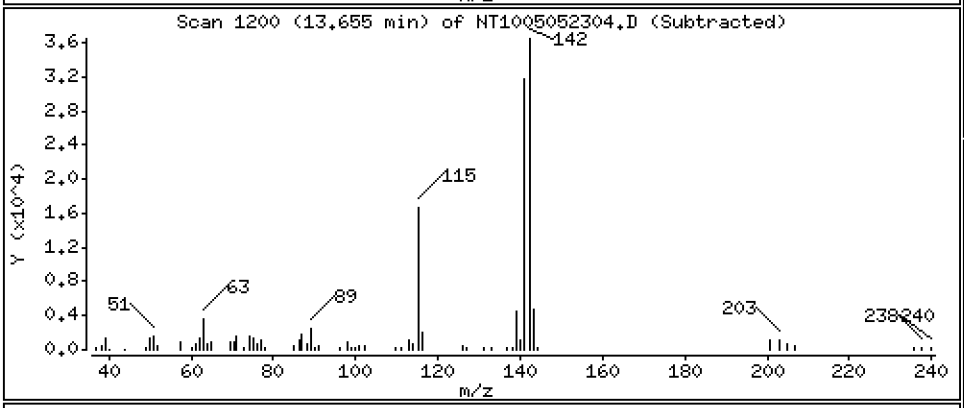
Column phase: ZB-5msi

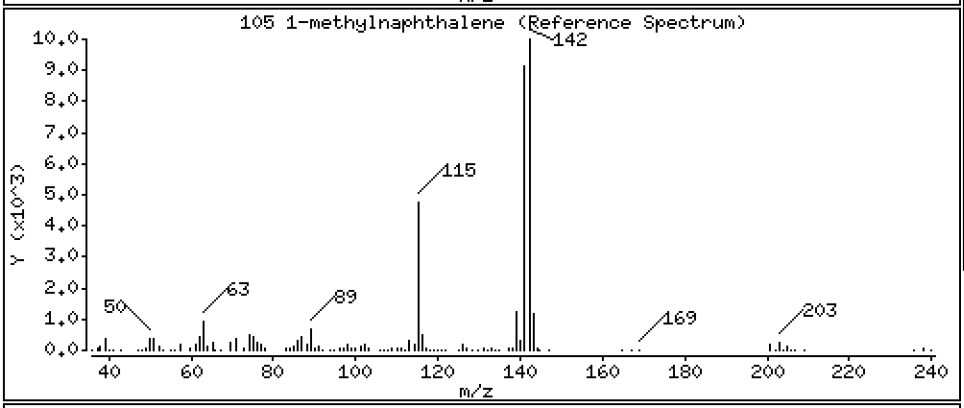
Column diameter: 0.25

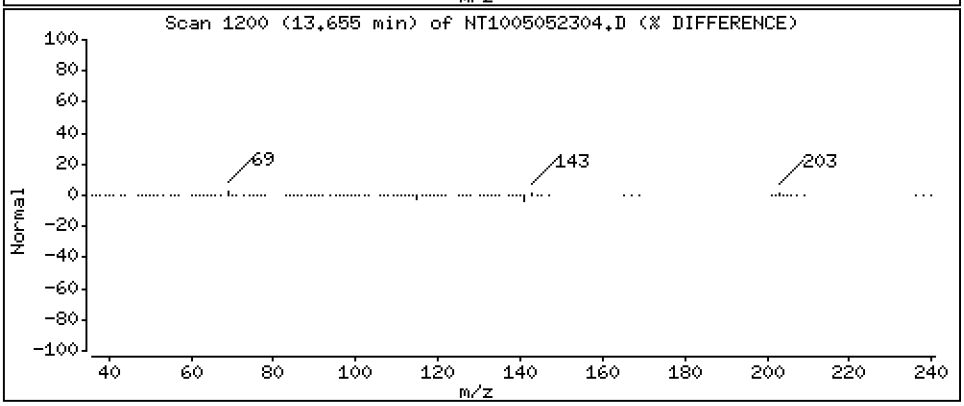
105 1-methylnaphthalene

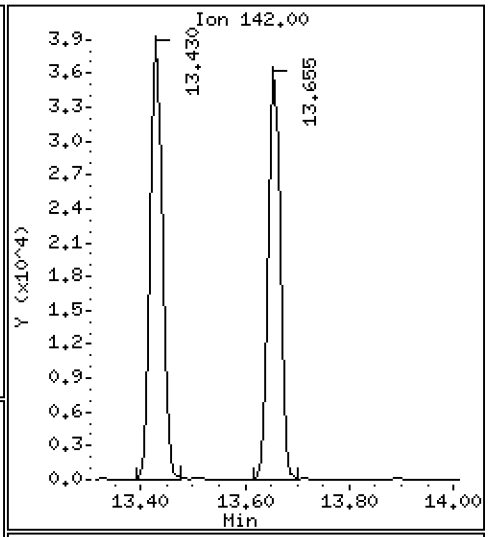
Concentration: 0.4315 ug/mL

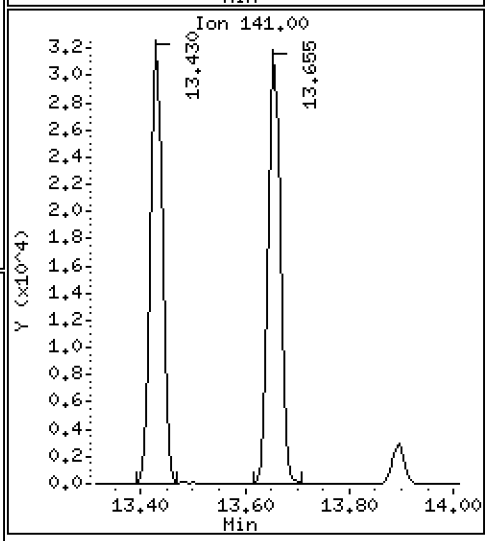












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

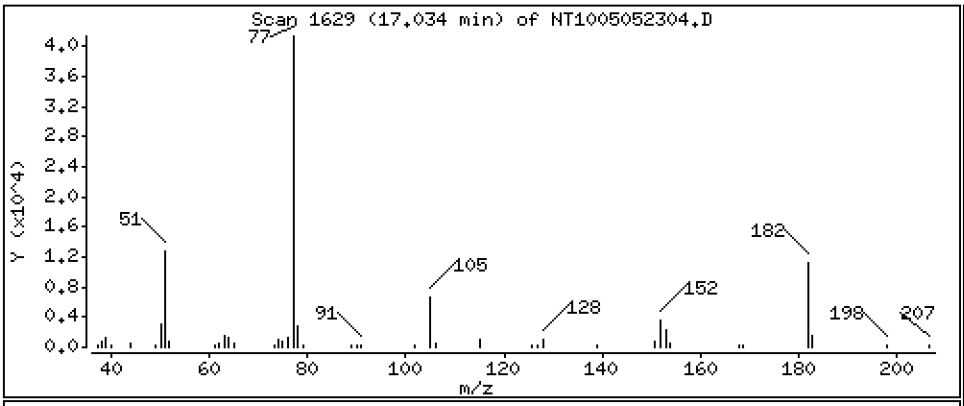
Operator: VTS

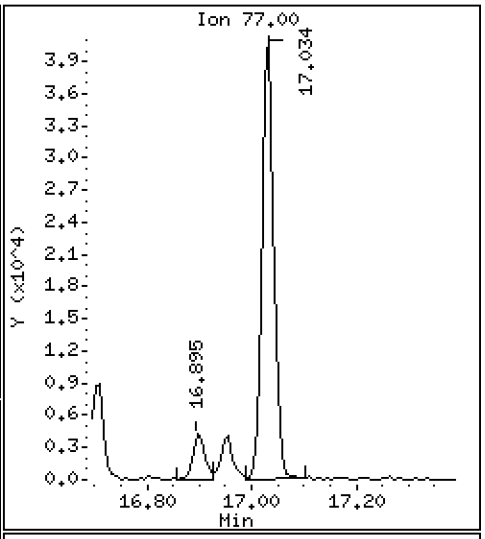
Column phase: ZB-5msi

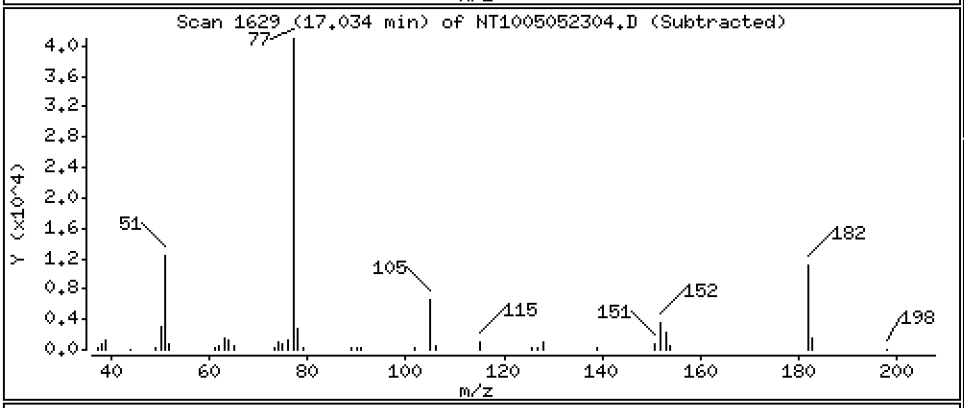
Column diameter: 0.25

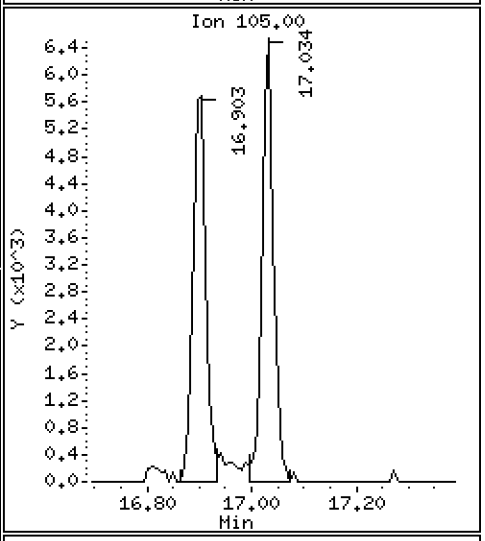
111 Azobenzene (1,2-DP-Hydrazine)

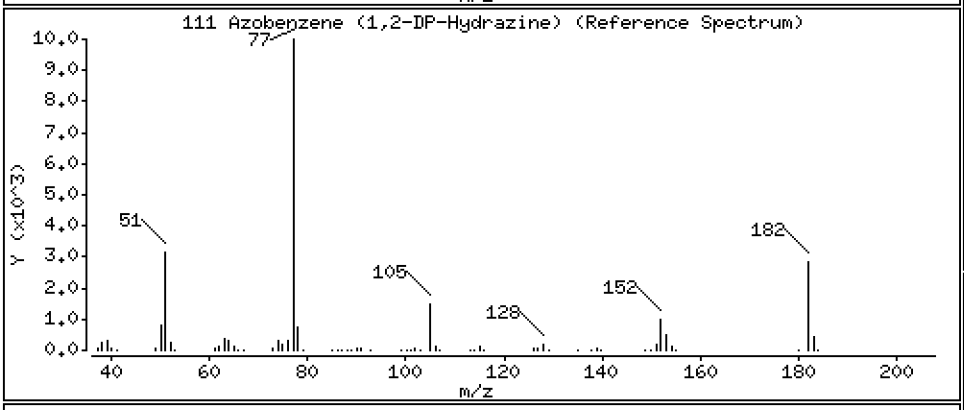
Concentration: 0.4474 ug/mL

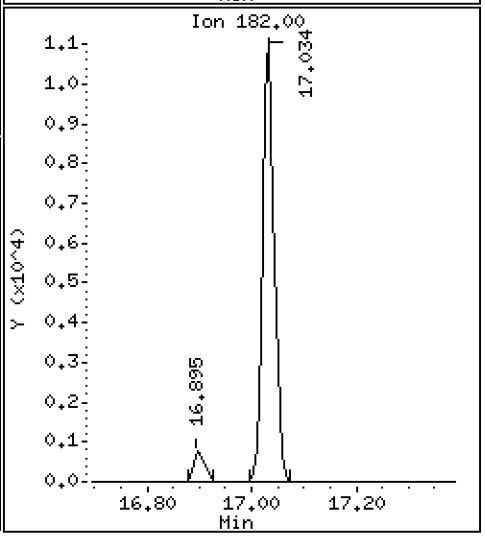


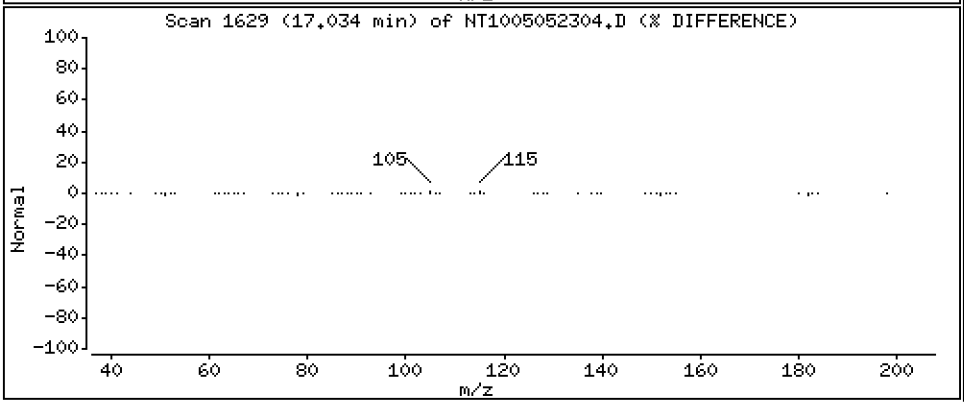












Data File: \\target\share\chem3\nt10.i\20230505.b\NT1005052304.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

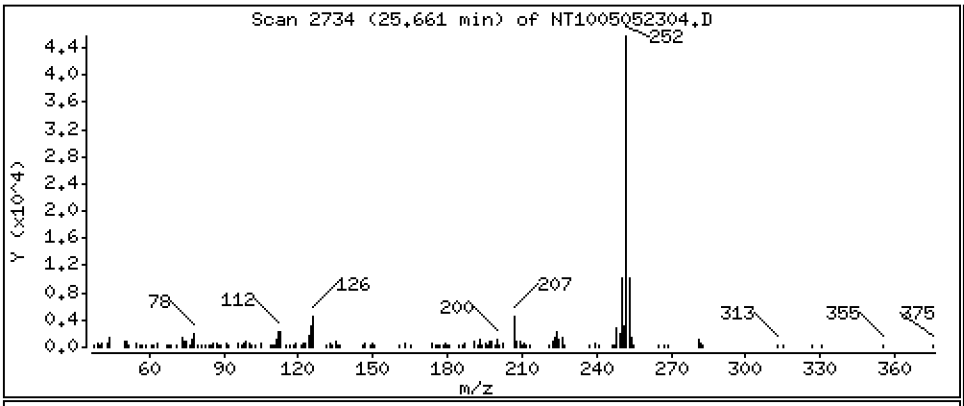
Operator: VTS

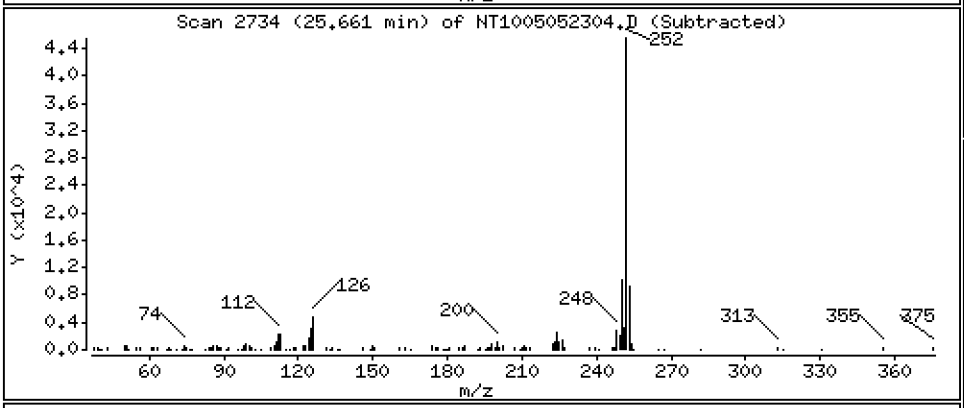
Column phase: ZB-5msi

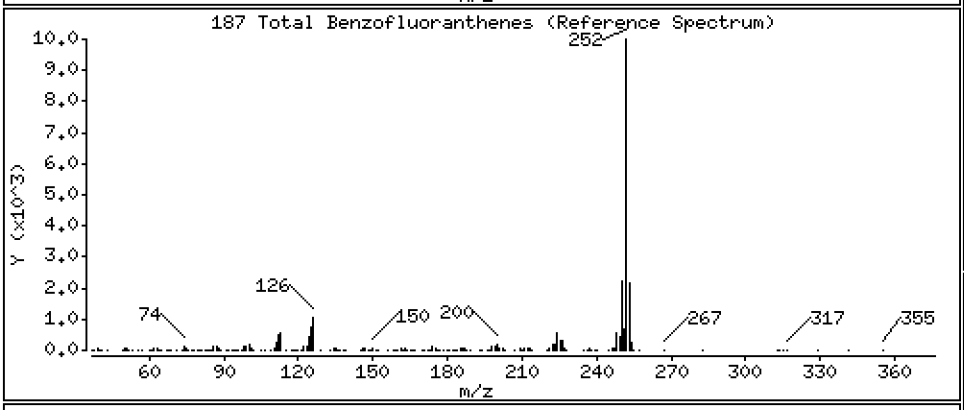
Column diameter: 0.25

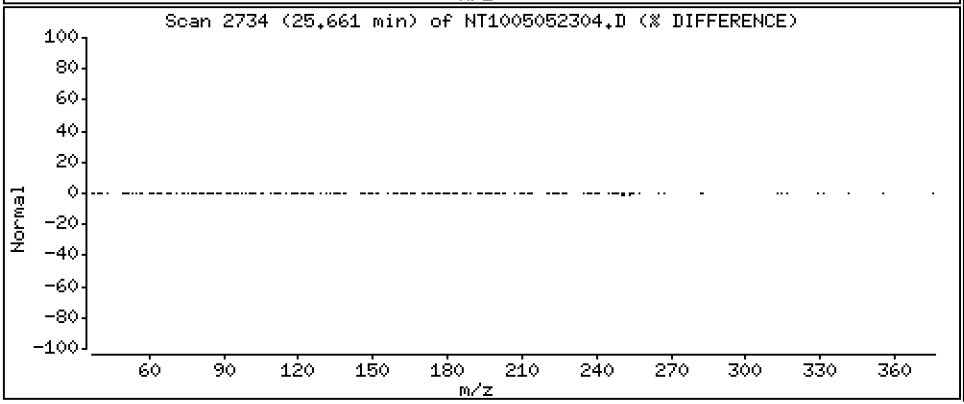
187 Total Benzofluoranthenes

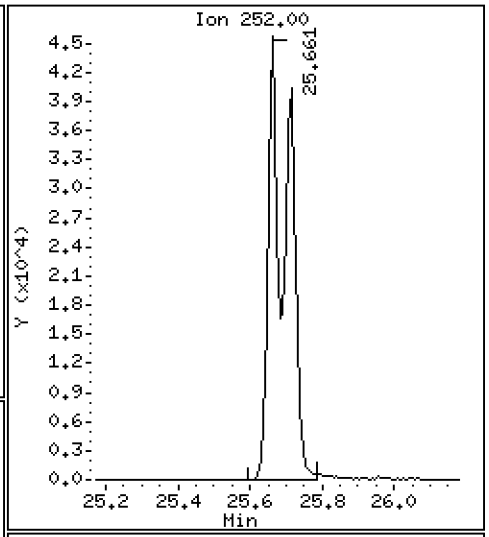
Concentration: 0.8050 ug/mL

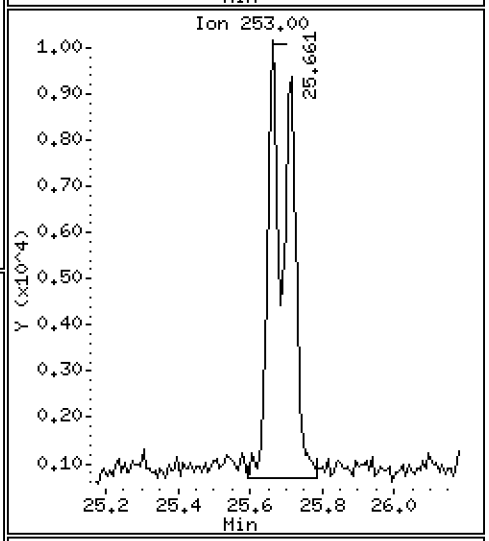


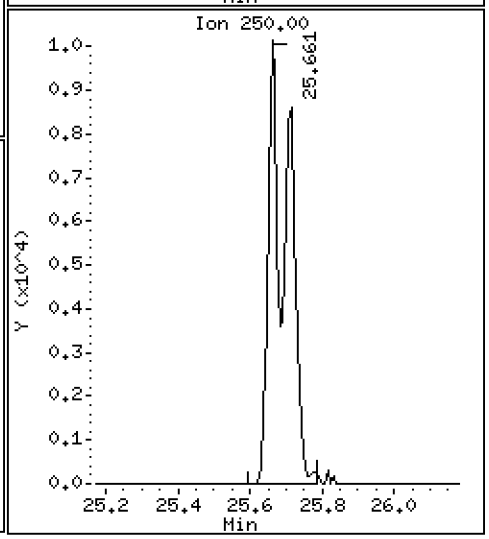












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0101-LCV1

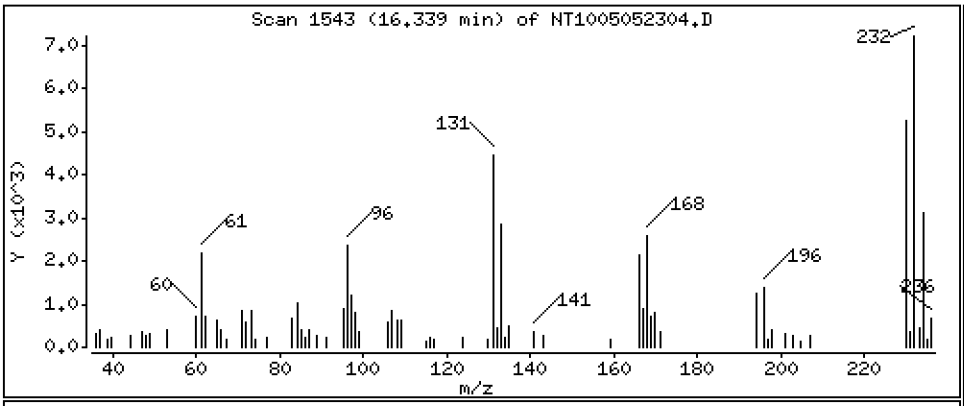
Operator: VTS

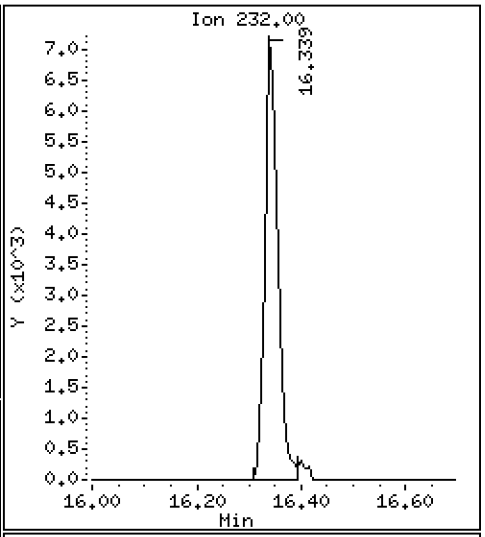
Column phase: ZB-5msi

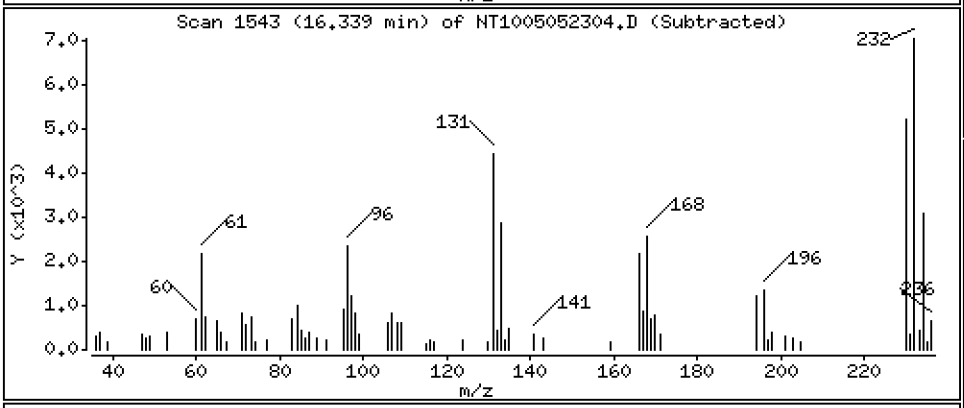
Column diameter: 0.25

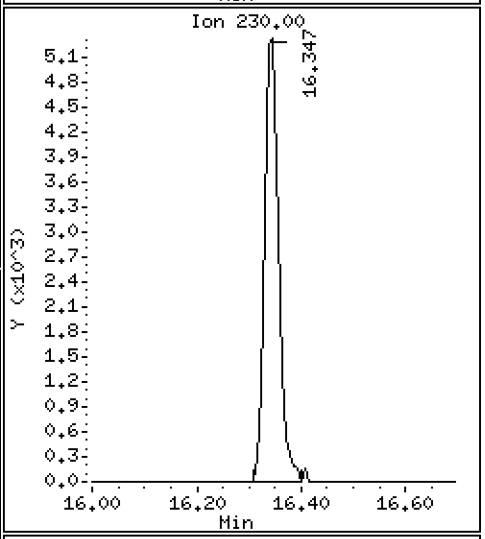
120 2,3,4,6-Tetrachlorophenol

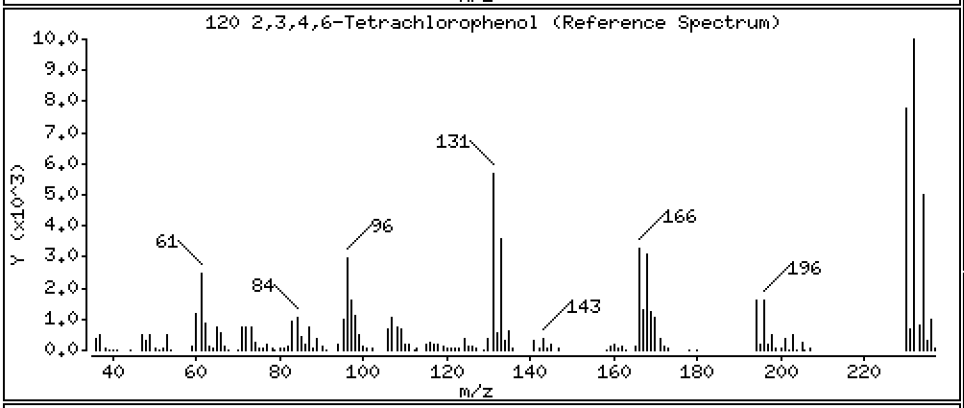
Concentration: 0.2545 ug/mL

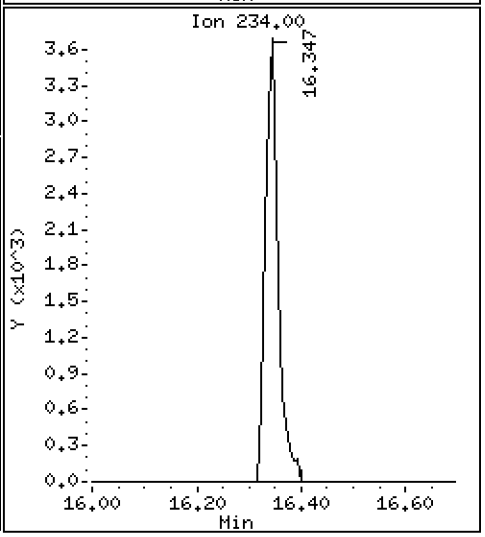


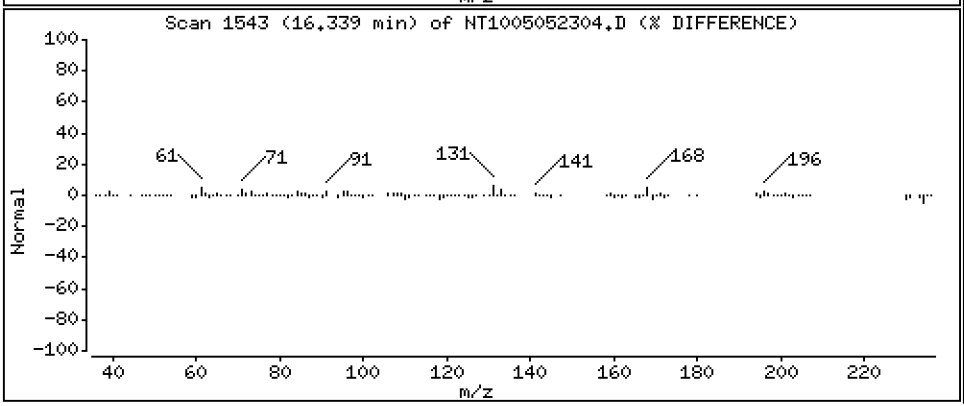












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SLE0101-LCV1
Inj Date : 05-MAY-2023 12:43
Operator : VTS Inst ID: nt10.i
Smp Info : SLE0101-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230505.b\ABN.m
Meth Date : 08-May-2023 10:14 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	7.253	7.253	(1.000)	35889	0.58828	0.5883	
$	2 Phenol-d5	99	8.830	8.830	(1.000)	43457	0.59083	0.5908	
	3 Phenol	94	8.853	8.853	(1.000)	34161	0.43438	0.4344	
$	5 2-Chlorophenol-d4	132	9.131	9.139	(1.000)	41367	0.58687	0.5869	
	4 Bis(2-Chloroethyl)ether	93	9.030	9.038	(1.000)	28137	0.49445	0.4944	
	6 2-Chlorophenol	128	9.162	9.162	(1.000)	28530	0.41141	0.4114	
	7 1,3-Dichlorobenzene	146	9.440	9.440	(1.000)	33376	0.42718	0.4272	
*	8 1,4-Dichlorobenzene-d4	152	9.502	9.502	(1.000)	201611	4.00000		(M)
	9 1,4-Dichlorobenzene	146	9.533	9.533	(1.000)	32619	0.42500	0.4250	
$	10 1,2-Dichlorobenzene-d4	152	9.867	9.867	(1.000)	21990	0.42288	0.4229	
	12 1,2-Dichlorobenzene	146	9.890	9.890	(1.000)	31930	0.42851	0.4285	
	11 Benzyl alcohol	108	9.766	9.766	(1.000)	16365	0.43293	0.4329	
	14 2,2'-oxybis(1-Chloropropane)	121	10.061	10.069	(1.059)	8877	0.41248	0.4125	(M)
	13 2-Methylphenol	108	9.976	9.976	(1.000)	24303	0.42133	0.4213	
	17 Hexachloroethane	117	10.488	10.488	(1.000)	13603	0.40991	0.4099	
	16 N-Nitroso-di-n-propylamine	70	10.317	10.325	(1.000)	17611	0.38547	0.3855	
	15 4-Methylphenol	108	10.240	10.240	(1.000)	28806	0.41600	0.4160	
$	18 Nitrobenzene-d5	82	10.597	10.604	(0.884)	30706	0.41572	0.4157	
	19 Nitrobenzene	77	10.635	10.636	(0.887)	29763	0.41695	0.4169	
	20 Isophorone	82	11.078	11.078	(0.924)	36538	0.42995	0.4300	
	21 2-Nitrophenol	139	11.266	11.266	(0.940)	11974	0.31529	0.3153	
	22 2,4-Dimethylphenol	107	11.291	11.300	(0.942)	60555	0.86872	0.8687	
	23 Bis(2-Chloroethoxy)methane	93	11.495	11.503	(0.959)	23820	0.43848	0.4385	
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	11.707	11.716	(0.976)	41871	0.76463	0.7646	
	26 1,2,4-Trichlorobenzene	180	11.906	11.906	(0.993)	29815	0.38014	0.3801	
*	27 Naphthalene-d8	136	11.991	11.999	(1.000)	660968	4.00000		
	28 Naphthalene	128	12.037	12.037	(1.004)	84321	0.45725	0.4573	
	29 4-Chloroaniline	127	12.161	12.161	(1.014)	52318	0.77099	0.7710	
	30 Hexachlorobutadiene	225	12.385	12.393	(1.033)	18373	0.42477	0.4248	
	31 4-Chloro-3-methylphenol	107	13.097	13.105	(1.092)	45722	0.76615	0.7661	
	32 2-Methylnaphthalene	142	13.430	13.437	(1.120)	59678	0.43283	0.4328	
	33 Hexachlorocyclopentadiene	237	13.894	13.902	(0.890)	29814	0.66046	0.6605	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.041	14.049	(0.899)	30044	0.67564	0.6756
	35	2,4,5-Trichlorophenol	196	14.118	14.118	(0.904)	32275	0.66559	0.6656
$	36	2-Fluorobiphenyl	172	14.204	14.211	(0.909)	69282	0.44084	0.4408
	37	2-Chloronaphthalene	162	14.428	14.436	(0.924)	55885	0.45149	0.4515
	38	2-Nitroaniline	65	14.683	14.691	(0.940)	25522	0.70998	0.7100
	39	Dimethylphthalate	163	15.101	15.109	(0.967)	60900	0.43754	0.4375
	40	Acenaphthylene	152	15.303	15.310	(0.980)	85372	0.44186	0.4419
	41	2,6-Dinitrotoluene	165	15.248	15.256	(0.976)	22271	0.70890	0.7089
*	42	Acenaphthene-d10	164	15.620	15.628	(1.000)	363017	4.00000	
	43	3-Nitroaniline	138	15.535	15.543	(0.995)	21059	0.68096	0.6810
	44	Acenaphthene	153	15.682	15.689	(1.004)	55255	0.44965	0.4497
	45	2,4-Dinitrophenol	184	15.751	15.759	(1.008)	3382	0.14039	0.1404
	46	Dibenzofuran	168	16.006	16.014	(1.025)	80078	0.44694	0.4469
	47	4-Nitrophenol	109	15.844	15.844	(1.014)	10752	0.37310	0.3731
	48	2,4-Dinitrotoluene	165	16.060	16.068	(1.028)	29757	0.66454	0.6645
	50	Diethylphthalate	149	16.555	16.571	(1.060)	58942	0.40786	0.4079
	49	Fluorene	166	16.725	16.733	(1.071)	65815	0.44528	0.4453
	51	4-Chlorophenyl-phenylether	204	16.702	16.710	(1.069)	32025	0.43512	0.4351
	52	4-Nitroaniline	138	16.810	16.825	(1.076)	18895	0.62849	0.6285
	53	4,6-Dinitro-2-methylphenol	198	16.903	16.918	(0.905)	21174	0.78350	0.7835
	54	N-Nitrosodiphenylamine	169	16.957	16.964	(0.908)	40889	0.44660	0.4466
$	55	2,4,6-Tribromophenol	330	17.265	17.265	(1.105)	7583	0.43524	0.4352
	56	4-Bromophenyl-phenylether	248	17.720	17.728	(0.949)	17922	0.41466	0.4147
	57	Hexachlorobenzene	284	18.044	18.052	(0.966)	19011	0.43822	0.4382
	58	Pentachlorophenol	266	18.401	18.401	(0.985)	8392	0.28400	0.2840
*	59	Phenanthrene-d10	188	18.671	18.679	(1.000)	692839	4.00000	
	60	Phenanthrene	178	18.718	18.726	(1.002)	89326	0.43939	0.4394
	61	Anthracene	178	18.811	18.818	(1.007)	74521	0.39668	0.3967
	62	Carbazole	167	19.128	19.136	(1.024)	70797	0.42574	0.4257
	63	Di-n-butylphthalate	149	19.894	19.902	(1.065)	75689	0.30403	0.3040
	64	Fluoranthene	202	21.078	21.085	(0.890)	98460	0.38270	0.3827
	65	Pyrene	202	21.503	21.511	(0.908)	102122	0.39735	0.3974
$	66	Terphenyl-d14	244	21.774	21.782	(0.919)	81938	0.40312	0.4031
	67	Butylbenzylphthalate	149	22.688	22.695	(0.958)	31365	0.26049	0.2605
	68	Benzo(a)anthracene	228	23.655	23.663	(0.999)	98961	0.43381	0.4338
*	69	Chrysene-d12	240	23.686	23.694	(1.000)	576240	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.601	23.609	(0.996)	83481	1.20083	1.201
	71	Chrysene	228	23.725	23.741	(1.002)	91998	0.45058	0.4506
	72	bis(2-Ethylhexyl)phthalate	149	23.694	23.702	(0.958)	44759	0.38226	0.3823
*	134	Di-n-octylphthalate-d4	153	24.724	24.739	(1.000)	812849	4.00000	
	73	Di-n-octylphthalate	149	24.739	24.747	(1.001)	99925	0.46596	0.4660
	74	Benzo(b)fluoranthene	252	25.661	25.676	(0.968)	83823	0.38973	0.3897
	75	Benzo(k)fluoranthene	252	25.715	25.730	(0.970)	87790	0.41133	0.4113
	76	Benzo(a)pyrene	252	26.388	26.404	(0.995)	68961	0.38306	0.3831
*	77	Perylene-d12	264	26.520	26.528	(1.000)	523576	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.483	29.498	(1.112)	82294	0.38051	0.3805
	79	Dibenzo(a,h)anthracene	278	29.498	29.514	(1.112)	71258	0.39342	0.3934
	80	Benzo(g,h,i)perylene	276	30.361	30.376	(1.145)	68051	0.39477	0.3948
	90	N-Nitrosodimethylamine	74	5.098	5.090	(1.000)	27595	0.83742	0.8374
	91	Aniline	93	8.953	8.953	(1.000)	51984	0.80201	0.8020
	93	Benzidine	184	21.310	21.310	(0.900)	53632	0.58313	0.5831
	103	Pyridine	79	5.144	5.114	(1.000)	36834	0.70887	0.7089
	105	1-methylnaphthalene	142	13.654	13.662	(1.139)	54539	0.43146	0.4315
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.034	17.041	(1.091)	63169	0.44742	0.4474

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.661	25.676	(0.968)	166663	0.80500	0.8050
120 2,3,4,6-Tetrachlorophenol	232	16.339	16.346	(1.046)	11892	0.25452	0.2545

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052304.D
Lab Smp Id: SLE0101-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230505.b\ABN.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 11:37
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	179464	89732	358928	201611	12.34
27 Naphthalene-d8	621628	310814	1243256	660968	6.33
42 Acenaphthene-d10	353112	176556	706224	363017	2.81
59 Phenanthrene-d10	694933	347467	1389866	692839	-0.30
69 Chrysene-d12	553967	276984	1107934	576240	4.02
134 Di-n-octylphthala	895601	447801	1791202	812849	-9.24
77 Perylene-d12	482573	241287	965146	523576	8.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	-0.00
27 Naphthalene-d8	12.00	11.50	12.50	11.99	-0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.69	23.19	24.19	23.69	-0.03
134 Di-n-octylphthala	24.74	24.24	25.24	24.72	-0.06
77 Perylene-d12	26.53	26.03	27.03	26.52	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005052304.D

Lab ID: SLE0101-LCV1
nt10.i, 20230505.b\ABN.m,   05-MAY-2023 12:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

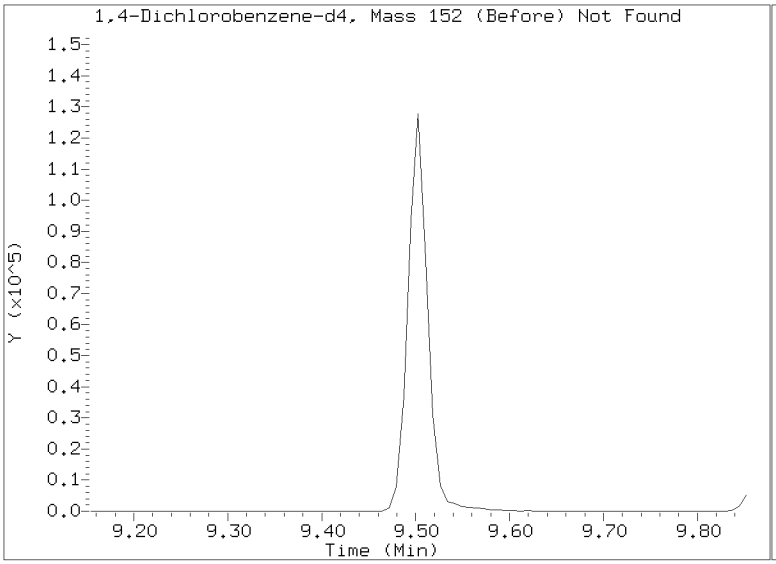
RRT check based on Ccal File: NT1005052303.D

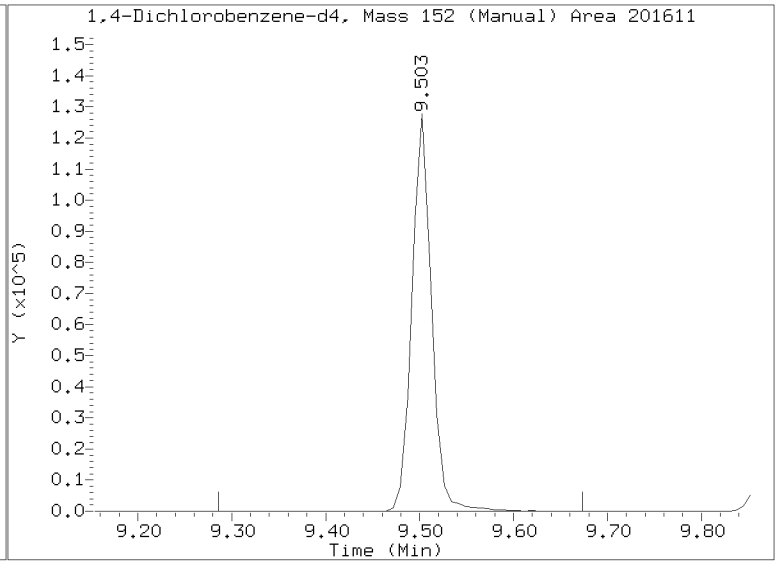
On Column LOD for nt10.i, 20230505.b\ABN.m, ICAL.sub = 0.0000

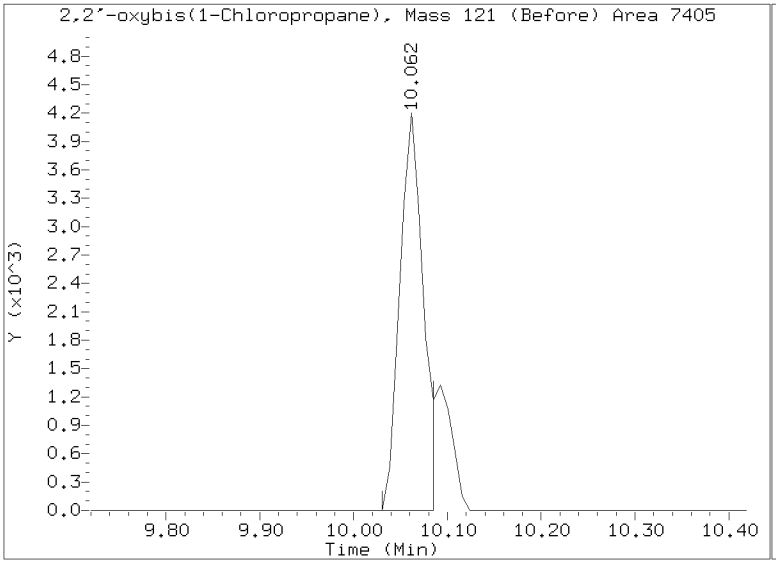
* Only compounds listed in the work order have been verified by the analyst *

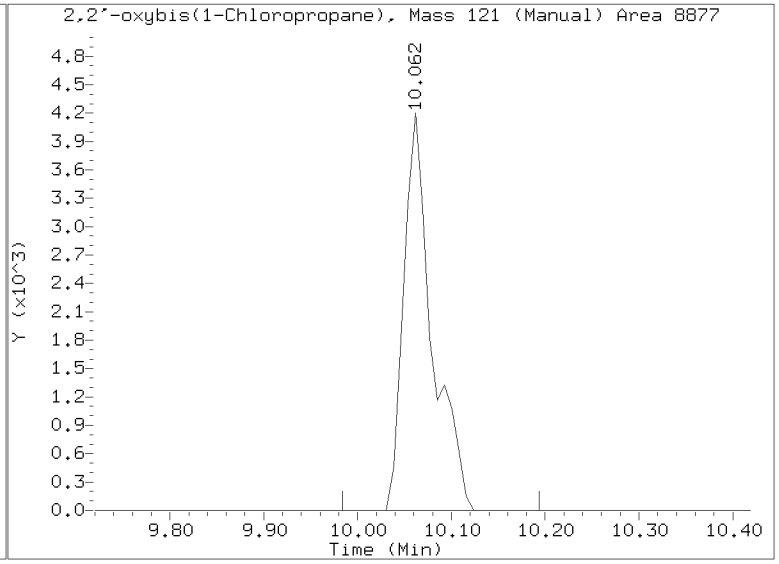
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/NT1005052304.D
Injection Date: 05-MAY-2023 12:43
Lab ID:SLE0101-LCV1 Client ID:
Report Date: 05/08/2023 10:14









APPROVED

By Deenay Dunmore at 10:39 am, May 08, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0036	Instrument:	NT10
		Calibration:	GE00012

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLE0036-TUN1	NT1005012301.D	NA	05/01/23 14:35
20 ppm ABN	SLE0036-CAL7	NT1005012302.D	NA	05/01/23 14:52
10 ppm ABN	SLE0036-CAL6	NT1005012303.D	NA	05/01/23 15:31
5 ppm ABN	SLE0036-CAL5	NT1005012304.D	NA	05/01/23 16:10
2.5 ppm ABN	SLE0036-CAL4	NT1005012305.D	NA	05/01/23 16:49
1 ppm ABN	SLE0036-CAL3	NT1005012306.D	NA	05/01/23 17:28
0.5 ppm ABN	SLE0036-CAL2	NT1005012307.D	NA	05/01/23 18:07
0.2 ppm ABN	SLE0036-CAL1	NT1005012308.D	NA	05/01/23 18:46
SCV 5.0	SLE0036-SCV1	NT1005012311.D	NA	05/01/23 20:43
Initial Cal Blank	SLE0036-ICB1	NT1005012312.D	NA	05/01/23 21:22

ANALYSIS SEQUENCE

SLE0036

Instrument ID: NT10
Calibration ID: GE00012
MS EM Level: 1400 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L004747

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0036-TUN1	MS Tune	QC		1	L002618		05/01/2023 14:35	NT1005012301.D	JGR	
SLE0036-CAL1	0.2 ppm ABN	QC		2	K011105	K010831	05/01/2023 18:46	NT1005012308.D	VTS	
SLE0036-CAL2	0.5 ppm ABN	QC		3	K011106	K010831	05/01/2023 18:07	NT1005012307.D	VTS	
SLE0036-CAL3	1 ppm ABN	QC		4	K011107	K010831	05/01/2023 17:28	NT1005012306.D	VTS	
SLE0036-CAL4	2.5 ppm ABN	QC		5	K011108	K010831	05/01/2023 16:49	NT1005012305.D	VTS	
SLE0036-CAL5	5 ppm ABN	QC		6	K011109	K010831	05/01/2023 16:10	NT1005012304.D	VTS	
SLE0036-CAL6	10 ppm ABN	QC		7	K011110	K010831	05/01/2023 15:31	NT1005012303.D	VTS	
SLE0036-CAL7	20 ppm ABN	QC		8	K011111	K010831	05/01/2023 14:52	NT1005012302.D	VTS	
SLE0036-SCV1	SCV 5.0	QC		9	K010066	K010831	05/01/2023 20:43	NT1005012311.D	VTS	
SLE0036-ICB1	Initial Cal Blank	QC		10	K005156	K010831	05/01/2023 21:22	NT1005012312.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b

	Time	Filename	LabID	ClientId	DF																
1	1435	NT1005012301.D	SLE0036-TUN1		1	|NO ISTDS FOUND||															
2	1452	NT1005012302.D	SLE0036-CAL7		1	| 9.50	146674||12.00	540672||15.63	301804||18.69	570862||23.71	491034||26.55	317394||24.75	805047|								
3	1531	NT1005012303.D	SLE0036-CAL6		1	| 9.49	143173||11.99	527883||15.62	301848||18.68	570788||23.70	422654||26.55	329659||24.75	727542|								
4	1610	NT1005012304.D	SLE0036-CAL5		1	| 9.49	144303||11.99	493698||15.62	279210||18.68	521463||23.70	369911||26.55	311339||24.75	626668|								
5	1649	NT1005012305.D	SLE0036-CAL4		1	| 9.49	139256||11.99	479621||15.62	272839||18.68	522698||23.70	378327||26.55	328795||24.75	602724|								
6	1728	NT1005012306.D	SLE0036-CAL3		1	| 9.49	162166||11.99	539712||15.62	305754||18.68	569677||23.69	438621||26.54	394959||24.74	688022|								
7	1807	NT1005012307.D	SLE0036-CAL2		1	| 9.49	147126||11.98	495631||15.62	278249||18.68	508190||23.69	394033||26.53	365729||24.73	603762|								
8	1846	NT1005012308.D	SLE0036-CAL1		1	| 9.49	159331||11.98	560494||15.61	302504||18.67	560701||23.69	440035||26.52	398434||24.72	654162|								
9	2043	NT1005012311.D	SLE0036-SCV1		1	| 9.49	128837||11.99	469135||15.62	260867||18.67	479585||23.69	366214||26.54	326407||24.74	633915|								
10	2122	NT1005012312.D	SLE0036-ICB1		1	| 9.49	149952||11.98	548897||15.62	293264||18.67	524738||23.69	405166||26.54	379142||24.74	599674|								

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b

ARI Job No.: SEQ- Method: DFTPP8270E.m Instrument: nt10.i Date: 01-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1435	NT1005012301.D	SEQ-TUN1		1	NO MANUAL INTEGRATION
1452	NT1005012302.D	SEQ-CAL7		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane), Benzoic acid,
1531	NT1005012303.D	SEQ-CAL6		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1610	NT1005012304.D	SEQ-CAL5		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1649	NT1005012305.D	SEQ-CAL4		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1728	NT1005012306.D	SEQ-CAL3		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1807	NT1005012307.D	SEQ-CAL2		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1846	NT1005012308.D	SEQ-CAL1		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane), Dibenzo(a,h)anthracene,
1925	NT1005012309.D	SEQ-SIM2		1	NO MANUAL INTEGRATION
2004	NT1005012310.D	SEQ-SIM1		1	NO MANUAL INTEGRATION
2043	NT1005012311.D	SEQ-SCV1		1	1,4-Dichlorobenzene-d4,
2122	NT1005012312.D	SEQ-ICB1		1	1,4-Dichlorobenzene-d4,

Security Status Report

Date: 03-May-2023 14:10

NT1005012301.D	Data Locked	deenayd, 03-
NT1005012302.D	Data Locked	deenayd, 03-
NT1005012303.D	Data Locked	deenayd, 03-
NT1005012304.D	Data Locked	deenayd, 03-
NT1005012305.D	Data Locked	deenayd, 03-
NT1005012306.D	Data Locked	deenayd, 03-
NT1005012307.D	Data Locked	deenayd, 03-
NT1005012308.D	Data Locked	deenayd, 03-
NT1005012309.D	Data Locked	deenayd, 03-
NT1005012310.D	Data Locked	deenayd, 03-
NT1005012311.D	Data Locked	deenayd, 03-
NT1005012312.D	Data Locked	deenayd, 03-

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INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230501.b\NT1005012308.D
Level 2: \\target\share\chem3\nt10.i\20230501.b\NT1005012307.D
Level 3: \\target\share\chem3\nt10.i\20230501.b\NT1005012306.D
Level 4: \\target\share\chem3\nt10.i\20230501.b\NT1005012305.D
Level 5: \\target\share\chem3\nt10.i\20230501.b\NT1005012304.D
Level 6: \\target\share\chem3\nt10.i\20230501.b\NT1005012303.D
Level 7: \\target\share\chem3\nt10.i\20230501.b\NT1005012302.D

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

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

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

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

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

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
120 2,3,4,6-Tetrachlorophenol	4346 / 917902	12669	32485	82028	177328	428988	QUAD	0.000e+000	1.94569	-0.10036	0.99962	
178 2-Benzyl-4-Chlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
118 Triphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
113 Diphenyl Oxide	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.50094 / 1.54457	1.52321	1.55454	1.59588	1.56073	1.60986	AVRG		1.55568		2.45512	
110 Tetrachloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
106 Guaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.73396 / 0.80415	0.74018	0.75250	0.77022	0.74902	0.80481	AVRG		0.76498		3.82480	
151 1,2,4,5-Tetrachlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
153 Chlorpyrifos	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 Diazinon	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 Kelthane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
3 Phenol	1.54709	1.52827	1.51975	1.60245	1.51603	1.66425					
	1.54433						AVRG		1.56031		3.47517
4 Bis(2-Chloroethyl)ether	1.20767	1.14411	1.15284	1.13222	1.06223	1.15877					
	1.04531						AVRG		1.12902		5.02937

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 2-Chlorophenol	1.34487	1.33170	1.34063	1.37973	1.33679	1.48978					
	1.40742						AVRG		1.37585		4.16121
7 1,3-Dichlorobenzene	1.59994	1.52533	1.49617	1.54393	1.49687	1.63792					
	1.55083						AVRG		1.55014		3.39221
9 1,4-Dichlorobenzene	1.58224	1.50940	1.48164	1.48067	1.45523	1.60525					
	1.54471						AVRG		1.52273		3.69792
11 Benzyl alcohol	0.64871	0.64484	0.72706	0.75860	0.77627	0.87251					
	0.82184						AVRG		0.74998		11.25890
12 1,2-Dichlorobenzene	1.52538	1.42664	1.41650	1.46620	1.41254	1.59766					
	1.50375						AVRG		1.47838		4.62652
13 2-Methylphenol	1.07299	1.12312	1.10507	1.16189	1.11802	1.25416					
	1.17559						AVRG		1.14440		5.18466
14 2,2'-oxybis(1-Chloropropane)	0.48390	0.43690	0.39189	0.41476	0.38975	0.46845					
	0.40318						AVRG		0.42698		8.75842

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 4-Methylphenol	1.34588	1.33921	1.32129	1.33472	1.37087	1.50022					
	1.40475						AVRG		1.37385		4.52720
16 N-Nitroso-di-n-propylamine	0.85031	0.88996	0.88988	0.93985	0.88898	0.97781					
	0.90823						AVRG		0.90643		4.55206
17 Hexachloroethane	0.62649	0.61825	0.63959	0.66268	0.65616	0.72145					
	0.68423						AVRG		0.65841		5.42335
19 Nitrobenzene	0.41538	0.44030	0.44563	0.45255	0.42672	0.43656					
	0.40679						AVRG		0.43199		3.82384
20 Isophorone	0.42595	0.46925	0.50316	0.52244	0.57933	0.53876					
	0.56109						AVRG		0.51428		10.36299
21 2-Nitrophenol	3761	10446	26205	61872	135168	310157					
	610580						QUAD	0.000e+000	4.35003	0.05591	0.99947
22 2,4-Dimethylphenol	+++++	0.42002	0.41275	0.42238	0.41623	0.43485					
	0.42481						AVRG		0.42184		1.82411

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.31979	0.34369	0.33072	0.33150	0.32061	0.33698					
	0.31798						AVRG		0.32875		2.95128
24 Benzoic acid	+++++	39492	119940	311612	678934	1642196					
	3309159						QUAD	0.000e+000	3.42791	-0.02831	0.99901
25 2,4-Dichlorophenol	0.27779	0.30549	0.32582	0.33793	0.33658	0.37106					
	0.36507						AVRG		0.33139		9.81888
26 1,2,4-Trichlorobenzene	0.47465	0.48292	0.47857	0.47461	0.45786	0.48526					
	0.46866						AVRG		0.47465		1.95048
28 Naphthalene	1.12690	1.11485	1.12188	1.10077	1.08655	1.14677					
	1.11421						AVRG		1.11599		1.71736
29 4-Chloroaniline	0.35223	0.37831	0.39494	0.40909	0.41030	0.46610					
	0.46367						AVRG		0.41066		10.23266
30 Hexachlorobutadiene	0.26123	0.26442	0.26268	0.26245	0.25231	0.26961					
	0.25960						AVRG		0.26176		1.99905

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
31 4-Chloro-3-methylphenol	+++++	0.31753	0.34259	0.35190	0.36013	0.39551					
	0.39926						AVRG		0.36115		8.72665
32 2-Methylnaphthalene	0.79012	0.81785	0.80593	0.83300	0.82352	0.88427					
	0.88608						AVRG		0.83440		4.46348
33 Hexachlorocyclopentadiene	+++++	0.41189	0.44548	0.48333	0.49712	0.56102					
	0.58558						AVRG		0.49740		13.34415
34 2,4,6-Trichlorophenol	+++++	0.39122	0.44816	0.48072	0.49681	0.54794					
	0.57499						AVRG		0.48997		13.60616
35 2,4,5-Trichlorophenol	+++++	0.43607	0.48447	0.52371	0.53992	0.59598					
	0.62570						AVRG		0.53431		13.08343
37 2-Chloronaphthalene	1.30140	1.36557	1.36230	1.35215	1.34141	1.40202					
	1.42238						AVRG		1.36389		2.90632
38 2-Nitroaniline	+++++	0.33780	0.37441	0.41731	0.40439	0.42619					
	0.41649						AVRG		0.39610		8.53115

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
39 Dimethylphthalate	1.46570	1.50783	1.55012	1.56811	1.54640	1.57798					
	1.51951						AVRG		1.53366		2.53523
40 Acenaphthylene	2.00348	2.07518	2.13037	2.14658	2.14807	2.20097					
	2.19800						AVRG		2.12895		3.28064
41 2,6-Dinitrotoluene	+++++	0.29486	0.32382	0.34665	0.35397	0.38124					
	0.37649						AVRG		0.34617		9.44293
43 3-Nitroaniline	+++++	0.29047	0.31917	0.33219	0.33779	0.38006					
	0.38488						AVRG		0.34076		10.63640
44 Acenaphthene	1.31251	1.33219	1.33161	1.33698	1.32636	1.41662					
	1.42191						AVRG		1.35402		3.34199
45 2,4-Dinitrophenol	+++++	14366	49007	143085	348285	931559					
	2018441						QUAD	0.000e+000	3.76849	-0.11827	0.99811
46 Dibenzofuran	1.87898	1.89804	1.93698	1.98853	1.95590	2.07873					
	2.08241						AVRG		1.97423		4.10613

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 4-Nitrophenol	+++++ / 998518	14696	39582	100625	215878	501336	QUAD	0.000e+000	3.15042	-0.04085	0.99963
48 2,4-Dinitrotoluene	9342 / 1567355	26851	66923	161624	332505	782047	QUAD	0.000e+000	2.02844	-0.02063	0.99967
49 Fluorene	1.58286 / 1.76405	1.57082	1.58798	1.60145	1.57799	1.71530	AVRG		1.62863		4.77204
50 Diethylphthalate	1.41175 / 1.90619	1.49345	1.55297	1.58953	1.56519	1.62760	AVRG		1.59238		9.74336
51 4-Chlorophenyl-phenylether	0.78492 / 0.88792	0.76173	0.77812	0.80144	0.80327	0.85954	AVRG		0.81099		5.65348
52 4-Nitroaniline	+++++ / 1059767	18011	40151	88491	225829	533420	QUAD	0.000e+000	3.02140	-0.05244	0.99879
53 4,6-Dinitro-2-methylphenol	+++++ / 2135578	24240	68698	180156	397119	997636	QUAD	0.000e+000	6.41817	-0.29065	0.99925

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
54 N-Nitrosodiphenylamine	0.50665	0.52278	0.54641	0.51536	0.52014	0.52990					
	0.55884						AVRG		0.52858		3.45093
56 4-Bromophenyl-phenylether	0.23021	0.23898	0.24210	0.24375	0.24766	0.27064					
	0.27338						AVRG		0.24953		6.52586
57 Hexachlorobenzene	0.25208	0.24314	0.24855	0.24408	0.24938	0.25438					
	0.26160						AVRG		0.25046		2.53236
58 Pentachlorophenol	+++++	13163	38553	95167	218051	563878					
	1284710						QUAD	0.000e+000	5.86950	-0.63894	0.99907
60 Phenanthrene	1.14642	1.15906	1.15410	1.13442	1.15228	1.20932					
	1.26023						AVRG		1.17369		3.82617
61 Anthracene	0.95184	1.02218	1.07669	1.06681	1.10191	1.16207					
	1.21061						AVRG		1.08459		7.90261
62 Carbazole	0.87045	0.97756	1.00200	0.92359	0.87053	0.98340					
	1.09291						AVRG		0.96006		8.24933

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
63 Di-n-butylphthalate	27766	71030	175110	437568	920604	2208223					
	4565321						QUAD	0.000e+000	0.69674	-0.00911	0.99966
64 Fluoranthene	1.51724	1.64362	1.73268	1.85199	1.91941	2.01929					
	1.81698						AVRG		1.78589		9.50493
65 Pyrene	1.61105	1.67669	1.74930	1.81992	1.91024	1.94111					
	1.77982						AVRG		1.78402		6.65429
67 Butylbenzylphthalate	10403	27273	71706	169922	360782	827854					
	1736632						QUAD	0.000e+000	1.19314	0.06093	0.99947
68 Benzo(a)anthracene	1.57656	1.55932	1.59017	1.58473	1.63927	1.61381					
	1.52080						AVRG		1.58352		2.39623
70 3,3'-Dichlorobenzidine	+++++	74000	170399	326864	595388	1833732					
	5247678						QUAD	0.000e+000	2.08146	-0.06379	0.99737
71 Chrysene	1.46266	1.51149	1.41922	1.41566	1.40099	1.39588					
	1.31525						AVRG		1.41731		4.27952

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
72 bis(2-Ethylhexyl)phthalate	0.46548	0.53948	0.55999	0.61419	0.61315	0.62220					
	0.61887						AVRG		0.57619		10.17291
73 Di-n-octylphthalate	1.11076	1.08053	1.06530	1.03963	1.02801	1.04516					
	1.01768						AVRG		1.05530		3.07585
74 Benzo(b)fluoranthene	1.40169	1.43280	1.57119	1.60593	1.65887	1.83243					
	1.99934						AVRG		1.64318		12.95904
75 Benzo(k)fluoranthene	1.50685	1.60893	1.51616	1.53451	1.66870	1.69628					
	1.88241						AVRG		1.63055		8.20104
187 Total Benzofluoranthenes	1.43293	1.46792	1.48946	1.51395	1.60342	1.69058					
	1.87360						AVRG		1.58169		9.85235
76 Benzo(a)pyrene	1.22178	1.24219	1.30017	1.32077	1.40459	1.48675					
	1.65131						AVRG		1.37537		11.08117
78 Indeno(1,2,3-cd)pyrene	1.47784	1.52929	1.54704	1.58956	1.67153	1.77425					
	1.97635						AVRG		1.65226		10.50730

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79 Dibenzo(a,h)anthracene	1.31655	1.24173	1.29108	1.30585	1.36789	1.46624					
	1.69699						AVRG		1.38376		11.21556
80 Benzo(g,h,i)perylene	1.26937	1.24026	1.25633	1.28219	1.32631	1.38709					
	1.45720						AVRG		1.31697		6.01928
90 N-Nitrosodimethylamine	0.64275	0.63410	0.63476	0.66046	0.62423	0.71815					
	0.66202						AVRG		0.65378		4.83713
91 Aniline	1.26404	1.24049	1.21817	1.29444	1.25249	1.42027					
	1.31197						AVRG		1.28598		5.22129
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	61320	142247	272765	530664	1583457					
	4129583						QUAD	0.000e+000	1.57061	-0.04589	0.99755
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
103 Pyridine	0.96654 / 1.10003	1.00243	1.03459	1.05659	0.94727	1.10903	AVRG		1.03093		6.07107	

ARI Labs, Inc.

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188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.13650	1.15525	1.18137	1.24607	1.18572	1.33446						
	1.23338						AVRG		1.21039		5.55691	
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.31349	1.35101	1.39687	1.49855	1.44676	1.65114						
	1.55717						AVRG		1.45928		8.15461	
$ 5 2-Chlorophenol-d4	1.32069	1.30421	1.32440	1.42408	1.37122	1.57628						
	1.46848						AVRG		1.39848		7.05075	
$ 10 1,2-Dichlorobenzene-d4	1.02742	1.01323	0.98566	1.03213	0.98319	1.11494						
	1.06531						AVRG		1.03170		4.49300	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 18 Nitrobenzene-d5	0.40682	0.43694	0.46881	0.46109	0.45148	0.46339					
	0.44045						AVRG		0.44700		4.76457
$ 36 2-Fluorobiphenyl	1.74662	1.69572	1.71650	1.69561	1.68590	1.78039					
	1.80128						AVRG		1.73172		2.62113
$ 55 2,4,6-Tribromophenol	2793	7502	18231	45436	100361	244125					
	542414						QUAD	0.000e+000	5.22131	-0.58763	0.99964
$ 66 Terphenyl-d14	1.31967	1.36969	1.39867	1.41822	1.48115	1.48168					
	1.40758						AVRG		1.41095		4.11036
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
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Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 14:52
End Cal Date : 01-MAY-2023 18:46
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\ABN.m
Last Edit : 03-May-2023 14:03 deenayd

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09
FILENAME:	NT1005012302	NT1005012303	NT1005012304	NT1005012305	NT1005012306	NT1005012307	NT1005012308	NT1005012311	NT1005012312
INJ.DATE:	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023
INJ.TIME:	14:52	15:31	16:10	16:49	17:28	18:07	18:46	20:43	21:22

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.238	7.238	7.230	7.231	7.238	7.231	7.231	+++++	7.231	7.238	4.238-10.238	7.234	0.004
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.645	5.645-11.645	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.455	14.455-20.455	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.696	17.696-23.696	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.219	16.219-22.219	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.949	19.949-25.949	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.503	17.503-23.503	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.827	4.827-10.827	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.748	24.747	24.747	24.748	24.740	24.732	24.724	24.740	24.740	24.748	21.748-27.748	24.741	0.008
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.355	16.347	16.347	16.347	16.347	16.347	16.339	16.339	+++++	16.355	13.355-19.355	16.346	0.005
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	17.057	17.049	17.041	17.042	17.034	17.034	17.034	17.034	+++++	17.057	14.057-20.057	17.041	0.009
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
105	1-methylnaphthalene	13.662	13.654	13.654	13.655	13.654	13.655	13.647	13.647	+++++	13.662	10.662-16.662	13.654	0.005
151	1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152	Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153	Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
154	Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
155	Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
156	Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
157	Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
158	Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
159	4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
160	Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
161	1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162	1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163	1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164	1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165	1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166	Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167	2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2	Phenol-d5	8.830	8.822	8.822	8.815	8.814	8.815	8.815	+++++	8.814	8.830	5.830-11.830	8.818	0.006
3	Phenol	8.853	8.845	8.837	8.838	8.838	8.838	8.838	8.838	+++++	8.853	5.853-11.853	8.841	0.006
4	Bis(2-Chloroethyl)ethe	9.039	9.031	9.023	9.023	9.023	9.023	9.023	9.023	+++++	9.039	6.039-12.039	9.026	0.006
$ 5	2-Chlorophenol-d4	9.131	9.123	9.123	9.124	9.123	9.116	9.123	+++++	9.123	9.131	6.131-12.131	9.123	0.004

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	9.162	9.154	9.154	9.147	9.147	9.147	9.147	9.147	+++++	9.162	6.162-12.162	9.150	0.006
	7 1,3-Dichlorobenzene	9.433	9.433	9.433	9.425	9.433	9.425	9.425	9.425	+++++	9.433	6.433-12.433	9.429	0.004
*	8 1,4-Dichlorobenzene-d4	9.495	9.495	9.495	9.487	9.495	9.487	9.487	9.487	9.487	9.495	6.495-12.495	9.491	0.004
	9 1,4-Dichlorobenzene	9.526	9.526	9.526	9.526	9.526	9.518	9.518	9.518	+++++	9.526	6.526-12.526	9.523	0.004
$	10 1,2-Dichlorobenzene-d4	9.860	9.860	9.852	9.852	9.852	9.852	9.852	+++++	9.852	9.860	6.860-12.860	9.854	0.004
	11 Benzyl alcohol	9.759	9.751	9.751	9.751	9.751	9.751	9.751	9.751	+++++	9.759	6.759-12.759	9.752	0.003
	12 1,2-Dichlorobenzene	9.883	9.883	9.883	9.883	9.883	9.875	9.875	9.875	+++++	9.883	6.883-12.883	9.880	0.004
	13 2-Methylphenol	9.976	9.968	9.968	9.961	9.961	9.961	9.961	9.961	+++++	9.976	6.976-12.976	9.965	0.006
	14 2,2'-oxybis(1-Chloropr	10.062	10.054	10.054	10.054	10.054	10.046	10.046	10.054	+++++	10.062	7.062-13.062	10.053	0.005
	15 4-Methylphenol	10.248	10.240	10.232	10.232	10.232	10.225	10.232	10.233	+++++	10.248	7.248-13.248	10.234	0.007
	16 N-Nitroso-di-n-propyla	10.333	10.318	10.317	10.310	10.310	10.310	10.310	10.310	+++++	10.333	7.333-13.333	10.315	0.008
	17 Hexachloroethane	10.481	10.481	10.480	10.481	10.481	10.473	10.473	10.473	+++++	10.481	7.481-13.481	10.478	0.004
$	18 Nitrobenzene-d5	10.605	10.597	10.597	10.589	10.589	10.589	10.589	+++++	10.589	10.605	7.605-13.605	10.593	0.006
	19 Nitrobenzene	10.636	10.636	10.628	10.628	10.628	10.628	10.628	10.628	+++++	10.636	7.636-13.636	10.630	0.004
	20 Isophorone	11.094	11.078	11.070	11.071	11.070	11.071	11.063	11.071	+++++	11.094	8.094-14.094	11.073	0.009
	21 2-Nitrophenol	11.266	11.258	11.257	11.258	11.258	11.258	11.249	11.258	+++++	11.266	8.266-14.266	11.258	0.005
	22 2,4-Dimethylphenol	11.300	11.292	11.283	11.283	11.283	11.283	11.283	11.283	+++++	11.300	8.300-14.300	11.286	0.006
	23 Bis(2-Chloroethoxy)met	11.504	11.495	11.495	11.487	11.487	11.487	11.487	11.487	+++++	11.504	8.504-14.504	11.491	0.006
	24 Benzoic acid	11.631	11.555	11.487	11.436	11.402	11.377	11.360	11.428	+++++	11.631	8.631-14.631	11.459	0.093
	25 2,4-Dichlorophenol	11.716	11.707	11.707	11.708	11.699	11.699	11.699	11.699	+++++	11.716	8.716-14.716	11.704	0.006
	26 1,2,4-Trichlorobenzene	11.907	11.899	11.899	11.899	11.899	11.899	11.899	11.899	+++++	11.907	8.907-14.907	11.900	0.003
*	27 Naphthalene-d8	11.999	11.991	11.991	11.992	11.991	11.984	11.984	11.992	11.984	11.999	8.999-14.999	11.990	0.005
	28 Naphthalene	12.038	12.038	12.030	12.030	12.030	12.030	12.022	12.030	+++++	12.038	9.038-15.038	12.031	0.005
	29 4-Chloroaniline	12.161	12.153	12.153	12.154	12.153	12.146	12.146	12.146	+++++	12.161	9.161-15.161	12.152	0.005

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.385	12.385	12.385	12.385	12.385	12.385	12.378	12.385	+++++	12.385	9.385-15.385	12.384	0.003
	31 4-Chloro-3-methylpheno	13.105	13.097	13.097	13.097	13.097	13.090	13.090	13.090	+++++	13.105	10.105-16.105	13.095	0.005
	32 2-Methylnaphthalene	13.438	13.430	13.430	13.430	13.430	13.430	13.422	13.423	+++++	13.438	10.438-16.438	13.429	0.005
	33 Hexachlorocyclopentadi	13.895	13.894	13.894	13.895	13.894	13.895	13.887	13.887	+++++	13.895	10.895-16.895	13.892	0.004
	34 2,4,6-Trichlorophenol	14.057	14.049	14.049	14.042	14.041	14.042	14.041	14.042	+++++	14.057	11.057-17.057	14.045	0.006
	35 2,4,5-Trichlorophenol	14.127	14.119	14.119	14.119	14.111	14.111	14.111	14.111	+++++	14.127	11.127-17.127	14.116	0.006
$	36 2-Fluorobiphenyl	14.212	14.212	14.211	14.212	14.204	14.204	14.204	14.204	14.204	14.212	11.212-17.212	14.207	0.004
	37 2-Chloronaphthalene	14.436	14.436	14.428	14.429	14.428	14.428	14.421	14.429	+++++	14.436	11.436-17.436	14.429	0.005
	38 2-Nitroaniline	14.699	14.691	14.684	14.684	14.684	14.684	14.676	14.676	+++++	14.699	11.699-17.699	14.685	0.008
	39 Dimethylphthalate	15.125	15.117	15.109	15.110	15.109	15.102	15.102	15.102	+++++	15.125	12.125-18.125	15.110	0.008
	40 Acenaphthylene	15.319	15.311	15.311	15.311	15.303	15.303	15.303	15.303	+++++	15.319	12.319-18.319	15.308	0.006
	41 2,6-Dinitrotoluene	15.272	15.264	15.256	15.257	15.249	15.249	15.249	15.249	+++++	15.272	12.272-18.272	15.256	0.009
*	42 Acenaphthene-d10	15.628	15.620	15.620	15.620	15.620	15.620	15.613	15.620	15.620	15.628	12.628-18.628	15.620	0.004
	43 3-Nitroaniline	15.566	15.551	15.543	15.543	15.535	15.535	15.527	15.535	+++++	15.566	12.566-18.566	15.542	0.012
	44 Acenaphthene	15.698	15.690	15.690	15.690	15.690	15.682	15.682	15.682	+++++	15.698	12.698-18.698	15.688	0.005
	45 2,4-Dinitrophenol	15.783	15.759	15.759	15.752	15.752	15.744	15.744	15.744	+++++	15.783	12.783-18.783	15.755	0.013
	46 Dibenzofuran	16.030	16.022	16.014	16.015	16.014	16.015	16.007	16.007	+++++	16.030	13.030-19.030	16.015	0.008
	47 4-Nitrophenol	15.868	15.844	15.836	15.837	15.829	15.829	15.829	15.829	+++++	15.868	12.868-18.868	15.838	0.013
	48 2,4-Dinitrotoluene	16.092	16.076	16.068	16.069	16.061	16.061	16.061	16.061	+++++	16.092	13.092-19.092	16.069	0.011
	49 Fluorene	16.741	16.741	16.733	16.733	16.733	16.726	16.726	16.733	+++++	16.741	13.741-19.741	16.733	0.006
	50 Diethylphthalate	16.587	16.579	16.571	16.571	16.563	16.563	16.556	16.564	+++++	16.587	13.587-19.587	16.569	0.010
	51 4-Chlorophenyl-phenyle	16.718	16.718	16.718	16.710	16.710	16.710	16.702	16.710	+++++	16.718	13.718-19.718	16.712	0.005
	52 4-Nitroaniline	16.865	16.833	16.826	16.818	16.810	16.811	16.810	16.811	+++++	16.865	13.865-19.865	16.823	0.019
	53 4,6-Dinitro-2-methylph	16.942	16.926	16.910	16.911	16.903	16.903	16.903	16.903	+++++	16.942	13.942-19.942	16.913	0.014

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	16.980	16.972	16.964	16.965	16.957	16.957	16.957	16.957	+++++	16.980	13.980-19.980	16.964	0.009
$	55 2,4,6-Tribromophenol	17.281	17.273	17.273	17.273	17.265	17.265	17.265	17.266	17.265	17.281	14.281-20.281	17.270	0.006
	56 4-Bromophenyl-phenylet	17.728	17.728	17.728	17.728	17.728	17.720	17.713	17.720	+++++	17.728	14.728-20.728	17.724	0.006
	57 Hexachlorobenzene	18.060	18.052	18.052	18.053	18.053	18.045	18.045	18.045	+++++	18.060	15.060-21.060	18.051	0.005
	58 Pentachlorophenol	18.417	18.409	18.409	18.401	18.401	18.401	18.393	18.401	+++++	18.417	15.417-21.417	18.404	0.007
*	59 Phenanthrene-d10	18.687	18.679	18.679	18.680	18.680	18.680	18.672	18.672	18.672	18.687	15.687-21.687	18.678	0.005
	60 Phenanthrene	18.734	18.734	18.733	18.726	18.726	18.726	18.718	18.718	+++++	18.734	15.734-21.734	18.727	0.006
	61 Anthracene	18.827	18.826	18.826	18.819	18.819	18.819	18.811	18.819	+++++	18.827	15.827-21.827	18.821	0.005
	62 Carbazole	19.152	19.144	19.144	19.144	19.144	19.136	19.136	19.136	+++++	19.152	16.152-22.152	19.142	0.005
	63 Di-n-butylphthalate	19.918	19.910	19.909	19.910	19.910	19.910	19.902	19.902	+++++	19.918	16.918-22.918	19.909	0.005
	64 Fluoranthene	21.101	21.093	21.093	21.094	21.093	21.086	21.086	21.086	+++++	21.101	18.101-24.101	21.092	0.005
	65 Pyrene	21.527	21.519	21.519	21.519	21.511	21.511	21.504	21.511	+++++	21.527	18.527-24.527	21.515	0.007
$	66 Terphenyl-d14	21.790	21.790	21.790	21.790	21.782	21.782	21.774	21.782	21.782	21.790	18.790-24.790	21.785	0.005
	67 Butylbenzylphthalate	22.704	22.696	22.703	22.704	22.696	22.696	22.688	22.696	+++++	22.704	19.704-25.704	22.698	0.005
	68 Benzo(a)anthracene	23.679	23.671	23.671	23.671	23.664	23.656	23.656	23.664	+++++	23.679	20.679-26.679	23.667	0.008
*	69 Chrysene-d12	23.710	23.702	23.702	23.702	23.695	23.695	23.687	23.695	23.695	23.710	20.710-26.710	23.698	0.007
	70 3,3'-Dichlorobenzidine	23.633	23.625	23.617	23.617	23.617	23.610	23.602	23.617	+++++	23.633	20.633-26.633	23.617	0.009
	71 Chrysene	23.757	23.749	23.749	23.749	23.741	23.733	23.733	23.741	+++++	23.757	20.757-26.757	23.744	0.008
	72 bis(2-Ethylhexyl)phtha	23.710	23.710	23.718	23.718	23.710	23.702	23.702	23.710	+++++	23.710	20.710-26.710	23.710	0.006
	73 Di-n-octylphthalate	24.763	24.755	24.755	24.755	24.747	24.748	24.740	24.748	+++++	24.763	21.763-27.763	24.751	0.007
	74 Benzo(b)fluoranthene	25.700	25.700	25.692	25.692	25.676	25.669	25.661	25.684	+++++	25.700	22.700-28.700	25.684	0.014
	75 Benzo(k)fluoranthene	25.754	25.746	25.738	25.738	25.731	25.723	25.715	25.731	+++++	25.754	22.754-28.754	25.735	0.012
	187 Total Benzofluoranthen	25.754	25.746	25.692	25.692	25.731	25.669	25.661	25.684	+++++	25.754	22.754-28.754	25.704	0.035
	76 Benzo(a)pyrene	26.435	26.427	26.419	26.420	26.412	26.397	26.389	26.404	+++++	26.435	23.435-29.435	26.413	0.016

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	RT09	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	26.552	26.551	26.551	26.552	26.536	26.528	26.520	26.536	26.536	26.552	23.552-29.552	26.540	0.012
	78 Indeno(1,2,3-cd)pyrene	29.577	29.545	29.545	29.530	29.514	29.491	29.483	29.515	+++++	29.577	26.577-32.577	29.525	0.031
	79 Dibenzo(a,h)anthracene	29.584	29.561	29.545	29.546	29.530	29.507	29.491	29.522	+++++	29.584	26.584-32.584	29.536	0.030
	80 Benzo(g,h,i)perylene	30.462	30.431	30.423	30.416	30.400	30.377	30.353	30.392	+++++	30.462	27.462-33.462	30.407	0.034
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	5.091	5.091	5.075	5.068	5.083	5.075	5.083	5.068	+++++	5.091	2.091-8.091	5.079	0.009
	91 Aniline	8.954	8.946	8.946	8.938	8.946	8.938	8.938	+++++	+++++	8.954	5.954-11.954	8.944	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	21.326	21.318	21.318	21.318	21.318	21.310	21.310	21.310	+++++	21.326	18.326-24.326	21.316	0.005
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	5.099	5.098	5.098	5.099	5.122	5.122	5.145	5.099	+++++	5.099	2.099-8.099	5.110	0.018
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0101
Instrument: NT10
Calibration: GE00012

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLE0101-TUN1	NT1005052301.D	NA	05/05/23 10:04
Initial Cal Check	SLE0101-ICV1	NT1005052303.D	NA	05/05/23 11:37
ABN 0.5	SLE0101-LCV1	NT1005052304.D	NA	05/05/23 12:43
Blank	BLD0329-BLK1	NT1005052307.D	Solid	05/05/23 14:40
LCS	BLD0329-BS1	NT1005052308.D	Solid	05/05/23 15:18
LCS Dup	BLD0329-BSD1	NT1005052309.D	Solid	05/05/23 15:57
Reference	BLD0329-SRM1	NT1005052310.D	Solid	05/05/23 16:36
LDW23-SS1804	23D0136-01	NT1005052311.D	Solid	05/05/23 17:15
LDW23-SS1803	23D0136-03	NT1005052312.D	Solid	05/05/23 17:54
LDW23-SS1803	BLD0329-MS1	NT1005052313.D	Solid	05/05/23 18:32
LDW23-SS1803	BLD0329-MSD1	NT1005052314.D	Solid	05/05/23 19:11
Calibration Check	SLE0101-CCV1	NT1005052315.D	NA	05/05/23 19:50

ANALYSIS SEQUENCE

SLE0101

Instrument ID: NT10
Calibration ID: GE00012
MS EM Level: 1400 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L004747

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0101-TUN1	MS Tune	QC		1	L002618		05/05/2023 10:04	NT1005052301.D	DSD	
SLE0101-ICV1	Initial Cal Check	QC		2	K011109	K010831	05/05/2023 11:37	NT1005052303.D	VTS	
SLE0101-LCV1	ABN 0.5	QC		3	K011106	K010831	05/05/2023 12:43	NT1005052304.D	VTS	
BLD0329-BLK1	Blank	QC		4		K010831	05/05/2023 14:40	NT1005052307.D	VTS	
BLD0329-BS1	LCS	QC		5		K010831	05/05/2023 15:18	NT1005052308.D	VTS	
BLD0329-BSD1	LCS Dup	QC		6		K010831	05/05/2023 15:57	NT1005052309.D	VTS	
BLD0329-SRM1	Reference	QC		7		K010831	05/05/2023 16:36	NT1005052310.D	YZ	
23D0136-01	LDW23-SS1804	(20ug/kg solid or 0.2ug/L l	A 05	8		K010831	05/05/2023 17:15	NT1005052311.D	VTS	
23D0136-03	LDW23-SS1803	(20ug/kg solid or 0.2ug/L l	A 04	9		K010831	05/05/2023 17:54	NT1005052312.D	VTS	
BLD0329-MS1	Matrix Spike	QC		10		K010831	05/05/2023 18:32	NT1005052313.D	VTS	
BLD0329-MSD1	Matrix Spike Dup	QC		11		K010831	05/05/2023 19:11	NT1005052314.D	VTS	
SLE0101-CCV1	Calibration Check	QC		12	K011109	K010831	05/05/2023 19:50	NT1005052315.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230505.b

	Time	Filename	LabID	ClientId	DF																					
1	1004	NT1005052301.D	SLE0101-TUN1		1	|NO ISTDS FOUND||																			
2	1137	NT1005052303.D	SLE0101-ICV1		1	| 9.50	179464	12.00	621628	15.63	353112	18.68	694933	23.69	553967	26.53	482573	24.74	895601 |						
3	1243	NT1005052304.D	SLE0101-LCV1		1	| 9.50	201611	11.99	660968	15.62	363017	18.67	692839	23.69	576240	26.52	523576	24.72	812849 |						
4	1440	NT1005052307.D	BLD0329-BLK1		1	| 9.49	166260	11.98	624309	15.61	339232	18.66	627090	23.68	512752	26.52	443652	24.72	768100 |						
5	1518	NT1005052308.D	BLD0329-BS1		1	| 9.49	161608	11.99	558307	15.62	320442	18.67	569811	23.69	468254	26.53	408634	24.73	829477 |						
6	1557	NT1005052309.D	BLD0329-BSD1		1	| 9.49	158649	11.99	587151	15.61	327754	18.66	592173	23.69	488998	26.53	418013	24.73	841904 |						
7	1636	NT1005052310.D	BLD0329-SRM1		1	| 9.50	188282	11.99	642213	15.61	357166	18.66	676627	23.69	507125	24.72	937500	26.52	464638 |						
8	1715	NT1005052311.D	23D0136-01		1	| 9.50	165950	11.98	633949	15.61	344264	18.67	665495	23.69	482469	26.54	422532	24.74	944282 |						
9	1754	NT1005052312.D	23D0136-03		1	| 9.49	166481	11.99	638506	15.62	342307	18.67	618530	23.70	454352	26.55	390090	24.74	892773 |						
10	1832	NT1005052313.D	BLD0329-MS1		1	| 9.50	185292	11.99	705262	15.62	389417	18.68	686638	23.70	544347	26.55	439193	24.75	1055664 |						
11	1911	NT1005052314.D	BLD0329-MSD1		1	| 9.49	167995	11.99	606720	15.62	338935	18.67	596756	23.70	446464	26.55	377775	24.75	907671 |						
12	1950	NT1005052315.D	SLE0101-CCV1		1	| 9.50	186630	11.99	709610	15.62	399972	18.67	682308	23.69	499082	26.54	459767	24.73	1057621 |						

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230505.b

ARI Job No.: SLE0 Method: DFTPP8270E.m Instrument: nt10.i Date: 05-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1004	NT1005052301.D	SLE0101-TUN1		1	NO MANUAL INTEGRATION
1028	NT1005052302.D	SLE0098-SCV1		1	NO MANUAL INTEGRATION
1137	NT1005052303.D	SLE0101-ICV1		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1243	NT1005052304.D	SLE0101-LCV1		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),
1322	NT1005052305.D	SIM-ICV1		1	NO MANUAL INTEGRATION
1401	NT1005052306.D	SIM-LCV1		1	NO MANUAL INTEGRATION
1440	NT1005052307.D	BLD0329-BLK1		1	1,4-Dichlorobenzene-d4,
1518	NT1005052308.D	BLD0329-BS1		1	1,4-Dichlorobenzene-d4,
1557	NT1005052309.D	BLD0329-BSD1		1	1,4-Dichlorobenzene-d4,
1636	NT1005052310.D	BLD0329-SRM1		1	1,4-Dichlorobenzene-d4,
1715	NT1005052311.D	23D0136-01		1	1,4-Dichlorobenzene-d4,
1754	NT1005052312.D	23D0136-03		1	1,4-Dichlorobenzene-d4, Benzo(k)fluoranthene,
1832	NT1005052313.D	BLD0329-MS1		1	1,4-Dichlorobenzene-d4,
1911	NT1005052314.D	BLD0329-MSD1		1	1,4-Dichlorobenzene-d4,
1950	NT1005052315.D	SLE0101-CCV1		1	1,4-Dichlorobenzene-d4, 2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 08-May-2023 10:44

NT1005052301.D	Data Locked	deenayd, 08-
NT1005052302.D	Data Locked	deenayd, 08-
NT1005052303.D	Data Locked	deenayd, 08-
NT1005052304.D	Data Locked	deenayd, 08-
NT1005052305.D	Data Locked	deenayd, 08-
NT1005052306.D	Data Locked	deenayd, 08-
NT1005052307.D	Data Locked	deenayd, 08-
NT1005052308.D	Data Locked	deenayd, 08-
NT1005052309.D	Data Locked	deenayd, 08-
NT1005052310.D	Data Locked	deenayd, 08-
NT1005052311.D	Data Locked	deenayd, 08-
NT1005052312.D	Data Locked	deenayd, 08-
NT1005052313.D	Data Locked	deenayd, 08-
NT1005052314.D	Data Locked	deenayd, 08-
NT1005052315.D	Data Locked	deenayd, 08-

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0036	Instrument:	NT10
Calibration:	GE00012	Calibration Date:	05/01/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLE0036-SCV1 (Solid)			Lab File ID: NT1005012311.D			Analyzed: 05/01/23 20:43		
2-Fluorophenol	7.5000		80 - 120		7.233429	-7.2334	N/A	
Phenol-d5	7.5000		80 - 120		8.818429	-8.8184	N/A	
2-Chlorophenol-d4	7.5000		80 - 120		9.123	-9.1230	N/A	
1,2-Dichlorobenzene-d4	5.0000		80 - 120		9.853571	-9.8536	N/A	
Nitrobenzene-d5	5.0000		80 - 120		10.59329	-10.5933	N/A	
2-Fluorobiphenyl	5.0000	0.449	80 - 120	14.204	14.20771	-0.0037	N/A	
2,4,6-Tribromophenol	7.5000	0.189	80 - 120	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	5.0000	0.451	80 - 120	21.782	21.78486	-0.0029	N/A	
SLE0036-ICB1 (Solid)			Lab File ID: NT1005012312.D			Analyzed: 05/01/23 21:22		
2-Fluorophenol	7.5000	90.6	27 - 120	7.23	7.233429	-0.0034	N/A	
Phenol-d5	7.5000	91.0	29 - 120	8.814	8.818429	-0.0044	N/A	
2-Chlorophenol-d4	7.5000	88.8	31 - 120	9.123	9.123	0.0000	N/A	
1,2-Dichlorobenzene-d4	5.0000	89.5	32 - 120	9.851	9.853571	-0.0026	N/A	
Nitrobenzene-d5	5.0000	88.4	30 - 120	10.589	10.59329	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	85.5	35 - 120	14.203	14.20771	-0.0047	N/A	
2,4,6-Tribromophenol	7.5000	70.6	24 - 134	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	5.0000	86.7	37 - 120	21.782	21.78486	-0.0029	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0101	Instrument:	NT10
Calibration:	GE00012	Calibration Date:	05/01/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLE0101-ICV1 (Solid)			Lab File ID: NT1005052303.D			Analyzed: 05/05/23 11:37		
2-Fluorophenol	7.5000	92.1	80 - 120	7.253	7.233429	0.0196	N/A	
Phenol-d5	7.5000	96.1	80 - 120	8.83	8.818429	0.0116	N/A	
2-Chlorophenol-d4	7.5000	89.7	80 - 120	9.139	9.123	0.0160	N/A	
1,2-Dichlorobenzene-d4	5.0000	86.9	80 - 120	9.867	9.853571	0.0134	N/A	
Nitrobenzene-d5	5.0000	95.6	80 - 120	10.604	10.59329	0.0107	N/A	
2-Fluorobiphenyl	5.0000	90.8	80 - 120	14.211	14.20771	0.0033	N/A	
2,4,6-Tribromophenol	7.5000	85.6	80 - 120	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	5.0000	90.8	80 - 120	21.782	21.78486	-0.0029	N/A	
SLE0101-LCV1 (Solid)			Lab File ID: NT1005052304.D			Analyzed: 05/05/23 12:43		
2-Fluorophenol	0.75000	78.4	50 - 150	7.253	7.233429	0.0196	N/A	
Phenol-d5	0.75000	78.8	50 - 150	8.83	8.818429	0.0116	N/A	
2-Chlorophenol-d4	0.75000	78.2	50 - 150	9.131	9.123	0.0080	N/A	
1,2-Dichlorobenzene-d4	0.50000	84.6	50 - 150	9.867	9.853571	0.0134	N/A	
Nitrobenzene-d5	0.50000	83.1	50 - 150	10.597	10.59329	0.0037	N/A	
2-Fluorobiphenyl	0.50000	88.2	50 - 150	14.204	14.20771	-0.0037	N/A	
2,4,6-Tribromophenol	0.75000	58.0	50 - 150	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	0.50000	80.6	50 - 150	21.774	21.78486	-0.0109	N/A	
BLD0329-BLK1 (Solid)			Lab File ID: NT1005052307.D			Analyzed: 05/05/23 14:40		
2-Fluorophenol	750.00	38.7	27 - 120	7.238	7.233429	0.0046	N/A	
Phenol-d5	750.00	44.4	29 - 120	8.822	8.818429	0.0036	N/A	
2-Chlorophenol-d4	750.00	57.6	31 - 120	9.123	9.123	0.0000	N/A	
1,2-Dichlorobenzene-d4	500.00	63.5	32 - 120	9.851	9.853571	-0.0026	N/A	
Nitrobenzene-d5	500.00	64.9	30 - 120	10.589	10.59329	-0.0043	N/A	
2-Fluorobiphenyl	500.00	65.1	35 - 120	14.196	14.20771	-0.0117	N/A	
2,4,6-Tribromophenol	750.00	41.5	24 - 134	17.257	17.27029	-0.0133	N/A	
p-Terphenyl-d14	500.00	76.6	37 - 120	21.766	21.78486	-0.0189	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0101	Instrument:	NT10
Calibration:	GE00012	Calibration Date:	05/01/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0329-BS1 (Solid)			Lab File ID: NT1005052308.D			Analyzed: 05/05/23 15:18		
2-Fluorophenol	750.00	48.5	27 - 120	7.238	7.233429	0.0046	N/A	
Phenol-d5	750.00	50.5	29 - 120	8.821	8.818429	0.0026	N/A	
2-Chlorophenol-d4	750.00	59.1	31 - 120	9.123	9.123	0.0000	N/A	
1,2-Dichlorobenzene-d4	500.00	57.9	32 - 120	9.851	9.853571	-0.0026	N/A	
Nitrobenzene-d5	500.00	67.0	30 - 120	10.589	10.59329	-0.0043	N/A	
2-Fluorobiphenyl	500.00	63.4	35 - 120	14.203	14.20771	-0.0047	N/A	
2,4,6-Tribromophenol	750.00	65.4	24 - 134	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	500.00	75.5	37 - 120	21.774	21.78486	-0.0109	N/A	
BLD0329-BSD1 (Solid)			Lab File ID: NT1005052309.D			Analyzed: 05/05/23 15:57		
2-Fluorophenol	750.00	50.9	27 - 120	7.238	7.233429	0.0046	N/A	
Phenol-d5	750.00	57.2	29 - 120	8.821	8.818429	0.0026	N/A	
2-Chlorophenol-d4	750.00	69.1	31 - 120	9.123	9.123	0.0000	N/A	
1,2-Dichlorobenzene-d4	500.00	67.6	32 - 120	9.859	9.853571	0.0054	N/A	
Nitrobenzene-d5	500.00	73.8	30 - 120	10.589	10.59329	-0.0043	N/A	
2-Fluorobiphenyl	500.00	71.4	35 - 120	14.203	14.20771	-0.0047	N/A	
2,4,6-Tribromophenol	750.00	75.2	24 - 134	17.257	17.27029	-0.0133	N/A	
p-Terphenyl-d14	500.00	82.4	37 - 120	21.774	21.78486	-0.0109	N/A	
BLD0329-SRM1 (Solid)			Lab File ID: NT1005052310.D			Analyzed: 05/05/23 16:36		
2-Fluorophenol	7500.0	69.4	27 - 120	7.246	7.233429	0.0126	N/A	
Phenol-d5	7500.0	70.9	29 - 120	8.822	8.818429	0.0036	N/A	
2-Chlorophenol-d4	7500.0	79.3	31 - 120	9.123	9.123	0.0000	N/A	
1,2-Dichlorobenzene-d4	5000.0	74.9	32 - 120	9.859	9.853571	0.0054	N/A	
Nitrobenzene-d5	5000.0	86.9	30 - 120	10.589	10.59329	-0.0043	N/A	
2-Fluorobiphenyl	5000.0	83.9	35 - 120	14.204	14.20771	-0.0037	N/A	
2,4,6-Tribromophenol	7500.0	91.7	24 - 134	17.257	17.27029	-0.0133	N/A	
p-Terphenyl-d14	5000.0	93.0	37 - 120	21.774	21.78486	-0.0109	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0101
Instrument: NT10
Calibration: GE00012
Calibration Date: 05/01/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23D0136-01 (Solid)			Lab File ID: NT1005052311.D			Analyzed: 05/05/23 17:15		
2-Fluorophenol	749.17	51.2	27 - 120	7.246	7.233429	0.0126	N/A	
Phenol-d5	749.17	60.8	29 - 120	8.83	8.818429	0.0116	N/A	
2-Chlorophenol-d4	749.17	66.6	31 - 120	9.123	9.123	0.0000	N/A	
1,2-Dichlorobenzene-d4	499.45	62.0	32 - 120	9.852	9.853571	-0.0016	N/A	
Nitrobenzene-d5	499.45	71.2	30 - 120	10.589	10.59329	-0.0043	N/A	
2-Fluorobiphenyl	499.45	73.8	35 - 120	14.204	14.20771	-0.0037	N/A	
2,4,6-Tribromophenol	749.17	85.7	24 - 134	17.257	17.27029	-0.0133	N/A	
p-Terphenyl-d14	499.45	74.4	37 - 120	21.782	21.78486	-0.0029	N/A	
23D0136-03 (Solid)			Lab File ID: NT1005052312.D			Analyzed: 05/05/23 17:54		
2-Fluorophenol	749.61	73.9	27 - 120	7.246	7.233429	0.0126	N/A	
Phenol-d5	749.61	78.1	29 - 120	8.829	8.818429	0.0106	N/A	
2-Chlorophenol-d4	749.61	85.5	31 - 120	9.131	9.123	0.0080	N/A	
1,2-Dichlorobenzene-d4	499.74	73.5	32 - 120	9.859	9.853571	0.0054	N/A	
Nitrobenzene-d5	499.74	84.3	30 - 120	10.596	10.59329	0.0027	N/A	
2-Fluorobiphenyl	499.74	82.3	35 - 120	14.203	14.20771	-0.0047	N/A	
2,4,6-Tribromophenol	749.61	91.2	24 - 134	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	499.74	77.2	37 - 120	21.789	21.78486	0.0041	N/A	
BLD0329-MS1 (Solid)			Lab File ID: NT1005052313.D			Analyzed: 05/05/23 18:32		
2-Fluorophenol	749.94	47.8	27 - 120	7.246	7.233429	0.0126	N/A	
Phenol-d5	749.94	56.3	29 - 120	8.83	8.818429	0.0116	N/A	
2-Chlorophenol-d4	749.94	64.8	31 - 120	9.131	9.123	0.0080	N/A	
1,2-Dichlorobenzene-d4	499.96	59.1	32 - 120	9.859	9.853571	0.0054	N/A	
Nitrobenzene-d5	499.96	68.0	30 - 120	10.597	10.59329	0.0037	N/A	
2-Fluorobiphenyl	499.96	66.0	35 - 120	14.204	14.20771	-0.0037	N/A	
2,4,6-Tribromophenol	749.94	73.4	24 - 134	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	499.96	59.7	37 - 120	21.782	21.78486	-0.0029	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0101	Instrument:	NT10
Calibration:	GE00012	Calibration Date:	05/01/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0329-MSD1 (Solid)			Lab File ID: NT1005052314.D			Analyzed: 05/05/23 19:11		
2-Fluorophenol	749.94	41.1	27 - 120	7.245	7.233429	0.0116	N/A	
Phenol-d5	749.94	51.4	29 - 120	8.829	8.818429	0.0106	N/A	
2-Chlorophenol-d4	749.94	64.2	31 - 120	9.13	9.123	0.0070	N/A	
1,2-Dichlorobenzene-d4	499.96	59.1	32 - 120	9.859	9.853571	0.0054	N/A	
Nitrobenzene-d5	499.96	70.8	30 - 120	10.596	10.59329	0.0027	N/A	
2-Fluorobiphenyl	499.96	71.8	35 - 120	14.203	14.20771	-0.0047	N/A	
2,4,6-Tribromophenol	749.94	77.1	24 - 134	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	499.96	67.8	37 - 120	21.781	21.78486	-0.0039	N/A	
SLE0101-CCV1 (Solid)			Lab File ID: NT1005052315.D			Analyzed: 05/05/23 19:50		
2-Fluorophenol	7.5000	97.6	50 - 150	7.246	7.233429	0.0126	N/A	
Phenol-d5	7.5000	106	50 - 150	8.83	8.818429	0.0116	N/A	
2-Chlorophenol-d4	7.5000	103	50 - 150	9.131	9.123	0.0080	N/A	
1,2-Dichlorobenzene-d4	5.0000	97.5	50 - 150	9.859	9.853571	0.0054	N/A	
Nitrobenzene-d5	5.0000	104	50 - 150	10.597	10.59329	0.0037	N/A	
2-Fluorobiphenyl	5.0000	90.6	50 - 150	14.204	14.20771	-0.0037	N/A	
2,4,6-Tribromophenol	7.5000	86.8	50 - 150	17.265	17.27029	-0.0053	N/A	
p-Terphenyl-d14	5.0000	86.2	50 - 150	21.782	21.78486	-0.0029	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0036	Instrument:	NT10
		Calibration:	GE00012

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLE0036-SCV1)		(Solid)		Lab File ID: NT1005012311.D				Analyzed: 05/01/23 20:43	
1,4-Dichlorobenzene-d4	128837	9.487	144303	9.494	89	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	469135	11.991	493698	11.991	95	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	260867	15.62	279210	15.619	93	50 - 200	0.001	+/-0.50	
Phenanthrene-d10	479585	18.671	521463	18.679	92	50 - 200	-0.008	+/-0.50	
Chrysene-d12	366214	23.694	369911	23.702	99	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	633915	24.739	626668	24.747	101	50 - 200	-0.008	+/-0.50	
Perylene-d12	326407	26.536	311339	26.551	105	50 - 200	-0.015	+/-0.50	
Initial Cal Blank (SLE0036-ICB1)		(Solid)		Lab File ID: NT1005012312.D				Analyzed: 05/01/23 21:22	
1,4-Dichlorobenzene-d4	149952	9.487	144303	9.494	104	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	548897	11.983	493698	11.991	111	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	293264	15.62	279210	15.619	105	50 - 200	0.001	+/-0.50	
Phenanthrene-d10	524738	18.671	521463	18.679	101	50 - 200	-0.008	+/-0.50	
Chrysene-d12	405166	23.694	369911	23.702	110	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	599674	24.739	626668	24.747	96	50 - 200	-0.008	+/-0.50	
Perylene-d12	379142	26.535	311339	26.551	122	50 - 200	-0.016	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0101	Instrument:	NT10
		Calibration:	GE00012

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLE0101-ICV1)		(Solid)	Lab File ID: NT1005052303.D				Analyzed: 05/05/23 11:37		
1,4-Dichlorobenzene-d4	179464	9.502	179464	9.502	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	621628	11.999	621628	11.999	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	353112	15.628	353112	15.628	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	694933	18.679	694933	18.679	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	553967	23.694	553967	23.694	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	895601	24.739	895601	24.739	100	50 - 200	0.000	+/-0.50	
Perylene-d12	482573	26.528	482573	26.528	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLE0101-LCV1)		(Solid)	Lab File ID: NT1005052304.D				Analyzed: 05/05/23 12:43		
1,4-Dichlorobenzene-d4	201611	9.502	179464	9.502	112	50 - 200	0.000	+/-0.50	
Naphthalene-d8	660968	11.991	621628	11.999	106	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	363017	15.62	353112	15.628	103	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	692839	18.671	694933	18.679	100	50 - 200	-0.008	+/-0.50	
Chrysene-d12	576240	23.686	553967	23.694	104	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	812849	24.724	895601	24.739	91	50 - 200	-0.015	+/-0.50	
Perylene-d12	523576	26.52	482573	26.528	108	50 - 200	-0.008	+/-0.50	
Blank (BLD0329-BLK1)		(Solid)	Lab File ID: NT1005052307.D				Analyzed: 05/05/23 14:40		
1,4-Dichlorobenzene-d4	166260	9.494	179464	9.502	93	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	624309	11.983	621628	11.999	100	50 - 200	-0.016	+/-0.50	
Acenaphthene-d10	339232	15.612	353112	15.628	96	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	627090	18.664	694933	18.679	90	50 - 200	-0.015	+/-0.50	
Chrysene-d12	512752	23.679	553967	23.694	93	50 - 200	-0.015	+/-0.50	
Di-n-Octylphthalate-d4	768100	24.724	895601	24.739	86	50 - 200	-0.015	+/-0.50	
Perylene-d12	443652	26.52	482573	26.528	92	50 - 200	-0.008	+/-0.50	
LCS (BLD0329-BS1)		(Solid)	Lab File ID: NT1005052308.D				Analyzed: 05/05/23 15:18		
1,4-Dichlorobenzene-d4	161608	9.494	179464	9.502	90	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	558307	11.991	621628	11.999	90	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	320442	15.62	353112	15.628	91	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	569811	18.671	694933	18.679	82	50 - 200	-0.008	+/-0.50	
Chrysene-d12	468254	23.686	553967	23.694	85	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	829477	24.731	895601	24.739	93	50 - 200	-0.008	+/-0.50	
Perylene-d12	408634	26.527	482573	26.528	85	50 - 200	-0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0101	Instrument:	NT10
		Calibration:	GE00012

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (BLD0329-BSD1)		(Solid)		Lab File ID: NT1005052309.D				Analyzed: 05/05/23 15:57	
1,4-Dichlorobenzene-d4	158649	9.494	179464	9.502	88	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	587151	11.991	621628	11.999	94	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	327754	15.612	353112	15.628	93	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	592173	18.663	694933	18.679	85	50 - 200	-0.016	+/-0.50	
Chrysene-d12	488998	23.694	553967	23.694	88	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	841904	24.731	895601	24.739	94	50 - 200	-0.008	+/-0.50	
Perylene-d12	418013	26.527	482573	26.528	87	50 - 200	-0.001	+/-0.50	
Reference (BLD0329-SRM1)		(Solid)		Lab File ID: NT1005052310.D				Analyzed: 05/05/23 16:36	
1,4-Dichlorobenzene-d4	188282	9.495	179464	9.502	105	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	642213	11.991	621628	11.999	103	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	357166	15.612	353112	15.628	101	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	676627	18.664	694933	18.679	97	50 - 200	-0.015	+/-0.50	
Chrysene-d12	507125	23.687	553967	23.694	92	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	937500	24.724	895601	24.739	105	50 - 200	-0.015	+/-0.50	
Perylene-d12	464638	26.52	482573	26.528	96	50 - 200	-0.008	+/-0.50	
LDW23-SS1804 (23D0136-01)		(Solid)		Lab File ID: NT1005052311.D				Analyzed: 05/05/23 17:15	
1,4-Dichlorobenzene-d4	165950	9.495	179464	9.502	92	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	633949	11.983	621628	11.999	102	50 - 200	-0.016	+/-0.50	
Acenaphthene-d10	344264	15.612	353112	15.628	97	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	665495	18.671	694933	18.679	96	50 - 200	-0.008	+/-0.50	
Chrysene-d12	482469	23.694	553967	23.694	87	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	944282	24.739	895601	24.739	105	50 - 200	0.000	+/-0.50	
Perylene-d12	422532	26.543	482573	26.528	88	50 - 200	0.015	+/-0.50	
LDW23-SS1803 (23D0136-03)		(Solid)		Lab File ID: NT1005052312.D				Analyzed: 05/05/23 17:54	
1,4-Dichlorobenzene-d4	166481	9.494	179464	9.502	93	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	638506	11.991	621628	11.999	103	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	342307	15.62	353112	15.628	97	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	618530	18.671	694933	18.679	89	50 - 200	-0.008	+/-0.50	
Chrysene-d12	454352	23.702	553967	23.694	82	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	892773	24.739	895601	24.739	100	50 - 200	0.000	+/-0.50	
Perylene-d12	390090	26.551	482573	26.528	81	50 - 200	0.023	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0101	Instrument:	NT10
		Calibration:	GE00012

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (BLD0329-MS1)		(Solid)		Lab File ID: NT1005052313.D				Analyzed: 05/05/23 18:32	
1,4-Dichlorobenzene-d4	185292	9.495	179464	9.502	103	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	705262	11.991	621628	11.999	113	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	389417	15.62	353112	15.628	110	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	686638	18.679	694933	18.679	99	50 - 200	0.000	+/-0.50	
Chrysene-d12	544347	23.702	553967	23.694	98	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1055664	24.747	895601	24.739	118	50 - 200	0.008	+/-0.50	
Perylene-d12	439193	26.551	482573	26.528	91	50 - 200	0.023	+/-0.50	
Matrix Spike Dup (BLD0329-MSD1)		(Solid)		Lab File ID: NT1005052314.D				Analyzed: 05/05/23 19:11	
1,4-Dichlorobenzene-d4	167995	9.494	179464	9.502	94	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	606720	11.991	621628	11.999	98	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	338935	15.62	353112	15.628	96	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	596756	18.671	694933	18.679	86	50 - 200	-0.008	+/-0.50	
Chrysene-d12	446464	23.702	553967	23.694	81	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	907671	24.747	895601	24.739	101	50 - 200	0.008	+/-0.50	
Perylene-d12	377775	26.551	482573	26.528	78	50 - 200	0.023	+/-0.50	
Calibration Check (SLE0101-CCV1)		(Solid)		Lab File ID: NT1005052315.D				Analyzed: 05/05/23 19:50	
1,4-Dichlorobenzene-d4	186630	9.495	179464	9.502	104	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	709610	11.991	621628	11.999	114	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	399972	15.62	353112	15.628	113	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	682308	18.672	694933	18.679	98	50 - 200	-0.007	+/-0.50	
Chrysene-d12	499082	23.694	553967	23.694	90	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	1057621	24.732	895601	24.739	118	50 - 200	-0.007	+/-0.50	
Perylene-d12	459767	26.536	482573	26.528	95	50 - 200	0.008	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 17:15	17	40	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 17:54	17	40	
Matrix Spike BLD0329-MS1	04/05/23 16:05	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 18:32	17	40	
Matrix Spike Dup BLD0329-MSD1	04/05/23 16:05	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 19:11	17	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
Phenol	4.4	20.0	ug/kg
4-Methylphenol	7.4	20.0	ug/kg
Naphthalene	4.2	20.0	ug/kg
2-Methylnaphthalene	4.5	20.0	ug/kg
Acenaphthylene	6.2	20.0	ug/kg
Dimethylphthalate	4.4	20.0	ug/kg
Acenaphthene	5.2	20.0	ug/kg
Dibenzofuran	14.1	20.0	ug/kg
Fluorene	14.6	20.0	ug/kg
Phenanthrene	8.7	20.0	ug/kg
Anthracene	7.2	20.0	ug/kg
Fluoranthene	6.1	20.0	ug/kg
Pyrene	5.7	20.0	ug/kg
Butylbenzylphthalate	9.4	20.0	ug/kg
Benzo(a)anthracene	6.0	20.0	ug/kg
Chrysene	6.1	20.0	ug/kg
bis(2-Ethylhexyl)phthalate	14.1	50.0	ug/kg
Benzofluoranthenes, Total	21.0	40.0	ug/kg
Benzo(a)pyrene	4.2	20.0	ug/kg
Indeno(1,2,3-cd)pyrene	14.7	20.0	ug/kg
Dibenzo(a,h)anthracene	17.2	20.0	ug/kg
Benzo(g,h,i)perylene	13.6	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Triphenyl phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bFH 502 I

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0214339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

H000691

Data File: \\target\share\chem2\fid4a.i\20230317.b\423C1703.D

Page 1

Date : 17-MAR-2023 10:46

Client ID:

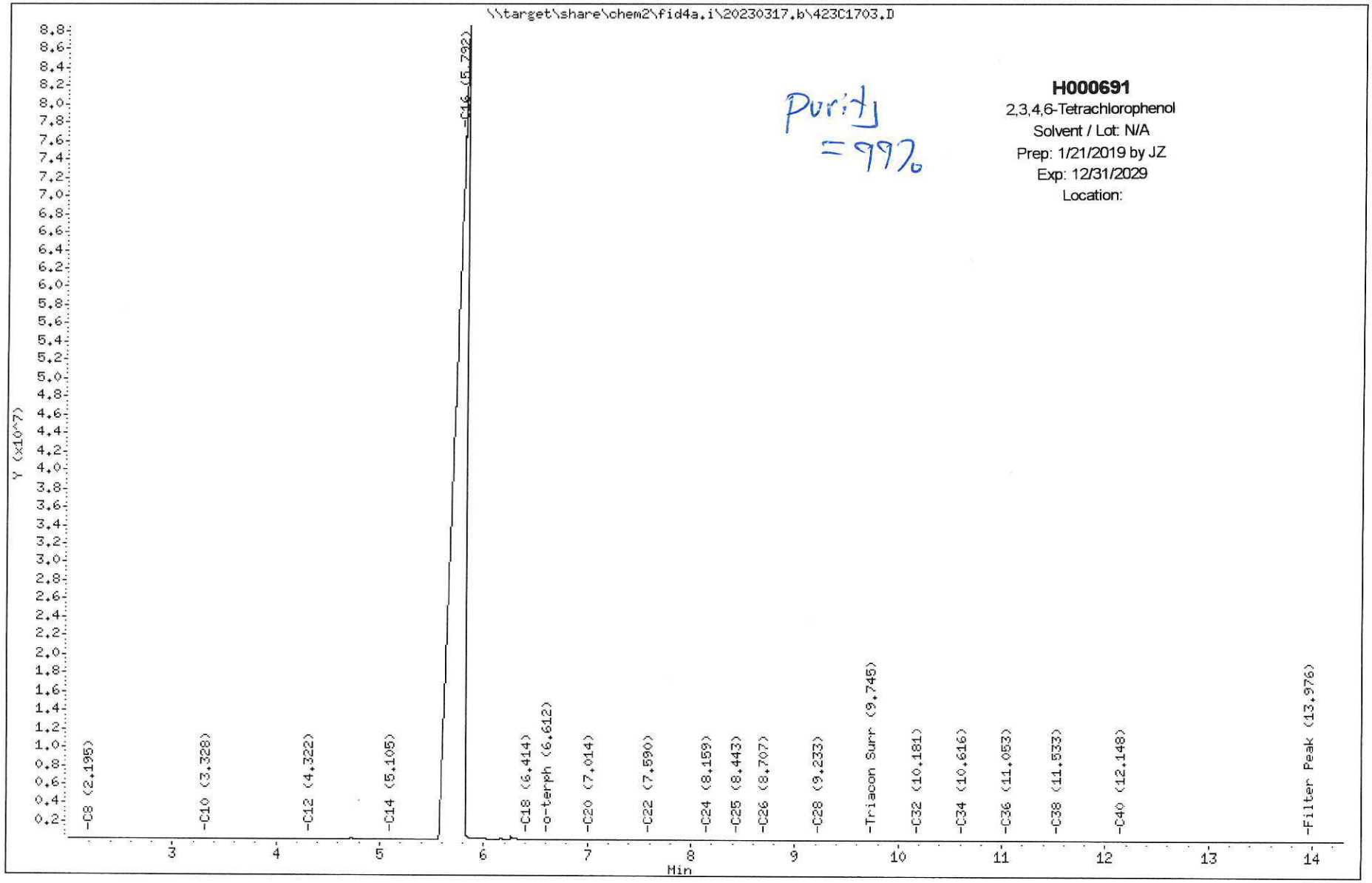
Instrument: fid4a.i

Sample Info: K007226

Operator: AA

Column phase: RTX-1

Column diameter: 0.25



Purity = 99%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

23D0136 CLPLIKE (Rev0) - Page 1420 of 4865

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
Lab Smp Id: K007226
Inj Date : 17-MAR-2023 10:46
Operator : AA Inst ID: fid4a.i
Smp Info : K007226
Misc Info :
Comment   :
Method   : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%
Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: tph.sub
Target Version: 4.14
Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.043	81395	55677	0.684	0.012	1 Toluene
2.074	68503	39991	0.584	0.010	
2.104	85451	37158	0.435	0.012	
2.146	59381	25207	0.424	0.008	
2.181	11414	22862	2.003	0.001	
2.195	34939	23199	0.664	0.005	2 C8
2.218	8679	21808	2.513	0.001	
2.224	21070	21832	1.036	0.003	
2.243	45086	20191	0.448	0.006	
2.286	3130	15677	5.009	0.000	
2.291	12615	15880	1.259	0.001	
2.313	20979	15888	0.757	0.003	
2.333	7621	15373	2.017	0.001	
2.348	31874	17112	0.537	0.004	
2.373	4619	13267	2.872	0.000	
2.380	12003	13446	1.120	0.001	
2.393	10327	13347	1.292	0.001	
2.408	9963	12697	1.274	0.001	
2.446	24366	11882	0.488	0.003	
2.498	24898	10214	0.410	0.003	
2.557	1592	6395	4.017	0.000	
2.570	4427	6384	1.442	0.000	
2.583	4275	6215	1.454	0.000	
2.595	1208	6068	5.024	0.000	
2.602	3076	6230	2.025	0.000	
2.607	1560	6270	4.019	0.000	
2.631	17195	8933	0.520	0.002	
2.654	17386	7637	0.439	0.002	
2.703	4531	5468	1.207	0.000	
2.717	9156	5741	0.627	0.001	
2.740	3955	5045	1.275	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.768	1029	4134	4.017	0.000	
2.771	830	4189	5.050	0.000	
2.778	1924	4438	2.307	0.000	
2.784	5498	4564	0.830	0.000	
2.846	25970	8400	0.323	0.003	
2.880	939	3165	3.370	0.000	
2.884	1885	3183	1.688	0.000	
2.901	4805	3504	0.729	0.000	
2.938	581	1990	3.423	0.000	
2.944	1450	2016	1.390	0.000	
2.955	449	1816	4.043	0.000	
2.967	1234	2009	1.629	0.000	
2.982	712	2087	2.931	0.000	
2.988	1000	2338	2.337	0.000	
3.001	3475	3541	1.019	0.000	
3.018	3528	3705	1.050	0.000	
3.033	983	2521	2.564	0.000	
3.038	1297	2686	2.070	0.000	
3.044	2547	2541	0.997	0.000	
3.069	389	1330	3.418	0.000	
3.078	728	1545	2.123	0.000	
3.085	1244	1637	1.316	0.000	
3.098	1115	1624	1.457	0.000	
3.108	926	1475	1.593	0.000	
3.119	239	1202	5.036	0.000	
3.125	540	1251	2.315	0.000	
3.133	409	1219	2.978	0.000	
3.144	2600	1886	0.725	0.000	
3.165	620	1604	2.588	0.000	
3.173	554	1647	2.972	0.000	
3.192	2423	2273	0.938	0.000	
3.197	582	2418	4.158	0.000	
3.204	1161	2723	2.346	0.000	
3.208	825	2777	3.364	0.000	
3.228	4472	3391	0.758	0.000	
3.246	1586	2676	1.688	0.000	
3.279	1194	2070	1.734	0.000	
3.293	854	1951	2.285	0.000	
3.298	595	2029	3.408	0.000	
3.315	2640	2597	0.984	0.000	
3.320	1015	2542	2.504	0.000	
3.328	1549	2593	1.674	0.000	3 C10
3.338	1314	2533	1.928	0.000	
3.350	523	2159	4.130	0.000	
3.358	1776	2105	1.185	0.000	
3.371	356	1797	5.043	0.000	
3.378	914	1880	2.057	0.000	
3.383	380	1927	5.068	0.000	
3.387	595	2023	3.399	0.000	
3.395	1390	2270	1.633	0.000	
3.405	1490	1994	1.338	0.000	
3.423	690	1601	2.321	0.000	
3.435	821	1554	1.894	0.000	
3.441	387	1583	4.087	0.000	
3.444	401	1625	4.051	0.000	
3.448	403	1636	4.060	0.000	
3.455	1216	1700	1.398	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.478	235	1185	5.047	0.000	
3.482	412	1229	2.986	0.000	
3.488	695	1177	1.694	0.000	
3.501	239	969	4.063	0.000	
3.509	914	1149	1.258	0.000	
3.520	1078	1069	0.992	0.000	
3.540	301	927	3.079	0.000	
3.556	406	849	2.089	0.000	
3.567	370	873	2.359	0.000	
3.572	178	939	5.270	0.000	
3.578	591	1171	1.981	0.000	
3.591	869	1353	1.556	0.000	
3.596	741	1352	1.826	0.000	
3.606	471	1401	2.976	0.000	
3.613	548	1411	2.577	0.000	
3.618	433	1521	3.511	0.000	
3.625	710	1635	2.303	0.000	
3.630	910	1667	1.832	0.000	
3.652	661	1562	2.362	0.000	
3.670	462	1214	2.627	0.000	
3.686	1036	1453	1.403	0.000	
3.690	829	1374	1.658	0.000	
3.702	531	1191	2.241	0.000	
3.712	452	1355	3.001	0.000	
3.716	820	1423	1.736	0.000	
3.736	2685	2093	0.780	0.000	
3.752	689	2030	2.946	0.000	
3.760	4109	2349	0.572	0.000	
3.805	3183	2036	0.640	0.000	
3.823	496	1686	3.401	0.000	
3.835	1641	2314	1.410	0.000	
3.859	9243	4616	0.499	0.001	
3.897	851	1745	2.051	0.000	
3.904	503	1721	3.419	0.000	
3.927	3866	3293	0.852	0.000	
3.941	5520	3558	0.645	0.000	
3.980	573	1715	2.991	0.000	
3.992	1027	1794	1.748	0.000	
3.995	1494	1860	1.245	0.000	
4.010	887	1639	1.847	0.000	
4.021	663	1724	2.602	0.000	
4.026	1380	1776	1.287	0.000	
4.045	306	1546	5.059	0.000	
4.053	1001	1758	1.757	0.000	
4.061	1137	1804	1.586	0.000	
4.072	779	1773	2.275	0.000	
4.080	989	1896	1.917	0.000	
4.087	561	1905	3.396	0.000	
4.098	1956	2156	1.103	0.000	
4.106	1168	2044	1.750	0.000	
4.127	1049	1627	1.551	0.000	
4.142	587	1545	2.633	0.000	
4.148	1155	1572	1.361	0.000	
4.173	3682	2398	0.651	0.000	
4.189	1023	1738	1.700	0.000	
4.204	549	1627	2.961	0.000	
4.213	628	1658	2.641	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	1039	1830	1.761	0.000	
4.227	447	1814	4.058	0.000	
4.248	2703	2638	0.976	0.000	
4.256	1387	2945	2.123	0.000	
4.260	743	2988	4.022	0.000	
4.265	912	3081	3.378	0.000	
4.268	779	3140	4.031	0.000	
4.275	1736	3217	1.853	0.000	
4.289	2688	3495	1.300	0.000	
4.295	3466	3448	0.995	0.000	
4.322	1054	2680	2.543	0.000	4 C12
4.330	1686	2627	1.558	0.000	
4.358	1066	1974	1.852	0.000	
4.378	434	1758	4.054	0.000	
4.384	1324	1879	1.419	0.000	
4.403	860	1608	1.869	0.000	
4.414	457	1567	3.431	0.000	
4.421	1117	1675	1.499	0.000	
4.433	910	1538	1.690	0.000	
4.439	865	1534	1.774	0.000	
4.449	764	1302	1.705	0.000	
4.471	433	1123	2.593	0.000	
4.476	734	1135	1.546	0.000	
4.490	385	1005	2.610	0.000	
4.498	555	1186	2.137	0.000	
4.502	695	1166	1.677	0.000	
4.518	587	949	1.618	0.000	
4.526	316	925	2.924	0.000	
4.533	560	989	1.765	0.000	
4.543	469	1001	2.135	0.000	
4.548	222	916	4.130	0.000	
4.553	188	980	5.207	0.000	
4.558	255	1038	4.076	0.000	
4.568	652	1157	1.775	0.000	
4.573	338	1151	3.409	0.000	
4.580	487	1283	2.636	0.000	
4.596	3801	1950	0.513	0.000	
4.631	531	1429	2.692	0.000	
4.663	4548	3737	0.822	0.000	
4.667	2815	3822	1.358	0.000	
4.679	2199	3760	1.710	0.000	
4.688	1068	3585	3.356	0.000	
4.694	2166	3742	1.727	0.000	
4.723	372603	172476	0.463	0.055	
4.894	47034	21828	0.464	0.006	
4.956	80510	28154	0.350	0.011	
4.999	54273	16950	0.312	0.008	
5.068	1137	5713	5.027	0.000	
5.072	8415	5792	0.688	0.001	
5.105	4203	4316	1.027	0.000	5 C14
5.146	660	2685	4.070	0.000	
5.153	2524	2649	1.050	0.000	
5.170	1076	2437	2.265	0.000	
5.174	2371	2438	1.028	0.000	
5.201	1013	2011	1.986	0.000	
5.210	2064	2332	1.130	0.000	
5.224	1083	2304	2.127	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.228	2027	2354	1.162	0.000	
5.276	4673	2682	0.574	0.000	
5.322	195	844	4.328	0.000	
5.331	977	1203	1.231	0.000	
5.356	490	993	2.027	0.000	
5.361	814	1044	1.283	0.000	
5.382	115	387	3.351	0.000	
5.399	619	960	1.551	0.000	
5.406	402	1035	2.576	0.000	
5.410	378	1122	2.968	0.000	
5.423	1663	1555	0.935	0.000	
5.452	5951	5020	0.844	0.000	
5.501	290	797	2.753	0.000	
5.523	2317	2472	1.067	0.000	
5.538	5946	6823	1.147	0.000	
5.792	501855376	76456669	0.152	74.449	6 C16
5.807	79757019	82319946	1.032	11.775	
5.823	77929961	88539160	1.136	11.505	
5.962	75333	84828	1.126	0.011	
5.986	474748	124326	0.262	0.070	
6.070	17103	57180	3.343	0.002	
6.074	120761	57565	0.477	0.017	
6.113	90233	47140	0.522	0.013	
6.165	407438	218439	0.536	0.060	
6.263	944101	374166	0.396	0.139	
6.414	114839	39498	0.344	0.016	7 C18
6.464	53190	31177	0.586	0.007	
6.523	31509	25870	0.821	0.004	
6.551	4785	23963	5.008	0.000	
6.559	51194	25409	0.496	0.007	
6.590	21354	21666	1.015	0.003	
6.612	35061	21127	0.603	0.005	$ 8 o-terph
6.638	17712	19934	1.125	0.002	
6.672	22159	19651	0.887	0.003	
6.683	26846	19268	0.718	0.003	
6.708	5413	18142	3.351	0.000	
6.713	24941	18247	0.732	0.003	
6.747	50657	18478	0.365	0.007	
6.795	23973	17444	0.728	0.003	
6.814	28457	17895	0.629	0.004	
6.837	10746	15445	1.437	0.001	
6.871	29974	21406	0.714	0.004	
6.874	4287	21471	5.009	0.000	
6.882	20520	21675	1.056	0.003	
6.944	32864	17445	0.531	0.004	
6.978	9138	15347	1.679	0.001	
7.014	4130	13830	3.348	0.000	9 C20
7.025	12567	14083	1.121	0.001	
7.038	4952	14274	2.882	0.000	
7.044	6508	14578	2.240	0.000	
7.050	25344	14736	0.581	0.003	
7.099	5531	12365	2.236	0.000	
7.108	16440	12371	0.752	0.002	
7.129	9415	11275	1.198	0.001	
7.175	3589	10327	2.878	0.000	
7.182	7285	10474	1.438	0.001	
7.212	11252	10002	0.889	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.227	5193	9506	1.830	0.000	
7.237	5172	9476	1.832	0.000	
7.247	4652	9357	2.011	0.000	
7.254	3258	9369	2.875	0.000	
7.259	7003	9455	1.350	0.001	
7.272	5540	9252	1.670	0.000	
7.283	4511	9087	2.014	0.000	
7.296	5828	9031	1.550	0.000	
7.308	4850	8866	1.828	0.000	
7.318	3111	9014	2.897	0.000	
7.324	3191	9168	2.873	0.000	
7.328	2775	9325	3.360	0.000	
7.339	6190	9713	1.569	0.000	
7.344	2920	9761	3.343	0.000	
7.350	17091	9874	0.578	0.002	
7.379	7217	8616	1.194	0.001	
7.395	5430	8408	1.548	0.000	
7.404	2492	8342	3.348	0.000	
7.409	1666	8354	5.014	0.000	
7.415	2955	8500	2.877	0.000	
7.423	3887	8782	2.259	0.000	
7.465	28160	14253	0.506	0.004	
7.471	6466	14499	2.242	0.000	
7.480	6649	15111	2.273	0.000	
7.484	26595	15197	0.571	0.003	
7.514	13964	13621	0.975	0.002	
7.539	8118	12614	1.554	0.001	
7.553	10540	12495	1.185	0.001	
7.584	2820	11307	4.010	0.000	
7.590	4522	11429	2.527	0.000	10 C22
7.620	16634	10435	0.627	0.002	
7.653	6793	9783	1.440	0.001	
7.663	8606	9666	1.123	0.001	
7.675	2827	9464	3.347	0.000	
7.683	9373	9620	1.026	0.001	
7.699	3657	9205	2.517	0.000	
7.708	5071	9290	1.832	0.000	
7.713	10483	9274	0.885	0.001	
7.735	10686	9257	0.866	0.001	
7.752	4732	8664	1.831	0.000	
7.765	5624	8765	1.558	0.000	
7.773	5614	8686	1.547	0.000	
7.784	3375	8506	2.520	0.000	
7.793	2118	8517	4.021	0.000	
7.799	10086	8544	0.847	0.001	
7.817	7761	8325	1.073	0.001	
7.833	2415	8088	3.350	0.000	
7.838	2838	8160	2.875	0.000	
7.844	3649	8173	2.240	0.000	
7.858	2009	8069	4.017	0.000	
7.864	4482	8197	1.829	0.000	
7.871	3688	8223	2.230	0.000	
7.879	4875	8269	1.696	0.000	
7.889	2009	8061	4.013	0.000	
7.897	4080	8308	2.036	0.000	
7.916	17828	10103	0.567	0.002	
7.935	4052	9086	2.242	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	2229	8948	4.015	0.000	
7.945	5765	8973	1.556	0.000	
7.954	6458	8765	1.357	0.000	
7.976	2099	8428	4.016	0.000	
7.984	10213	8807	0.862	0.001	
7.999	4897	8282	1.691	0.000	
8.013	8782	8112	0.924	0.001	
8.028	5860	7858	1.341	0.000	
8.040	3929	7871	2.003	0.000	
8.054	9161	8146	0.889	0.001	
8.067	2701	7766	2.876	0.000	
8.074	3069	7702	2.510	0.000	
8.081	2694	7742	2.874	0.000	
8.088	2705	7793	2.881	0.000	
8.095	5842	7832	1.341	0.000	
8.104	5419	7841	1.447	0.000	
8.119	5740	7735	1.348	0.000	
8.134	4986	7768	1.558	0.000	
8.141	5893	8009	1.359	0.000	
8.159	9098	8027	0.882	0.001	11 C24
8.174	3156	7971	2.526	0.000	
8.185	2376	7967	3.353	0.000	
8.190	4739	7937	1.675	0.000	
8.202	5181	8028	1.549	0.000	
8.212	1994	8027	4.025	0.000	
8.223	6137	8270	1.348	0.000	
8.236	6864	8171	1.190	0.001	
8.248	2383	7986	3.351	0.000	
8.253	2405	8059	3.351	0.000	
8.259	5294	8207	1.550	0.000	
8.268	2866	8235	2.874	0.000	
8.280	6583	8312	1.263	0.000	
8.289	4538	8296	1.828	0.000	
8.295	2060	8300	4.029	0.000	
8.300	2063	8291	4.020	0.000	
8.313	7062	8400	1.189	0.001	
8.318	1667	8375	5.023	0.000	
8.332	11362	9100	0.801	0.001	
8.343	4357	8741	2.006	0.000	
8.358	1267	8458	6.676	0.000	
8.363	2991	8621	2.882	0.000	
8.371	3980	8983	2.257	0.000	
8.379	6330	9083	1.435	0.000	
8.385	3111	8963	2.881	0.000	
8.393	6706	9050	1.349	0.000	
8.404	4903	8943	1.824	0.000	
8.417	8437	8972	1.063	0.001	
8.438	7166	9103	1.270	0.001	
8.443	3211	9227	2.873	0.000	12 C25
8.450	3688	9295	2.521	0.000	
8.455	2313	9276	4.010	0.000	
8.475	30054	13714	0.456	0.004	
8.504	5760	9733	1.690	0.000	
8.519	2799	9376	3.350	0.000	
8.529	4766	9710	2.037	0.000	
8.537	4875	9815	2.013	0.000	
8.543	8411	9973	1.186	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.555	2969	9916	3.340	0.000	
8.560	3974	9987	2.513	0.000	
8.568	2483	9997	4.026	0.000	
8.572	5007	10043	2.006	0.000	
8.591	14074	10725	0.762	0.002	
8.602	2648	10665	4.028	0.000	
8.606	2159	10862	5.032	0.000	
8.609	2183	10952	5.017	0.000	
8.633	7361	10561	1.435	0.001	
8.647	6774	10495	1.549	0.001	
8.658	2596	10420	4.014	0.000	
8.663	4723	10573	2.239	0.000	
8.669	3156	10589	3.355	0.000	
8.687	15405	11334	0.736	0.002	
8.699	6103	11158	1.828	0.000	
8.707	2223	11136	5.009	0.000	13 C26
8.730	28697	12536	0.437	0.004	
8.754	8658	11553	1.334	0.001	
8.763	2896	11612	4.010	0.000	
8.780	15029	12352	0.822	0.002	
8.788	1833	12243	6.680	0.000	
8.798	11854	12679	1.070	0.001	
8.806	1873	12509	6.677	0.000	
8.809	3133	12565	4.011	0.000	
8.813	2506	12550	5.008	0.000	
8.819	7588	12757	1.681	0.001	
8.829	4418	12679	2.870	0.000	
8.835	6988	12762	1.826	0.001	
8.848	13711	13258	0.967	0.002	
8.872	26625	13656	0.513	0.003	
8.894	4575	13127	2.869	0.000	
8.898	2631	13188	5.013	0.000	
8.902	5918	13262	2.241	0.000	
8.914	8577	13313	1.552	0.001	
8.922	4011	13433	3.349	0.000	
8.926	4724	13546	2.867	0.000	
8.933	6787	13651	2.011	0.001	
8.946	9614	13923	1.448	0.001	
8.951	6274	14004	2.232	0.000	
8.960	5592	14036	2.510	0.000	
8.966	3513	14090	4.011	0.000	
8.969	2829	14171	5.009	0.000	
8.973	4976	14233	2.860	0.000	
8.980	4289	14365	3.350	0.000	
8.996	27708	16441	0.593	0.004	
9.013	8129	14847	1.827	0.001	
9.025	8129	14840	1.826	0.001	
9.036	7503	15229	2.030	0.001	
9.040	4559	15225	3.340	0.000	
9.057	14920	16251	1.089	0.002	
9.067	9915	16831	1.698	0.001	
9.076	8535	17331	2.031	0.001	
9.081	5250	17596	3.352	0.000	
9.084	10558	17675	1.674	0.001	
9.095	4386	17601	4.013	0.000	
9.111	30564	19262	0.630	0.004	
9.128	8346	18722	2.243	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.139	15095	18986	1.258	0.002	
9.149	6655	19050	2.862	0.000	
9.158	23240	19719	0.848	0.003	
9.171	1903	19042	10.005	0.000	
9.175	4773	19156	4.013	0.000	
9.187	23630	19927	0.843	0.003	
9.199	4925	19763	4.013	0.000	
9.208	14115	20394	1.445	0.002	
9.219	12303	20691	1.682	0.001	
9.226	7266	20831	2.867	0.001	
9.233	15622	21000	1.344	0.002	14 C28
9.247	9280	20714	2.232	0.001	
9.262	45057	27849	0.618	0.006	
9.281	22651	23200	1.024	0.003	
9.304	13489	22820	1.692	0.001	
9.307	18038	22862	1.267	0.002	
9.328	8656	21778	2.516	0.001	
9.334	8635	21650	2.507	0.001	
9.343	16240	21738	1.339	0.002	
9.354	5409	21709	4.013	0.000	
9.367	16481	22234	1.349	0.002	
9.370	6683	22346	3.344	0.000	
9.382	14775	23166	1.568	0.002	
9.390	11679	23531	2.015	0.001	
9.394	12888	23584	1.830	0.001	
9.408	18752	23645	1.261	0.002	
9.416	4675	23396	5.004	0.000	
9.428	25138	24392	0.970	0.003	
9.438	20233	24095	1.191	0.002	
9.468	67429	26696	0.396	0.009	
9.496	8413	24122	2.867	0.001	
9.507	12049	24259	2.013	0.001	
9.527	36362	25771	0.709	0.005	
9.538	12891	25911	2.010	0.001	
9.543	6452	25853	4.007	0.000	
9.551	10420	26202	2.515	0.001	
9.557	29750	26593	0.894	0.004	
9.574	6252	25071	4.010	0.000	
9.593	29143	27655	0.949	0.004	
9.599	40783	27905	0.684	0.006	
9.620	13159	26364	2.004	0.001	
9.632	17259	26799	1.553	0.002	
9.640	13210	26592	2.013	0.001	
9.664	35362	28170	0.797	0.005	
9.672	27890	28134	1.009	0.004	
9.696	26737	28634	1.071	0.003	
9.711	53475	30848	0.577	0.007	
9.745	33266	29504	0.887	0.004	$ 15 Triacon Surr
9.752	7348	29501	4.015	0.001	
9.756	20542	29565	1.439	0.003	
9.768	7255	29059	4.005	0.001	
9.773	7275	29173	4.010	0.001	
9.785	31543	30611	0.970	0.004	
9.803	46804	32832	0.701	0.006	
9.821	10456	30060	2.875	0.001	
9.833	30772	31156	1.012	0.004	
9.860	77784	33514	0.431	0.011	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.881	12779	32069	2.510	0.001	
9.892	14531	32668	2.248	0.002	
9.896	8201	32902	4.012	0.001	
9.908	23357	33882	1.451	0.003	
9.912	27050	34095	1.260	0.003	
9.939	14585	32570	2.233	0.002	
9.951	23032	33095	1.437	0.003	
9.956	11596	33292	2.871	0.001	
9.966	16544	33271	2.011	0.002	
9.971	11660	33391	2.864	0.001	
9.975	10051	33617	3.345	0.001	
9.983	15209	33983	2.234	0.002	
9.988	15177	33830	2.229	0.002	
9.996	10128	33907	3.348	0.001	
10.018	43348	35629	0.822	0.006	
10.021	7133	35693	5.004	0.001	
10.025	8960	35988	4.016	0.001	
10.034	42064	36944	0.878	0.006	
10.063	65447	38699	0.591	0.009	
10.077	7375	36906	5.004	0.001	
10.083	16743	37428	2.235	0.002	
10.095	34467	38665	1.122	0.005	
10.118	90921	40621	0.447	0.013	
10.151	37738	38047	1.008	0.005	
10.158	11383	38037	3.342	0.001	
10.168	36074	38274	1.061	0.005	
10.181	15072	37809	2.509	0.002	16 C32
10.185	5655	37746	6.675	0.000	
10.198	43905	38471	0.876	0.006	
10.208	24771	38177	1.541	0.003	
10.218	19031	38113	2.003	0.002	
10.228	13353	38279	2.867	0.001	
10.237	21225	38826	1.829	0.003	
10.243	30946	38929	1.258	0.004	
10.266	43064	39733	0.923	0.006	
10.275	11912	39784	3.340	0.001	
10.278	19932	39886	2.001	0.002	
10.293	46366	40725	0.878	0.006	
10.318	46465	41024	0.883	0.006	
10.328	24720	41353	1.673	0.003	
10.334	10308	41278	4.005	0.001	
10.343	29100	41866	1.439	0.004	
10.354	22822	41695	1.827	0.003	
10.360	16568	41490	2.504	0.002	
10.376	31388	42321	1.348	0.004	
10.384	36478	43119	1.182	0.005	
10.393	21427	43144	2.014	0.003	
10.416	82339	44731	0.543	0.012	
10.434	23173	42257	1.824	0.003	
10.455	42801	43684	1.021	0.006	
10.459	19648	44004	2.240	0.002	
10.469	19632	43883	2.235	0.002	
10.492	56113	45807	0.816	0.008	
10.497	20626	45915	2.226	0.003	
10.503	27439	45837	1.671	0.004	
10.513	31833	45842	1.440	0.004	
10.523	6773	45190	6.672	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.529	22697	45513	2.005	0.003	
10.543	39087	46432	1.188	0.005	
10.552	16284	46719	2.869	0.002	
10.558	18796	47158	2.509	0.002	
10.576	69878	48769	0.698	0.010	
10.586	12085	48384	4.004	0.001	
10.592	21757	48469	2.228	0.003	
10.609	46960	50482	1.075	0.006	
10.616	40486	50812	1.255	0.005	17 C34
10.628	52392	50284	0.960	0.007	
10.665	99744	52644	0.528	0.014	
10.680	20832	52264	2.509	0.003	
10.699	126137	55939	0.443	0.018	
10.723	18258	52316	2.865	0.002	
10.733	65550	52928	0.807	0.009	
10.751	49102	51903	1.057	0.007	
10.765	10288	51490	5.005	0.001	
10.777	73220	52877	0.722	0.010	
10.791	15621	52150	3.338	0.002	
10.799	46819	52190	1.115	0.006	
10.817	52000	52328	1.006	0.007	
10.828	13014	52167	4.008	0.001	
10.833	18275	52280	2.861	0.002	
10.838	67284	52271	0.777	0.009	
10.860	15395	51401	3.339	0.002	
10.867	15366	51252	3.335	0.002	
10.874	25712	51608	2.007	0.003	
10.885	59363	52064	0.877	0.008	
10.901	33199	51247	1.544	0.004	
10.911	35859	51446	1.435	0.005	
10.925	15150	50526	3.335	0.002	
10.936	27761	50508	1.819	0.004	
10.954	40634	51235	1.261	0.005	
10.958	17973	51428	2.861	0.002	
10.982	101216	54997	0.543	0.014	
10.999	80380	54264	0.675	0.011	
11.022	15822	52869	3.342	0.002	
11.029	23878	53171	2.227	0.003	
11.032	23908	53219	2.226	0.003	
11.044	39793	53228	1.338	0.005	
11.053	13218	52959	4.007	0.001	19 C36
11.057	26491	53088	2.004	0.003	
11.069	47933	53454	1.115	0.007	
11.079	78088	52997	0.679	0.011	
11.132	4853	48537	10.002	0.000	
11.138	21933	48845	2.227	0.003	
11.148	46678	49317	1.057	0.006	
11.158	12248	49060	4.006	0.001	
11.164	14711	49102	3.338	0.002	
11.179	64473	49939	0.775	0.009	
11.192	19751	49439	2.503	0.002	
11.197	14848	49541	3.337	0.002	
11.202	17336	49566	2.859	0.002	
11.206	12400	49639	4.003	0.001	
11.212	56808	49881	0.878	0.008	
11.230	26830	48794	1.819	0.003	
11.263	19014	47590	2.503	0.002	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
11.267	11927	47790	4.007	0.001	
11.285	66432	50042	0.753	0.009	
11.308	17214	49235	2.860	0.002	
11.312	19684	49285	2.504	0.002	
11.322	19740	49570	2.511	0.002	
11.331	27467	50208	1.828	0.004	
11.334	12565	50301	4.003	0.001	
11.338	17617	50367	2.859	0.002	
11.356	50450	50688	1.005	0.007	
11.383	31641	48774	1.541	0.004	
11.392	14562	48589	3.337	0.002	
11.398	14566	48593	3.336	0.002	
11.405	21947	48858	2.226	0.003	
11.418	36961	49602	1.342	0.005	
11.428	52174	49838	0.955	0.007	
11.438	46900	49605	1.058	0.006	
11.456	66003	49218	0.746	0.009	
11.481	84312	48818	0.579	0.012	
11.518	39837	46996	1.180	0.005	
11.533	55836	46822	0.839	0.008	20 C38
11.560	30101	46465	1.544	0.004	
11.568	20916	46512	2.224	0.003	
11.573	11637	46596	4.004	0.001	
11.579	23274	46598	2.002	0.003	
11.586	13953	46531	3.335	0.002	
11.591	9318	46631	5.004	0.001	
11.623	97892	48831	0.499	0.014	
11.631	17107	48984	2.863	0.002	
11.638	22090	49260	2.230	0.003	
11.642	32050	49351	1.540	0.004	
11.669	95446	50981	0.534	0.014	
11.685	95822	49865	0.520	0.014	
11.788	8918	44609	5.002	0.001	
11.791	35704	44768	1.254	0.005	
11.804	11082	44350	4.002	0.001	
11.813	22172	44403	2.003	0.003	
11.823	19993	44543	2.228	0.002	
11.829	13395	44754	3.341	0.001	
11.837	20184	44981	2.228	0.002	
11.852	26933	44942	1.669	0.003	
11.866	36041	45224	1.255	0.005	
11.877	15835	45355	2.864	0.002	
11.883	18222	45726	2.509	0.002	
11.889	15985	45741	2.861	0.002	
11.896	20679	46117	2.230	0.003	
11.905	23259	46896	2.016	0.003	
11.929	70146	49826	0.710	0.010	
11.936	52288	50085	0.958	0.007	
11.951	14787	49369	3.339	0.002	
11.957	17313	49595	2.865	0.002	
11.961	32199	49647	1.542	0.004	
11.971	19578	49063	2.506	0.002	
11.980	34244	49065	1.433	0.005	
12.019	96987	51133	0.527	0.014	
12.025	48685	51499	1.058	0.007	
12.053	38386	51386	1.339	0.005	
12.062	38575	51549	1.336	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.070	17923	51300	2.862	0.002	
12.078	45780	51141	1.117	0.006	
12.105	31495	48817	1.550	0.004	
12.118	85510	48295	0.565	0.012	
12.148	55474	46657	0.841	0.008	21 C40
12.172	34299	45899	1.338	0.005	
12.181	18286	45754	2.502	0.002	
12.188	20565	45727	2.223	0.003	
12.198	29701	45787	1.542	0.004	
12.212	11377	45530	4.002	0.001	
12.218	29576	45566	1.541	0.004	
12.237	41054	45750	1.114	0.006	
12.243	13695	45701	3.337	0.002	
12.253	27528	46122	1.675	0.004	
12.260	16149	46201	2.861	0.002	
12.272	32473	46571	1.434	0.004	
12.347	231342	54259	0.235	0.034	
12.355	96470	54322	0.563	0.014	
12.383	13155	52687	4.005	0.001	
12.389	52817	52930	1.002	0.007	
12.434	117936	55204	0.468	0.017	
12.440	19323	55283	2.861	0.002	
12.448	22049	55156	2.502	0.003	
12.460	127044	56114	0.442	0.018	
12.500	63536	55700	0.877	0.009	
12.519	44746	56237	1.257	0.006	
12.523	16928	56556	3.341	0.002	
12.528	14154	56666	4.003	0.002	
12.532	14154	56644	4.002	0.002	
12.538	25607	57089	2.229	0.003	
12.543	31284	57010	1.822	0.004	
12.560	76588	57084	0.745	0.011	
12.574	22463	56167	2.500	0.003	
12.583	192414	56305	0.293	0.028	
12.668	201456	54098	0.269	0.029	
12.722	63529	49368	0.777	0.009	
12.744	14574	48683	3.340	0.002	
12.757	68233	49046	0.719	0.010	
12.777	29106	48653	1.672	0.004	
12.802	69072	49884	0.722	0.010	
12.805	19947	49915	2.502	0.002	
12.813	12457	49907	4.006	0.001	
12.826	42860	50672	1.182	0.006	
12.830	15192	50711	3.338	0.002	
12.835	63121	50727	0.804	0.009	
12.856	30109	50299	1.671	0.004	
12.871	12459	49875	4.003	0.001	
12.876	24950	49913	2.001	0.003	
12.883	12458	49860	4.002	0.001	
12.892	24999	50091	2.004	0.003	
12.904	37682	50442	1.339	0.005	
12.918	60965	51059	0.838	0.009	
12.929	15268	50972	3.338	0.002	
12.950	101236	52476	0.518	0.014	
12.991	32619	50285	1.542	0.004	
13.030	23826	47690	2.002	0.003	
13.047	49429	47410	0.959	0.007	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.072	11668	46709	4.003	0.001	
13.077	14056	46964	3.341	0.002	
13.083	21201	47214	2.227	0.003	
13.092	45034	47490	1.055	0.006	
13.103	33139	47401	1.430	0.004	
13.119	58622	47300	0.807	0.008	
13.136	61979	46406	0.749	0.009	
13.163	36232	45399	1.253	0.005	
13.172	13552	45219	3.337	0.002	
13.178	13550	45211	3.337	0.002	
13.183	13581	45318	3.337	0.002	
13.188	15867	45365	2.859	0.002	
13.193	11350	45433	4.003	0.001	
13.206	54879	45909	0.837	0.008	
13.233	74220	46899	0.632	0.010	
13.246	18724	46923	2.506	0.002	
13.250	14089	47028	3.338	0.002	
13.254	9392	46999	5.004	0.001	
13.261	35241	47103	1.337	0.005	
13.270	21093	46884	2.223	0.003	
13.278	16404	46889	2.858	0.002	
13.284	28108	46937	1.670	0.004	
13.309	27777	46575	1.677	0.004	
13.313	11643	46617	4.004	0.001	
13.323	30391	46938	1.544	0.004	
13.337	49696	47554	0.957	0.007	
13.345	11906	47686	4.005	0.001	
13.352	21499	47921	2.229	0.003	
13.358	14416	48133	3.339	0.002	
13.366	24163	48487	2.007	0.003	
13.391	108474	49842	0.459	0.016	
13.411	39818	49922	1.254	0.005	
13.421	140245	49882	0.356	0.020	
13.468	75433	46221	0.613	0.011	
13.519	59701	44435	0.744	0.008	
13.538	26345	44021	1.671	0.003	
13.553	17475	43727	2.502	0.002	
13.559	19699	43828	2.225	0.002	
13.566	15324	43832	2.860	0.002	
13.574	28519	43956	1.541	0.004	
13.585	21950	43943	2.002	0.003	
13.595	26497	44341	1.673	0.003	
13.603	22230	44574	2.005	0.003	
13.608	11135	44585	4.004	0.001	
13.633	100703	46371	0.460	0.014	
13.650	25255	45974	1.820	0.003	
13.663	20511	45675	2.227	0.003	
13.670	15945	45584	2.859	0.002	
13.677	40973	45642	1.114	0.006	
13.688	4544	45448	10.002	0.000	
13.693	29520	45508	1.542	0.004	
13.718	24720	44995	1.820	0.003	
13.727	11216	44890	4.002	0.001	
13.735	29185	45025	1.543	0.004	
13.752	17874	44782	2.505	0.002	
13.767	35874	45020	1.255	0.005	
13.775	36036	45104	1.252	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.785	11226	44939	4.003	0.001	
13.790	47016	44953	0.956	0.006	
13.813	11118	44516	4.004	0.001	
13.818	37641	44507	1.182	0.005	
13.832	15424	44192	2.865	0.002	
13.838	17564	43967	2.503	0.002	
13.844	26339	43892	1.666	0.003	
13.855	30567	43821	1.434	0.004	
13.865	23854	43526	1.825	0.003	
13.882	28266	43639	1.544	0.004	
13.886	30418	43629	1.434	0.004	
13.901	34702	43472	1.253	0.005	
13.920	48162	44005	0.914	0.007	
13.928	17577	43956	2.501	0.002	
13.941	15410	44084	2.861	0.002	
13.946	11045	44251	4.006	0.001	
13.949	24369	44341	1.820	0.003	
13.959	22103	44264	2.003	0.003	
13.967	22088	44195	2.001	0.003	
13.976	33207	44336	1.335	0.004	18 Filter Peak
13.998	24195	44018	1.819	0.003	
14.007	15335	43888	2.862	0.002	
14.014	17519	43863	2.504	0.002	
14.019	54335	43870	0.807	0.008	
14.046	10722	42915	4.003	0.001	
14.052	19305	42955	2.225	0.002	
14.058	8568	42864	5.003	0.001	
14.067	38739	43159	1.114	0.005	
14.077	15012	42931	2.860	0.002	
14.083	25753	42977	1.669	0.003	
14.102	25682	42913	1.671	0.003	
14.108	19267	42865	2.225	0.002	
14.116	12834	42815	3.336	0.001	
14.126	25874	43369	1.676	0.003	
14.133	56339	43595	0.774	0.008	
14.161	32503	43582	1.341	0.004	
14.165	10909	43696	4.006	0.001	
14.170	15313	43822	2.862	0.002	
14.175	10960	43911	4.007	0.001	
14.178	13176	43945	3.335	0.001	
14.183	19785	43976	2.223	0.002	
14.191	8796	44018	5.005	0.001	
14.197	17636	44177	2.505	0.002	
14.208	28815	44459	1.543	0.004	
14.219	8873	44379	5.002	0.001	
14.223	13318	44445	3.337	0.001	
14.229	28860	44456	1.540	0.004	
14.247	15436	44194	2.863	0.002	
14.260	37147	43758	1.178	0.005	
14.274	45685	43705	0.957	0.006	
	677340272	268782821		100.000	

Total unknown % area = 25.478

Supelco®

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Lot Number: CL16062
Description: Benzidines Standard
Certification Date: November 19, 2020
Storage: 4 °C
Expiration Date: November 30, 2030
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

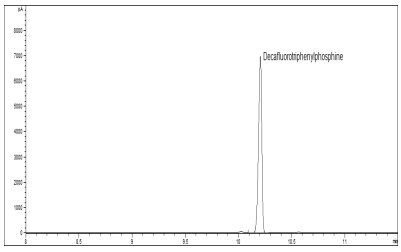
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

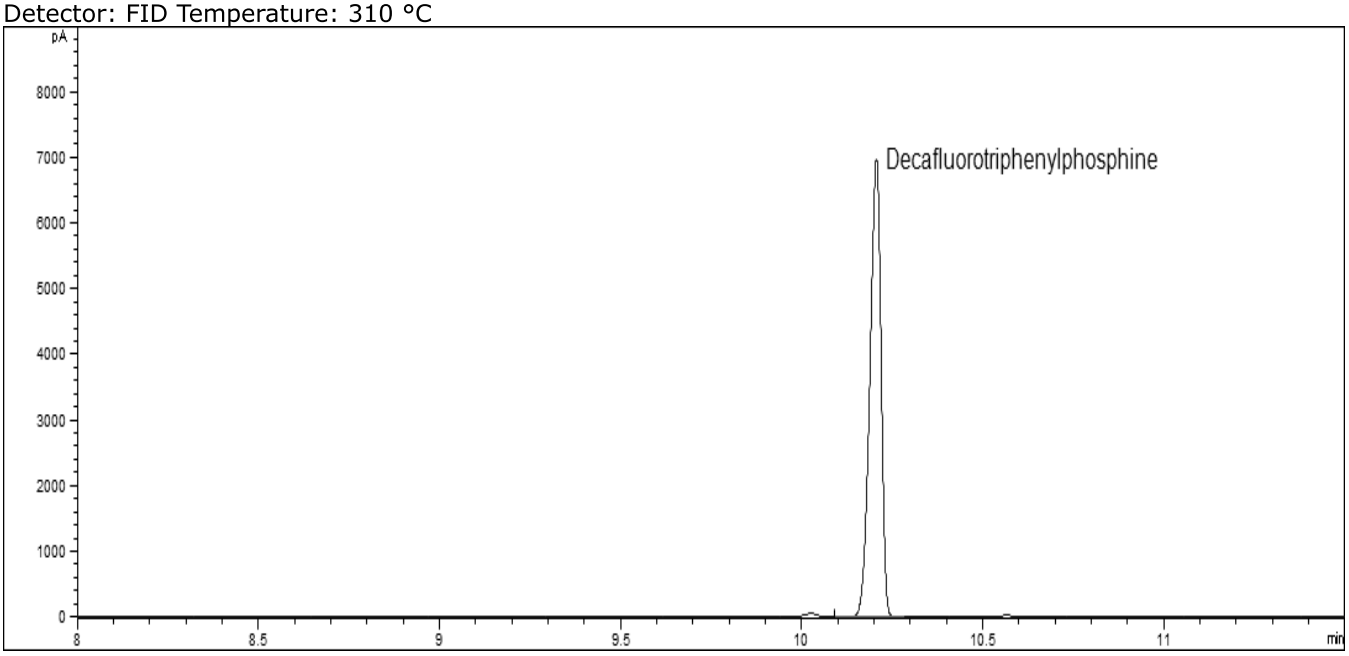


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



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Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	January 05, 2021
Version	0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

Agilent

Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50				µg/mL	Stressed
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

Certificate of Analysis

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Certified Reference Material

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Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

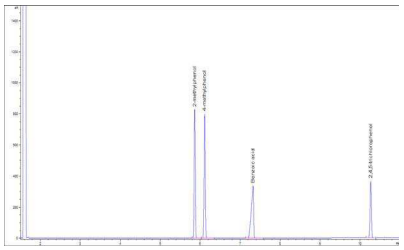
ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

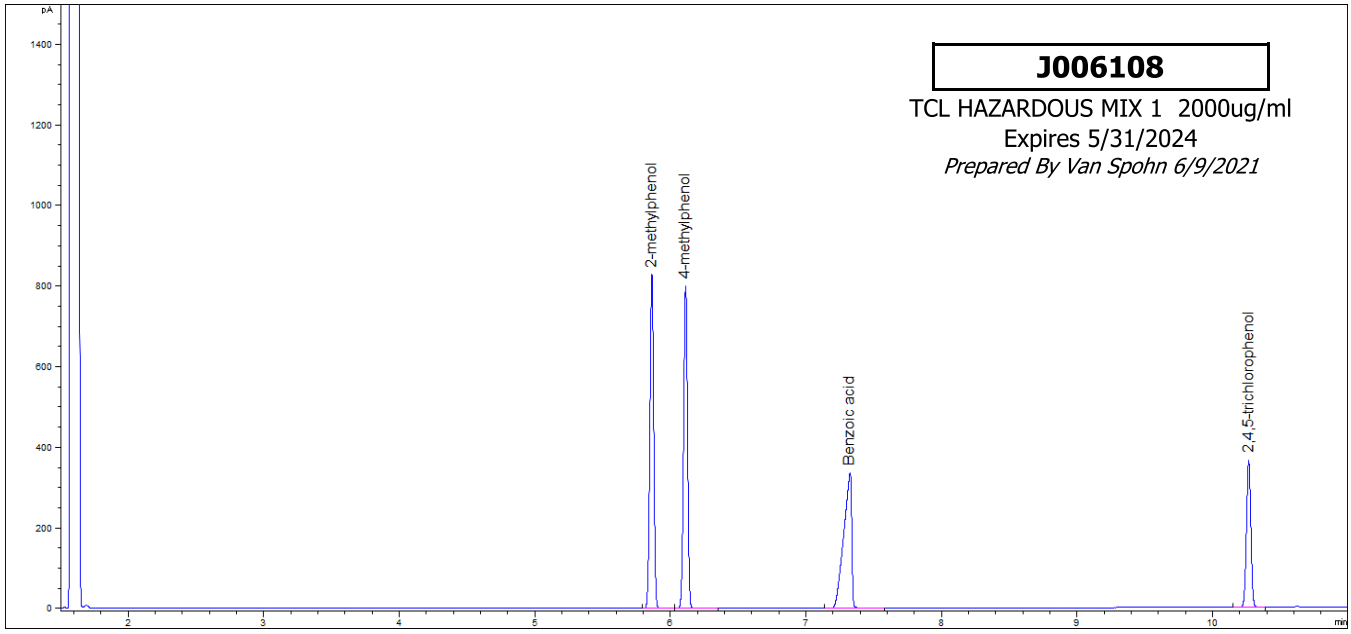
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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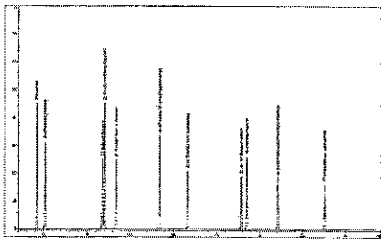
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



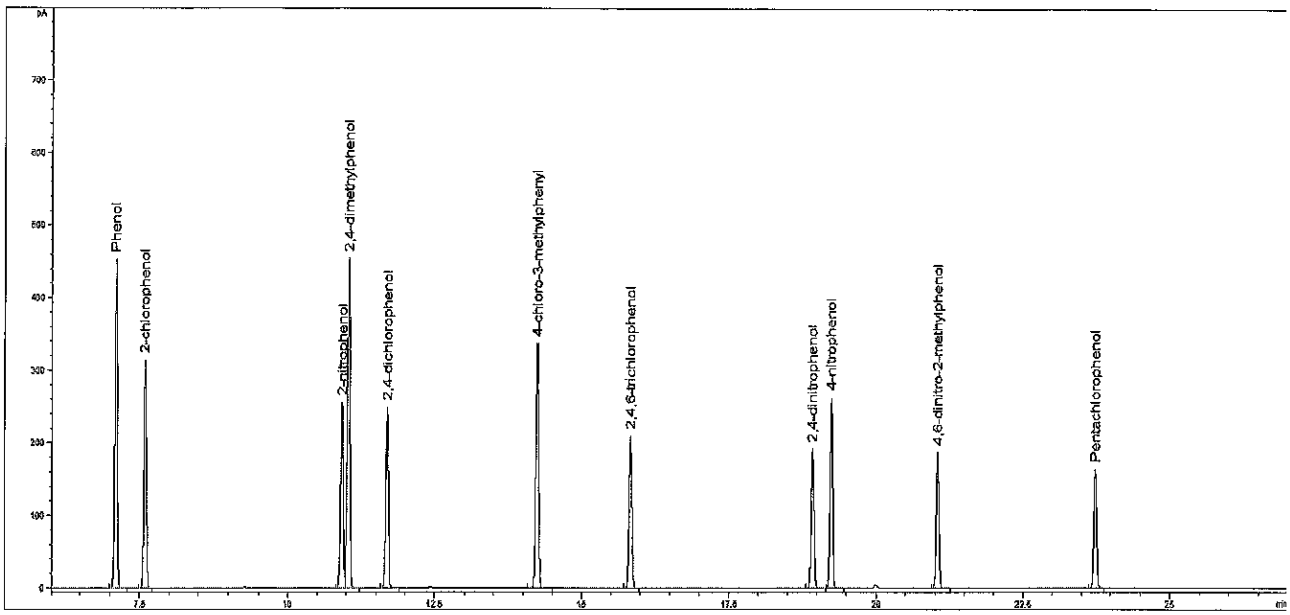
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

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Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

RESTEK® C

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

K007194
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO187400
Prep: 8/5/2022 by VS
Exp: 4/30/2026
Location:

Certificate of Analysis

IAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0187400

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ3299) **Purity** 99%	1,508.0 µg/mL	+/- 8.9571 µg/mL +/- 44.0466 µg/mL +/- 53.4340 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot SL210831) **Purity** 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL +/- 44.1050 µg/mL +/- 53.5049 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32597) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

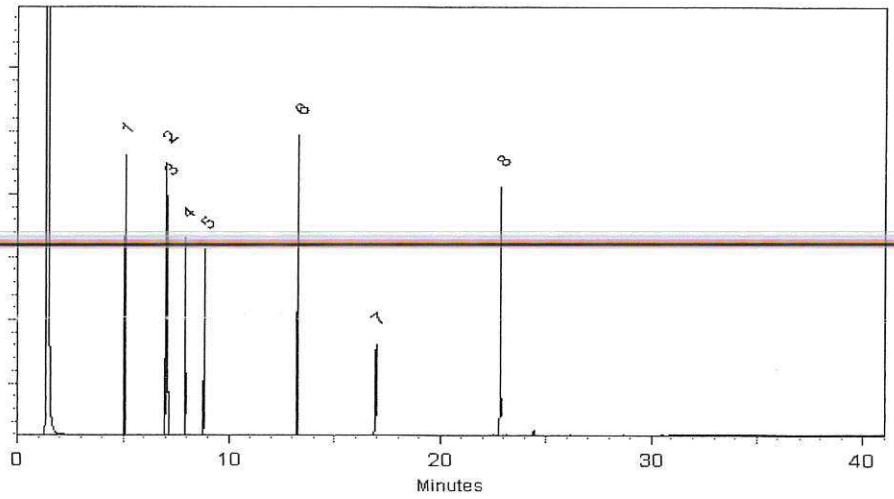
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 17-Jul-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

Aaron Dukes, Certified Reference Materials Manager

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company
Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

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Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	800	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	800	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	801	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1799	µg/mL	66.9	STBJ5751
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	800	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	800	µg/mL	100.0	BCCD4461
4-NITROPHENOL CAS# 100-02-7	800	µg/mL	100.0	MKCN1089
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1800	µg/mL	100.0	BCBX5762
PENTACHLOROPHENOL CAS# 87-86-5	800	µg/mL	99.0	23614-01
BENZOIC ACID CAS# 65-85-0	1800	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2750.01	03 JUN 2022	Original Release Date

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18939
Certification Date: September 7, 2022
Expiration Date: August 31, 2032

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 3.812%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.419%

L001288
Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Lot Number: CL18741
Description: Aniline
Certification Date: July 21, 2022
Storage: 4 °C
Expiration Date: July 31, 2030
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 1.719%

L001290
Anline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Aaron Dukes, Certified Reference Materials Manager

L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Component	CAS #	µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 1.643%
Acenaphthylene	208-96-8	1000	± 1.317%
Anthracene	120-12-7	1000	± 2.136%
Azobenzene	103-33-3	1000	± 1.630%
Benzo(a)anthracene	56-55-3	1000	± 2.372%
Benzo(a)pyrene	50-32-8	1000	± 3.028%
Benzo(b)fluoranthene	205-99-2	1000	± 2.377%
Benzo(k)fluoranthene	207-08-9	1000	± 2.286%
Benzo(g,h,i)perylene	191-24-2	1000	± 2.561%
Benzyl alcohol	100-51-6	1000	± 1.803%
Benzyl butyl phthalate	85-68-7	1000	± 1.855%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 1.626%
bis(2-Chloroethyl) ether	111-44-4	1000	± 1.776%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 2.406%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 2.415%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 2.350%
4-Bromophenyl phenyl ether	101-55-3	1000	± 1.708%
Carbazole	86-74-8	1000	± 1.844%

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 2.831%
4-Chloro-3-methylphenol	59-50-7	1000	± 1.571%
2-Chloronaphthalene	91-58-7	1000	± 2.022%
2-Chlorophenol	95-57-8	1000	± 2.001%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 1.634%
Chrysene	218-01-9	1000	± 2.358%
Dibenz(a,h)anthracene	53-70-3	1000	± 2.452%
Dibenzofuran	132-64-9	1000	± 0.310%
Di-n-butyl phthalate	84-74-2	1000	± 2.347%
1,2-Dichlorobenzene	95-50-1	1000	± 1.803%
1,3-Dichlorobenzene	541-73-1	1000	± 1.808%
1,4-Dichlorobenzene	106-46-7	1000	± 1.503%
2,4-Dichlorophenol	120-83-2	1000	± 1.393%
Diethyl phthalate	84-66-2	1000	± 1.870%
2,4-Dimethylphenol	105-67-9	1000	± 2.495%
Dimethyl phthalate	131-11-3	1000	± 2.113%
1,2-Dinitrobenzene	528-29-0	1000	± 0.240%
1,3-Dinitrobenzene	99-65-0	1000	± 1.221%
1,4-Dinitrobenzene	100-25-4	1000	± 0.246%
2,4-Dinitrophenol	51-28-5	1000	± 0.519%
2,4-Dinitrotoluene	121-14-2	1000	± 2.242%

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Certified Reference Material

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 2.154%
Di-n-octyl phthalate	117-84-0	1000	± 2.670%
Fluoranthene	206-44-0	1000	± 2.103%
Fluorene	86-73-7	1000	± 0.890%
Hexachlorobenzene	118-74-1	1000	± 1.210%
Hexachlorobutadiene	87-68-3	1000	± 1.304%
Hexachlorocyclopentadiene	77-47-4	1000	± 1.510%
Hexachloroethane	67-72-1	1000	± 3.281%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 1.921%
Isophorone	78-59-1	1000	± 2.022%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 1.661%
1-Methylnaphthalene	90-12-0	1000	± 1.929%
2-Methylnaphthalene	91-57-6	1000	± 2.220%
2-Methylphenol	95-48-7	1000	± 2.168%
3-Methylphenol	108-39-4	500	± 1.025%
4-Methylphenol	106-44-5	500	± 1.064%
Naphthalene	91-20-3	1000	± 1.199%
2-Nitroaniline	88-74-4	1000	± 1.874%
3-Nitroaniline	99-09-2	1000	± 2.146%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 1.704%

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Certicate No. 2427.02

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 2.051%
4-Nitrophenol	100-02-7	1000	± 1.413%
N-Nitrosodimethylamine	62-75-9	1000	± 0.545%
N-Nitrosodiphenylamine	86-30-6	1000	± 1.669%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.712%
Pentachlorophenol	87-86-5	1000	± 2.454%
Phenanthrene	85-01-8	1000	± 2.072%
Phenol	108-95-2	1000	± 2.140%
Pyrene	129-00-0	1000	± 1.869%
Pyridine	110-86-1	1000	± 0.545%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 2.552%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 2.220%
1,2,4-Trichlorobenzene	120-82-1	1000	± 1.632%
2,4,5-Trichlorophenol	95-95-4	1000	± 1.596%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.481%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1804

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 A	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/18/23 11:16	File ID:	NT1005052311S.D
% Solids:	49.34	Preparation:	EPA 3546 (Microwave)	Analyzed:	05/05/23 17:15
Batch:	BLD0329	Sequence:	SLE0466	Initial/Final:	20.29 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GE00018
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	1.8	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	251		2.5	20.0
65-85-0	Benzoic acid	1	170	Q, J	13.4	200
105-67-9	2,4-Dimethylphenol	1	2.8	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	9.1	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.17	375	50.0	27 - 120	
p-Terphenyl-d14	499.45	425	85.2	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523115.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

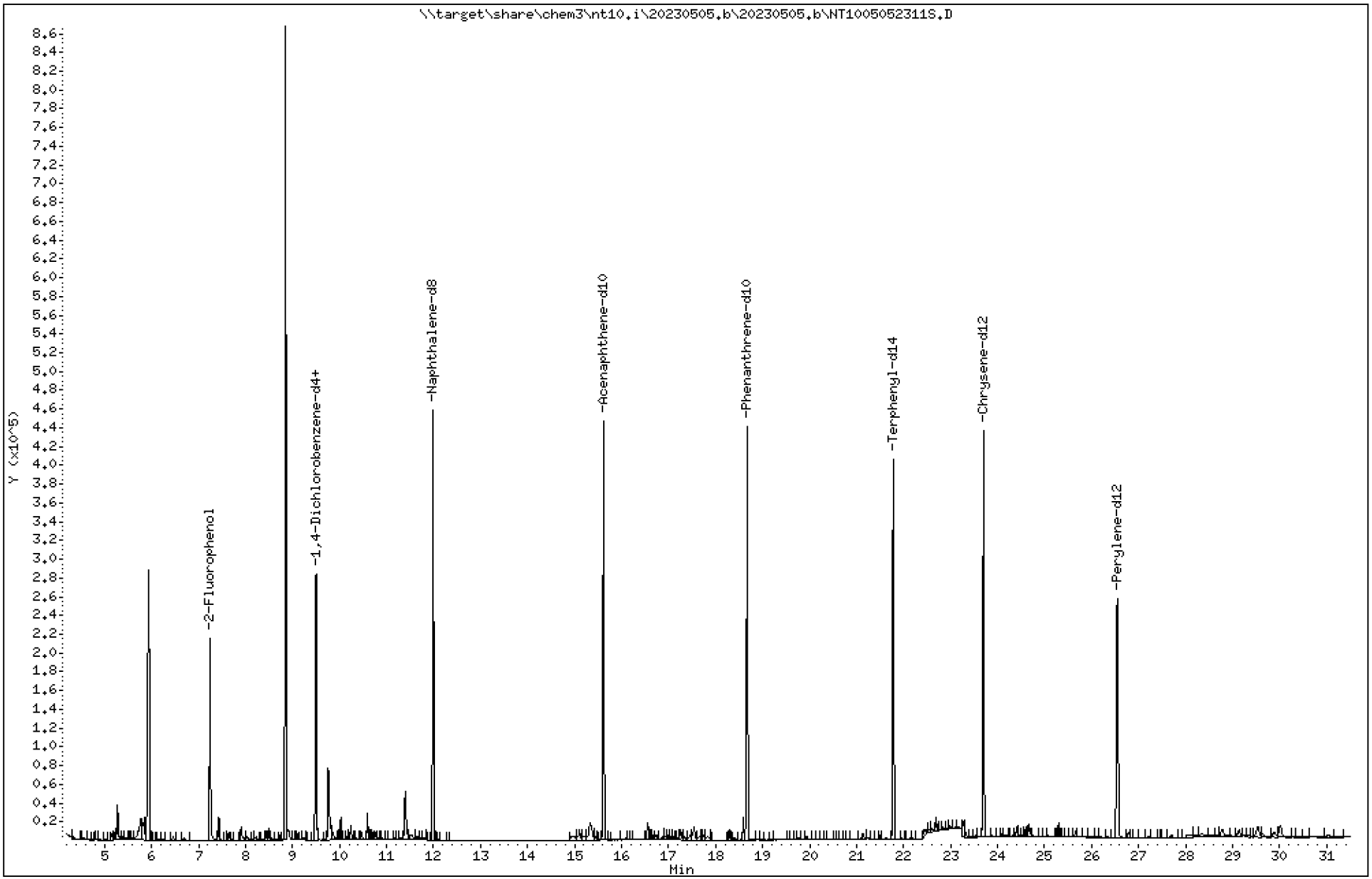
Sample Info: 23D0136-01

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

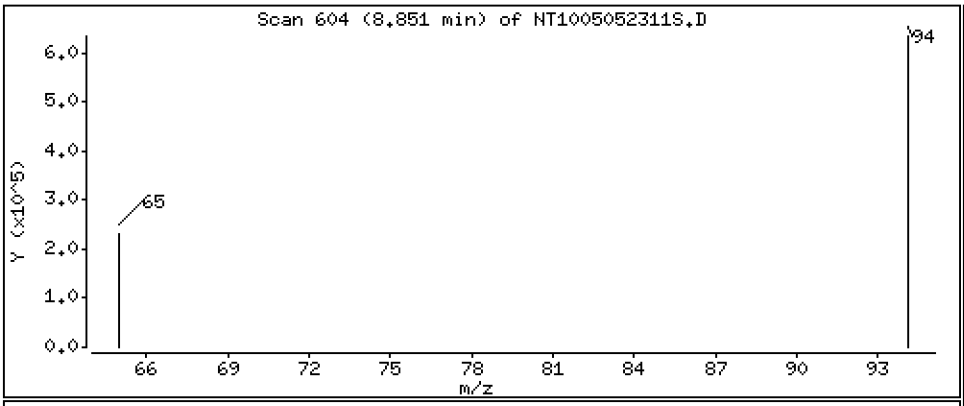
Operator: DSD

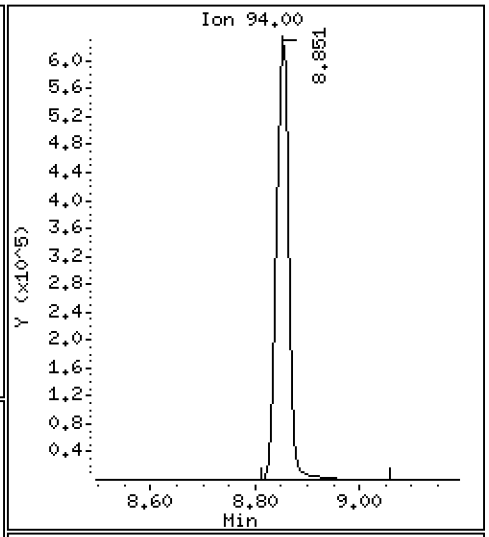
Column phase: ZB-5msi

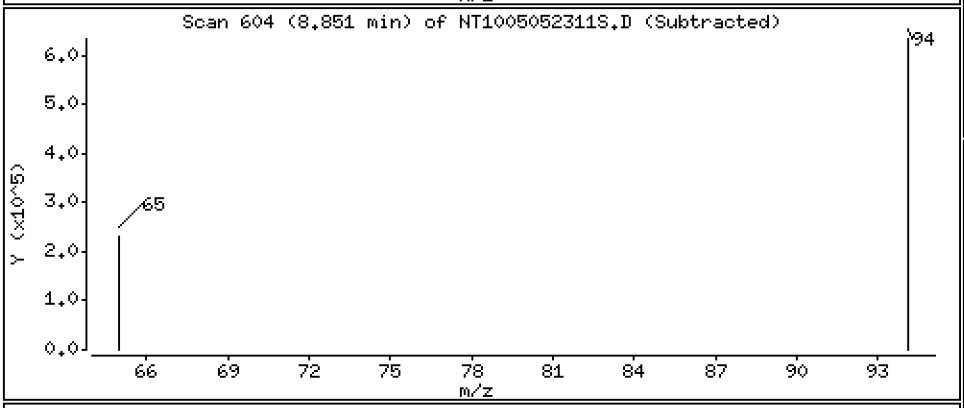
Column diameter: 0.25

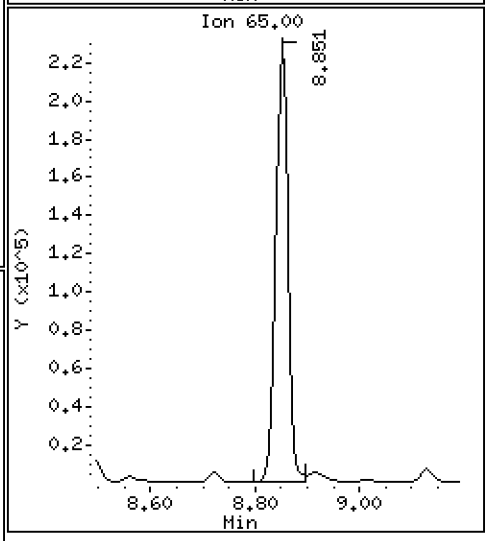
3 Phenol

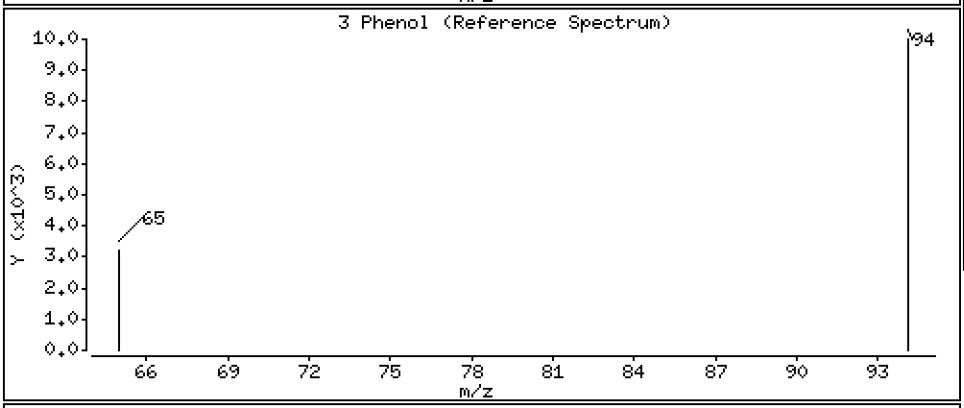
Concentration: 13.93 ug/L

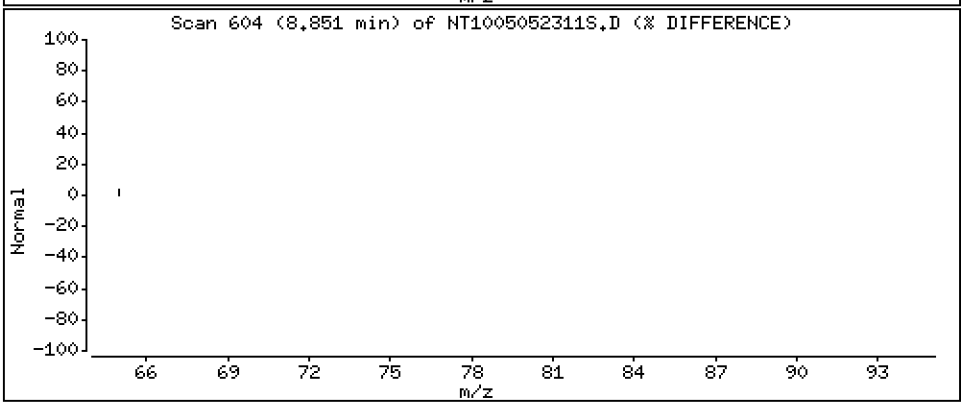












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

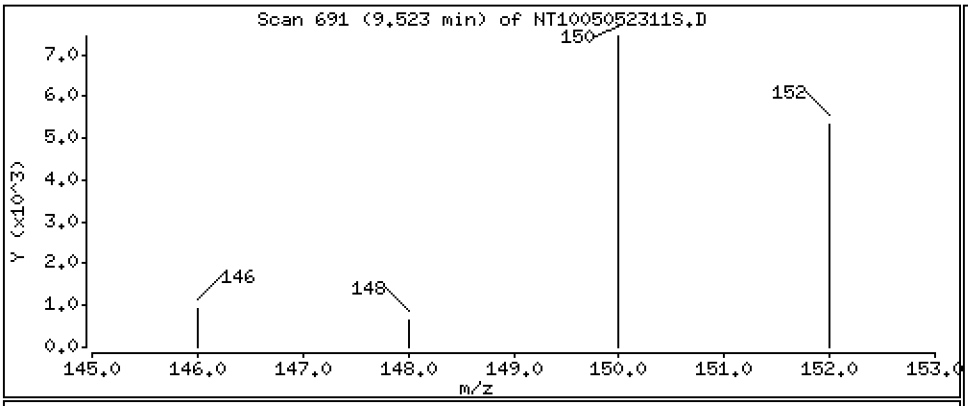
Operator: DSD

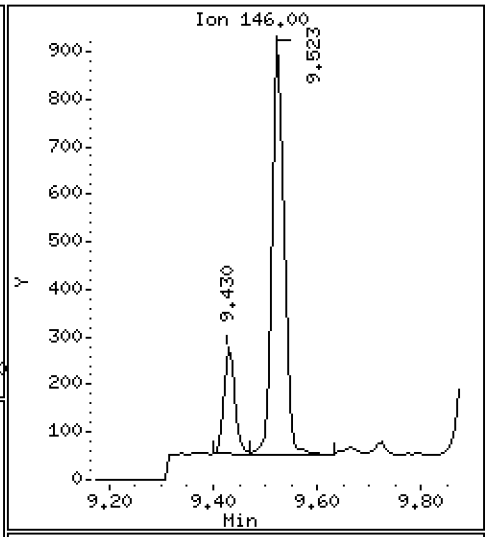
Column phase: ZB-5msi

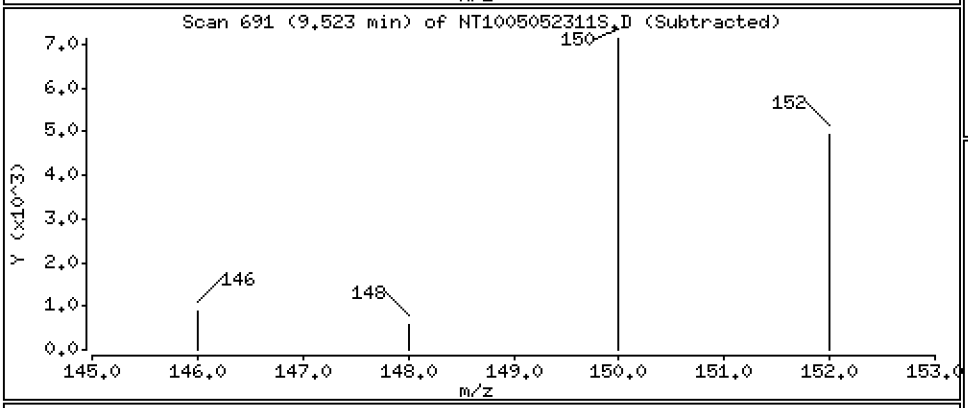
Column diameter: 0.25

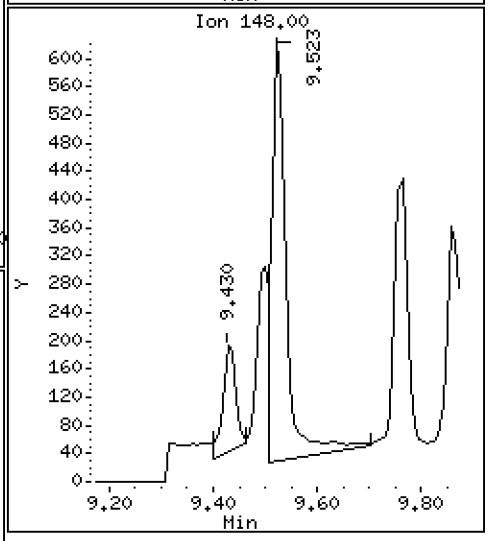
9 1,4-Dichlorobenzene

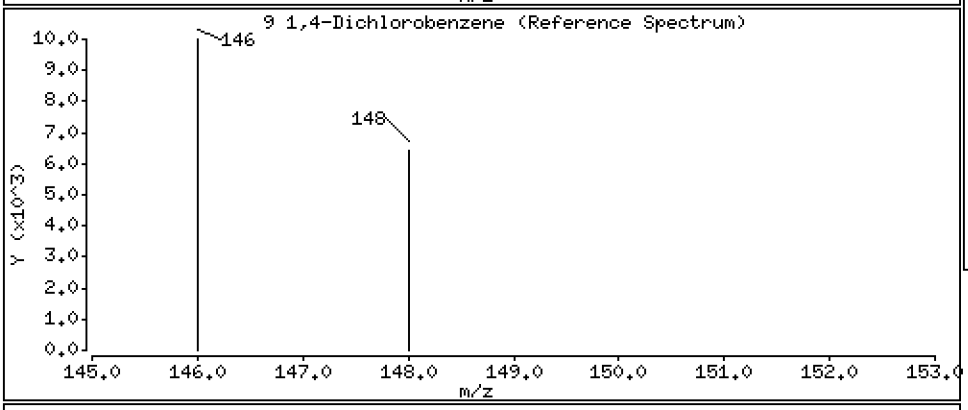
Concentration: 0.01842 ug/L

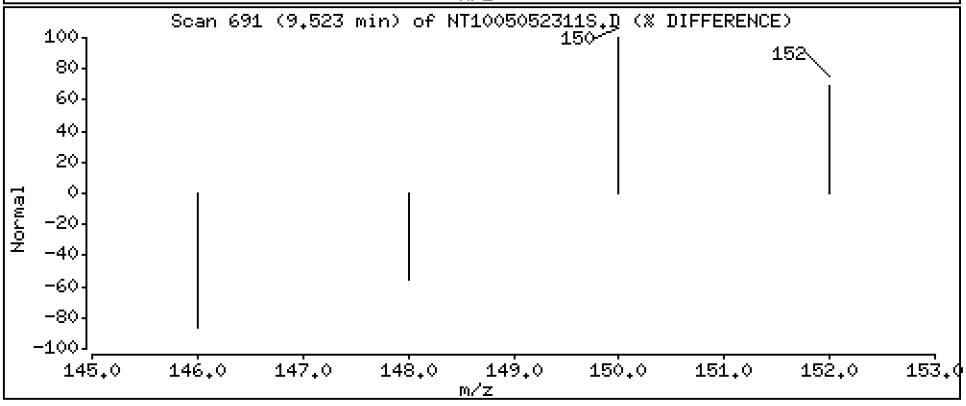












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

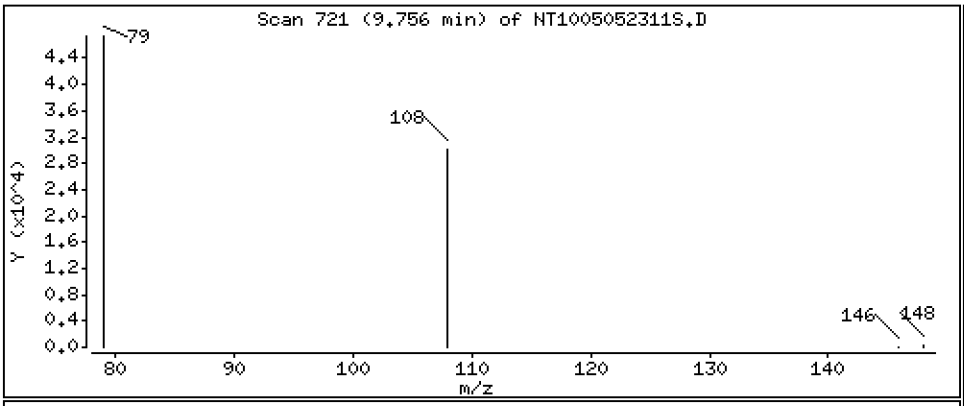
Operator: DSD

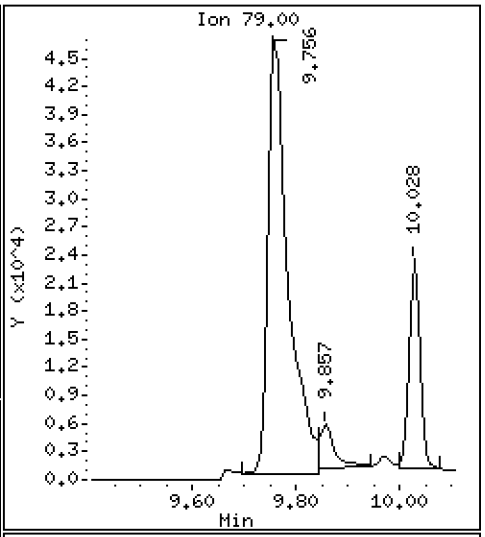
Column phase: ZB-5msi

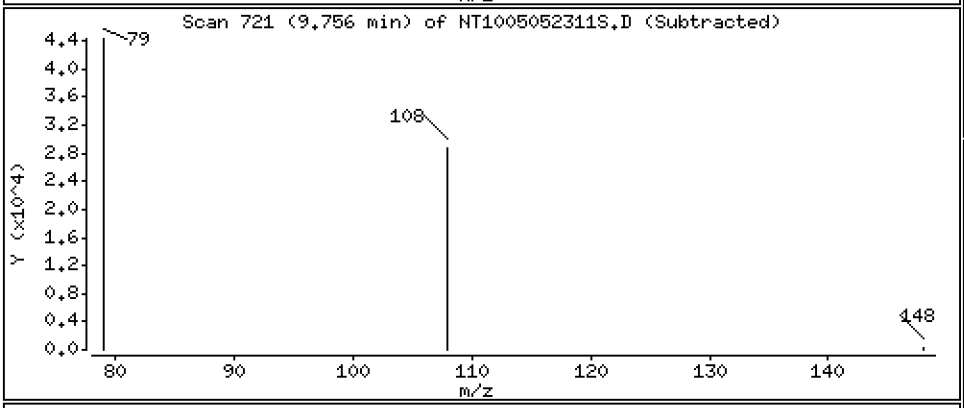
Column diameter: 0.25

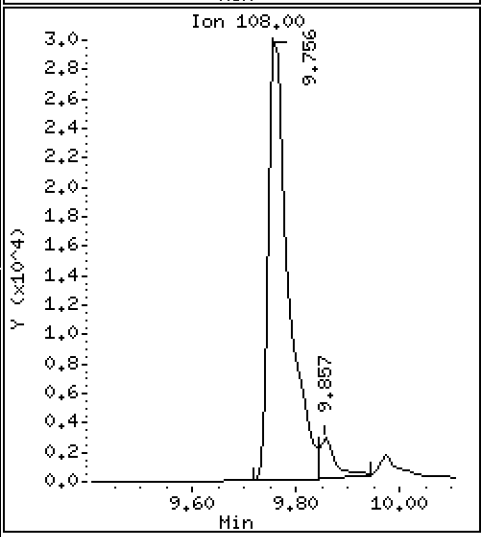
11 Benzyl alcohol

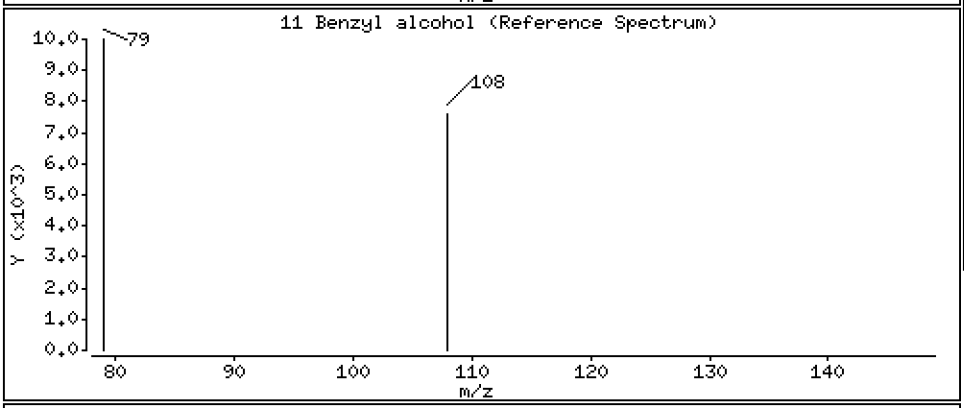
Concentration: 2.514 ug/L

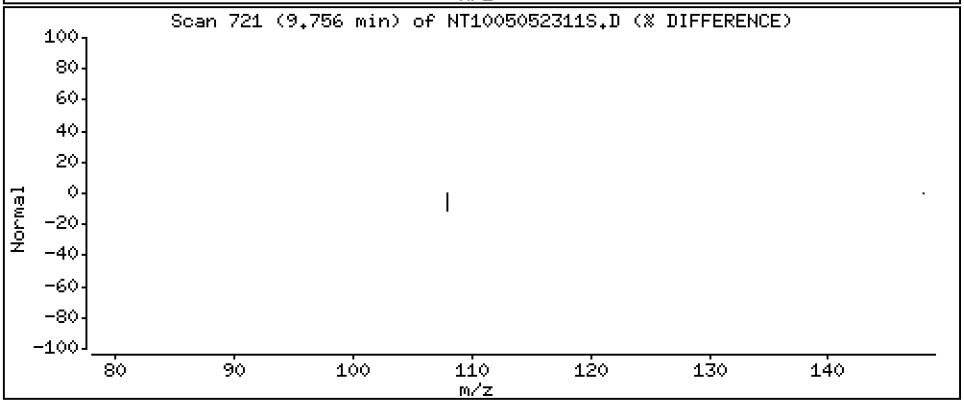












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

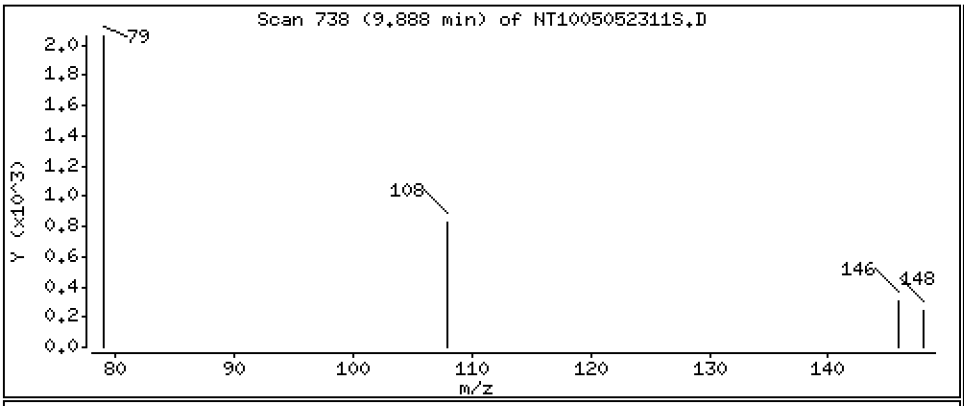
Operator: DSD

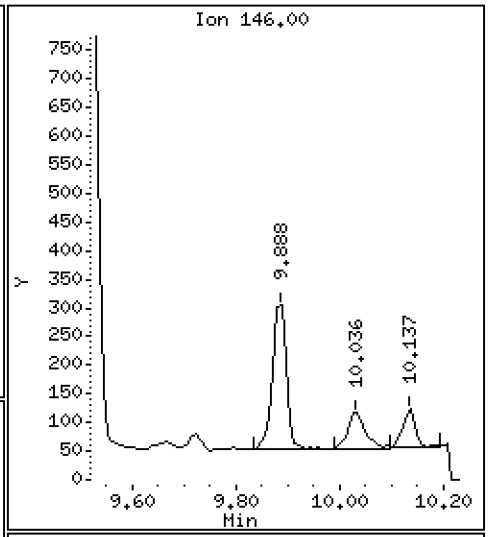
Column phase: ZB-5msi

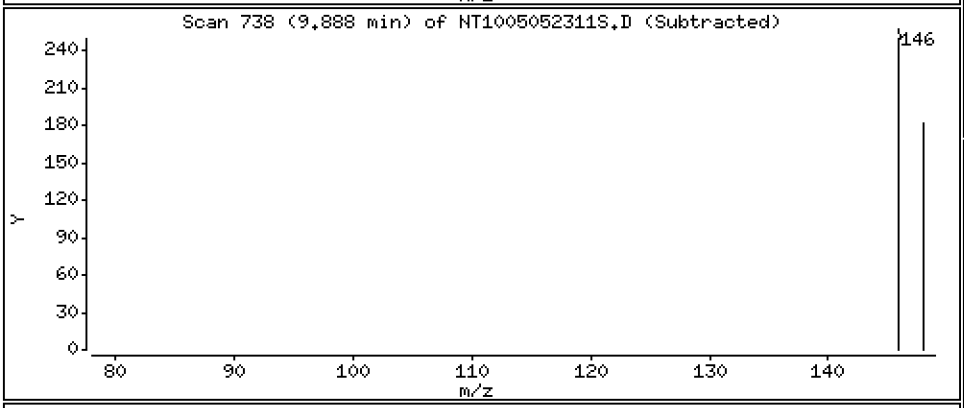
Column diameter: 0.25

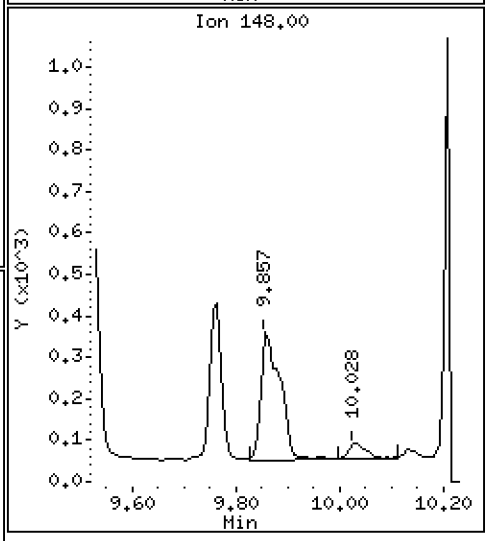
12 1,2-Dichlorobenzene

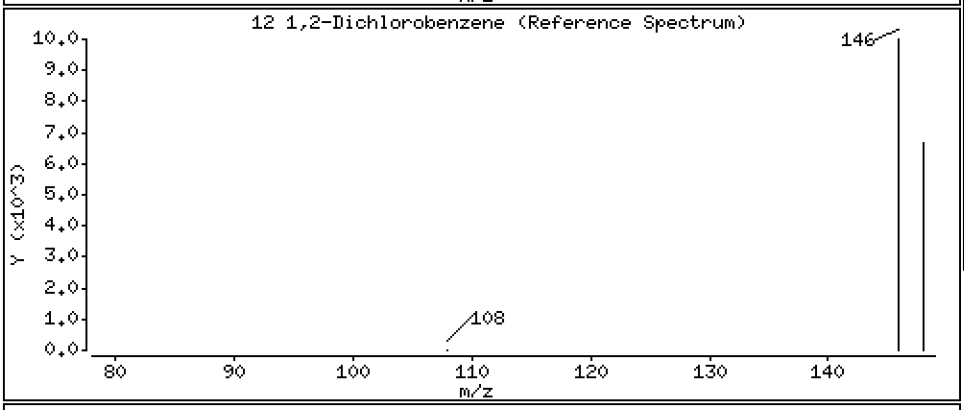
Concentration: 0.006446 ug/L

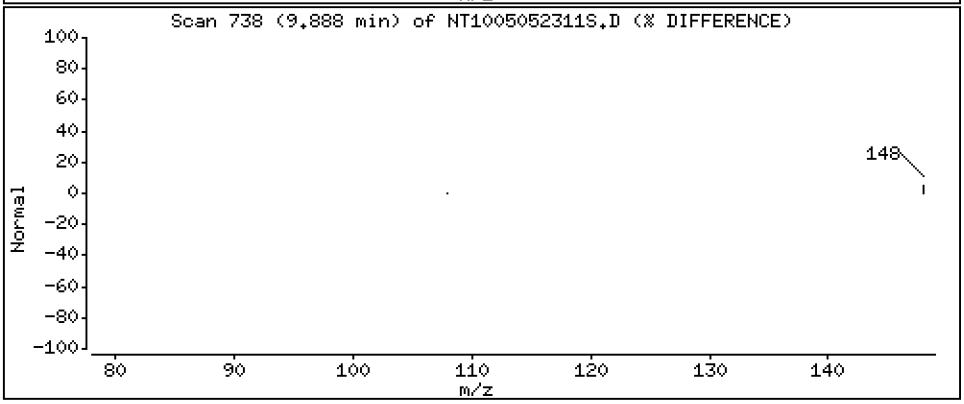












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

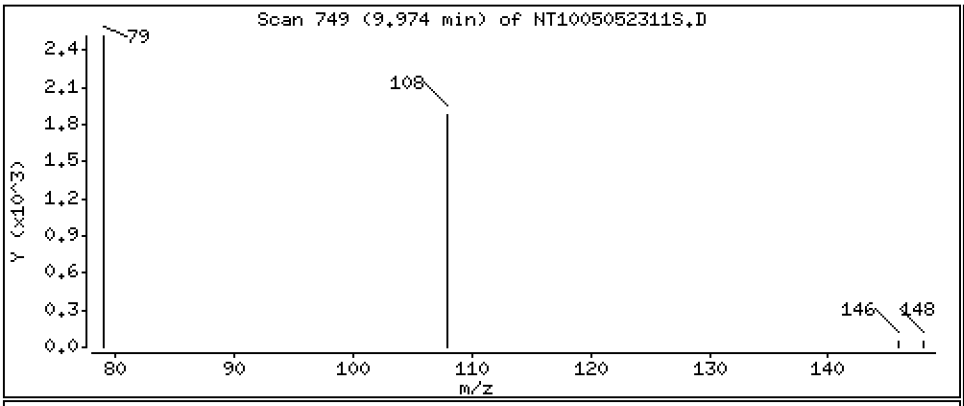
Operator: DSD

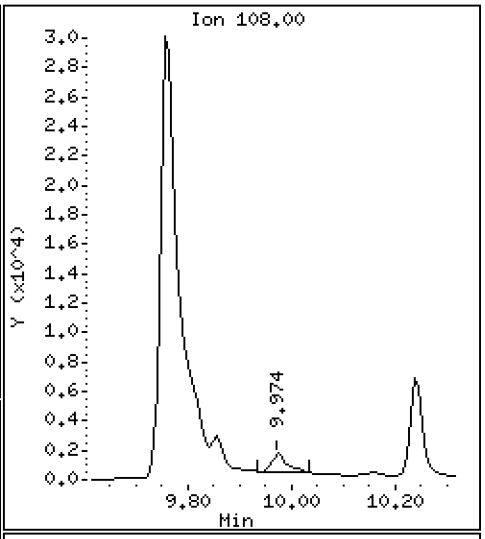
Column phase: ZB-5msi

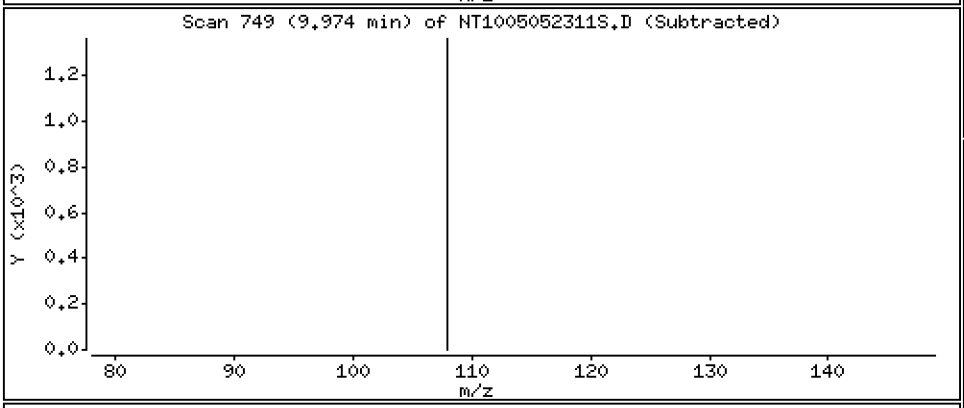
Column diameter: 0.25

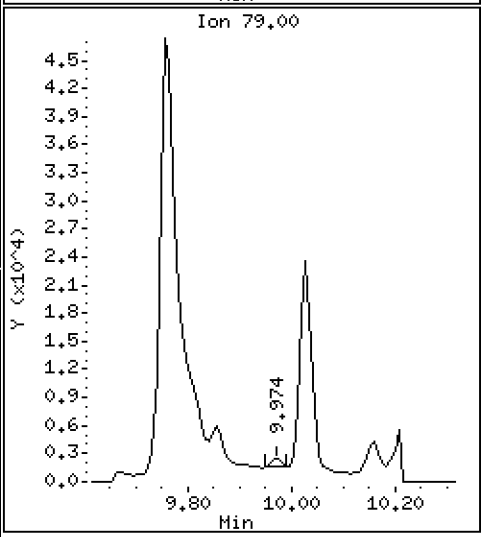
13 2-Methylphenol

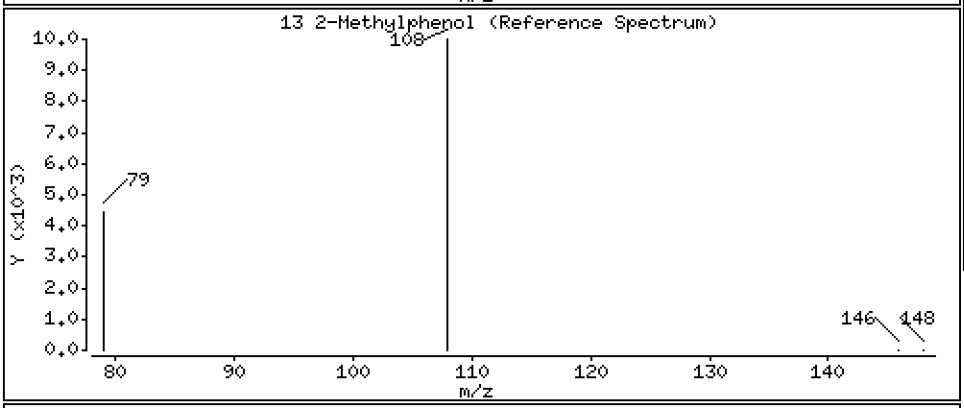
Concentration: 0.04729 ug/L

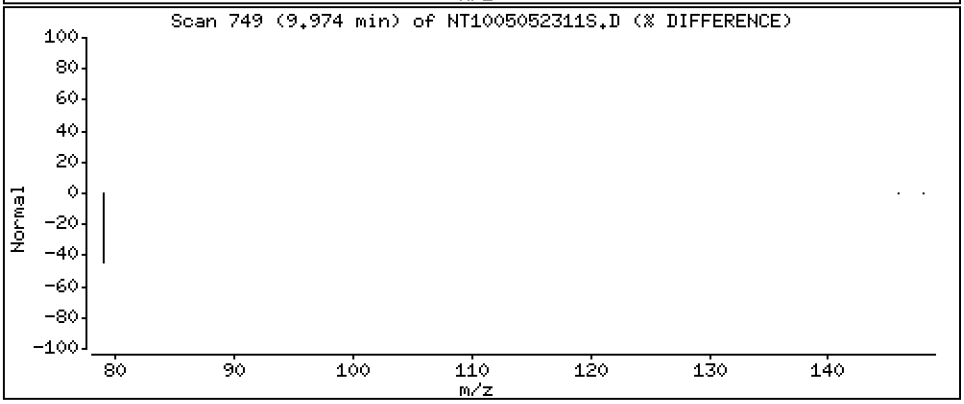












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

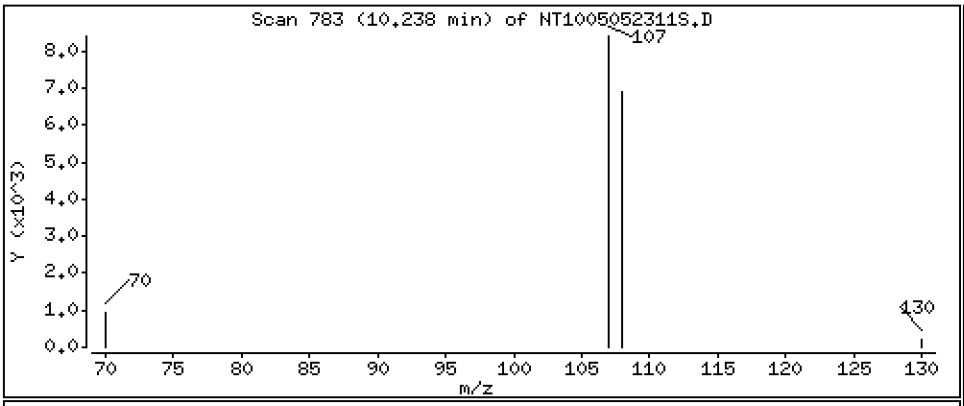
Operator: DSD

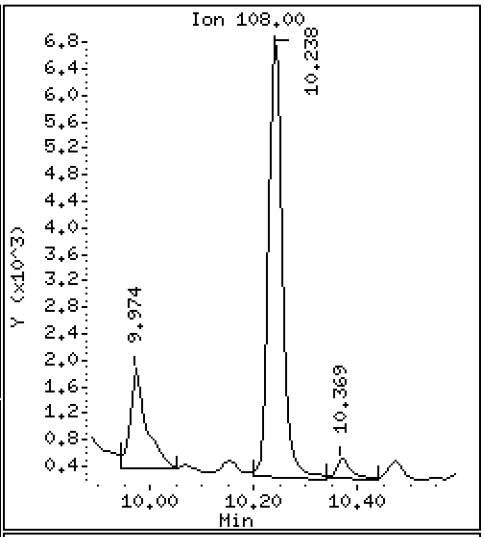
Column phase: ZB-5msi

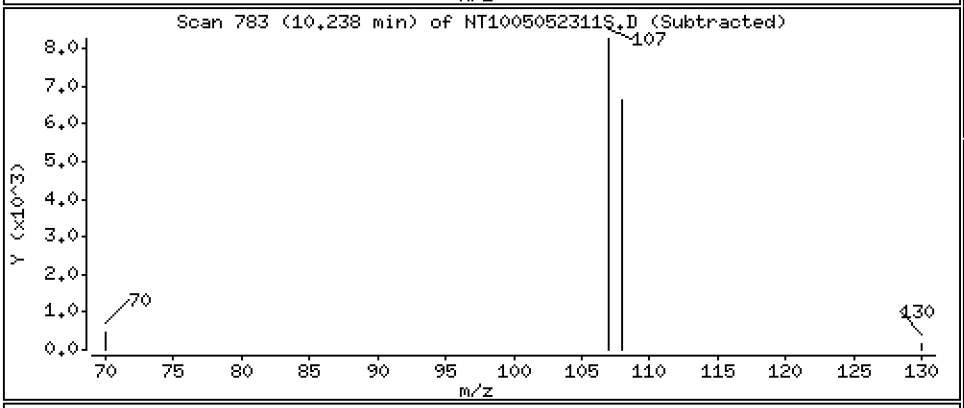
Column diameter: 0.25

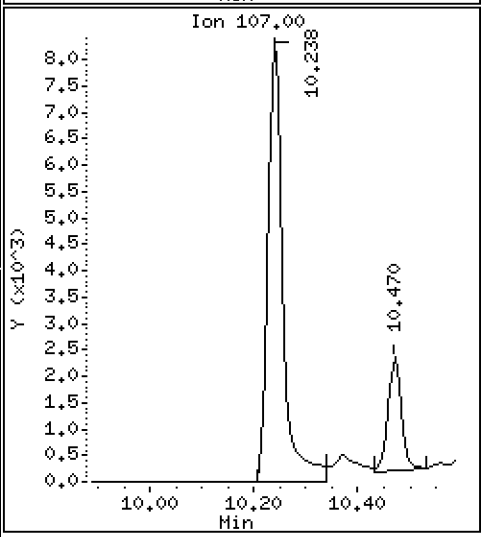
15 4-Methylphenol

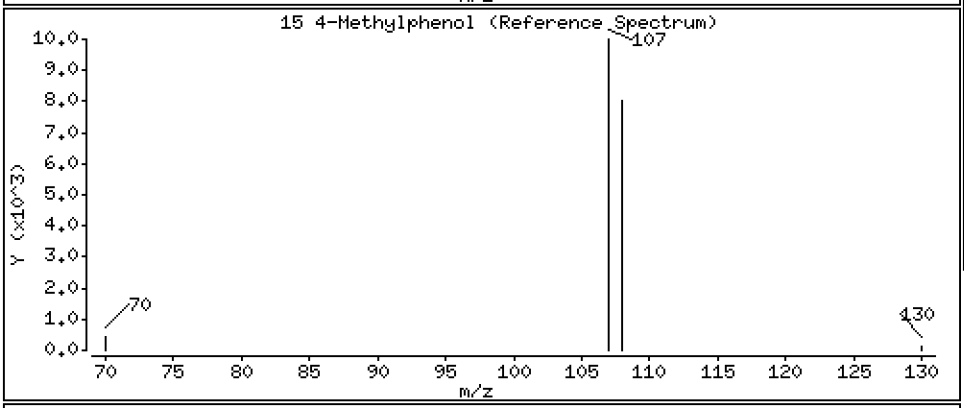
Concentration: 0.2124 ug/L

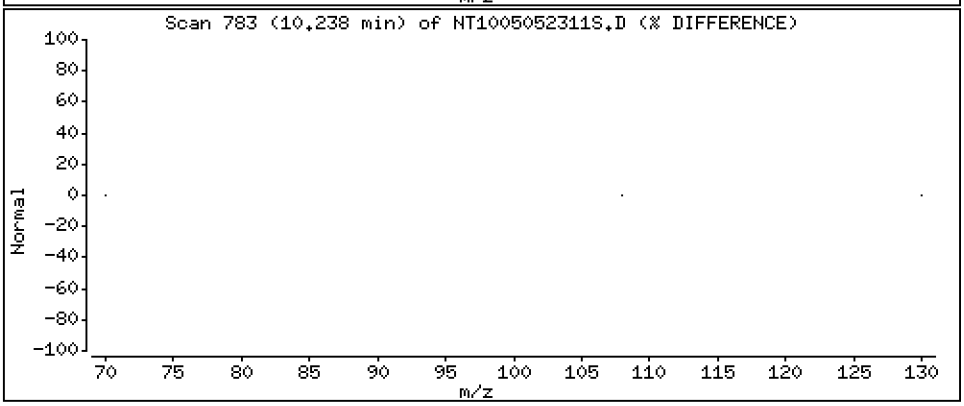












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523115.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

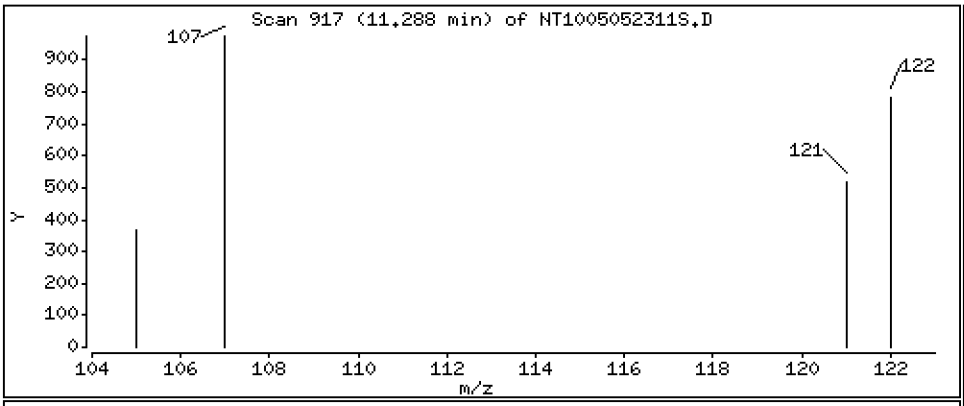
Operator: DSD

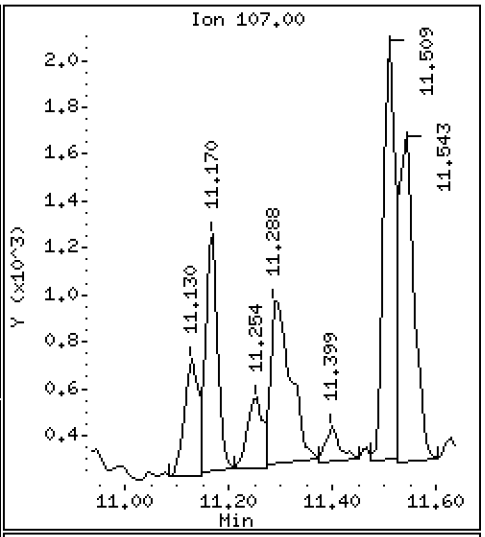
Column phase: ZB-5msi

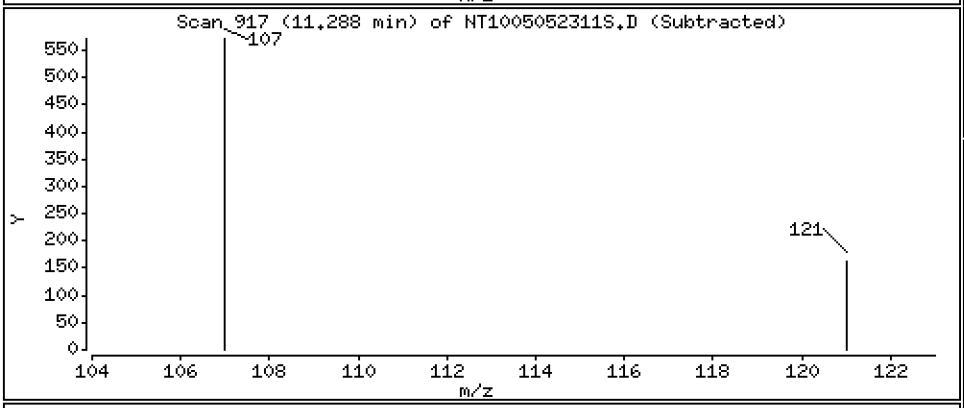
Column diameter: 0.25

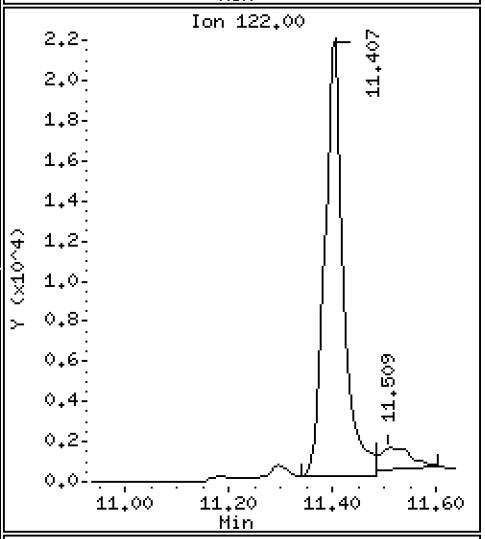
22 2,4-Dimethylphenol

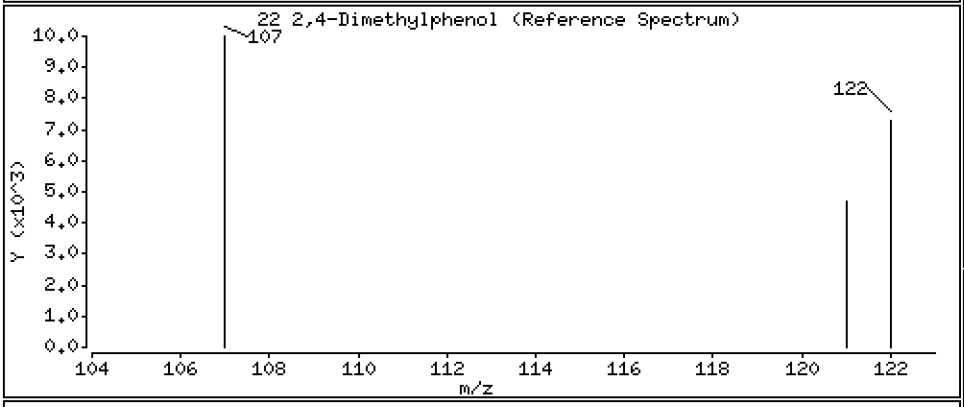
Concentration: 0.02836 ug/L

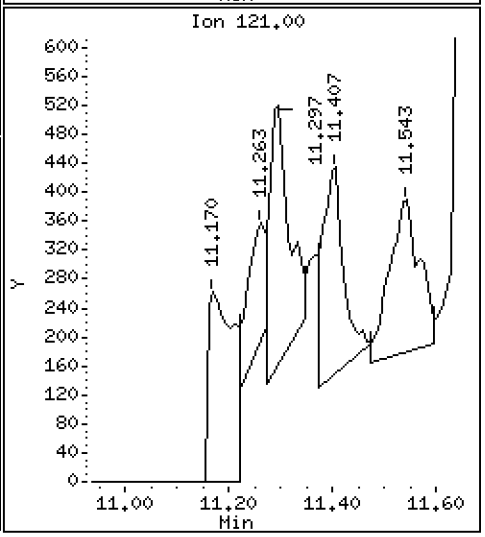


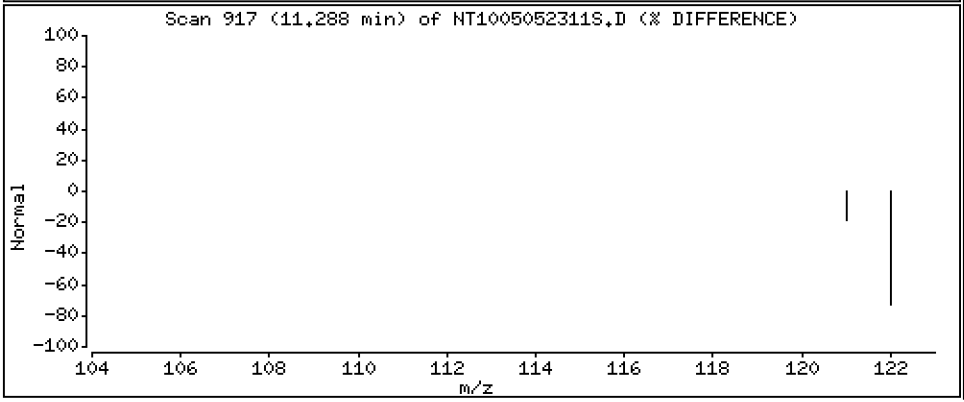












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523115.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

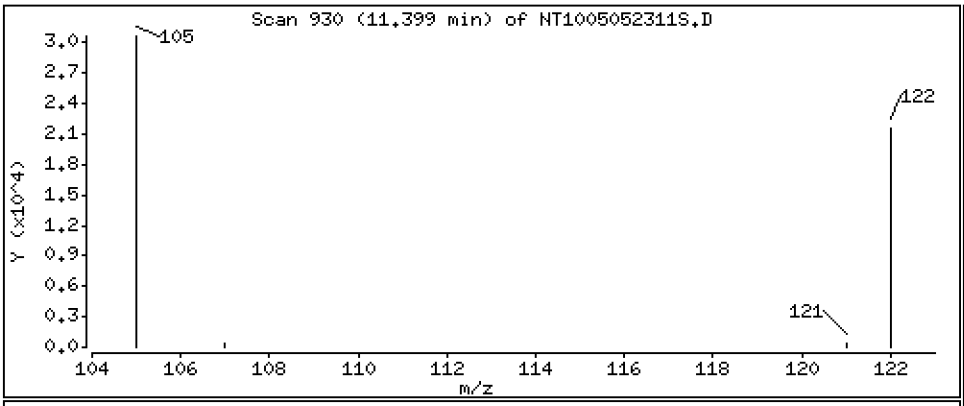
Operator: DSD

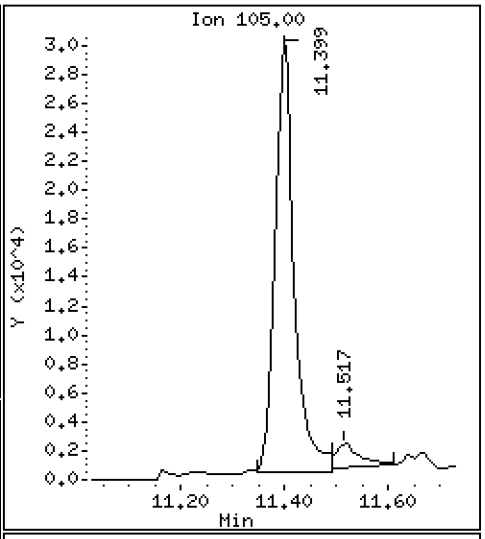
Column phase: ZB-5msi

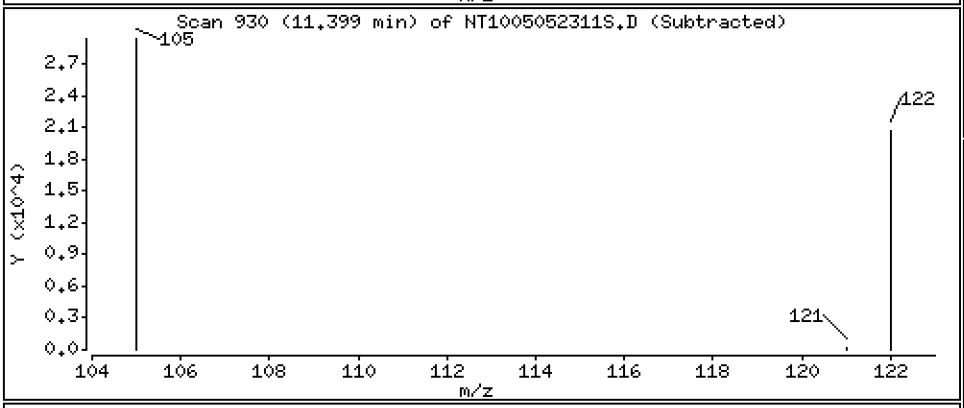
Column diameter: 0.25

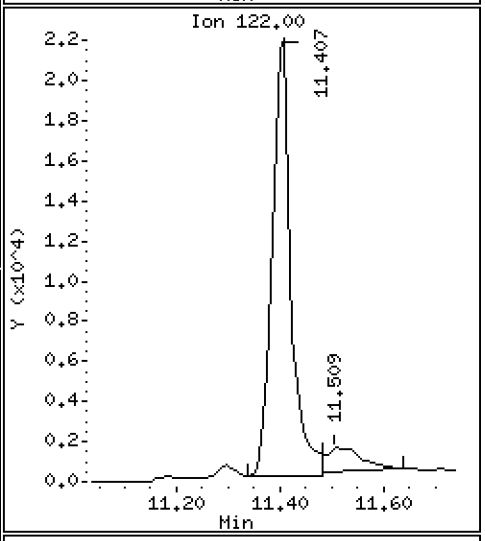
24 Benzoic acid

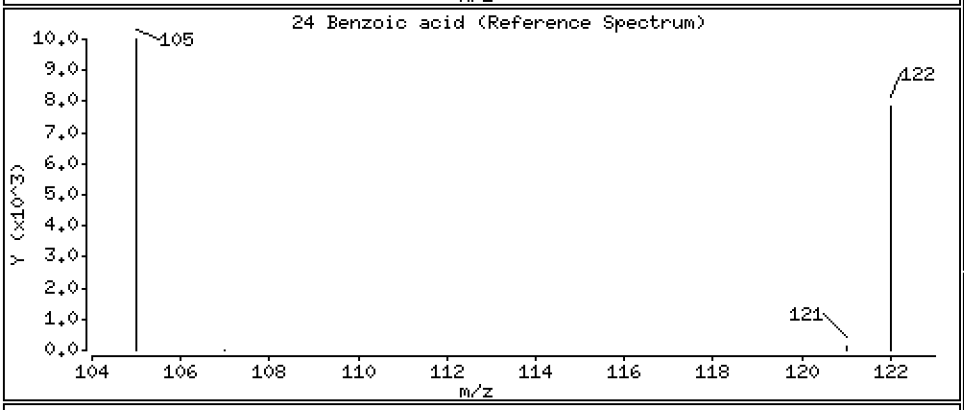
Concentration: 1.706 ug/L

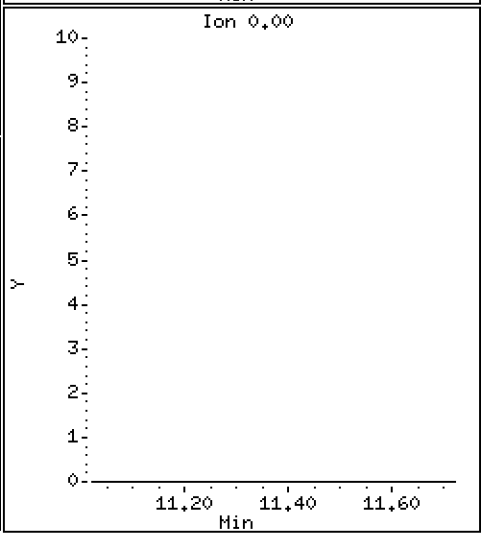


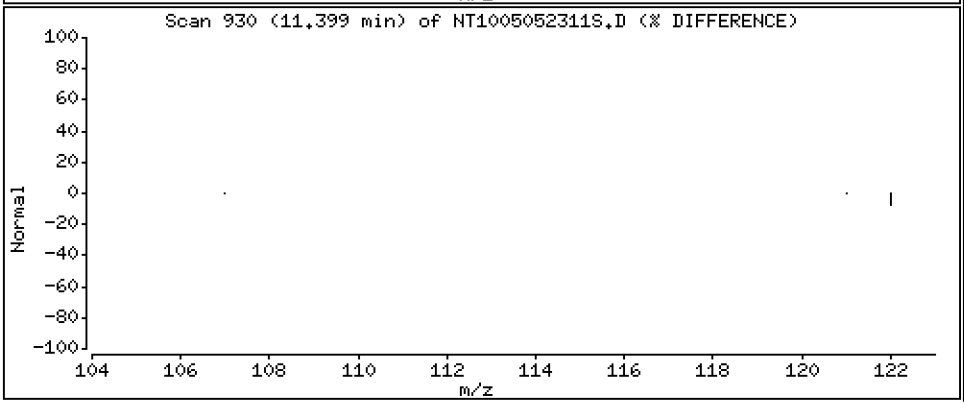












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523115.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

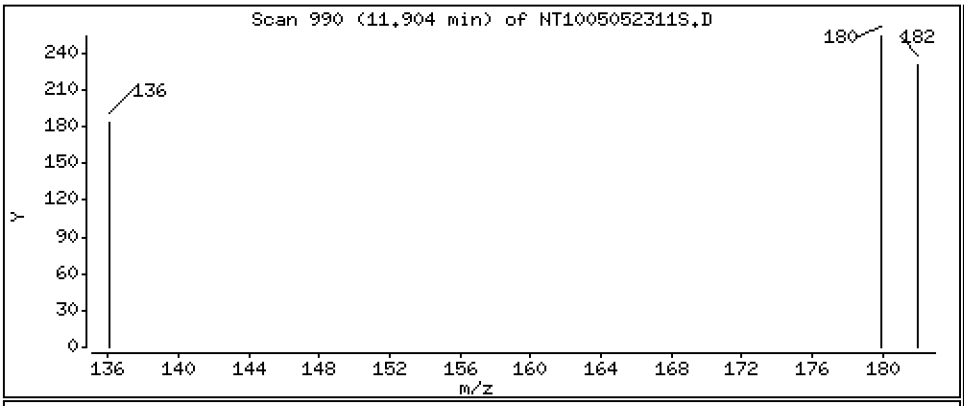
Operator: DSD

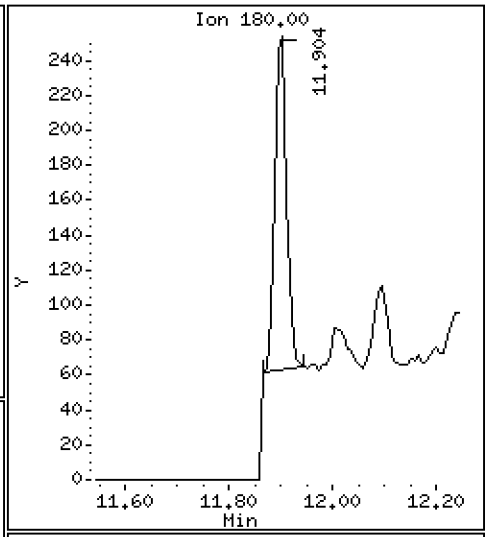
Column phase: ZB-5msi

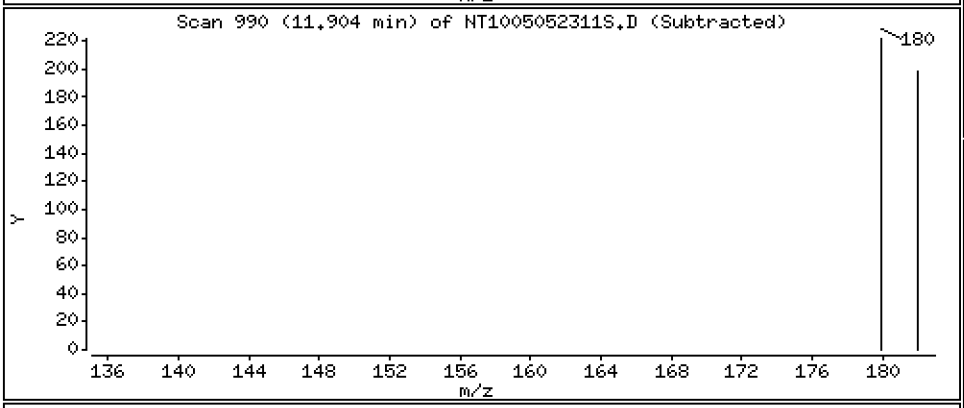
Column diameter: 0.25

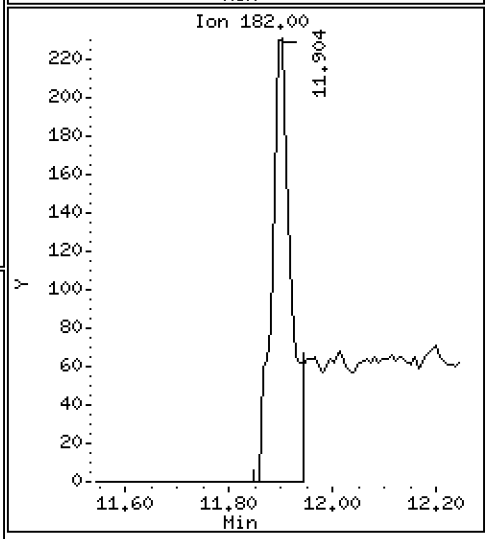
26 1,2,4-Trichlorobenzene

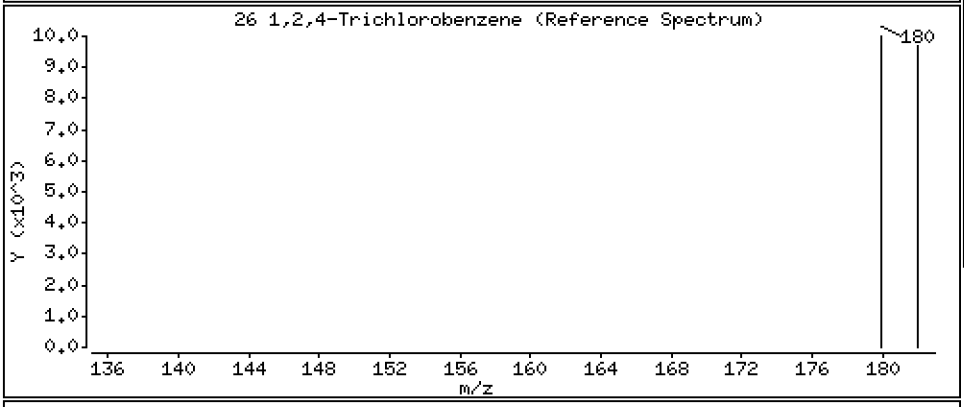
Concentration: 0.004220 ug/L

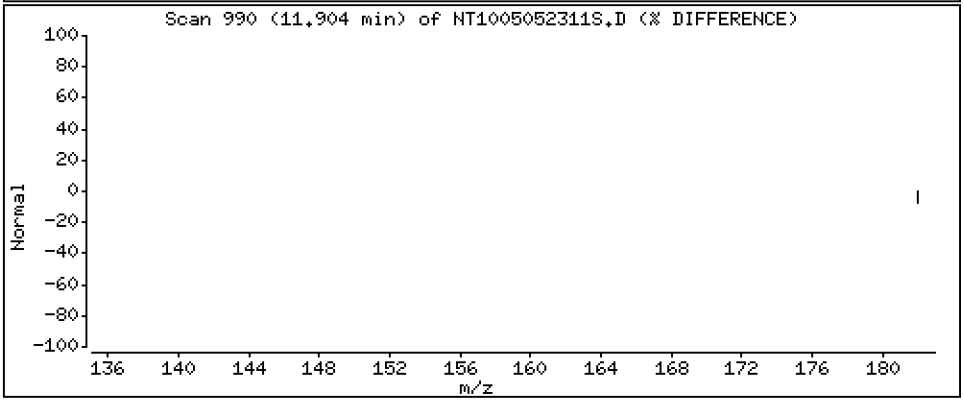












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

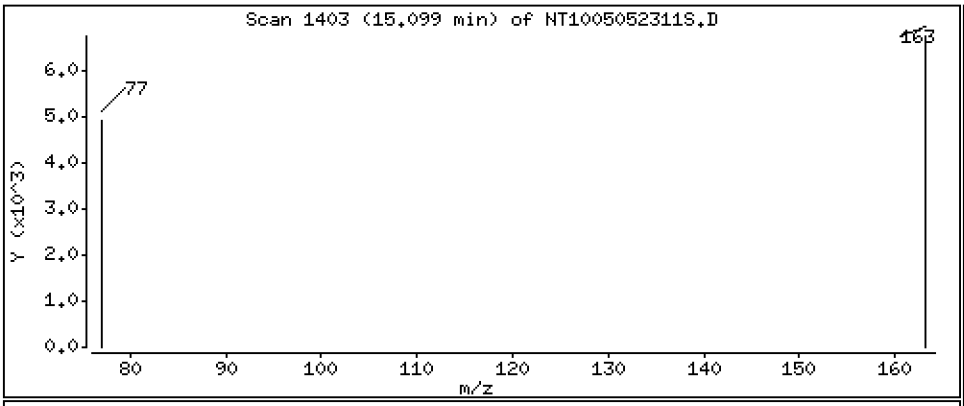
Operator: DSD

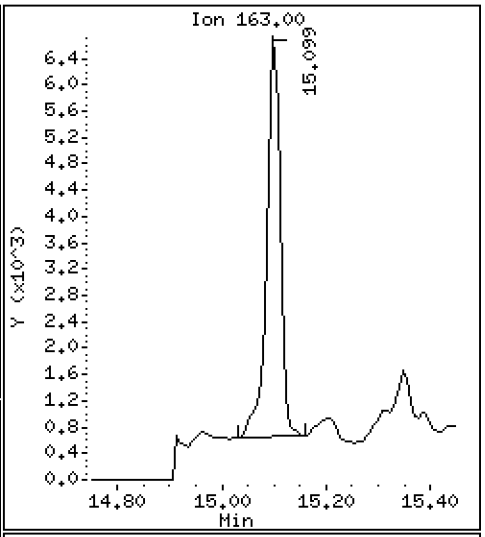
Column phase: ZB-5msi

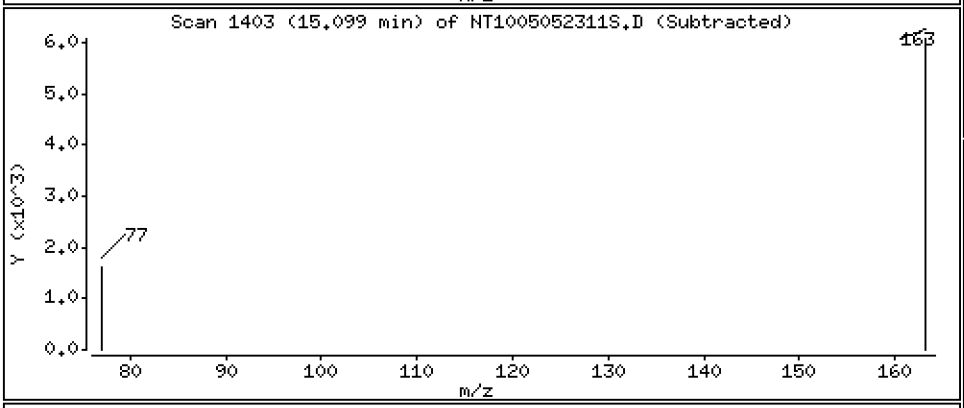
Column diameter: 0.25

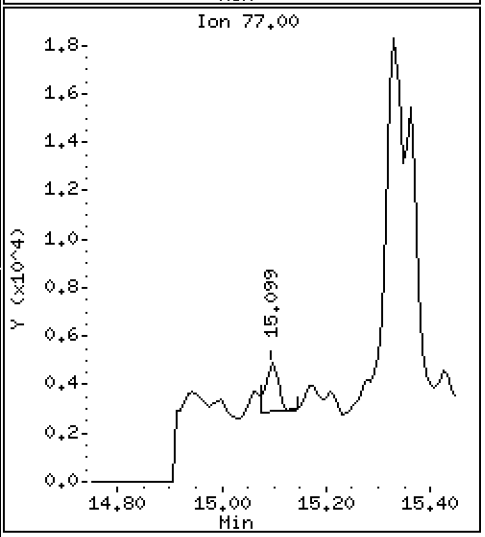
39 Dimethylphthalate

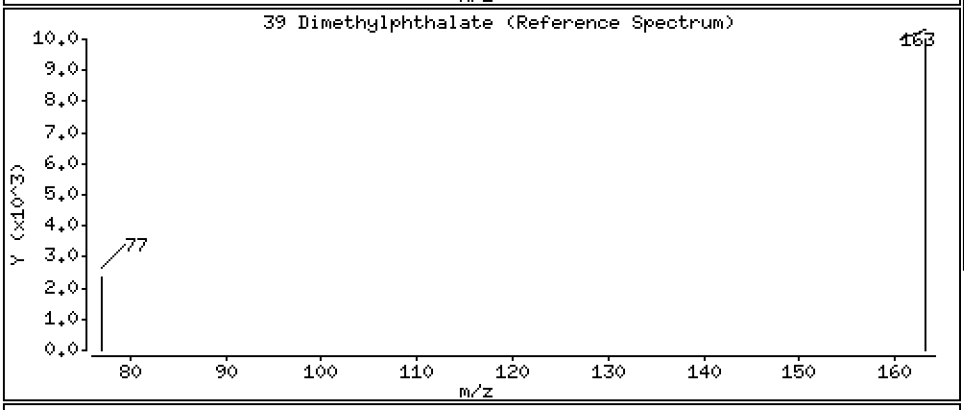
Concentration: 0.08012 ug/L

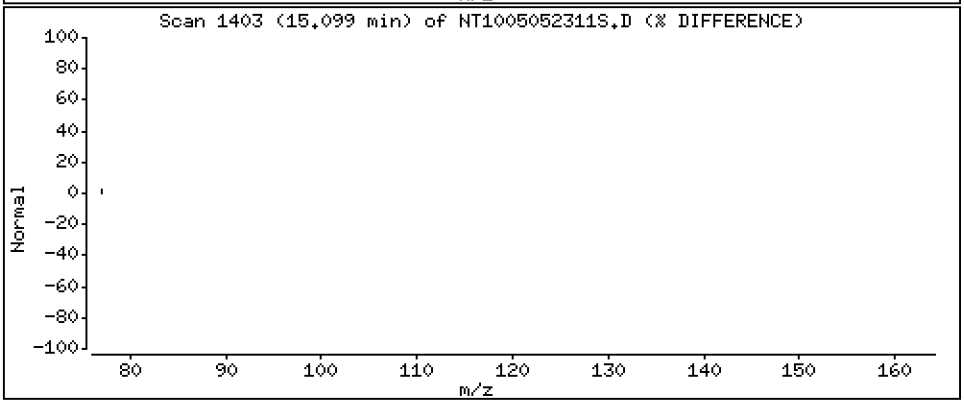












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

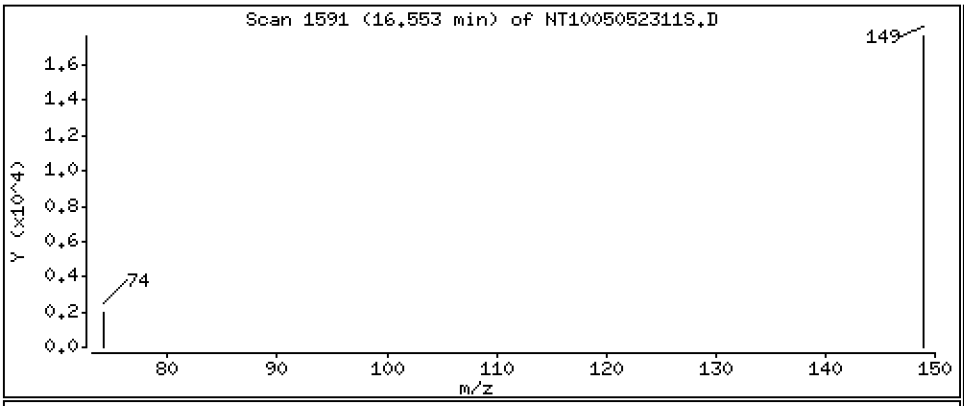
Operator: DSD

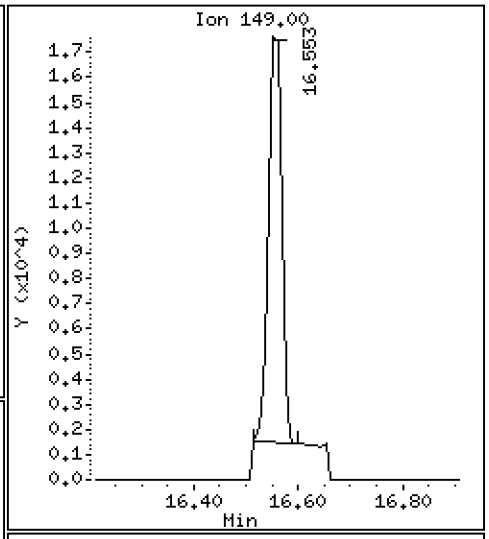
Column phase: ZB-5msi

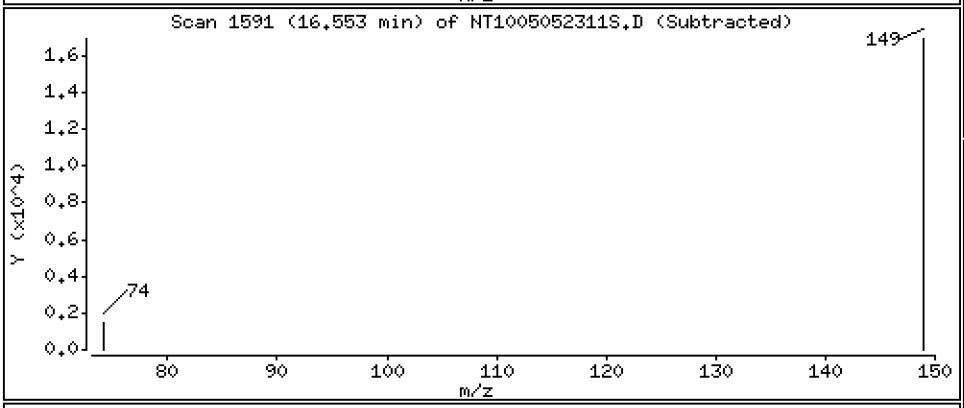
Column diameter: 0.25

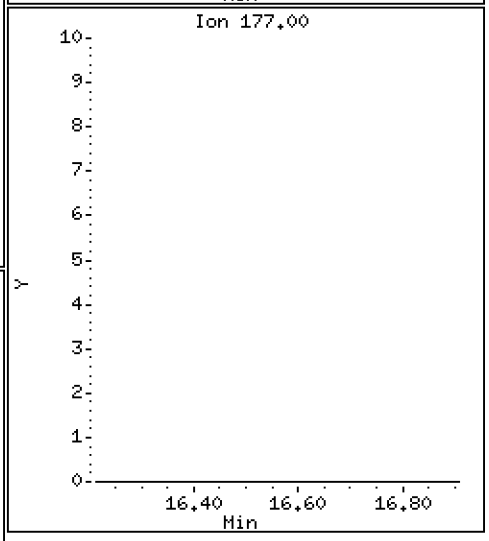
50 Diethylphthalate

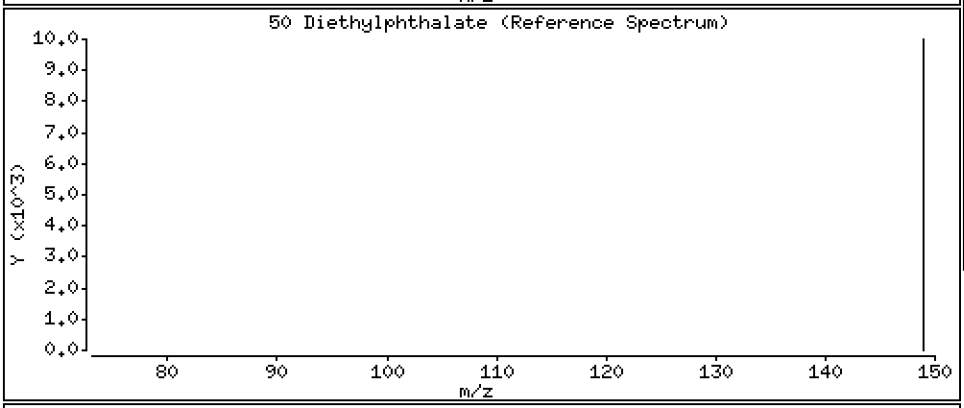
Concentration: 0.1946 ug/L

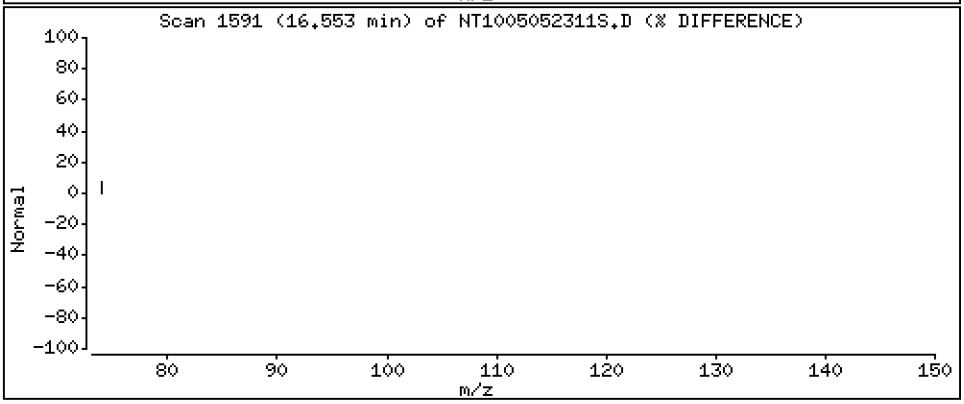












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Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

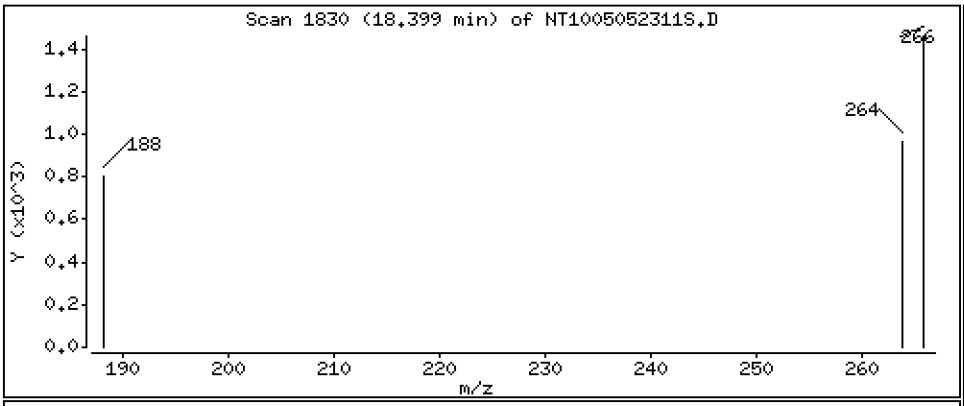
Operator: DSD

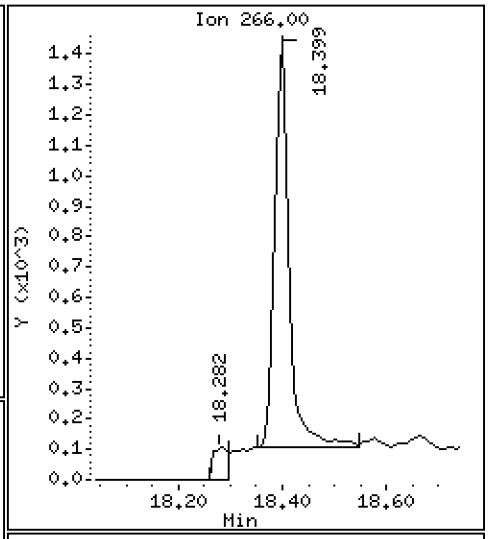
Column phase: ZB-5msi

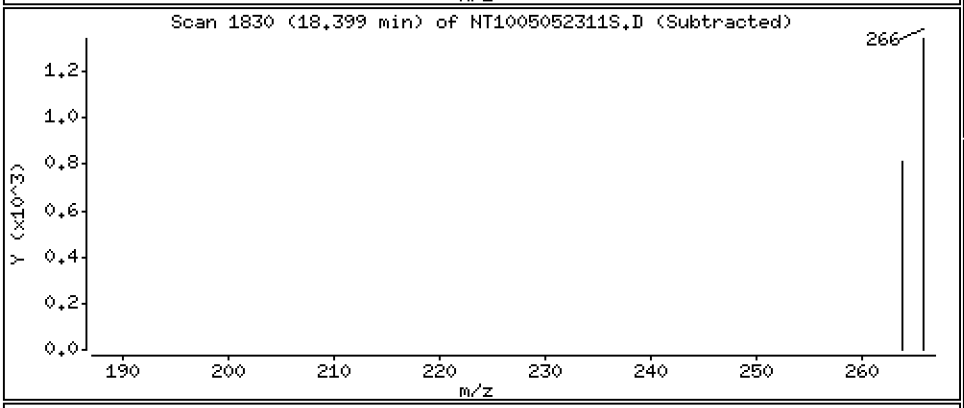
Column diameter: 0.25

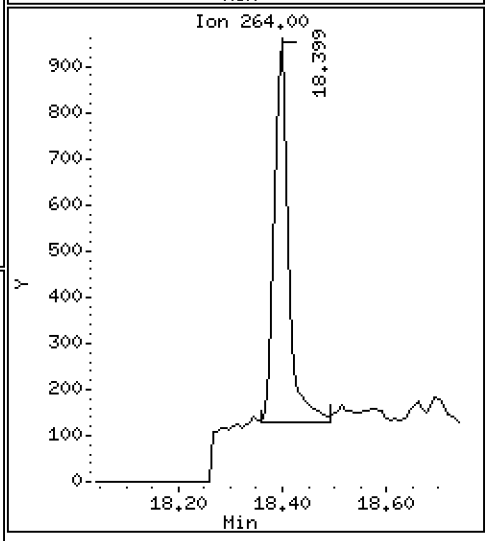
58 Pentachlorophenol

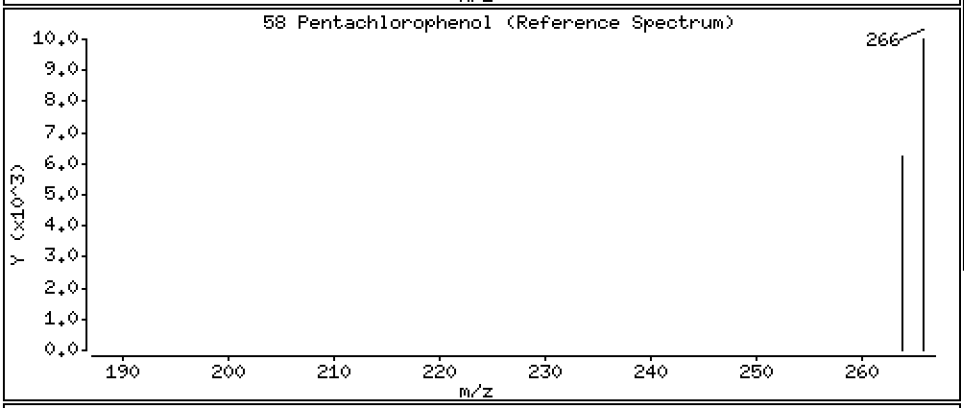
Concentration: 0.09065 ug/L

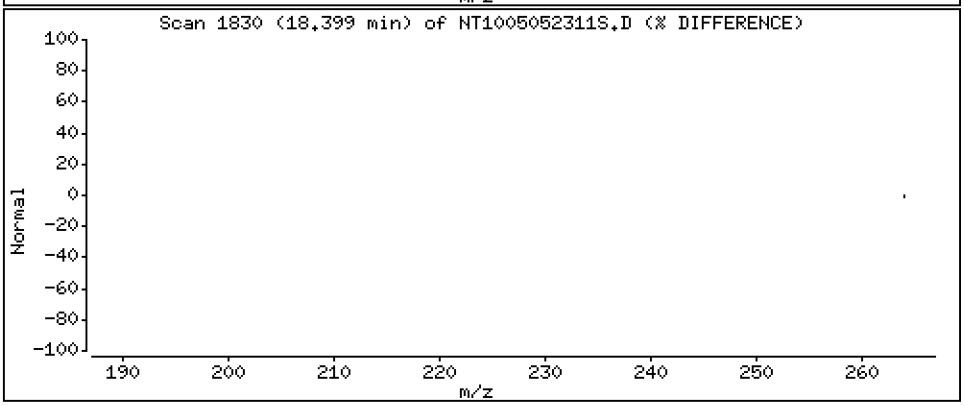












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

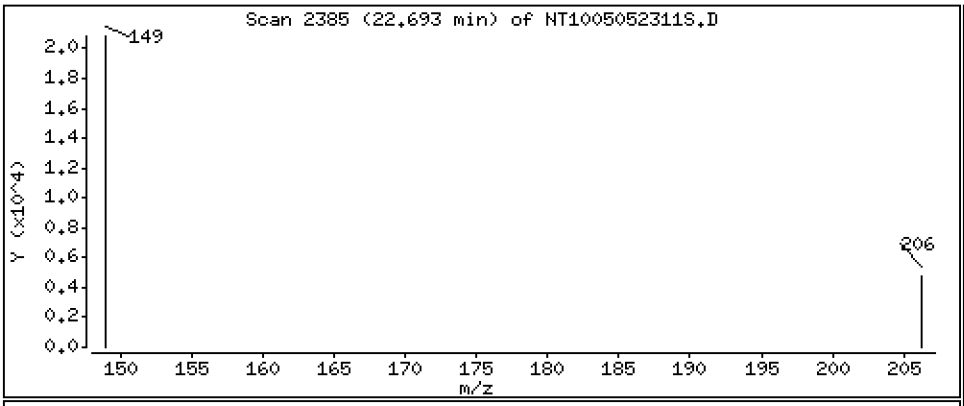
Operator: DSD

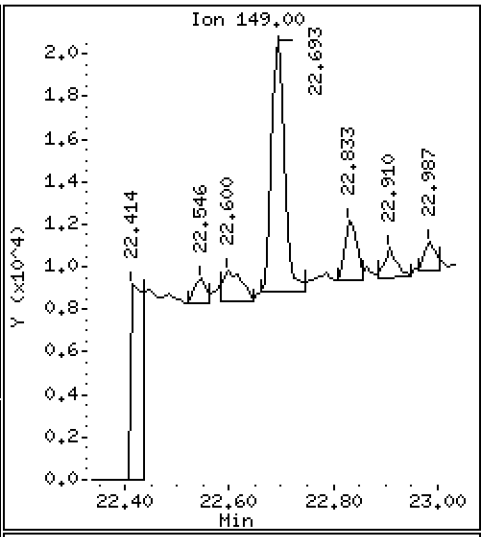
Column phase: ZB-5msi

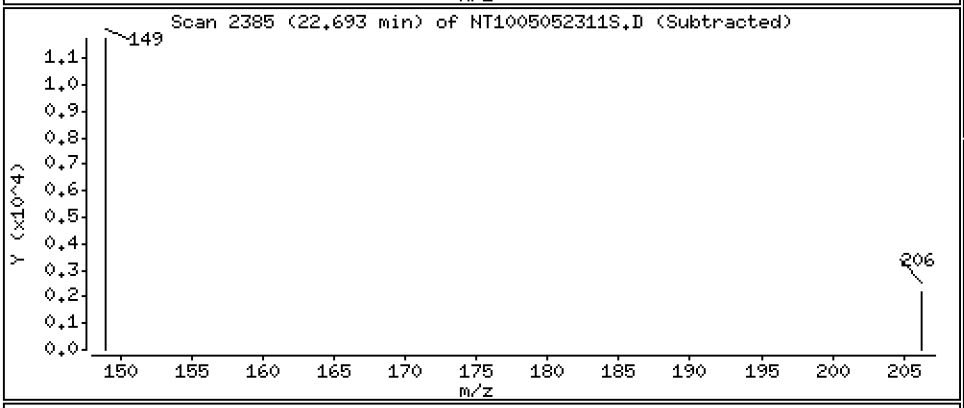
Column diameter: 0.25

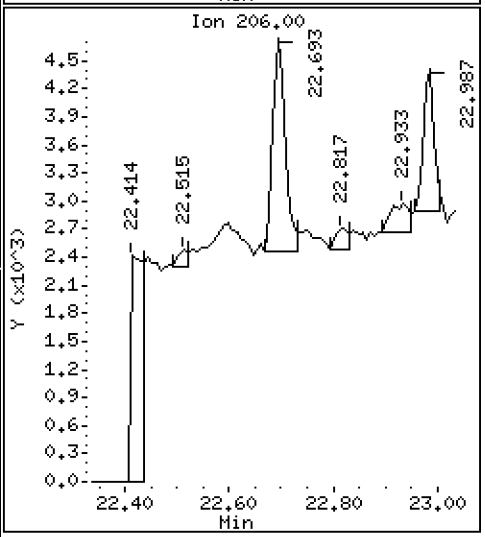
67 Butylbenzylphthalate

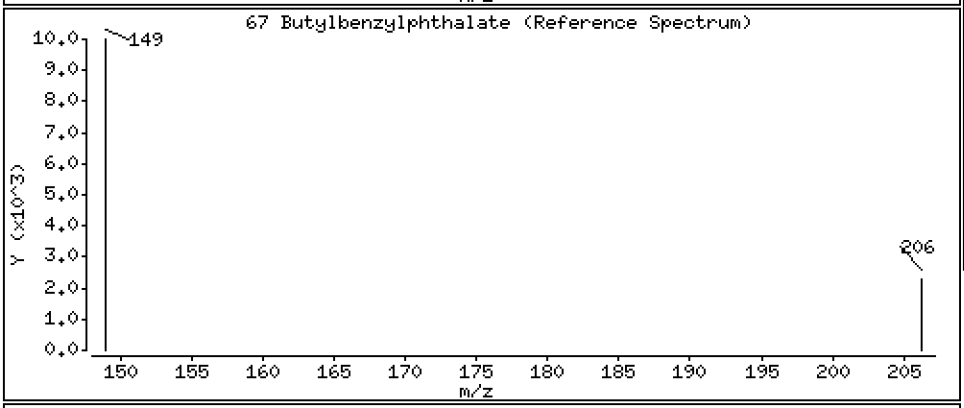
Concentration: 0.2059 ug/L

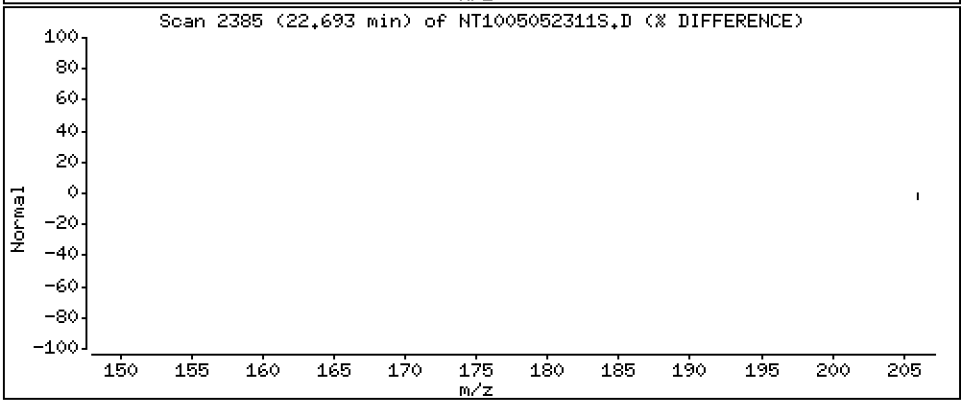












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D

Date : 05-MAY-2023 17:15

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-01

Volume Injected (uL): 1.0

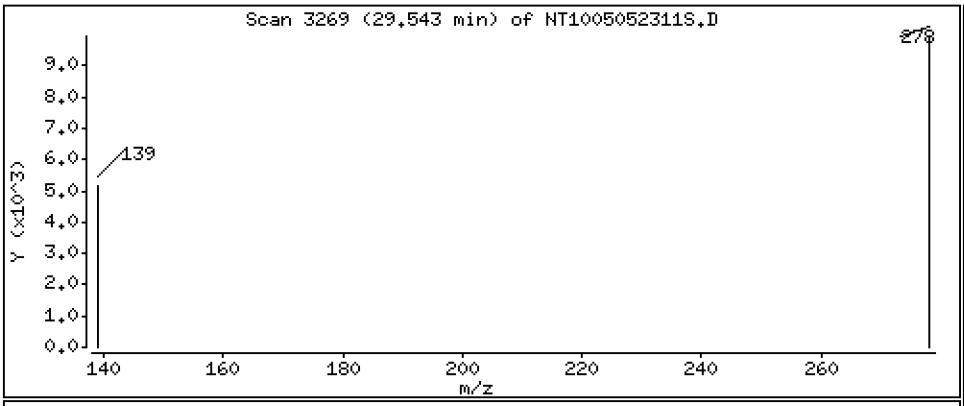
Operator: DSD

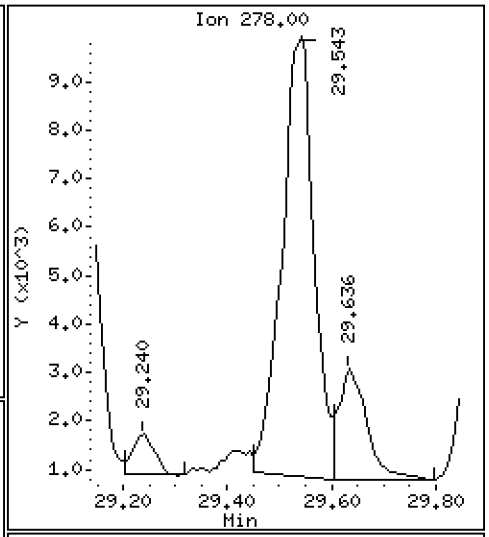
Column phase: ZB-5msi

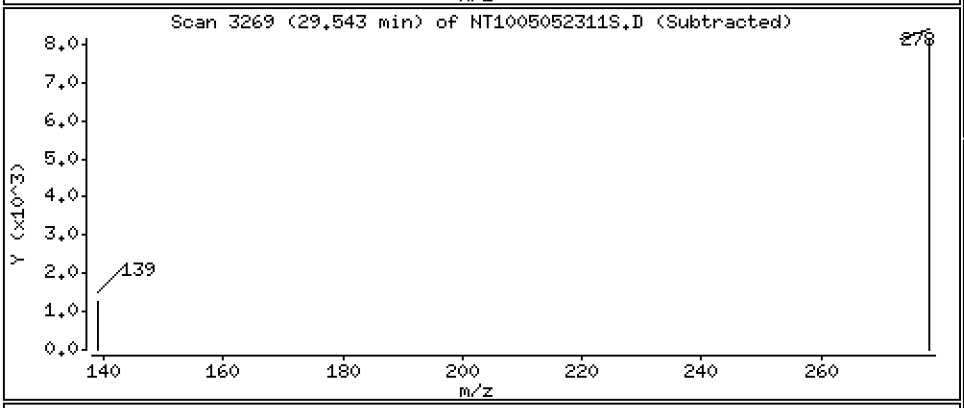
Column diameter: 0.25

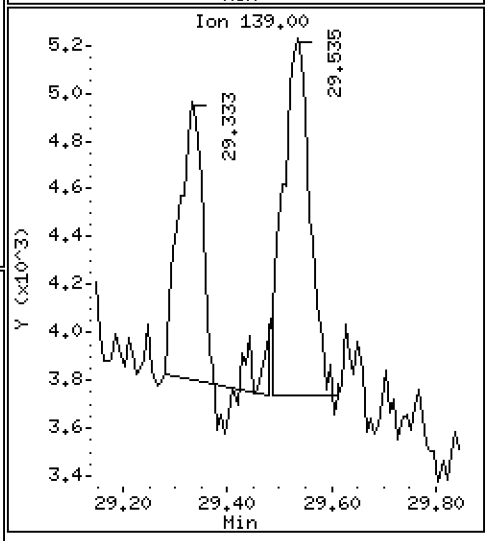
79 Dibenzo(a,h)anthracene

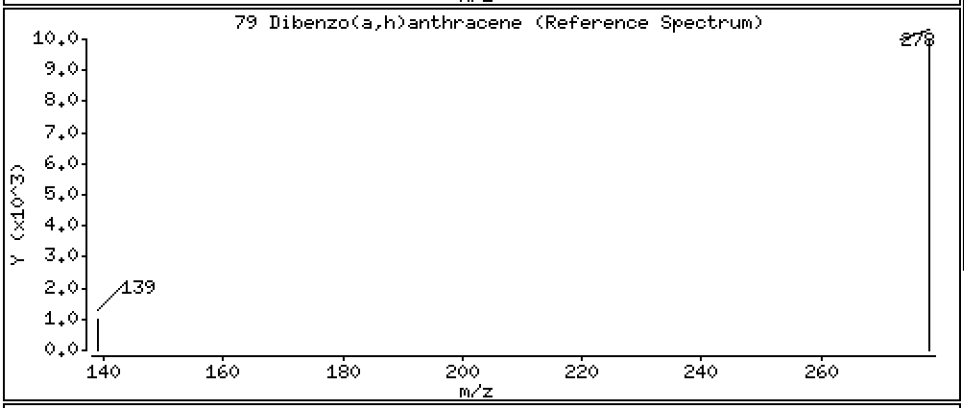
Concentration: 0.2598 ug/L

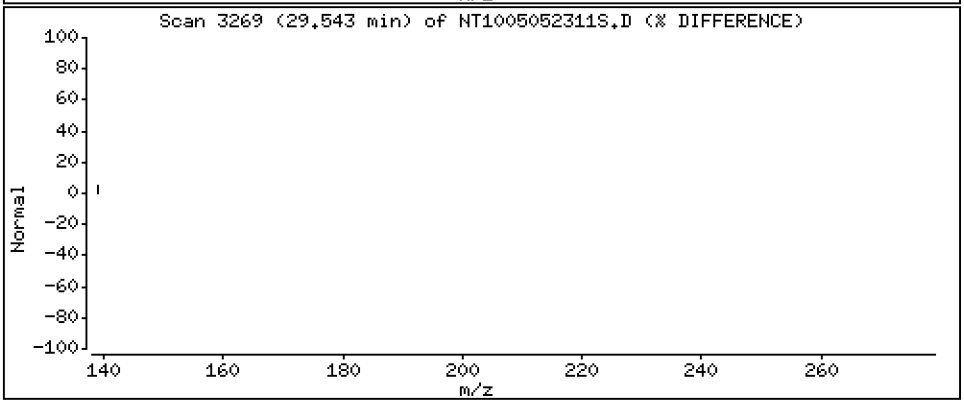












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052311S.D
Lab Smp Id: 23D0136-01
Inj Date : 05-MAY-2023 17:15 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23D0136-01
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.762)	210458	3.74972	3.750(R)
3	Phenol	94	8.850	8.842	(0.932)	979265	13.9287	13.93
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.500	9.492	(1.000)	184248	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.002)	1349	0.01842	0.01842
11	Benzyl alcohol	79	9.756	9.756	(1.027)	122241	2.51424	2.514
12	1,2-Dichlorobenzene	146	9.888	9.880	(1.041)	454	0.00645	0.006446
13	2-Methylphenol	108	9.973	9.965	(1.050)	2488	0.04729	0.04729(M)
15	4-Methylphenol	108	10.237	10.237	(1.078)	11748	0.21235	0.2124
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	11.288	11.288	(0.942)	1939	0.02836	0.02836
24	Benzoic acid	105	11.398	11.381	(0.951)	76263	1.70552	1.706
26	1,2,4-Trichlorobenzene	180	11.904	11.896	(0.993)	296	0.00422	0.004220(M)
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	688156	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	15.099	15.099	(0.967)	10393	0.08012	0.08012(M)
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	342198	4.00000	
50	Diethylphthalate	149	16.553	16.560	(1.060)	27103	0.19459	0.1946(M)
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.390	(0.985)	2519	0.09065	0.09065
*	59 Phenanthrene-d10	188	18.669	18.669	(1.000)	726795	4.00000	
$	66 Terphenyl-d14	244	21.779	21.771	(0.919)	495384	4.25922	4.259(R)
	67 Butylbenzylphthalate	149	22.693	22.685	(0.958)	19544	0.20587	0.2059
*	69 Chrysene-d12	240	23.699	23.684	(1.000)	539399	4.00000	
*	77 Perylene-d12	264	26.548	26.517	(1.000)	475433	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.542	29.496	(1.113)	39872	0.25981	0.2598
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052311S.D
Lab Smp Id: 23D0136-01
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	184248	0.85
27 Naphthalene-d8	662220	331110	1324440	688156	3.92
42 Acenaphthene-d10	335558	167779	671116	342198	1.98
59 Phenanthrene-d10	678190	339095	1356380	726795	7.17
69 Chrysene-d12	566969	283485	1133938	539399	-4.86
77 Perylene-d12	522906	261453	1045812	475433	-9.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.67	0.00
69 Chrysene-d12	23.68	23.18	24.18	23.70	0.07
77 Perylene-d12	26.52	26.02	27.02	26.55	0.12

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

REVIEW SUMMARY FOR FILE - NT1005052311S.D

Lab ID: 23D0136-01
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 17:15

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

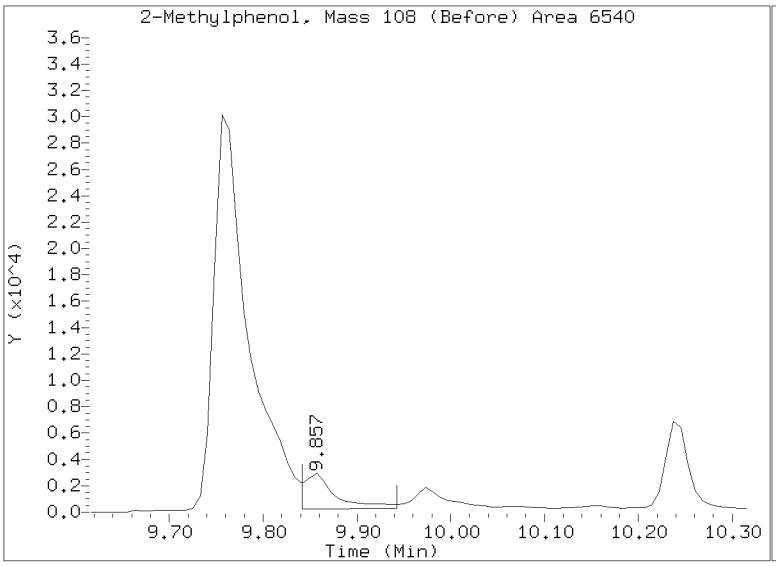
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

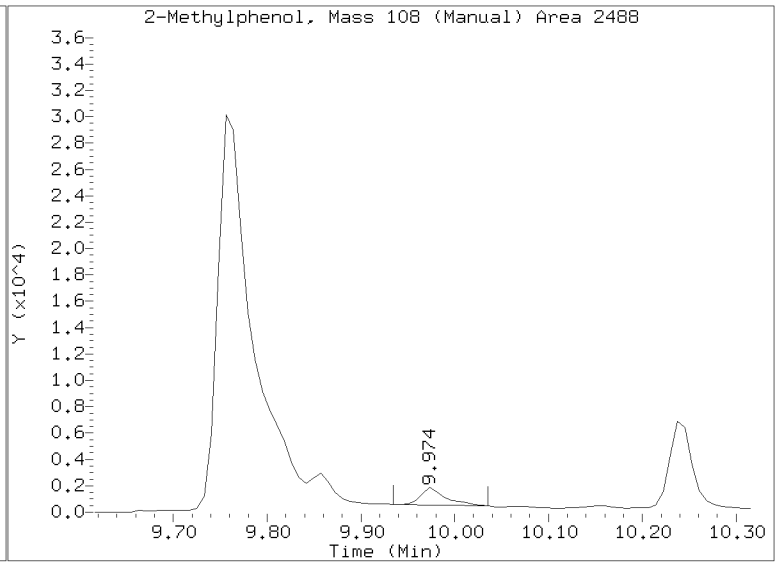
Exception: 1,2,4-Trichlorobenzene 0.0010

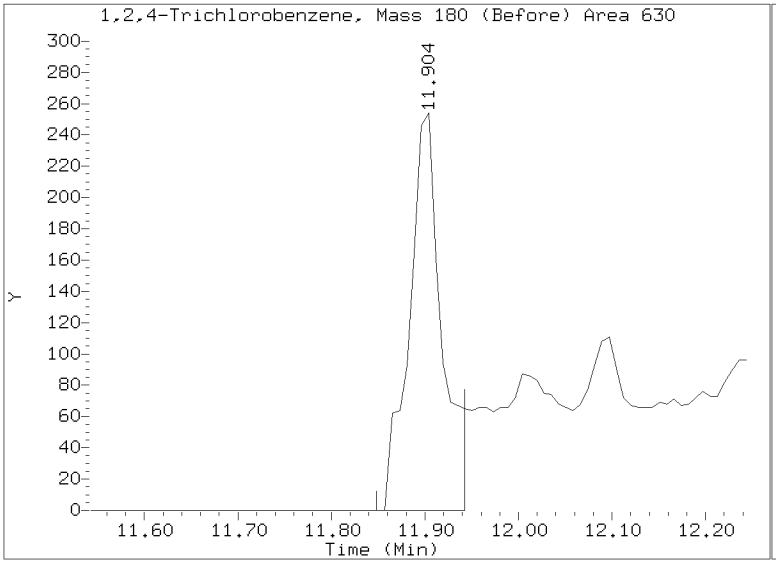
* Only compounds listed in the work order have been verified by the analyst *

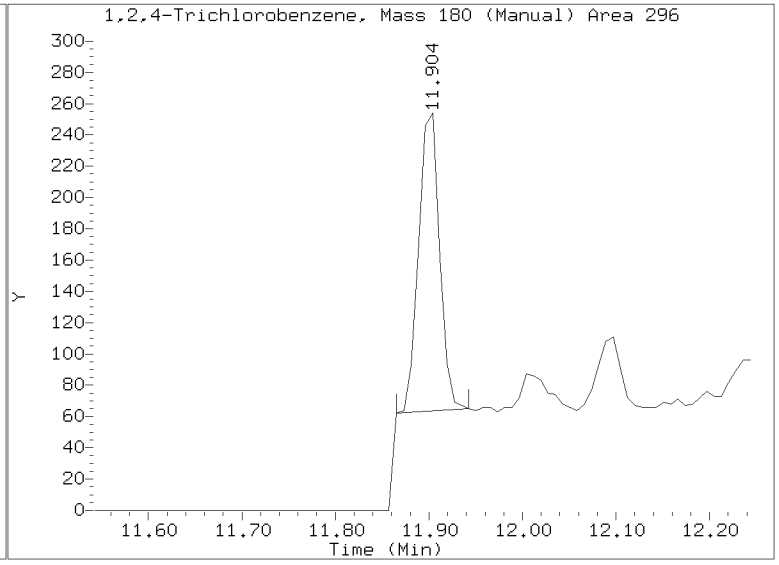
Quant Ion Manual Peak Adjustment Report

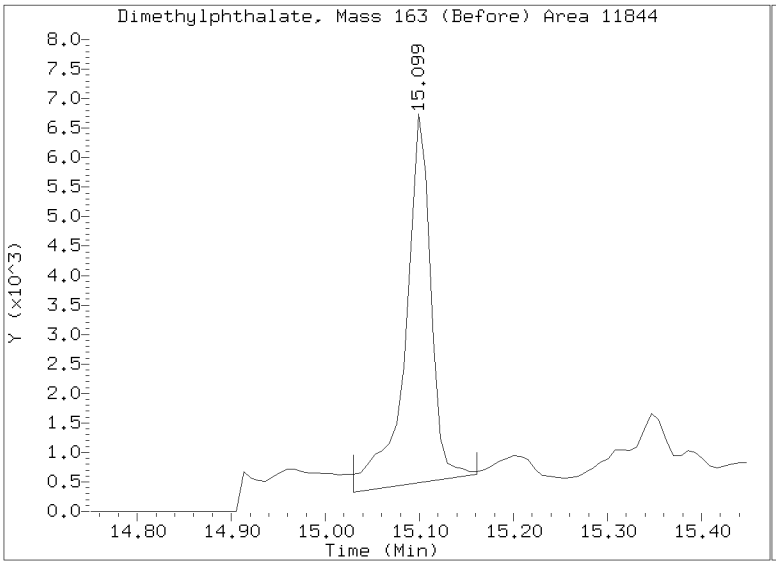
Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052311S.D
Injection Date: 05-MAY-2023 17:15
Lab ID:23D0136-01 Client ID:
Report Date: 05/31/2023 14:31

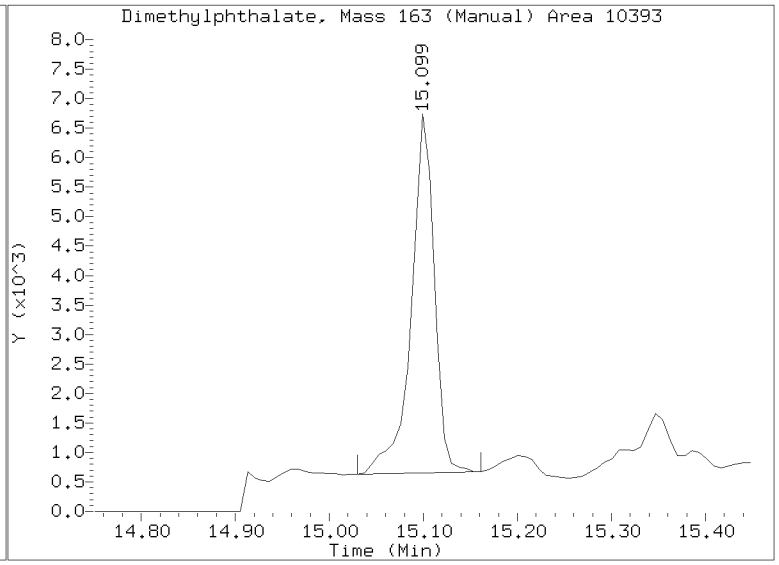






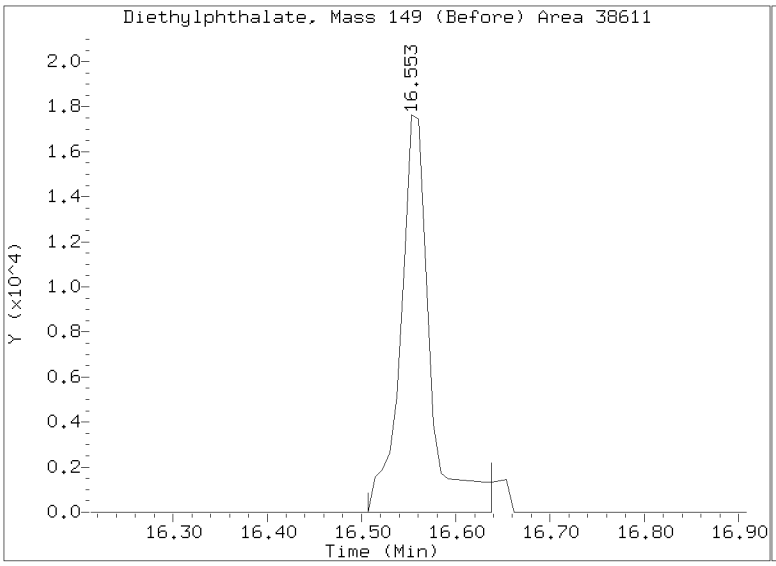


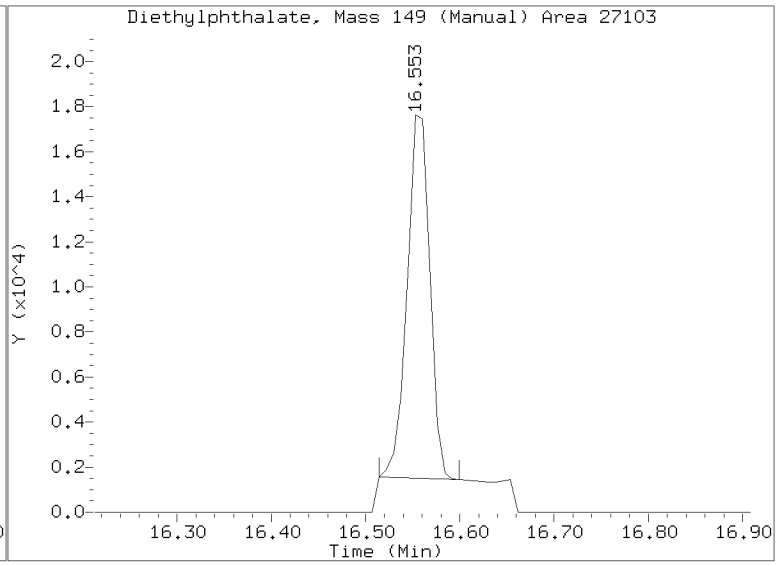




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052311S.D
Injection Date: 05-MAY-2023 17:15
Lab ID:23D0136-01 Client ID:
Report Date: 05/31/2023 14:31





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1803

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 A	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/18/23 11:16	File ID:	NT1005052312S.D
% Solids:	44.31	Preparation:	EPA 3546 (Microwave)	Analyzed:	05/05/23 17:54
Batch:	BLD0329	Sequence:	SLE0466	Initial/Final:	22.58 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GE00018
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.2	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	301		2.5	20.0
65-85-0	Benzoic acid	1	106	Q, J	13.4	200
105-67-9	2,4-Dimethylphenol	1	3.1	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	5.4	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.61	543	72.4	27 - 120	
p-Terphenyl-d14	499.74	493	98.7	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523128.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

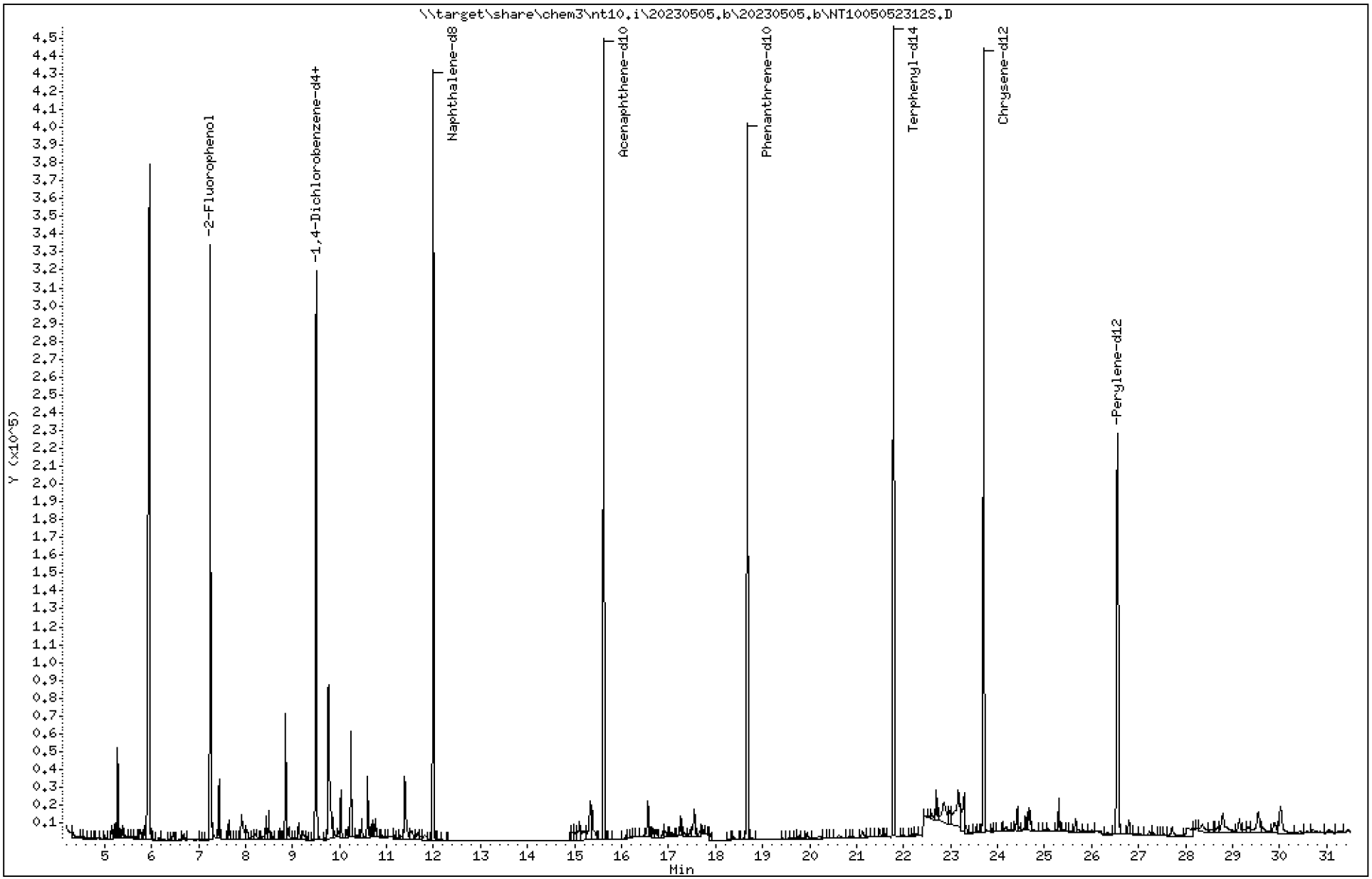
Sample Info: 23D0136-03

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1515 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523125.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

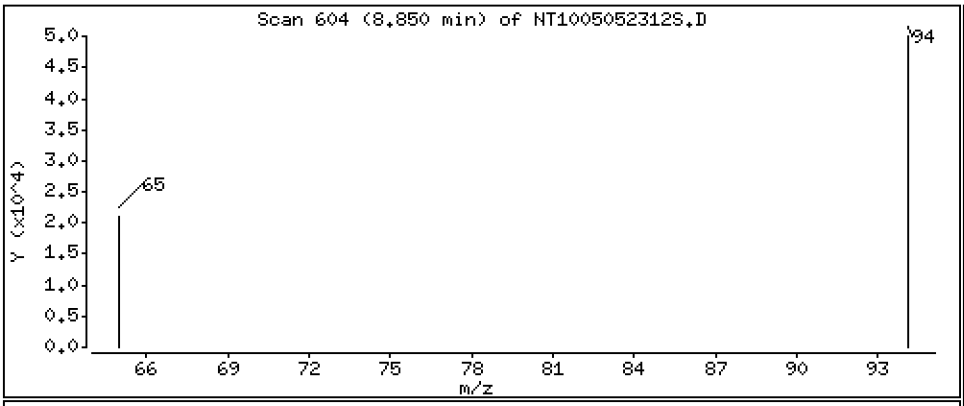
Operator: DSD

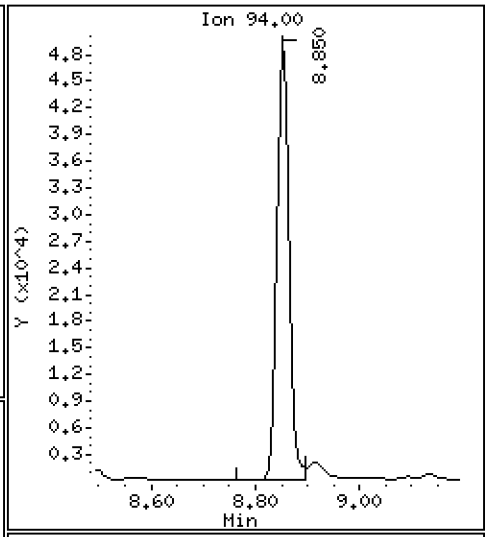
Column phase: ZB-5msi

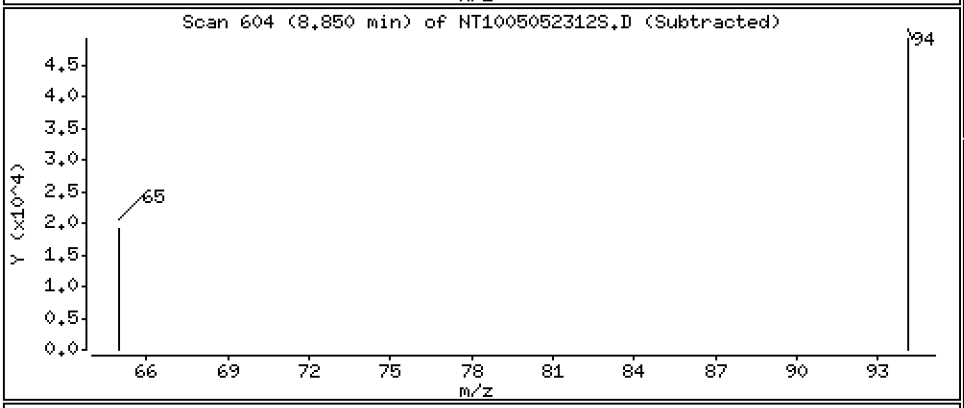
Column diameter: 0.25

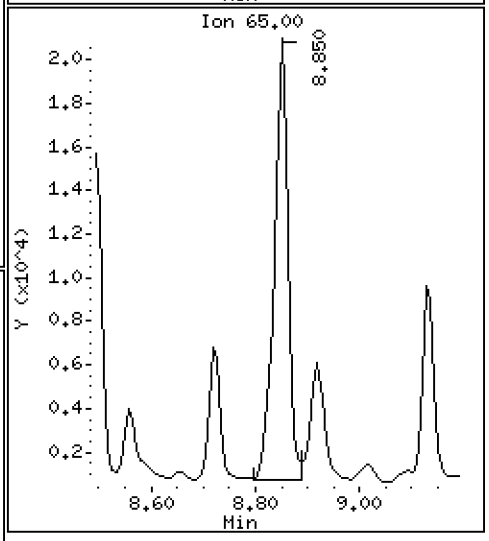
3 Phenol

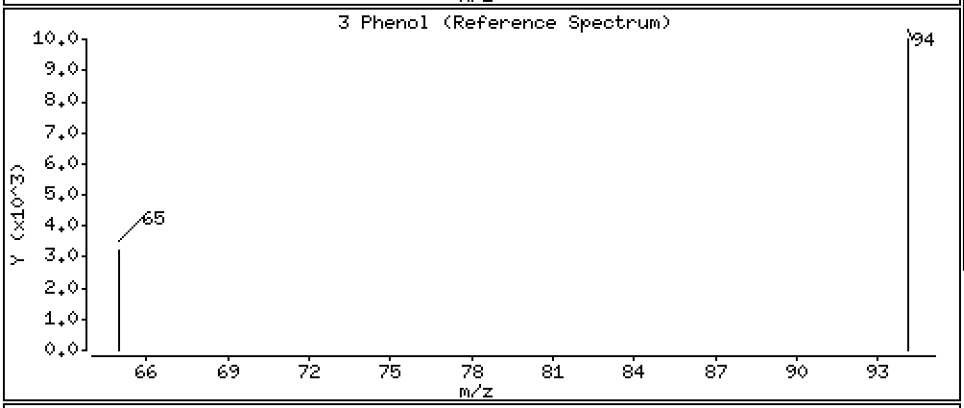
Concentration: 1.070 ug/L

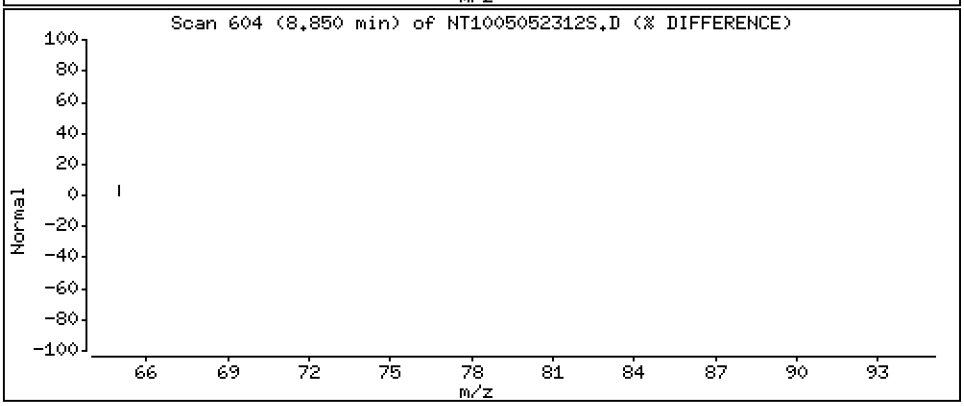












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

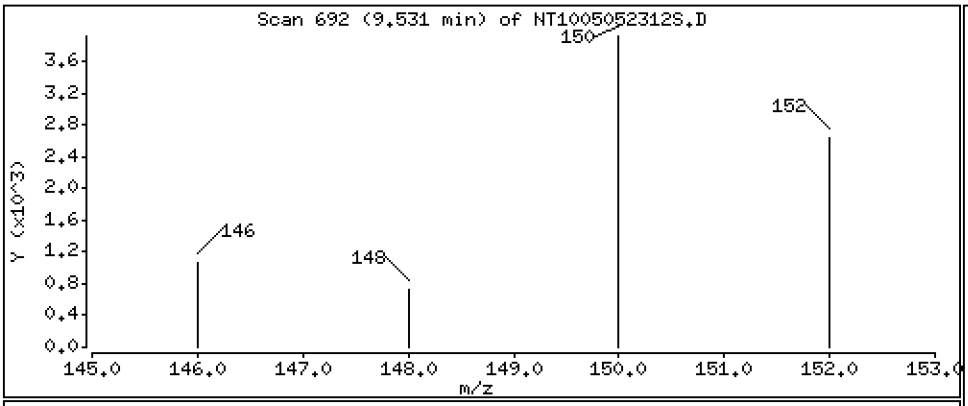
Operator: DSD

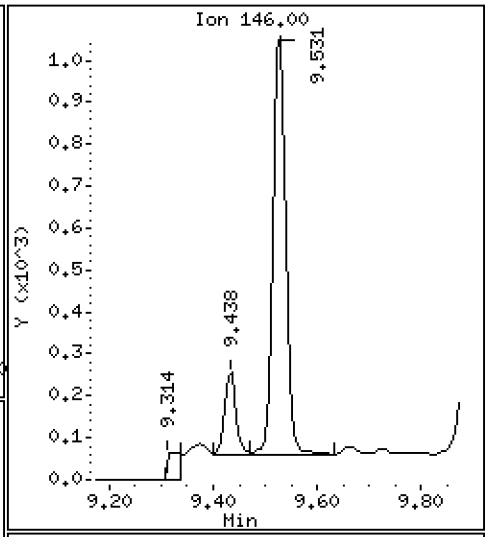
Column phase: ZB-5msi

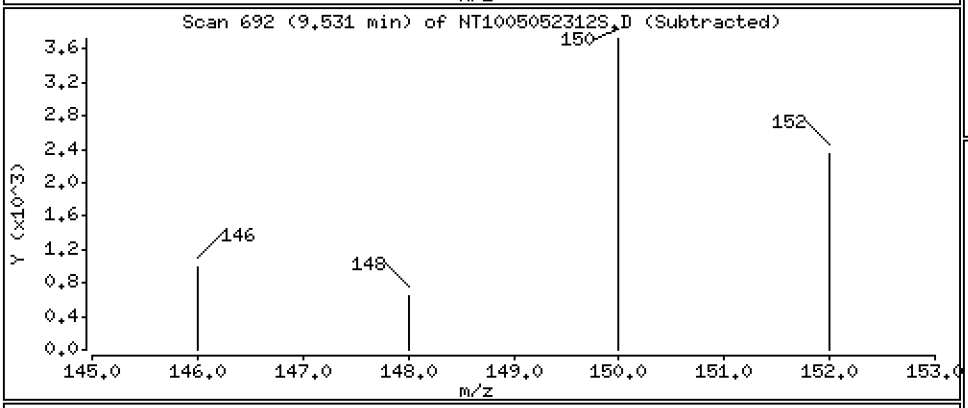
Column diameter: 0.25

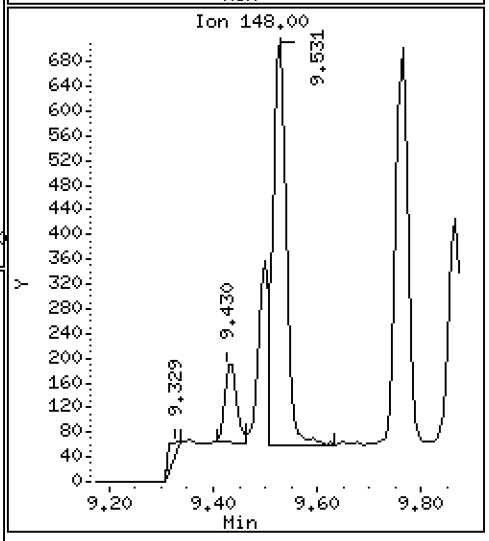
9 1,4-Dichlorobenzene

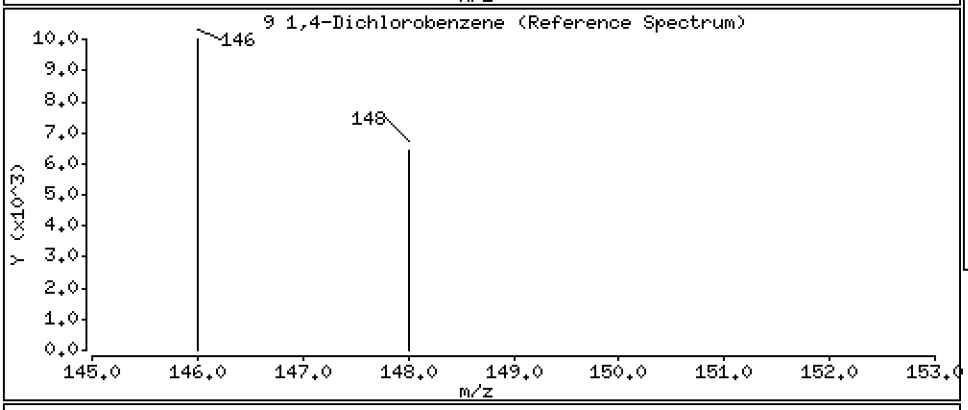
Concentration: 0.02216 ug/L

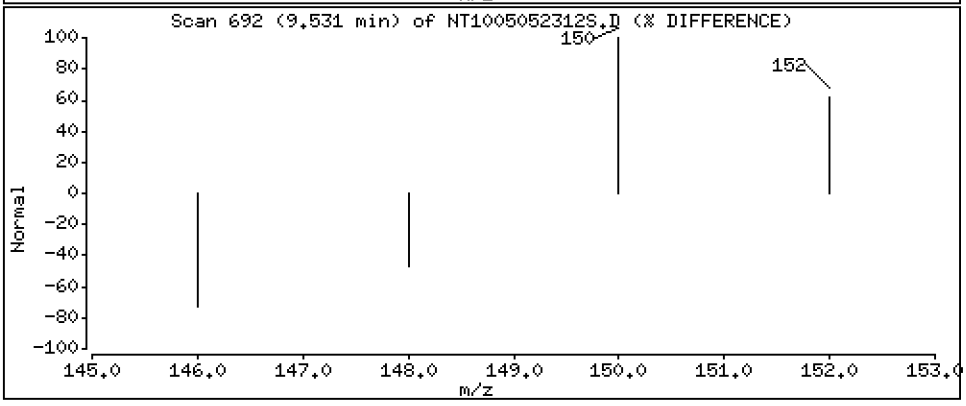












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

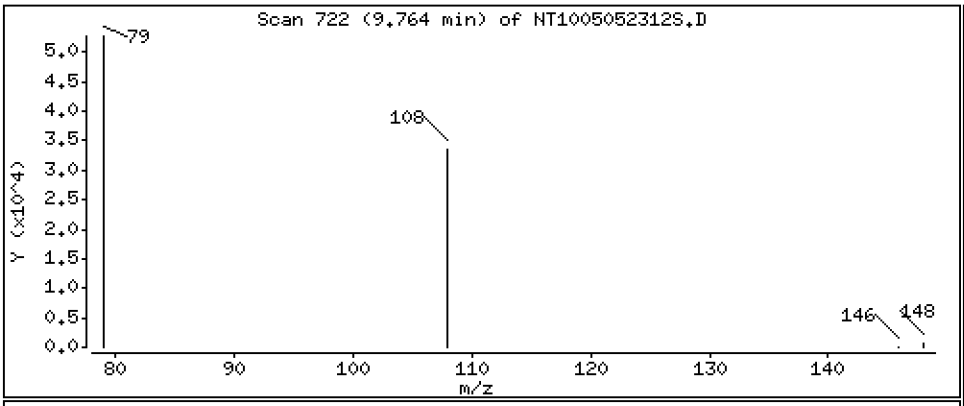
Operator: DSD

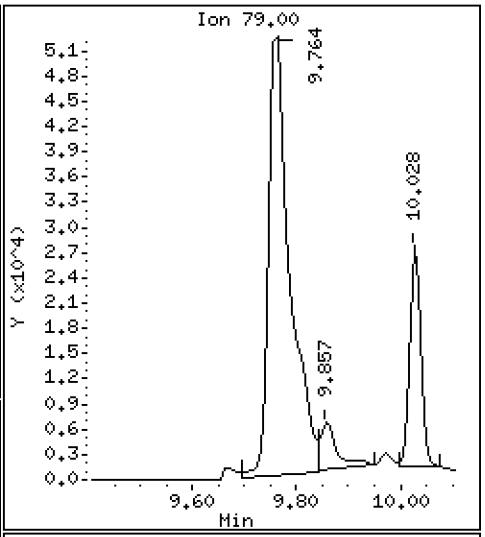
Column phase: ZB-5msi

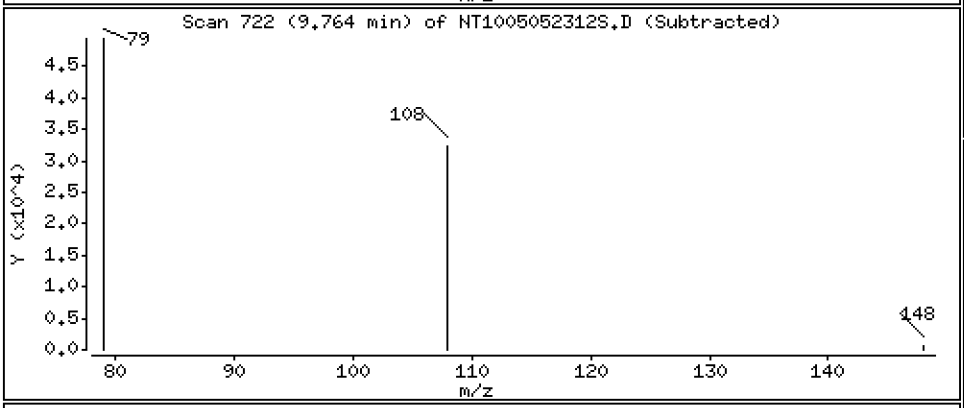
Column diameter: 0.25

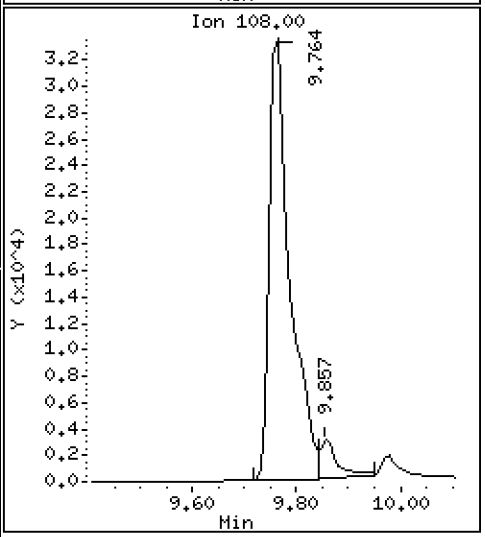
11 Benzyl alcohol

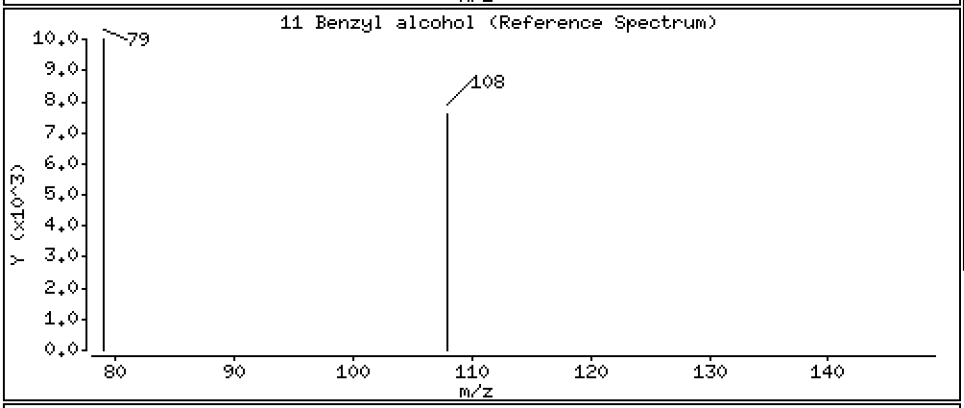
Concentration: 3.016 ug/L

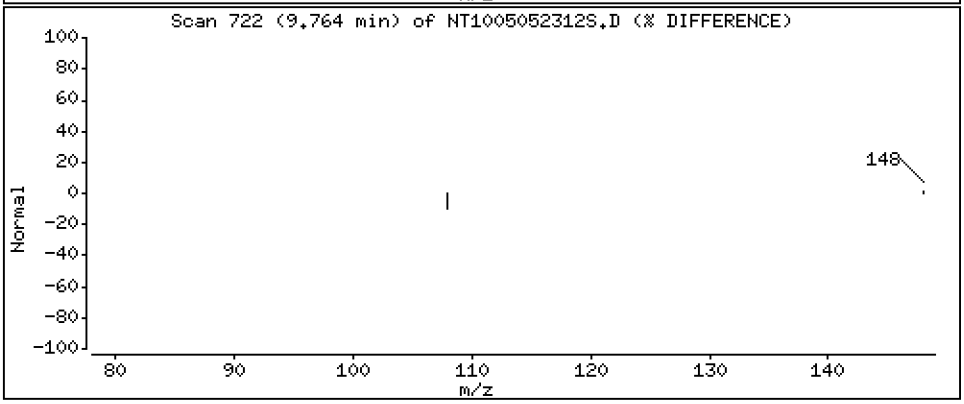












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

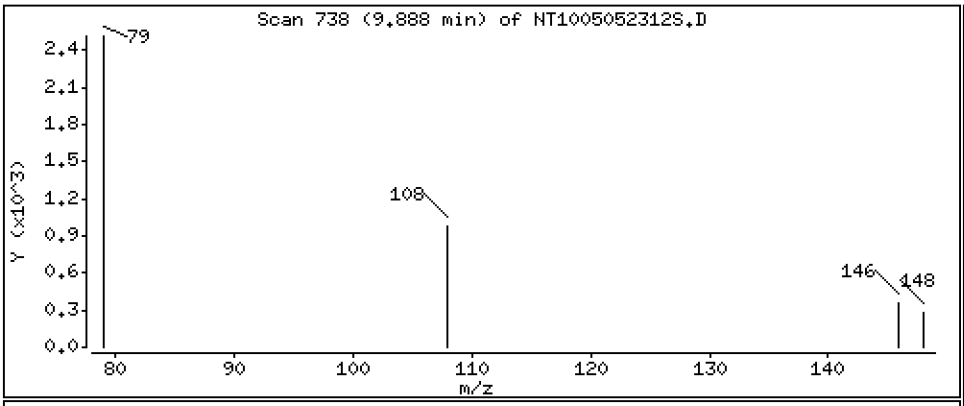
Operator: DSD

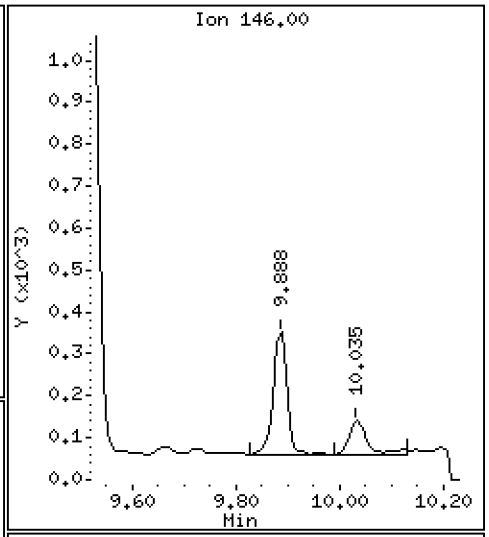
Column phase: ZB-5msi

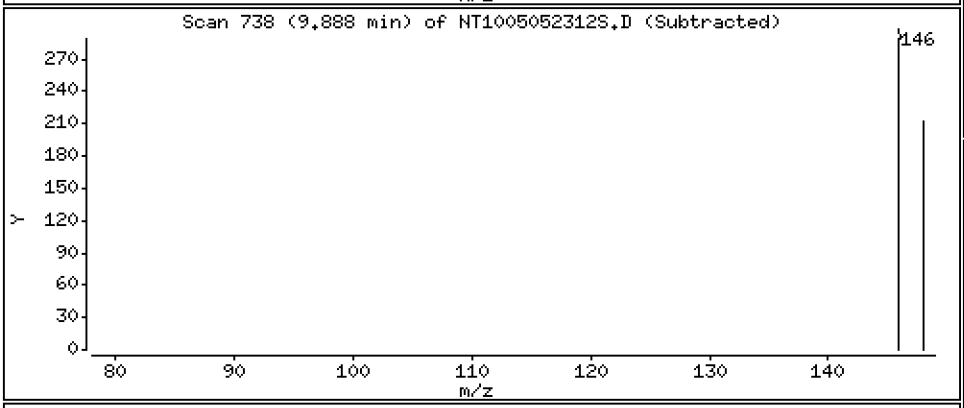
Column diameter: 0.25

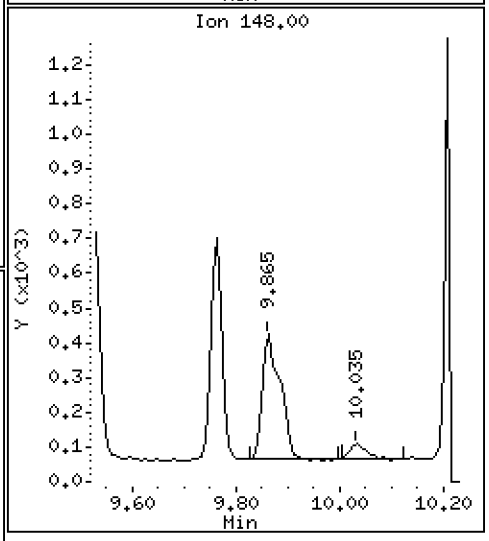
12 1,2-Dichlorobenzene

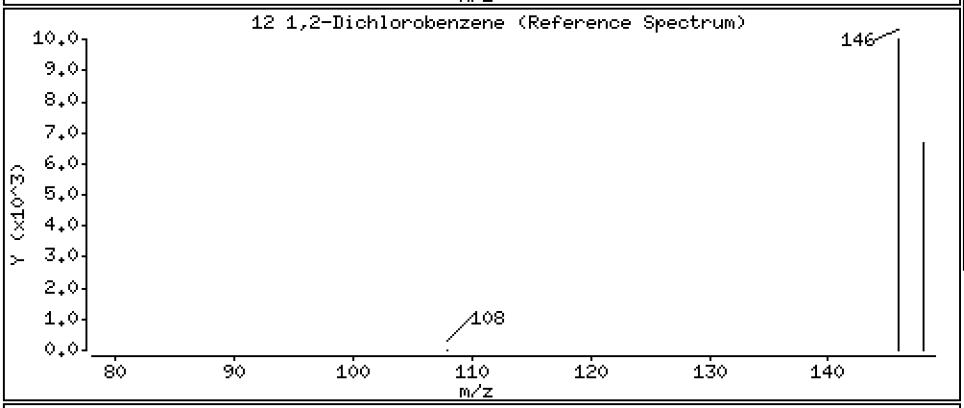
Concentration: 0.007282 ug/L

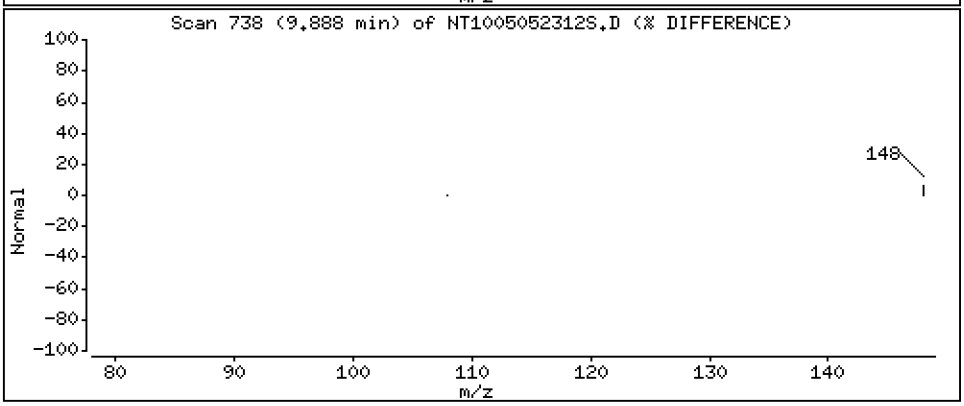












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523125.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

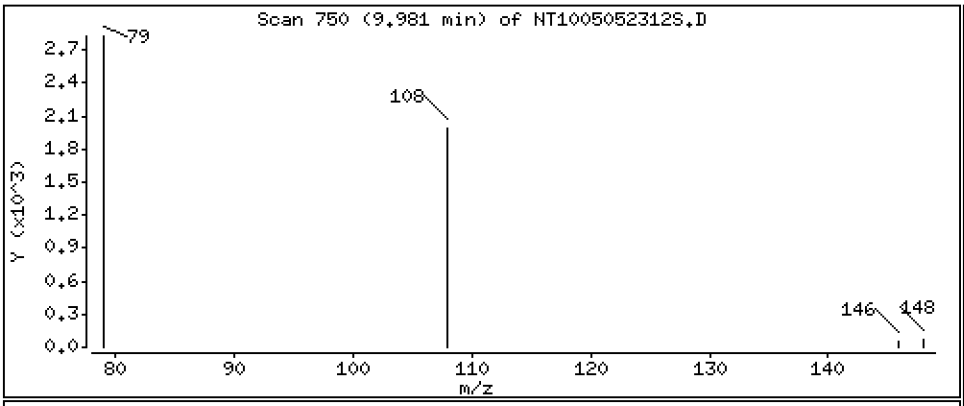
Operator: DSD

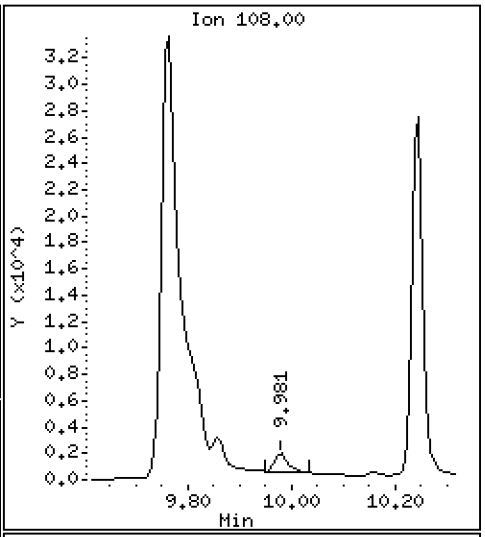
Column phase: ZB-5msi

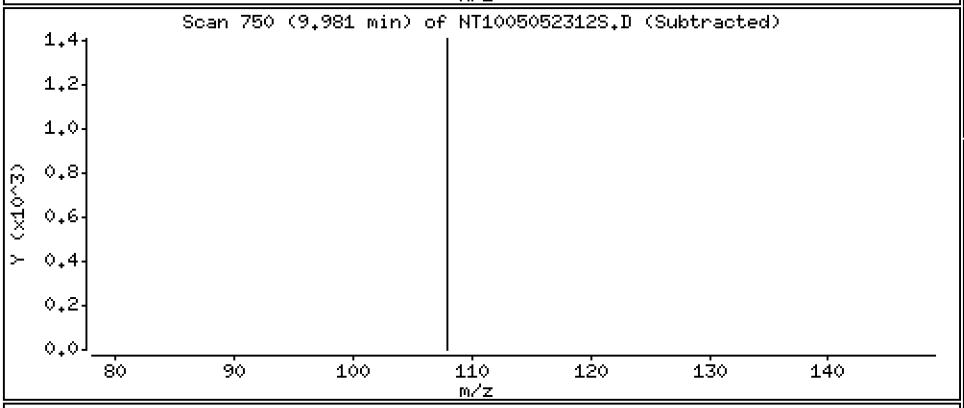
Column diameter: 0.25

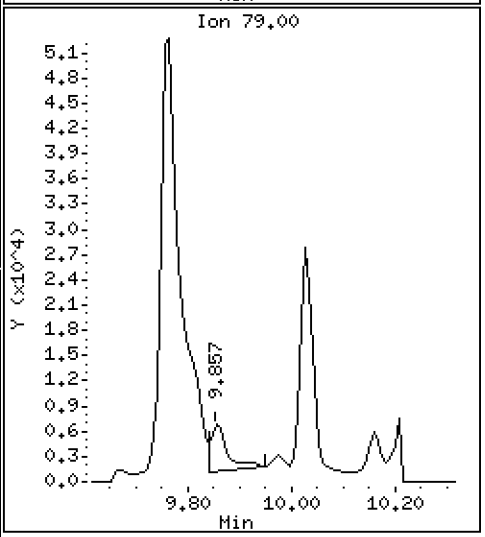
13 2-Methylphenol

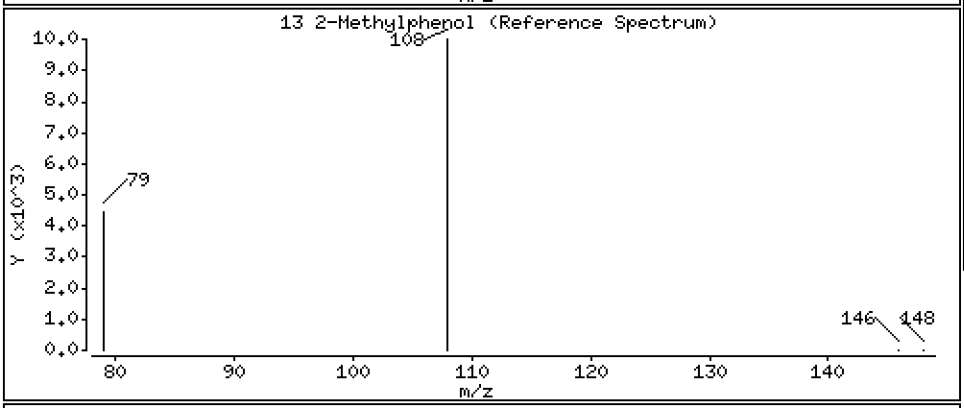
Concentration: 0.04745 ug/L

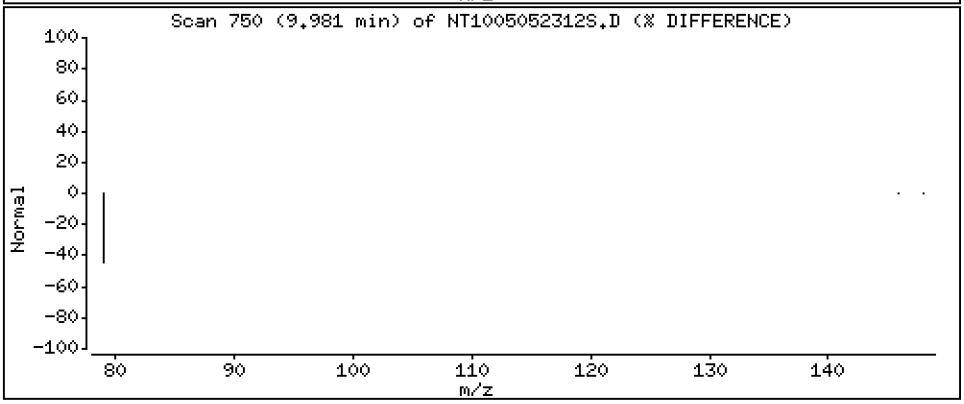












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523125.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

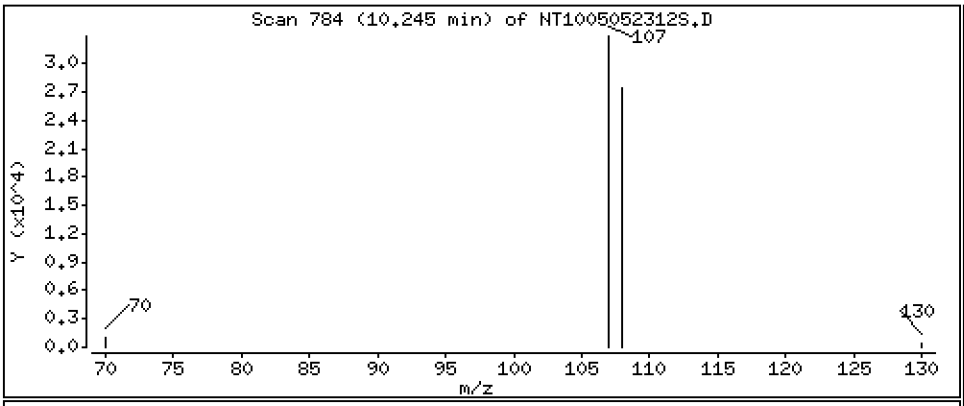
Operator: DSD

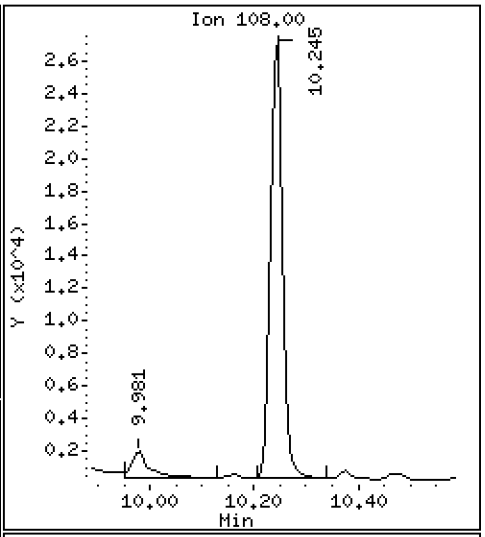
Column phase: ZB-5msi

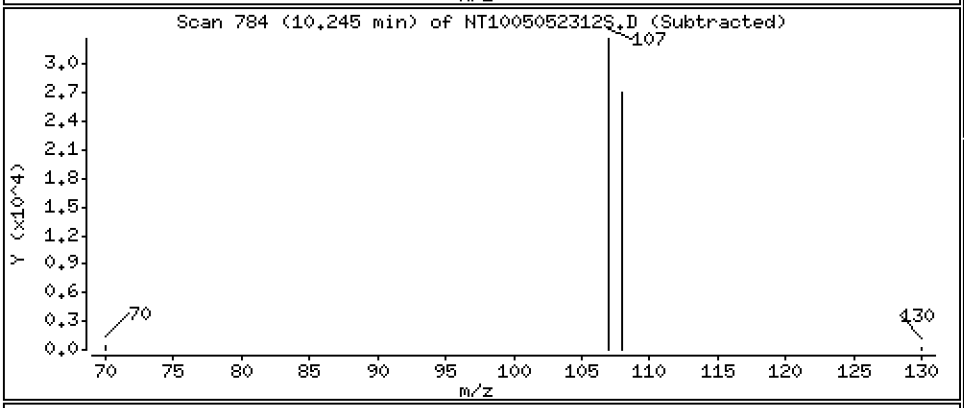
Column diameter: 0.25

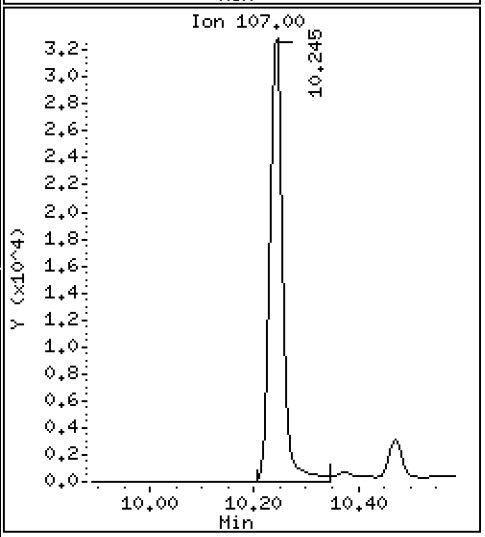
15 4-Methylphenol

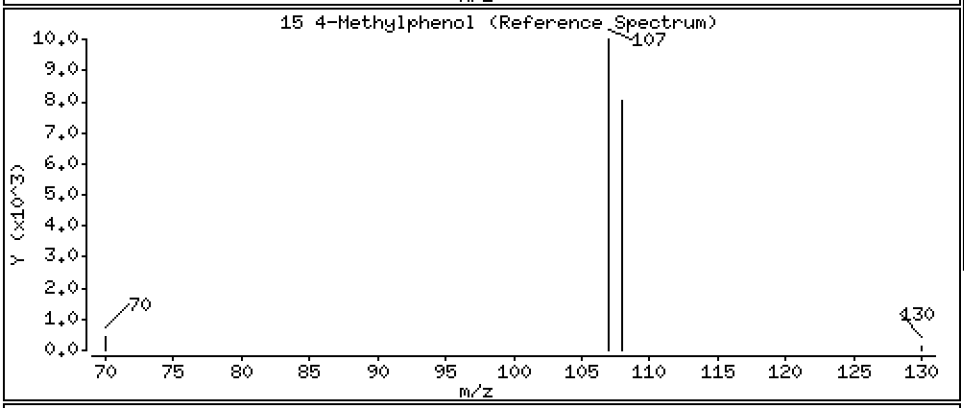
Concentration: 0.7565 ug/L

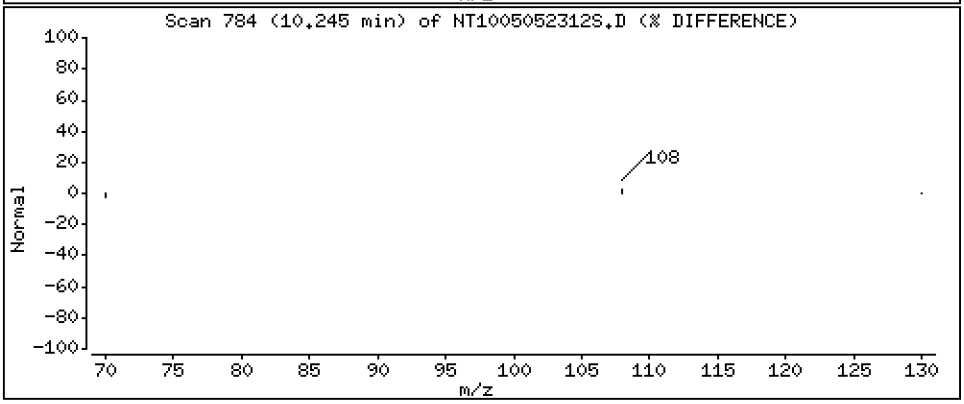












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523125.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

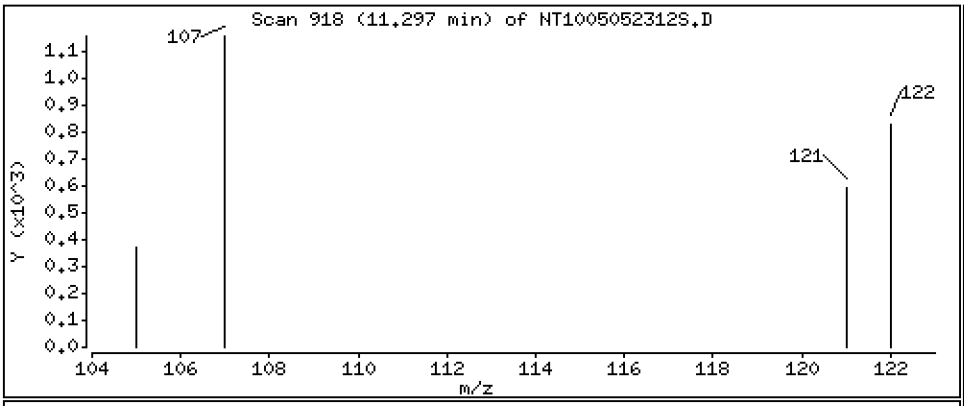
Operator: DSD

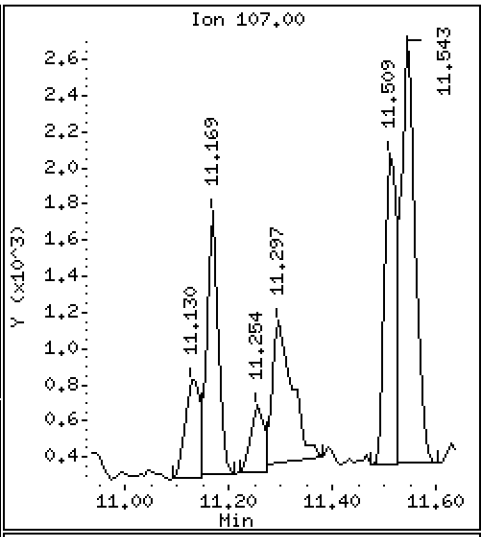
Column phase: ZB-5msi

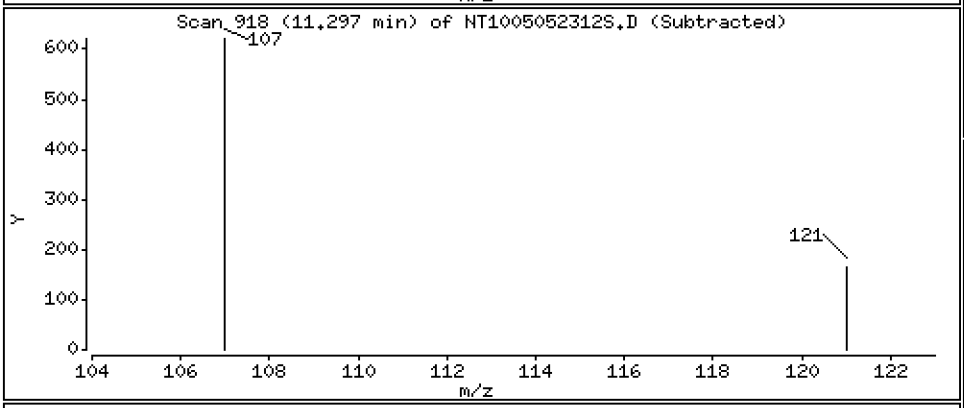
Column diameter: 0.25

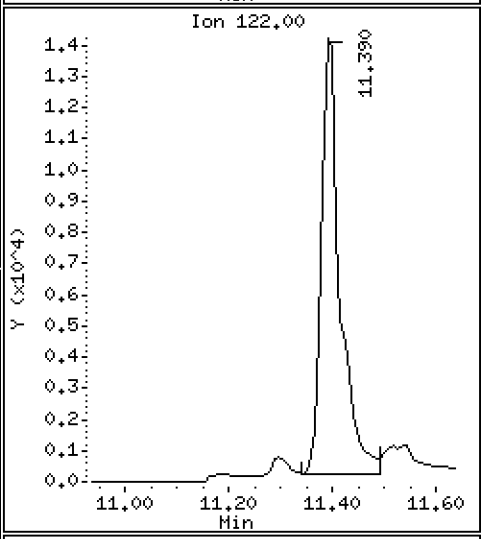
22 2,4-Dimethylphenol

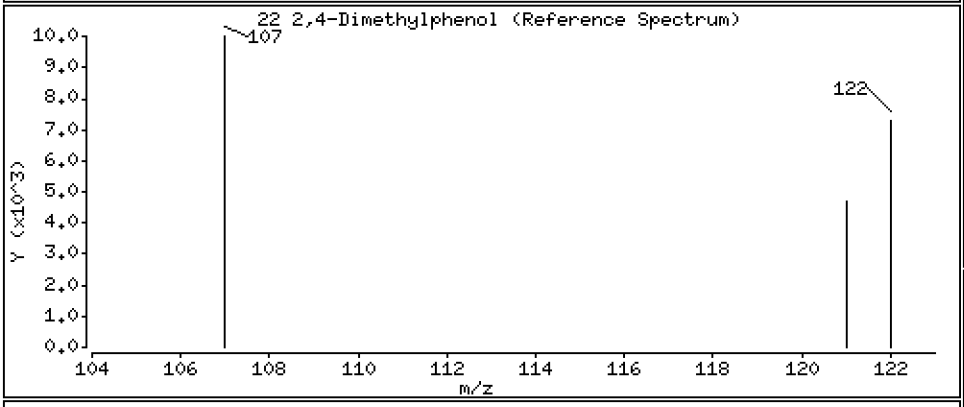
Concentration: 0.03133 ug/L

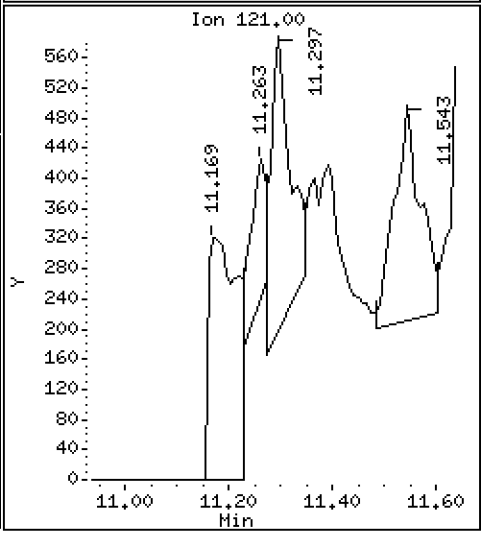


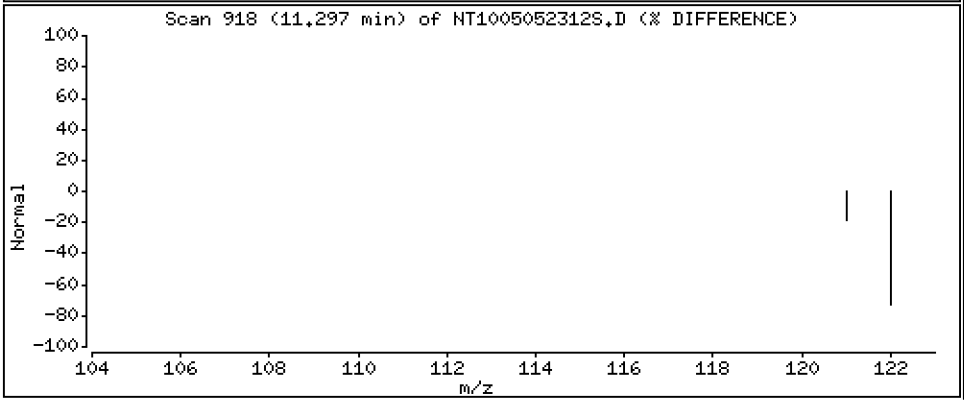












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523125.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

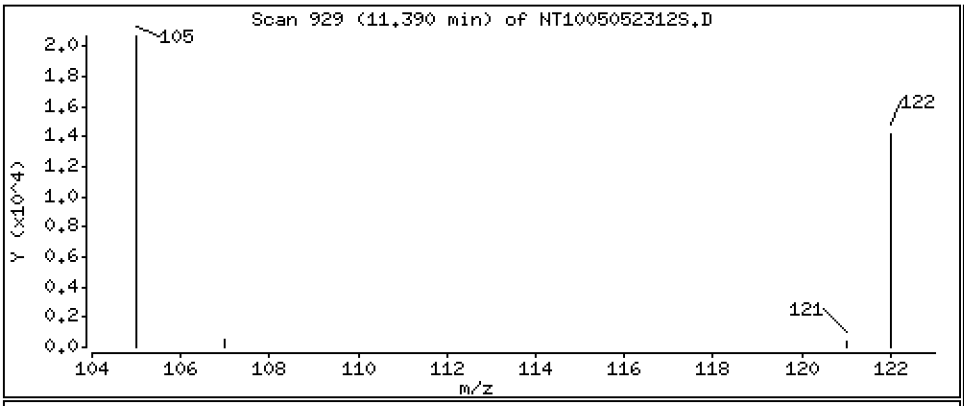
Operator: DSD

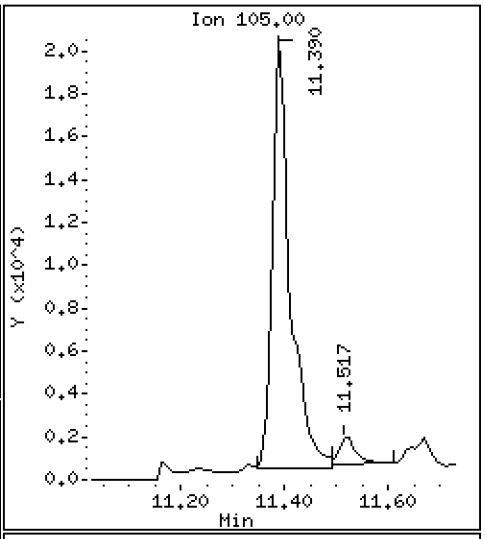
Column phase: ZB-5msi

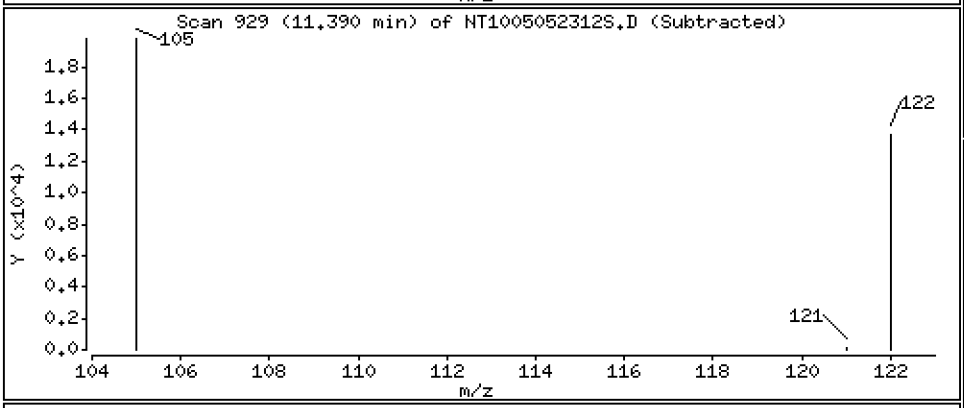
Column diameter: 0.25

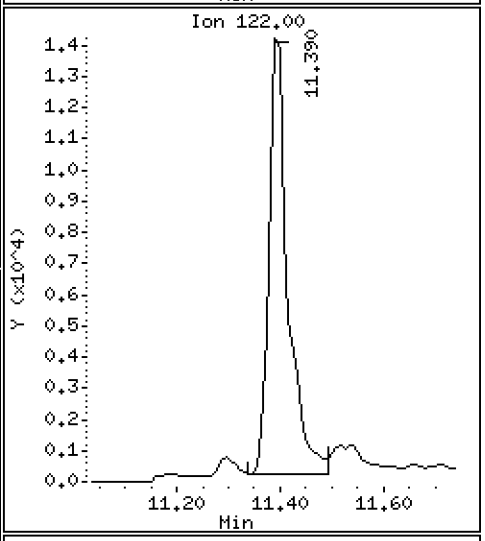
24 Benzoic acid

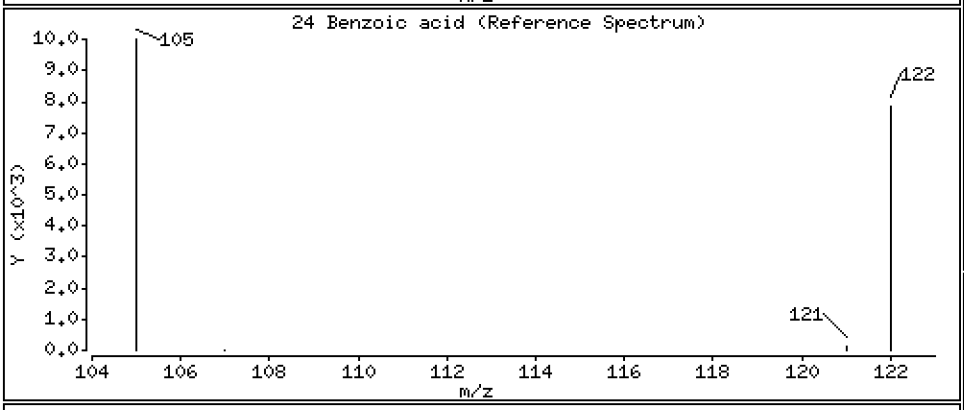
Concentration: 1.064 ug/L

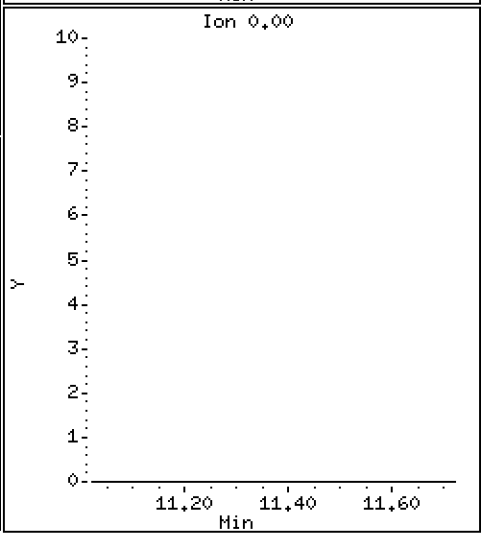


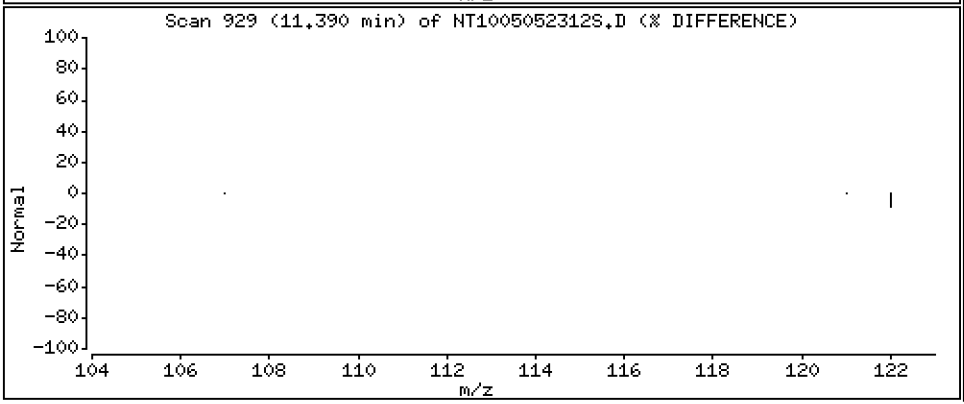












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523125.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

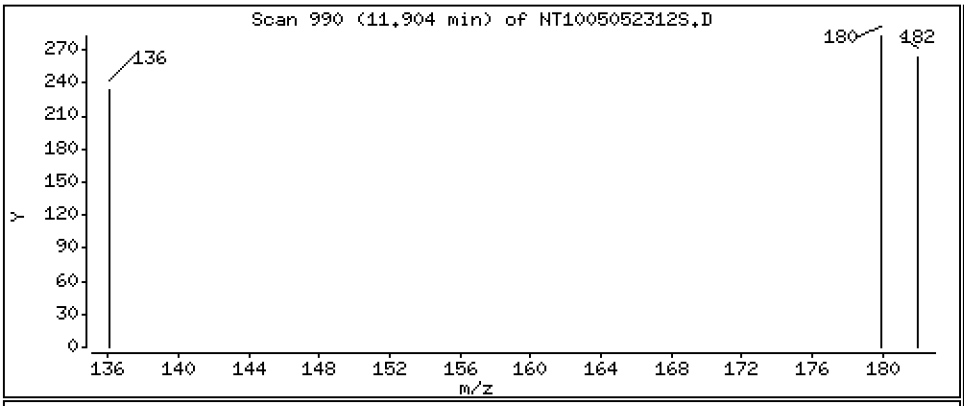
Operator: DSD

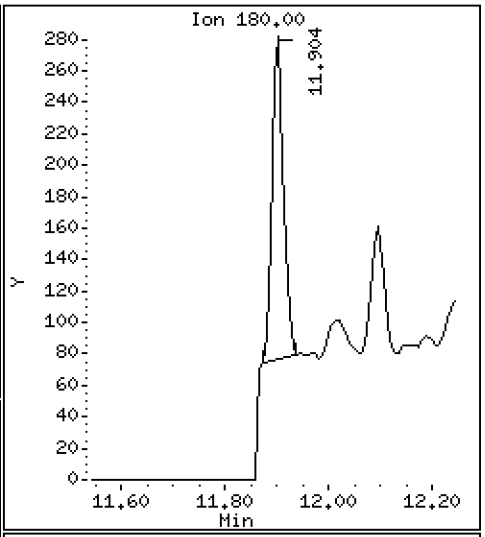
Column phase: ZB-5msi

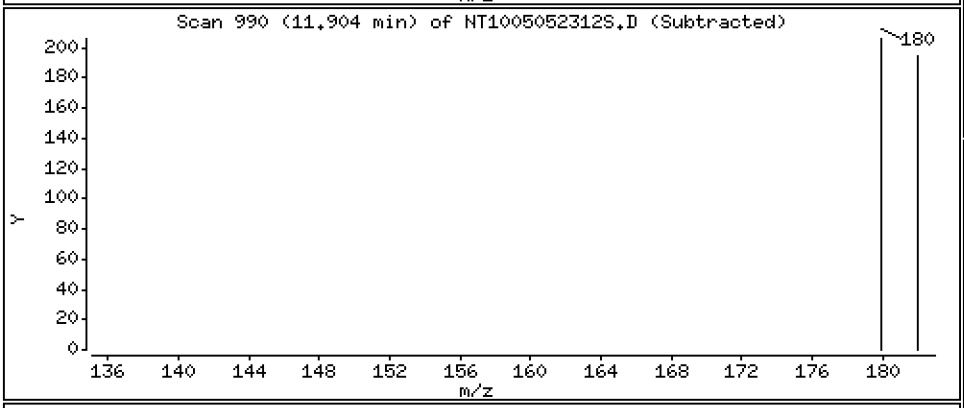
Column diameter: 0.25

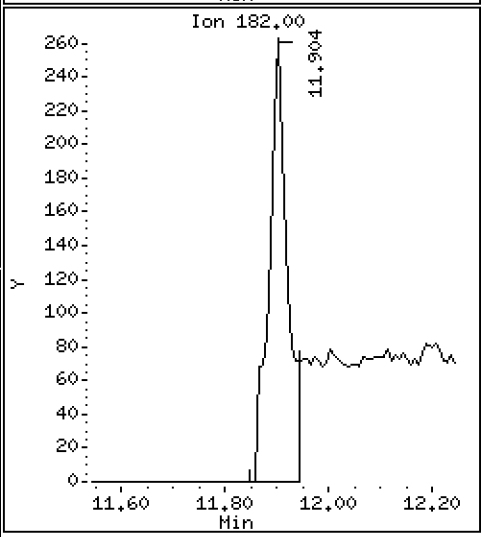
26 1,2,4-Trichlorobenzene

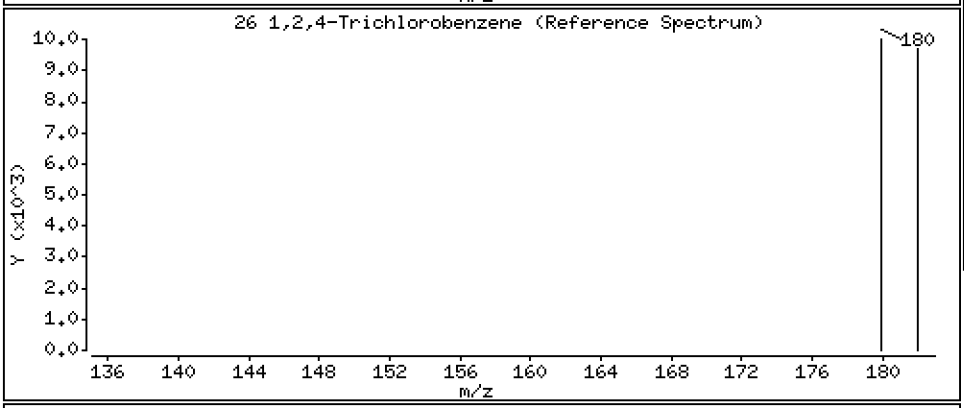
Concentration: 0.004292 ug/L

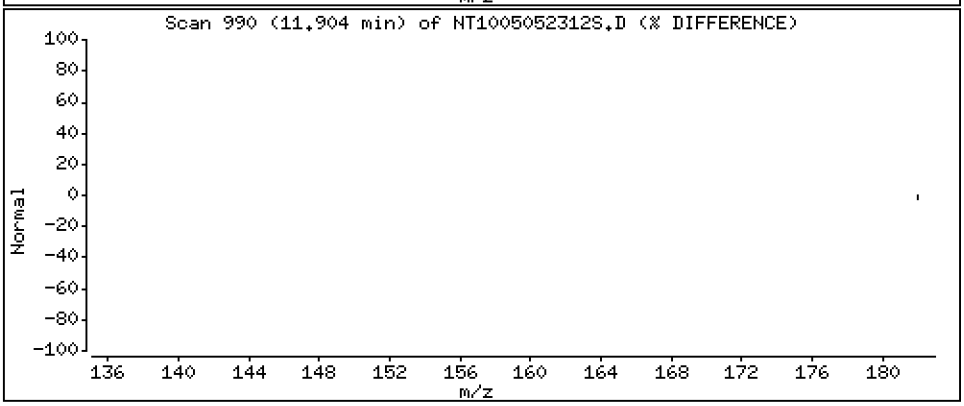












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

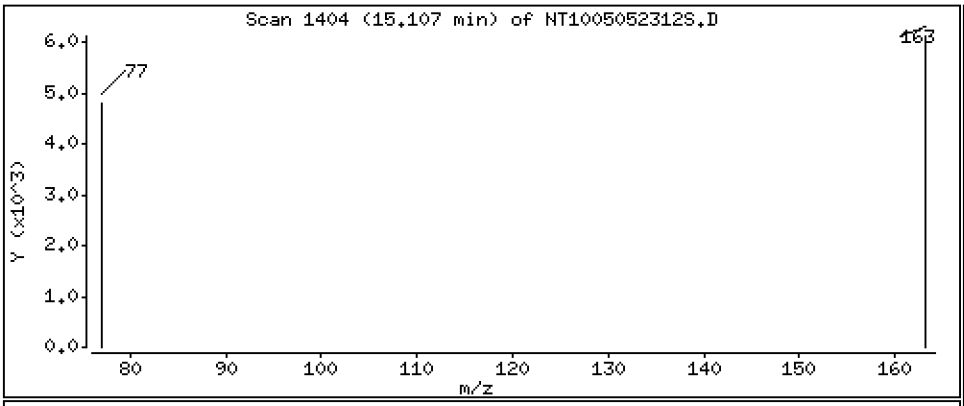
Operator: DSD

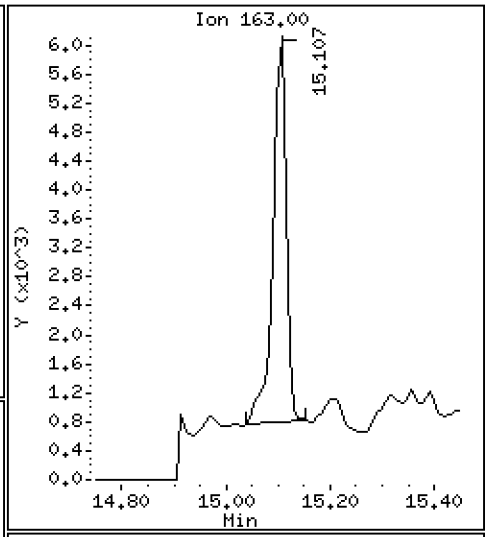
Column phase: ZB-5msi

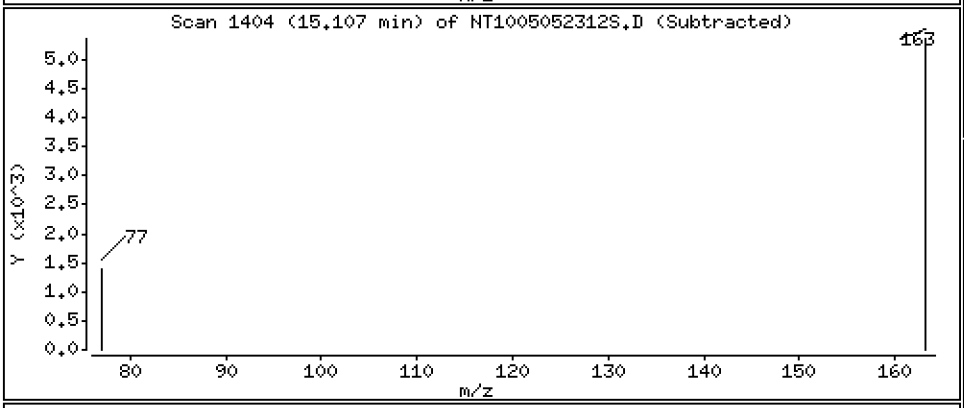
Column diameter: 0.25

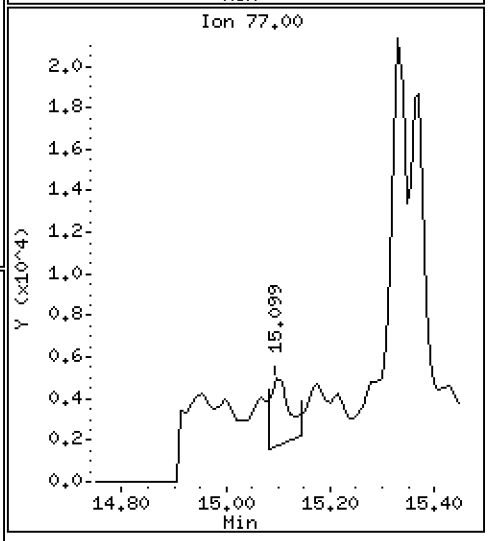
39 Dimethylphthalate

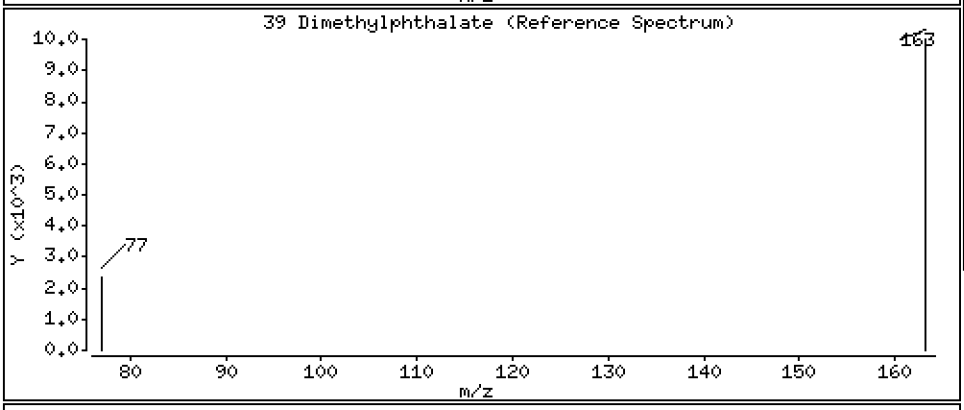
Concentration: 0.06826 ug/L

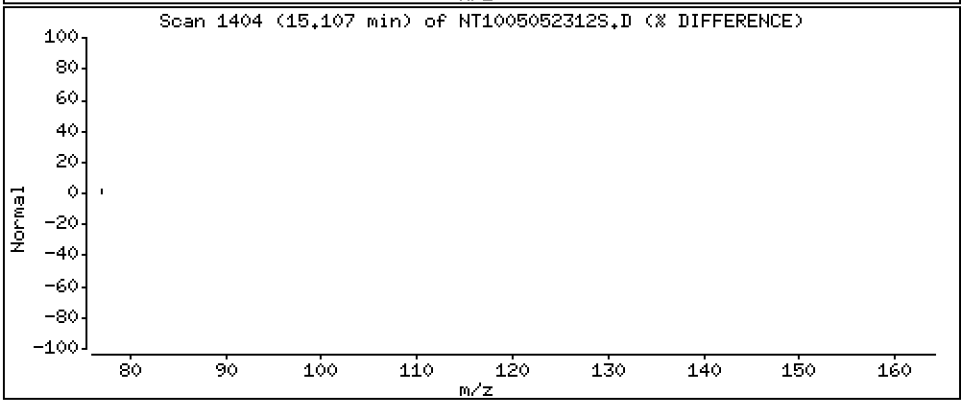












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

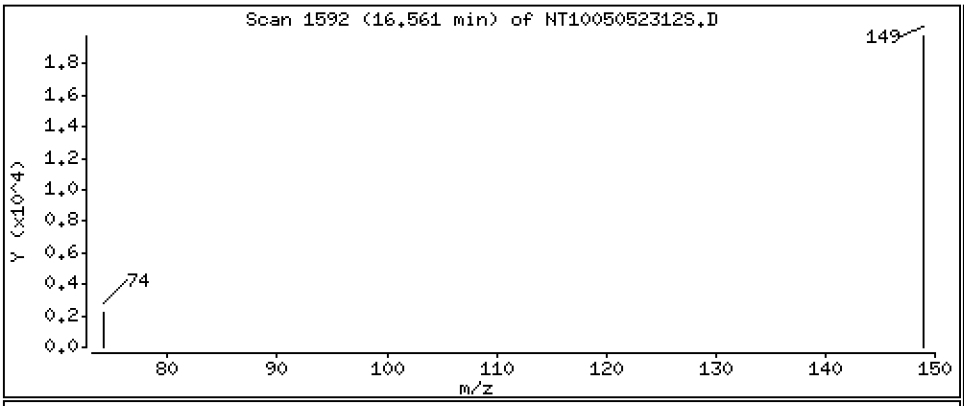
Operator: DSD

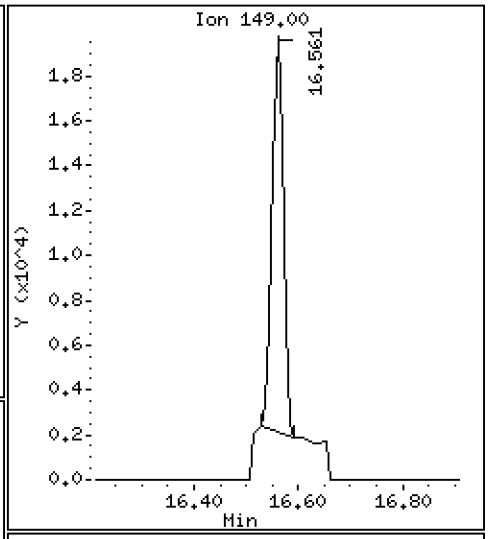
Column phase: ZB-5msi

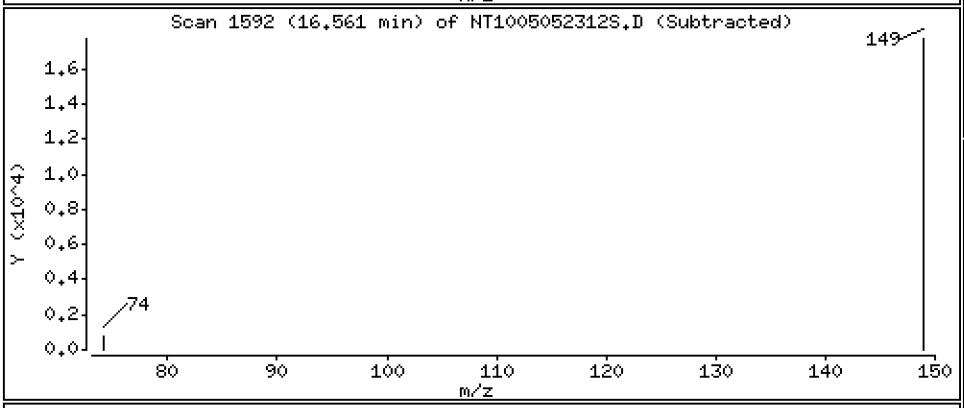
Column diameter: 0.25

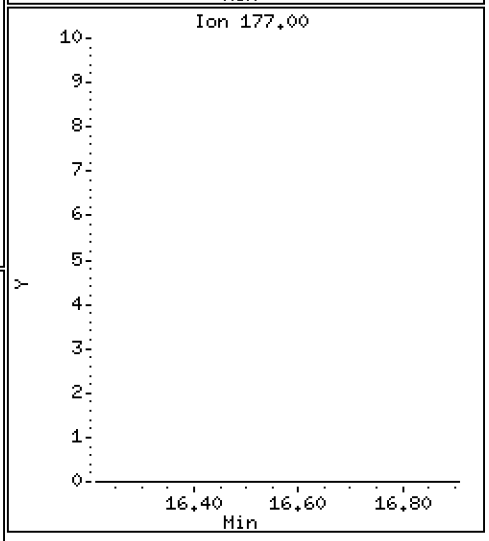
50 Diethylphthalate

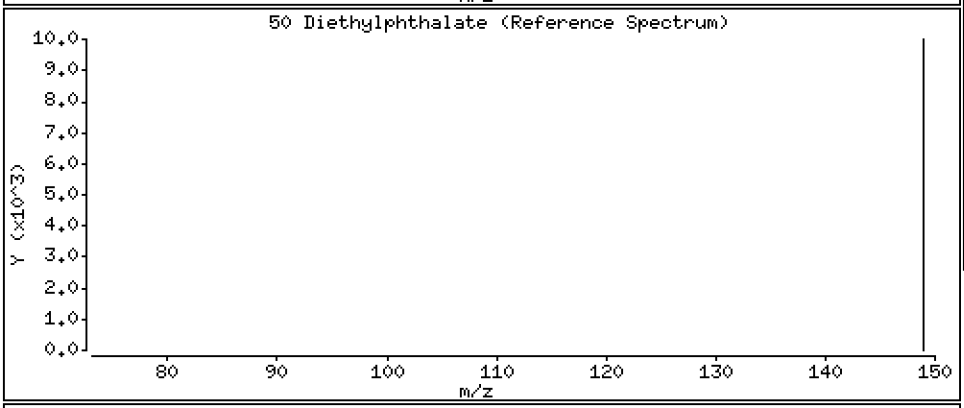
Concentration: 0.1790 ug/L

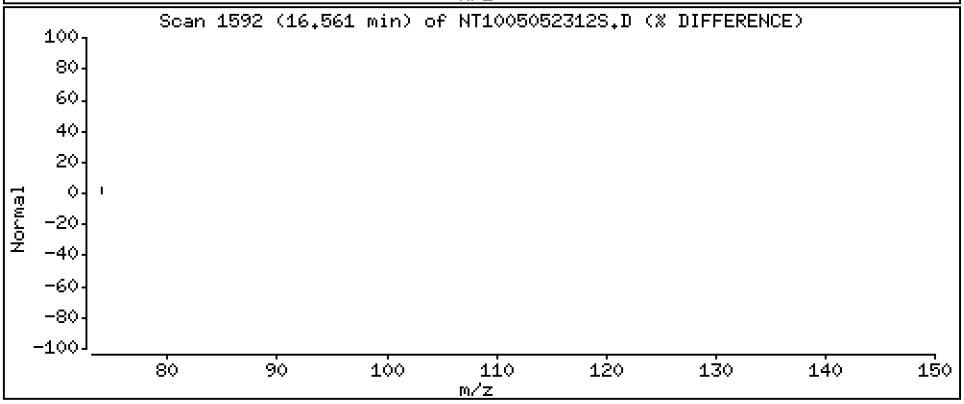












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

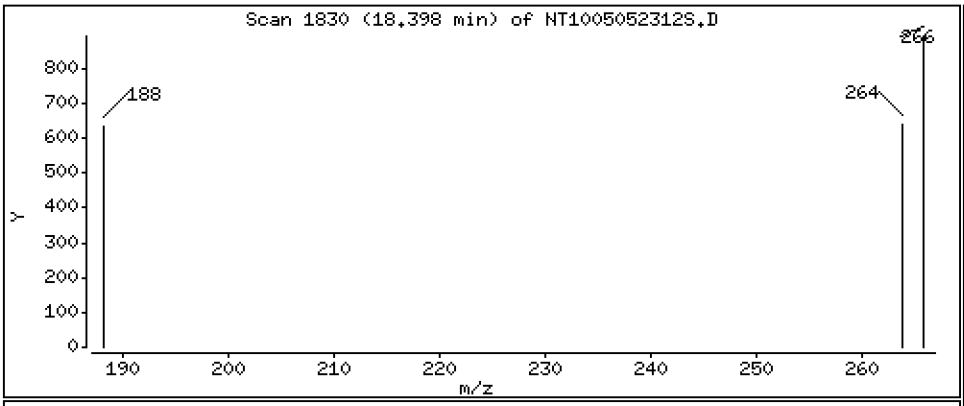
Operator: DSD

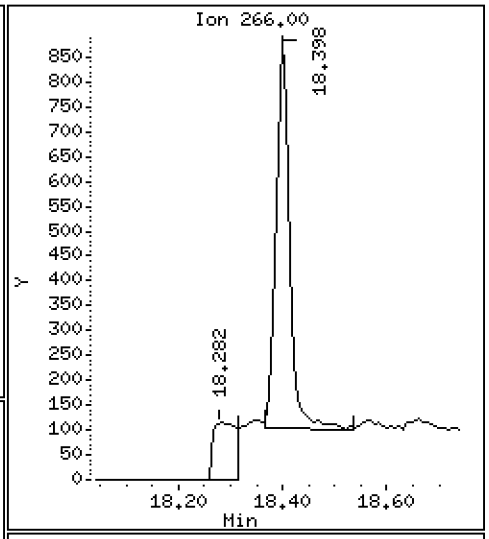
Column phase: ZB-5msi

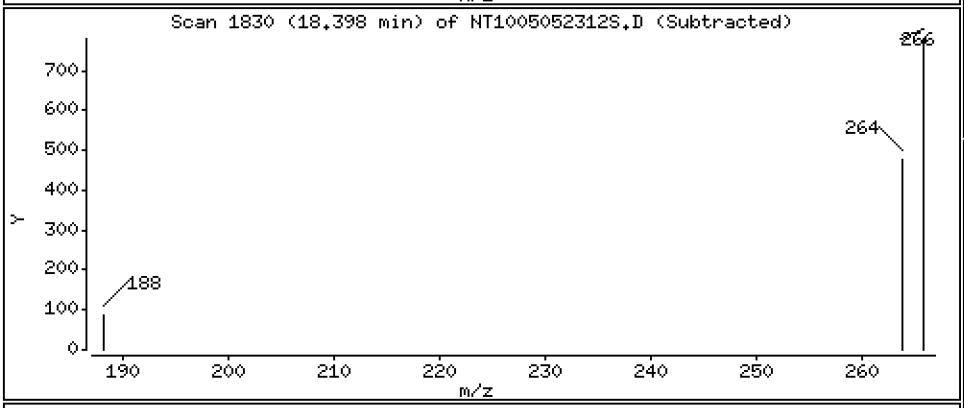
Column diameter: 0.25

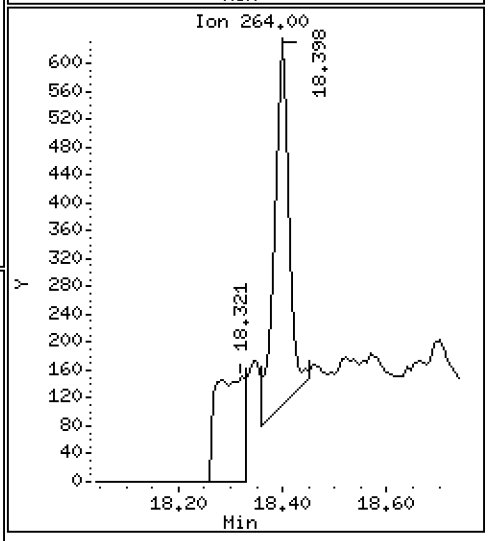
58 Pentachlorophenol

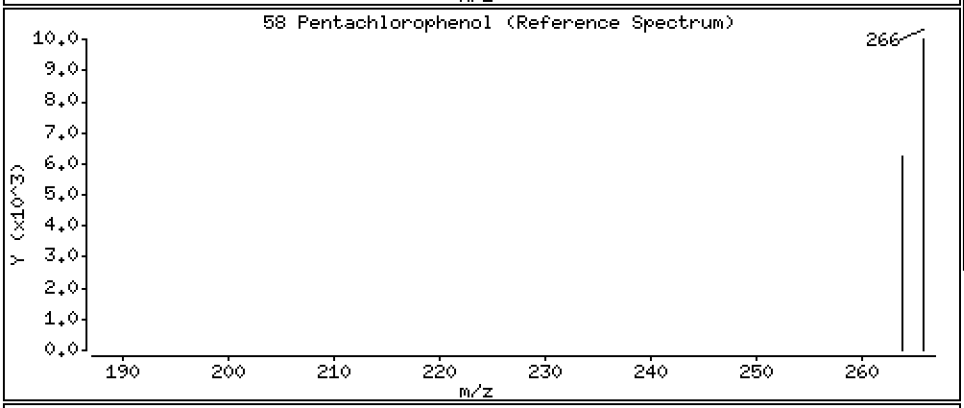
Concentration: 0.05355 ug/L

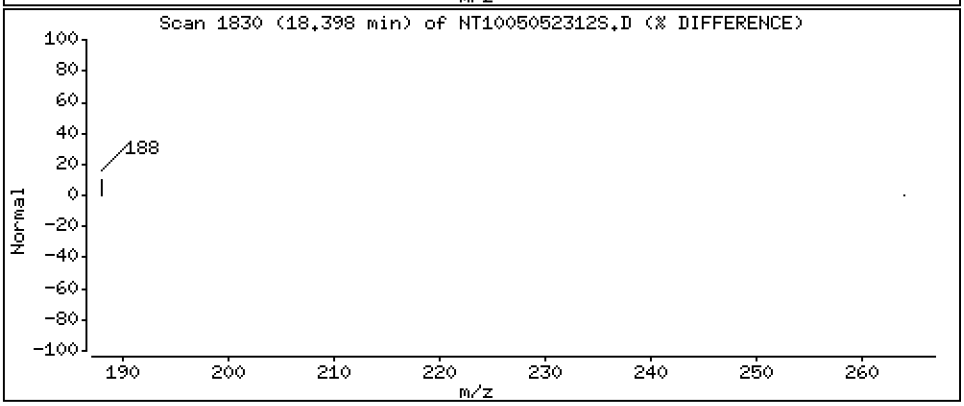












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

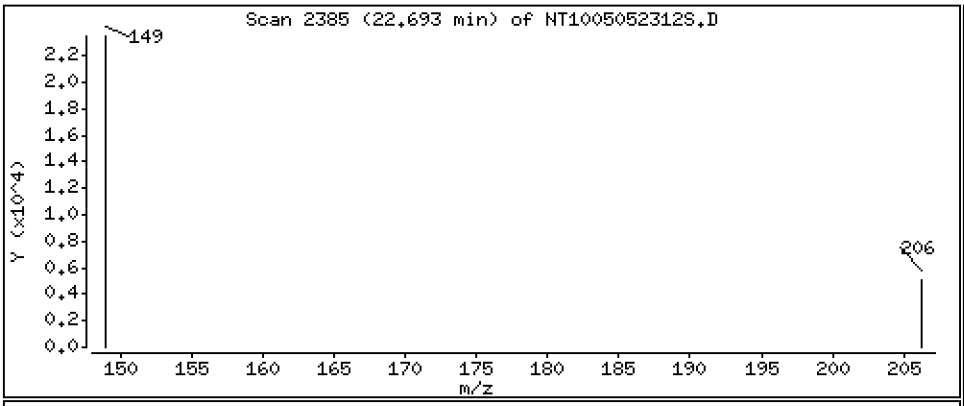
Operator: DSD

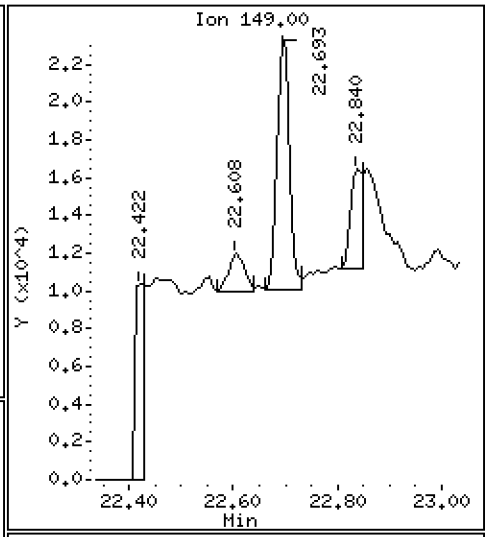
Column phase: ZB-5msi

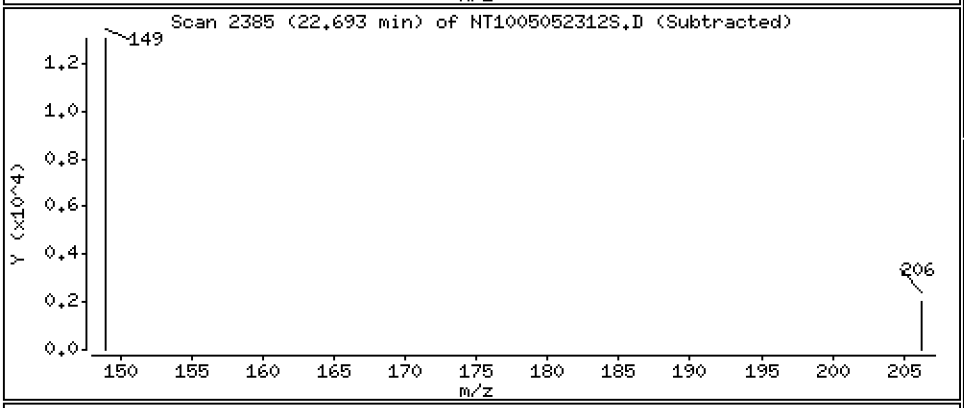
Column diameter: 0.25

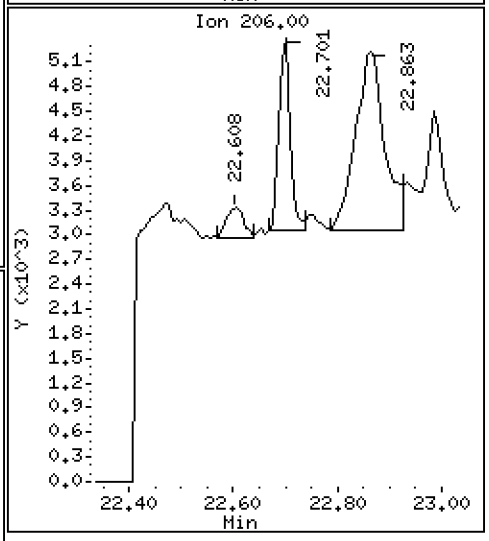
67 Butylbenzylphthalate

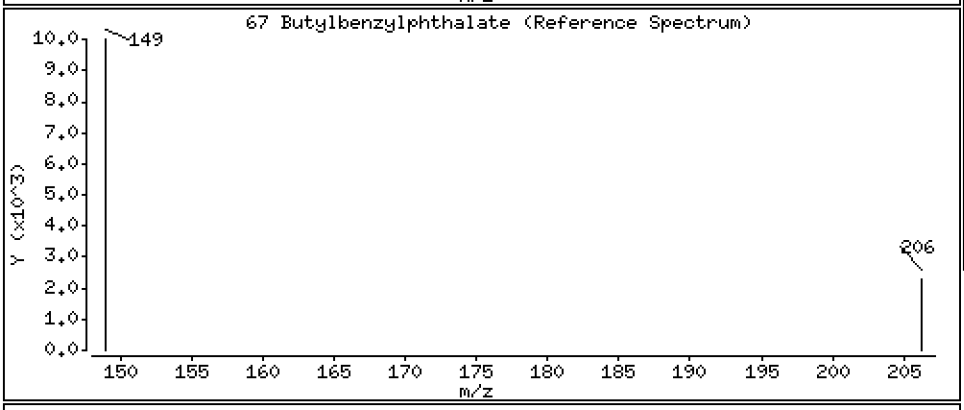
Concentration: 0.2409 ug/L

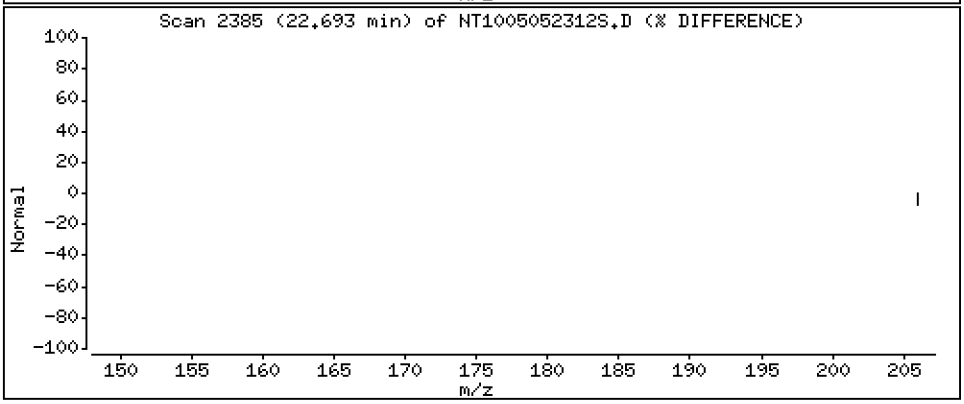












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D

Date : 05-MAY-2023 17:54

Client ID:

Instrument: nt10.i

Sample Info: 23D0136-03

Volume Injected (uL): 1.0

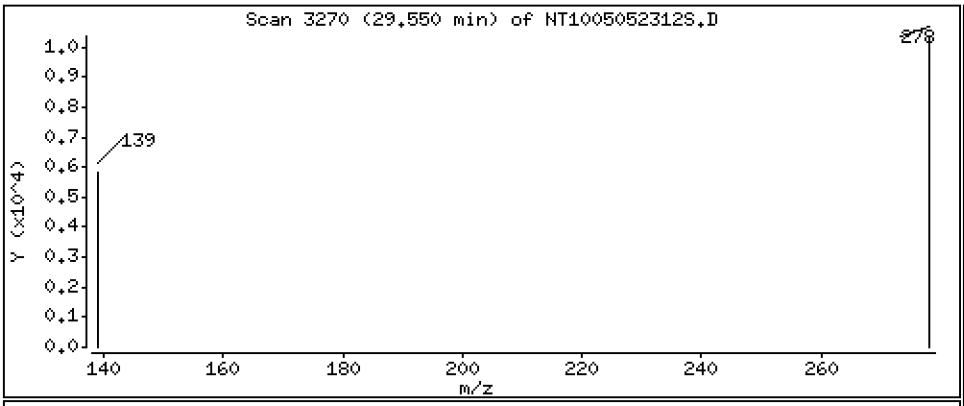
Operator: DSD

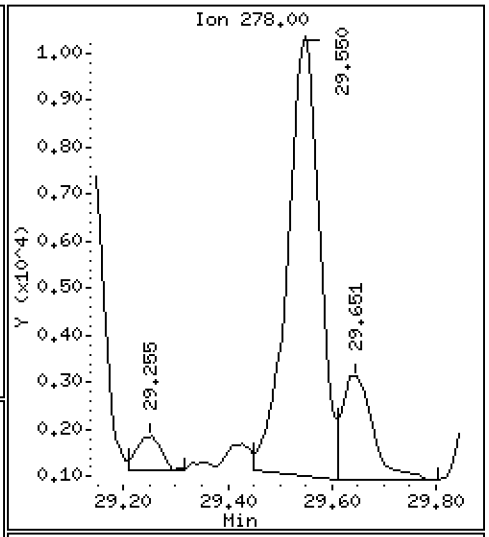
Column phase: ZB-5msi

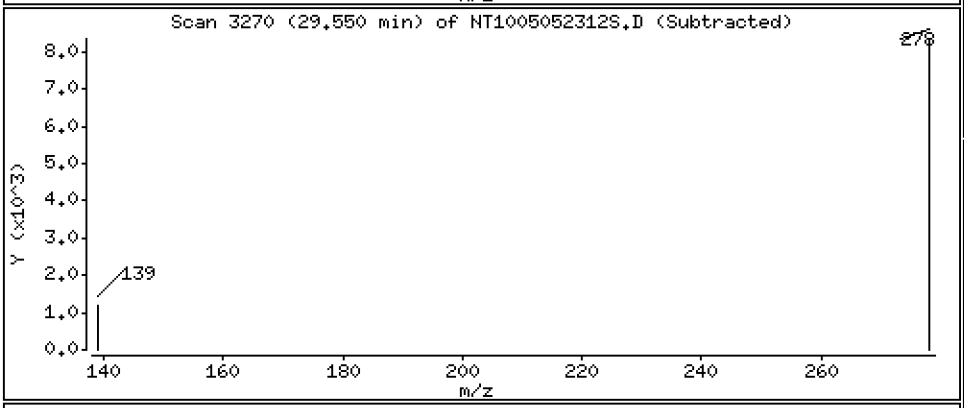
Column diameter: 0.25

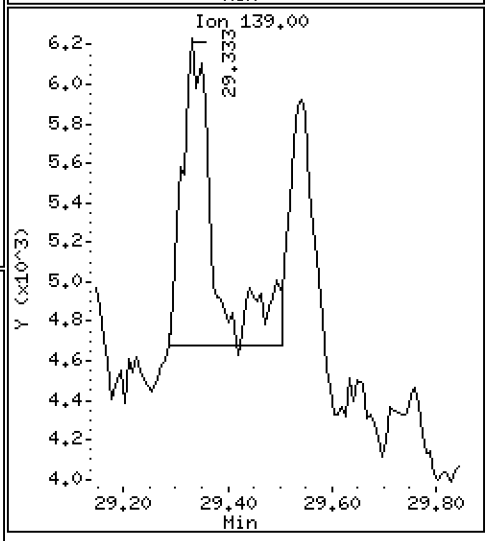
79 Dibenzo(a,h)anthracene

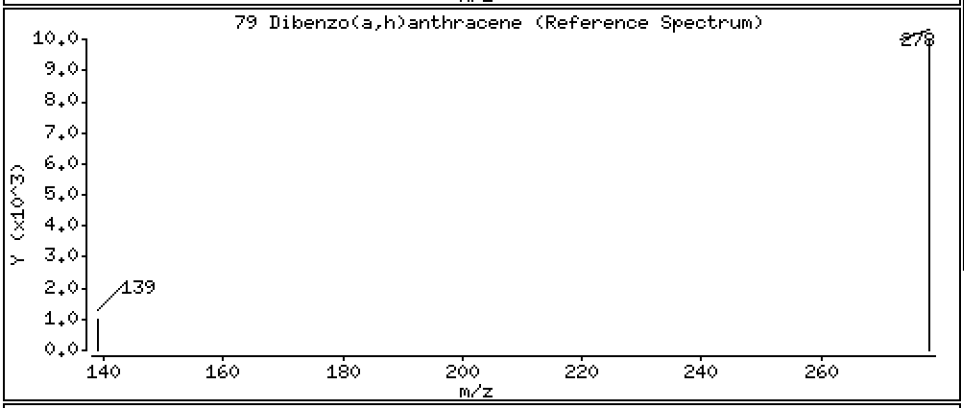
Concentration: 0.2835 ug/L

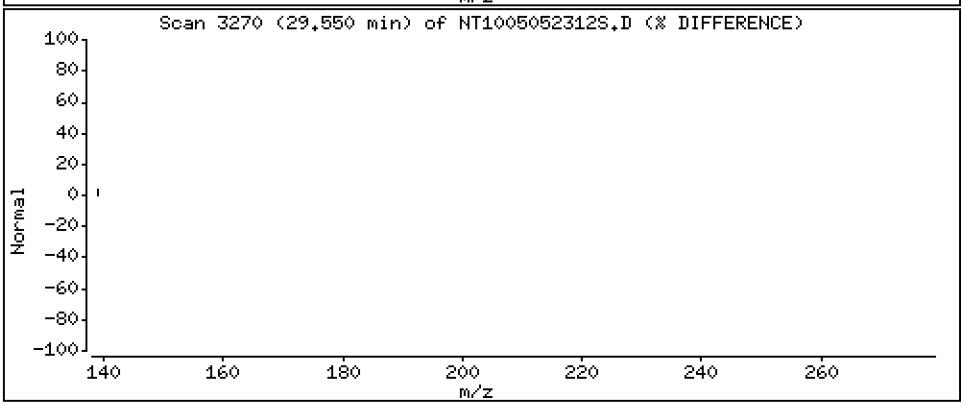












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052312S.D
Lab Smp Id: 23D0136-03
Inj Date : 05-MAY-2023 17:54 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : 23D0136-03
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.251	7.243	(0.763)	305567	5.43290	5.433(R)
3	Phenol	94	8.850	8.842	(0.932)	75389	1.07007	1.070
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.499	9.492	(1.000)	184634	4.00000	
9	1,4-Dichlorobenzene	146	9.530	9.523	(1.003)	1626	0.02216	0.02216
11	Benzyl alcohol	79	9.763	9.756	(1.028)	146928	3.01568	3.016
12	1,2-Dichlorobenzene	146	9.887	9.880	(1.041)	514	0.00728	0.007282
13	2-Methylphenol	108	9.981	9.965	(1.051)	2502	0.04745	0.04745(M)
15	4-Methylphenol	108	10.245	10.237	(1.078)	41939	0.75649	0.7565
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	11.296	11.288	(0.942)	2170	0.03133	0.03133
24	Benzoic acid	105	11.389	11.381	(0.950)	48083	1.06426	1.064
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.993)	305	0.00429	0.004292(M)
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	697055	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	15.106	15.099	(0.967)	8893	0.06826	0.06826(M)
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	343698	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	25040	0.17899	0.1790(M)
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.390	(0.985)	1389	0.05355	0.05355
*	59 Phenanthrene-d10	188	18.676	18.669	(1.000)	678617	4.00000	
$	66 Terphenyl-d14	244	21.787	21.771	(0.919)	527711	4.93729	4.937(R)
	67 Butylbenzylphthalate	149	22.692	22.685	(0.958)	21022	0.24088	0.2409
*	69 Chrysene-d12	240	23.699	23.684	(1.000)	495685	4.00000	
*	77 Perylene-d12	264	26.548	26.517	(1.000)	444419	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.550	29.496	(1.113)	40666	0.28348	0.2835
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052312S.D
Lab Smp Id: 23D0136-03
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	184634	1.06
27 Naphthalene-d8	662220	331110	1324440	697055	5.26
42 Acenaphthene-d10	335558	167779	671116	343698	2.43
59 Phenanthrene-d10	678190	339095	1356380	678617	0.06
69 Chrysene-d12	566969	283485	1133938	495685	-12.57
77 Perylene-d12	522906	261453	1045812	444419	-15.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	-0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	-0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.68	0.04
69 Chrysene-d12	23.68	23.18	24.18	23.70	0.06
77 Perylene-d12	26.52	26.02	27.02	26.55	0.12

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

REVIEW SUMMARY FOR FILE - NT1005052312S.D

Lab ID: 23D0136-03
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 17:54

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

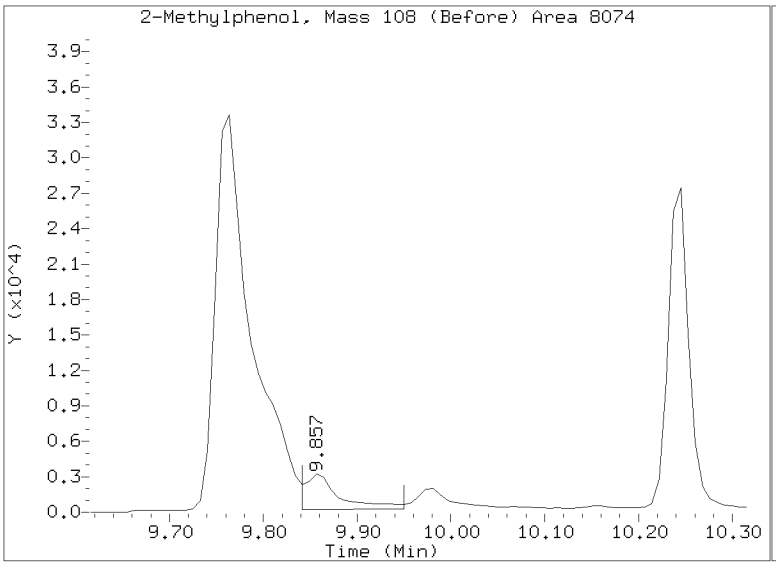
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

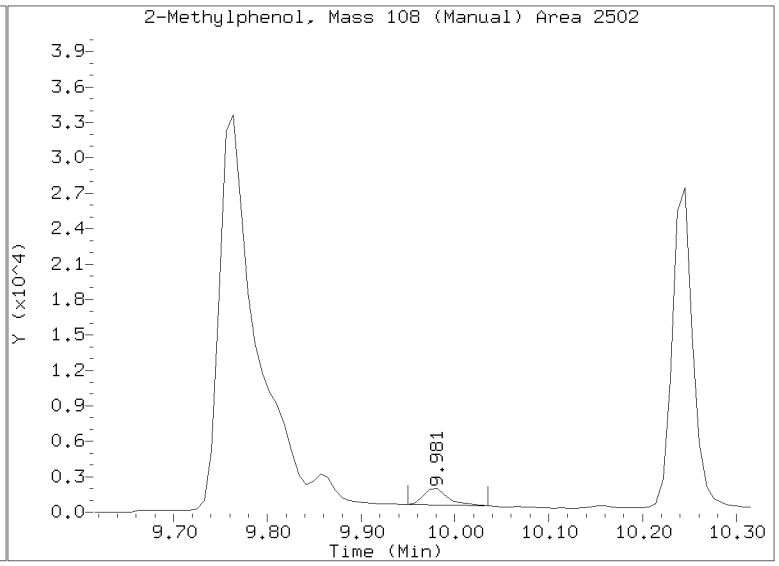
Exception: 1,2,4-Trichlorobenzene 0.0010

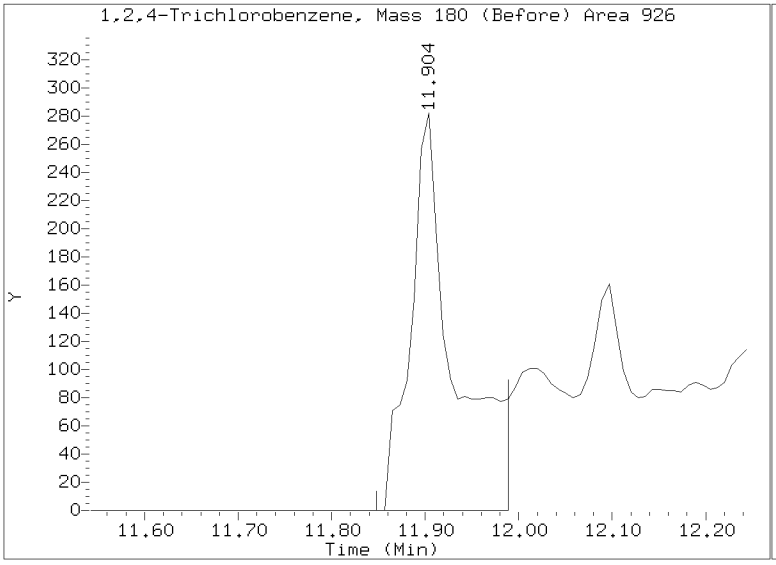
* Only compounds listed in the work order have been verified by the analyst *

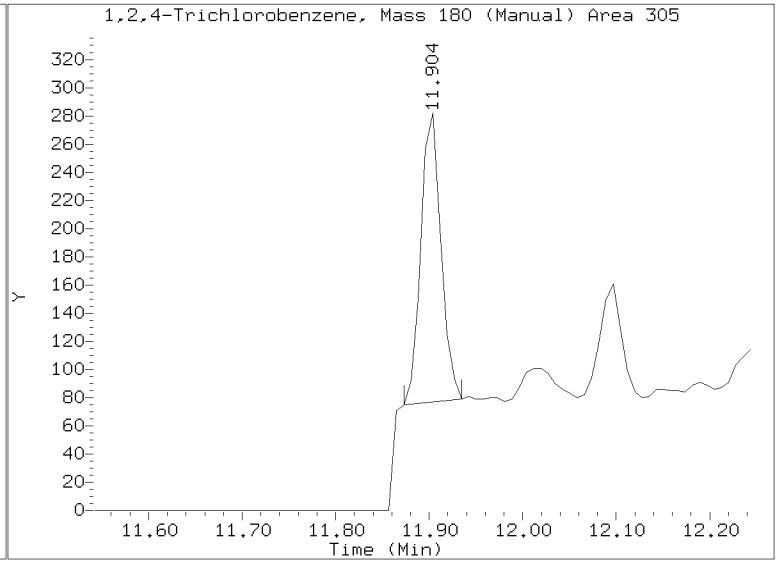
Quant Ion Manual Peak Adjustment Report

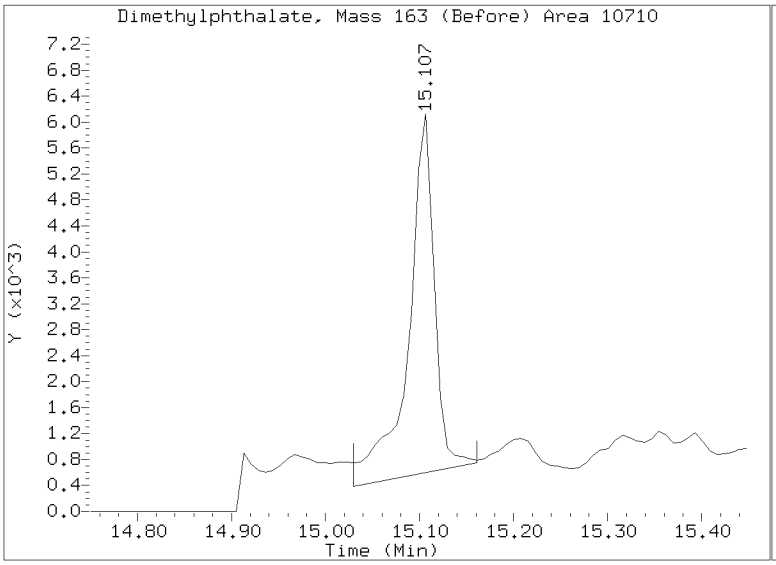
Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052312S.D
Injection Date: 05-MAY-2023 17:54
Lab ID:23D0136-03 Client ID:
Report Date: 05/31/2023 14:31

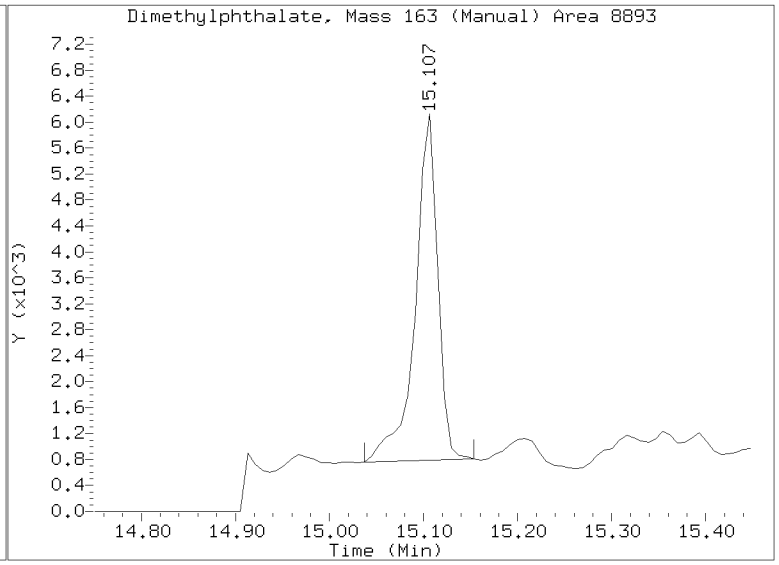






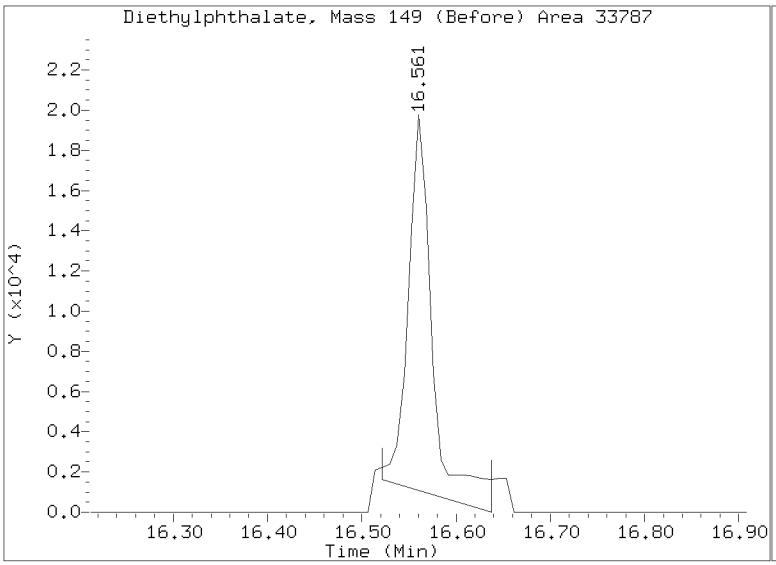


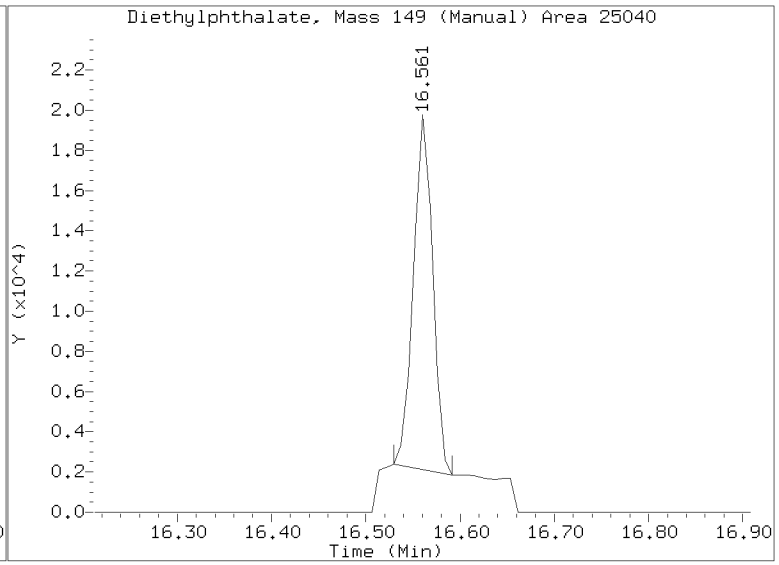




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052312S.D
Injection Date: 05-MAY-2023 17:54
Lab ID:23D0136-03 Client ID:
Report Date: 05/31/2023 14:31





PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0329 Batch Matrix: Solid
Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	NT1005052311S.D	04/18/23 11:16	
LDW23-SS1803	23D0136-03	NT1005052312S.D	04/18/23 11:16	
Blank	BLD0329-BLK2	NT1005052307S.D	04/18/23 11:16	
LCS	BLD0329-BS2	NT1005052308S.D	04/18/23 11:16	
LCS Dup	BLD0329-BSD2	NT1005052309S.D	04/18/23 11:16	
LDW23-SS1803	BLD0329-MS2	NT1005052313S.D	04/18/23 11:16	
LDW23-SS1803	BLD0329-MSD2	NT1005052314S.D	04/18/23 11:16	
Reference	BLD0329-SRM2	NT1005052310S.D	04/18/23 11:16	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0329

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid Date Prepared: 04/18/23 Balance ID: B146462614 Set Up By: CRD 4/18/23

WO Comments
23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23D0136-01 A	49.3	(20.27) 26.29	(1:1)	1mL	1	0.5	
23D0136-03 A	44.3	(22.57) 22.58	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0329-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLD0329-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLD0329-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLD0329-MS1	44.3	(22.57) 22.57	(1:1)	1mL	1	0.5	Use 23D0136-03
BLD0329-MSD1	44.3	(22.57) 22.57	(1:1)	1mL	1	0.5	Use 23D0136-03
BLD0329-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1	0.5	Use K003477

+1g DI WATER

04/18/23 — Client ID verified By — Date

AA — Preparation Reviewed By — 5-4-23 — Date

04/18/23 11:16 — Extraction Date and Time

Printed: 4/13/2023 9:28:30AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0329

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

Prep Steps	Reagents Used		Surrogates & Spike Standards Used
Microwave 1 2 3 CG 4/18/23 Analyst/Date	**Station/Reagent**	**Standard ID**	
	Microwave Analyst: CG Date: 4/18/23		
	Anhydrous Sodium Sulfate	L004657	
	1:1 Methylene Chloride/Acetone	L004244	
	Methylene Chloride	L004621	
	Pre-Deactivated Glass Wool	L004924	
Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 5 6 4/24/23 Analyst/Date	**Pre GPC KD** Analyst: Date: 4/24/23		
	~~Pre-Deactivated Glass Wool~~		
	~~Anhydrous Sodium Sulfate~~		
TurboVap **Pre GPC** 1 2 3 4 5 LJ 4/26/23 Analyst/Date	Methylene Chloride	L002621	
	Hexane	L003500	
	GPC Filter Prep Analyst: LJ Date: 4/26/23		
Post GPC KD 80-85°C 0 1 2 4 5 6 LJ 5/3/23 Analyst/Date	Methylene Chloride	K005941	
	GPC Filter	L001799	
	GPC Analyst: AA Date: 4-27-23		
TurboVap 1 2 3 4 5 AA 5-4-23 Analyst/Date	Methylene Chloride	K005941	
	GPC Calibration File	C1C0059-GPC2	
	Post GPC KD Analyst: LJ Date: 5/3/23		
Water Wash AA 5-4-23 Analyst/Date	Methylene Chloride	L004175	
	Vialing Analyst: AA Date: 5-4-23		
	Methylene Chloride	L004175	

Type	Vial ID / Standard ID		Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A Exp Date:	L001153 3/1/2023	50µL	CG	✓
Full List Spike (Freezer) 100µg/mL	7 Exp Date:	L001812 (V) 3/4/2023	50µL	CG	✓
Base Spike 200µg/mL	56 Exp Date:	L001812 (V) L004778 3/20/2023	50µL	CG	✓
Acid Spike 100/200µg/mL	38 Exp Date:	L001812 (V) L004779 8/20/2023	50µL	CG	✓

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0329

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch: BLD0329

Total Solids Batch: BLD0208 Work Order(s): 23D0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-04	CR 4/12/23
[ ] Standing Water Decanted (Not shared)=	
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 4/12/23
[X] Multiple Jars Y / (N)	CR 4/12/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0051	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1803	23D0136-03	NT1005052312S.D	05/04/2023	
Reference	BLD0329-SRM2	NT1005052310S.D	05/04/2023	
LDW23-SS1804	23D0136-01	NT1005052311S.D	05/04/2023	
Blank	BLD0329-BLK2	NT1005052307S.D	05/04/2023	
LCS	BLD0329-BS2	NT1005052308S.D	05/04/2023	
Matrix Spike Dup	BLD0329-MSD2	NT1005052314S.D	05/04/2023	
Matrix Spike	BLD0329-MS2	NT1005052313S.D	05/04/2023	
LCS Dup	BLD0329-BSD2	NT1005052309S.D	05/04/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E-SIM

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0329-BLK2	File ID:	NT1005052307S.D
Sampled:	N/A	Prepared:	04/18/23 11:16	Analyzed:	05/05/23 14:40
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLD0329	Sequence:	SLE0466	Calibration:	GE00018
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	0.8	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	0.7	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	11.1	J	2.5	20.0
65-85-0	Benzoic acid	1	200	U	13.4	200
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	20.0	U	2.1	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	284	37.8	27 - 120	
p-Terphenyl-d14	500.00	380	76.0	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523075.D

Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

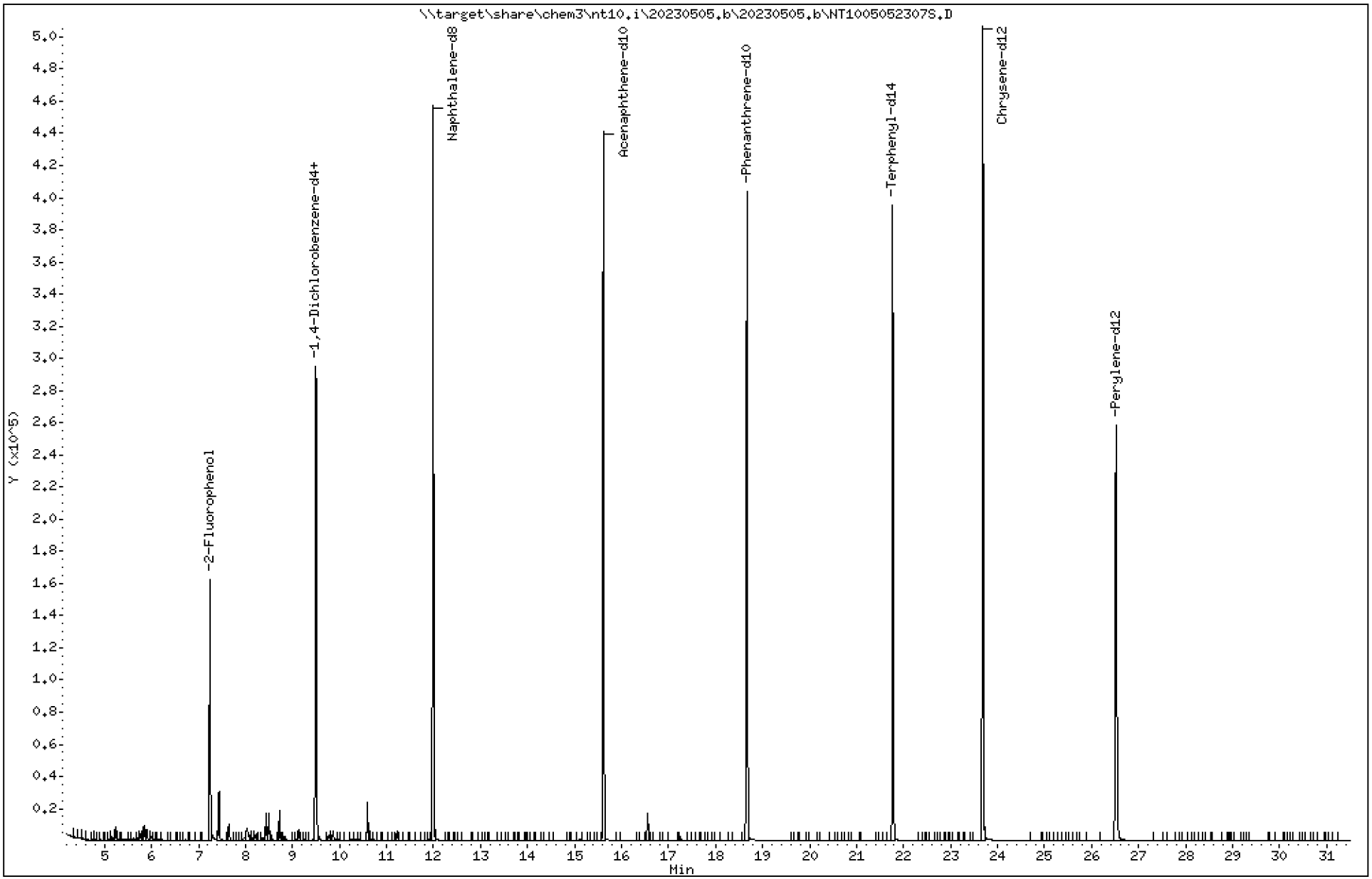
Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1543 of 4865

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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

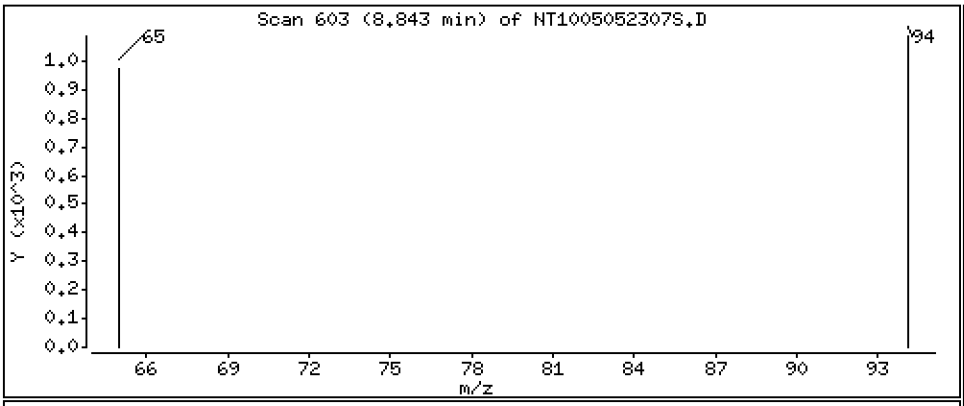
Operator: DSD

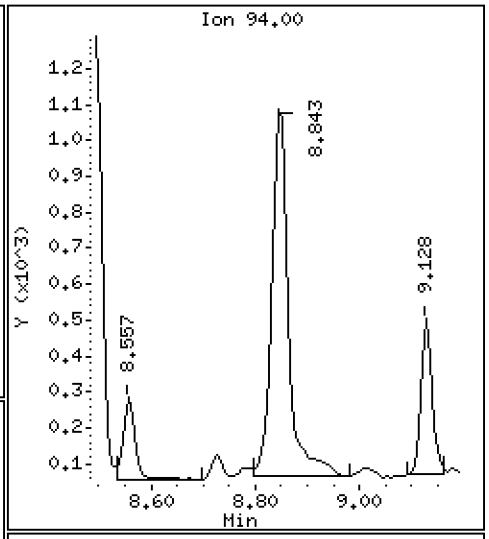
Column phase: ZB-5msi

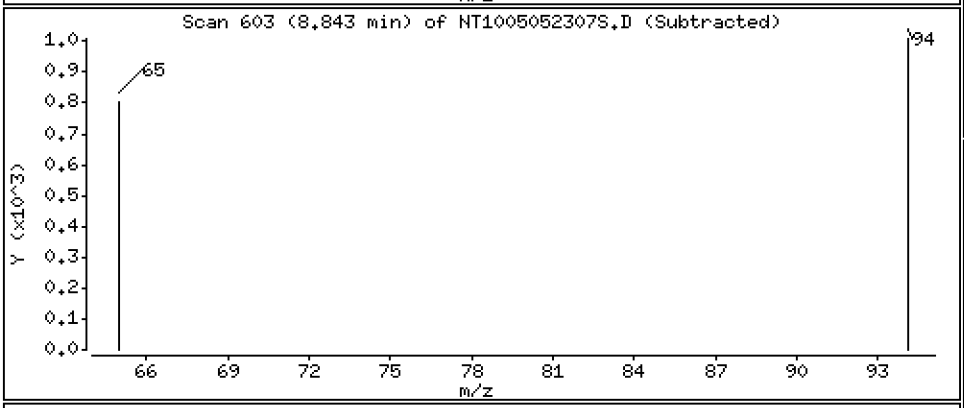
Column diameter: 0.25

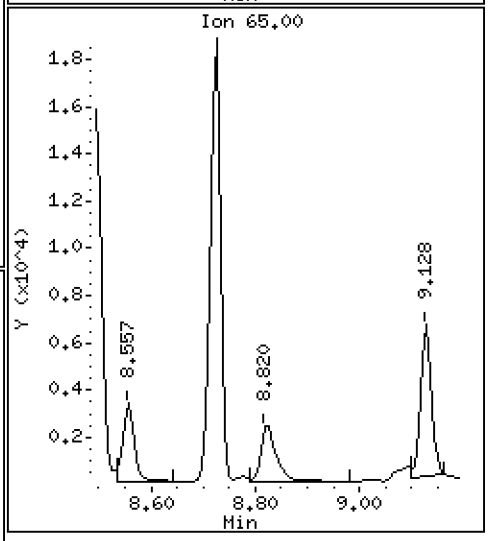
3 Phenol

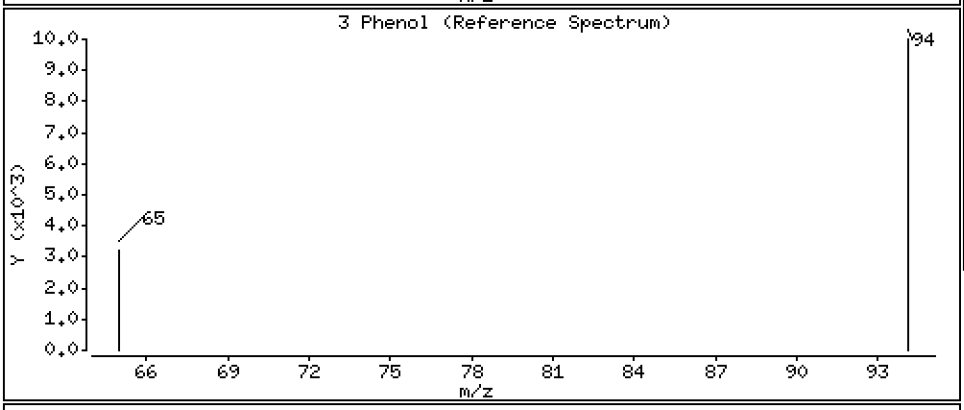
Concentration: 0.03104 ug/L

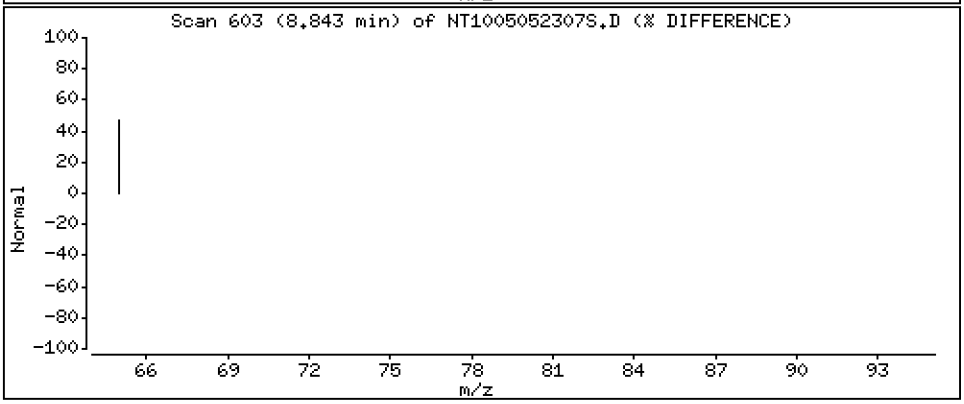












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

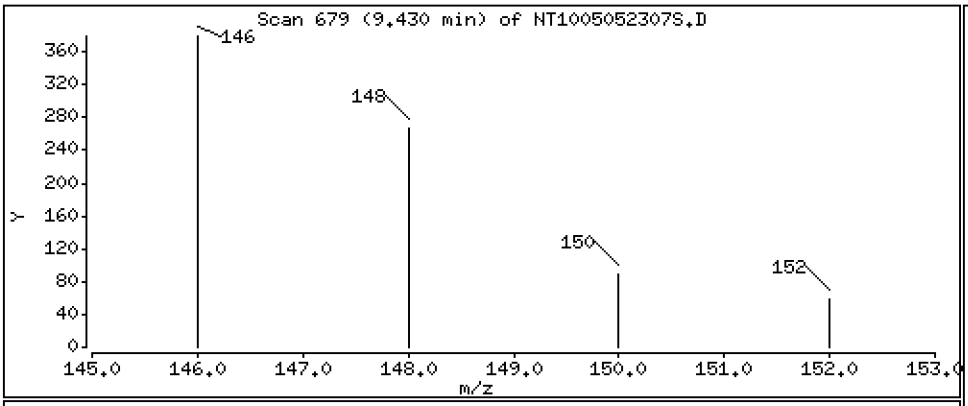
Operator: DSD

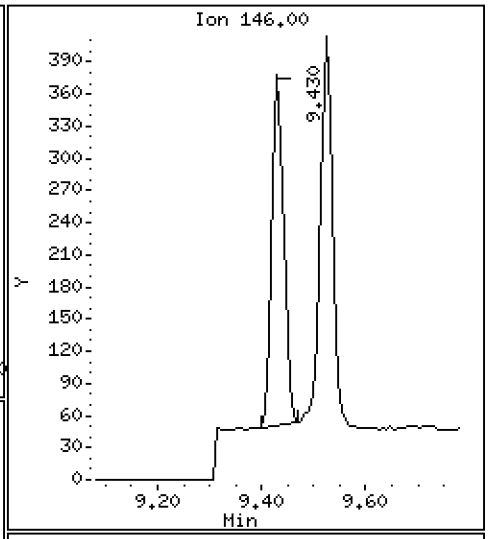
Column phase: ZB-5msi

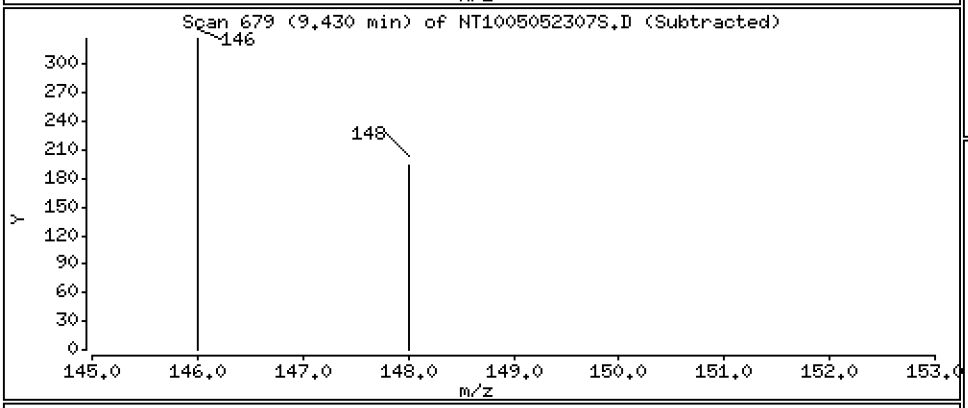
Column diameter: 0.25

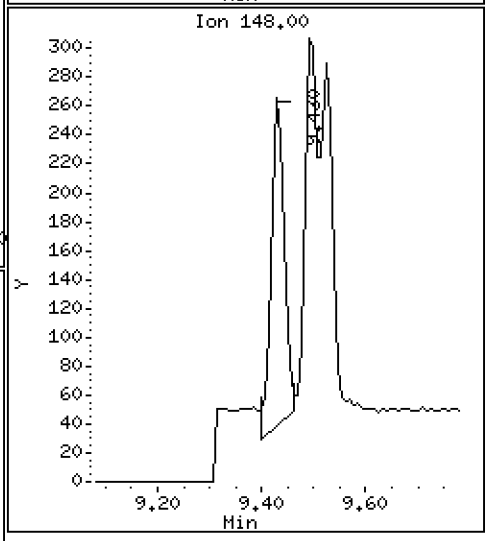
7 1,3-Dichlorobenzene

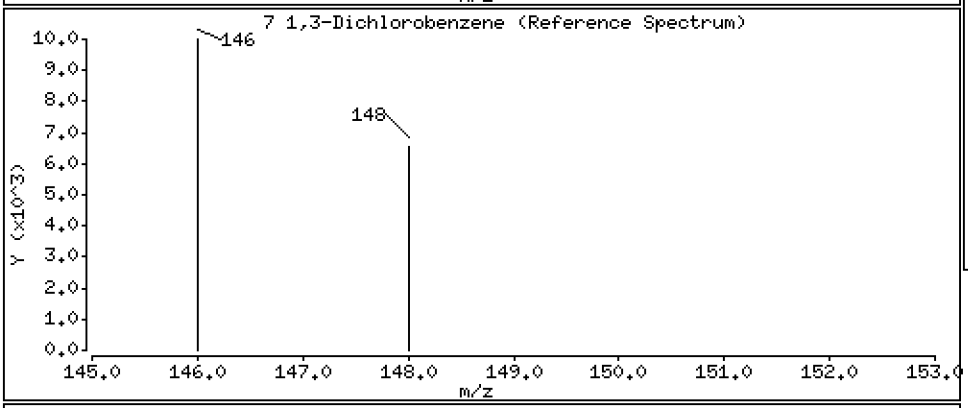
Concentration: 0.006817 ug/L

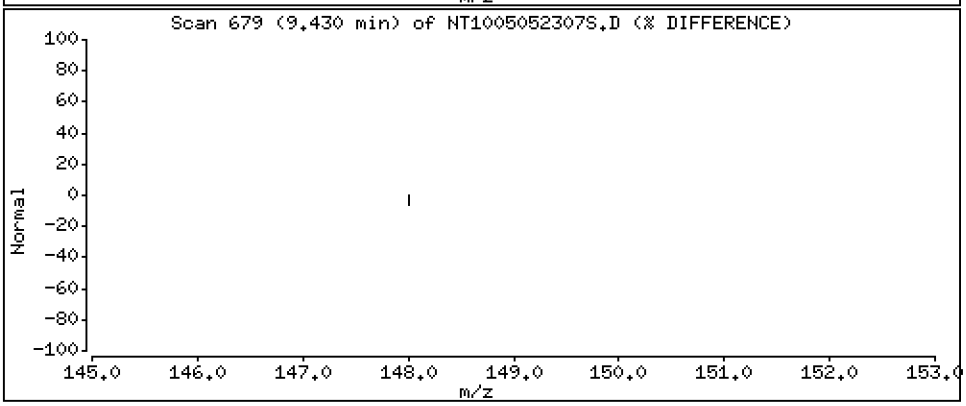












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

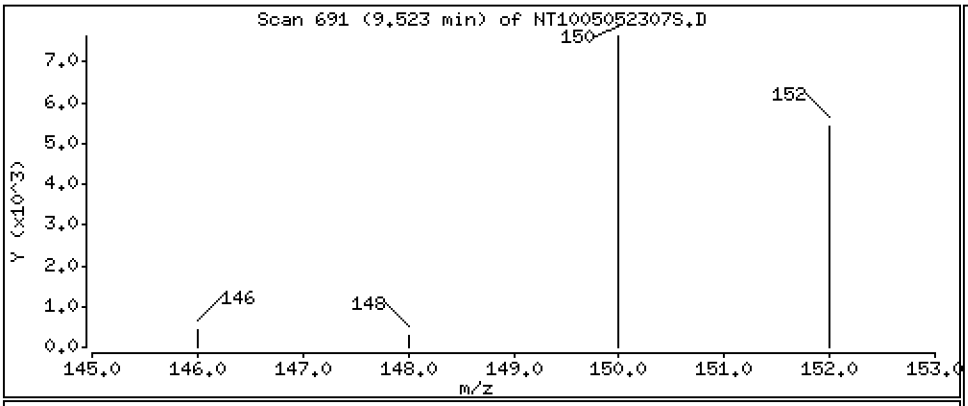
Operator: DSD

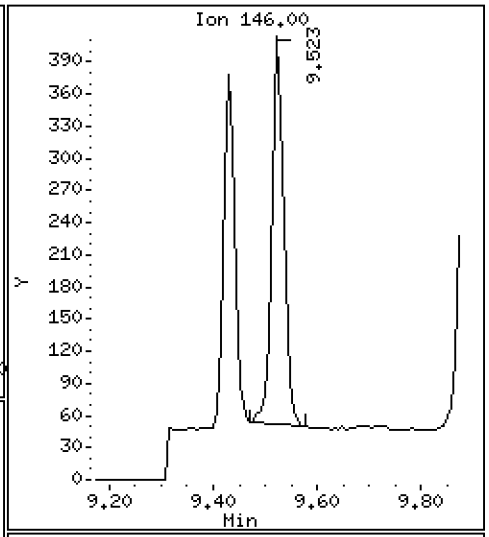
Column phase: ZB-5msi

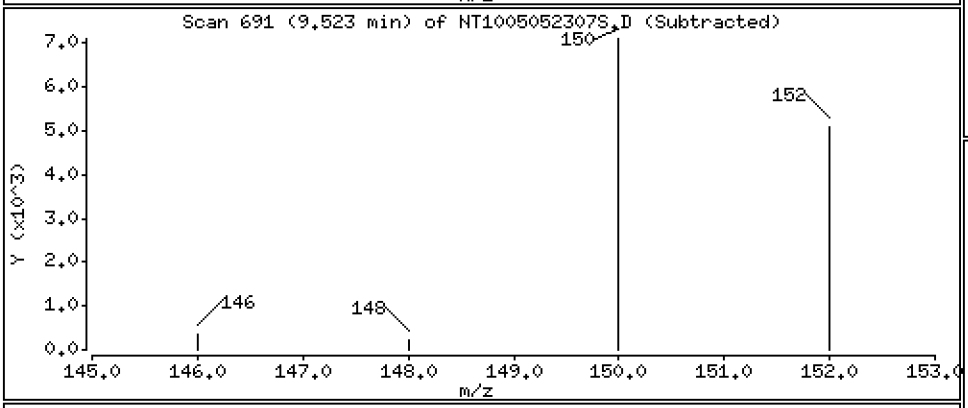
Column diameter: 0.25

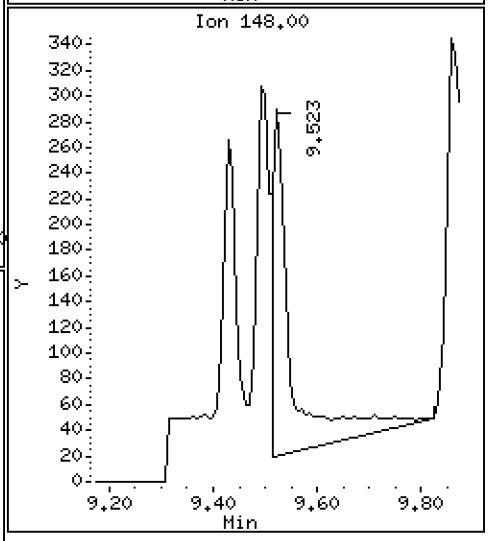
9 1,4-Dichlorobenzene

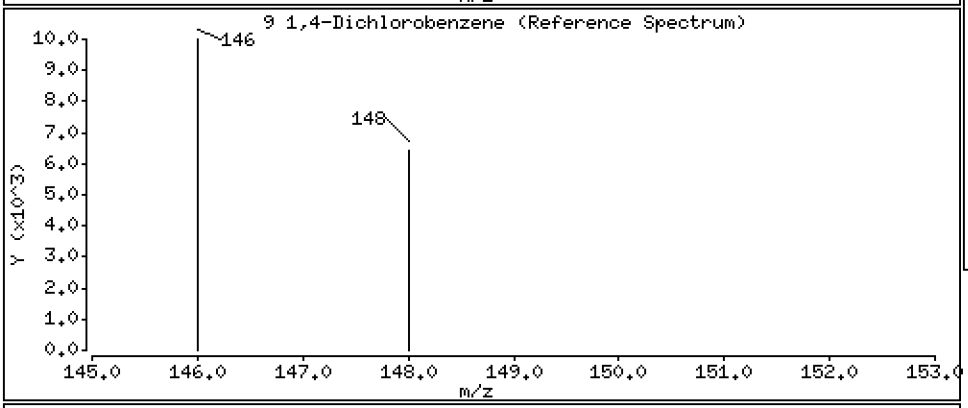
Concentration: 0.007561 ug/L

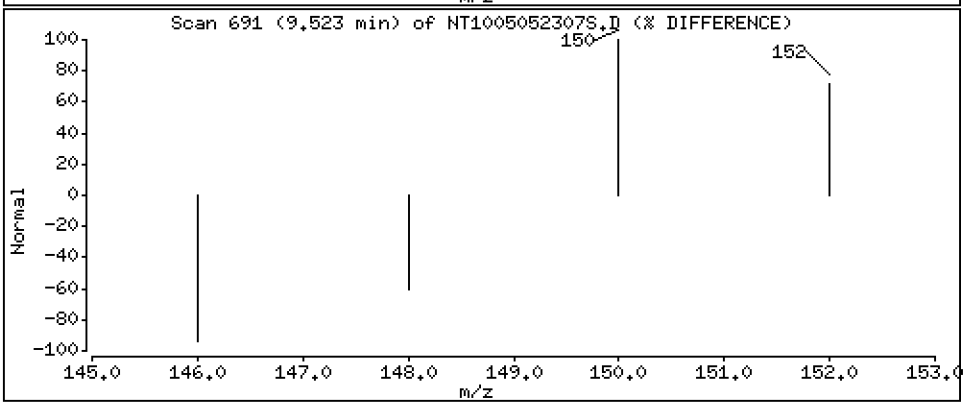












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

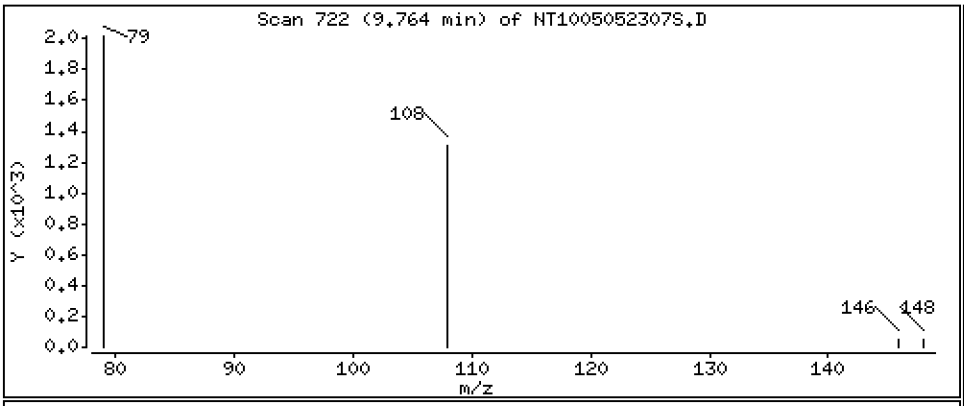
Operator: DSD

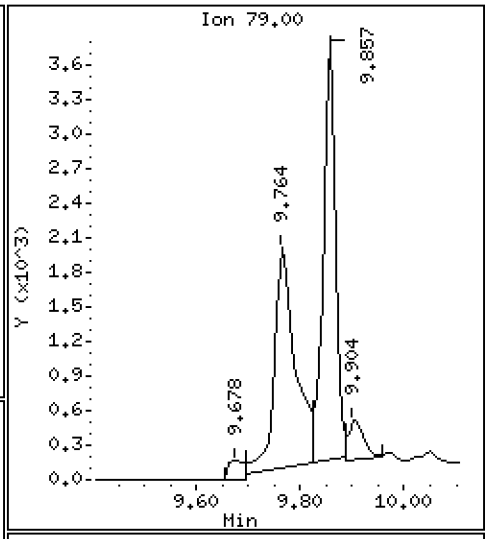
Column phase: ZB-5msi

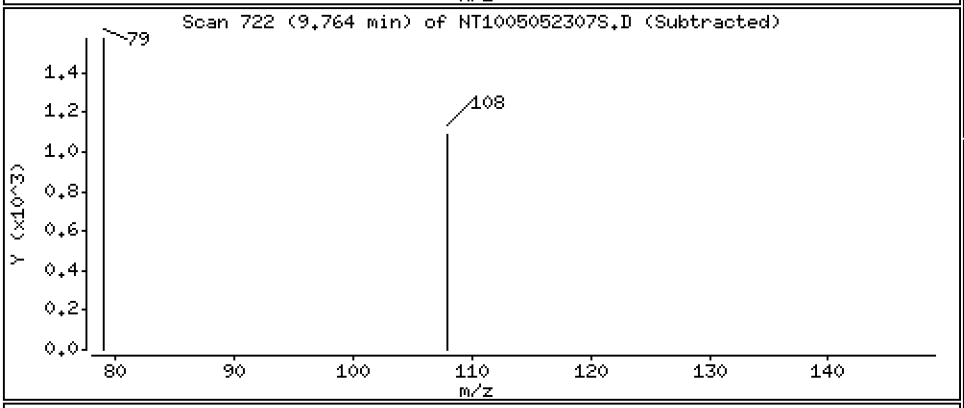
Column diameter: 0.25

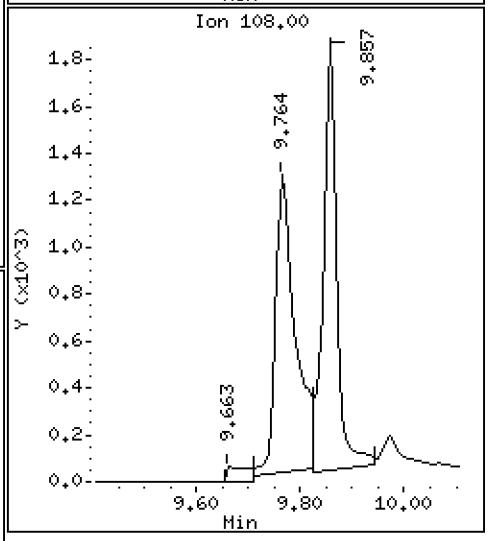
11 Benzyl alcohol

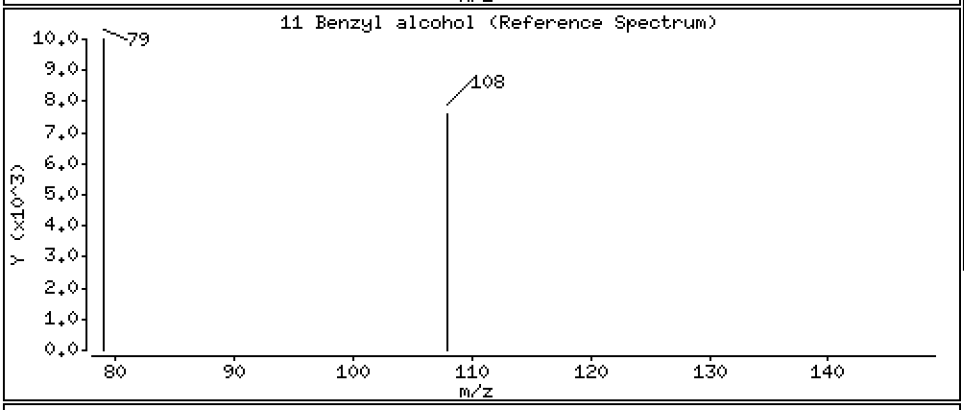
Concentration: 0.1107 ug/L

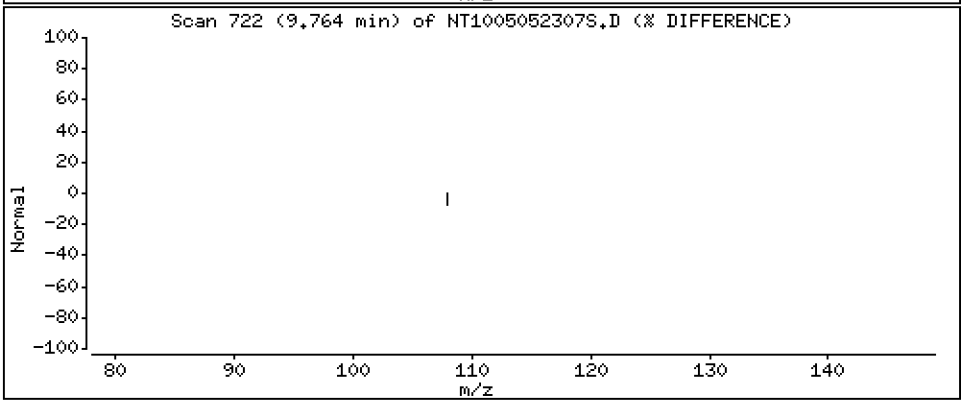












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

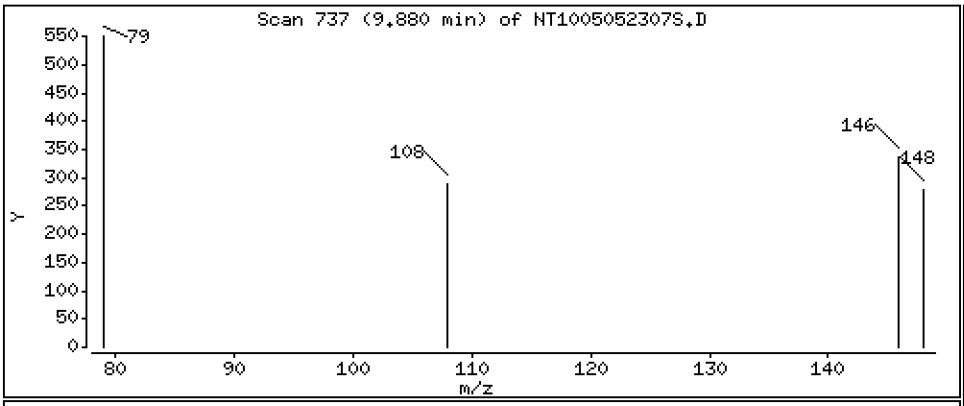
Operator: DSD

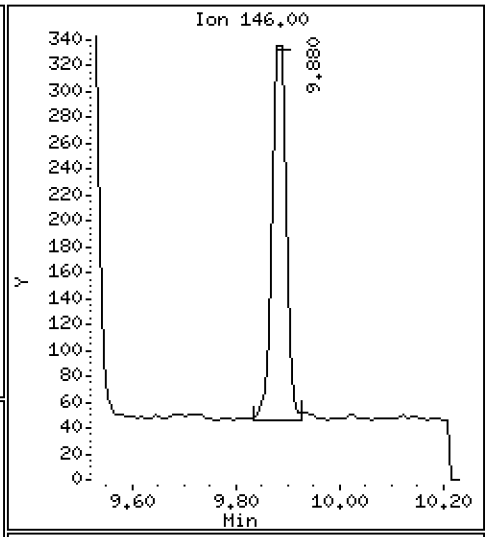
Column phase: ZB-5msi

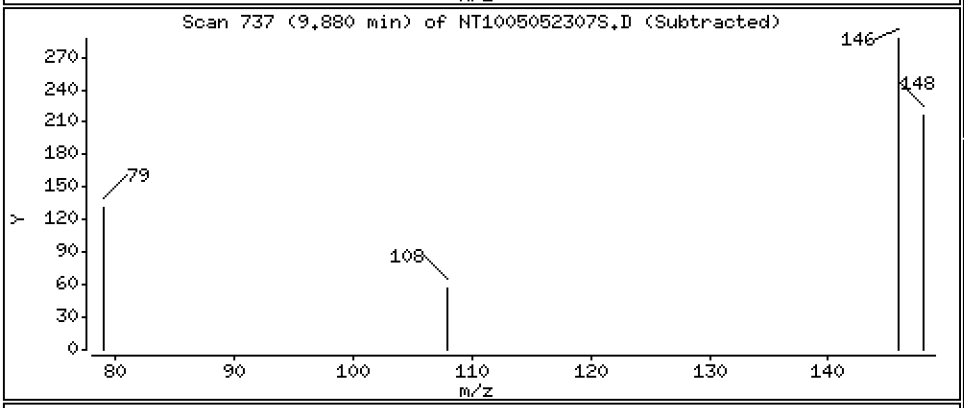
Column diameter: 0.25

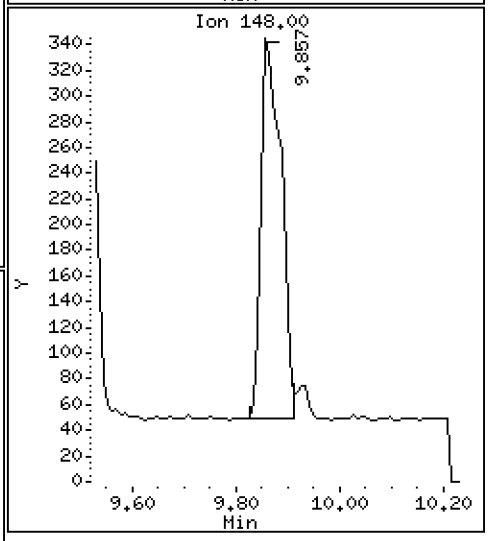
12 1,2-Dichlorobenzene

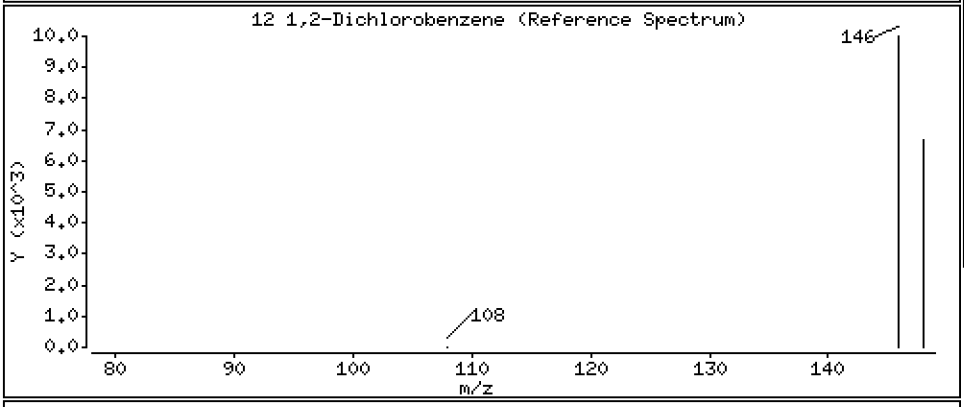
Concentration: 0.007396 ug/L

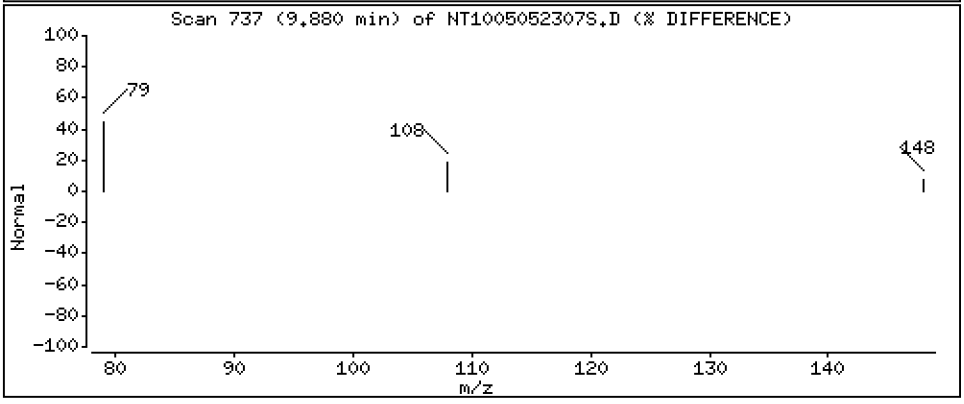












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Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

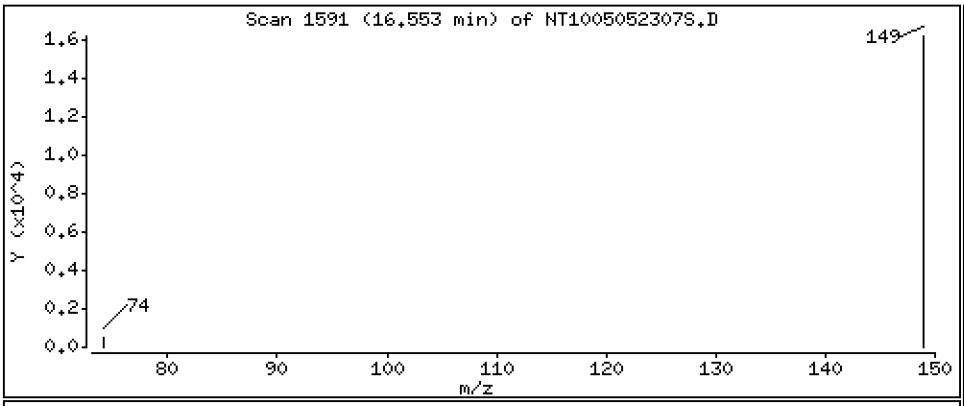
Operator: DSD

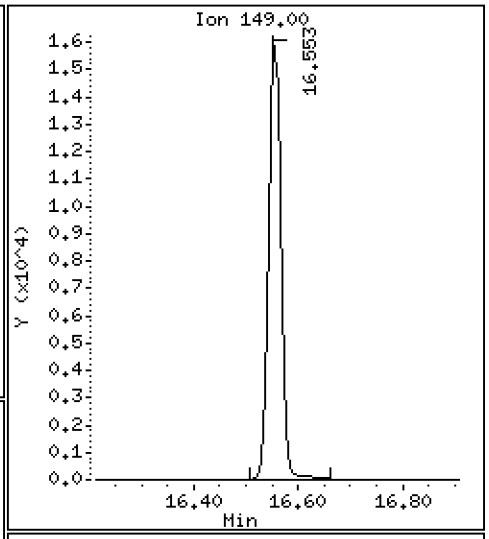
Column phase: ZB-5msi

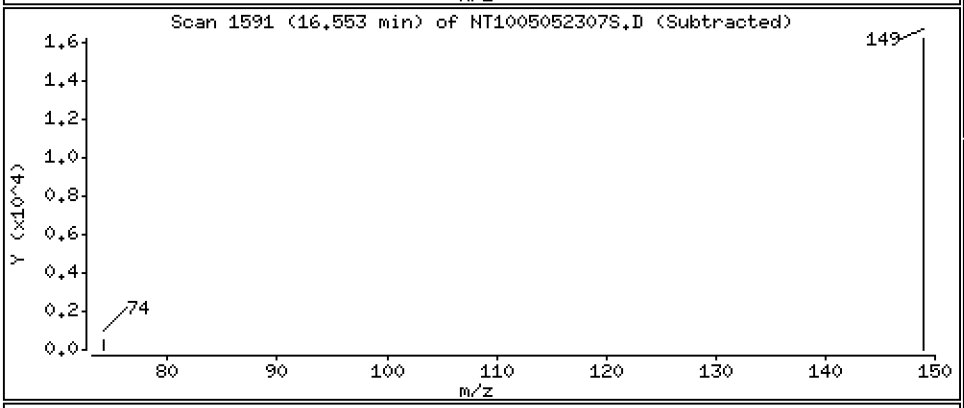
Column diameter: 0.25

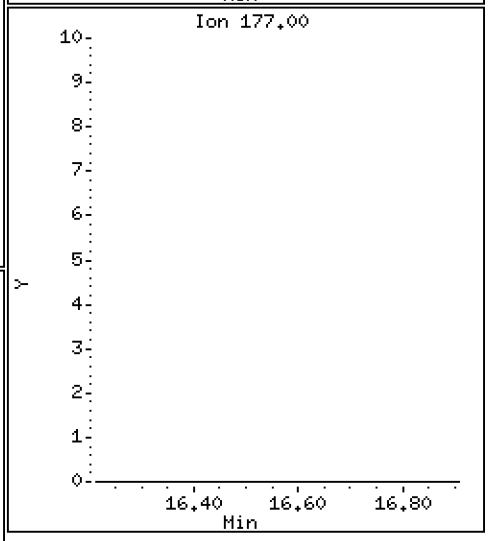
50 Diethylphthalate

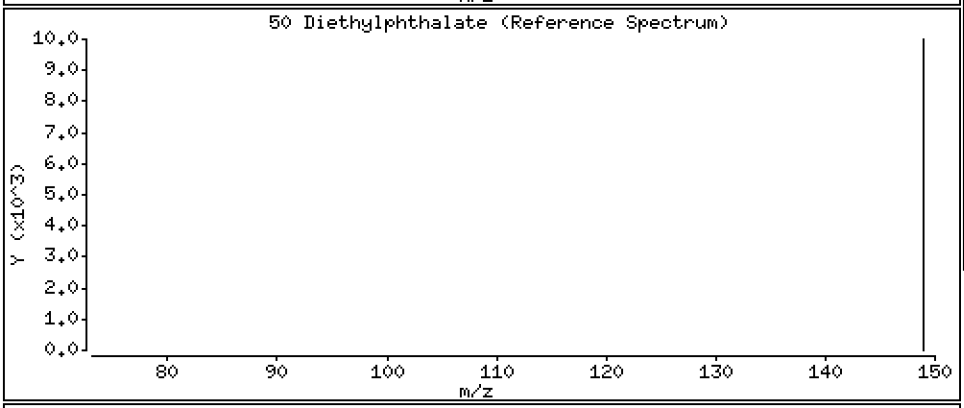
Concentration: 0.1775 ug/L

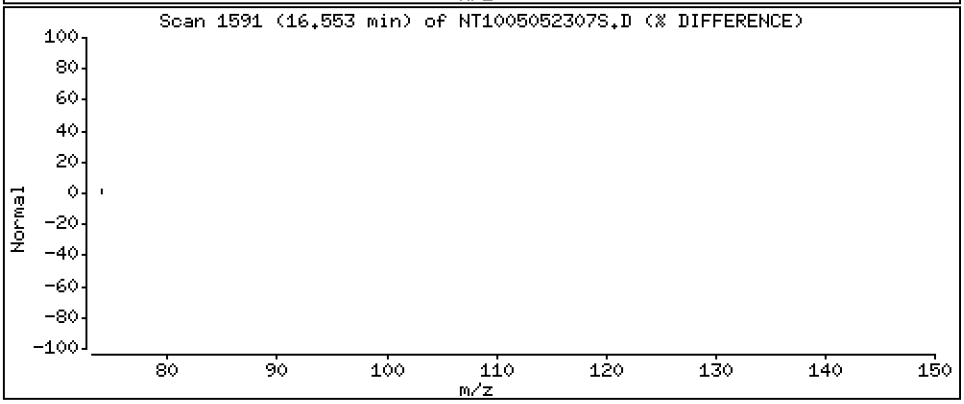












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052307S.D

Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

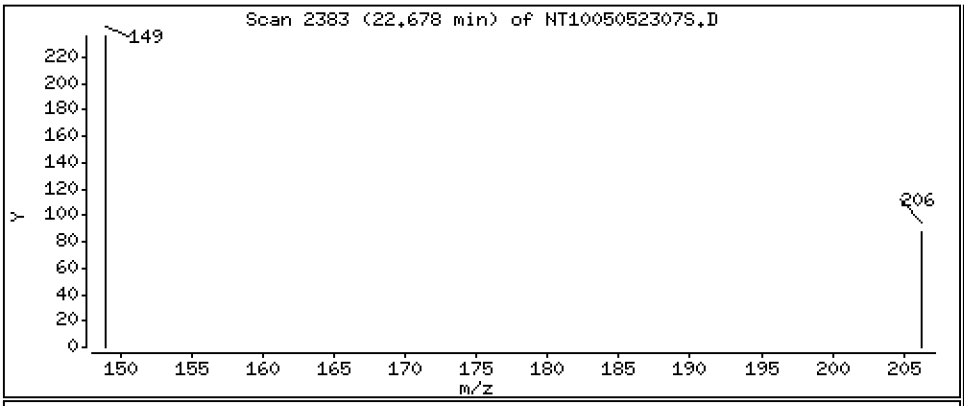
Operator: DSD

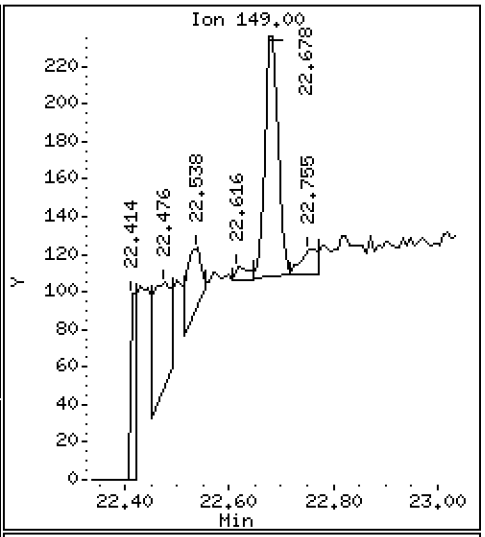
Column phase: ZB-5msi

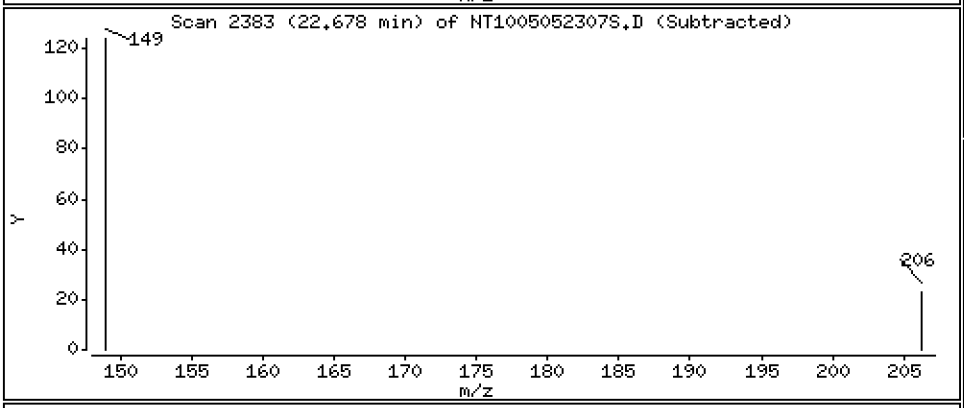
Column diameter: 0.25

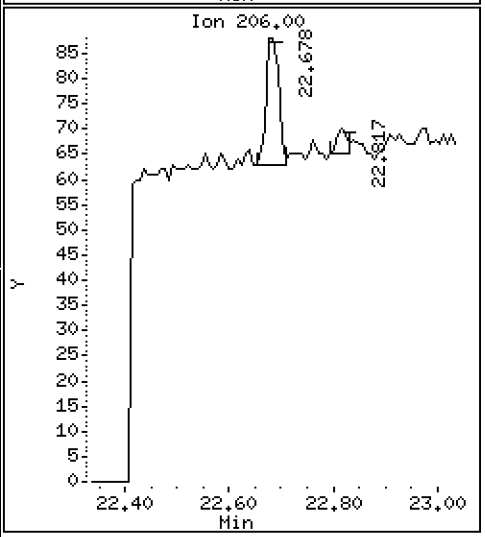
67 Butylbenzylphthalate

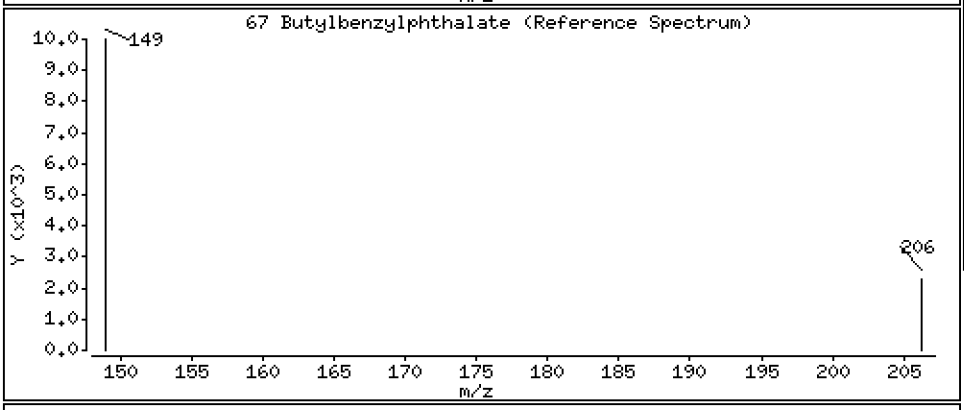
Concentration: 0.002183 ug/L

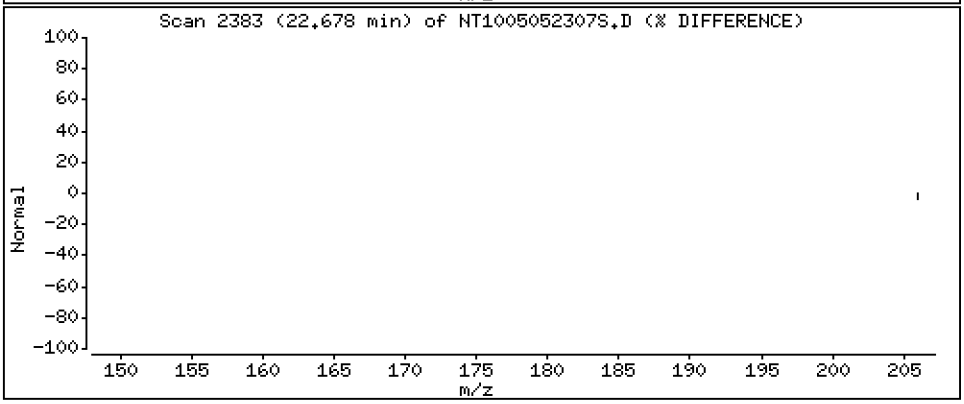












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052307S.D

Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

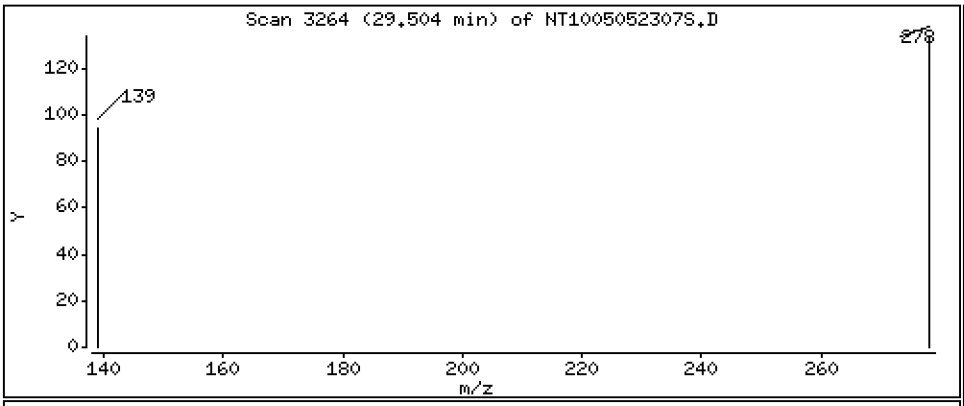
Operator: DSD

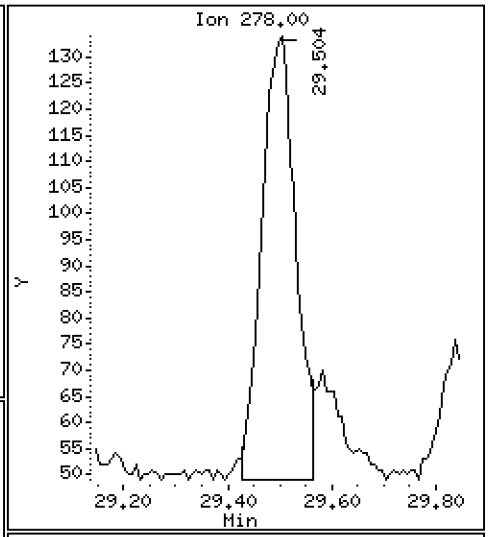
Column phase: ZB-5msi

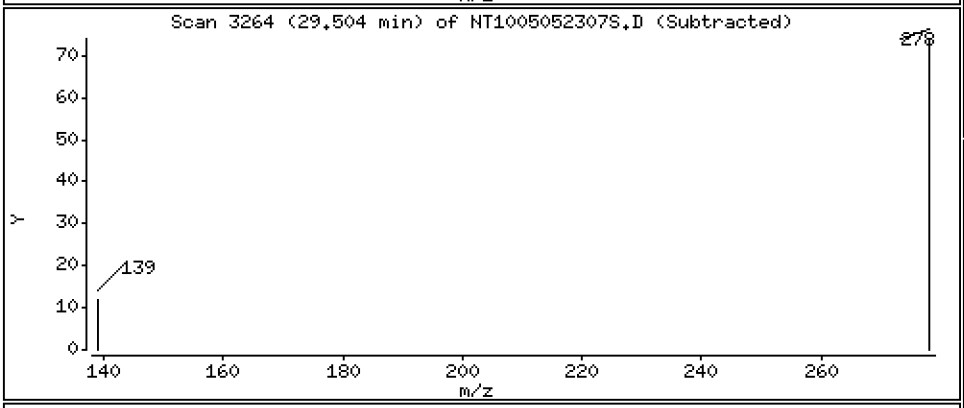
Column diameter: 0.25

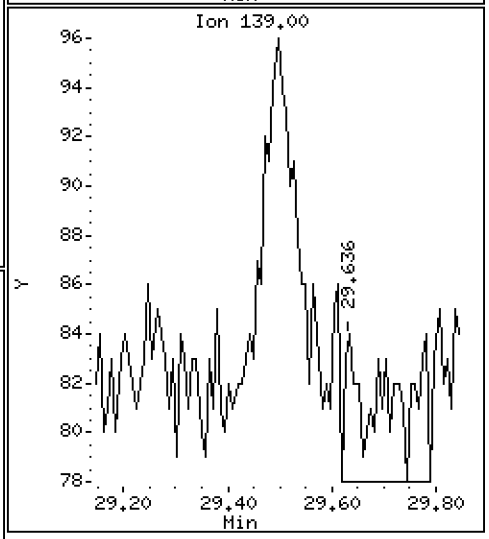
79 Dibenzo(a,h)anthracene

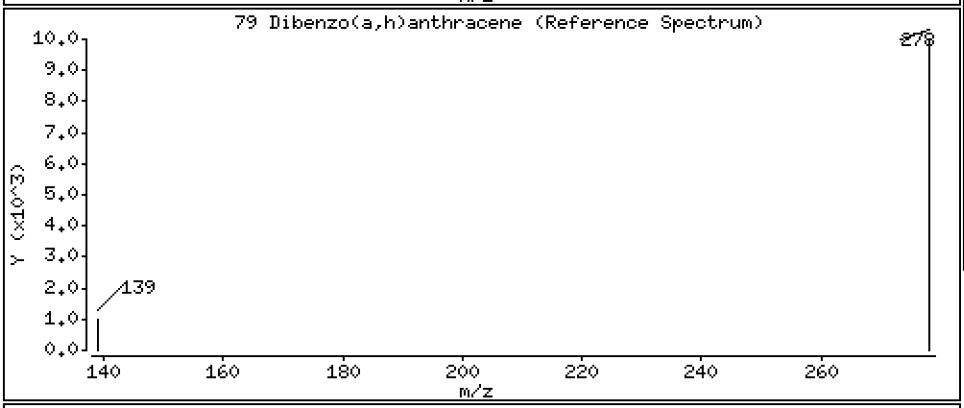
Concentration: 0.002430 ug/L

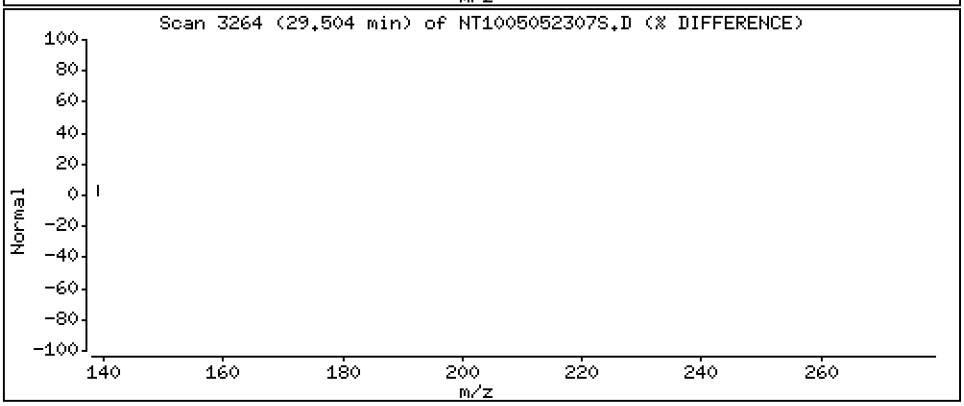












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052307S.D

Date : 05-MAY-2023 14:40

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BLK2

Volume Injected (uL): 1.0

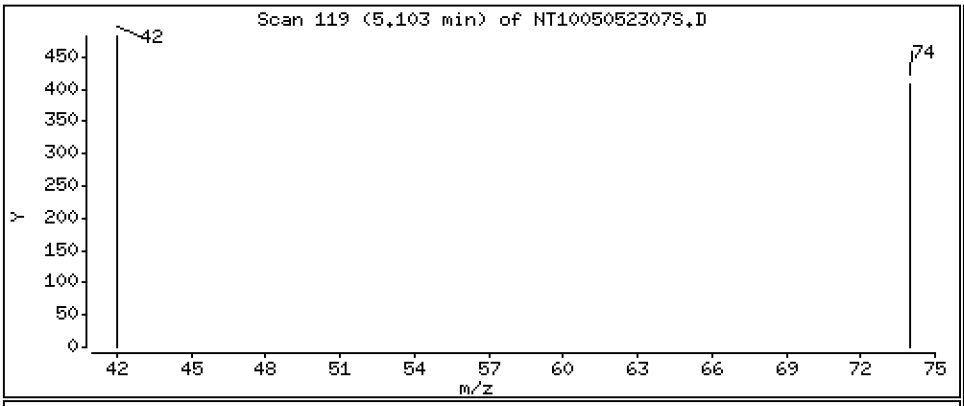
Operator: DSD

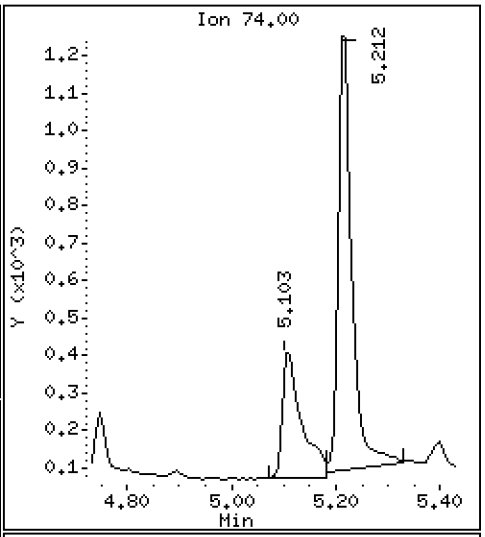
Column phase: ZB-5msi

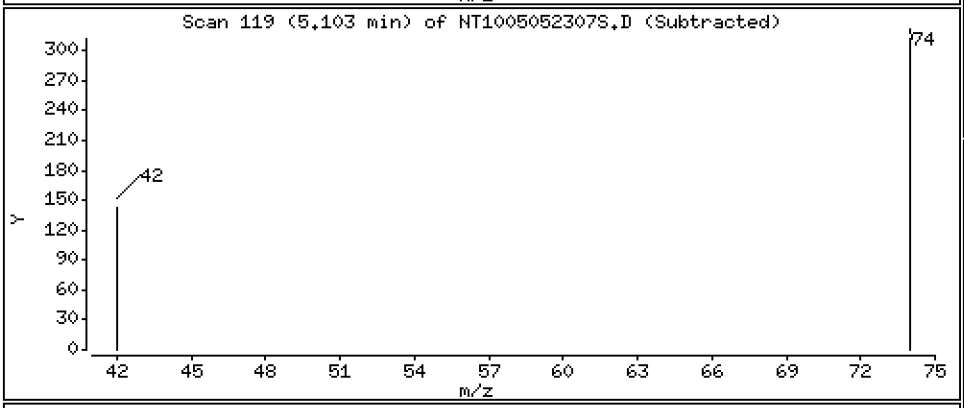
Column diameter: 0.25

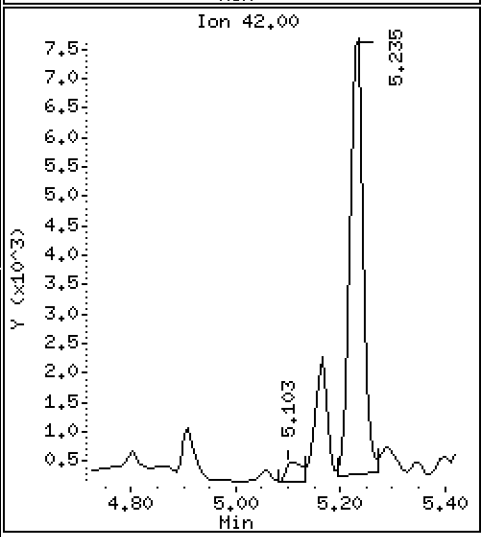
90 N-Nitrosodimethylamine

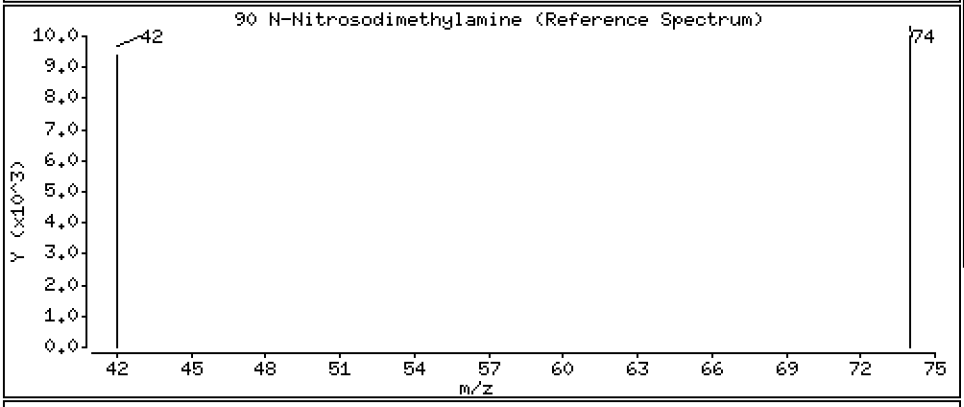
Concentration: 0.02922 ug/L

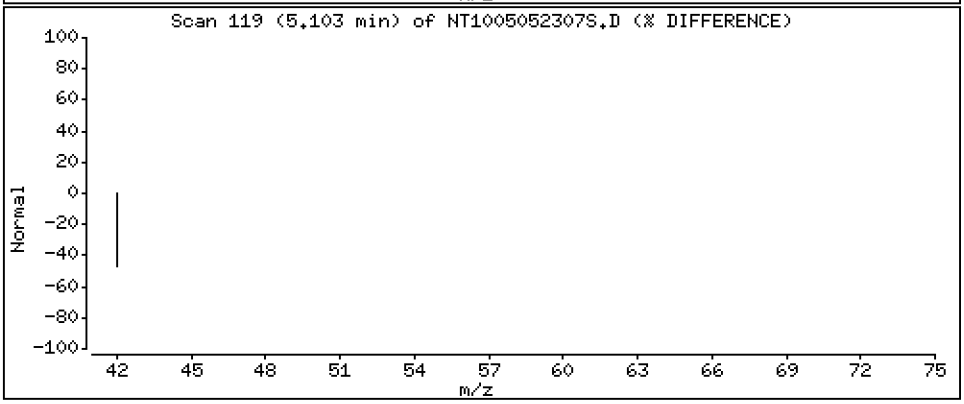












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052307S.D
Lab Smp Id: BLD0329-BLK2
Inj Date : 05-MAY-2023 14:40 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0329-BLK2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.762)	160215	2.83774	2.838(R)
3	Phenol	94	8.842	8.842	(0.931)	2195	0.03104	0.03104
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	507	0.00682	0.006817(M)
* 8	1,4-Dichlorobenzene-d4	152	9.499	9.492	(1.000)	185339	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.002)	557	0.00756	0.007561(M)
11	Benzyl alcohol	79	9.763	9.756	(1.028)	5413	0.11068	0.1107
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.040)	524	0.00740	0.007396(M)
13	2-Methylphenol	108	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	684119	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
* 42	Acenaphthene-d10	162	15.609	15.617	(1.000)	343668	4.00000	
50	Diethylphthalate	149	16.552	16.560	(1.060)	24825	0.17747	0.1775
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.661	18.669	(1.000)	674902	4.00000	
$	66 Terphenyl-d14	244	21.771	21.771	(0.919)	459375	3.80019	3.800(R)
	67 Butylbenzylphthalate	149	22.677	22.685	(0.957)	215	0.00218	0.002183
*	69 Chrysene-d12	240	23.684	23.684	(1.000)	560609	4.00000	
*	77 Perylene-d12	264	26.517	26.517	(1.000)	497276	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.503	29.496	(1.113)	390	0.00243	0.002430(M)
	90 N-Nitrosodimethylamine	74	5.103	5.080	(0.537)	900	0.02922	0.02922

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052307S.D
Lab Smp Id: BLD0329-BLK2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	185339	1.44
27 Naphthalene-d8	662220	331110	1324440	684119	3.31
42 Acenaphthene-d10	335558	167779	671116	343668	2.42
59 Phenanthrene-d10	678190	339095	1356380	674902	-0.48
69 Chrysene-d12	566969	283485	1133938	560609	-1.12
77 Perylene-d12	522906	261453	1045812	497276	-4.90

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	-0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.61	-0.05
59 Phenanthrene-d10	18.67	18.17	19.17	18.66	-0.04
69 Chrysene-d12	23.68	23.18	24.18	23.68	-0.00
77 Perylene-d12	26.52	26.02	27.02	26.52	-0.00

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

REVIEW SUMMARY FOR FILE - NT1005052307S.D

Lab ID: BLD0329-BLK2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 14:40

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

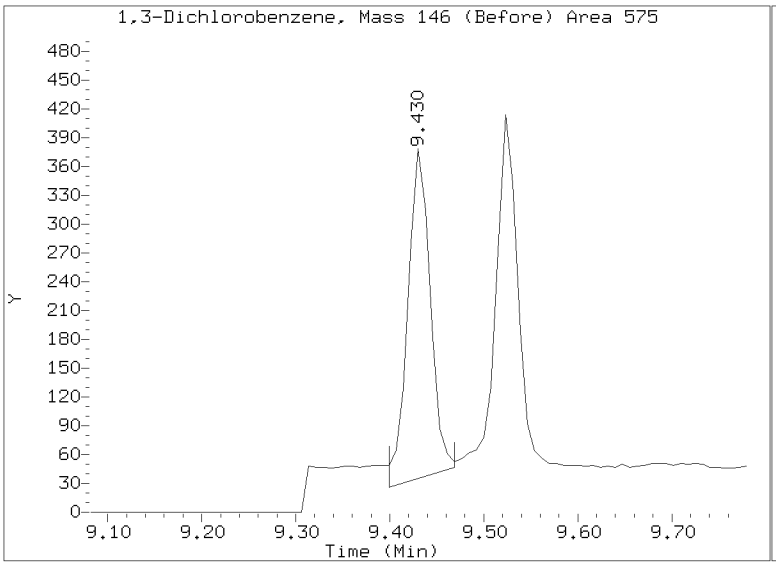
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

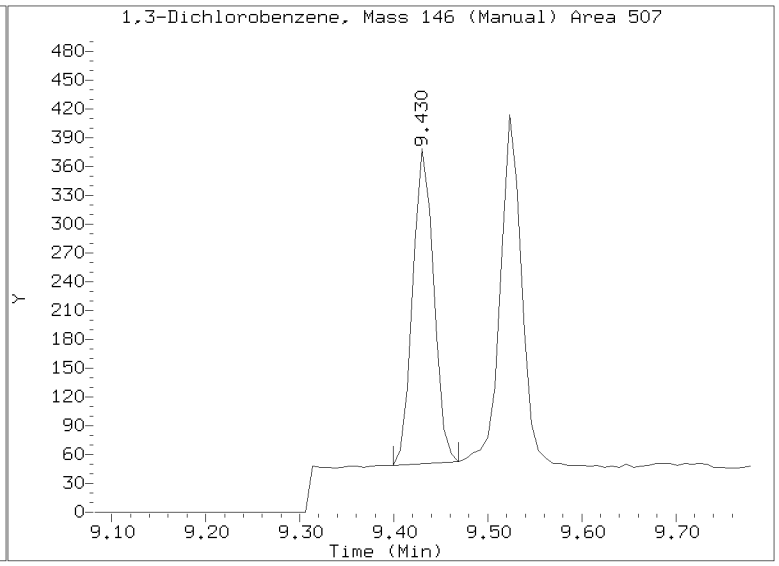
Exception: 1,2,4-Trichlorobenzene 0.0010

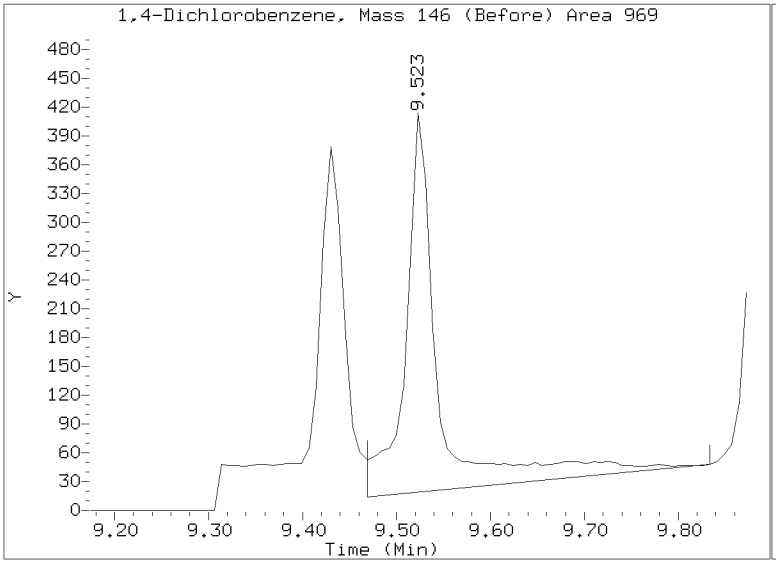
* Only compounds listed in the work order have been verified by the analyst *

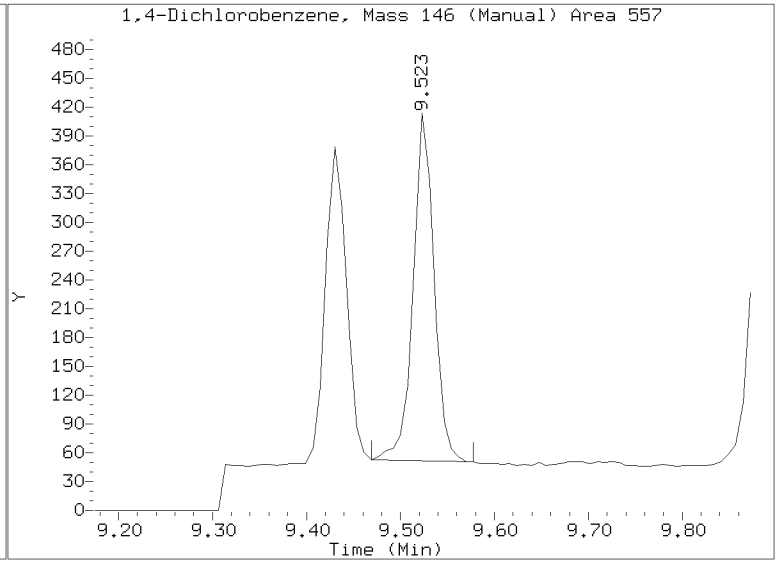
Quant Ion Manual Peak Adjustment Report

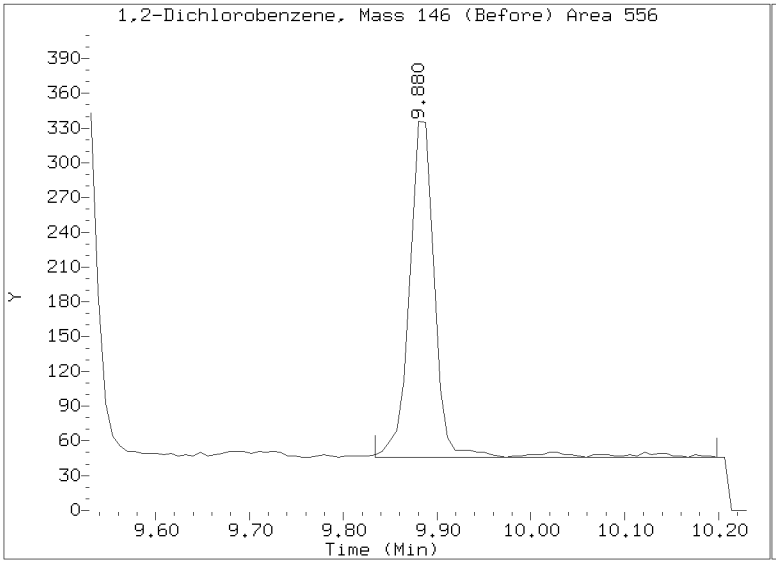
Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052307S.D
Injection Date: 05-MAY-2023 14:40
Lab ID:BLD0329-BLK2 Client ID:
Report Date: 05/31/2023 14:30

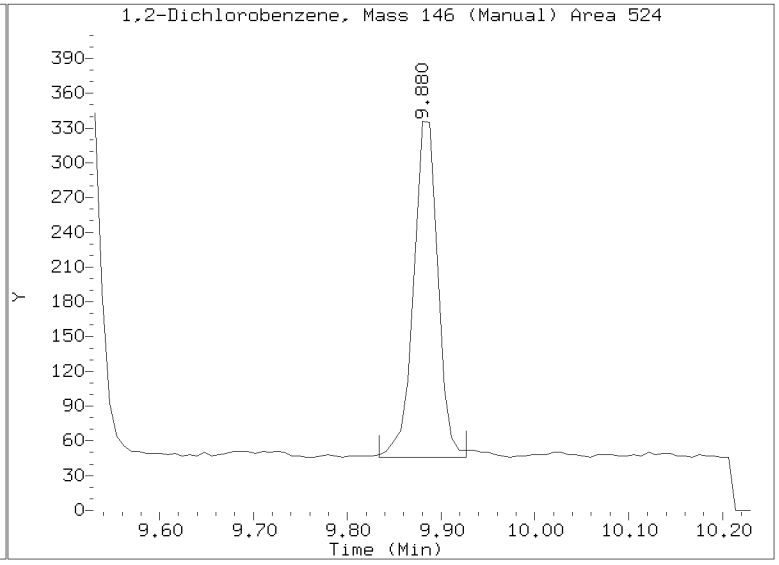






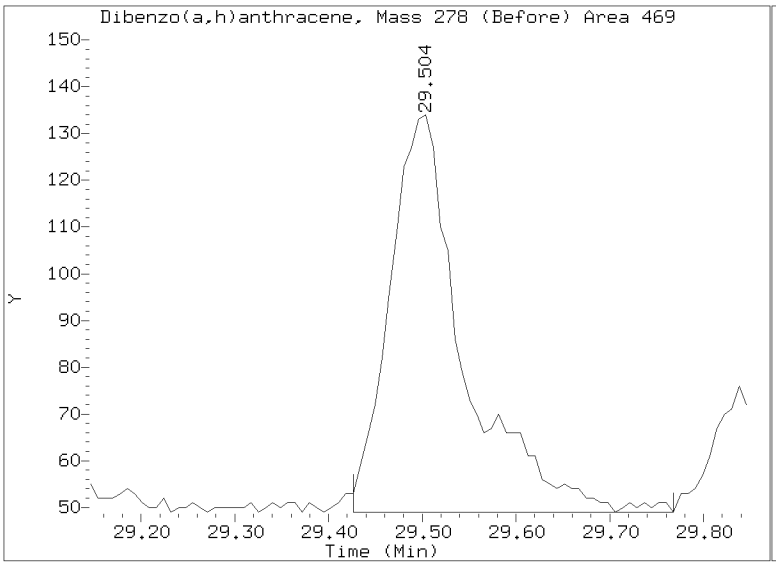


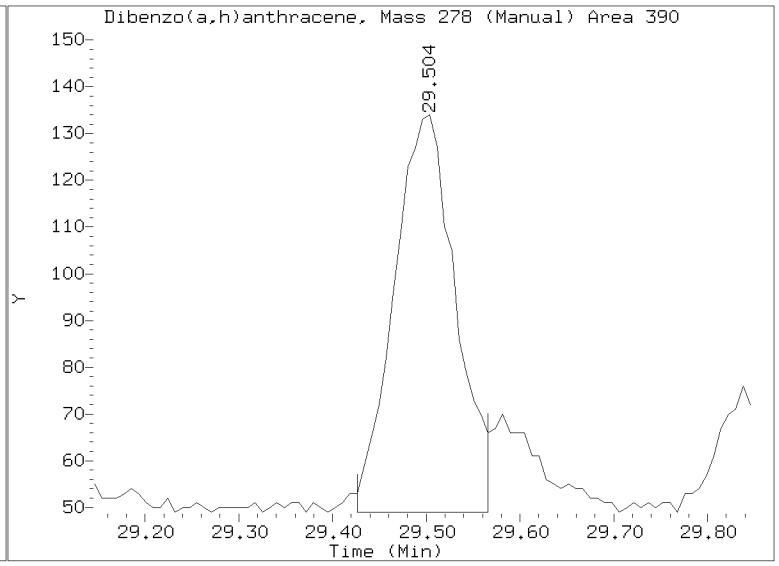




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052307S.D
Injection Date: 05-MAY-2023 14:40
Lab ID:BLD0329-BLK2 Client ID:
Report Date: 05/31/2023 14:30





LCS / LCS DUPLICATE RECOVERY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 15:18
Batch:	BLD0329	Laboratory ID:	BLD0329-BS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	298		59.6	36 - 120
1,2-Dichlorobenzene	500	305		60.9	36 - 120
Benzyl Alcohol	500	351		70.2	25 - 123
Benzoic acid	2300	519	Q	22.5	10 - 160
2,4-Dimethylphenol	1300	432		33.3	10 - 120
1,2,4-Trichlorobenzene	500	287		57.4	35 - 120
N-Nitrosodiphenylamine	500	307		61.3	27 - 120
Pentachlorophenol	1300	852	Q	65.5	26 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	320		64.0	7.19	30	36 - 120
1,2-Dichlorobenzene	500	329		65.8	7.61	30	36 - 120
Benzyl Alcohol	500	386		77.2	9.40	30	25 - 123
Benzoic acid	2300	943	*, Q	41.0	58.1 *	30	10 - 160
2,4-Dimethylphenol	1300	566		43.5	26.8	30	10 - 120
1,2,4-Trichlorobenzene	500	321		64.2	11.3	30	35 - 120
N-Nitrosodiphenylamine	500	357		71.4	15.2	30	27 - 120
Pentachlorophenol	1300	1040	Q	80.1	20.1	30	26 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523085.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

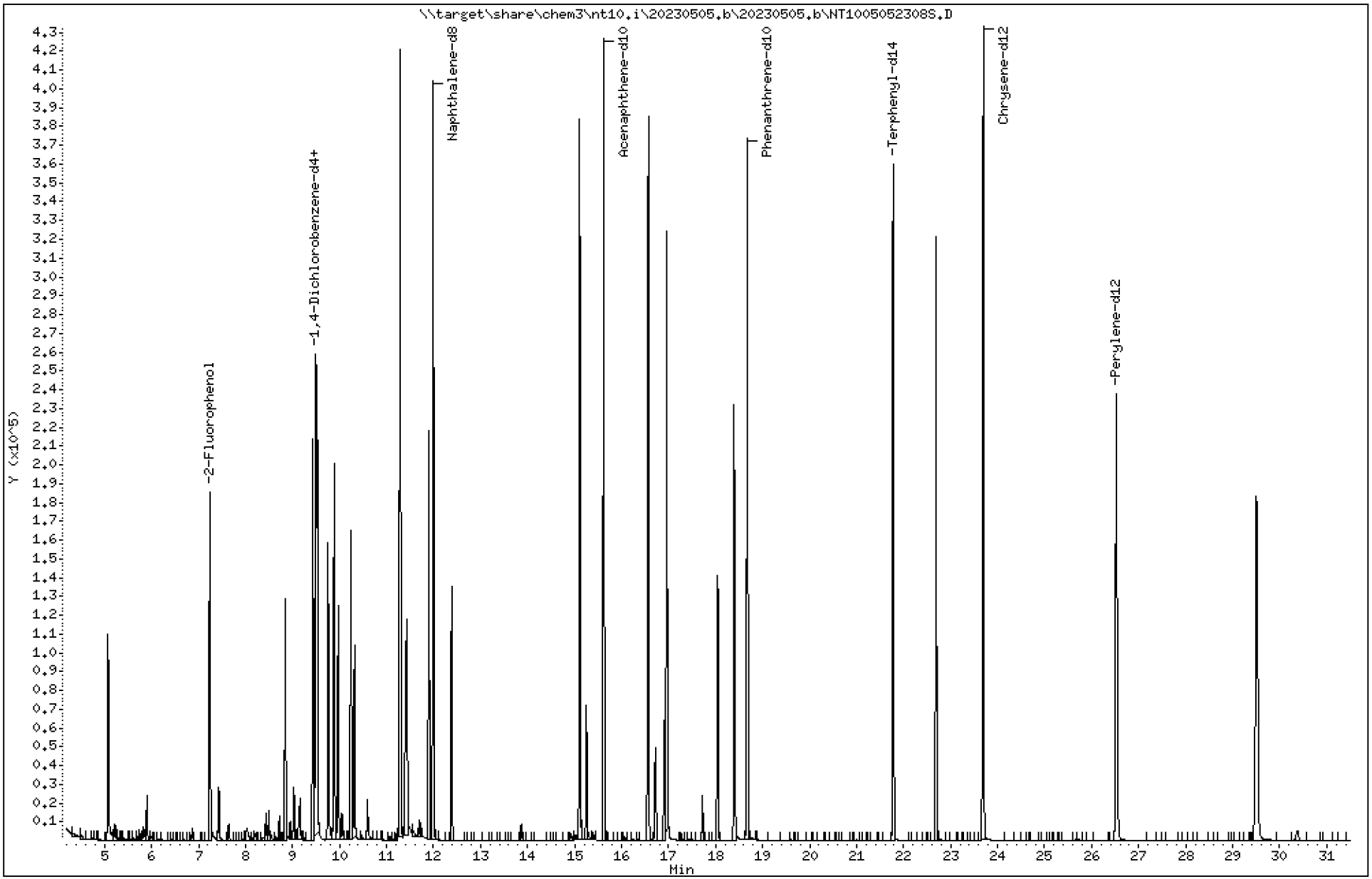
Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1560 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

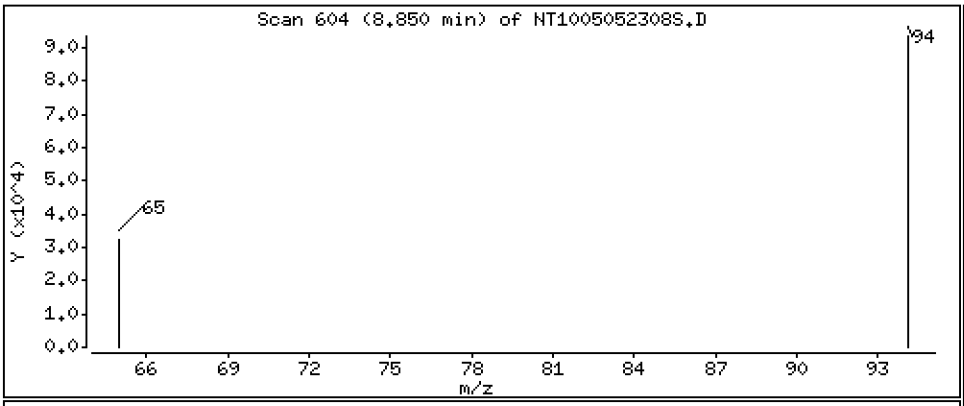
Operator: DSD

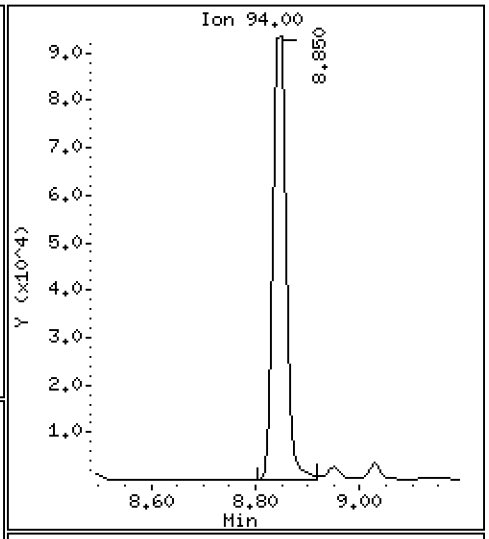
Column phase: ZB-5msi

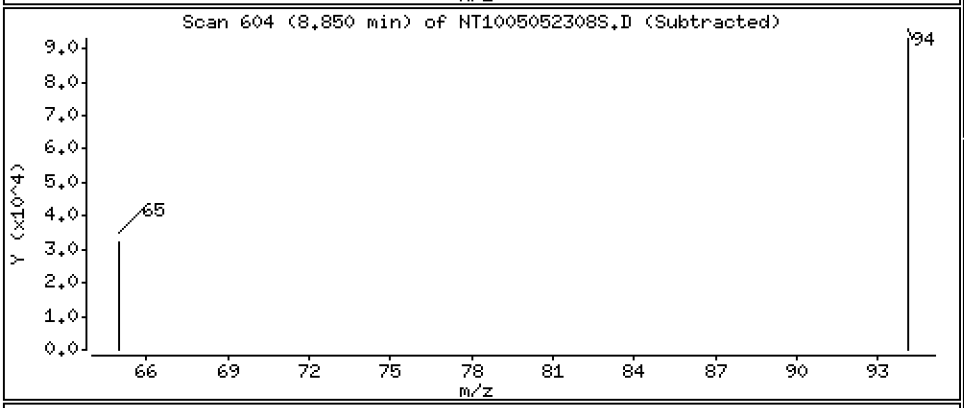
Column diameter: 0.25

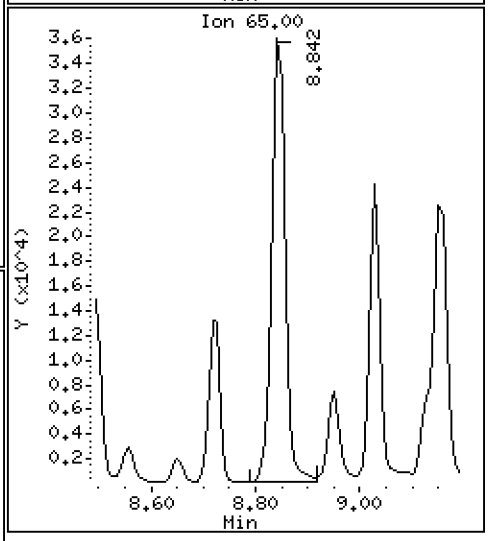
3 Phenol

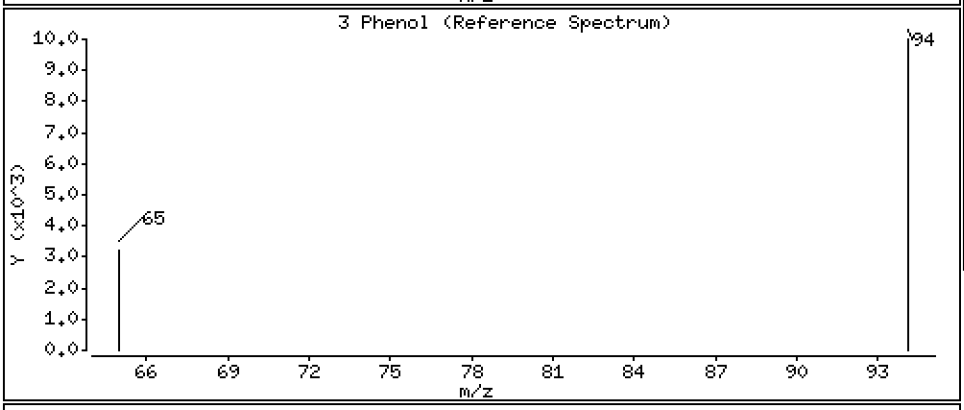
Concentration: 2.478 ug/L

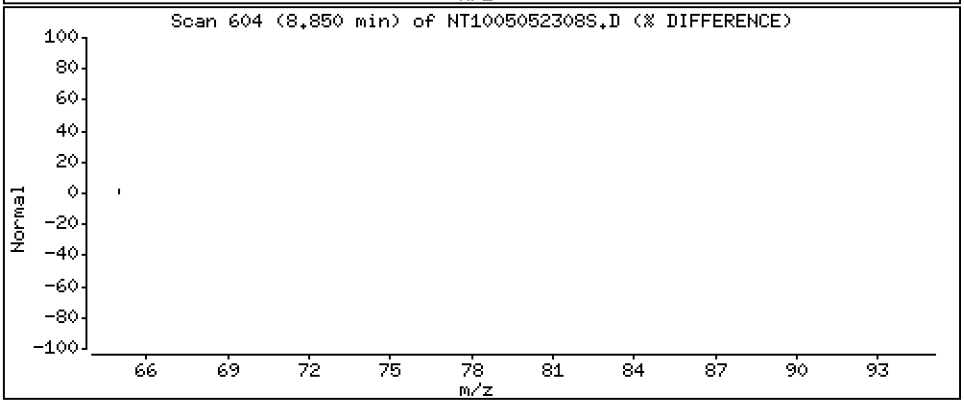












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

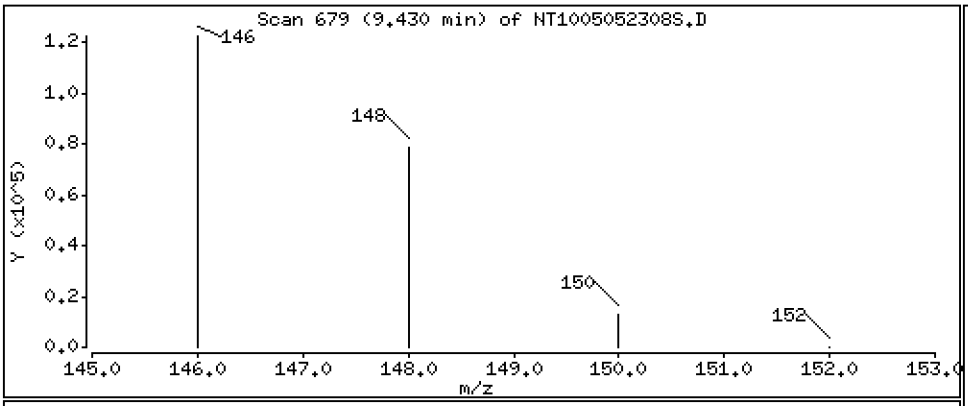
Operator: DSD

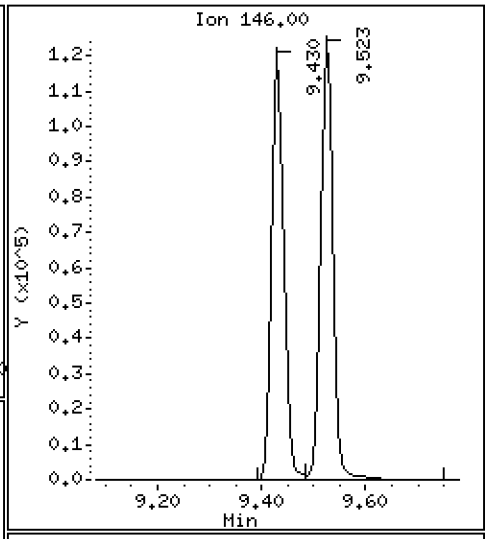
Column phase: ZB-5msi

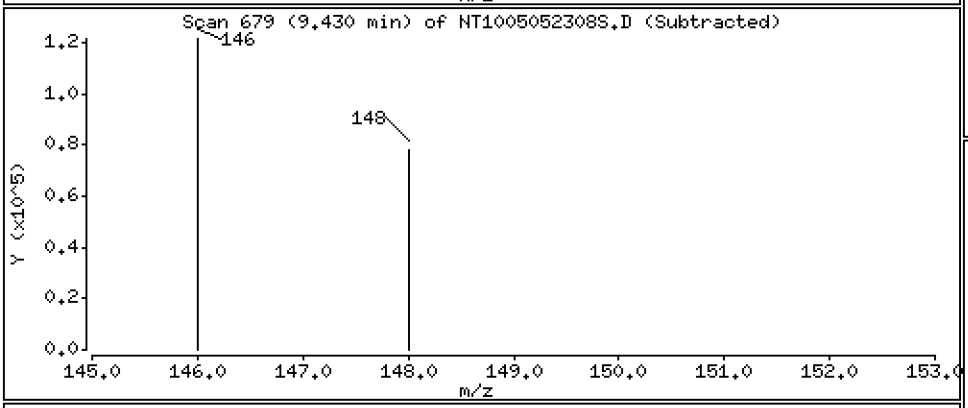
Column diameter: 0.25

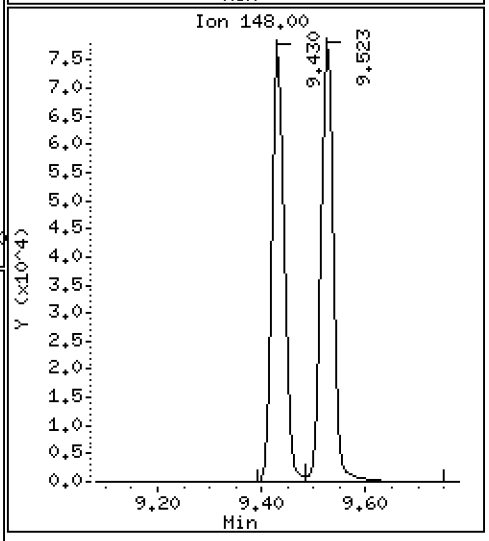
7 1,3-Dichlorobenzene

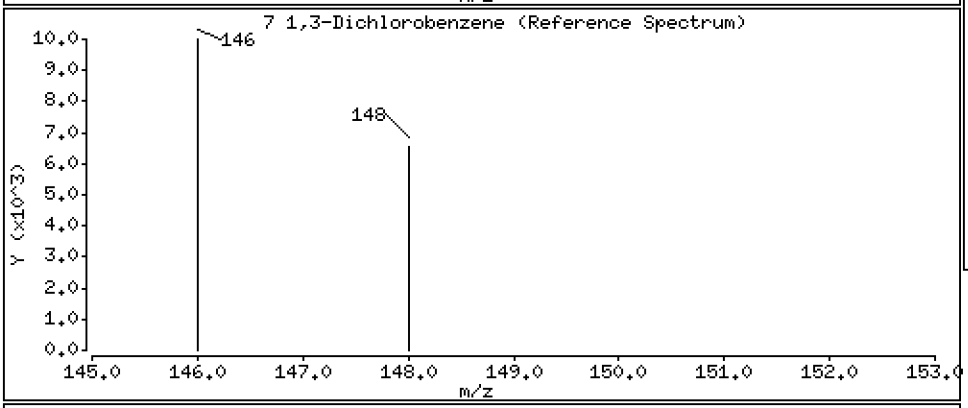
Concentration: 2.924 ug/L

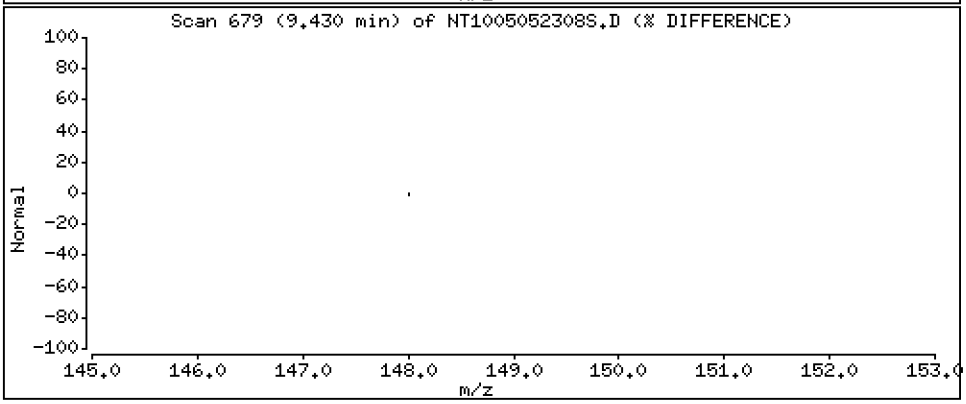












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

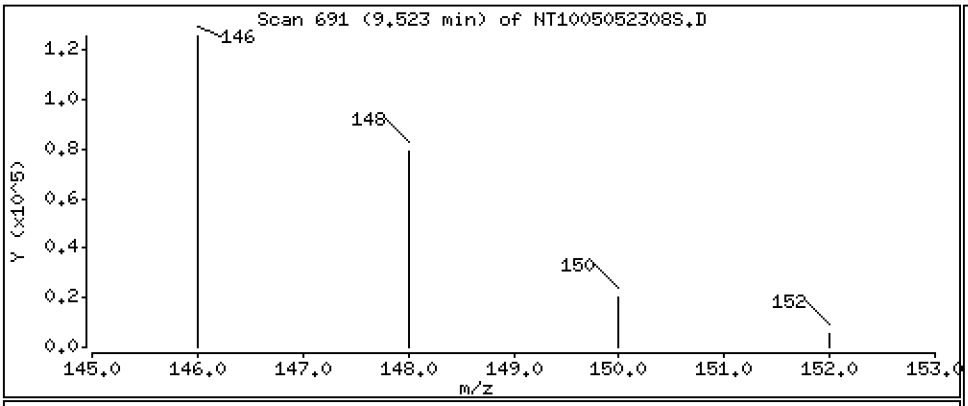
Operator: DSD

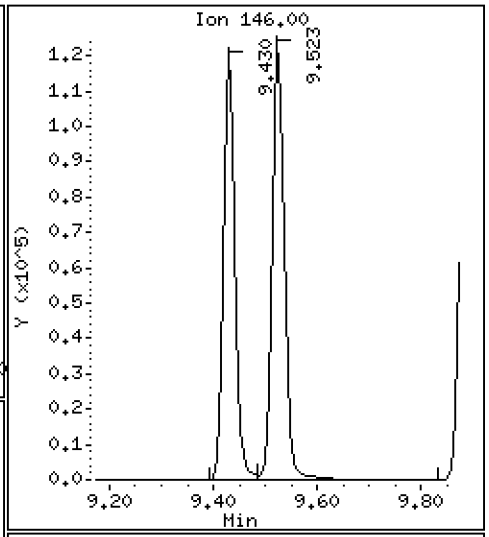
Column phase: ZB-5msi

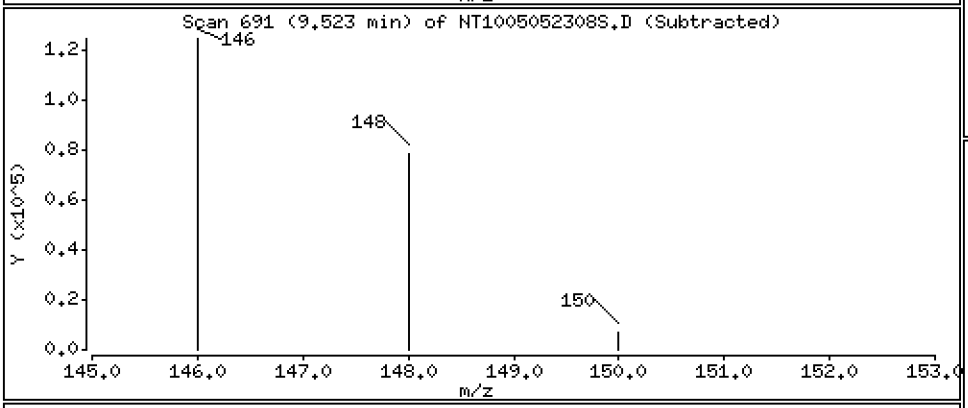
Column diameter: 0.25

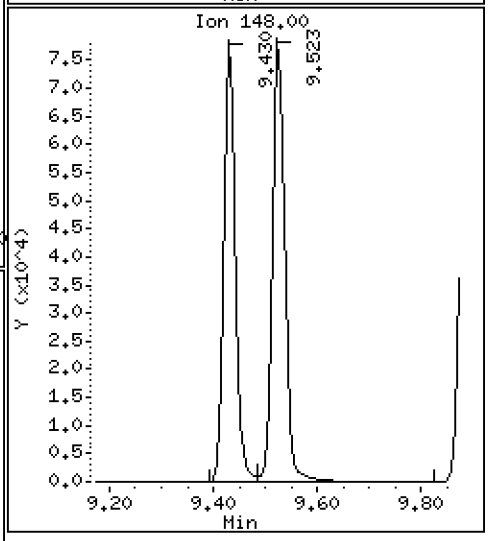
9 1,4-Dichlorobenzene

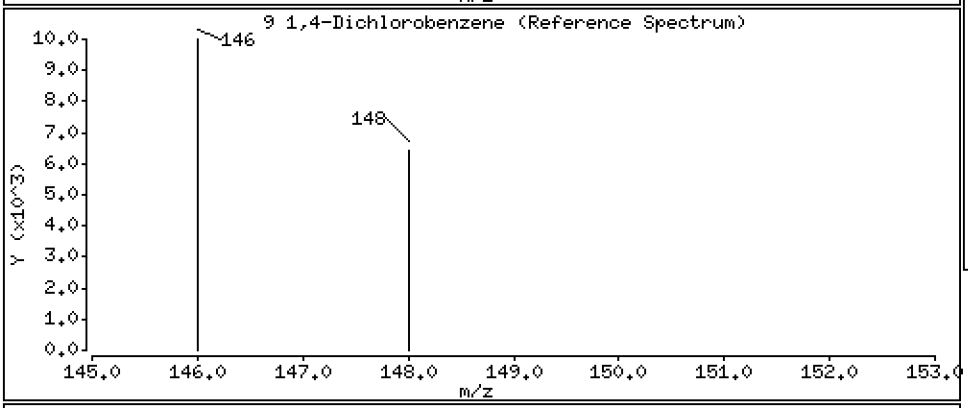
Concentration: 2.979 ug/L

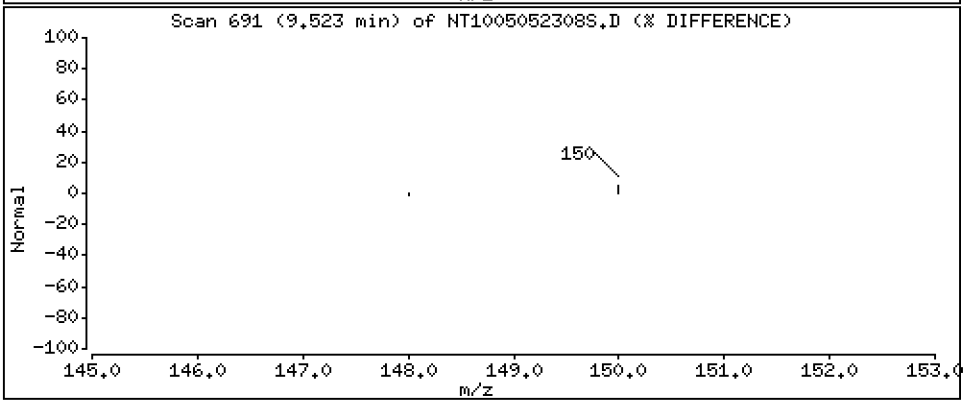












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

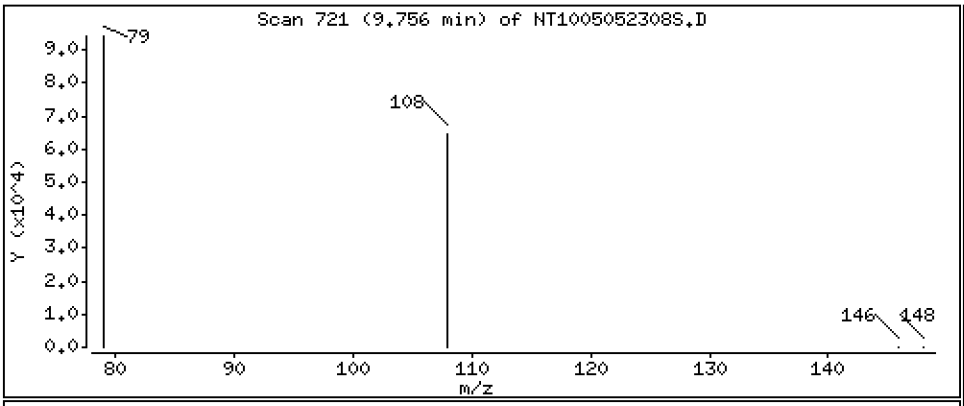
Operator: DSD

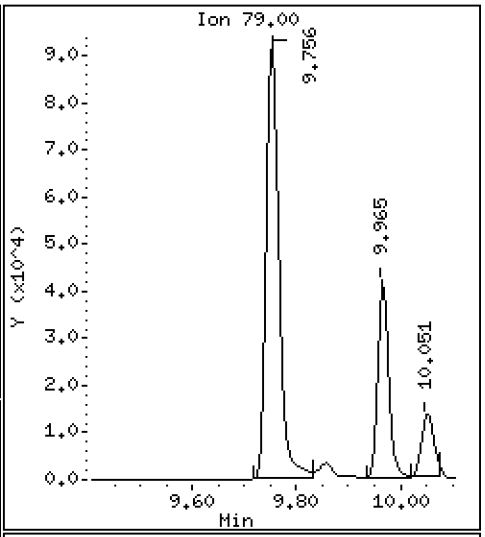
Column phase: ZB-5msi

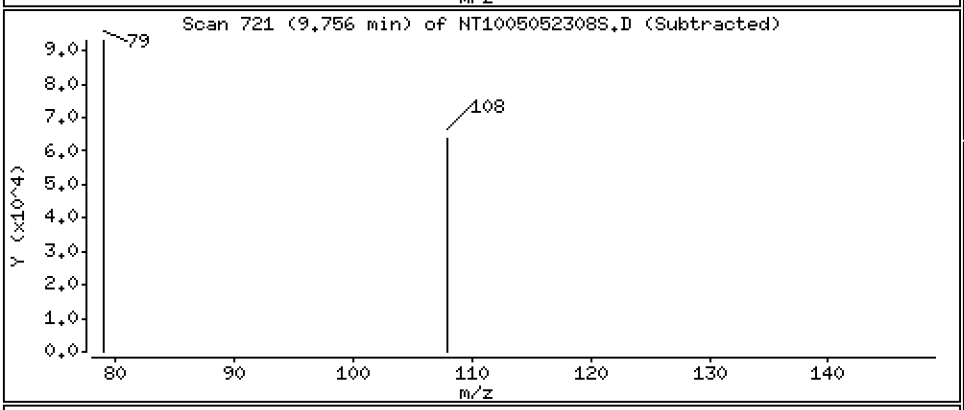
Column diameter: 0.25

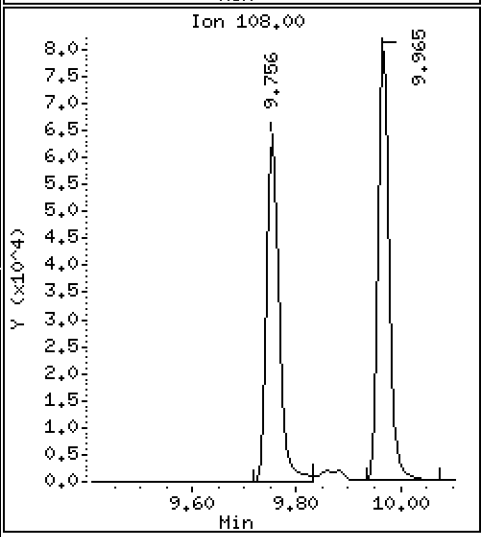
11 Benzyl alcohol

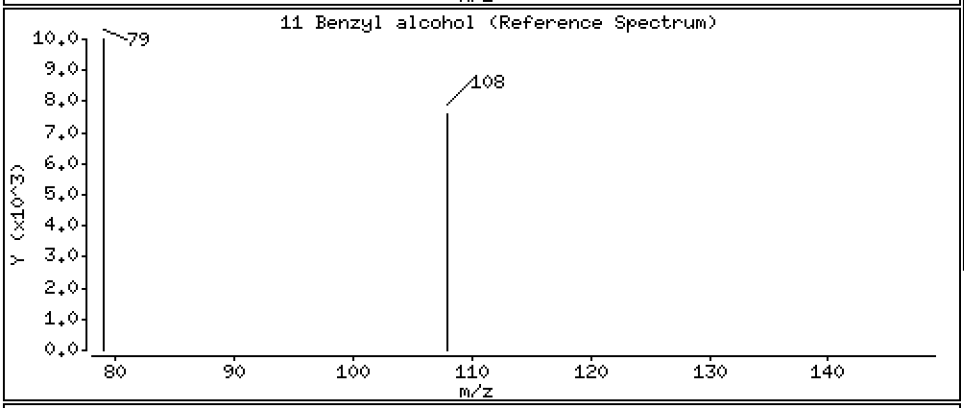
Concentration: 3.512 ug/L

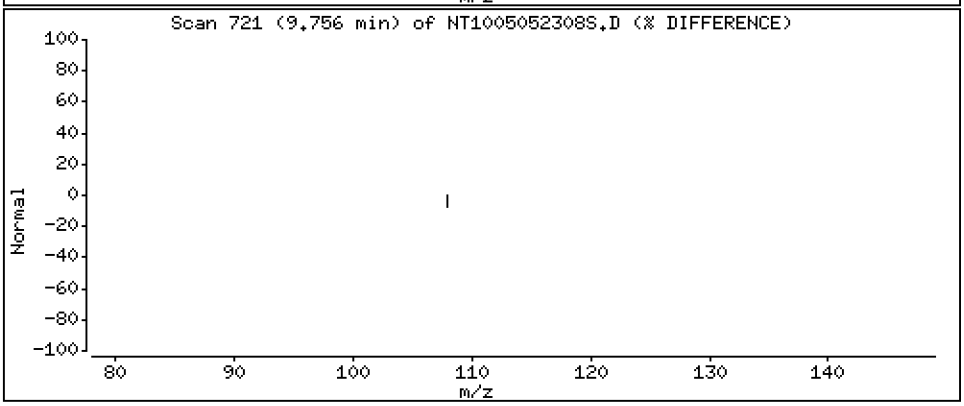












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

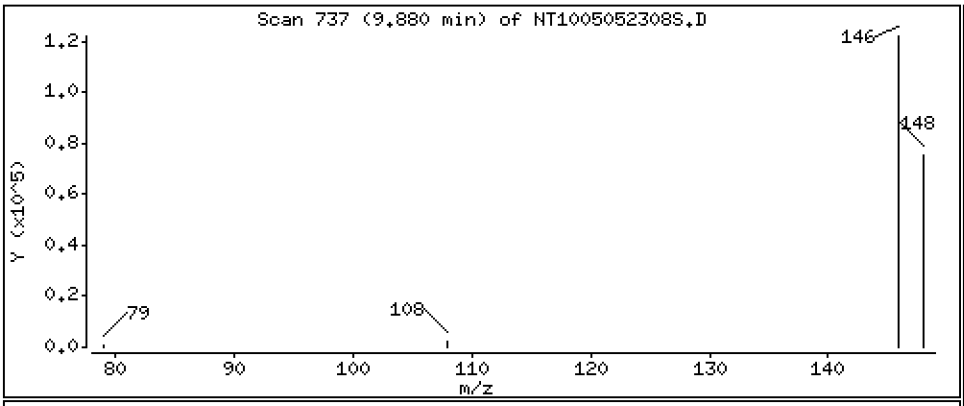
Operator: DSD

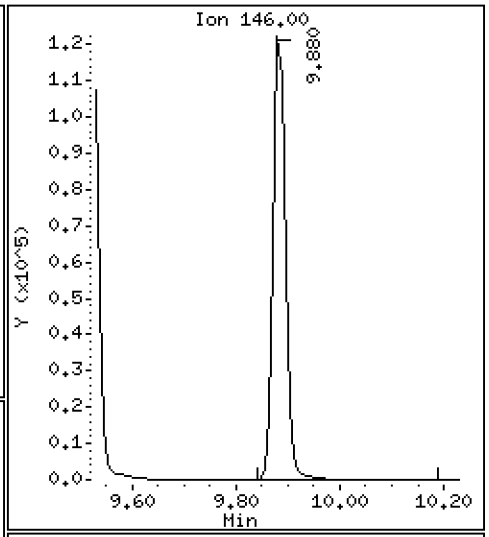
Column phase: ZB-5msi

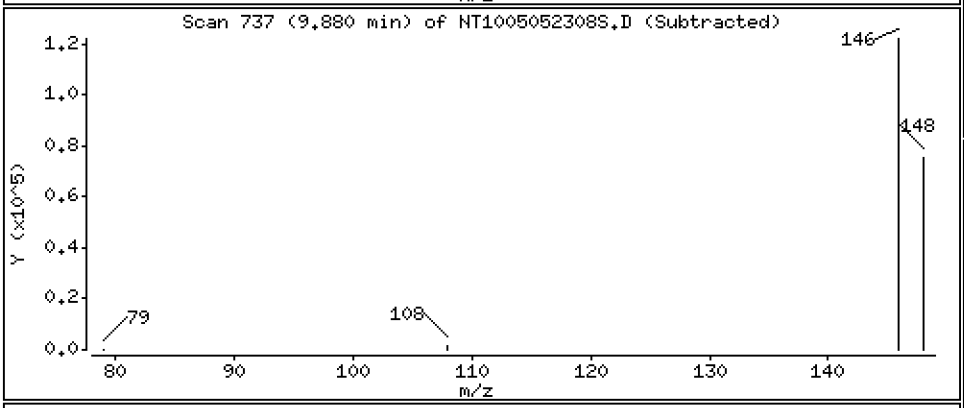
Column diameter: 0.25

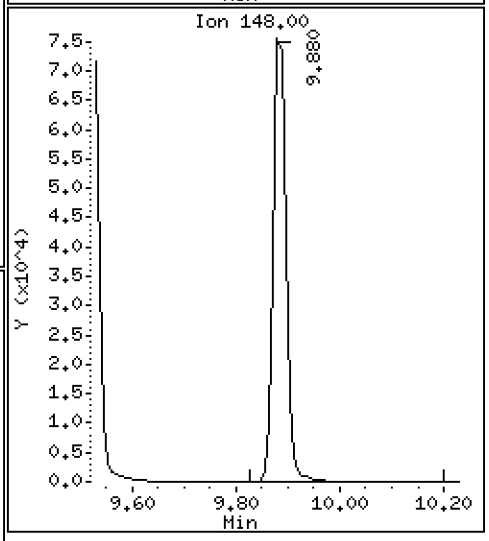
12 1,2-Dichlorobenzene

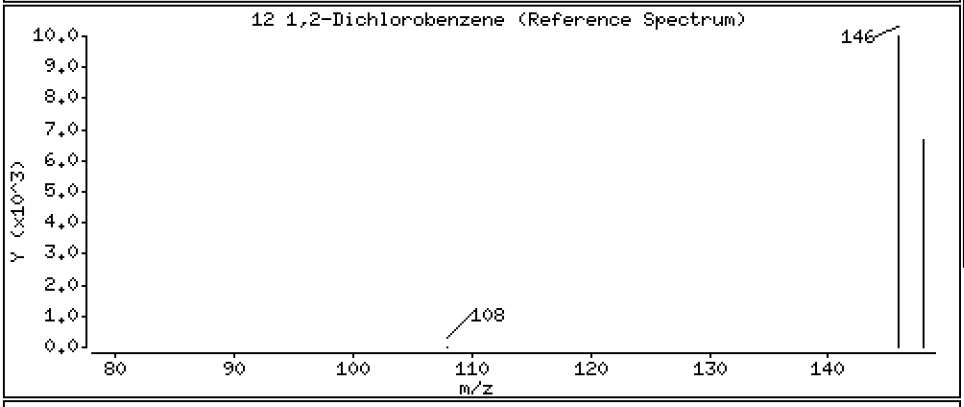
Concentration: 3.046 ug/L

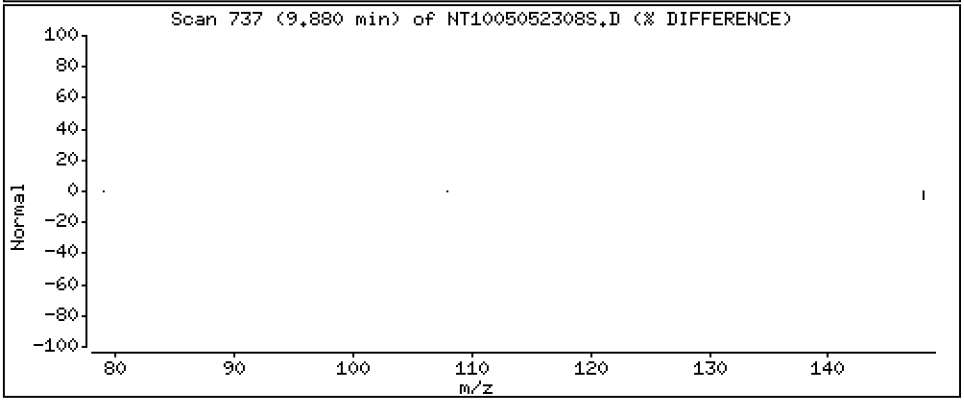












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

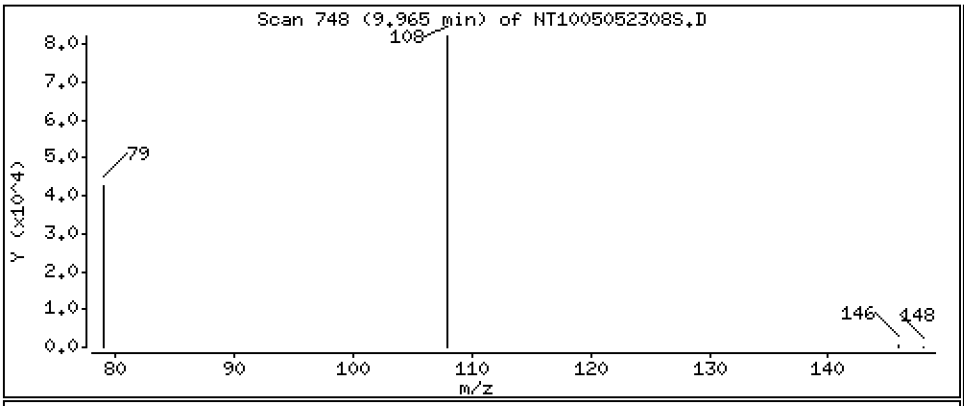
Operator: DSD

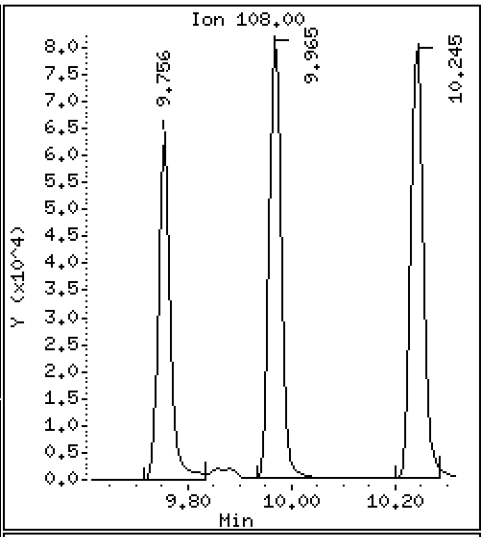
Column phase: ZB-5msi

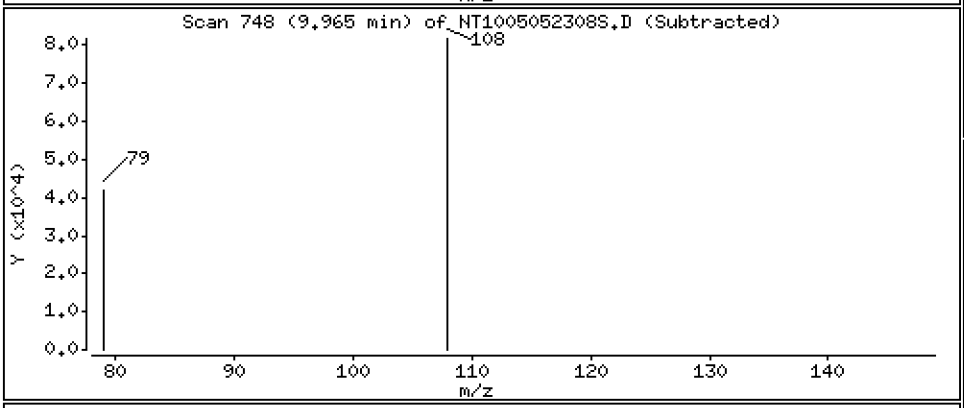
Column diameter: 0.25

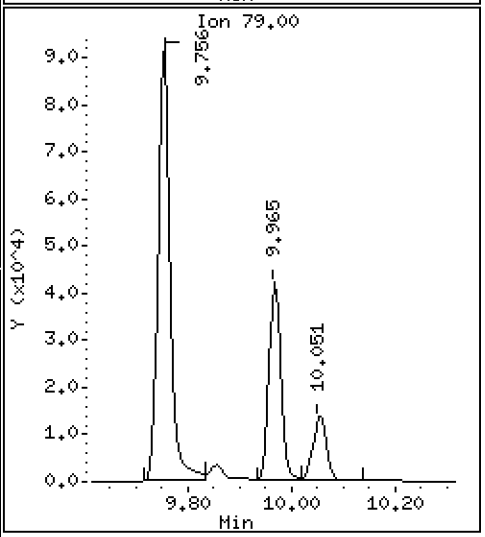
13 2-Methylphenol

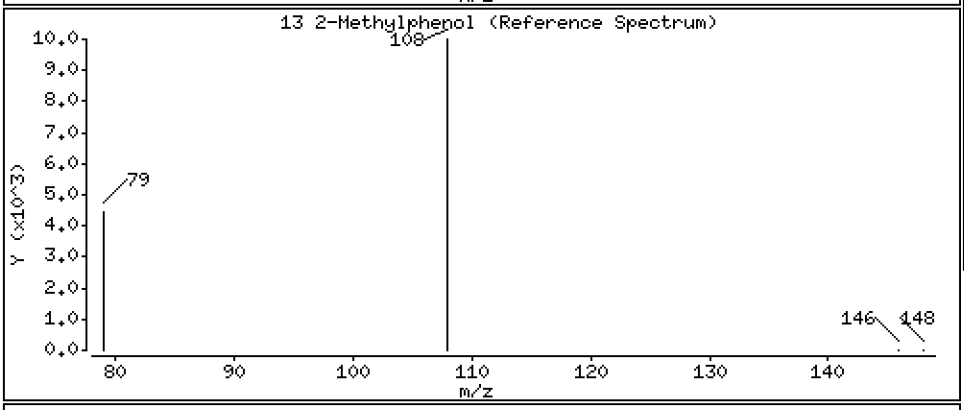
Concentration: 2.699 ug/L

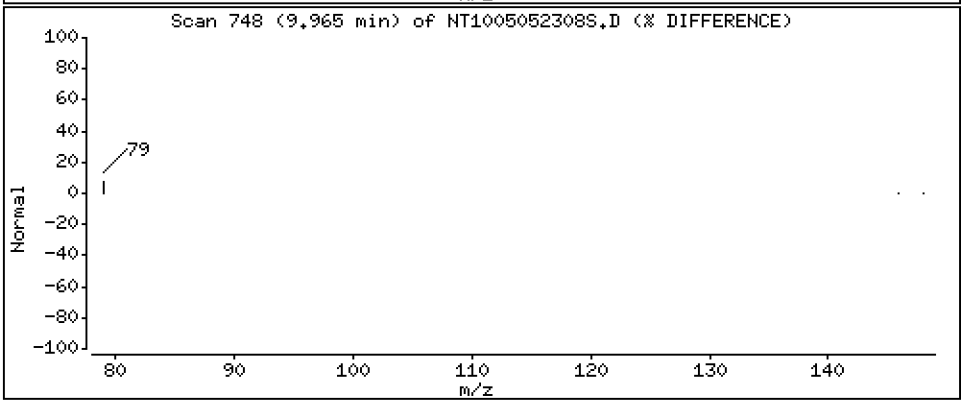












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

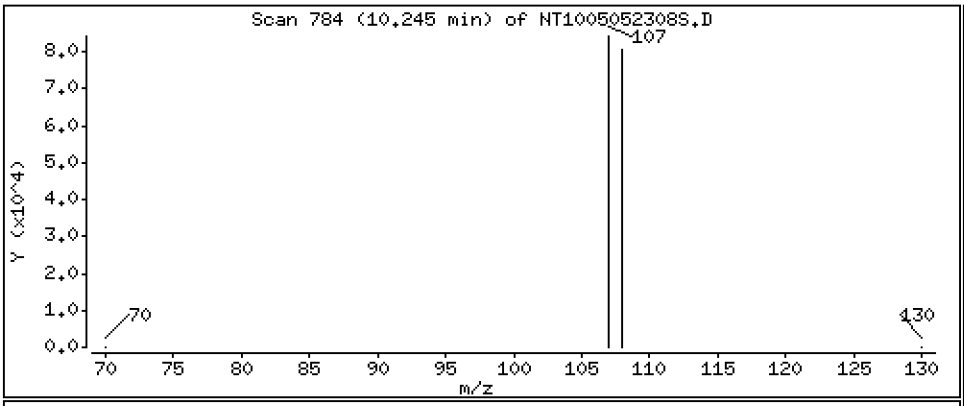
Operator: DSD

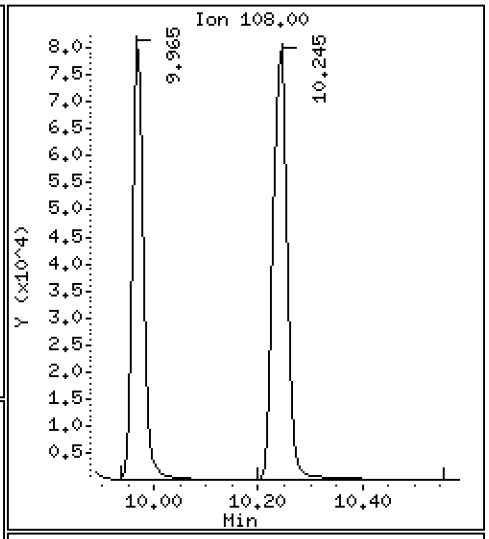
Column phase: ZB-5msi

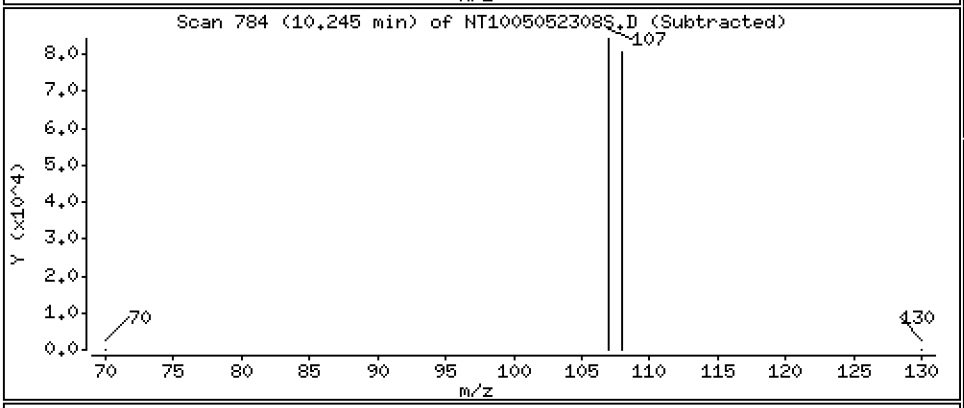
Column diameter: 0.25

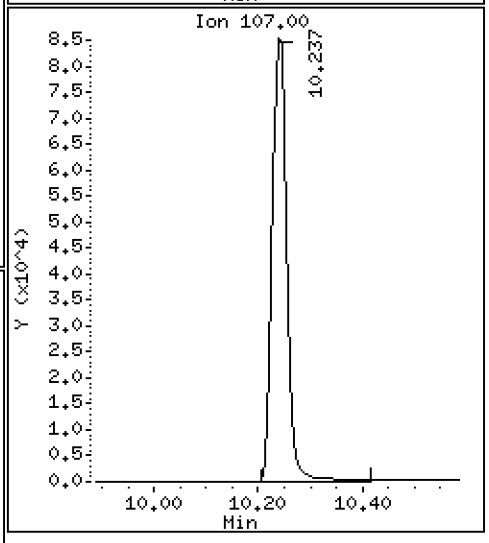
15 4-Methylphenol

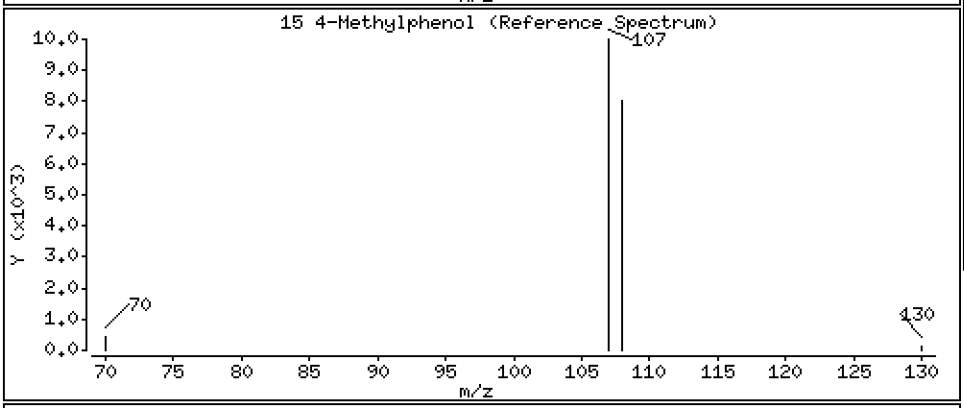
Concentration: 2.991 ug/L

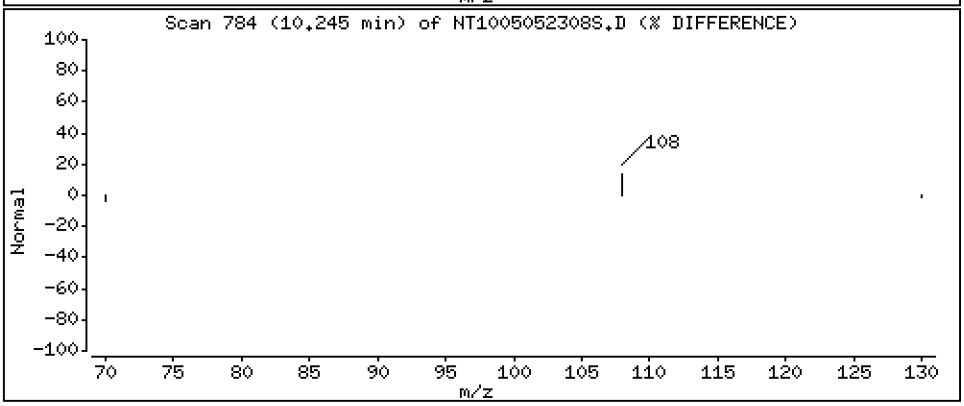












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

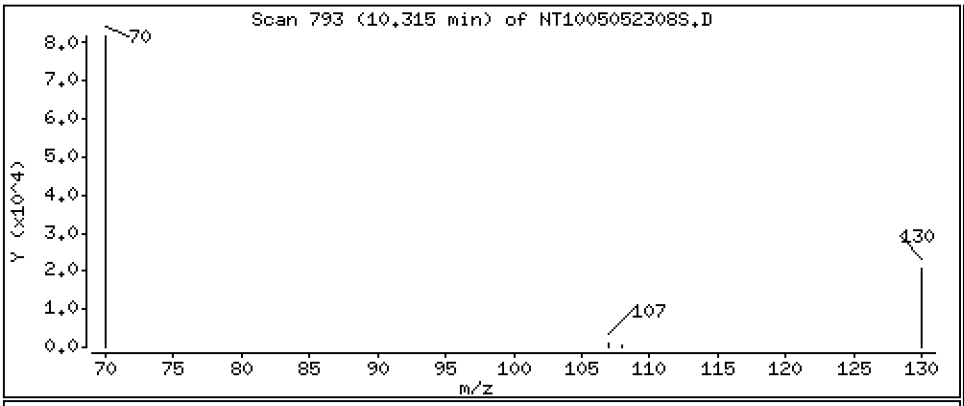
Operator: DSD

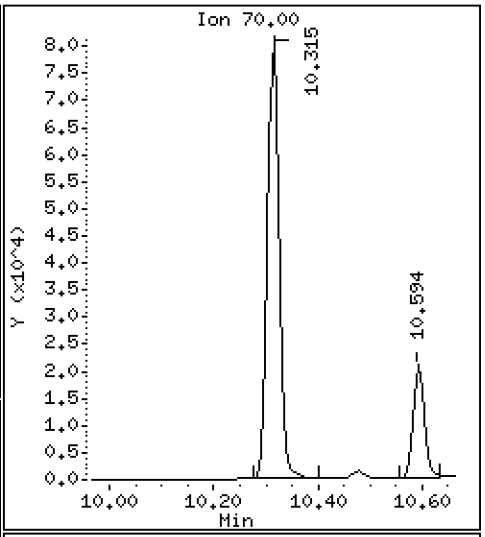
Column phase: ZB-5msi

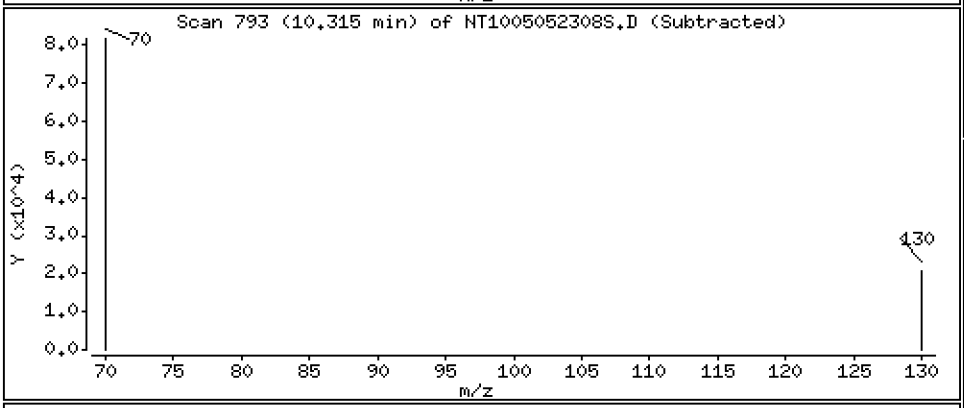
Column diameter: 0.25

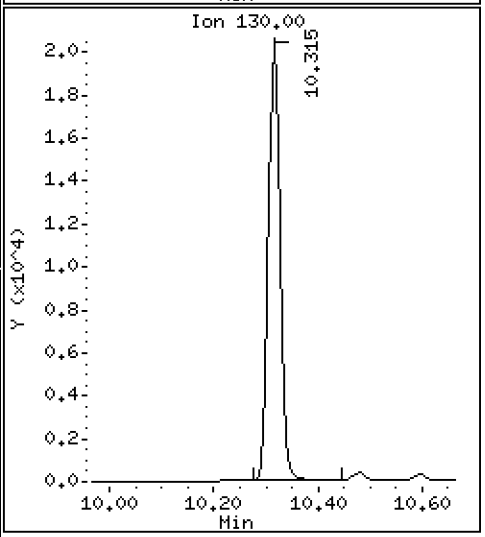
16 N-Nitroso-di-n-propylamine

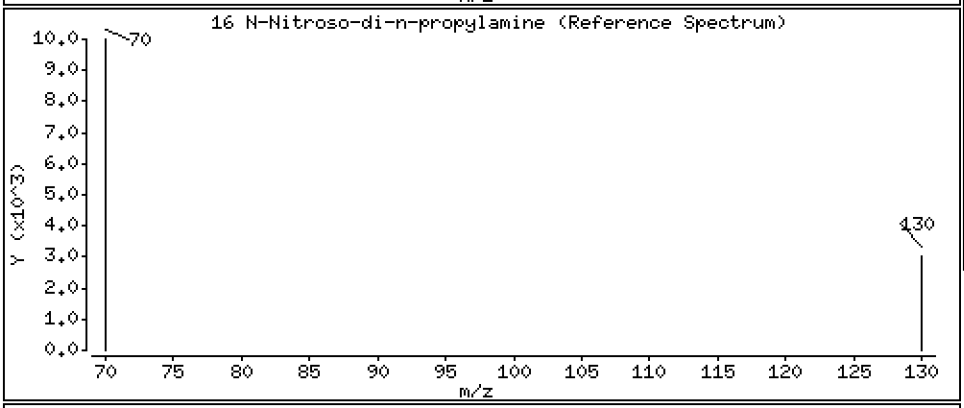
Concentration: 3.361 ug/L

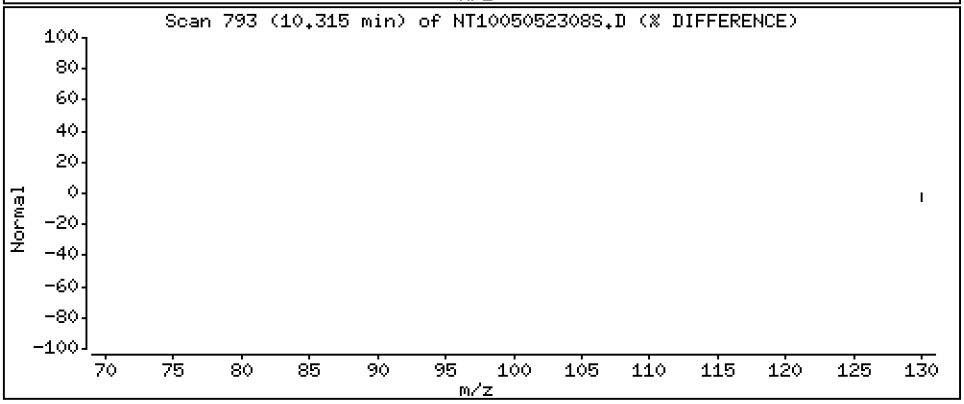












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523085.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

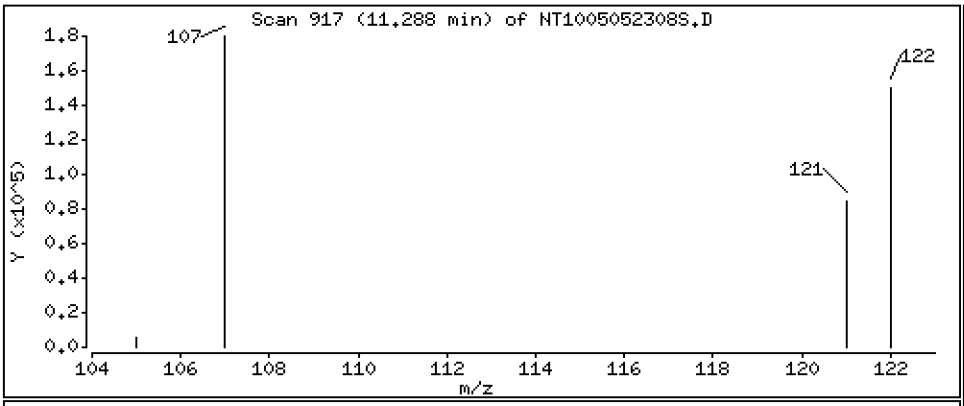
Operator: DSD

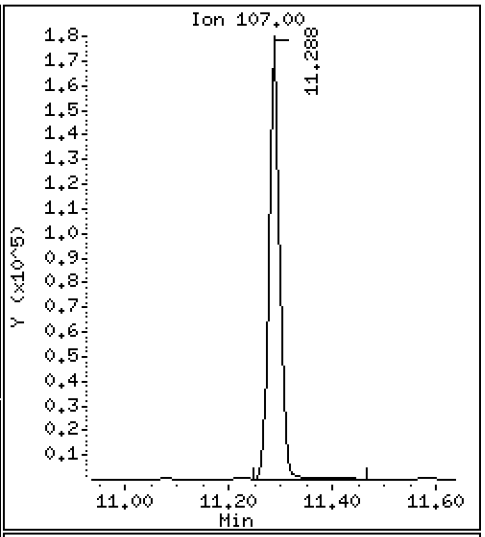
Column phase: ZB-5msi

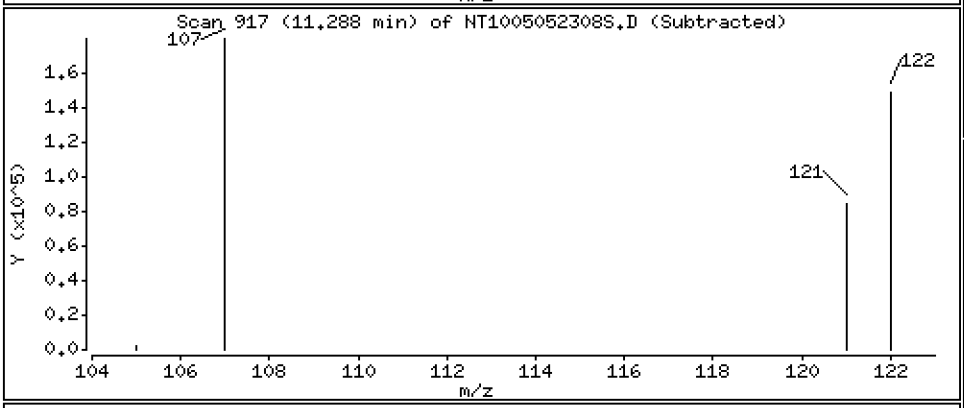
Column diameter: 0.25

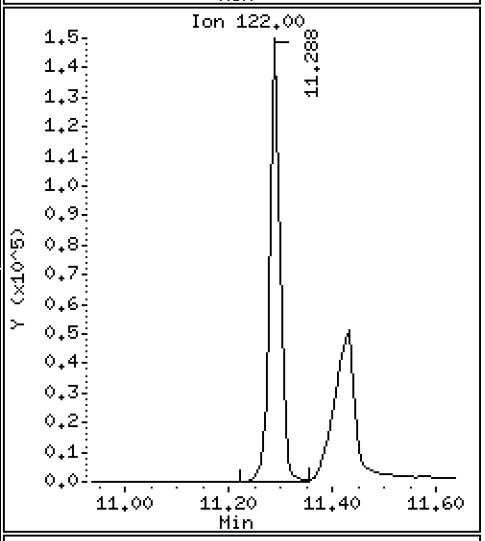
22 2,4-Dimethylphenol

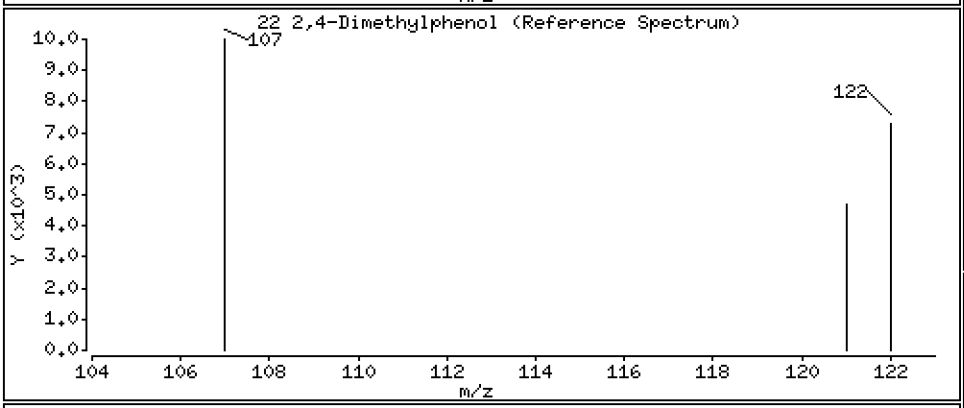
Concentration: 4.324 ug/L

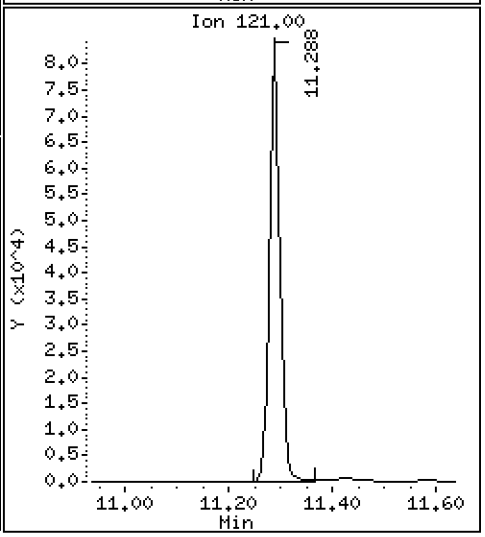


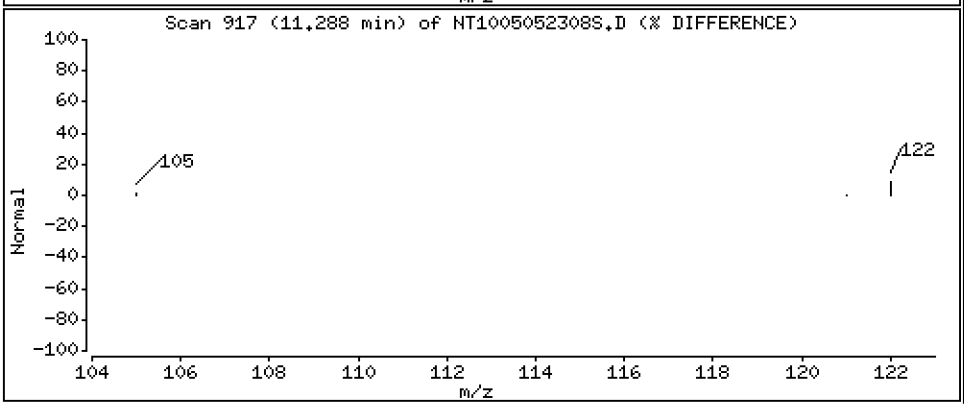












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

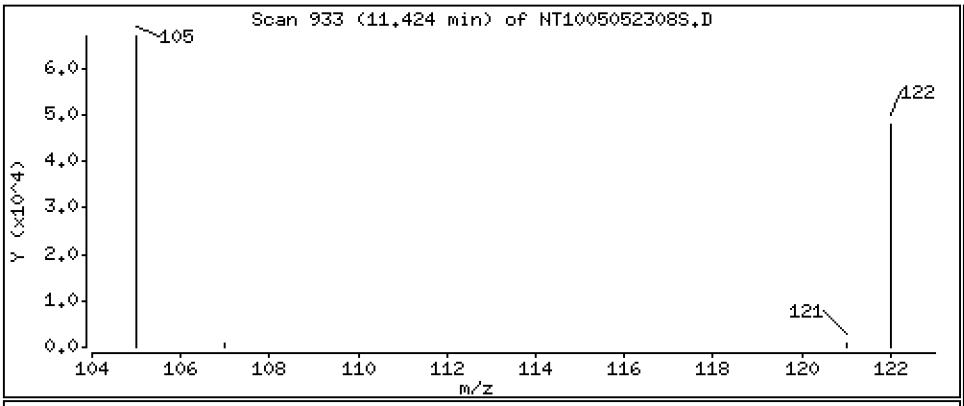
Operator: DSD

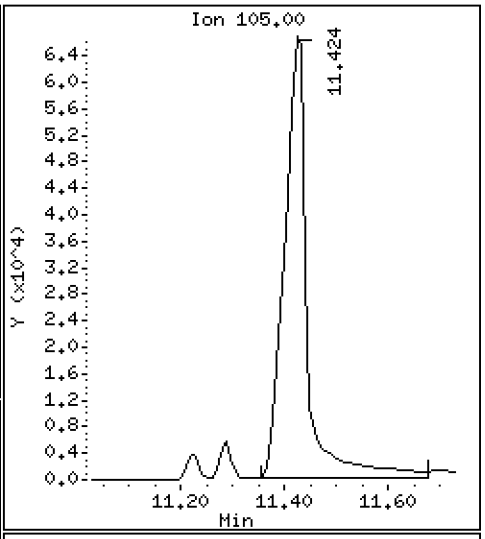
Column phase: ZB-5msi

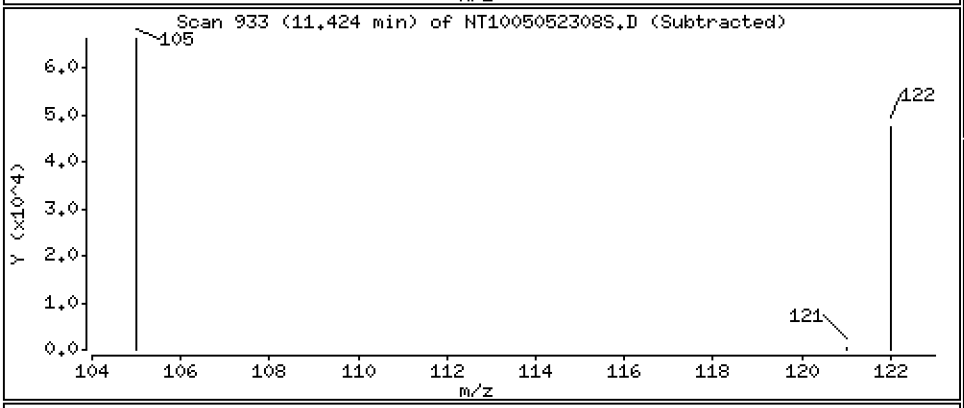
Column diameter: 0.25

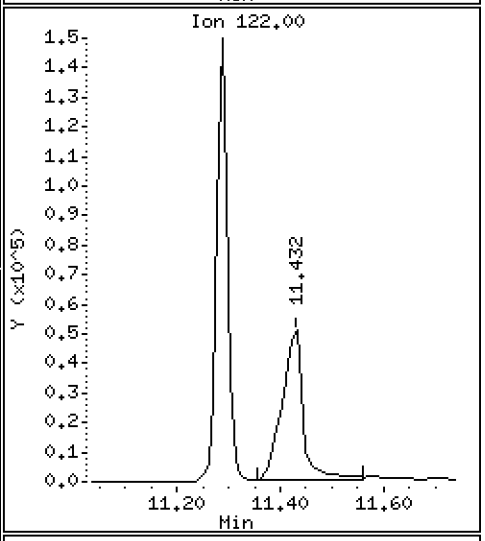
24 Benzoic acid

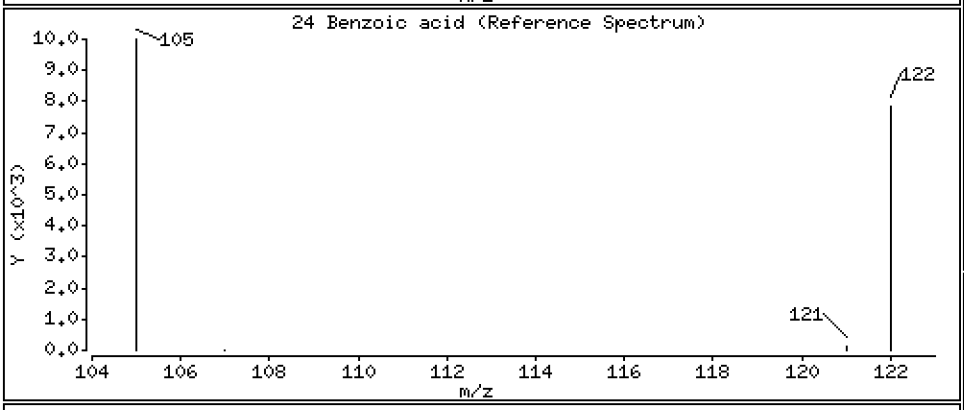
Concentration: 5.186 ug/L

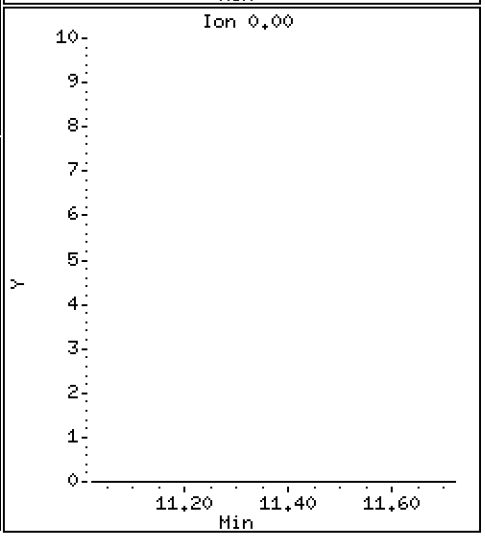


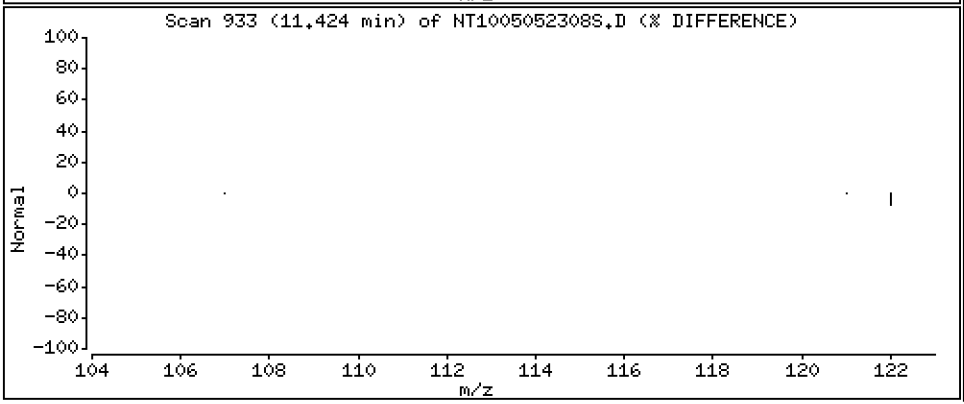












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

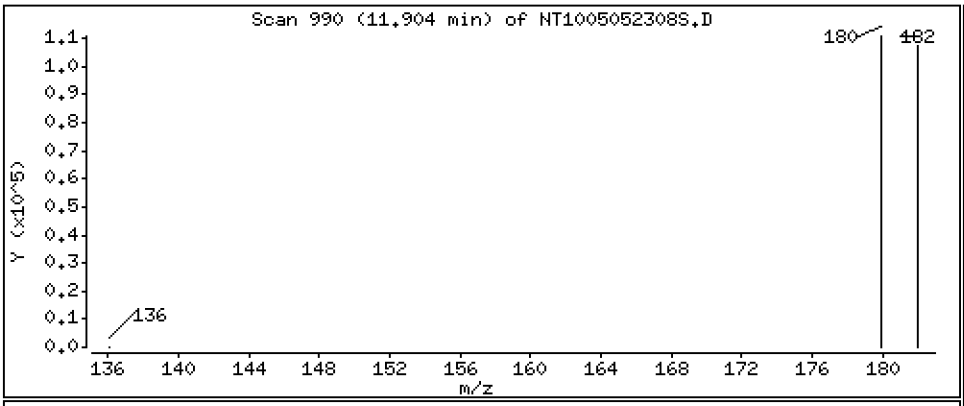
Operator: DSD

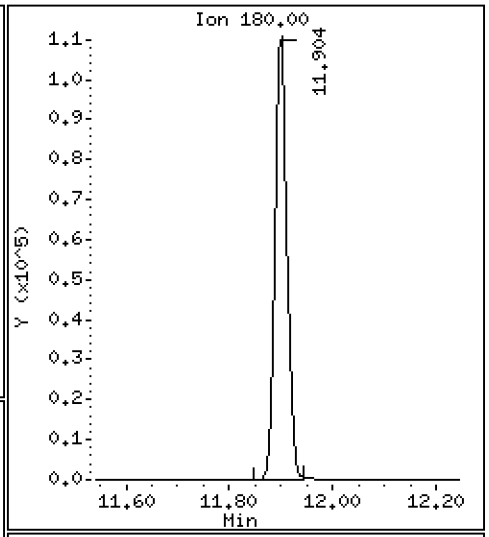
Column phase: ZB-5msi

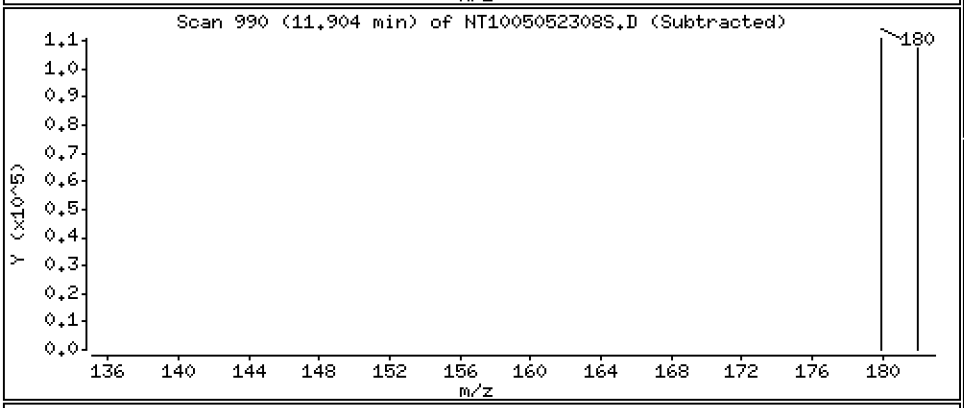
Column diameter: 0.25

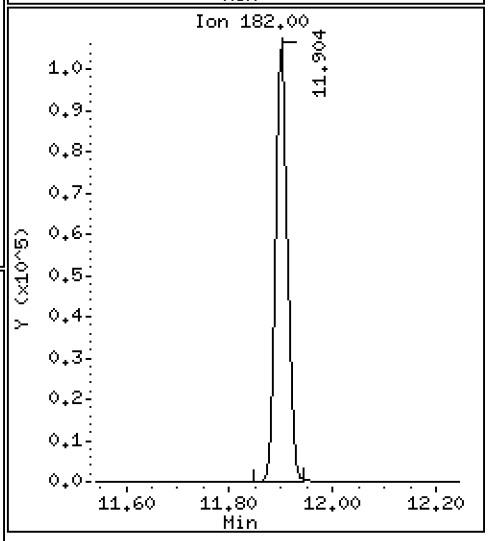
26 1,2,4-Trichlorobenzene

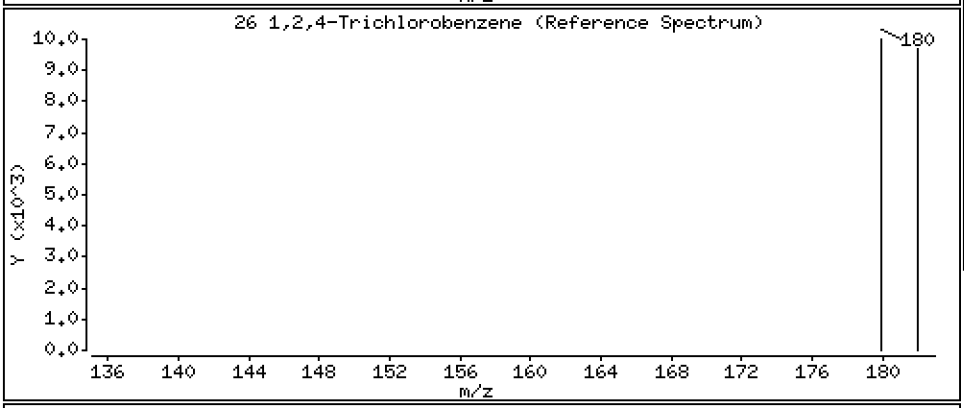
Concentration: 2.869 ug/L

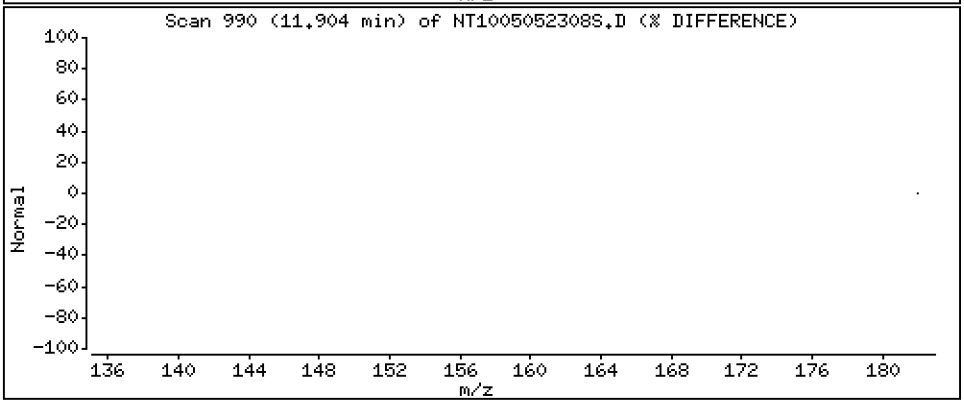












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

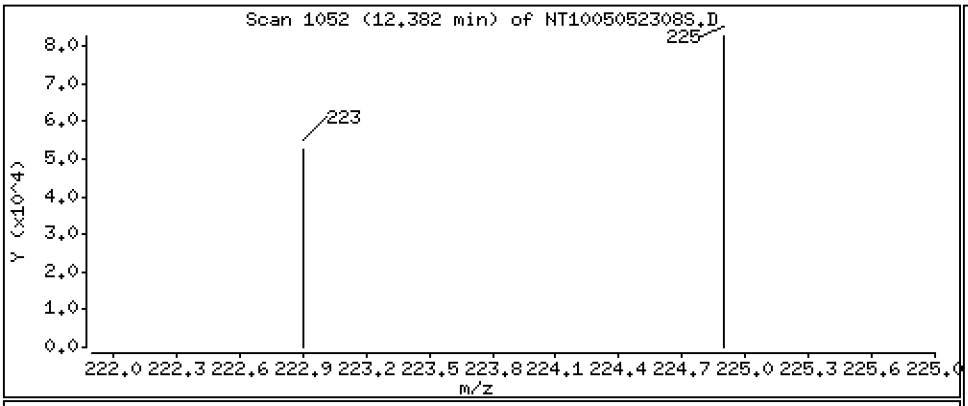
Operator: DSD

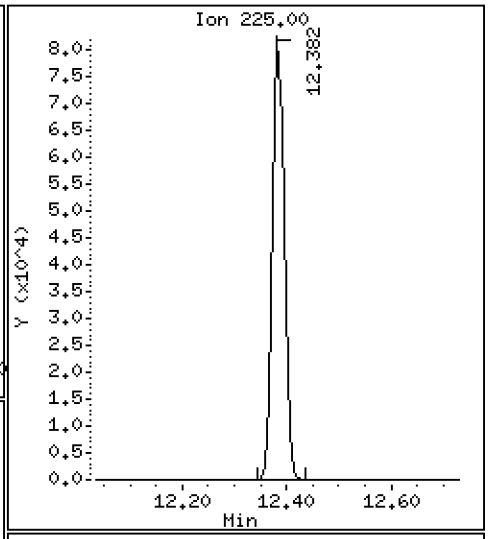
Column phase: ZB-5msi

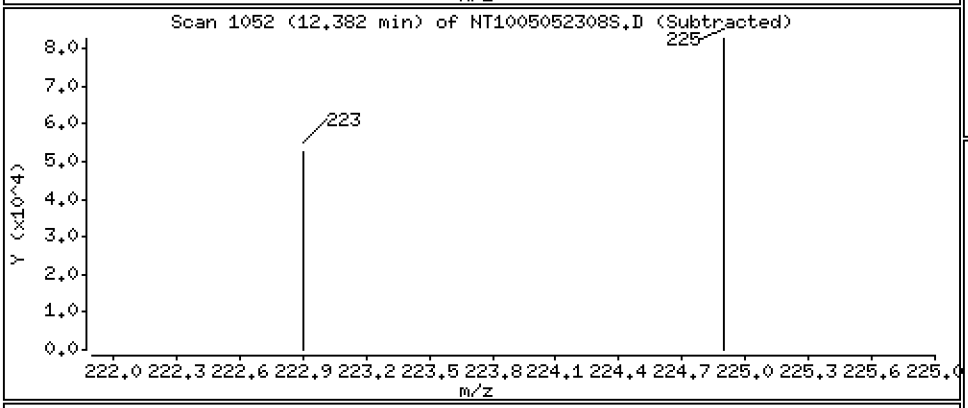
Column diameter: 0.25

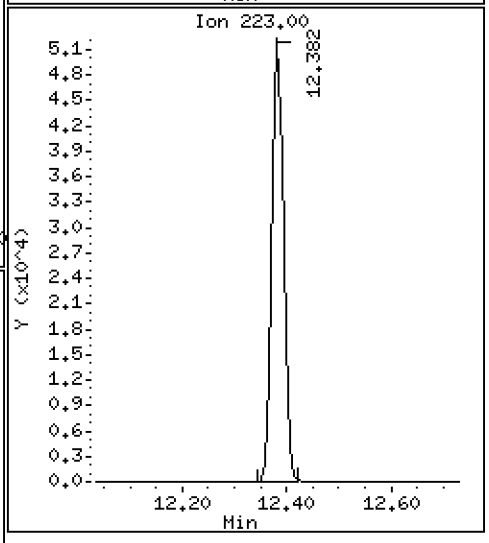
30 Hexachlorobutadiene

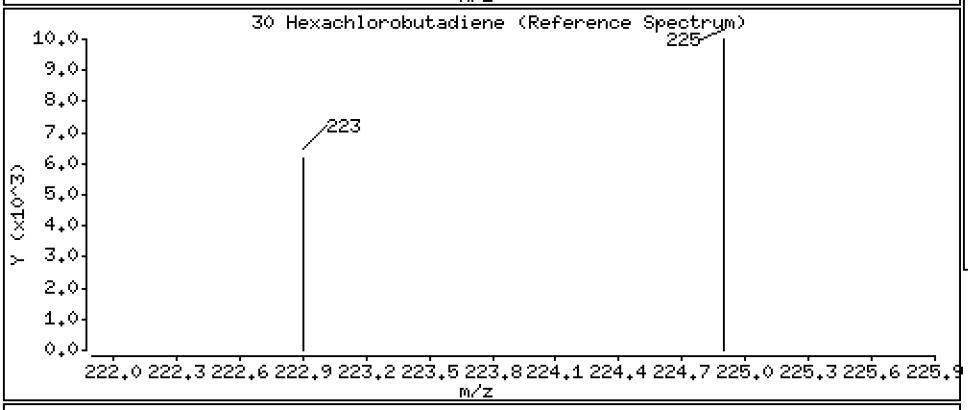
Concentration: 3.050 ug/L

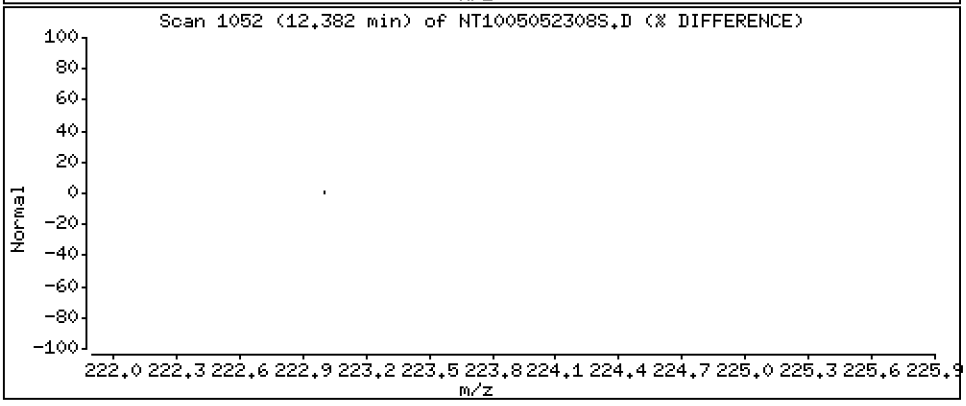












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

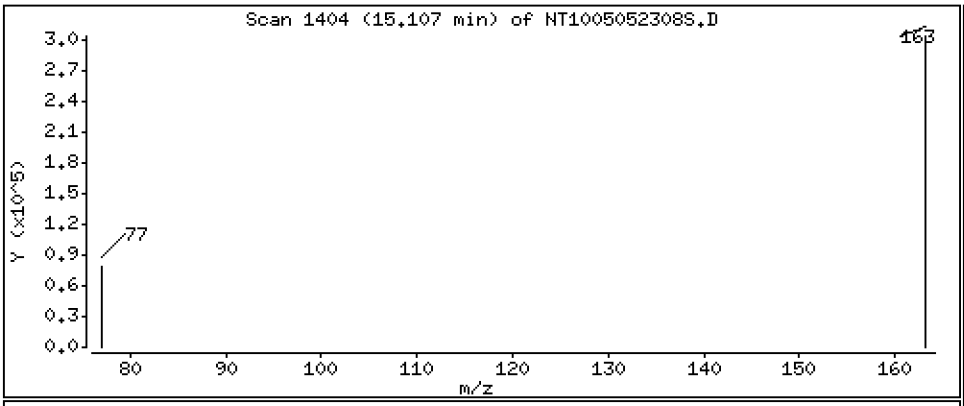
Operator: DSD

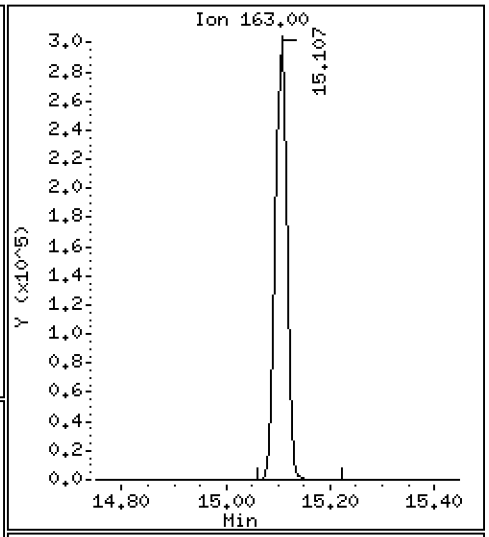
Column phase: ZB-5msi

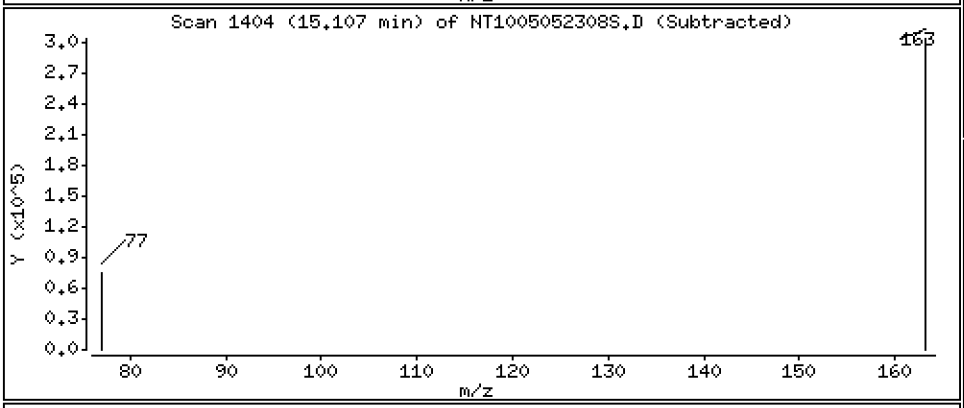
Column diameter: 0.25

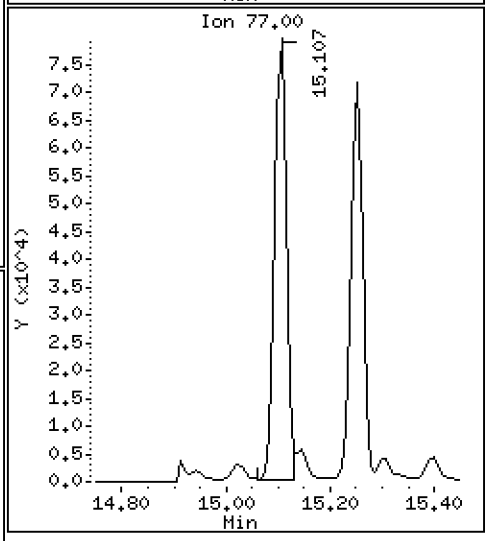
39 Dimethylphthalate

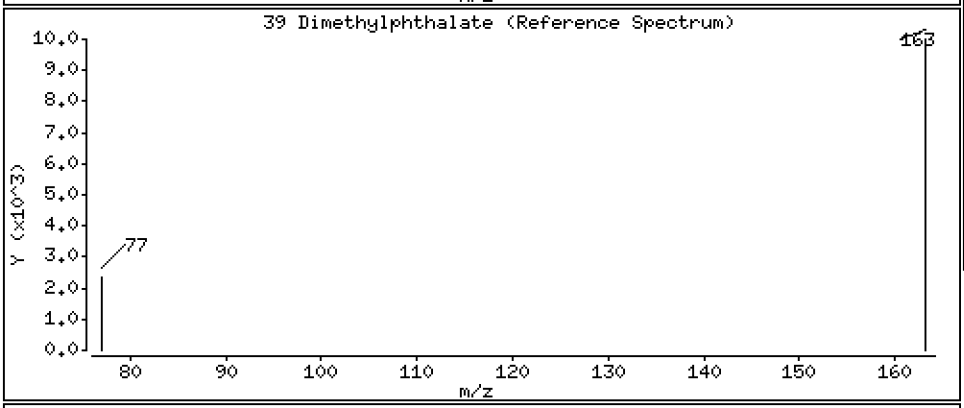
Concentration: 3.624 ug/L

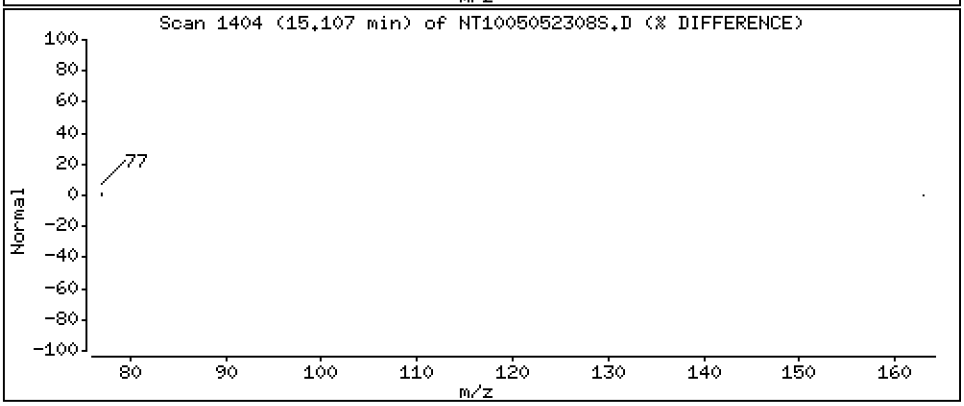












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

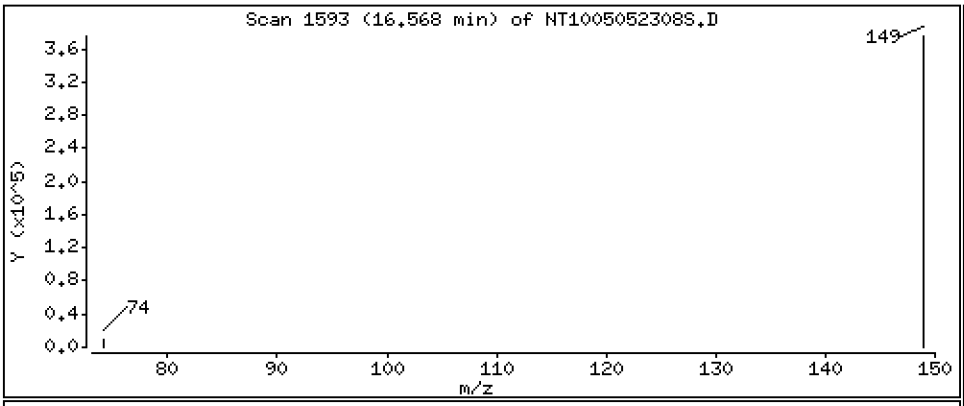
Operator: DSD

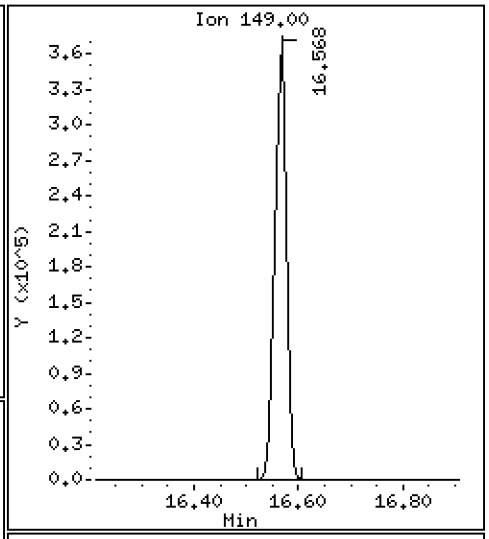
Column phase: ZB-5msi

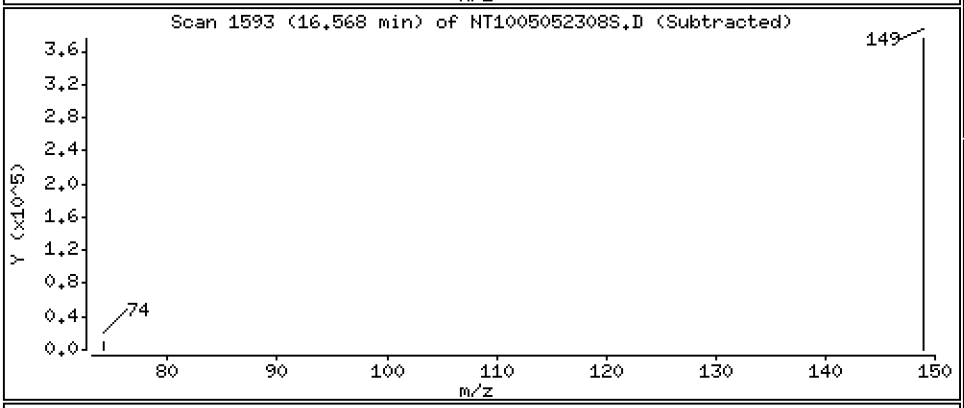
Column diameter: 0.25

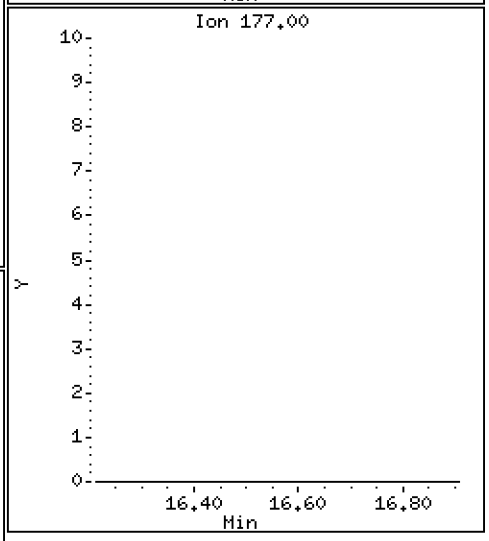
50 Diethylphthalate

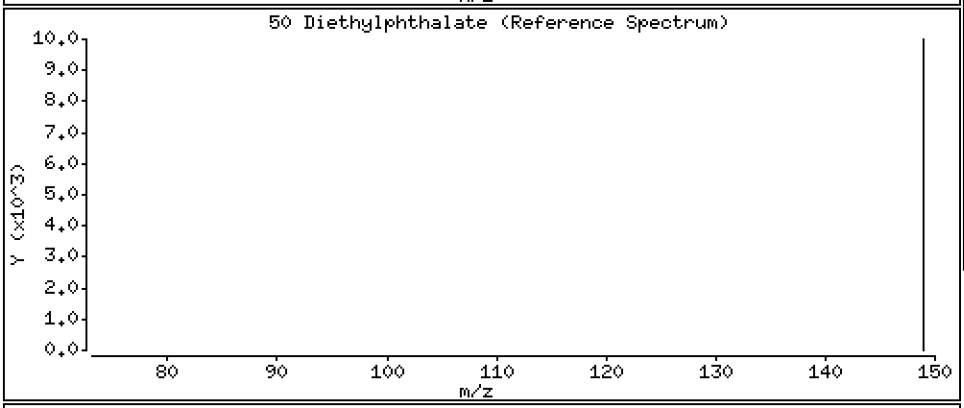
Concentration: 4.239 ug/L

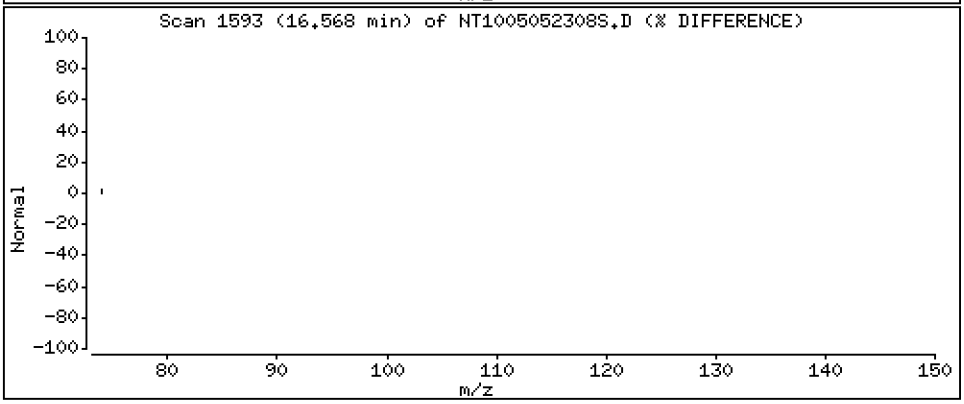












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

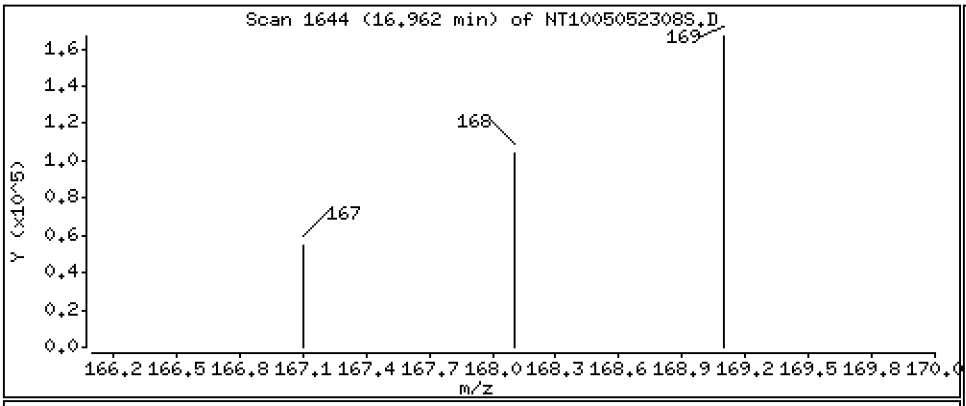
Operator: DSD

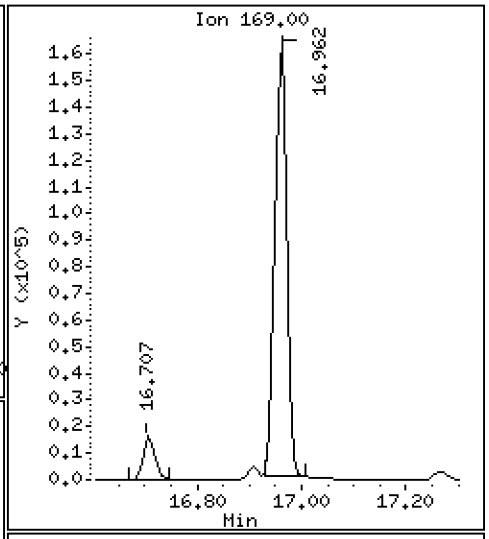
Column phase: ZB-5msi

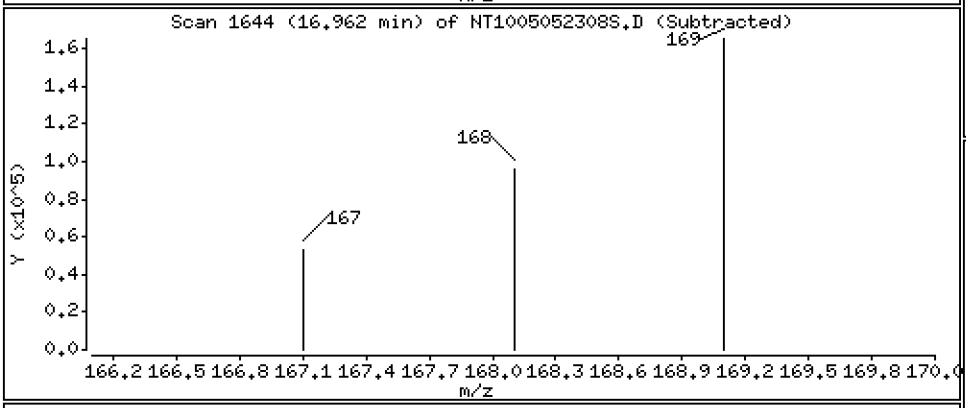
Column diameter: 0.25

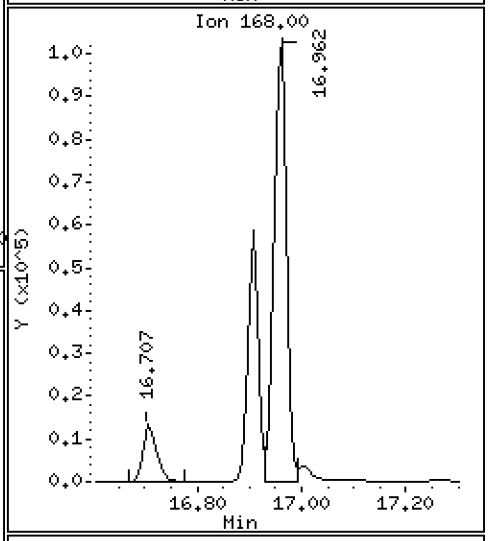
54 N-Nitrosodiphenylamine

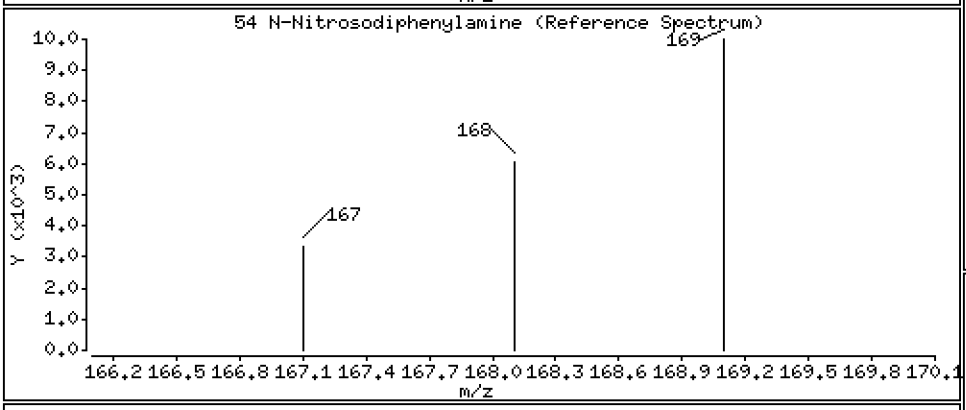
Concentration: 3.065 ug/L

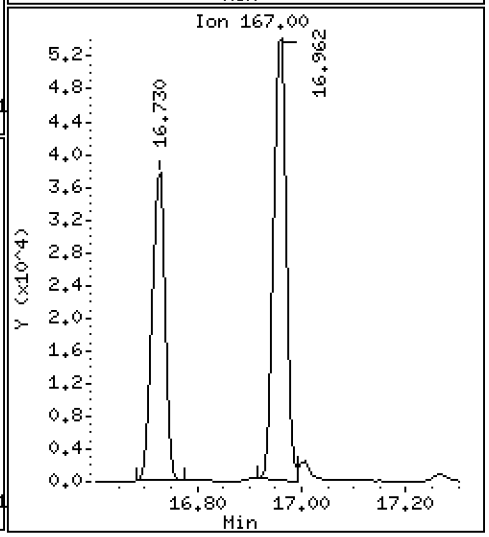


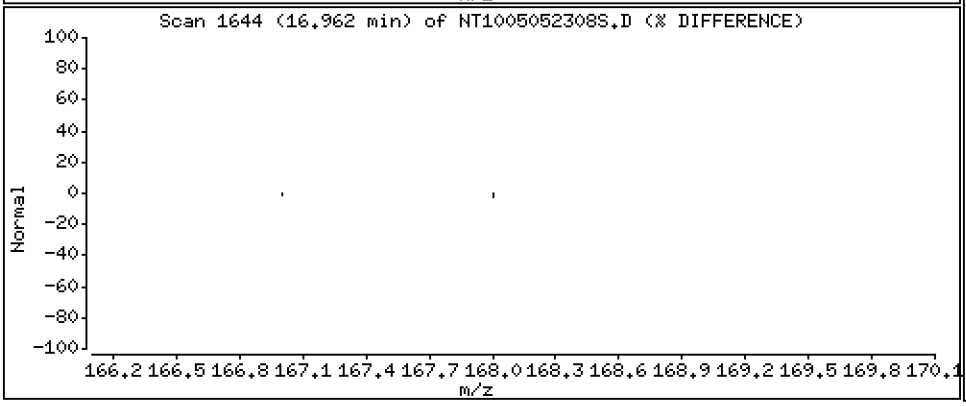












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Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

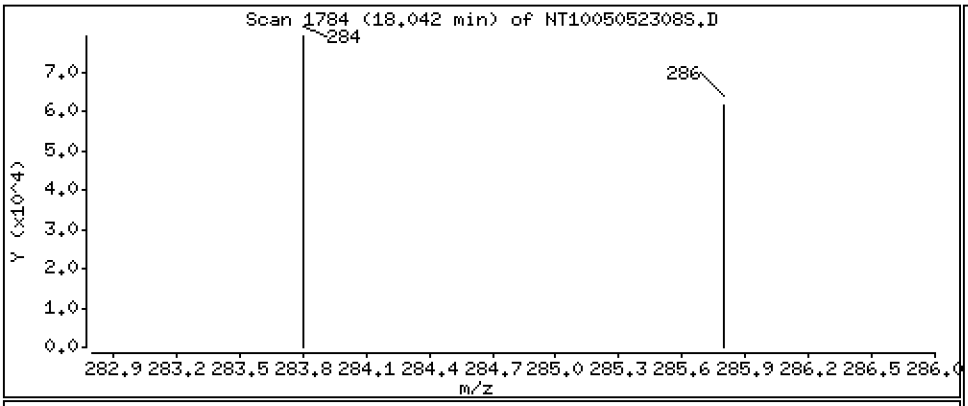
Operator: DSD

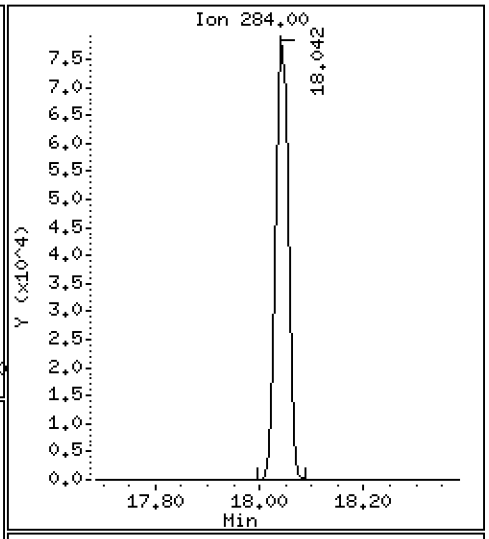
Column phase: ZB-5msi

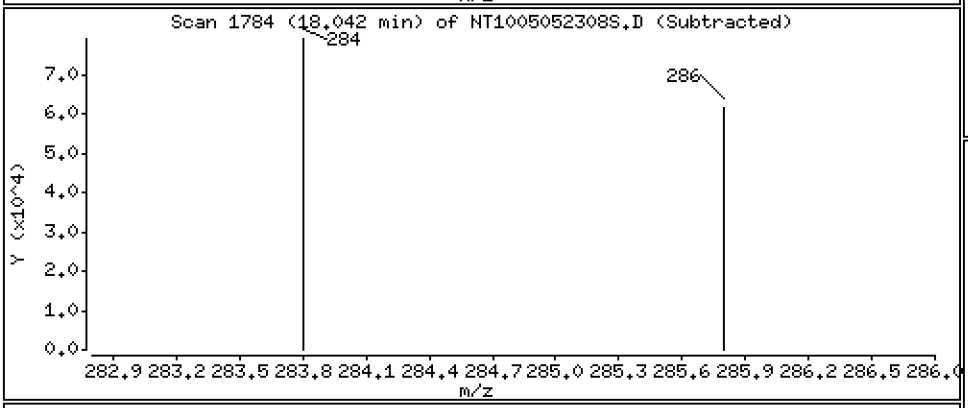
Column diameter: 0.25

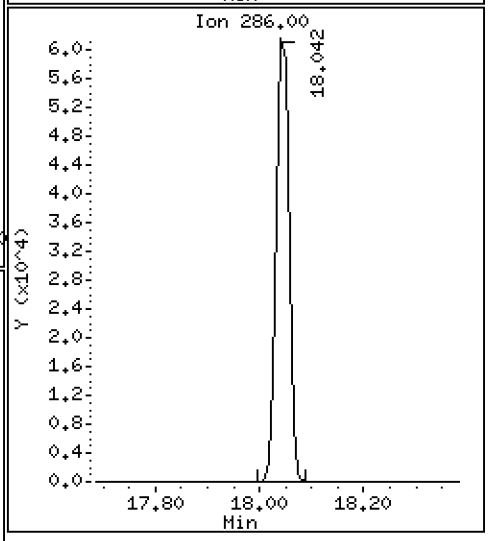
57 Hexachlorobenzene

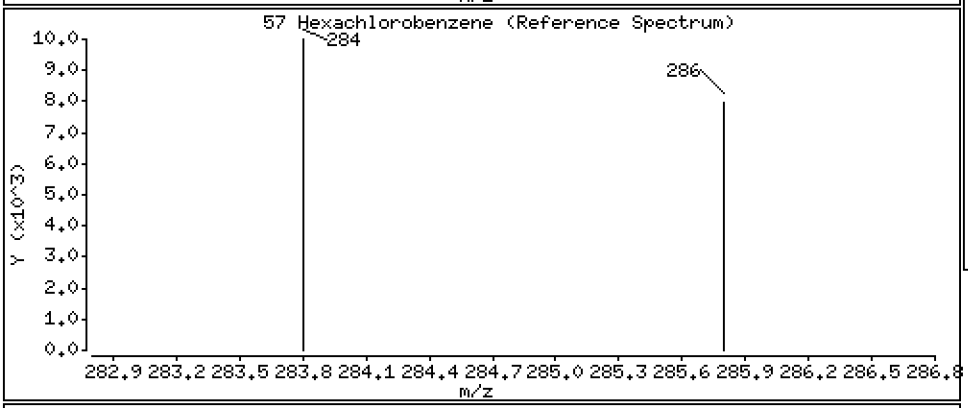
Concentration: 3.149 ug/L

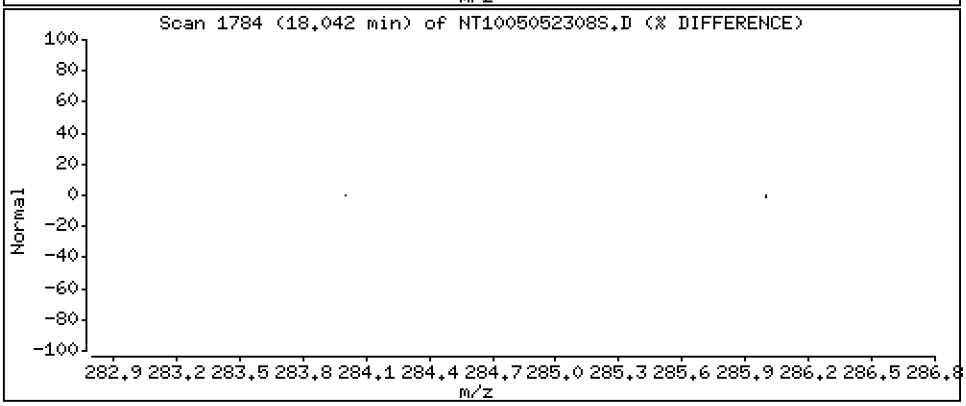












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

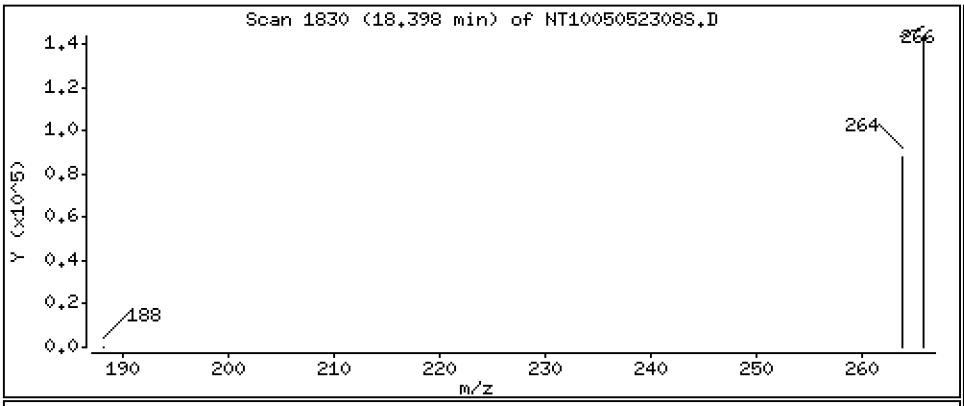
Operator: DSD

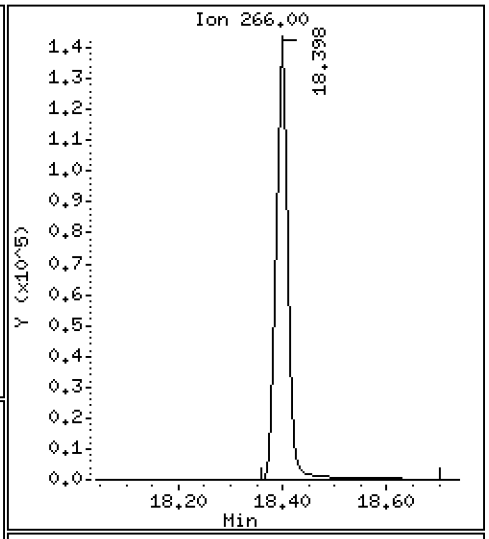
Column phase: ZB-5msi

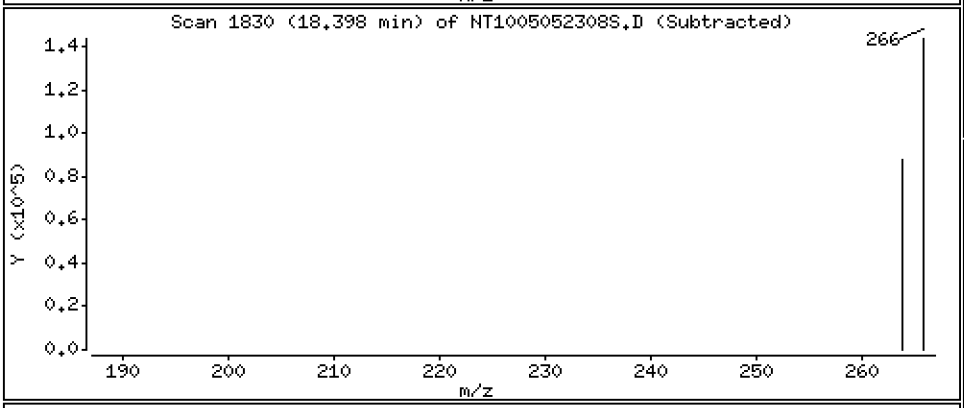
Column diameter: 0.25

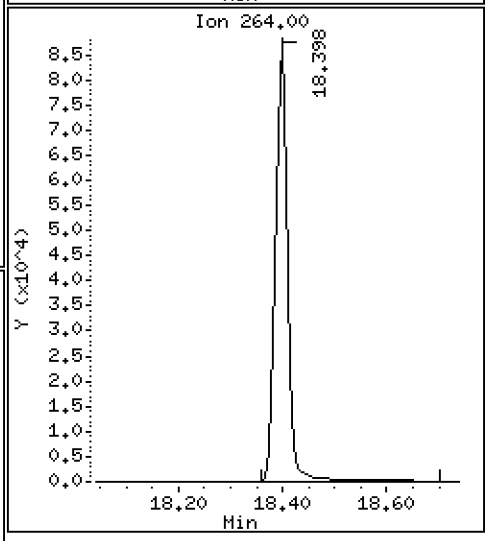
58 Pentachlorophenol

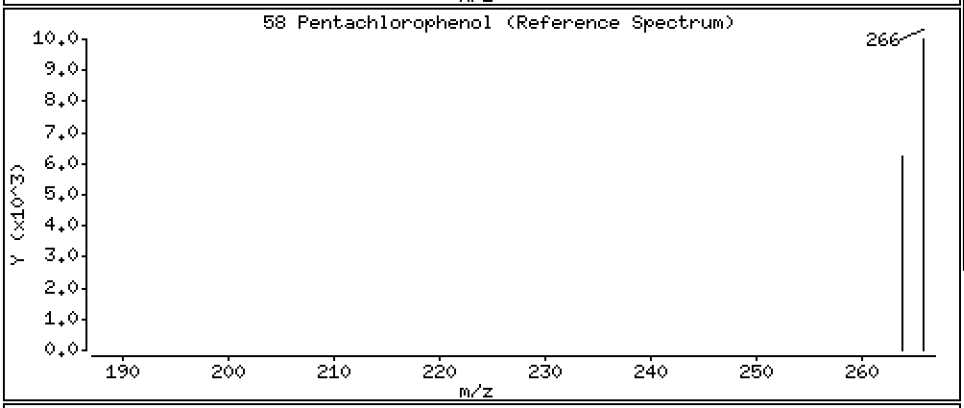
Concentration: 8.516 ug/L

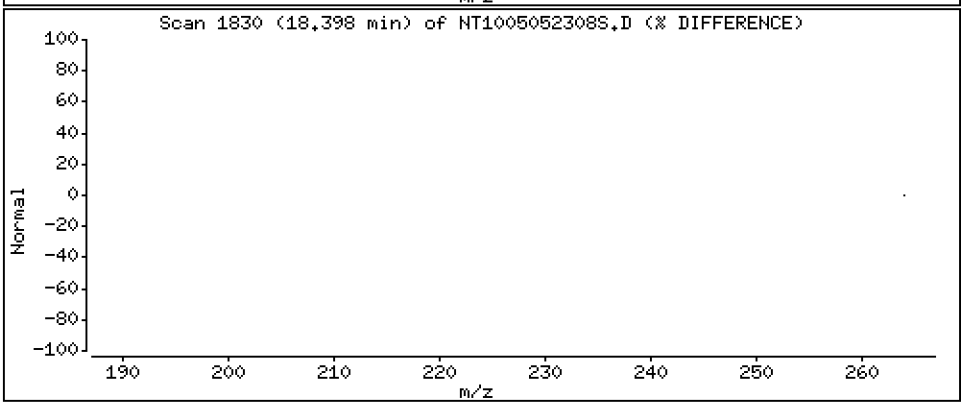












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

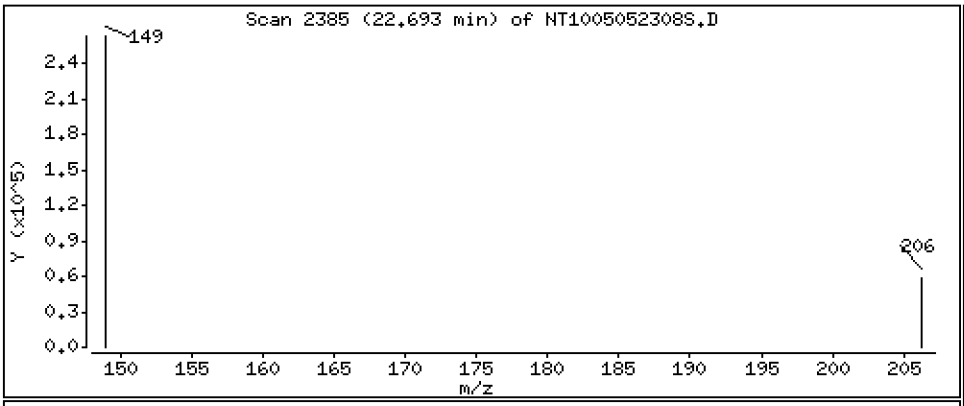
Operator: DSD

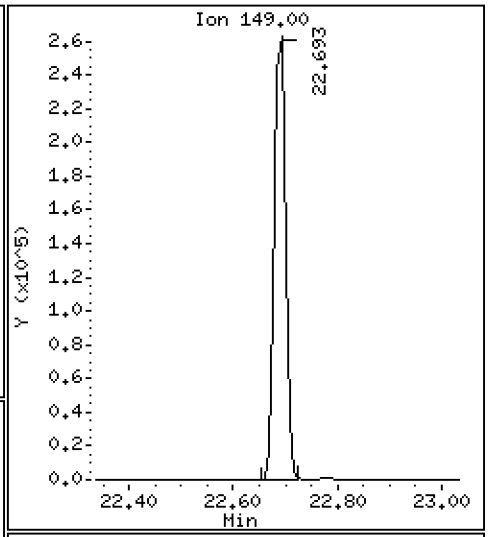
Column phase: ZB-5msi

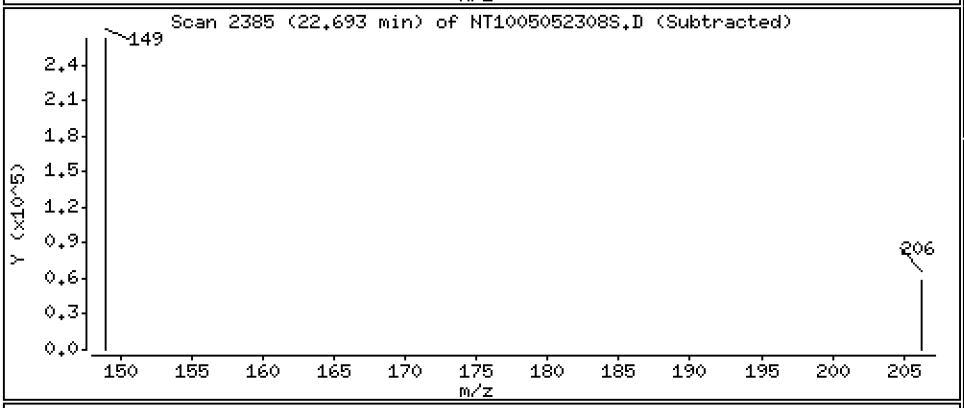
Column diameter: 0.25

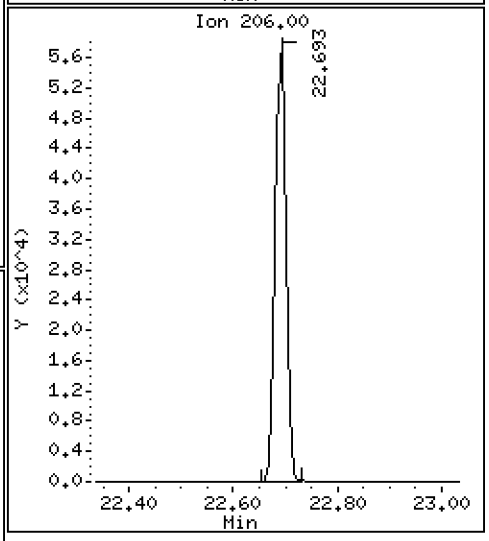
67 Butylbenzylphthalate

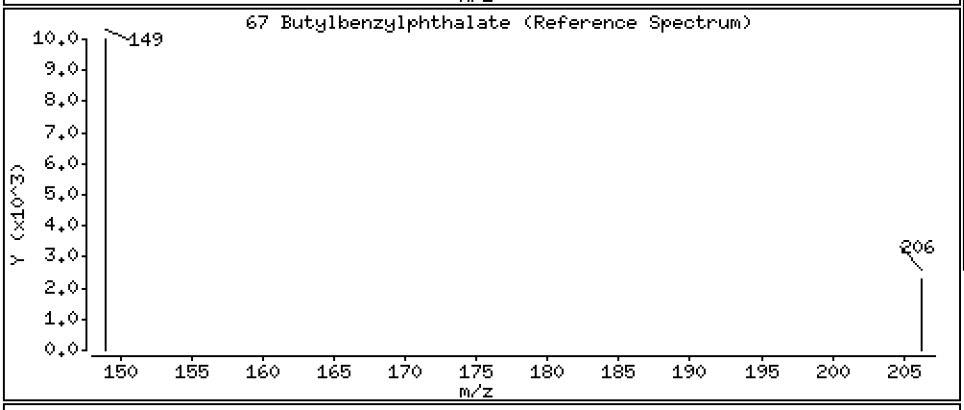
Concentration: 3.885 ug/L

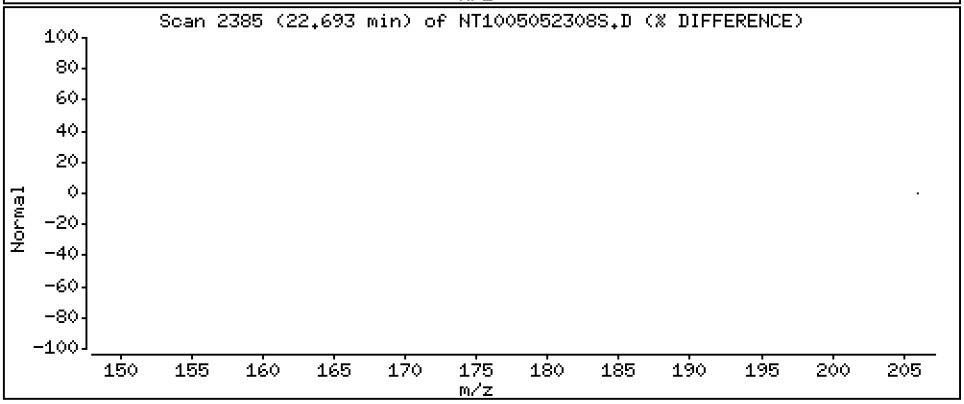












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

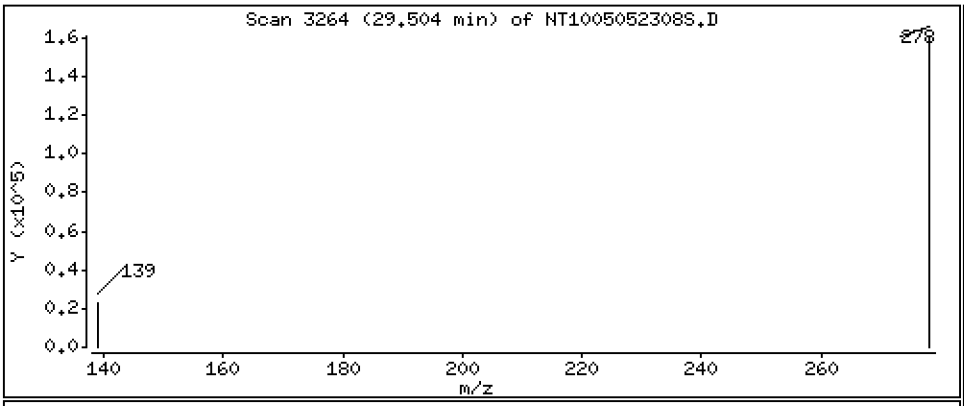
Operator: DSD

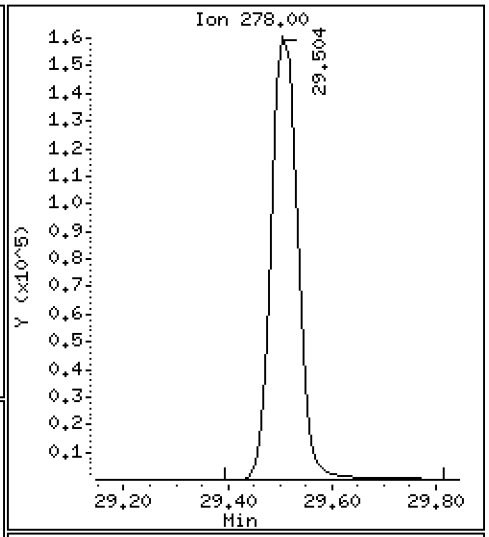
Column phase: ZB-5msi

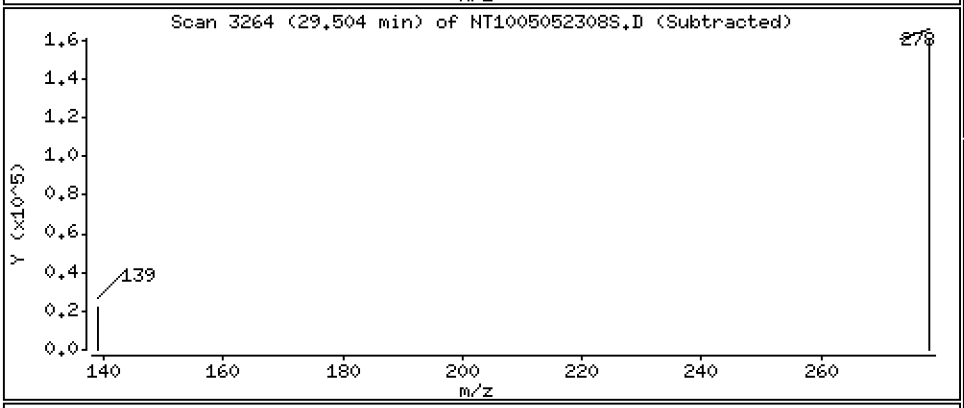
Column diameter: 0.25

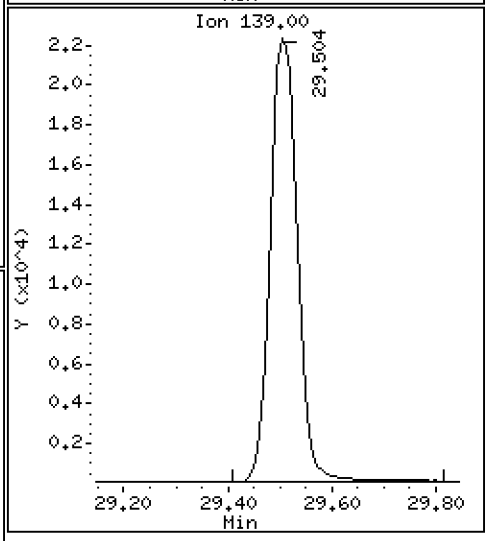
79 Dibenzo(a,h)anthracene

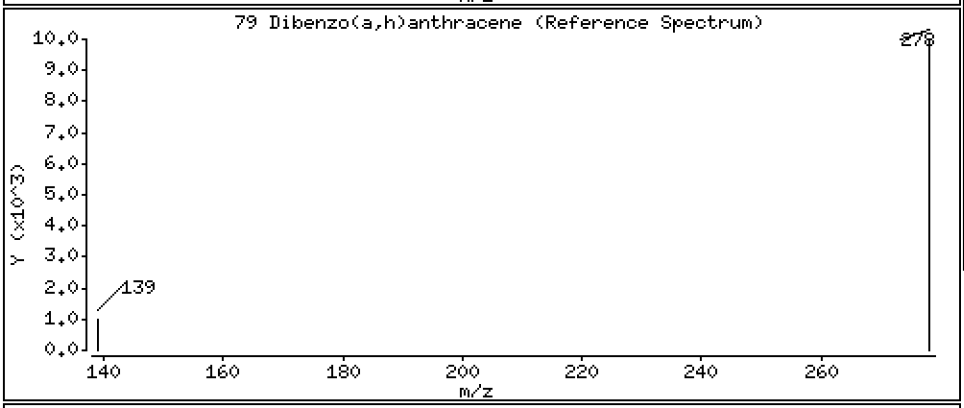
Concentration: 3.880 ug/L

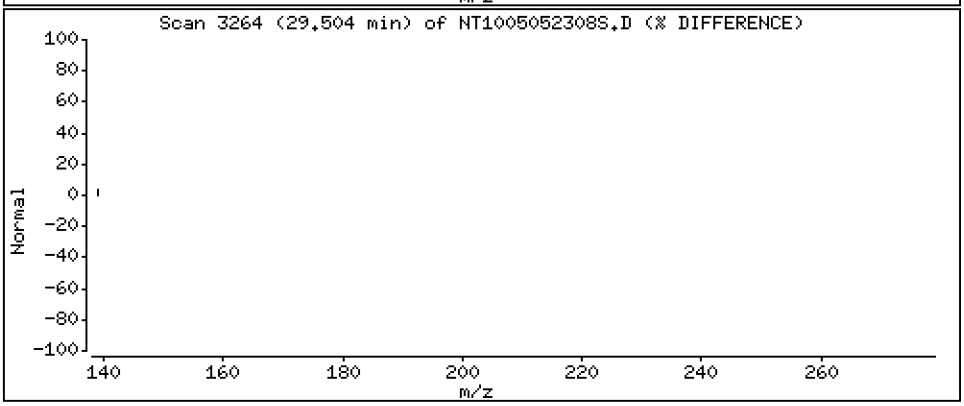












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D

Date : 05-MAY-2023 15:18

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BS2

Volume Injected (uL): 1.0

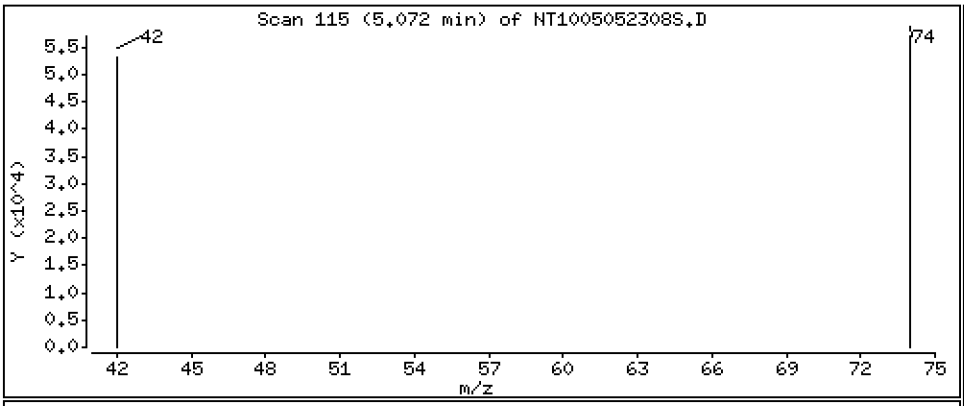
Operator: DSD

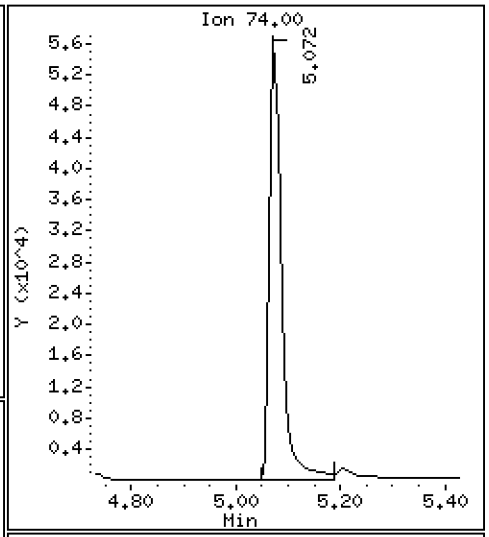
Column phase: ZB-5msi

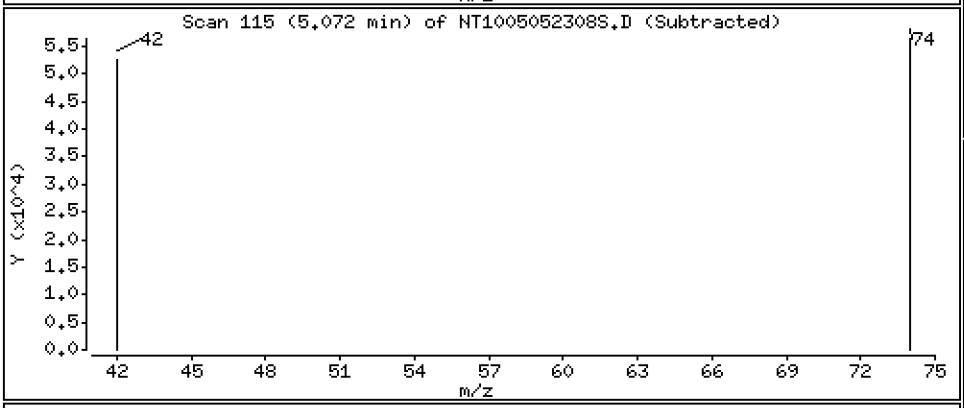
Column diameter: 0.25

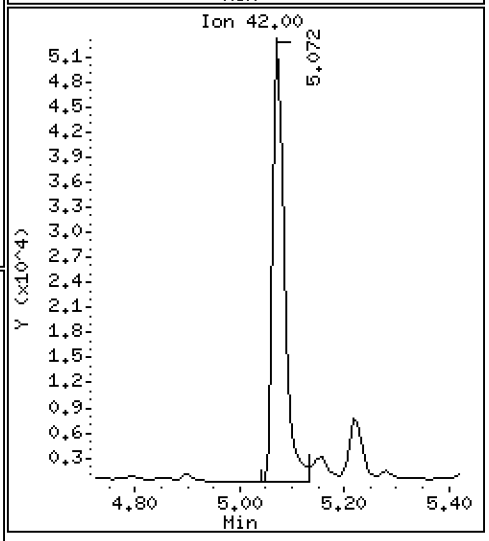
90 N-Nitrosodimethylamine

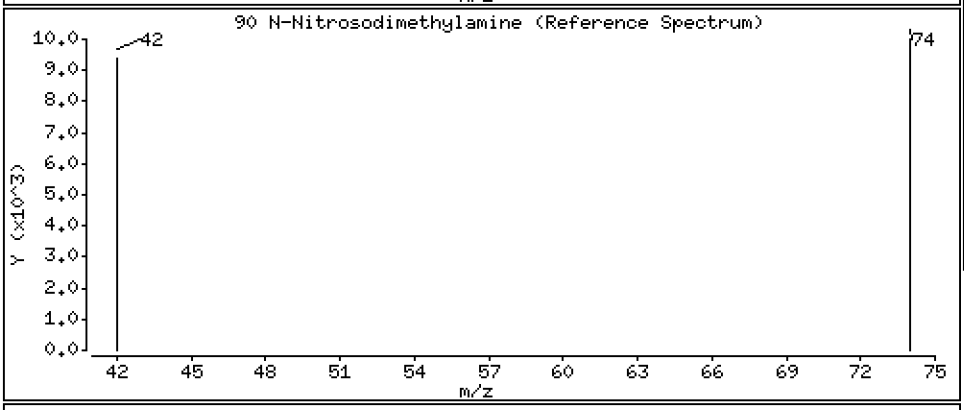
Concentration: 3.183 ug/L

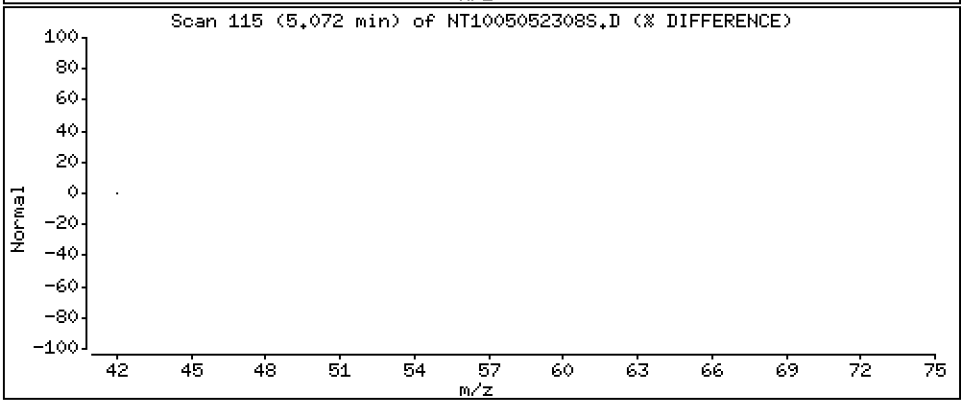












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052308S.D
Lab Smp Id: BLD0329-BS2
Inj Date : 05-MAY-2023 15:18 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0329-BS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.763)	196328	3.94860	3.949(R)
3	Phenol	94	8.850	8.842	(0.932)	154312	2.47764	2.478
7	1,3-Dichlorobenzene	146	9.429	9.430	(0.993)	191539	2.92422	2.924
* 8	1,4-Dichlorobenzene-d4	152	9.491	9.492	(1.000)	163221	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	193233	2.97862	2.979
11	Benzyl alcohol	79	9.755	9.756	(1.028)	151245	3.51154	3.512
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	190086	3.04640	3.046
13	2-Methylphenol	108	9.965	9.965	(1.050)	125795	2.69879	2.699
15	4-Methylphenol	108	10.244	10.237	(1.079)	146597	2.99119	2.991
16	N-Nitroso-di-n-propylamine	70	10.314	10.315	(1.087)	118858	3.36114	3.361
22	2,4-Dimethylphenol	107	11.287	11.288	(0.942)	262913	4.32397	4.324
24	Benzoic acid	105	11.423	11.381	(0.953)	209103	5.18560	5.186
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.993)	178944	2.86855	2.869
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	611943	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	121489	3.05019	3.050
39	Dimethylphthalate	163	15.106	15.099	(0.967)	439340	3.62382	3.624
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	319820	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.061)	551797	4.23887	4.239
54	N-Nitrosodiphenylamine	169	16.961	16.954	(0.909)	249652	3.06531	3.065
57	Hexachlorobenzene	284	18.041	18.034	(0.966)	125580	3.14865	3.149

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.390	(0.985)	220140	8.51559	8.516
*	59 Phenanthrene-d10	188	18.668	18.669	(1.000)	624505	4.00000	
$	66 Terphenyl-d14	244	21.779	21.771	(0.919)	435851	3.89045	3.890(R)
	67 Butylbenzylphthalate	149	22.692	22.685	(0.958)	369521	3.88453	3.885
*	69 Chrysene-d12	240	23.691	23.684	(1.000)	519561	4.00000	
*	77 Perylene-d12	264	26.525	26.517	(1.000)	456900	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.503	29.496	(1.112)	572218	3.87987	3.880
	90 N-Nitrosodimethylamine	74	5.072	5.080	(0.534)	86346	3.18335	3.183

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052308S.D
Lab Smp Id: BLD0329-BS2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	163221	-10.66
27 Naphthalene-d8	662220	331110	1324440	611943	-7.59
42 Acenaphthene-d10	335558	167779	671116	319820	-4.69
59 Phenanthrene-d10	678190	339095	1356380	624505	-7.92
69 Chrysene-d12	566969	283485	1133938	519561	-8.36
77 Perylene-d12	522906	261453	1045812	456900	-12.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	-0.00
27 Naphthalene-d8	11.99	11.49	12.49	11.99	-0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	-0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.67	-0.00
69 Chrysene-d12	23.68	23.18	24.18	23.69	0.03
77 Perylene-d12	26.52	26.02	27.02	26.53	0.03

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

REVIEW SUMMARY FOR FILE - NT1005052308S.D

Lab ID: BLD0329-BS2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 15:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523095.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

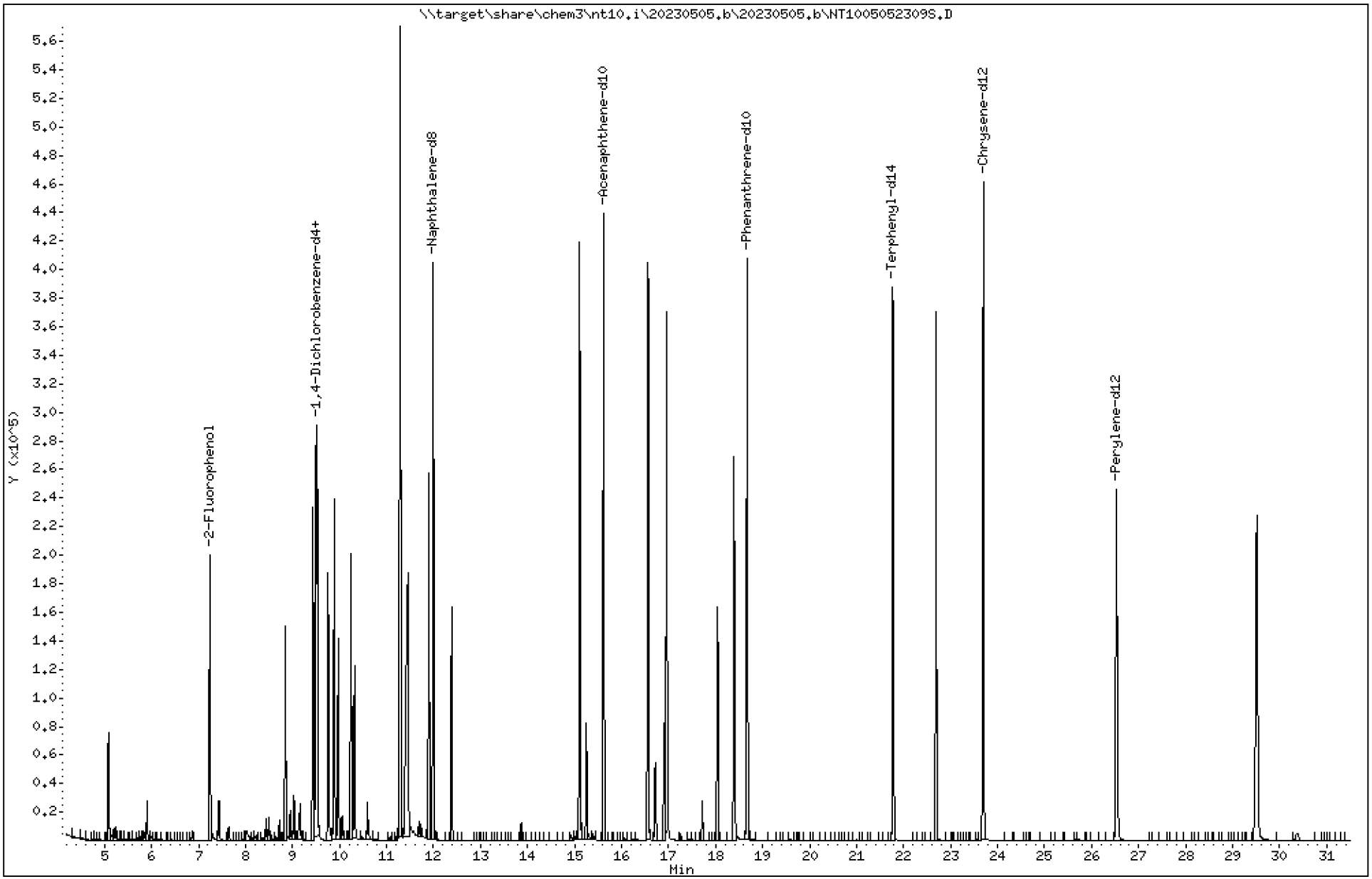
Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

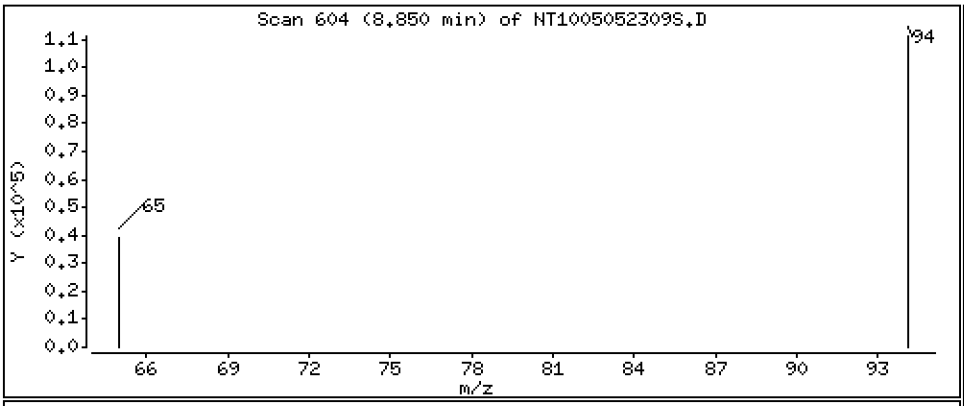
Operator: DSD

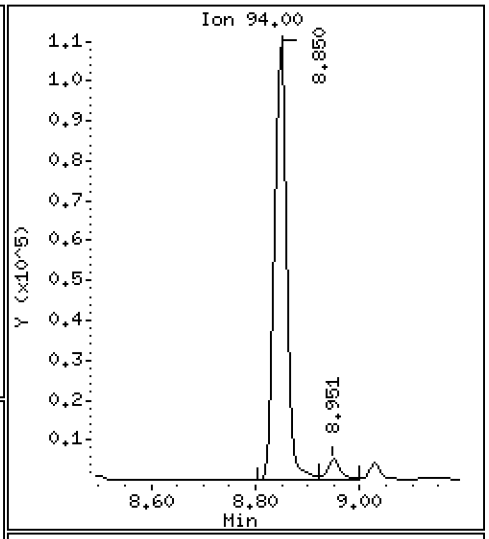
Column phase: ZB-5msi

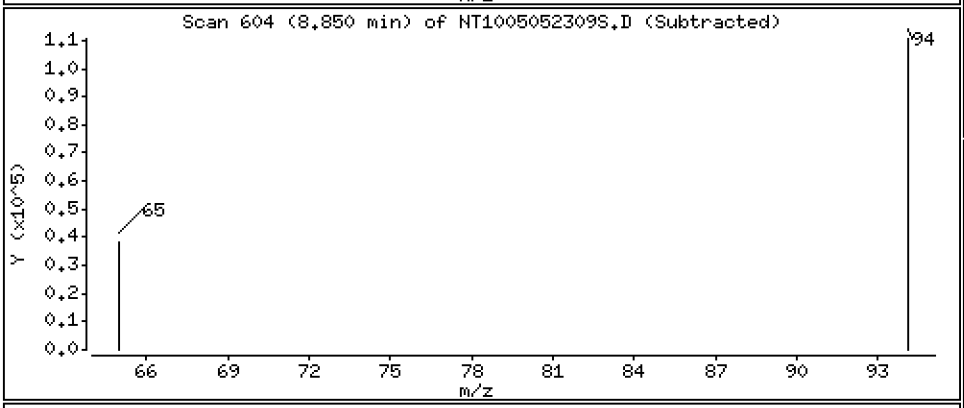
Column diameter: 0.25

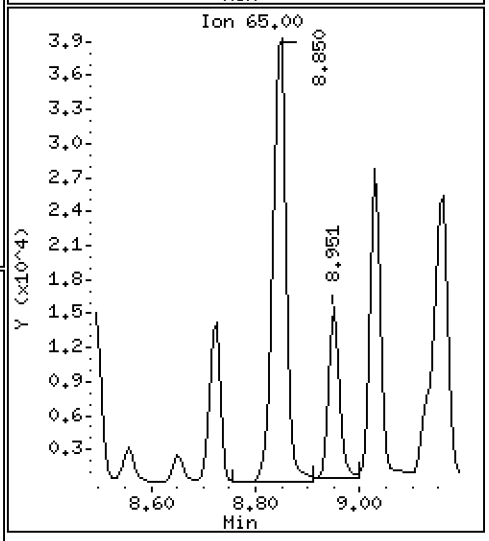
3 Phenol

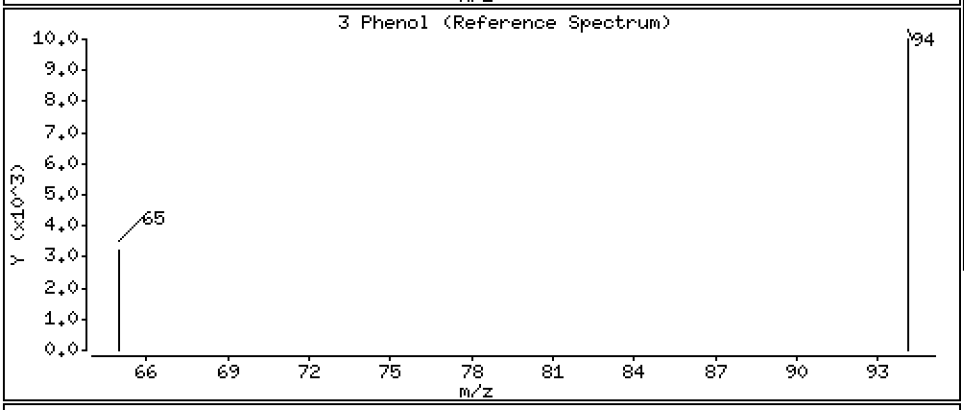
Concentration: 2.602 ug/L

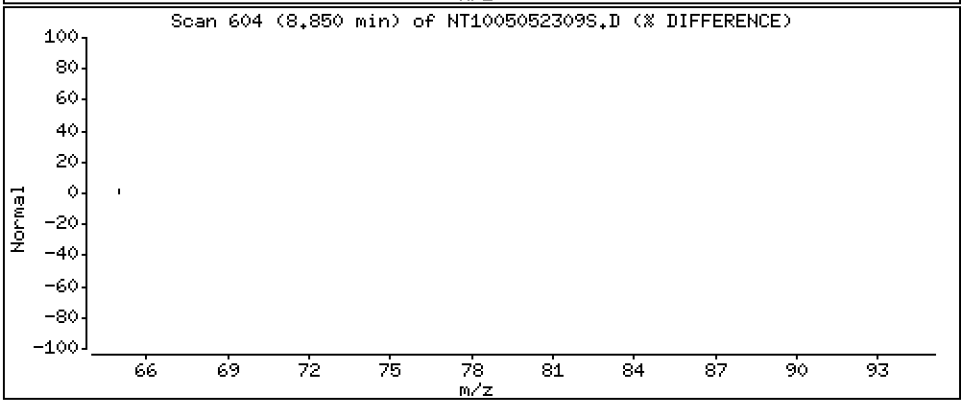












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

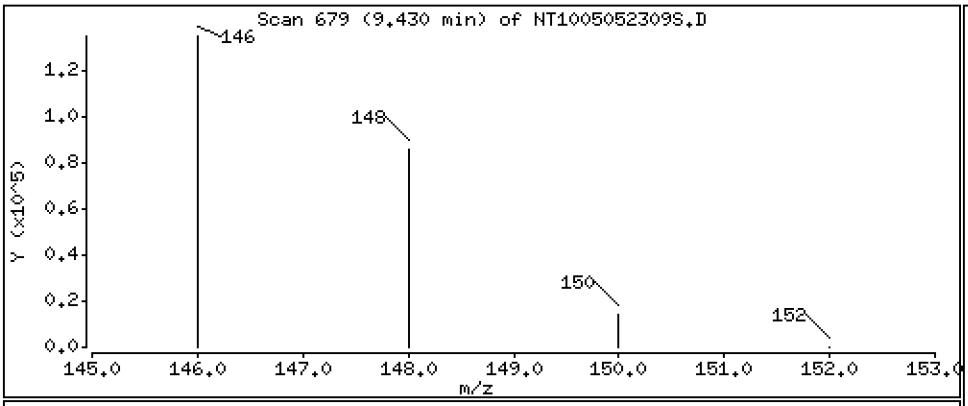
Operator: DSD

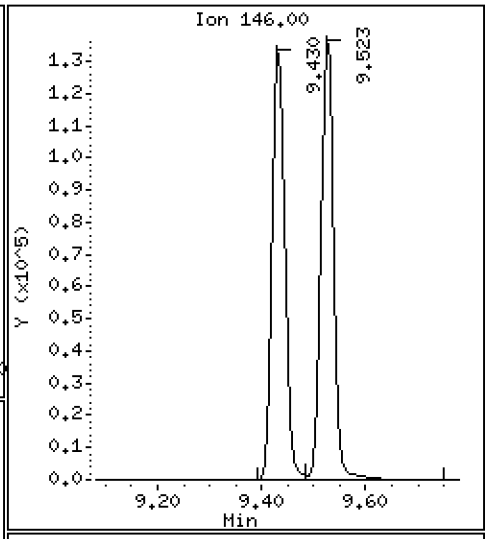
Column phase: ZB-5msi

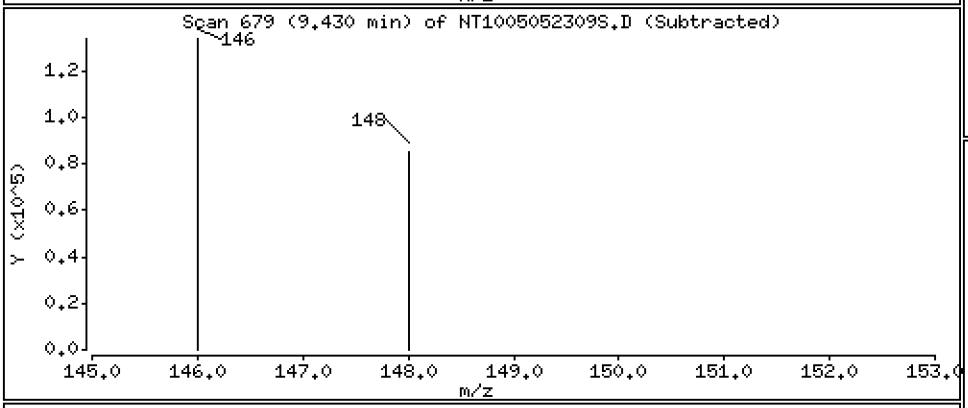
Column diameter: 0.25

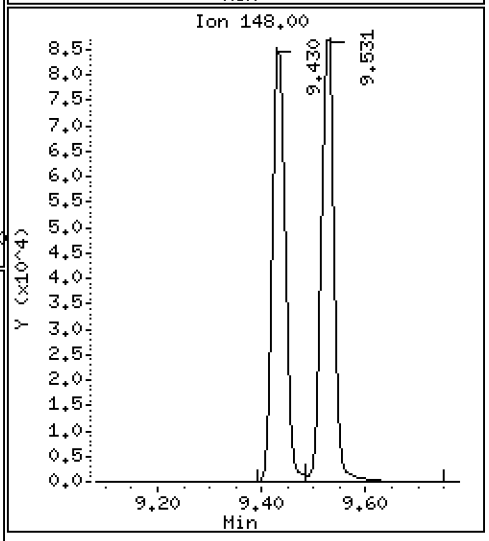
7 1,3-Dichlorobenzene

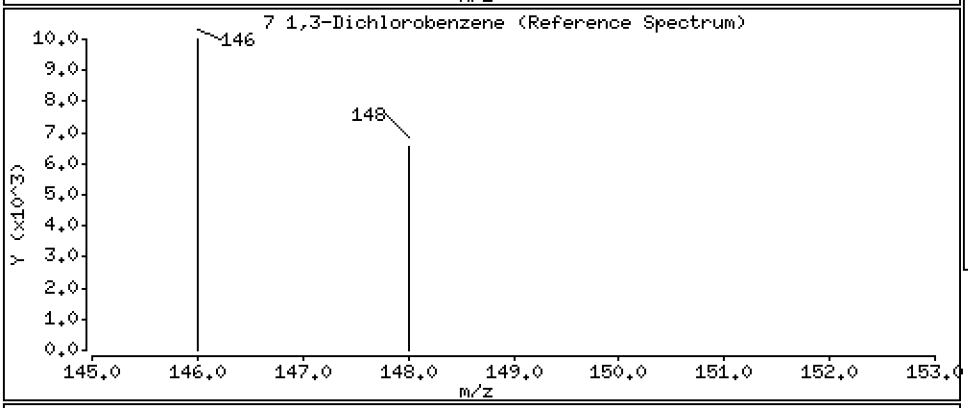
Concentration: 3.171 ug/L

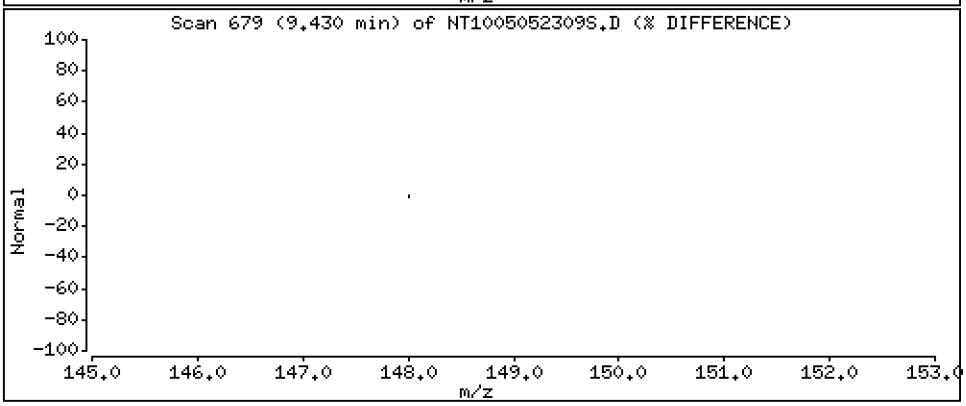












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

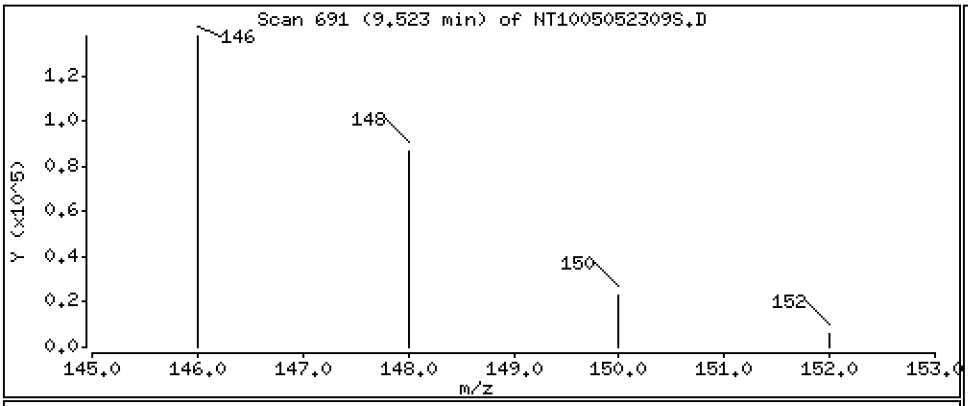
Operator: DSD

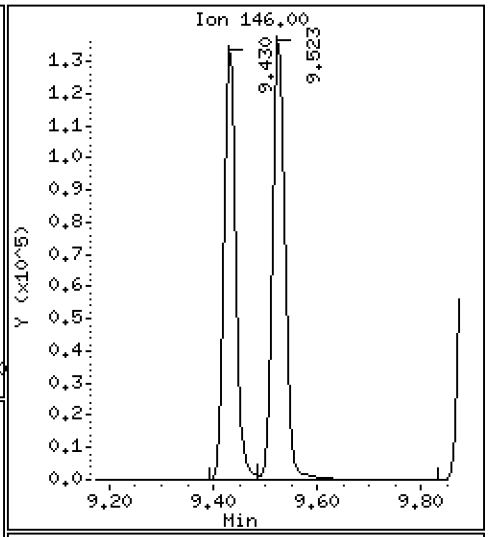
Column phase: ZB-5msi

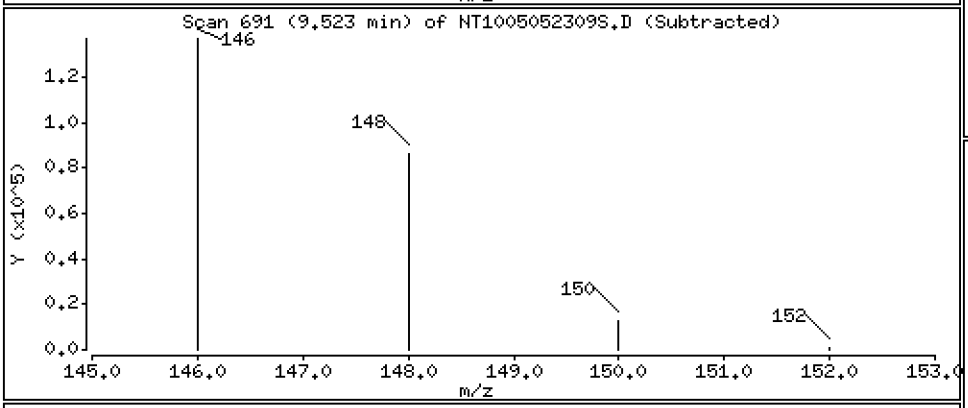
Column diameter: 0.25

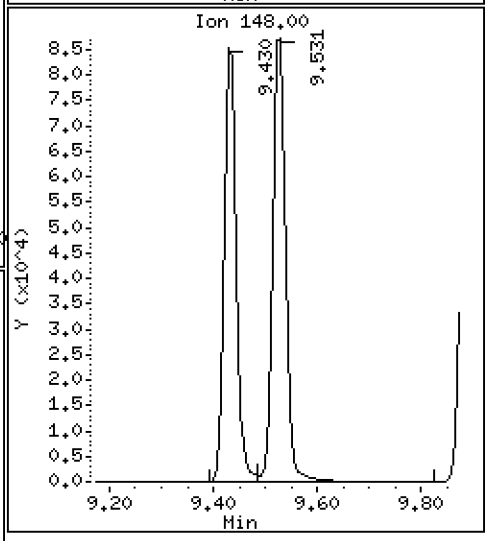
9 1,4-Dichlorobenzene

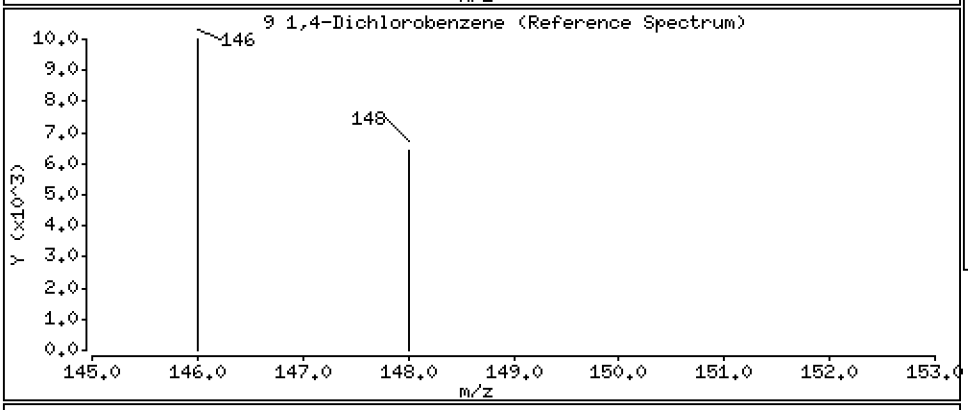
Concentration: 3.201 ug/L

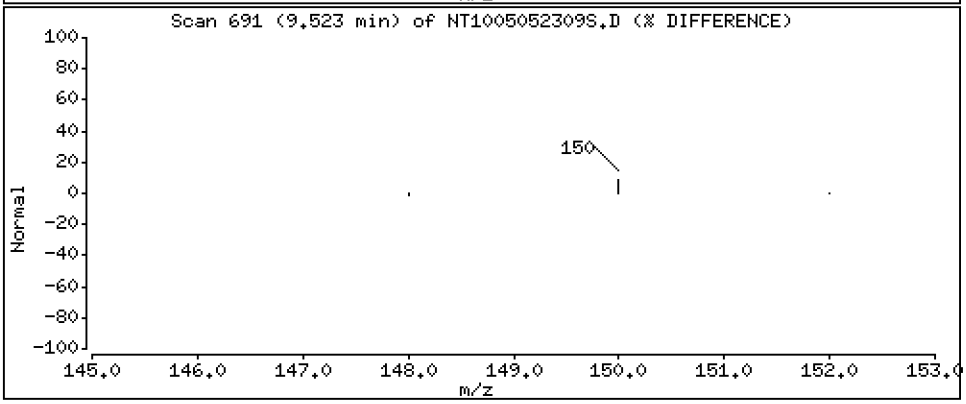












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

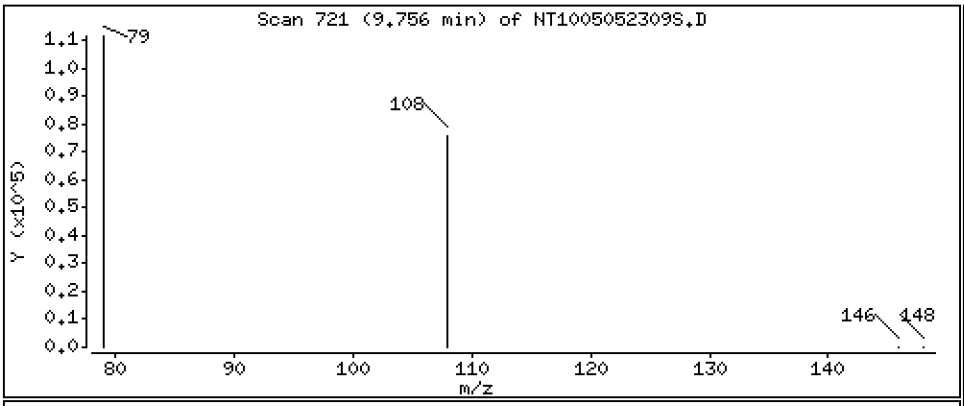
Operator: DSD

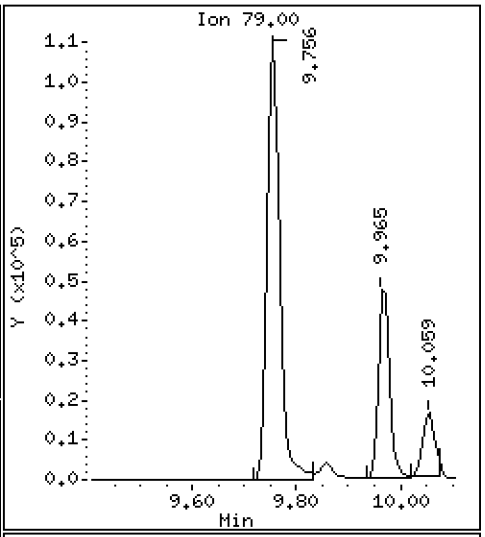
Column phase: ZB-5msi

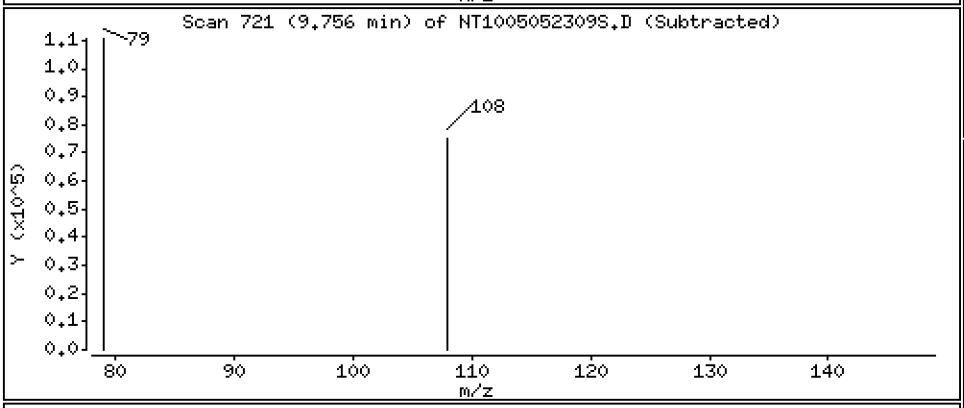
Column diameter: 0.25

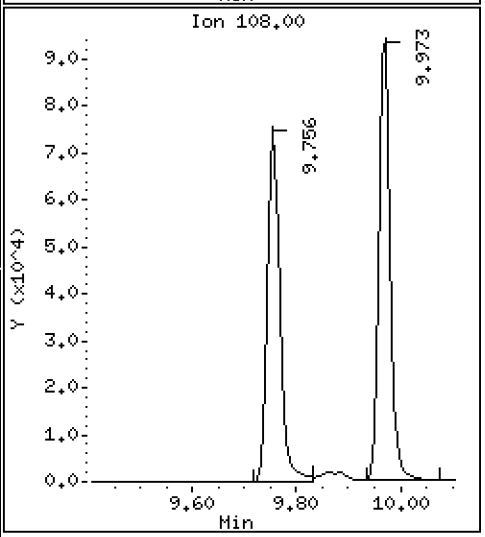
11 Benzyl alcohol

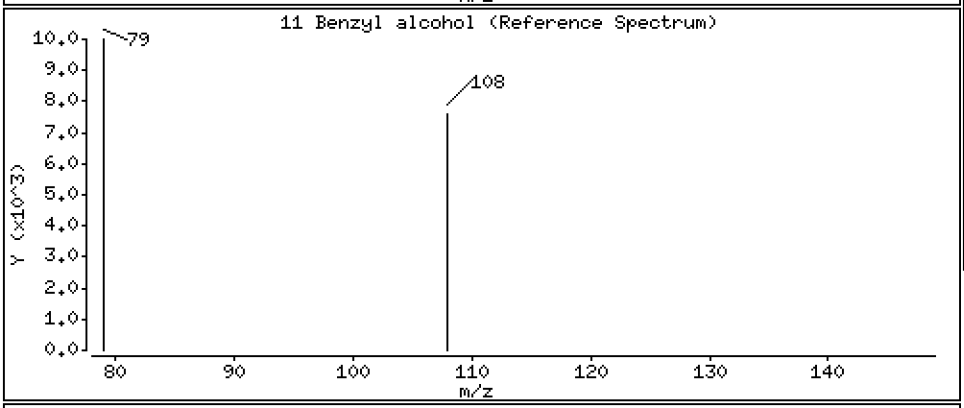
Concentration: 3.858 ug/L

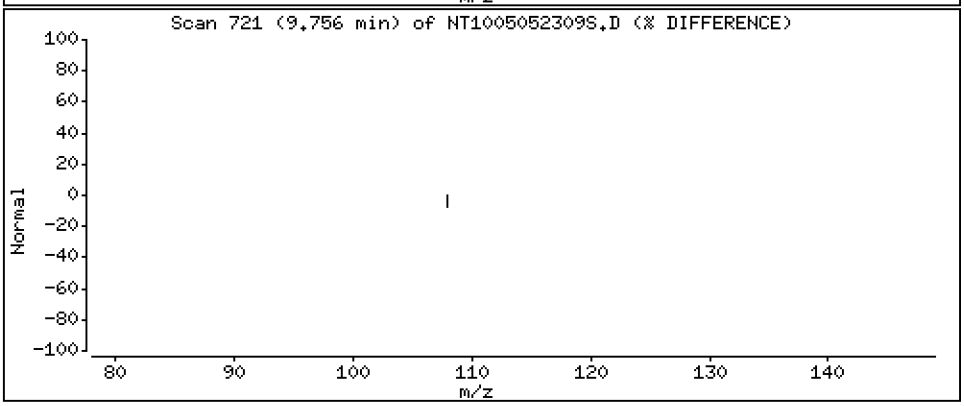












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

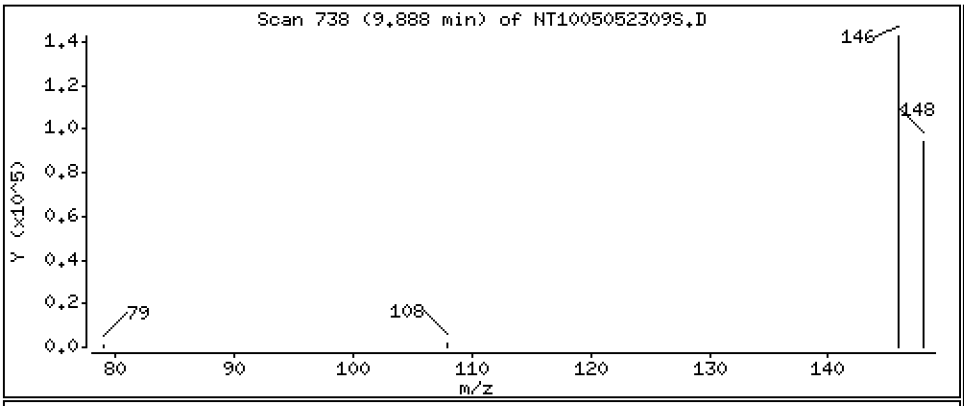
Operator: DSD

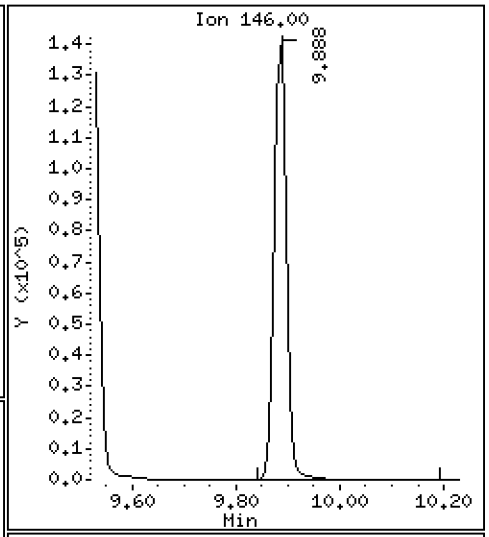
Column phase: ZB-5msi

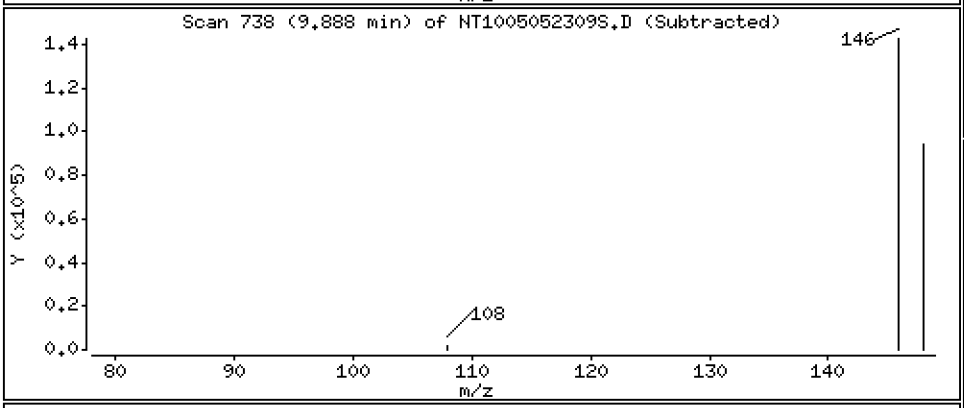
Column diameter: 0.25

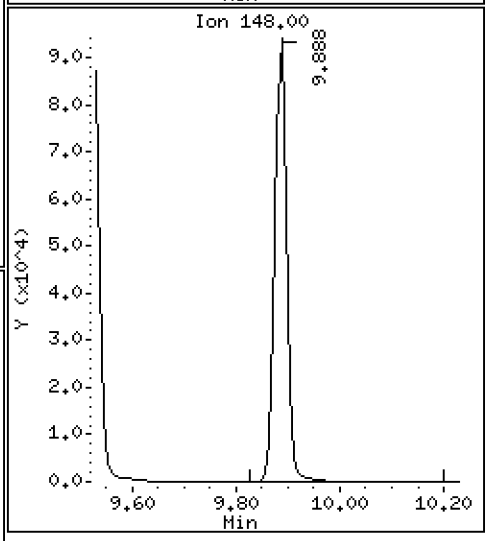
12 1,2-Dichlorobenzene

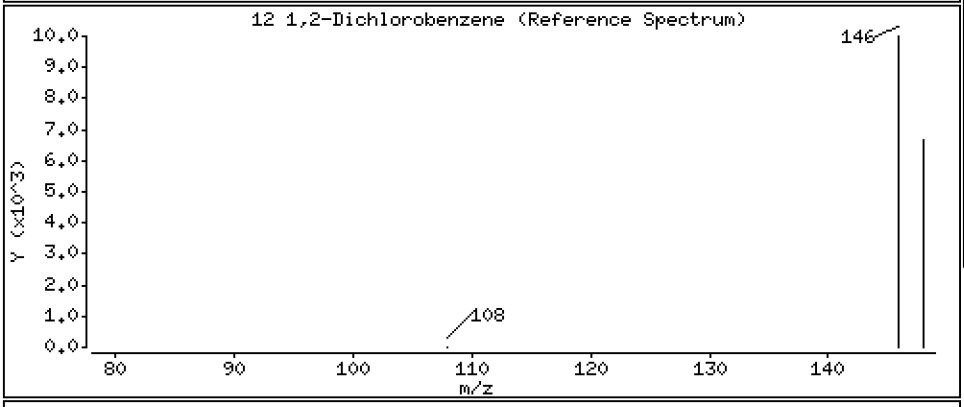
Concentration: 3.288 ug/L

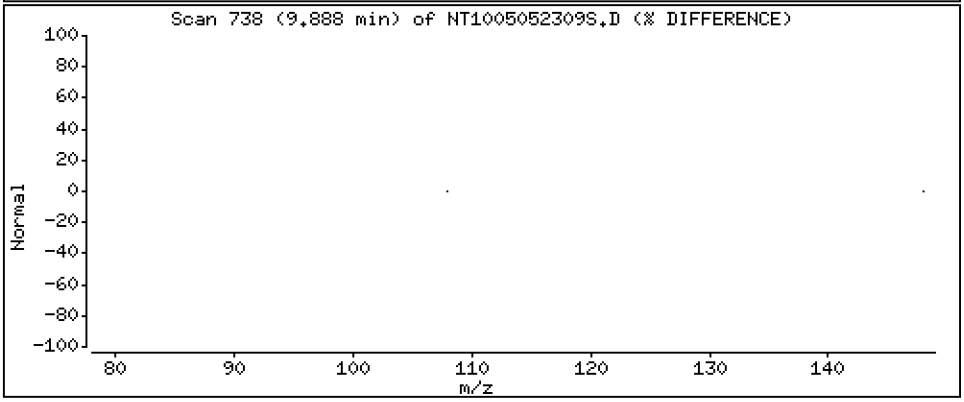












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

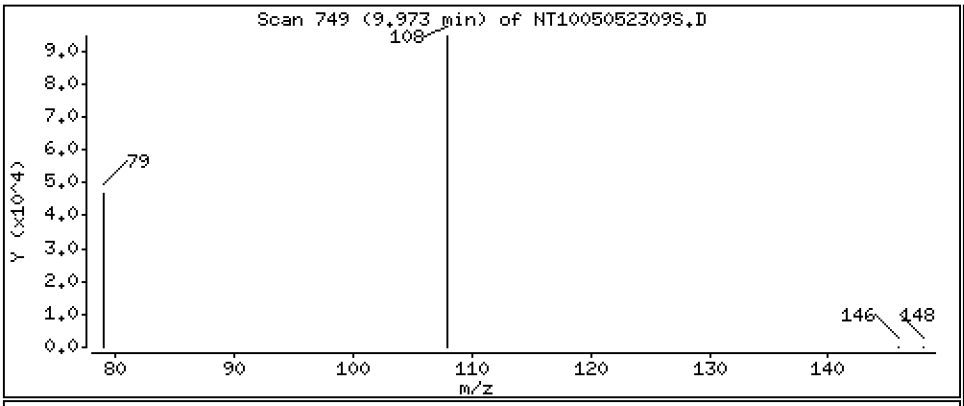
Operator: DSD

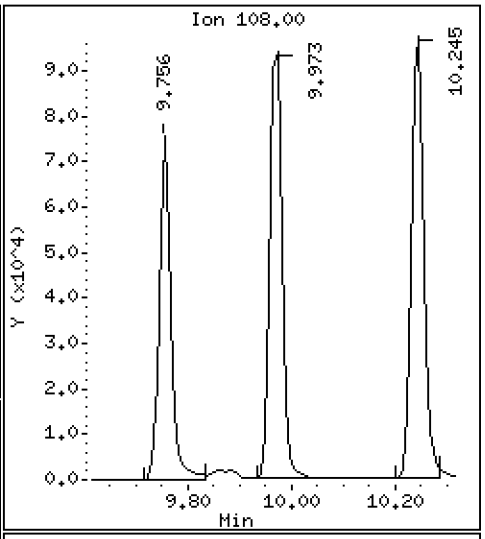
Column phase: ZB-5msi

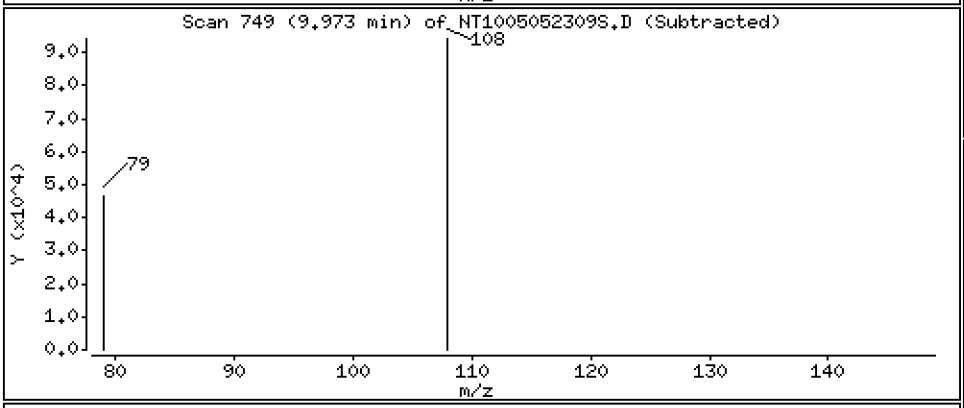
Column diameter: 0.25

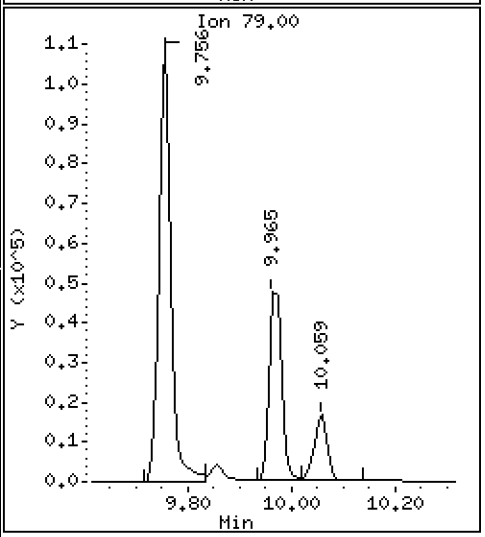
13 2-Methylphenol

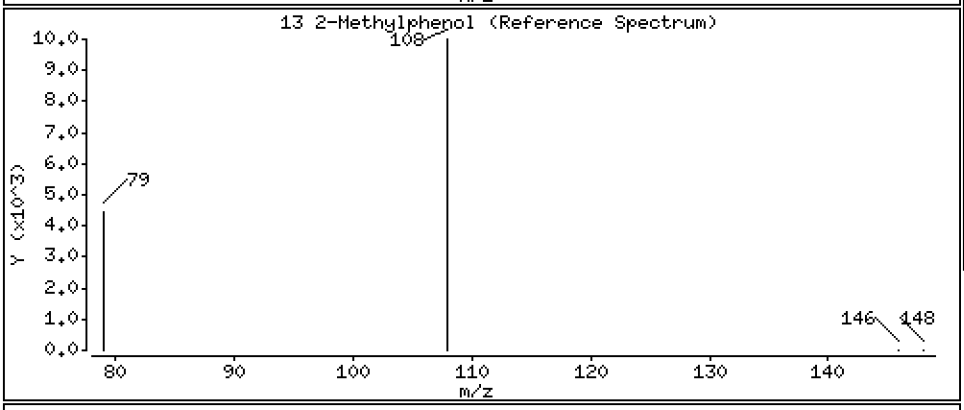
Concentration: 2.980 ug/L

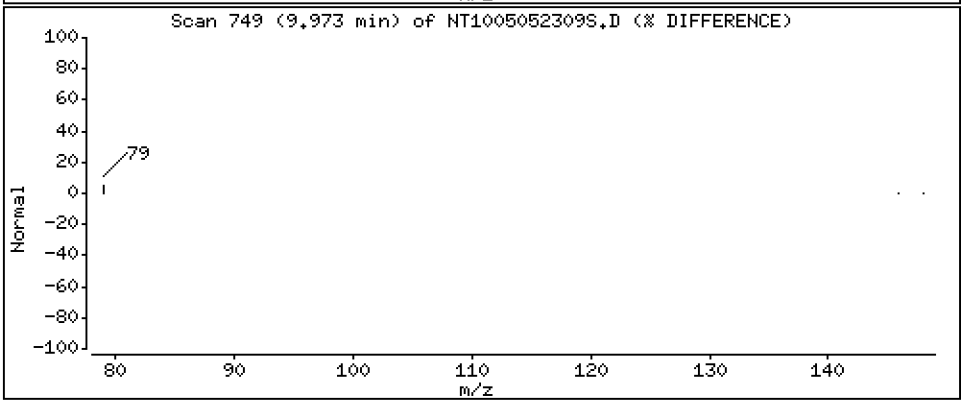












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

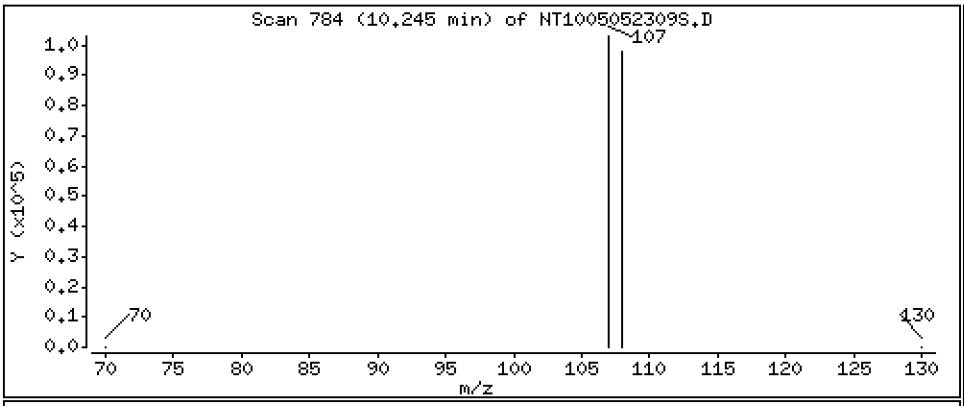
Operator: DSD

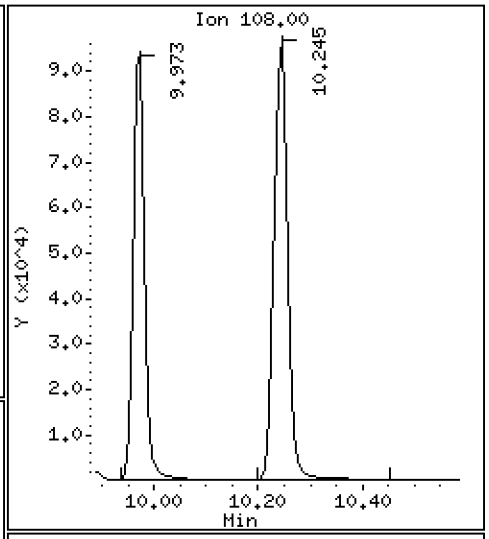
Column phase: ZB-5msi

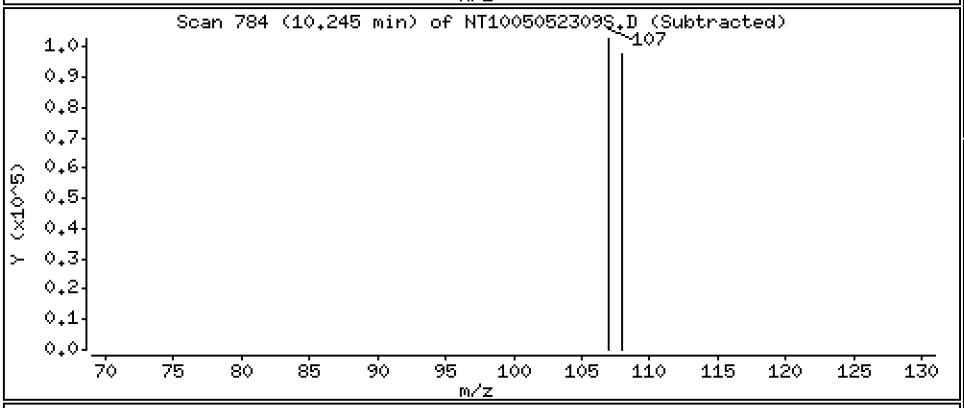
Column diameter: 0.25

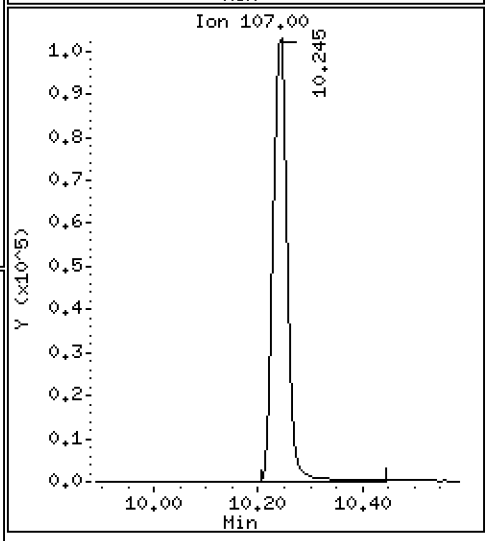
15 4-Methylphenol

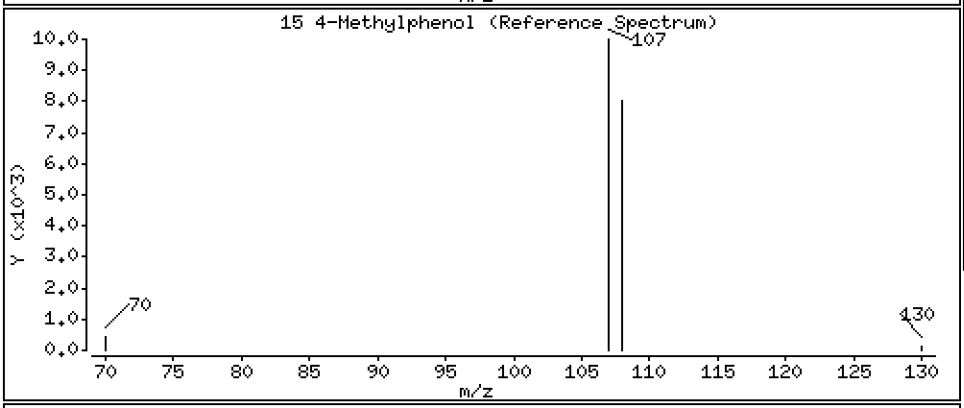
Concentration: 3.284 ug/L

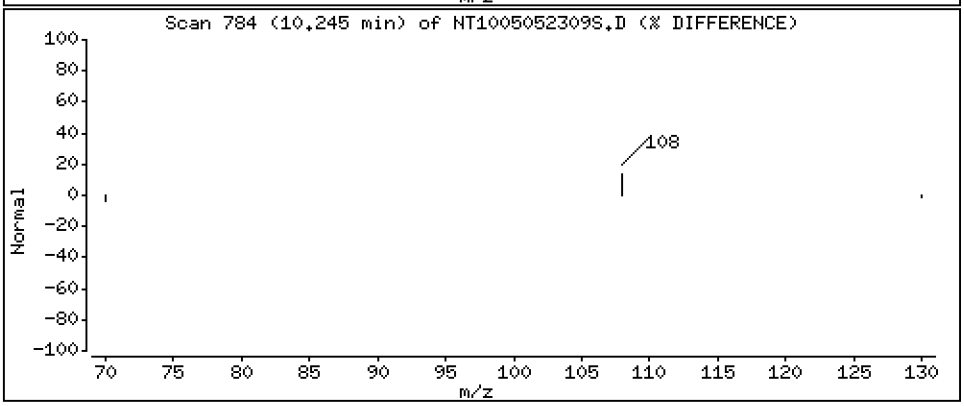












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

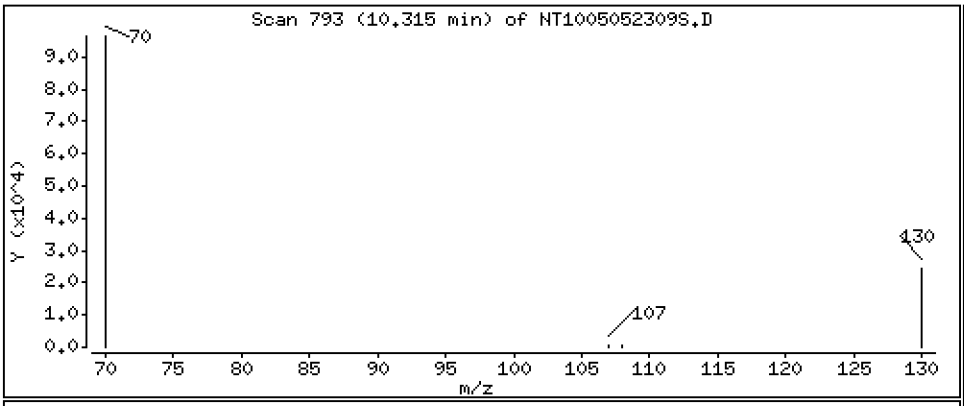
Operator: DSD

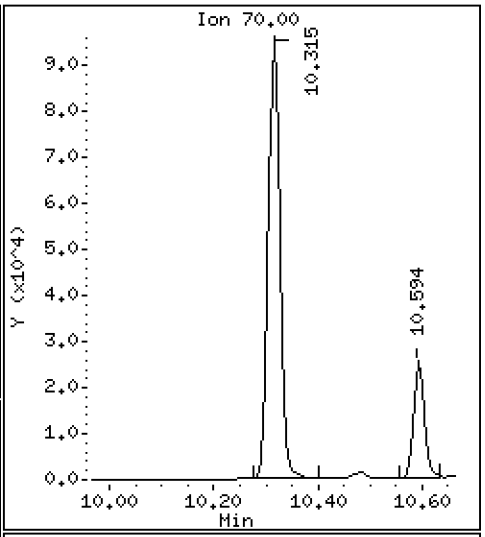
Column phase: ZB-5msi

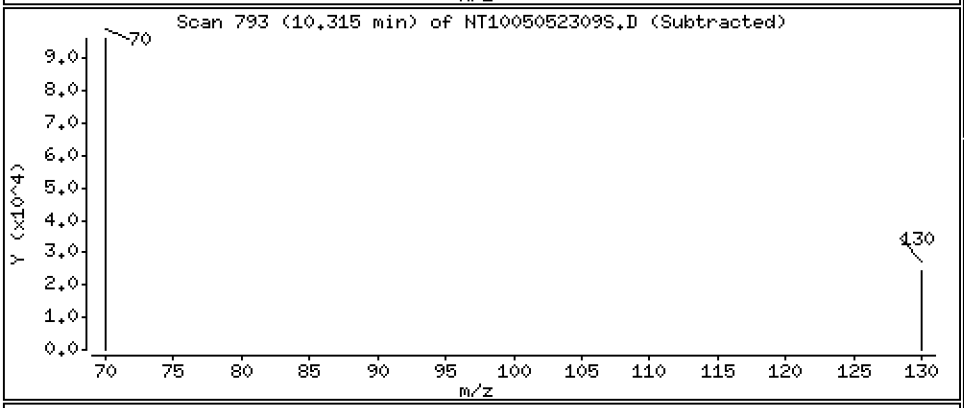
Column diameter: 0.25

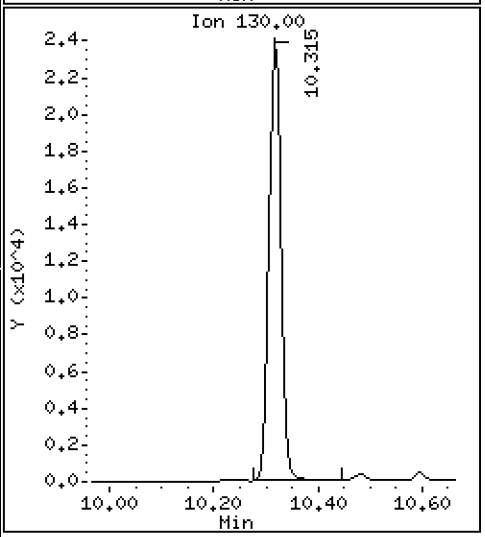
16 N-Nitroso-di-n-propylamine

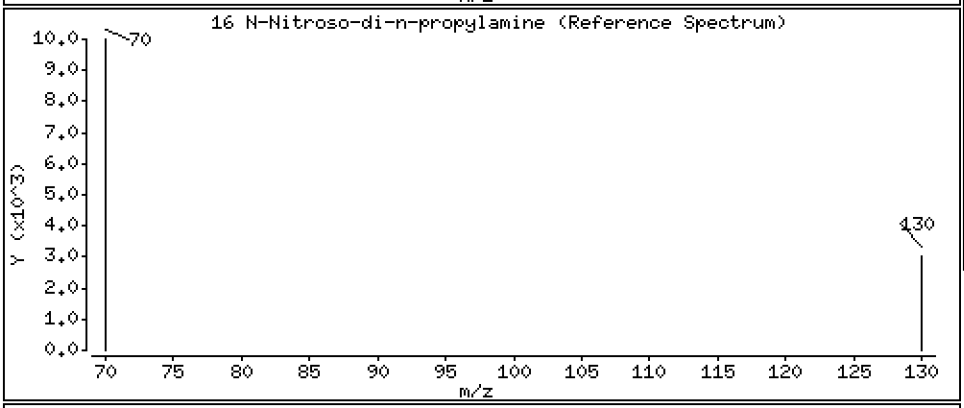
Concentration: 3.774 ug/L

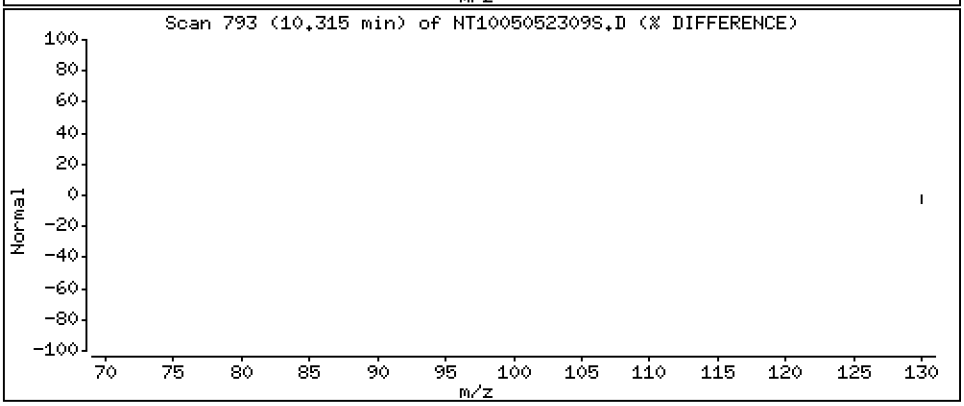












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523095.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

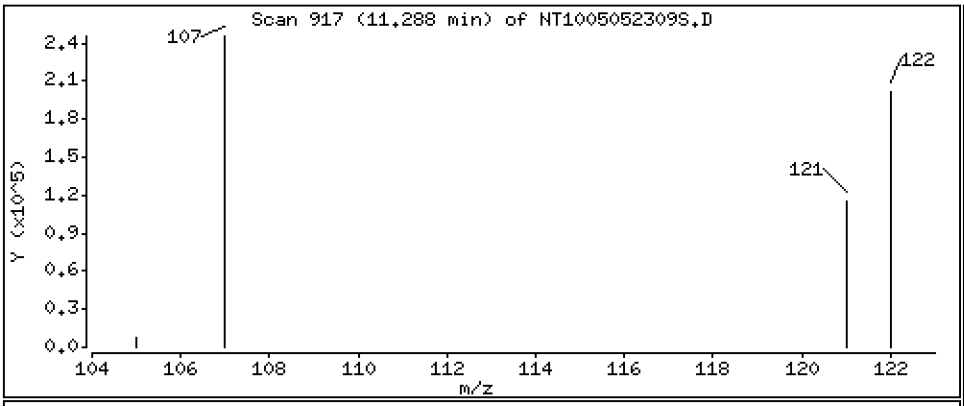
Operator: DSD

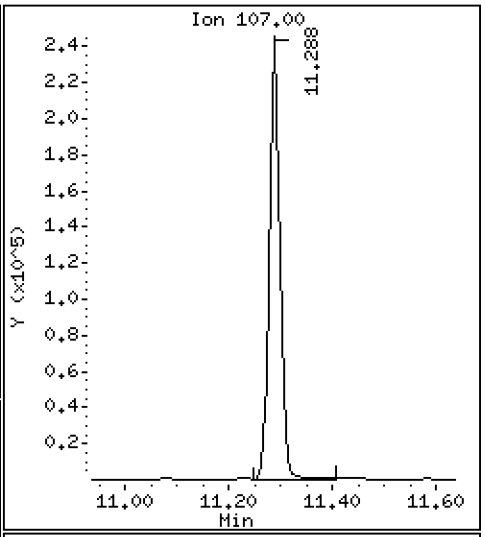
Column phase: ZB-5msi

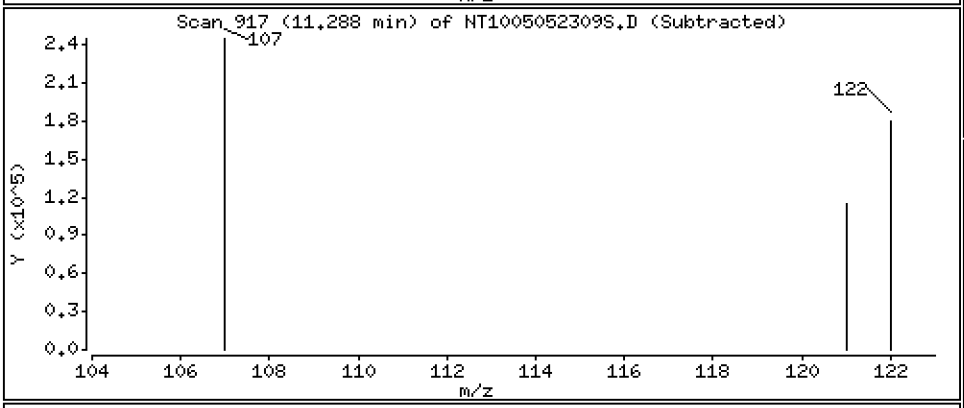
Column diameter: 0.25

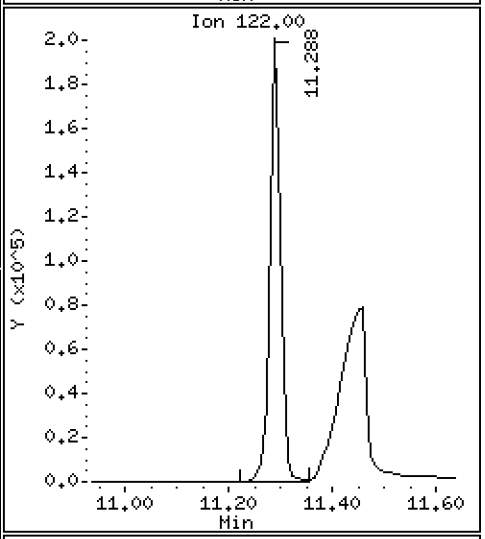
22 2,4-Dimethylphenol

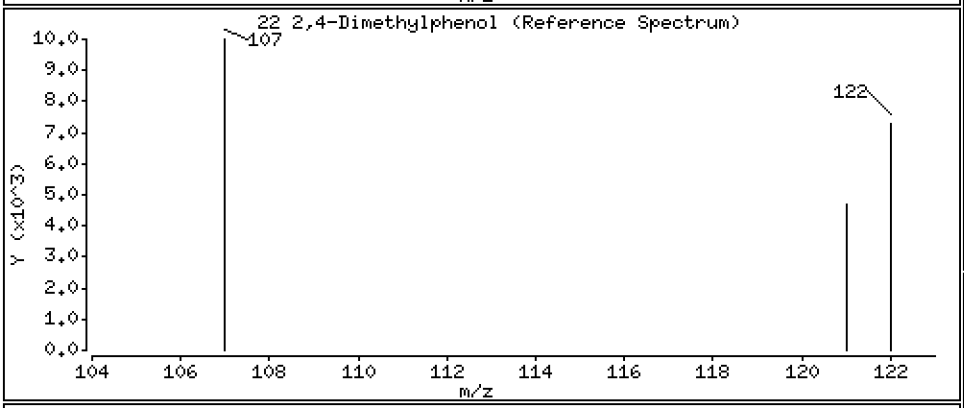
Concentration: 5.661 ug/L

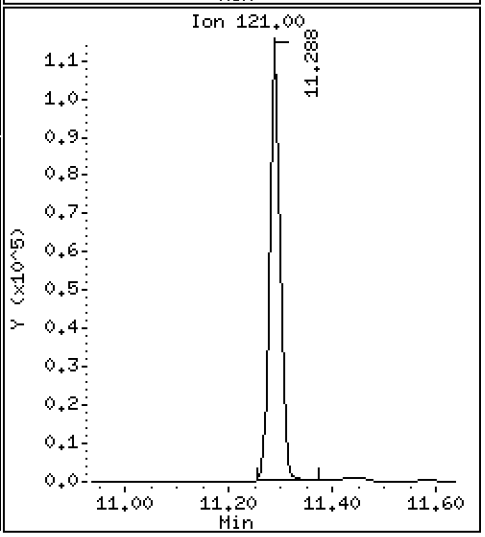


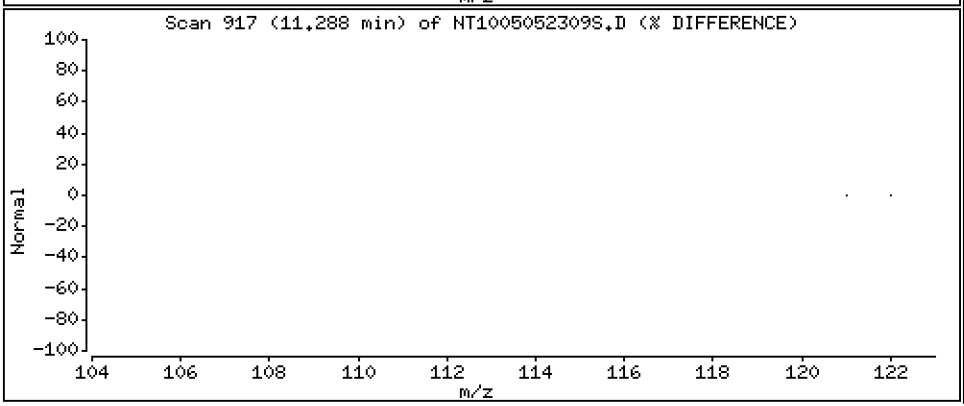












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523095.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

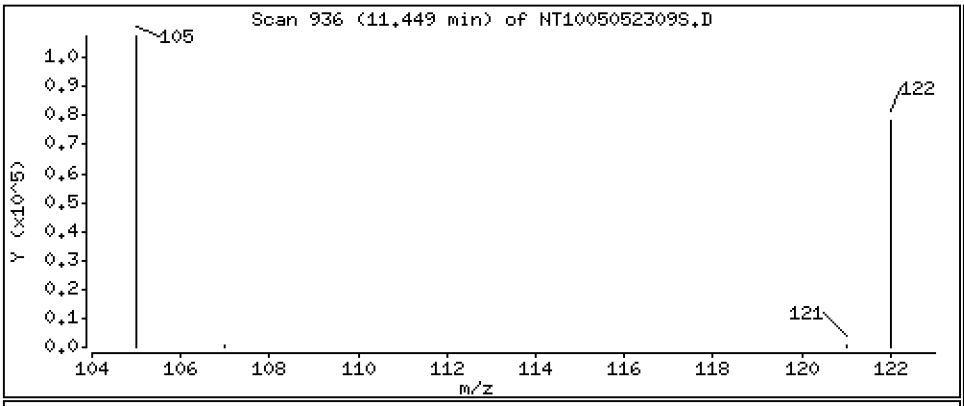
Operator: DSD

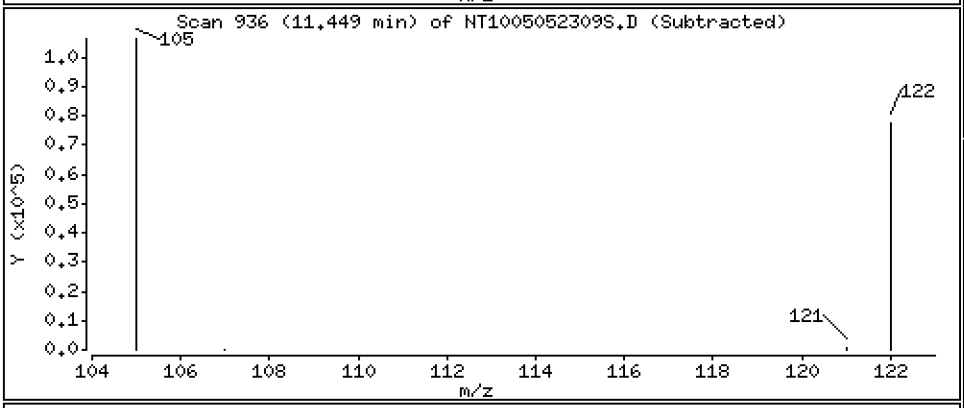
Column phase: ZB-5msi

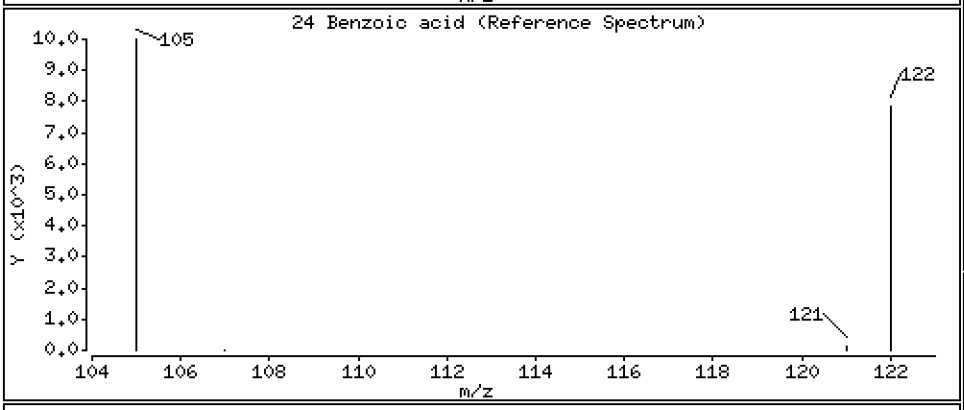
Column diameter: 0.25

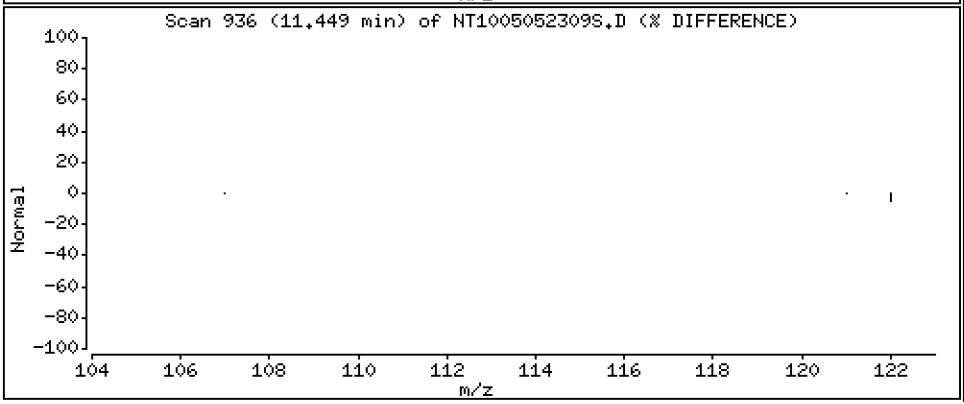
24 Benzoic acid

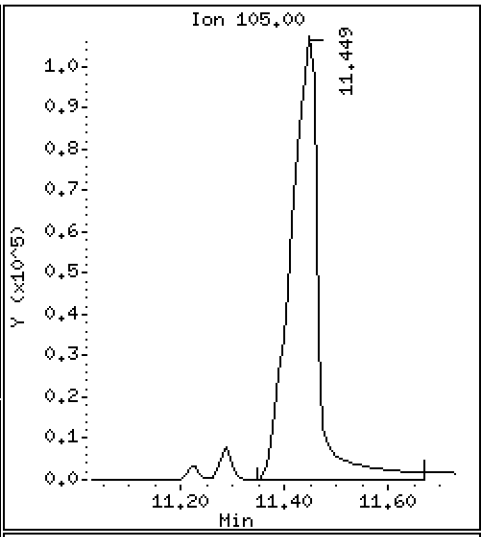
Concentration: 9.432 ug/L

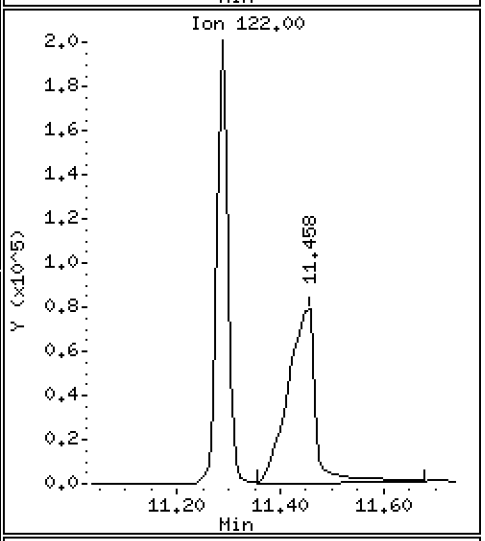


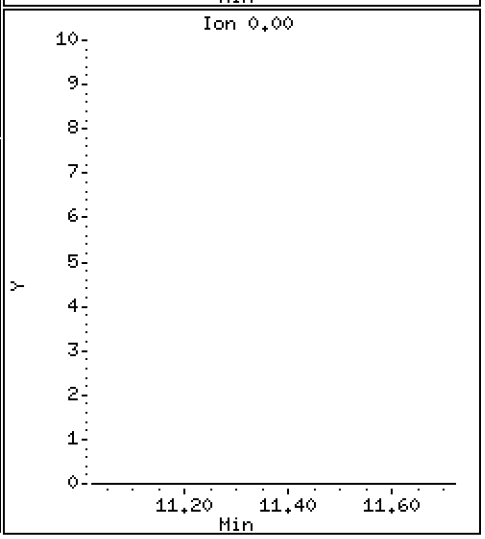












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

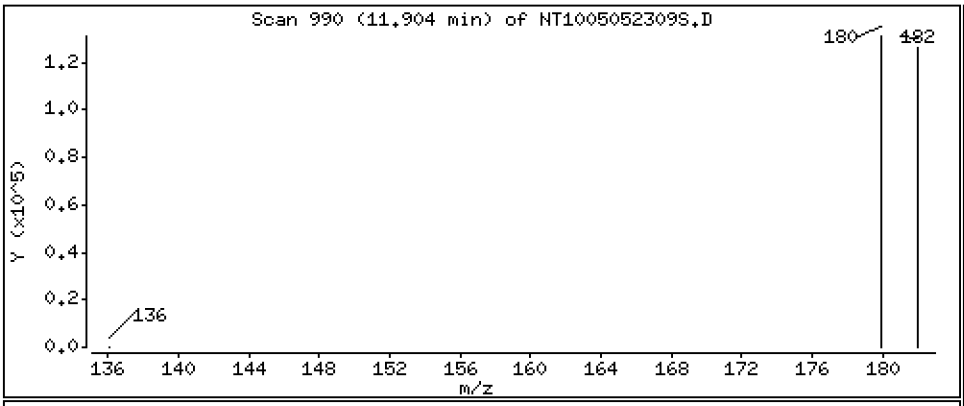
Operator: DSD

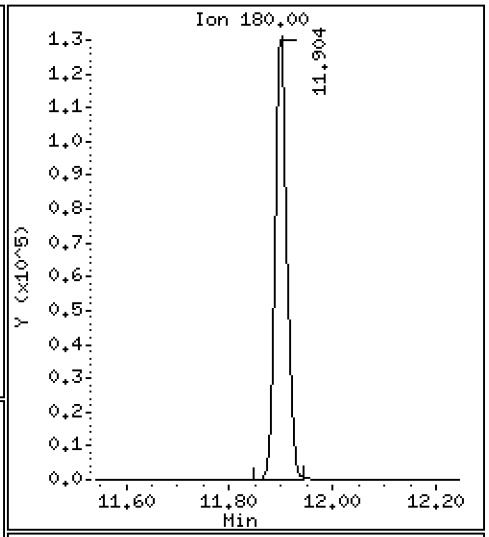
Column phase: ZB-5msi

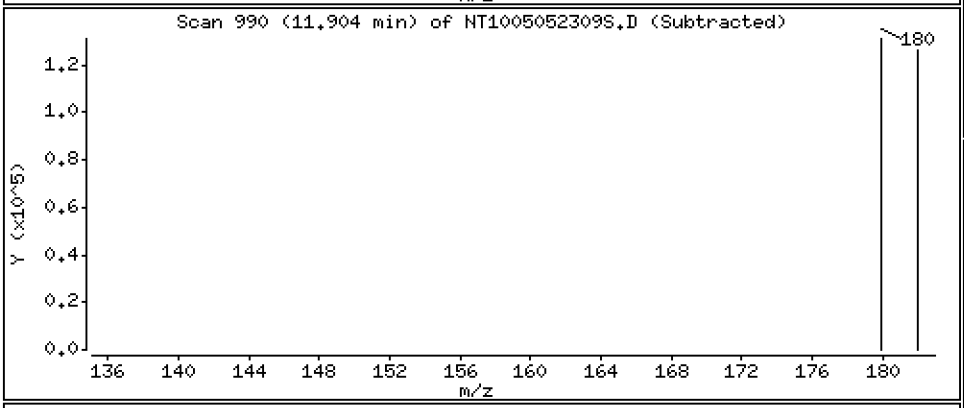
Column diameter: 0.25

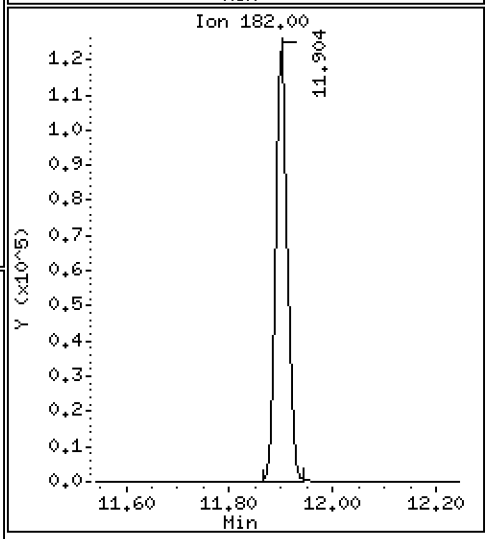
26 1,2,4-Trichlorobenzene

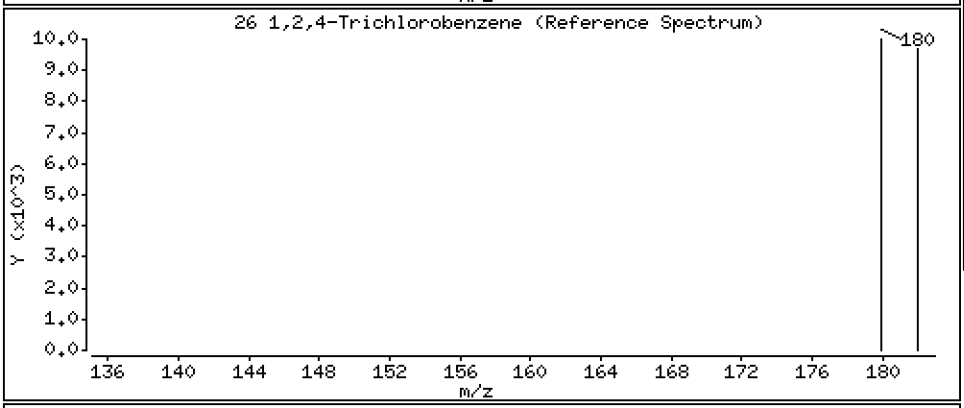
Concentration: 3.212 ug/L

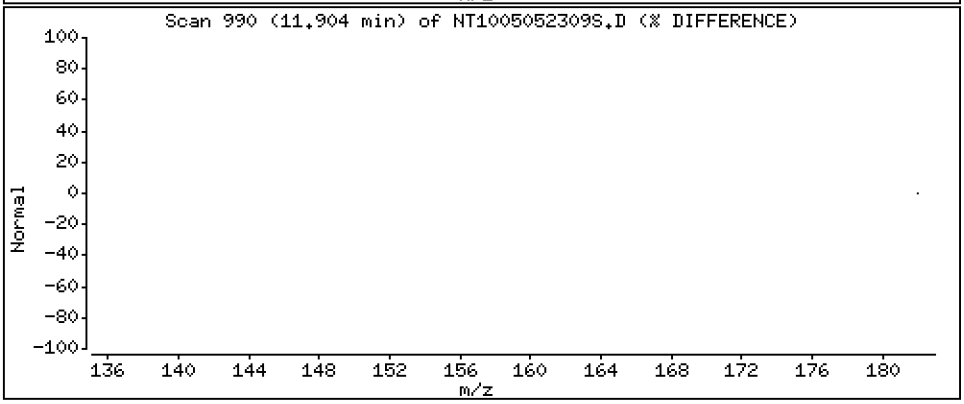












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

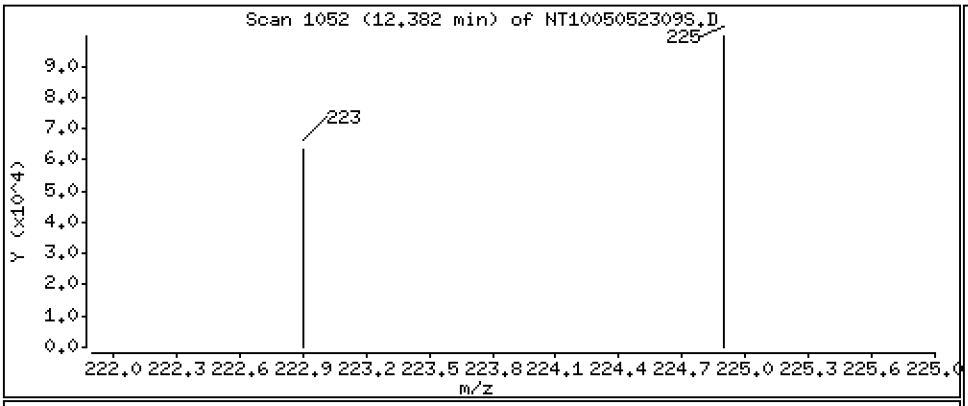
Operator: DSD

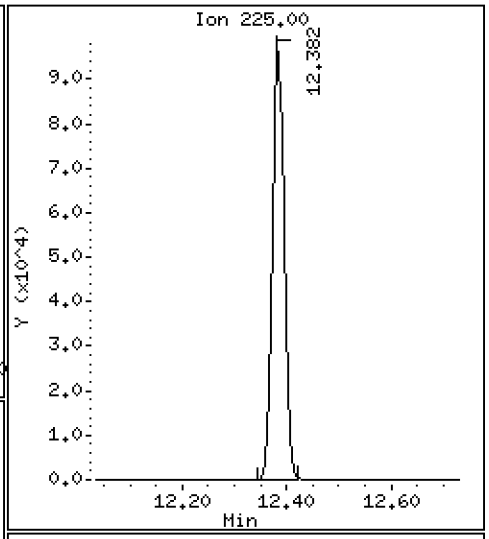
Column phase: ZB-5msi

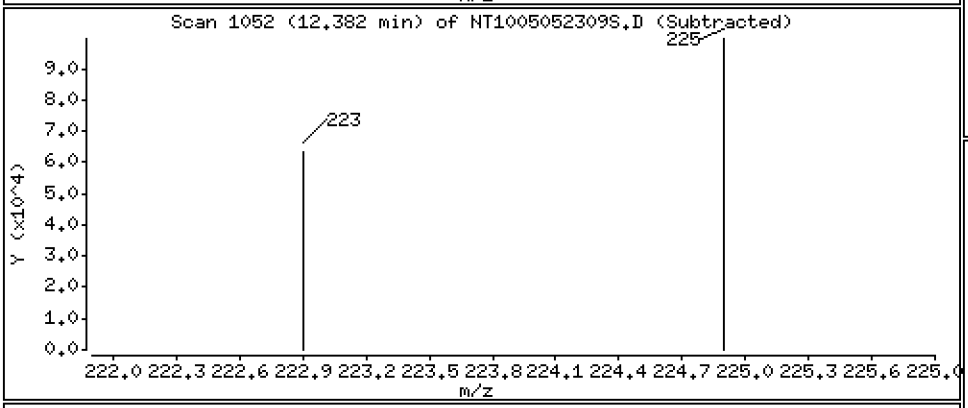
Column diameter: 0.25

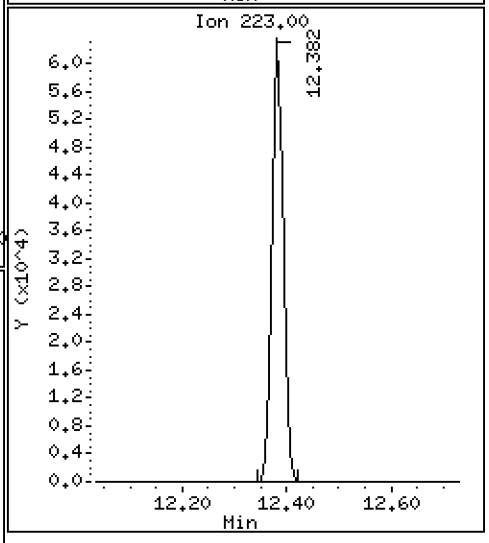
30 Hexachlorobutadiene

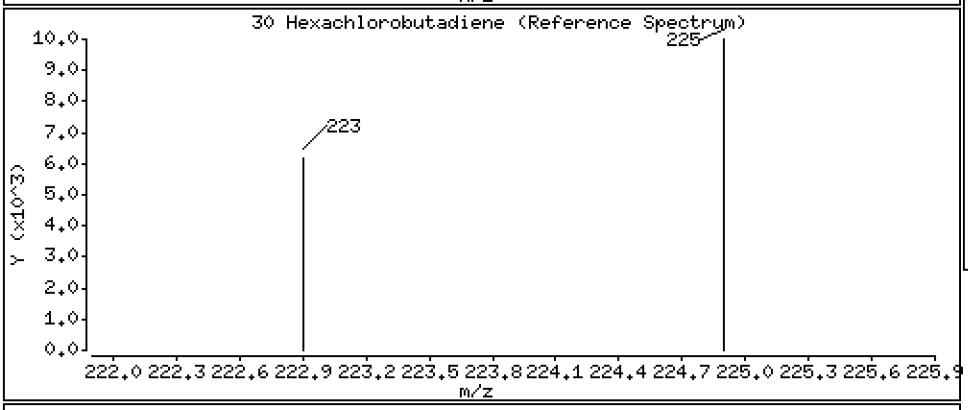
Concentration: 3.405 ug/L

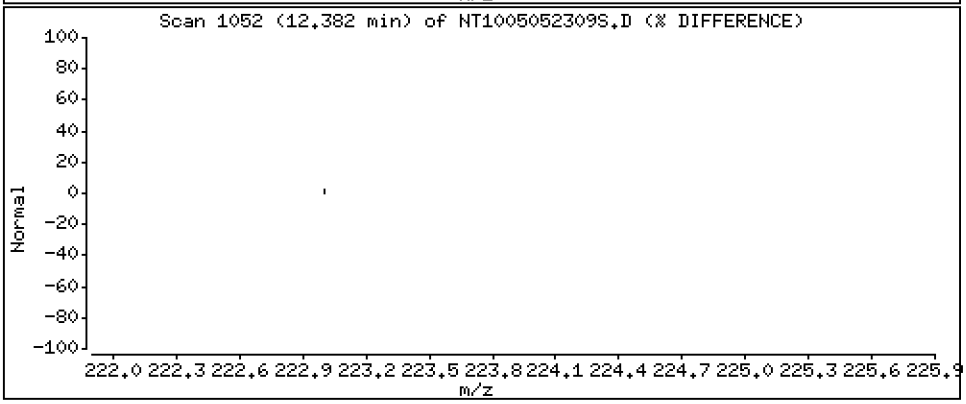












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

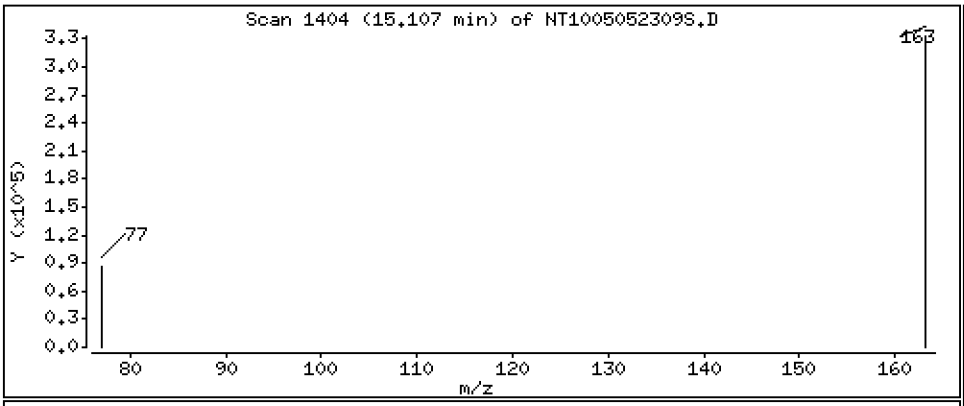
Operator: DSD

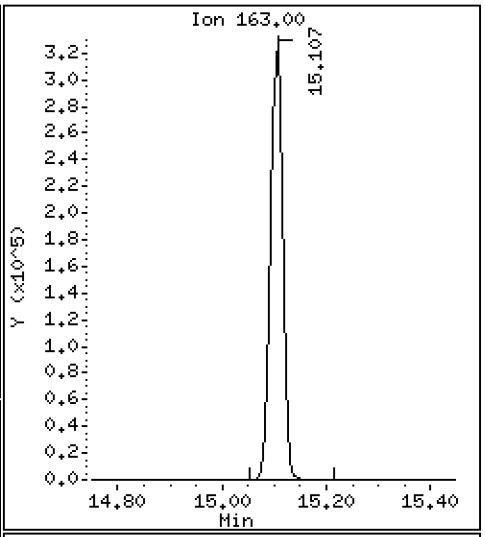
Column phase: ZB-5msi

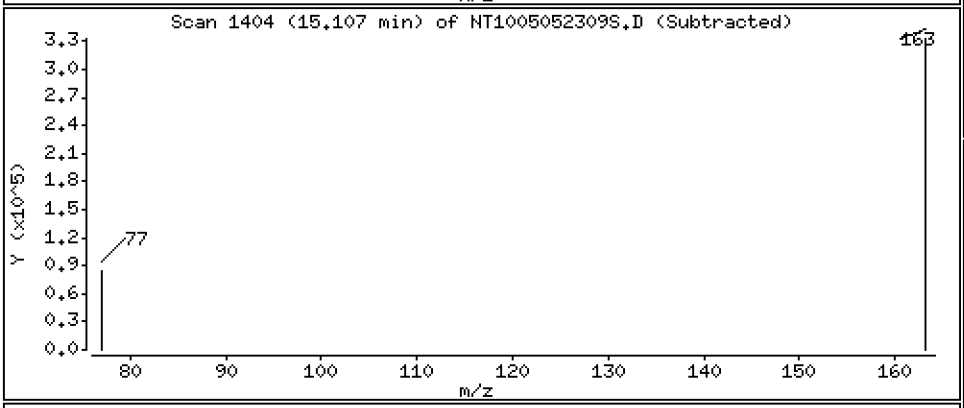
Column diameter: 0.25

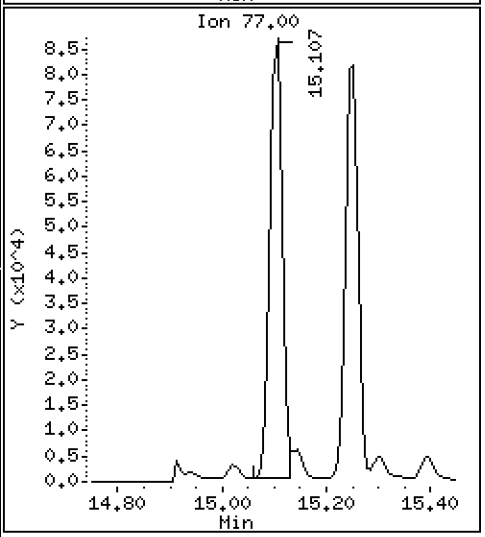
39 Dimethylphthalate

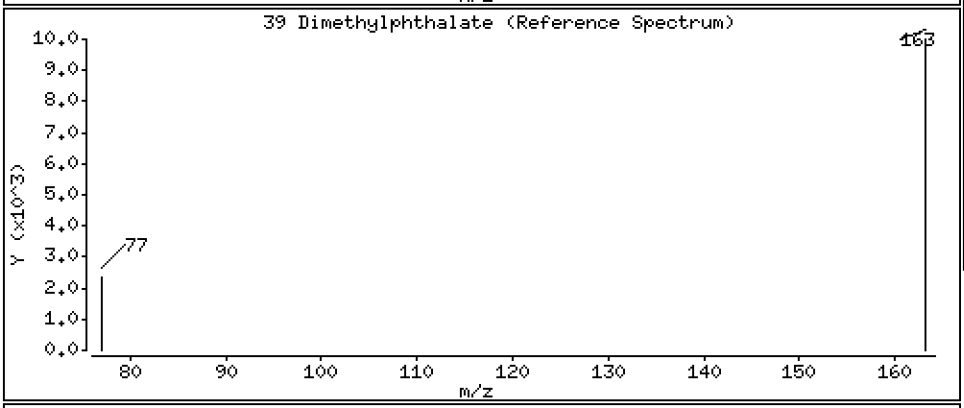
Concentration: 3.988 ug/L

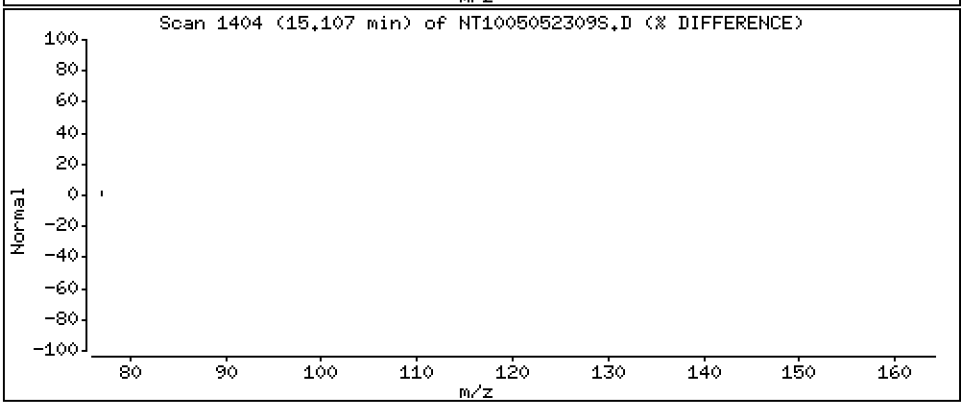












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

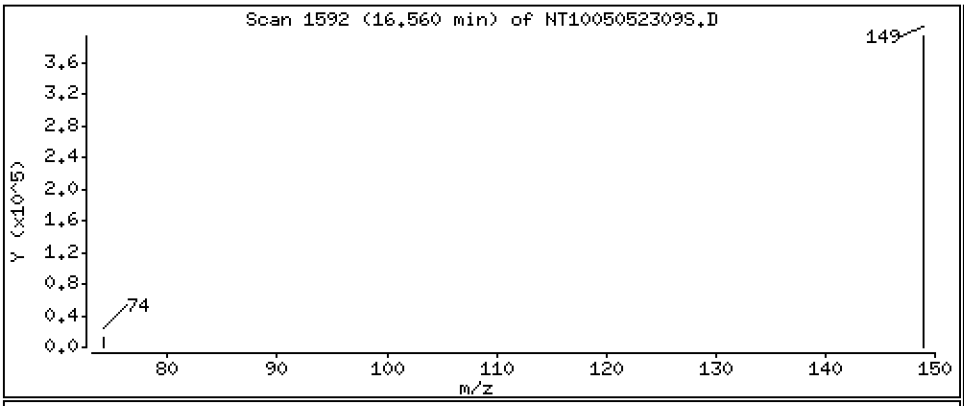
Operator: DSD

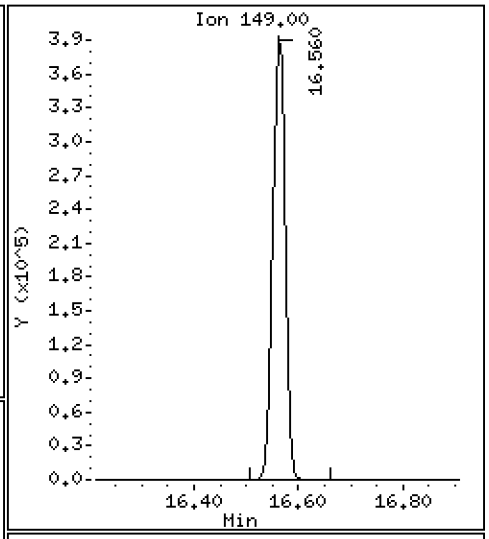
Column phase: ZB-5msi

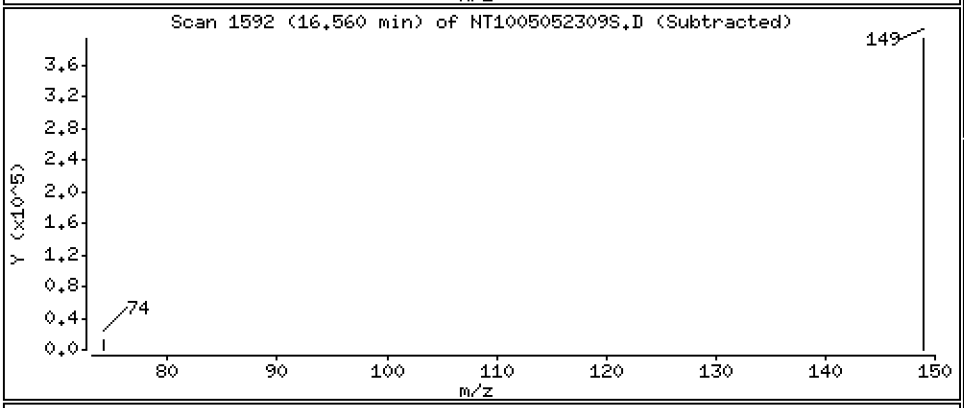
Column diameter: 0.25

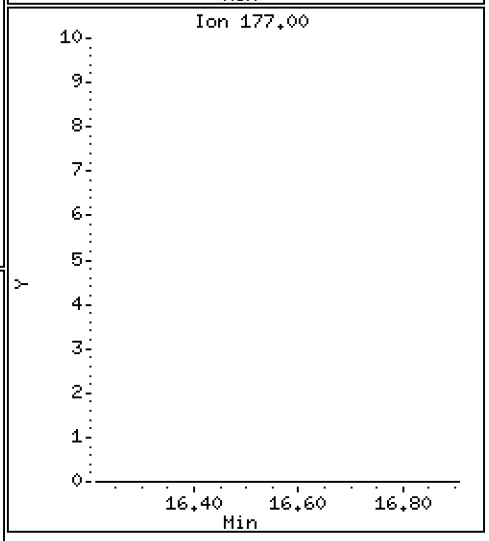
50 Diethylphthalate

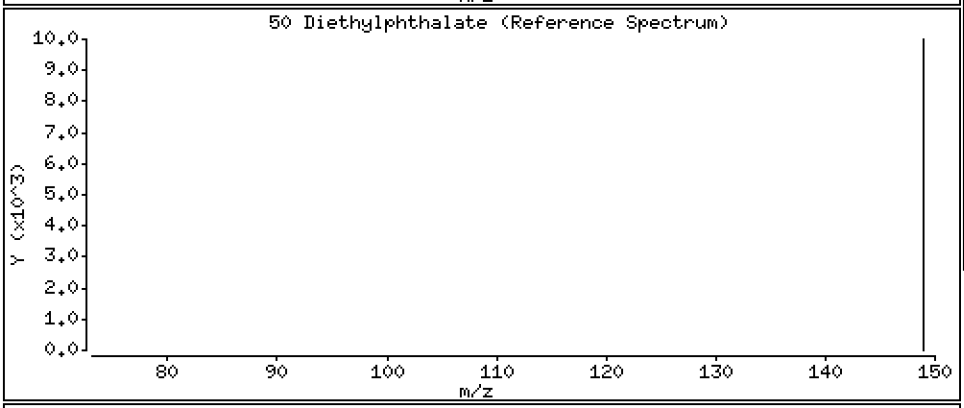
Concentration: 4.589 ug/L

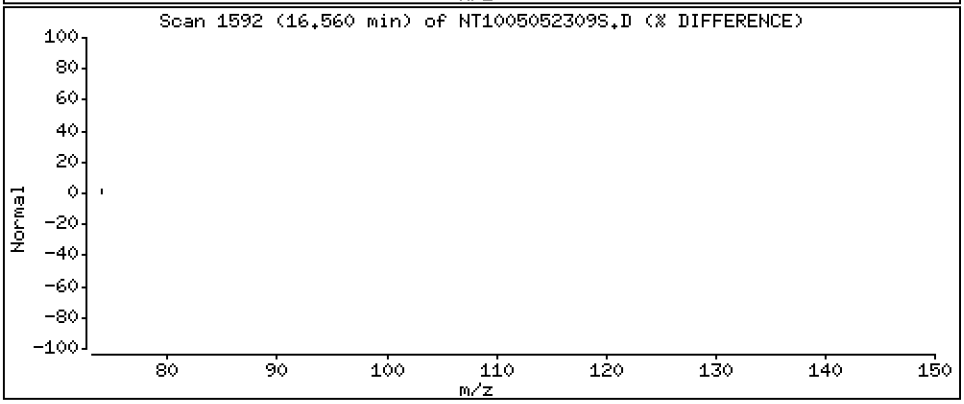












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

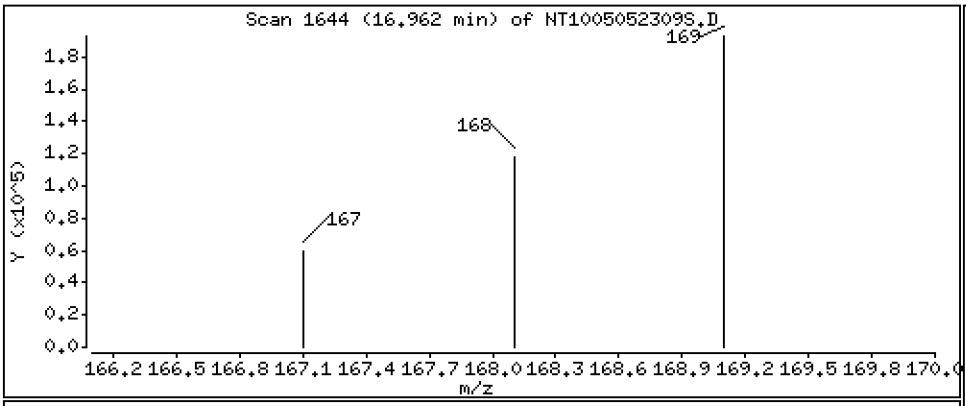
Operator: DSD

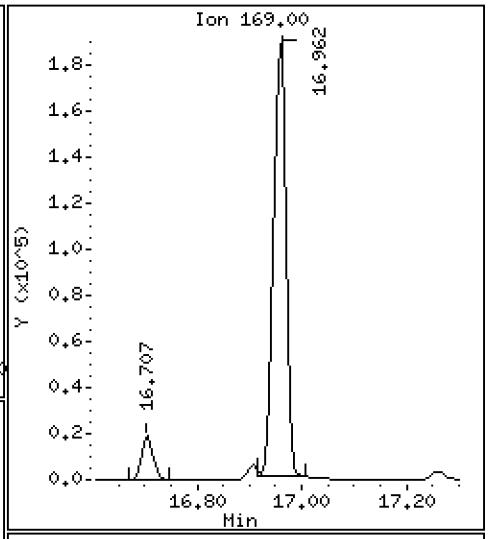
Column phase: ZB-5msi

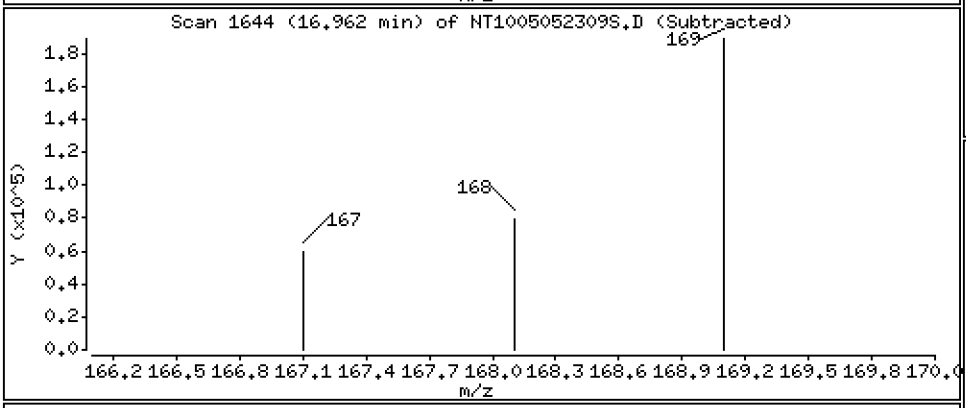
Column diameter: 0.25

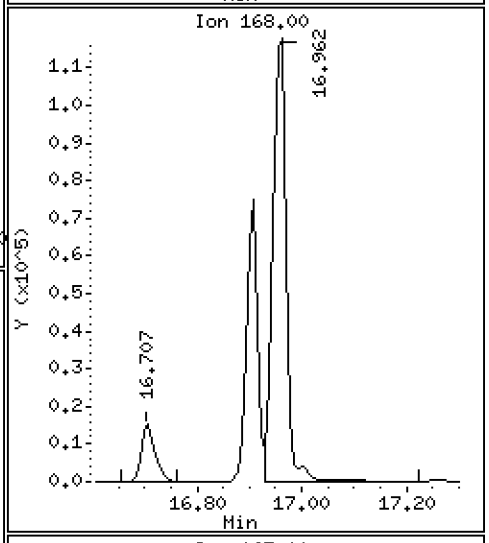
54 N-Nitrosodiphenylamine

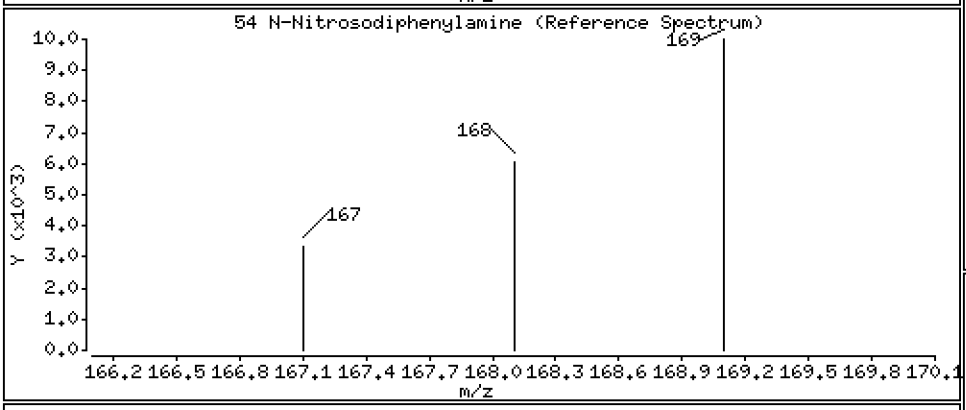
Concentration: 3.568 ug/L

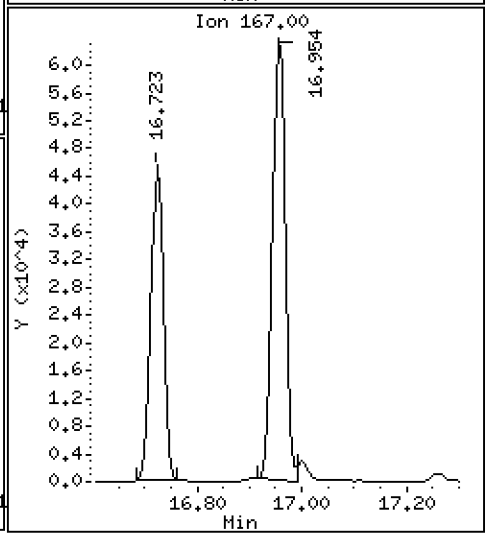


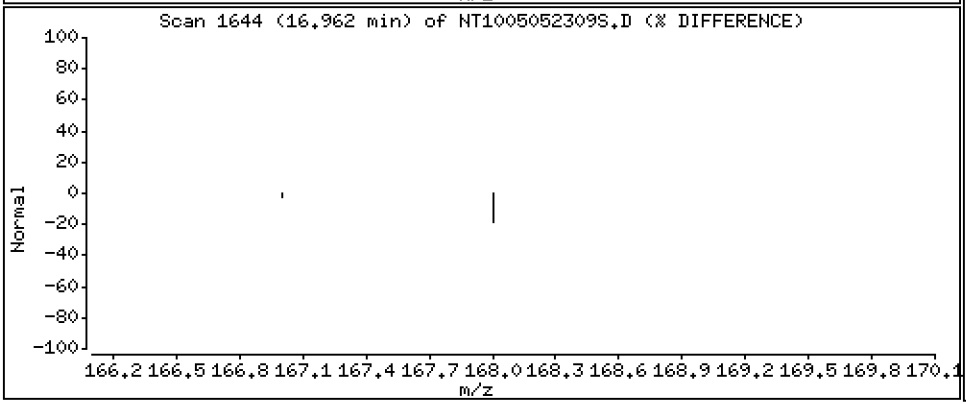












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

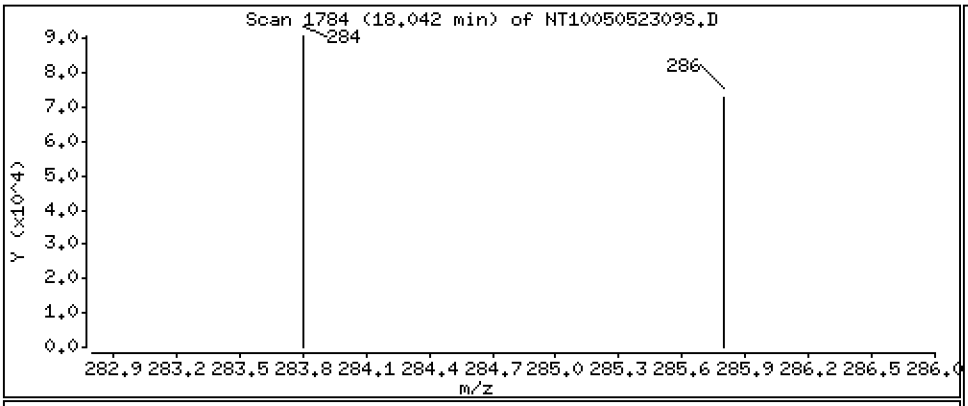
Operator: DSD

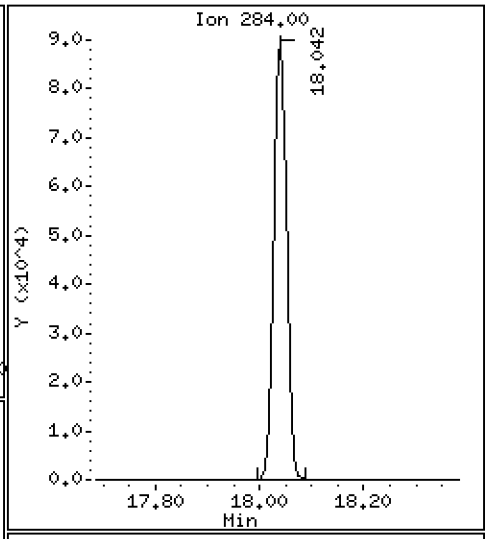
Column phase: ZB-5msi

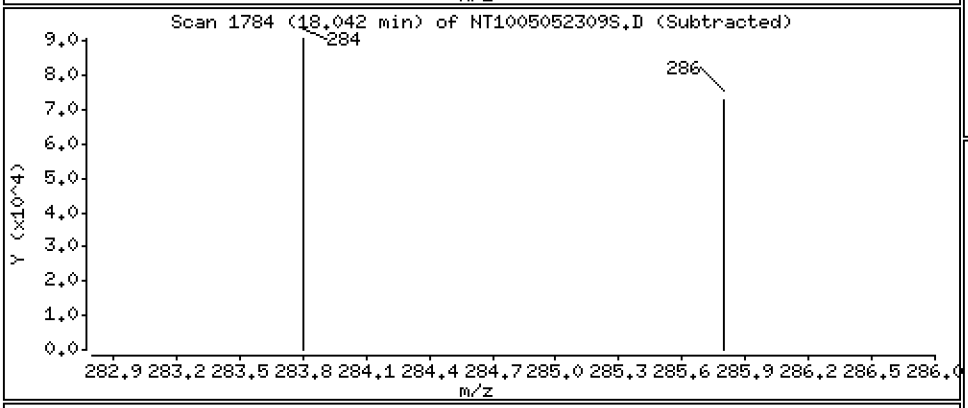
Column diameter: 0.25

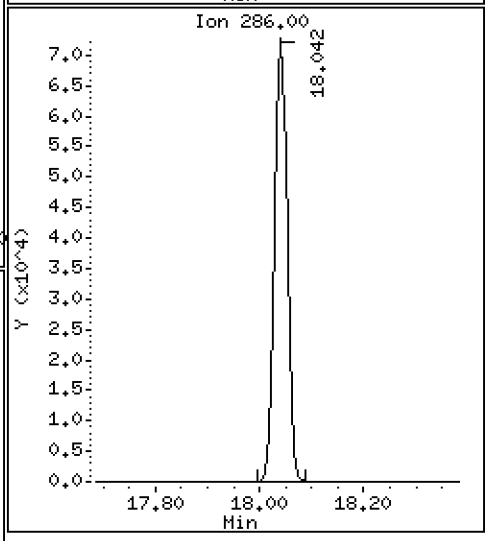
57 Hexachlorobenzene

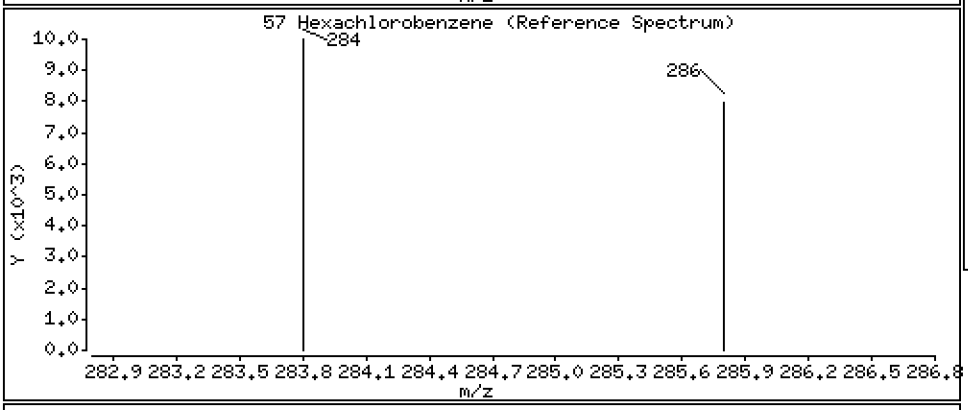
Concentration: 3.501 ug/L

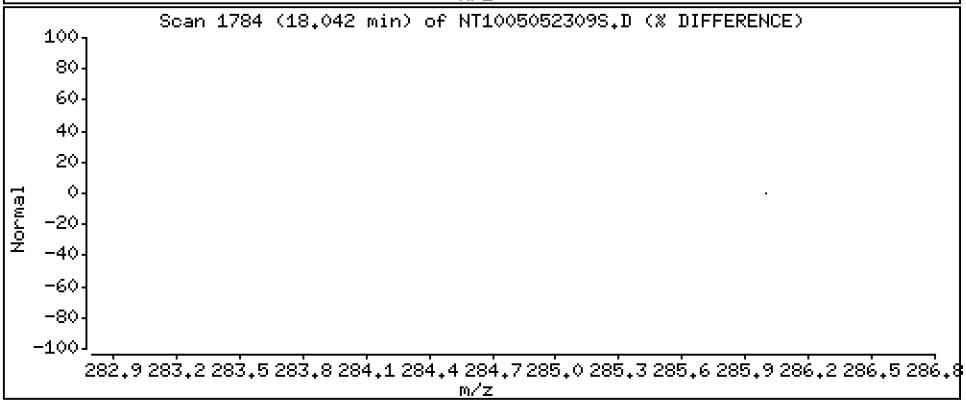












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

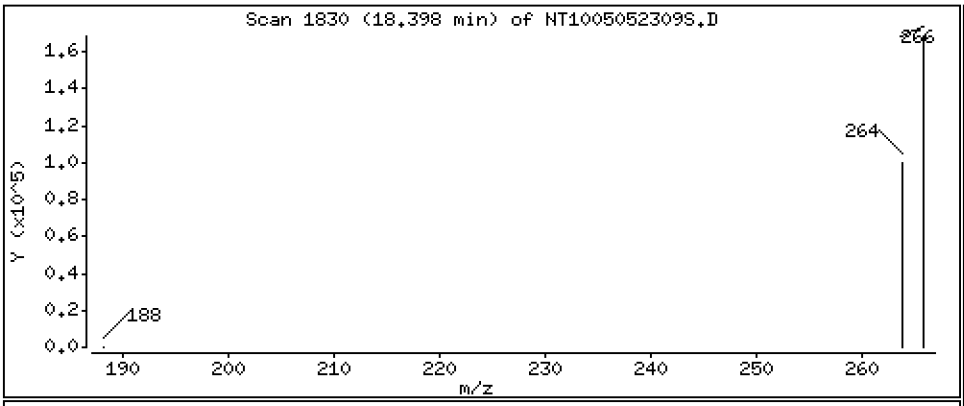
Operator: DSD

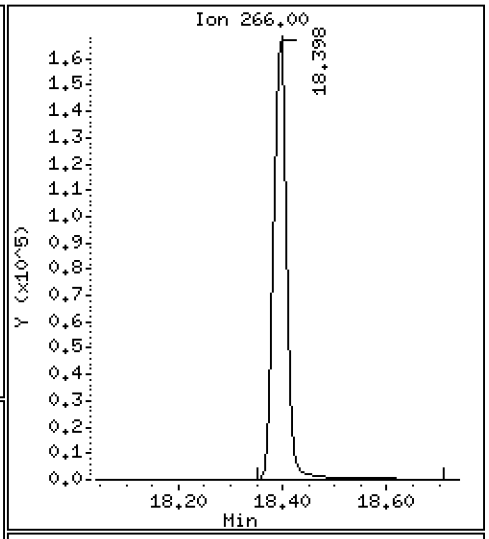
Column phase: ZB-5msi

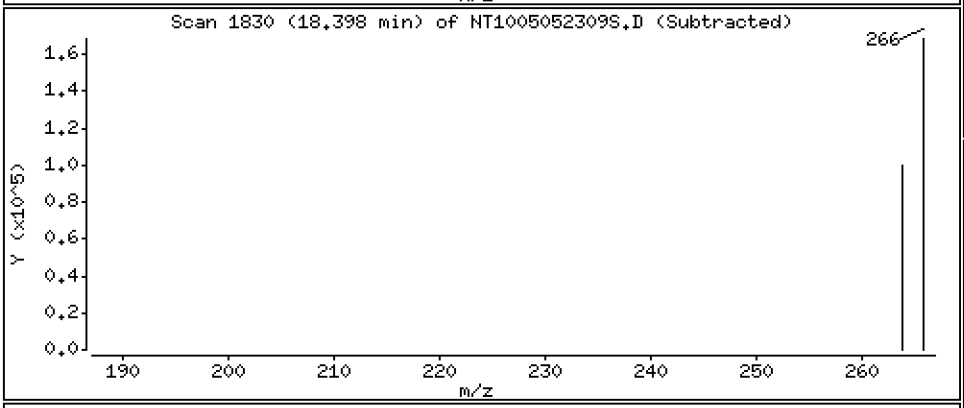
Column diameter: 0.25

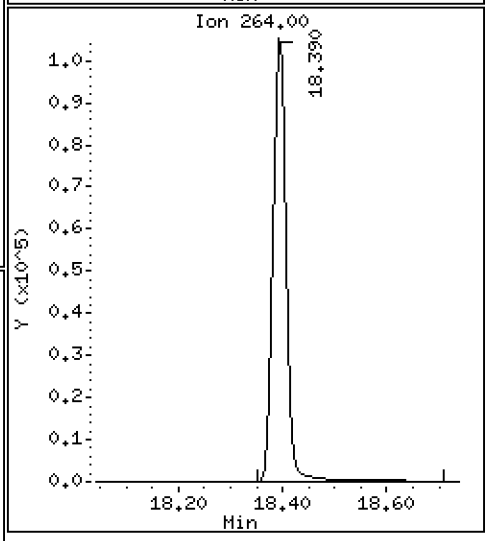
58 Pentachlorophenol

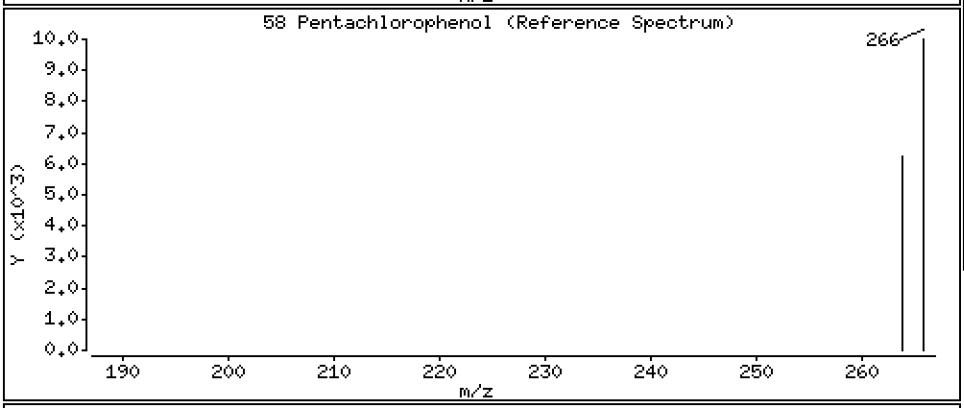
Concentration: 10.42 ug/L

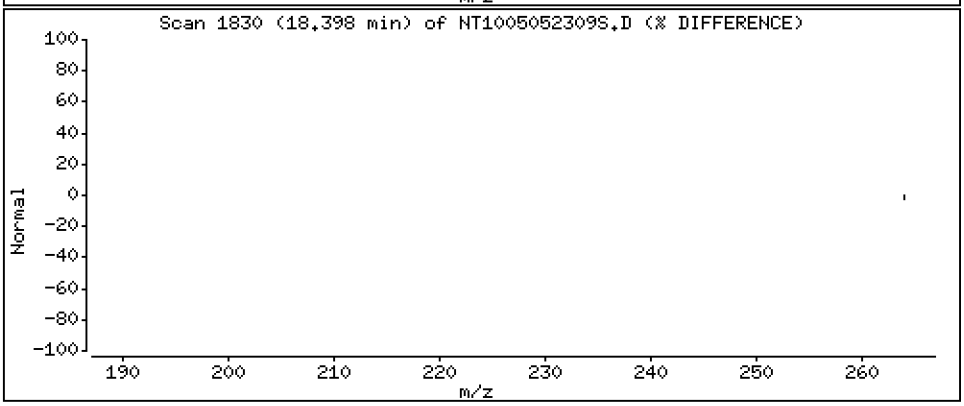












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

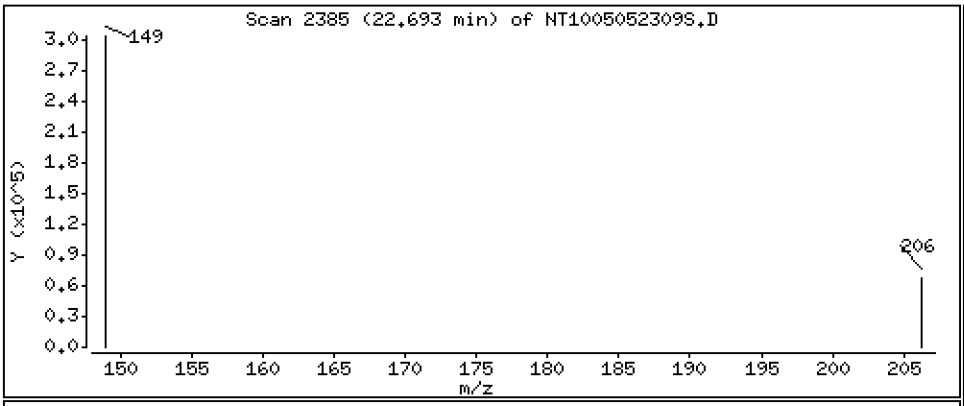
Operator: DSD

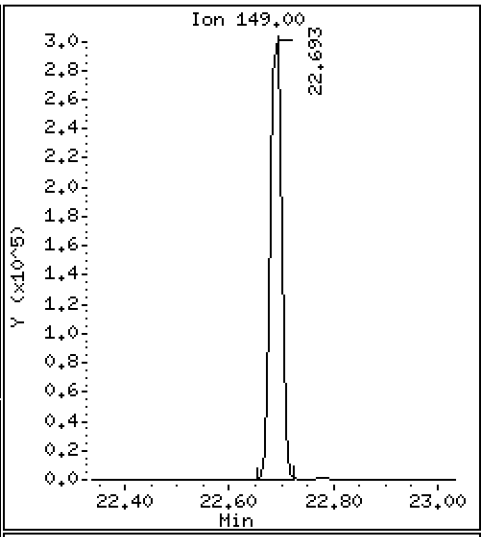
Column phase: ZB-5msi

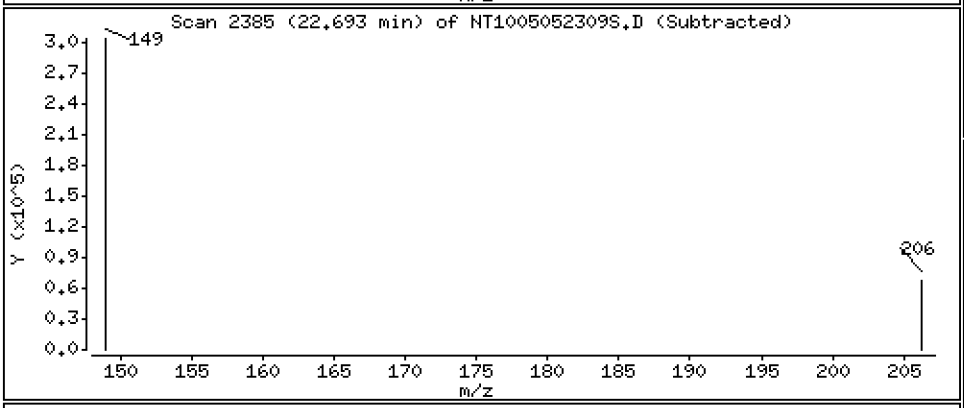
Column diameter: 0.25

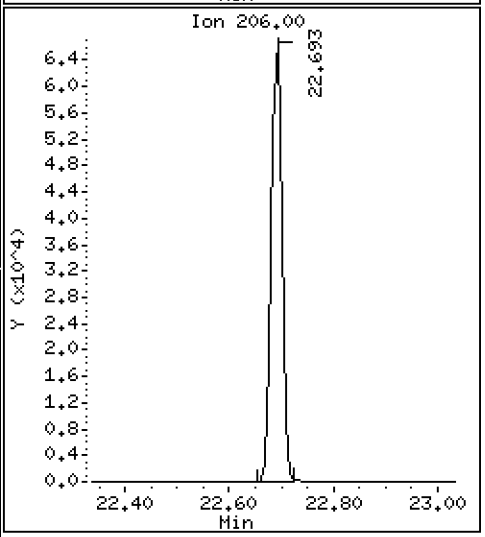
67 Butylbenzylphthalate

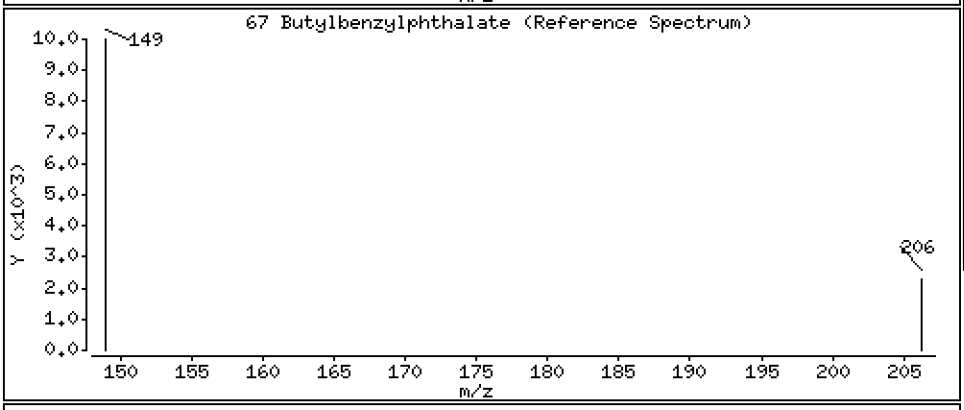
Concentration: 4.244 ug/L

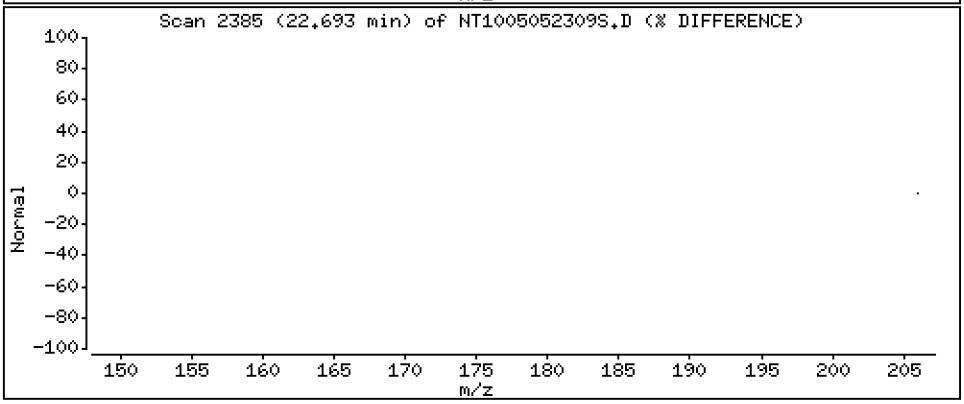












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

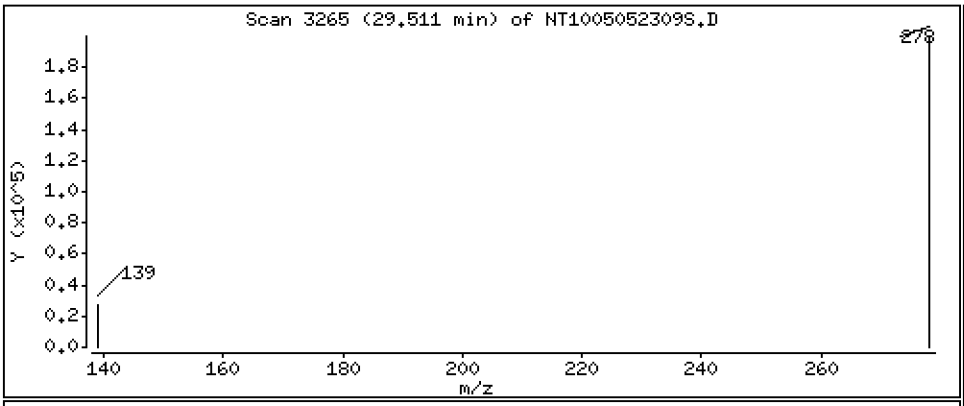
Operator: DSD

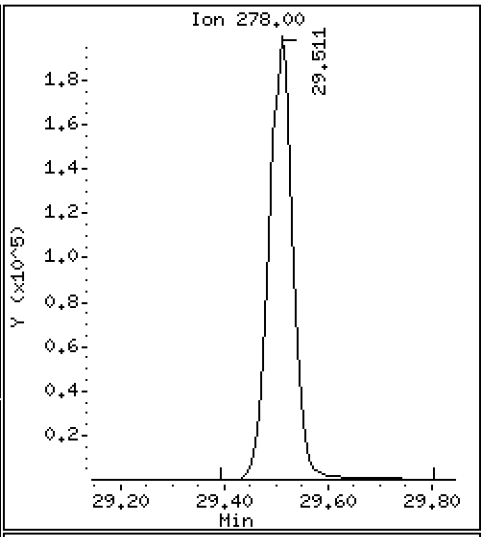
Column phase: ZB-5msi

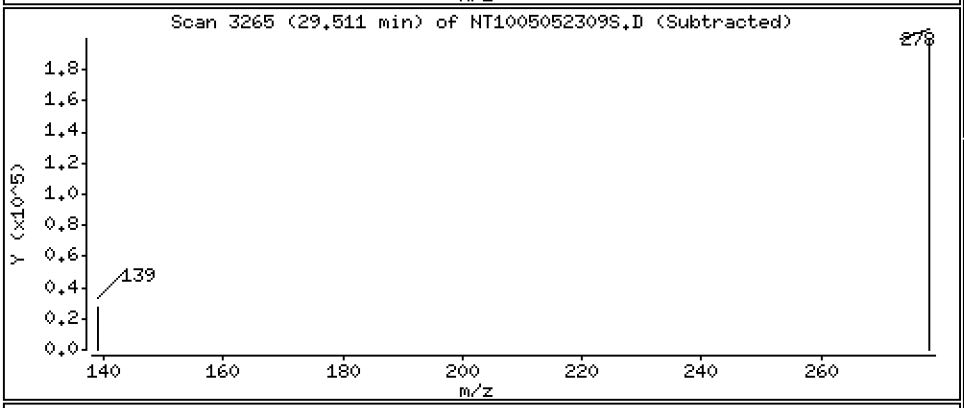
Column diameter: 0.25

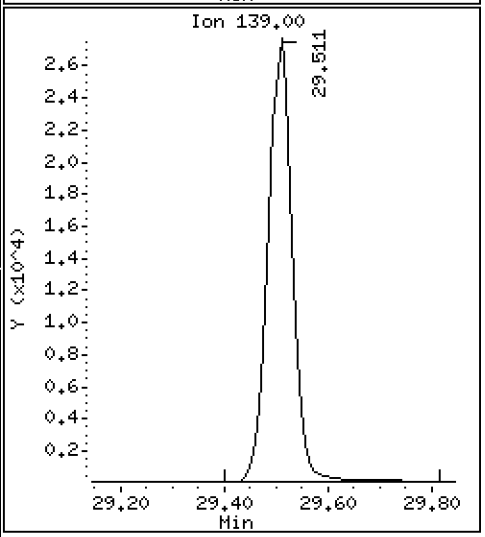
79 Dibenzo(a,h)anthracene

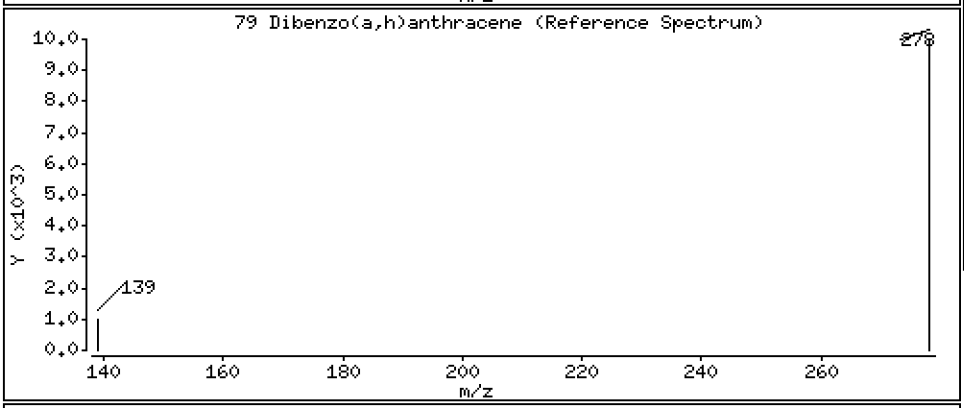
Concentration: 4.280 ug/L

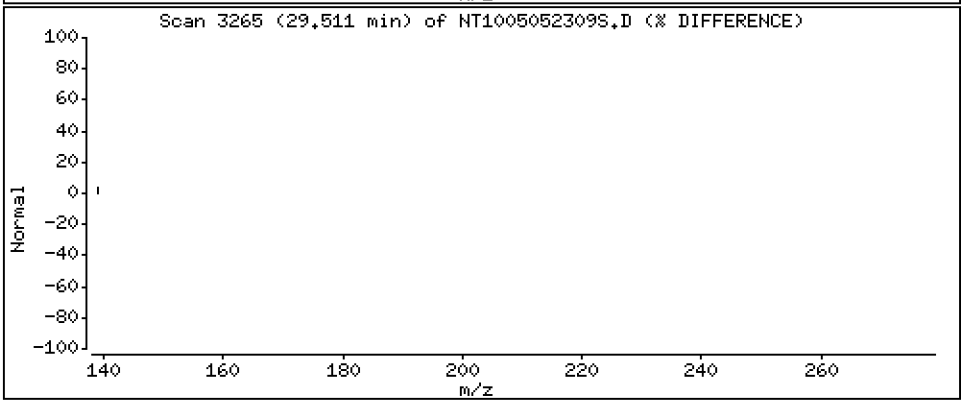












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D

Date : 05-MAY-2023 15:57

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-BSD2

Volume Injected (uL): 1.0

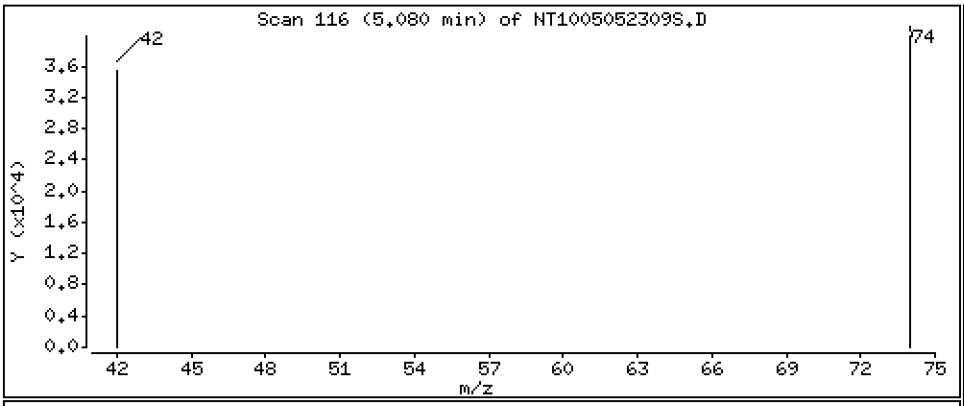
Operator: DSD

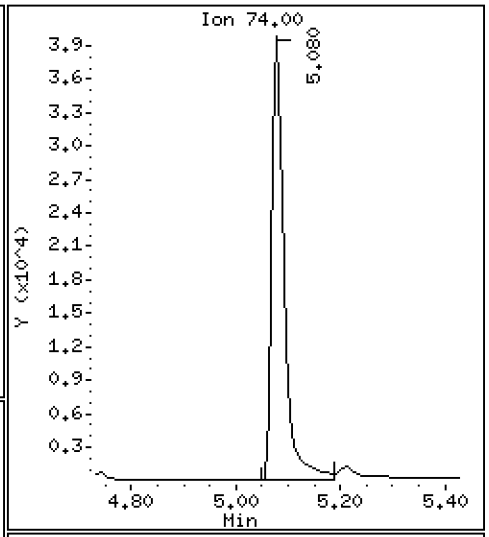
Column phase: ZB-5msi

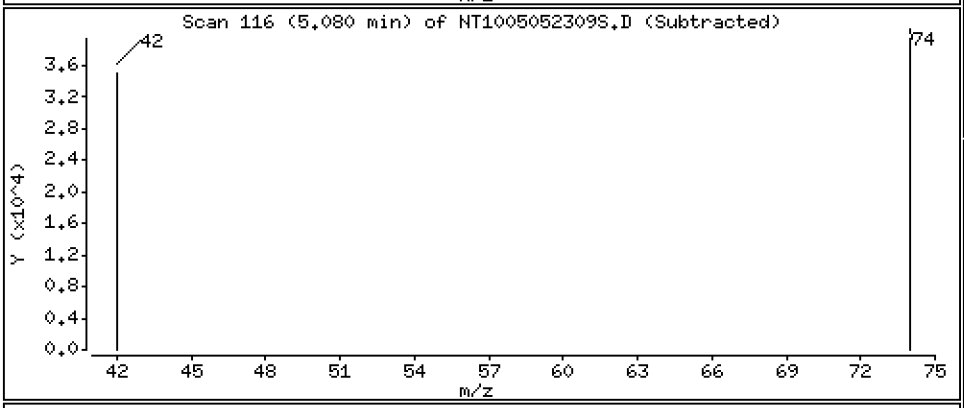
Column diameter: 0.25

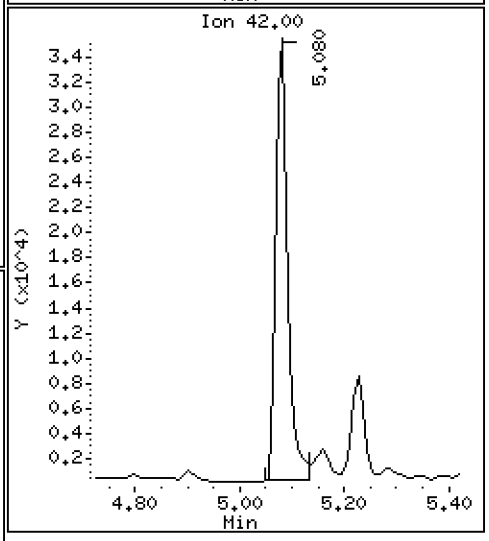
90 N-Nitrosodimethylamine

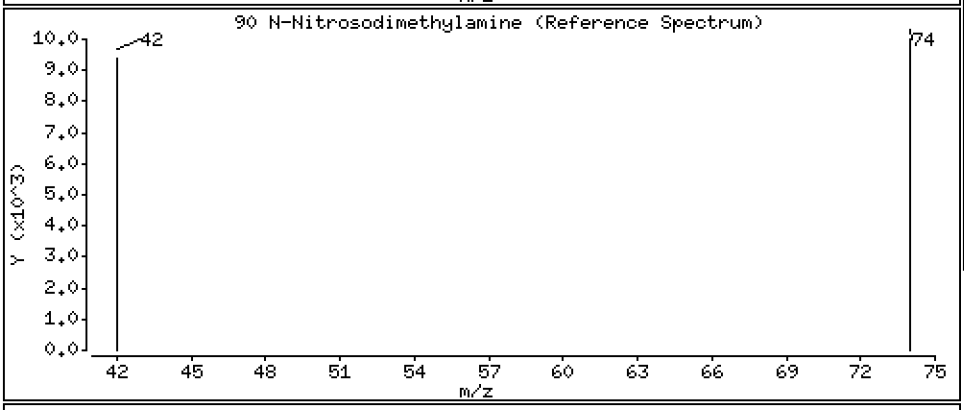
Concentration: 2.139 ug/L

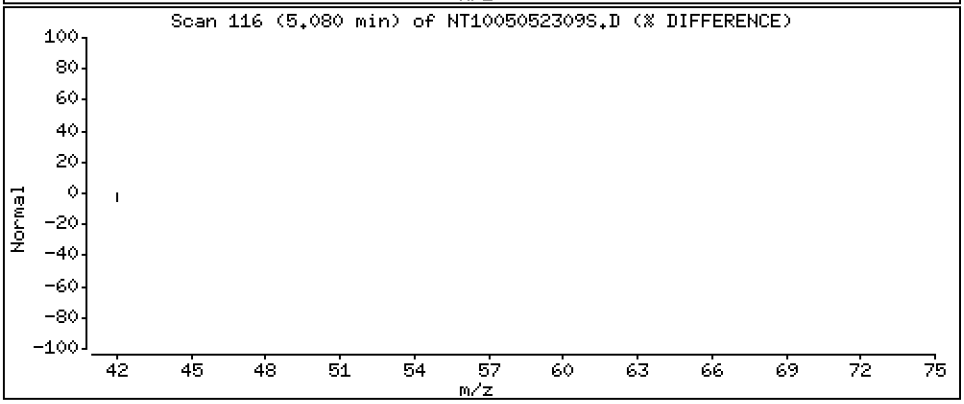












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052309S.D
Lab Smp Id: BLD0329-BSD2
Inj Date : 05-MAY-2023 15:57 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0329-BSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.762)	204120	3.86512	3.865(R)
3	Phenol	94	8.850	8.842	(0.932)	172138	2.60215	2.602
7	1,3-Dichlorobenzene	146	9.429	9.430	(0.993)	220576	3.17050	3.171
* 8	1,4-Dichlorobenzene-d4	152	9.499	9.492	(1.000)	173364	4.00000	
9	1,4-Dichlorobenzene	146	9.522	9.523	(1.002)	220556	3.20088	3.201
11	Benzyl alcohol	79	9.755	9.756	(1.027)	176487	3.85786	3.858
12	1,2-Dichlorobenzene	146	9.887	9.880	(1.041)	217880	3.28754	3.288
13	2-Methylphenol	108	9.973	9.965	(1.050)	147520	2.97970	2.980
15	4-Methylphenol	108	10.244	10.237	(1.078)	170950	3.28401	3.284
16	N-Nitroso-di-n-propylamine	70	10.314	10.315	(1.086)	141760	3.77423	3.774
22	2,4-Dimethylphenol	107	11.287	11.288	(0.942)	357186	5.66129	5.661
24	Benzoic acid	105	11.449	11.381	(0.955)	401778	9.43168	9.432
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.993)	207933	3.21233	3.212
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	634980	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	140729	3.40506	3.405
39	Dimethylphthalate	163	15.106	15.099	(0.967)	500969	3.98761	3.988
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	331413	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	619063	4.58925	4.589
54	N-Nitrosodiphenylamine	169	16.961	16.954	(0.909)	301440	3.56778	3.568
57	Hexachlorobenzene	284	18.041	18.034	(0.966)	144868	3.50134	3.501

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.390	(0.985)	285295	10.4169	10.42
*	59 Phenanthrene-d10	188	18.668	18.669	(1.000)	647855	4.00000	
$	66 Terphenyl-d14	244	21.771	21.771	(0.919)	486892	4.18358	4.184(R)
	67 Butylbenzylphthalate	149	22.692	22.685	(0.958)	421099	4.24372	4.244
*	69 Chrysene-d12	240	23.691	23.684	(1.000)	539738	4.00000	
*	77 Perylene-d12	264	26.532	26.517	(1.000)	462376	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.511	29.496	(1.112)	638752	4.27971	4.280
	90 N-Nitrosodimethylamine	74	5.080	5.080	(0.535)	61638	2.13948	2.139

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052309S.D
Lab Smp Id: BLD0329-BSD2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	173364	-5.11
27 Naphthalene-d8	662220	331110	1324440	634980	-4.11
42 Acenaphthene-d10	335558	167779	671116	331413	-1.24
59 Phenanthrene-d10	678190	339095	1356380	647855	-4.47
69 Chrysene-d12	566969	283485	1133938	539738	-4.80
77 Perylene-d12	522906	261453	1045812	462376	-11.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	-0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	-0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.67	-0.00
69 Chrysene-d12	23.68	23.18	24.18	23.69	0.03
77 Perylene-d12	26.52	26.02	27.02	26.53	0.06

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

REVIEW SUMMARY FOR FILE - NT1005052309S.D

Lab ID: BLD0329-BSD2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 15:57

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.955	0.949	0.0057	Benzoic acid

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1803

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 18:32
Batch:	BLD0329	Laboratory ID:	BLD0329-MS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	22.57 g / 1 mL	Source Sample:	LDW23-SS1803

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	2.2	J	283		56.2	36 - 120
1,2-Dichlorobenzene	500	ND	U	288		57.6	36 - 120
Benzyl Alcohol	500	301		582		56.1	25 - 123
Benzoic acid	2300	106	Q, J	955	Q	36.9	10 - 160
2,4-Dimethylphenol	1300	3.1	J	942		72.2	10 - 120
1,2,4-Trichlorobenzene	500	ND	U	294		58.9	35 - 120
N-Nitrosodiphenylamine	500	ND	U	363		72.6	27 - 120
Pentachlorophenol	1300	5.4	J	1090	Q	83.7	26 - 120

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/05/23 19:11
Batch:	BLD0329	Laboratory ID:	BLD0329-MSD2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	22.57 g / 1 mL	Source Sample:	LDW23-SS1803

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	295		58.5	4.05	30	36 - 120
1,2-Dichlorobenzene	500	300		60.0	4.01	30	36 - 120
Benzyl Alcohol	500	617		63.1	5.87	30	25 - 123
Benzoic acid	2300	987	Q	38.3	3.26	30	10 - 160
2,4-Dimethylphenol	1300	912		70.0	3.19	30	10 - 120
1,2,4-Trichlorobenzene	500	311		62.1	5.38	30	35 - 120
N-Nitrosodiphenylamine	500	390		78.0	7.24	30	27 - 120
Pentachlorophenol	1300	1120	Q	86.1	2.84	30	26 - 120

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523135.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

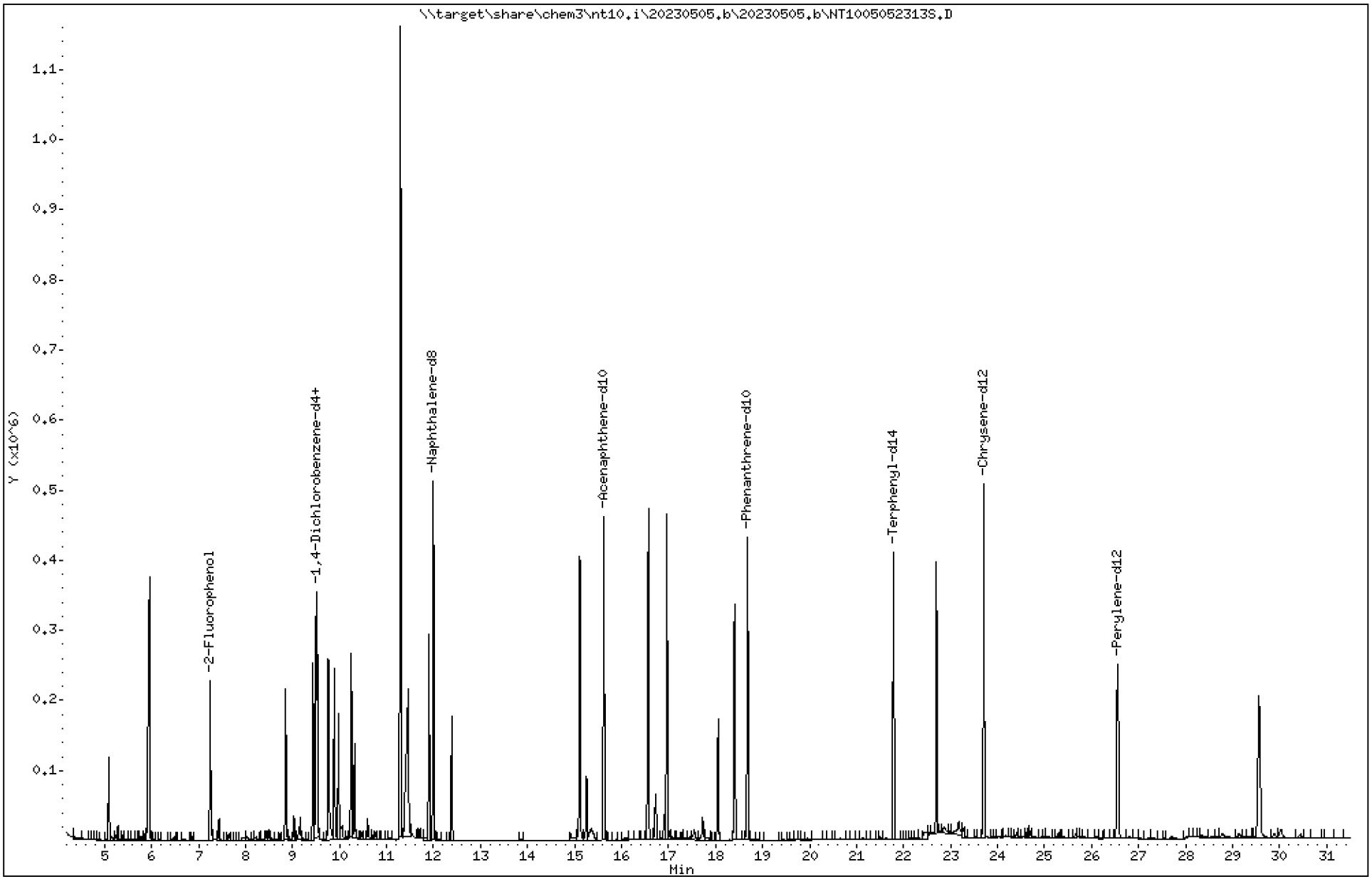
Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1612 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

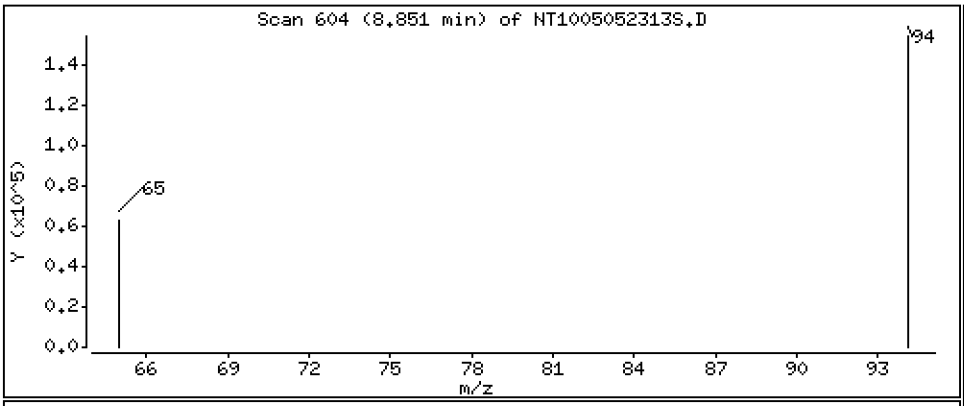
Operator: DSD

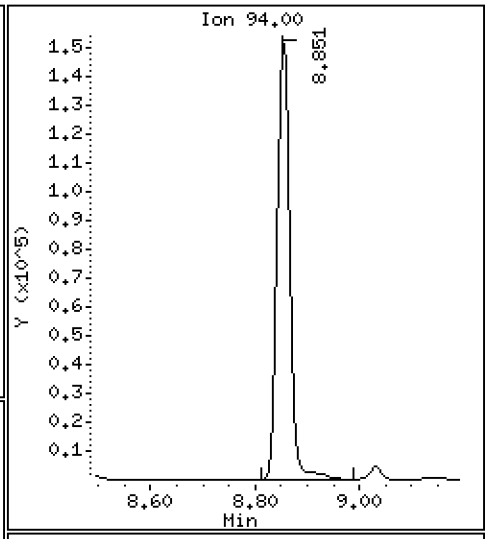
Column phase: ZB-5msi

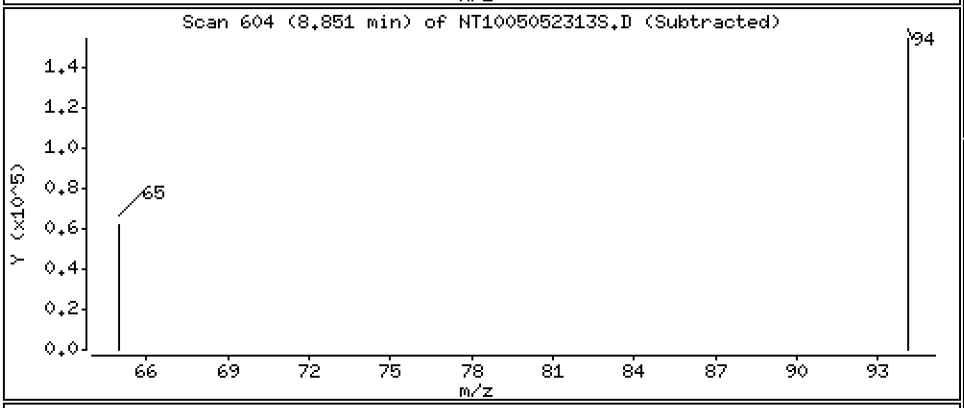
Column diameter: 0.25

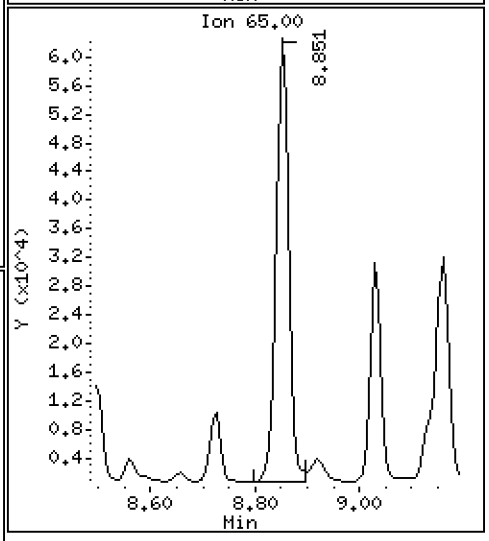
3 Phenol

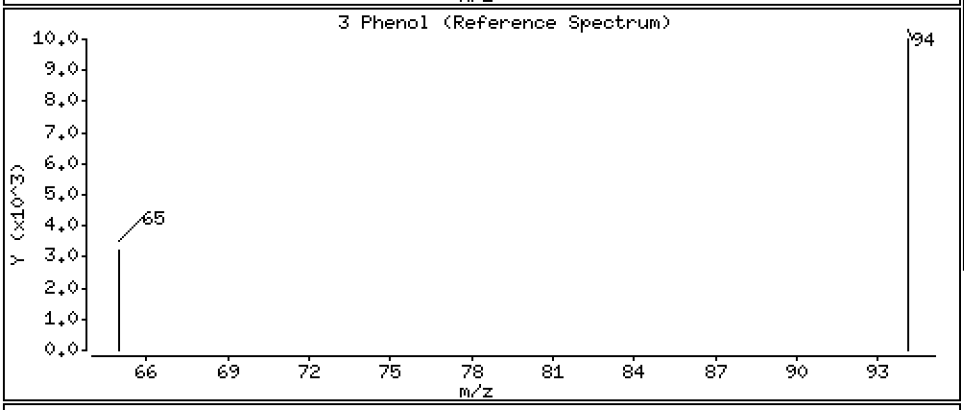
Concentration: 3.125 ug/L

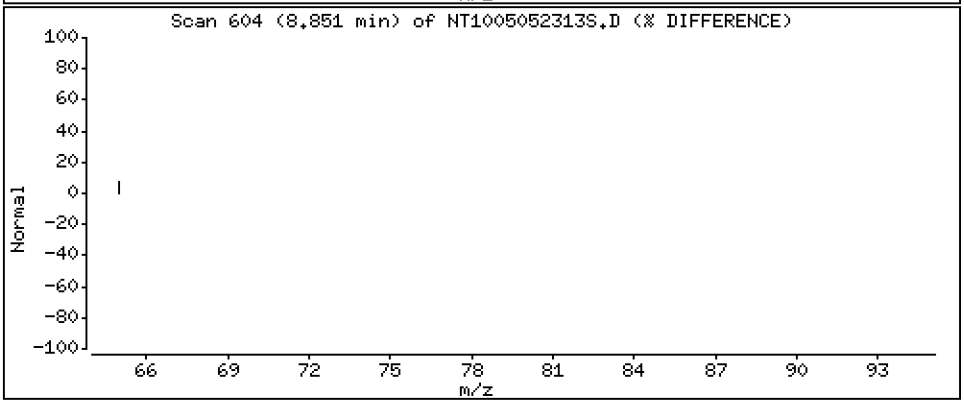












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

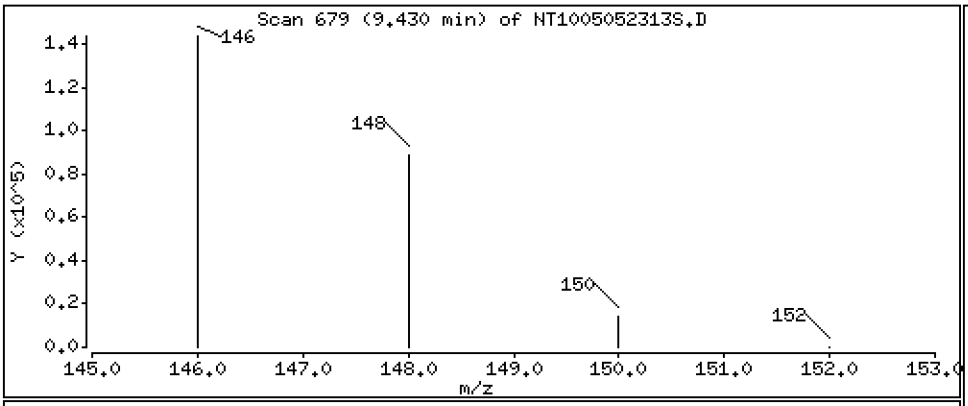
Operator: DSD

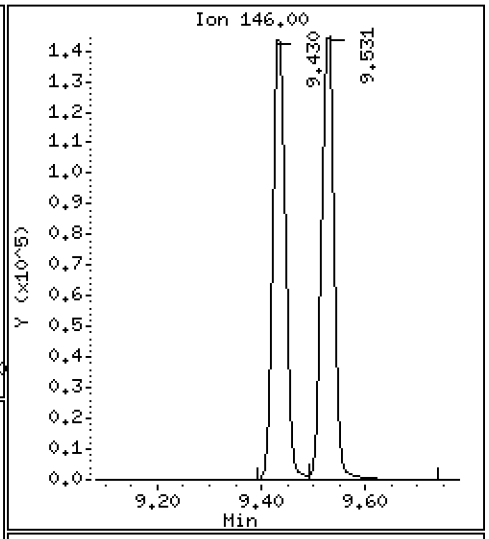
Column phase: ZB-5msi

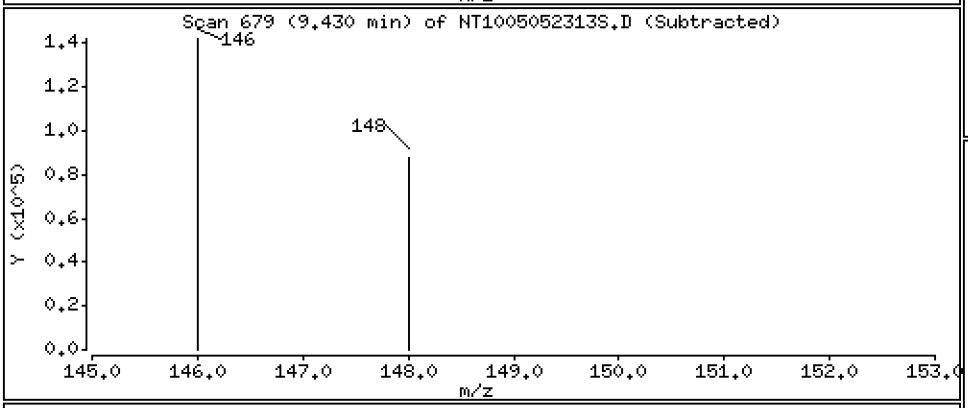
Column diameter: 0.25

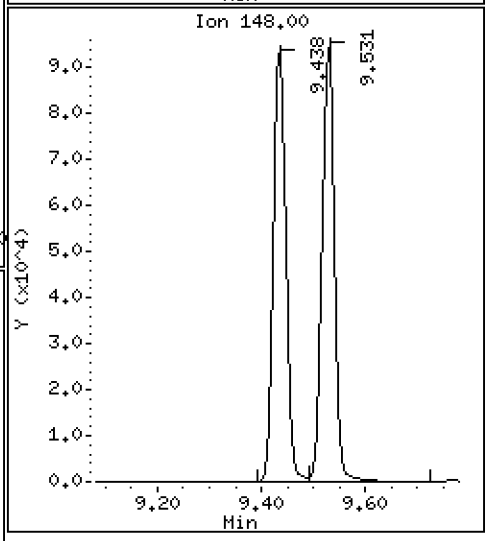
7 1,3-Dichlorobenzene

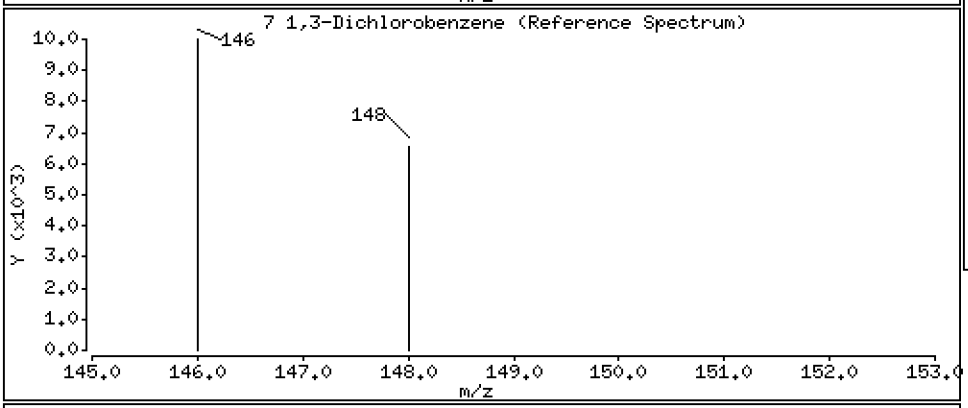
Concentration: 2.806 ug/L

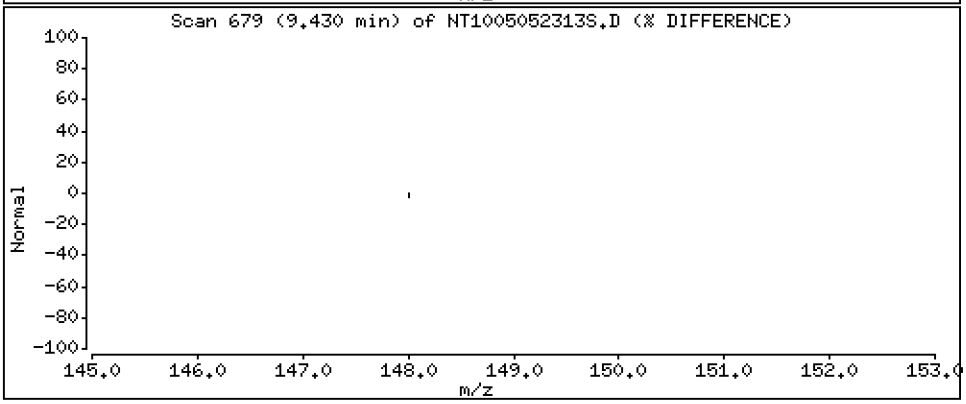












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

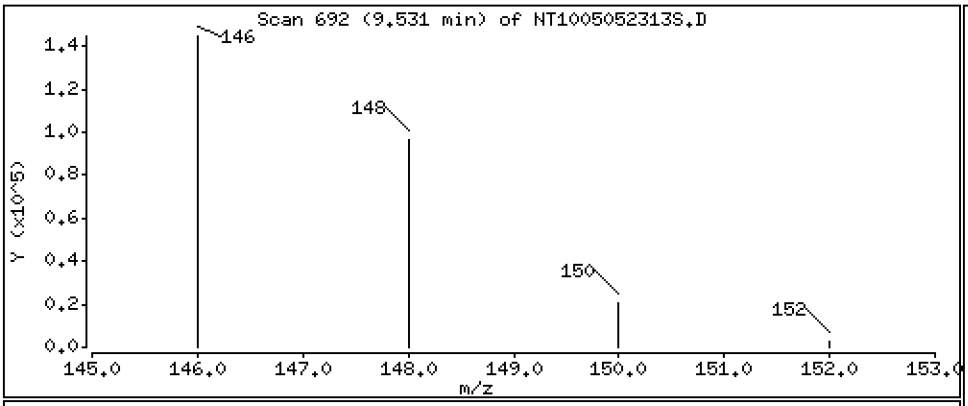
Operator: DSD

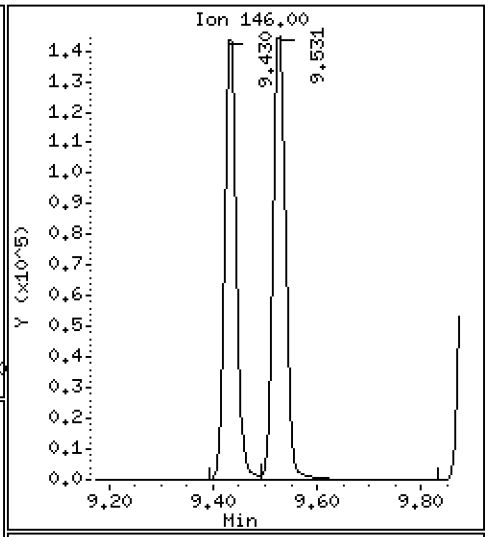
Column phase: ZB-5msi

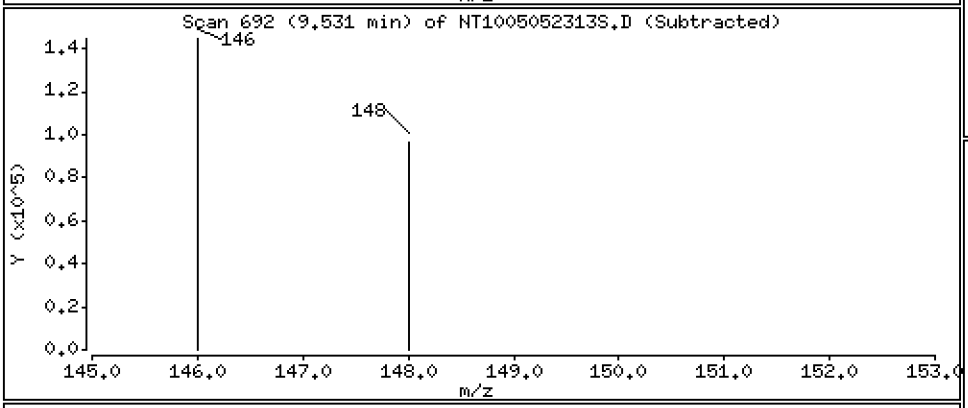
Column diameter: 0.25

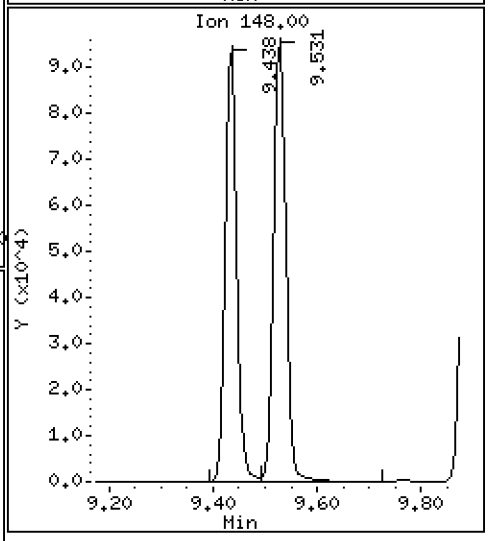
9 1,4-Dichlorobenzene

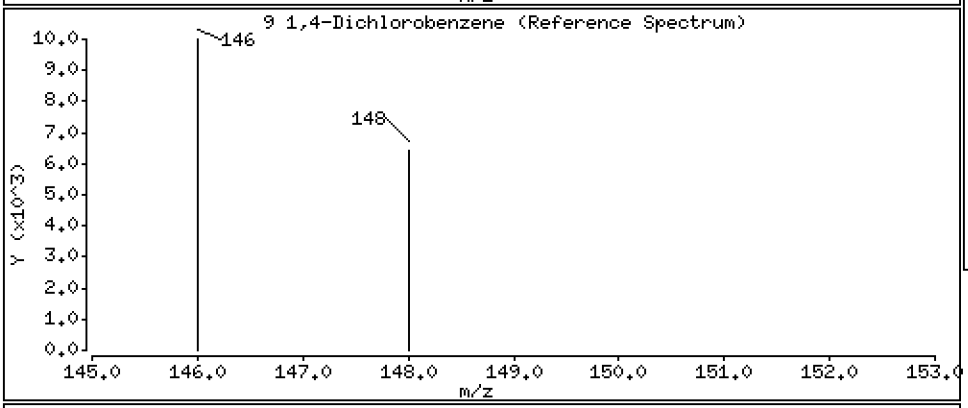
Concentration: 2.831 ug/L

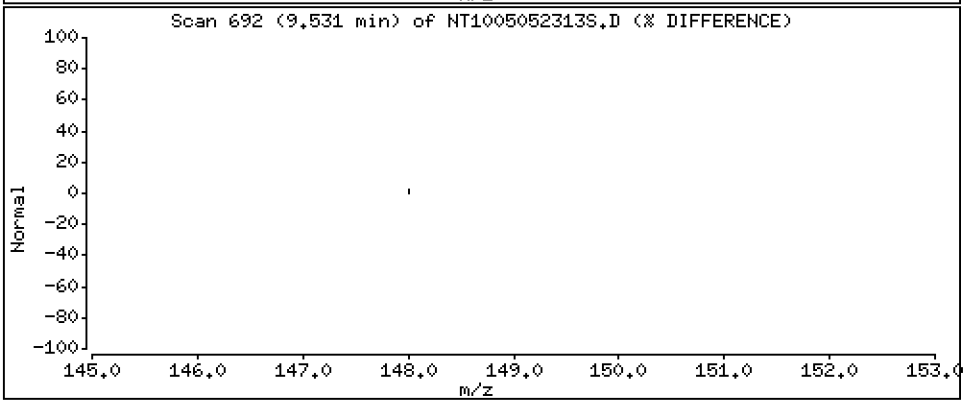












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

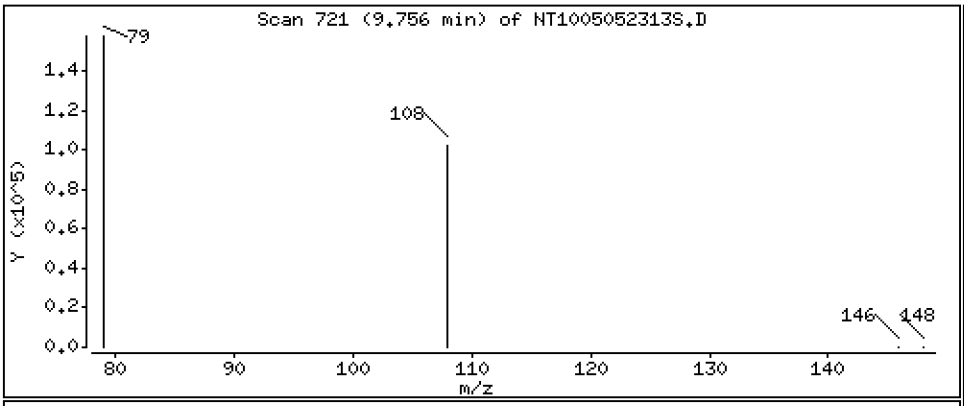
Operator: DSD

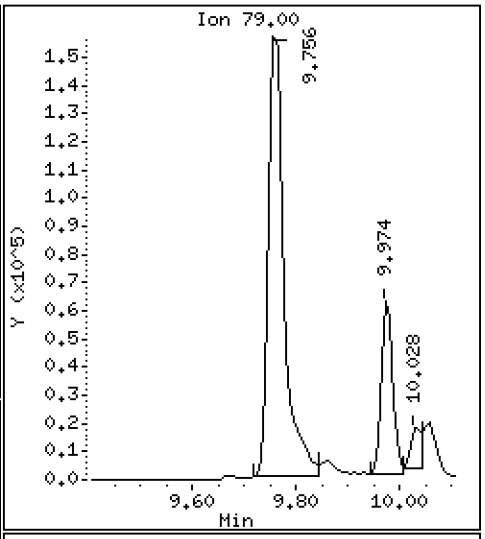
Column phase: ZB-5msi

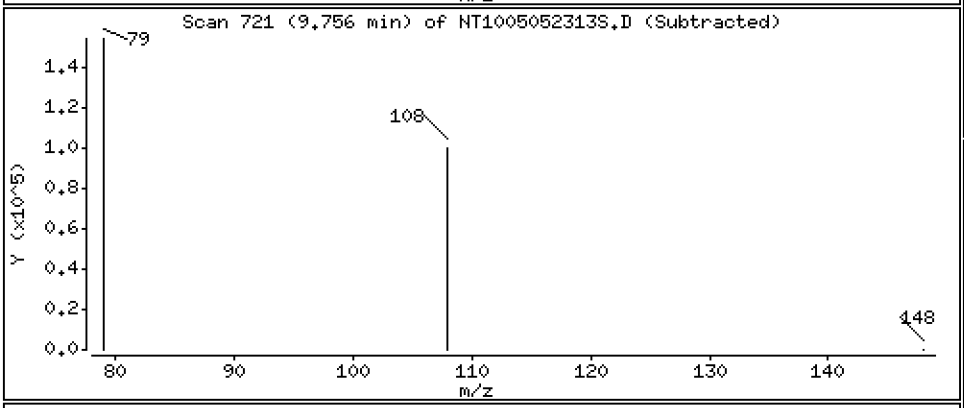
Column diameter: 0.25

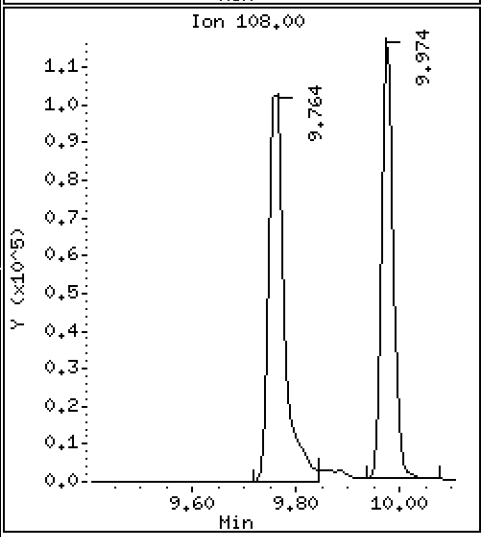
11 Benzyl alcohol

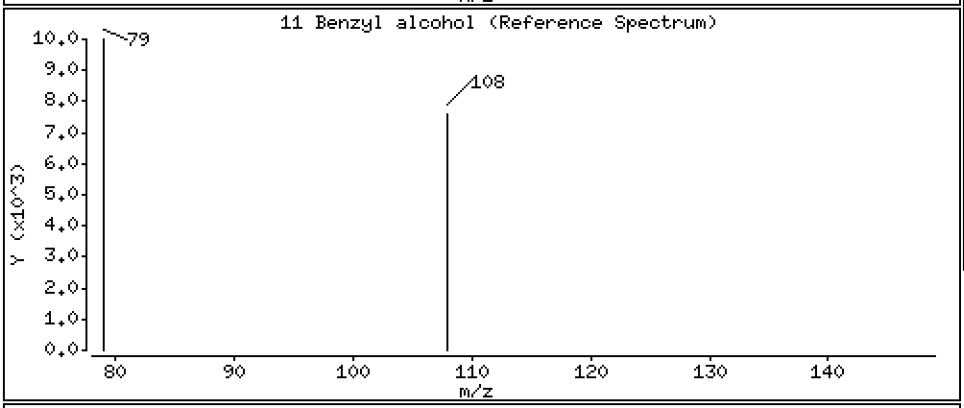
Concentration: 5.817 ug/L

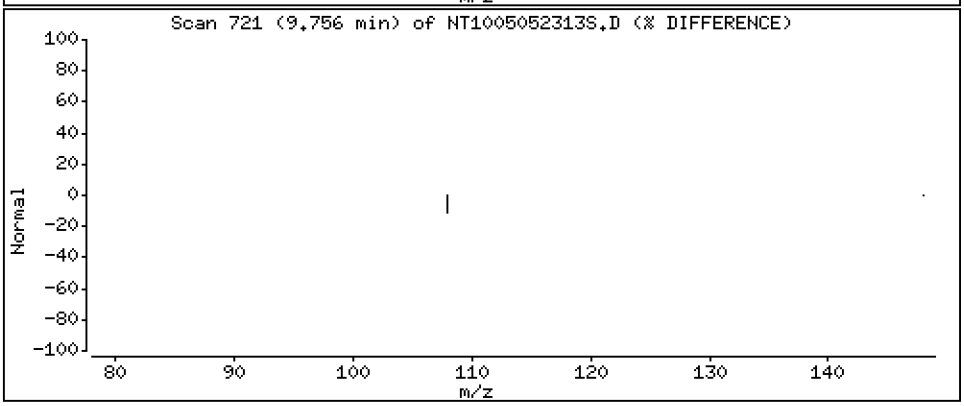












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

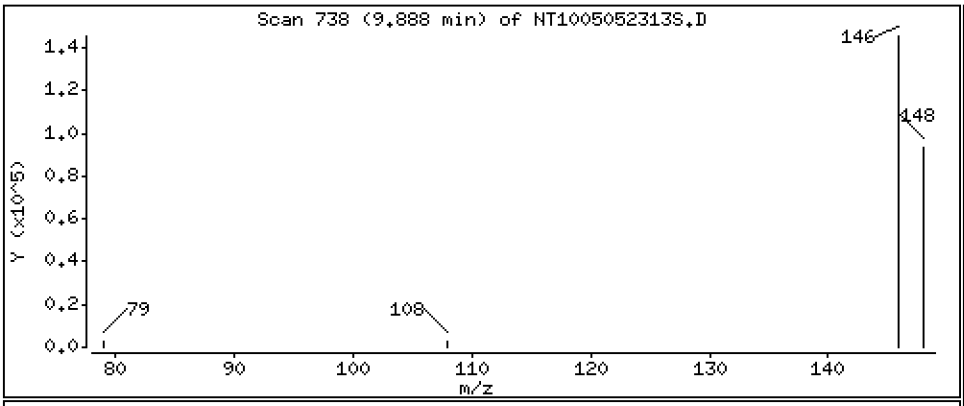
Operator: DSD

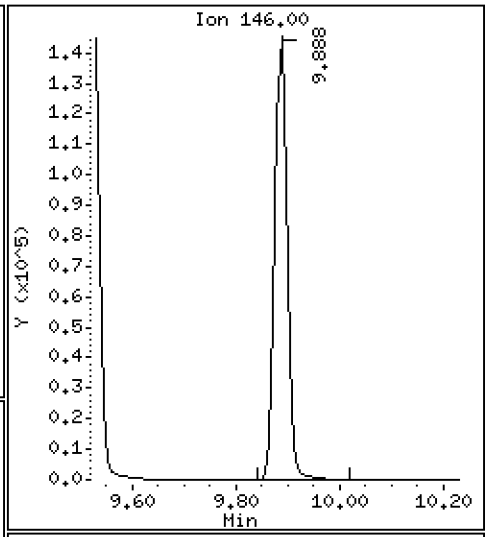
Column phase: ZB-5msi

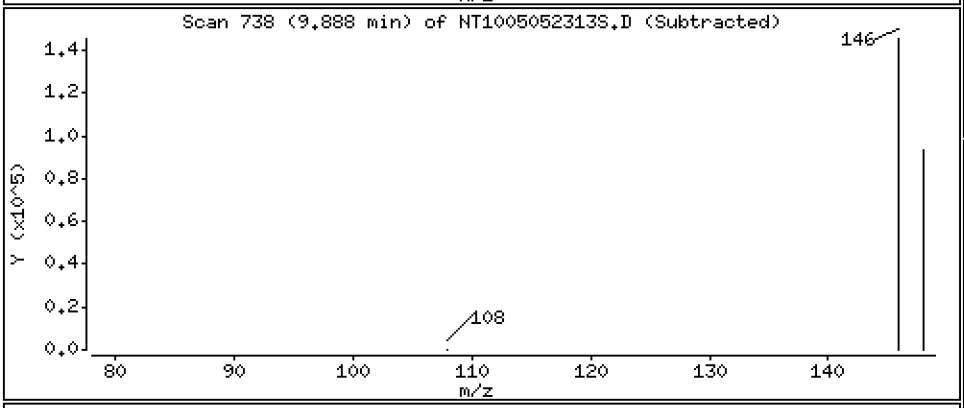
Column diameter: 0.25

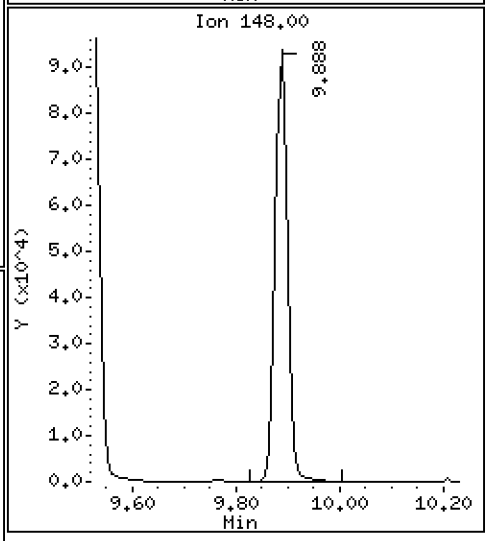
12 1,2-Dichlorobenzene

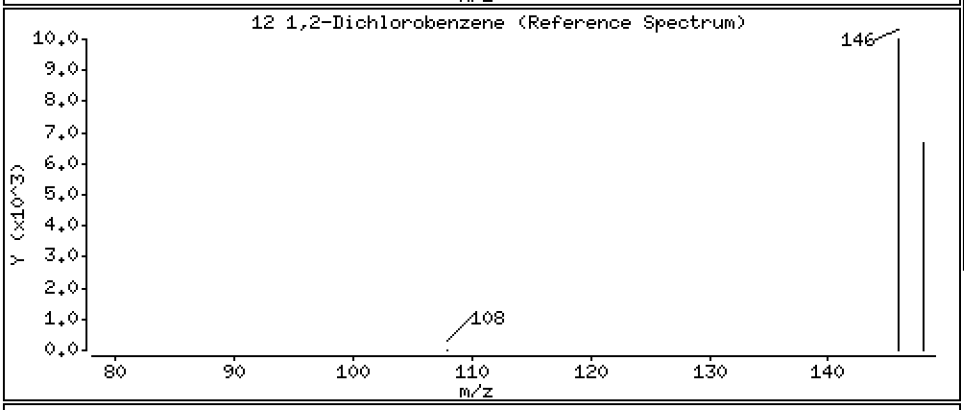
Concentration: 2.881 ug/L

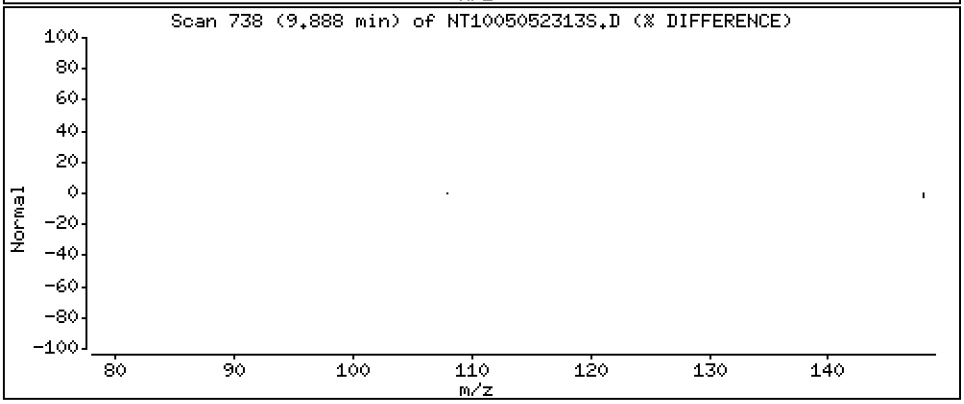












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

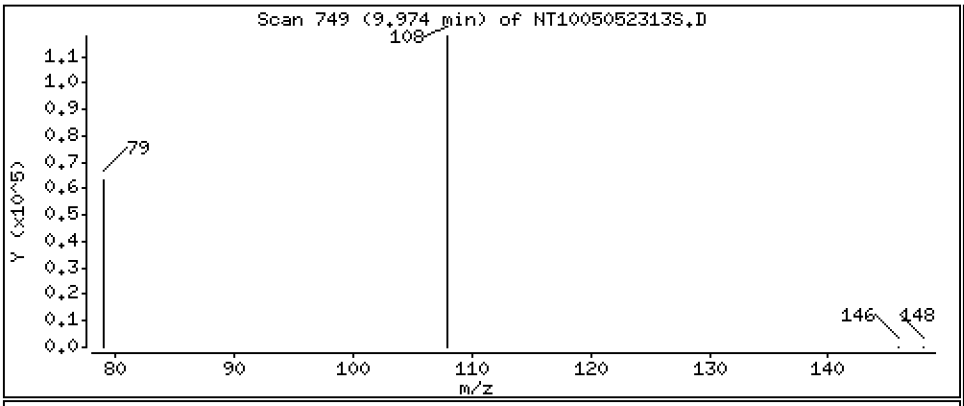
Operator: DSD

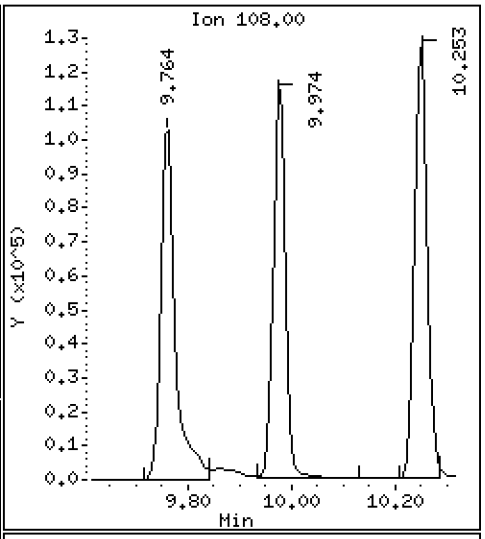
Column phase: ZB-5msi

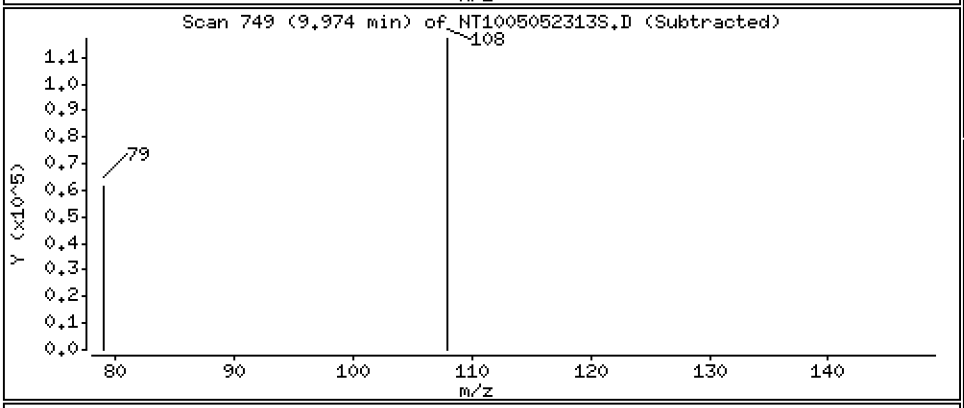
Column diameter: 0.25

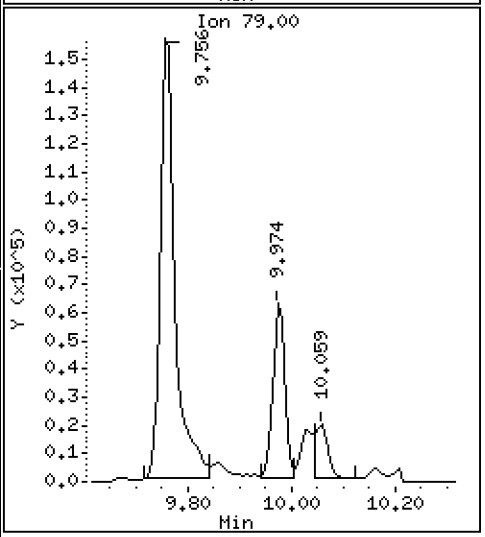
13 2-Methylphenol

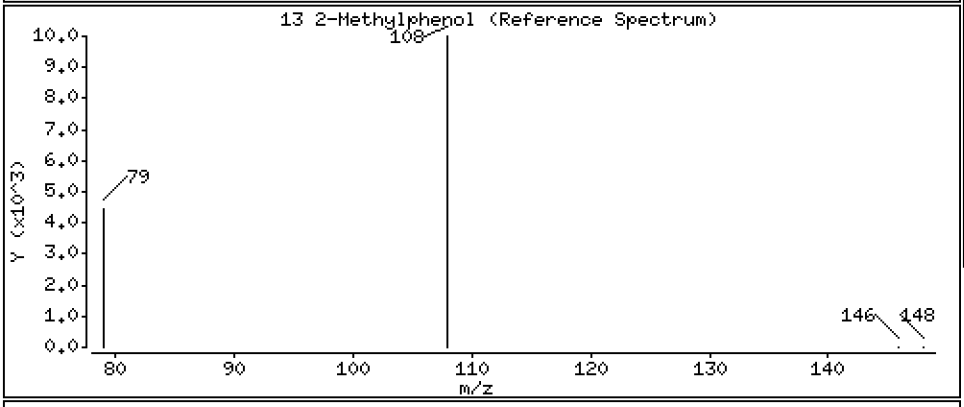
Concentration: 3.146 ug/L

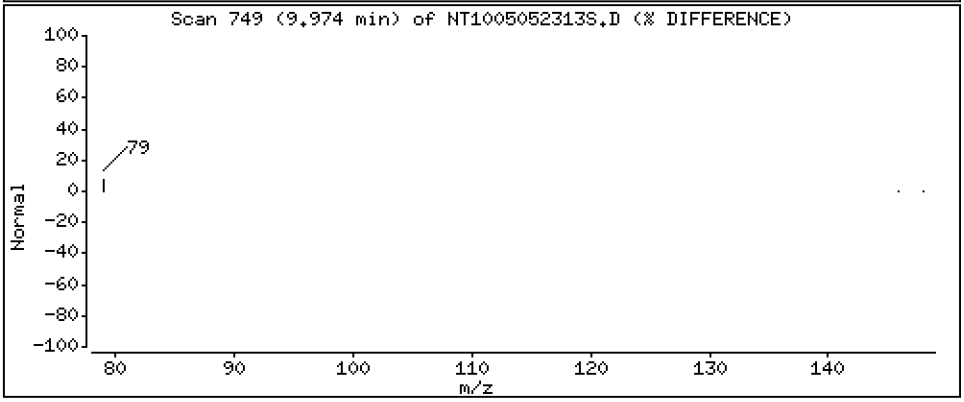












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

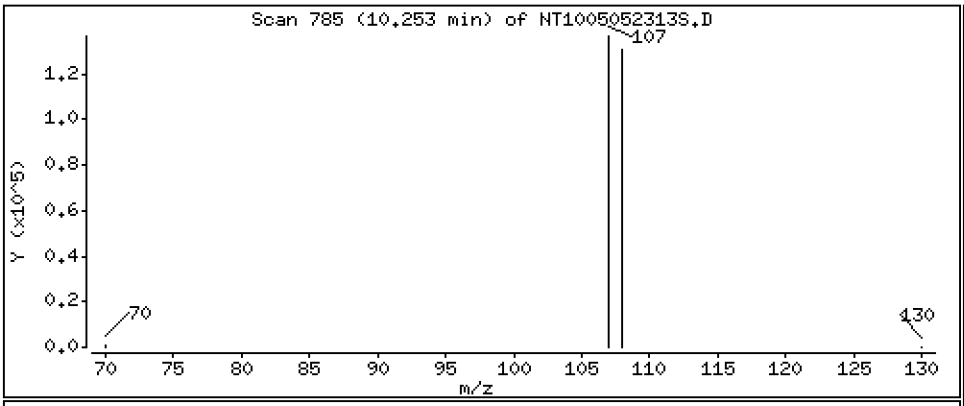
Operator: DSD

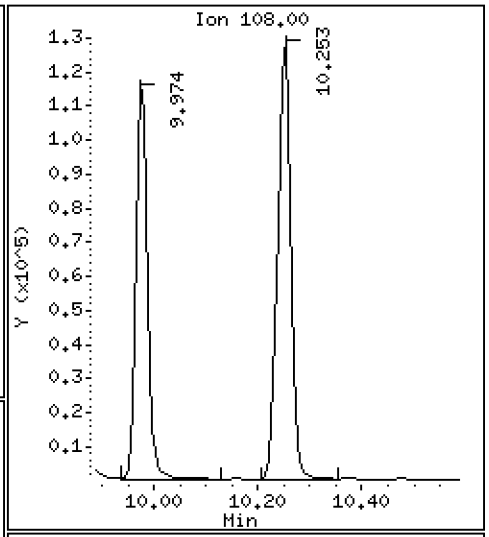
Column phase: ZB-5msi

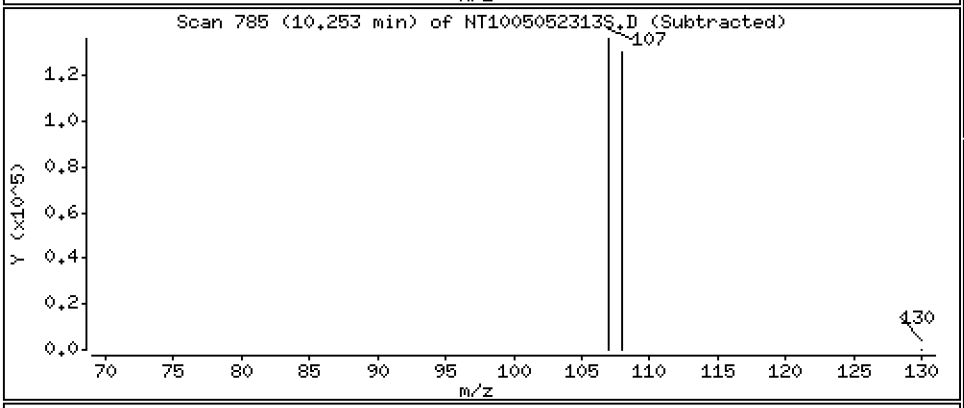
Column diameter: 0.25

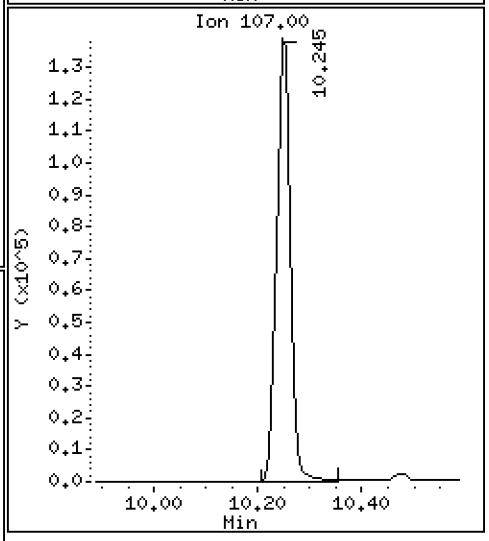
15 4-Methylphenol

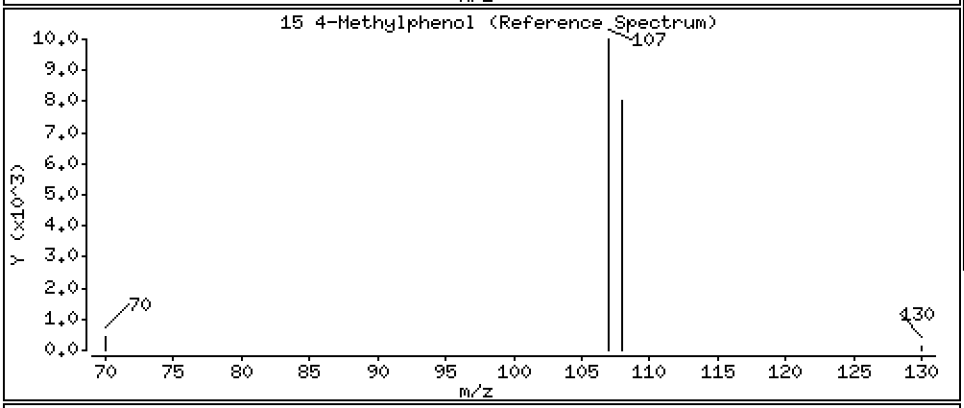
Concentration: 3.636 ug/L

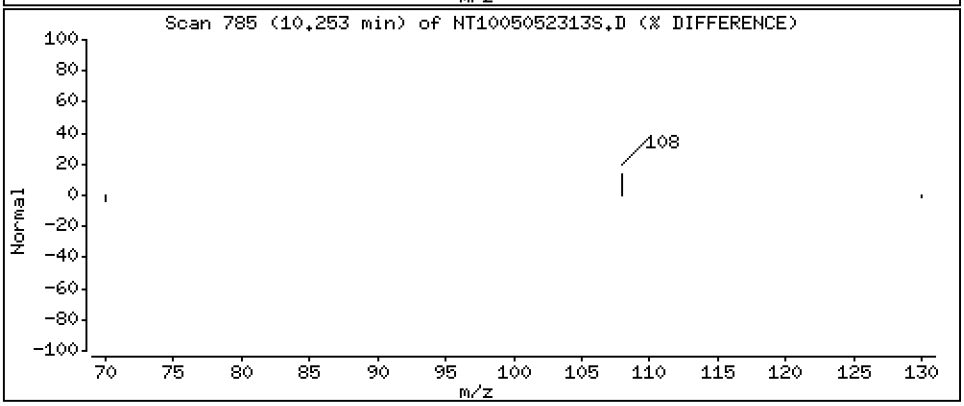












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

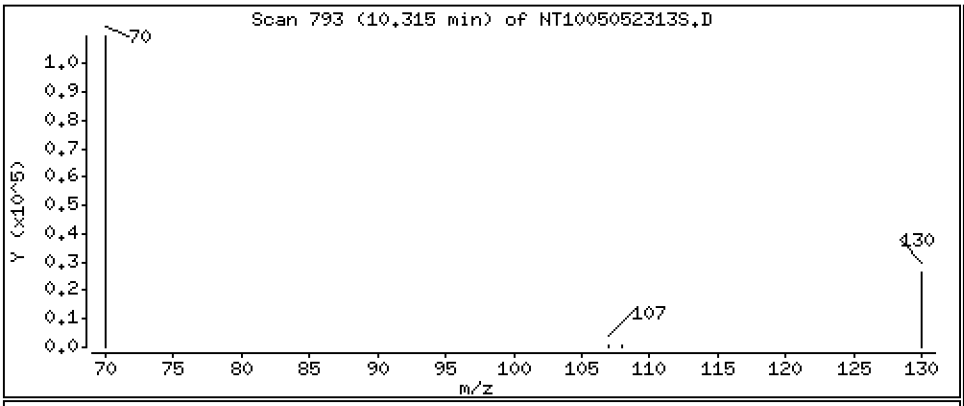
Operator: DSD

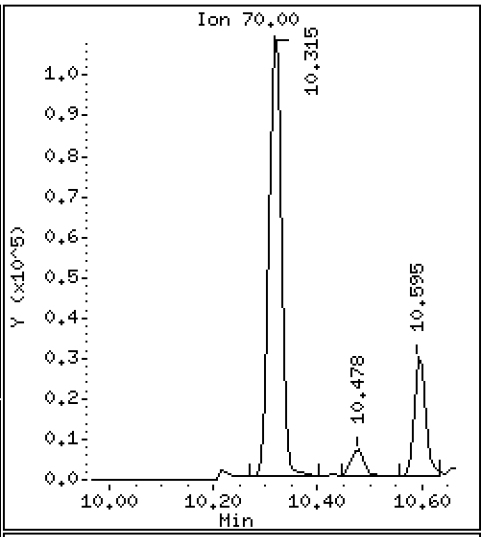
Column phase: ZB-5msi

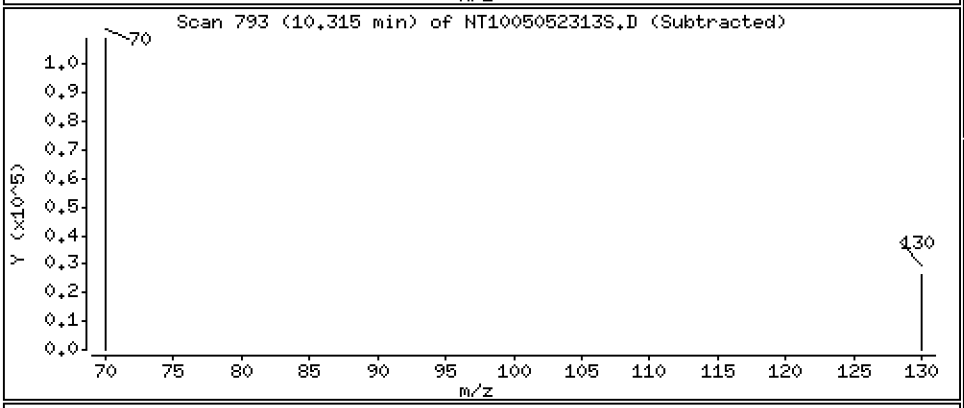
Column diameter: 0.25

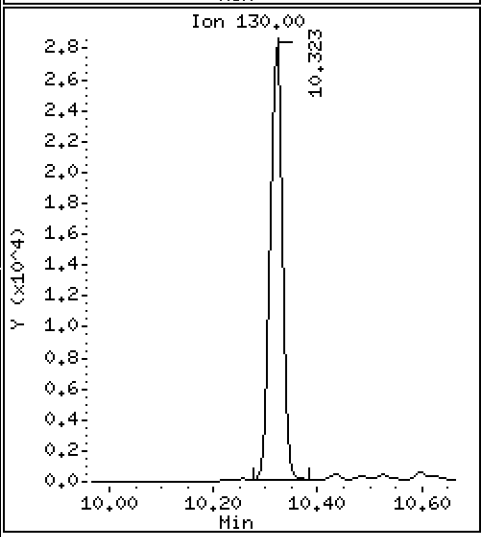
16 N-Nitroso-di-n-propylamine

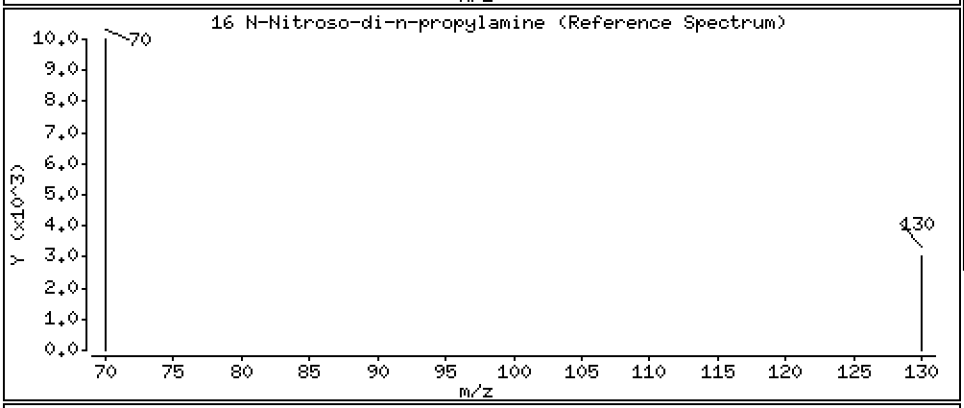
Concentration: 3.875 ug/L

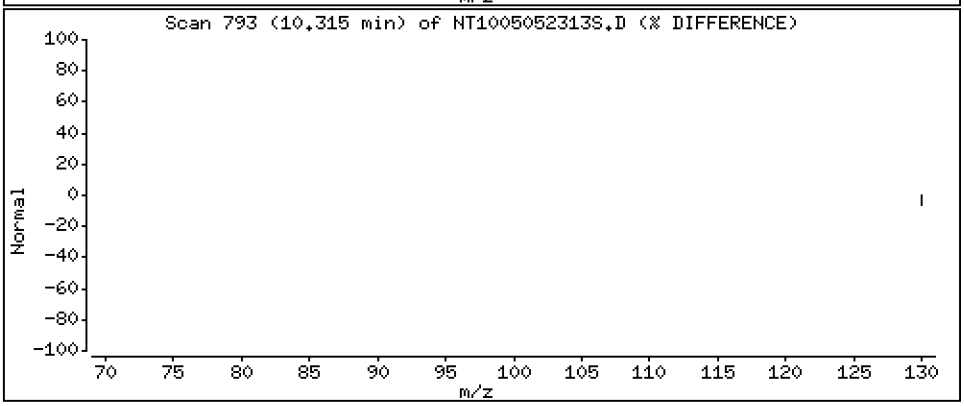












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523135.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

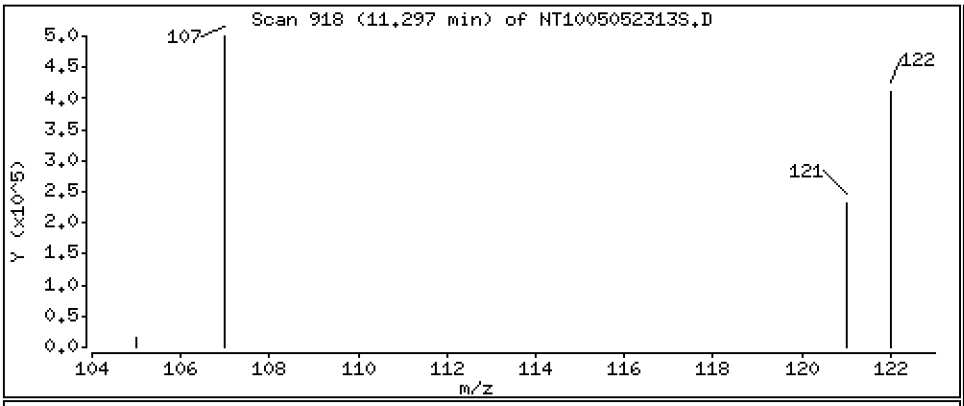
Operator: DSD

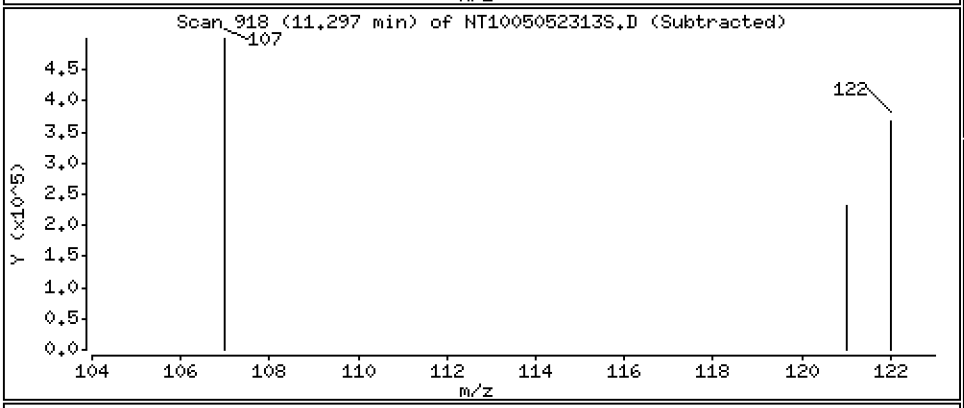
Column phase: ZB-5msi

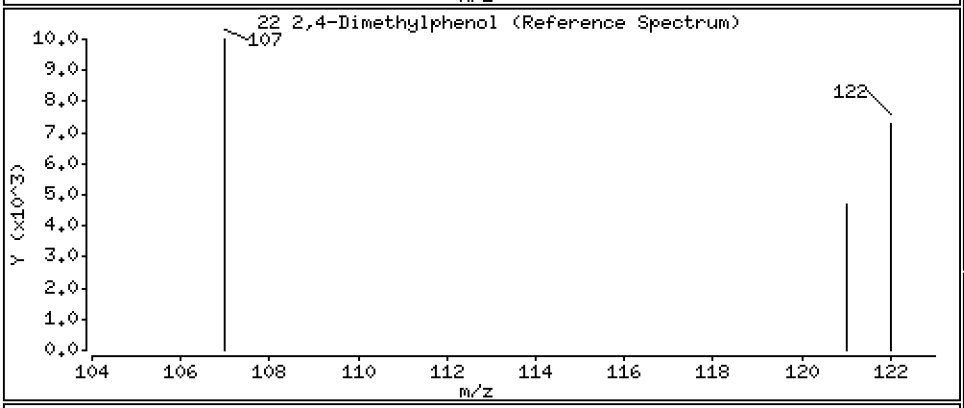
Column diameter: 0.25

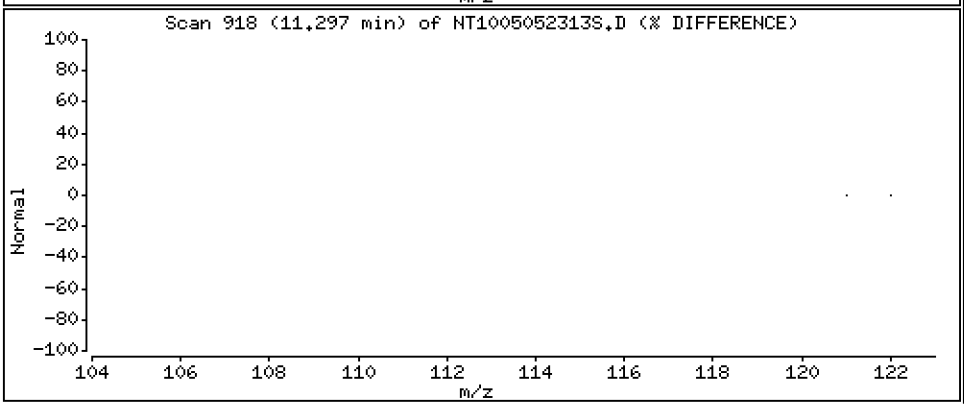
22 2,4-Dimethylphenol

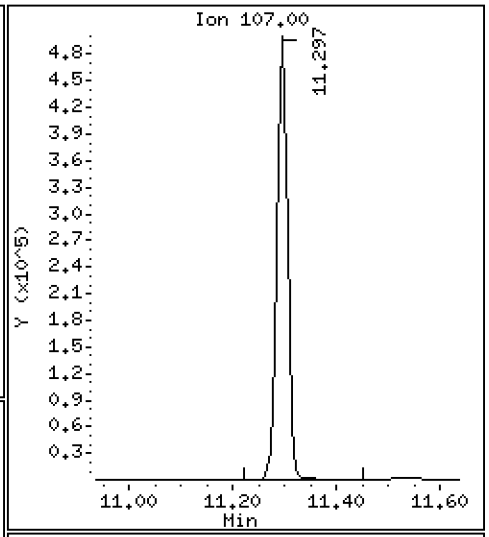
Concentration: 9.421 ug/L

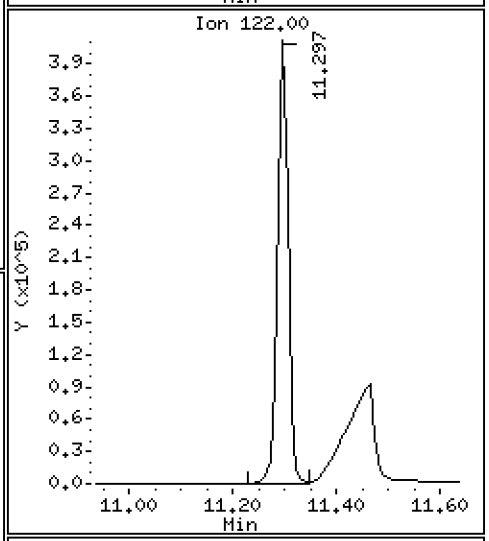


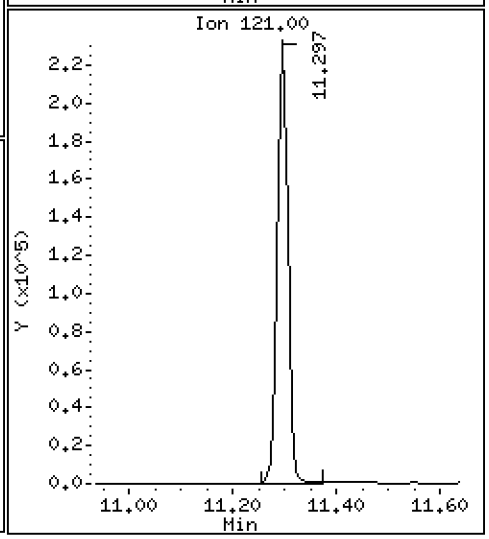












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Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

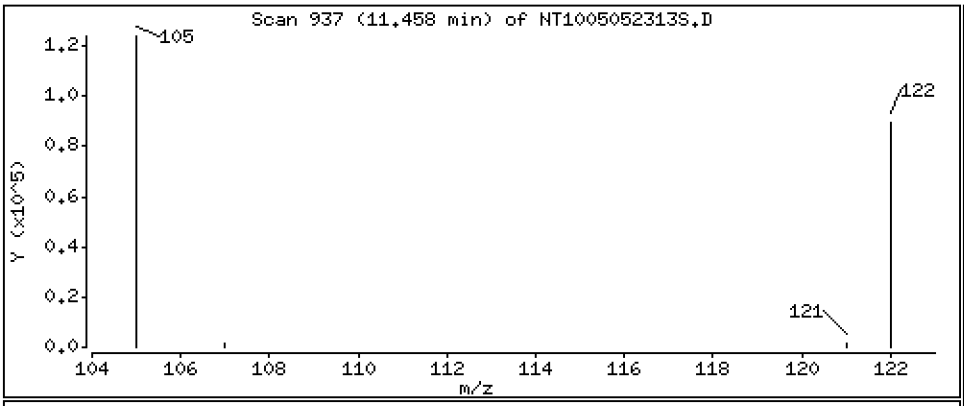
Operator: DSD

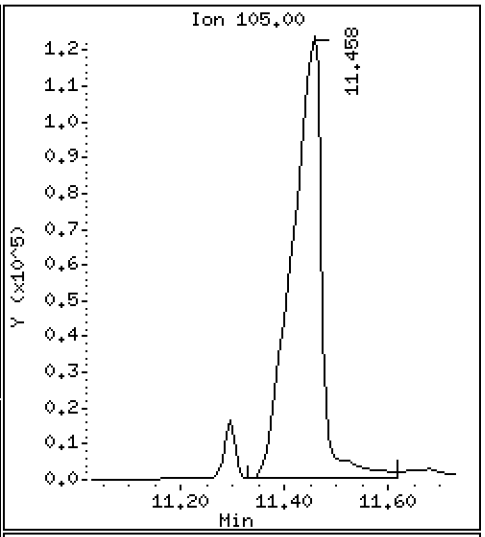
Column phase: ZB-5msi

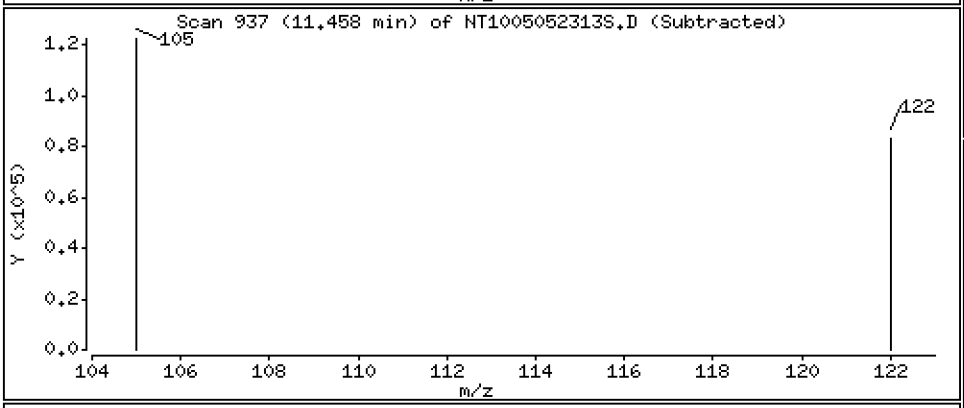
Column diameter: 0.25

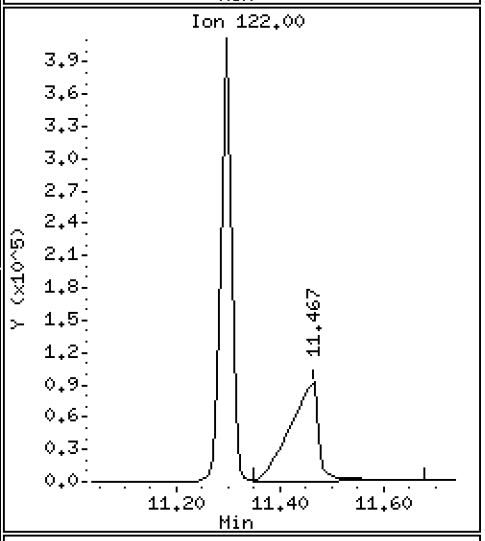
24 Benzoic acid

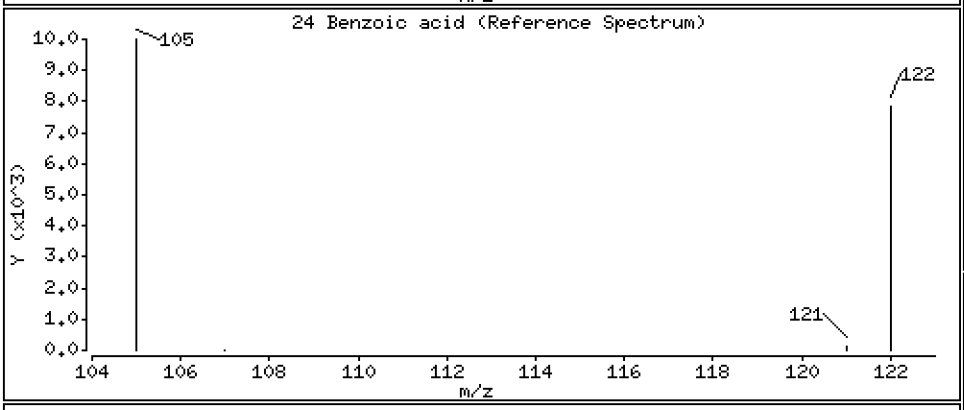
Concentration: 9.555 ug/L

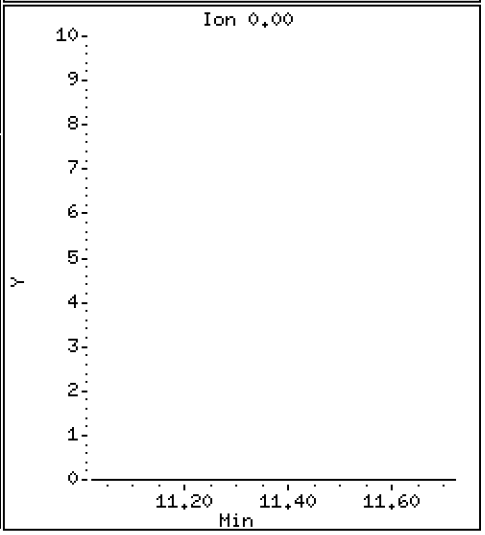


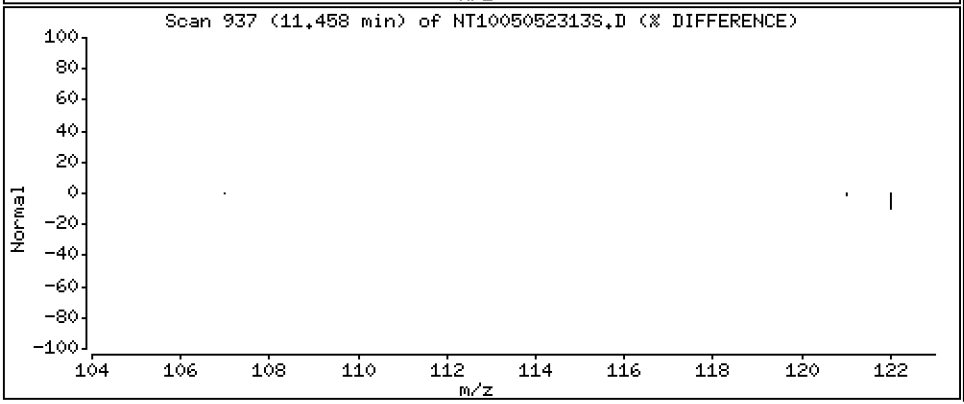












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

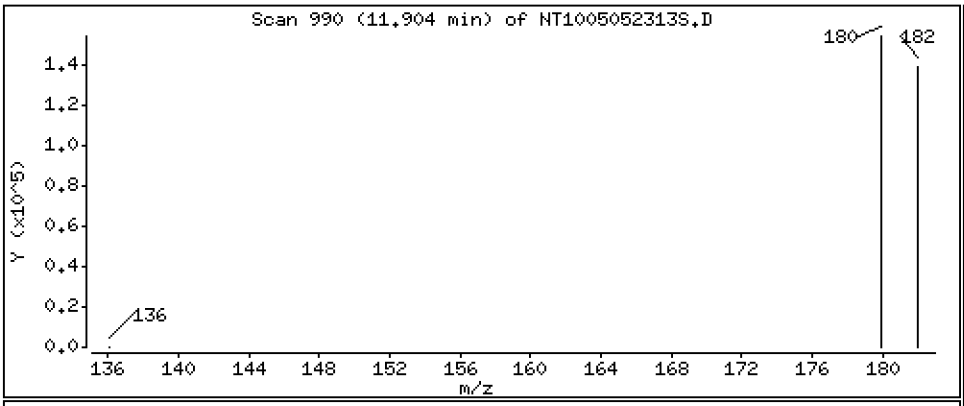
Operator: DSD

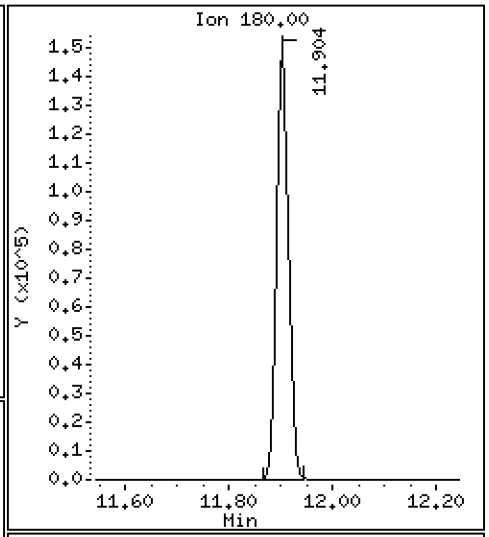
Column phase: ZB-5msi

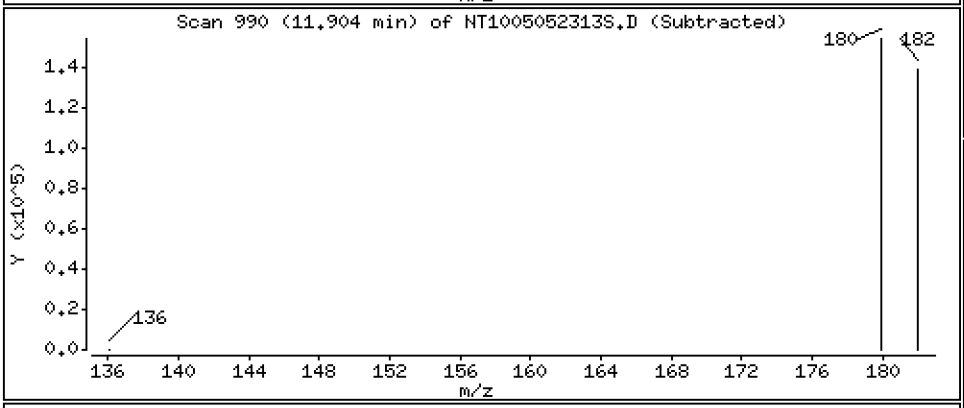
Column diameter: 0.25

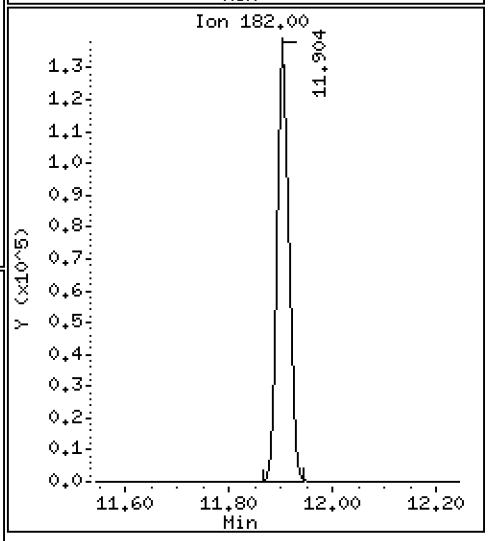
26 1,2,4-Trichlorobenzene

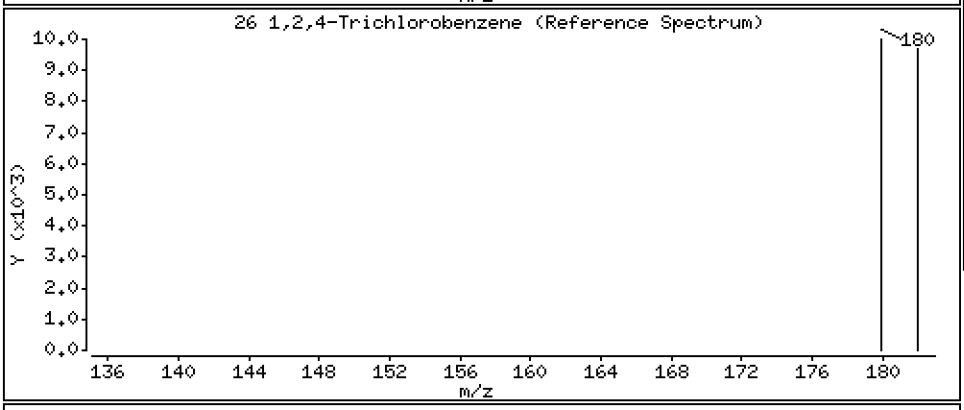
Concentration: 2.944 ug/L

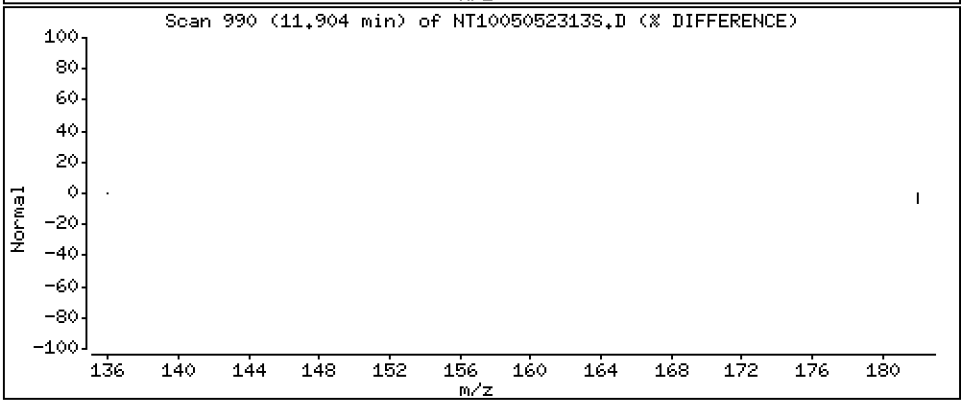












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

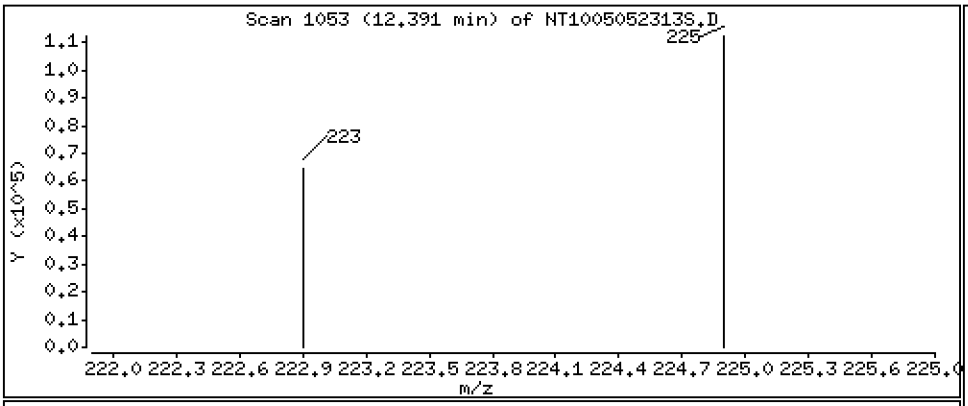
Operator: DSD

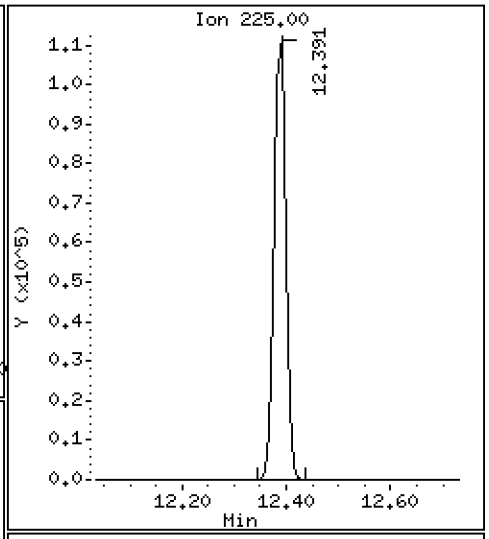
Column phase: ZB-5msi

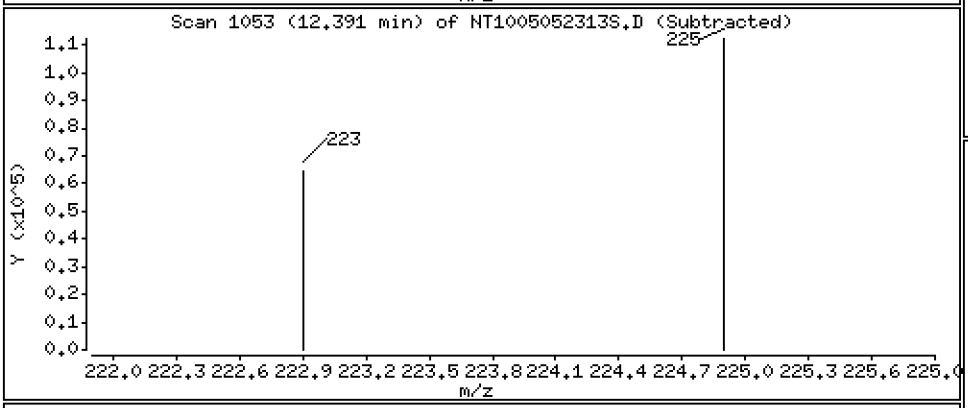
Column diameter: 0.25

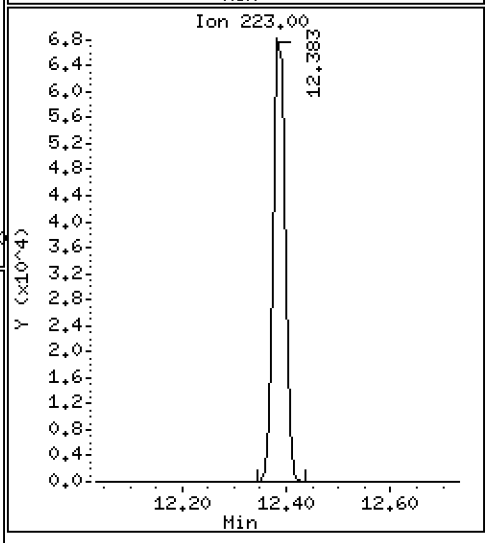
30 Hexachlorobutadiene

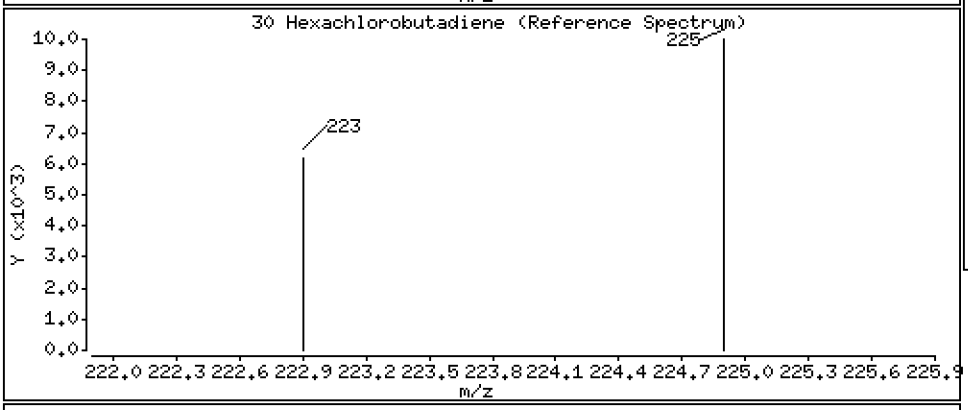
Concentration: 3.224 ug/L

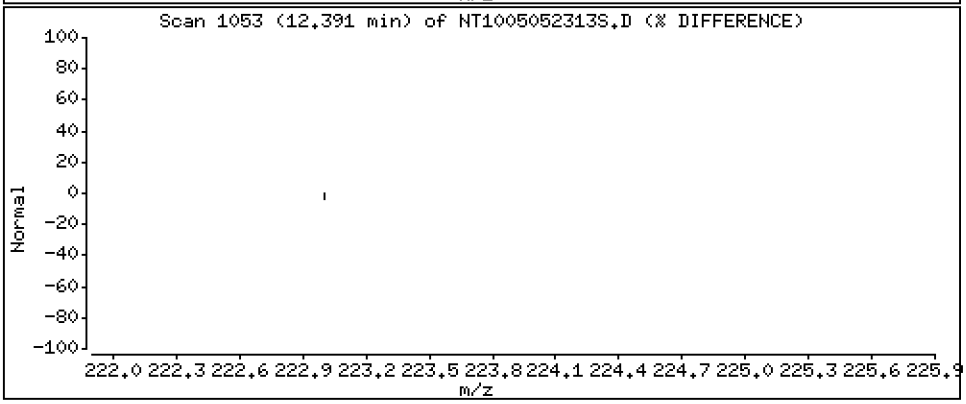












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

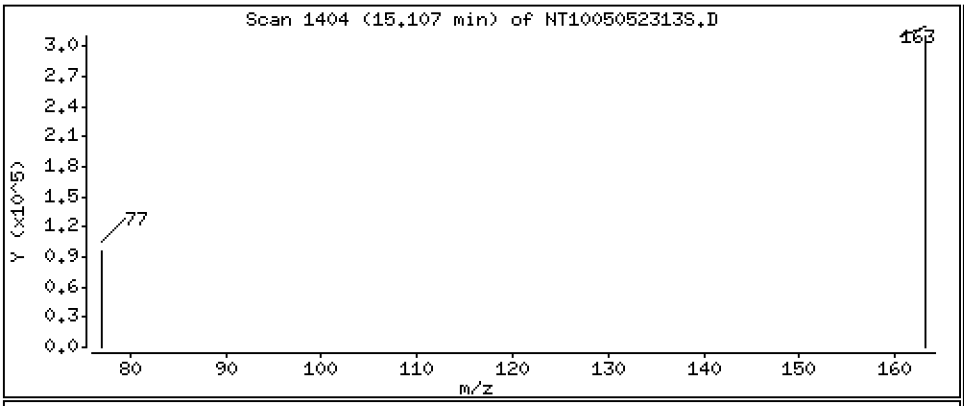
Operator: DSD

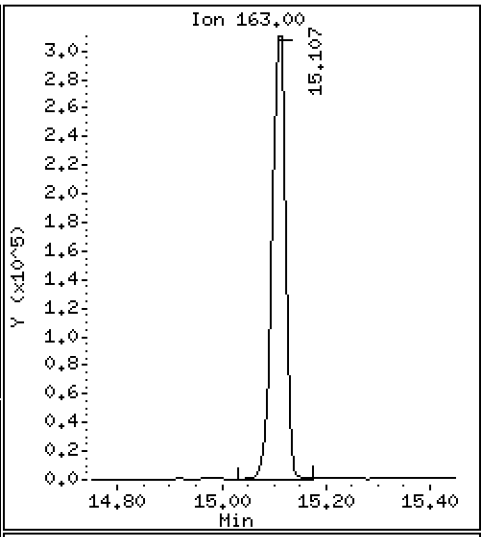
Column phase: ZB-5msi

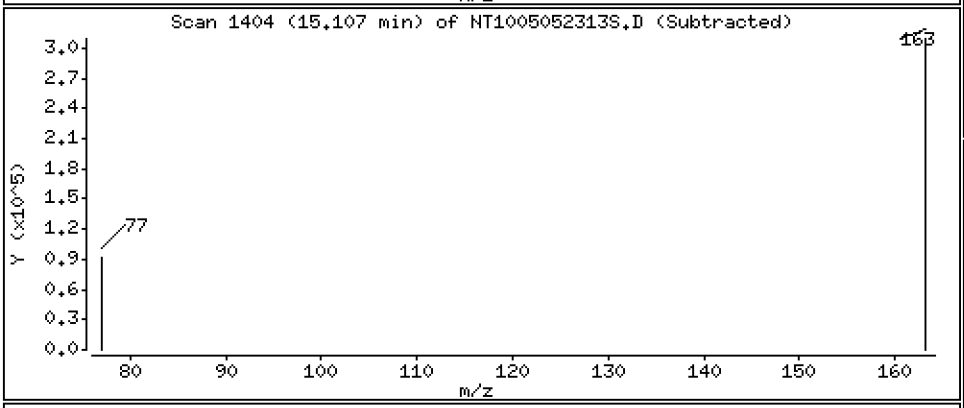
Column diameter: 0.25

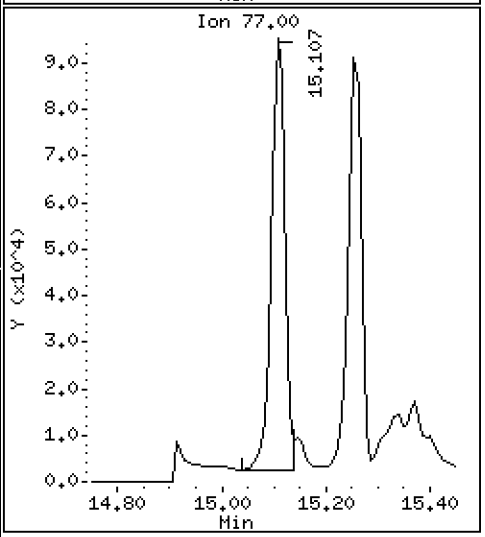
39 Dimethylphthalate

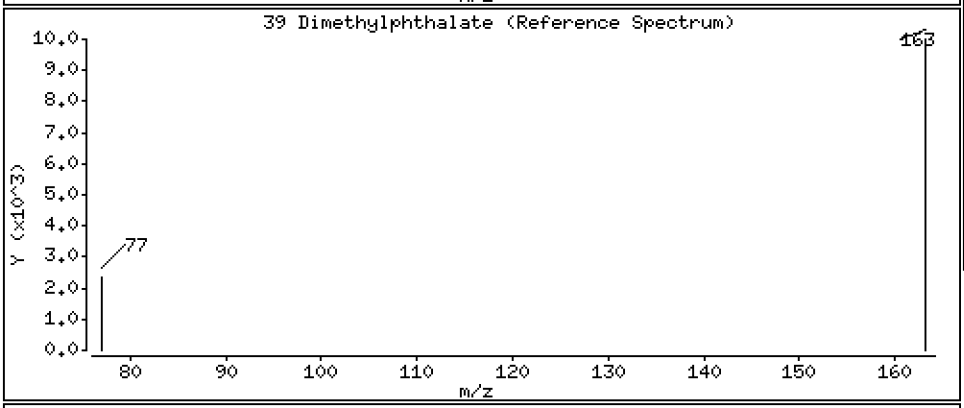
Concentration: 3.699 ug/L

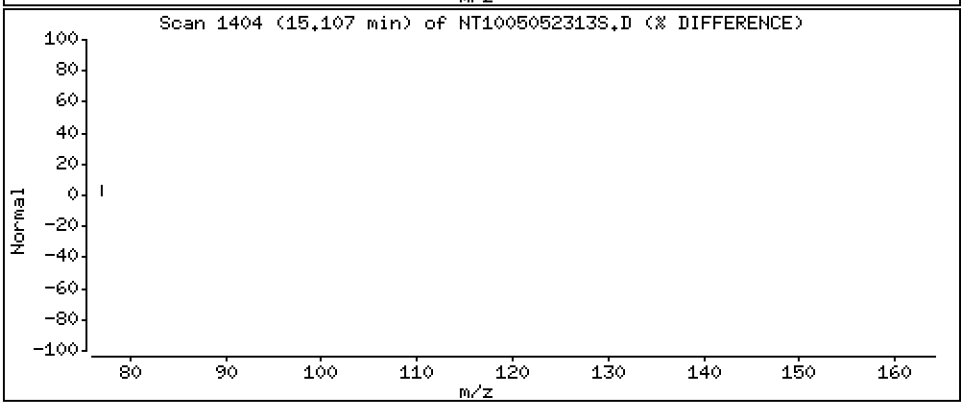












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

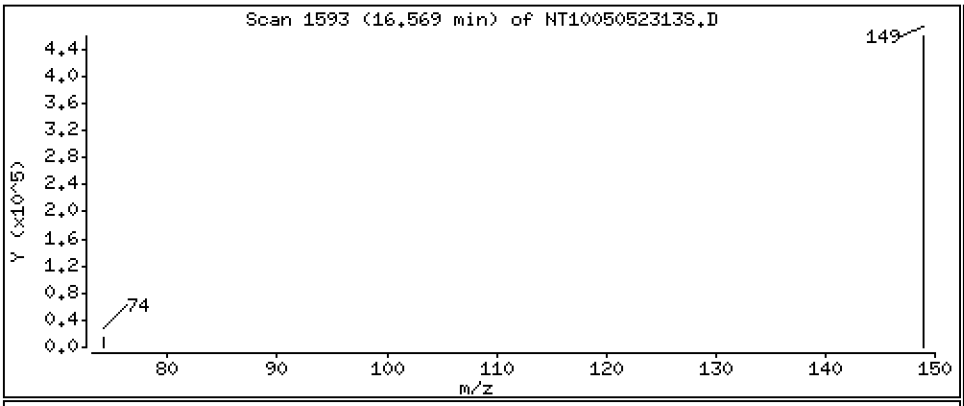
Operator: DSD

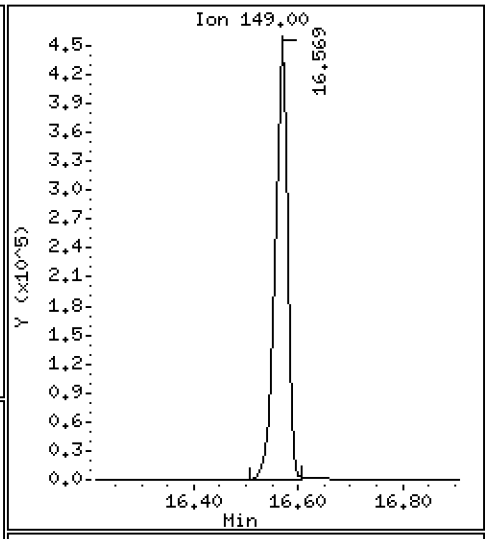
Column phase: ZB-5msi

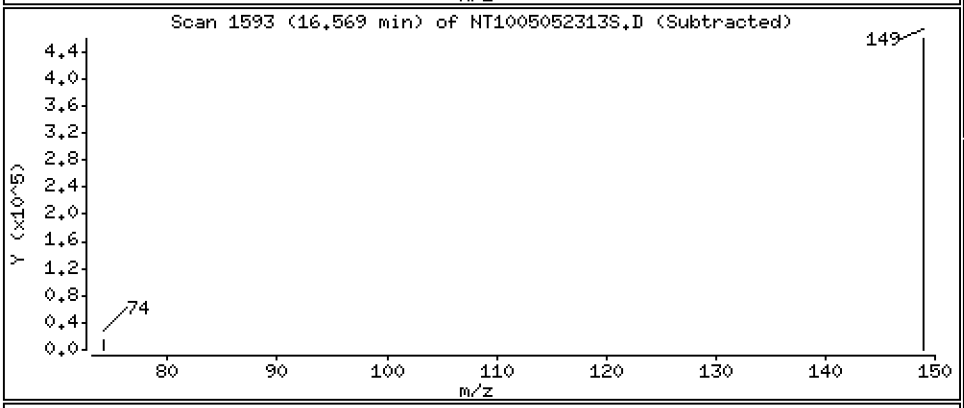
Column diameter: 0.25

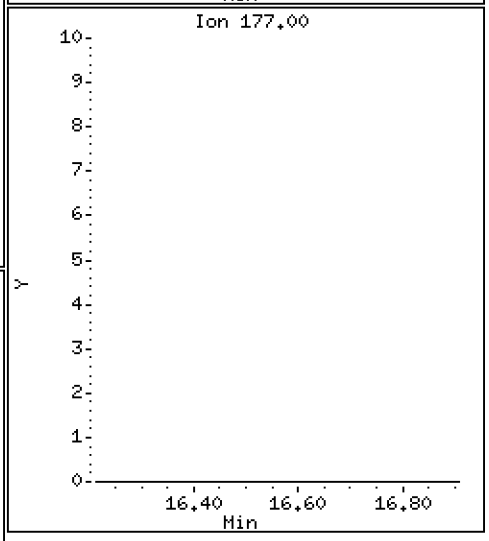
50 Diethylphthalate

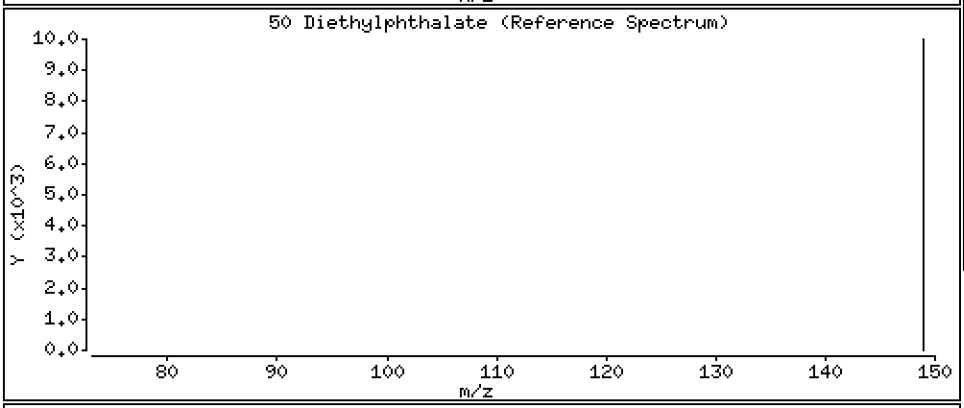
Concentration: 4.763 ug/L

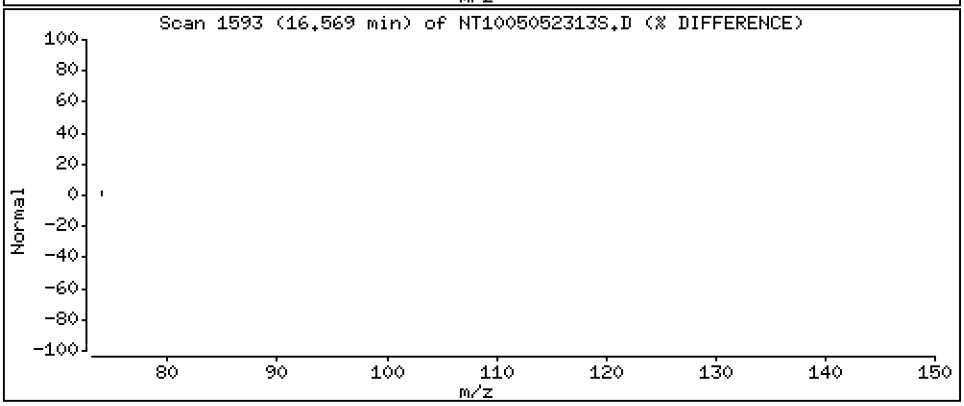












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

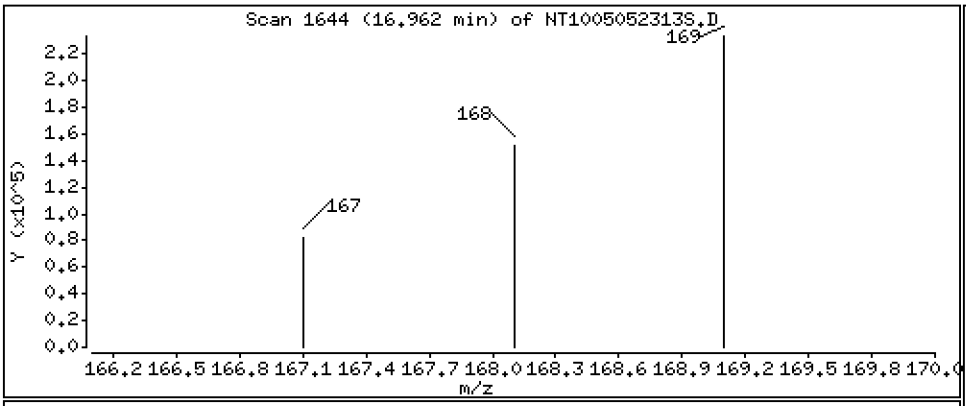
Operator: DSD

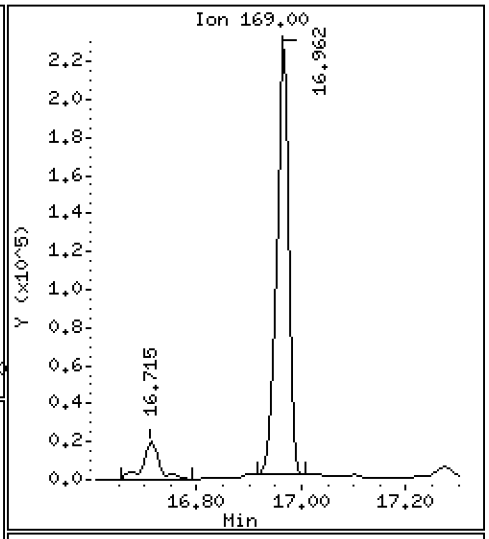
Column phase: ZB-5msi

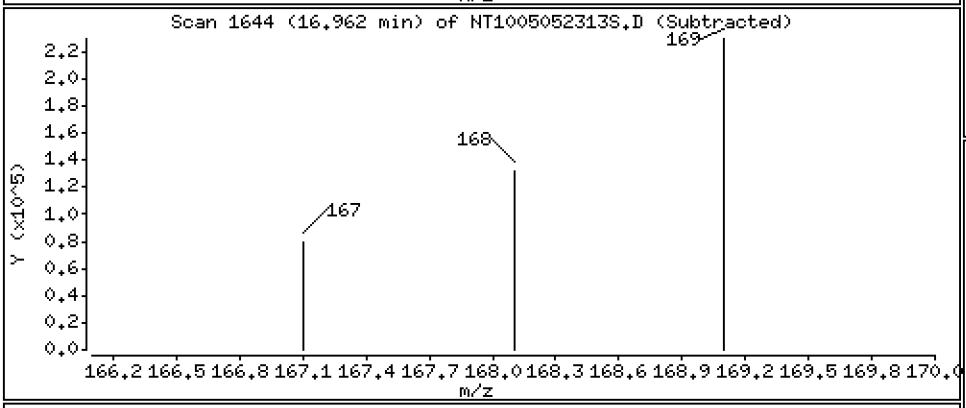
Column diameter: 0.25

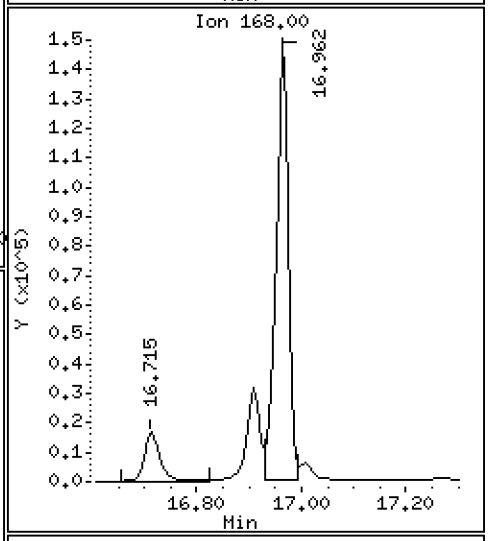
54 N-Nitrosodiphenylamine

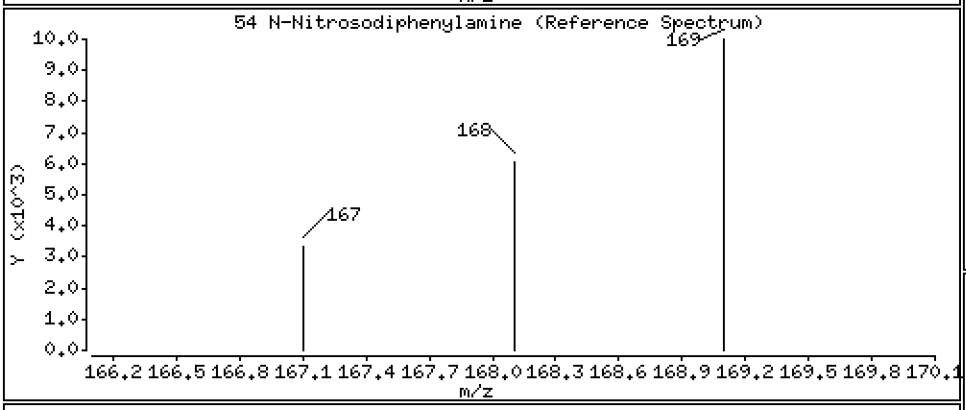
Concentration: 3.628 ug/L

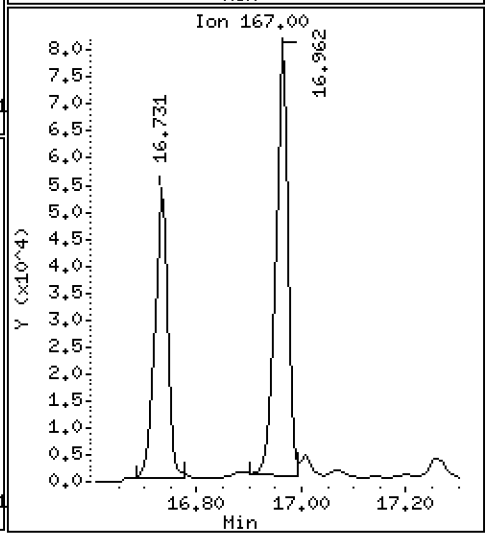


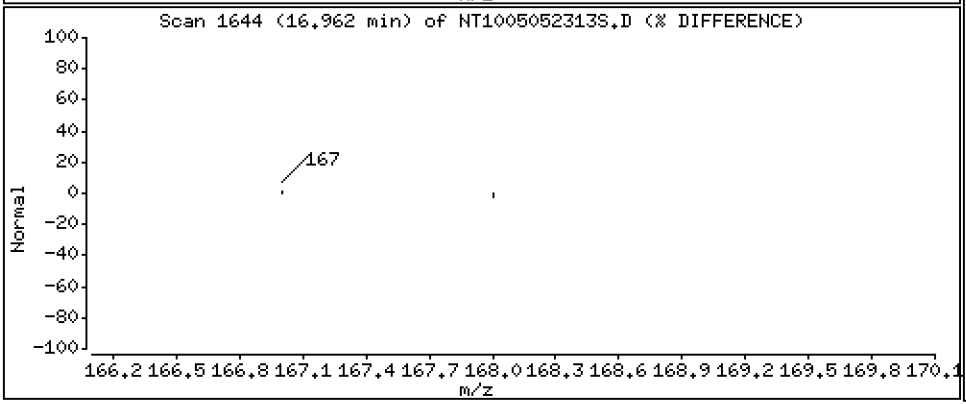












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

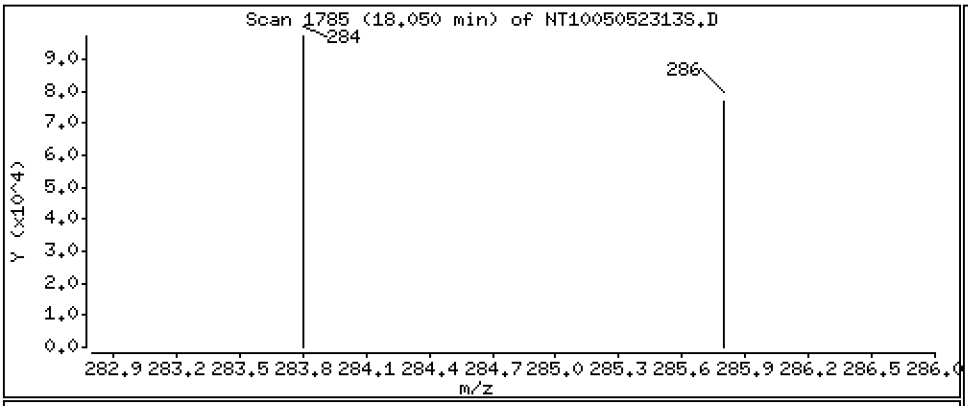
Operator: DSD

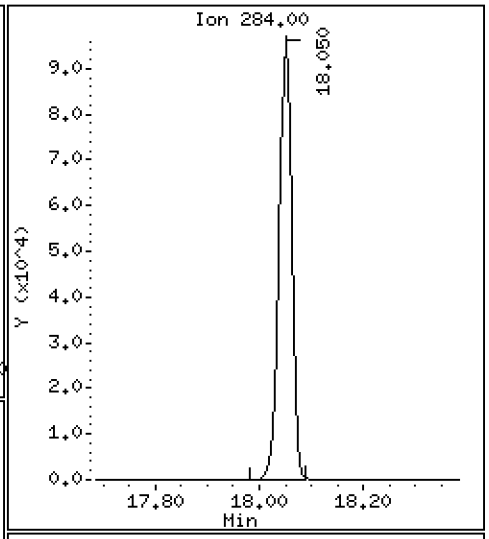
Column phase: ZB-5msi

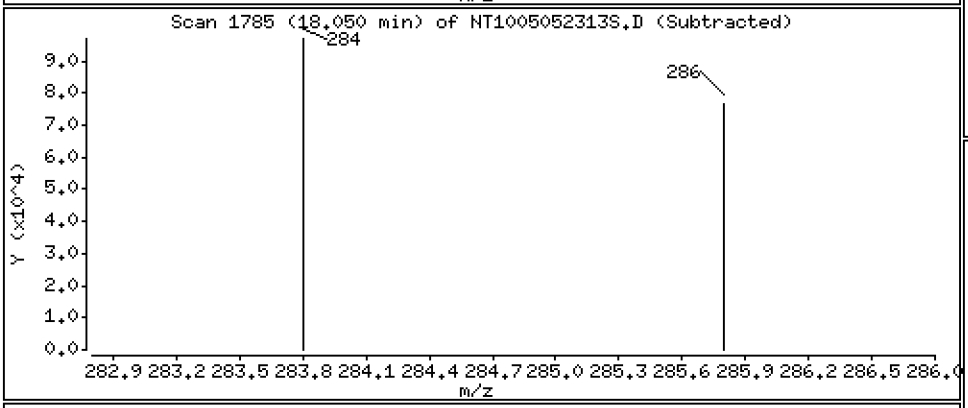
Column diameter: 0.25

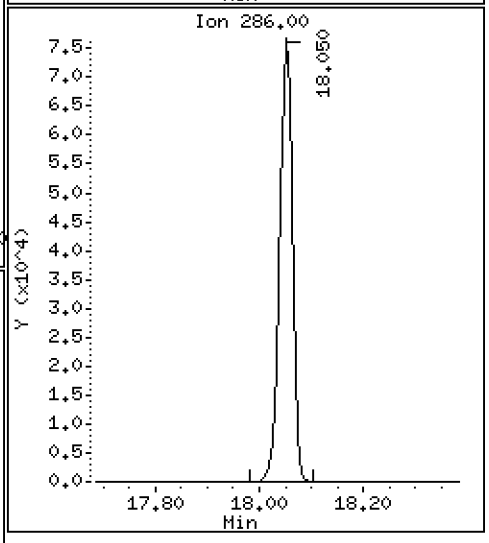
57 Hexachlorobenzene

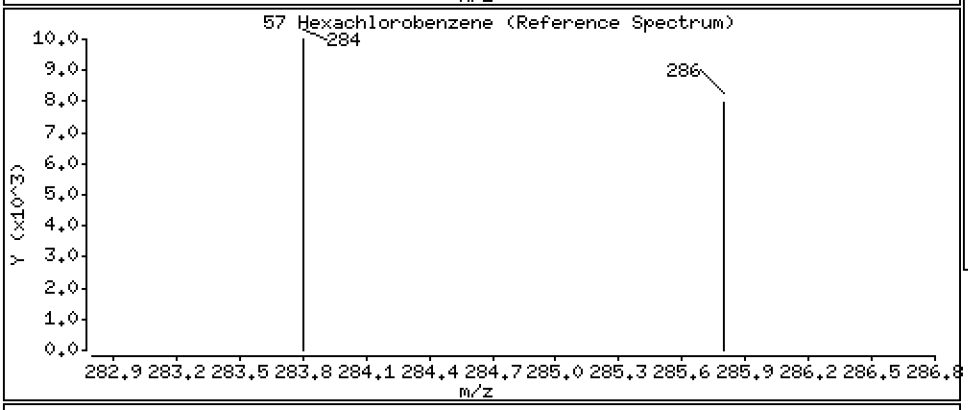
Concentration: 3.209 ug/L

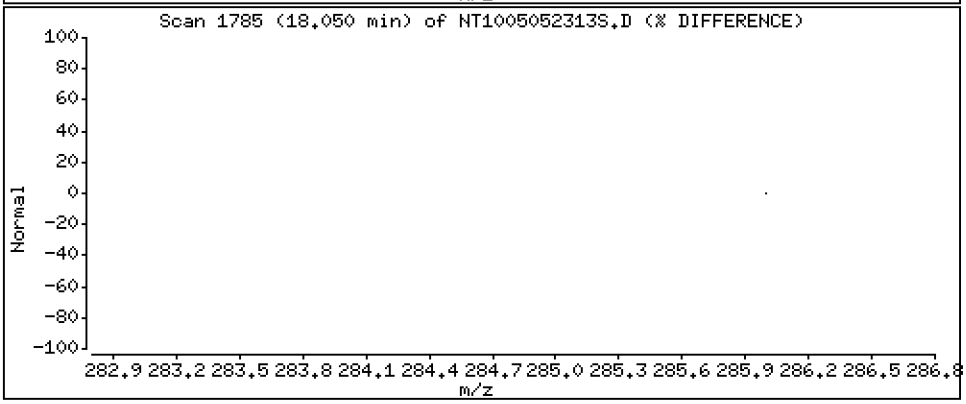












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

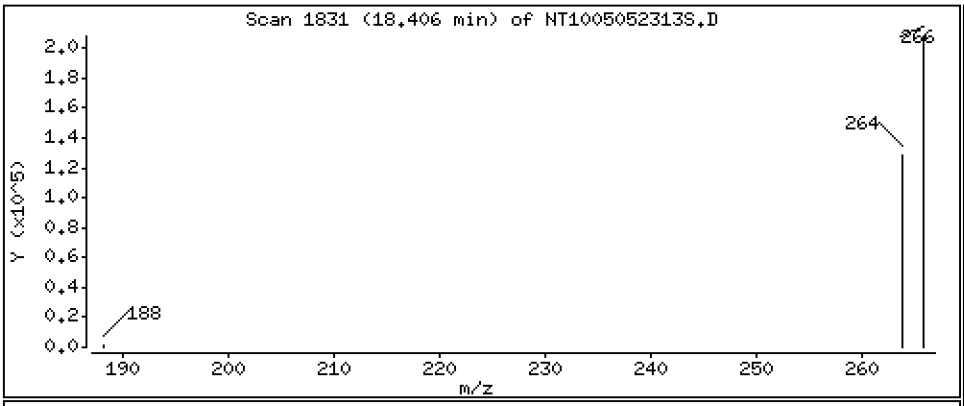
Operator: DSD

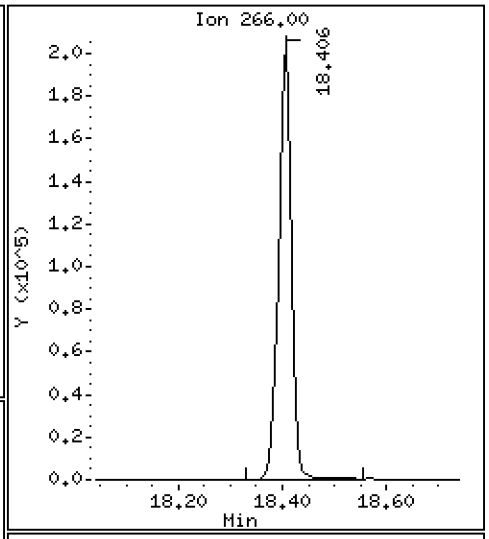
Column phase: ZB-5msi

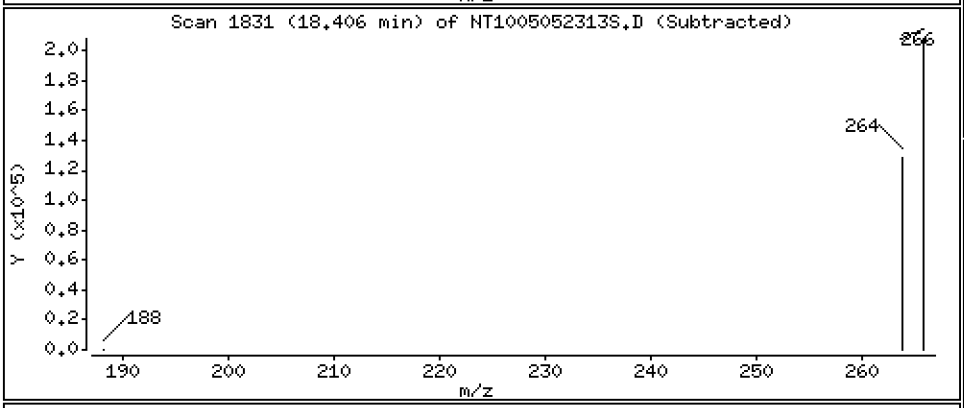
Column diameter: 0.25

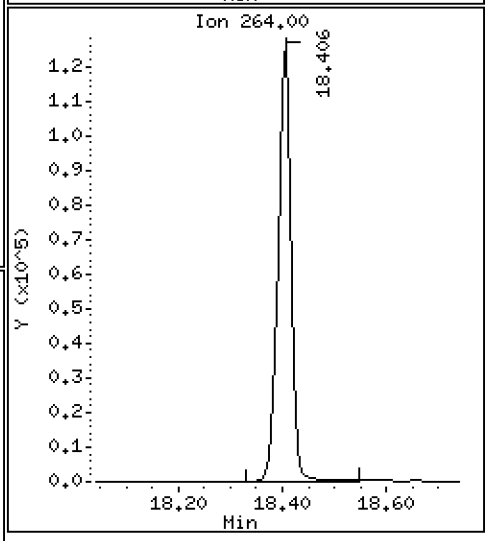
58 Pentachlorophenol

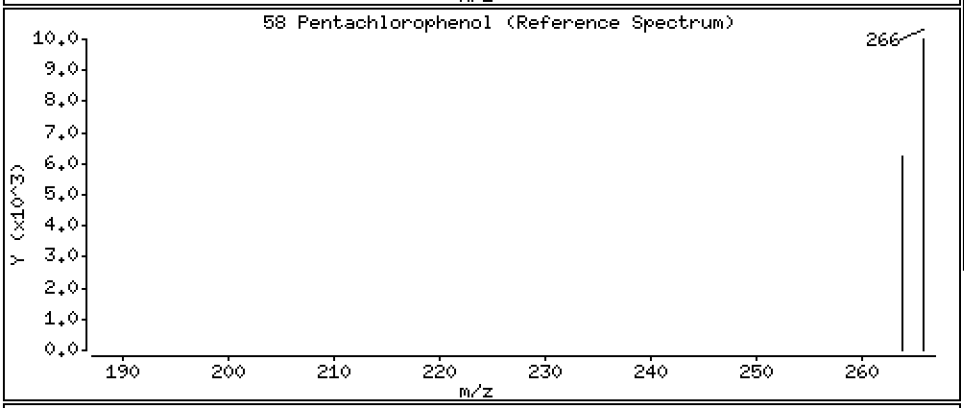
Concentration: 10.93 ug/L

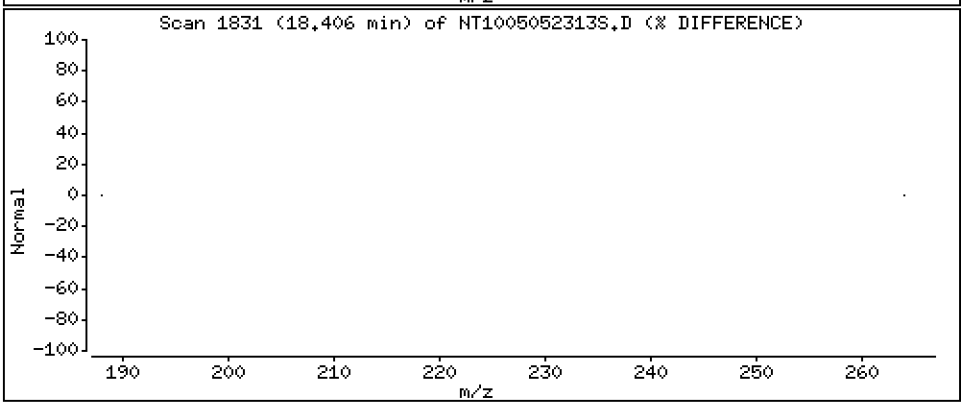












Date : 05-MAY-2023 18:32

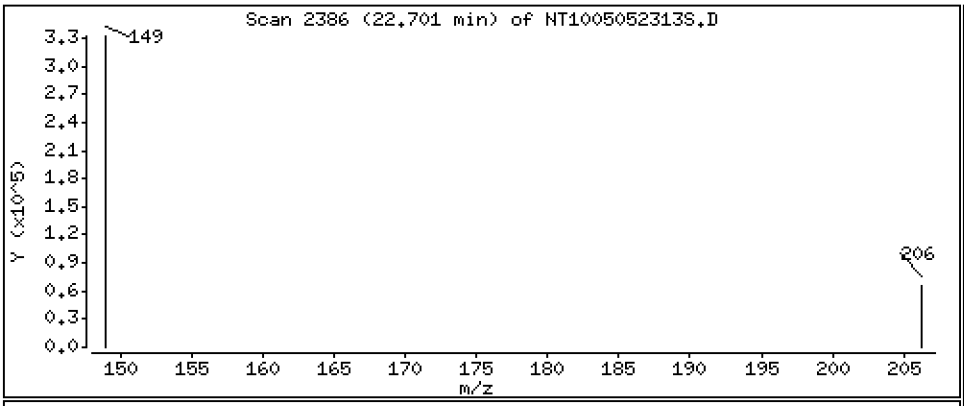
Client ID: Instrument: nt10.i

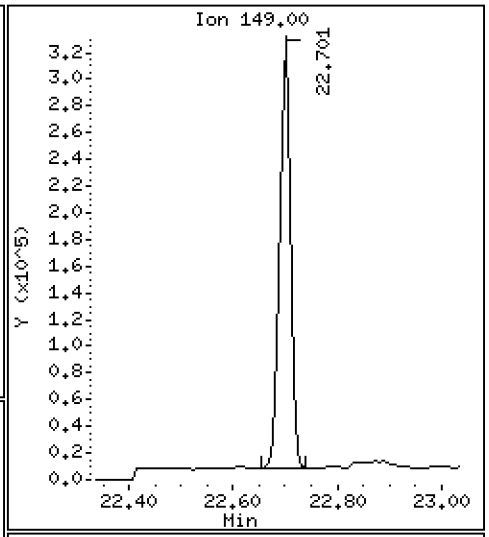
Sample Info: BLD0329-MS2

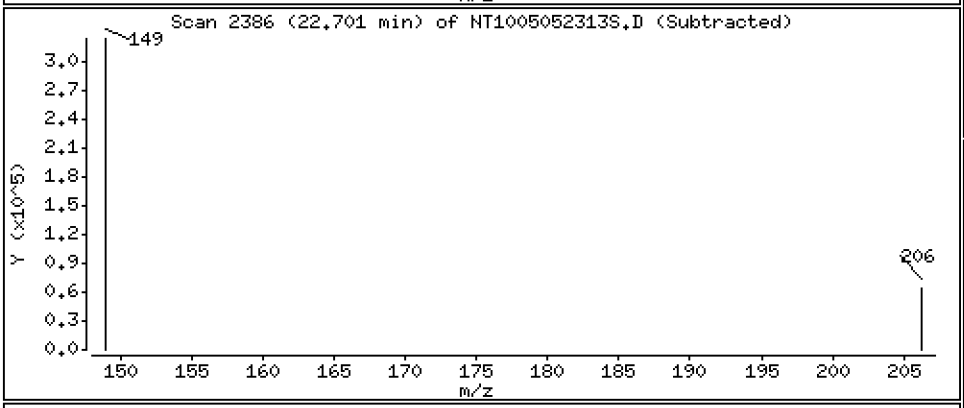
Volume Injected (uL): 1.0 Operator: DSD

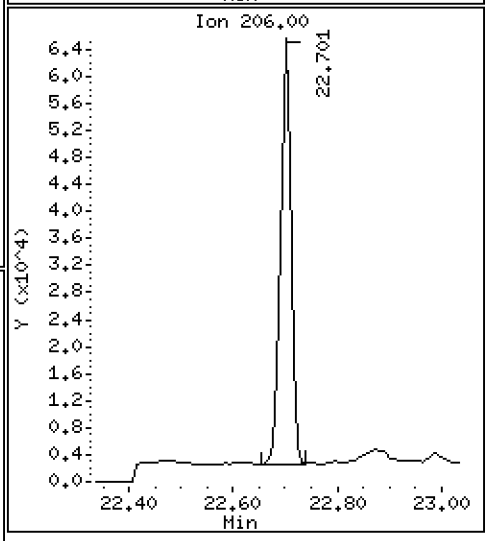
Column phase: ZB-5msi Column diameter: 0.25

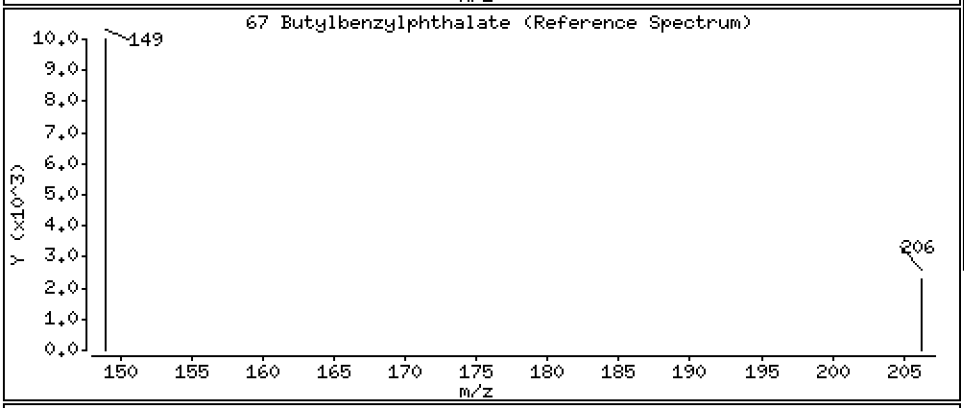
67 Butylbenzylphthalate Concentration: 4.132 ug/L

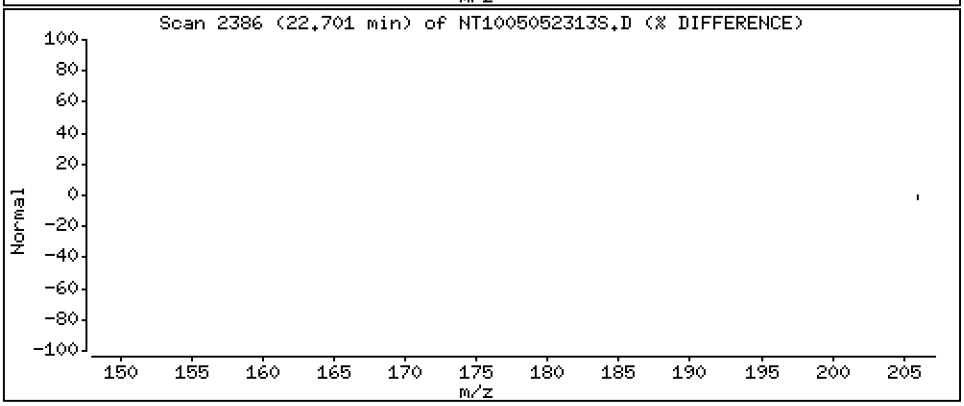












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

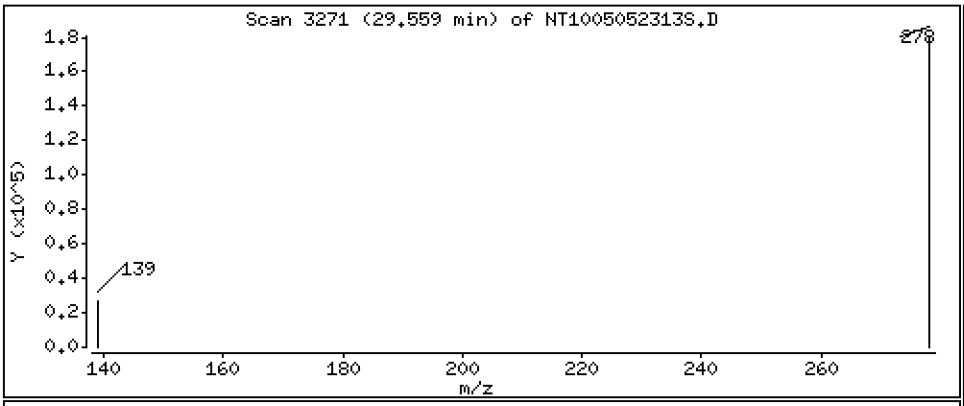
Operator: DSD

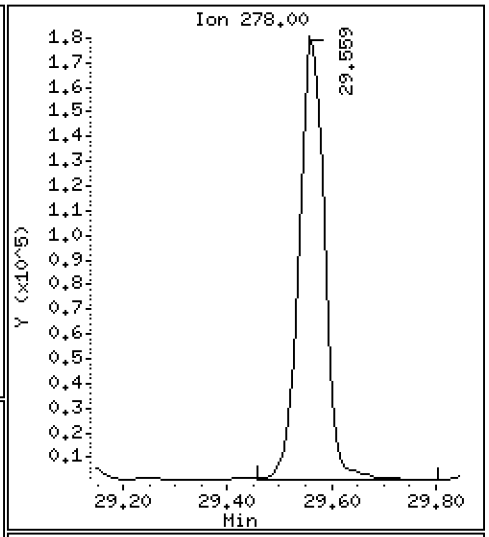
Column phase: ZB-5msi

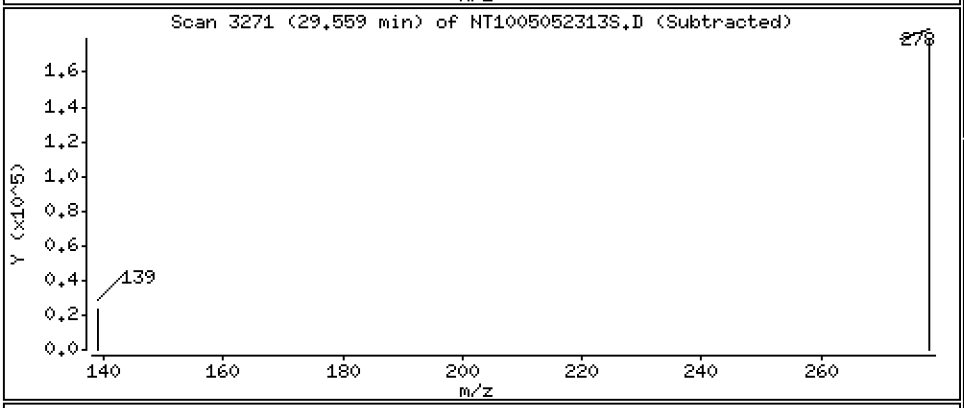
Column diameter: 0.25

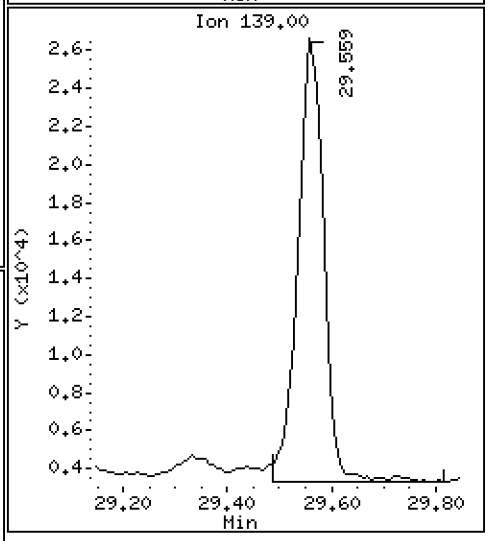
79 Dibenzo(a,h)anthracene

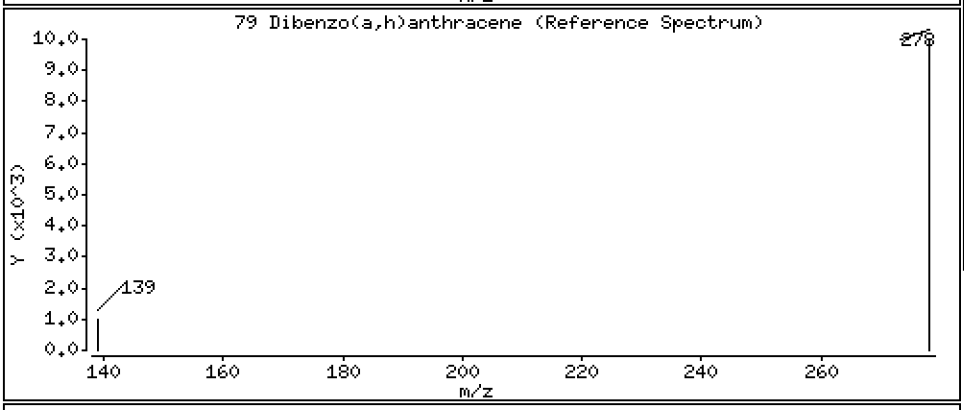
Concentration: 3.827 ug/L

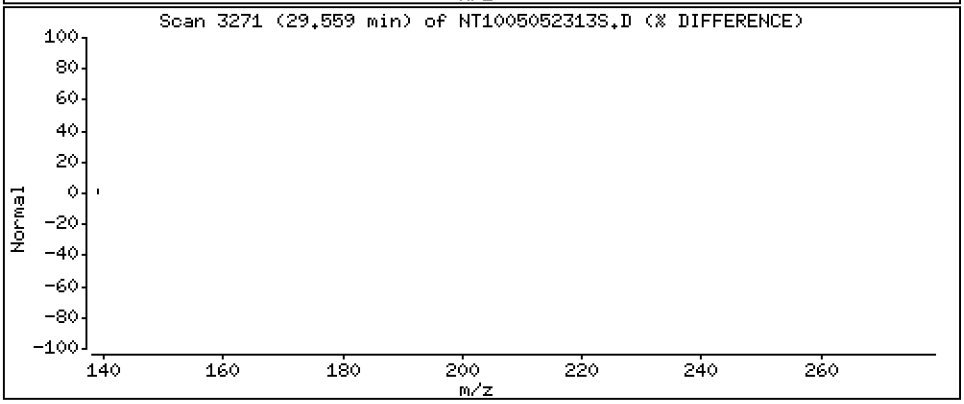












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D

Date : 05-MAY-2023 18:32

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MS2

Volume Injected (uL): 1.0

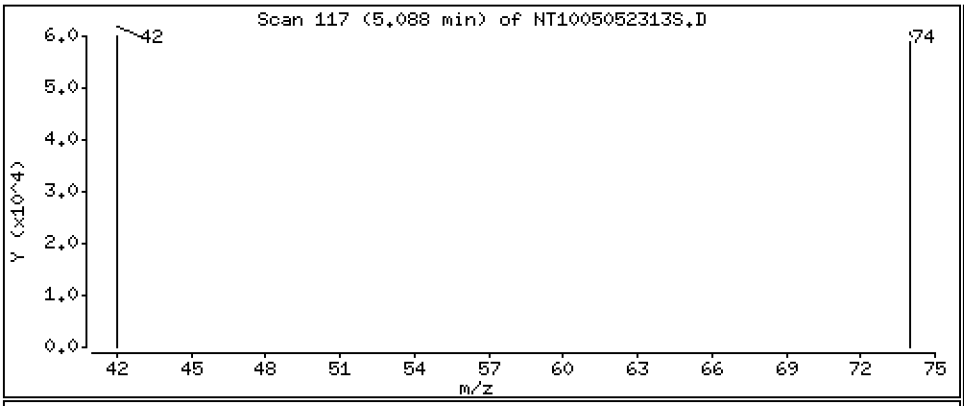
Operator: DSD

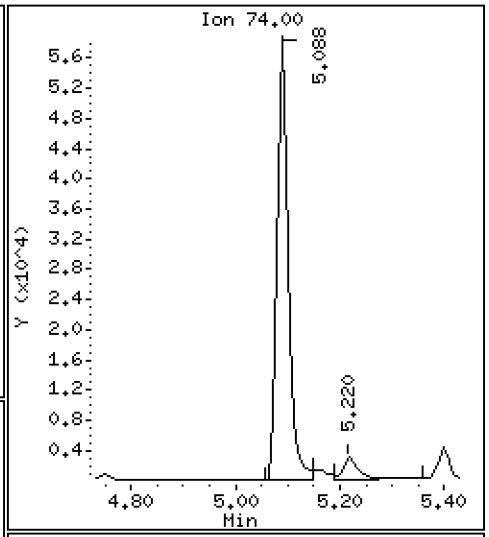
Column phase: ZB-5msi

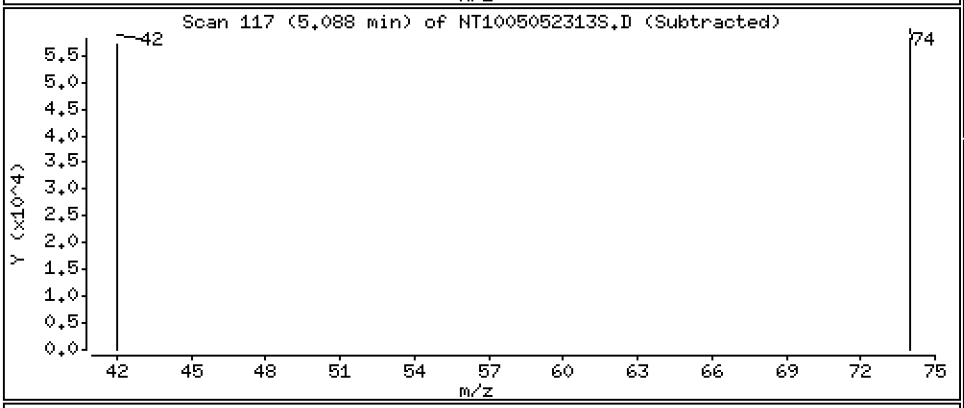
Column diameter: 0.25

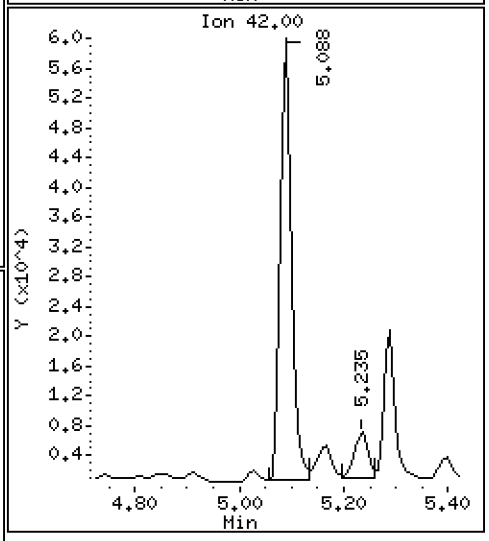
90 N-Nitrosodimethylamine

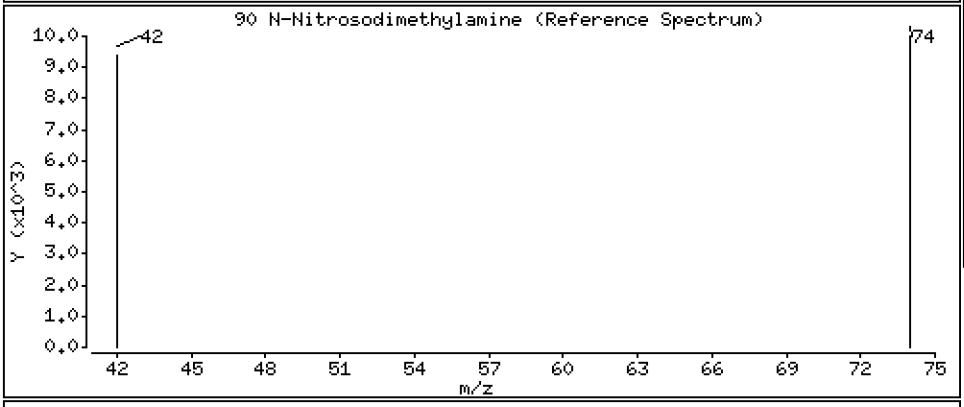
Concentration: 2.500 ug/L

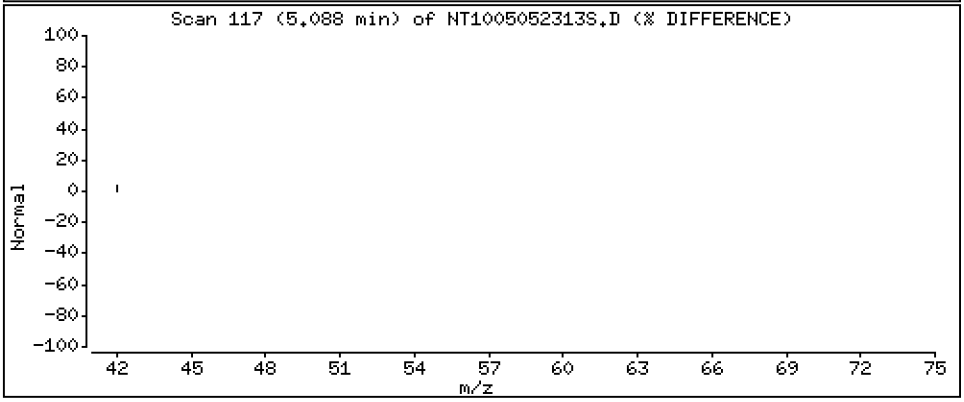












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052313S.D
Lab Smp Id: BLD0329-MS2
Inj Date : 05-MAY-2023 18:32 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0329-MS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.251	7.243	(0.763)	223230	3.53698	3.537(R)
3	Phenol	94	8.850	8.842	(0.932)	247077	3.12529	3.125
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	233337	2.80644	2.806
* 8	1,4-Dichlorobenzene-d4	152	9.500	9.492	(1.000)	207184	4.00000	
9	1,4-Dichlorobenzene	146	9.531	9.523	(1.003)	233130	2.83108	2.831
11	Benzyl alcohol	79	9.756	9.756	(1.027)	318033	5.81713	5.817
12	1,2-Dichlorobenzene	146	9.888	9.880	(1.041)	228179	2.88092	2.881
13	2-Methylphenol	108	9.973	9.965	(1.050)	186123	3.14576	3.146
15	4-Methylphenol	108	10.253	10.237	(1.079)	226208	3.63619	3.636
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.086)	173955	3.87538	3.875
22	2,4-Dimethylphenol	107	11.296	11.288	(0.942)	722253	9.42095	9.421
24	Benzoic acid	105	11.458	11.381	(0.955)	494851	9.55496	9.555
26	1,2,4-Trichlorobenzene	180	11.904	11.896	(0.992)	231544	2.94384	2.944
* 27	Naphthalene-d8	136	11.996	11.988	(1.000)	771571	4.00000	
30	Hexachlorobutadiene	225	12.390	12.382	(1.033)	161889	3.22361	3.224
39	Dimethylphthalate	163	15.107	15.099	(0.967)	532589	3.69949	3.699
* 42	Acenaphthene-d10	162	15.625	15.617	(1.000)	379771	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.060)	736253	4.76301	4.763
54	N-Nitrosodiphenylamine	169	16.962	16.954	(0.908)	356448	3.62755	3.628
57	Hexachlorobenzene	284	18.050	18.034	(0.966)	154430	3.20932	3.209

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.406	18.390	(0.986)	350251	10.9311	10.93
*	59 Phenanthrene-d10	188	18.677	18.669	(1.000)	753456	4.00000	
$	66 Terphenyl-d14	244	21.787	21.771	(0.919)	494124	3.86809	3.868(R)
	67 Butylbenzylphthalate	149	22.701	22.685	(0.958)	449426	4.13168	4.132
*	69 Chrysene-d12	240	23.707	23.684	(1.000)	592431	4.00000	
*	77 Perylene-d12	264	26.556	26.517	(1.000)	491005	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.558	29.496	(1.113)	606606	3.82735	3.827
	90 N-Nitrosodimethylamine	74	5.088	5.080	(0.536)	86086	2.50031	2.500

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052313S.D
Lab Smp Id: BLD0329-MS2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	207184	13.40
27 Naphthalene-d8	662220	331110	1324440	771571	16.51
42 Acenaphthene-d10	335558	167779	671116	379771	13.18
59 Phenanthrene-d10	678190	339095	1356380	753456	11.10
69 Chrysene-d12	566969	283485	1133938	592431	4.49
77 Perylene-d12	522906	261453	1045812	491005	-6.10

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.07
42 Acenaphthene-d10	15.62	15.12	16.12	15.63	0.05
59 Phenanthrene-d10	18.67	18.17	19.17	18.68	0.04
69 Chrysene-d12	23.68	23.18	24.18	23.71	0.10
77 Perylene-d12	26.52	26.02	27.02	26.56	0.15

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

REVIEW SUMMARY FOR FILE - NT1005052313S.D

Lab ID: BLD0329-MS2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 18:32

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.955	0.949	0.0058	Benzoic acid

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523145.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

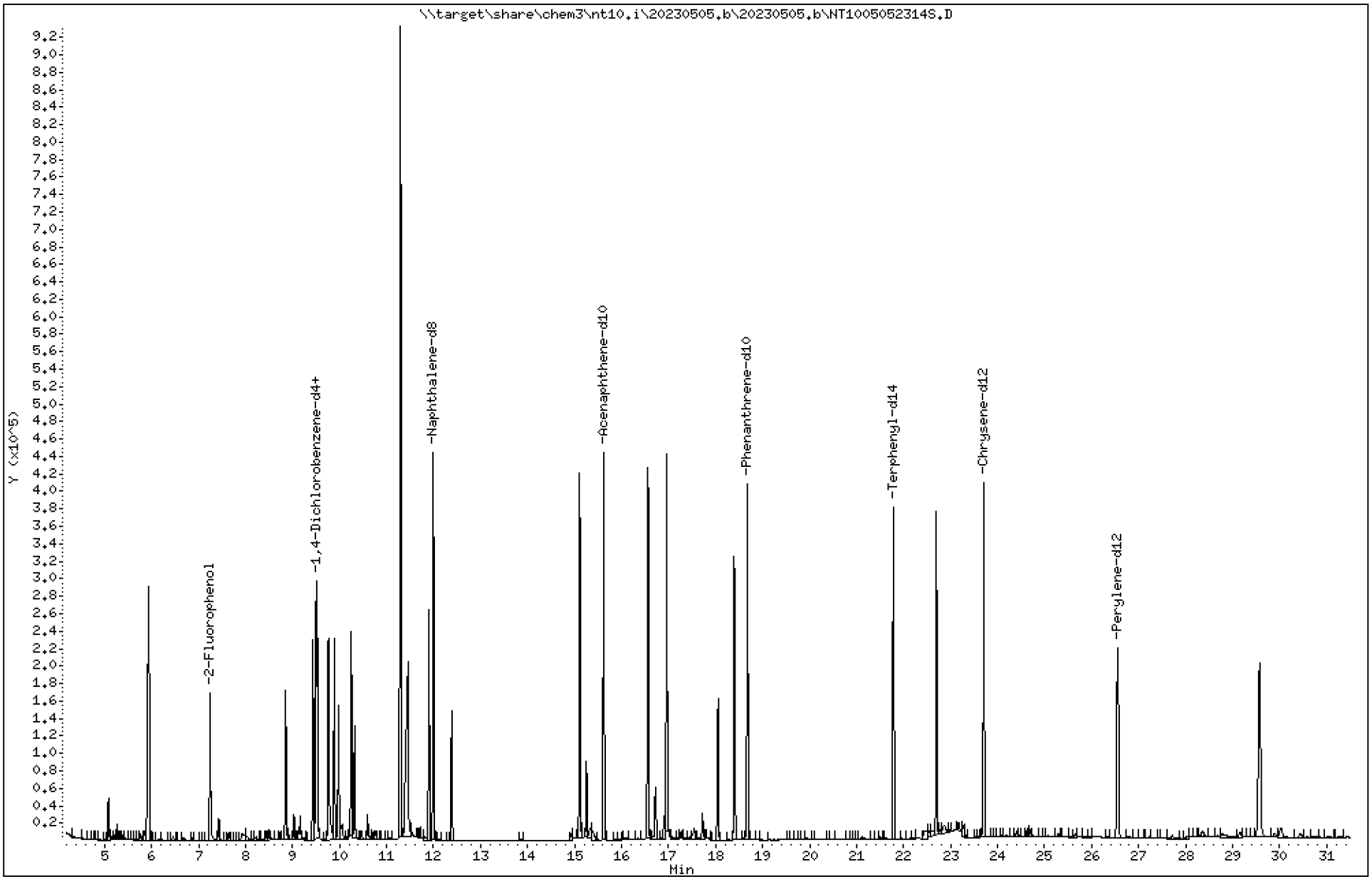
Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1637 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

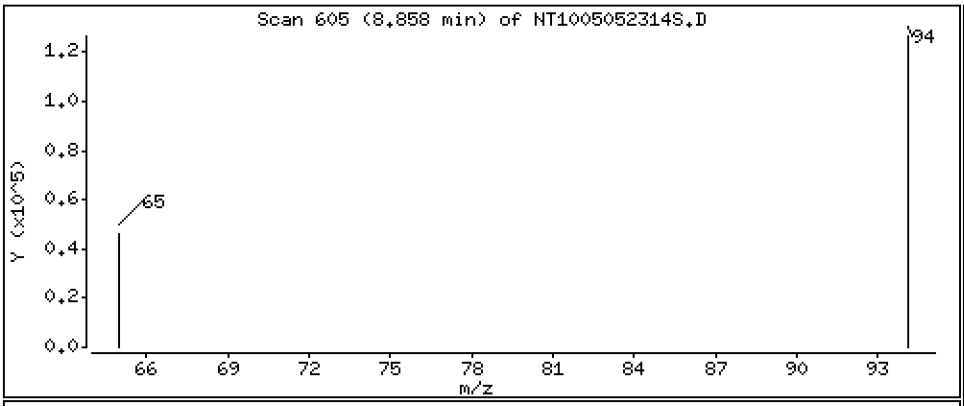
Operator: DSD

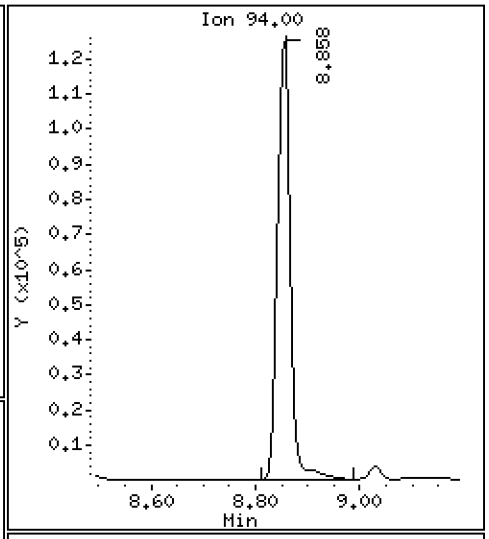
Column phase: ZB-5msi

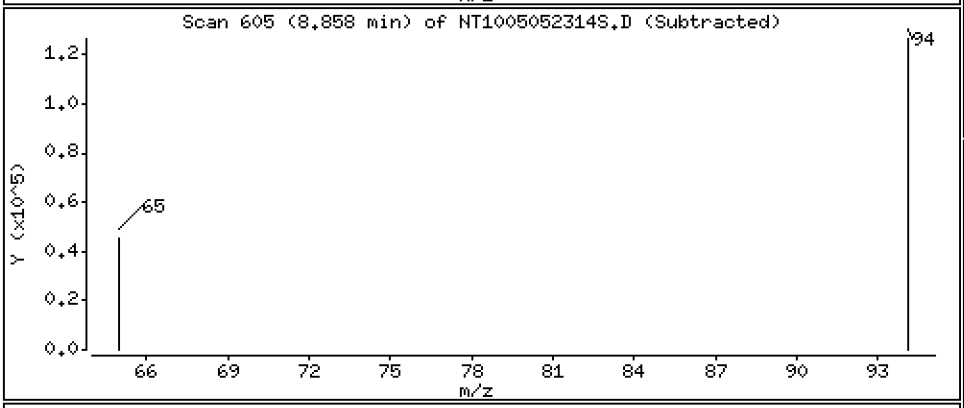
Column diameter: 0.25

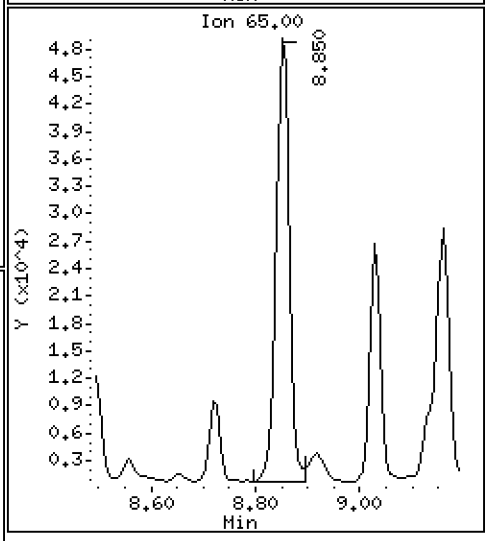
3 Phenol

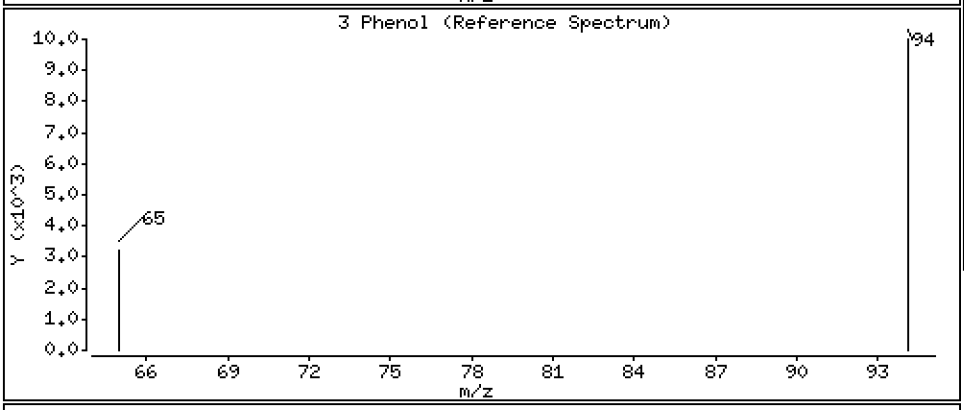
Concentration: 3.046 ug/L

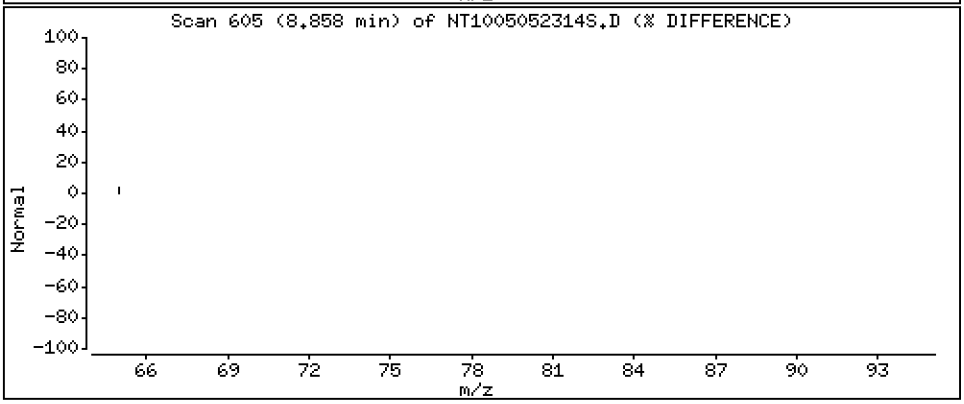












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

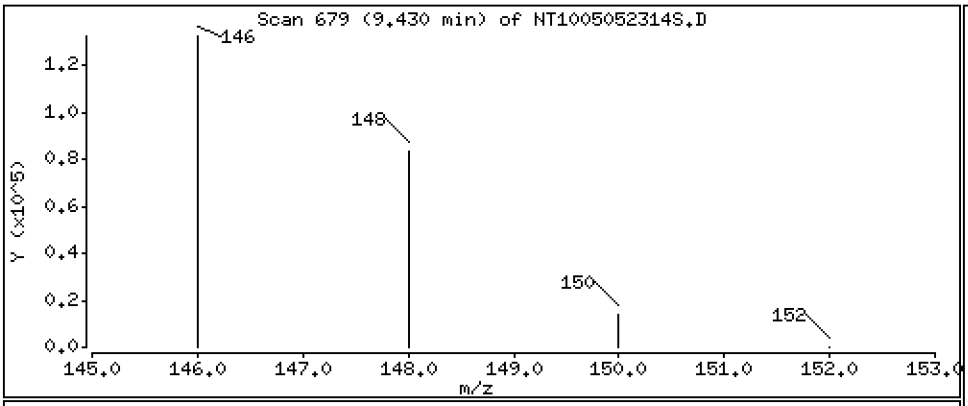
Operator: DSD

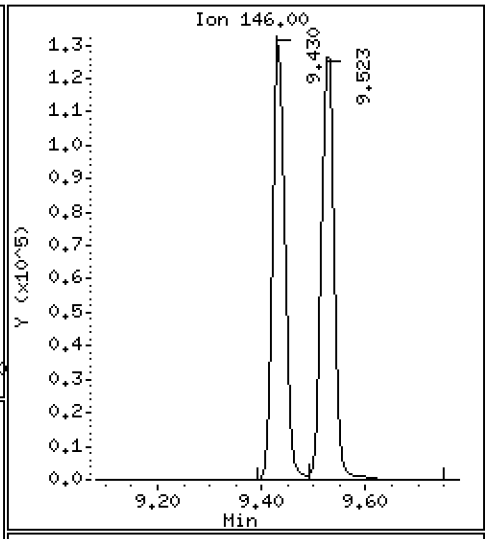
Column phase: ZB-5msi

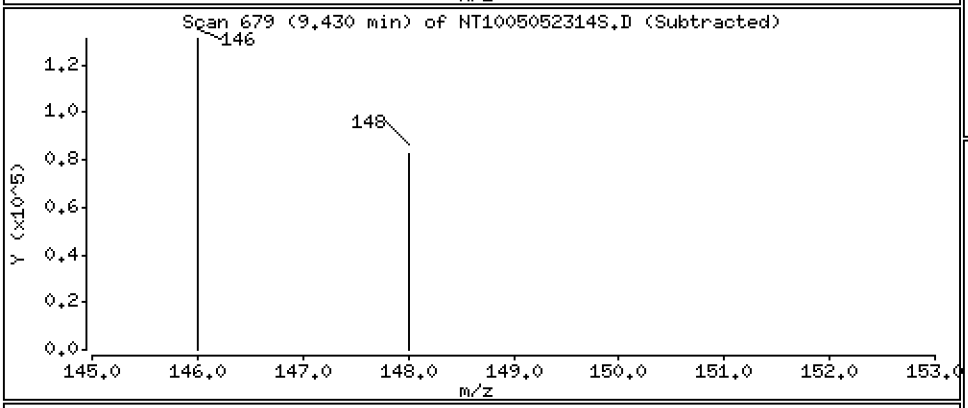
Column diameter: 0.25

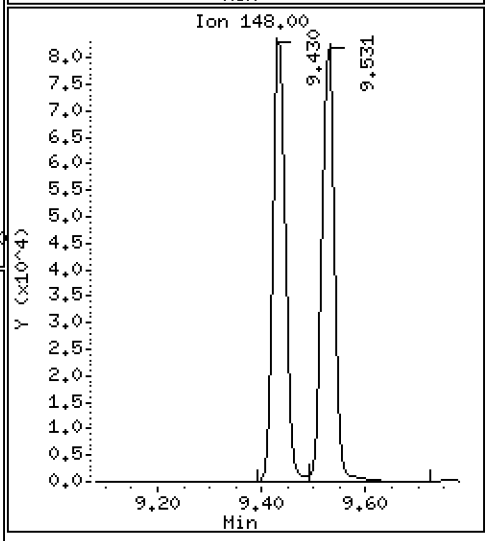
7 1,3-Dichlorobenzene

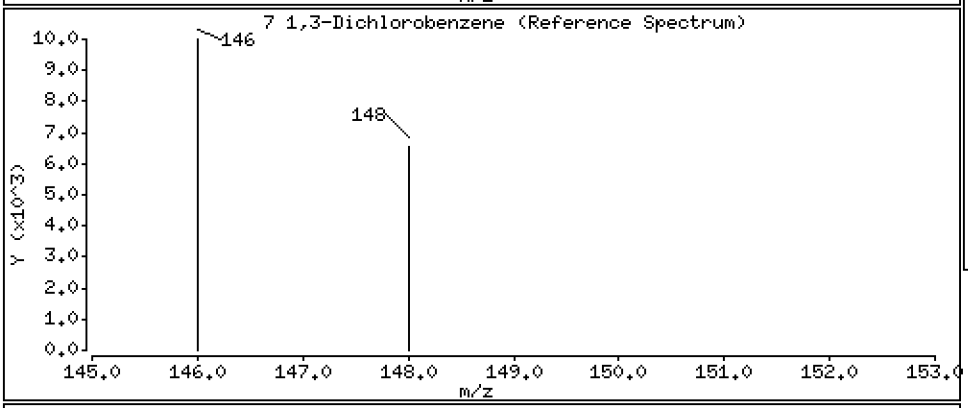
Concentration: 2.912 ug/L

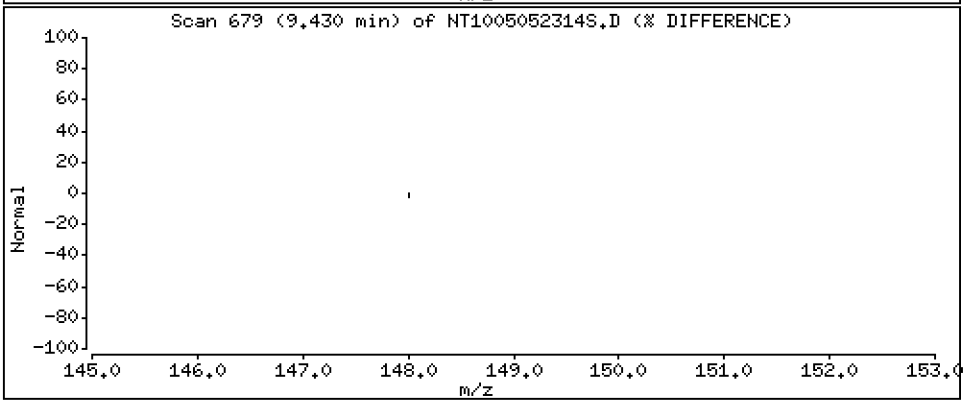












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

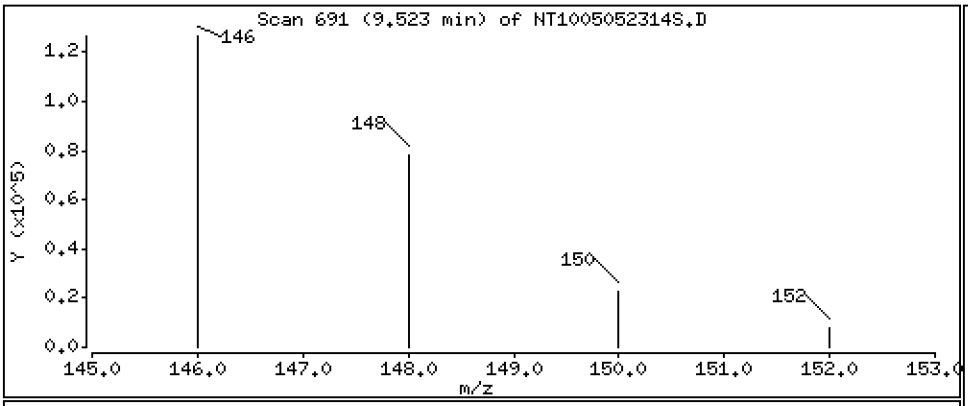
Operator: DSD

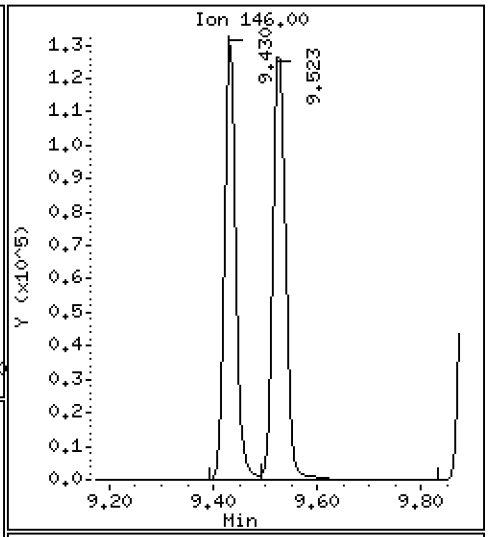
Column phase: ZB-5msi

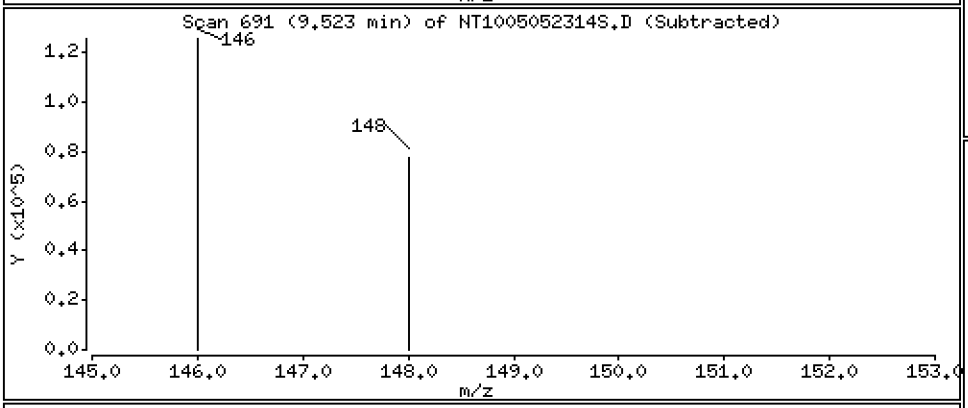
Column diameter: 0.25

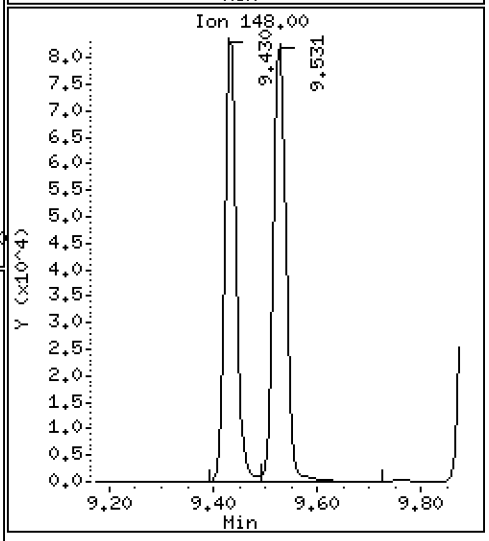
9 1,4-Dichlorobenzene

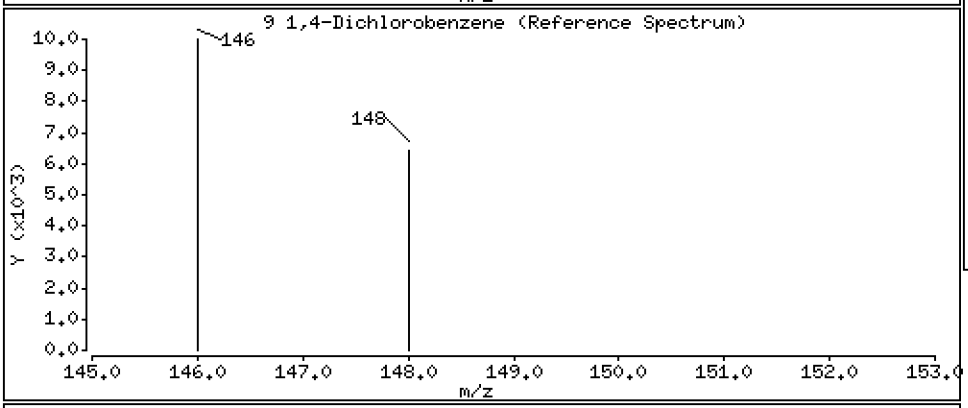
Concentration: 2.948 ug/L

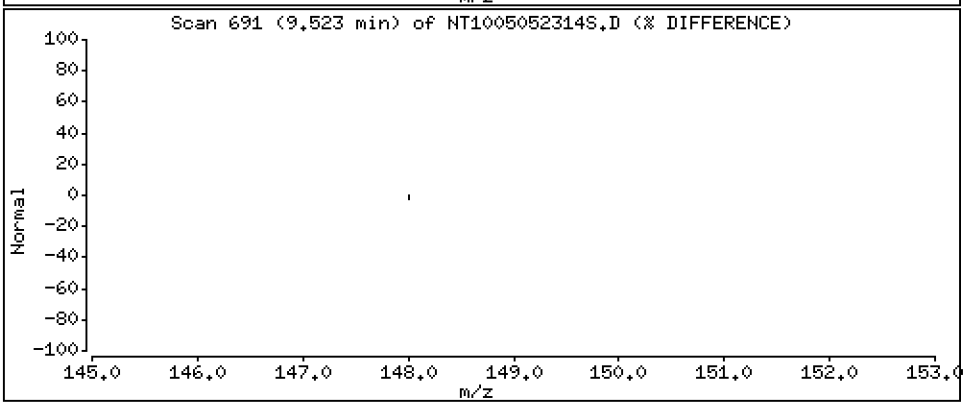












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

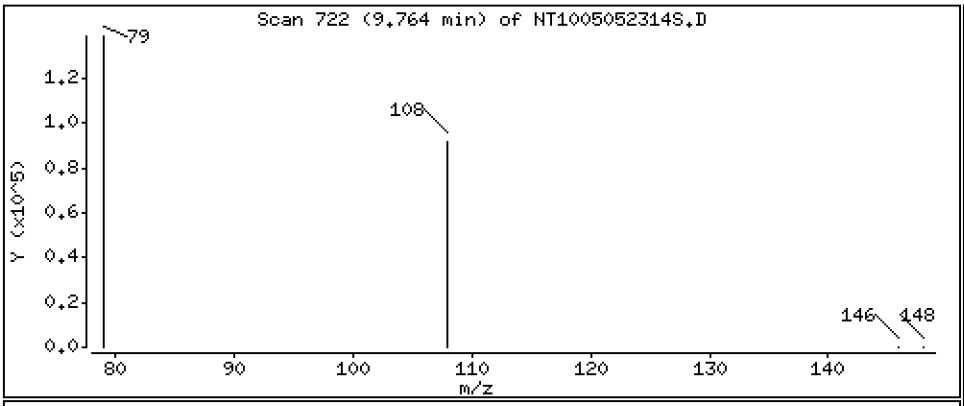
Operator: DSD

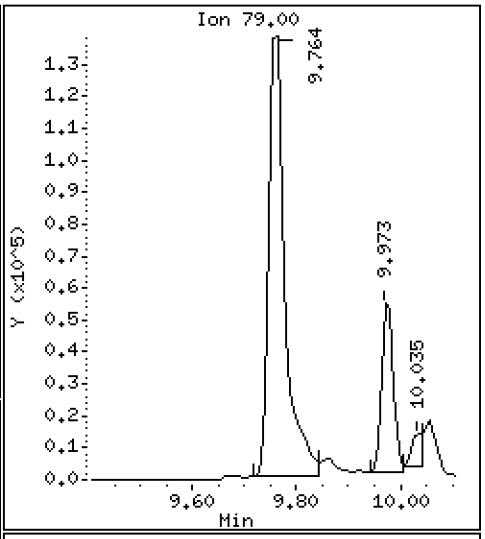
Column phase: ZB-5msi

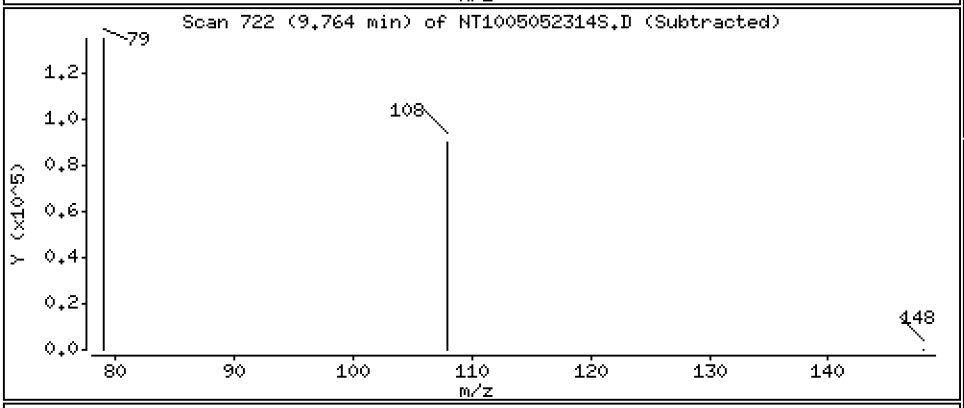
Column diameter: 0.25

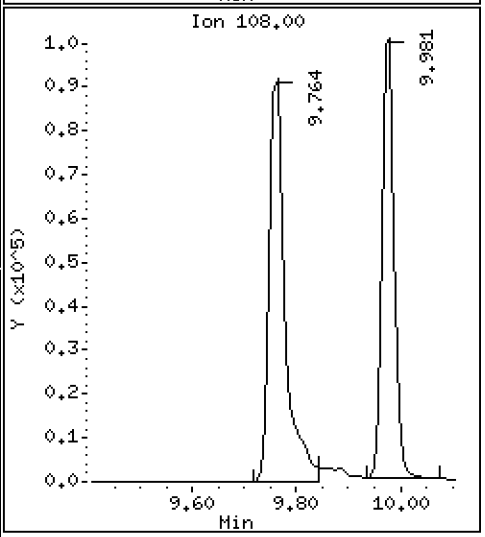
11 Benzyl alcohol

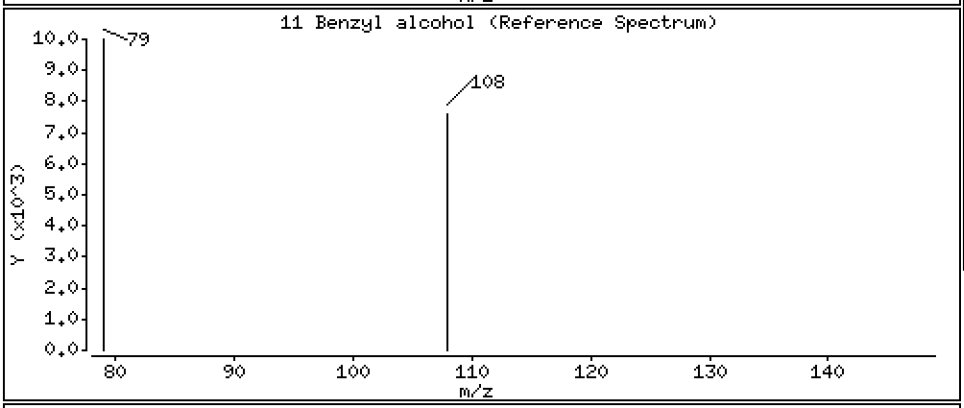
Concentration: 6.169 ug/L

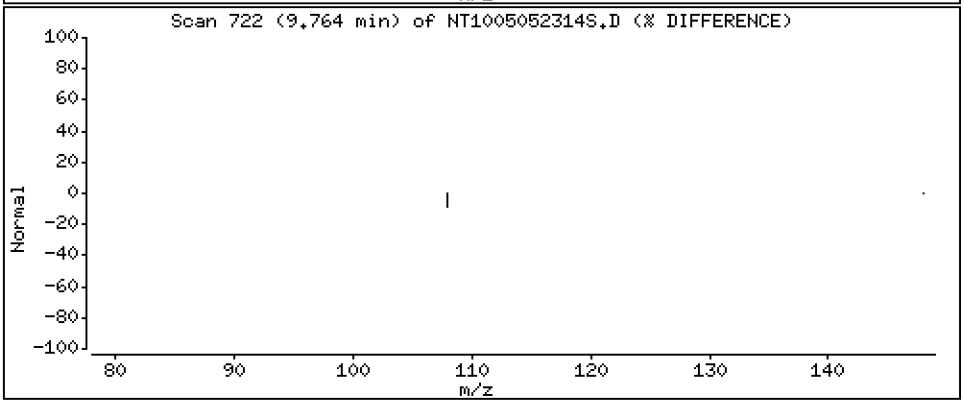












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

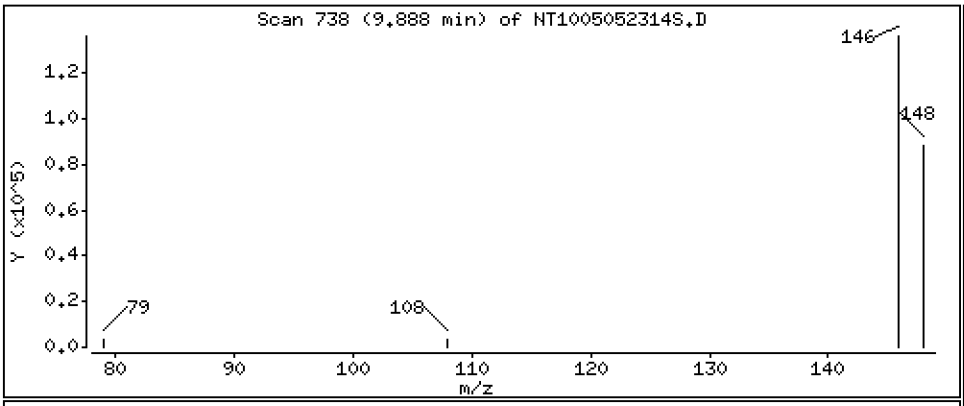
Operator: DSD

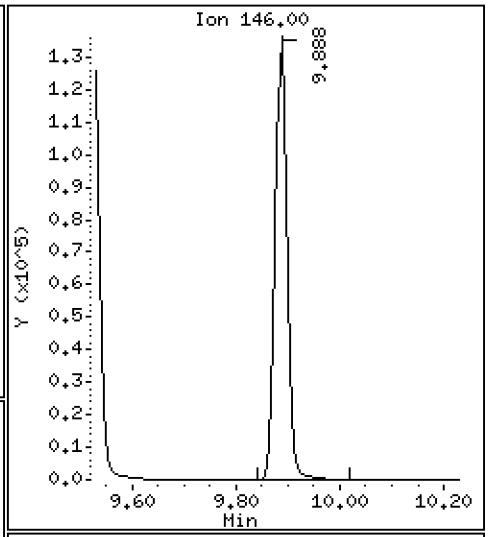
Column phase: ZB-5msi

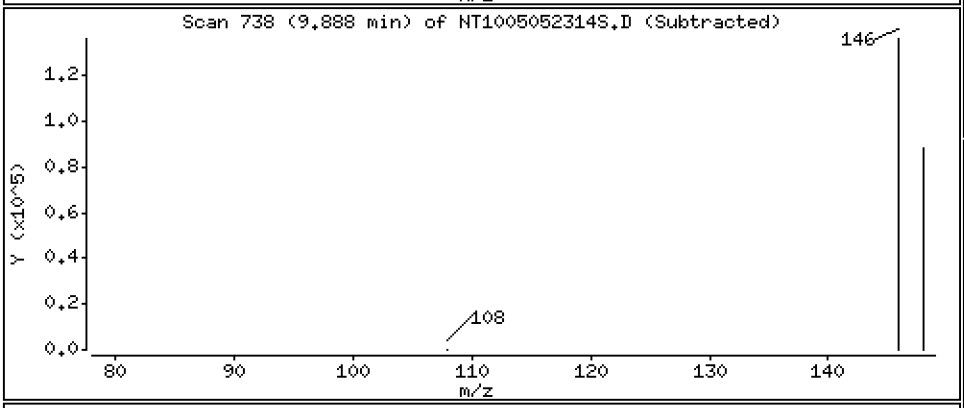
Column diameter: 0.25

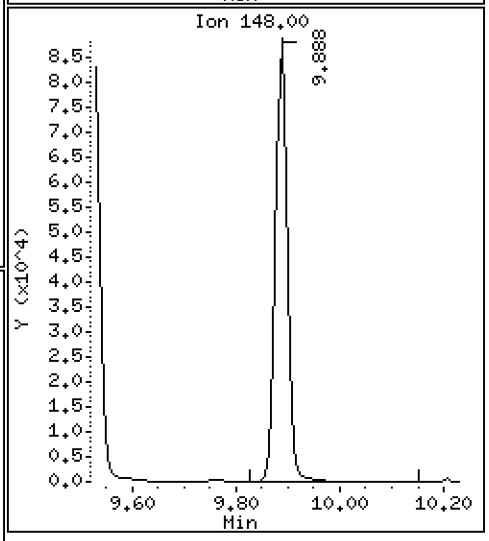
12 1,2-Dichlorobenzene

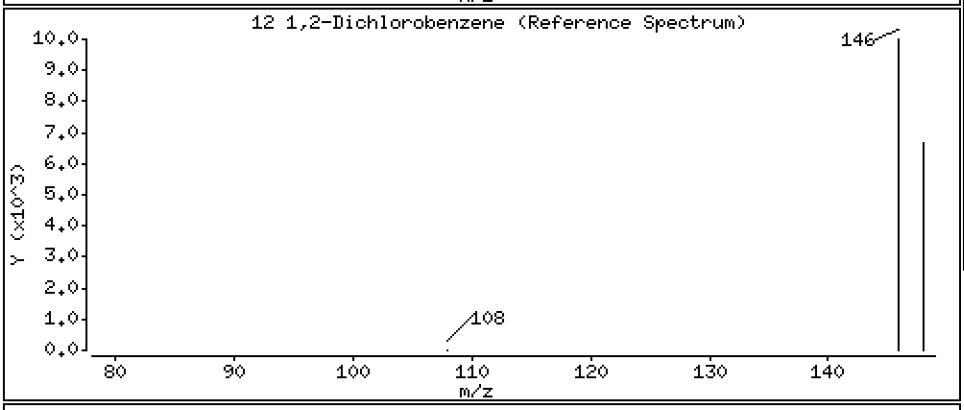
Concentration: 2.999 ug/L

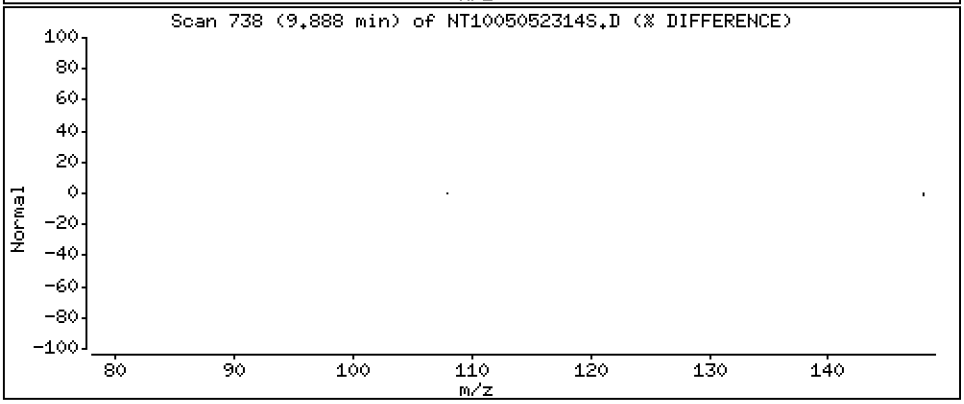












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

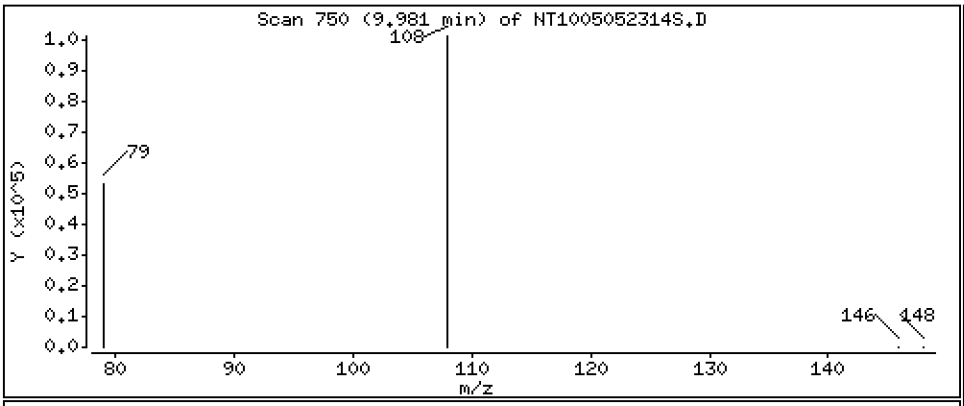
Operator: DSD

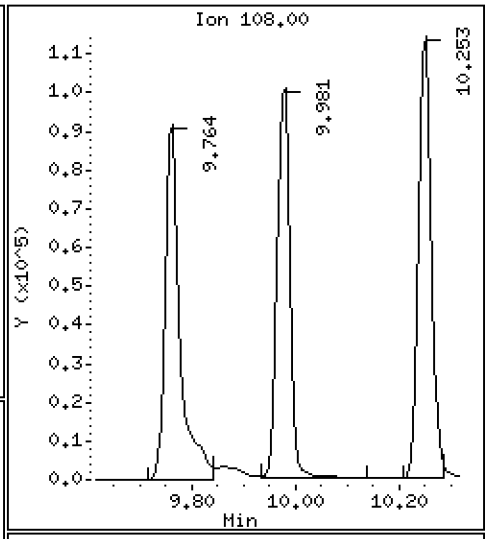
Column phase: ZB-5msi

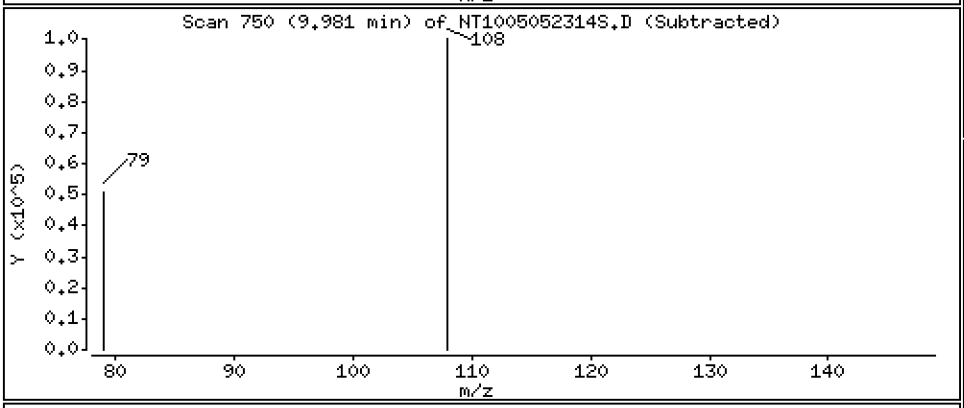
Column diameter: 0.25

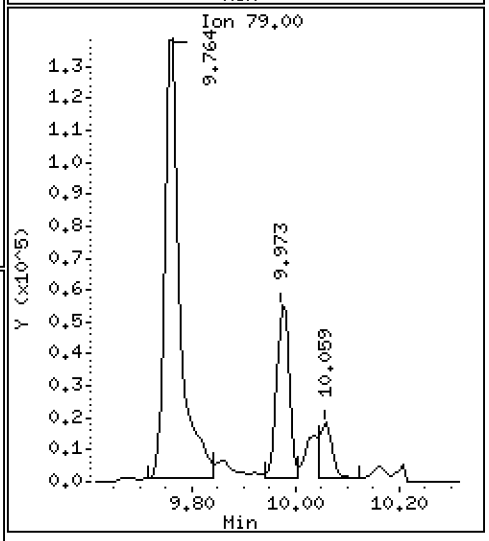
13 2-Methylphenol

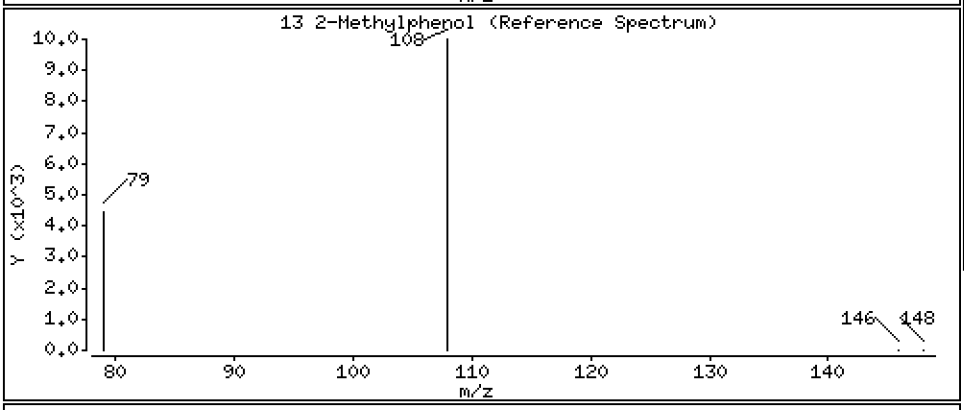
Concentration: 3.276 ug/L

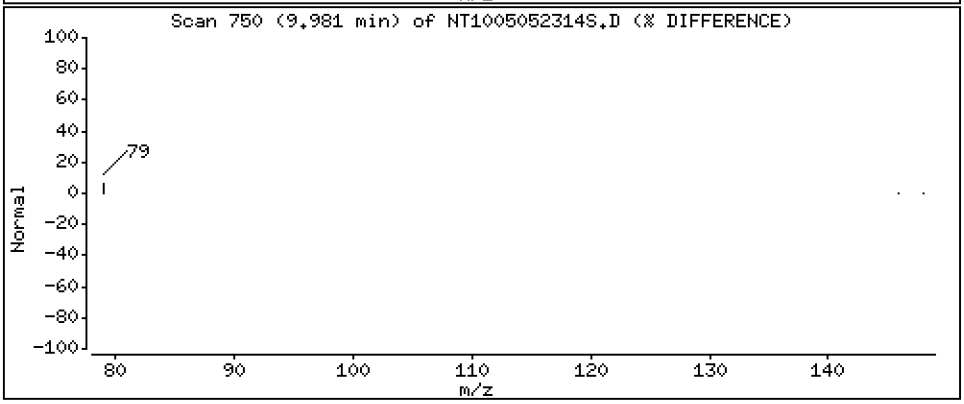












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

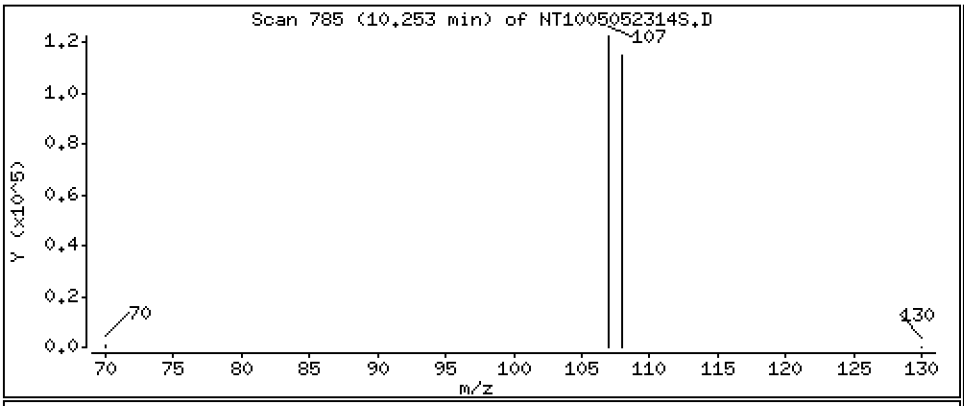
Operator: DSD

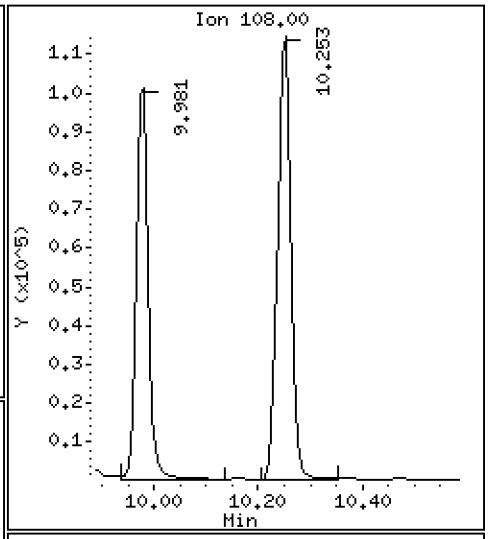
Column phase: ZB-5msi

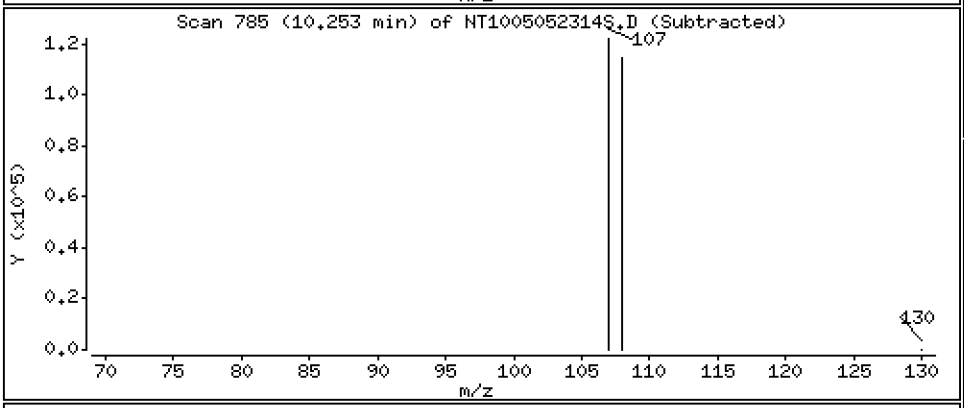
Column diameter: 0.25

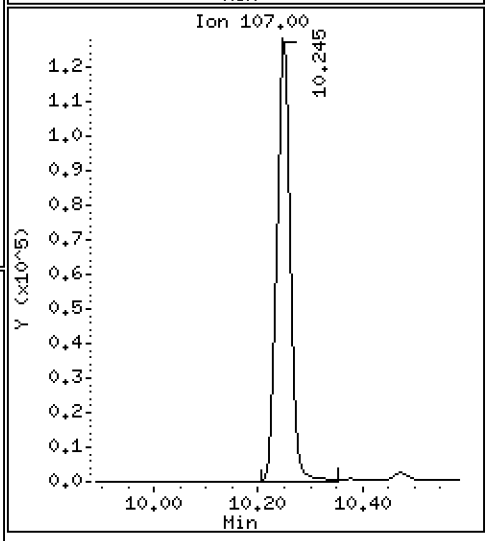
15 4-Methylphenol

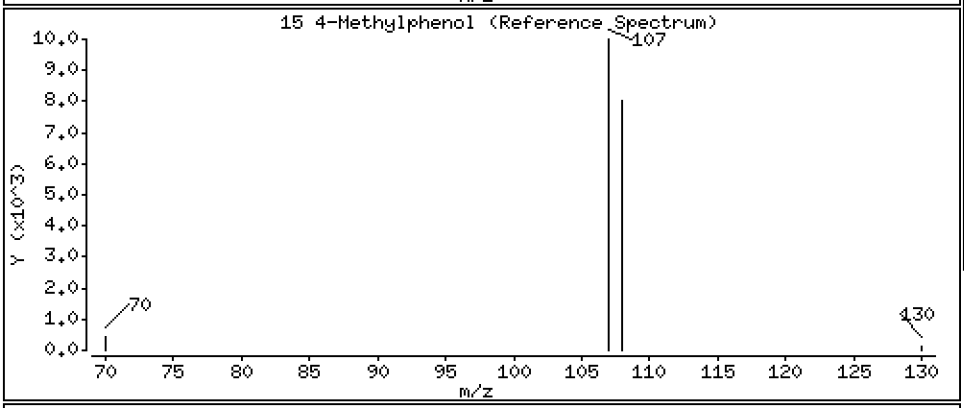
Concentration: 3.813 ug/L

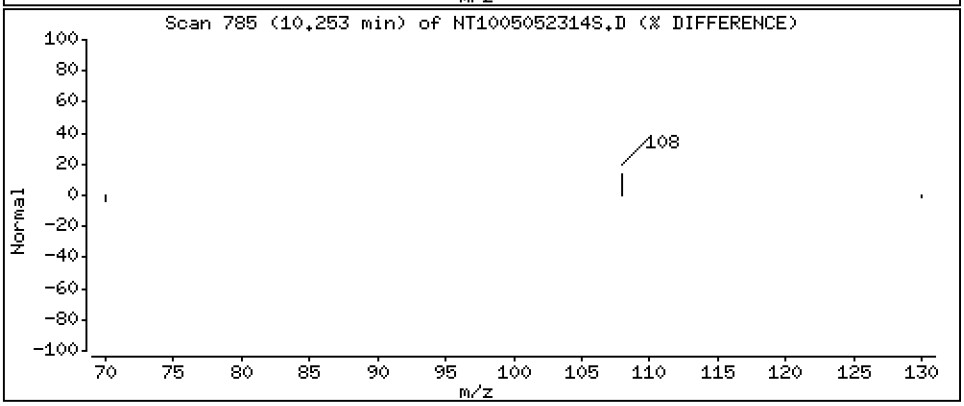












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

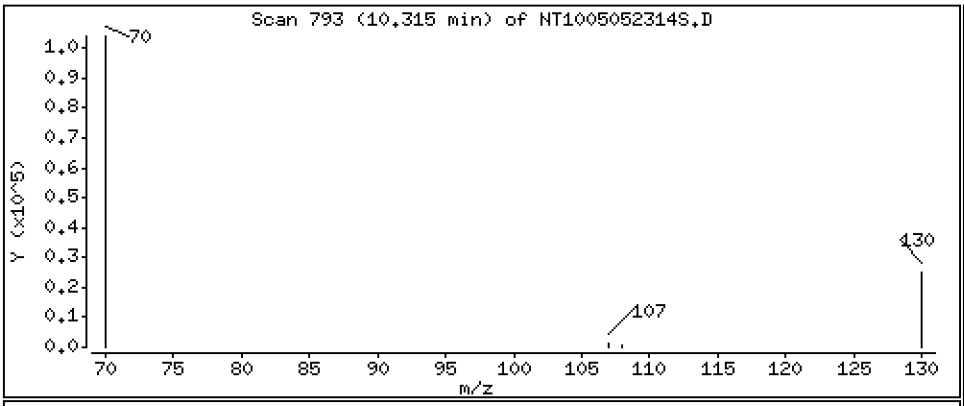
Operator: DSD

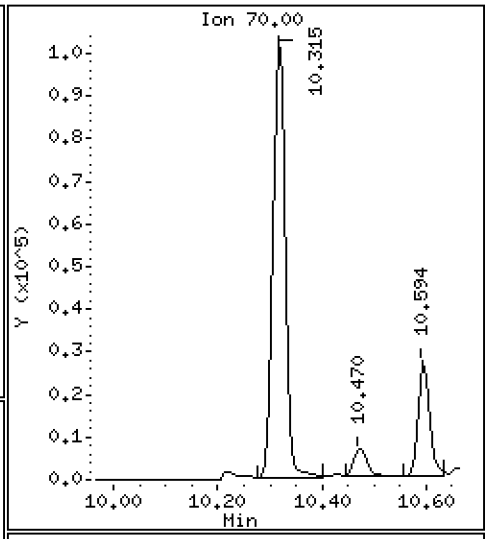
Column phase: ZB-5msi

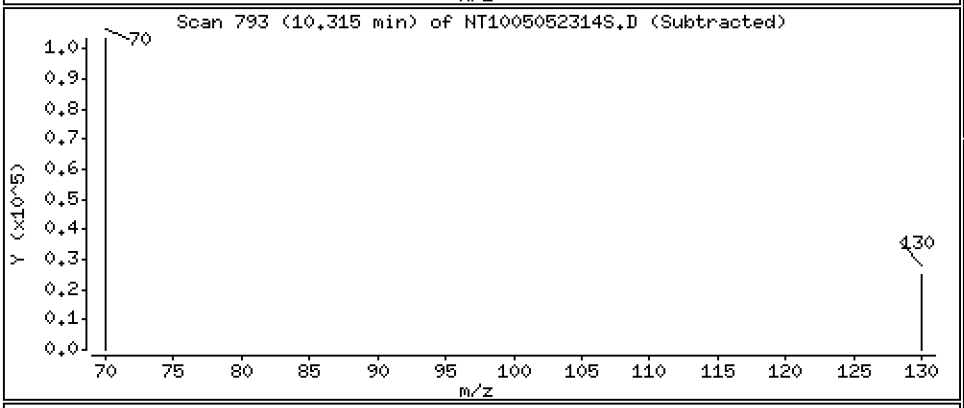
Column diameter: 0.25

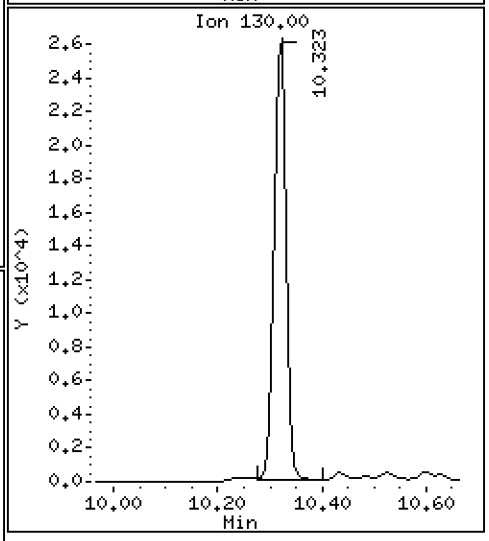
16 N-Nitroso-di-n-propylamine

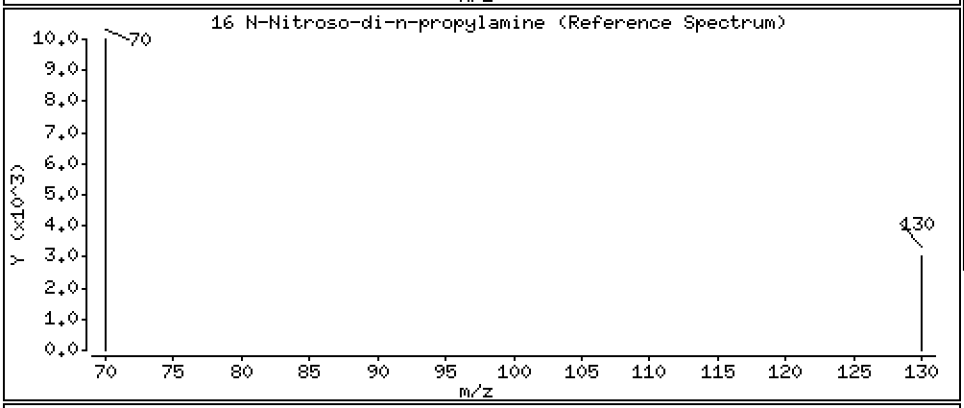
Concentration: 4.105 ug/L

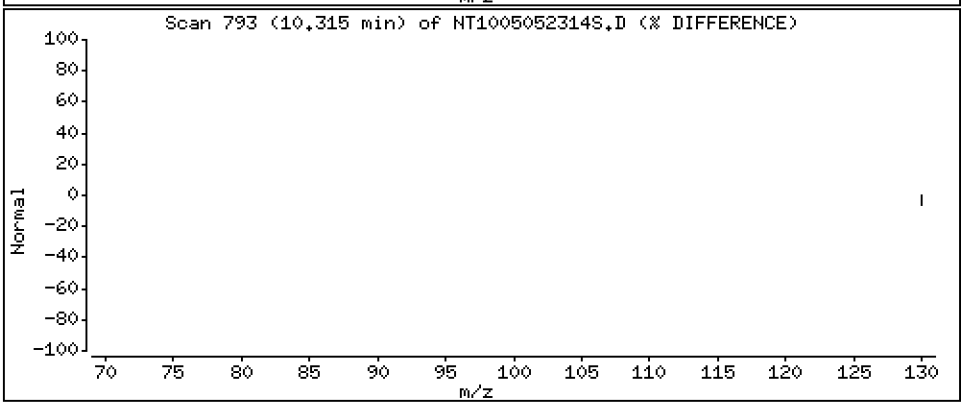












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

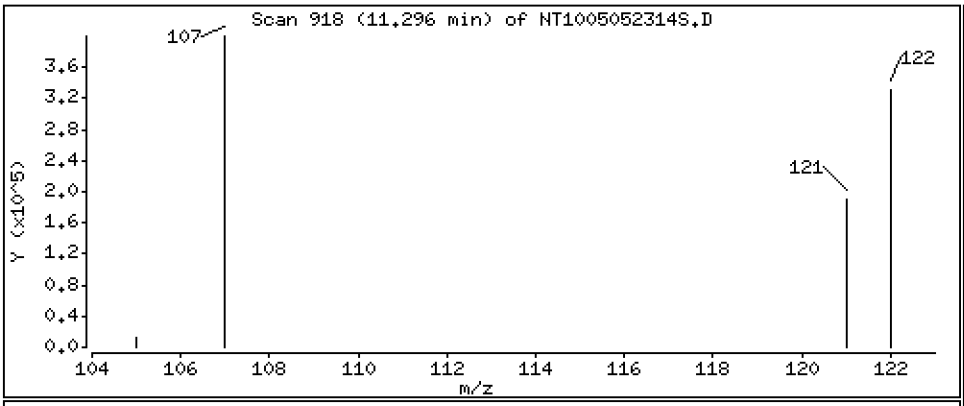
Operator: DSD

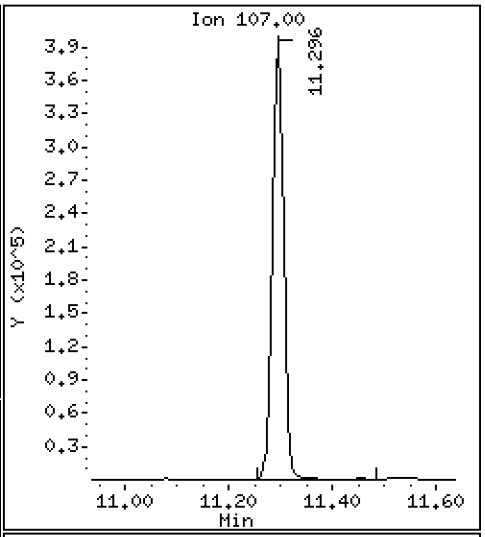
Column phase: ZB-5msi

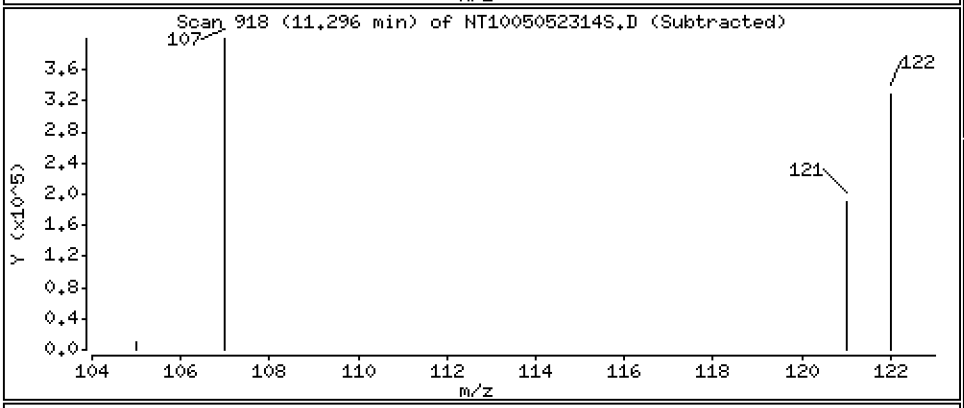
Column diameter: 0.25

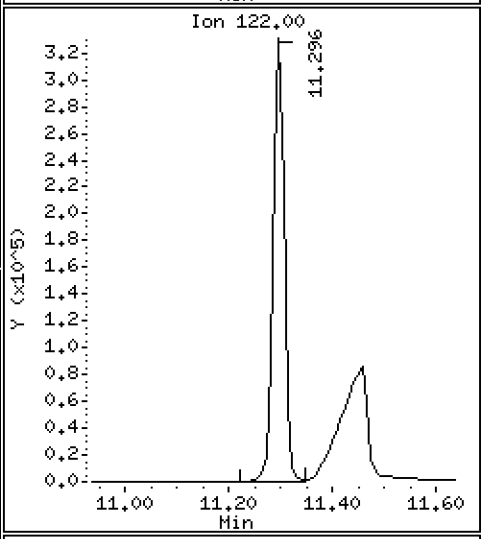
22 2,4-Dimethylphenol

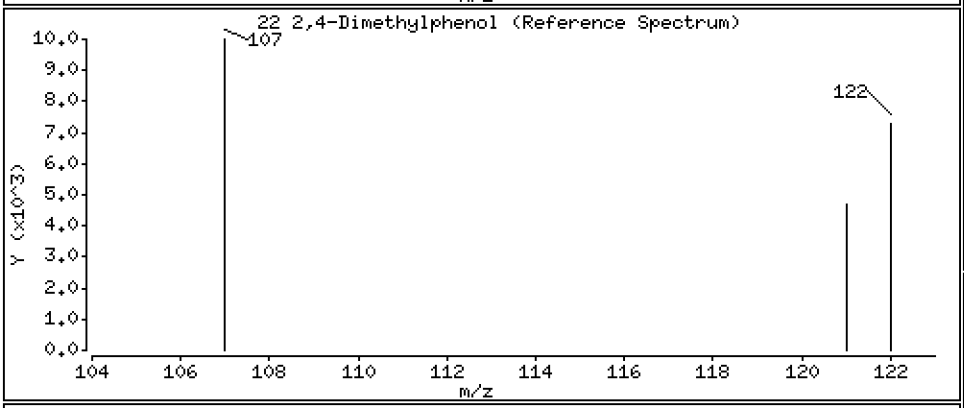
Concentration: 9.125 ug/L

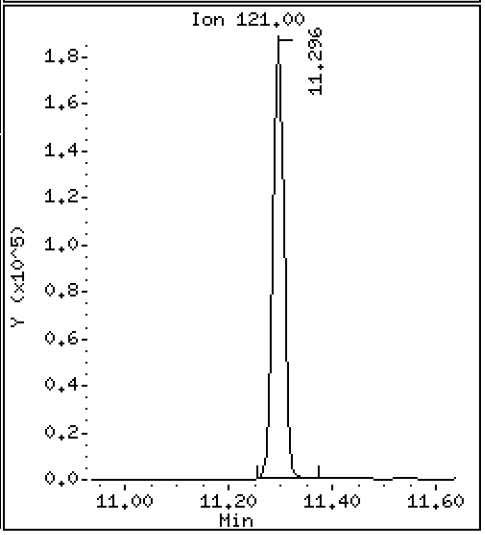


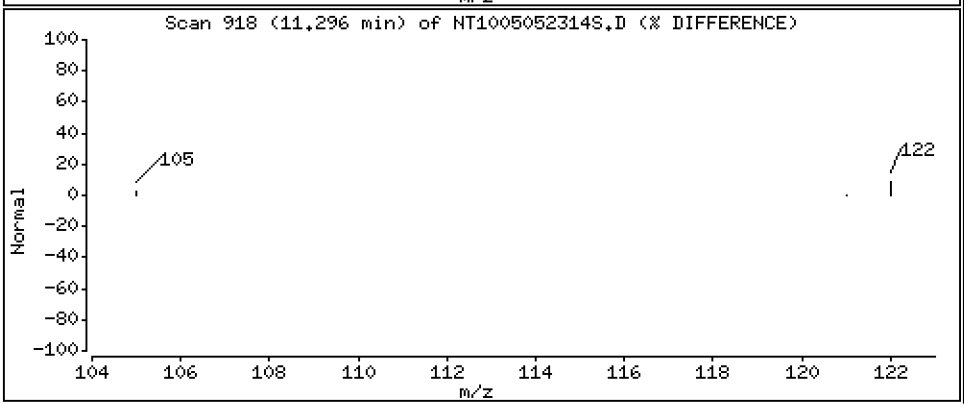












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

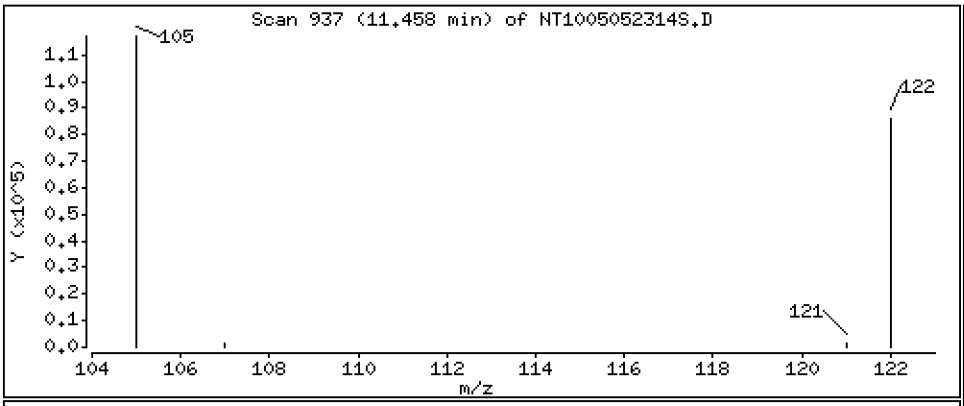
Operator: DSD

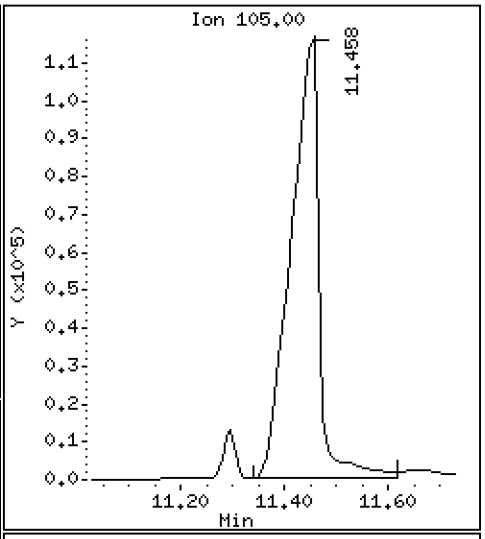
Column phase: ZB-5msi

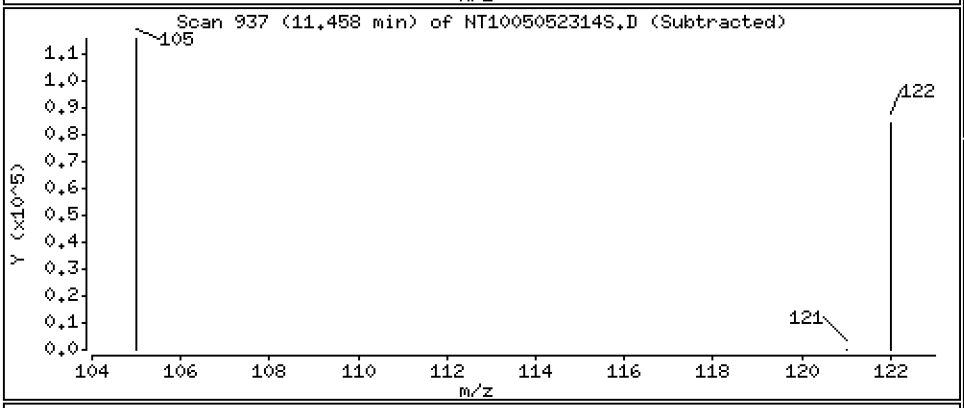
Column diameter: 0.25

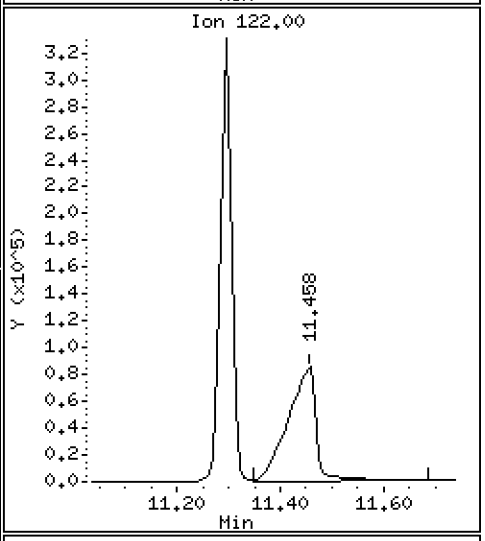
24 Benzoic acid

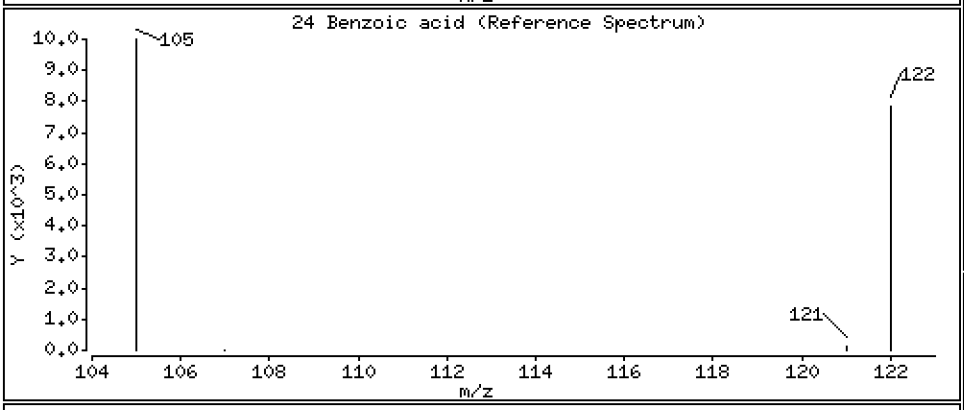
Concentration: 9.871 ug/L

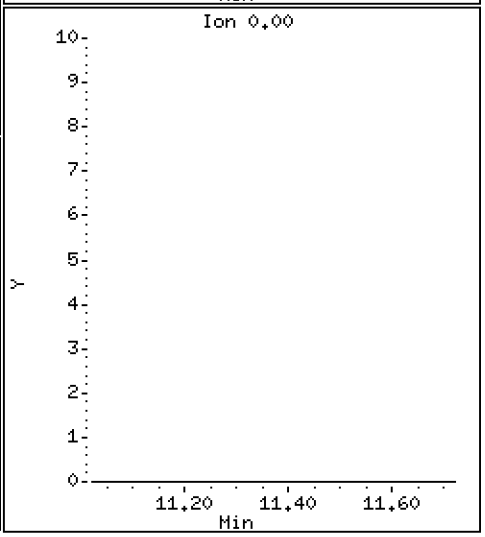


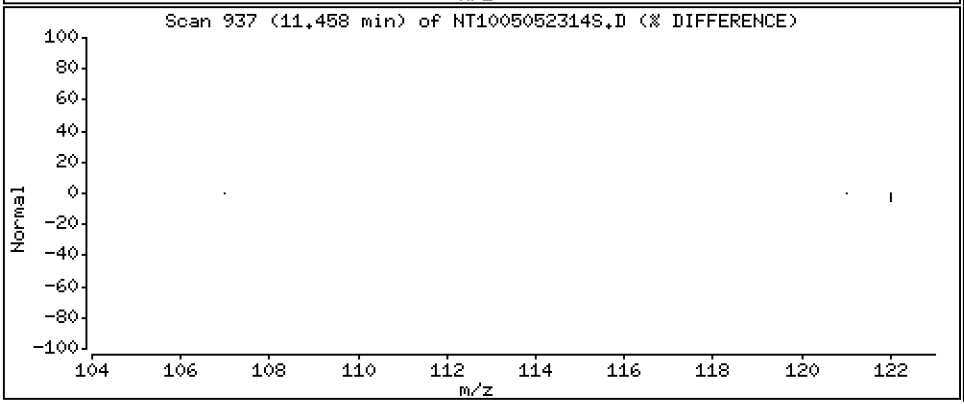












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

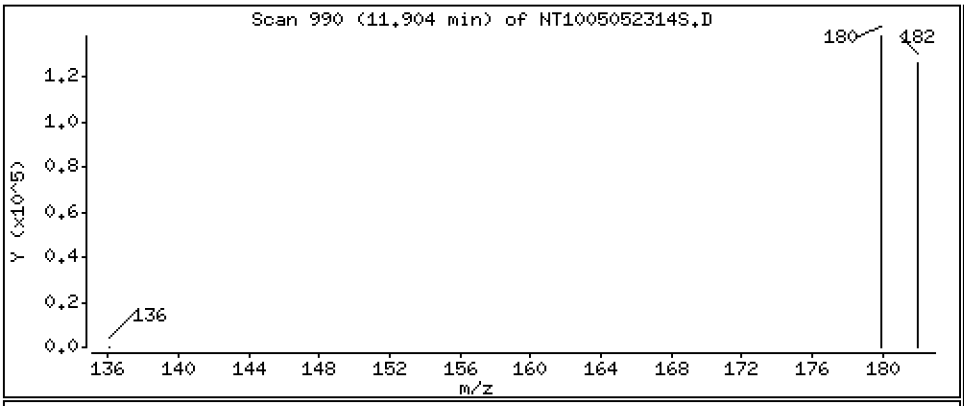
Operator: DSD

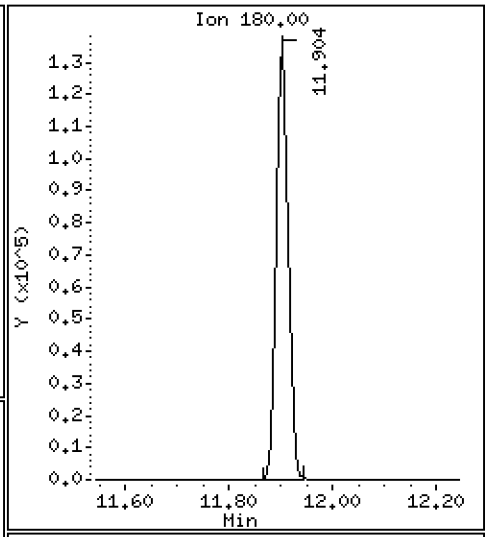
Column phase: ZB-5msi

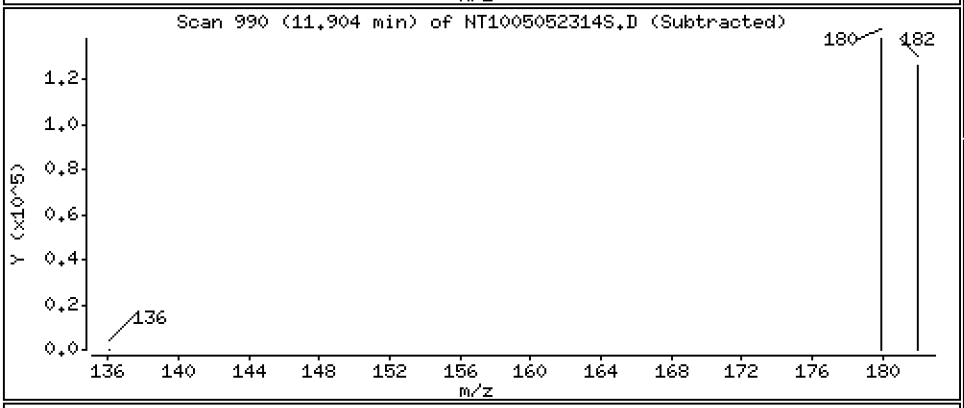
Column diameter: 0.25

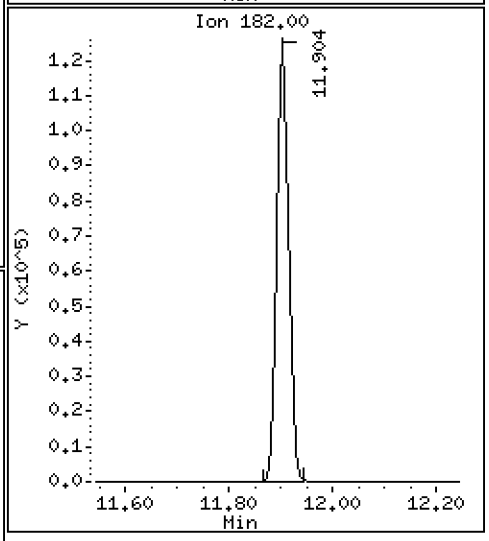
26 1,2,4-Trichlorobenzene

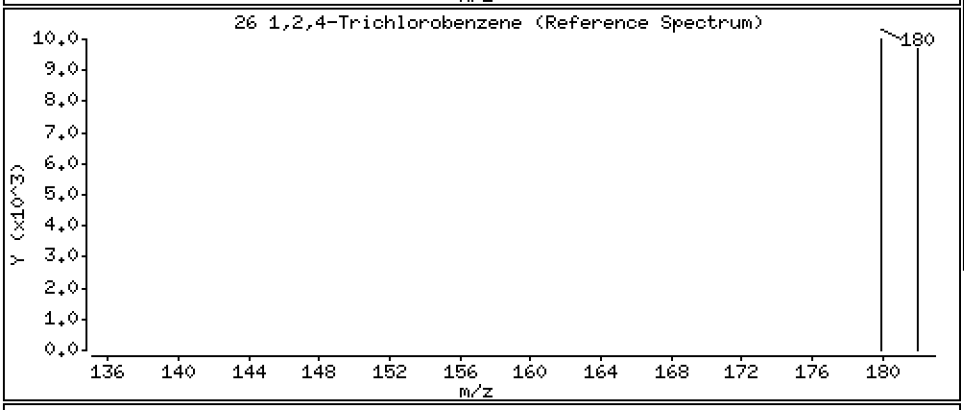
Concentration: 3.107 ug/L

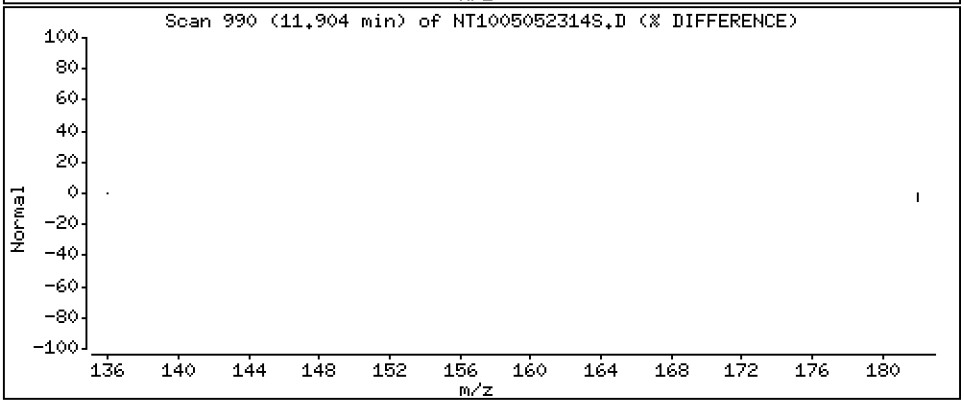












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

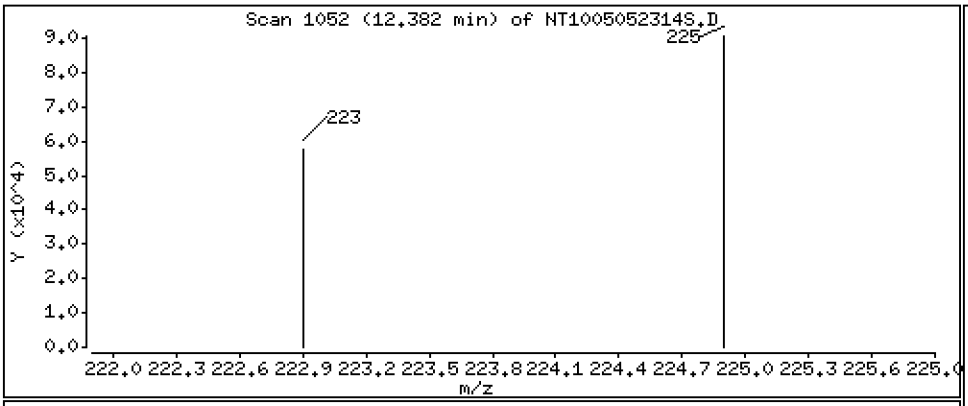
Operator: DSD

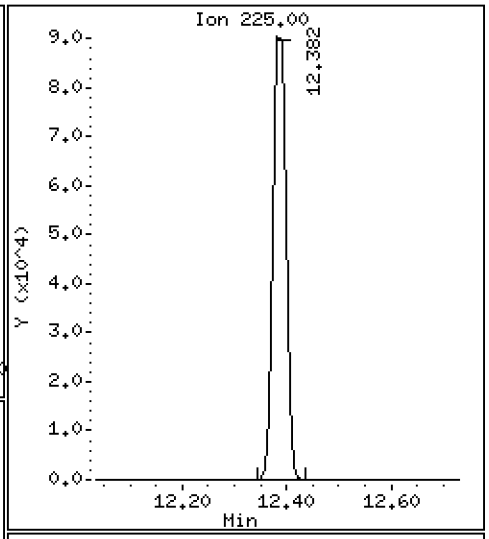
Column phase: ZB-5msi

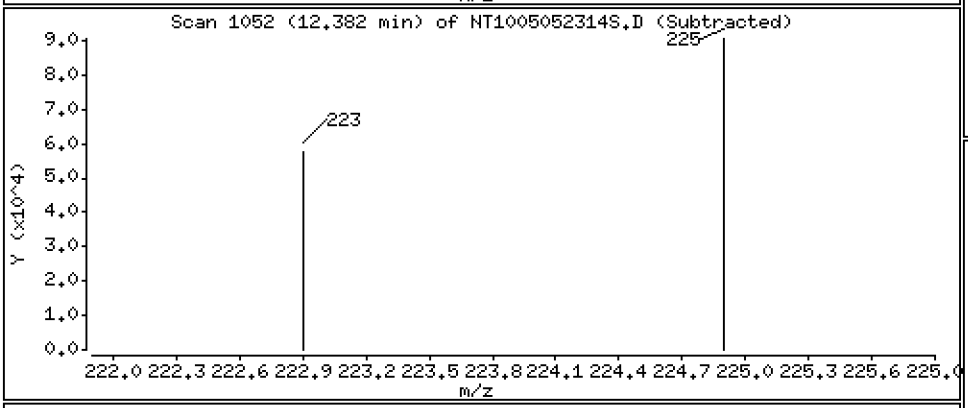
Column diameter: 0.25

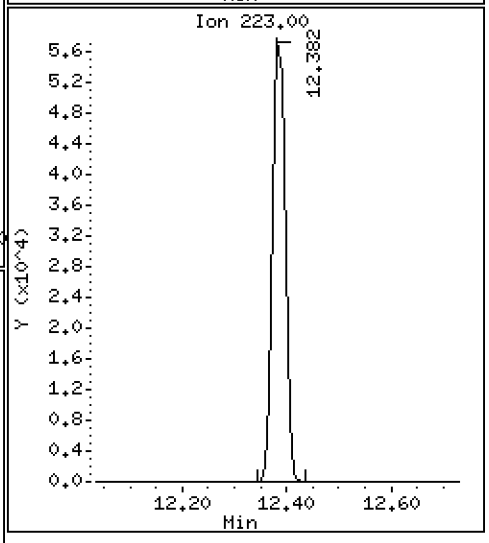
30 Hexachlorobutadiene

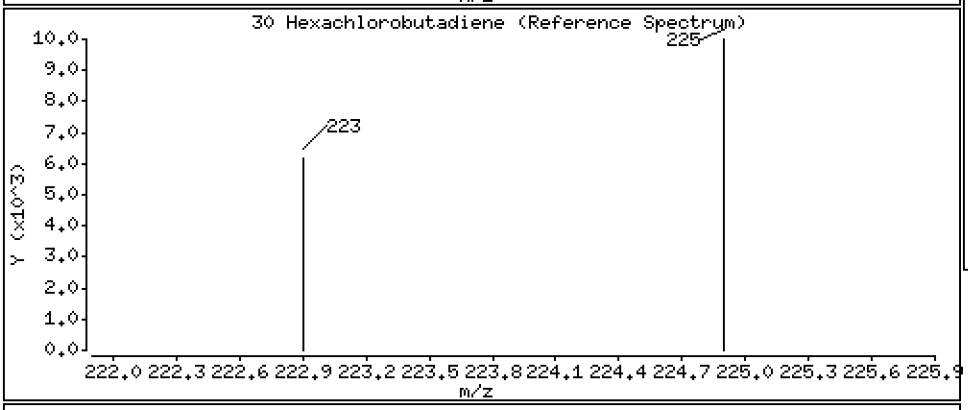
Concentration: 3.420 ug/L

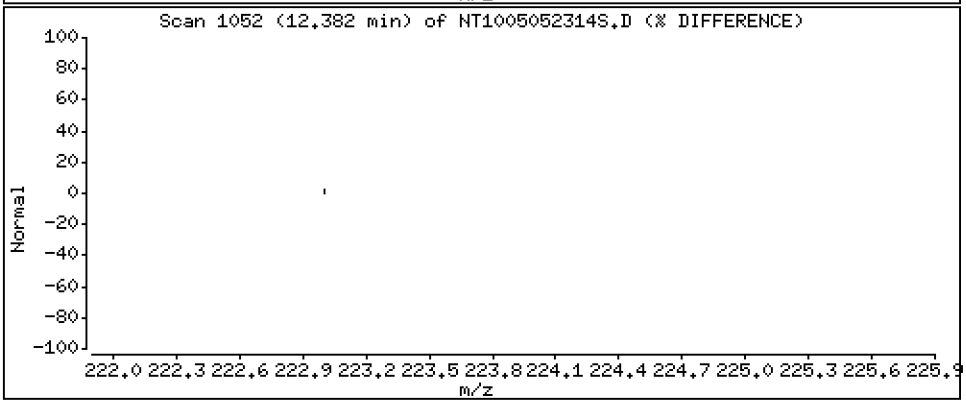












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

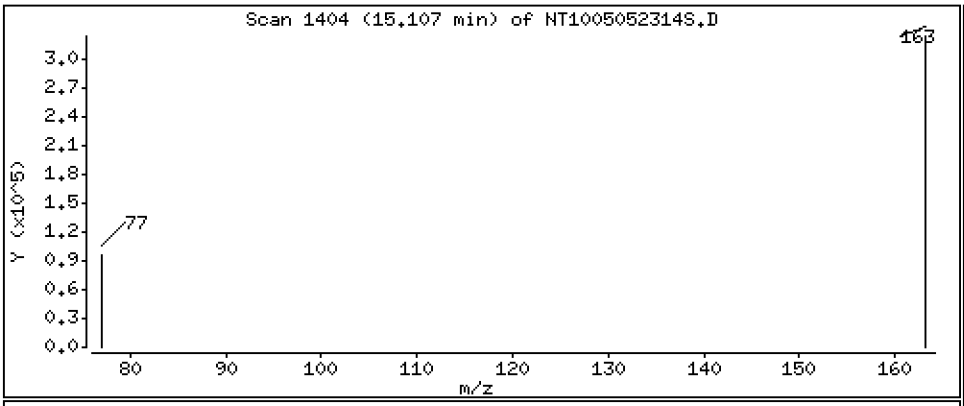
Operator: DSD

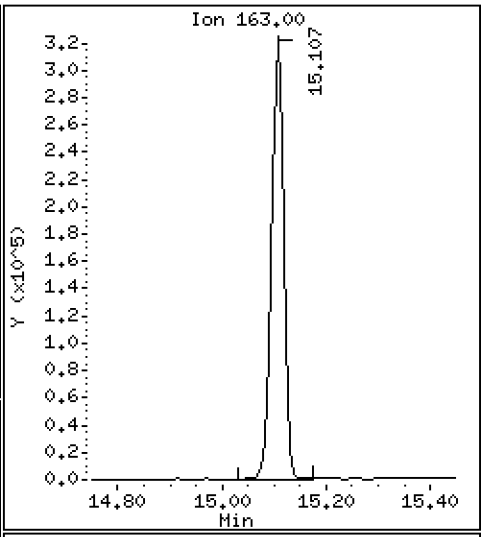
Column phase: ZB-5msi

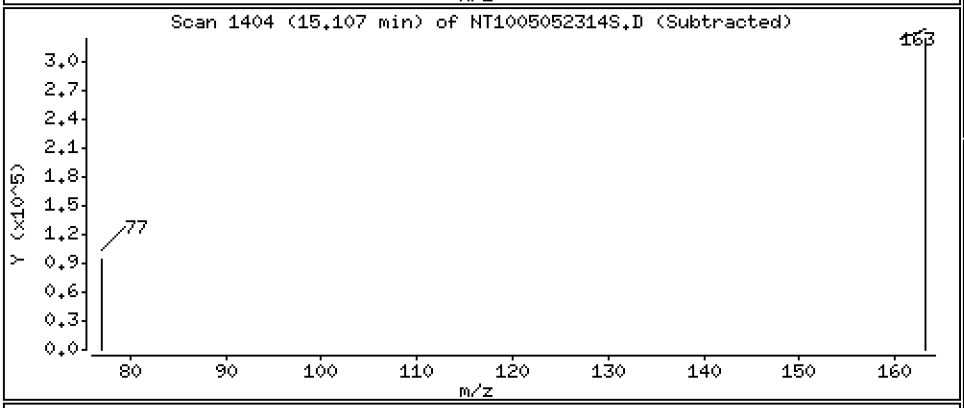
Column diameter: 0.25

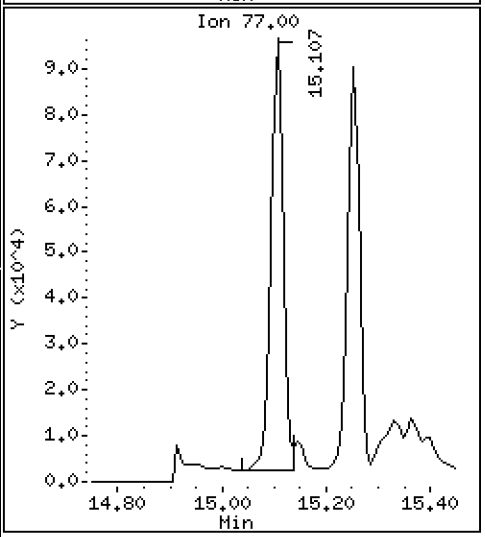
39 Dimethylphthalate

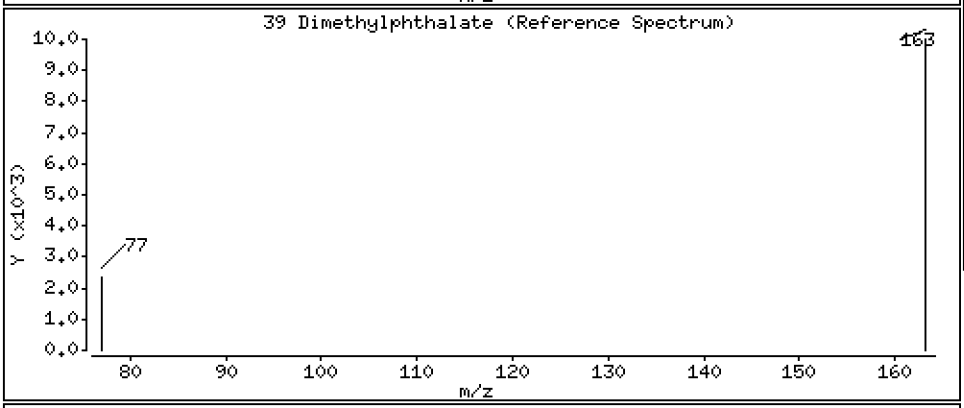
Concentration: 3.878 ug/L

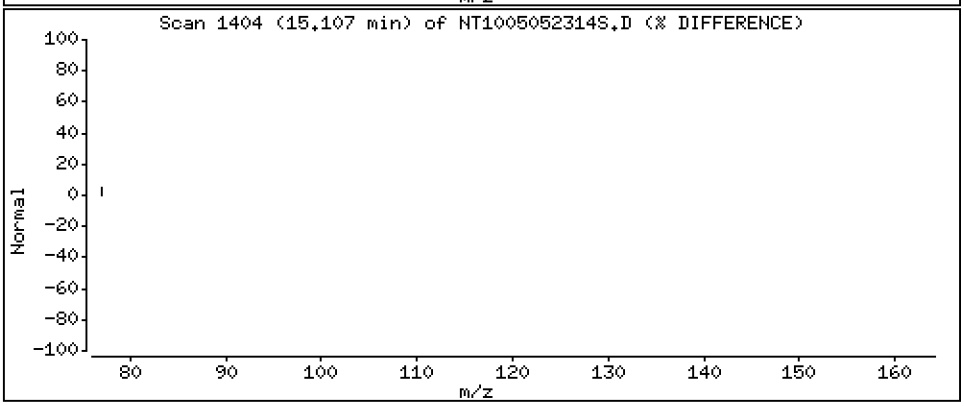












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

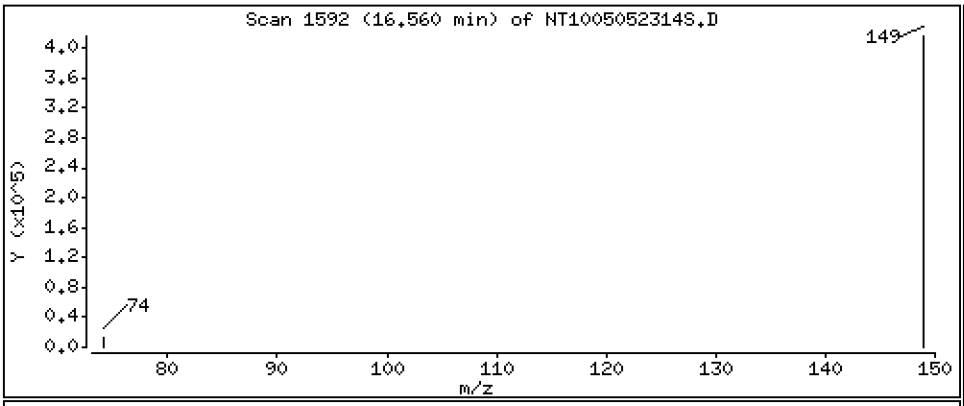
Operator: DSD

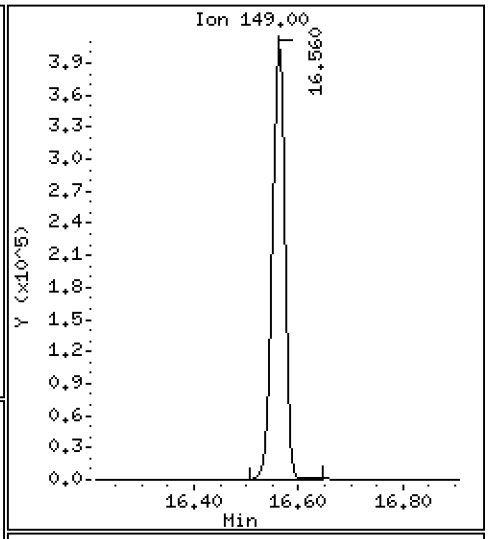
Column phase: ZB-5msi

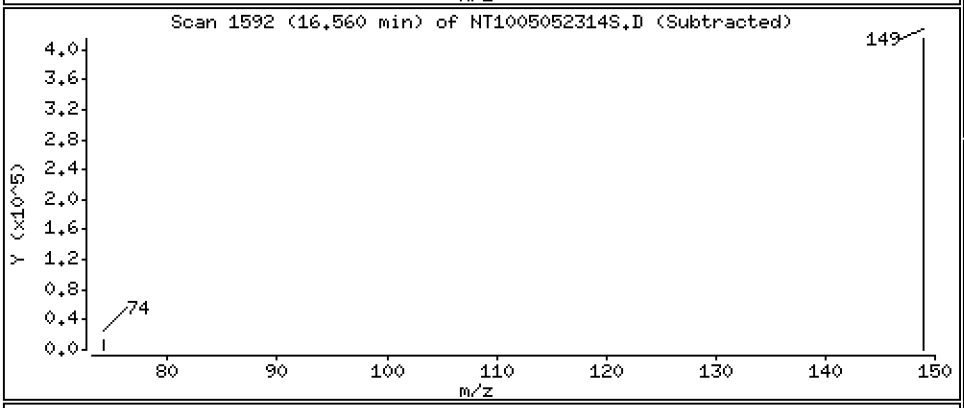
Column diameter: 0.25

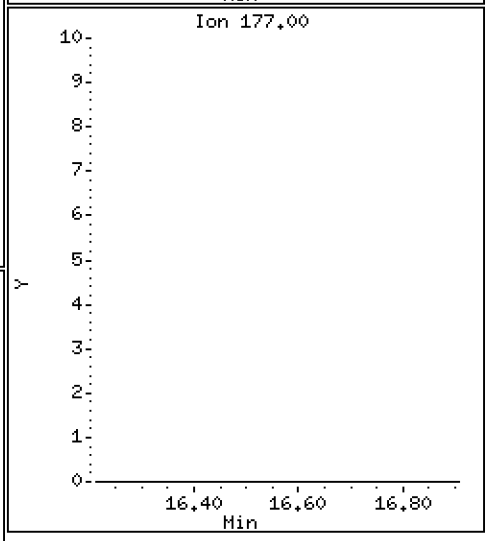
50 Diethylphthalate

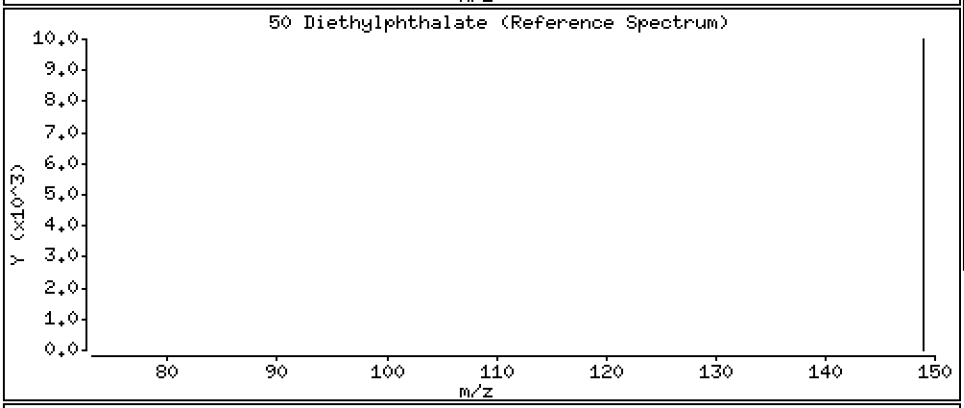
Concentration: 4.803 ug/L

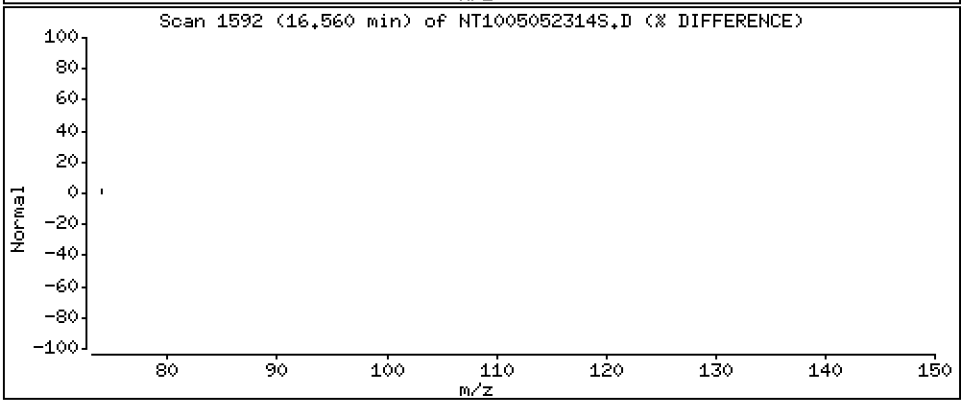












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

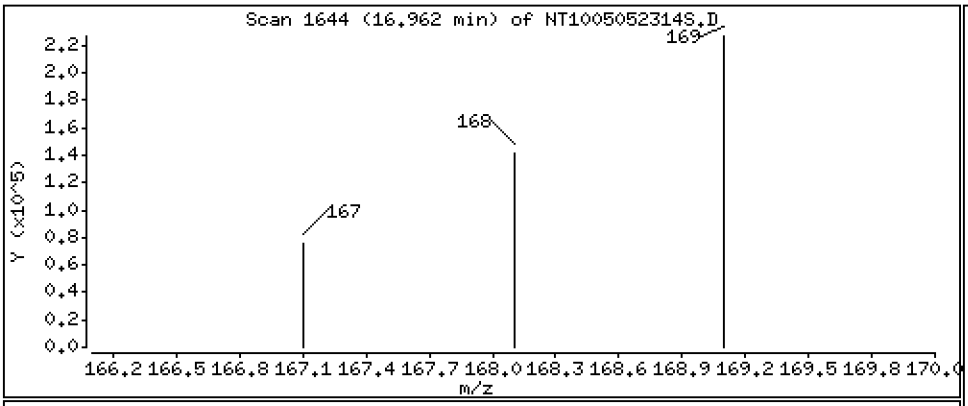
Operator: DSD

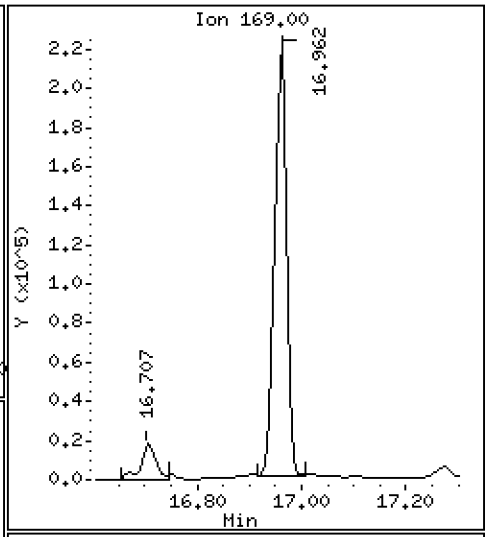
Column phase: ZB-5msi

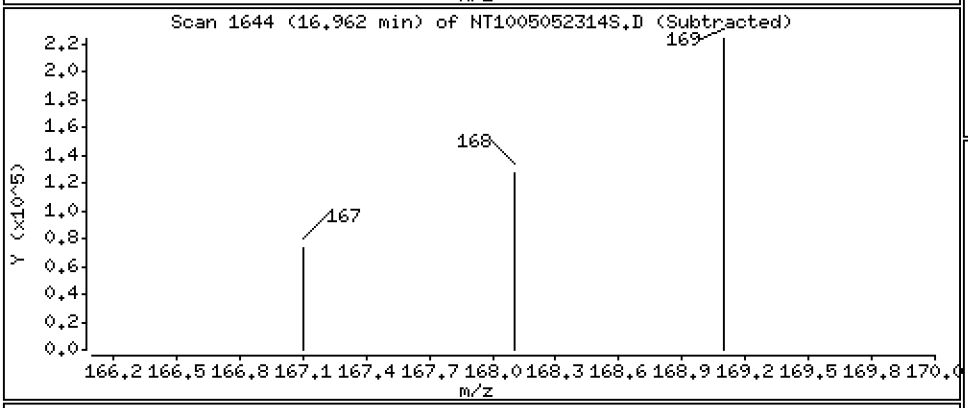
Column diameter: 0.25

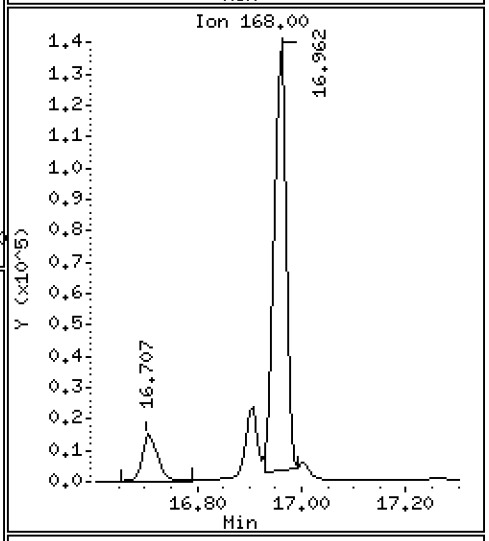
54 N-Nitrosodiphenylamine

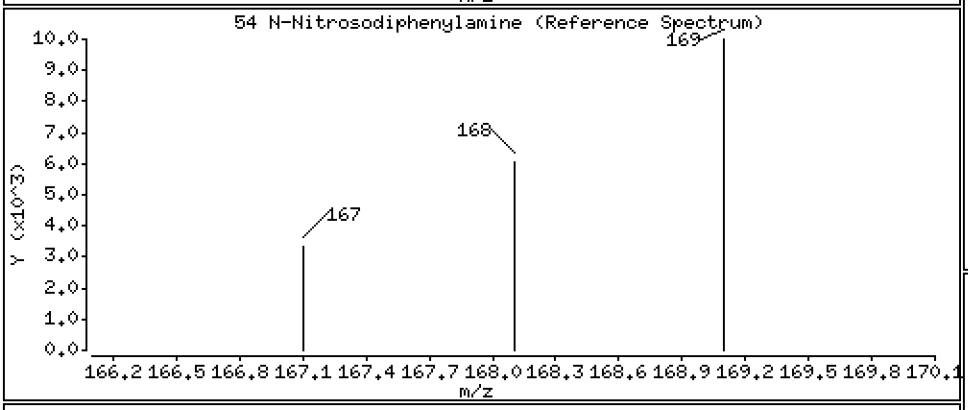
Concentration: 3.900 ug/L

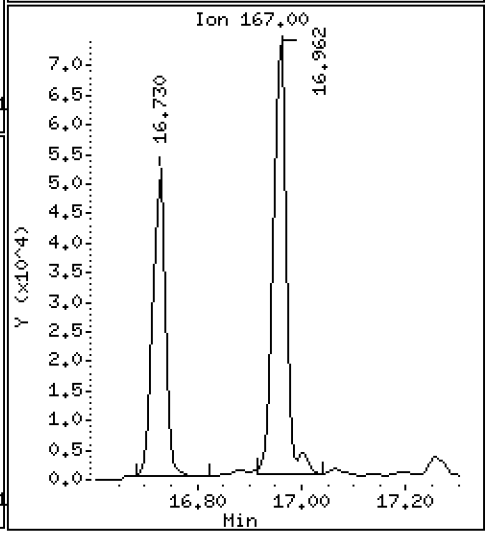


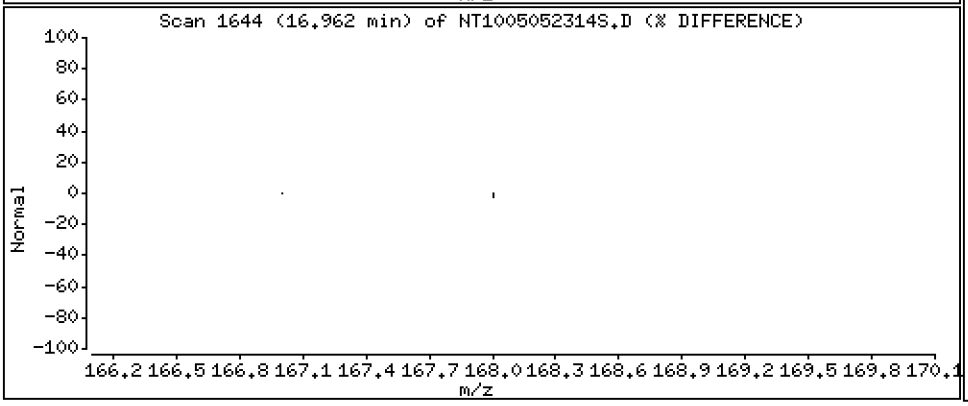












Date : 05-MAY-2023 19:11

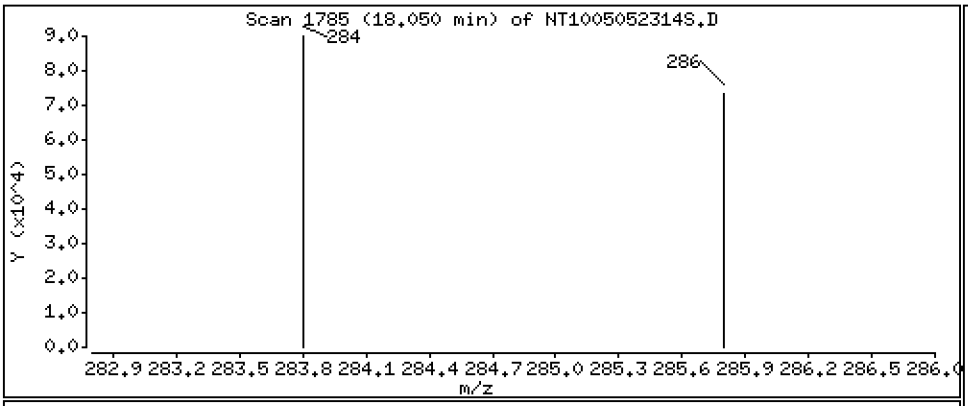
Client ID: Instrument: nt10.i

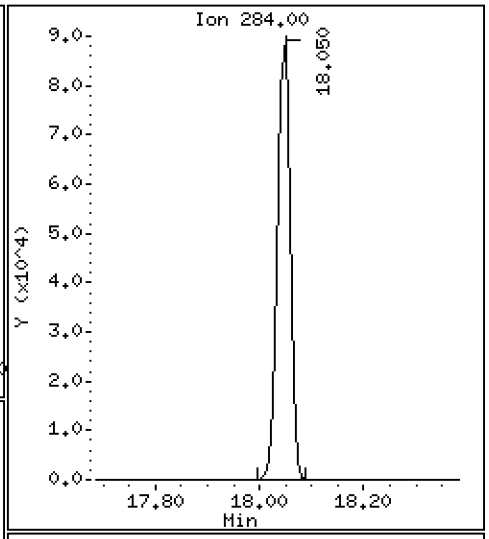
Sample Info: BLD0329-MSD2

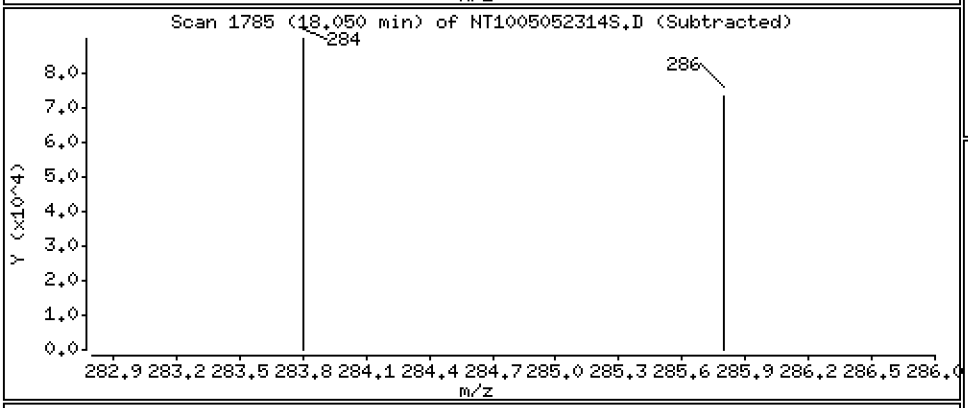
Volume Injected (uL): 1.0 Operator: DSD

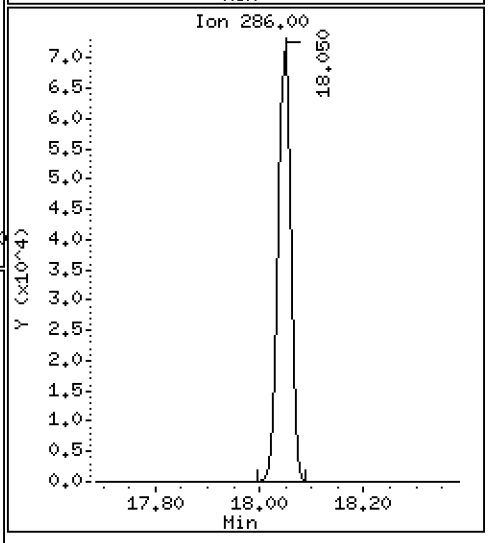
Column phase: ZB-5msi Column diameter: 0.25

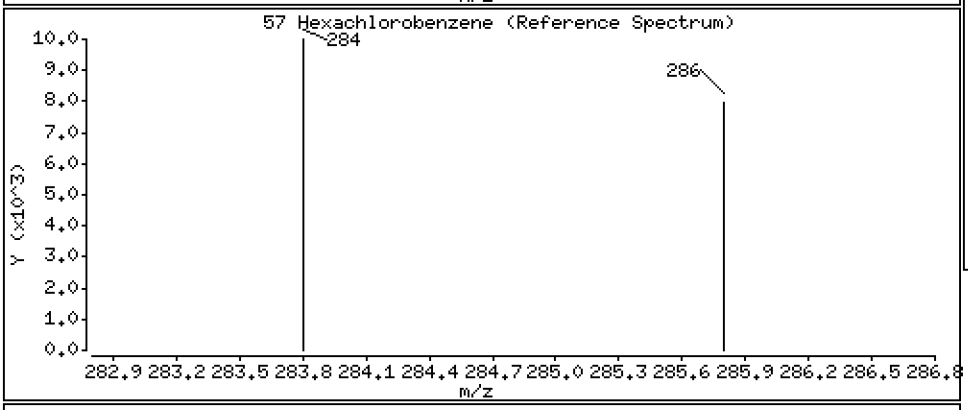
57 Hexachlorobenzene Concentration: 3.400 ug/L

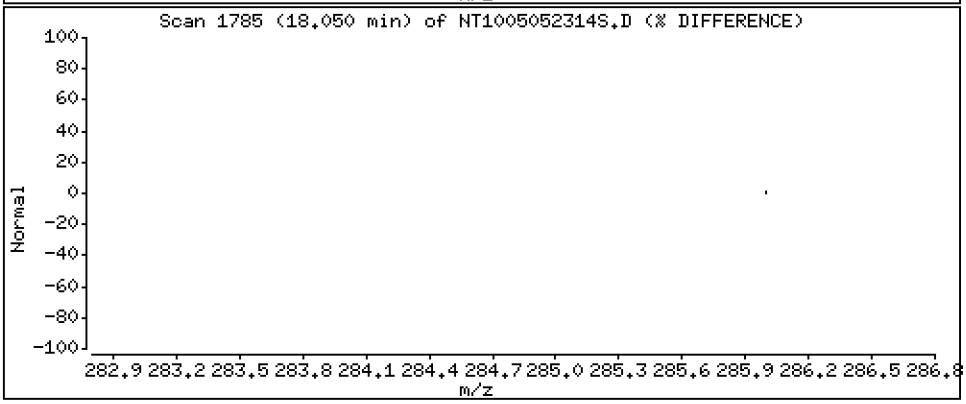












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

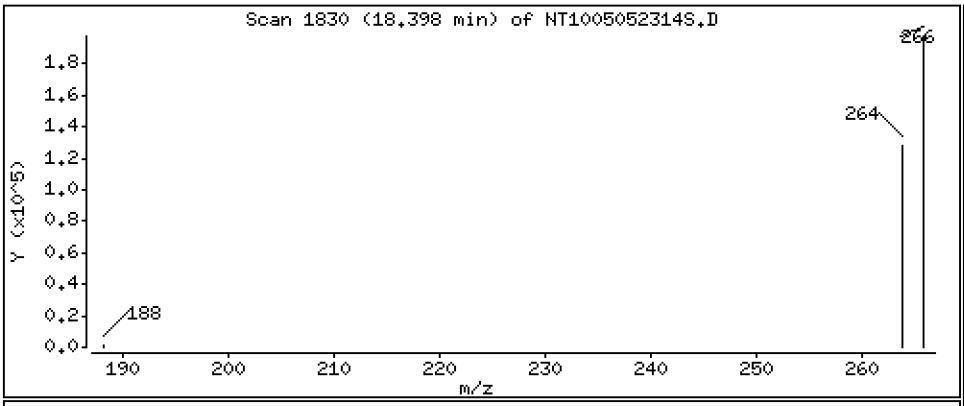
Operator: DSD

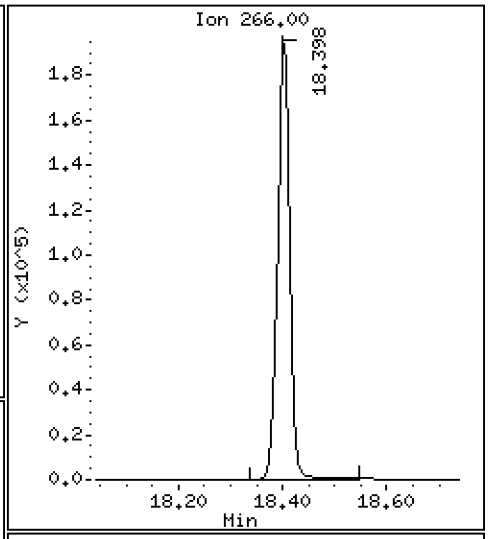
Column phase: ZB-5msi

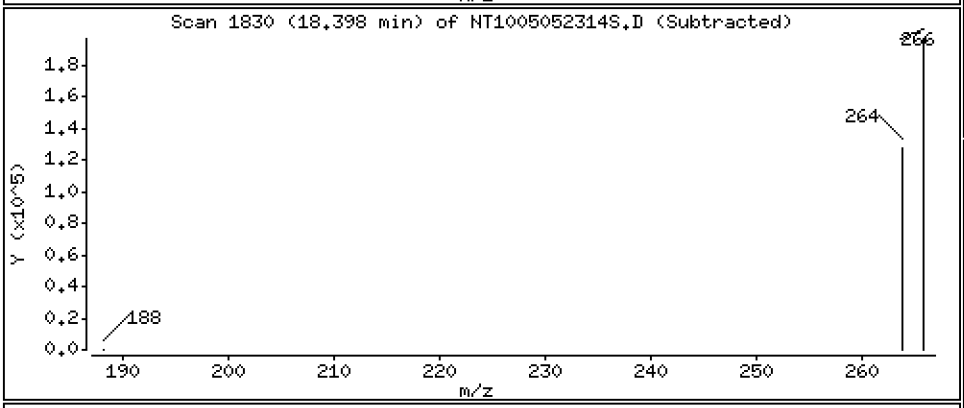
Column diameter: 0.25

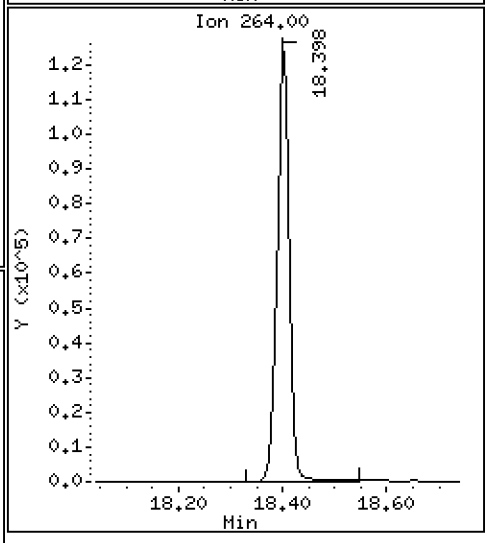
58 Pentachlorophenol

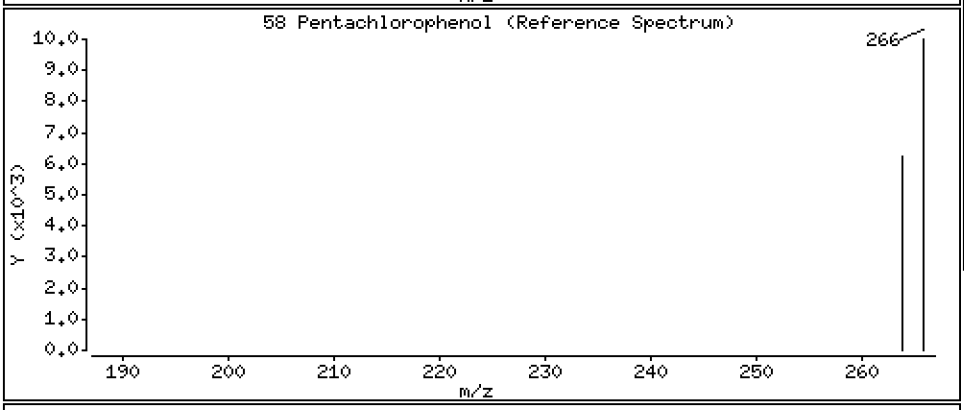
Concentration: 11.25 ug/L

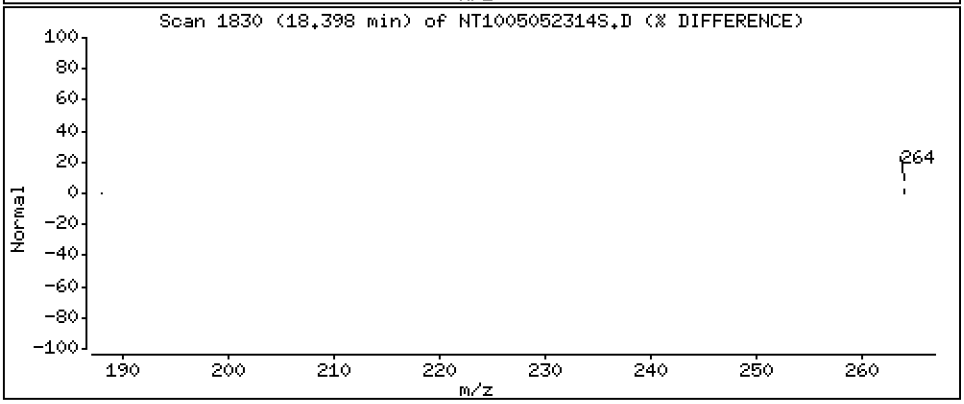












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

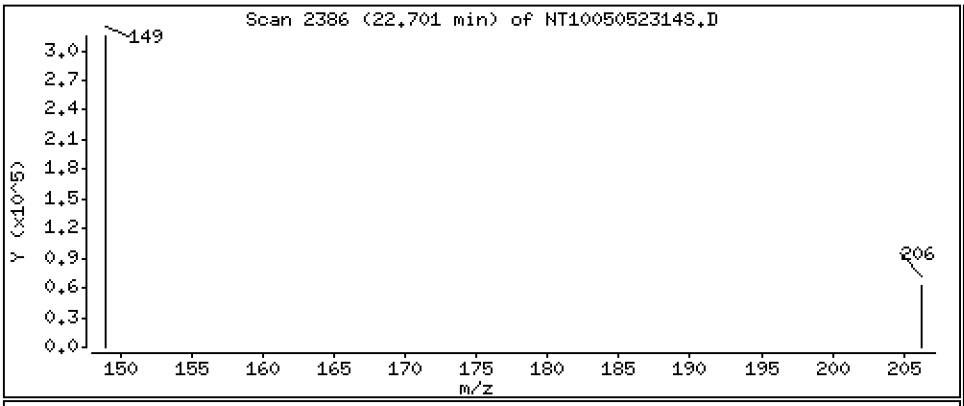
Operator: DSD

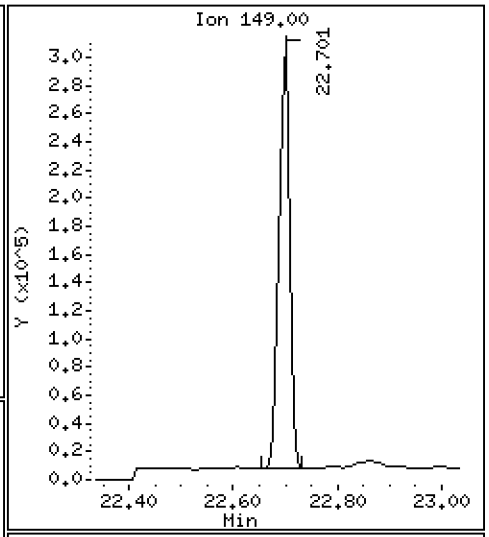
Column phase: ZB-5msi

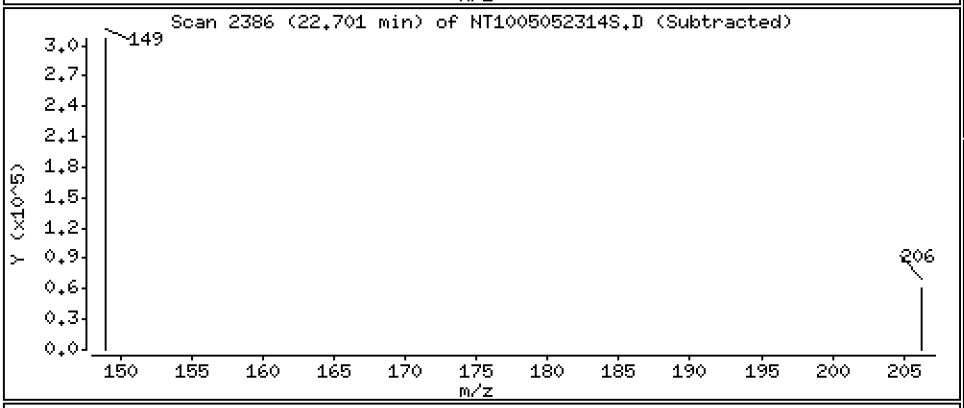
Column diameter: 0.25

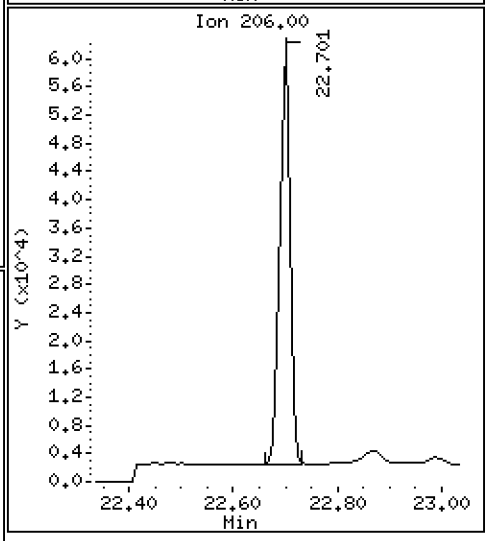
67 Butylbenzylphthalate

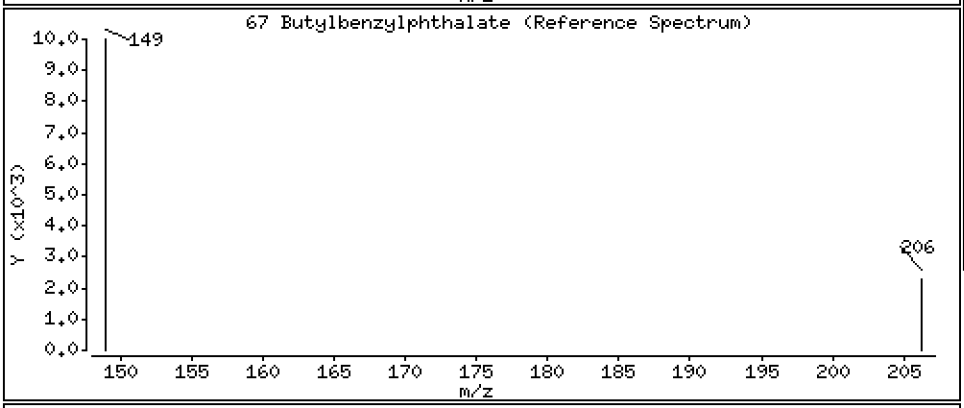
Concentration: 4.526 ug/L

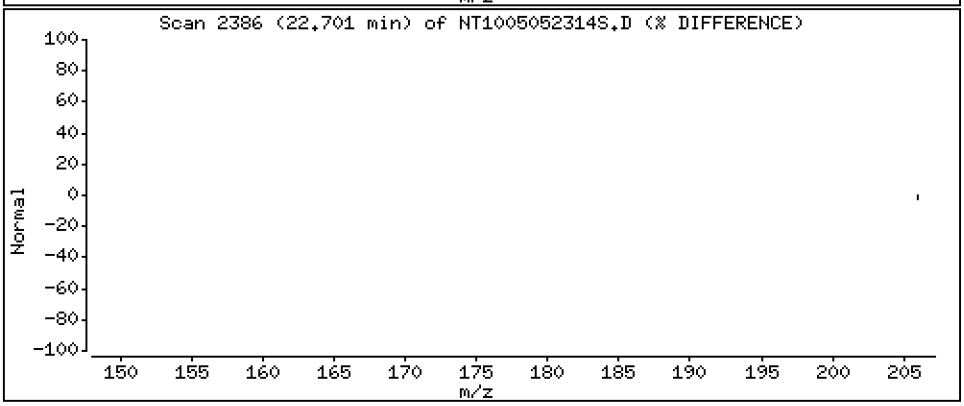












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Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

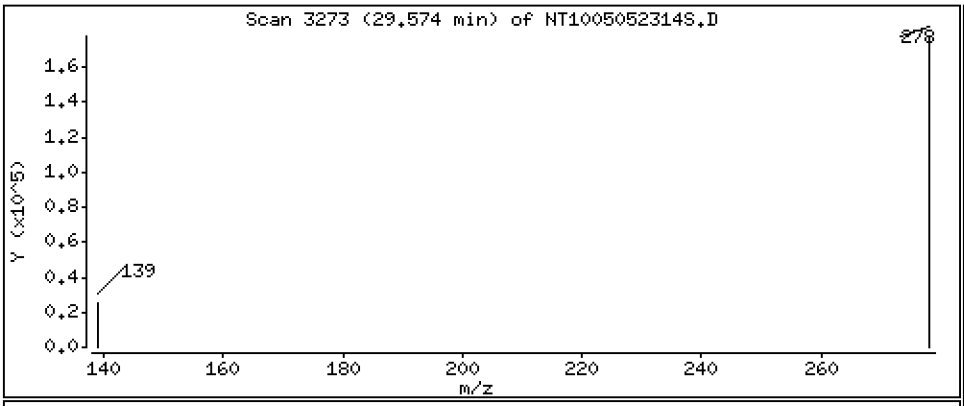
Operator: DSD

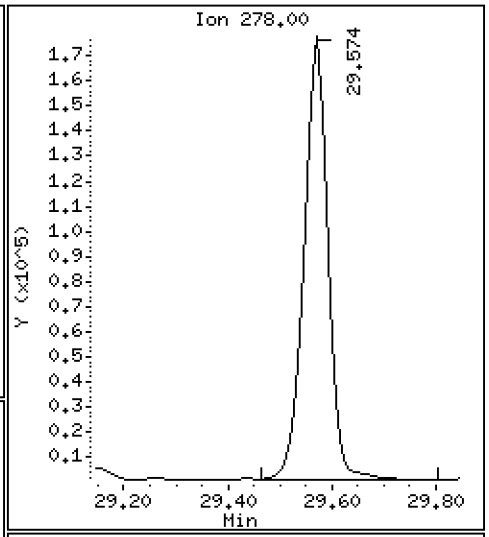
Column phase: ZB-5msi

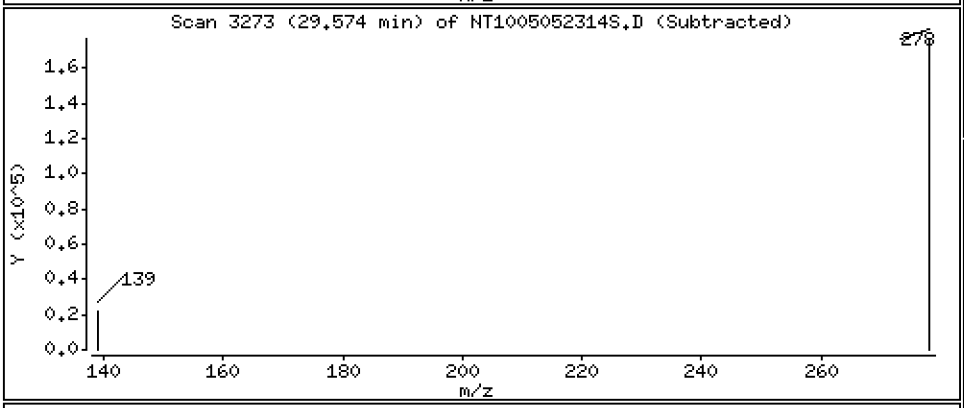
Column diameter: 0.25

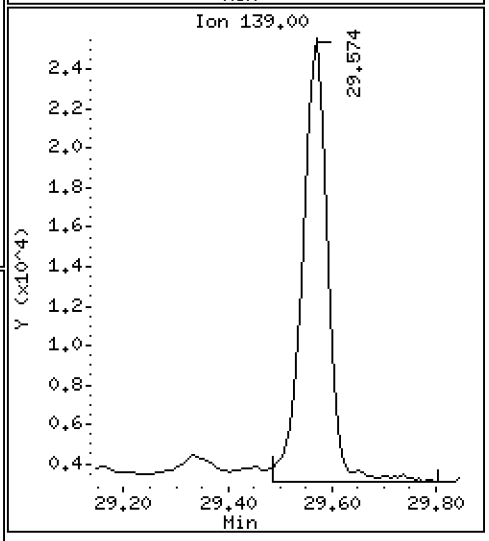
79 Dibenzo(a,h)anthracene

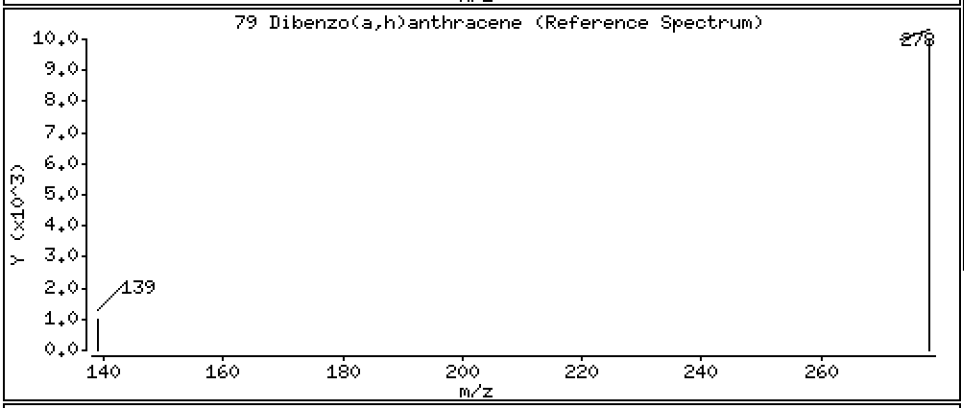
Concentration: 4.017 ug/L

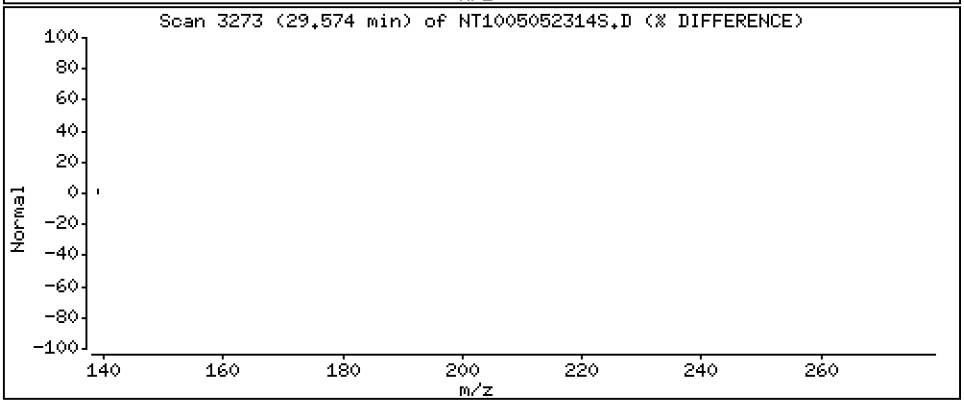












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D

Date : 05-MAY-2023 19:11

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-MSD2

Volume Injected (uL): 1.0

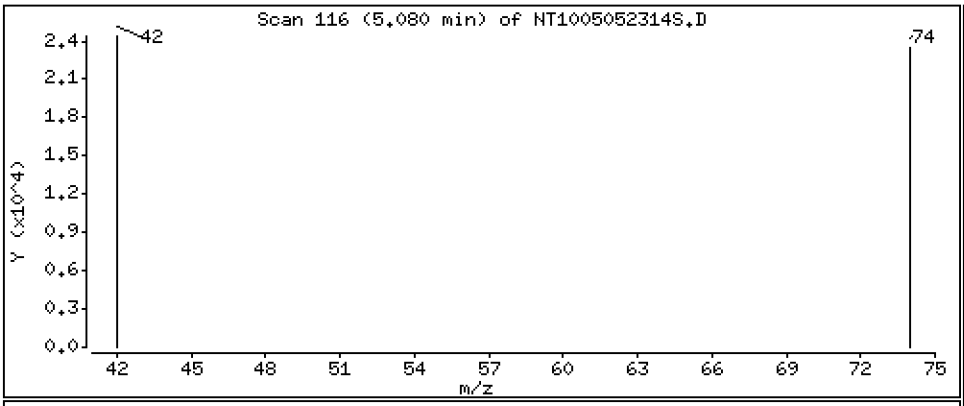
Operator: DSD

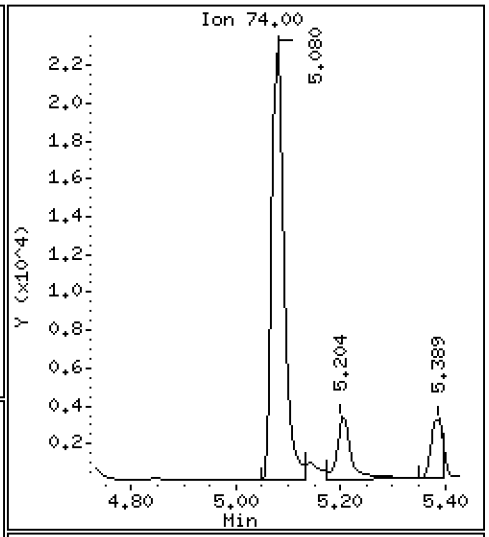
Column phase: ZB-5msi

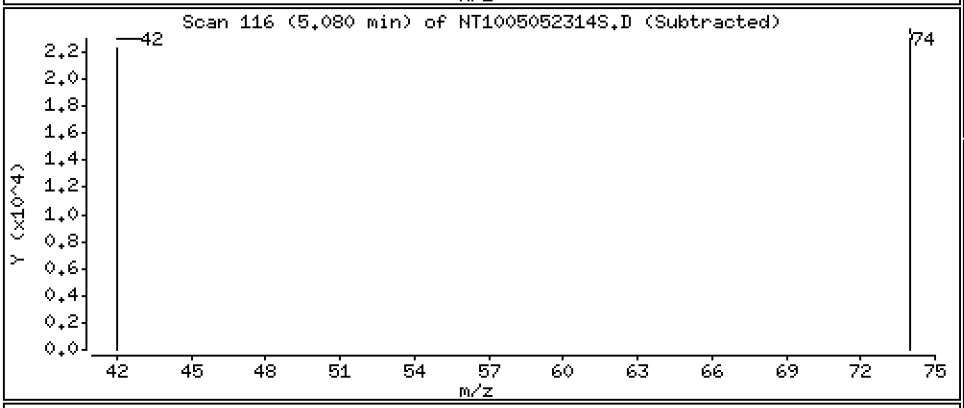
Column diameter: 0.25

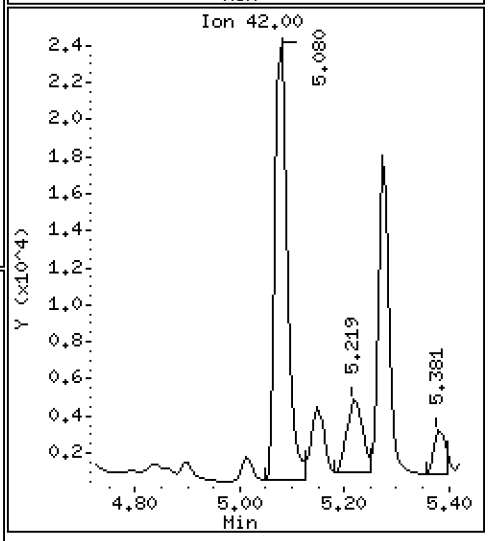
90 N-Nitrosodimethylamine

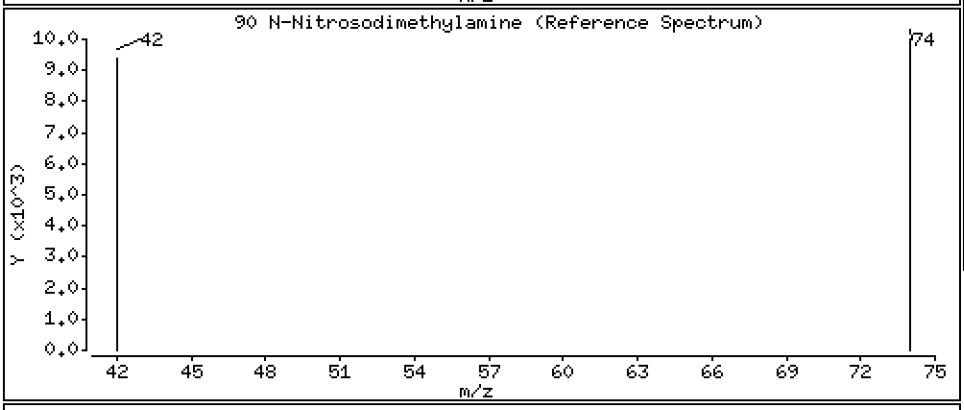
Concentration: 1.203 ug/L

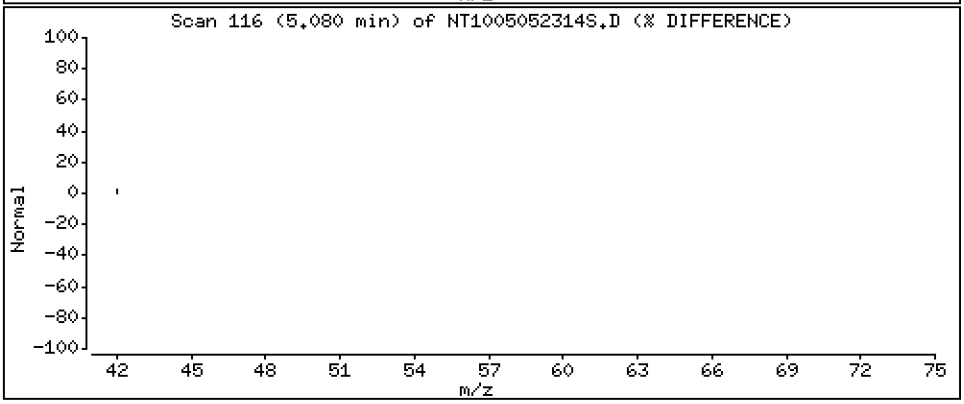












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052314S.D
Lab Smp Id: BLD0329-MSD2
Inj Date : 05-MAY-2023 19:11 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0329-MSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.250	7.243	(0.763)	171197	3.17266	3.173(R)
3	Phenol	94	8.857	8.842	(0.932)	205854	3.04554	3.046
7	1,3-Dichlorobenzene	146	9.429	9.430	(0.993)	207011	2.91214	2.912
* 8	1,4-Dichlorobenzene-d4	152	9.499	9.492	(1.000)	177137	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.002)	207551	2.94799	2.948
11	Benzyl alcohol	79	9.763	9.756	(1.028)	288355	6.16894	6.169
12	1,2-Dichlorobenzene	146	9.887	9.880	(1.041)	203068	2.99878	2.999
13	2-Methylphenol	108	9.980	9.965	(1.051)	165741	3.27644	3.276
15	4-Methylphenol	108	10.252	10.237	(1.079)	202829	3.81342	3.813
16	N-Nitroso-di-n-propylamine	70	10.314	10.315	(1.086)	157551	4.10531	4.105
22	2,4-Dimethylphenol	107	11.296	11.288	(0.942)	604156	9.12531	9.125
24	Benzoic acid	105	11.457	11.381	(0.955)	442097	9.87113	9.871
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.992)	211011	3.10655	3.107
* 27	Naphthalene-d8	136	11.996	11.988	(1.000)	666320	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.032)	148344	3.42049	3.420
39	Dimethylphthalate	163	15.106	15.099	(0.967)	488244	3.87849	3.878
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	332083	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	649195	4.80291	4.803
54	N-Nitrosodiphenylamine	169	16.961	16.954	(0.908)	336720	3.90014	3.900
57	Hexachlorobenzene	284	18.049	18.034	(0.966)	143760	3.40027	3.400

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.390	(0.985)	317776	11.2460	11.25
*	59 Phenanthrene-d10	188	18.676	18.669	(1.000)	662010	4.00000	
$	66 Terphenyl-d14	244	21.786	21.771	(0.919)	461820	4.32480	4.325(R)
	67 Butylbenzylphthalate	149	22.700	22.685	(0.958)	413468	4.52644	4.526
*	69 Chrysene-d12	240	23.707	23.684	(1.000)	495228	4.00000	
*	77 Perylene-d12	264	26.556	26.517	(1.000)	426867	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.573	29.496	(1.114)	553475	4.01682	4.017
	90 N-Nitrosodimethylamine	74	5.080	5.080	(0.535)	35407	1.20281	1.203

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052314S.D
Lab Smp Id: BLD0329-MSD2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	177137	-3.04
27 Naphthalene-d8	662220	331110	1324440	666320	0.62
42 Acenaphthene-d10	335558	167779	671116	332083	-1.04
59 Phenanthrene-d10	678190	339095	1356380	662010	-2.39
69 Chrysene-d12	566969	283485	1133938	495228	-12.65
77 Perylene-d12	522906	261453	1045812	426867	-18.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.06
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	-0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.68	0.04
69 Chrysene-d12	23.68	23.18	24.18	23.71	0.10
77 Perylene-d12	26.52	26.02	27.02	26.56	0.14

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

REVIEW SUMMARY FOR FILE - NT1005052314S.D

Lab ID: BLD0329-MSD2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 19:11

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.955	0.949	0.0058	Benzoic acid

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0329-SRM2
Batch: BLD0329
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 05/05/2023 16:36
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,4-Dimethylphenol	6357.0	4600	21.7	200		72.3	0 - 220
1,2,4-Trichlorobenzene	1477.0	1130	26.8	50.0		76.7	10 - 193
N-Nitrosodiphenylamine	2854.0	2640	13.1	50.0		92.4	40 - 160
Pentachlorophenol	3411.0	3040	21.3	200	Q	89.2	10 - 206

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523105.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

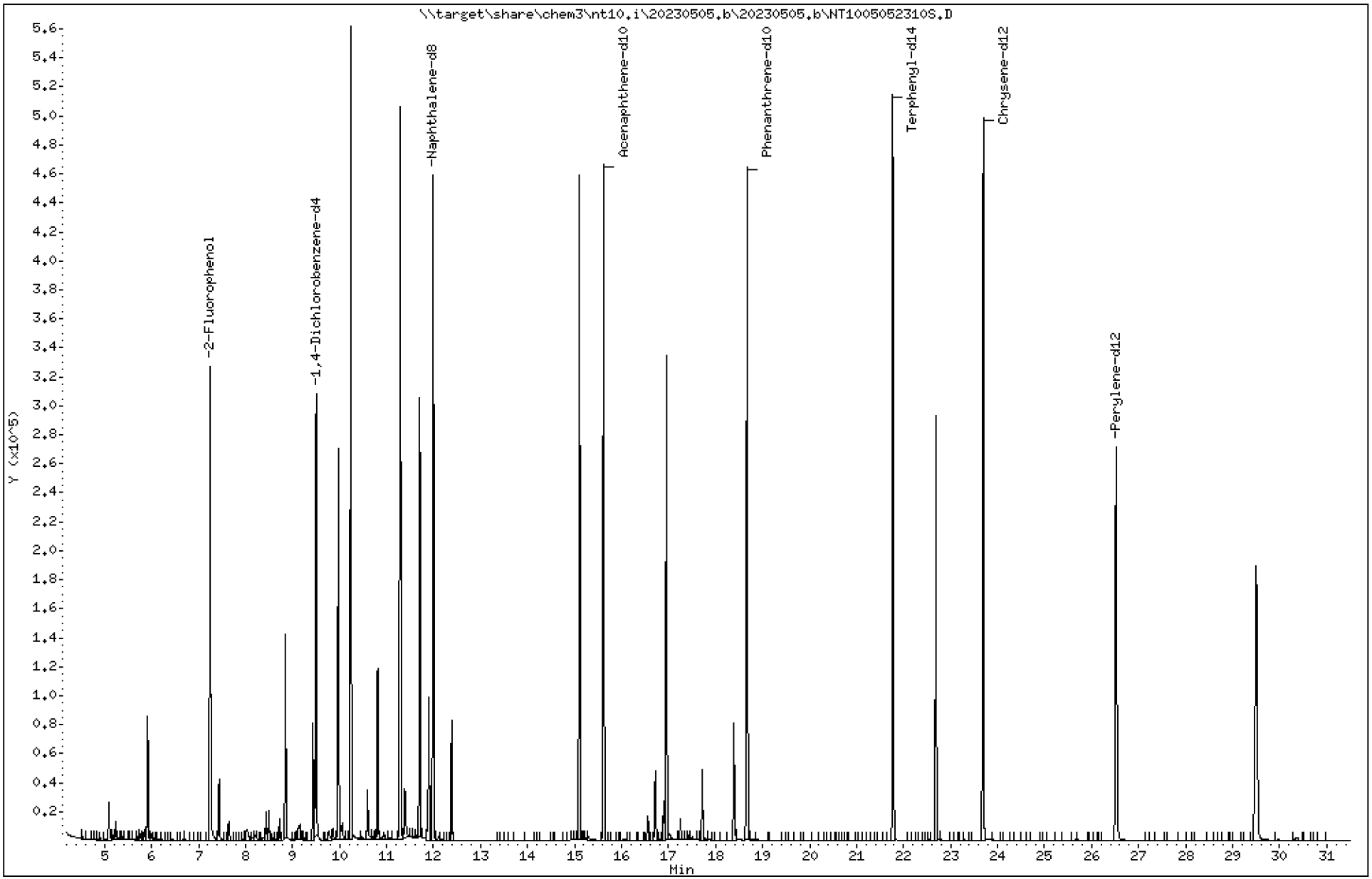
Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1663 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052310S.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

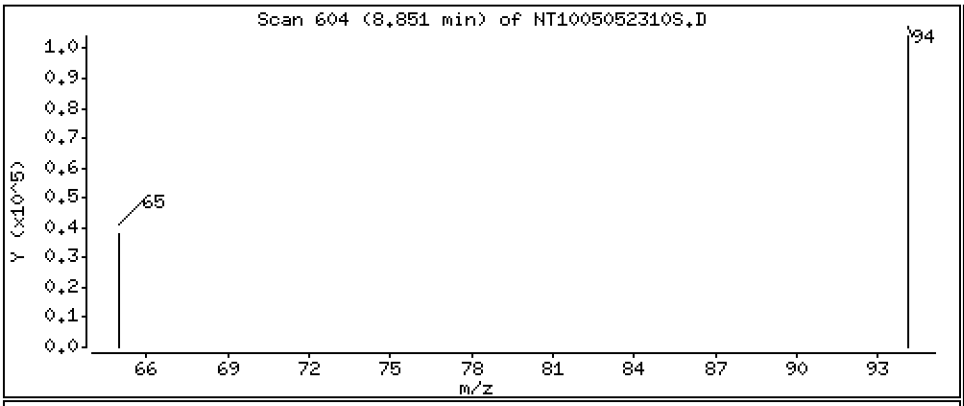
Operator: DSD

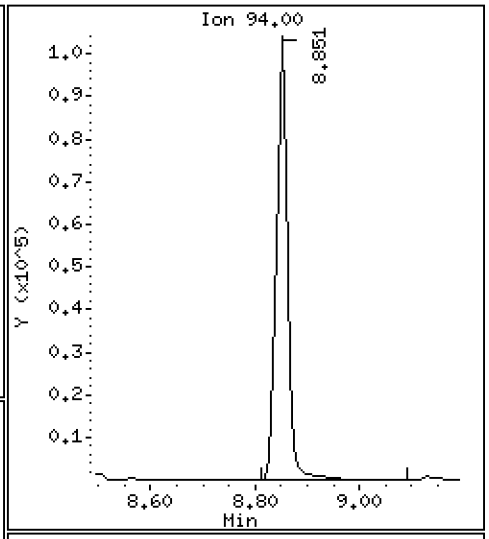
Column phase: ZB-5msi

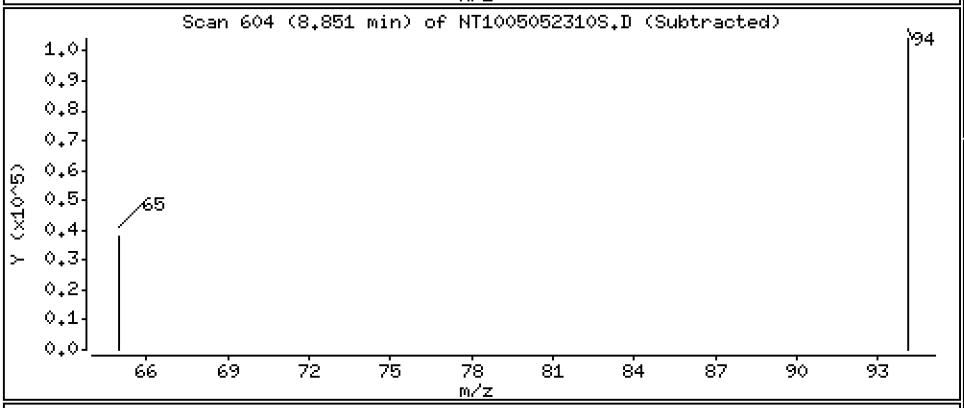
Column diameter: 0.25

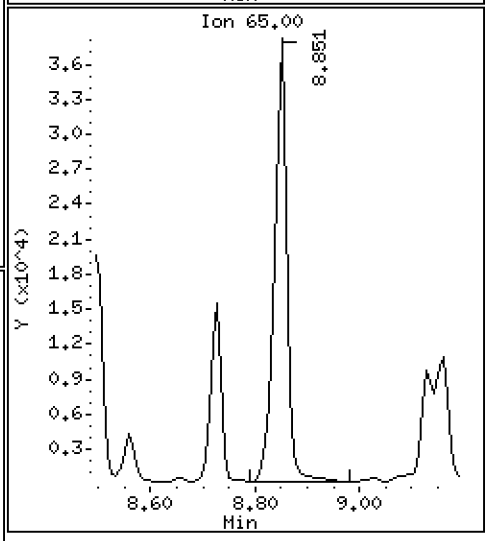
3 Phenol

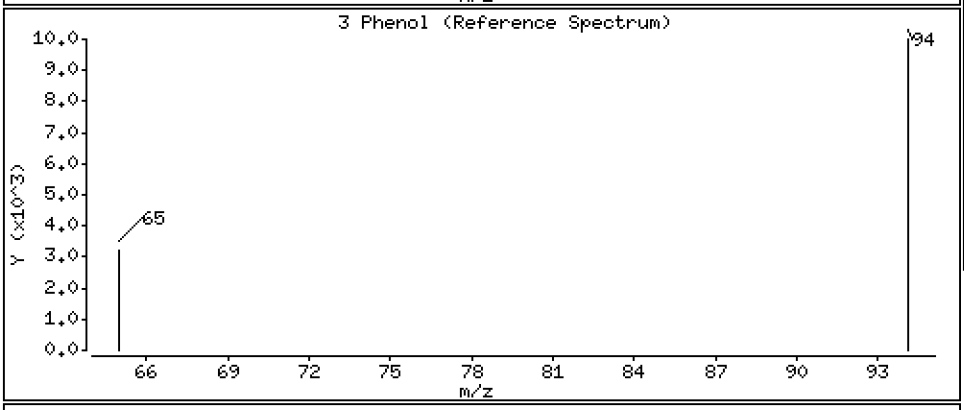
Concentration: 2.036 ug/L

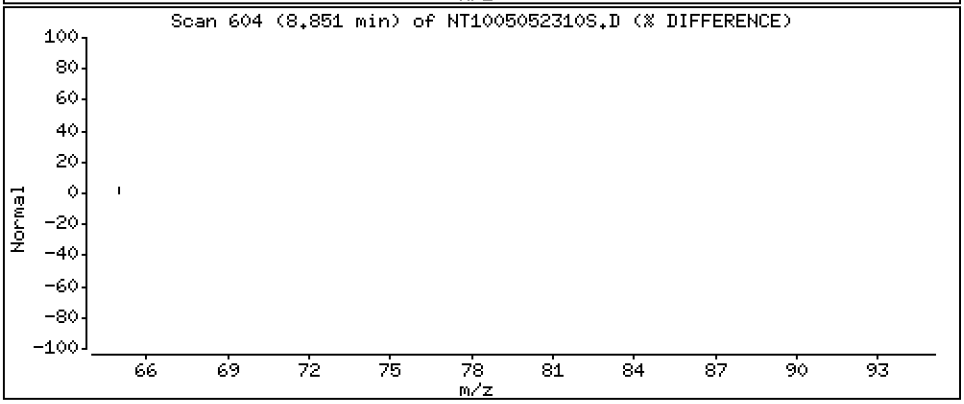












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

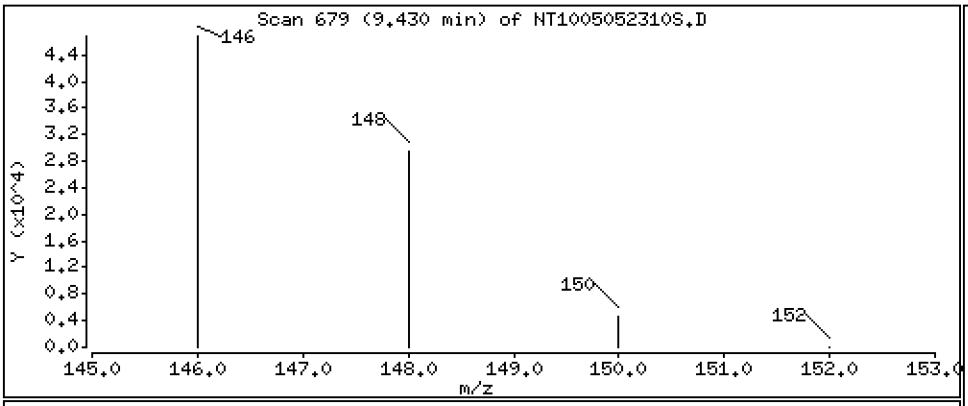
Operator: DSD

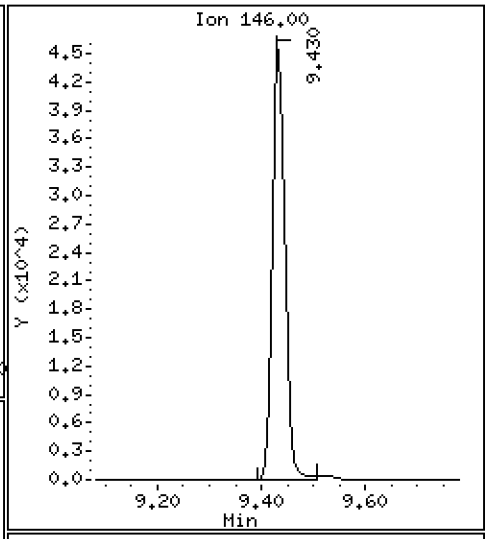
Column phase: ZB-5msi

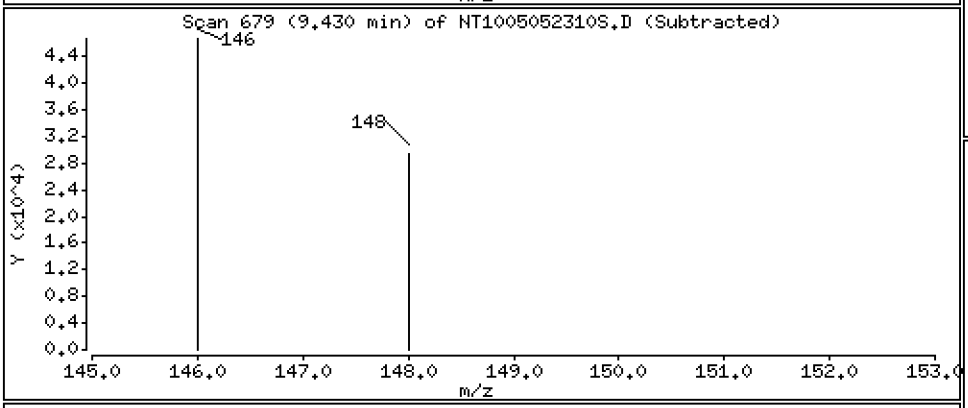
Column diameter: 0.25

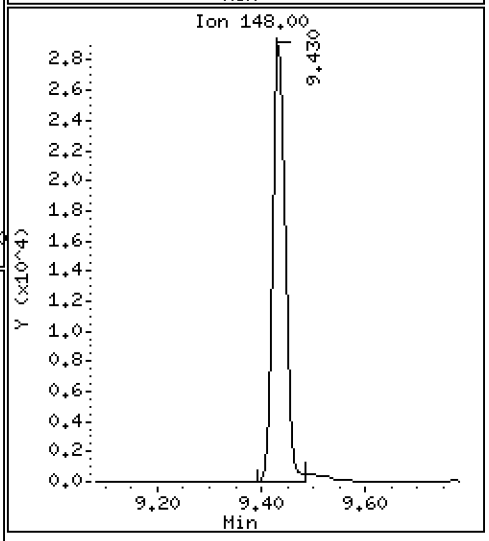
7 1,3-Dichlorobenzene

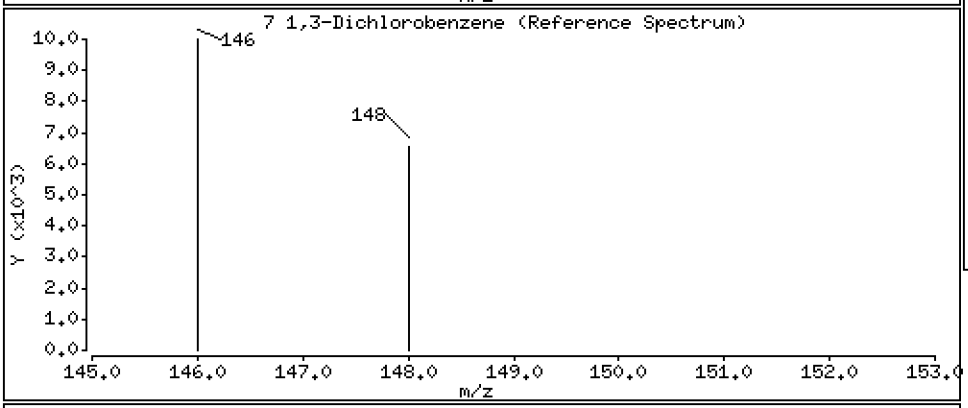
Concentration: 0.9548 ug/L

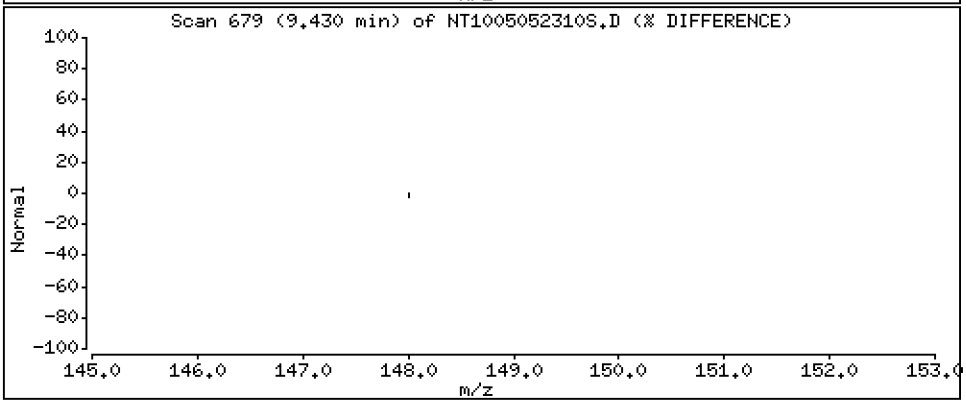












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052310S.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

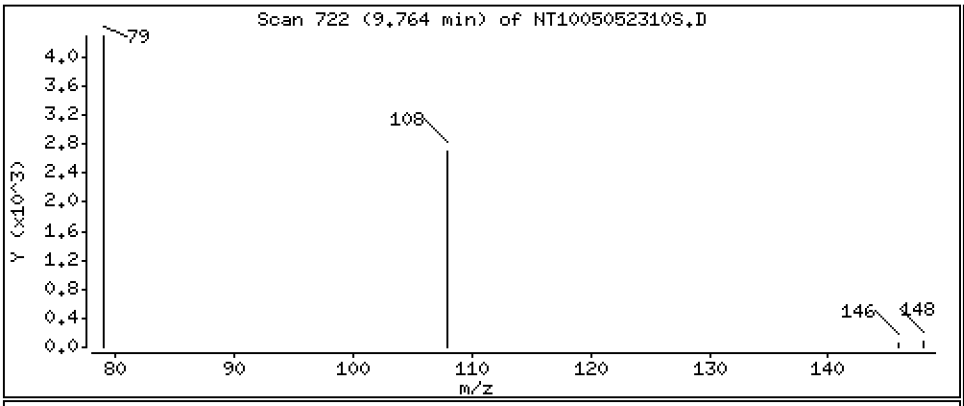
Operator: DSD

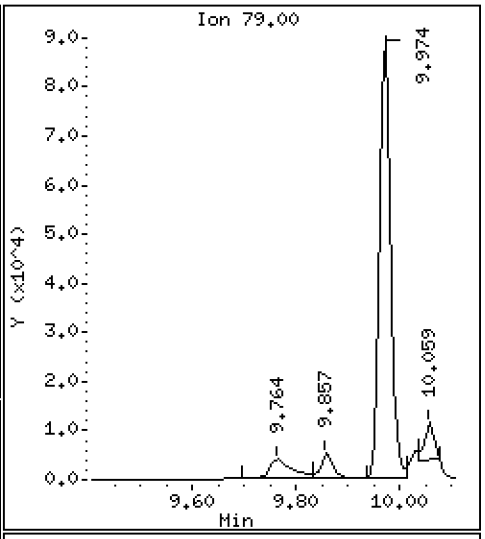
Column phase: ZB-5msi

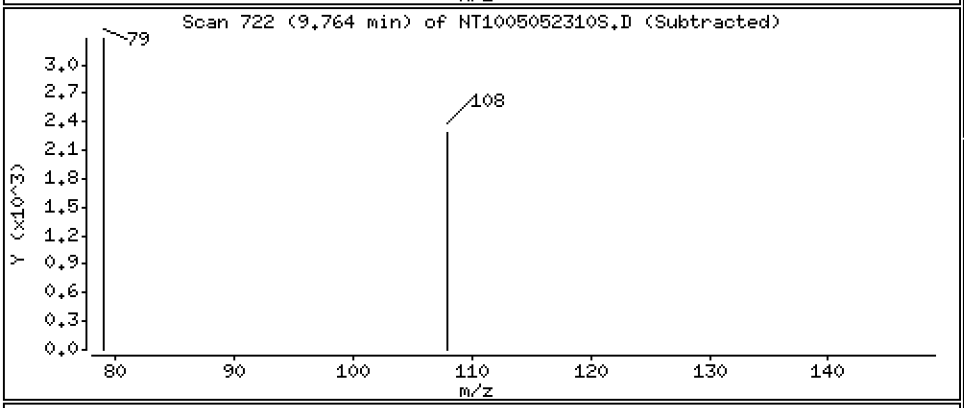
Column diameter: 0.25

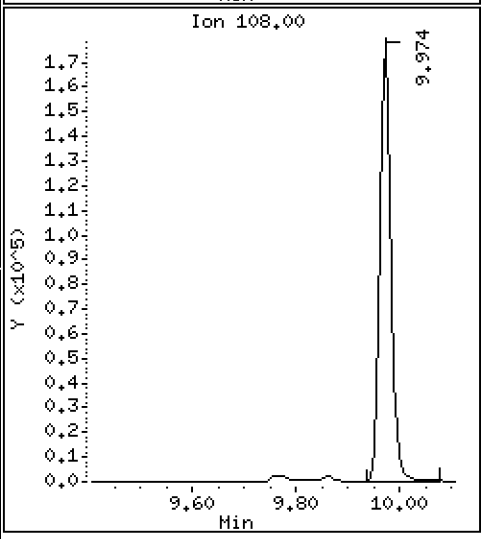
11 Benzyl alcohol

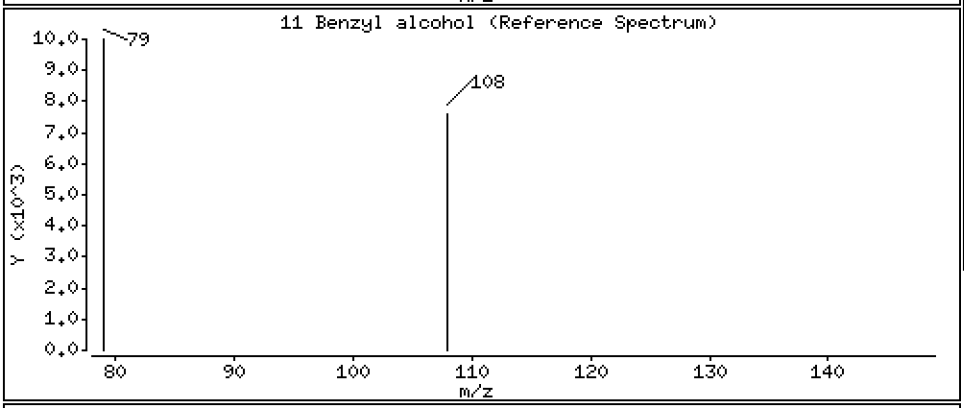
Concentration: 0.2241 ug/L

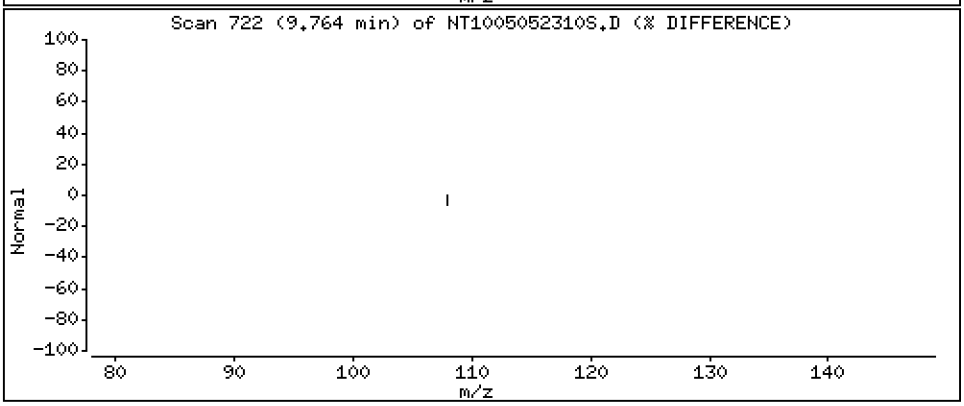












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

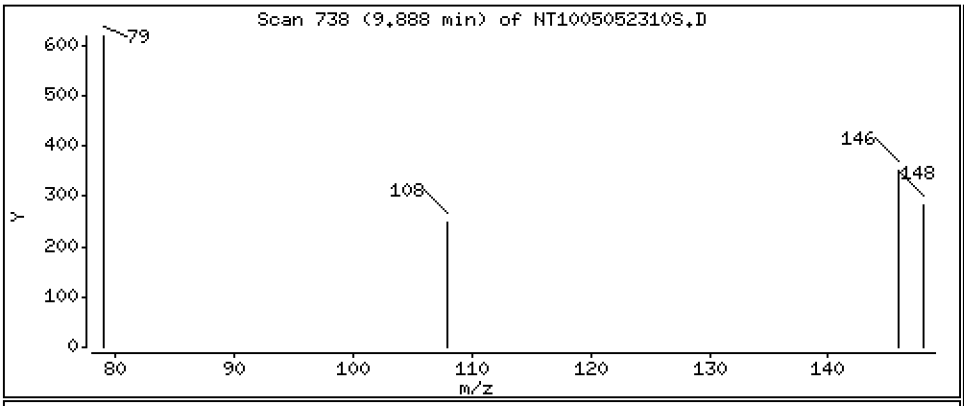
Operator: DSD

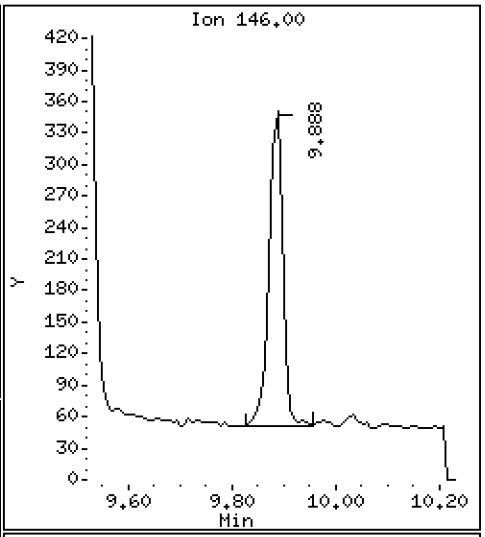
Column phase: ZB-5msi

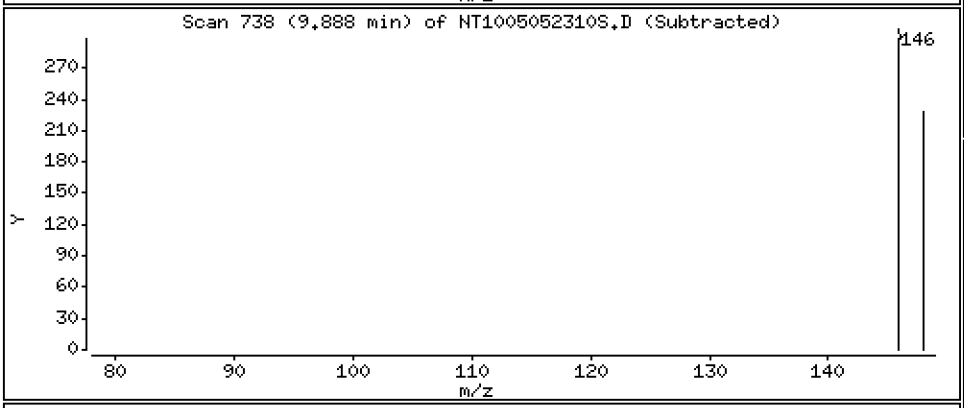
Column diameter: 0.25

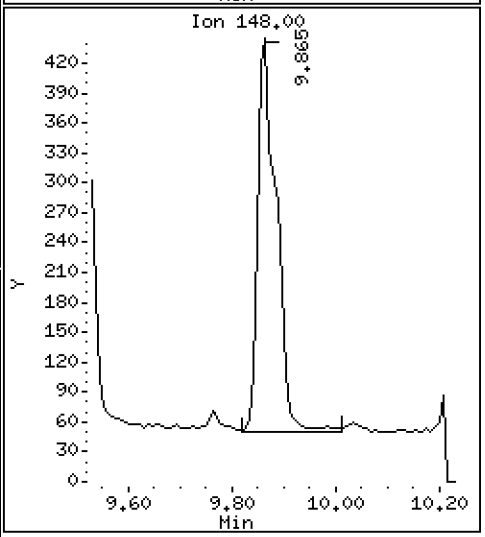
12 1,2-Dichlorobenzene

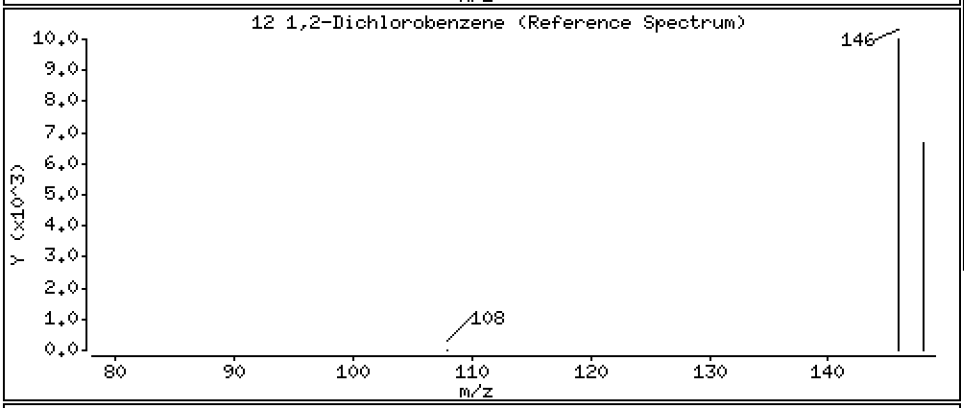
Concentration: 0.007212 ug/L

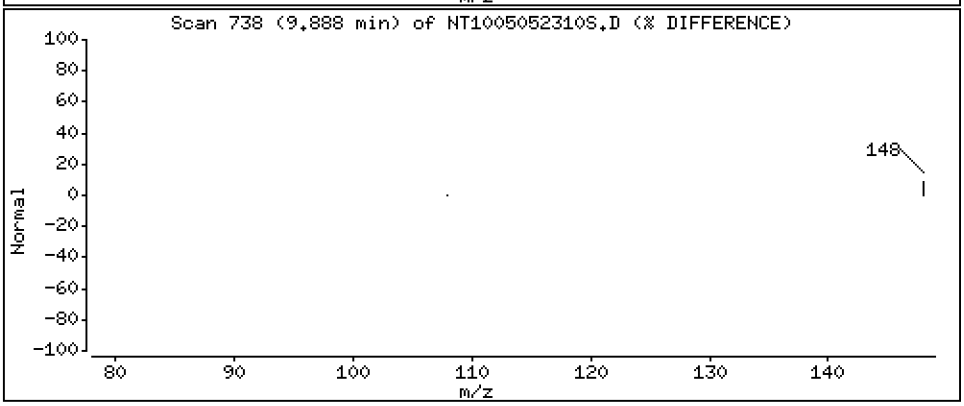












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

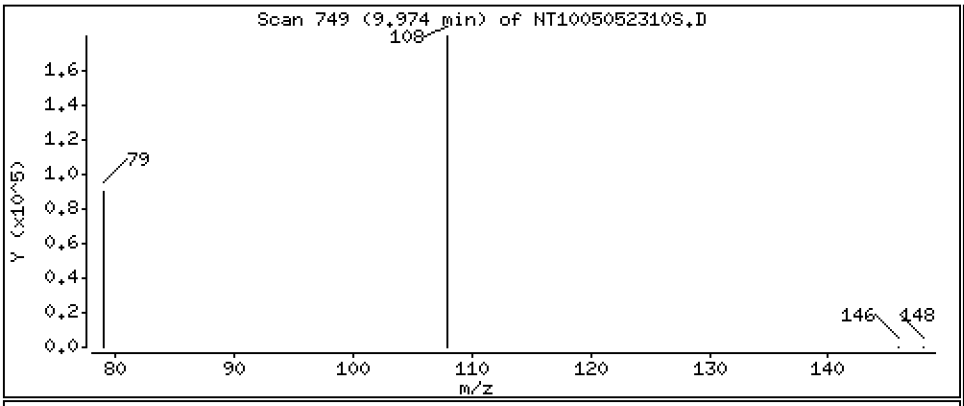
Operator: DSD

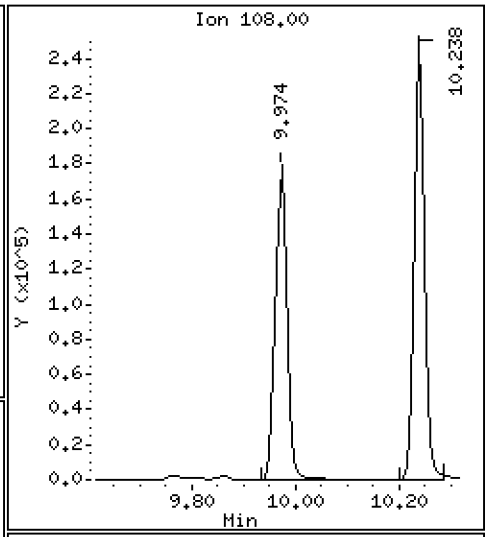
Column phase: ZB-5msi

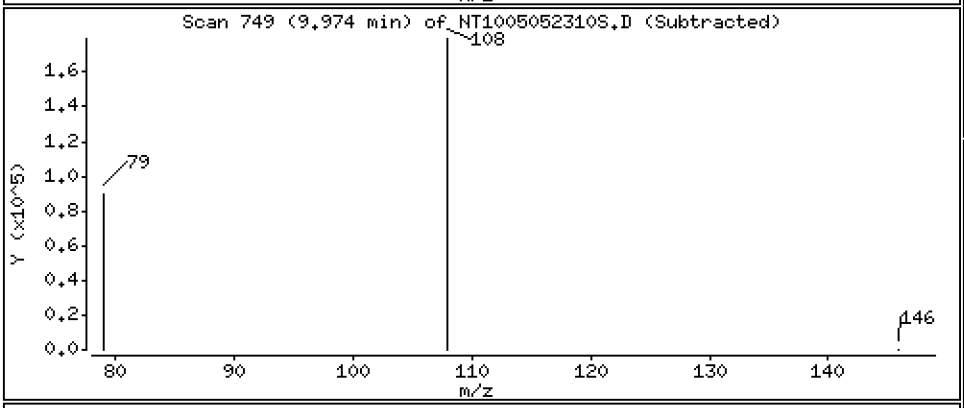
Column diameter: 0.25

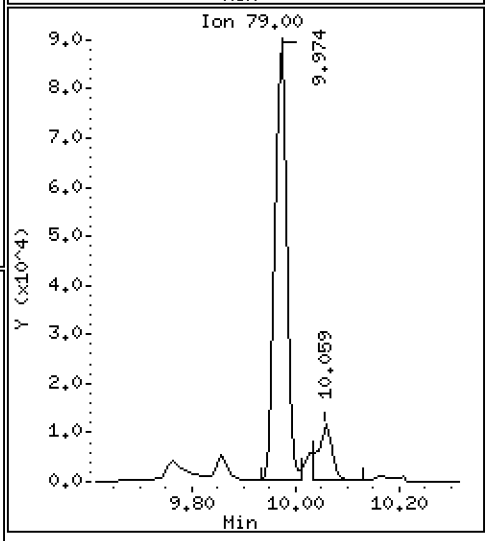
13 2-Methylphenol

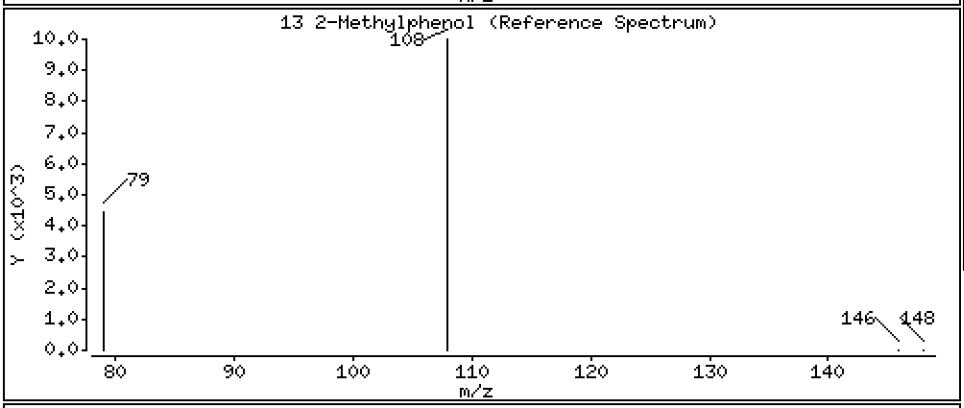
Concentration: 4.937 ug/L

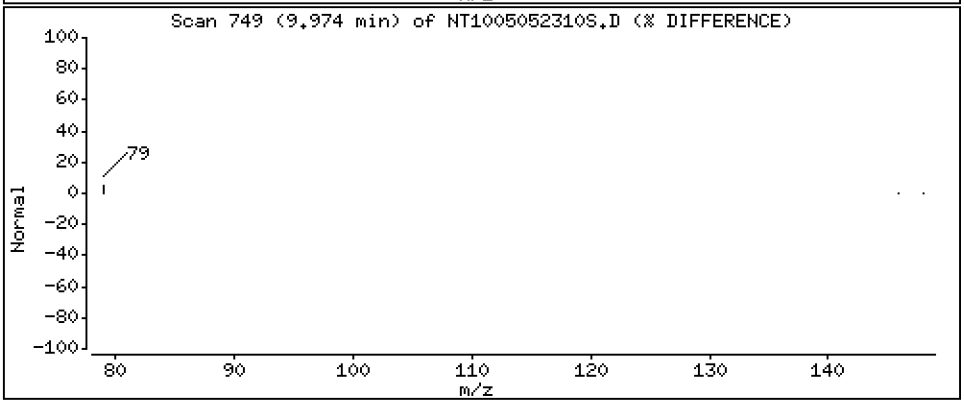












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

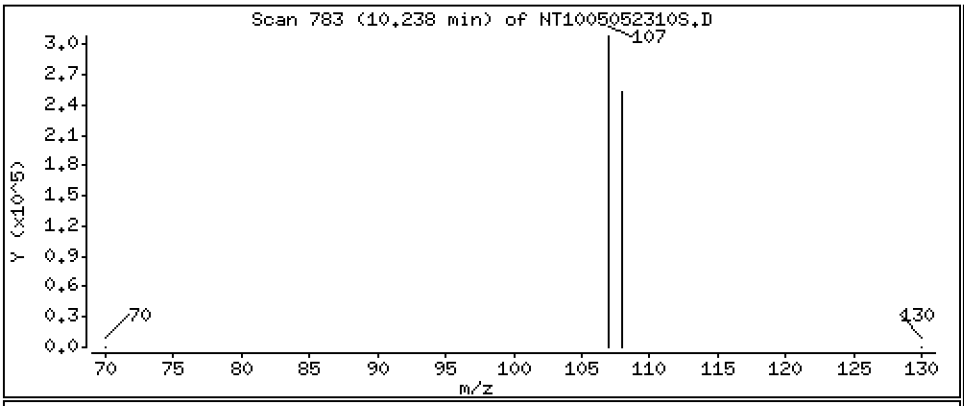
Operator: DSD

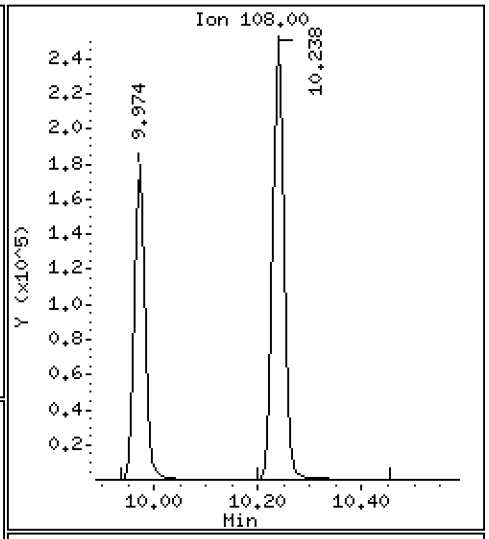
Column phase: ZB-5msi

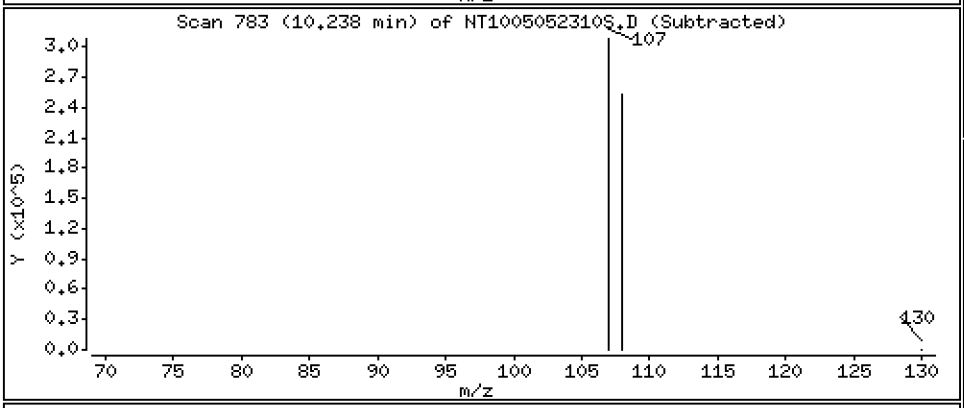
Column diameter: 0.25

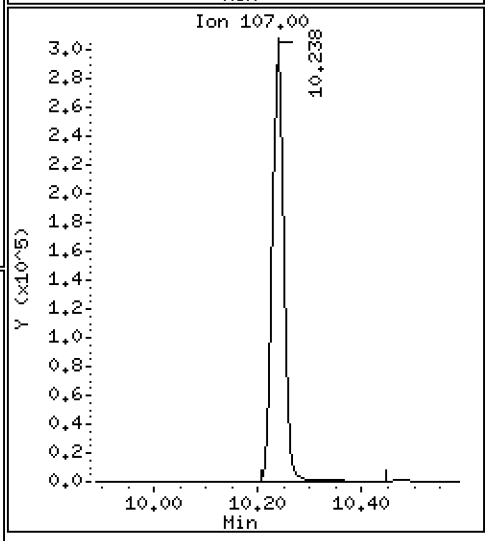
15 4-Methylphenol

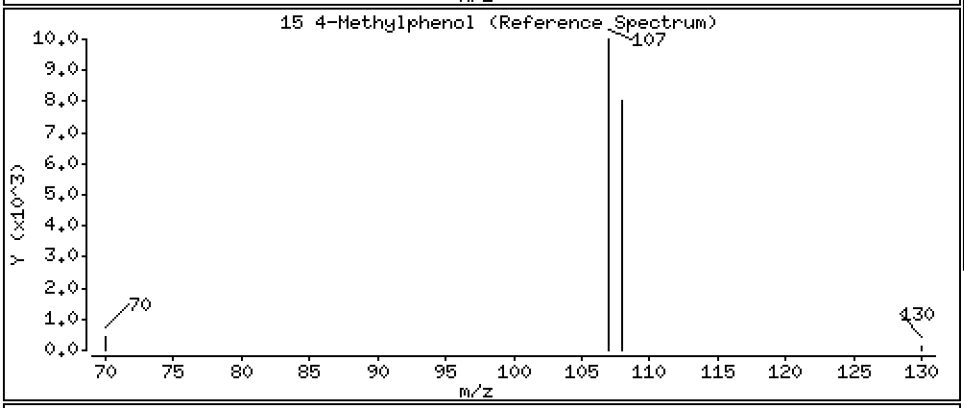
Concentration: 6.202 ug/L

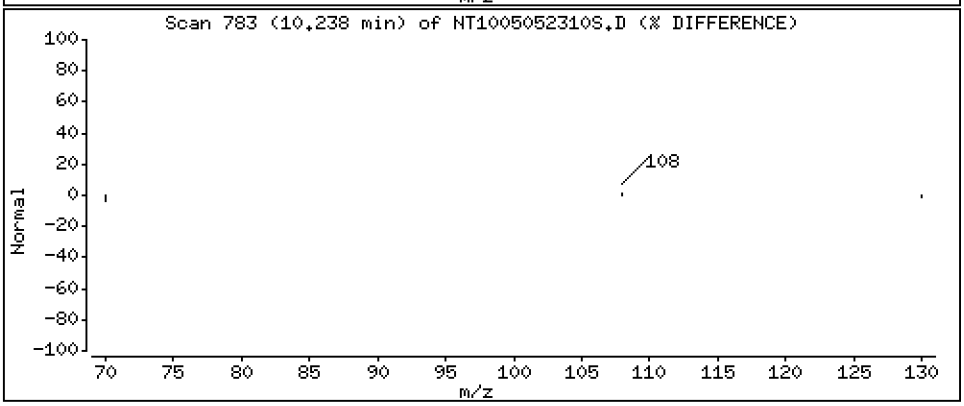












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

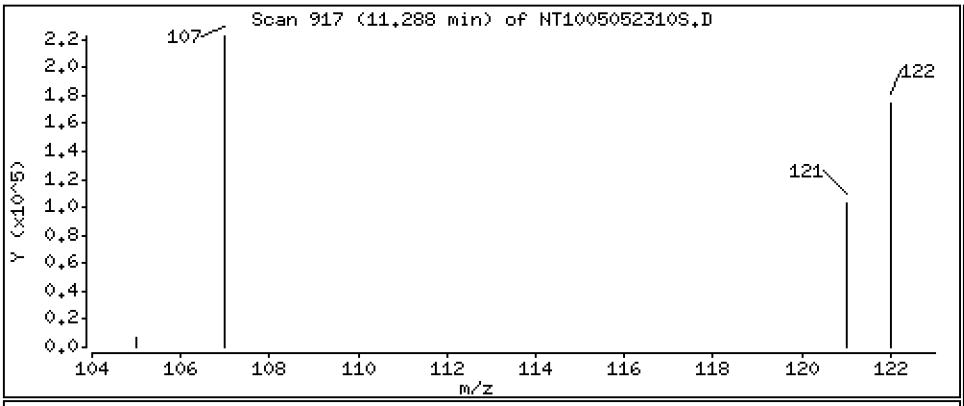
Operator: DSD

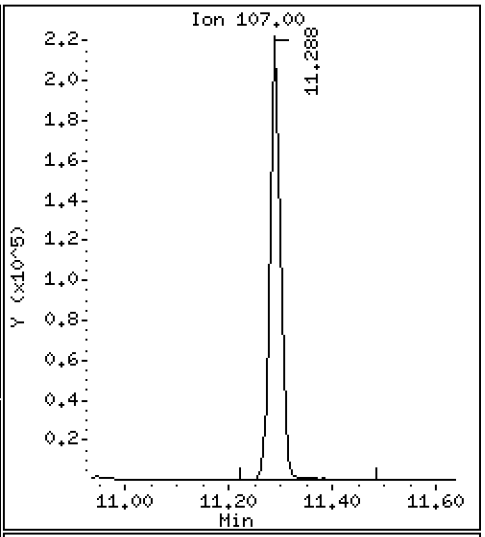
Column phase: ZB-5msi

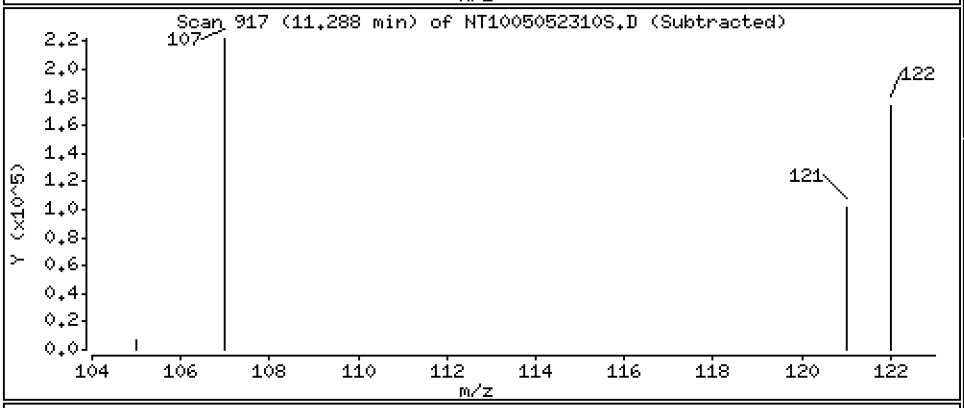
Column diameter: 0.25

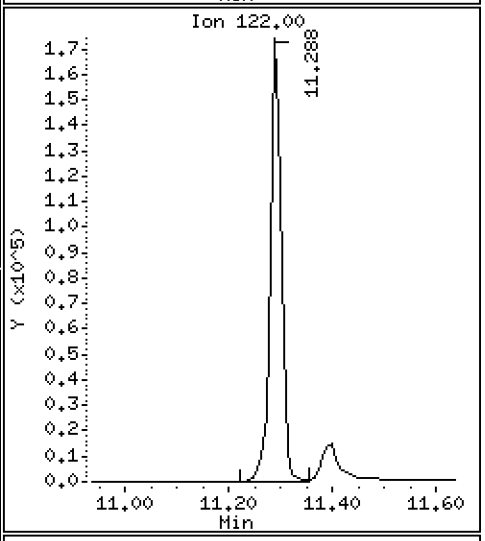
22 2,4-Dimethylphenol

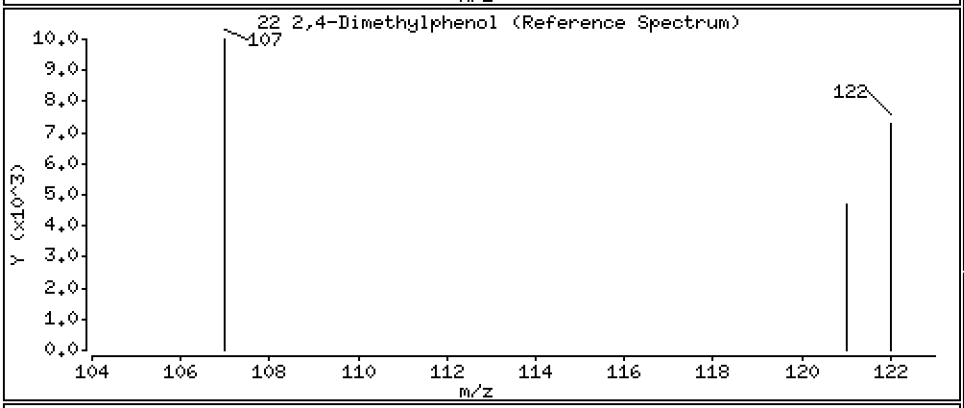
Concentration: 4.596 ug/L

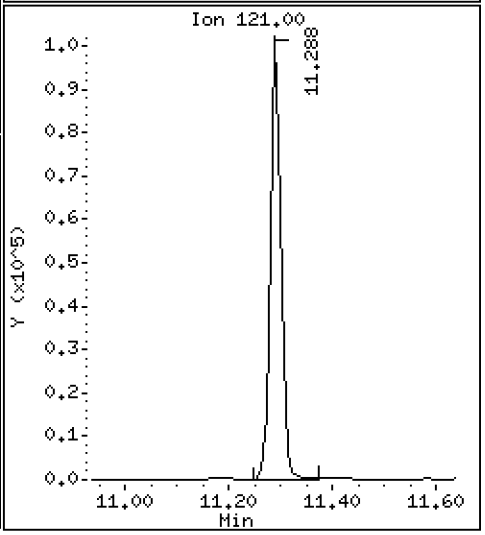


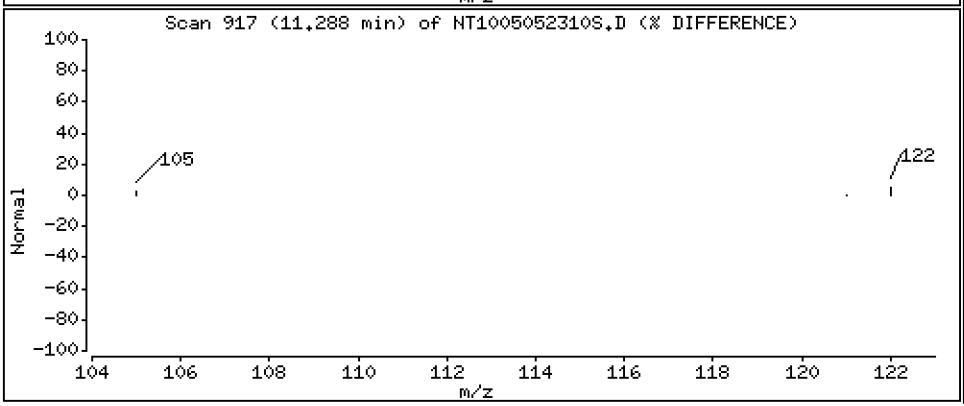












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

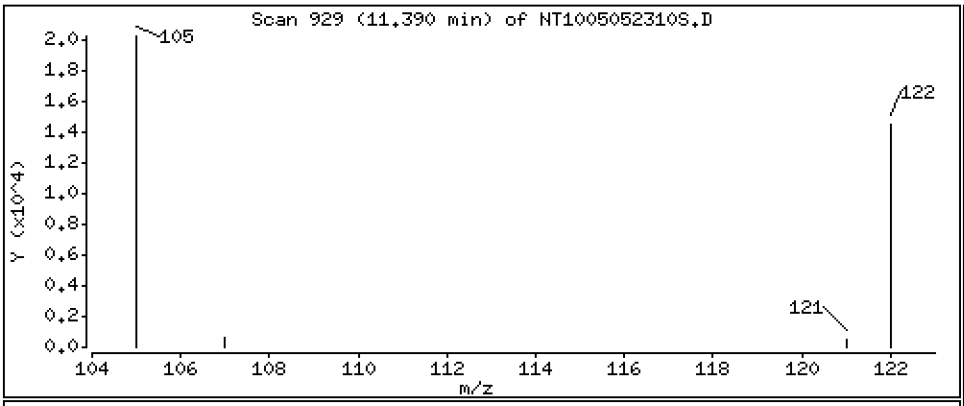
Operator: DSD

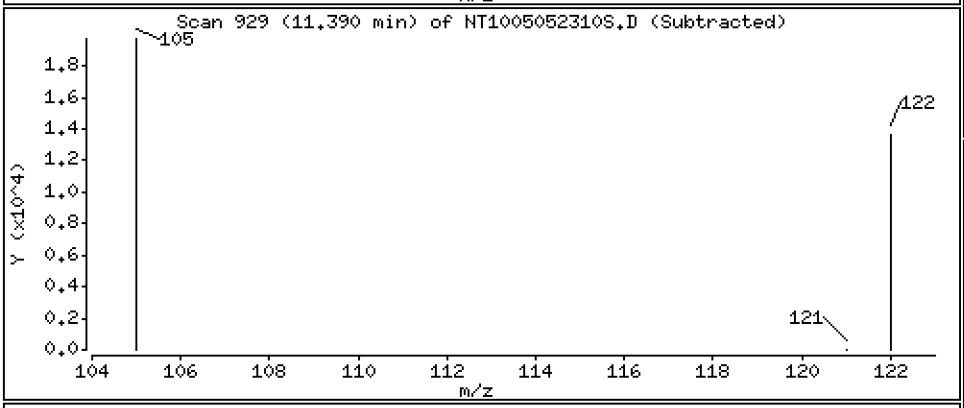
Column phase: ZB-5msi

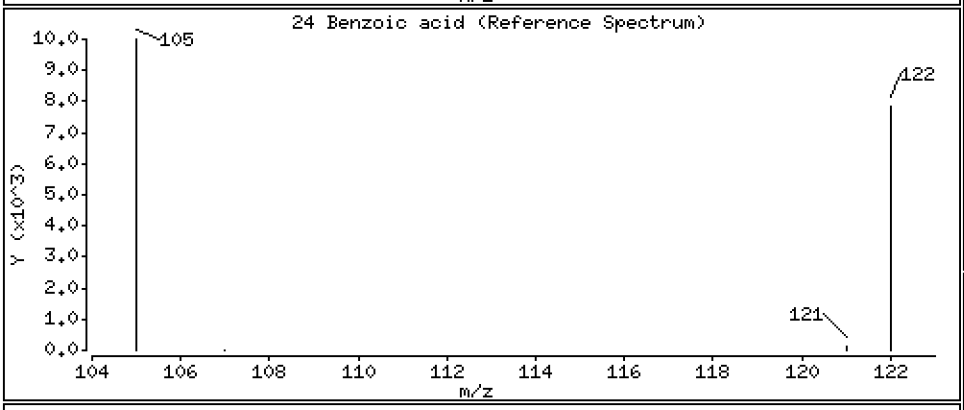
Column diameter: 0.25

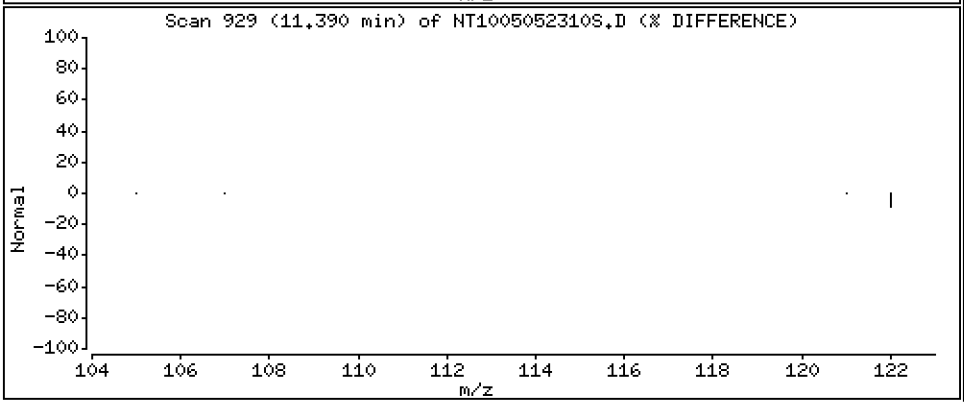
24 Benzoic acid

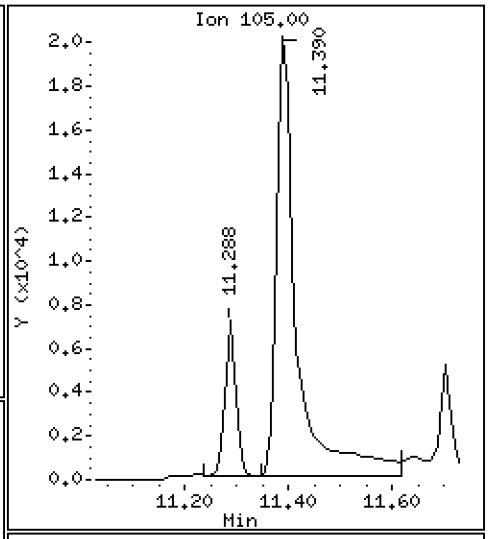
Concentration: 1.205 ug/L

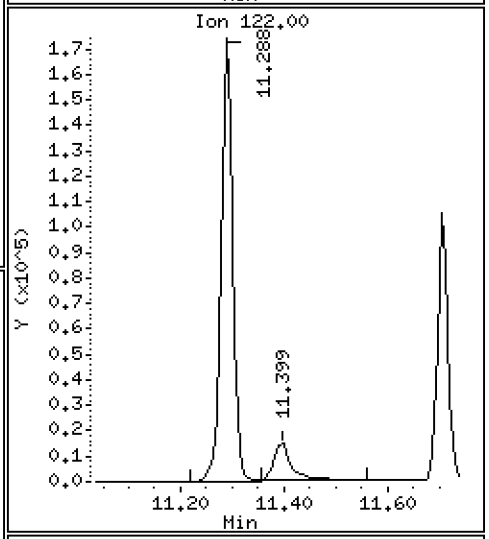


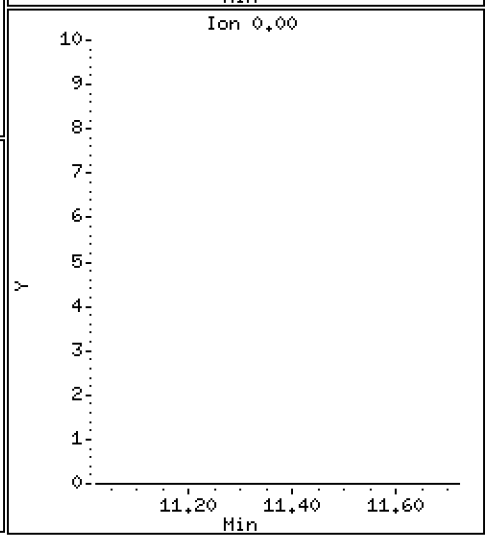












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

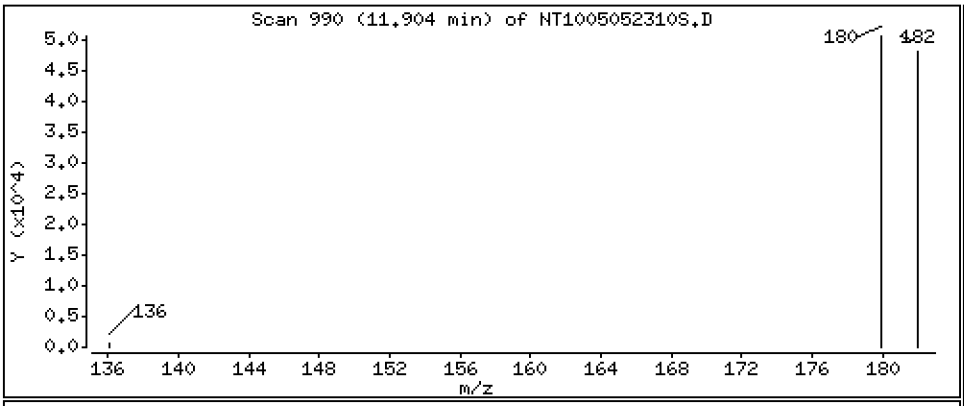
Operator: DSD

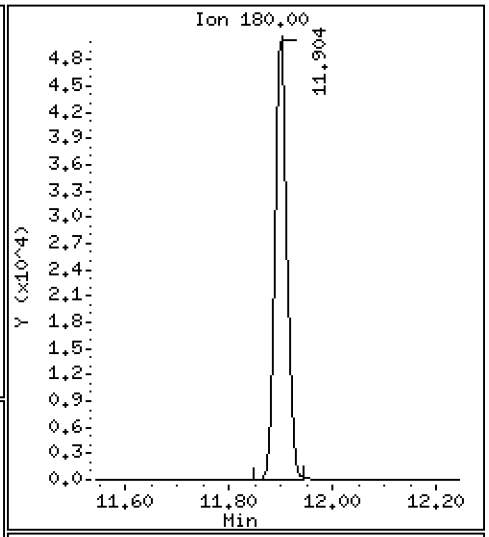
Column phase: ZB-5msi

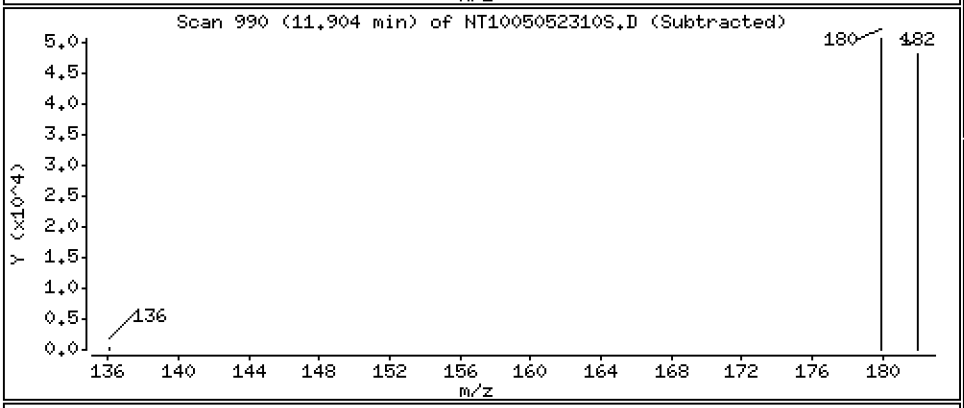
Column diameter: 0.25

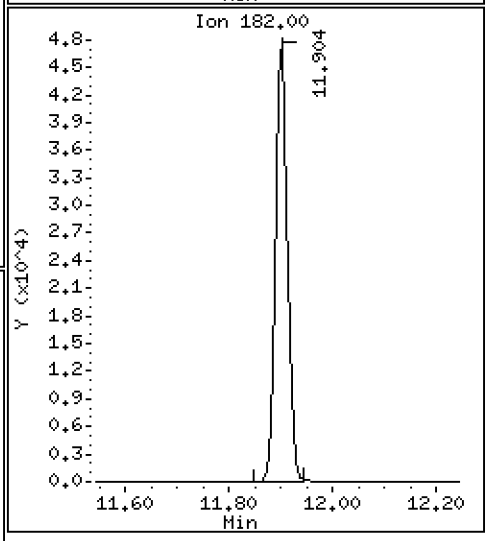
26 1,2,4-Trichlorobenzene

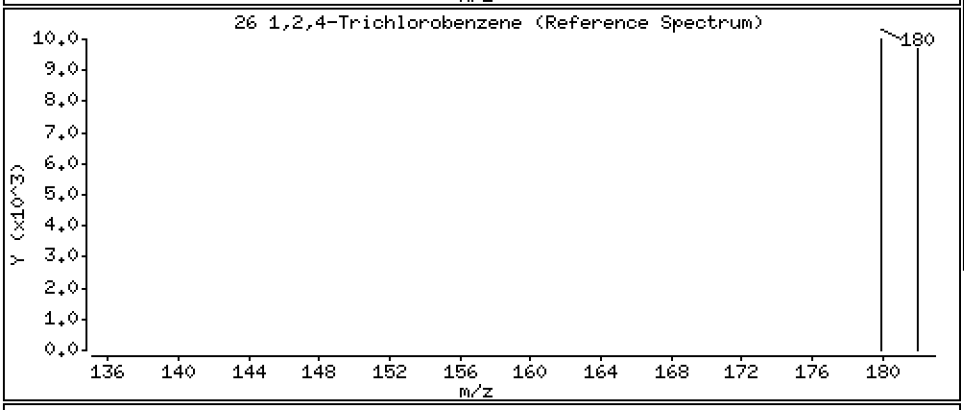
Concentration: 1.132 ug/L

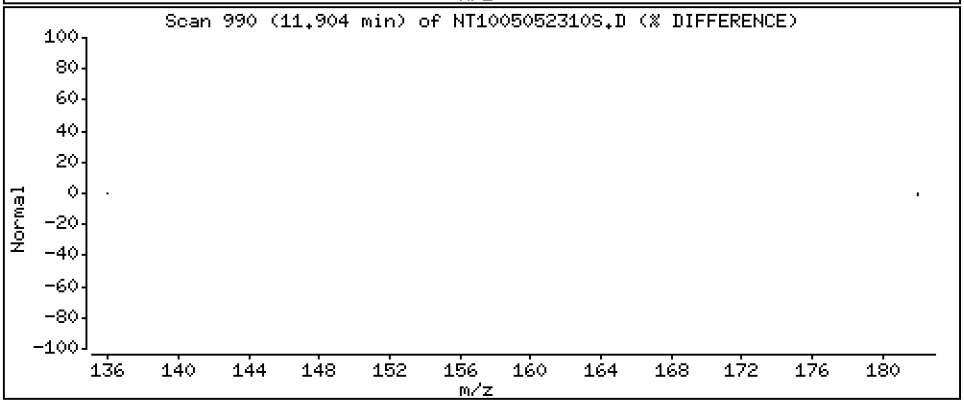












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

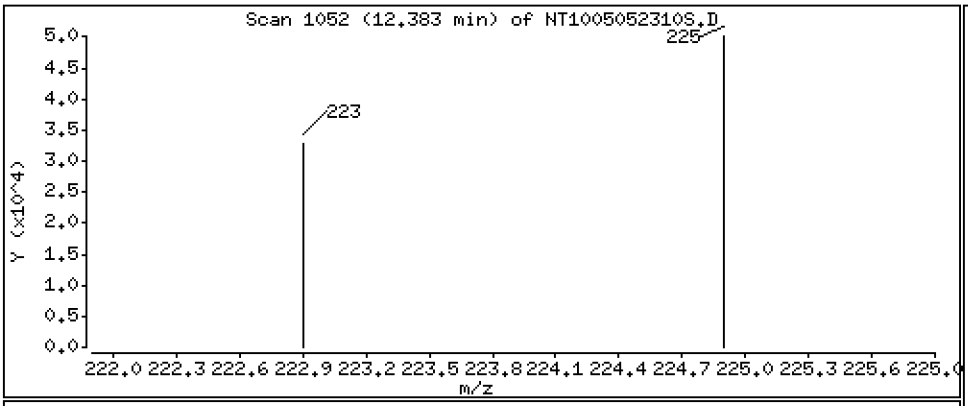
Operator: DSD

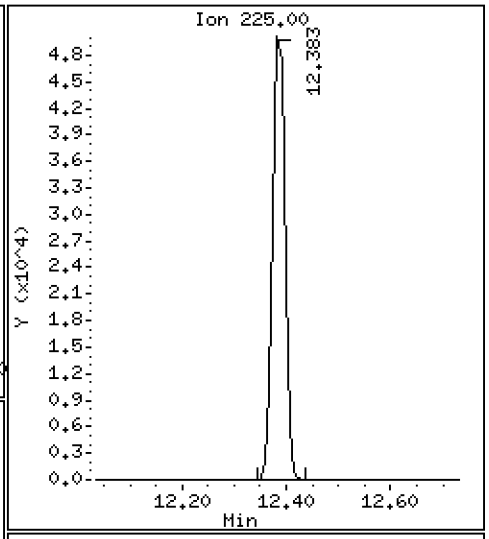
Column phase: ZB-5msi

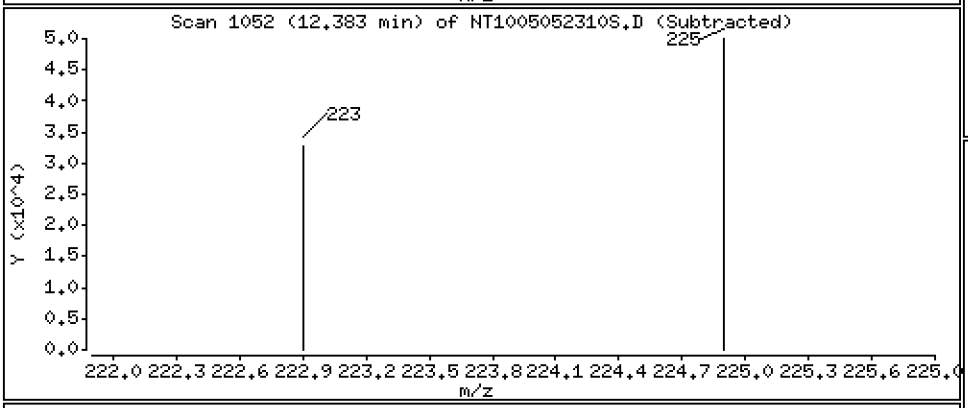
Column diameter: 0.25

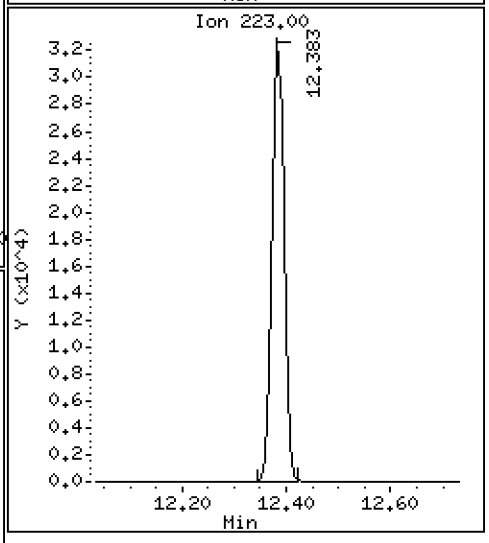
30 Hexachlorobutadiene

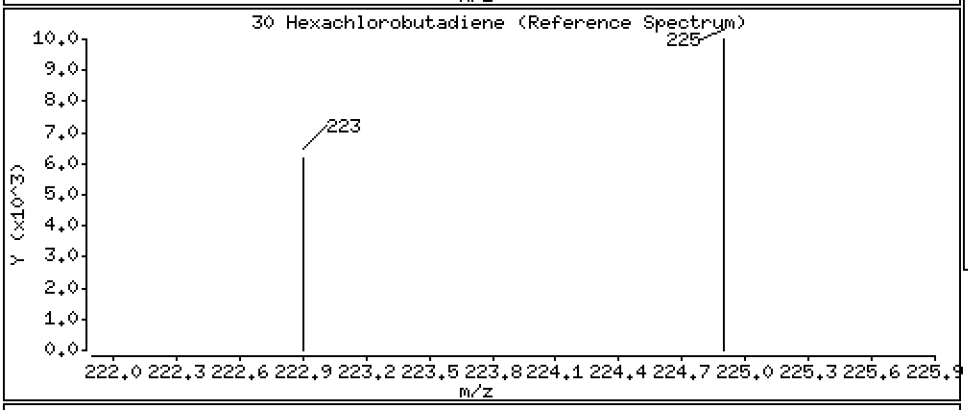
Concentration: 1.699 ug/L

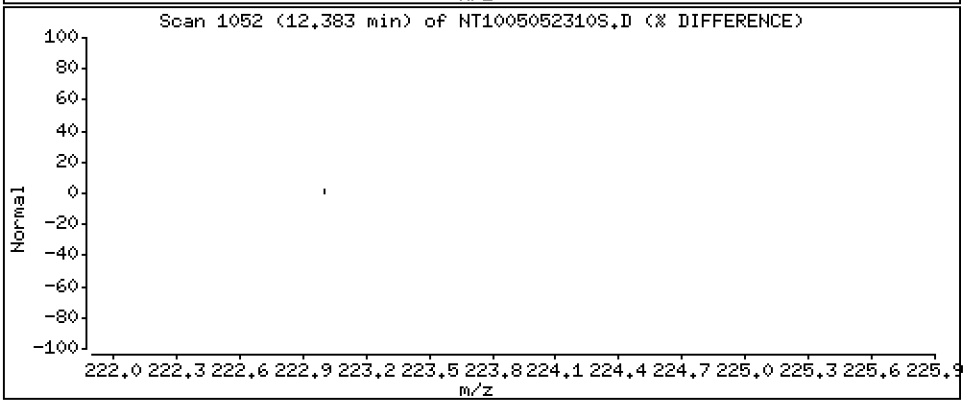












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

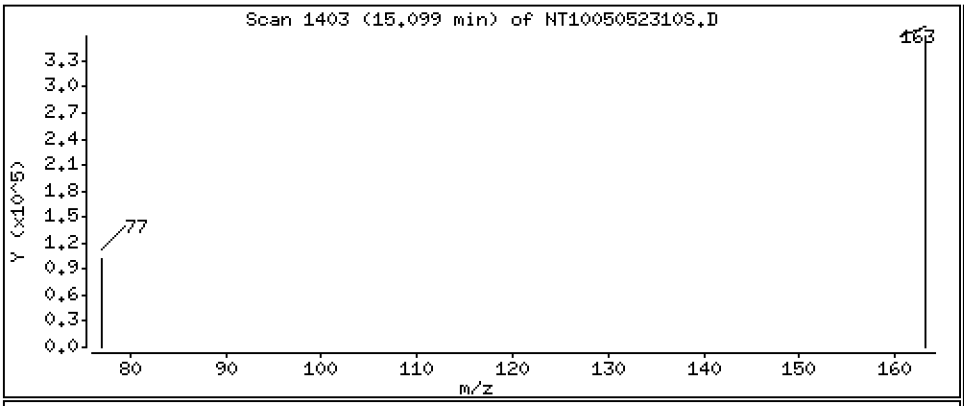
Operator: DSD

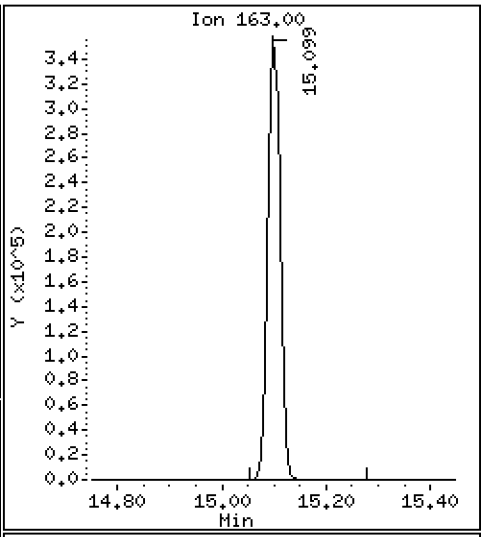
Column phase: ZB-5msi

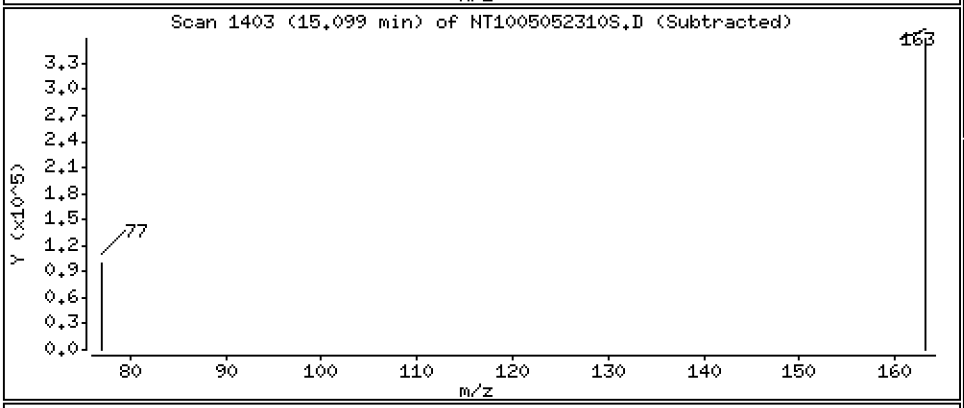
Column diameter: 0.25

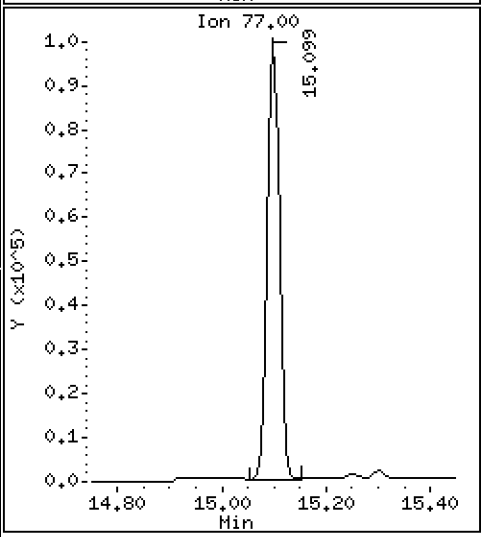
39 Dimethylphthalate

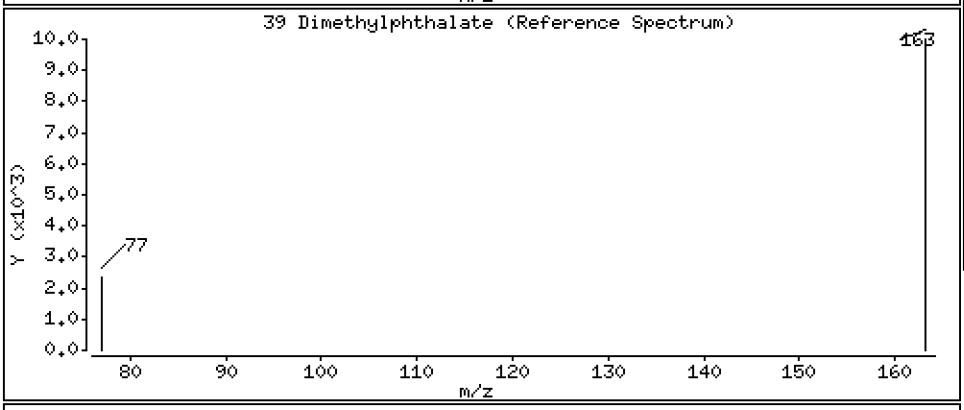
Concentration: 4.105 ug/L

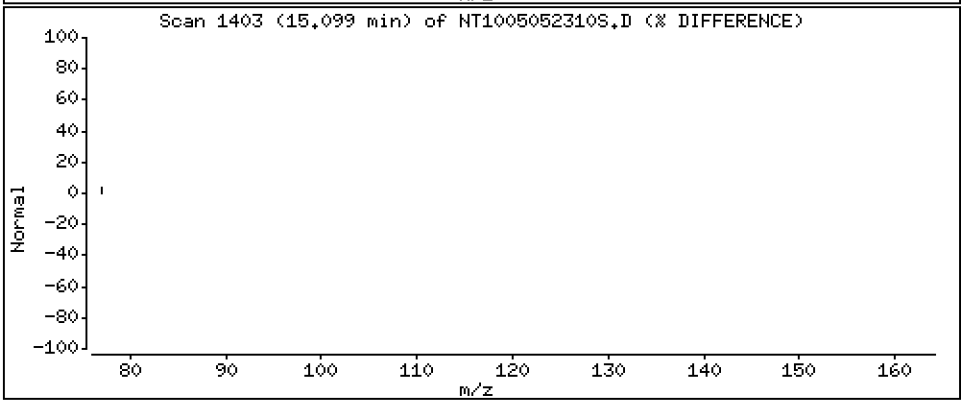












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

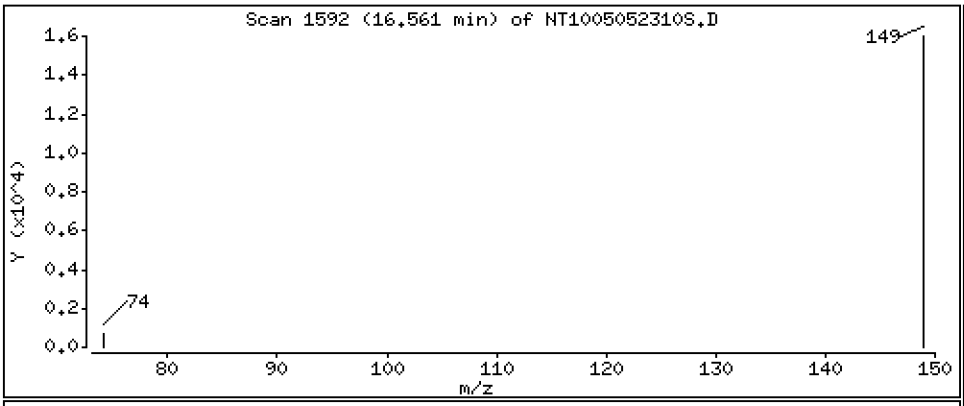
Operator: DSD

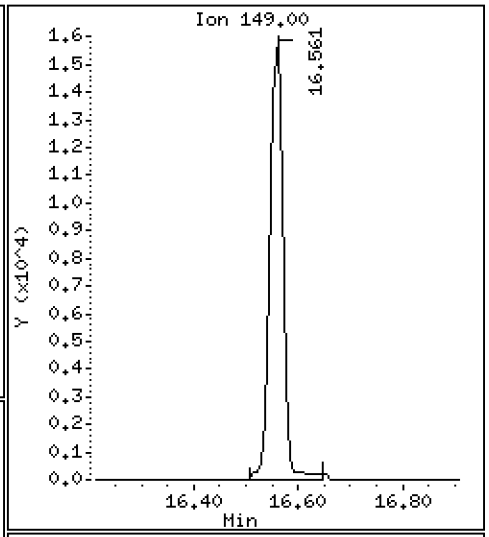
Column phase: ZB-5msi

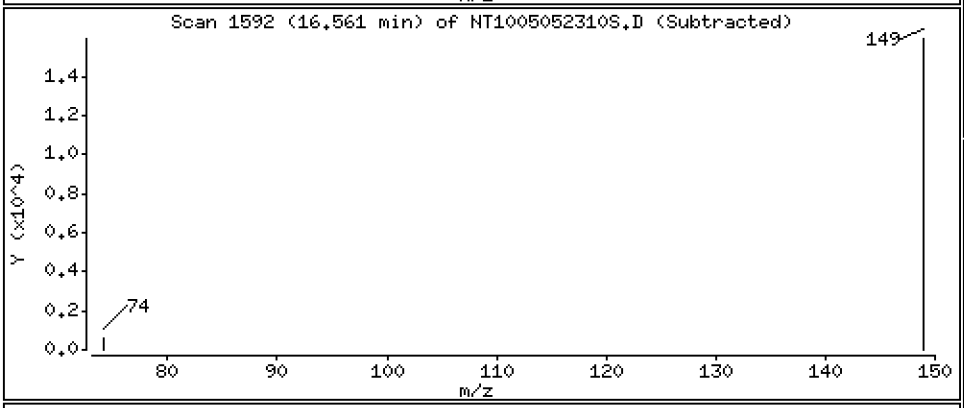
Column diameter: 0.25

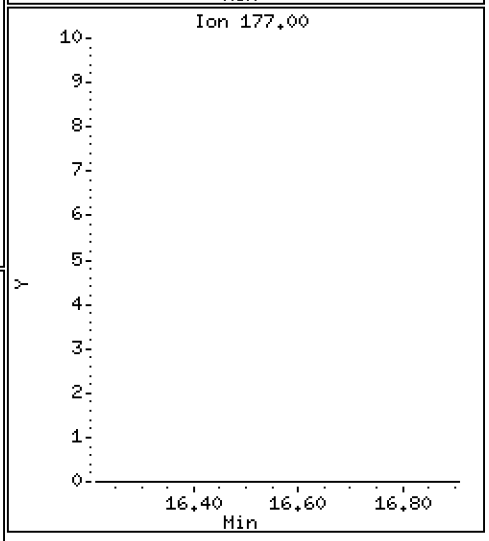
50 Diethylphthalate

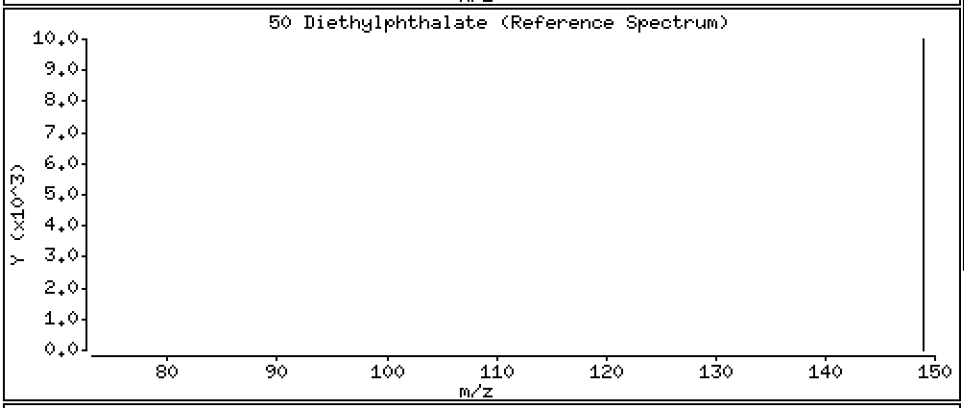
Concentration: 0.1821 ug/L

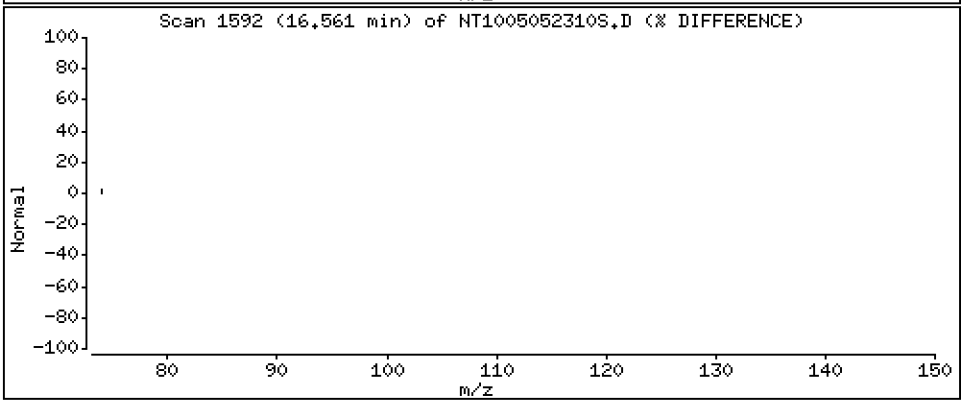












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

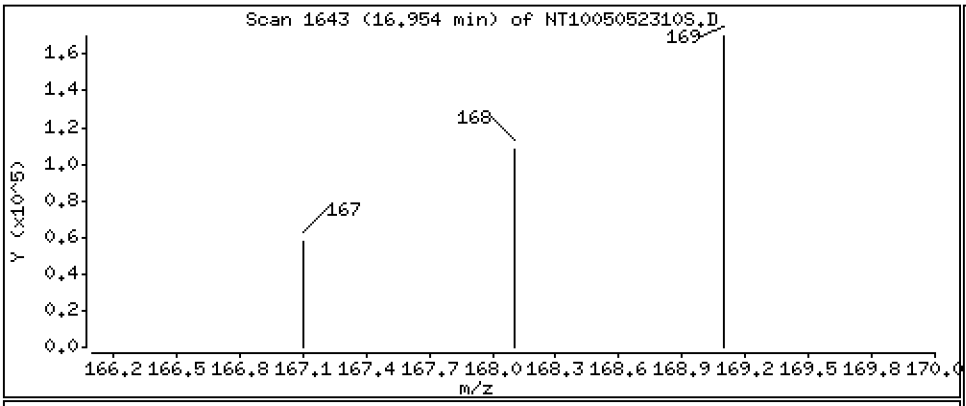
Operator: DSD

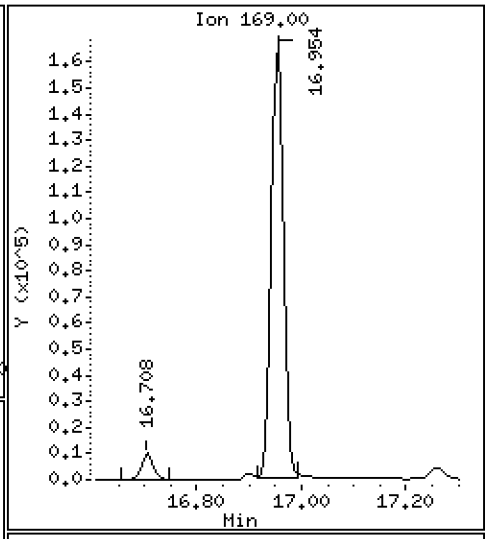
Column phase: ZB-5msi

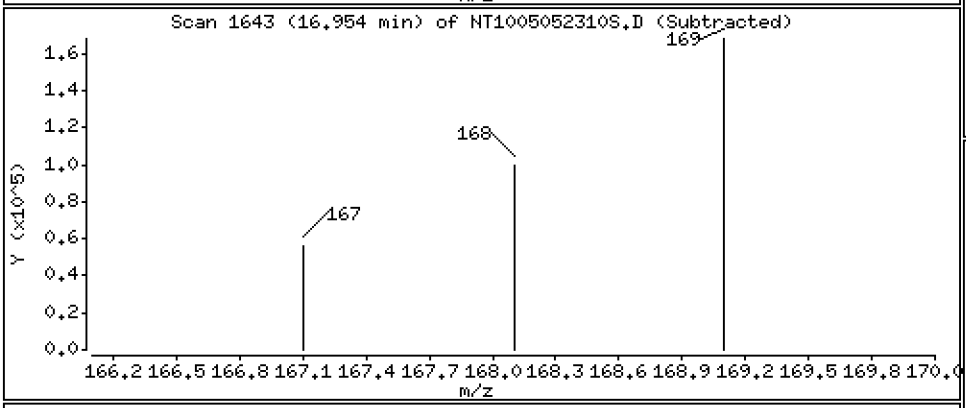
Column diameter: 0.25

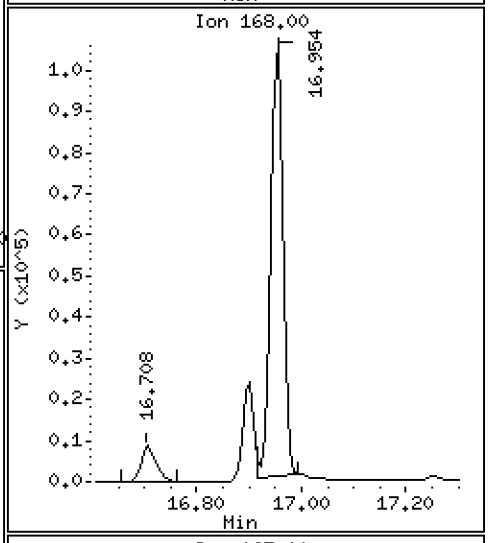
54 N-Nitrosodiphenylamine

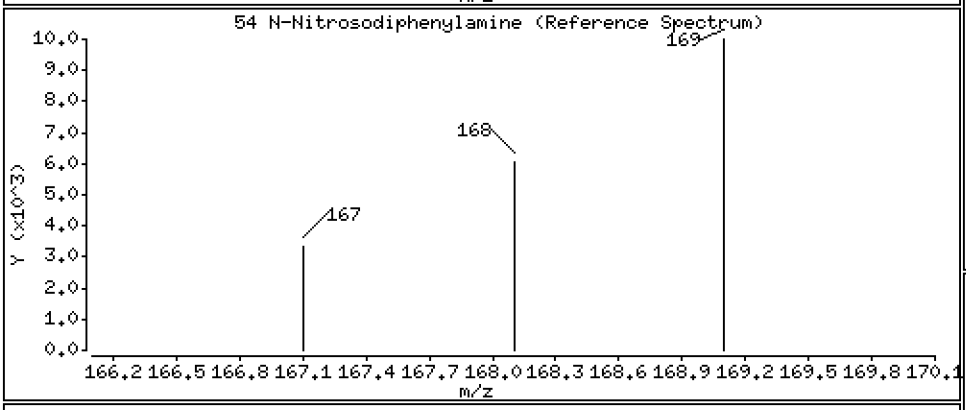
Concentration: 2.636 ug/L

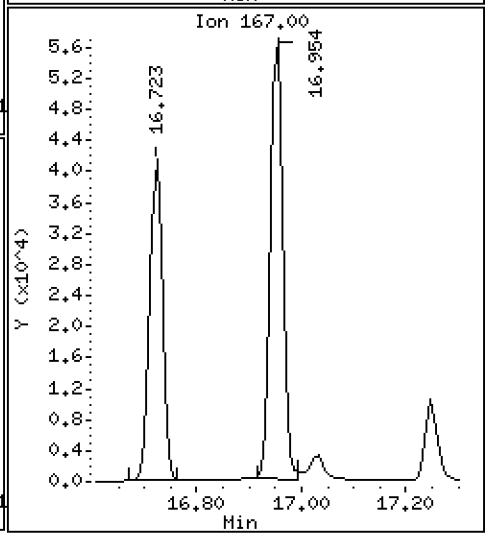


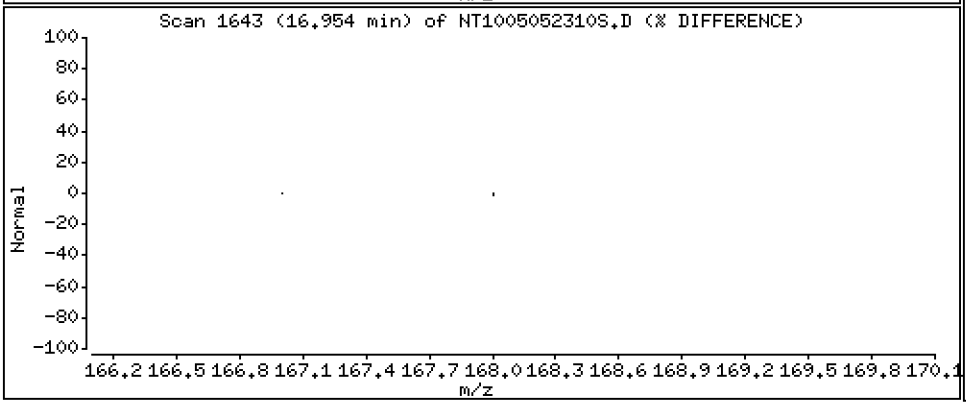












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

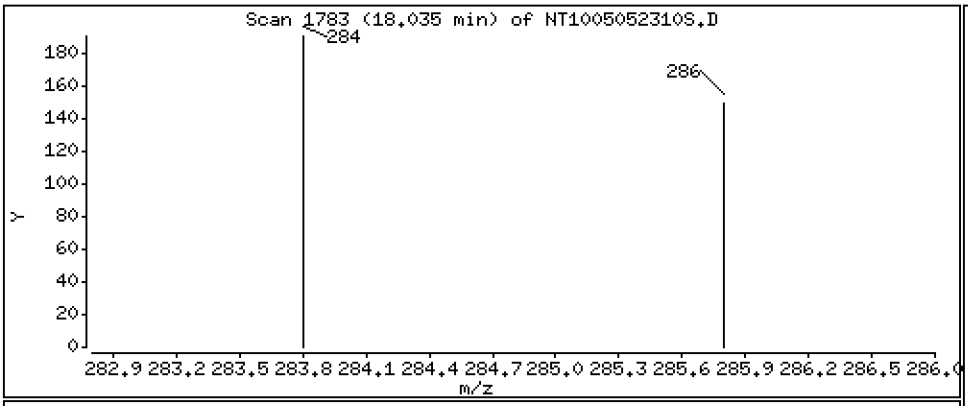
Operator: DSD

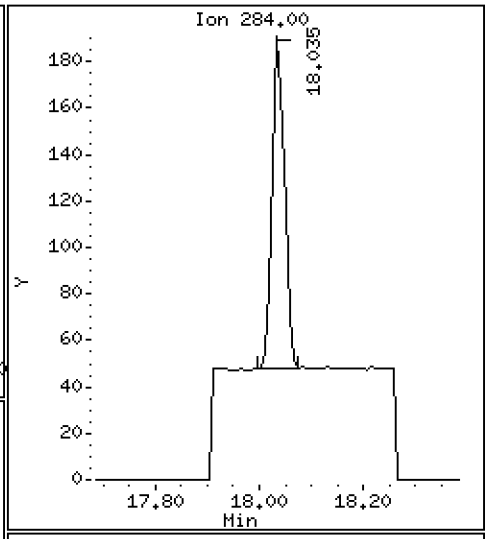
Column phase: ZB-5msi

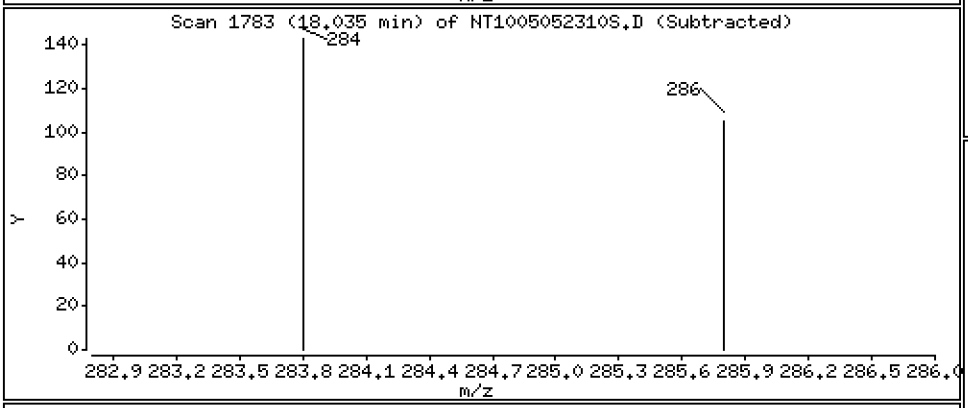
Column diameter: 0.25

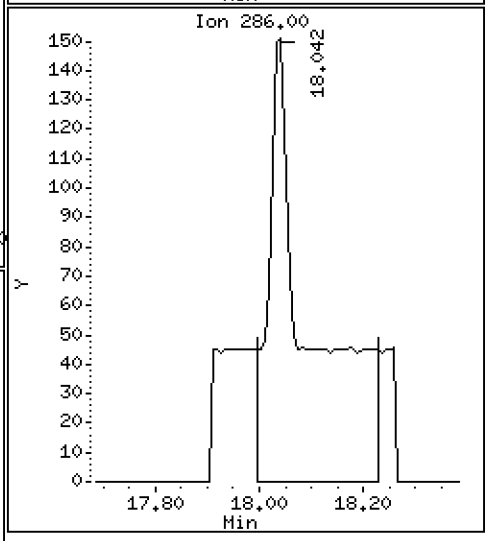
57 Hexachlorobenzene

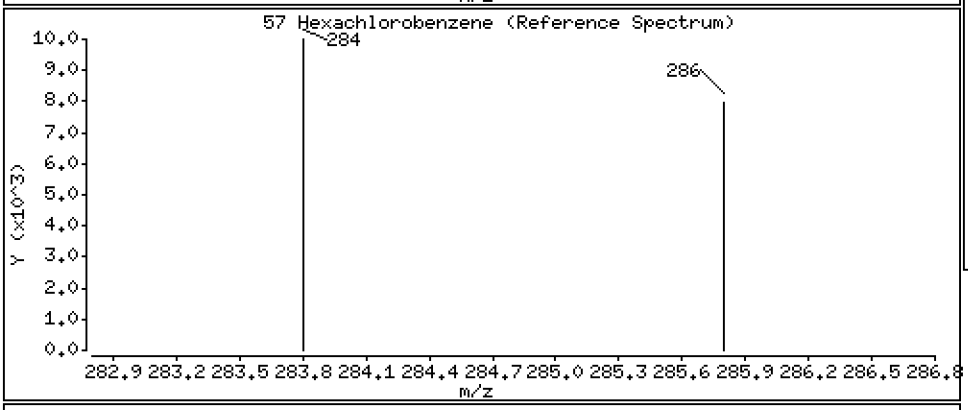
Concentration: 0.004781 ug/L

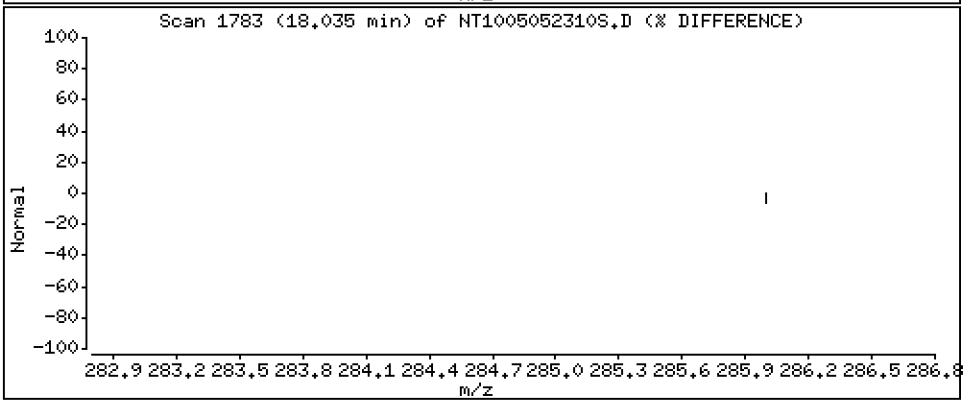












Date : 05-MAY-2023 16:36

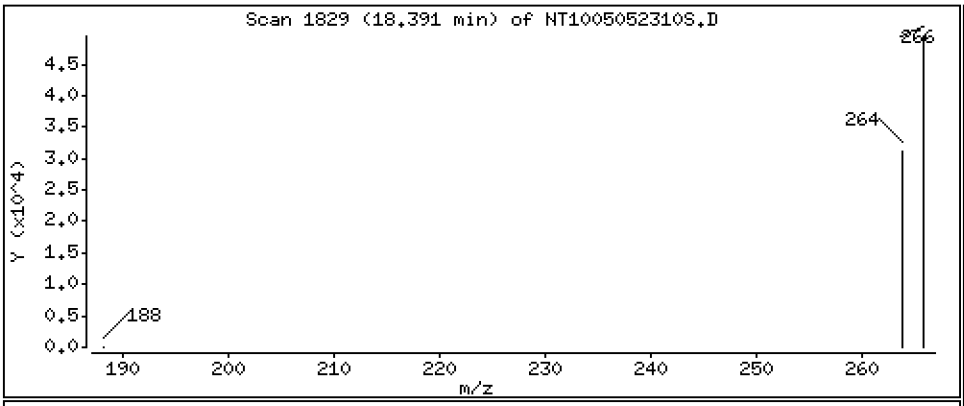
Client ID: Instrument: nt10.i

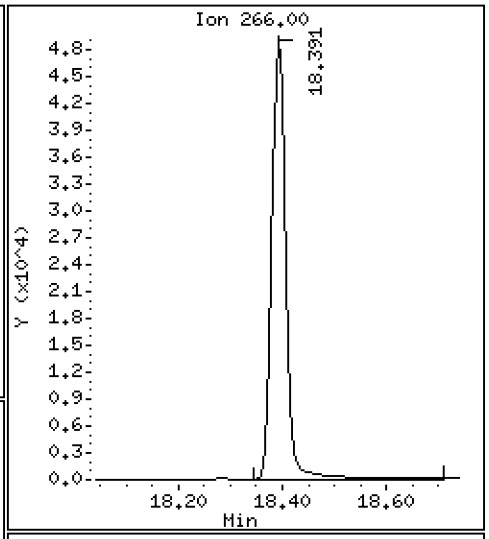
Sample Info: BLD0329-SRM2

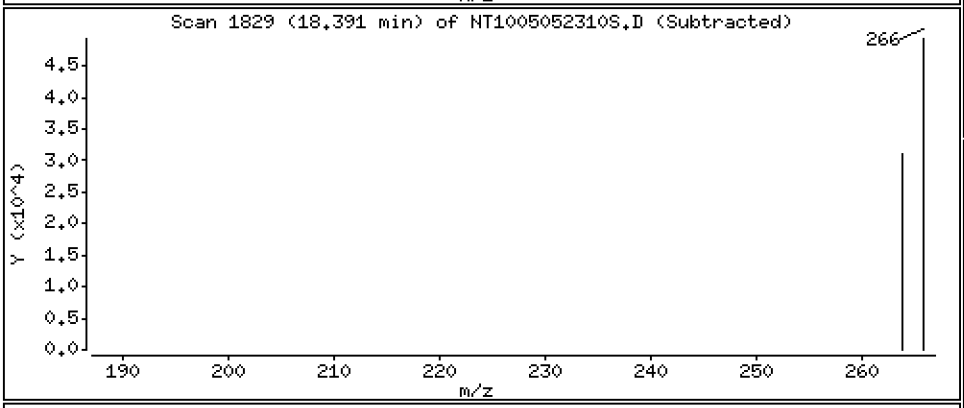
Volume Injected (uL): 1.0 Operator: DSD

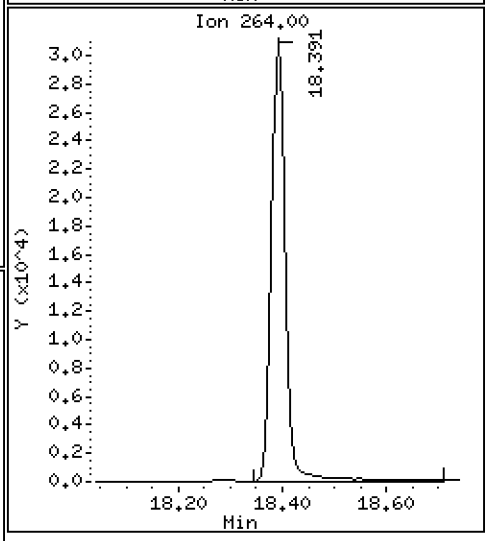
Column phase: ZB-5msi Column diameter: 0.25

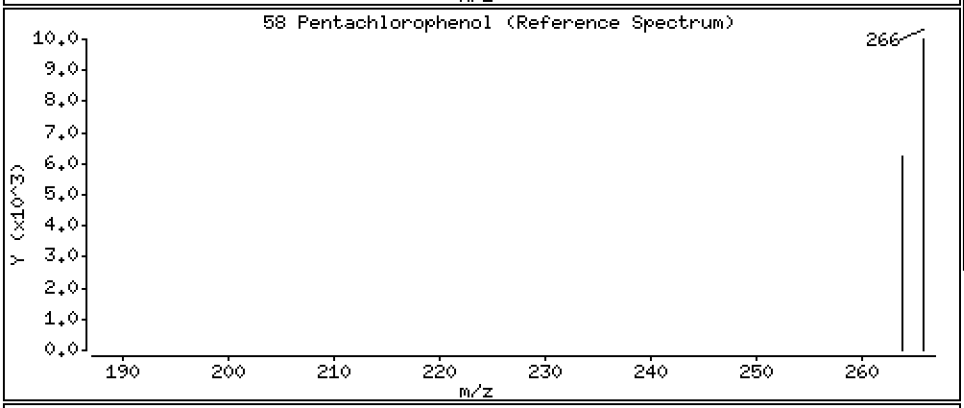
58 Pentachlorophenol Concentration: 3.043 ug/L

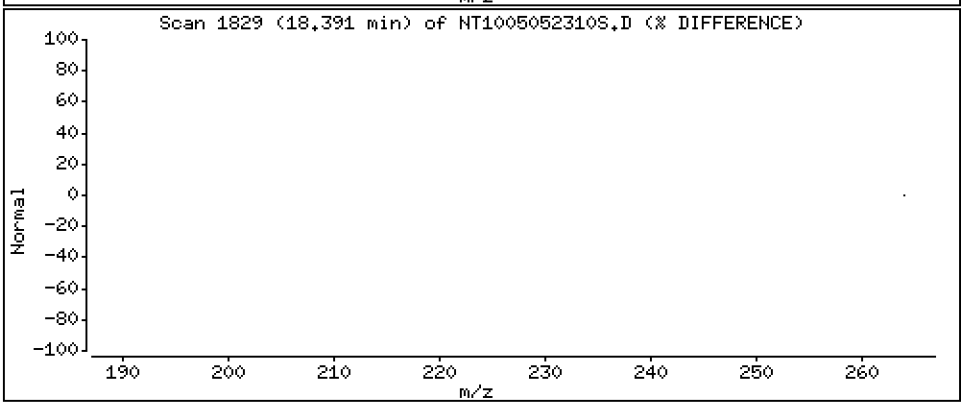












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Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

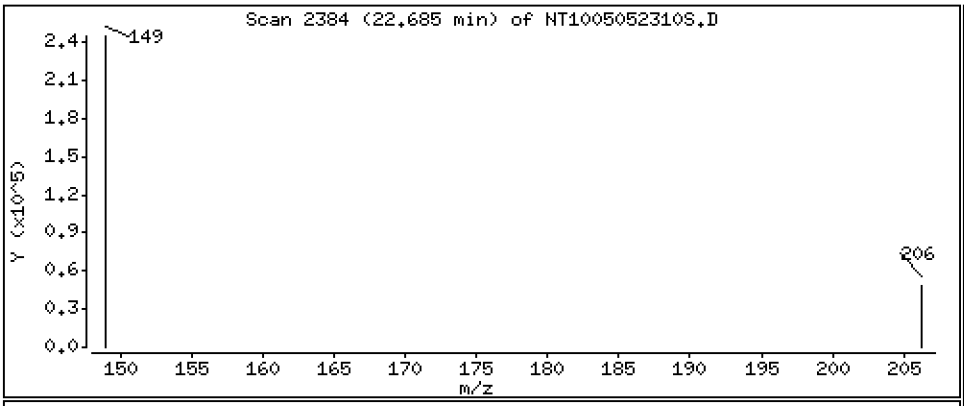
Operator: DSD

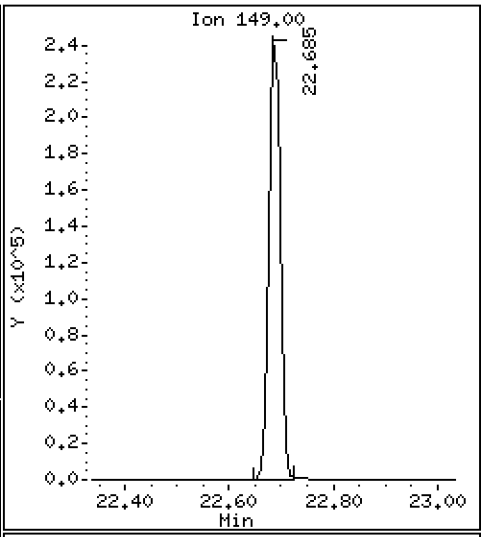
Column phase: ZB-5msi

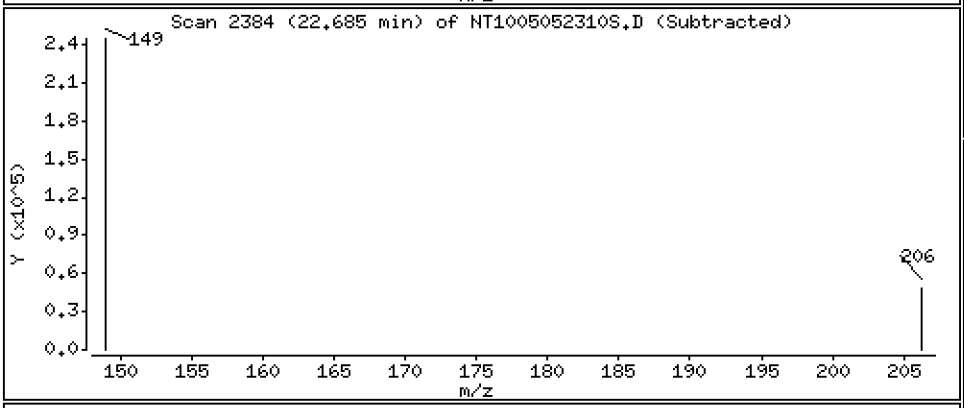
Column diameter: 0.25

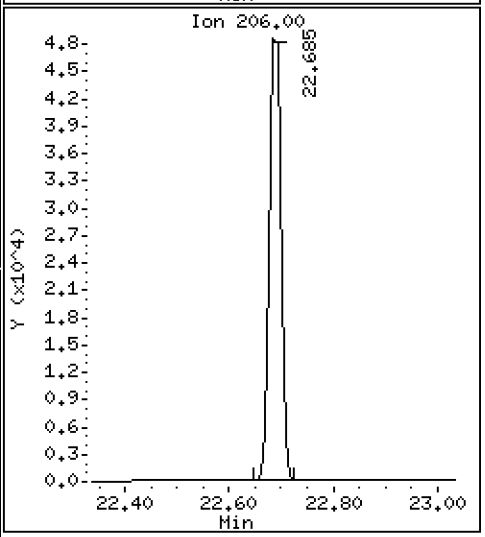
67 Butylbenzylphthalate

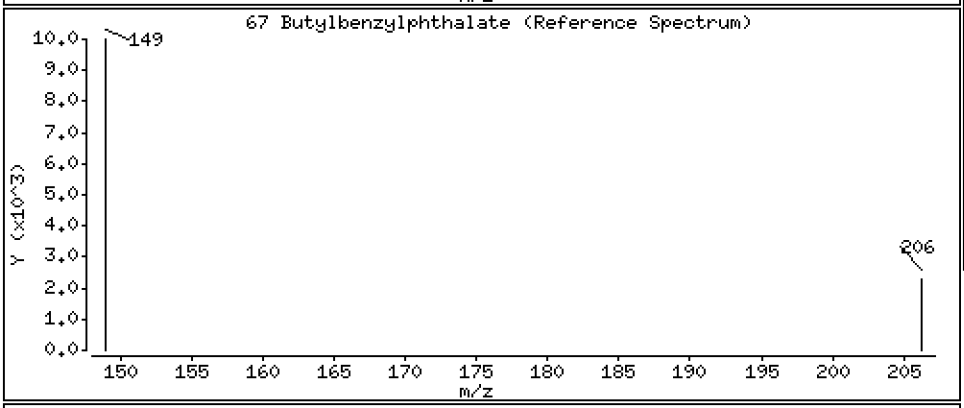
Concentration: 3.323 ug/L

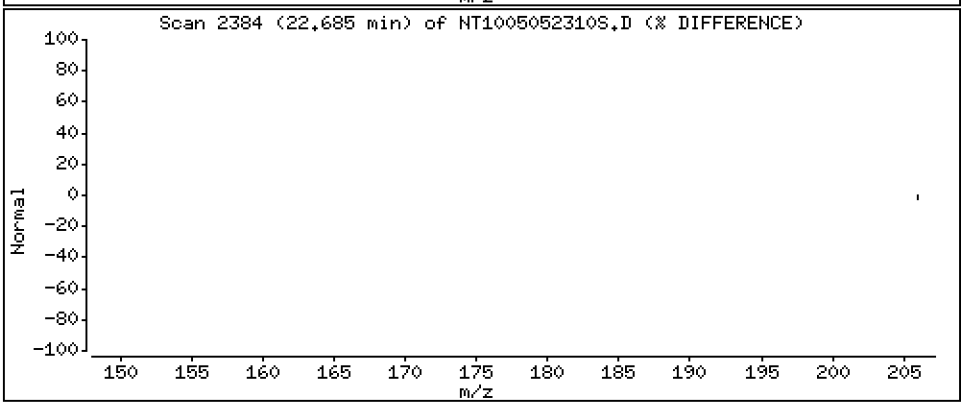












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052310S.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

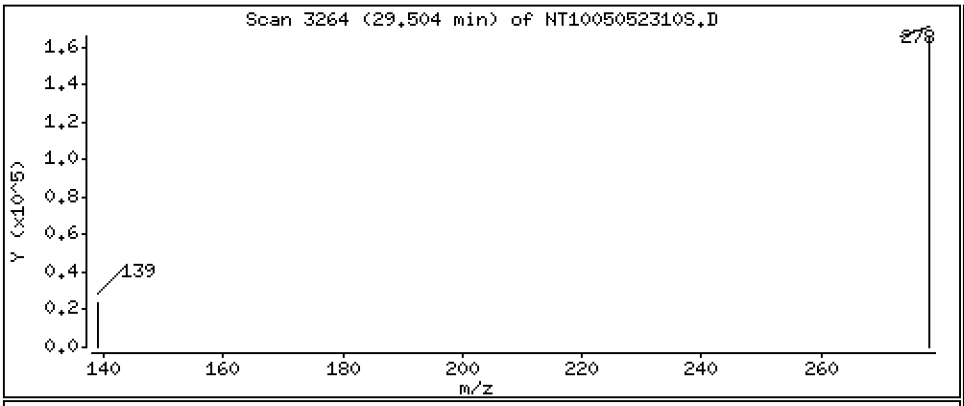
Operator: DSD

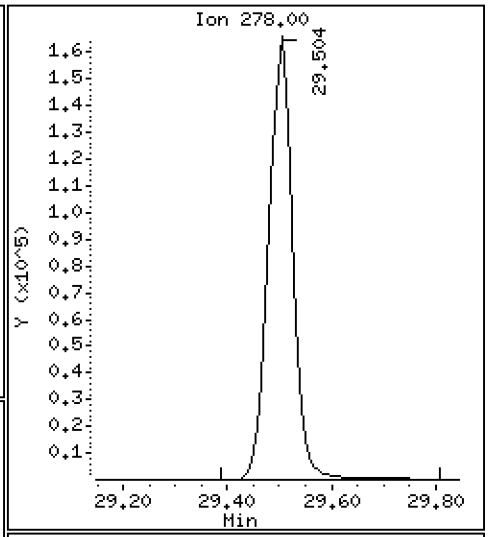
Column phase: ZB-5msi

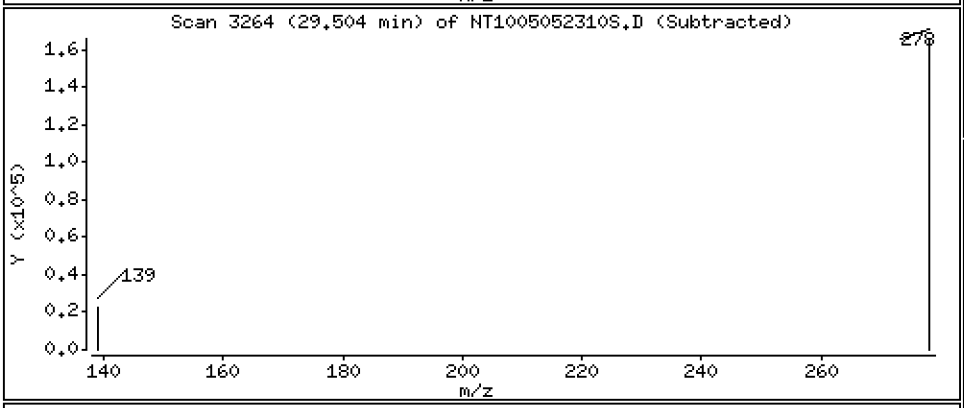
Column diameter: 0.25

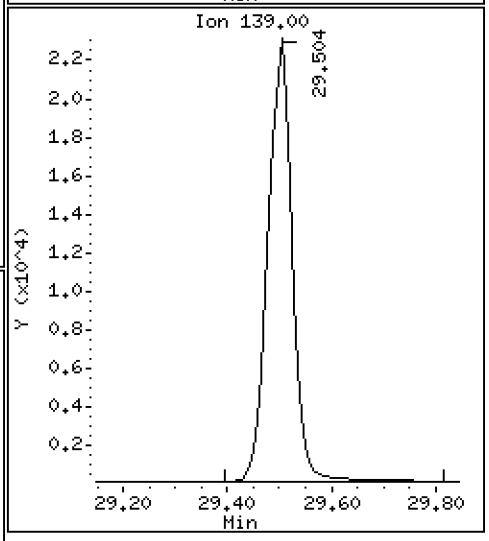
79 Dibenzo(a,h)anthracene

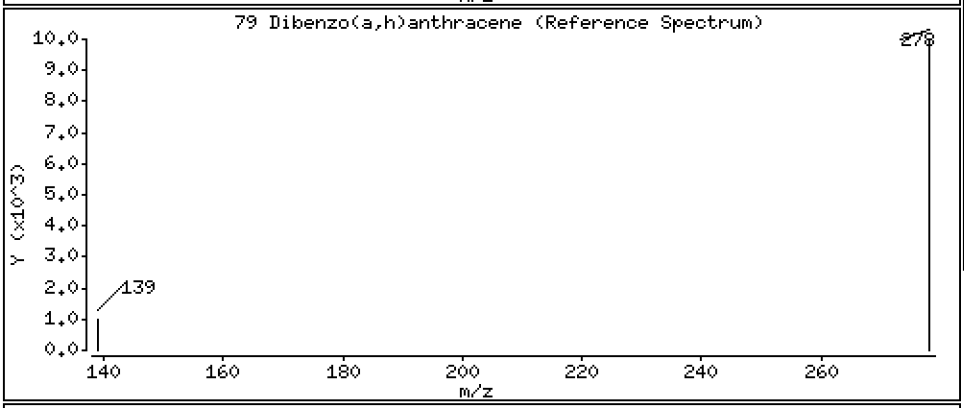
Concentration: 3.197 ug/L

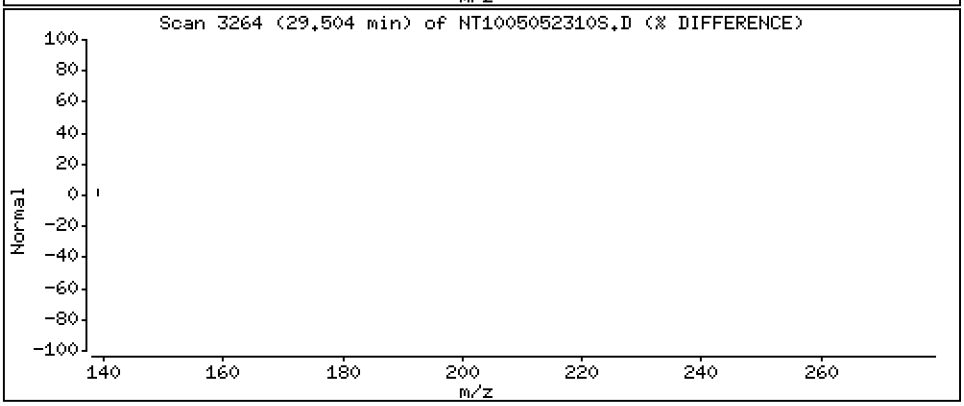












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052310S.D

Date : 05-MAY-2023 16:36

Client ID:

Instrument: nt10.i

Sample Info: BLD0329-SRM2

Volume Injected (uL): 1.0

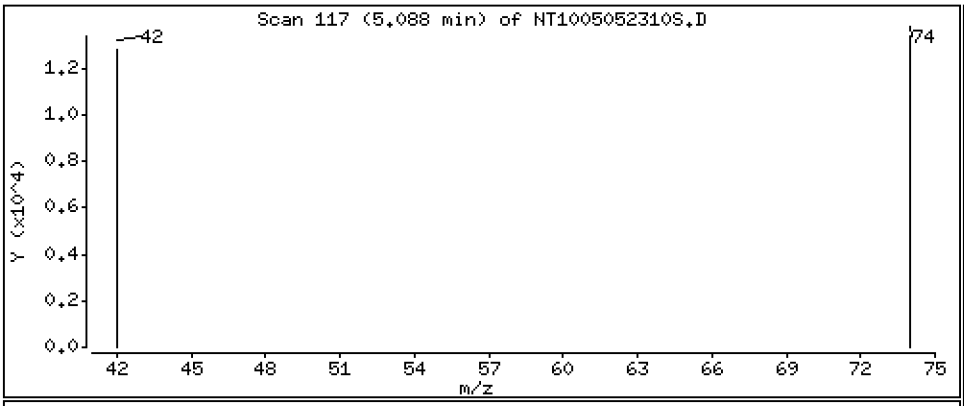
Operator: DSD

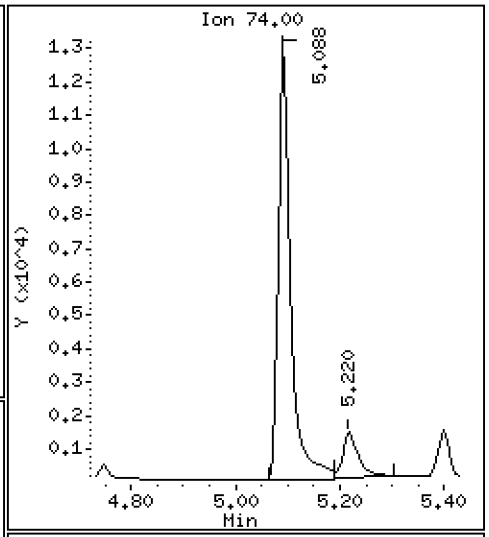
Column phase: ZB-5msi

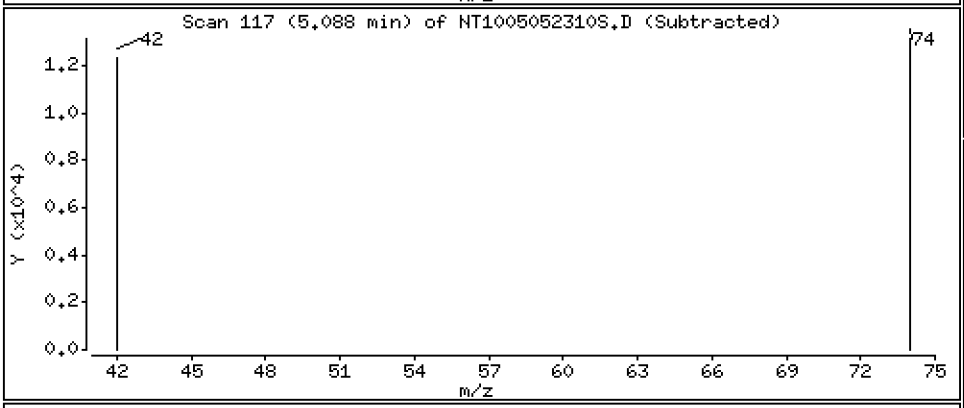
Column diameter: 0.25

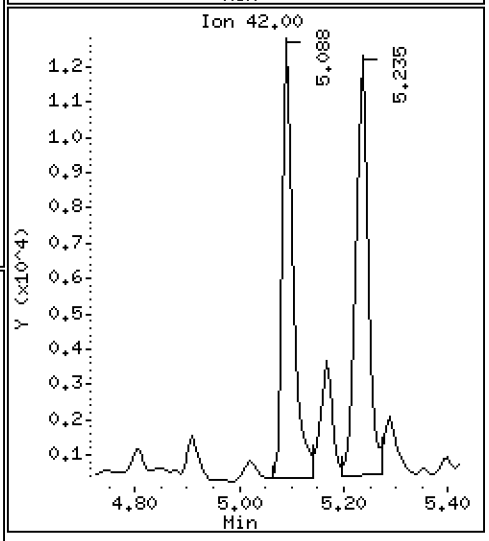
90 N-Nitrosodimethylamine

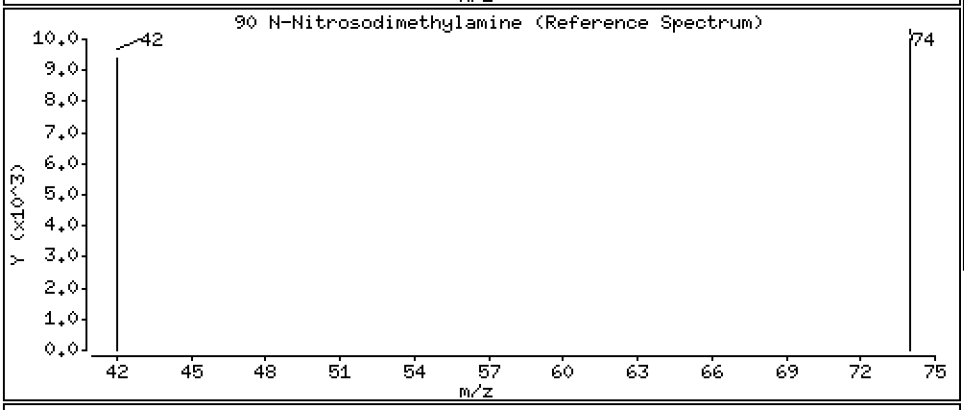
Concentration: 0.6748 ug/L

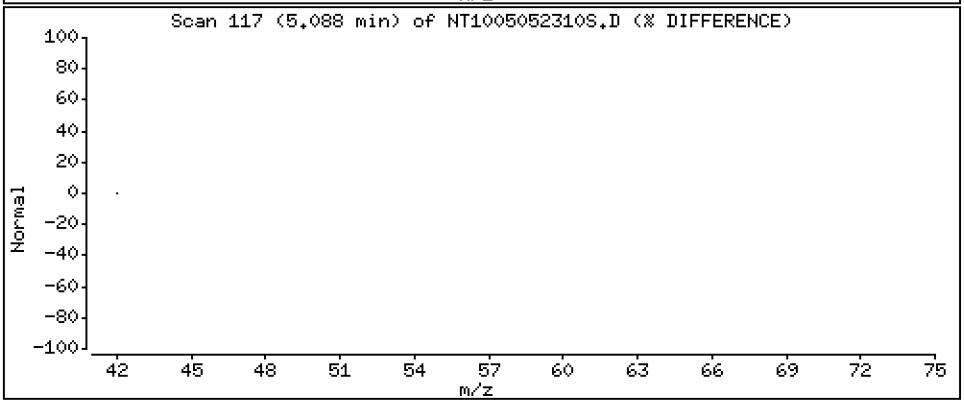












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052310S.D
Lab Smp Id: BLD0329-SRM2
Inj Date : 05-MAY-2023 16:36 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : BLD0329-SRM2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.762)	326066	5.57867	5.579(R)
3	Phenol	94	8.850	8.842	(0.932)	149091	2.03636	2.036
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	73515	0.95476	0.9548
* 8	1,4-Dichlorobenzene-d4	152	9.500	9.492	(1.000)	191872	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	79	9.763	9.756	(1.028)	11346	0.22409	0.2241
12	1,2-Dichlorobenzene	146	9.888	9.880	(1.041)	529	0.00721	0.007212
13	2-Methylphenol	108	9.973	9.965	(1.050)	270492	4.93656	4.937
15	4-Methylphenol	108	10.237	10.237	(1.078)	357287	6.20154	6.202
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	11.288	11.288	(0.942)	322490	4.59633	4.596
24	Benzoic acid	105	11.390	11.381	(0.950)	55199	1.20539	1.205
26	1,2,4-Trichlorobenzene	180	11.904	11.896	(0.993)	81497	1.13217	1.132
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	706133	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	78099	1.69926	1.699
39	Dimethylphthalate	163	15.099	15.099	(0.967)	557180	4.10455	4.105
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	358098	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	26537	0.18206	0.1821
54	N-Nitrosodiphenylamine	169	16.954	16.954	(0.908)	253312	2.63593	2.636
57	Hexachlorobenzene	284	18.034	18.034	(0.966)	225	0.00478	0.004781(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.390	18.390	(0.985)	87957	3.04268	3.043
*	59 Phenanthrene-d10	188	18.669	18.669	(1.000)	736880	4.00000	
$	66 Terphenyl-d14	244	21.771	21.771	(0.919)	590845	4.84117	4.841(R)
	67 Butylbenzylphthalate	149	22.685	22.685	(0.958)	342232	3.32344	3.323
*	69 Chrysene-d12	240	23.692	23.684	(1.000)	566007	4.00000	
*	77 Perylene-d12	264	26.525	26.517	(1.000)	516238	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.504	29.496	(1.112)	532785	3.19727	3.197
	90 N-Nitrosodimethylamine	74	5.088	5.080	(0.536)	21517	0.67482	0.6748

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052310S.D
Lab Smp Id: BLD0329-SRM2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	191872	5.02
27 Naphthalene-d8	662220	331110	1324440	706133	6.63
42 Acenaphthene-d10	335558	167779	671116	358098	6.72
59 Phenanthrene-d10	678190	339095	1356380	736880	8.65
69 Chrysene-d12	566969	283485	1133938	566007	-0.17
77 Perylene-d12	522906	261453	1045812	516238	-1.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.67	0.00
69 Chrysene-d12	23.68	23.18	24.18	23.69	0.03
77 Perylene-d12	26.52	26.02	27.02	26.53	0.03

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

REVIEW SUMMARY FOR FILE - NT1005052310S.D

Lab ID: BLD0329-SRM2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 16:36

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

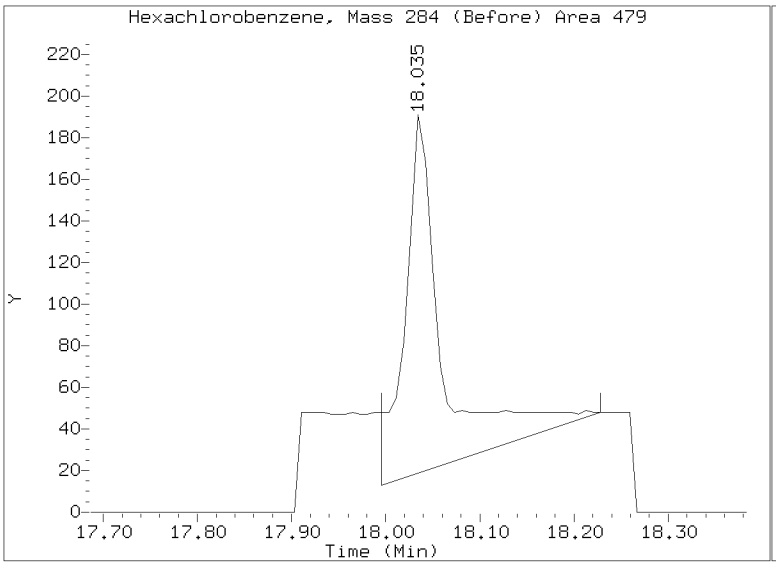
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

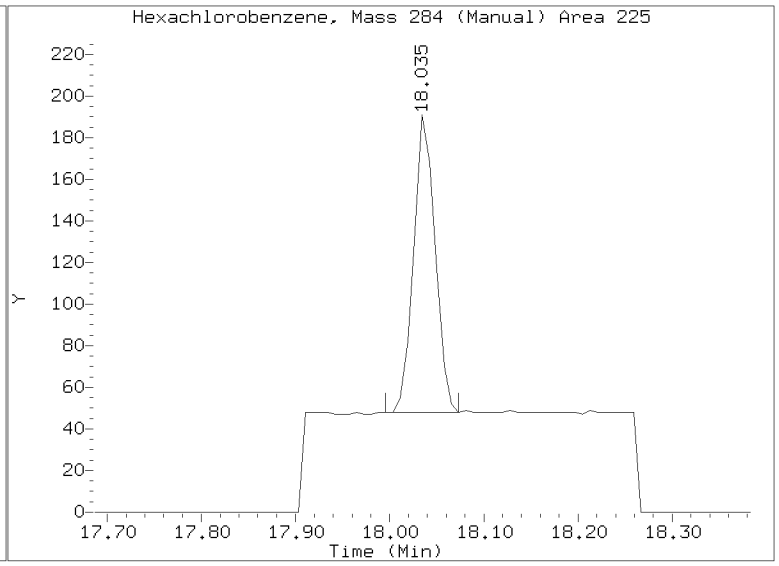
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052310S.D
Injection Date: 05-MAY-2023 16:36
Lab ID:BLD0329-SRM2 Client ID:
Report Date: 05/31/2023 14:31





Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

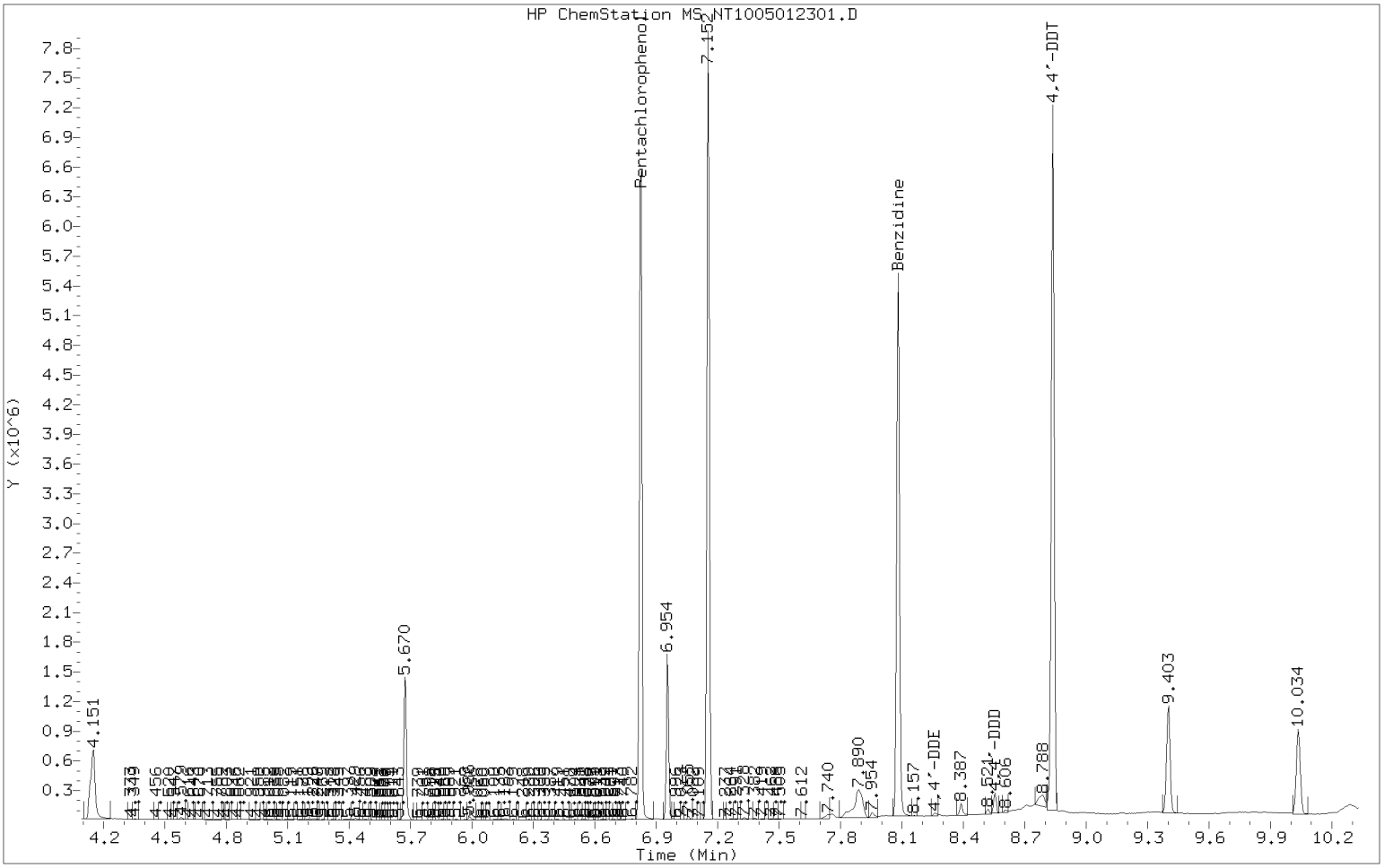
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT1005012301S.D	Injection Date:	05/01/23
Instrument ID:	NT10	Injection Time:	14:35
Sequence:	SLE0082	Lab Sample ID:	SLE0082-TUN1

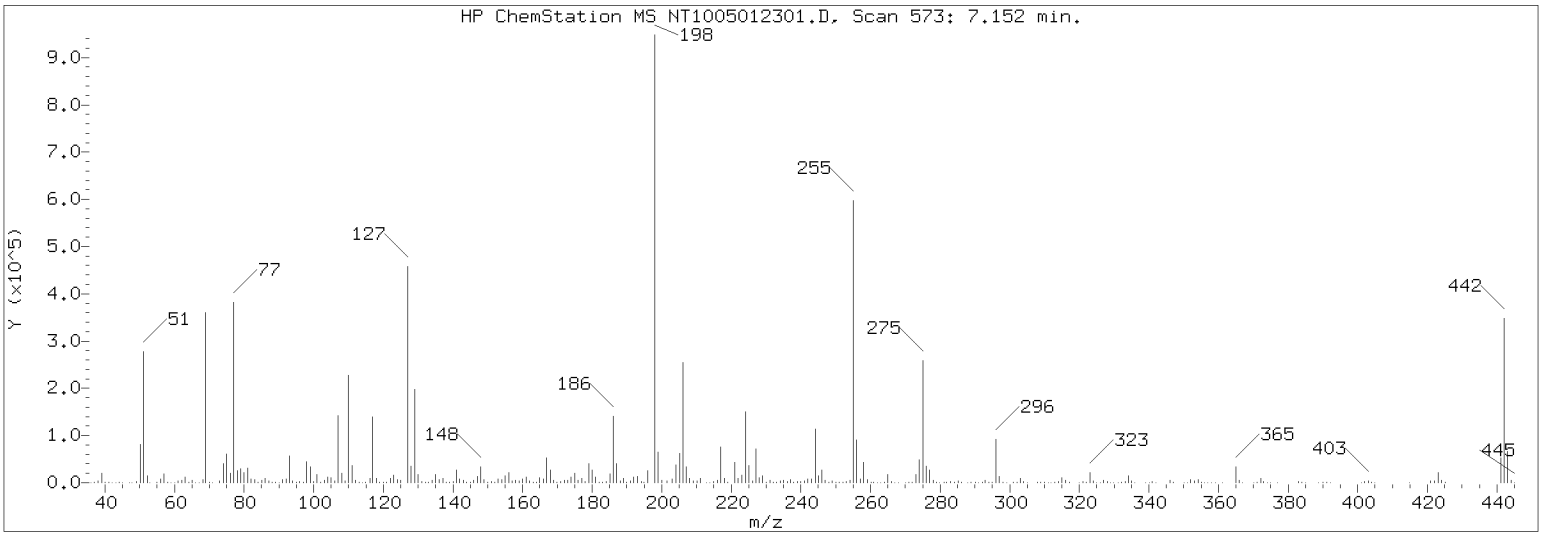
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.96	PASS
69	Less than 100% of 198	36.9	PASS
70	Less than 2% of 69	0.547	PASS
197	Less than 2% of 198	0.109	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.93	PASS
365	1 - 100% of 198	4.09	PASS
441	Less than 150% of 443	80.2	PASS
442	1 - 200% of 198	47.5	PASS
443	15 - 24% of 442	18.5	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLE0082-TUN1	NT1005012301S.D	05/01/2023	14:35
Cal Standard	SLE0082-CAL8	NT1005012303S.D	05/01/2023	15:31
Cal Standard	SLE0082-CAL7	NT1005012304S.D	05/01/2023	16:10
Cal Standard	SLE0082-CAL6	NT1005012305S.D	05/01/2023	16:49
Cal Standard	SLE0082-CAL5	NT1005012306S.D	05/01/2023	17:28
Cal Standard	SLE0082-CAL4	NT1005012307S.D	05/01/2023	18:07
Cal Standard	SLE0082-CAL3	NT1005012308S.D	05/01/2023	18:46
Cal Standard	SLE0082-CAL2	NT1005012309S.D	05/01/2023	19:25
Cal Standard	SLE0082-CAL1	NT1005012310S.D	05/01/2023	20:04
Secondary Cal Check	SLE0082-SCV1	NT1005012311S.D	05/01/2023	20:43
Initial Cal Blank	SLE0082-ICB1	NT1005012312S.D	05/01/2023	21:22

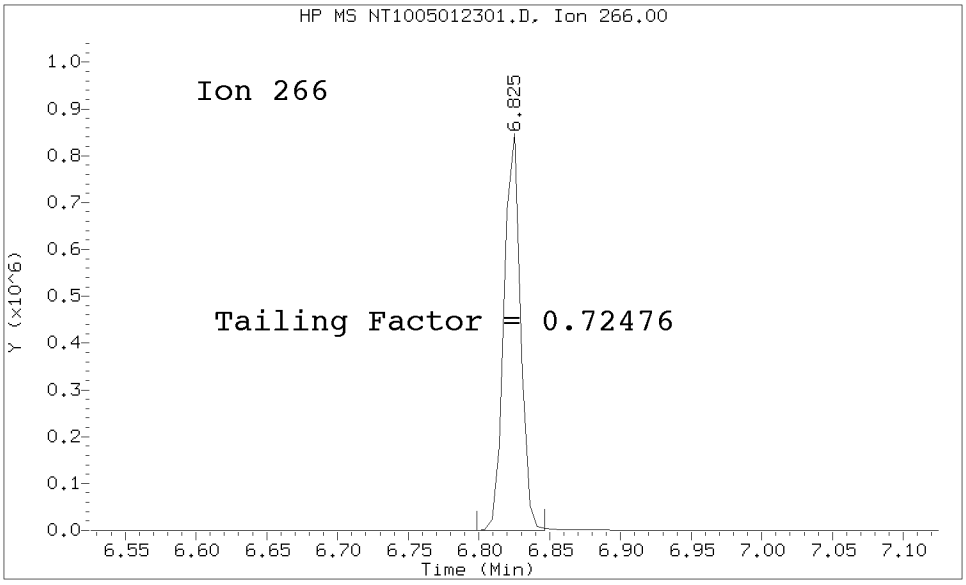
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SLE0082-TUN1 SLE0082-TUN1
Report Date: 05/05/2023 12:10



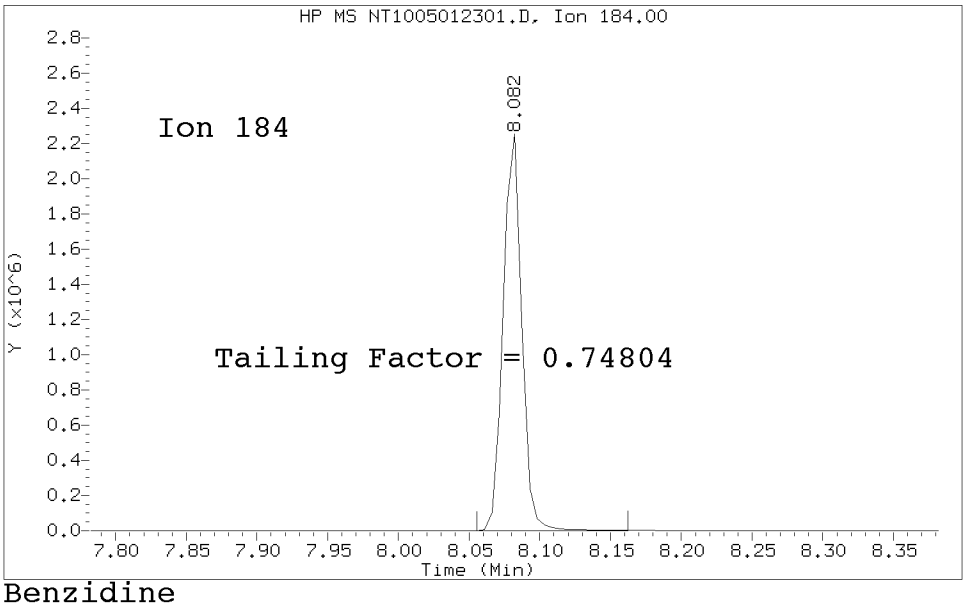


Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 05/05/2023 12:10



Pentachlorophenol
==========
 Exp. RT = 6.825
Found RT = 6.825

Tail Factor = 0.725 Maximum Allowed = 2.0



Benzidine
=========
 Exp. RT = 8.082
Found RT = 8.082

Tail Factor = 0.748 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7247596	2.000	PASS
Benzidine	0.7480403	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1164719			N/A
4,4-DDE	2926	0.3	20.0	PASS
4,4-DDD	33911	2.8	20.0	PASS
4,4-DDD + DDE	36837	3.1	20.0	PASS

Tuning Sample, nt10.i/20230501.b/NT1005012301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.72 (1.96)
69	Mass 69 relative abundance	36.88
70	Less than 2.00% of mass 69	0.20 (0.55)
197	Less than 2.00% of mass 198	0.11
199	5.00 - 9.00% of mass 198	6.93
365	1.00 - 100.00% of mass 198	4.09
441	Less than 150.00% of mass 443	7.03 (80.18)
442	Less than 200.00% of mass 198	47.49
443	15.00 - 24.00% of mass 442	8.77 (18.47)

Data File: NT1005012301S.D
Spectrum: Avg. Scans 572-574 (7.15), Background Scan 568
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	266	125.00	4346	212.00	234	301.00	794
37.00	1062	127.00	328512	213.00	499	302.00	1186
38.00	3056	128.00	24936	214.00	141	303.00	6845
39.00	14282	129.00	141504	215.00	2444	304.00	2076
40.00	661	130.00	12474	216.00	4556	305.00	403
41.00	397	131.00	2350	217.00	56176	308.00	947
42.00	221	132.00	1148	218.00	7190	309.00	634
43.00	80	133.00	478	219.00	698	310.00	860
44.00	92	134.00	4546	221.00	32104	311.00	269
45.00	530	135.00	11767	222.00	7235	312.00	310
47.00	208	136.00	4896	223.00	12138	313.00	707
48.00	116	137.00	6769	224.00	109928	314.00	2821
49.00	1662	138.00	1154	225.00	27736	315.00	8040
50.00	56312	139.00	780	226.00	3167	316.00	3993
51.00	192128	140.00	1727	227.00	54120	317.00	727
52.00	10009	141.00	19408	228.00	7820	319.00	76
53.00	358	142.00	5867	229.00	10633	320.00	151
55.00	1147	143.00	4287	230.00	1375	321.00	1907
56.00	6312	144.00	1130	231.00	3934	322.00	960
57.00	13026	145.00	910	232.00	656	323.00	17032
58.00	607	146.00	3437	233.00	991	324.00	3069
59.00	29	147.00	9663	234.00	3296	325.00	361
60.00	264	148.00	25112	235.00	3662	326.00	468
61.00	2852	149.00	5052	236.00	2488	327.00	4017
62.00	3614	150.00	1356	237.00	4890	328.00	1906
63.00	9148	151.00	2266	238.00	672	329.00	512
64.00	1235	152.00	1579	239.00	2237	330.00	120
65.00	4193	153.00	5832	240.00	1719	331.00	144
66.00	314	154.00	4463	241.00	2944	332.00	1493
67.00	446	155.00	10445	242.00	6490	333.00	1743
68.00	4951	156.00	15957	243.00	6227	334.00	11676
69.00	253056	157.00	2760	244.00	84584	335.00	2870
70.00	1385	158.00	3689	245.00	11413	336.00	350
71.00	272	159.00	2681	246.00	20384	339.00	198
73.00	2332	160.00	5980	247.00	4089	340.00	264
74.00	27976	161.00	9017	248.00	961	341.00	2132
75.00	42480	162.00	2681	249.00	2961	342.00	576
76.00	14168	163.00	992	250.00	651	346.00	4092
77.00	268224	164.00	986	251.00	842	347.00	762
78.00	18296	165.00	7696	252.00	860	350.00	110
79.00	21328	166.00	5725	253.00	2012	351.00	381
80.00	15604	167.00	38888	254.00	2343	352.00	5467
81.00	22424	168.00	19968	255.00	444992	353.00	3275
82.00	5265	169.00	3411	256.00	66248	354.00	5320
83.00	4677	170.00	1231	257.00	5829	355.00	1023
84.00	283	171.00	1591	258.00	33176	356.00	112
85.00	3741	172.00	3396	259.00	5397	357.00	124
86.00	6850	173.00	4390	260.00	852	358.00	174
87.00	2927	174.00	8520	261.00	736	359.00	318

88.00	1120	175.00	14893	262.00	111	361.00	131
89.00	591	176.00	3790	263.00	324	365.00	28088
90.00	101	177.00	7147	264.00	910	366.00	3777
91.00	5081	178.00	2450	265.00	12966	367.00	231
92.00	6151	179.00	29704	266.00	1919	370.00	495
93.00	40032	180.00	19936	267.00	184	371.00	1202
94.00	2667	181.00	8798	268.00	259	372.00	8009
95.00	587	182.00	1417	269.00	62	373.00	2002
96.00	1638	183.00	747	270.00	543	374.00	191
97.00	812	184.00	2226	271.00	976	375.00	50
98.00	31360	185.00	13981	272.00	1325	377.00	228
99.00	23592	186.00	102448	273.00	13189	383.00	2046
100.00	1856	187.00	29664	274.00	36512	384.00	449
101.00	12405	188.00	3546	275.00	194176	385.00	208
102.00	722	189.00	7144	276.00	25528	389.00	145
103.00	4260	190.00	1294	277.00	20736	390.00	1030
104.00	8414	191.00	3257	278.00	3713	391.00	705
105.00	7720	192.00	9275	279.00	791	392.00	459
106.00	2783	193.00	10621	280.00	54	395.00	59
107.00	100768	194.00	2025	281.00	351	401.00	403
108.00	14716	195.00	942	282.00	427	402.00	2822
109.00	3117	196.00	18840	283.00	2267	403.00	4000
110.00	161152	197.00	746	284.00	1368	404.00	1422
111.00	26016	198.00	686208	285.00	3442	405.00	290
112.00	3385	199.00	47528	286.00	615	410.00	95
113.00	1238	200.00	3588	288.00	189	415.00	166
114.00	319	201.00	2743	289.00	808	421.00	2808
115.00	590	202.00	87	290.00	702	422.00	2710
116.00	6423	203.00	5944	291.00	490	423.00	19704
117.00	102240	204.00	28184	292.00	872	424.00	5181
118.00	7245	205.00	46720	293.00	4158	425.00	574
119.00	721	206.00	185280	294.00	948	441.00	48248
120.00	1273	207.00	24280	295.00	1174	442.00	325888
121.00	749	208.00	7426	296.00	70416	443.00	60176
122.00	7214	209.00	2446	297.00	10070	444.00	5503
123.00	11141	210.00	3305	298.00	690	445.00	283
124.00	5150	211.00	7375	299.00	220		

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00018	Instrument:	NT10
Calibration Date:	05/04/2023	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
1,4-Dichlorobenzene	0.05	1.62156	0.1	1.691842	0.2	1.608422	0.5	1.600861	1	1.56058	2.5	1.550049
1,2-Dichlorobenzene	0.05	1.586933	0.1	1.558451	0.2	1.550896	0.5	1.550398	1	1.524191	2.5	1.502128
Benzyl Alcohol	0.05	0.9199016	0.1	0.9166924	0.2	0.9650531	0.5	1.027099	1	1.09923	2.5	1.148426
Benzoic acid	0.2	3.817026E-02	0.4	5.377305E-02	0.8	0.1059193	2	0.1687884	4	0.2285704	10	0.2681328
2,4-Dimethylphenol	0.1	0.3452748	0.2	0.3603042	0.4	0.387202	1	0.4097114	2	0.4172466	5	0.4243033
1,2,4-Trichlorobenzene	0.05	0.4355552	0.1	0.4143251	0.2	0.4122797	0.5	0.4055396	1	0.3998427	2.5	0.4005295
N-Nitrosodiphenylamine	0.05	0.4745207	0.1	0.4873142	0.2	0.519888	0.5	0.5390913	1	0.5540406	2.5	0.5333333
Pentachlorophenol	0.1	8.720474E-02	0.2	9.178048E-02	0.4	0.0906988	1	0.1106036	2	0.1358821	5	0.1544184
2-Fluorophenol	0.075	1.082559	0.15	1.140575	0.3	1.193239	0.75	1.236937	1.5	1.260374	3.75	1.2845
p-Terphenyl-d14	0.05	0.7405004	0.1	0.7713356	0.2	0.8077524	0.5	0.8395384	1	0.9000023	2.5	0.9125655

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00018	Instrument:	NT10
Calibration Date:	05/04/2023	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
1,4-Dichlorobenzene	5	1.509975	10	1.575331								
1,2-Dichlorobenzene	5	1.450707	10	1.50943								
Benzyl Alcohol	5	1.14812	10	1.219659								
Benzoic acid	20	0.2857484	40	0.3186251								
2,4-Dimethylphenol	10	0.4071982	20	0.4283315								
1,2,4-Trichlorobenzene	5	0.3866294	10	0.4073714								
N-Nitrosodiphenylamine	5	0.5302271	10	0.534835								
Pentachlorophenol	10	0.1722223	20	0.1934588								
2-Fluorophenol	7.5	1.245808	15	1.303956								
p-Terphenyl-d14	5	0.9434623	10	0.9848797								

INITIAL CALIBRATION DATA

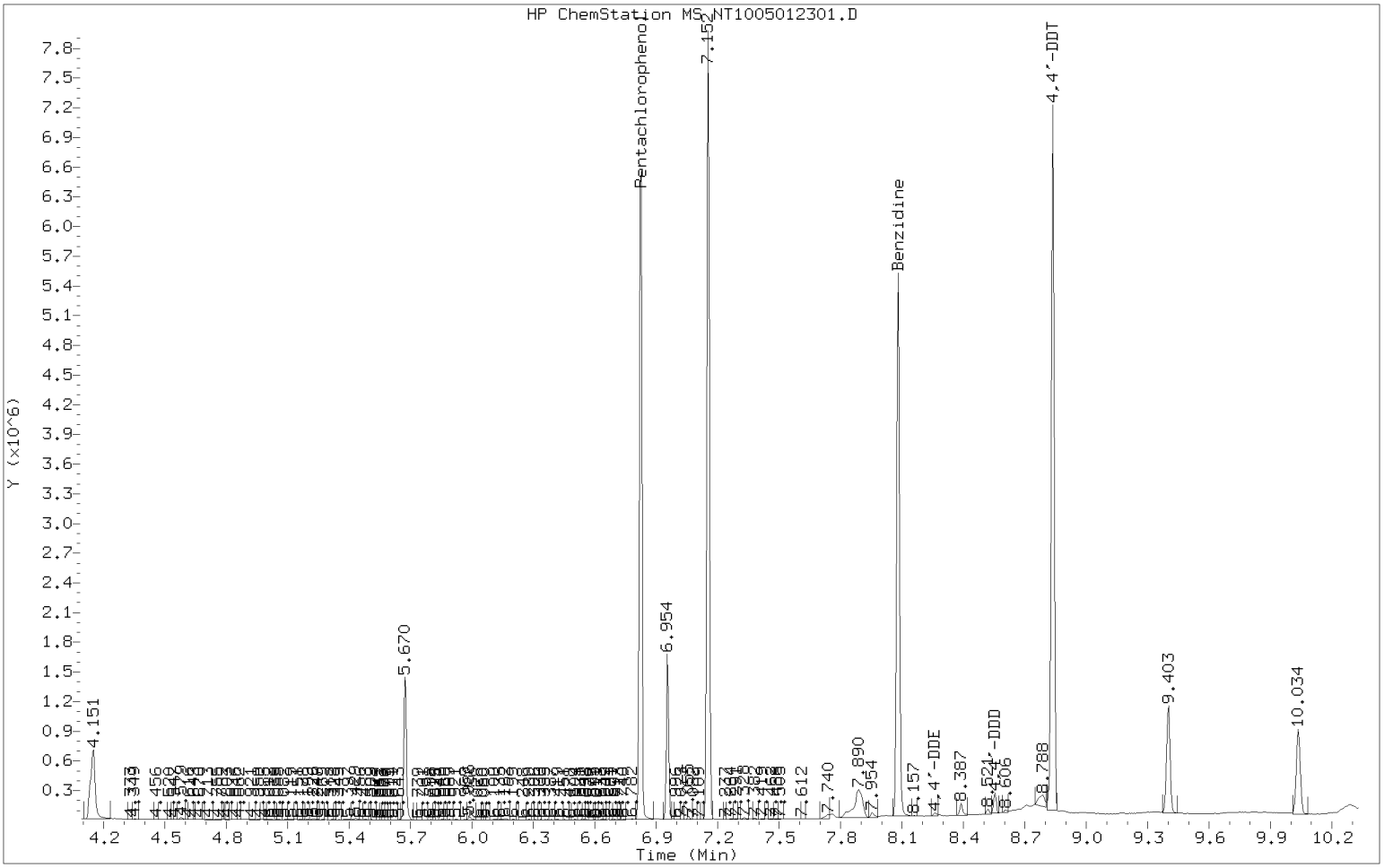
EPA 8270E-SIM

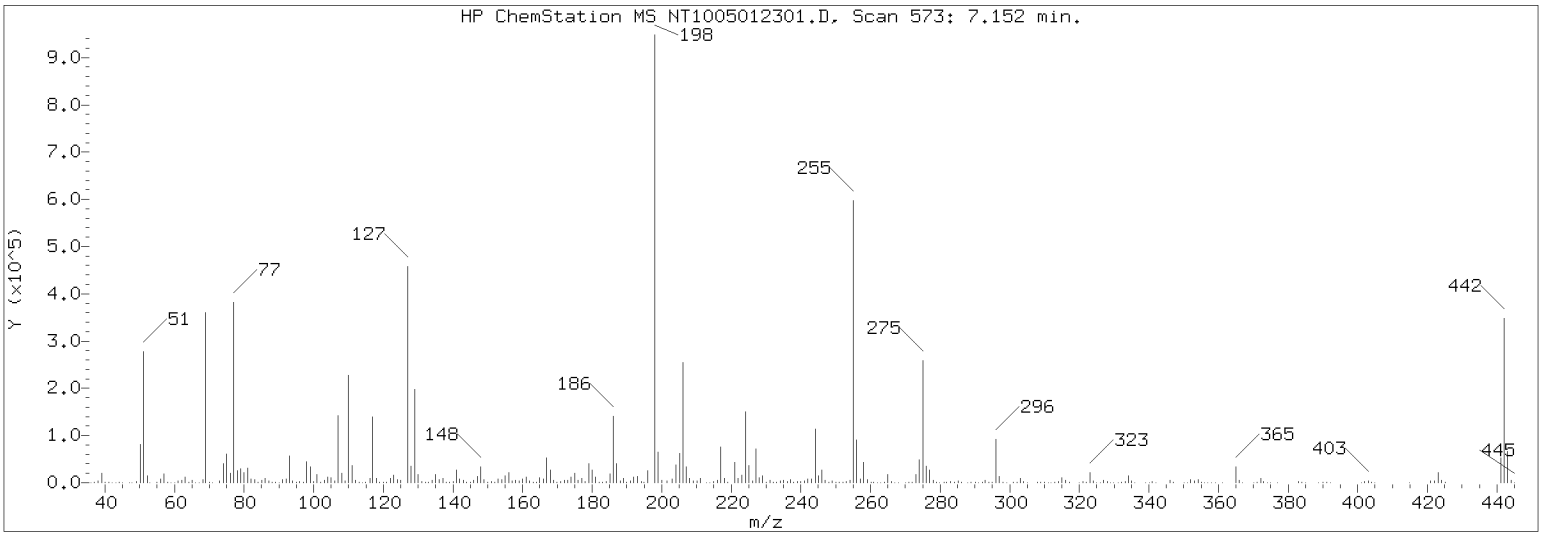
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00018	Instrument:	NT10
Calibration Date:	05/04/2023	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
1,4-Dichlorobenzene	1.589827	3.4			RSD (15)	
1,2-Dichlorobenzene	1.529142	2.8			RSD (15)	
Benzyl Alcohol	1.055523	10.9			RSD (15)	
Benzoic acid	0.183466	59.0		0.9992	QCOD (0.99)	
2,4-Dimethylphenol	0.3974465	7.7			RSD (15)	
1,2,4-Trichlorobenzene	0.4077591	3.5			RSD (15)	
N-Nitrosodiphenylamine	0.5216563	5.2			RSD (15)	
Pentachlorophenol	0.1295337	31.5		0.9993	QCOD (0.99)	
2-Fluorophenol	1.218494	6.2			RSD (15)	
p-Terphenyl-d14	0.8625046	10.0			RSD (15)	

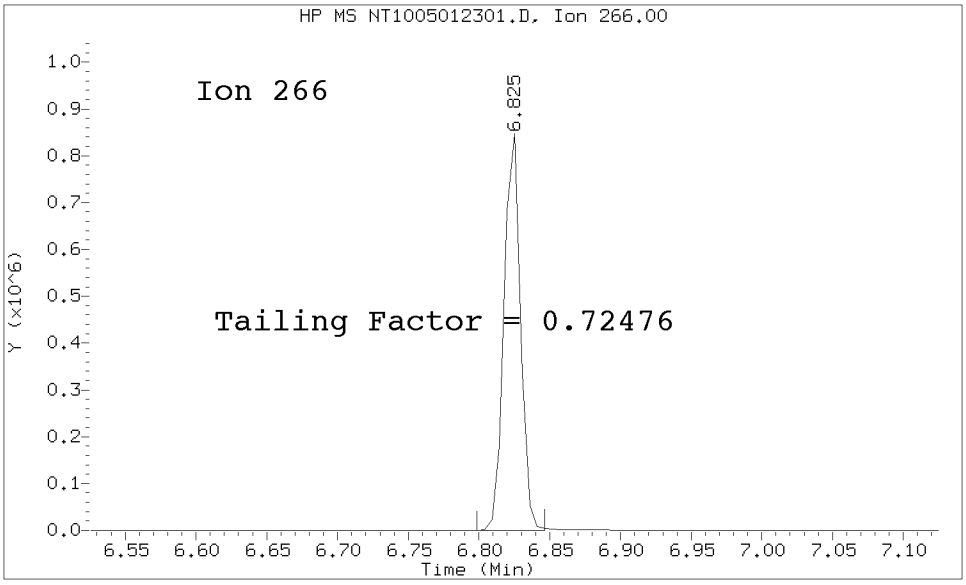
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SLE0082-TUN1 SLE0082-TUN1
Report Date: 05/10/2023 13:03



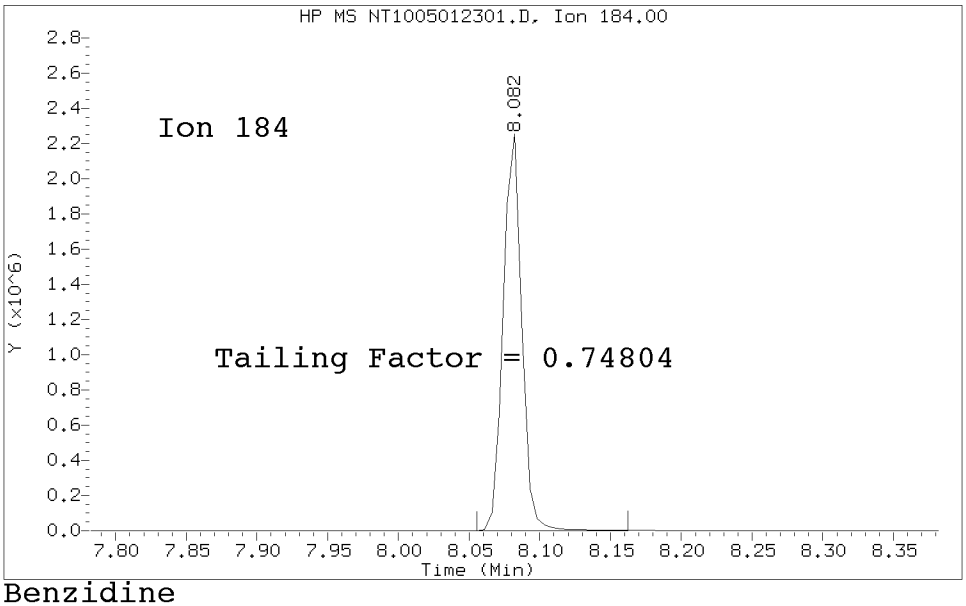


Datafile Analyzed: /20230501.b/NT1005012301.D/NT1005012301.D
Method Used: \20230501.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 01-MAY-2023 14:35 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 05/10/2023 13:03



Pentachlorophenol
==========
 Exp. RT = 6.825
Found RT = 6.825

Tail Factor = 0.725 Maximum Allowed = 2.0



Benzidine
==========
 Exp. RT = 8.082
Found RT = 8.082

Tail Factor = 0.748 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.7247596	2.000	PASS
Benzidine	0.7480403	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1164719			N/A
4,4-DDE	2926	0.3	20.0	PASS
4,4-DDD	33911	2.8	20.0	PASS
4,4-DDD + DDE	36837	3.1	20.0	PASS

Tuning Sample, nt10.i/20230501.b/NT1005012301.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.72 (1.96)
69	Mass 69 relative abundance	36.88
70	Less than 2.00% of mass 69	0.20 (0.55)
197	Less than 2.00% of mass 198	0.11
199	5.00 - 9.00% of mass 198	6.93
365	1.00 - 100.00% of mass 198	4.09
441	Less than 150.00% of mass 443	7.03 (80.18)
442	Less than 200.00% of mass 198	47.49
443	15.00 - 24.00% of mass 442	8.77 (18.47)

Data File: NT1005012301.D
Spectrum: Avg. Scans 572-574 (7.15), Background Scan 568
Location of Maximum: 198.00
Number of points: 343

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	266	125.00	4346	212.00	234	301.00	794
37.00	1062	127.00	328512	213.00	499	302.00	1186
38.00	3056	128.00	24936	214.00	141	303.00	6845
39.00	14282	129.00	141504	215.00	2444	304.00	2076
40.00	661	130.00	12474	216.00	4556	305.00	403
41.00	397	131.00	2350	217.00	56176	308.00	947
42.00	221	132.00	1148	218.00	7190	309.00	634
43.00	80	133.00	478	219.00	698	310.00	860
44.00	92	134.00	4546	221.00	32104	311.00	269
45.00	530	135.00	11767	222.00	7235	312.00	310
47.00	208	136.00	4896	223.00	12138	313.00	707
48.00	116	137.00	6769	224.00	109928	314.00	2821
49.00	1662	138.00	1154	225.00	27736	315.00	8040
50.00	56312	139.00	780	226.00	3167	316.00	3993
51.00	192128	140.00	1727	227.00	54120	317.00	727
52.00	10009	141.00	19408	228.00	7820	319.00	76
53.00	358	142.00	5867	229.00	10633	320.00	151
55.00	1147	143.00	4287	230.00	1375	321.00	1907
56.00	6312	144.00	1130	231.00	3934	322.00	960
57.00	13026	145.00	910	232.00	656	323.00	17032
58.00	607	146.00	3437	233.00	991	324.00	3069
59.00	29	147.00	9663	234.00	3296	325.00	361
60.00	264	148.00	25112	235.00	3662	326.00	468
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65.00	4193	153.00	5832	240.00	1719	331.00	144
66.00	314	154.00	4463	241.00	2944	332.00	1493
67.00	446	155.00	10445	242.00	6490	333.00	1743
68.00	4951	156.00	15957	243.00	6227	334.00	11676
69.00	253056	157.00	2760	244.00	84584	335.00	2870
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74.00	27976	161.00	9017	248.00	961	341.00	2132
75.00	42480	162.00	2681	249.00	2961	342.00	576
76.00	14168	163.00	992	250.00	651	346.00	4092
77.00	268224	164.00	986	251.00	842	347.00	762
78.00	18296	165.00	7696	252.00	860	350.00	110
79.00	21328	166.00	5725	253.00	2012	351.00	381
80.00	15604	167.00	38888	254.00	2343	352.00	5467
81.00	22424	168.00	19968	255.00	444992	353.00	3275
82.00	5265	169.00	3411	256.00	66248	354.00	5320
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85.00	3741	172.00	3396	259.00	5397	357.00	124
86.00	6850	173.00	4390	260.00	852	358.00	174
87.00	2927	174.00	8520	261.00	736	359.00	318

88.00	1120	175.00	14893	262.00	111	361.00	131
89.00	591	176.00	3790	263.00	324	365.00	28088
90.00	101	177.00	7147	264.00	910	366.00	3777
91.00	5081	178.00	2450	265.00	12966	367.00	231
92.00	6151	179.00	29704	266.00	1919	370.00	495
93.00	40032	180.00	19936	267.00	184	371.00	1202
94.00	2667	181.00	8798	268.00	259	372.00	8009
95.00	587	182.00	1417	269.00	62	373.00	2002
96.00	1638	183.00	747	270.00	543	374.00	191
97.00	812	184.00	2226	271.00	976	375.00	50
98.00	31360	185.00	13981	272.00	1325	377.00	228
99.00	23592	186.00	102448	273.00	13189	383.00	2046
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101.00	12405	188.00	3546	275.00	194176	385.00	208
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103.00	4260	190.00	1294	277.00	20736	390.00	1030
104.00	8414	191.00	3257	278.00	3713	391.00	705
105.00	7720	192.00	9275	279.00	791	392.00	459
106.00	2783	193.00	10621	280.00	54	395.00	59
107.00	100768	194.00	2025	281.00	351	401.00	403
108.00	14716	195.00	942	282.00	427	402.00	2822
109.00	3117	196.00	18840	283.00	2267	403.00	4000
110.00	161152	197.00	746	284.00	1368	404.00	1422
111.00	26016	198.00	686208	285.00	3442	405.00	290
112.00	3385	199.00	47528	286.00	615	410.00	95
113.00	1238	200.00	3588	288.00	189	415.00	166
114.00	319	201.00	2743	289.00	808	421.00	2808
115.00	590	202.00	87	290.00	702	422.00	2710
116.00	6423	203.00	5944	291.00	490	423.00	19704
117.00	102240	204.00	28184	292.00	872	424.00	5181
118.00	7245	205.00	46720	293.00	4158	425.00	574
119.00	721	206.00	185280	294.00	948	441.00	48248
120.00	1273	207.00	24280	295.00	1174	442.00	325888
121.00	749	208.00	7426	296.00	70416	443.00	60176
122.00	7214	209.00	2446	297.00	10070	444.00	5503
123.00	11141	210.00	3305	298.00	690	445.00	283
124.00	5150	211.00	7375	299.00	220		

Printed: 5/5/2023 12:16:03PM

ANALYSIS SEQUENCE

SLE0082

Instrument ID: NT10
Calibration ID: GE00018
MS EM Level: EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: ZB-5MSi

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0082-TUN1	MS Tune	QC		1	L002618		05/01/2023 14:35	NT1005012301S.D	JGR	
SLE0082-CAL1	ABN 0.05	QC		2	L002878	K010831	05/01/2023 20:04	NT1005012310S.D	JGR	
SLE0082-CAL2	ABN 0.1	QC		3	L002877	K010831	05/01/2023 19:25	NT1005012309S.D	JGR	
SLE0082-CAL3	ABN 0.2	QC		4	K011105	K010831	05/01/2023 18:46	NT1005012308S.D	JGR	
SLE0082-CAL4	ABN 0.5	QC		5	K011106	K010831	05/01/2023 18:07	NT1005012307S.D	JGR	
SLE0082-CAL5	ABN 1.0	QC		6	K011107	K010831	05/01/2023 17:28	NT1005012306S.D	JGR	
SLE0082-CAL6	ABN 2.5	QC		7	K011108	K010831	05/01/2023 16:49	NT1005012305S.D	JGR	
SLE0082-CAL7	ABN 5.0	QC		8	K011109	K010831	05/01/2023 16:10	NT1005012304S.D	JGR	
SLE0082-CAL8	ABN 10.0	QC		9	K011110	K010831	05/01/2023 15:31	NT1005012303S.D	JGR	
SLE0082-SCV1	SCV 5.0	QC		10	K010066	K010831	05/01/2023 20:43	NT1005012311S.D	JGR	
SLE0082-ICB1	Initial Cal Blank	QC		11	K005156	K010831	05/01/2023 21:22	NT1005012312S.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b\20230501.b

	Time	Filename	LabID	ClientId	DF											
1	1435	NT1005012301S.D	SLE0082-TUN1		1	|NO ISTDS FOUND||										
2	1531	NT1005012303S.D	SLE0082-CAL8		1	| 9.49	161514||12.00	570419||15.63	292457||18.68	621963||23.71	460111||26.55	359500|				
3	1610	NT1005012304S.D	SLE0082-CAL7		1	| 9.49	152136||12.00	537687||15.63	277062||18.68	559131||23.71	409150||26.56	347622|				
4	1649	NT1005012305S.D	SLE0082-CAL6		1	| 9.49	149844||11.99	519732||15.63	272727||18.68	563850||23.70	418693||26.55	365369|				
5	1728	NT1005012306S.D	SLE0082-CAL5		1	| 9.50	169173||11.99	594924||15.63	304980||18.68	609190||23.70	479061||26.54	427162|				
6	1807	NT1005012307S.D	SLE0082-CAL4		1	| 9.49	154252||11.99	543651||15.63	277425||18.68	552604||23.69	436983||26.53	398475|				
7	1846	NT1005012308S.D	SLE0082-CAL3		1	| 9.49	173835||11.99	608907||15.62	304177||18.67	596590||23.69	484703||26.53	440507|				
8	1925	NT1005012309S.D	SLE0082-CAL2		1	| 9.49	161930||11.99	564967||15.62	276925||18.67	537805||23.68	433067||26.52	402089|				
9	2004	NT1005012310S.D	SLE0082-CAL1		1	| 9.49	175584||11.99	608327||15.62	297084||18.68	579785||23.69	462282||26.53	432429|				
10	2043	NT1005012311S.D	SLE0082-SCV1		1	| 9.49	142531||11.99	510045||15.62	263993||18.68	506239||23.70	402889||26.53	365734|				
11	2122	NT1005012312S.D	SLE0082-ICB1		1	| 9.49	165323||11.99	600558||15.62	293573||18.68	566241||23.70	440951||26.54	417631|				

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b\20230501.b

ARI Job No.: SLE0 Method: DFTPP8270E.m Instrument: nt10.i Date: 01-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1435	NT1005012301S.D	SLE0082-TUN1		1	NO MANUAL INTEGRATION
1531	NT1005012303S.D	SLE0082-CAL8		1	NO MANUAL INTEGRATION
1610	NT1005012304S.D	SLE0082-CAL7		1	NO MANUAL INTEGRATION
1649	NT1005012305S.D	SLE0082-CAL6		1	NO MANUAL INTEGRATION
1728	NT1005012306S.D	SLE0082-CAL5		1	NO MANUAL INTEGRATION
1807	NT1005012307S.D	SLE0082-CAL4		1	NO MANUAL INTEGRATION
1846	NT1005012308S.D	SLE0082-CAL3		1	NO MANUAL INTEGRATION
1925	NT1005012309S.D	SLE0082-CAL2		1	NO MANUAL INTEGRATION
2004	NT1005012310S.D	SLE0082-CAL1		1	NO MANUAL INTEGRATION
2043	NT1005012311S.D	SLE0082-SCV1		1	NO MANUAL INTEGRATION
2122	NT1005012312S.D	SLE0082-ICB1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-May-2023 15:30

NT1005012301S.D	Data Locked	deenayd, 04-
NT1005012302S.D	Data Locked	deenayd, 04-
NT1005012303S.D	Data Locked	deenayd, 04-
NT1005012304S.D	Data Locked	deenayd, 04-
NT1005012305S.D	Data Locked	deenayd, 04-
NT1005012306S.D	Data Locked	deenayd, 04-
NT1005012307S.D	Data Locked	deenayd, 04-
NT1005012308S.D	Data Locked	deenayd, 04-
NT1005012309S.D	Data Locked	deenayd, 04-
NT1005012310S.D	Data Locked	deenayd, 04-
NT1005012311S.D	Data Locked	deenayd, 04-
NT1005012312S.D	Data Locked	deenayd, 04-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 15:31
End Cal Date : 01-MAY-2023 20:04
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Last Edit : 04-May-2023 13:53 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012310S.D
Level 2: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012309S.D
Level 3: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012308S.D
Level 4: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012307S.D
Level 5: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012306S.D
Level 6: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012305S.D
Level 7: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012304S.D
Level 8: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012303S.D

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
138 Chlorobenzilate	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
139 Isodrin	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
140 Diallate A	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
141 Diallate B	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
142 1,2-Dibromo-3-Chloropropane	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
135 2,3,5,6-Tetrachlorophenol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
136 2,3,4,5-tetrachlorophenol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
137 NewCpnd_131	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
133 Butylatedhydroxytoluene	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
132 3,6-Dimethylphenanthrene	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
144 alpha-Terpineol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
125 Safrole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
124 3,4-Dimethylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
123 Acetophenone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
122 Furfuraldehyde	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
143 1,4-Dioxane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000
121 Quinoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
111 Azobenzene (1,2-DP-Hydrazine)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
107 4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
106 Guaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
105 1-methylnaphthalene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
3 Phenol	1.45025	1.45544	1.53720	1.56020	1.56760	1.56347					
	1.50977	1.56662					AVRG		1.52632		3.23437
4 Bis(2-Chloroethyl)ether	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
6 2-Chlorophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
7 1,3-Dichlorobenzene	1.66074	1.65849	1.64397	1.62757	1.59262	1.56804					
	1.52352	1.56671					AVRG		1.60521		3.12570
9 1,4-Dichlorobenzene	1.62156	1.69184	1.60842	1.60086	1.56058	1.55005					
	1.50998	1.57533					AVRG		1.58983		3.43742

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
11 Benzyl alcohol	0.91990	0.91669	0.96505	1.02710	1.09923	1.14843					
	1.14812	1.21966					AVRG		1.05552		10.90337
12 1,2-Dichlorobenzene	1.58693	1.55845	1.55090	1.55040	1.52419	1.50213					
	1.45071	1.50943					AVRG		1.52914		2.75449
13 2-Methylphenol	1.11309	1.04267	1.07320	1.15370	1.17030	1.18358					
	1.17711	1.22472					AVRG		1.14230		5.35339
14 2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
15 4-Methylphenol	1.04702	1.08837	1.13337	1.20530	1.24613	1.28343					
	1.27209	1.33279					AVRG		1.20106		8.45813
16 N-Nitroso-di-n-propylamine	0.86477	0.80282	0.81111	0.86176	0.88721	0.90317					
	0.88713	0.91495					AVRG		0.86661		4.71656
17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
22 2,4-Dimethylphenol	0.26407	0.22918	0.21726	0.21904	0.22228	0.22823					
	0.22162	0.22816					AVRG		0.22873		6.54183
23 Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
24 Benzoic acid	+++++	+++++	12899	45881	135982	348393					
	768216	1817498					QUAD	0.000e+000	3.87309	-0.23165	0.99970
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
26 1,2,4-Trichlorobenzene	0.43556	0.41433	0.41228	0.40554	0.39984	0.40053					
	0.38663	0.40737					AVRG		0.40776		3.47154
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
30 Hexachlorobutadiene	0.27143	0.25417	0.25580	0.25555	0.25653	0.26329					
	0.25576	0.27027					AVRG		0.26035		2.70582
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
39 Dimethylphthalate	1.51607	1.49066	1.45724	1.50839	1.55319	1.53496					
	1.50848	1.56149					AVRG		1.51631		2.23238
40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 15:31
End Cal Date : 01-MAY-2023 20:04
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
50 Diethylphthalate	1.48806	1.48618	1.52510	1.61707	1.68684	1.72809					
	1.70962	1.78392					AVRG		1.62811		7.14994
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
54 N-Nitrosodiphenylamine	0.47452	0.48731	0.51989	0.53909	0.55404	0.53333					
	0.53023	0.53484					AVRG		0.52166		5.19480
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
57 Hexachlorobenzene	0.26796	0.25995	0.25833	0.25610	0.25287	0.24824					
	0.24838	0.25184					AVRG		0.25546		2.59298

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
58 Pentachlorophenol	+++++ / 240737	2468 / 601621	5411	15280	41389	108836	QUAD	0.000e+000	6.54335	-1.42971	0.99965
60 Phenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
61 Anthracene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
62 Carbazole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
63 Di-n-butylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
64 Fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
65 Pyrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
67 Butylbenzylphthalate	2187	4388	11132	30054	76654	183179					
	387291	909576					QUAD	0.000e+000	1.42339	-0.08146	0.99974
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
79 Dibenzo(a,h)anthracene	1.17235	1.21008	1.25051	1.27273	1.31719	1.28288					
	1.35100	1.47259					AVRG		1.29117		7.16585
80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
90 N-Nitrosodimethylamine	0.57340	0.63040	0.66195	0.68244	0.69028	0.70488					
	0.67376	0.70070					AVRG		0.66473		6.60200
91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 1 2-Fluorophenol	1.08256	1.14058	1.19324	1.23694	1.26037	1.28450					
	1.24581	1.30396					AVRG		1.21849		6.17959
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 2 Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 5 2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 10 1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 18 Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 66 Terphenyl-d14	0.74050	0.77134	0.80775	0.83954	0.90000	0.91257					
	0.94346	0.98488					AVRG		0.86250		10.00864
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	NT1005012303S	NT1005012304S	NT1005012305S	NT1005012306S	NT1005012307S	NT1005012308S	NT1005012309S	NT1005012310S
INJ.DATE:	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023
INJ.TIME:	15:31	16:10	16:49	17:28	18:07	18:46	19:25	20:04

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.243	7.235	7.236	7.236	7.236	7.236	7.236	7.244	7.243	6.743-7.743	7.238	0.004
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	33.580	33.080-34.080	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.873	30.373-31.373	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.496	14.996-15.996	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.428	19.928-20.928	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.471	19.971-20.971	+++++	+++++
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.828	7.328-8.328	+++++	+++++
* 134 Di-n-octylphthalate-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.768	23.268-24.268	+++++	+++++
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.190	13.690-14.690	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.262	30.762-31.762	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.954	29.454-30.454	+++++	+++++
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.752	23.252-24.252	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.717	27.217-28.217	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.566	20.066-21.066	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.796	19.296-20.296	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.349	22.849-23.849	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.474	21.974-22.974	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.191	10.691-11.691	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.779	17.279-18.279	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.310	15.810-16.810	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.707	17.207-18.207	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.921	8.421-9.421	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.736	3.236-4.236	+++++	+++++
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.914	2.414-3.414	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.148	19.648-20.648	+++++	+++++
120 2,3,4,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.588	15.088-16.088	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.587	38.087-39.087	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.382	19.882-20.882	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.734	18.234-19.234	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.987	16.487-17.487	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.204	14.704-15.704	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.586	21.086-22.086	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.692	17.192-18.192	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.268	15.768-16.768	+++++	+++++
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.055	17.555-18.555	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.228	16.728-17.728	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
108	4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.517	16.017-17.017	+++++	+++++
107	4,5-Dichloro-2-Methoxy	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.803	14.303-15.303	+++++	+++++
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.843	11.343-12.343	+++++	+++++
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.927	12.427-13.427	+++++	+++++
$ 2	Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.235	7.735-8.735	+++++	+++++
3	Phenol	8.850	8.842	8.843	8.843	8.835	8.843	8.843	8.843	8.850	8.350-9.350	8.843	0.004
4	Bis(2-Chloroethyl)ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.397	7.897-8.897	+++++	+++++
$ 5	2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.490	7.990-8.990	+++++	+++++
6	2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.521	8.021-9.021	+++++	+++++
7	1,3-Dichlorobenzene	9.430	9.430	9.430	9.430	9.430	9.430	9.430	9.430	9.430	8.930-9.930	9.430	0.000
* 8	1,4-Dichlorobenzene-d4	9.492	9.492	9.492	9.500	9.492	9.492	9.492	9.492	9.492	8.992-9.992	9.493	0.003
9	1,4-Dichlorobenzene	9.523	9.523	9.523	9.523	9.523	9.523	9.523	9.523	9.523	9.023-10.023	9.523	0.000
$ 10	1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.500	9.000-10.000	+++++	+++++
11	Benzyl alcohol	9.756	9.756	9.748	9.756	9.748	9.748	9.756	9.756	9.756	9.256-10.256	9.753	0.004
12	1,2-Dichlorobenzene	9.888	9.880	9.880	9.880	9.880	9.880	9.880	9.880	9.888	9.388-10.388	9.881	0.003
13	2-Methylphenol	9.973	9.965	9.966	9.966	9.966	9.966	9.966	9.966	9.973	9.473-10.473	9.967	0.003
14	2,2'-oxybis(1-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.413	8.913-9.913	+++++	+++++
15	4-Methylphenol	10.237	10.237	10.238	10.230	10.230	10.230	10.230	10.238	10.237	9.737-10.737	10.234	0.004
16	N-Nitroso-di-n-propyla	10.323	10.315	10.315	10.315	10.307	10.307	10.307	10.315	10.323	9.823-10.823	10.313	0.005
17	Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.809	9.309-10.309	+++++	+++++
$ 18	Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.917	9.417-10.417	+++++	+++++
19	Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.948	9.448-10.448	+++++	+++++
20	Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.399	9.899-10.899	+++++	+++++
21	2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.575	10.075-11.075	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	22 2,4-Dimethylphenol	10.237	10.237	10.230	10.230	10.230	10.230	10.230	10.230	10.237	9.737-10.737	10.232	0.003
	23 Bis(2-Chloroethoxy)met	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.830	10.330-11.330	+++++	+++++
	24 Benzoic acid	11.551	11.483	11.441	11.398	11.373	11.356	11.356	11.373	11.551	11.051-12.051	11.417	0.070
	25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.033	10.533-11.533	+++++	+++++
	26 1,2,4-Trichlorobenzene	11.904	11.904	11.904	11.904	11.896	11.896	11.896	11.896	11.904	11.404-12.404	11.900	0.004
*	27 Naphthalene-d8	11.996	11.996	11.989	11.989	11.989	11.989	11.989	11.989	11.996	11.496-12.496	11.991	0.003
	28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.326	10.826-11.826	+++++	+++++
	29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.457	10.957-11.957	+++++	+++++
	30 Hexachlorobutadiene	12.390	12.390	12.390	12.390	12.383	12.383	12.383	12.383	12.390	11.890-12.890	12.387	0.004
	31 4-Chloro-3-methylpheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.432	11.932-12.932	+++++	+++++
	32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.710	12.210-13.210	+++++	+++++
	33 Hexachlorocyclopentadi	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.182	12.682-13.682	+++++	+++++
	34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.330	12.830-13.830	+++++	+++++
	35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.415	12.915-13.915	+++++	+++++
$	36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.484	12.984-13.984	+++++	+++++
	37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.686	13.186-14.186	+++++	+++++
	38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.941	13.441-14.441	+++++	+++++
	39 Dimethylphthalate	15.114	15.114	15.115	15.107	15.107	15.099	15.099	15.107	15.114	14.614-15.614	15.108	0.006
	40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.545	14.045-15.045	+++++	+++++
	41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.506	14.006-15.006	+++++	+++++
*	42 Acenaphthene-d10	15.625	15.625	15.625	15.625	15.625	15.618	15.618	15.618	15.625	15.125-16.125	15.622	0.004
	43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.785	14.285-15.285	+++++	+++++
	44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.924	14.424-15.424	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.001	14.501-15.501	+++++	+++++
	46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.248	14.748-15.748	+++++	+++++
	47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.171	14.671-15.671	+++++	+++++
	48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.302	14.802-15.802	+++++	+++++
	49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	50 Diethylphthalate	16.584	16.576	16.568	16.568	16.568	16.561	16.561	16.561	16.584	16.084-17.084	16.568	0.008
	51 4-Chlorophenyl-phenyle	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.037	15.537-16.537	+++++	+++++
	53 4,6-Dinitro-2-methylph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.145	15.645-16.645	+++++	+++++
	54 N-Nitrosodiphenylamine	16.977	16.969	16.970	16.962	16.962	16.954	16.954	16.962	16.977	16.477-17.477	16.964	0.008
$	55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.477	15.977-16.977	+++++	+++++
	56 4-Bromophenyl-phenylet	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.939	16.439-17.439	+++++	+++++
	57 Hexachlorobenzene	18.050	18.057	18.050	18.050	18.050	18.042	18.042	18.042	18.050	17.550-18.550	18.048	0.005
	58 Pentachlorophenol	18.406	18.406	18.406	18.406	18.406	18.398	18.391	18.399	18.406	17.906-18.906	18.402	0.006
*	59 Phenanthrene-d10	18.685	18.684	18.685	18.677	18.677	18.669	18.669	18.677	18.685	18.185-19.185	18.678	0.006
	60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.899	17.399-18.399	+++++	+++++
	61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.991	17.491-18.491	+++++	+++++
	62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.324	17.824-18.824	+++++	+++++
	63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.152	18.652-19.652	+++++	+++++
	64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.289	19.789-20.789	+++++	+++++
	65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.715	20.215-21.215	+++++	+++++
$	66 Terphenyl-d14	21.787	21.787	21.787	21.787	21.780	21.779	21.772	21.780	21.787	21.287-22.287	21.782	0.006
	67 Butylbenzylphthalate	22.701	22.701	22.701	22.701	22.693	22.693	22.685	22.693	22.701	22.201-23.201	22.696	0.006
	68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.875	22.375-23.375	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	69 Chrysene-d12	23.707	23.707	23.700	23.700	23.692	23.692	23.684	23.692	23.707	23.207-24.207	23.697	0.008
	70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.844	22.344-23.344	+++++	+++++
	71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.952	22.452-23.452	+++++	+++++
	72 bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.701	22.201-23.201	+++++	+++++
	73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.990	23.490-24.490	+++++	+++++
	74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.687	24.187-25.187	+++++	+++++
	75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.725	24.225-25.225	+++++	+++++
	76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.283	24.783-25.783	+++++	+++++
*	77 Perylene-d12	26.549	26.556	26.549	26.541	26.533	26.526	26.518	26.533	26.549	26.049-27.049	26.538	0.013
	78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.794	27.294-28.294	+++++	+++++
	79 Dibenzo(a,h)anthracene	29.558	29.550	29.543	29.527	29.512	29.496	29.488	29.520	29.558	29.058-30.058	29.524	0.025
	80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.494	27.994-28.994	+++++	+++++
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.238	16.738-17.738	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.316	28.816-29.816	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.007	25.507-26.507	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	44.609	44.109-45.109	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.066	15.566-16.566	+++++	+++++
	90 N-Nitrosodimethylamine	5.088	5.080	5.073	5.088	5.073	5.088	5.088	5.104	5.088	4.588-5.588	5.085	0.010
	91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.305	7.805-8.805	+++++	+++++
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.615	21.115-22.115	+++++	+++++
	93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.529	20.029-21.029	+++++	+++++
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.686	17.186-18.186	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.957	26.457-27.457	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.609	19.109-20.109	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.438	24.938-25.938	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.384	25.884-26.884	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.881	43.381-44.381	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	45.573	45.073-46.073	+++++	+++++
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.535	4.035-5.035	+++++	+++++

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Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

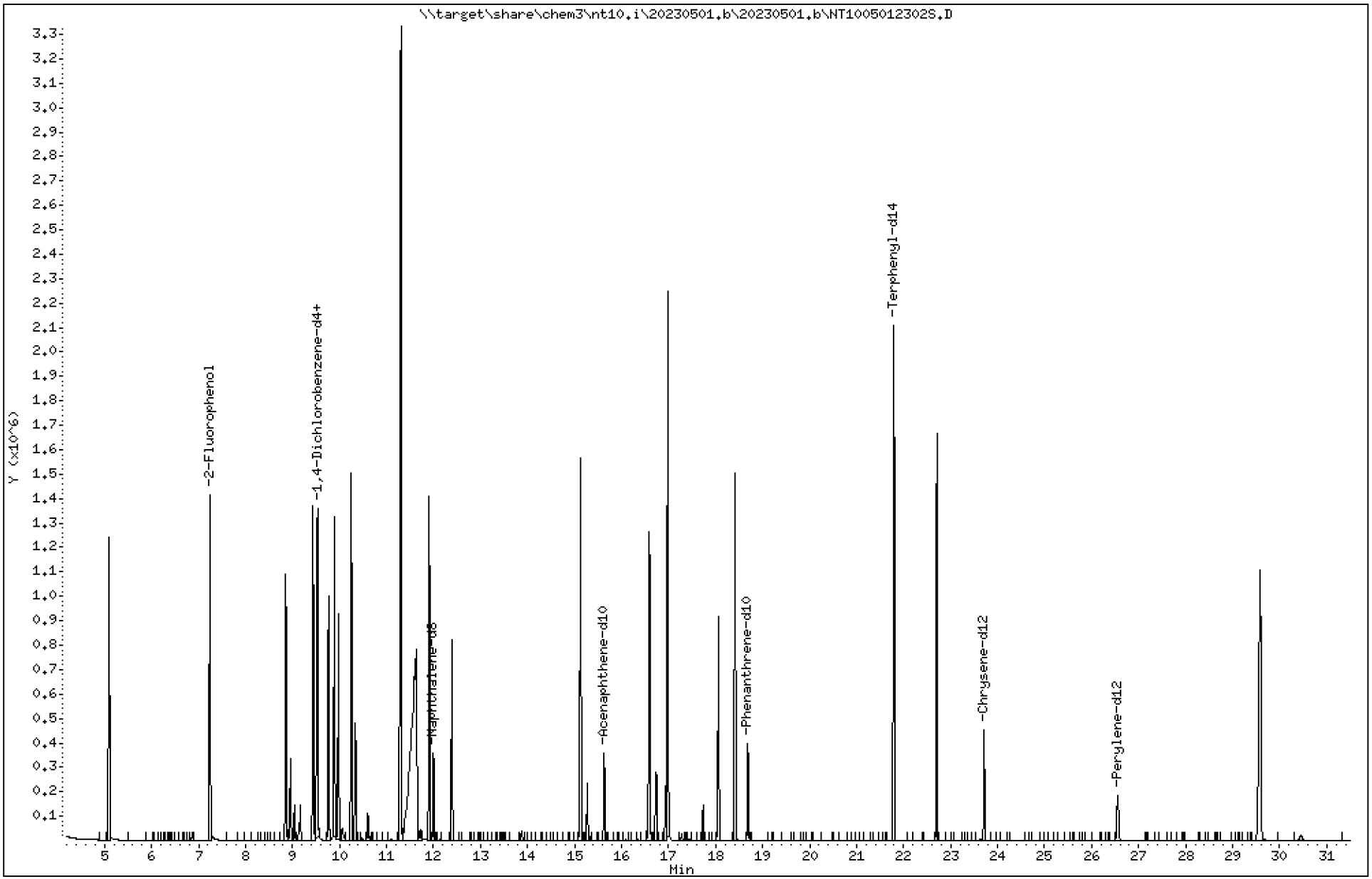
Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1735 of 4865

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Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

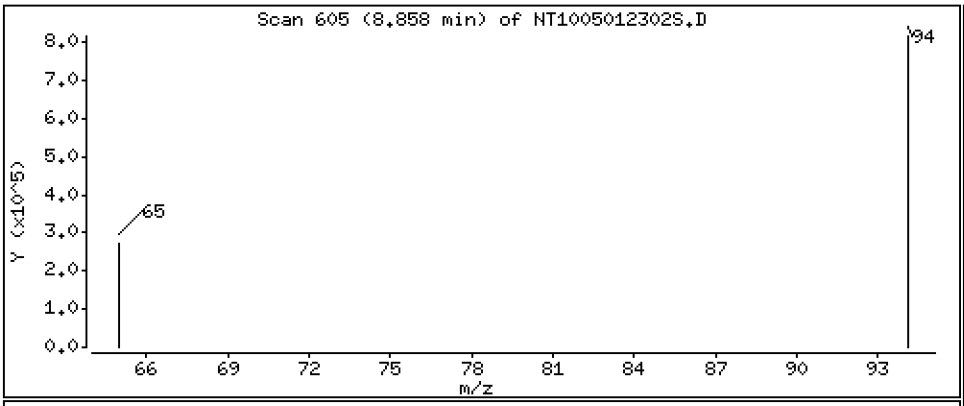
Operator: JGR

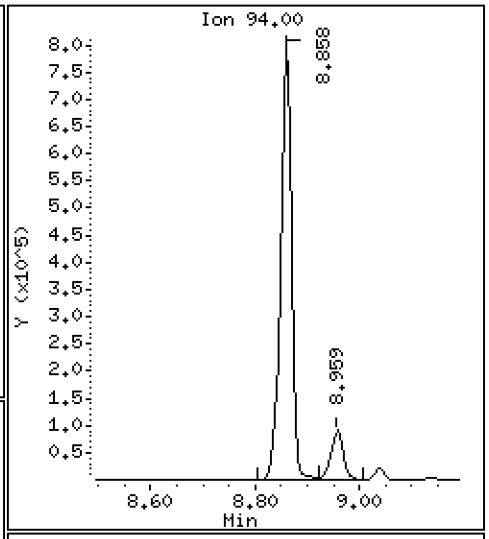
Column phase: ZB-5msi

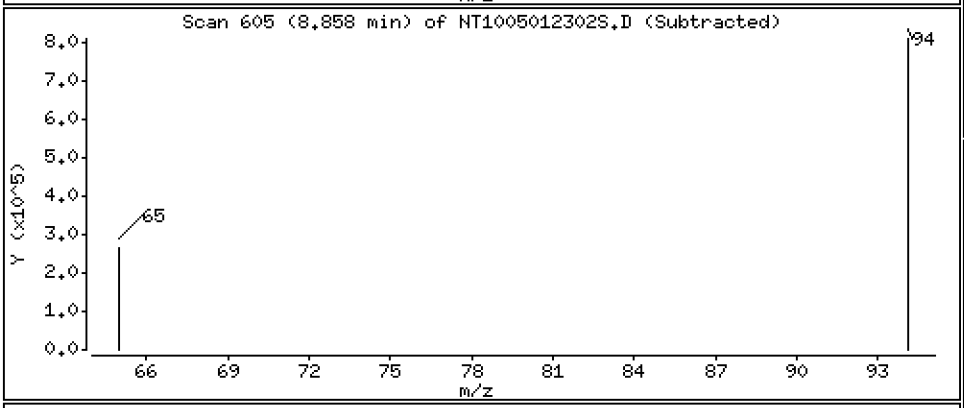
Column diameter: 0.25

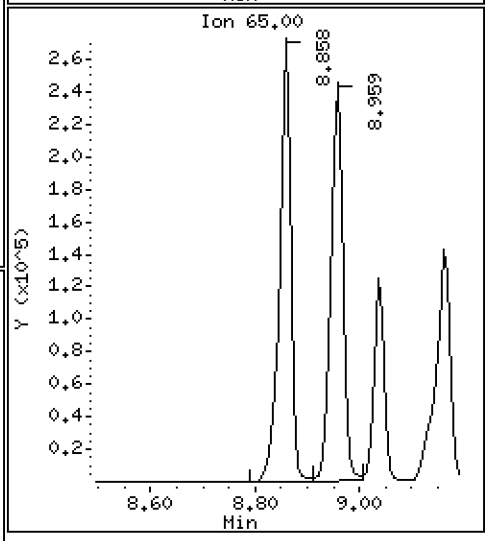
3 Phenol

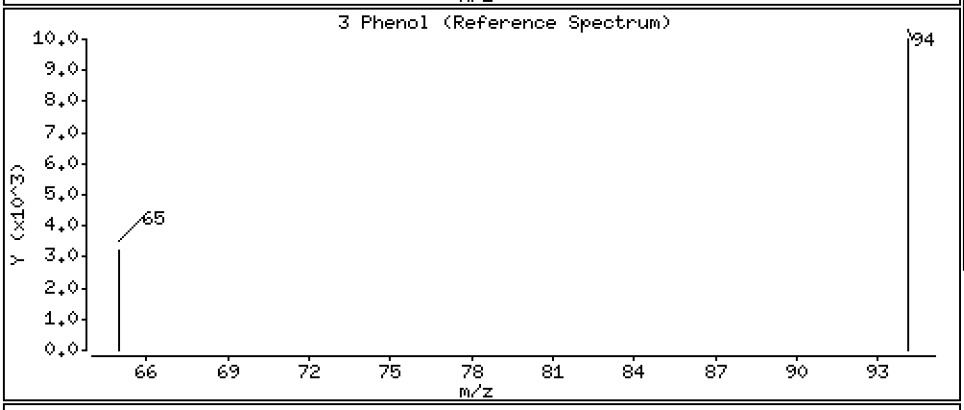
Concentration: 19.23 ug/L

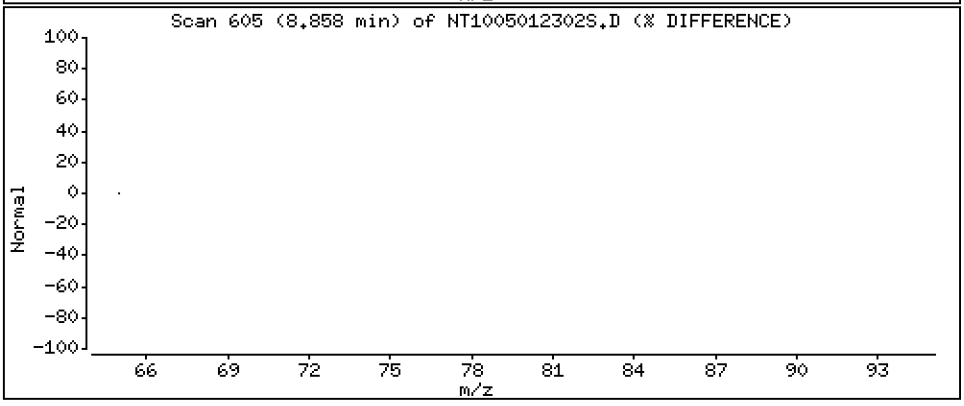












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Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

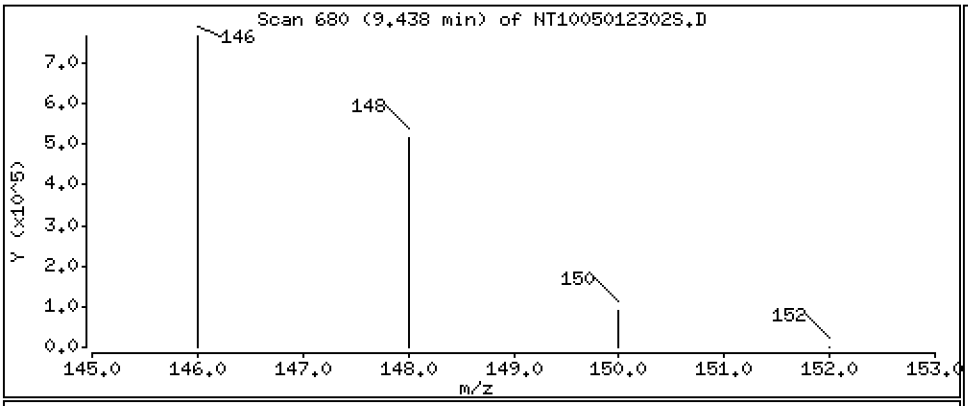
Operator: JGR

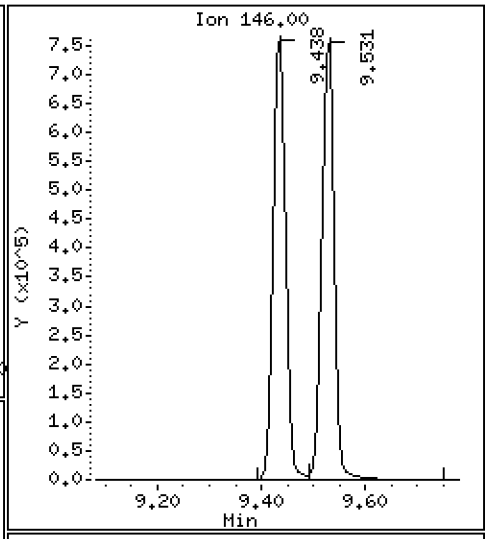
Column phase: ZB-5msi

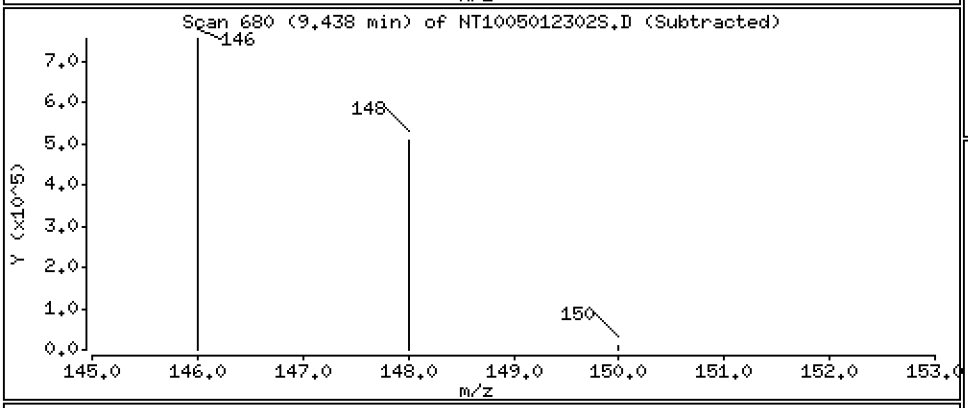
Column diameter: 0.25

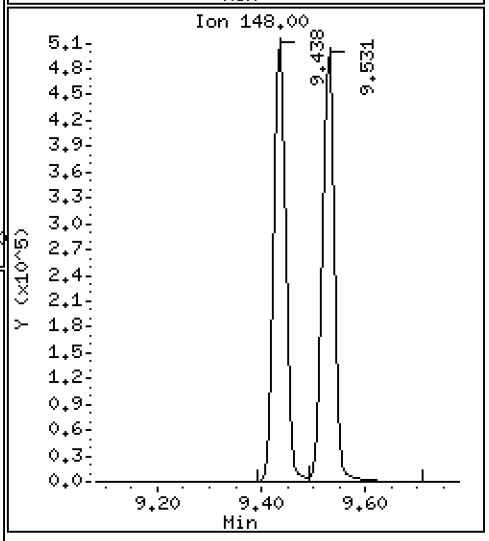
7 1,3-Dichlorobenzene

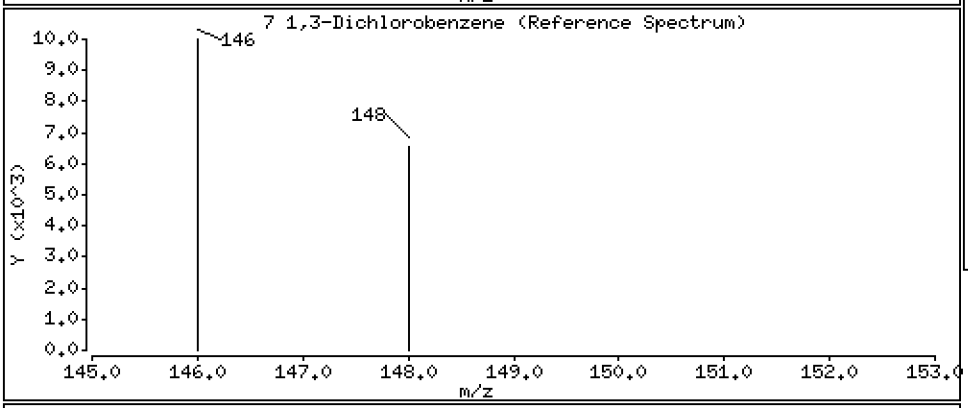
Concentration: 18.56 ug/L

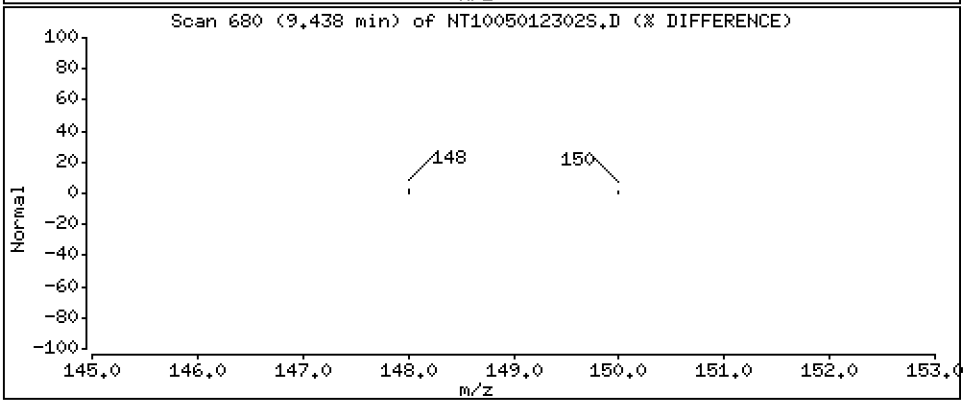












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

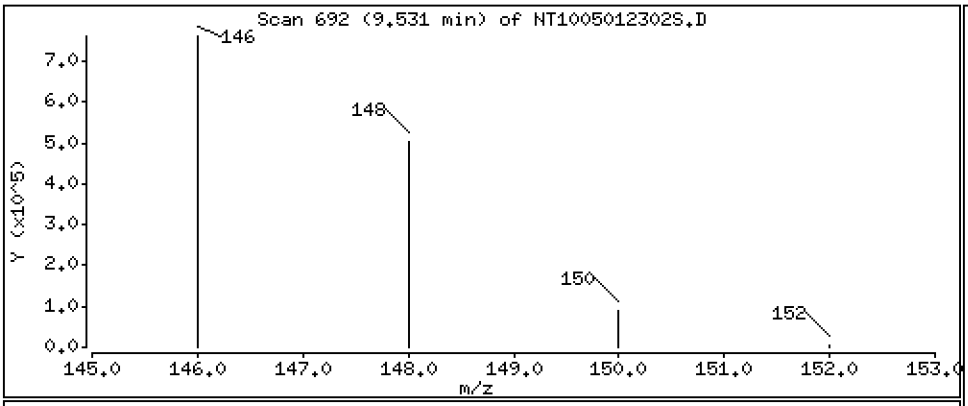
Operator: JGR

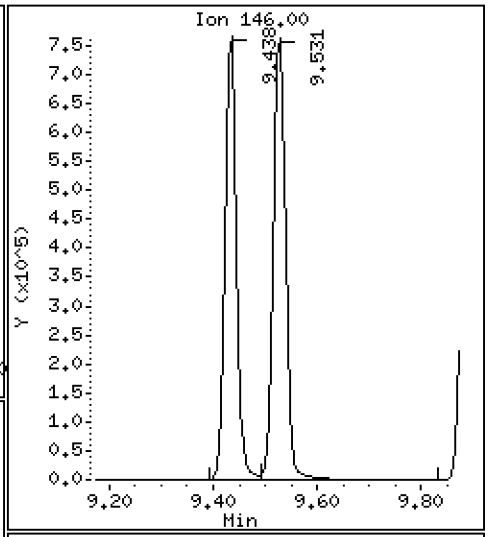
Column phase: ZB-5msi

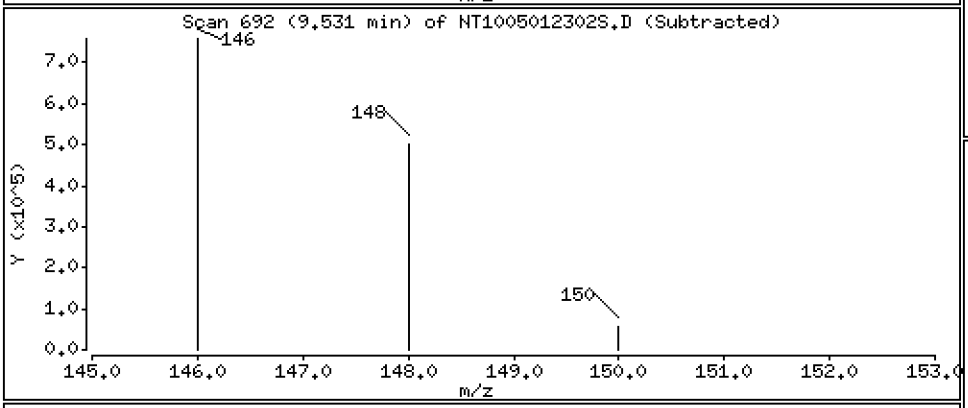
Column diameter: 0.25

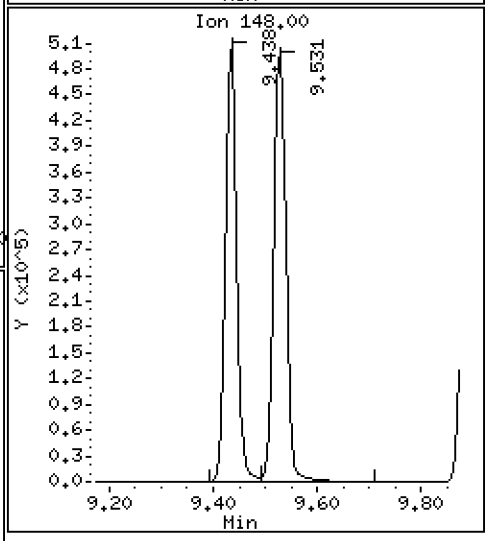
9 1,4-Dichlorobenzene

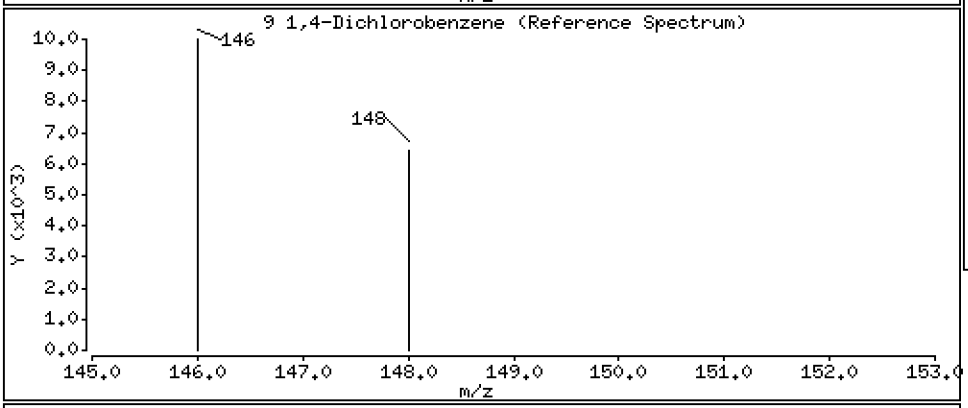
Concentration: 18.61 ug/L

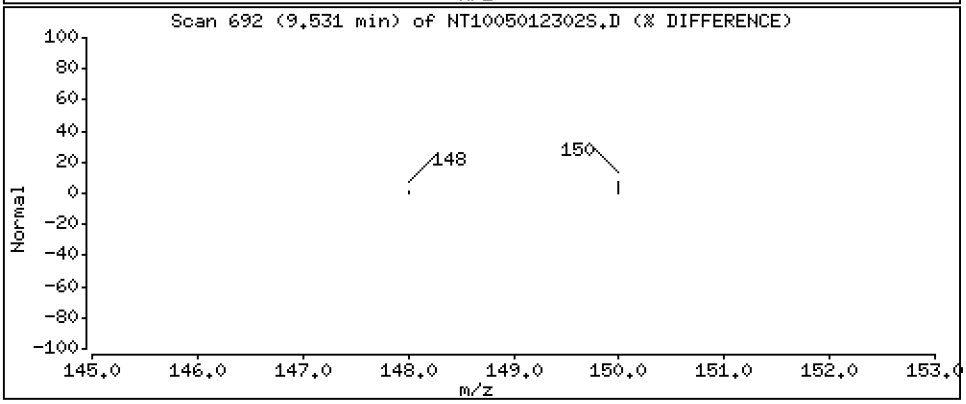












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

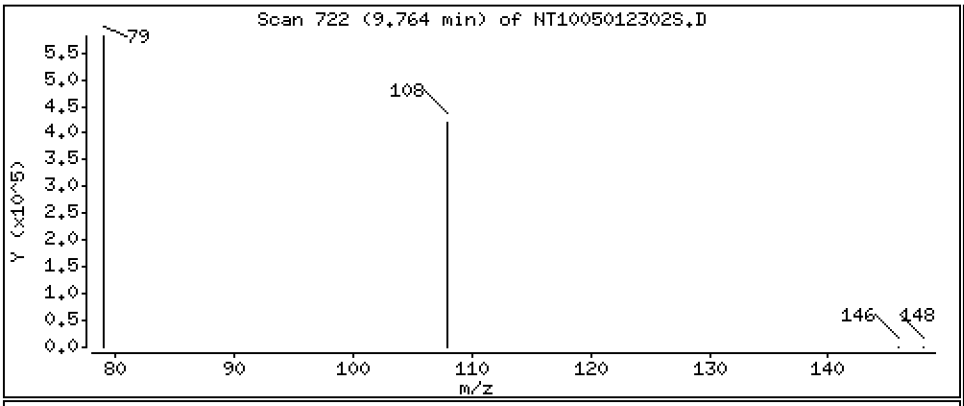
Operator: JGR

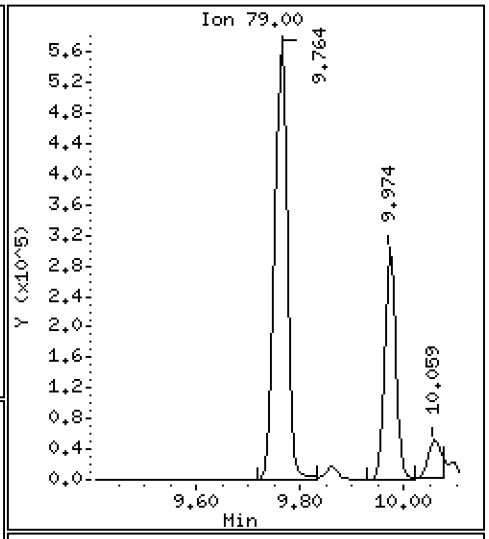
Column phase: ZB-5msi

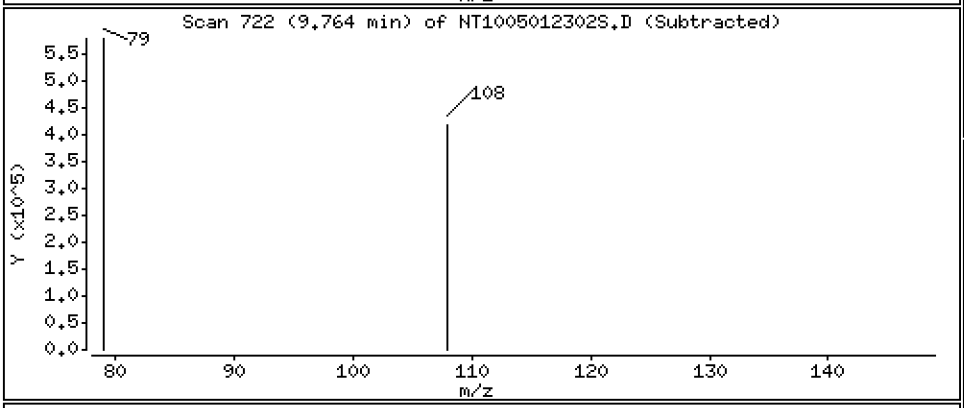
Column diameter: 0.25

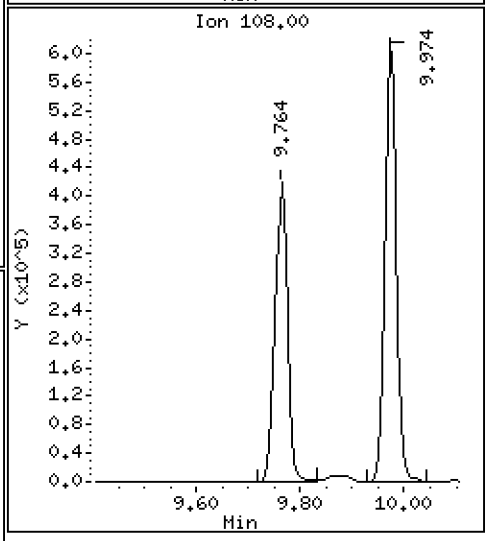
11 Benzyl alcohol

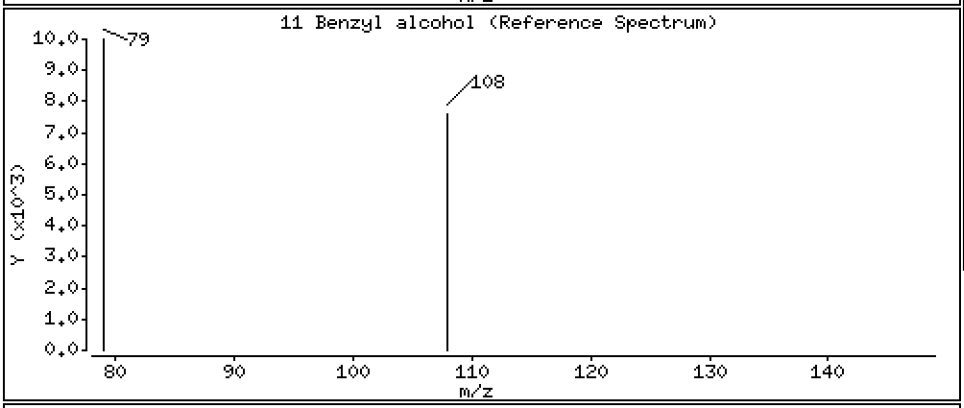
Concentration: 21.52 ug/L

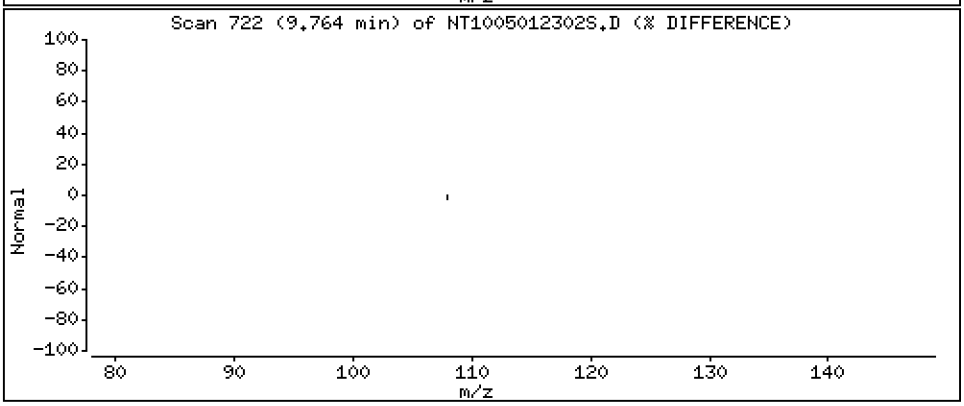












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

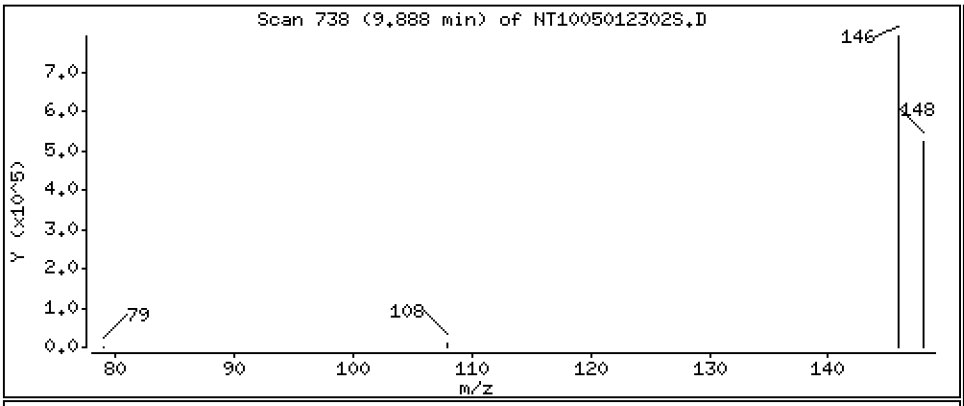
Operator: JGR

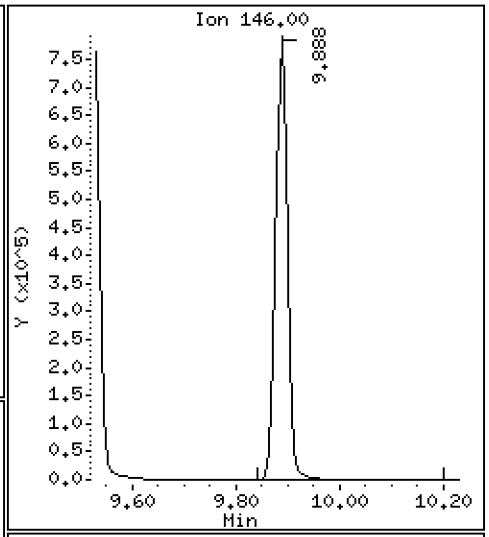
Column phase: ZB-5msi

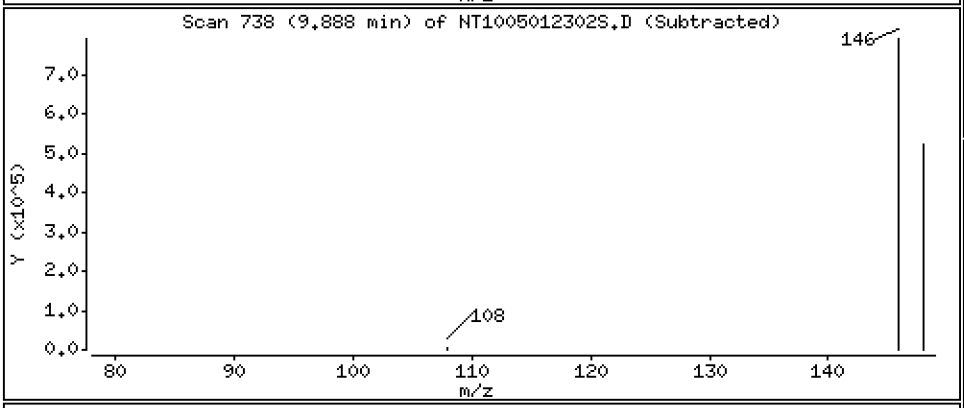
Column diameter: 0.25

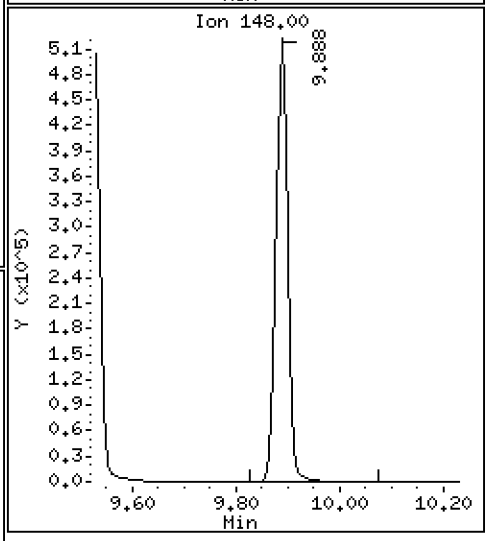
12 1,2-Dichlorobenzene

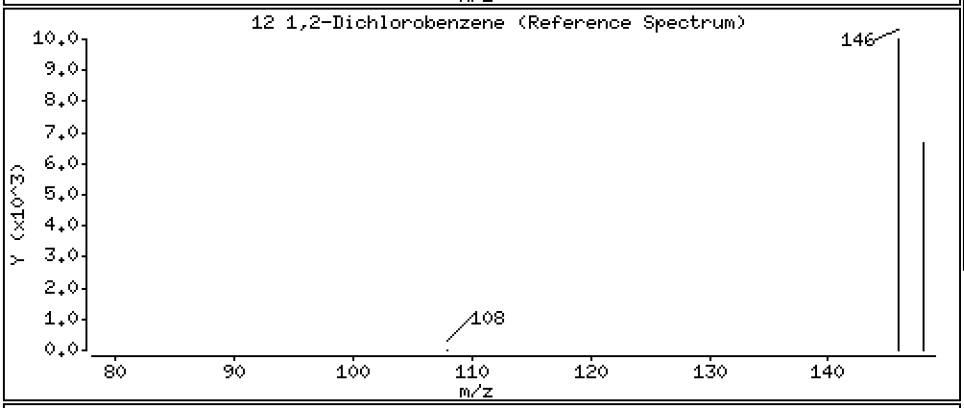
Concentration: 18.94 ug/L

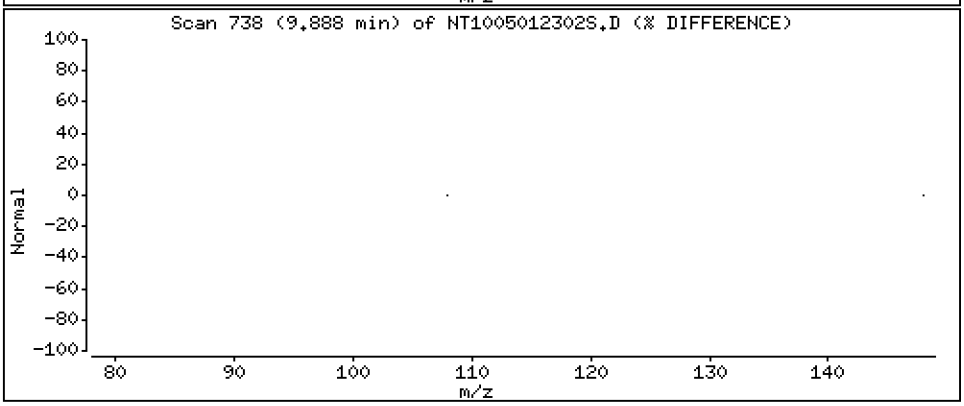












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

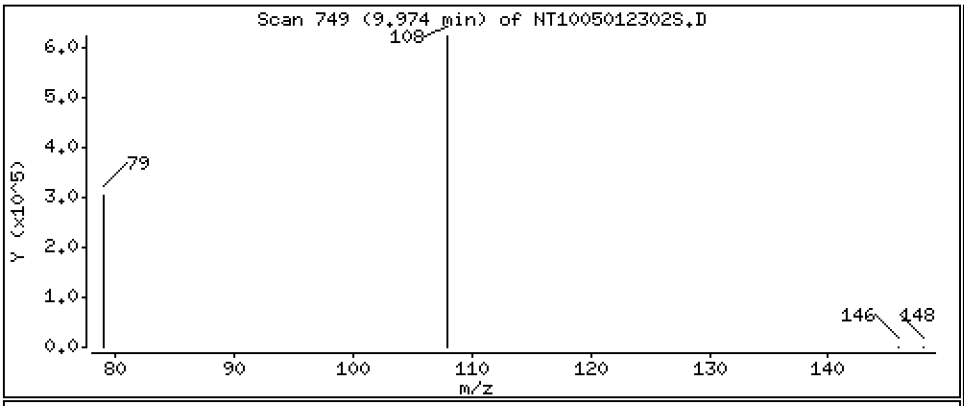
Operator: JGR

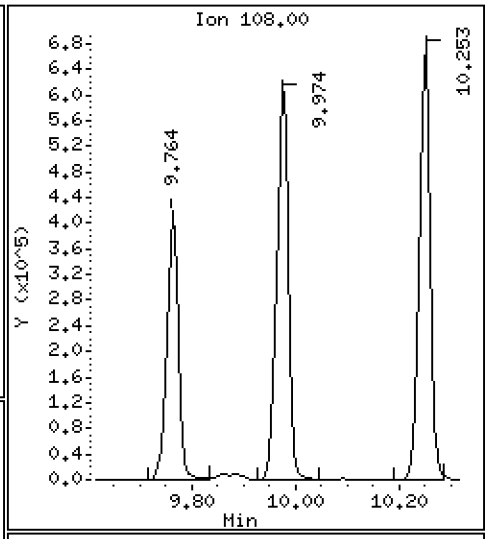
Column phase: ZB-5msi

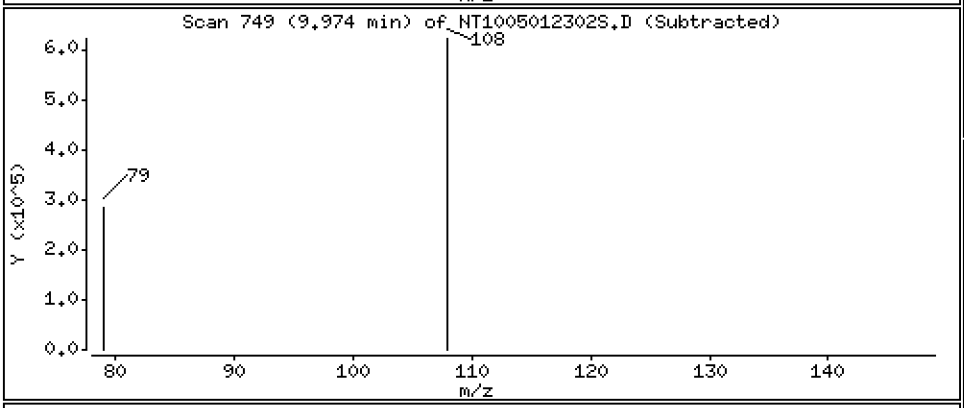
Column diameter: 0.25

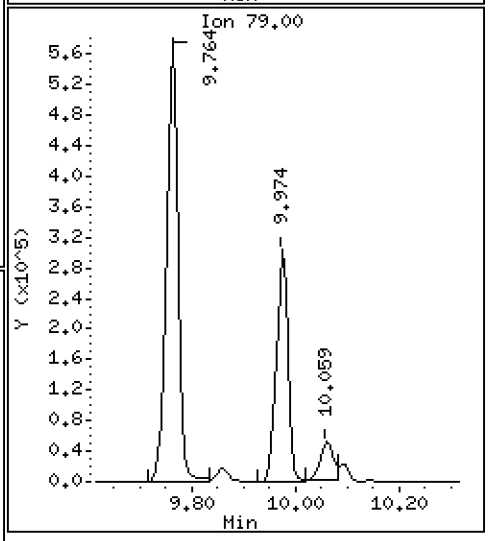
13 2-Methylphenol

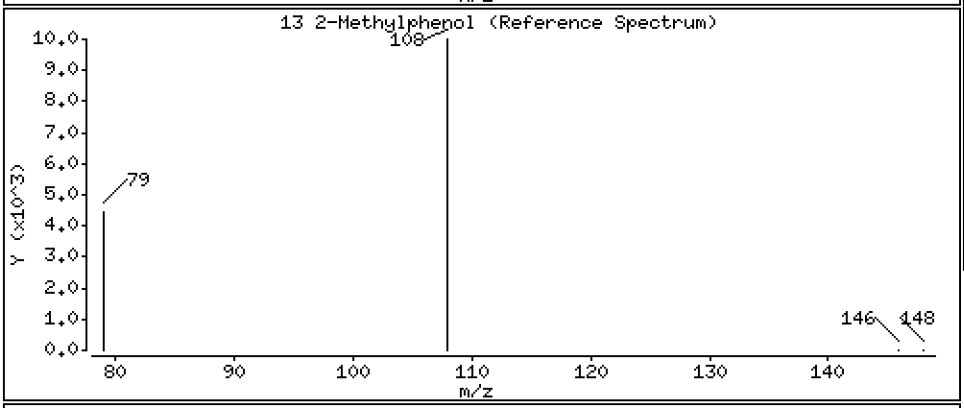
Concentration: 20.45 ug/L

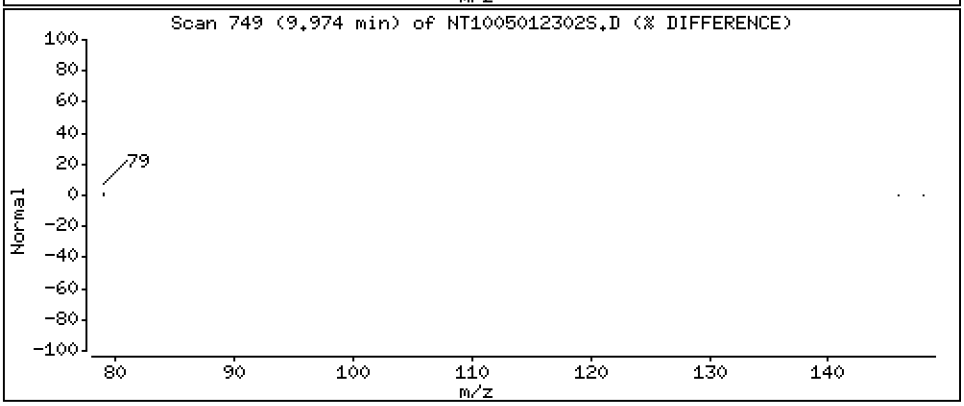












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

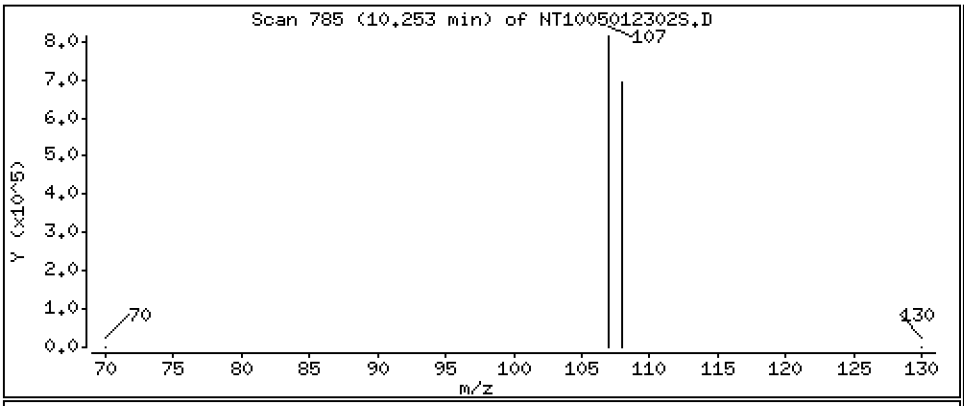
Operator: JGR

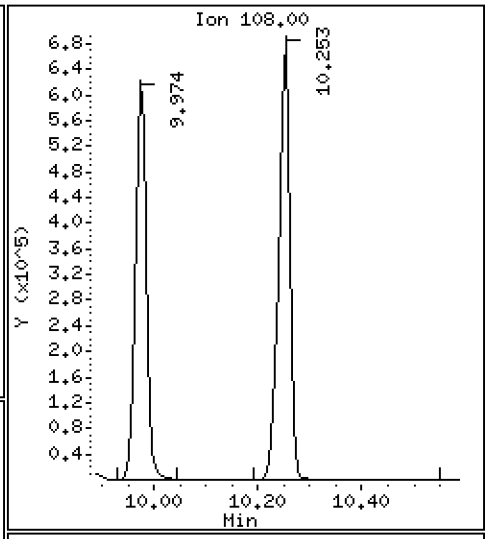
Column phase: ZB-5msi

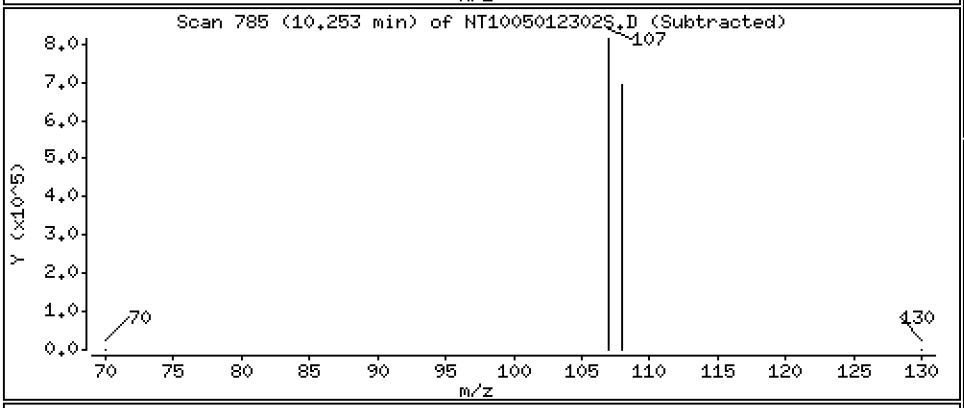
Column diameter: 0.25

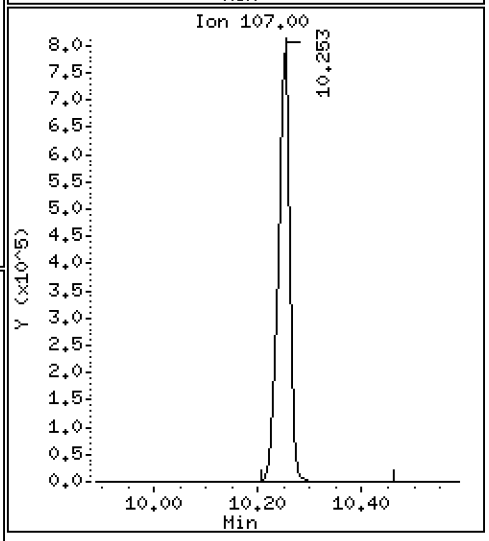
15 4-Methylphenol

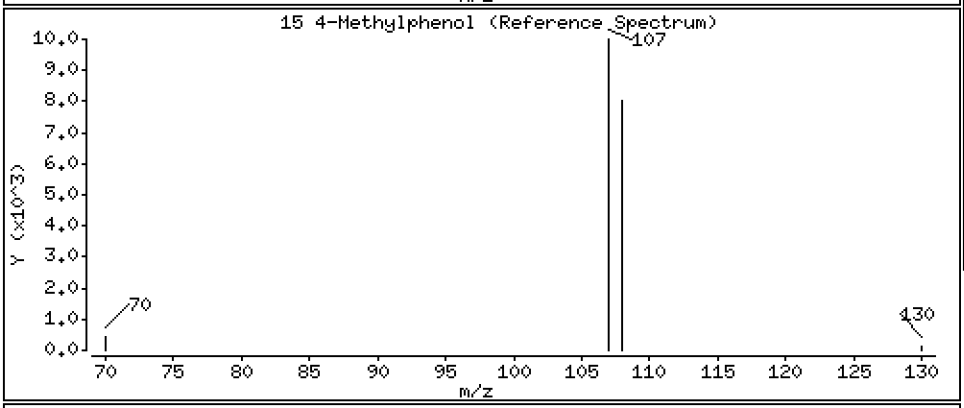
Concentration: 21.09 ug/L

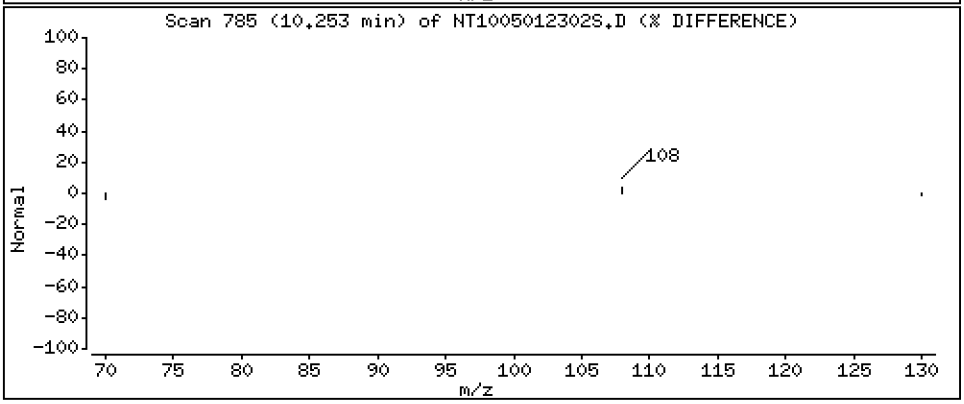












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Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

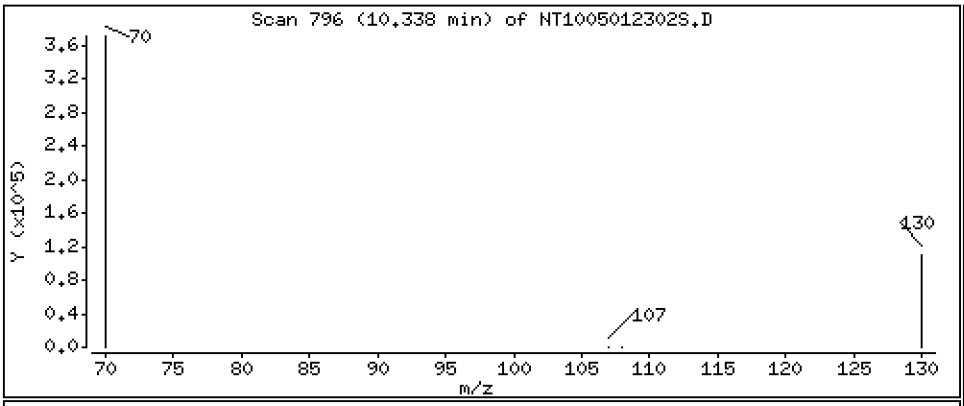
Operator: JGR

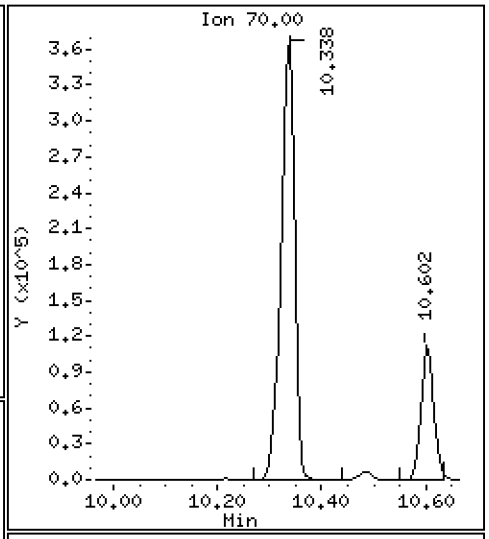
Column phase: ZB-5msi

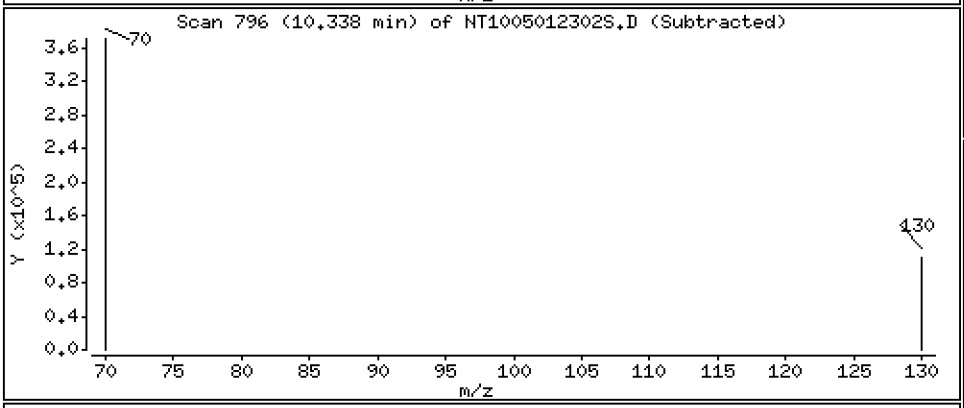
Column diameter: 0.25

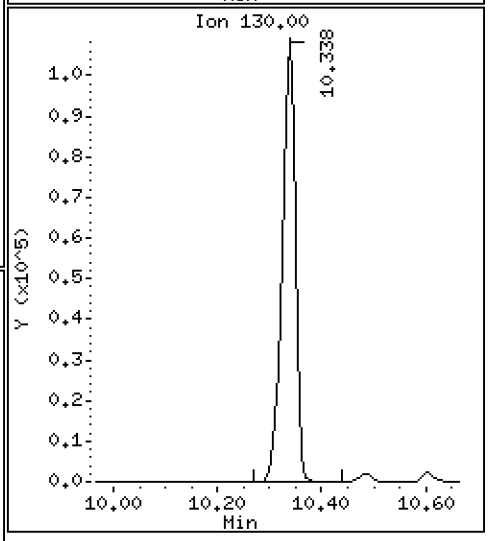
16 N-Nitroso-di-n-propylamine

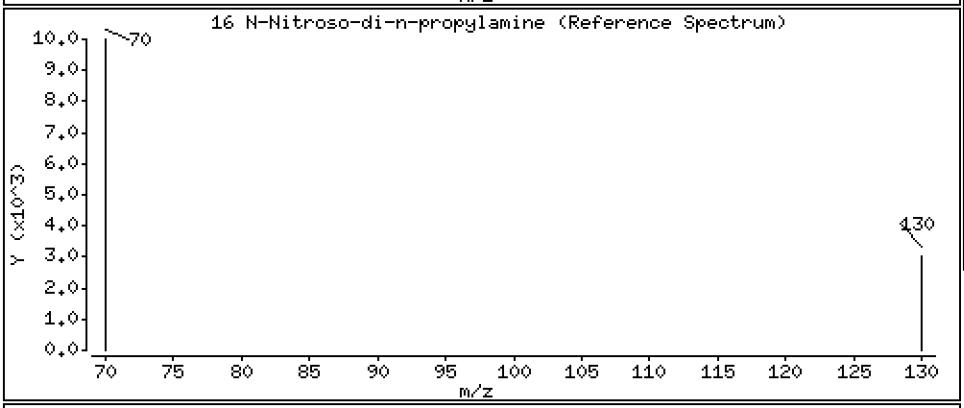
Concentration: 19.64 ug/L

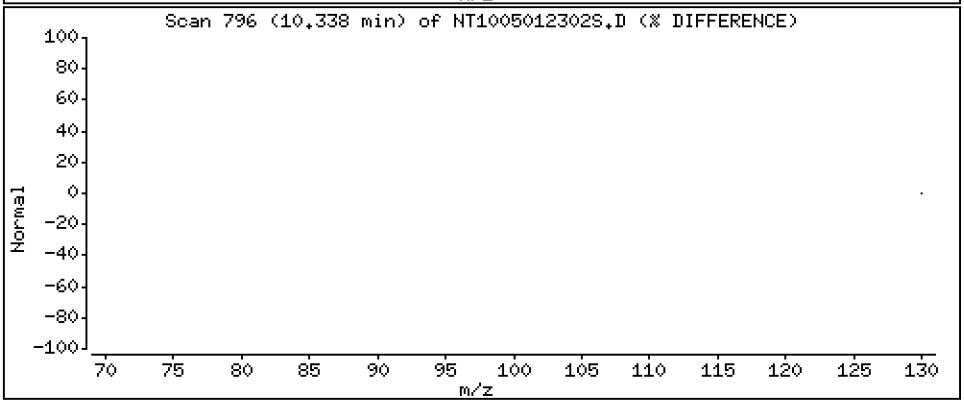












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Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

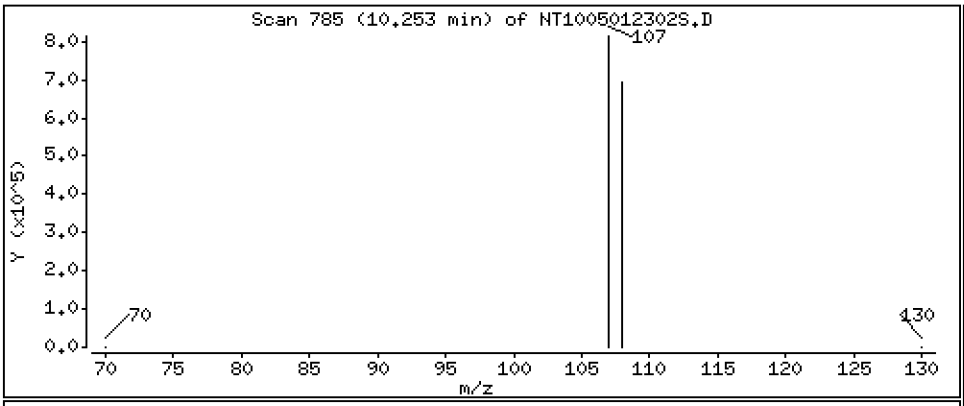
Operator: JGR

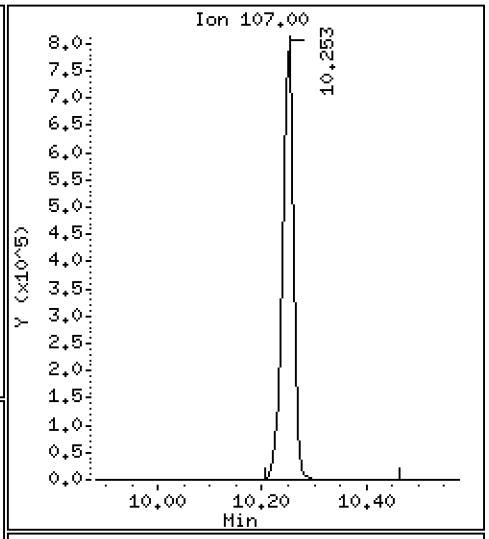
Column phase: ZB-5msi

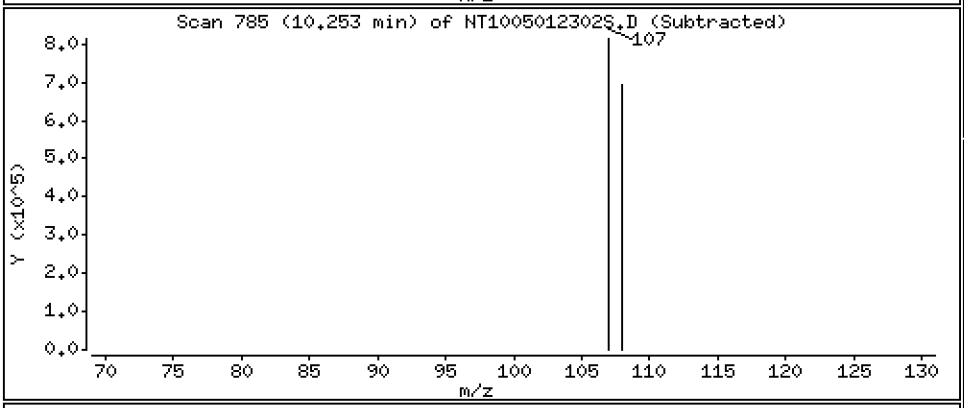
Column diameter: 0.25

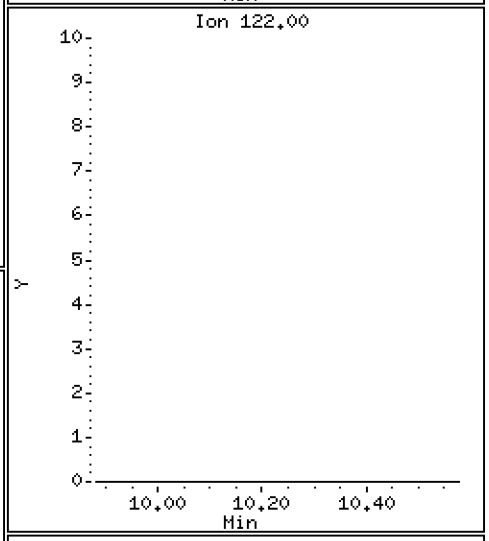
22 2,4-Dimethylphenol

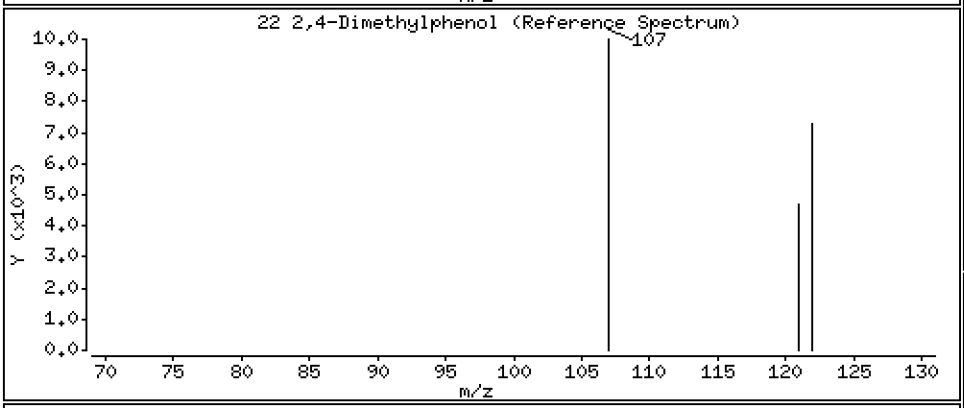
Concentration: 36.80 ug/L

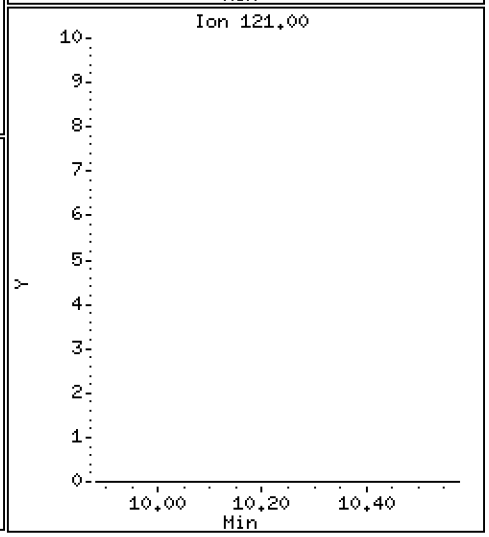


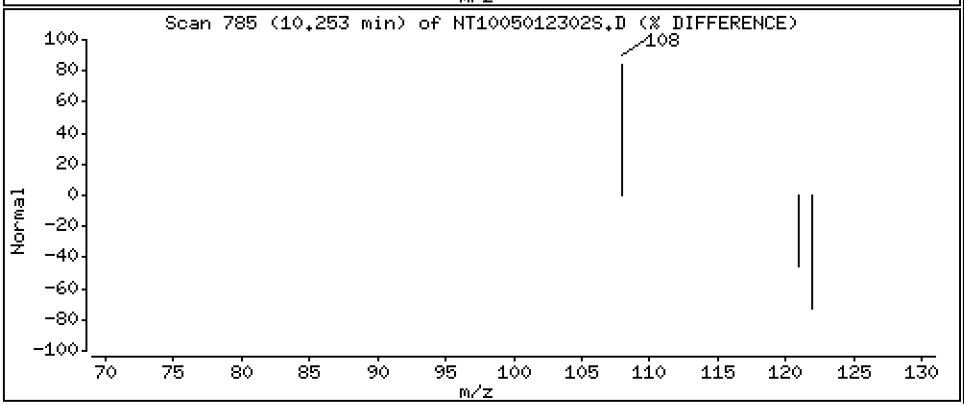












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Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

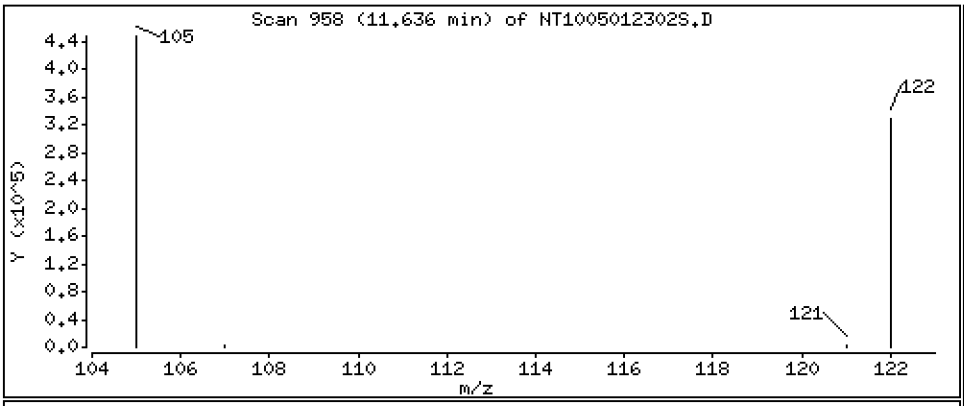
Operator: JGR

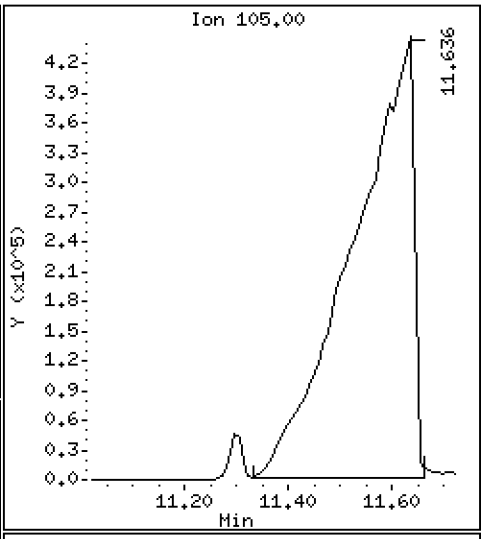
Column phase: ZB-5msi

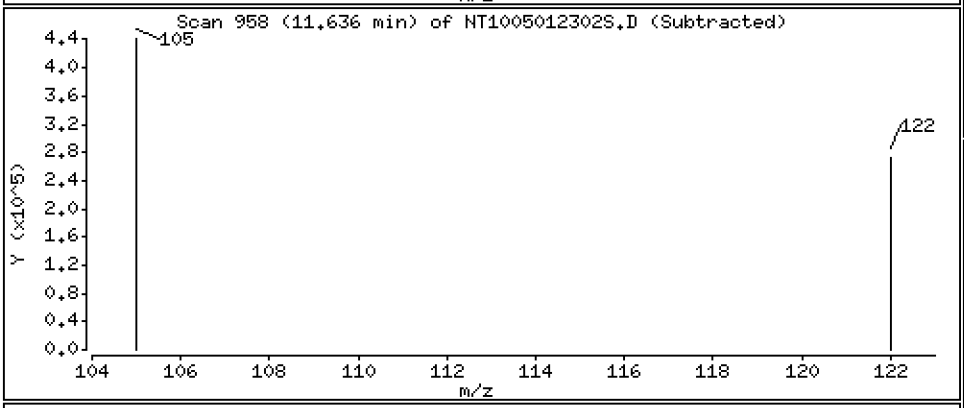
Column diameter: 0.25

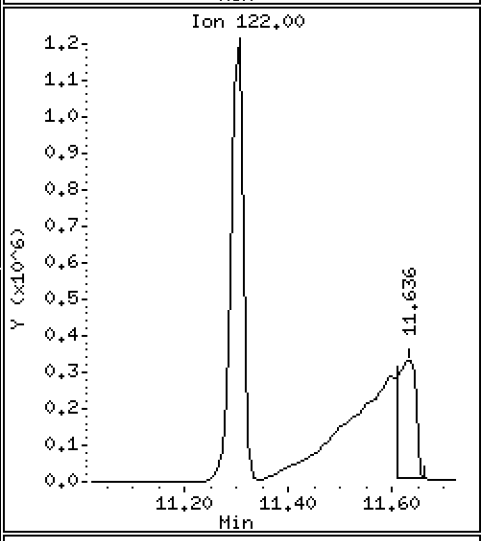
24 Benzoic acid

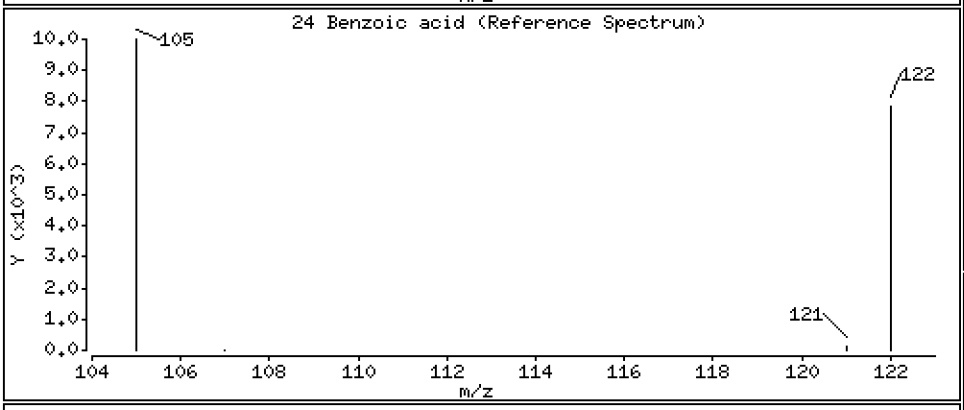
Concentration: 60.29 ug/L

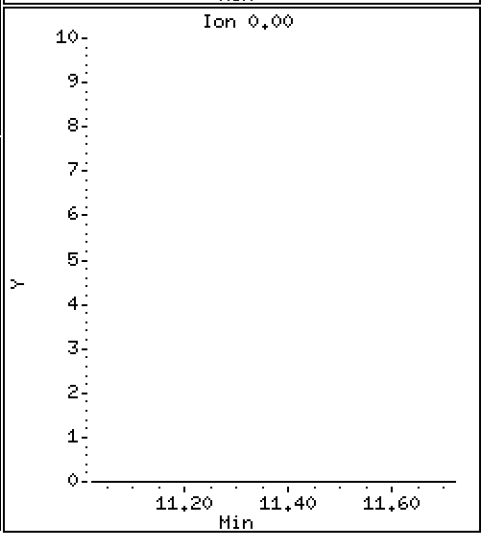


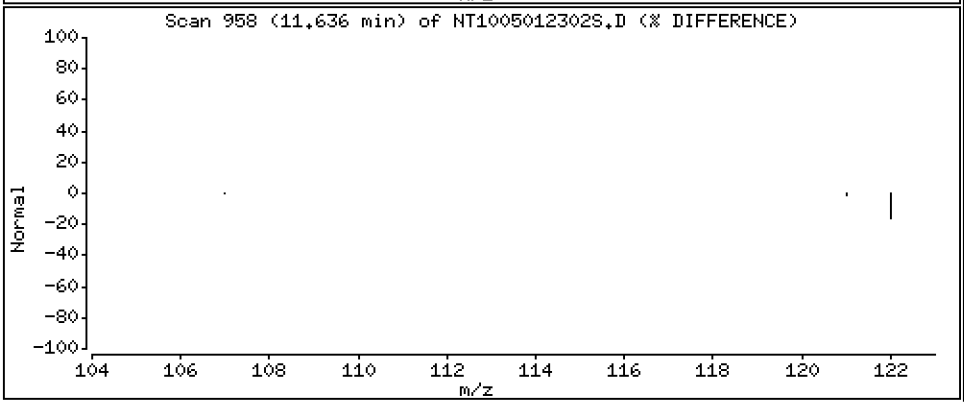












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

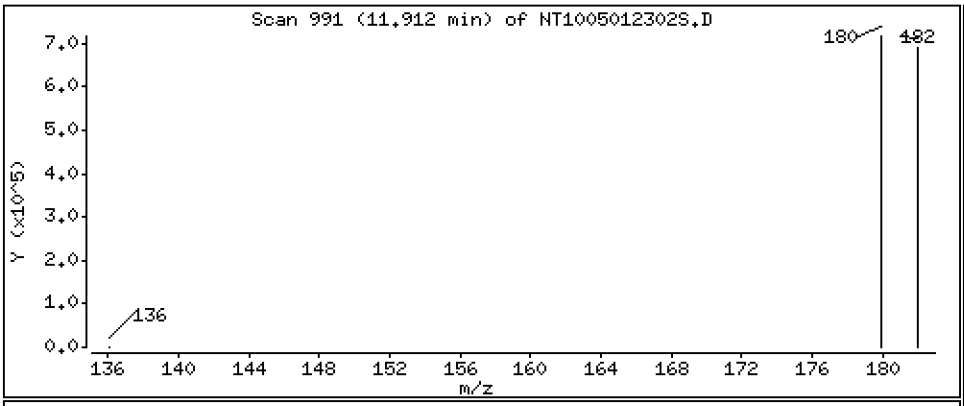
Operator: JGR

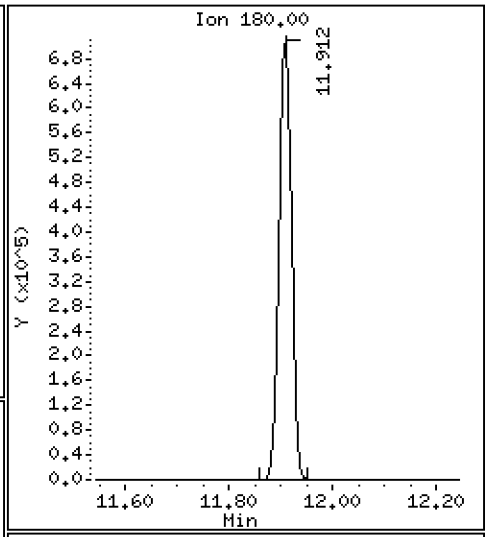
Column phase: ZB-5msi

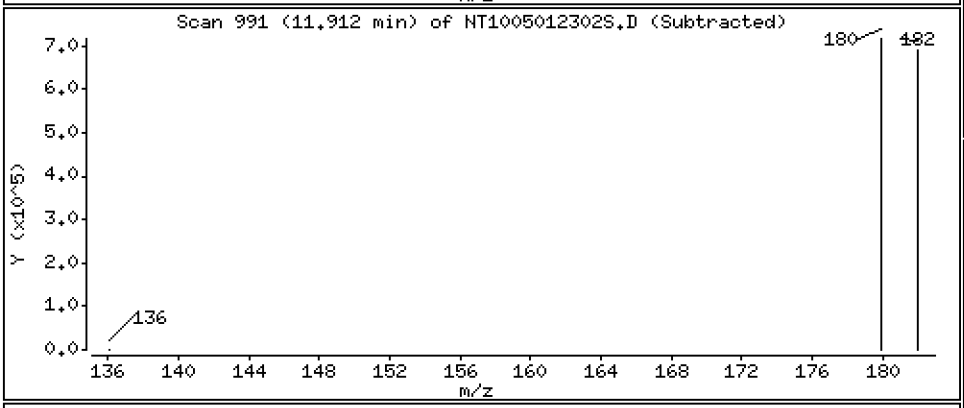
Column diameter: 0.25

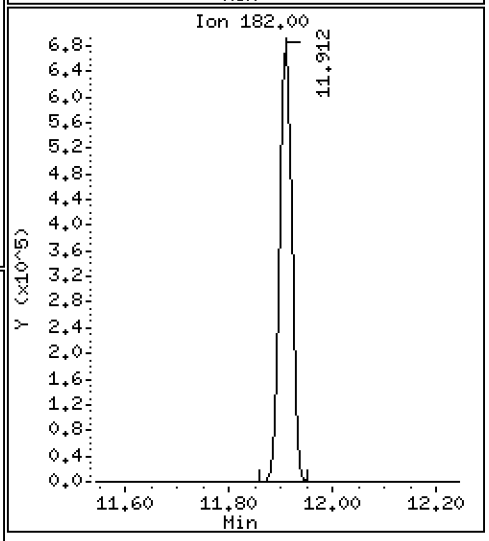
26 1,2,4-Trichlorobenzene

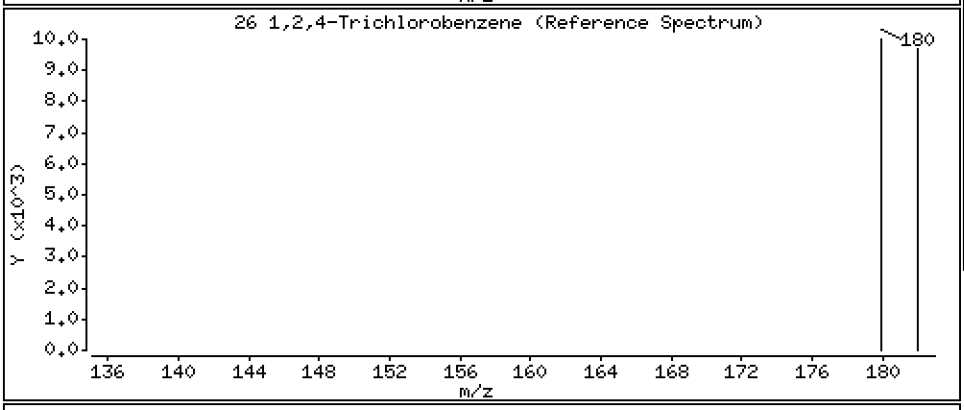
Concentration: 19.00 ug/L

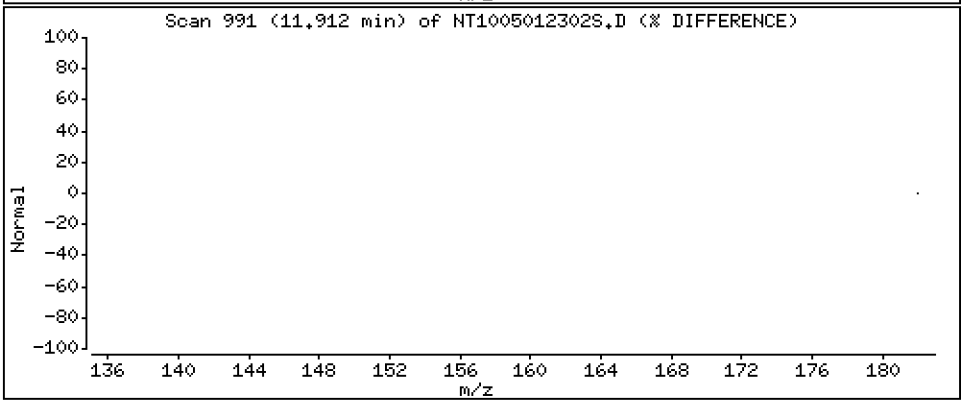












Date : 01-MAY-2023 14:52

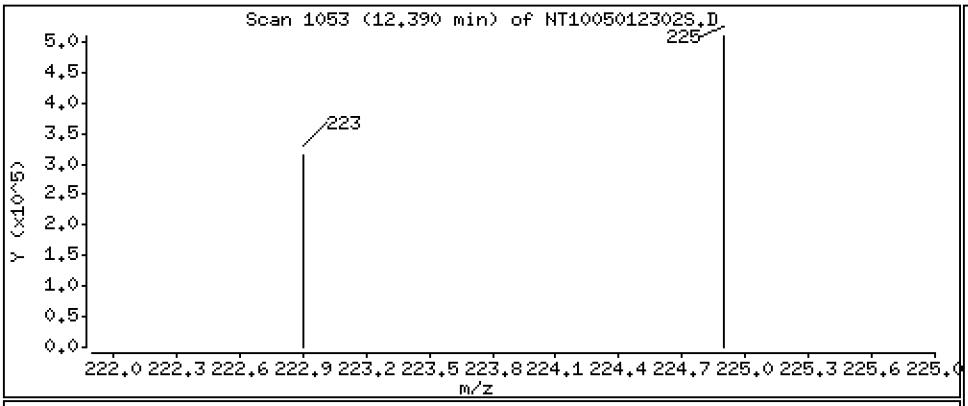
Client ID: Instrument: nt10.i

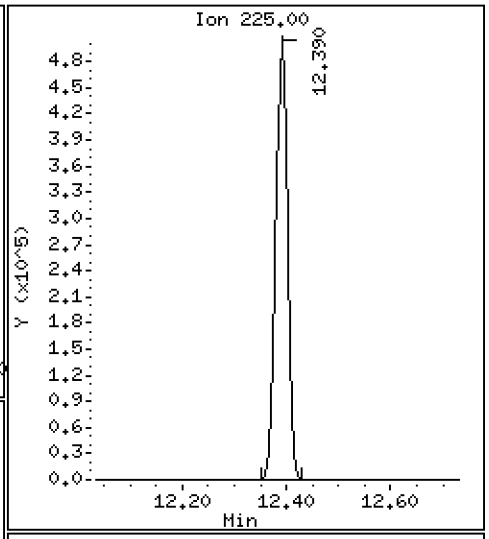
Sample Info: SLE0082-CAL7

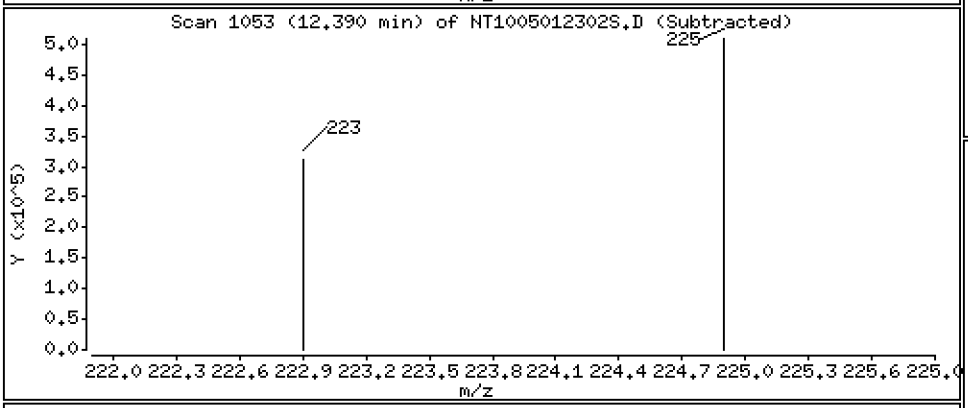
Volume Injected (uL): 1.0 Operator: JGR

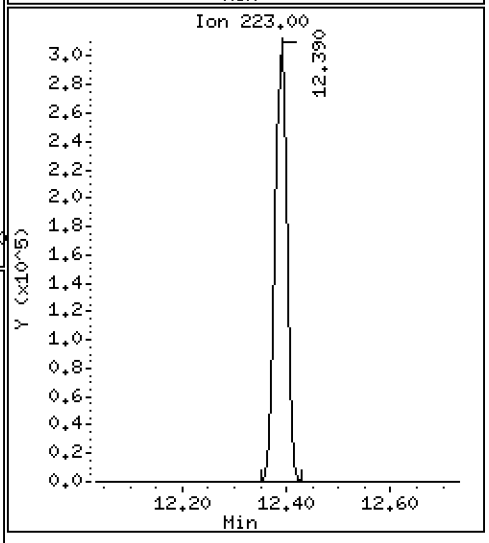
Column phase: ZB-5msi Column diameter: 0.25

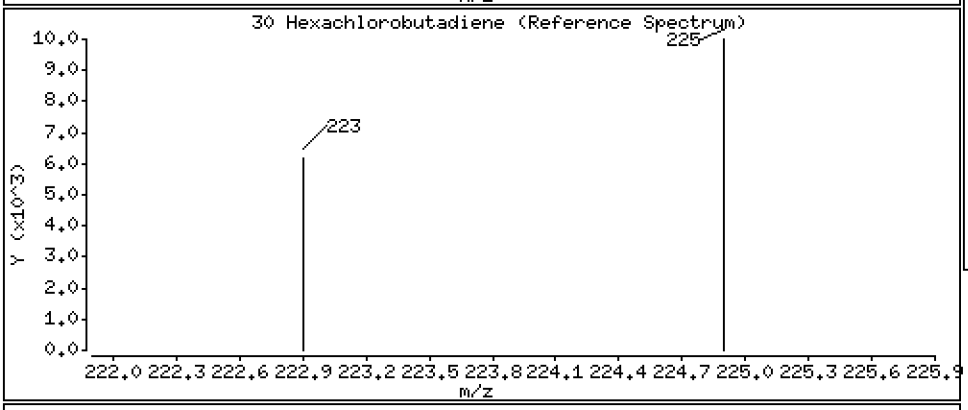
30 Hexachlorobutadiene Concentration: 19.67 ug/L

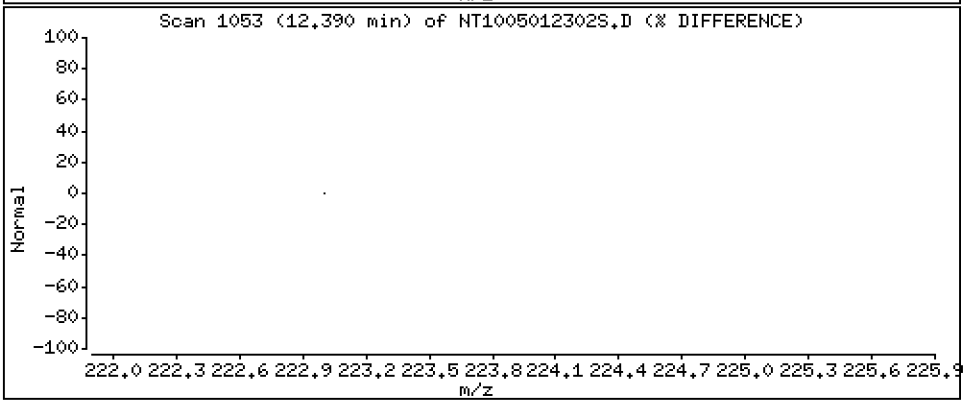












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

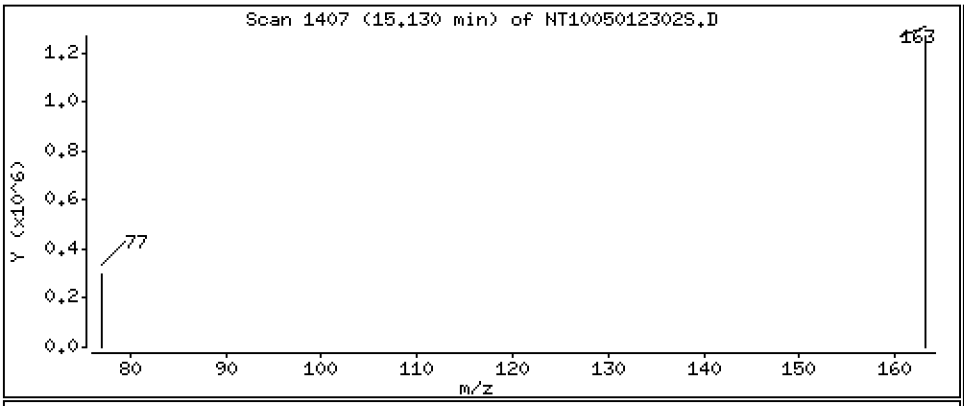
Operator: JGR

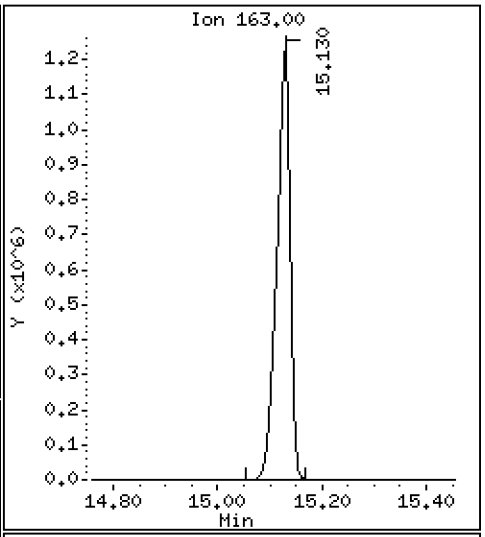
Column phase: ZB-5msi

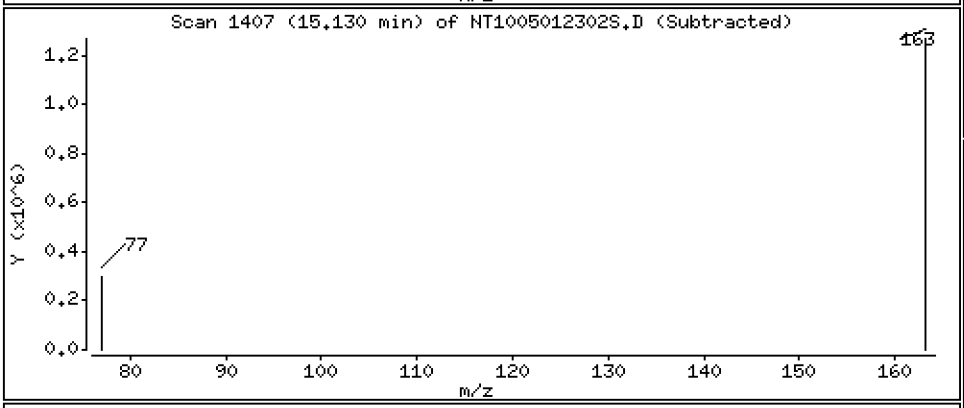
Column diameter: 0.25

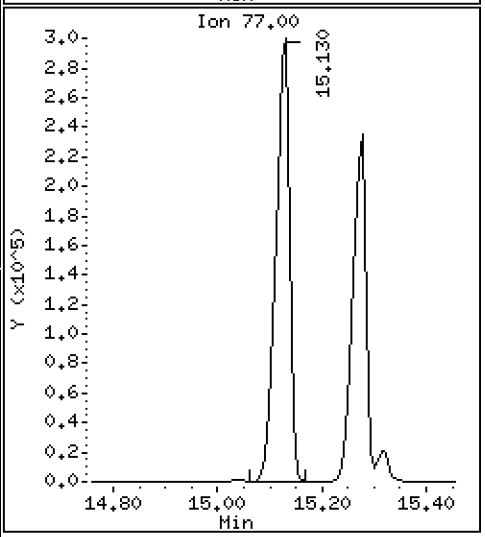
39 Dimethylphthalate

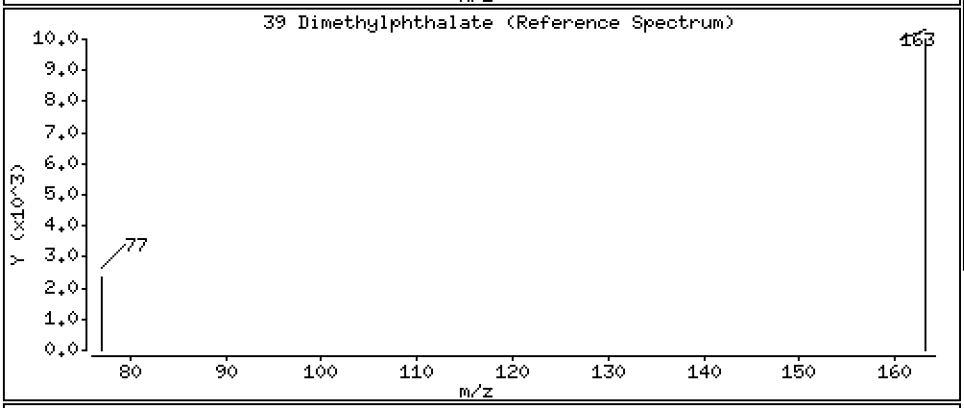
Concentration: 19.54 ug/L

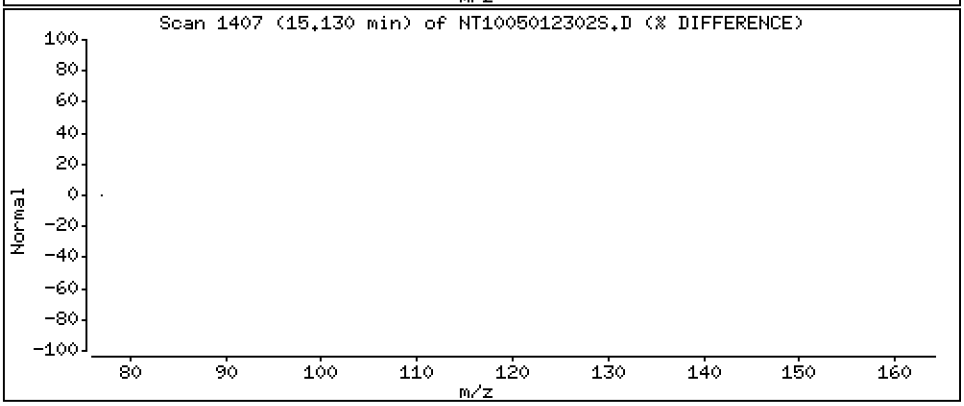












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

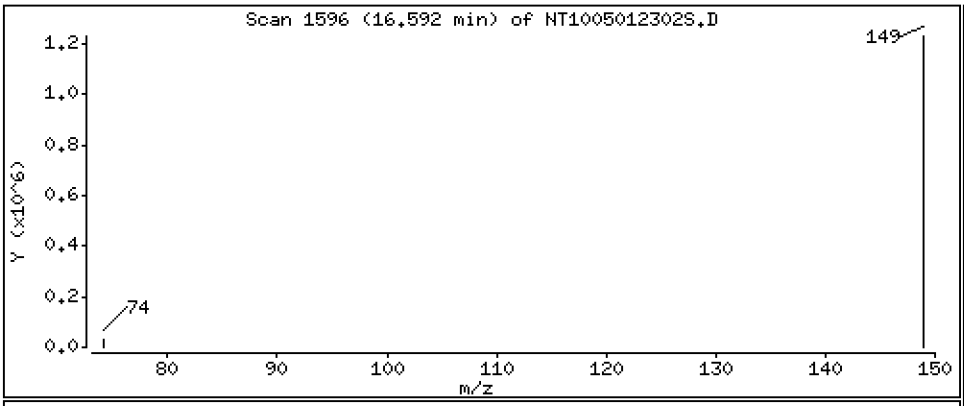
Operator: JGR

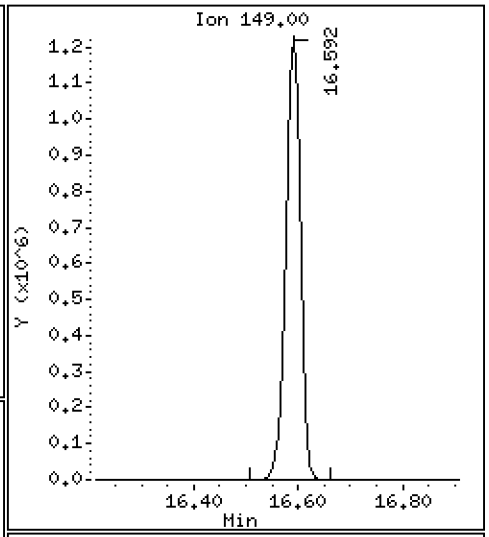
Column phase: ZB-5msi

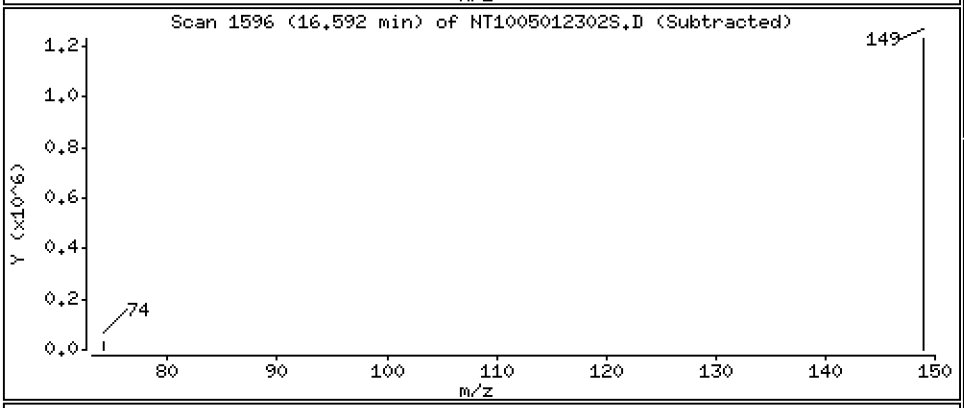
Column diameter: 0.25

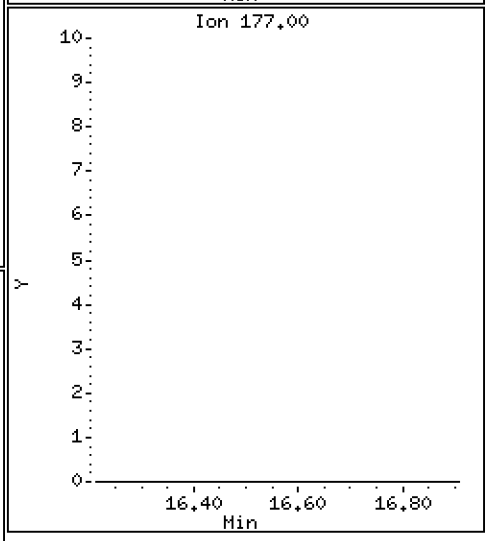
50 Diethylphthalate

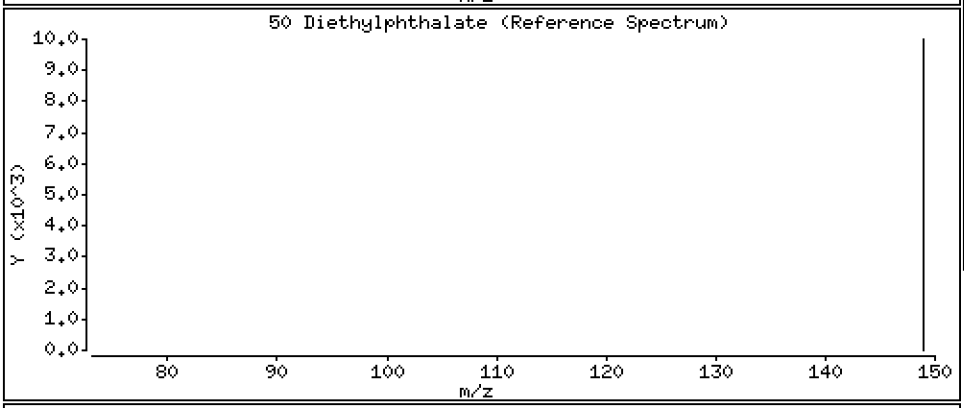
Concentration: 20.98 ug/L

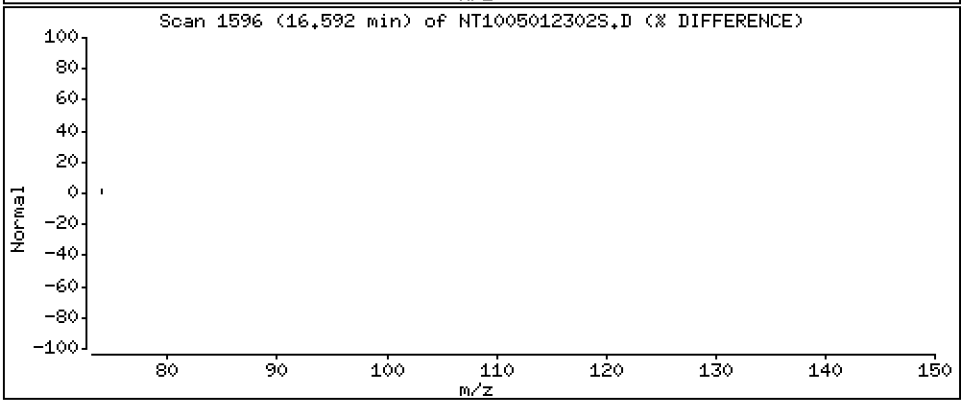












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

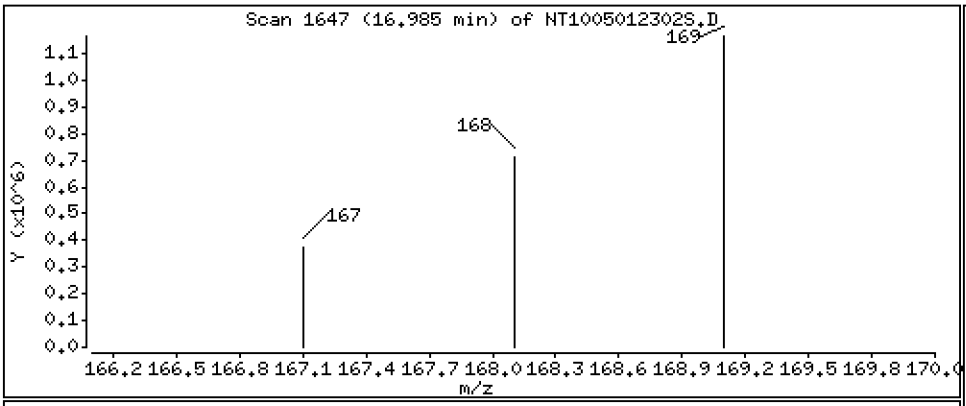
Operator: JGR

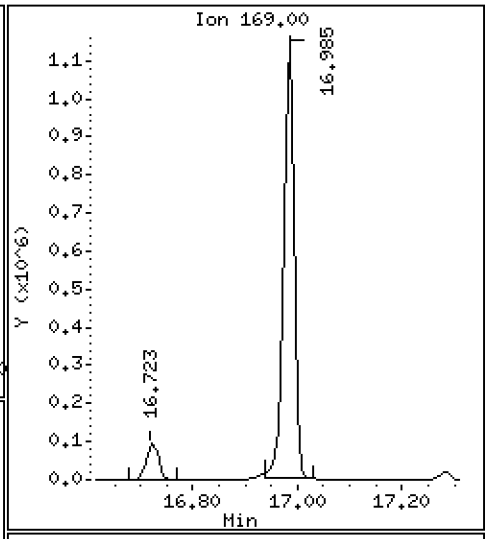
Column phase: ZB-5msi

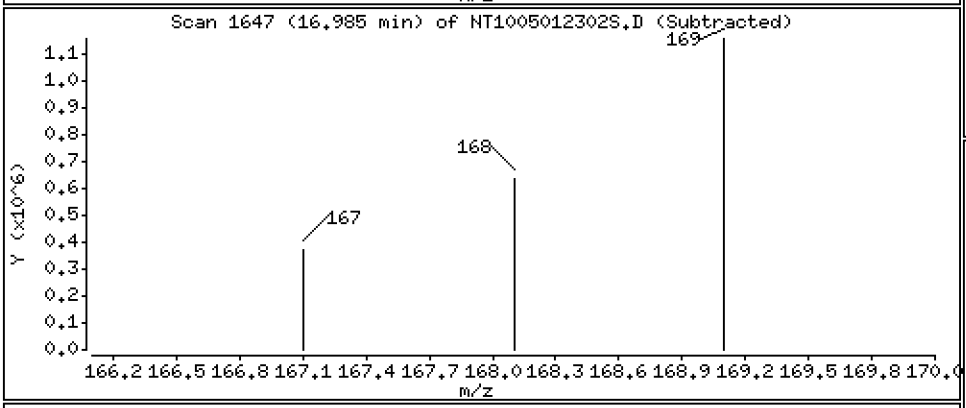
Column diameter: 0.25

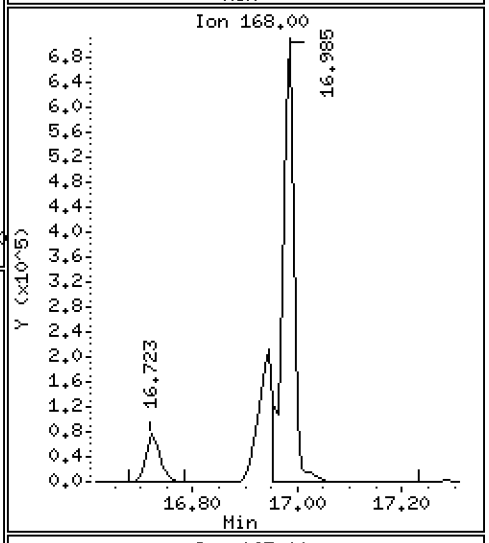
54 N-Nitrosodiphenylamine

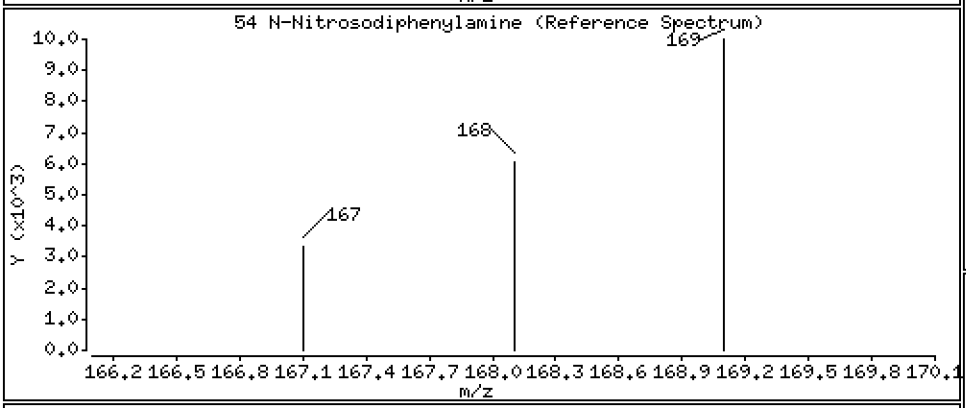
Concentration: 20.44 ug/L

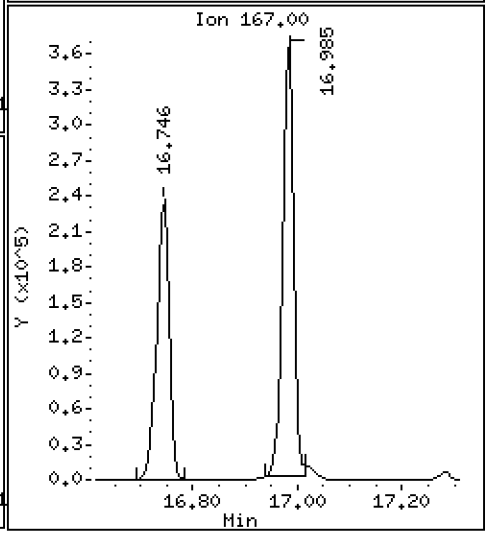


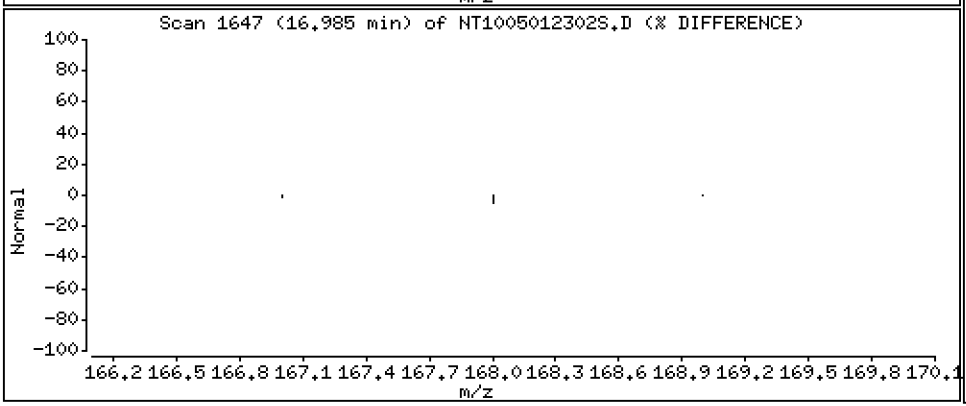












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

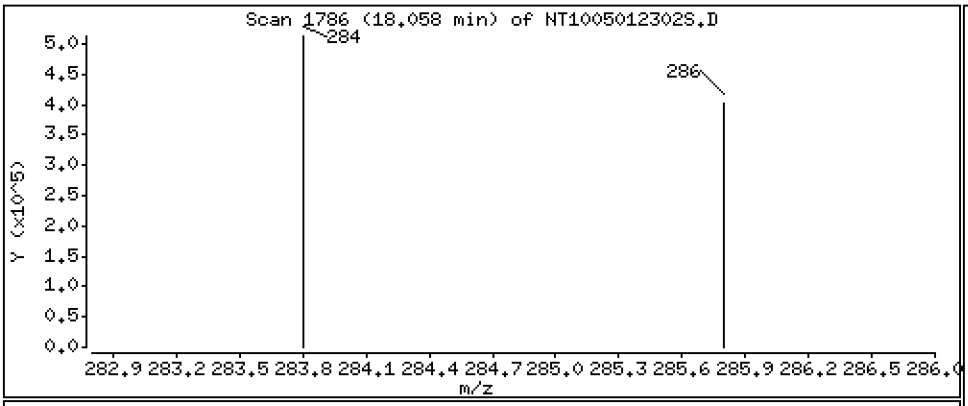
Operator: JGR

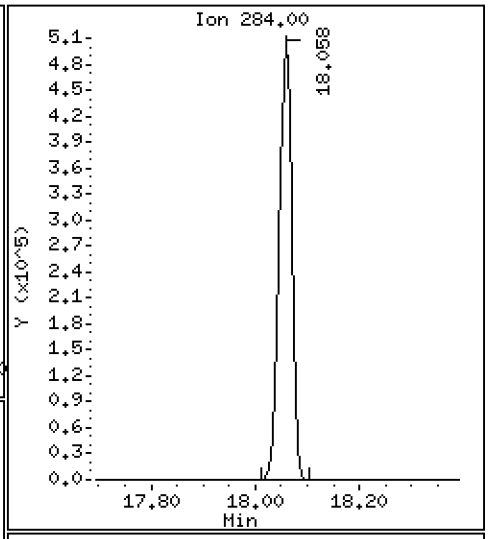
Column phase: ZB-5msi

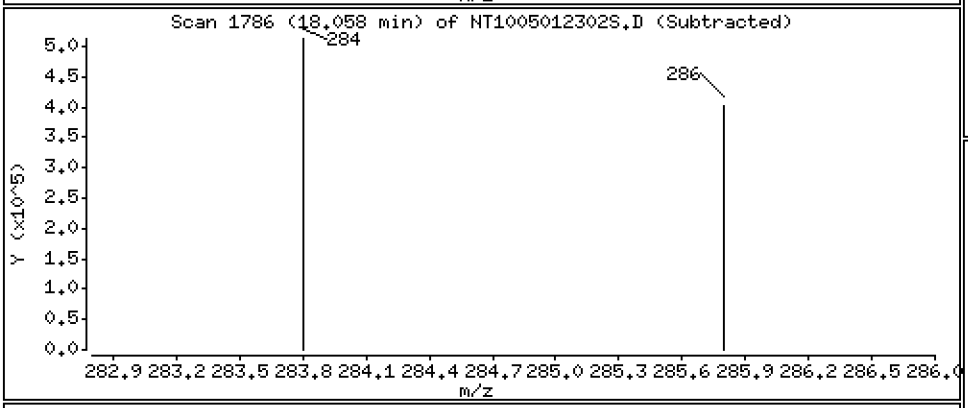
Column diameter: 0.25

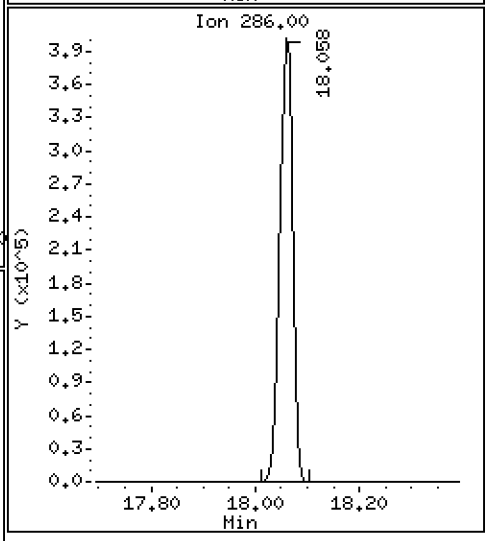
57 Hexachlorobenzene

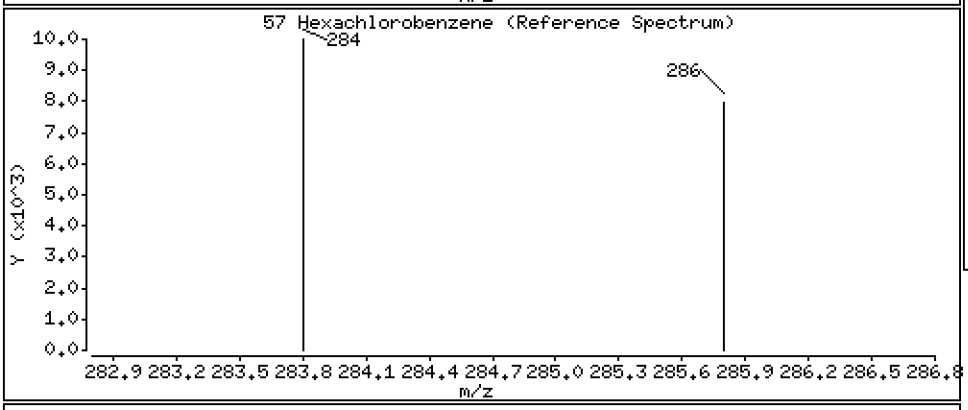
Concentration: 20.19 ug/L

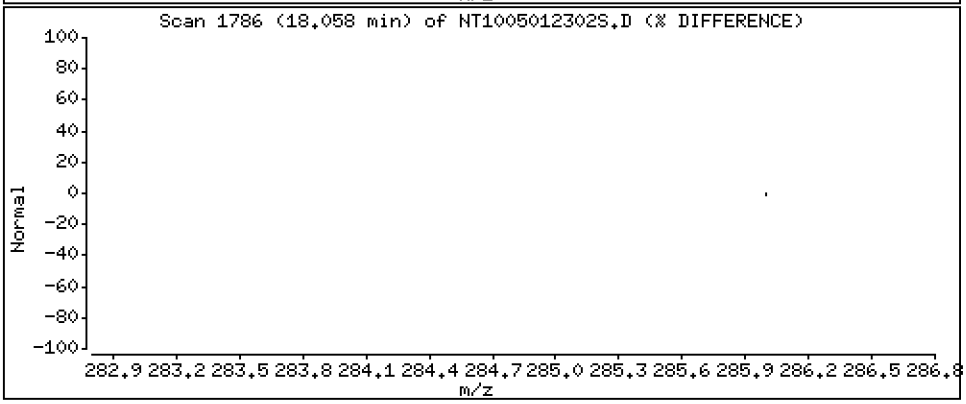












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

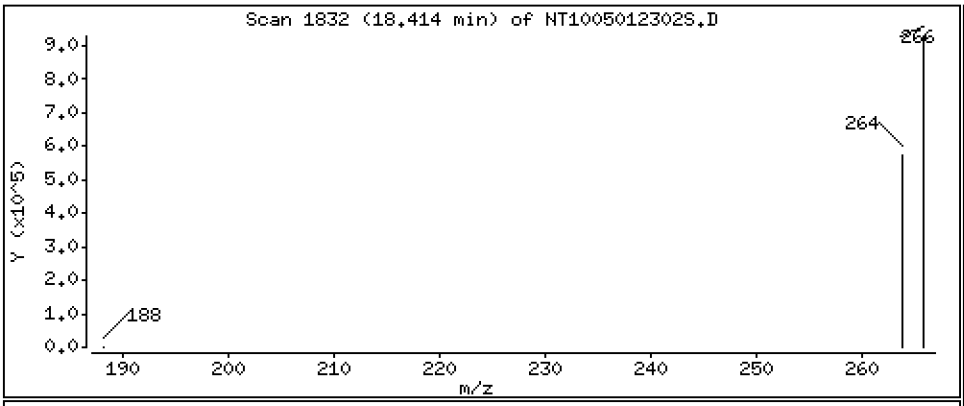
Operator: JGR

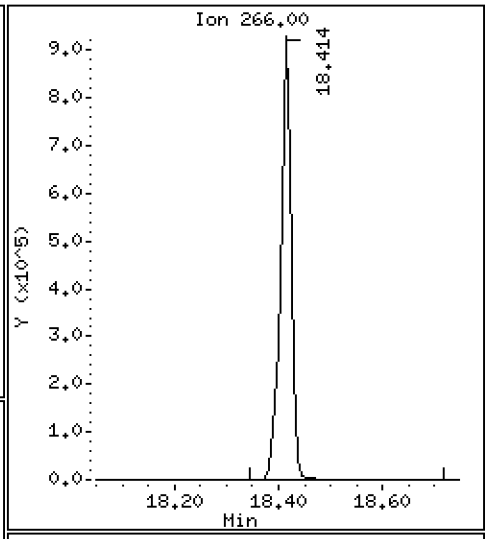
Column phase: ZB-5msi

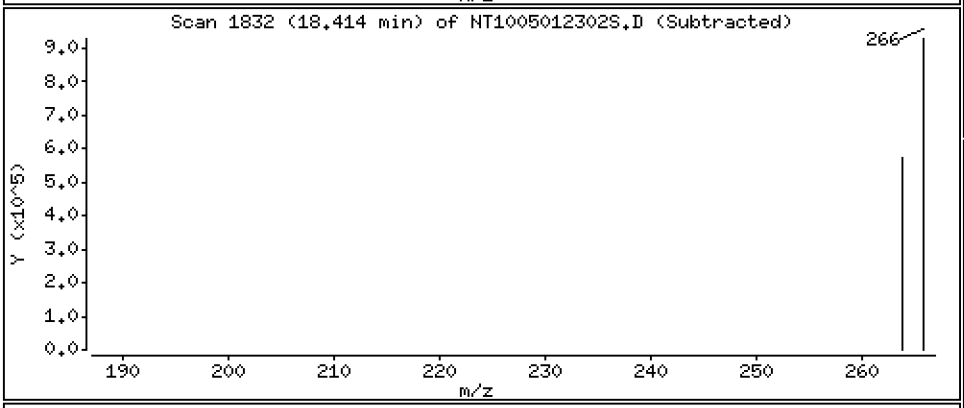
Column diameter: 0.25

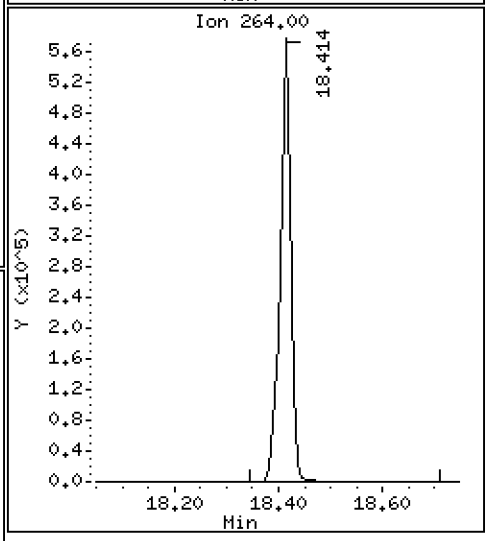
58 Pentachlorophenol

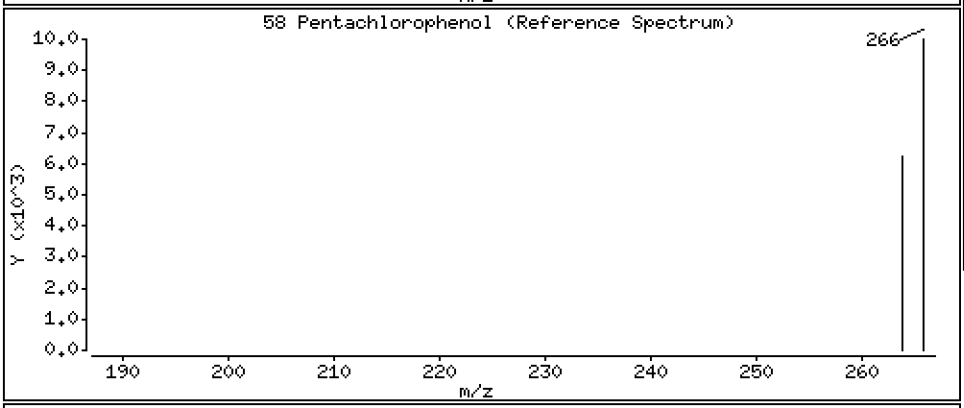
Concentration: 29.79 ug/L

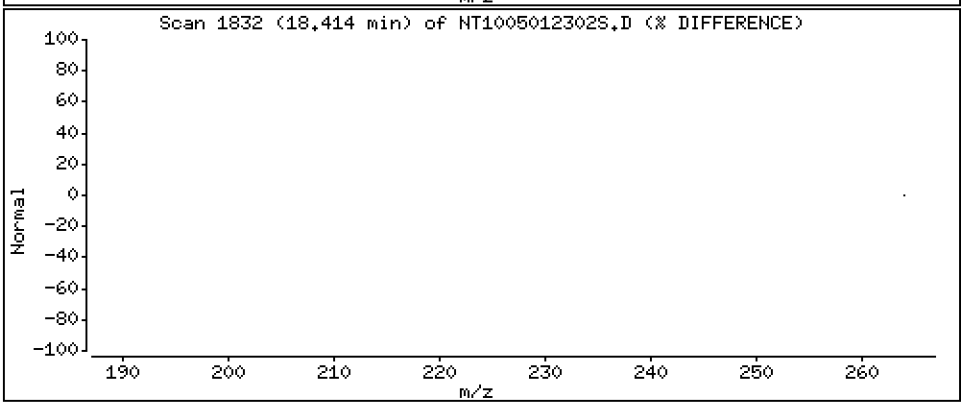












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

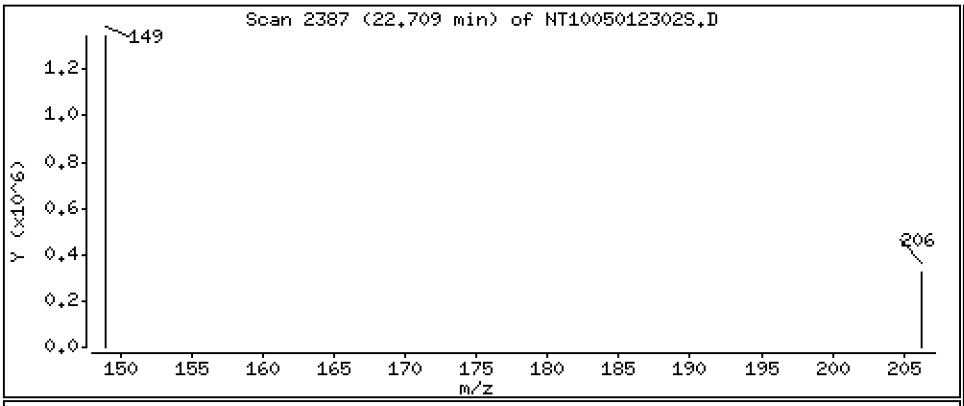
Operator: JGR

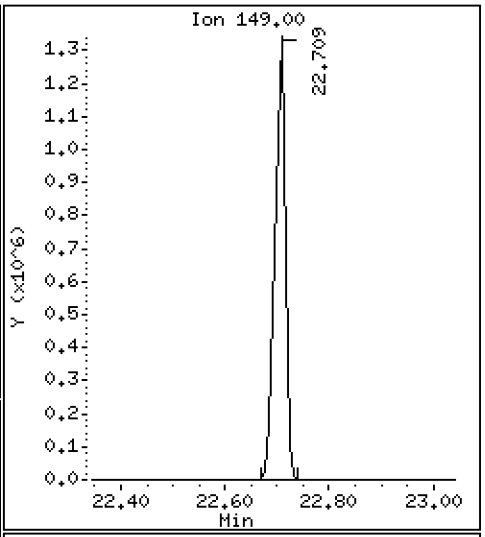
Column phase: ZB-5msi

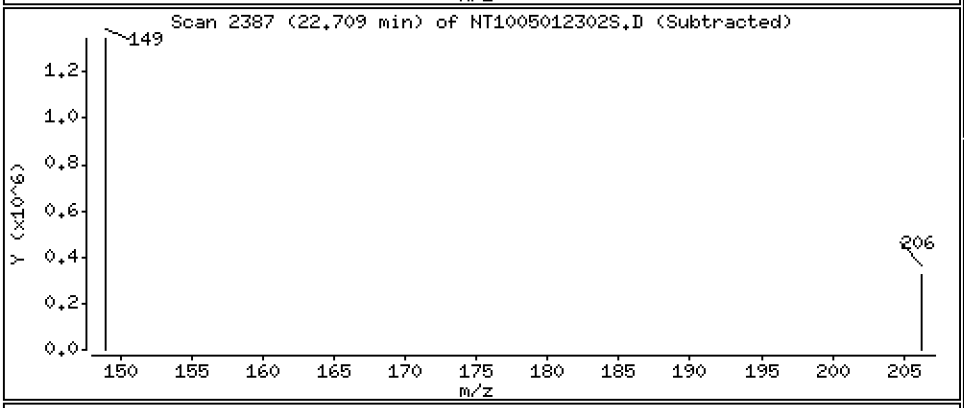
Column diameter: 0.25

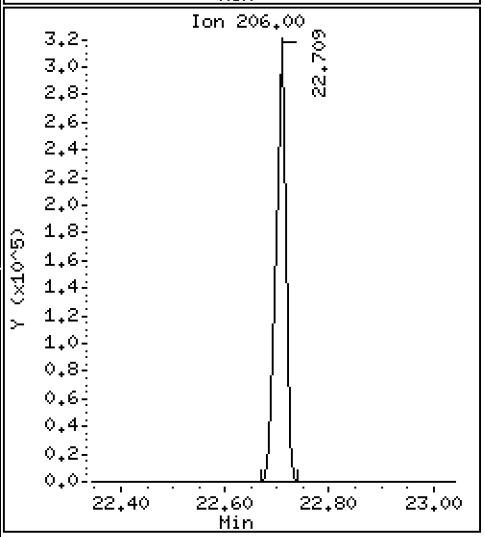
67 Butylbenzylphthalate

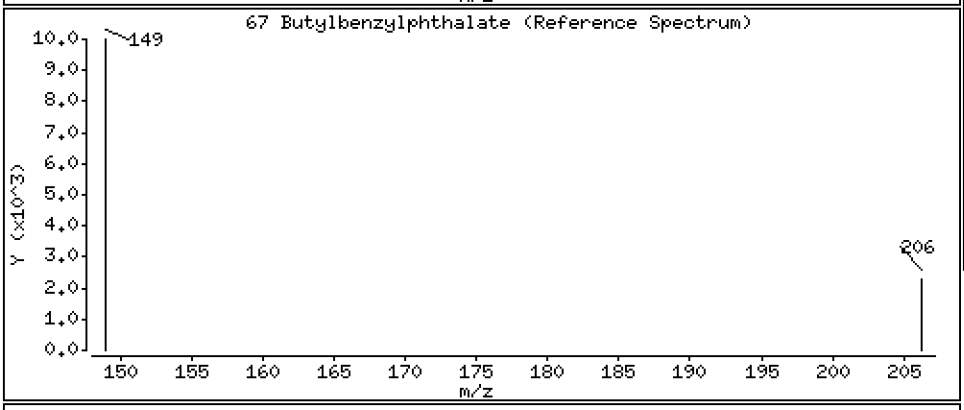
Concentration: 15.61 ug/L

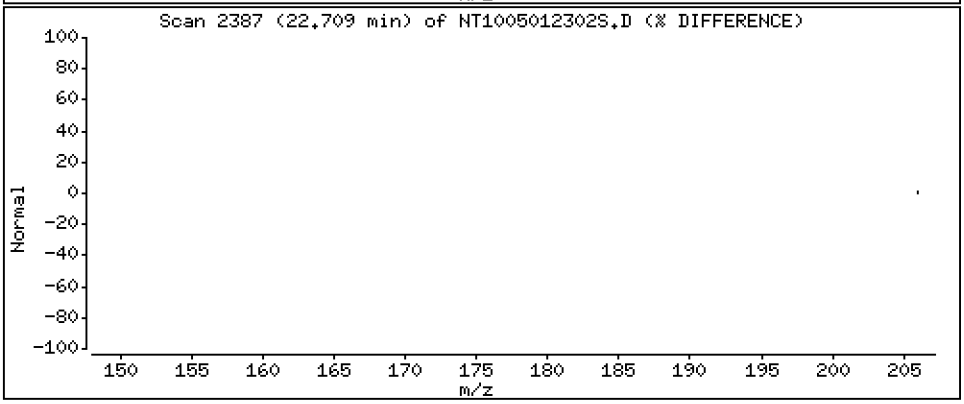












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

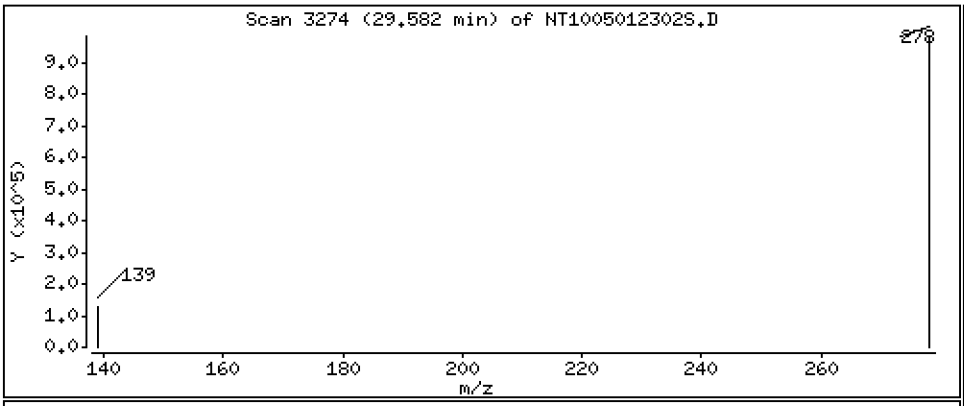
Operator: JGR

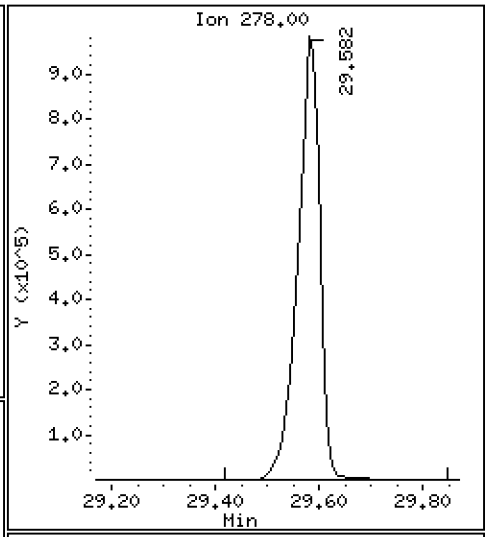
Column phase: ZB-5msi

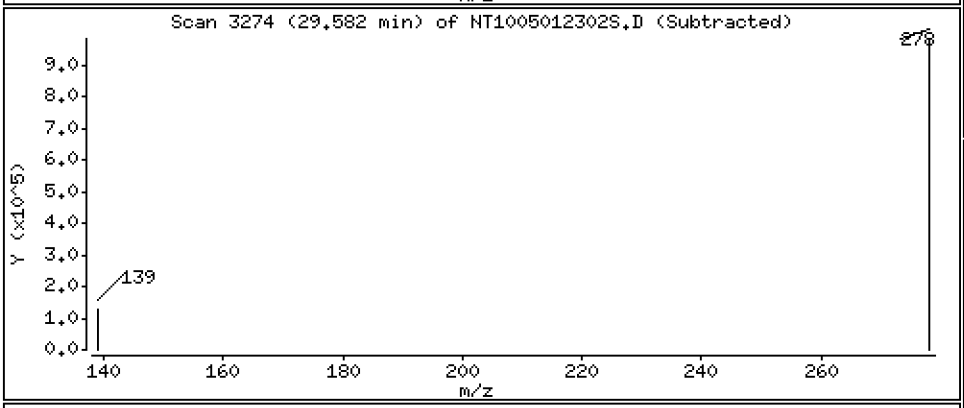
Column diameter: 0.25

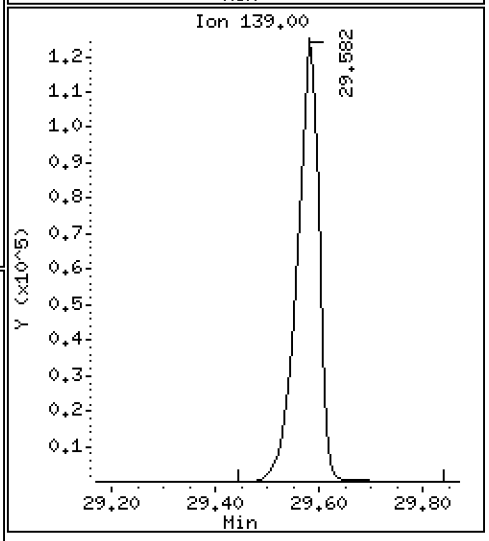
79 Dibenzo(a,h)anthracene

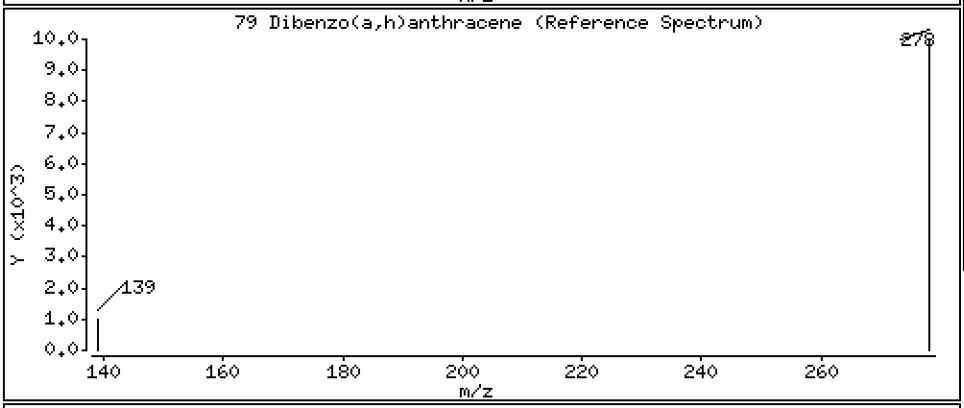
Concentration: 25.04 ug/L

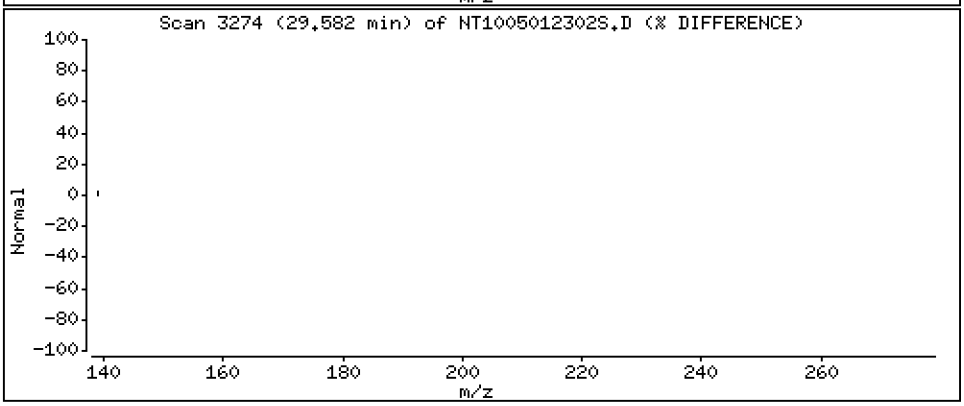












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123025.D

Date : 01-MAY-2023 14:52

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

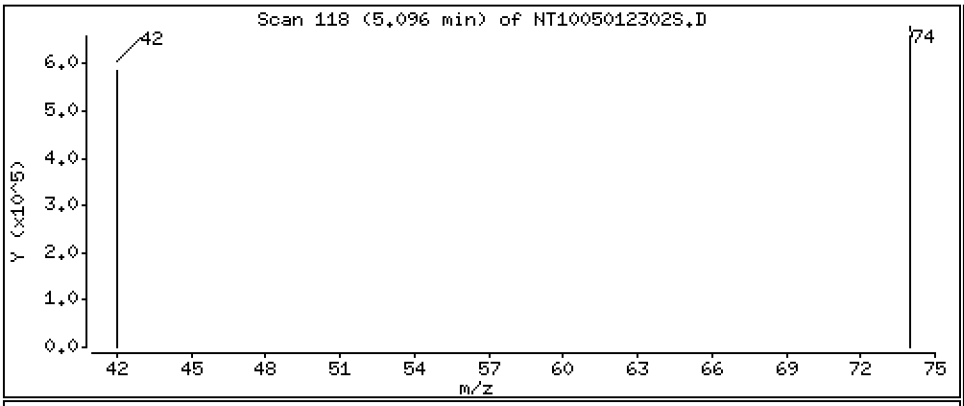
Operator: JGR

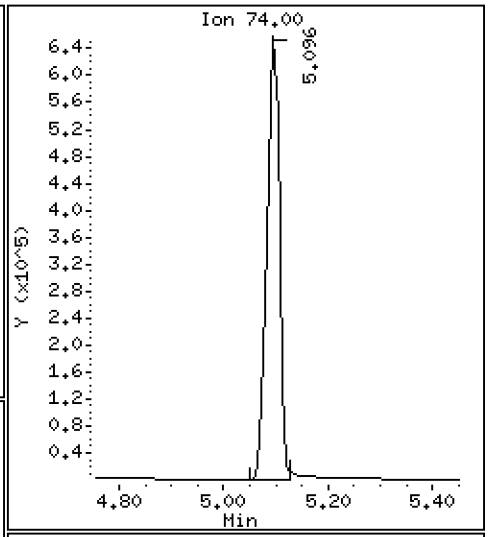
Column phase: ZB-5msi

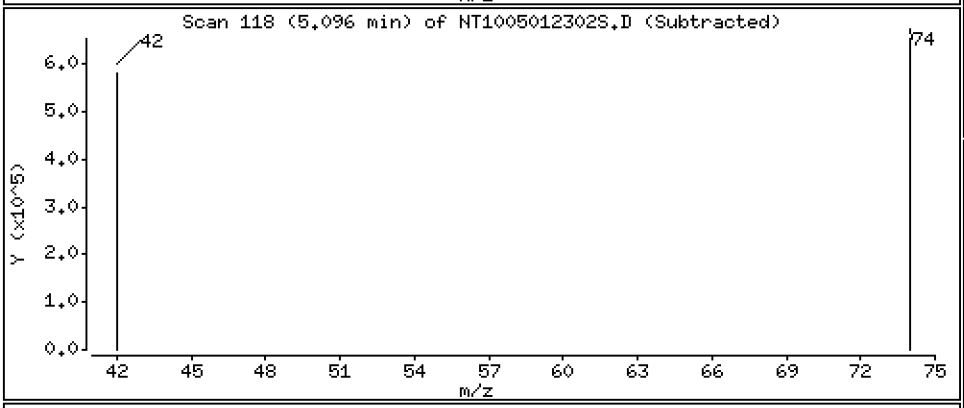
Column diameter: 0.25

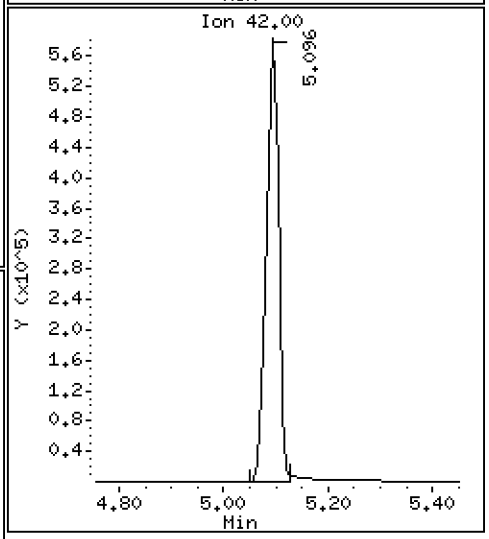
90 N-Nitrosodimethylamine

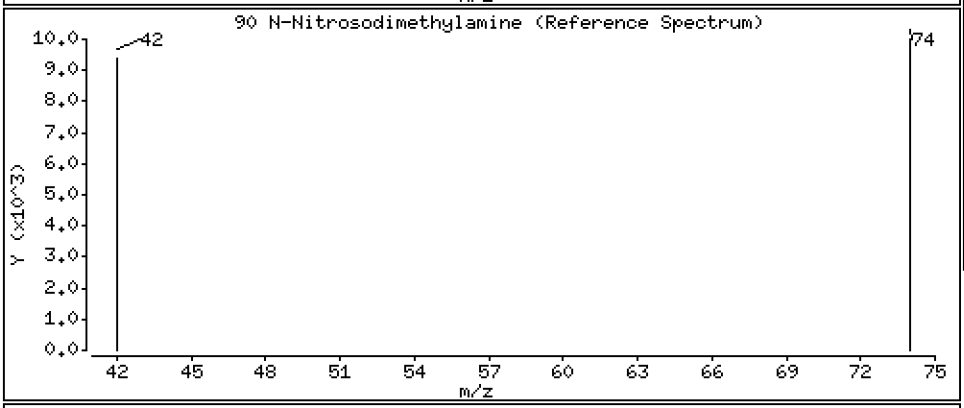
Concentration: 38.39 ug/L

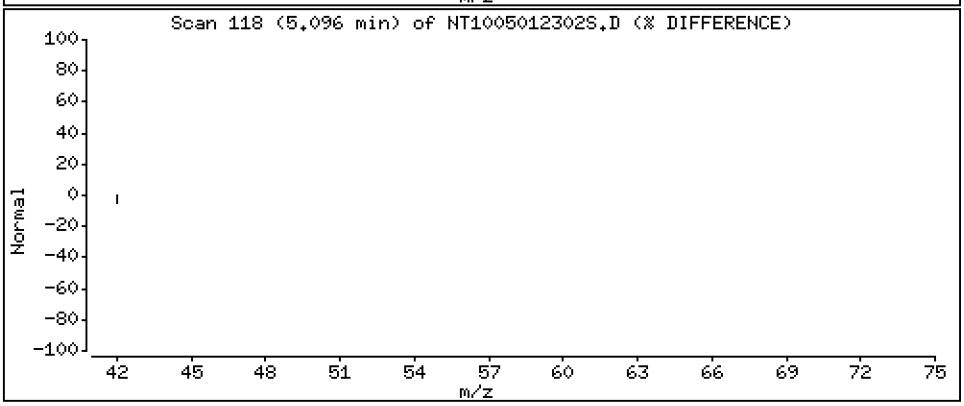












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012302S.D
Lab Smp Id: SLE0082-CAL7
Inj Date : 01-MAY-2023 14:52 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL7
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.762)	1463043	29.6579	29.66(R)
3	Phenol	94	8.858	8.842	(0.932)	1188265	19.2297	19.23
7	1,3-Dichlorobenzene	146	9.438	9.430	(0.993)	1206206	18.5608	18.56
* 8	1,4-Dichlorobenzene-d4	152	9.500	9.492	(1.000)	161940	4.00000	
9	1,4-Dichlorobenzene	146	9.531	9.523	(1.003)	1197749	18.6089	18.61
11	Benzyl alcohol	79	9.763	9.756	(1.028)	919720	21.5226	21.52
12	1,2-Dichlorobenzene	146	9.888	9.880	(1.041)	1172234	18.9353	18.94
13	2-Methylphenol	108	9.973	9.965	(1.050)	945690	20.4492	20.45
15	4-Methylphenol	108	10.253	10.237	(1.079)	1025544	21.0909	21.09
16	N-Nitroso-di-n-propylamine	70	10.338	10.315	(1.088)	688959	19.6369	19.64
22	2,4-Dimethylphenol	107	10.253	10.229	(0.855)	1229578	36.8045	36.80
24	Benzoic acid	105	11.636	11.373	(0.970)	3600871	60.2865	60.29
26	1,2,4-Trichlorobenzene	180	11.911	11.896	(0.993)	1131696	19.0018	19.00
* 27	Naphthalene-d8	136	11.996	11.988	(1.000)	584241	4.00000	
30	Hexachlorobutadiene	225	12.390	12.382	(1.033)	747871	19.6669	19.67
39	Dimethylphthalate	163	15.130	15.107	(0.968)	2180710	19.5399	19.54
* 42	Acenaphthene-d10	162	15.633	15.617	(1.000)	294407	4.00000	
50	Diethylphthalate	149	16.591	16.560	(1.061)	2514041	20.9797	20.98
54	N-Nitrosodiphenylamine	169	16.985	16.962	(0.909)	1673298	20.4417	20.44
57	Hexachlorobenzene	284	18.057	18.042	(0.966)	809166	20.1857	20.19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.413	18.398	(0.986)	1332267	29.7897	29.79
*	59 Phenanthrene-d10	188	18.684	18.677	(1.000)	627672	4.00000	
$	66 Terphenyl-d14	244	21.795	21.779	(0.919)	2377769	21.0038	21.00(R)
	67 Butylbenzylphthalate	149	22.708	22.693	(0.958)	1787693	15.6087	15.61
*	69 Chrysene-d12	240	23.715	23.692	(1.000)	525013	4.00000	
*	77 Perylene-d12	264	26.556	26.533	(1.000)	352006	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.581	29.519	(1.114)	2844643	25.0354	25.04
	90 N-Nitrosodimethylamine	74	5.095	5.103	(0.536)	1033038	38.3866	38.39

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012302S.D
Lab Smp Id: SLE0082-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	161940	-4.28
27 Naphthalene-d8	594924	297462	1189848	584241	-1.80
42 Acenaphthene-d10	304980	152490	609960	294407	-3.47
59 Phenanthrene-d10	609190	304595	1218380	627672	3.03
69 Chrysene-d12	479061	239531	958122	525013	9.59
77 Perylene-d12	427162	213581	854324	352006	-17.59

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	0.00
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.07
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.04
69 Chrysene-d12	23.70	23.20	24.20	23.72	0.07
77 Perylene-d12	26.54	26.04	27.04	26.56	0.06

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

REVIEW SUMMARY FOR FILE - NT1005012302S.D

Lab ID: SLE0082-CAL7
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 14:52

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.970	0.949	0.0213	Benzoic acid

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123033.D

Date : 01-MAY-2023 15:31

Client ID:

Instrument: nt10.i

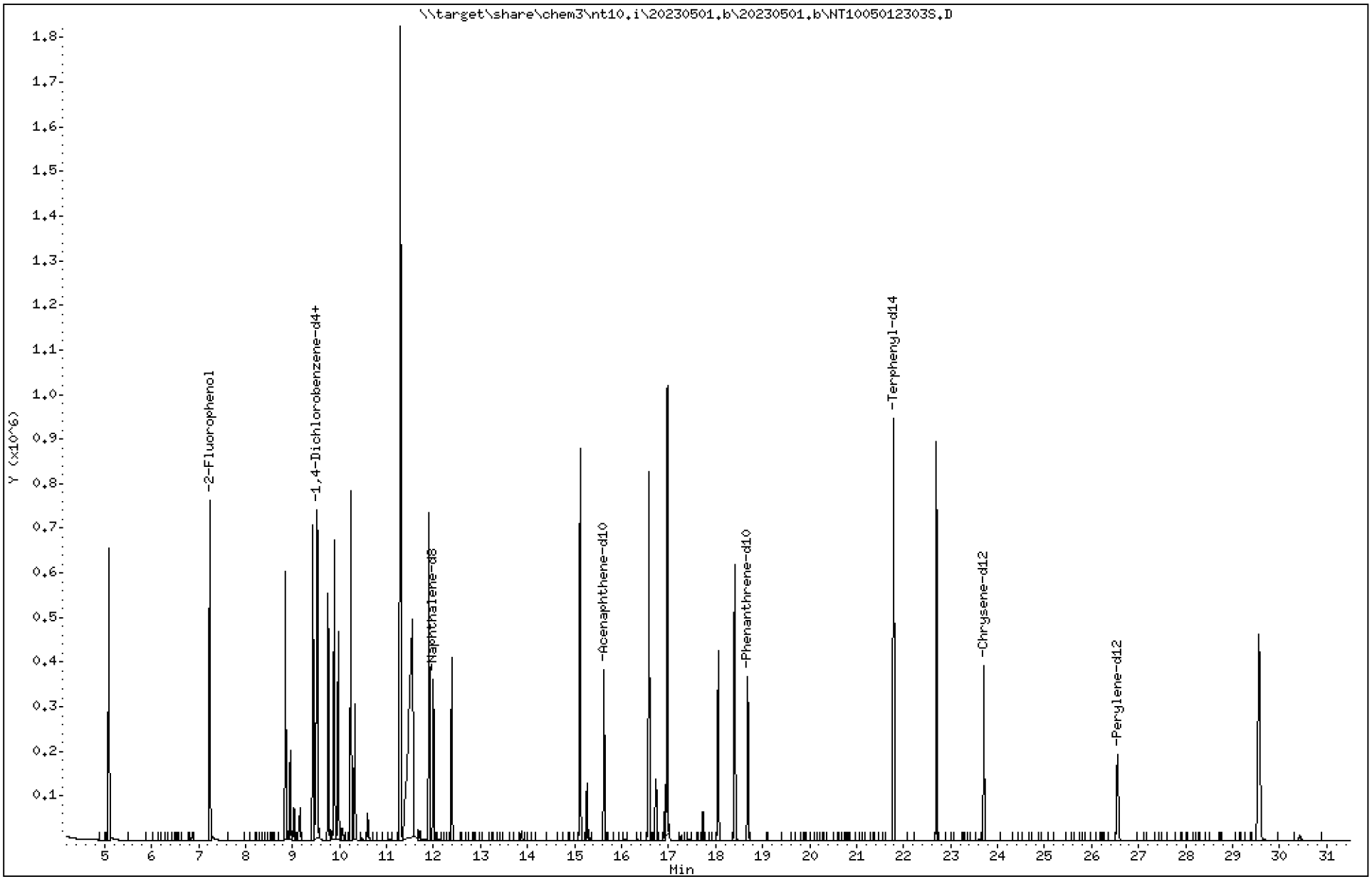
Sample Info: SLE0082-CAL8

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1760 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012303S.D
Lab Smp Id: SLE0082-CAL8
Inj Date : 01-MAY-2023 15:31 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL8
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 15:31 Cal File: NT1005012303S.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.243	7.243	(0.763)	789777	15.0000	16.05
	3 Phenol	94	8.850	8.842	(0.932)	632578	10.0000	10.26
	7 1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	632614	10.0000	9.760
*	8 1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	161514	4.00000	
	9 1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	636095	10.0000	9.909
	11 Benzyl alcohol	79	9.755	9.756	(1.028)	492480	10.0000	11.56
	12 1,2-Dichlorobenzene	146	9.887	9.880	(1.042)	609485	10.0000	9.871
	13 2-Methylphenol	108	9.973	9.965	(1.051)	494524	10.0000	10.72
	15 4-Methylphenol	108	10.237	10.237	(1.079)	538161	10.0000	11.10
	16 N-Nitroso-di-n-propylamine	70	10.322	10.315	(1.088)	369443	10.0000	10.56
	22 2,4-Dimethylphenol	107	10.237	10.229	(0.853)	650741	20.0000	19.95
	24 Benzoic acid	105	11.551	11.373	(0.963)	1817498	40.0000	39.96
	26 1,2,4-Trichlorobenzene	180	11.903	11.896	(0.992)	580931	10.0000	9.990
*	27 Naphthalene-d8	136	11.996	11.988	(1.000)	570419	4.00000	
	30 Hexachlorobutadiene	225	12.390	12.382	(1.033)	385415	10.0000	10.38
	39 Dimethylphthalate	163	15.114	15.107	(0.967)	1141674	10.0000	10.30
*	42 Acenaphthene-d10	162	15.625	15.617	(1.000)	292457	4.00000	
	50 Diethylphthalate	149	16.583	16.560	(1.061)	1304302	10.0000	10.96
	54 N-Nitrosodiphenylamine	169	16.977	16.962	(0.909)	831619	10.0000	10.25
	57 Hexachlorobenzene	284	18.049	18.042	(0.966)	391591	10.0000	9.858

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.406	18.398	(0.985)	601621	20.0000	19.97
*	59 Phenanthrene-d10	188	18.684	18.677	(1.000)	621963	4.00000	
$	66 Terphenyl-d14	244	21.787	21.779	(0.919)	1132885	10.0000	11.42
	67 Butylbenzylphthalate	149	22.700	22.693	(0.958)	909576	10.0000	9.982
*	69 Chrysene-d12	240	23.707	23.692	(1.000)	460111	4.00000	
*	77 Perylene-d12	264	26.548	26.533	(1.000)	359500	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.558	29.519	(1.113)	1323489	10.0000	11.41
	90 N-Nitrosodimethylamine	74	5.087	5.103	(0.536)	565863	20.0000	21.08

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012303S.D
Lab Smp Id: SLE0082-CAL8
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	161514	-4.53
27 Naphthalene-d8	594924	297462	1189848	570419	-4.12
42 Acenaphthene-d10	304980	152490	609960	292457	-4.11
59 Phenanthrene-d10	609190	304595	1218380	621963	2.10
69 Chrysene-d12	479061	239531	958122	460111	-3.96
77 Perylene-d12	427162	213581	854324	359500	-15.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	-0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.04
69 Chrysene-d12	23.70	23.20	24.20	23.71	0.03
77 Perylene-d12	26.54	26.04	27.04	26.55	0.03

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

REVIEW SUMMARY FOR FILE - NT1005012303S.D

Lab ID: SLE0082-CAL8
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 15:31

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.949	0.0142	Benzoic acid

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123048.D

Date : 01-MAY-2023 16:10

Client ID:

Instrument: nt10.i

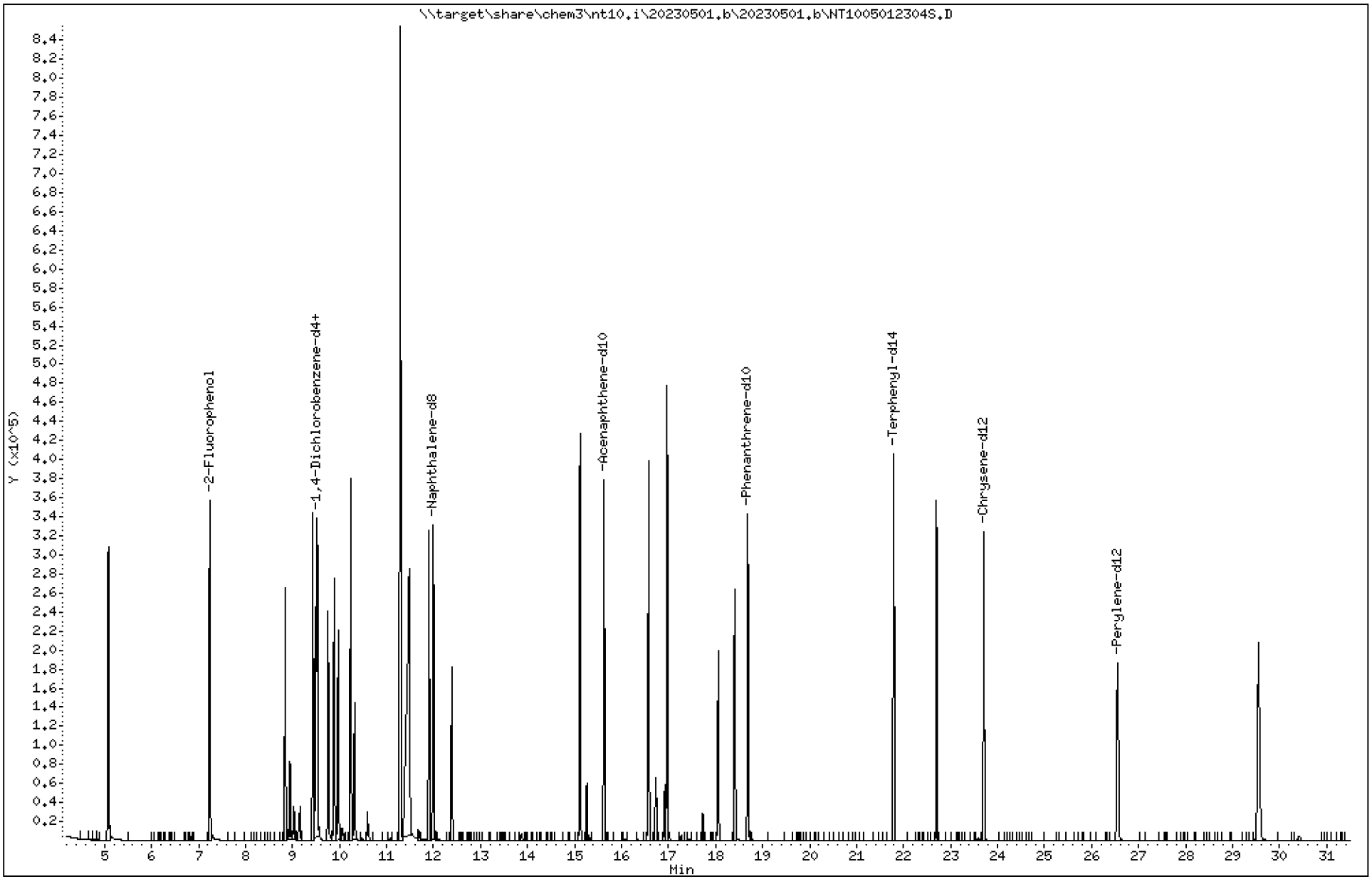
Sample Info: SLE0082-CAL7

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1765 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012304S.D
Lab Smp Id: SLE0082-CAL7
Inj Date : 01-MAY-2023 16:10 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL7
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 16:10 Cal File: NT1005012304S.D
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	355373	7.50000	7.668
3	Phenol	94	8.842	8.842	(0.932)	287113	5.00000	4.946
7	1,3-Dichlorobenzene	146	9.429	9.430	(0.993)	289727	5.00000	4.746
* 8	1,4-Dichlorobenzene-d4	152	9.491	9.492	(1.000)	152136	4.00000	
9	1,4-Dichlorobenzene	146	9.522	9.523	(1.003)	287152	5.00000	4.749
11	Benzyl alcohol	79	9.755	9.756	(1.028)	218338	5.00000	5.439
12	1,2-Dichlorobenzene	146	9.879	9.880	(1.041)	275881	5.00000	4.744
13	2-Methylphenol	108	9.965	9.965	(1.050)	223851	5.00000	5.152
15	4-Methylphenol	108	10.237	10.237	(1.079)	241913	5.00000	5.296
16	N-Nitroso-di-n-propylamine	70	10.314	10.315	(1.087)	168705	5.00000	5.118
22	2,4-Dimethylphenol	107	10.237	10.229	(0.853)	297911	10.0000	9.689
24	Benzoic acid	105	11.483	11.373	(0.957)	768216	20.0000	20.24
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.992)	259857	5.00000	4.741
* 27	Naphthalene-d8	136	11.996	11.988	(1.000)	537687	4.00000	
30	Hexachlorobutadiene	225	12.390	12.382	(1.033)	171899	5.00000	4.912
39	Dimethylphthalate	163	15.114	15.107	(0.967)	522429	5.00000	4.974
* 42	Acenaphthene-d10	162	15.625	15.617	(1.000)	277062	4.00000	
50	Diethylphthalate	149	16.575	16.560	(1.061)	592090	5.00000	5.250
54	N-Nitrosodiphenylamine	169	16.969	16.962	(0.908)	370583	5.00000	5.082
57	Hexachlorobenzene	284	18.057	18.042	(0.966)	173597	5.00000	4.861

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.405	18.398	(0.985)	240737	10.0000	10.21
*	59 Phenanthrene-d10	188	18.684	18.677	(1.000)	559131	4.00000	
$	66 Terphenyl-d14	244	21.786	21.779	(0.919)	482522	5.00000	5.469
	67 Butylbenzylphthalate	149	22.700	22.693	(0.958)	387291	5.00000	5.097
*	69 Chrysene-d12	240	23.707	23.692	(1.000)	409150	4.00000	
*	77 Perylene-d12	264	26.556	26.533	(1.000)	347622	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.550	29.519	(1.113)	587048	5.00000	5.232
	90 N-Nitrosodimethylamine	74	5.080	5.103	(0.535)	256258	10.0000	10.14

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012304S.D
Lab Smp Id: SLE0082-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	152136	-10.07
27 Naphthalene-d8	594924	297462	1189848	537687	-9.62
42 Acenaphthene-d10	304980	152490	609960	277062	-9.15
59 Phenanthrene-d10	609190	304595	1218380	559131	-8.22
69 Chrysene-d12	479061	239531	958122	409150	-14.59
77 Perylene-d12	427162	213581	854324	347622	-18.62

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.06
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	-0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.04
69 Chrysene-d12	23.70	23.20	24.20	23.71	0.03
77 Perylene-d12	26.54	26.04	27.04	26.56	0.06

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

REVIEW SUMMARY FOR FILE - NT1005012304S.D

Lab ID: SLE0082-CAL7
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 16:10

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.957	0.949	0.0086	Benzoic acid

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123055.D

Date : 01-MAY-2023 16:49

Client ID:

Instrument: nt10.i

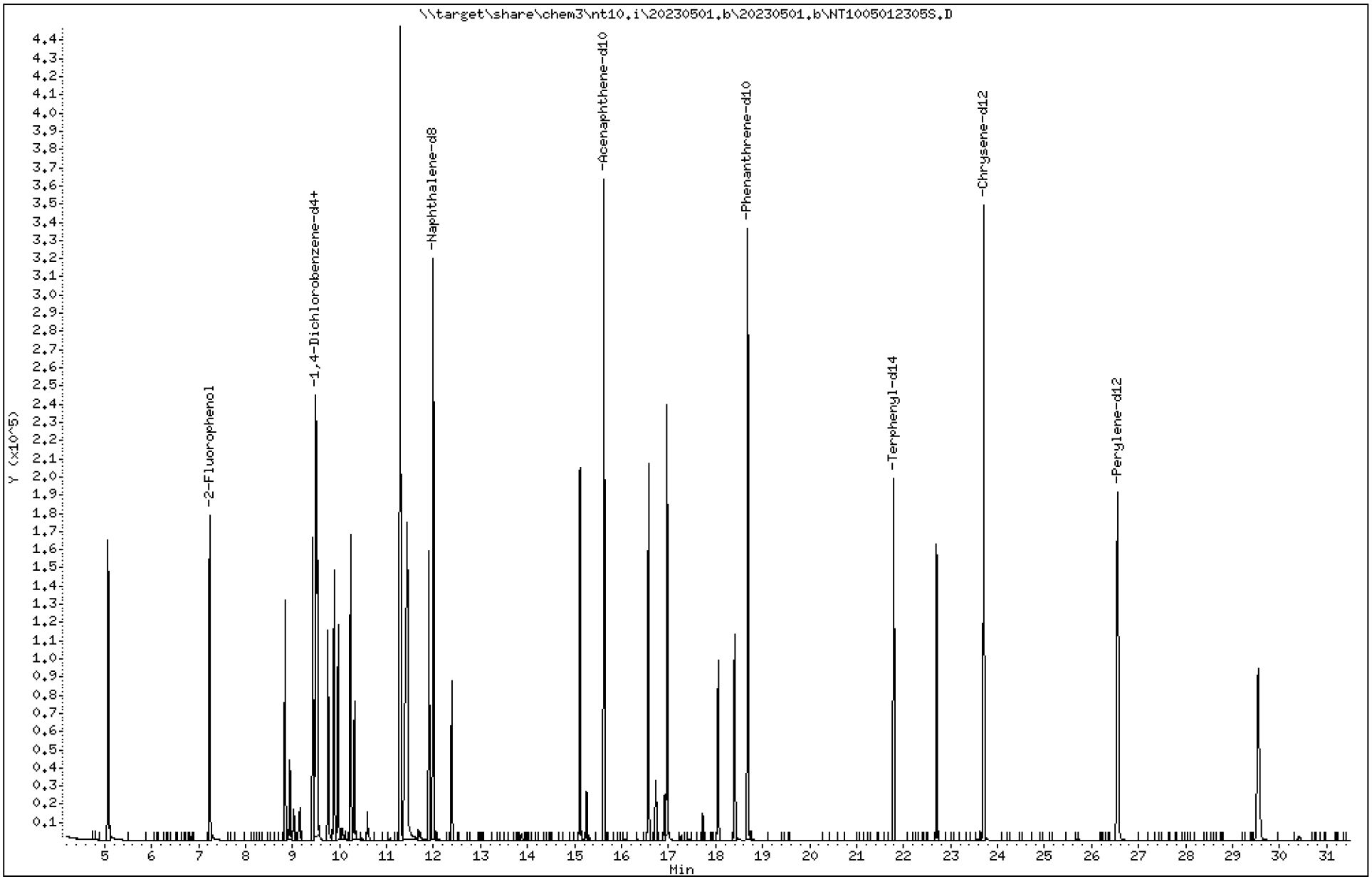
Sample Info: SLE0082-CAL6

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1770 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012305S.D
Lab Smp Id: SLE0082-CAL6
Inj Date : 01-MAY-2023 16:49 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL6
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 16:49 Cal File: NT1005012305S.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	180445	3.75000	3.953
3	Phenol	94	8.842	8.842	(0.932)	146423	2.50000	2.561
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	146851	2.50000	2.442
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	149844	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	145166	2.50000	2.437
11	Benzyl alcohol	79	9.748	9.756	(1.027)	107553	2.50000	2.720
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	140678	2.50000	2.456
13	2-Methylphenol	108	9.965	9.965	(1.050)	110845	2.50000	2.590
15	4-Methylphenol	108	10.237	10.237	(1.079)	120196	2.50000	2.671
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	84584	2.50000	2.605
22	2,4-Dimethylphenol	107	10.229	10.229	(0.853)	148273	5.00000	4.989
24	Benzoic acid	105	11.441	11.373	(0.954)	348393	10.0000	9.969
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.993)	130105	2.50000	2.456
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	519732	4.00000	
30	Hexachlorobutadiene	225	12.390	12.382	(1.033)	85525	2.50000	2.528
39	Dimethylphthalate	163	15.114	15.107	(0.967)	261641	2.50000	2.531
* 42	Acenaphthene-d10	162	15.625	15.617	(1.000)	272727	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.060)	294560	2.50000	2.654
54	N-Nitrosodiphenylamine	169	16.969	16.962	(0.908)	187950	2.50000	2.556
57	Hexachlorobenzene	284	18.049	18.042	(0.966)	87481	2.50000	2.429

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.406	18.398	(0.985)	108836	5.00000	4.839
*	59 Phenanthrene-d10	188	18.684	18.677	(1.000)	563850	4.00000	
$	66 Terphenyl-d14	244	21.787	21.779	(0.919)	238803	2.50000	2.645
	67 Butylbenzylphthalate	149	22.700	22.693	(0.958)	183179	2.50000	2.429
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	418693	4.00000	
*	77 Perylene-d12	264	26.548	26.533	(1.000)	365369	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.542	29.519	(1.113)	292954	2.50000	2.484
	90 N-Nitrosodimethylamine	74	5.072	5.103	(0.534)	132028	5.00000	5.302

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012305S.D
Lab Smp Id: SLE0082-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	149844	-11.43
27 Naphthalene-d8	594924	297462	1189848	519732	-12.64
42 Acenaphthene-d10	304980	152490	609960	272727	-10.58
59 Phenanthrene-d10	609190	304595	1218380	563850	-7.44
69 Chrysene-d12	479061	239531	958122	418693	-12.60
77 Perylene-d12	427162	213581	854324	365369	-14.47

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.04
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.55	0.03

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

REVIEW SUMMARY FOR FILE - NT1005012305S.D

Lab ID: SLE0082-CAL6
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 16:49

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.949	0.0057	Benzoic acid

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123068.D

Date : 01-MAY-2023 17:28

Client ID:

Instrument: nt10.i

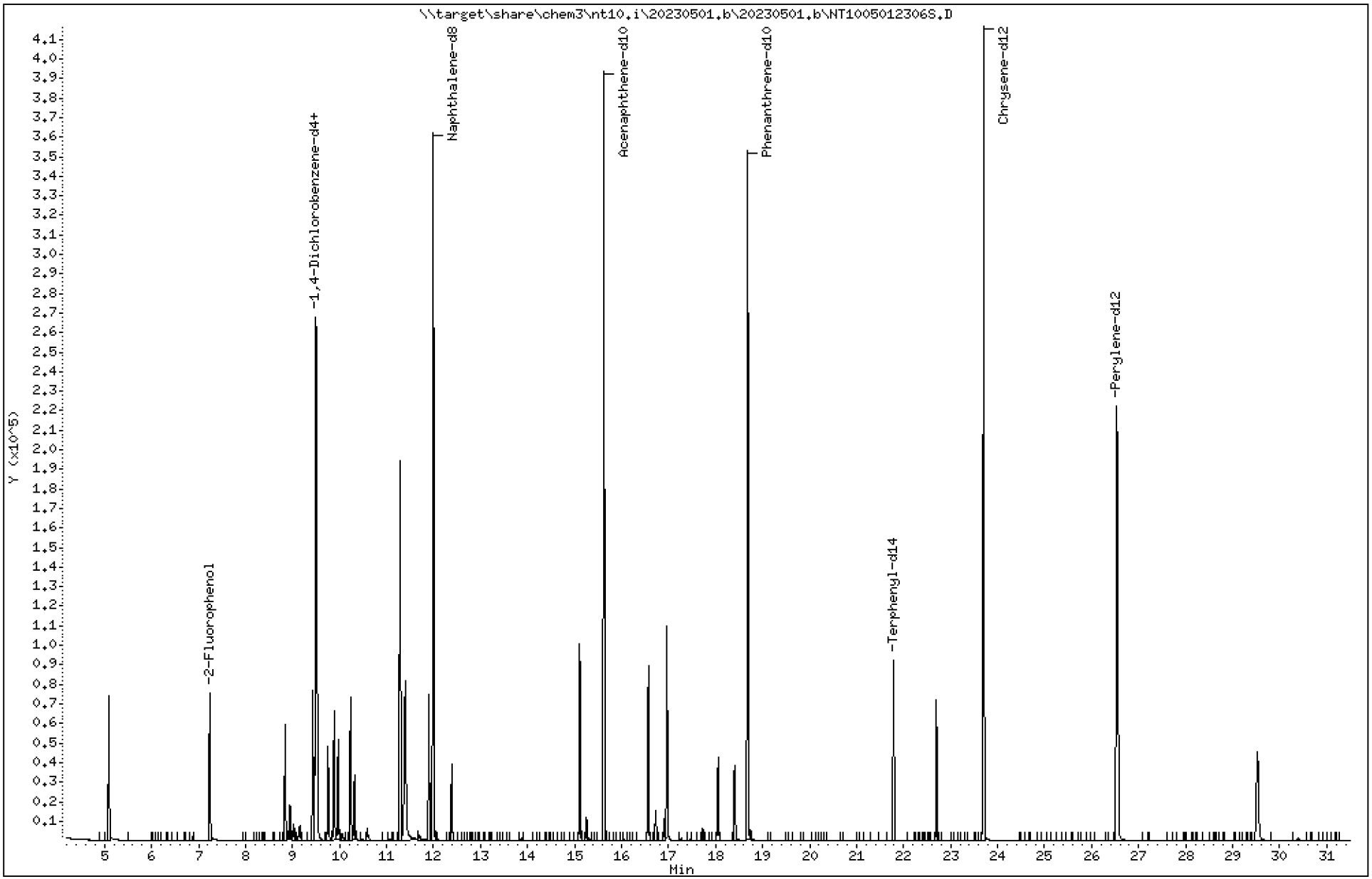
Sample Info: SLE0082-CAL5

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012306S.D
Lab Smp Id: SLE0082-CAL5
Inj Date : 01-MAY-2023 17:28 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL5
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 17:28 Cal File: NT1005012306S.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.235	7.243	(0.762)	79958	1.50000	1.552
	3 Phenol	94	8.842	8.842	(0.931)	66299	1.00000	1.027
	7 1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	67357	1.00000	0.9922
*	8 1,4-Dichlorobenzene-d4	152	9.499	9.492	(1.000)	169173	4.00000	
	9 1,4-Dichlorobenzene	146	9.523	9.523	(1.002)	66002	1.00000	0.9816
	11 Benzyl alcohol	79	9.755	9.756	(1.027)	46490	1.00000	1.041
	12 1,2-Dichlorobenzene	146	9.880	9.880	(1.040)	64463	1.00000	0.9968
	13 2-Methylphenol	108	9.965	9.965	(1.049)	49496	1.00000	1.025
	15 4-Methylphenol	108	10.229	10.237	(1.077)	52703	1.00000	1.038
	16 N-Nitroso-di-n-propylamine	70	10.314	10.315	(1.086)	37523	1.00000	1.024
	22 2,4-Dimethylphenol	107	10.229	10.229	(0.853)	66119	2.00000	1.944
	24 Benzoic acid	105	11.398	11.373	(0.951)	135982	4.00000	3.493
	26 1,2,4-Trichlorobenzene	180	11.903	11.896	(0.993)	59469	1.00000	0.9806
*	27 Naphthalene-d8	136	11.988	11.988	(1.000)	594924	4.00000	
	30 Hexachlorobutadiene	225	12.390	12.382	(1.033)	38154	1.00000	0.9853
	39 Dimethylphthalate	163	15.106	15.107	(0.967)	118423	1.00000	1.024
*	42 Acenaphthene-d10	162	15.625	15.617	(1.000)	304980	4.00000	
	50 Diethylphthalate	149	16.568	16.560	(1.060)	128613	1.00000	1.036
	54 N-Nitrosodiphenylamine	169	16.961	16.962	(0.908)	84379	1.00000	1.062
	57 Hexachlorobenzene	284	18.049	18.042	(0.966)	38511	1.00000	0.9899

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.406	18.398	(0.986)	41389	2.00000	1.752
*	59 Phenanthrene-d10	188	18.676	18.677	(1.000)	609190	4.00000	
$	66 Terphenyl-d14	244	21.787	21.779	(0.919)	107789	1.00000	1.043
	67 Butylbenzylphthalate	149	22.700	22.693	(0.958)	76654	1.00000	0.9027
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	479061	4.00000	
*	77 Perylene-d12	264	26.540	26.533	(1.000)	427162	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.527	29.519	(1.113)	140663	1.00000	1.020
	90 N-Nitrosodimethylamine	74	5.087	5.103	(0.536)	58388	2.00000	2.077

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012306S.D
Lab Smp Id: SLE0082-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	169173	0.00
27 Naphthalene-d8	594924	297462	1189848	594924	0.00
42 Acenaphthene-d10	304980	152490	609960	304980	0.00
59 Phenanthrene-d10	609190	304595	1218380	609190	0.00
69 Chrysene-d12	479061	239531	958122	479061	0.00
77 Perylene-d12	427162	213581	854324	427162	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.50	0.00
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.54	0.00

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

REVIEW SUMMARY FOR FILE - NT1005012306S.D

Lab ID: SLE0082-CAL5
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 17:28

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123075.D

Date : 01-MAY-2023 18:07

Client ID:

Instrument: nt10.i

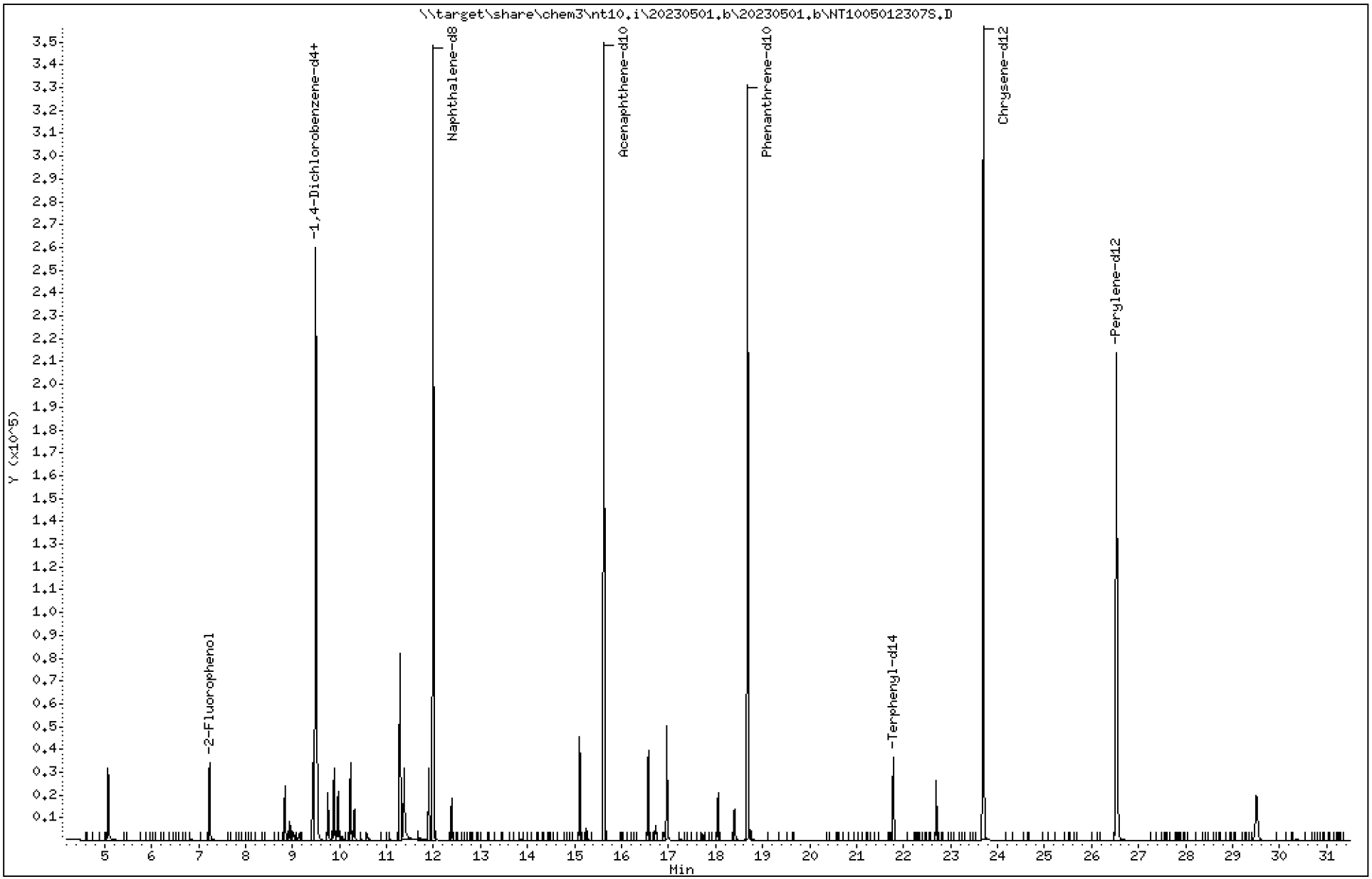
Sample Info: SLE0082-CAL4

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1780 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012307S.D
Lab Smp Id: SLE0082-CAL4
Inj Date : 01-MAY-2023 18:07 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL4
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:07 Cal File: NT1005012307S.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	35775	0.75000	0.7614
3	Phenol	94	8.835	8.842	(0.931)	30083	0.50000	0.5111
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	31382	0.50000	0.5070
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	154252	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	30867	0.50000	0.5035
11	Benzyl alcohol	79	9.748	9.756	(1.027)	19804	0.50000	0.4865
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	29894	0.50000	0.5070
13	2-Methylphenol	108	9.965	9.965	(1.050)	22245	0.50000	0.5050
15	4-Methylphenol	108	10.229	10.237	(1.078)	23240	0.50000	0.5018
16	N-Nitroso-di-n-propylamine	70	10.307	10.315	(1.086)	16616	0.50000	0.4972
22	2,4-Dimethylphenol	107	10.229	10.229	(0.853)	29770	1.00000	0.9576
24	Benzoic acid	105	11.373	11.373	(0.949)	45881	2.00000	1.301
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	27559	0.50000	0.4973
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	543651	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	17366	0.50000	0.4908
39	Dimethylphthalate	163	15.106	15.107	(0.967)	52308	0.50000	0.4974
* 42	Acenaphthene-d10	162	15.625	15.617	(1.000)	277425	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.060)	56077	0.50000	0.4966
54	N-Nitrosodiphenylamine	169	16.962	16.962	(0.908)	37238	0.50000	0.5167
57	Hexachlorobenzene	284	18.049	18.042	(0.966)	17690	0.50000	0.5012

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.406	18.398	(0.986)	15280	1.00000	0.7193
*	59 Phenanthrene-d10	188	18.676	18.677	(1.000)	552604	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	45858	0.50000	0.4867
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	30054	0.50000	0.3900
*	69 Chrysene-d12	240	23.692	23.692	(1.000)	436983	4.00000	
*	77 Perylene-d12	264	26.533	26.533	(1.000)	398475	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.511	29.519	(1.112)	63394	0.50000	0.4929
	90 N-Nitrosodimethylamine	74	5.072	5.103	(0.534)	26317	1.00000	1.027

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 01-MAY-2023
Lab File ID: NT1005012307S.D Calibration Time: 17:28
Lab Smp Id: SLE0082-CAL4
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: AIR
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	154252	-8.82
27 Naphthalene-d8	594924	297462	1189848	543651	-8.62
42 Acenaphthene-d10	304980	152490	609960	277425	-9.04
59 Phenanthrene-d10	609190	304595	1218380	552604	-9.29
69 Chrysene-d12	479061	239531	958122	436983	-8.78
77 Perylene-d12	427162	213581	854324	398475	-6.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.63	0.00
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005012307S.D

Lab ID: SLE0082-CAL4
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 18:07

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123085.D

Date : 01-MAY-2023 18:46

Client ID:

Instrument: nt10.i

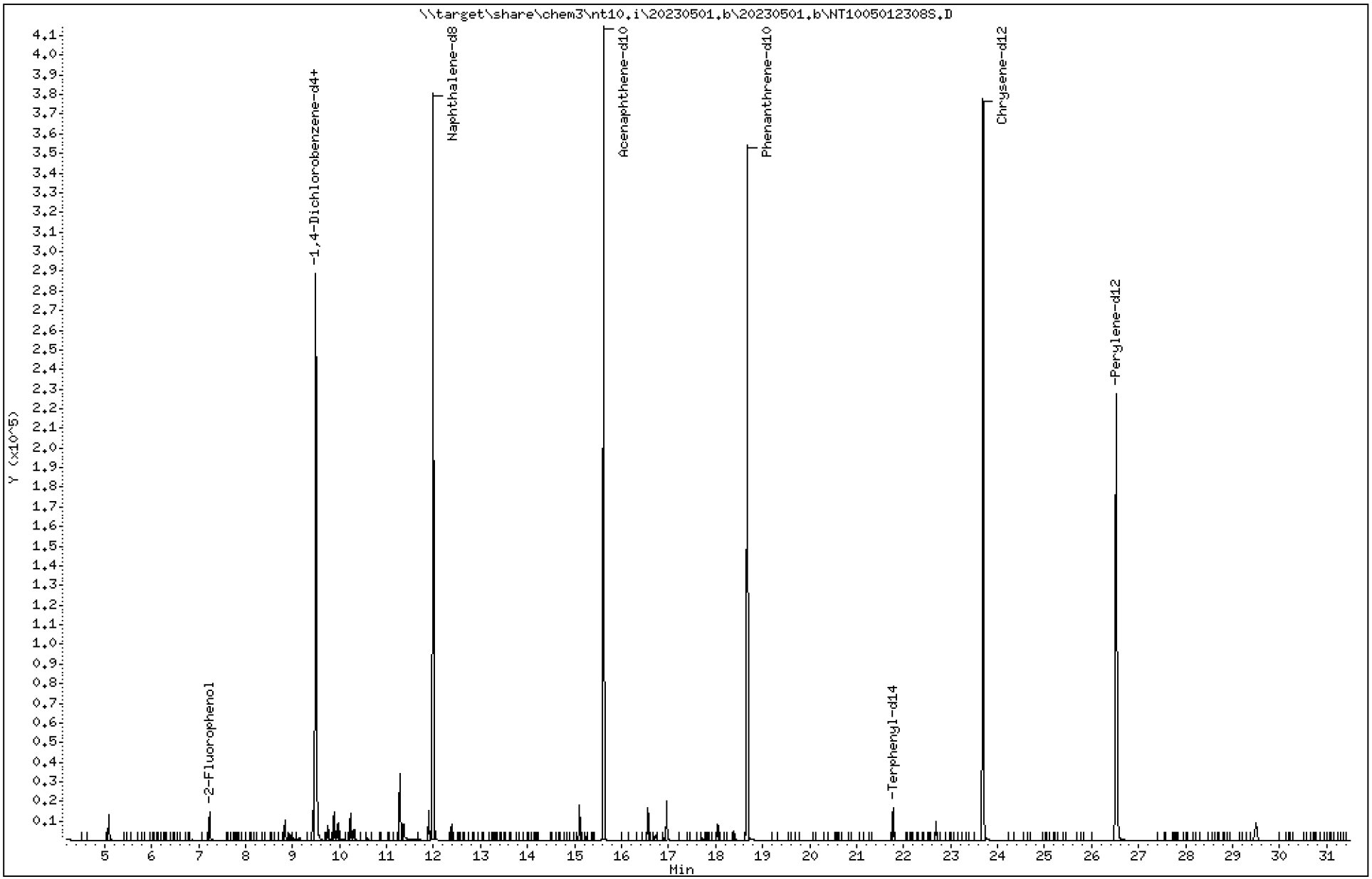
Sample Info: SLE0082-CAL3

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1785 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012308S.D
Lab Smp Id: SLE0082-CAL3
Inj Date : 01-MAY-2023 18:46 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL3
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 18:46 Cal File: NT1005012308S.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	15557	0.30000	0.2938
3	Phenol	94	8.842	8.842	(0.932)	13361	0.20000	0.2014
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	14289	0.20000	0.2048
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	173835	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	13980	0.20000	0.2023
11	Benzyl alcohol	79	9.748	9.756	(1.027)	8388	0.20000	0.1829
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	13480	0.20000	0.2028
13	2-Methylphenol	108	9.965	9.965	(1.050)	9328	0.20000	0.1879
15	4-Methylphenol	108	10.229	10.237	(1.078)	9851	0.20000	0.1887
16	N-Nitroso-di-n-propylamine	70	10.307	10.315	(1.086)	7050	0.20000	0.1872
22	2,4-Dimethylphenol	107	10.229	10.229	(0.853)	13229	0.40000	0.3799
24	Benzoic acid	105	11.356	11.373	(0.947)	12899	0.80000	0.3278
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	12552	0.20000	0.2022
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	608907	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	7788	0.20000	0.1965
39	Dimethylphthalate	163	15.099	15.107	(0.967)	22163	0.20000	0.1922
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	304177	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	23195	0.20000	0.1873
54	N-Nitrosodiphenylamine	169	16.954	16.962	(0.908)	15508	0.20000	0.1993
57	Hexachlorobenzene	284	18.042	18.042	(0.966)	7706	0.20000	0.2023

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.398	18.398	(0.985)	5411	0.40000	0.2369
*	59 Phenanthrene-d10	188	18.669	18.677	(1.000)	596590	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	19576	0.20000	0.1873
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	11132	0.20000	0.1306
*	69 Chrysene-d12	240	23.691	23.692	(1.000)	484703	4.00000	
*	77 Perylene-d12	264	26.525	26.533	(1.000)	440507	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.496	29.519	(1.112)	27543	0.20000	0.1937
	90 N-Nitrosodimethylamine	74	5.088	5.103	(0.536)	11507	0.40000	0.3983

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012308S.D
Lab Smp Id: SLE0082-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	173835	2.76
27 Naphthalene-d8	594924	297462	1189848	608907	2.35
42 Acenaphthene-d10	304980	152490	609960	304177	-0.26
59 Phenanthrene-d10	609190	304595	1218380	596590	-2.07
69 Chrysene-d12	479061	239531	958122	484703	1.18
77 Perylene-d12	427162	213581	854324	440507	3.12

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.06

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

REVIEW SUMMARY FOR FILE - NT1005012308S.D

Lab ID: SLE0082-CAL3
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 18:46

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123095.D

Date : 01-MAY-2023 19:25

Client ID:

Instrument: nt10.i

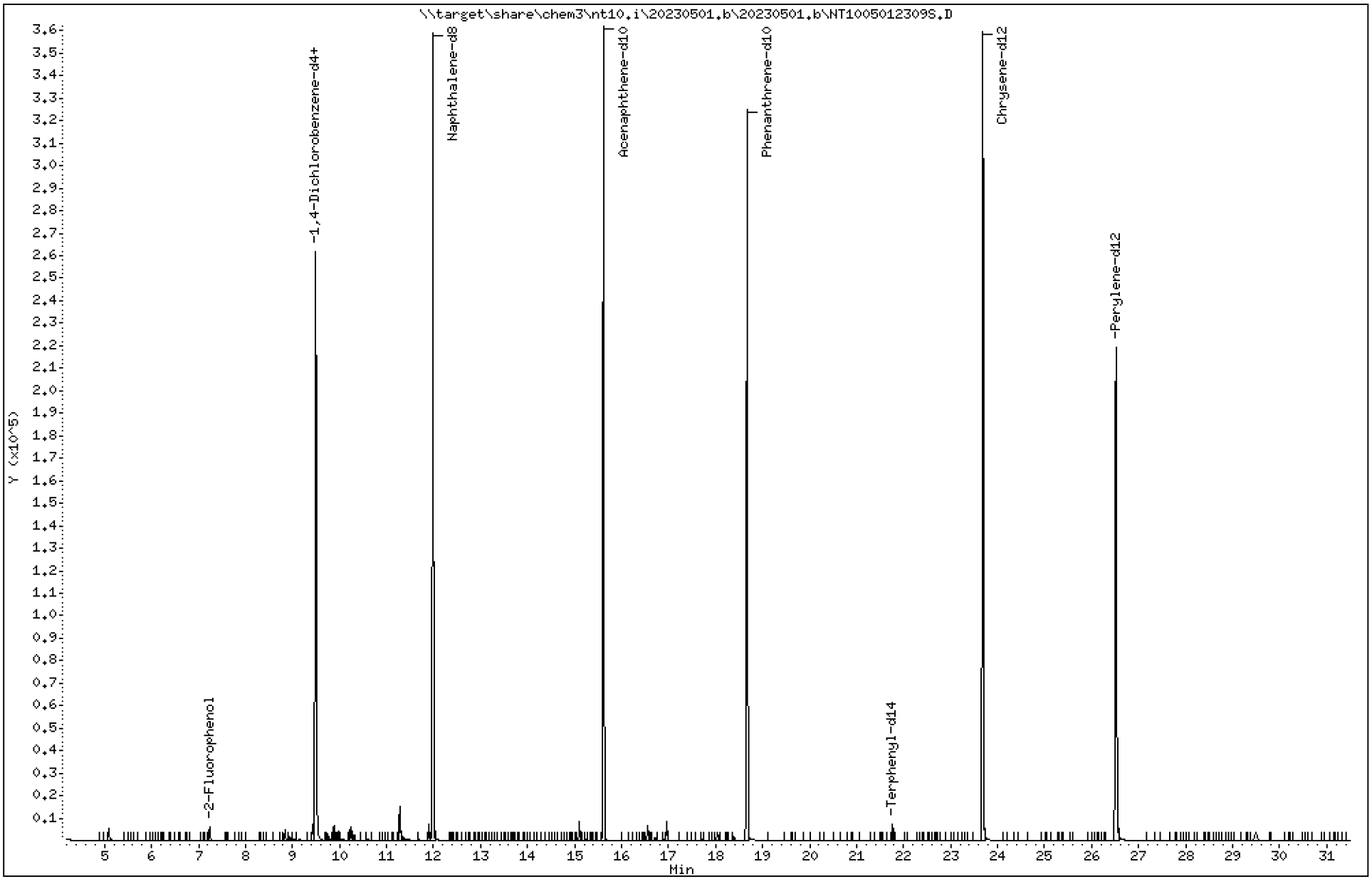
Sample Info: SLE0082-CAL2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1790 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012309S.D
Lab Smp Id: SLE0082-CAL2
Inj Date : 01-MAY-2023 19:25 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 19:25 Cal File: NT1005012309S.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.235	7.243	(0.762)	6926	0.15000	0.1404
	3 Phenol	94	8.842	8.842	(0.932)	5892	0.10000	0.09536
	7 1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	6714	0.10000	0.1033
*	8 1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	161930	4.00000	
	9 1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	6849	0.10000	0.1064
	11 Benzyl alcohol	79	9.756	9.756	(1.028)	3711	0.10000	0.08685
	12 1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	6309	0.10000	0.1019
	13 2-Methylphenol	108	9.965	9.965	(1.050)	4221	0.10000	0.09128
	15 4-Methylphenol	108	10.229	10.237	(1.078)	4406	0.10000	0.09062
	16 N-Nitroso-di-n-propylamine	70	10.307	10.315	(1.086)	3250	0.10000	0.09264
	22 2,4-Dimethylphenol	107	10.229	10.229	(0.853)	6474	0.20000	0.2004
	24 Benzoic acid	105	11.356	11.373	(0.947)	3038	0.40000	0.08328
	26 1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	5852	0.10000	0.1016
*	27 Naphthalene-d8	136	11.988	11.988	(1.000)	564967	4.00000	
	30 Hexachlorobutadiene	225	12.382	12.382	(1.033)	3590	0.10000	0.09763
	39 Dimethylphthalate	163	15.099	15.107	(0.967)	10320	0.10000	0.09831
*	42 Acenaphthene-d10	162	15.617	15.617	(1.000)	276925	4.00000	
	50 Diethylphthalate	149	16.560	16.560	(1.060)	10289	0.10000	0.09128
	54 N-Nitrosodiphenylamine	169	16.954	16.962	(0.908)	6552	0.10000	0.09342
	57 Hexachlorobenzene	284	18.042	18.042	(0.966)	3495	0.10000	0.1018

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.390	18.398	(0.985)	2468	0.20000	0.1200
*	59 Phenanthrene-d10	188	18.669	18.677	(1.000)	537805	4.00000	
$	66 Terphenyl-d14	244	21.771	21.779	(0.919)	8351	0.10000	0.08943
	67 Butylbenzylphthalate	149	22.685	22.693	(0.958)	4388	0.10000	0.05766
*	69 Chrysene-d12	240	23.684	23.692	(1.000)	433067	4.00000	
*	77 Perylene-d12	264	26.517	26.533	(1.000)	402089	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.488	29.519	(1.112)	12164	0.10000	0.09372
	90 N-Nitrosodimethylamine	74	5.088	5.103	(0.536)	5104	0.20000	0.1897

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012309S.D
Lab Smp Id: SLE0082-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	161930	-4.28
27 Naphthalene-d8	594924	297462	1189848	564967	-5.04
42 Acenaphthene-d10	304980	152490	609960	276925	-9.20
59 Phenanthrene-d10	609190	304595	1218380	537805	-11.72
69 Chrysene-d12	479061	239531	958122	433067	-9.60
77 Perylene-d12	427162	213581	854324	402089	-5.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.68	-0.06
77 Perylene-d12	26.54	26.04	27.04	26.52	-0.09

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

REVIEW SUMMARY FOR FILE - NT1005012309S.D

Lab ID: SLE0082-CAL2
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 19:25

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123105.D

Date : 01-MAY-2023 20:04

Client ID:

Instrument: nt10.i

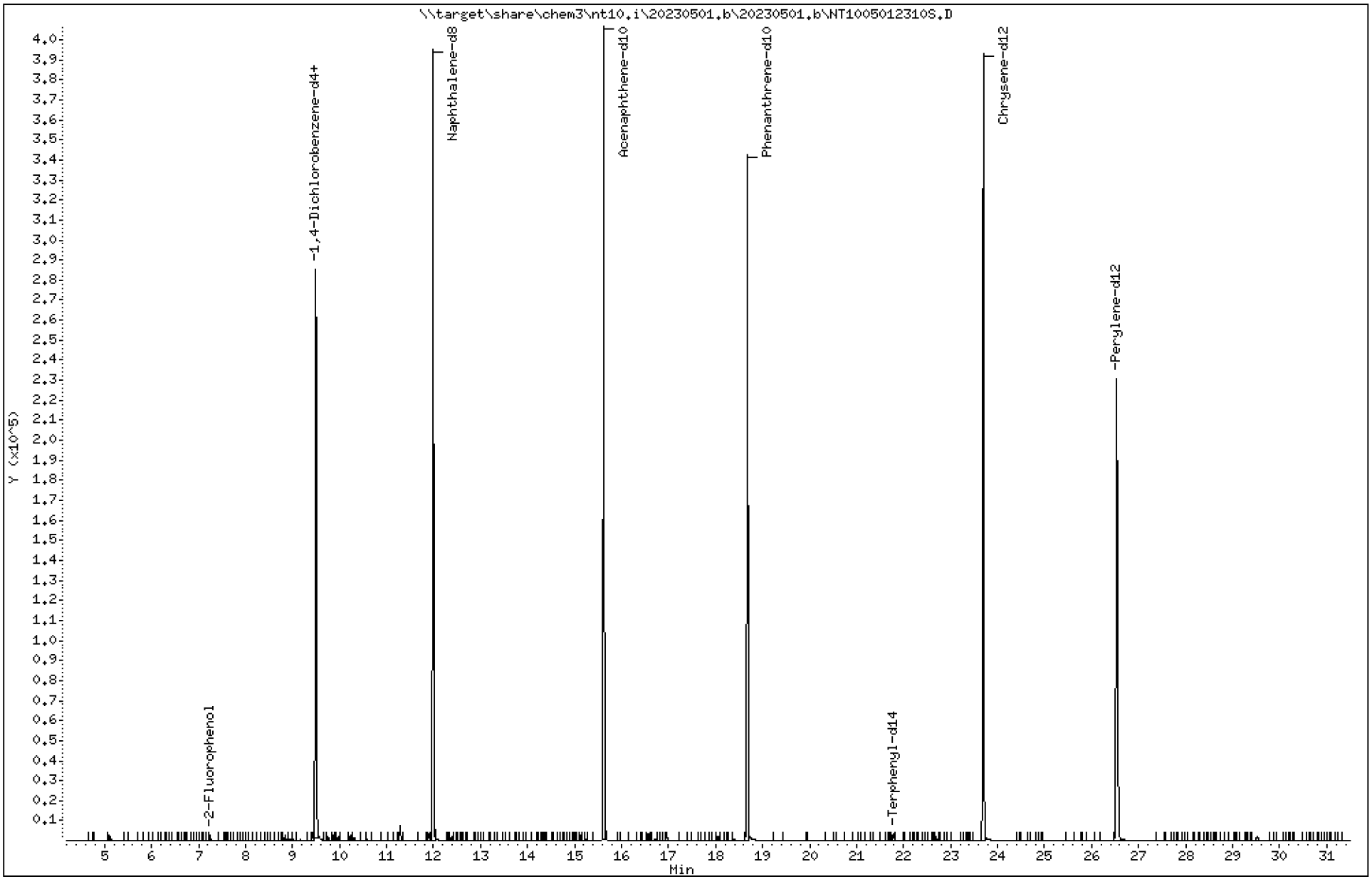
Sample Info: SLE0082-CAL1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1795 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012310S.D
Lab Smp Id: SLE0082-CAL1
Inj Date : 01-MAY-2023 20:04 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-CAL1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.763)	3564	0.07500	0.06663
3	Phenol	94	8.842	8.842	(0.932)	3183	0.05000	0.04751
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	3645	0.05000	0.05173
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	175584	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	3559	0.05000	0.05100
11	Benzyl alcohol	79	9.756	9.756	(1.028)	2019	0.05000	0.04358
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	3483	0.05000	0.05189
13	2-Methylphenol	108	9.965	9.965	(1.050)	2443	0.05000	0.04872
15	4-Methylphenol	108	10.237	10.237	(1.079)	2298	0.05000	0.04359
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	1898	0.05000	0.04989
22	2,4-Dimethylphenol	107	10.229	10.229	(0.853)	4016	0.10000	0.1154
24	Benzoic acid	105	11.373	11.373	(0.949)	1161	0.20000	0.02956
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	3312	0.05000	0.05341
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	608327	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	2064	0.05000	0.05213
39	Dimethylphthalate	163	15.107	15.107	(0.967)	5630	0.05000	0.04999
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	297084	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	5526	0.05000	0.04570
54	N-Nitrosodiphenylamine	169	16.962	16.962	(0.908)	3439	0.05000	0.04548
57	Hexachlorobenzene	284	18.042	18.042	(0.966)	1942	0.05000	0.05245

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.398	18.398	(0.985)	1264	0.10000	0.05703
*	59 Phenanthrene-d10	188	18.677	18.677	(1.000)	579785	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	4279	0.05000	0.04293
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	2187	0.05000	0.02693
*	69 Chrysene-d12	240	23.692	23.692	(1.000)	462282	4.00000	
*	77 Perylene-d12	264	26.533	26.533	(1.000)	432429	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.519	29.519	(1.113)	6337	0.05000	0.04540
	90 N-Nitrosodimethylamine	74	5.103	5.103	(0.538)	2517	0.10000	0.08626

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012310S.D
Lab Smp Id: SLE0082-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	175584	3.79
27 Naphthalene-d8	594924	297462	1189848	608327	2.25
42 Acenaphthene-d10	304980	152490	609960	297084	-2.59
59 Phenanthrene-d10	609190	304595	1218380	579785	-4.83
69 Chrysene-d12	479061	239531	958122	462282	-3.50
77 Perylene-d12	427162	213581	854324	432429	1.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.69	-0.03
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005012310S.D

Lab ID: SLE0082-CAL1
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 20:04

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

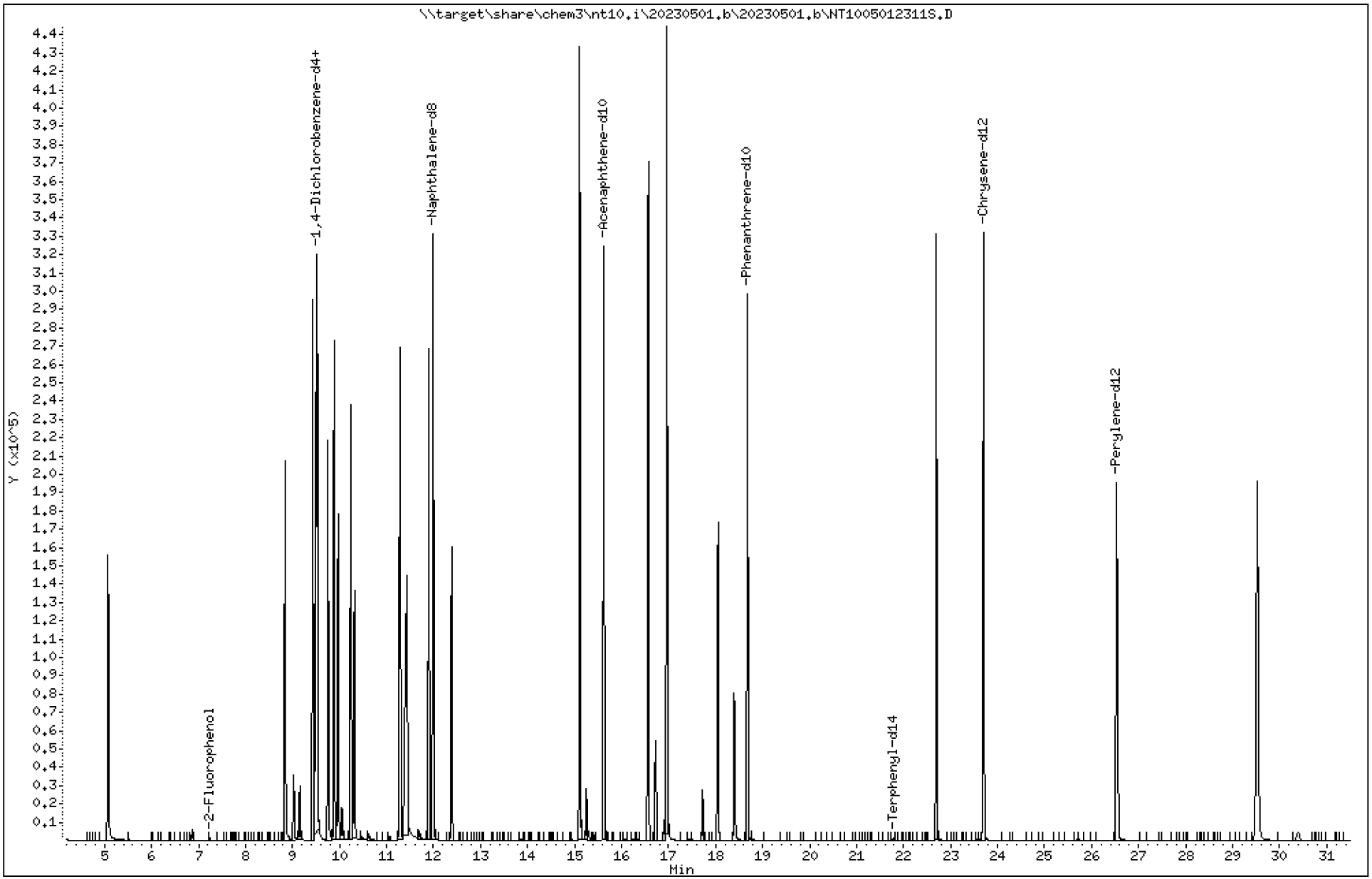
Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1800 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

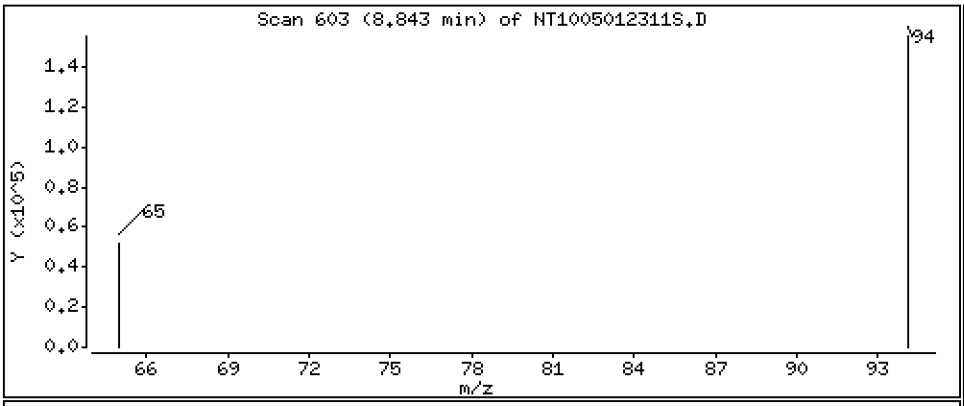
Operator: JGR

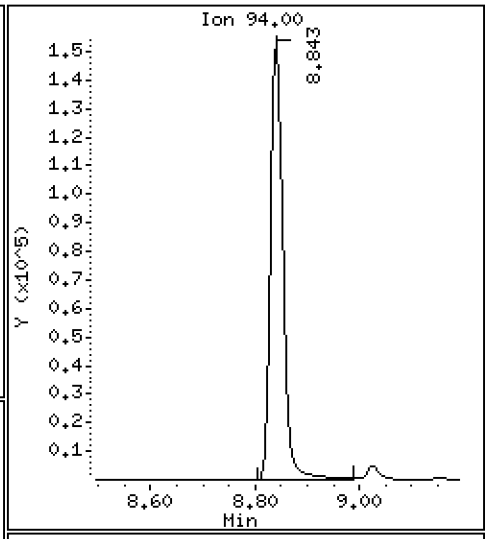
Column phase: ZB-5msi

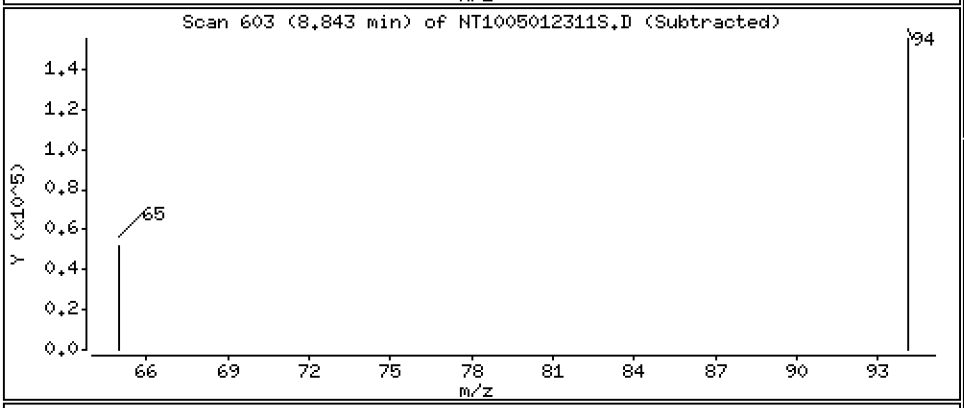
Column diameter: 0.25

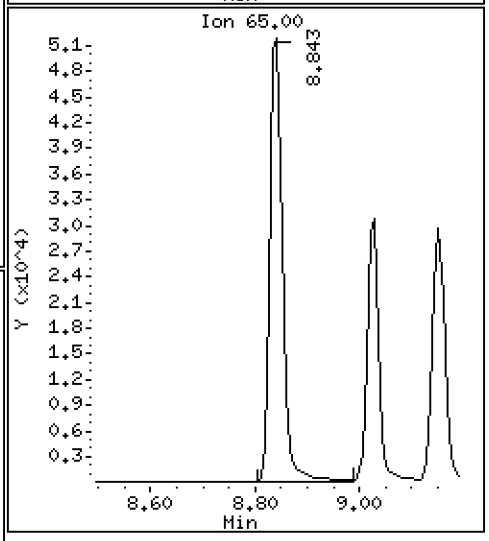
3 Phenol

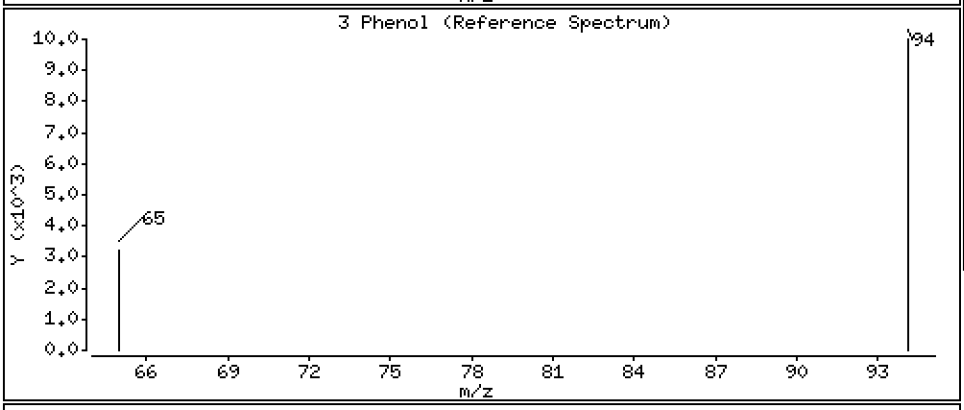
Concentration: 4.436 ug/L

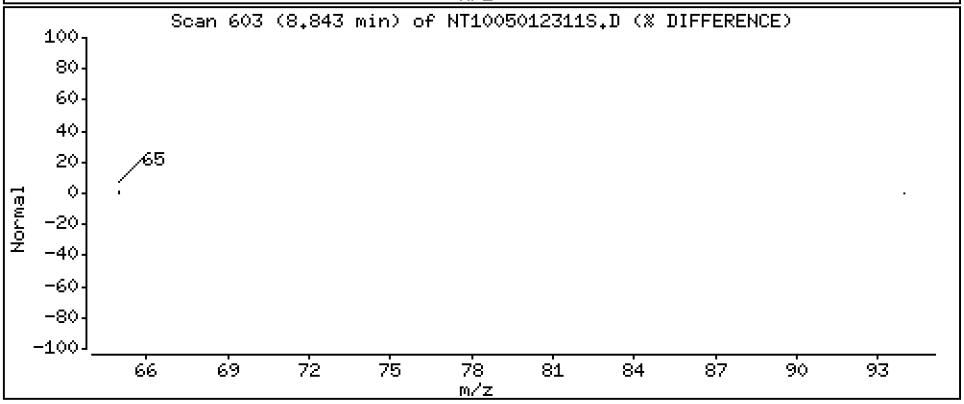












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

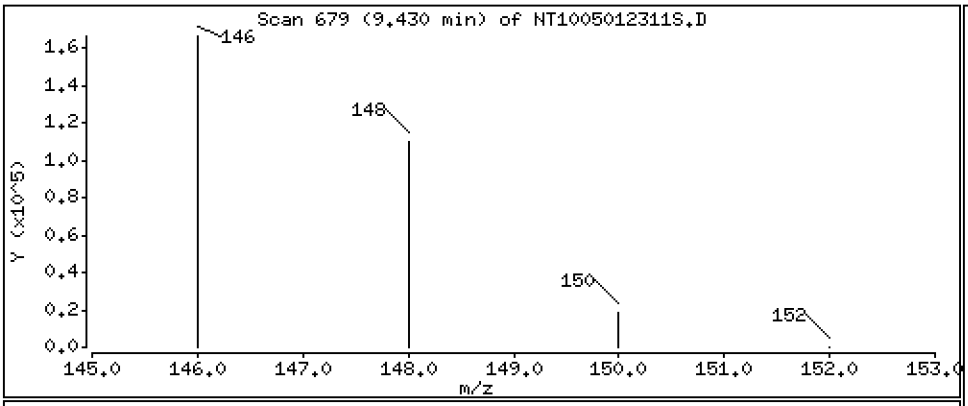
Operator: JGR

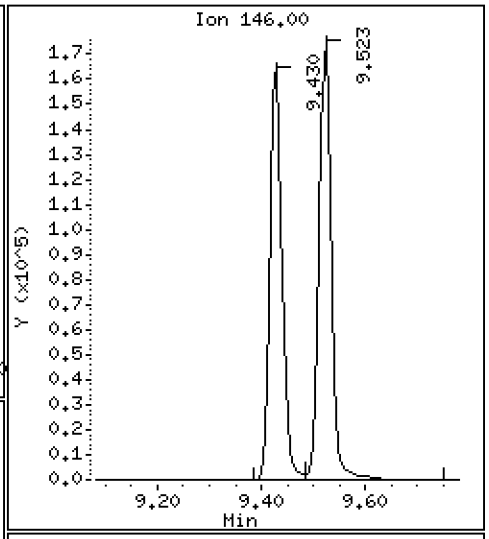
Column phase: ZB-5msi

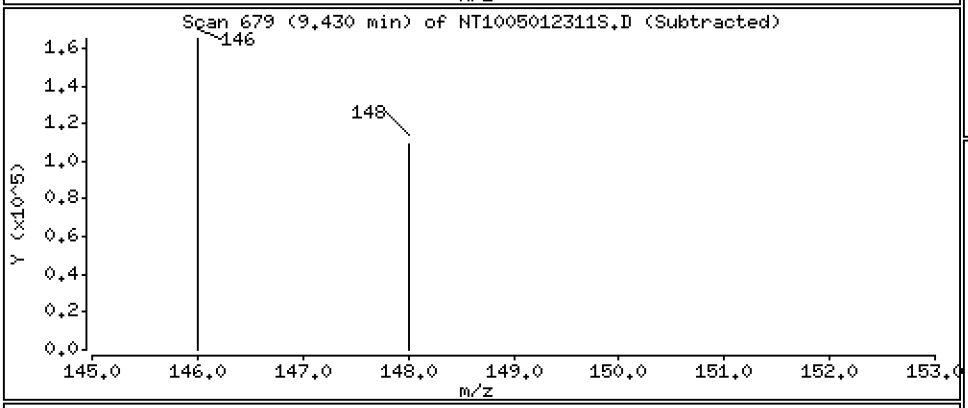
Column diameter: 0.25

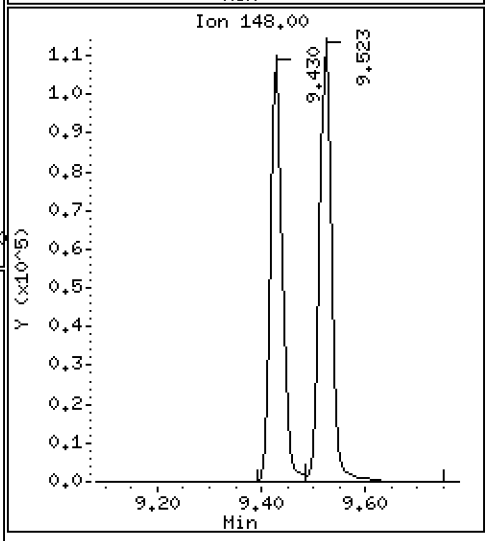
7 1,3-Dichlorobenzene

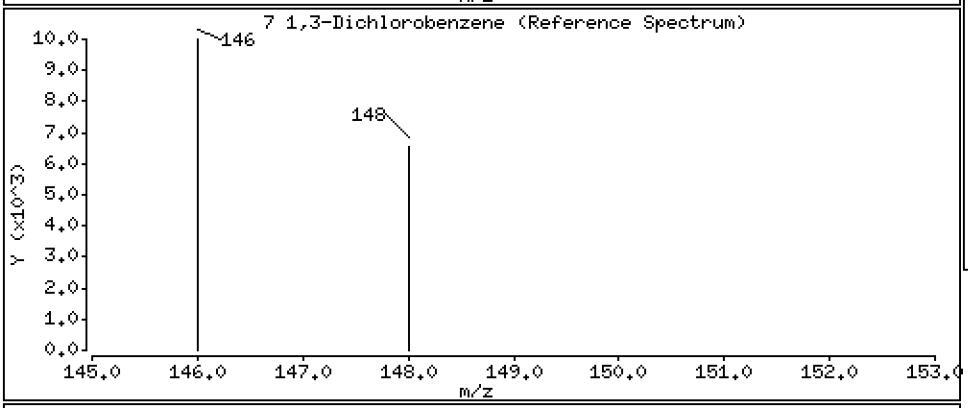
Concentration: 4.661 ug/L

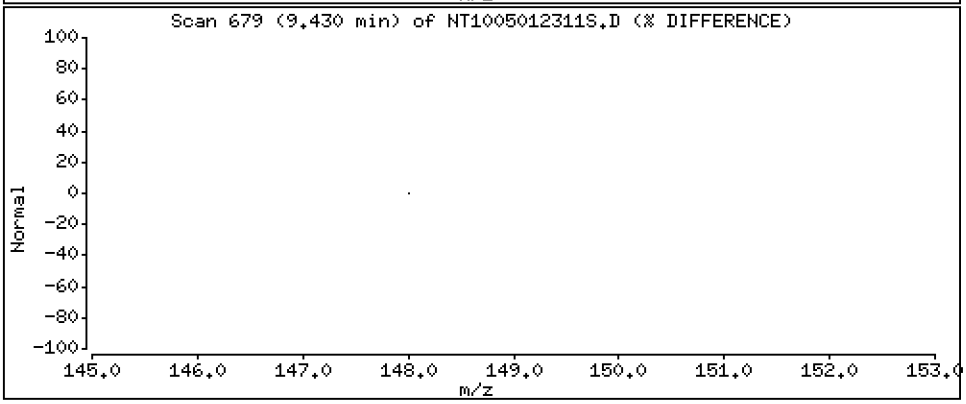












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

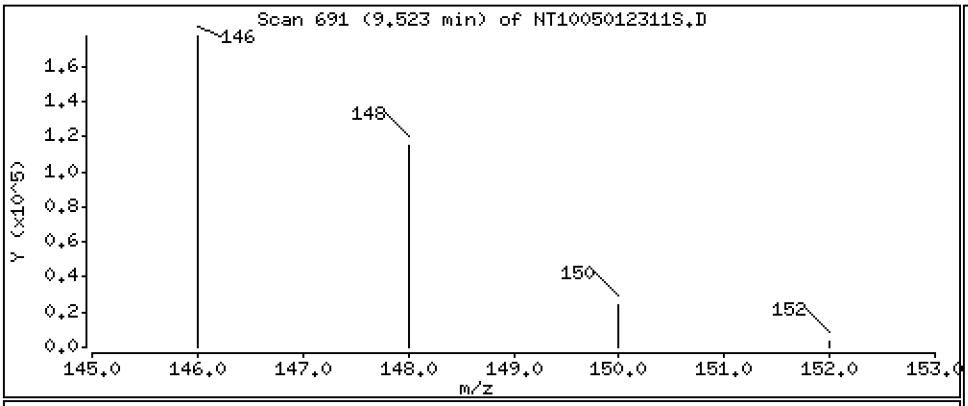
Operator: JGR

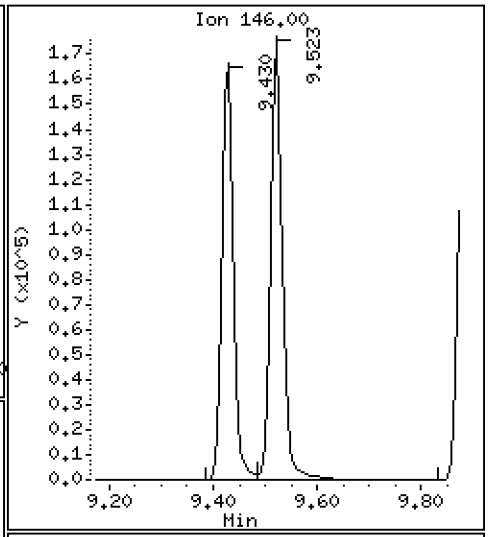
Column phase: ZB-5msi

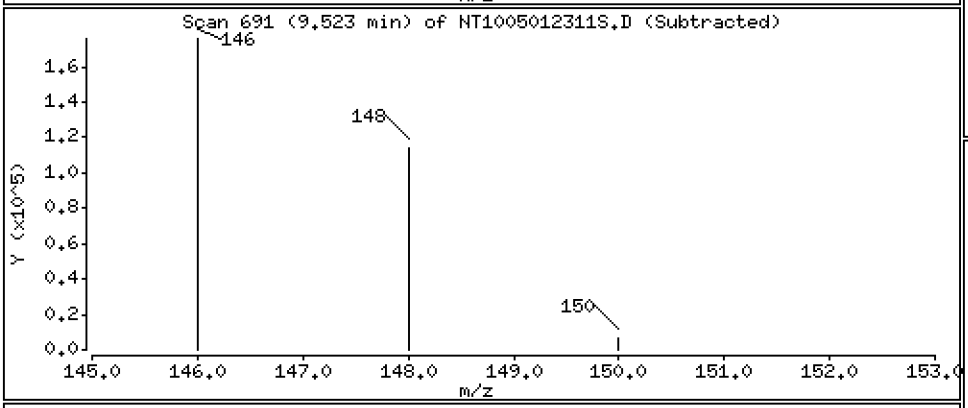
Column diameter: 0.25

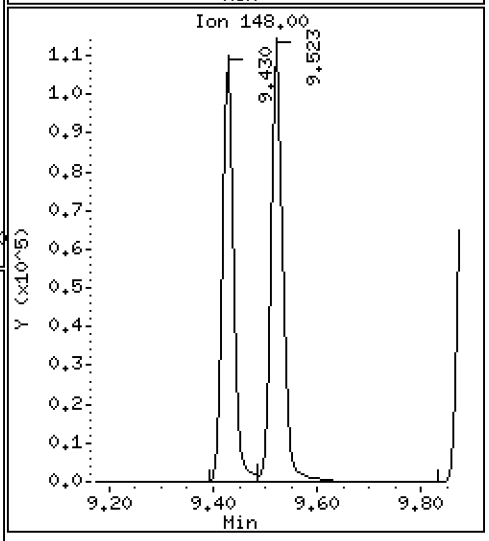
9 1,4-Dichlorobenzene

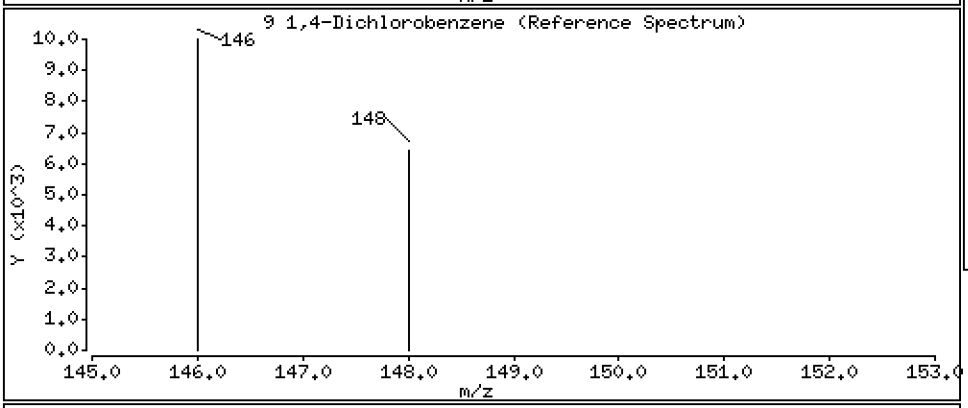
Concentration: 4.784 ug/L

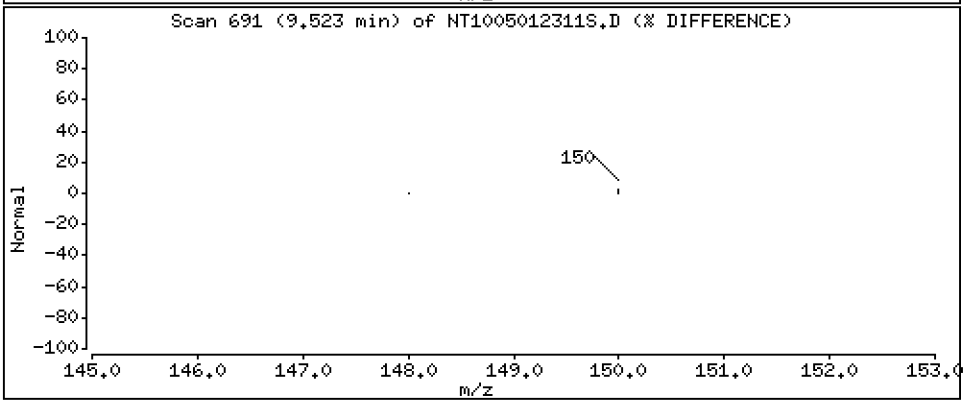












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

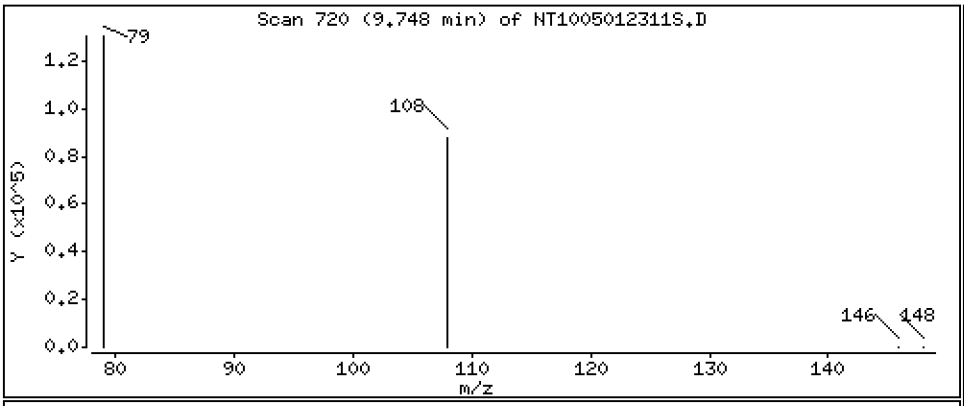
Operator: JGR

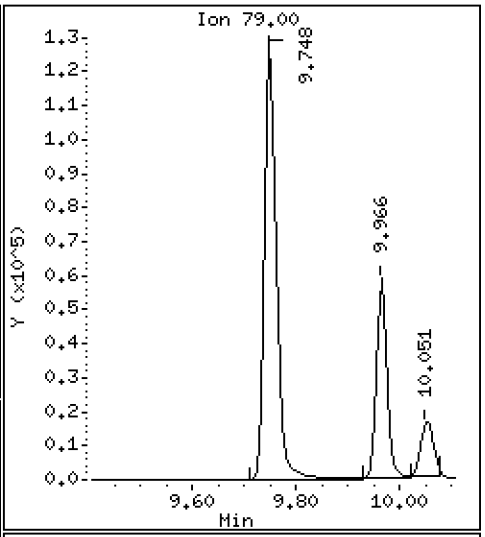
Column phase: ZB-5msi

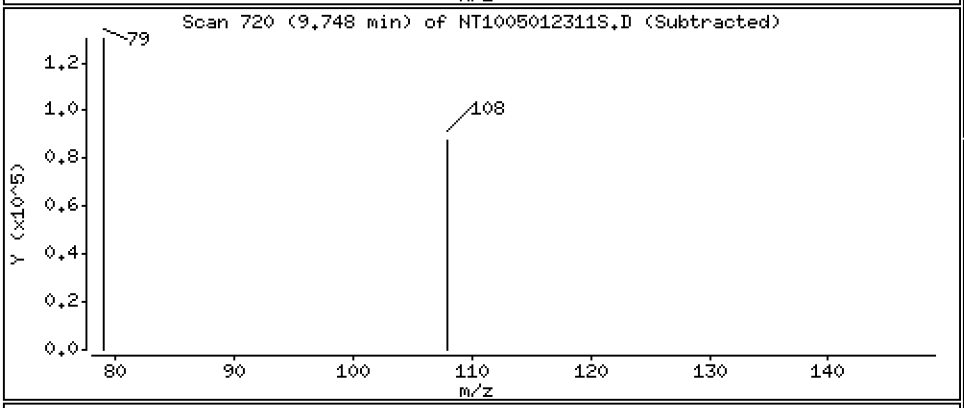
Column diameter: 0.25

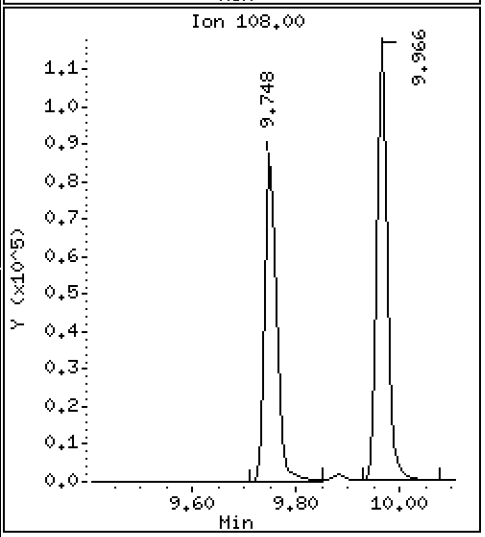
11 Benzyl alcohol

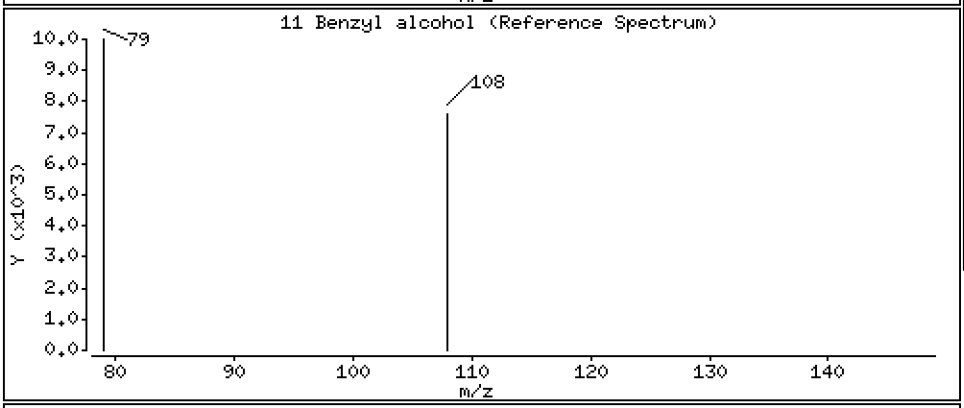
Concentration: 5.272 ug/L

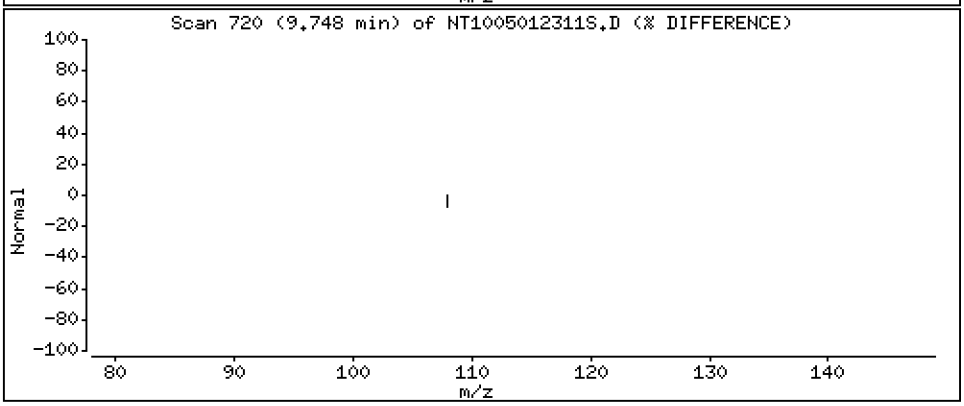












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

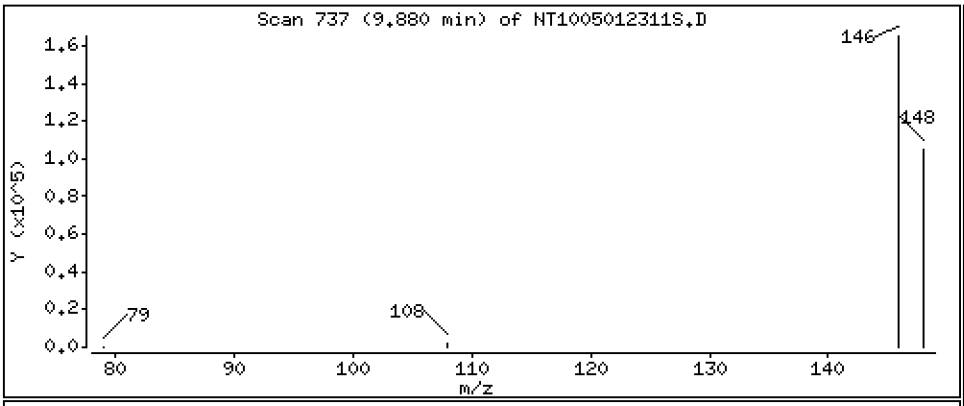
Operator: JGR

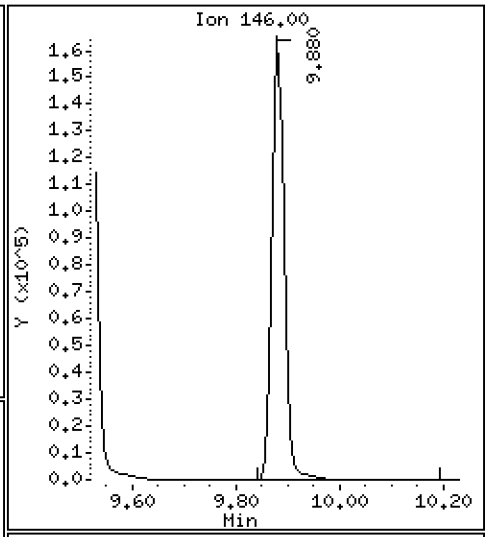
Column phase: ZB-5msi

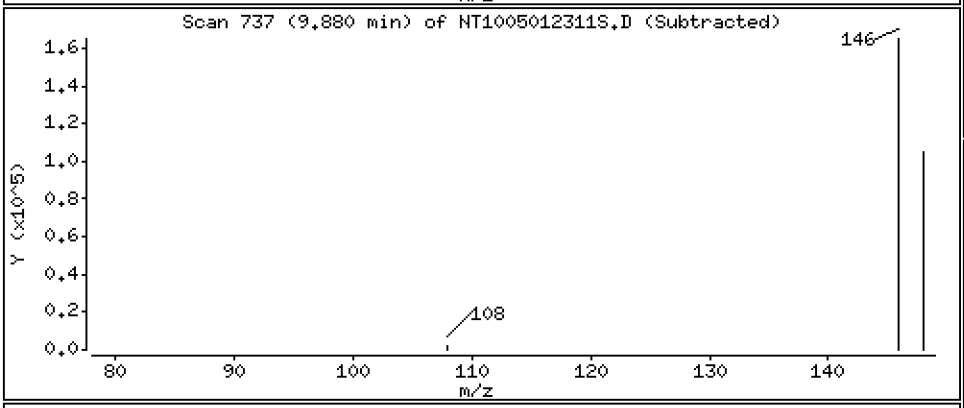
Column diameter: 0.25

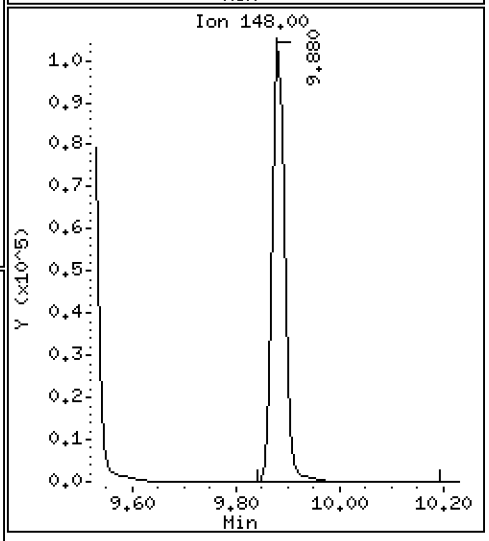
12 1,2-Dichlorobenzene

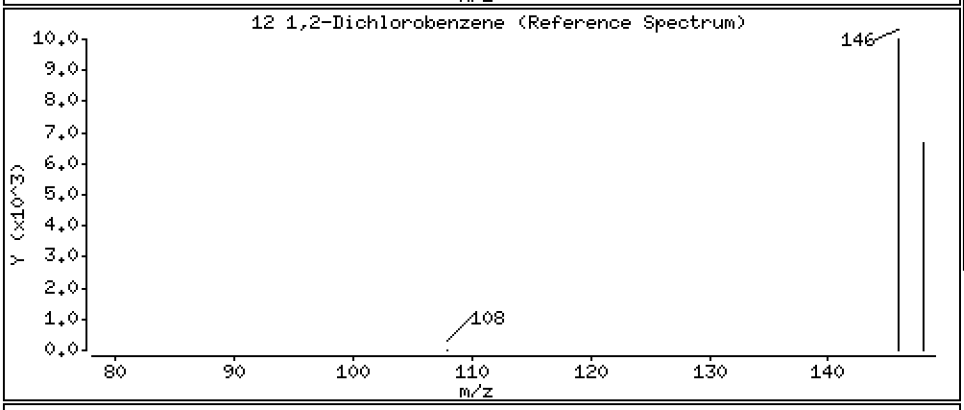
Concentration: 4.657 ug/L

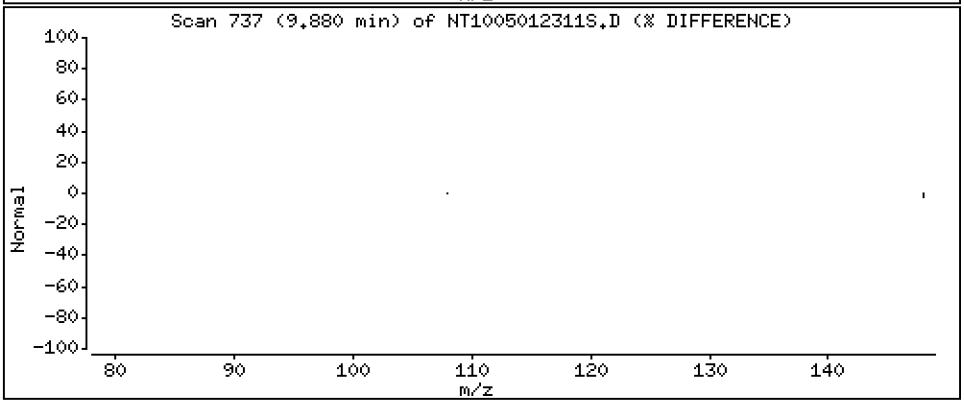












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

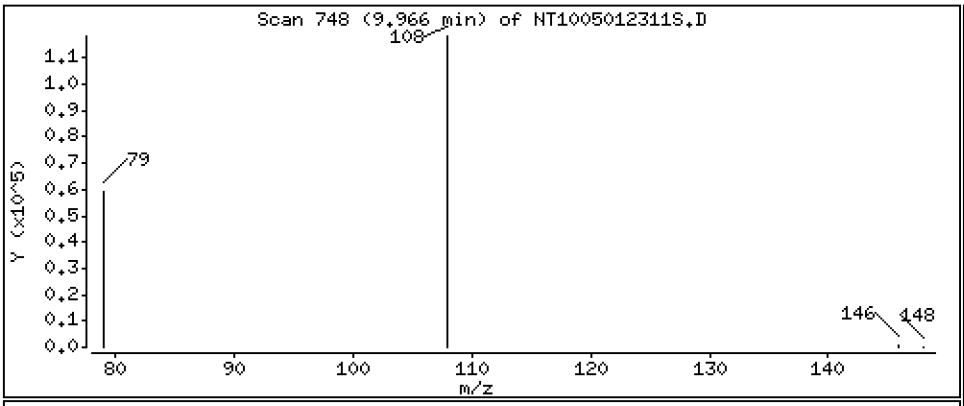
Operator: JGR

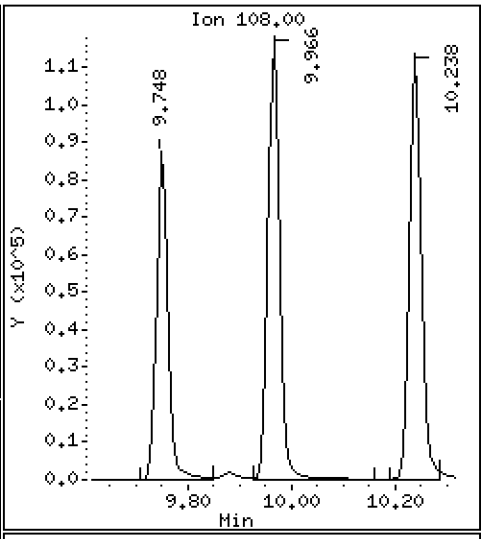
Column phase: ZB-5msi

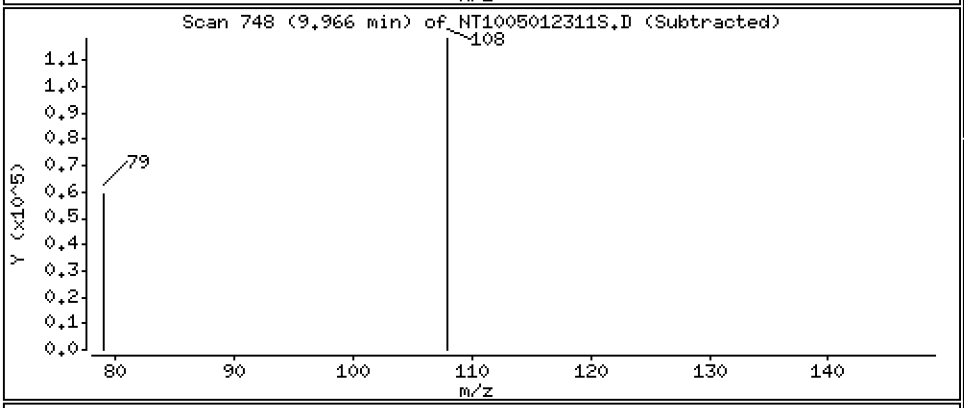
Column diameter: 0.25

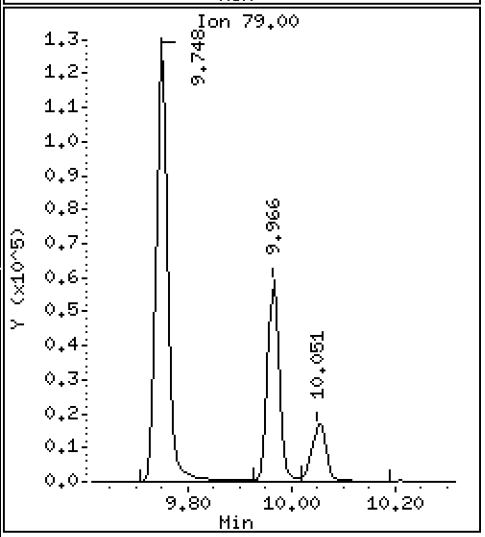
13 2-Methylphenol

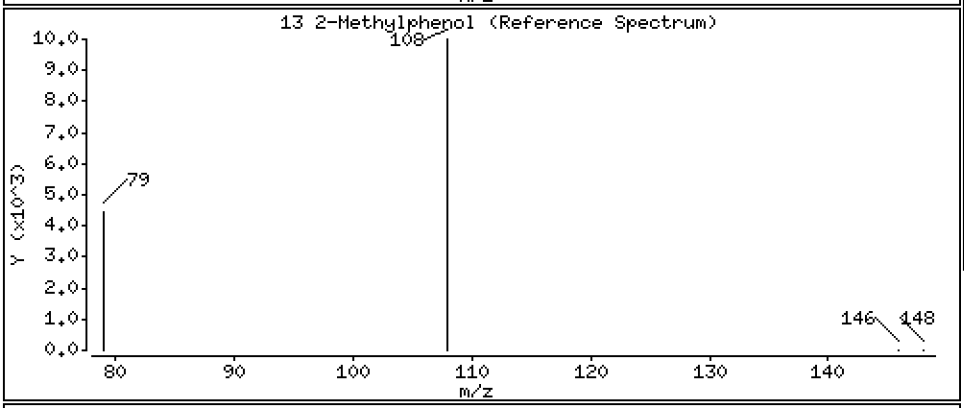
Concentration: 4.243 ug/L

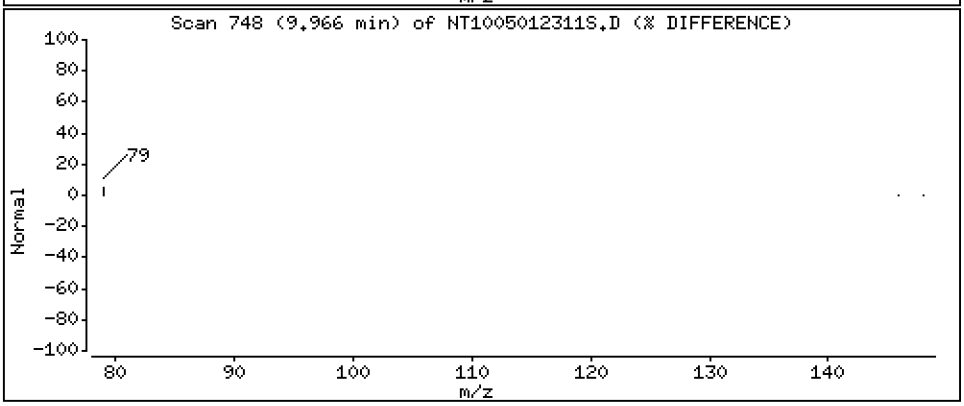












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

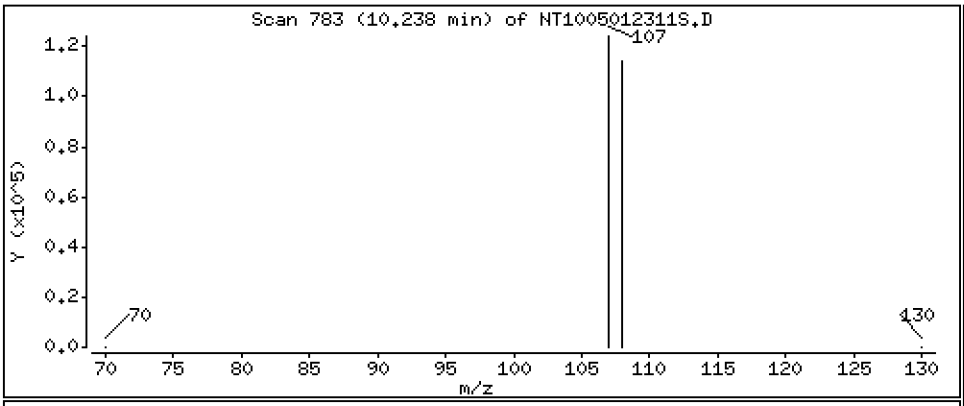
Operator: JGR

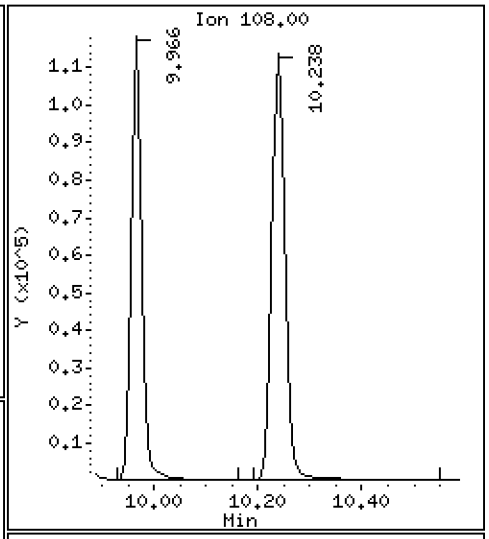
Column phase: ZB-5msi

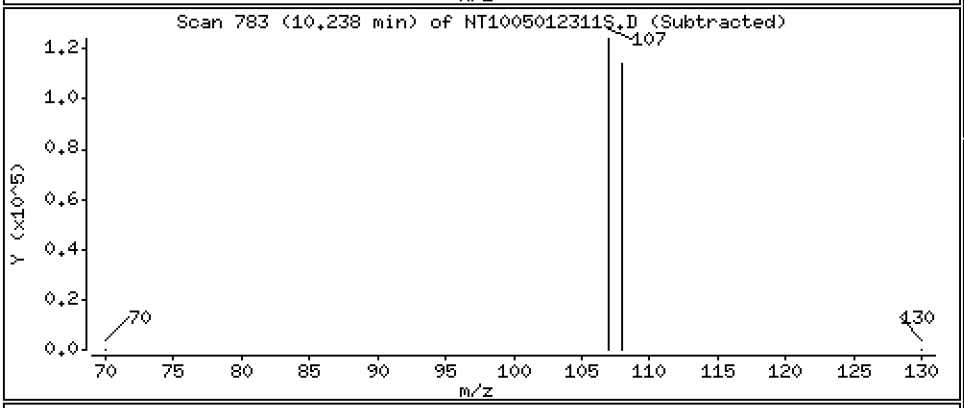
Column diameter: 0.25

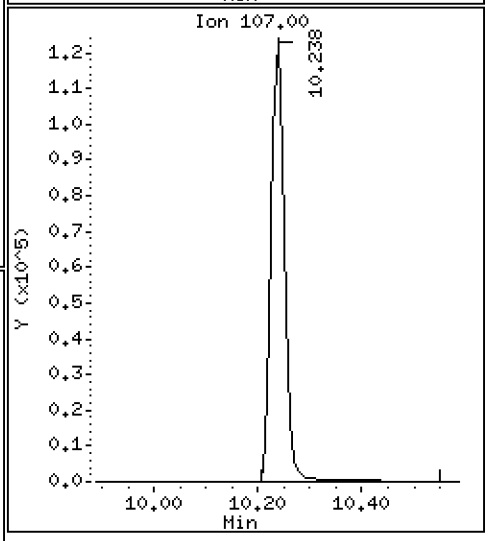
15 4-Methylphenol

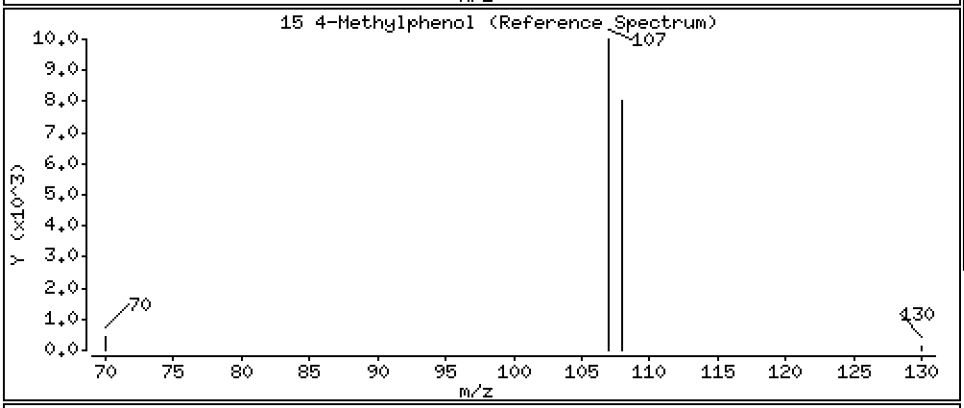
Concentration: 4.470 ug/L

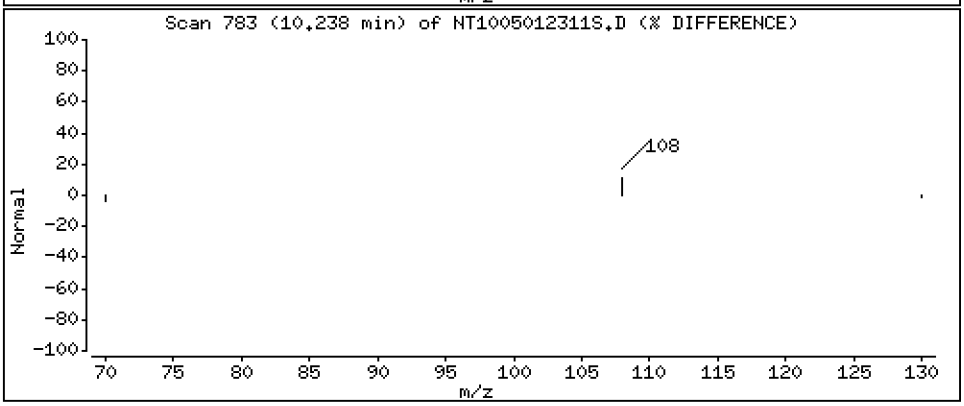












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

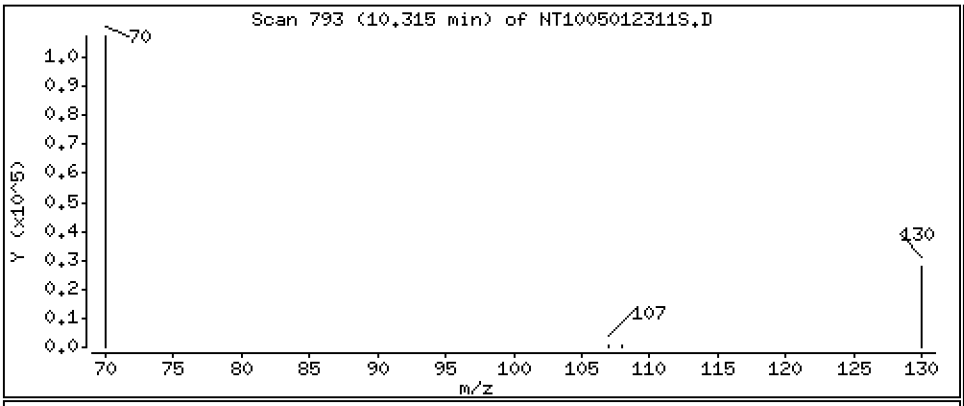
Operator: JGR

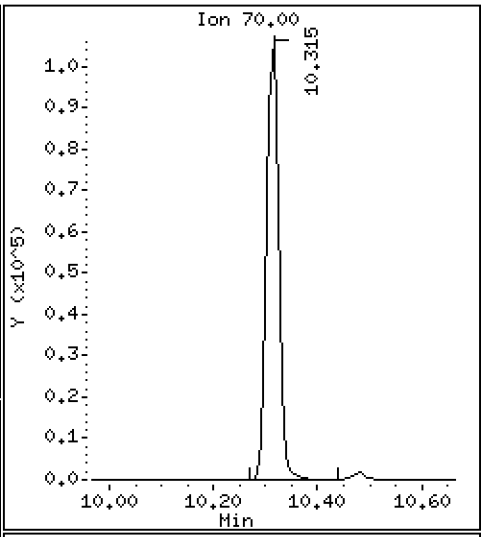
Column phase: ZB-5msi

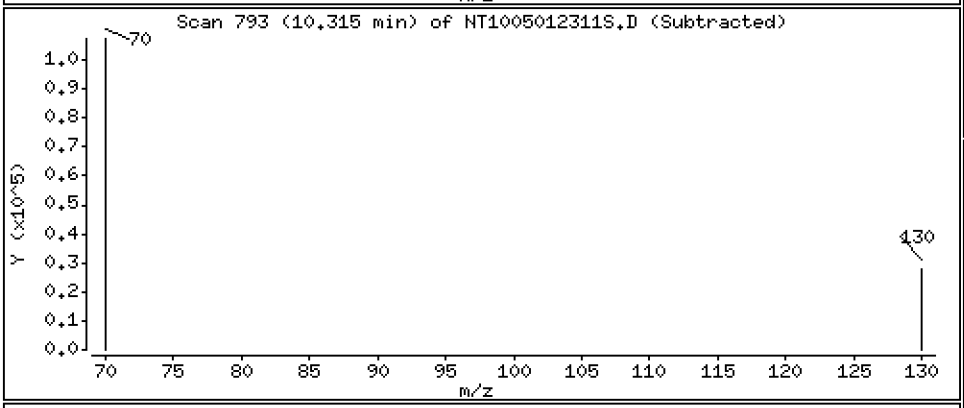
Column diameter: 0.25

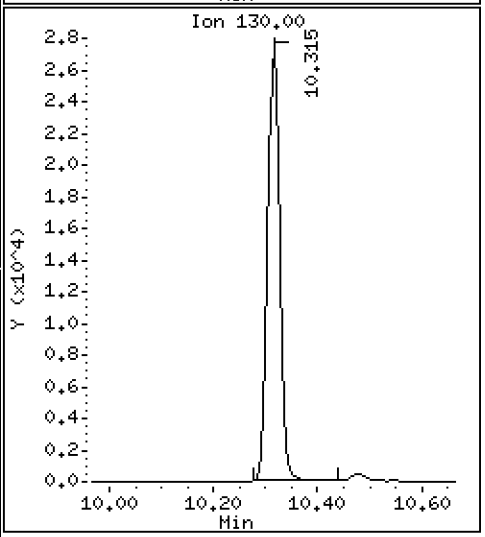
16 N-Nitroso-di-n-propylamine

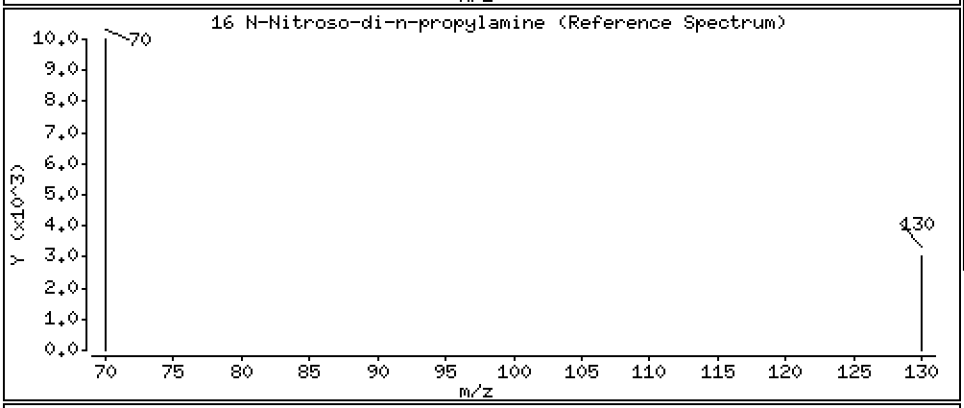
Concentration: 5.268 ug/L

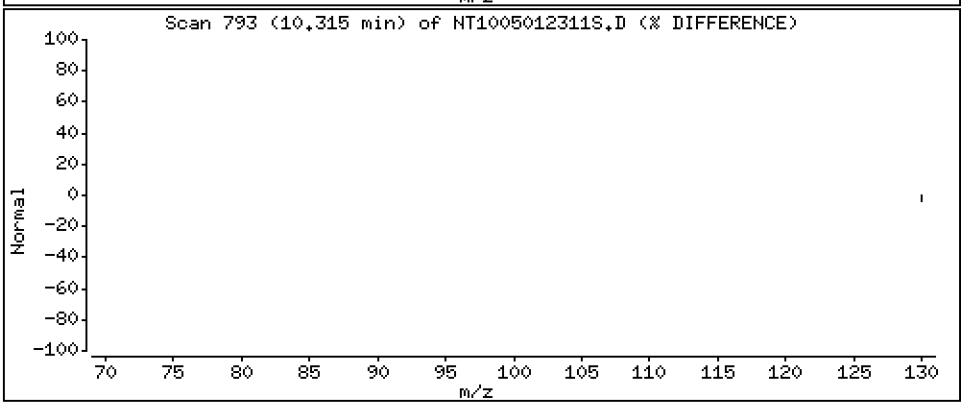












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

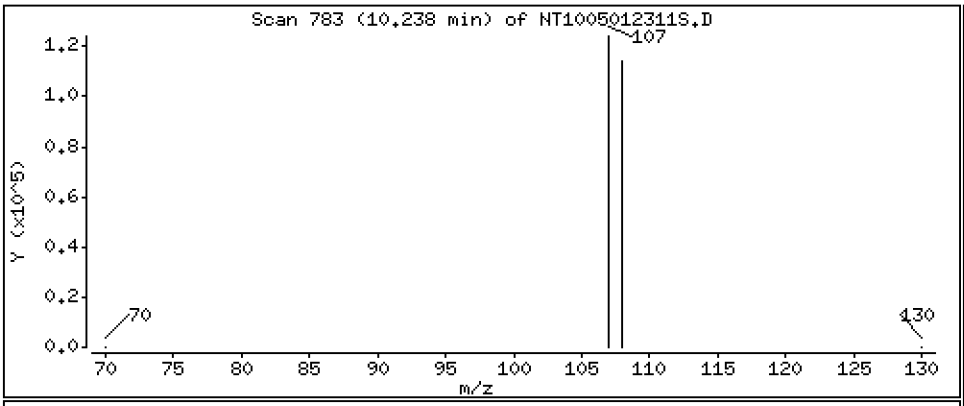
Operator: JGR

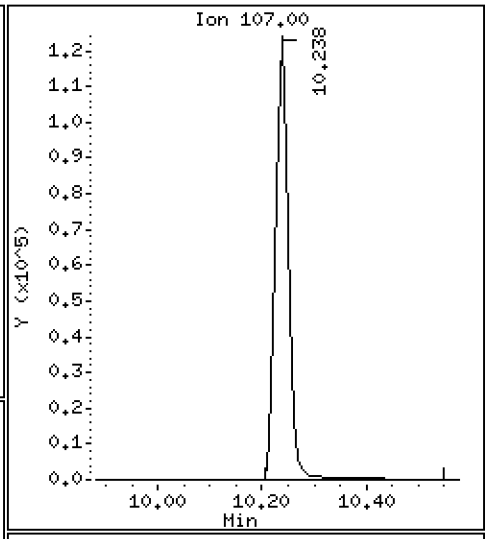
Column phase: ZB-5msi

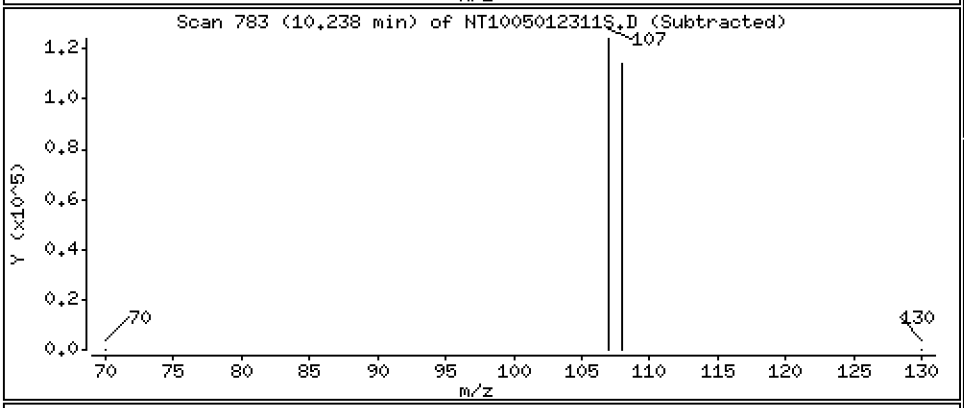
Column diameter: 0.25

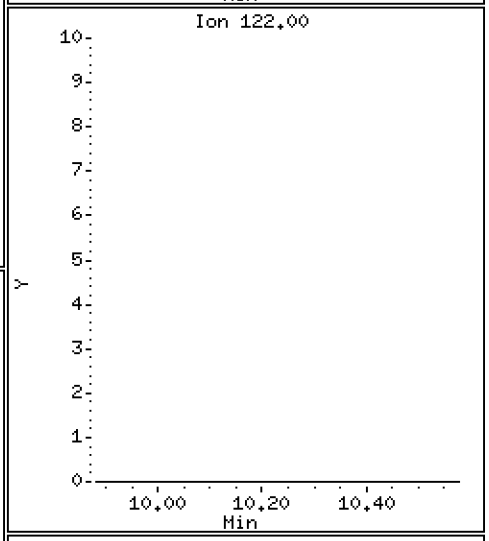
22 2,4-Dimethylphenol

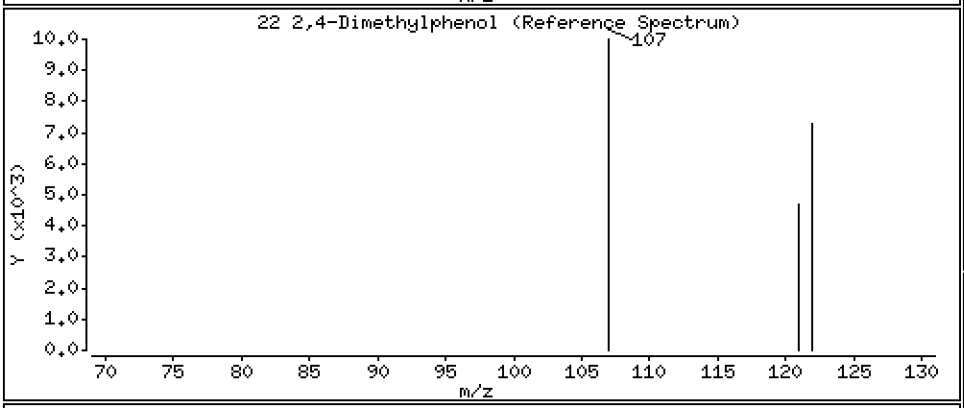
Concentration: 7.261 ug/L

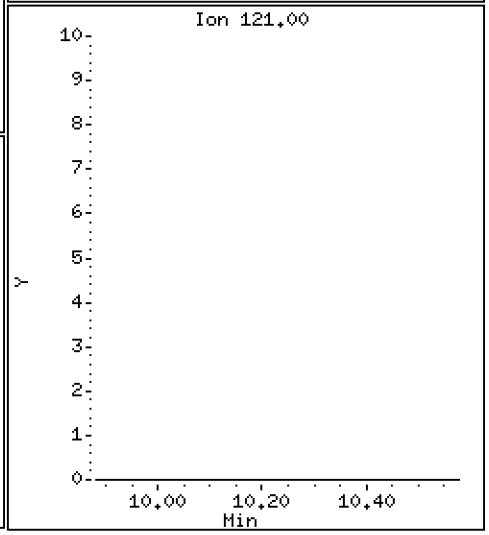


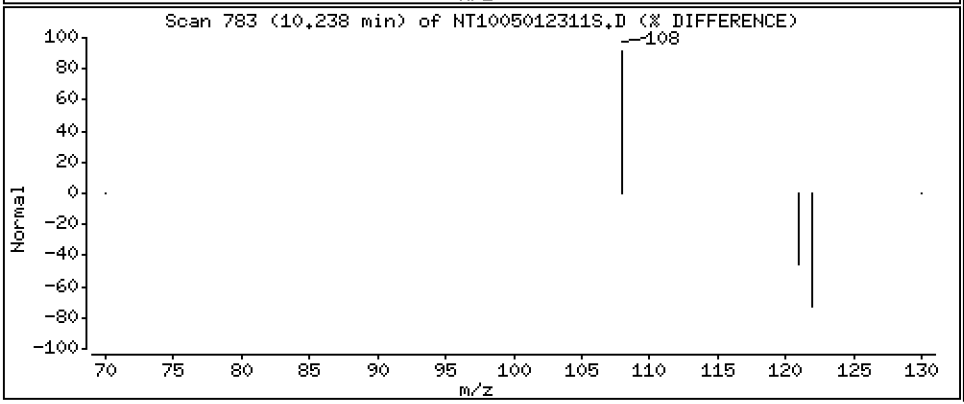












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

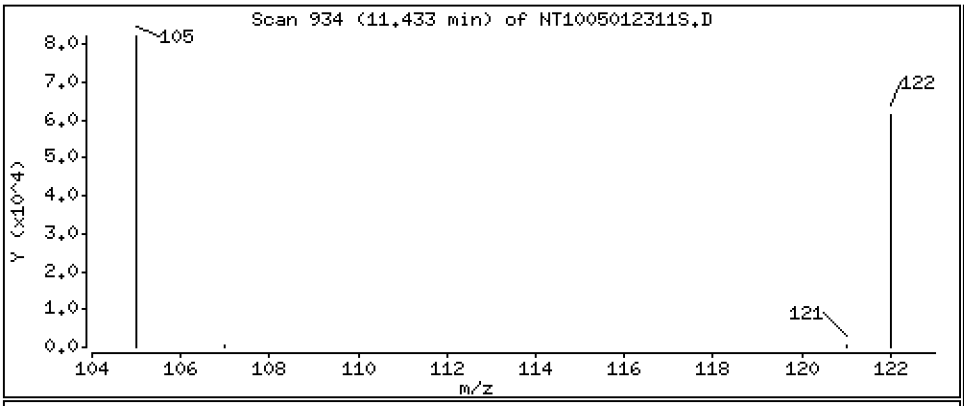
Operator: JGR

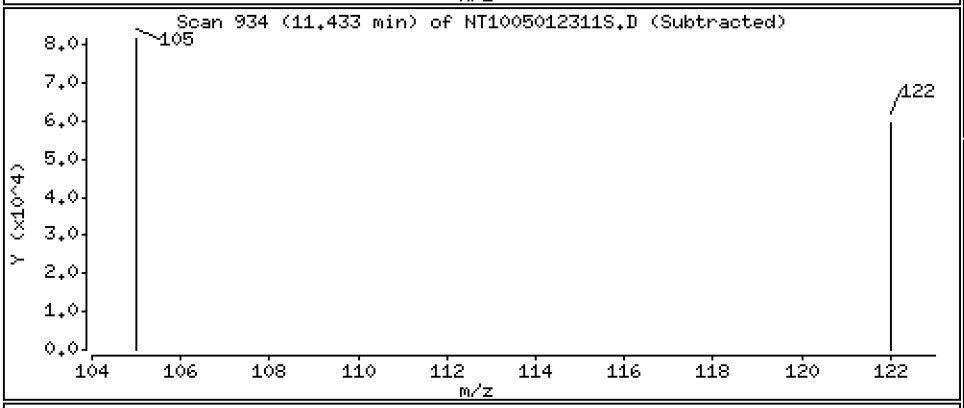
Column phase: ZB-5msi

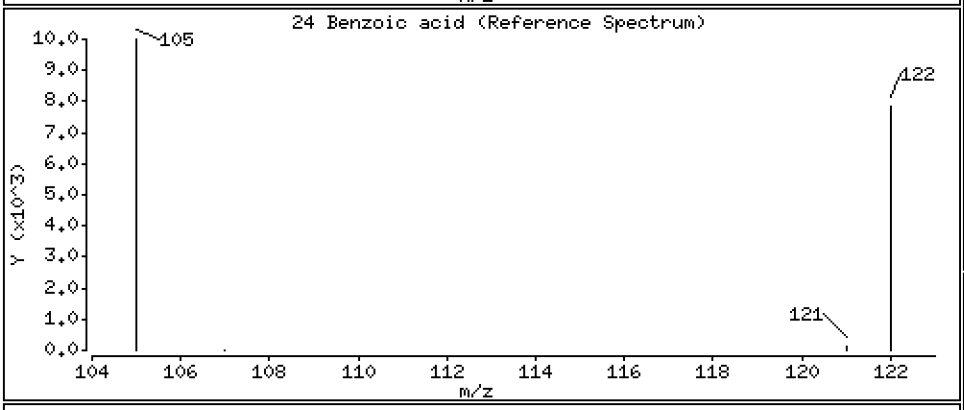
Column diameter: 0.25

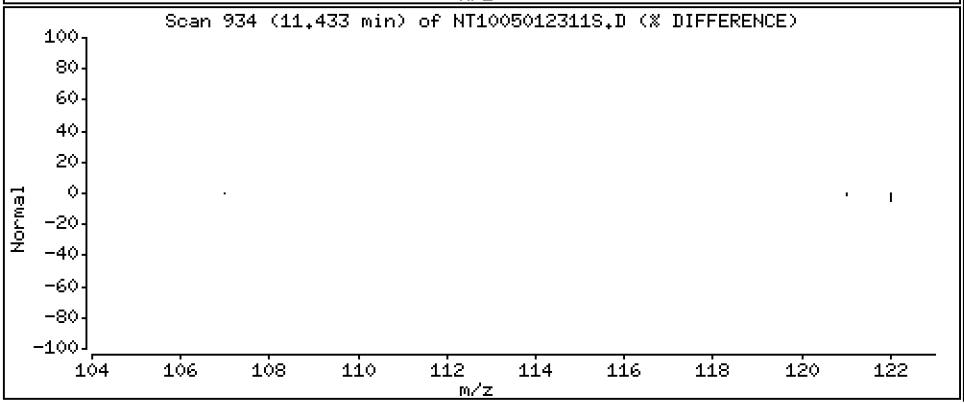
24 Benzoic acid

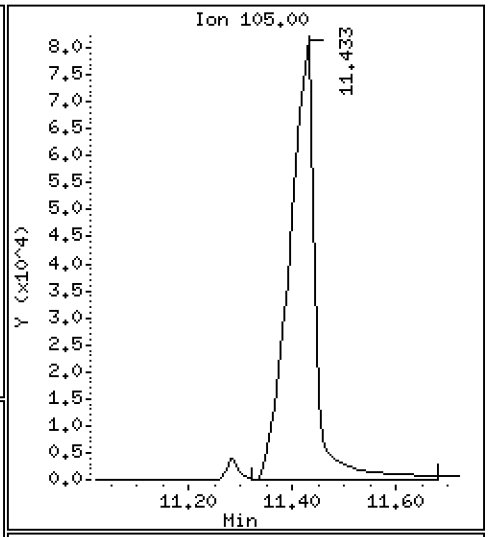
Concentration: 8.322 ug/L

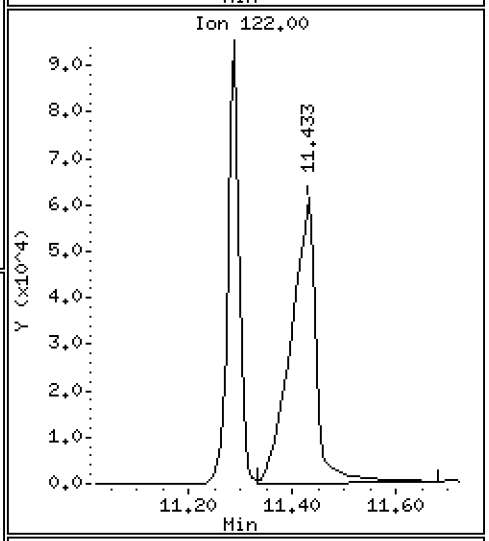


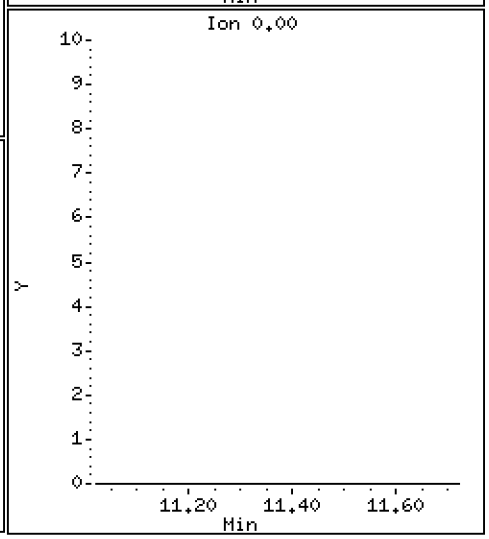












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

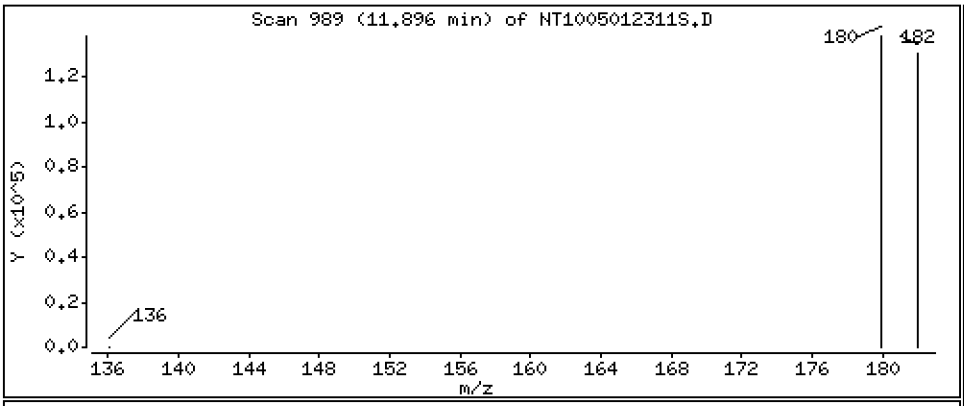
Operator: JGR

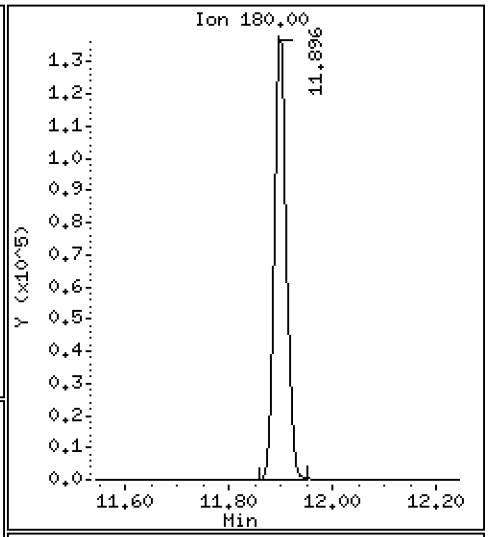
Column phase: ZB-5msi

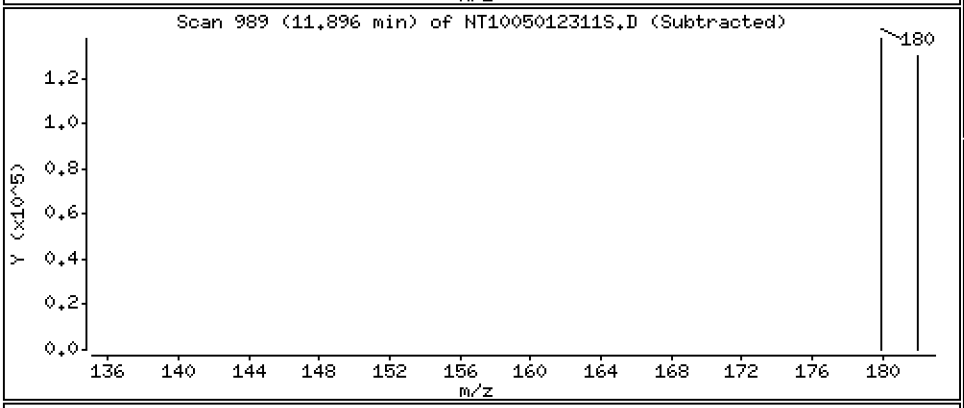
Column diameter: 0.25

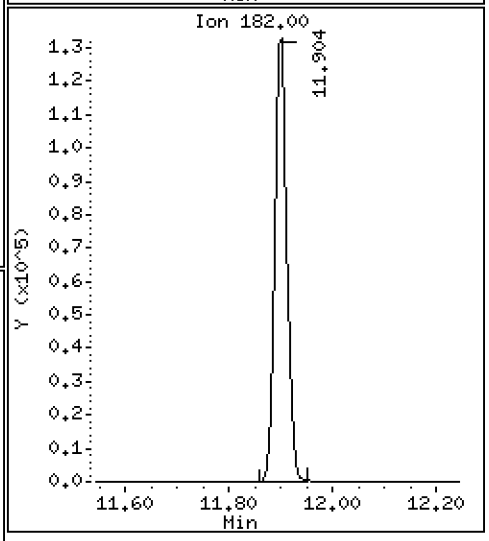
26 1,2,4-Trichlorobenzene

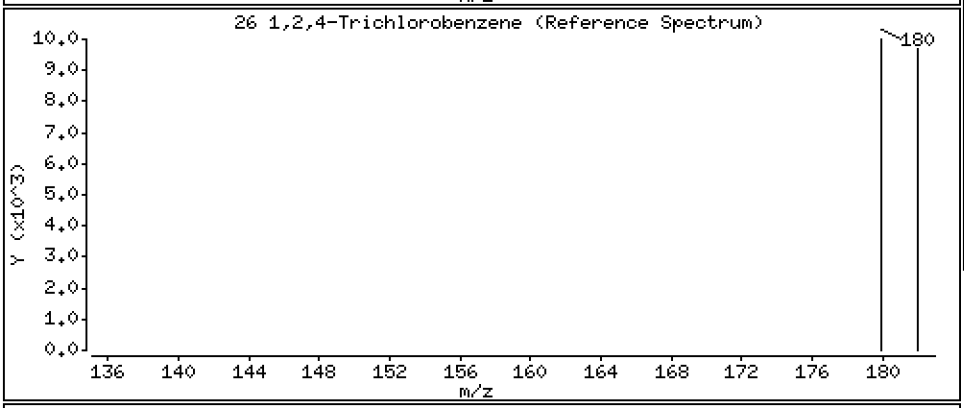
Concentration: 4.321 ug/L

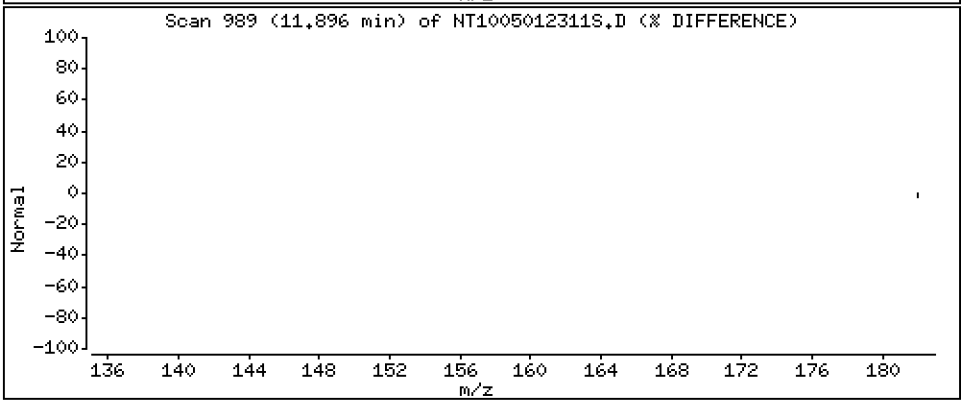












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

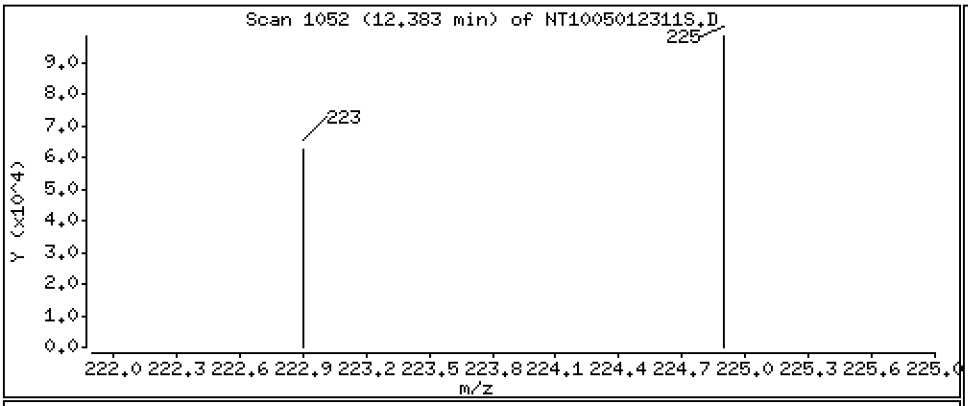
Operator: JGR

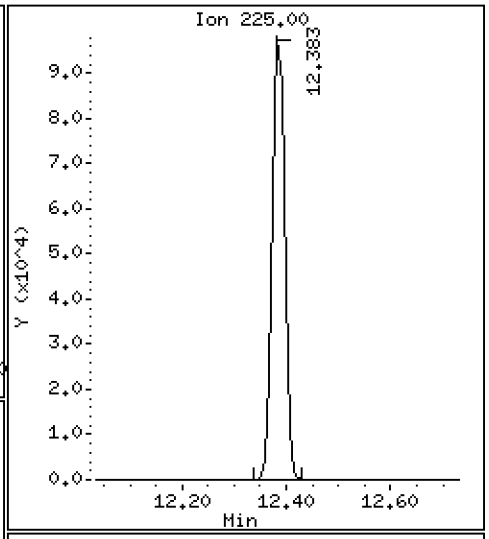
Column phase: ZB-5msi

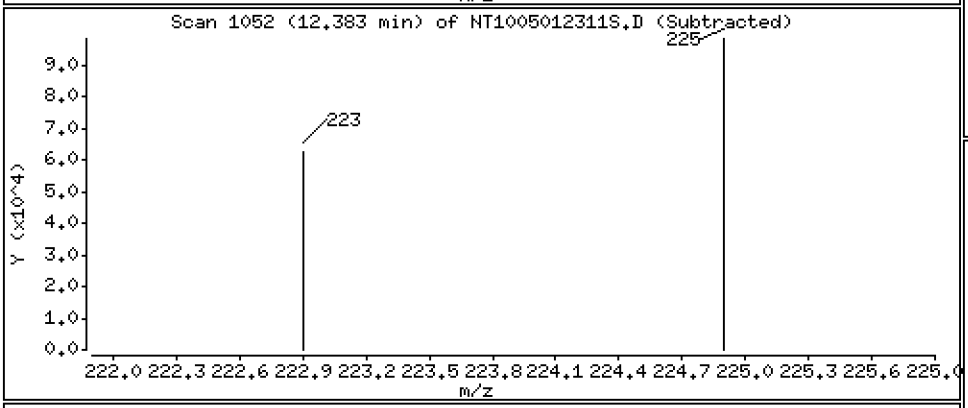
Column diameter: 0.25

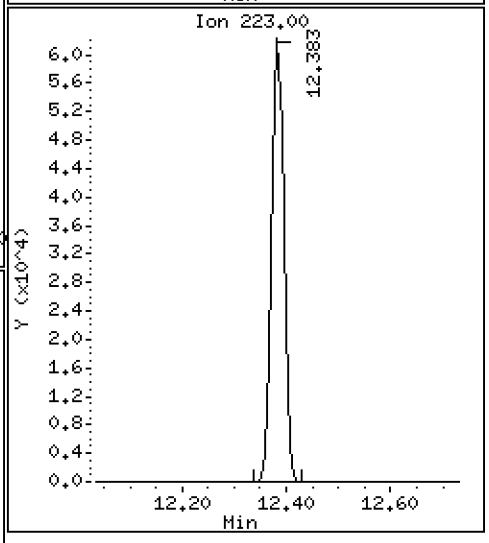
30 Hexachlorobutadiene

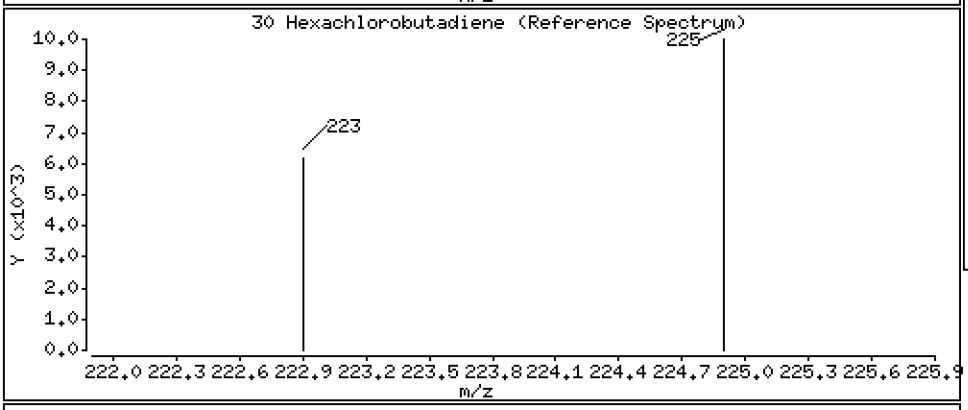
Concentration: 4.632 ug/L

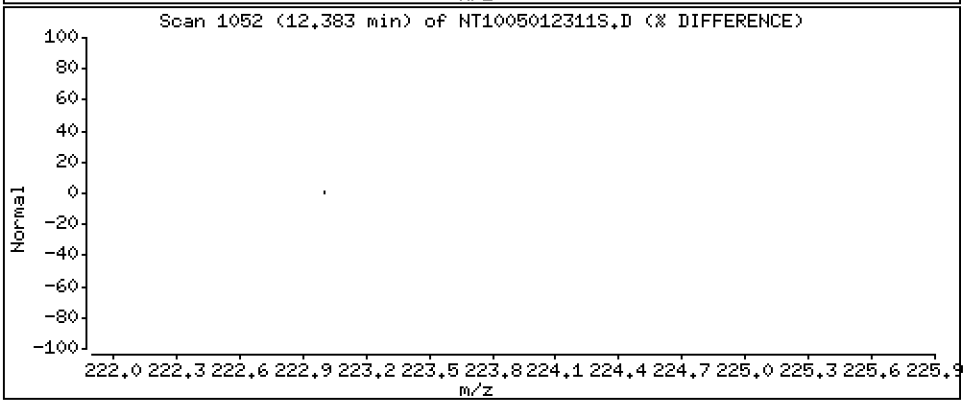












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

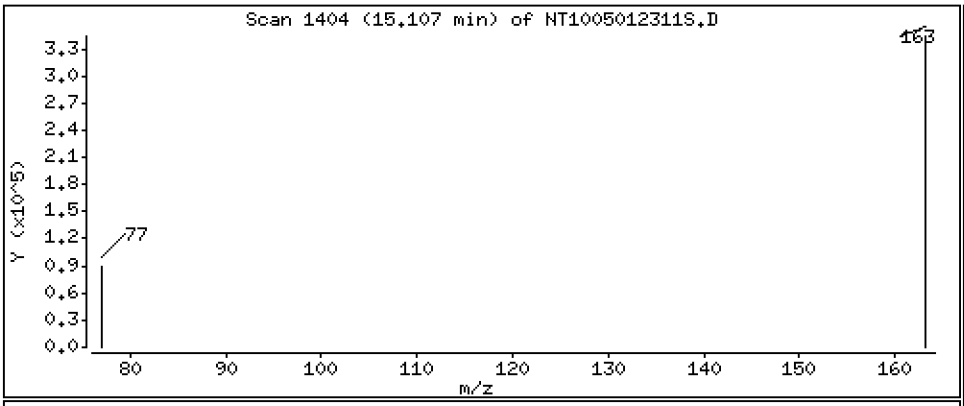
Operator: JGR

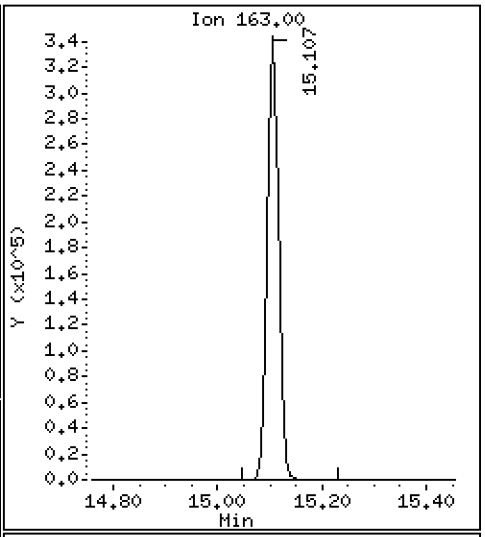
Column phase: ZB-5msi

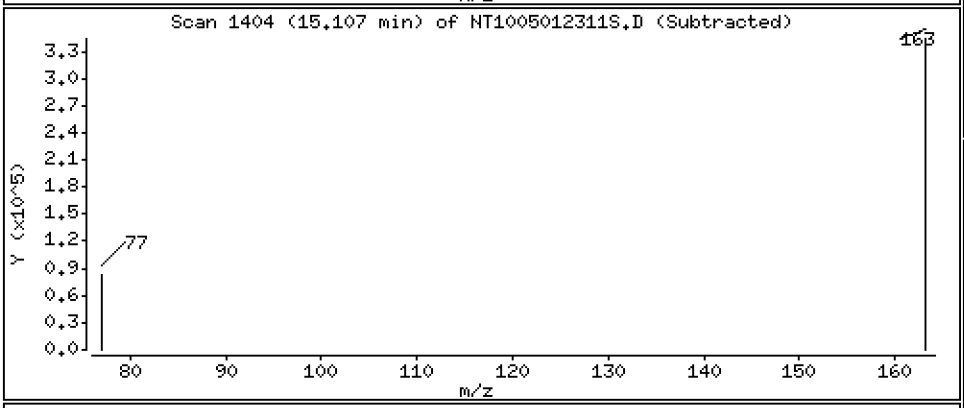
Column diameter: 0.25

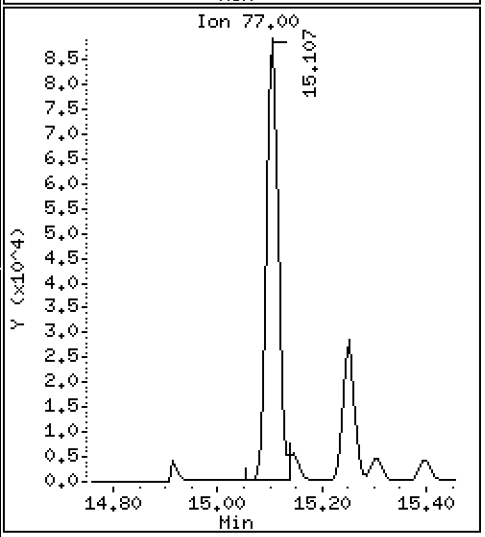
39 Dimethylphthalate

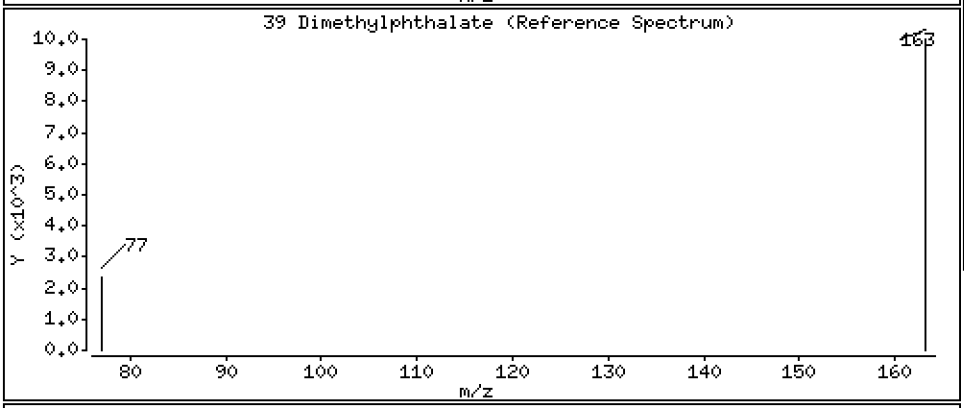
Concentration: 4.875 ug/L

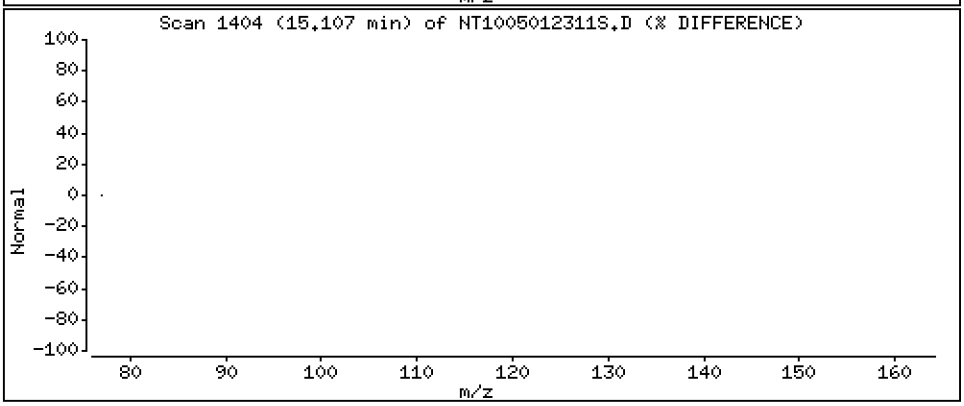












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

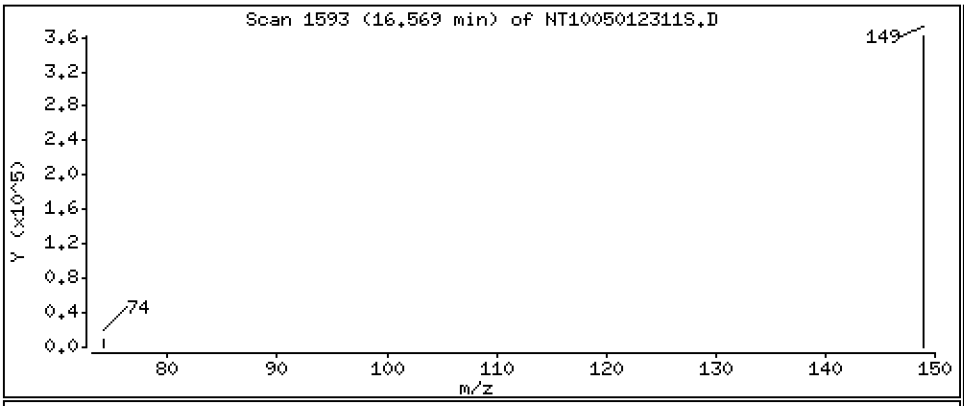
Operator: JGR

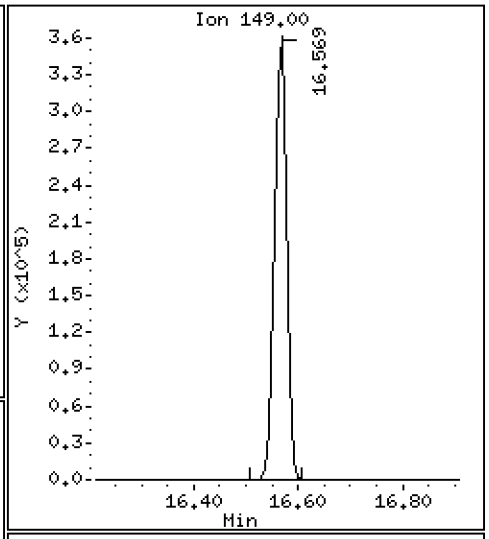
Column phase: ZB-5msi

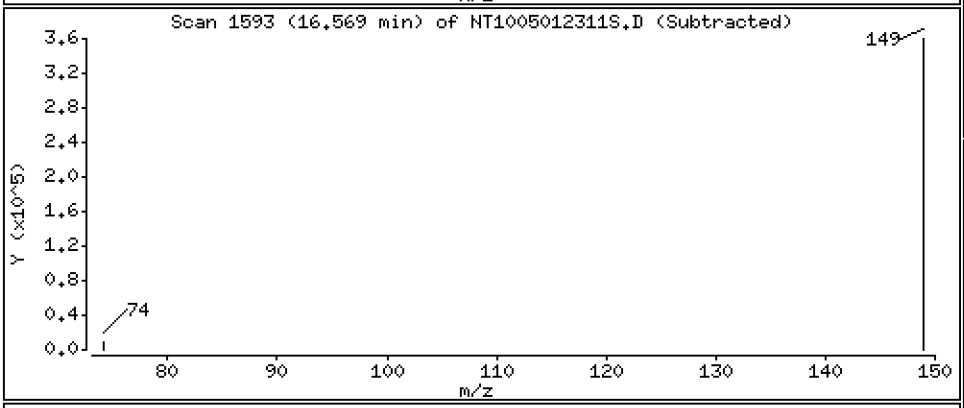
Column diameter: 0.25

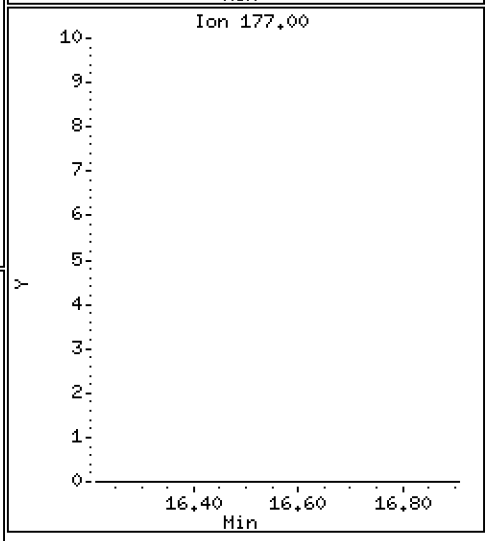
50 Diethylphthalate

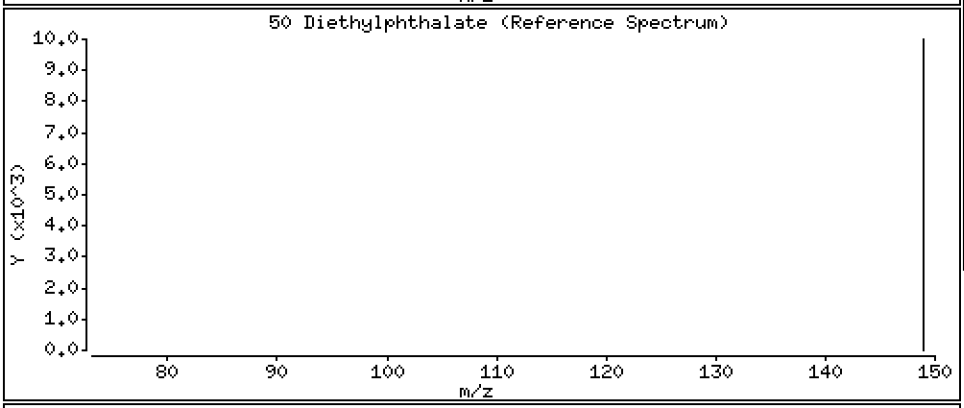
Concentration: 5.253 ug/L

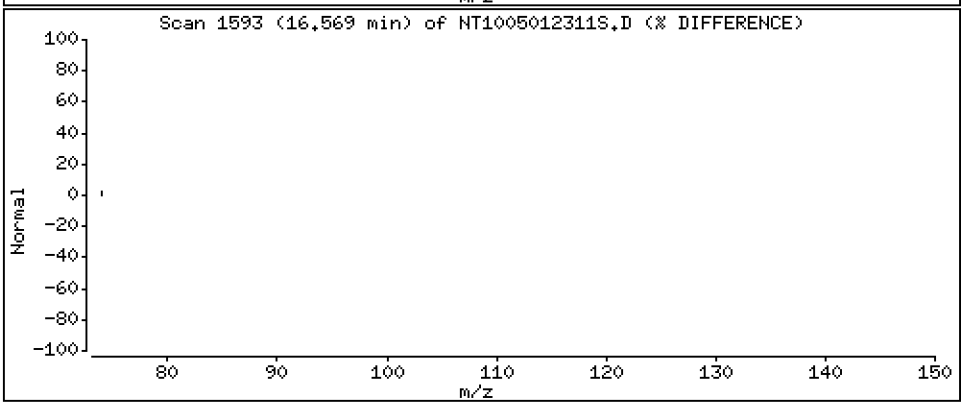












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

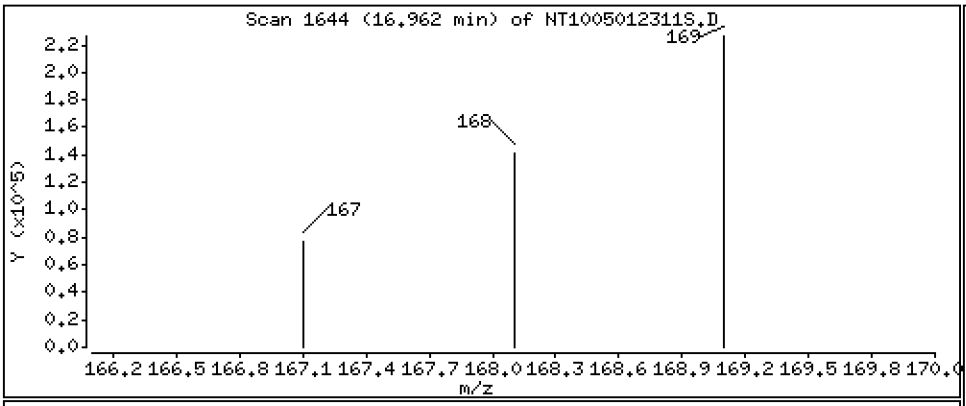
Operator: JGR

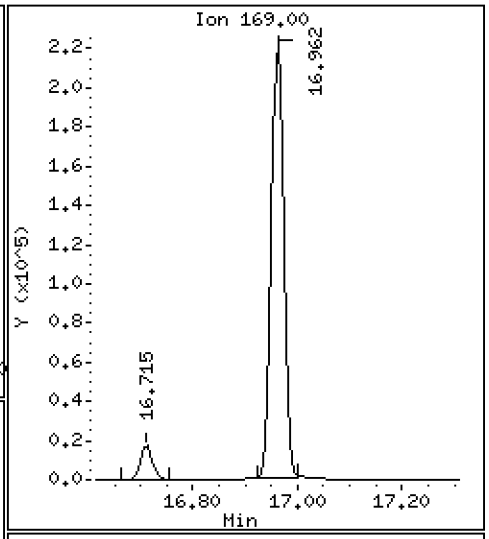
Column phase: ZB-5msi

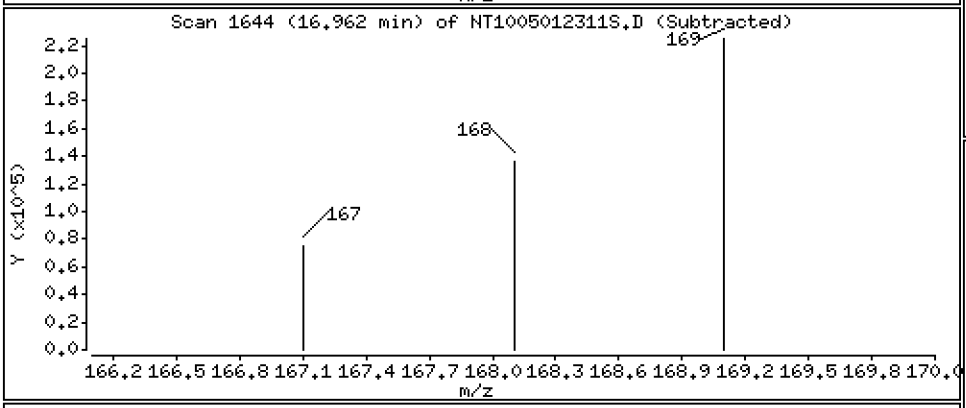
Column diameter: 0.25

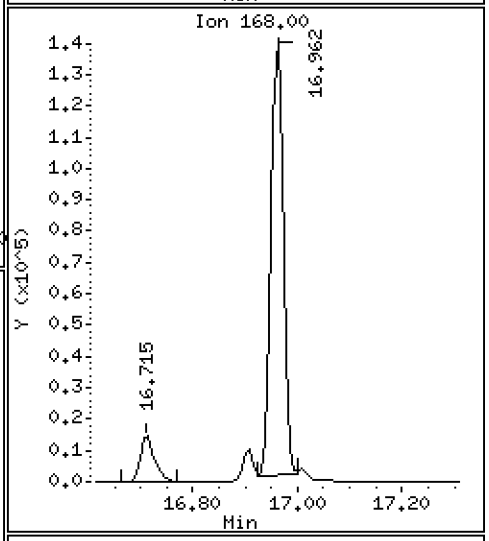
54 N-Nitrosodiphenylamine

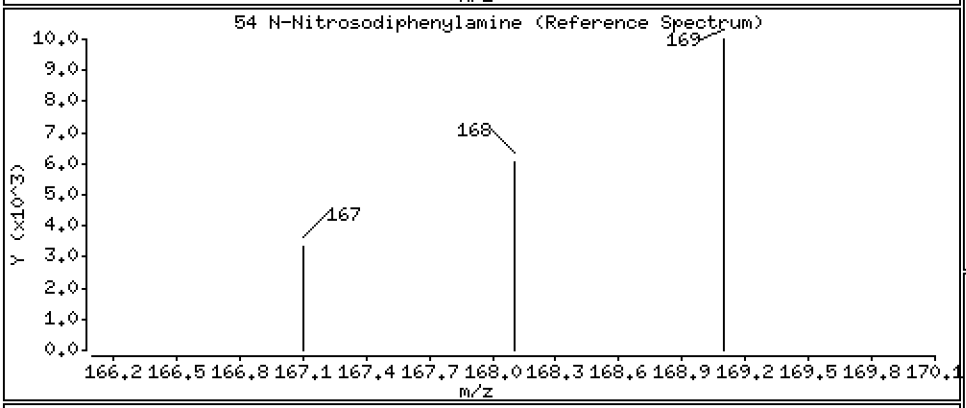
Concentration: 5.289 ug/L

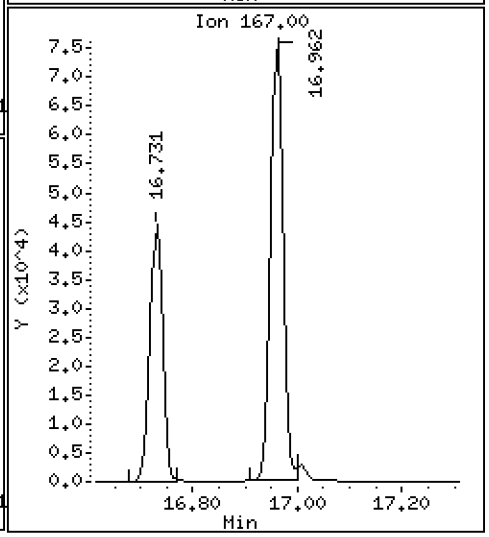


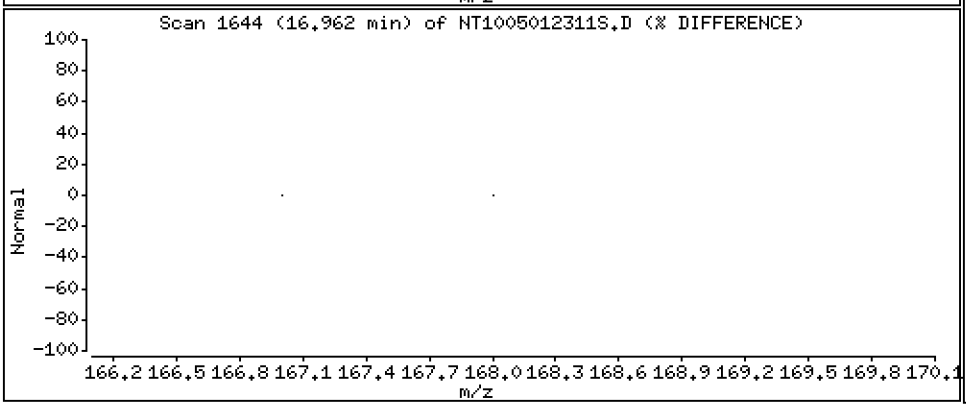












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

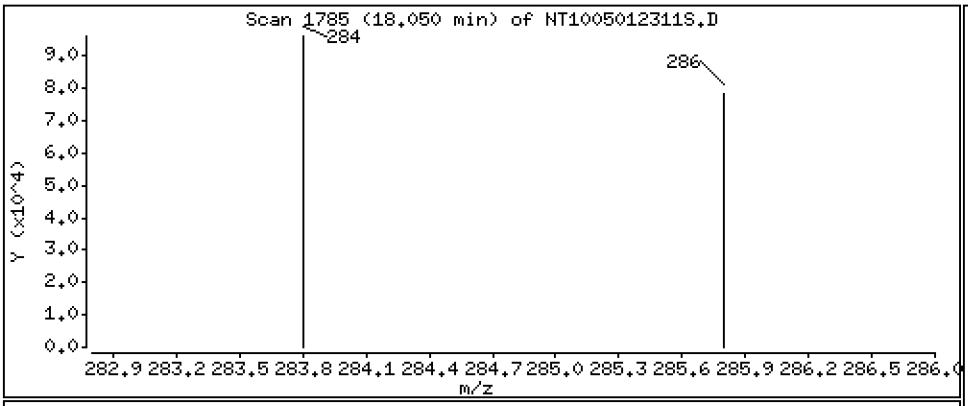
Operator: JGR

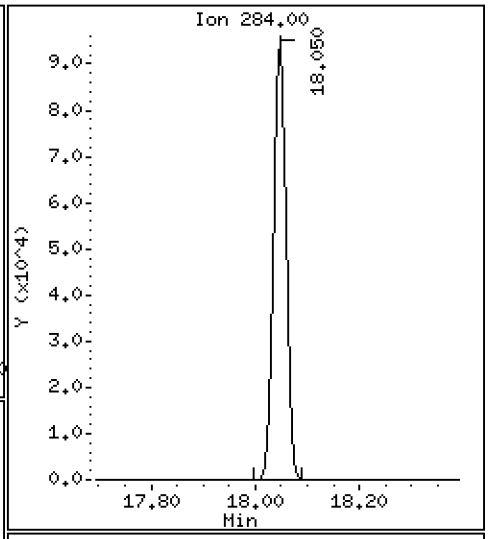
Column phase: ZB-5msi

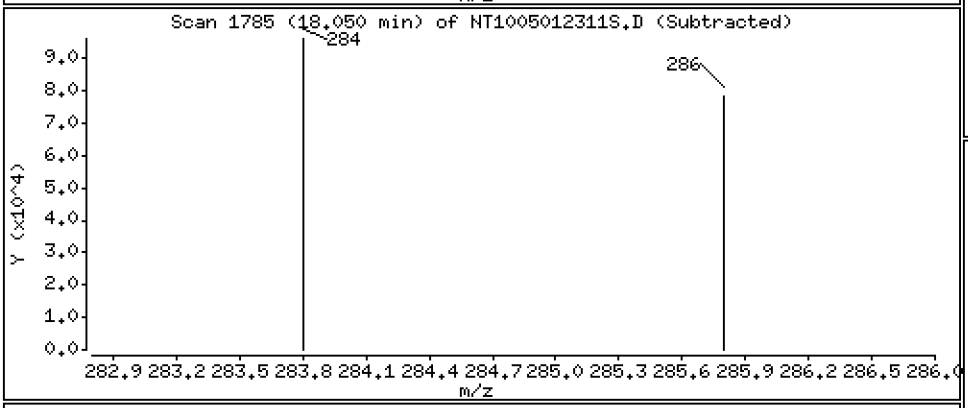
Column diameter: 0.25

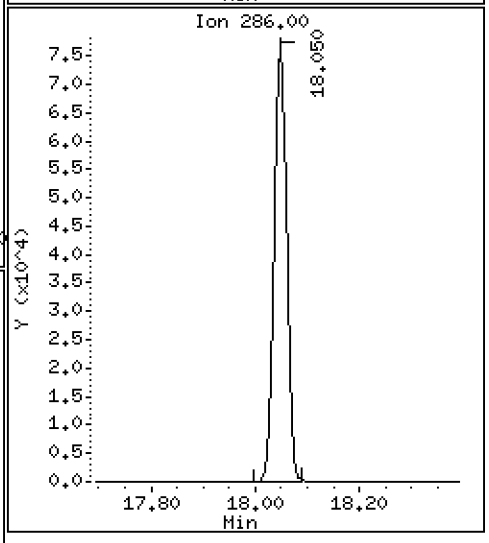
57 Hexachlorobenzene

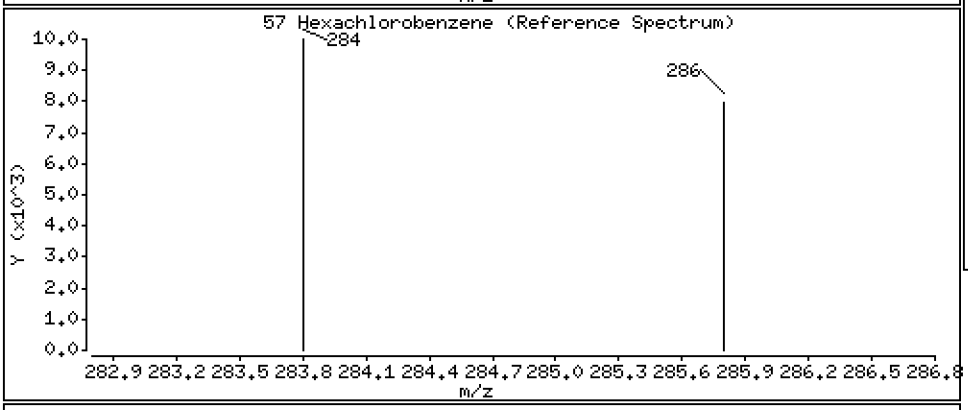
Concentration: 4.640 ug/L

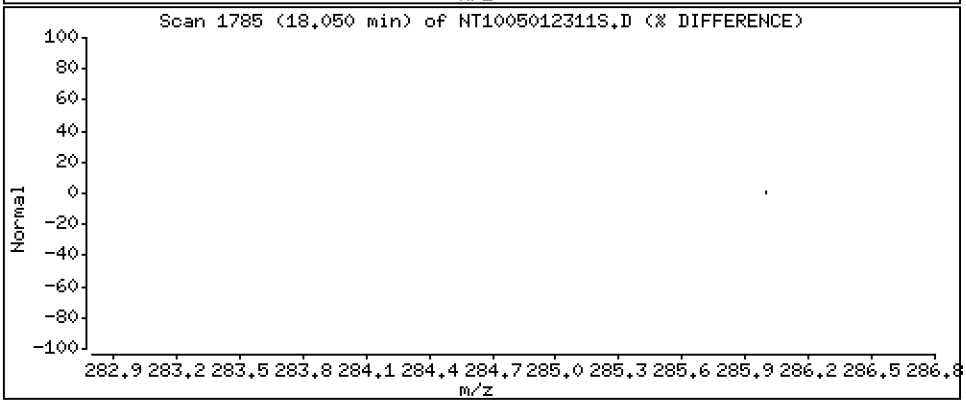












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

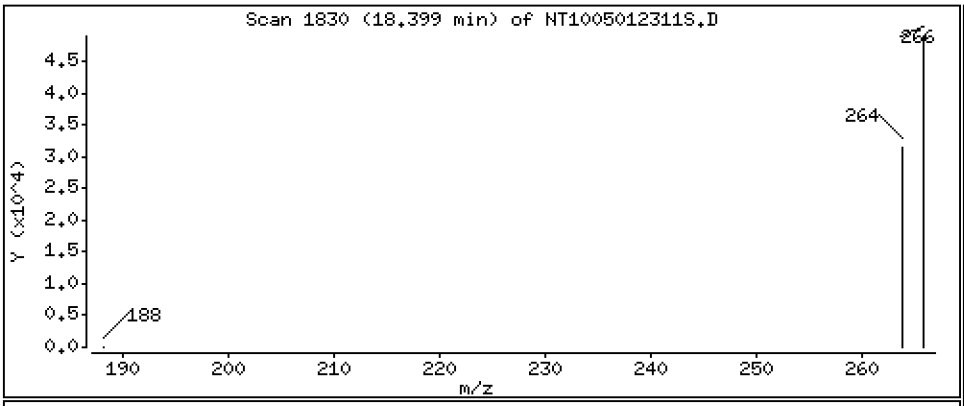
Operator: JGR

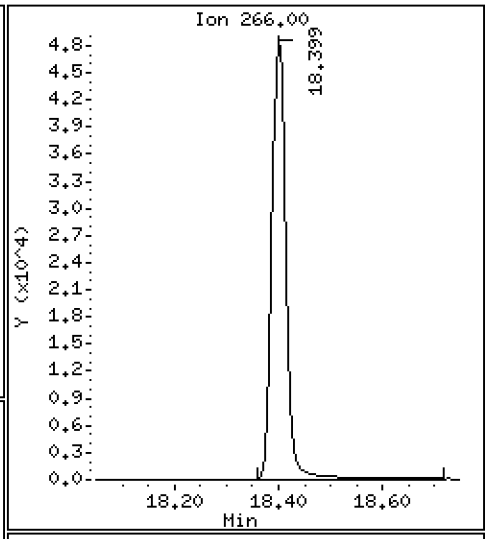
Column phase: ZB-5msi

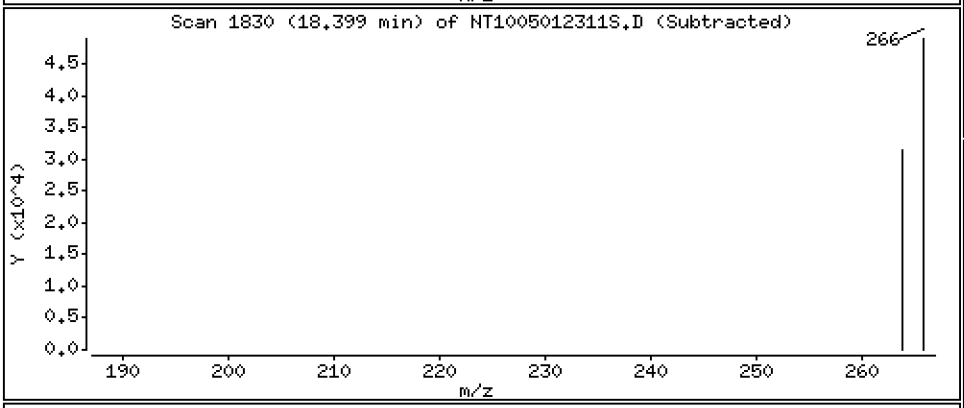
Column diameter: 0.25

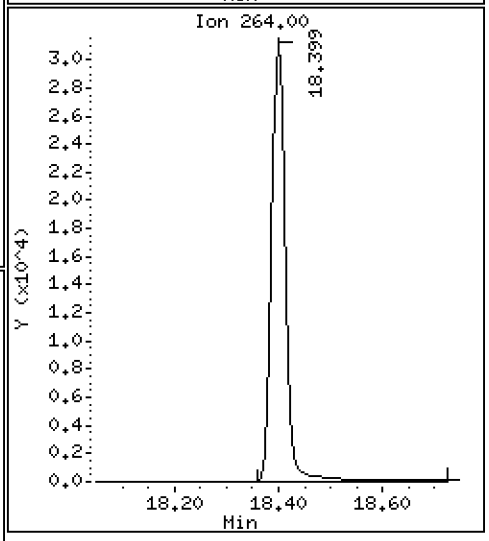
58 Pentachlorophenol

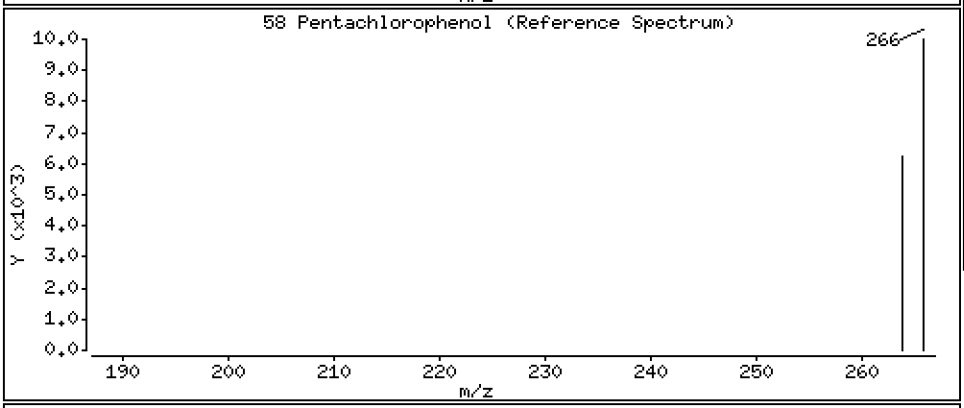
Concentration: 4.346 ug/L

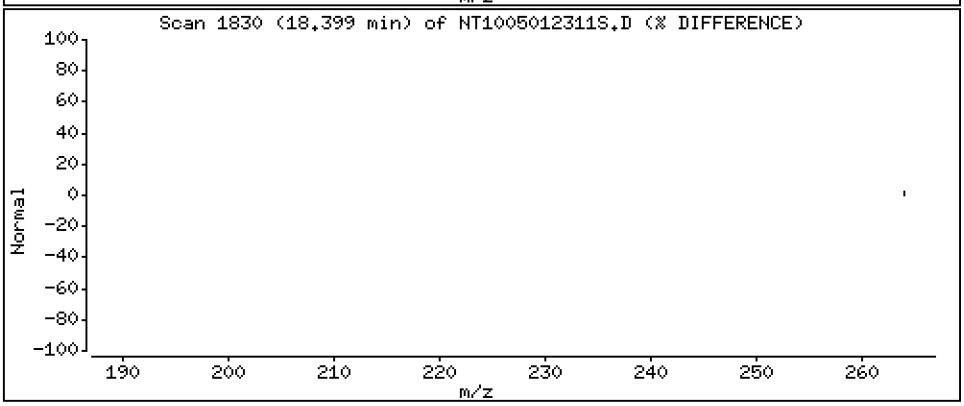












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

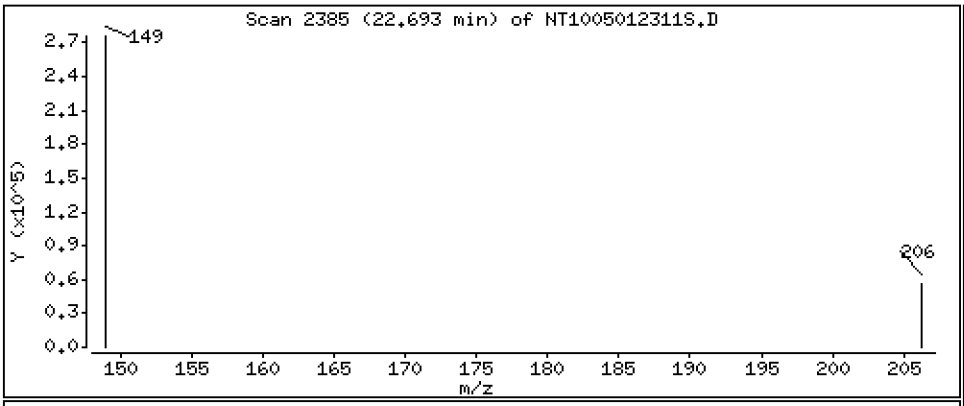
Operator: JGR

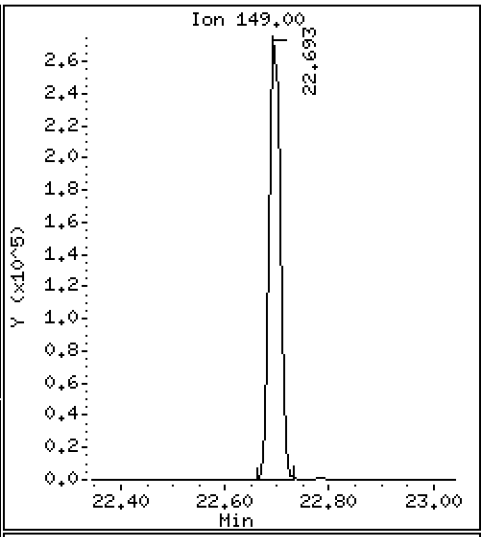
Column phase: ZB-5msi

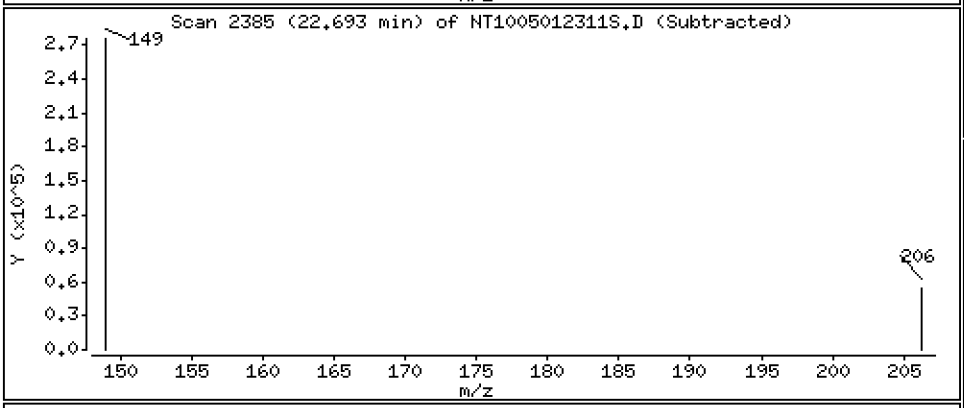
Column diameter: 0.25

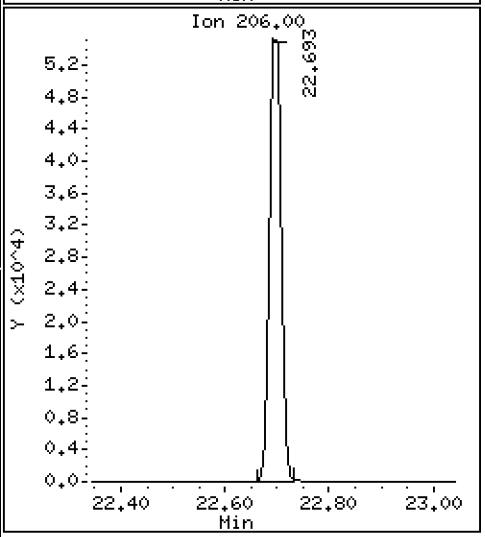
67 Butylbenzylphthalate

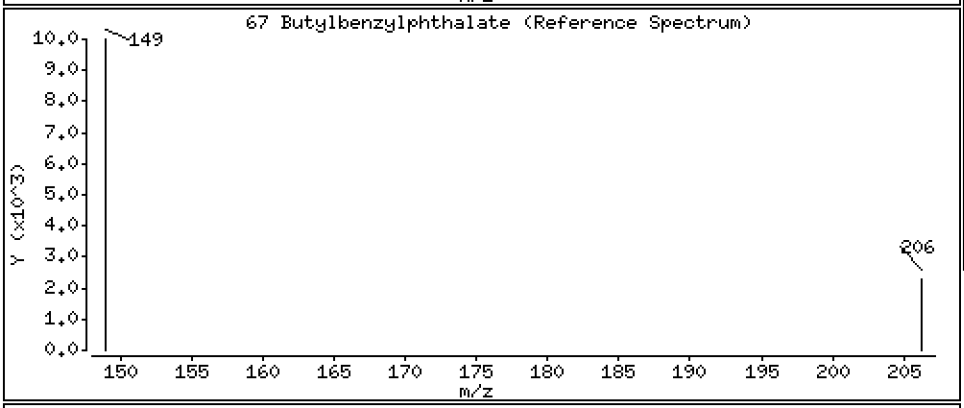
Concentration: 5.065 ug/L

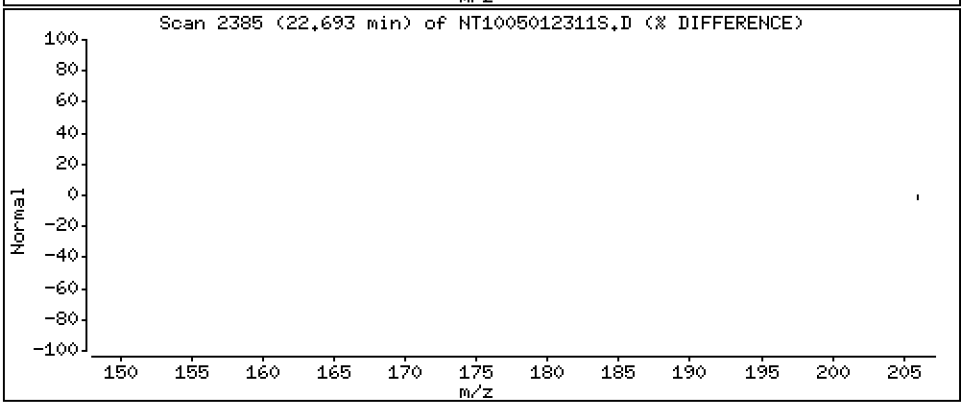












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

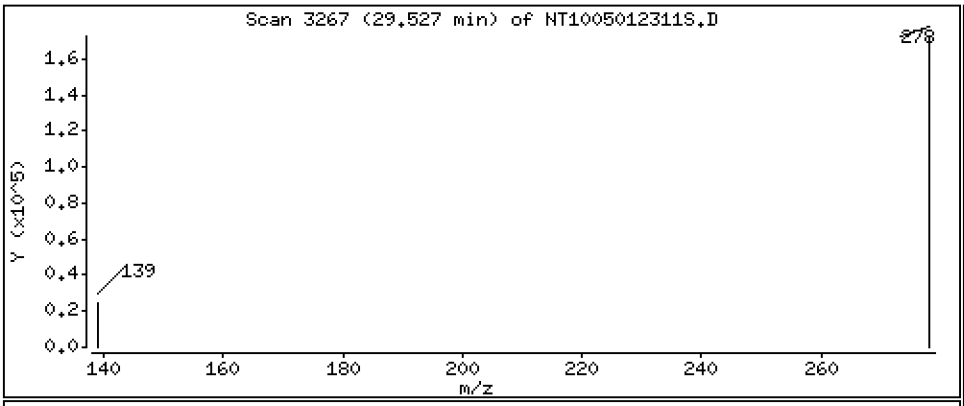
Operator: JGR

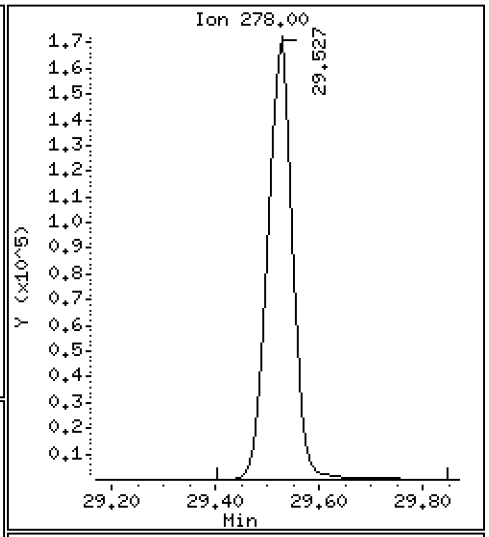
Column phase: ZB-5msi

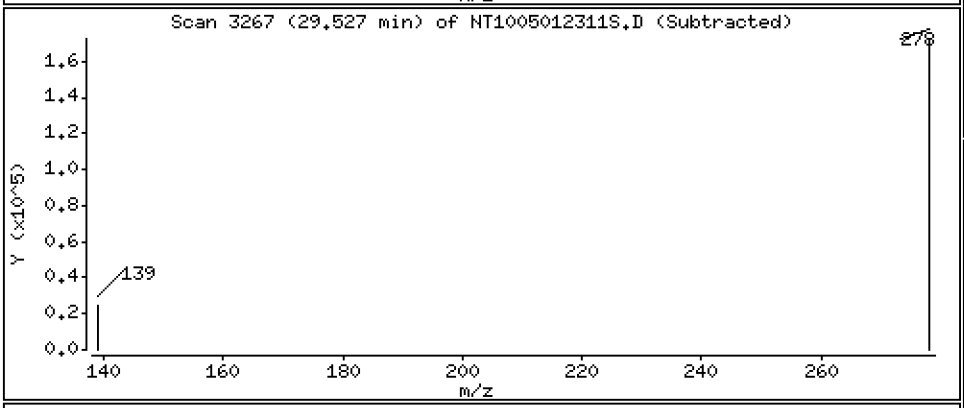
Column diameter: 0.25

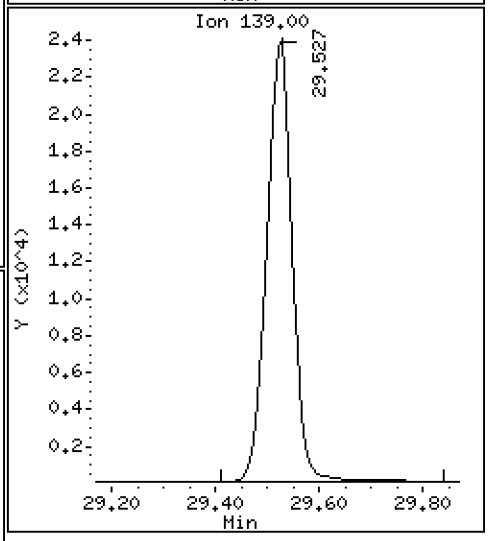
79 Dibenzo(a,h)anthracene

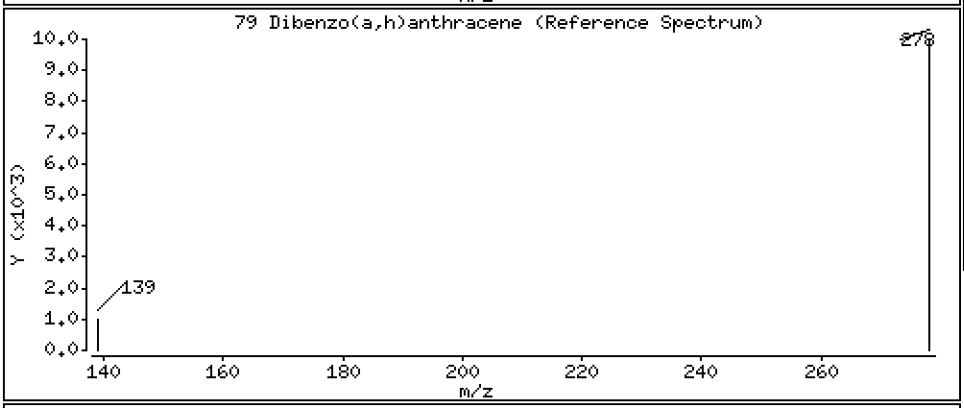
Concentration: 4.815 ug/L

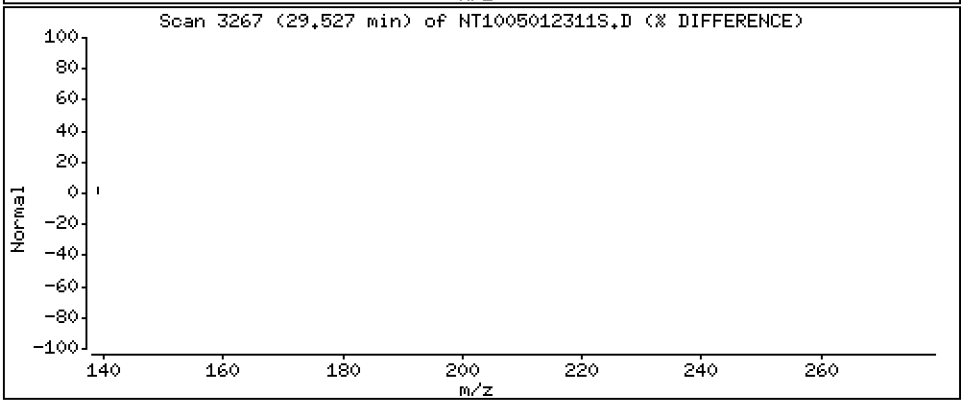












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

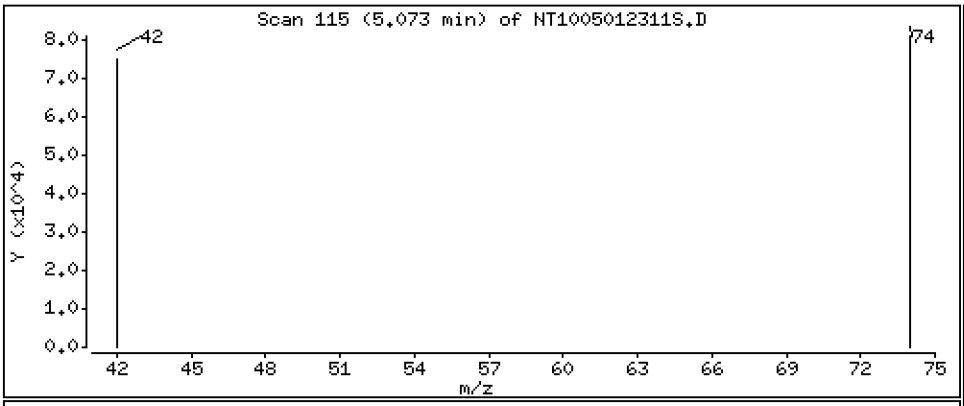
Operator: JGR

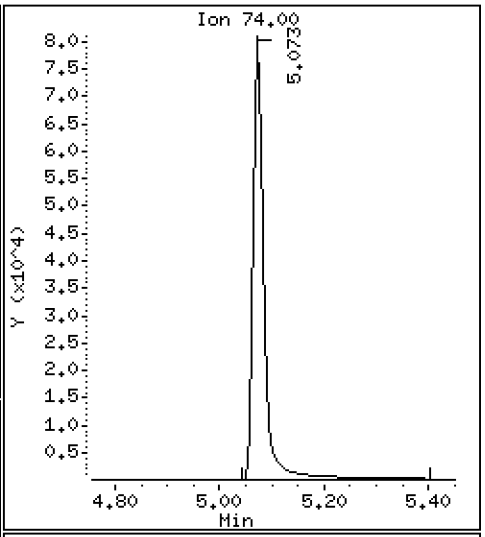
Column phase: ZB-5msi

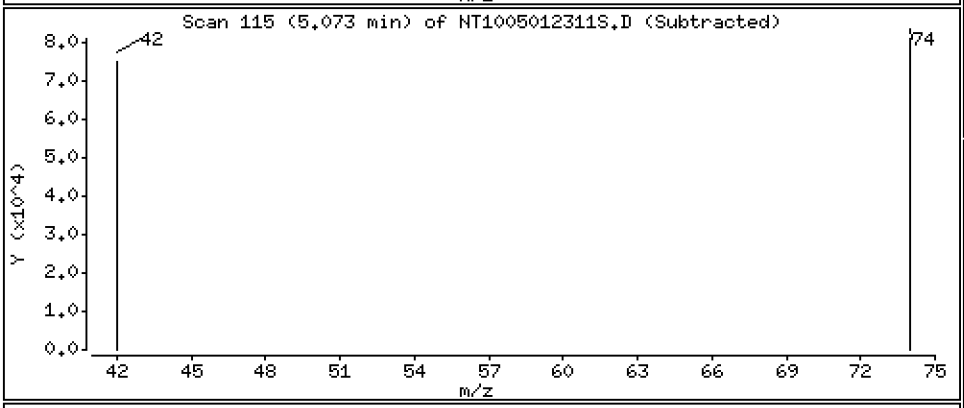
Column diameter: 0.25

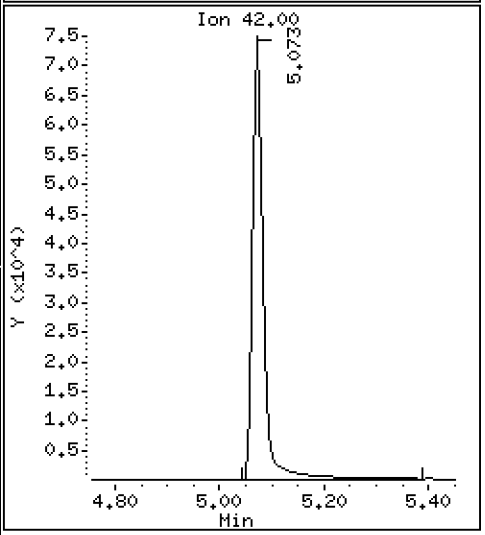
90 N-Nitrosodimethylamine

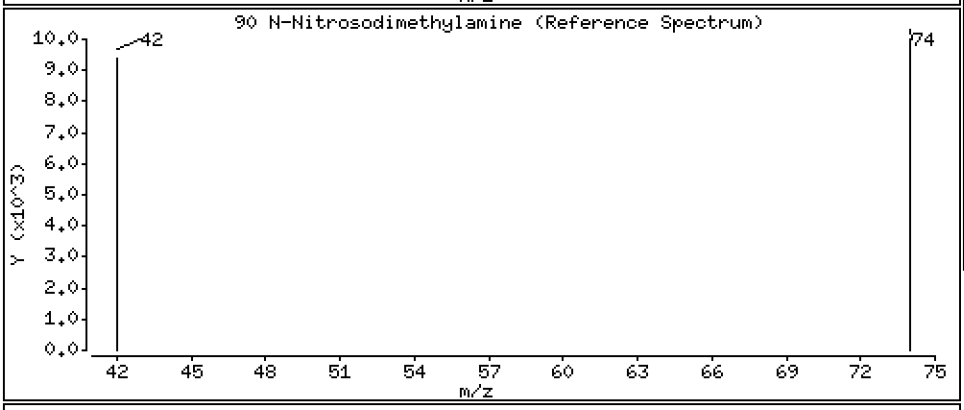
Concentration: 5.213 ug/L

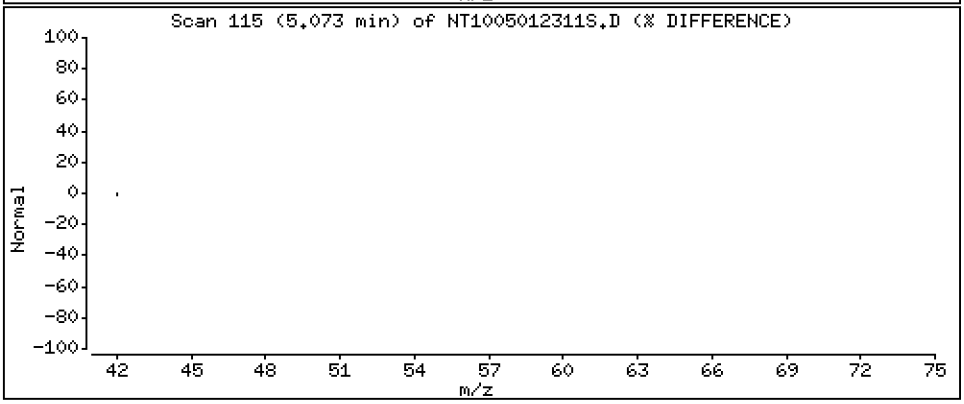












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Inj Date : 01-MAY-2023 20:43 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	1569	0.03614	0.03614(R)
3	Phenol	94	8.842	8.842	(0.932)	241257	4.43593	4.436
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	266593	4.66088	4.661
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	142531	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	271019	4.78410	4.784
11	Benzyl alcohol	79	9.748	9.756	(1.027)	198278	5.27178	5.272
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	253729	4.65664	4.657
13	2-Methylphenol	108	9.965	9.965	(1.050)	172706	4.24306	4.243
15	4-Methylphenol	108	10.237	10.237	(1.079)	191289	4.46966	4.470
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	162670	5.26784	5.268
22	2,4-Dimethylphenol	107	10.237	10.229	(0.854)	211770	7.26094	7.261
24	Benzoic acid	105	11.432	11.373	(0.954)	283387	8.32169	8.322
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	224651	4.32072	4.321
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	510045	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	153764	4.63178	4.632
39	Dimethylphthalate	163	15.106	15.107	(0.967)	487893	4.87533	4.875
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	263993	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.061)	564424	5.25278	5.253
54	N-Nitrosodiphenylamine	169	16.962	16.962	(0.908)	349152	5.28852	5.289
57	Hexachlorobenzene	284	18.050	18.042	(0.966)	150021	4.64019	4.640

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.398	(0.985)	87352	4.34597	4.346
*	59 Phenanthrene-d10	188	18.677	18.677	(1.000)	506239	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	2121	0.02441	0.02441(R)
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	378823	5.06538	5.065
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	402889	4.00000	
*	77 Perylene-d12	264	26.533	26.533	(1.000)	365734	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.527	29.519	(1.113)	568400	4.81466	4.815
	90 N-Nitrosodimethylamine	74	5.072	5.103	(0.534)	123469	5.21274	5.213

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	142531	-15.75
27 Naphthalene-d8	594924	297462	1189848	510045	-14.27
42 Acenaphthene-d10	304980	152490	609960	263993	-13.44
59 Phenanthrene-d10	609190	304595	1218380	506239	-16.90
69 Chrysene-d12	479061	239531	958122	402889	-15.90
77 Perylene-d12	427162	213581	854324	365734	-14.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005012311S.D

Lab ID: SLE0082-SCV1
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123128.D

Date : 01-MAY-2023 21:22

Client ID:

Instrument: nt10.i

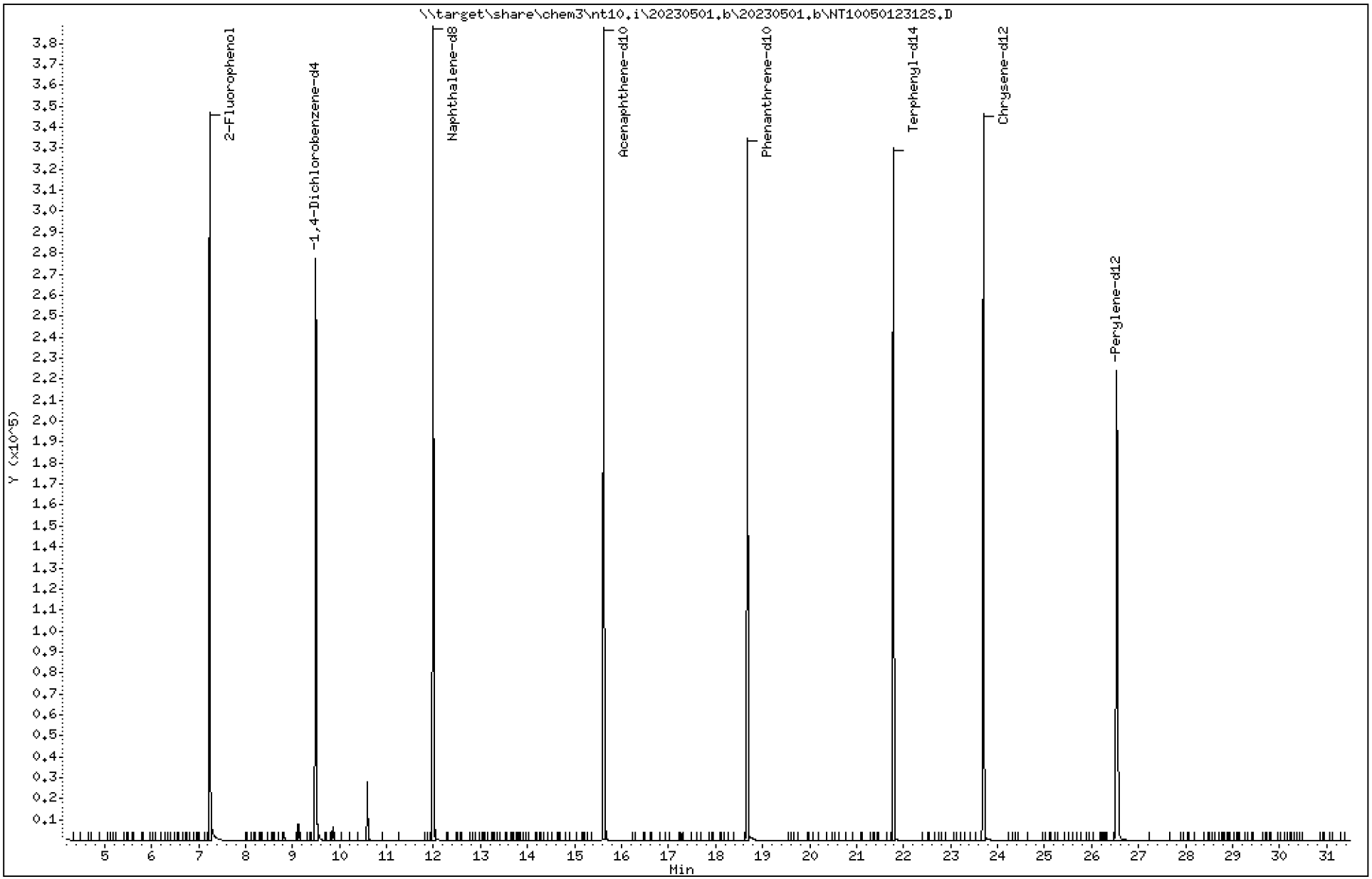
Sample Info: SLE0082-ICB1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1825 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123125.D

Date : 01-MAY-2023 21:22

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-ICB1

Volume Injected (uL): 1.0

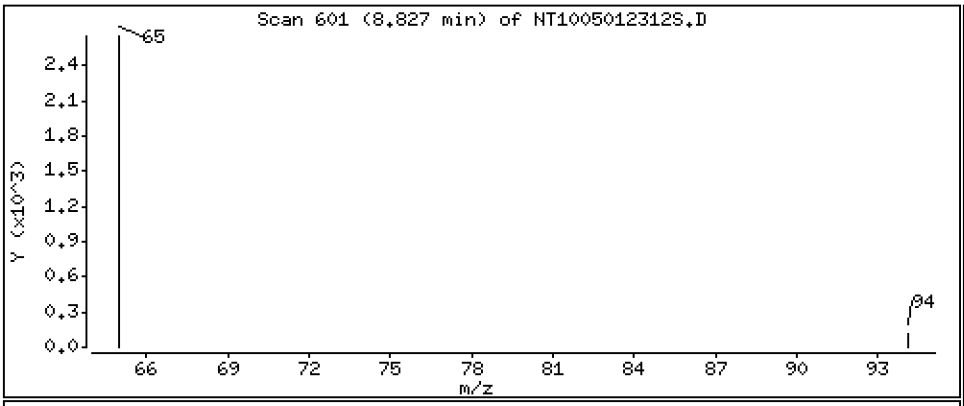
Operator: JGR

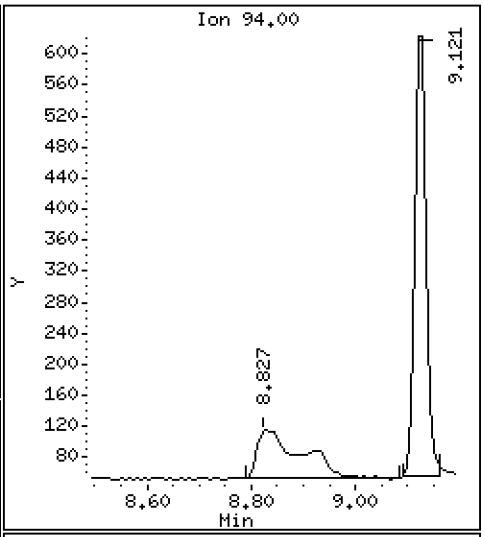
Column phase: ZB-5msi

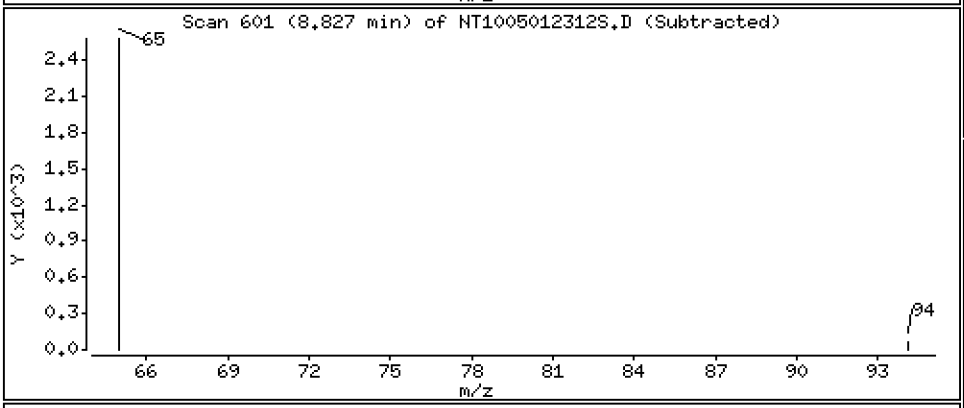
Column diameter: 0.25

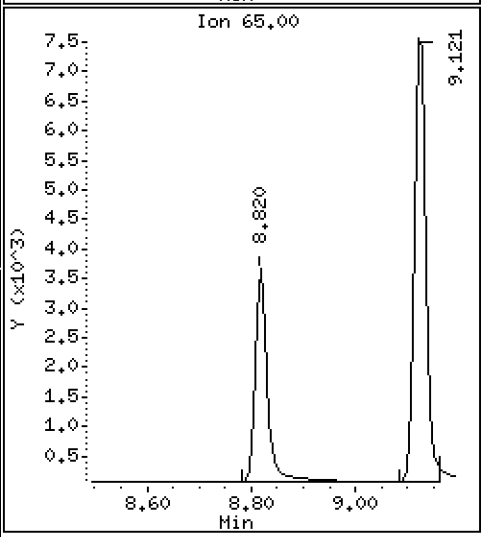
3 Phenol

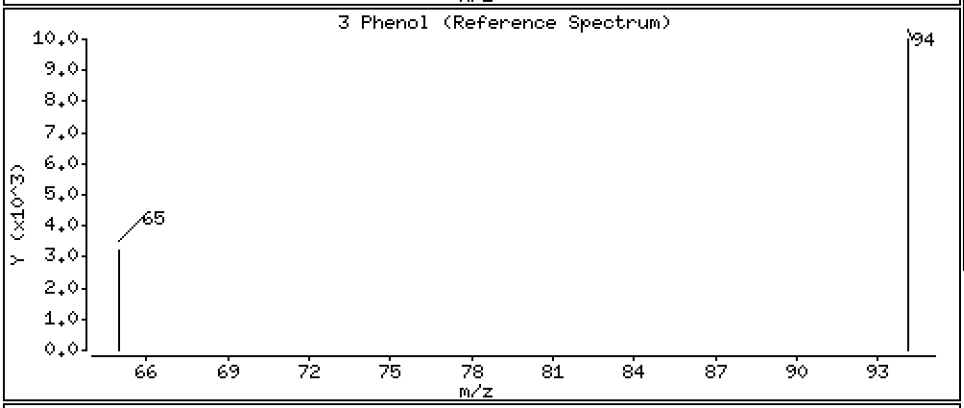
Concentration: 0.005707 ug/L

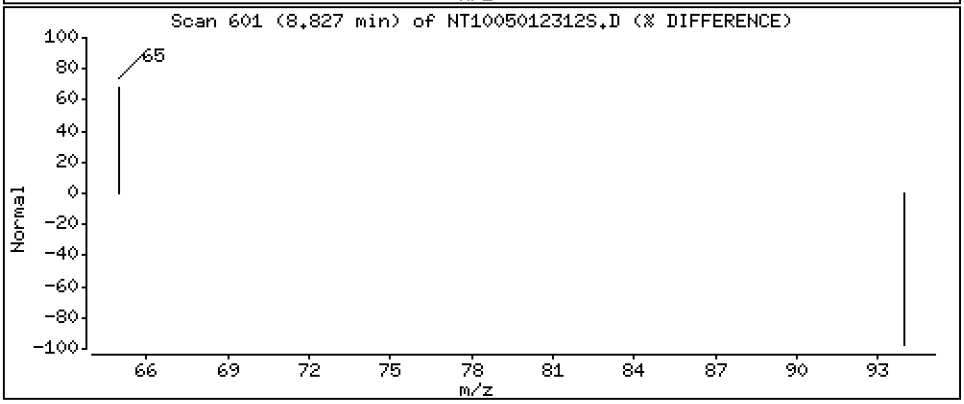












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012312S.D
Lab Smp Id: SLE0082-ICB1
Inj Date : 01-MAY-2023 21:22 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-ICB1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	339281	6.73694	6.737(R)
3	Phenol	94	8.827	8.842	(0.930)	360	0.00571	0.005707
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	165323	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	79	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	600558	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	293573	4.00000	
50	Diethylphthalate	149	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.676	18.677	(1.000)	566241	4.00000	
$	66 Terphenyl-d14	244	21.787	21.779	(0.919)	412405	4.33743	4.337(R)
	67 Butylbenzylphthalate	149	Compound Not Detected.					
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	440951	4.00000	
*	77 Perylene-d12	264	26.540	26.533	(1.000)	417631	4.00000	
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012312S.D
Lab Smp Id: SLE0082-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	165323	-2.28
27 Naphthalene-d8	594924	297462	1189848	600558	0.95
42 Acenaphthene-d10	304980	152490	609960	293573	-3.74
59 Phenanthrene-d10	609190	304595	1218380	566241	-7.05
69 Chrysene-d12	479061	239531	958122	440951	-7.96
77 Perylene-d12	427162	213581	854324	417631	-2.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.54	0.00

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

REVIEW SUMMARY FOR FILE - NT1005012312S.D

Lab ID: SLE0082-ICB1
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 21:22

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00018
Laboratory ID: SLE0082-SCV1
Sequence: SLE0082
Sequence Name: SCV 5.0
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.8	-4.3	20.00
1,2-Dichlorobenzene	5.0000	4.7	-6.9	20.00
Benzyl Alcohol	5.0000	5.3	5.4	20.00
Benzoic acid	10.000	8.3	-16.8	20.00
2,4-Dimethylphenol	5.0000	3.5	-30.2 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.3	-13.6	20.00
N-Nitrosodiphenylamine	5.0000	5.3	5.8	20.00
Pentachlorophenol	5.0000	4.3	-13.1	20.00
2-Fluorophenol	7.5000	0.0361	-99.5	
p-Terphenyl-d14	5.0000	0.0244	-99.5	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

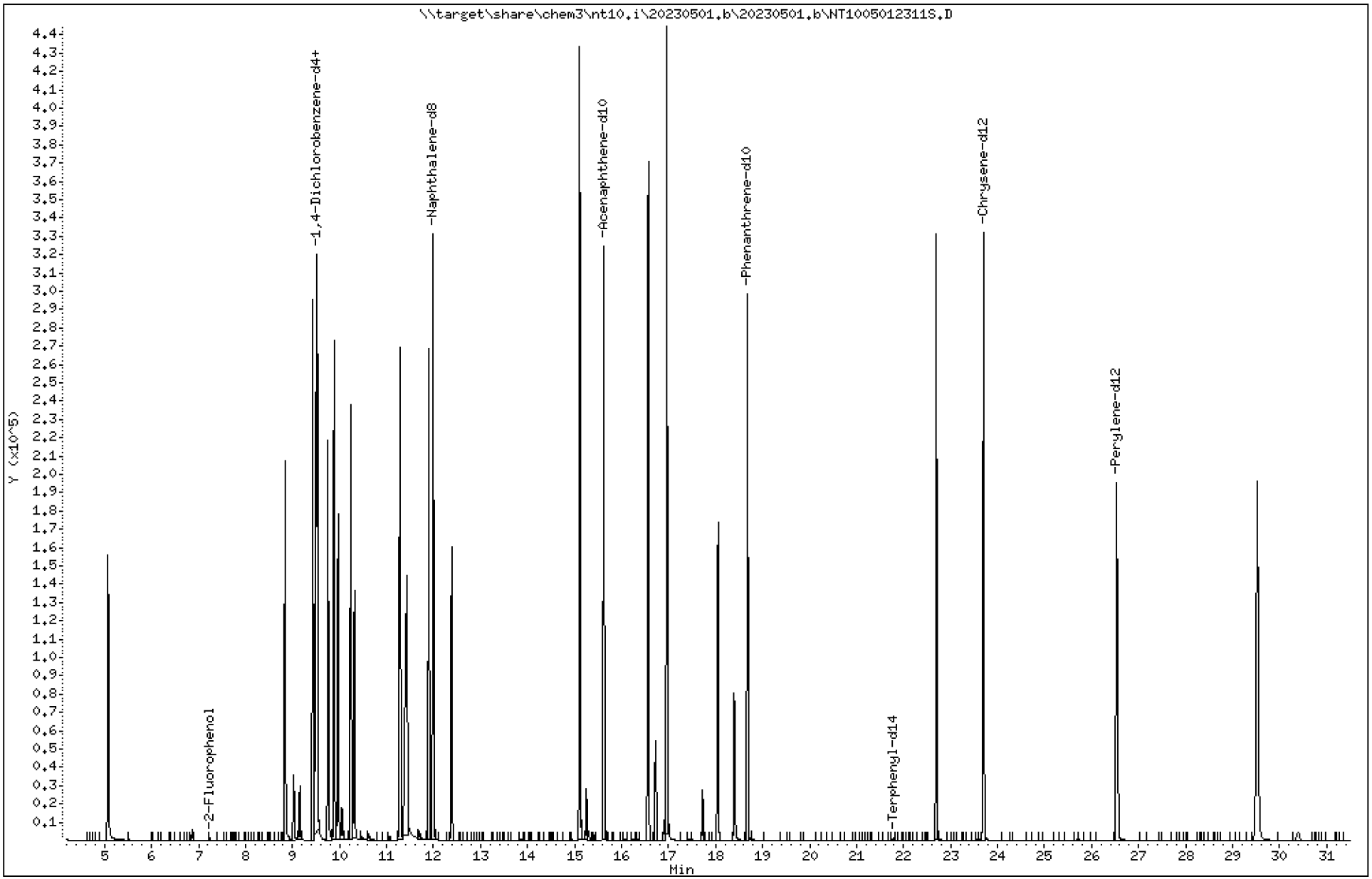
Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1832 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

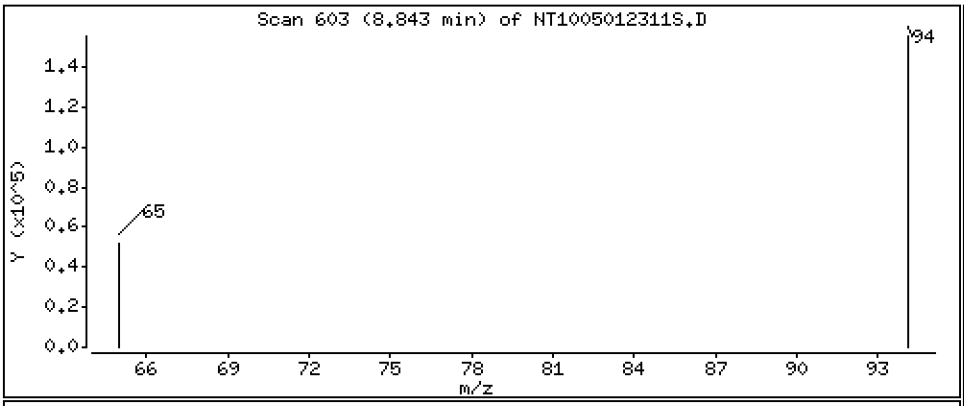
Operator: JGR

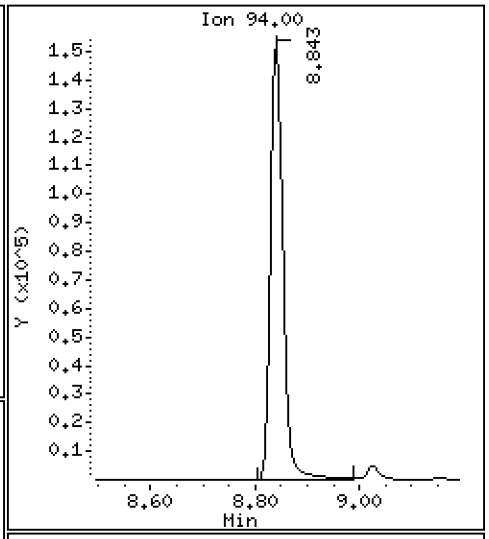
Column phase: ZB-5msi

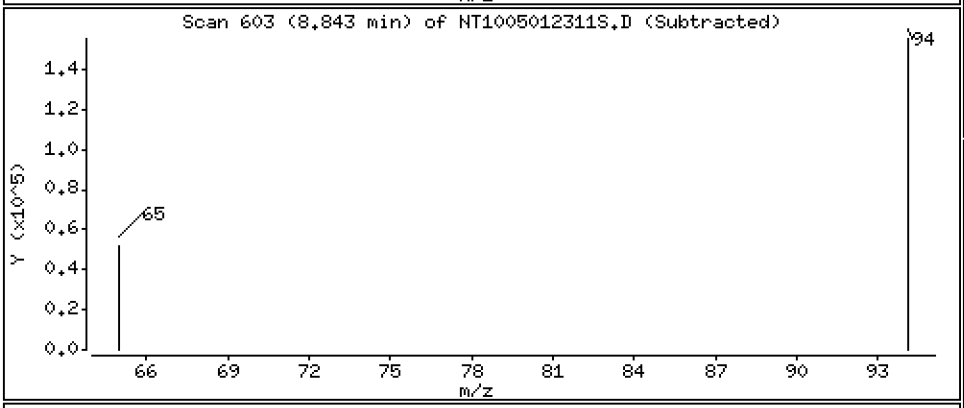
Column diameter: 0.25

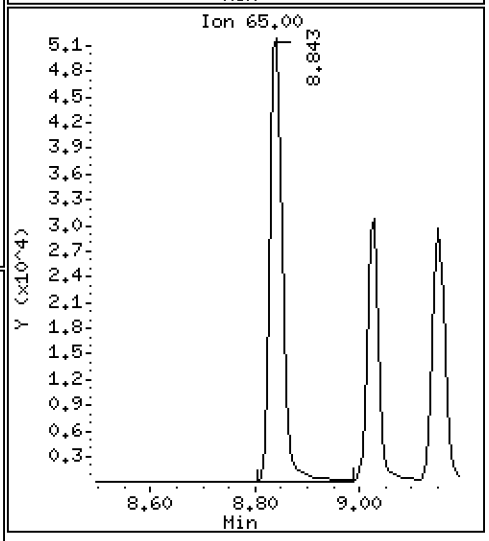
3 Phenol

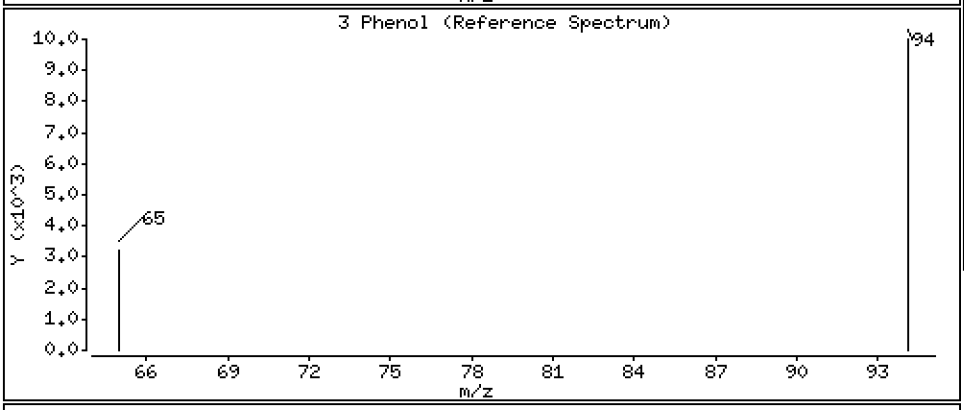
Concentration: 4.436 ug/L

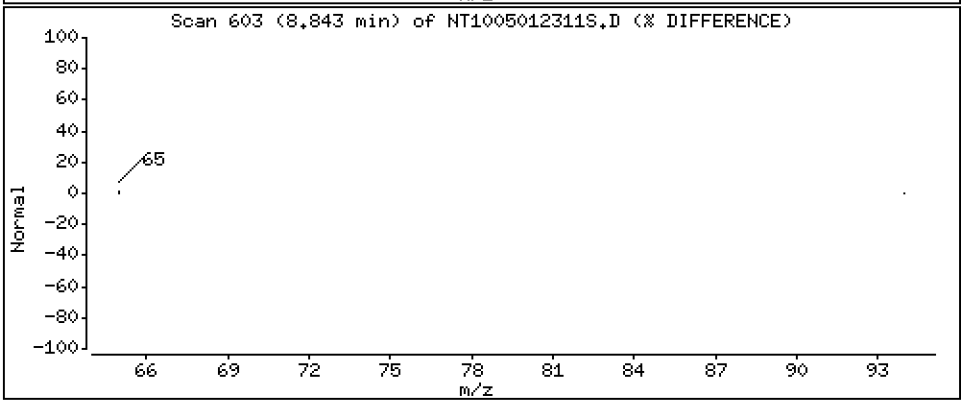












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

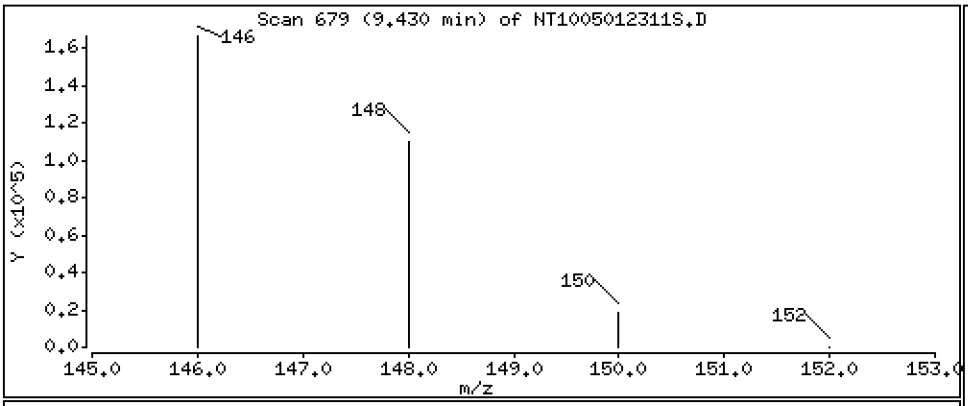
Operator: JGR

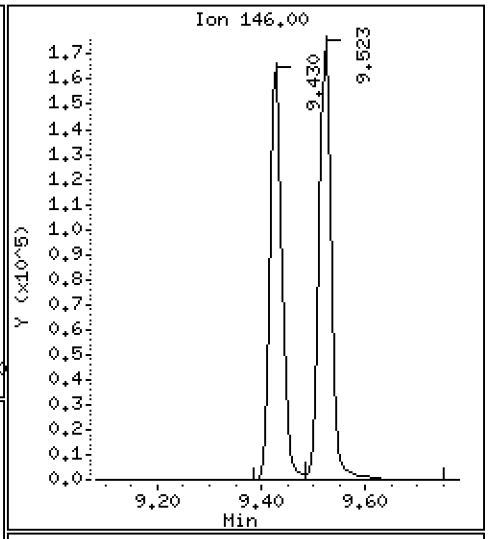
Column phase: ZB-5msi

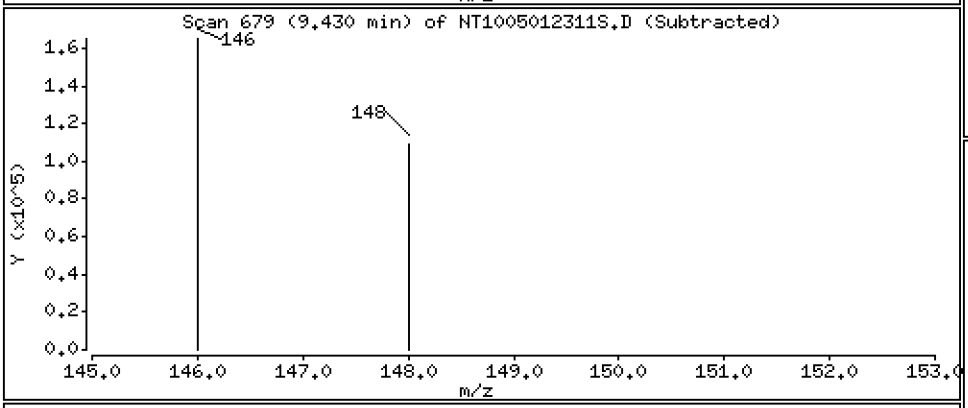
Column diameter: 0.25

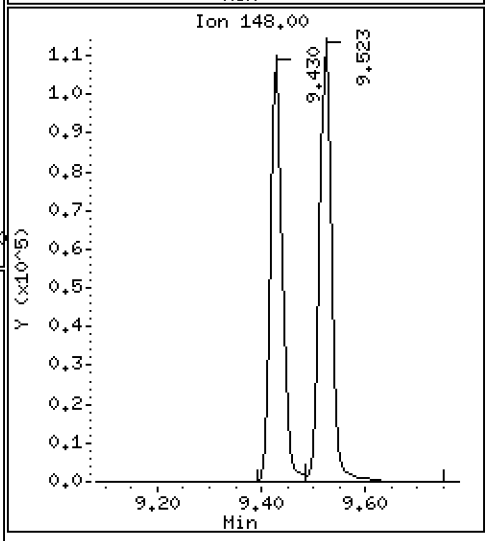
7 1,3-Dichlorobenzene

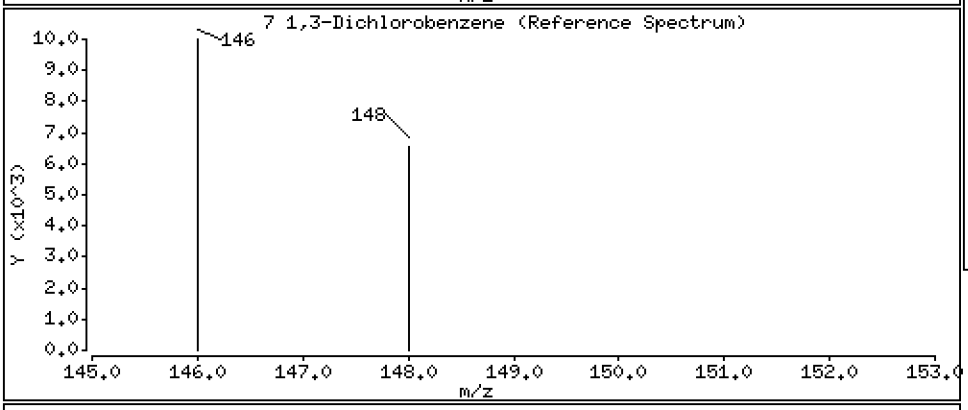
Concentration: 4.661 ug/L

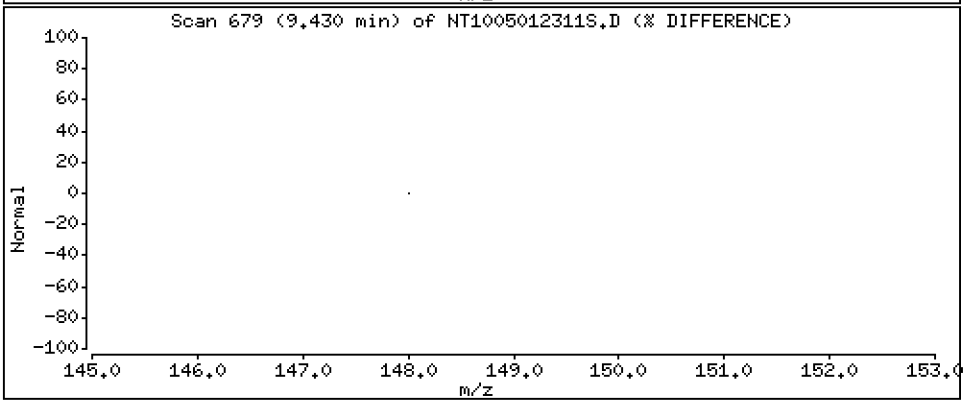












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

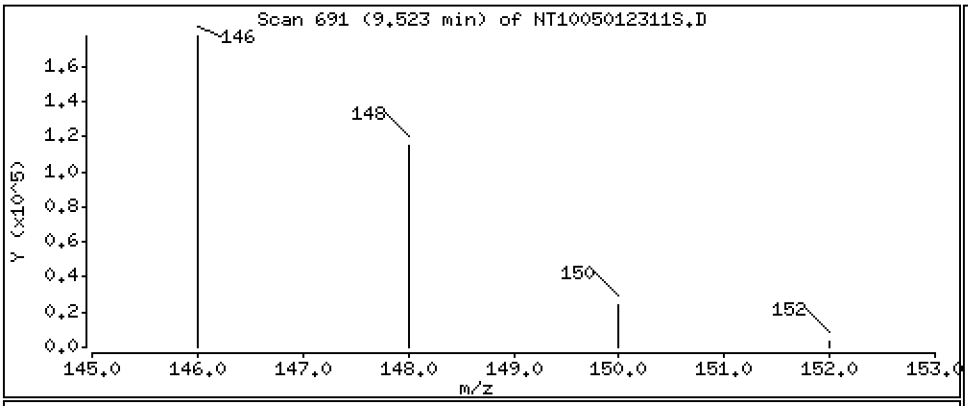
Operator: JGR

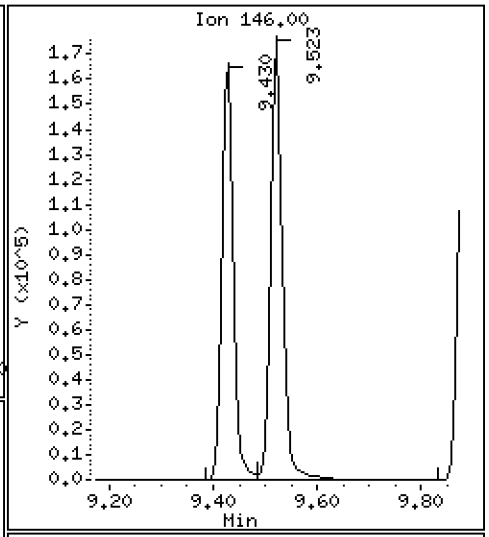
Column phase: ZB-5msi

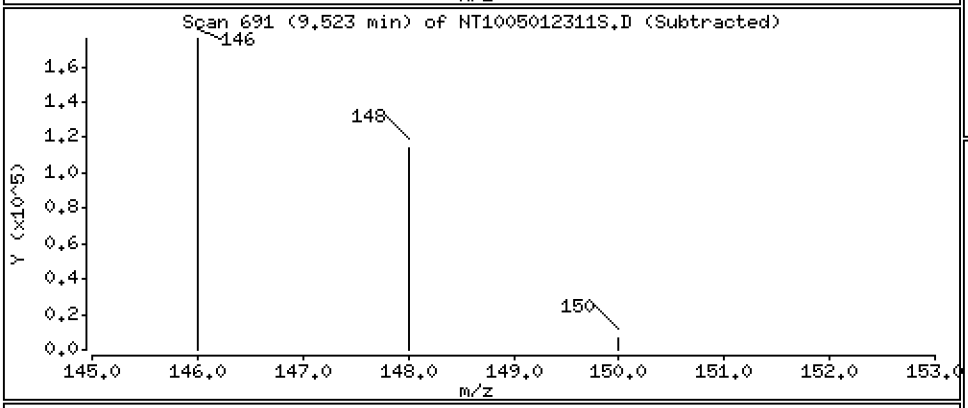
Column diameter: 0.25

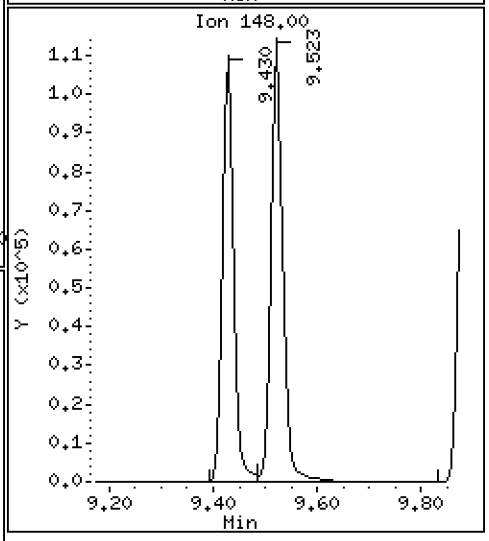
9 1,4-Dichlorobenzene

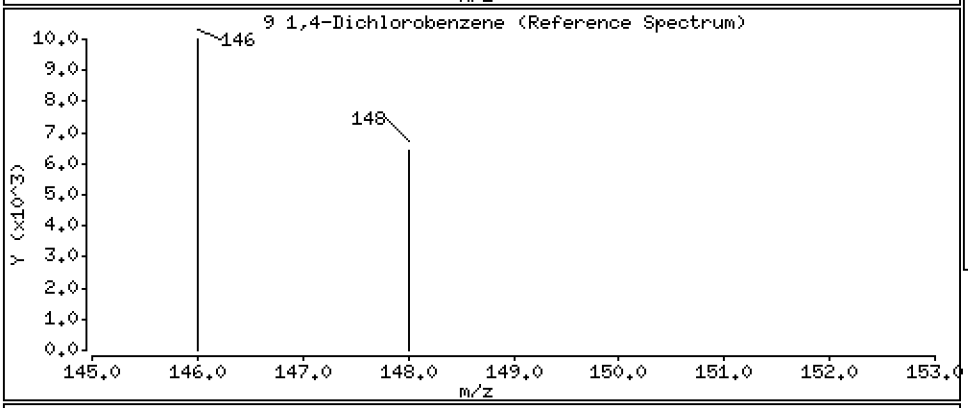
Concentration: 4.784 ug/L

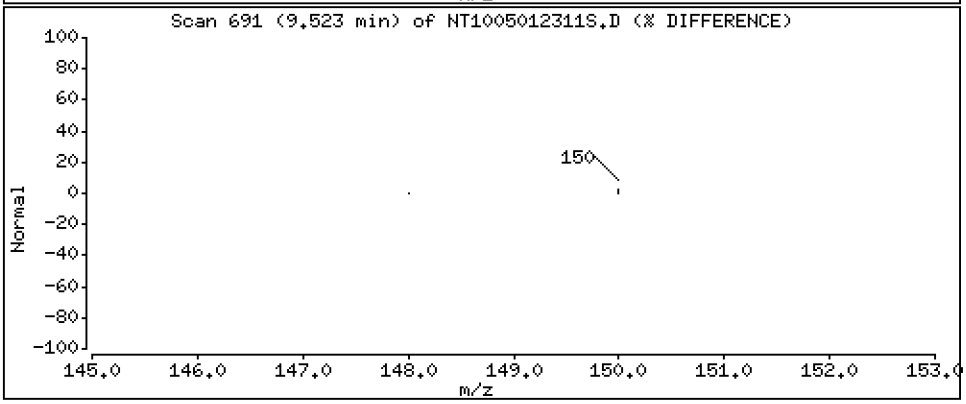












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

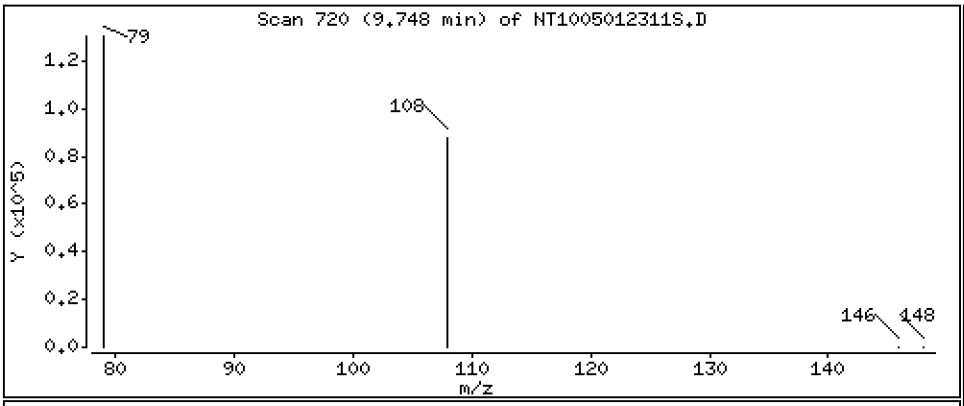
Operator: JGR

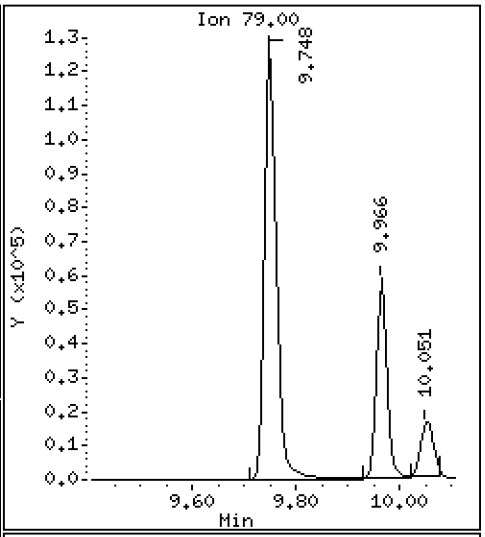
Column phase: ZB-5msi

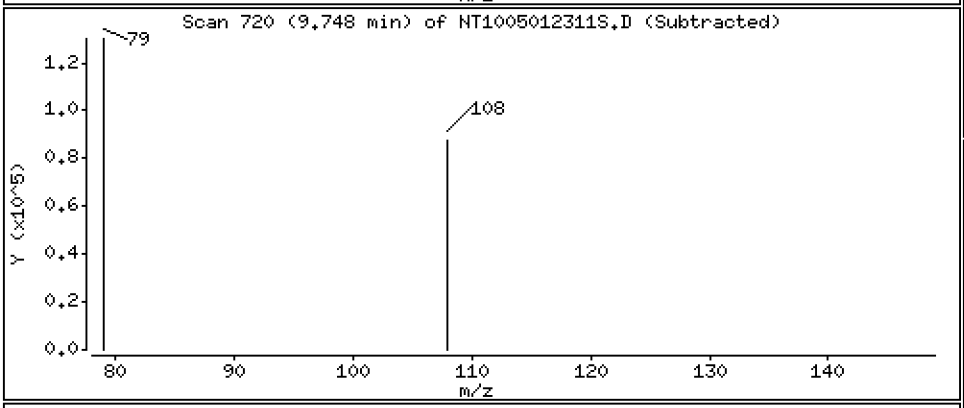
Column diameter: 0.25

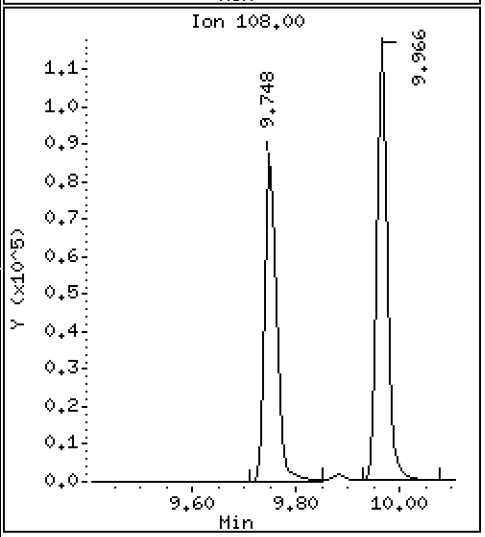
11 Benzyl alcohol

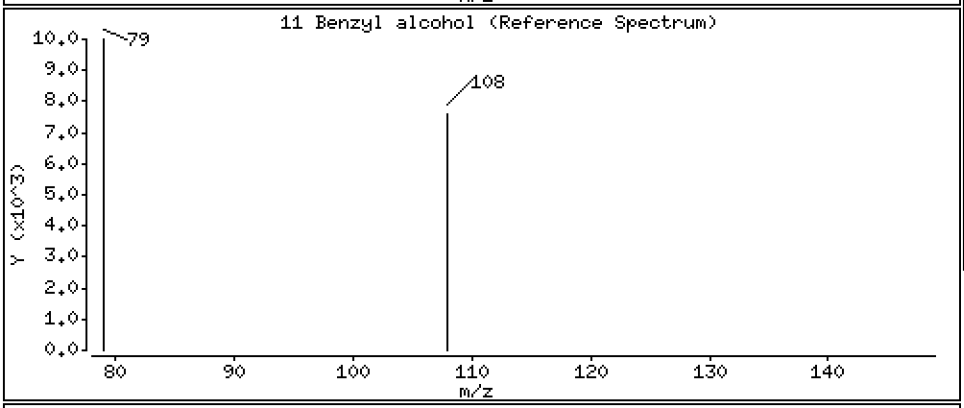
Concentration: 5.272 ug/L

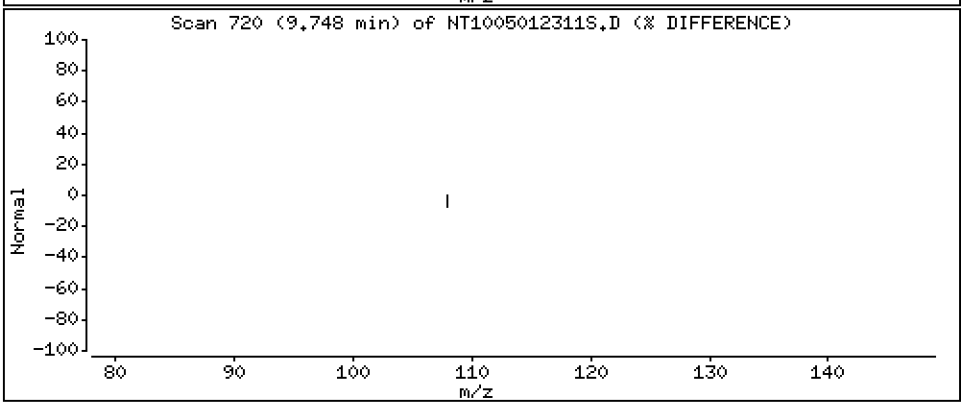












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

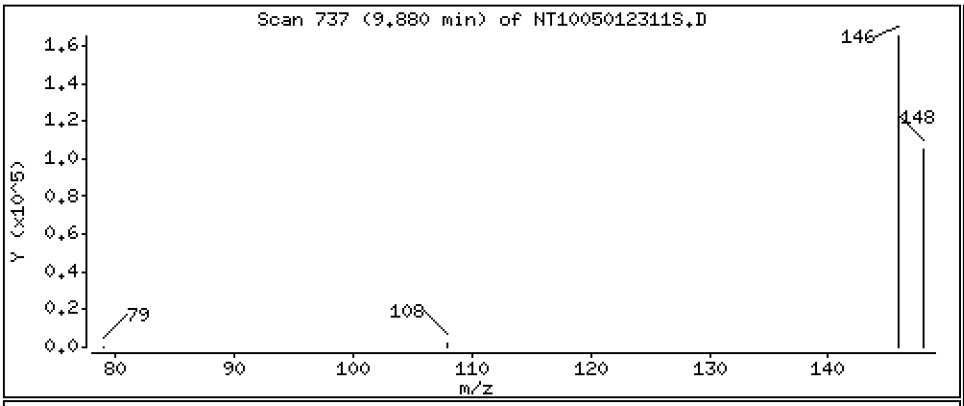
Operator: JGR

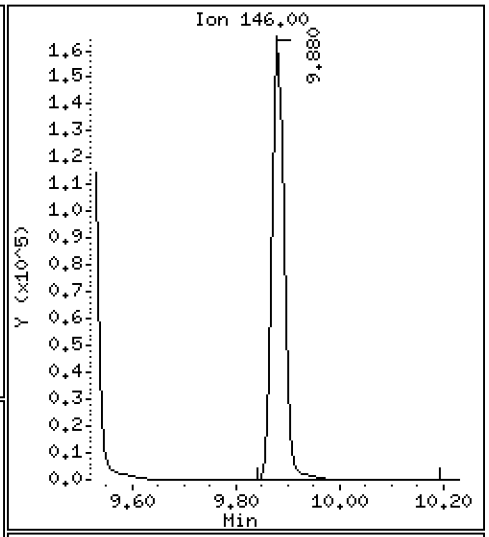
Column phase: ZB-5msi

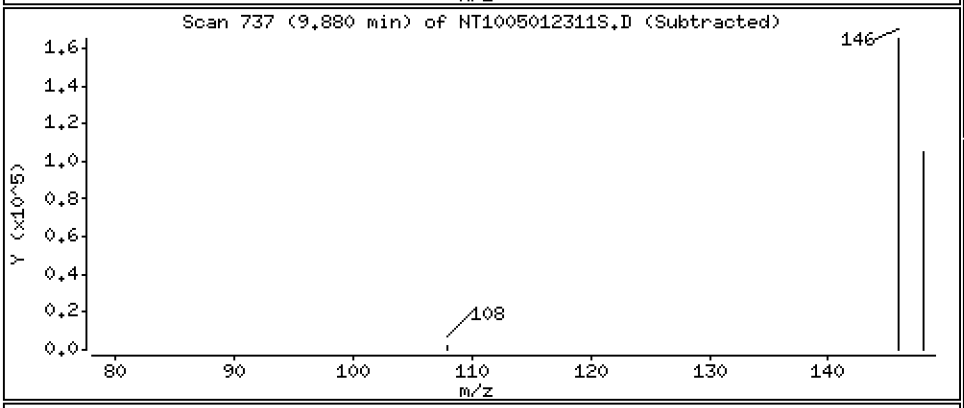
Column diameter: 0.25

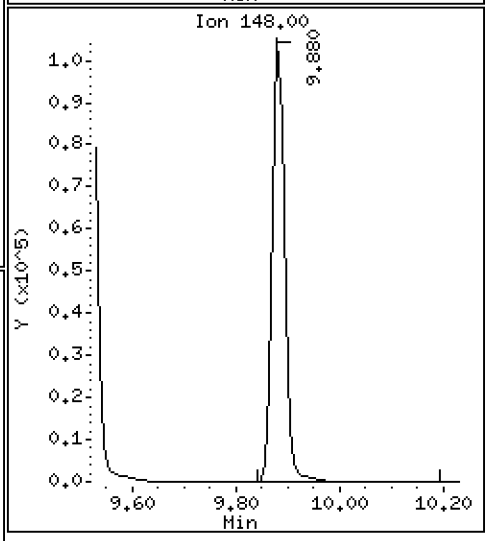
12 1,2-Dichlorobenzene

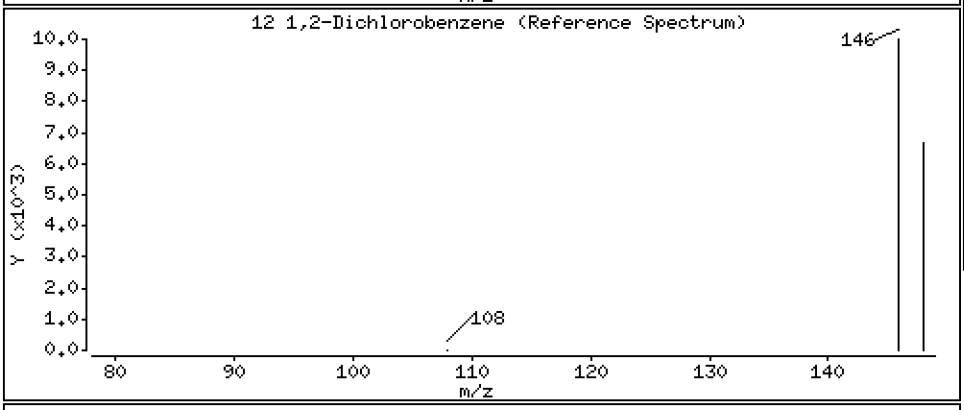
Concentration: 4.657 ug/L

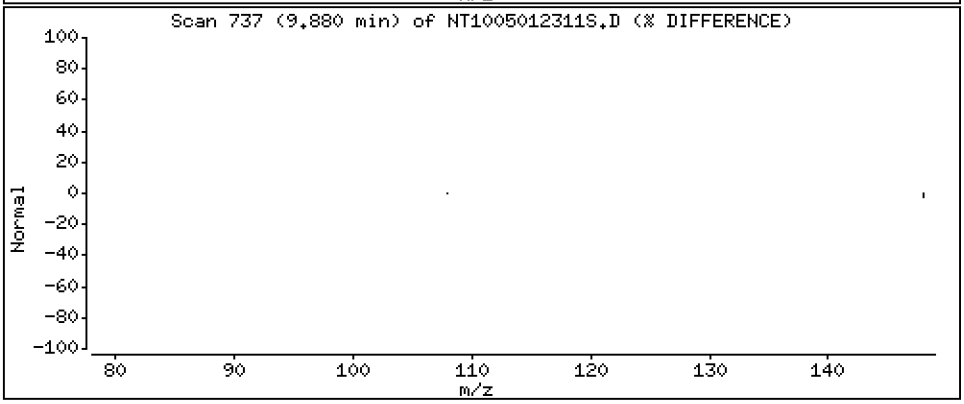












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

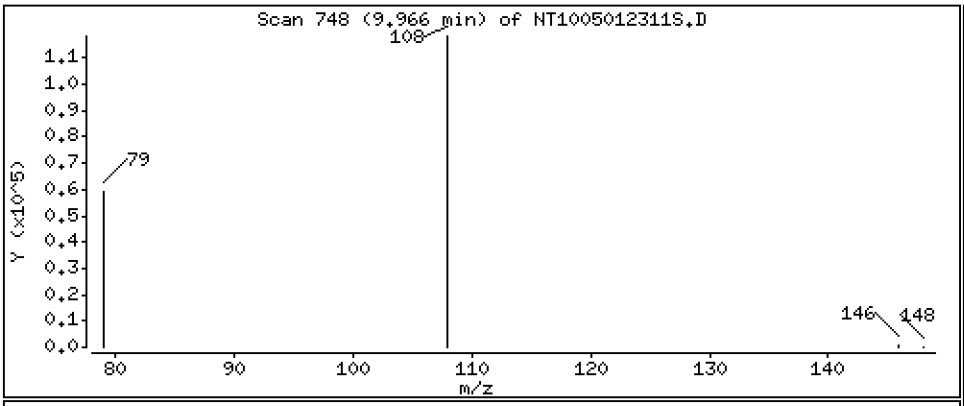
Operator: JGR

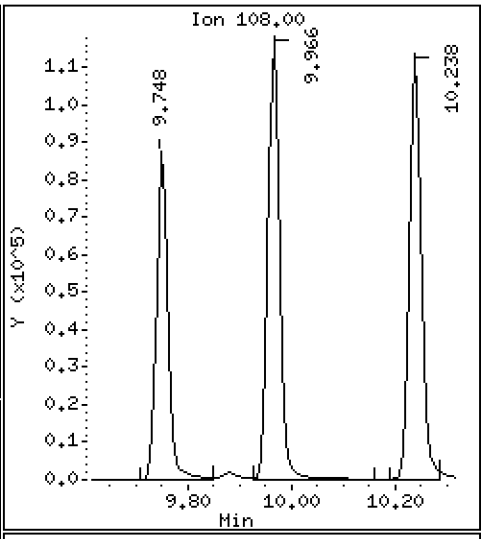
Column phase: ZB-5msi

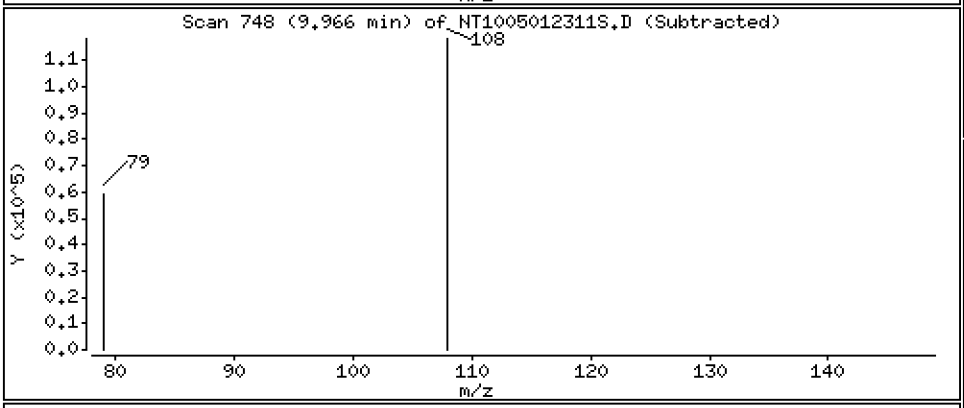
Column diameter: 0.25

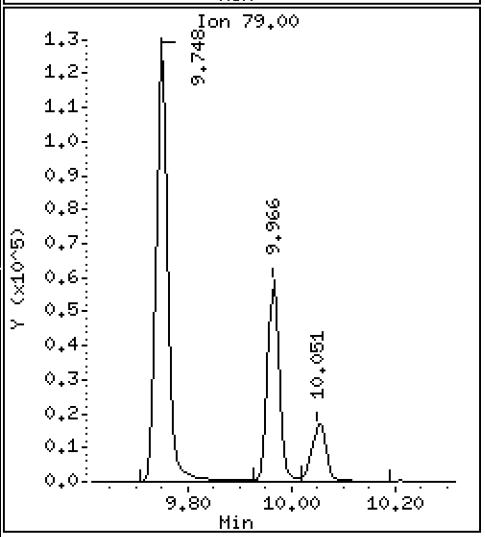
13 2-Methylphenol

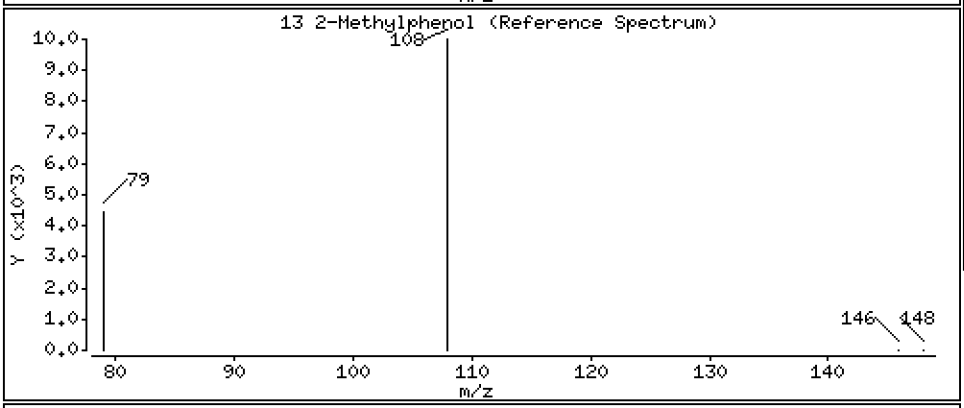
Concentration: 4.243 ug/L

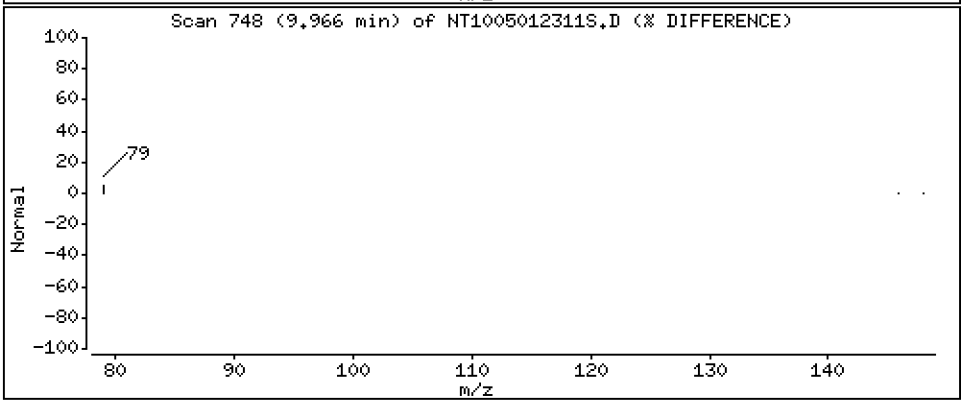












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

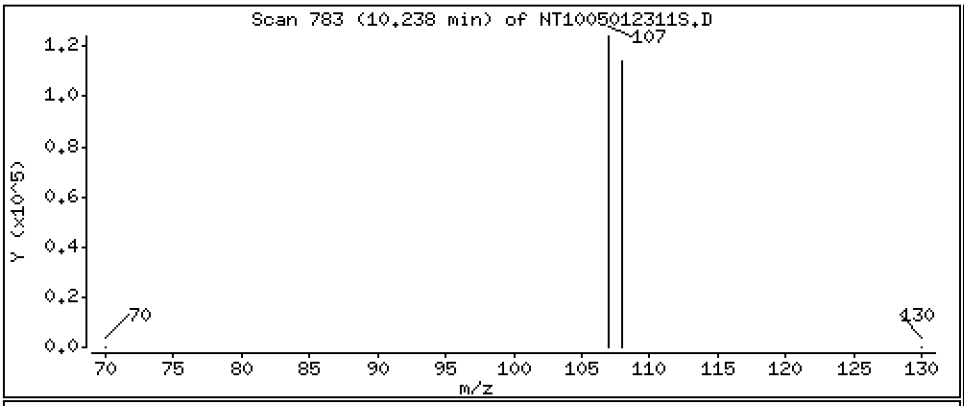
Operator: JGR

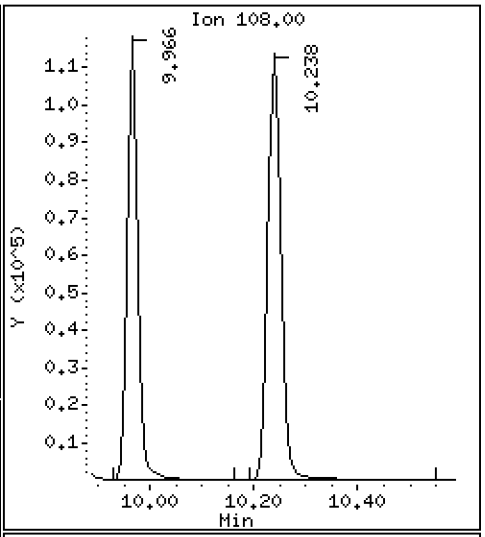
Column phase: ZB-5msi

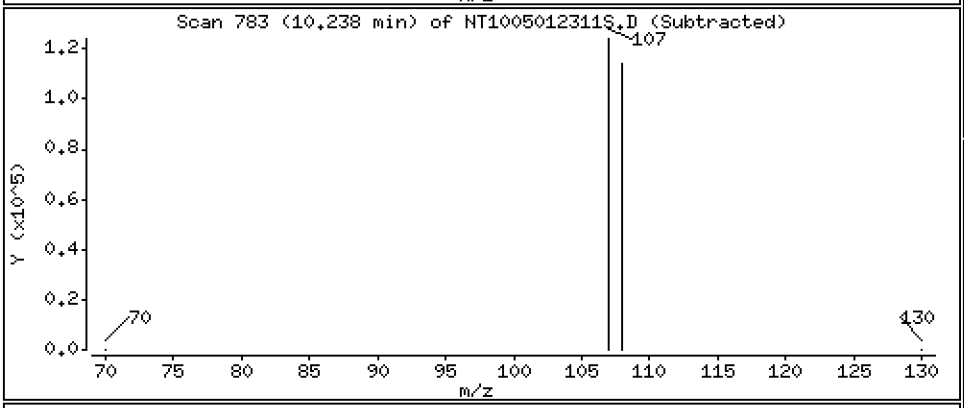
Column diameter: 0.25

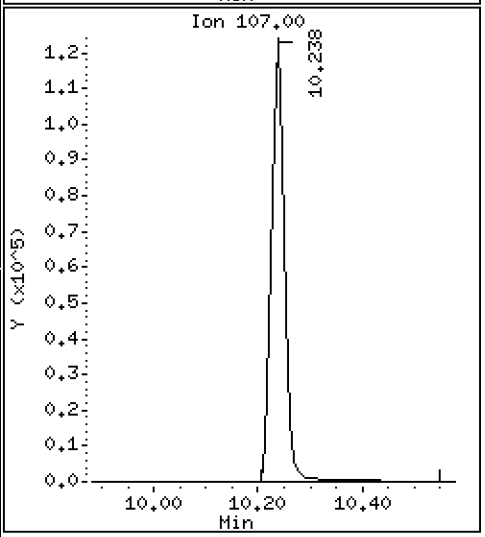
15 4-Methylphenol

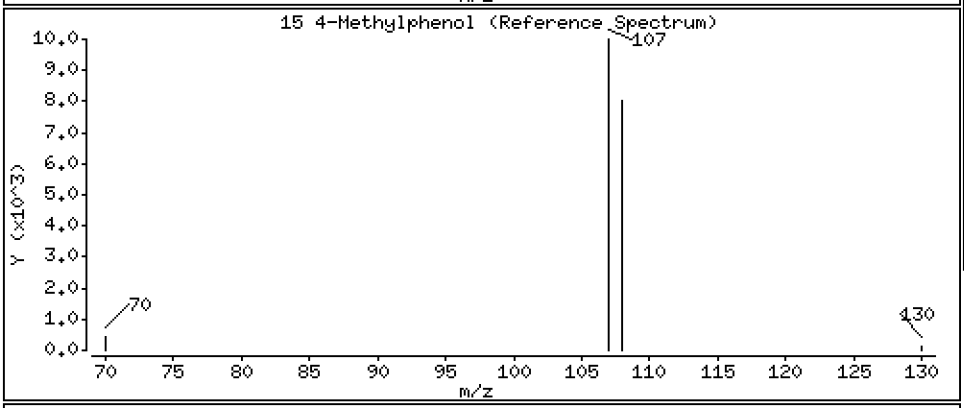
Concentration: 4.470 ug/L

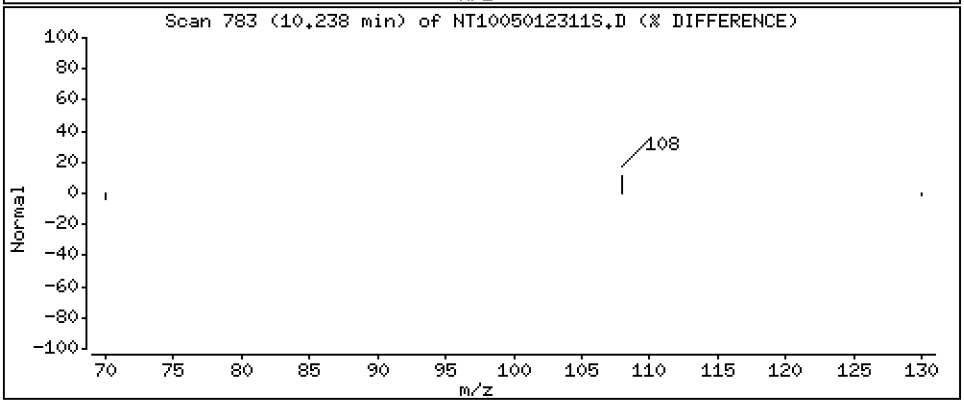












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

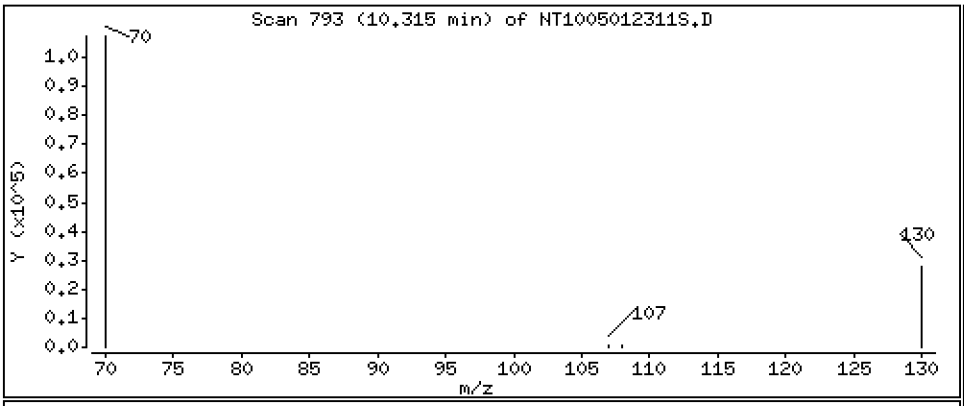
Operator: JGR

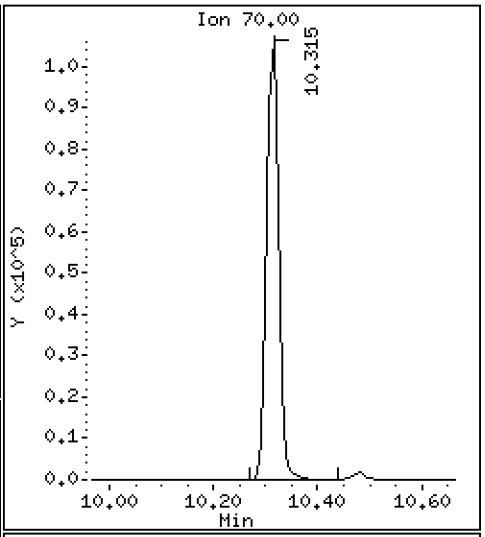
Column phase: ZB-5msi

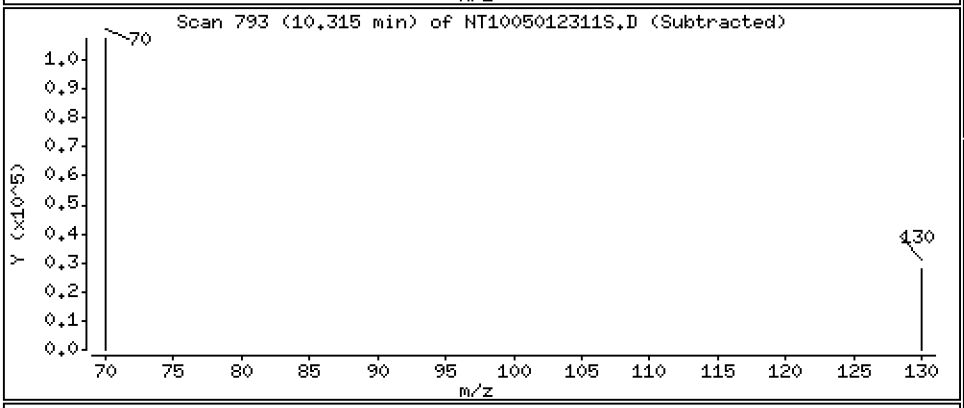
Column diameter: 0.25

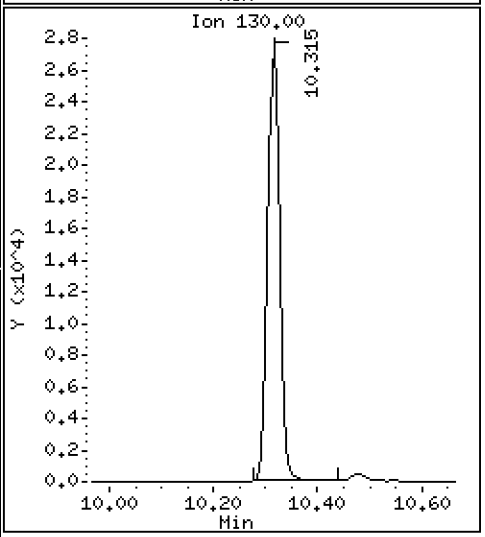
16 N-Nitroso-di-n-propylamine

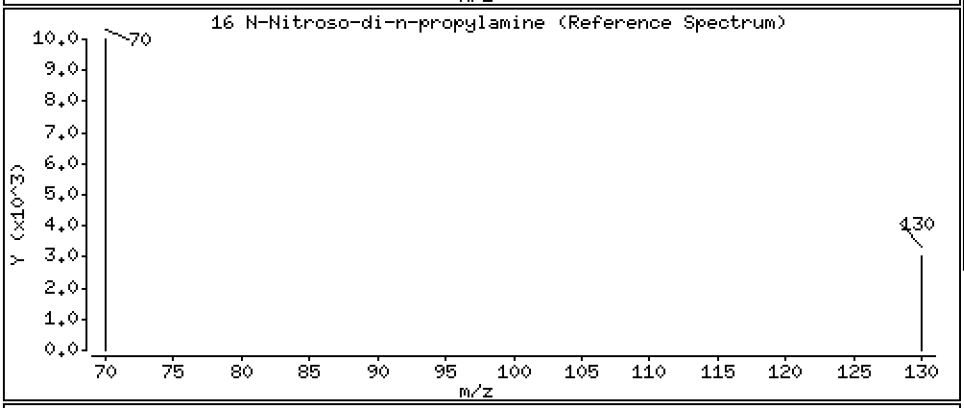
Concentration: 5.268 ug/L

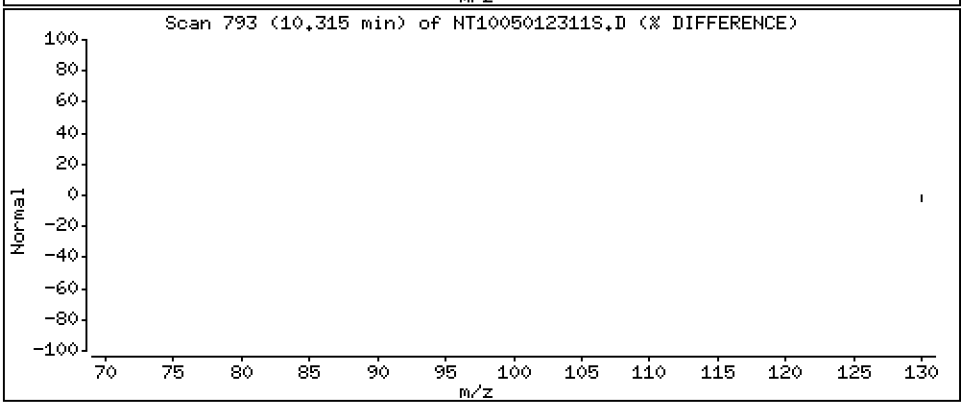












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

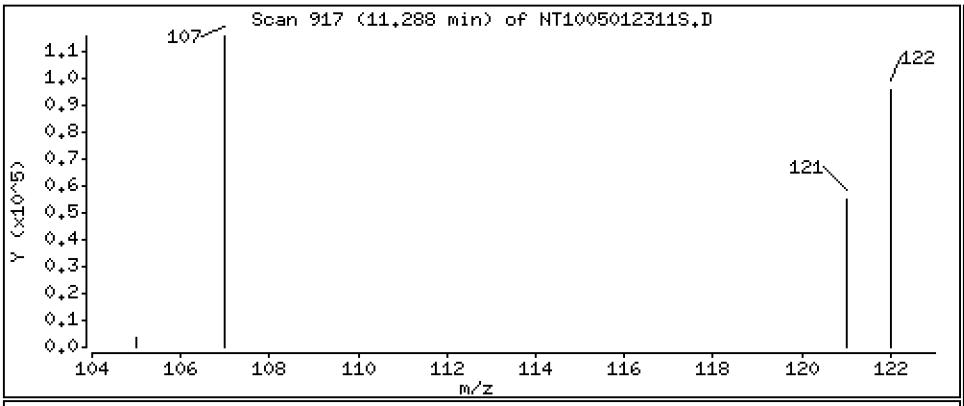
Operator: JGR

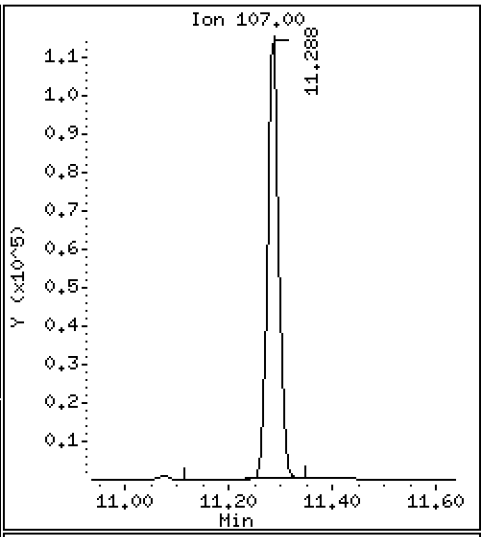
Column phase: ZB-5msi

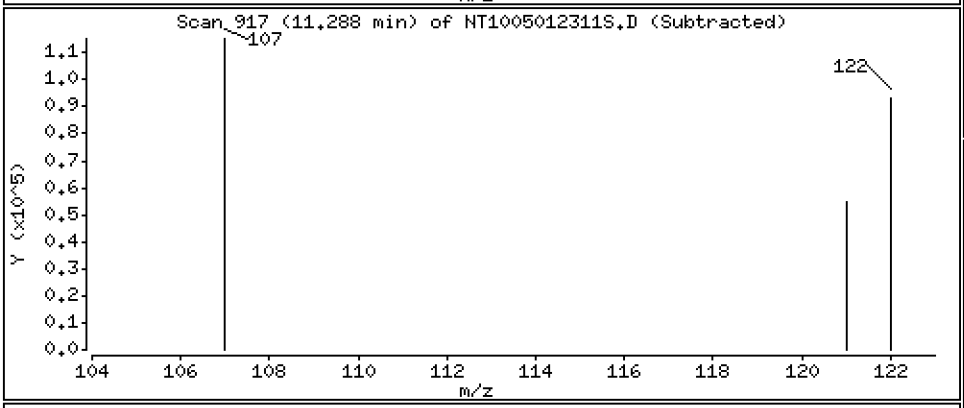
Column diameter: 0.25

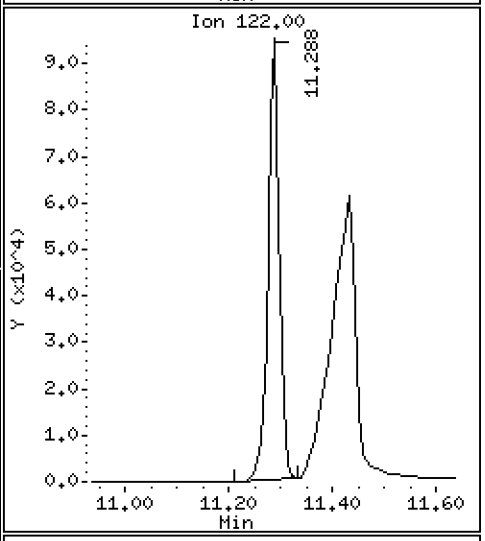
22 2,4-Dimethylphenol

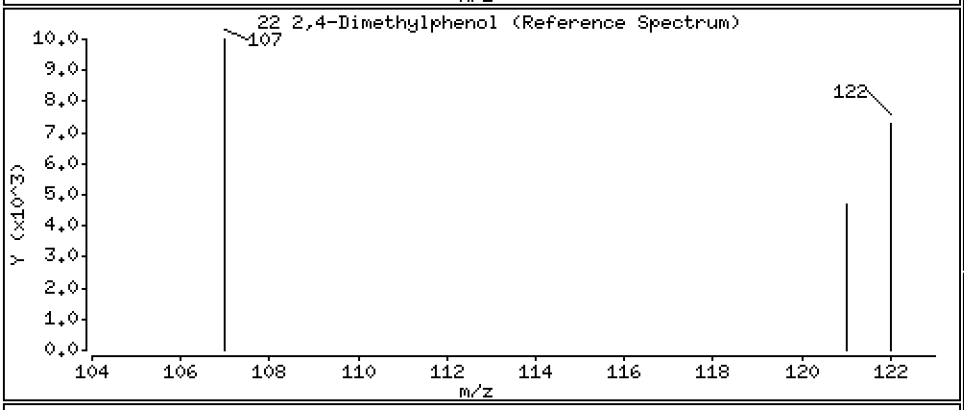
Concentration: 3.489 ug/L

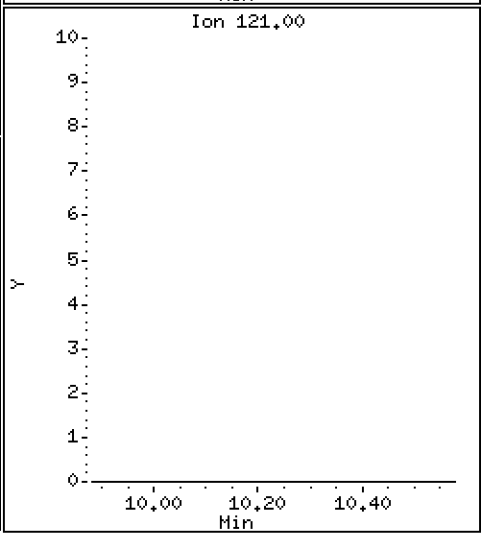


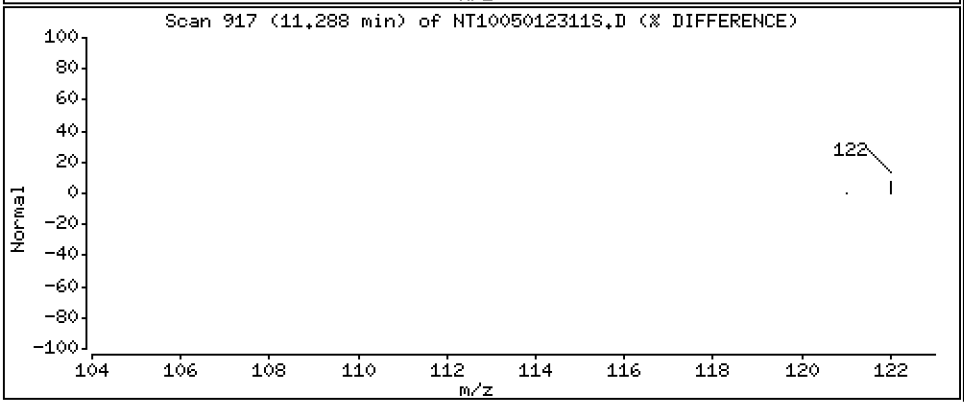












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

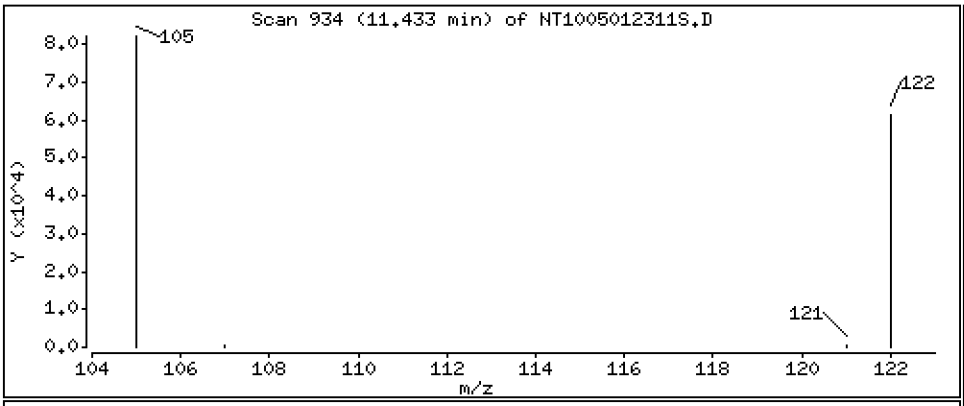
Operator: JGR

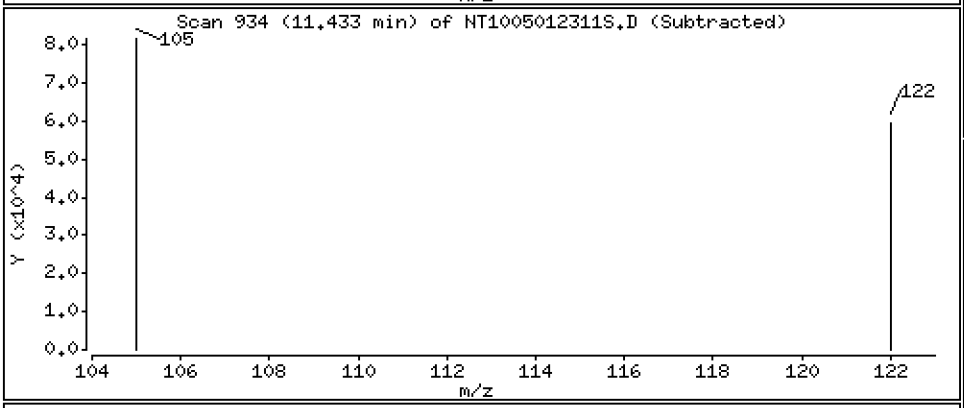
Column phase: ZB-5msi

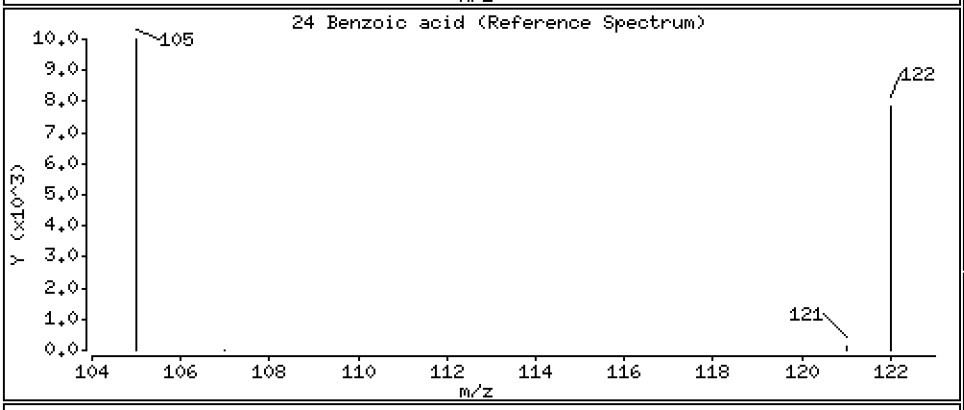
Column diameter: 0.25

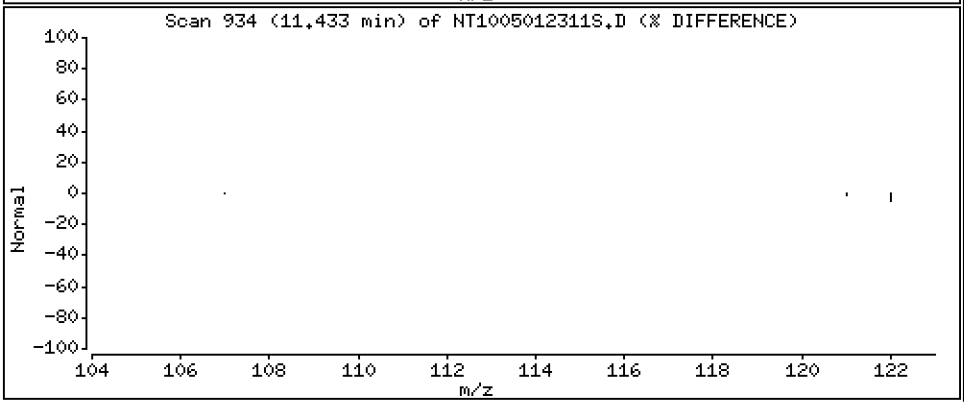
24 Benzoic acid

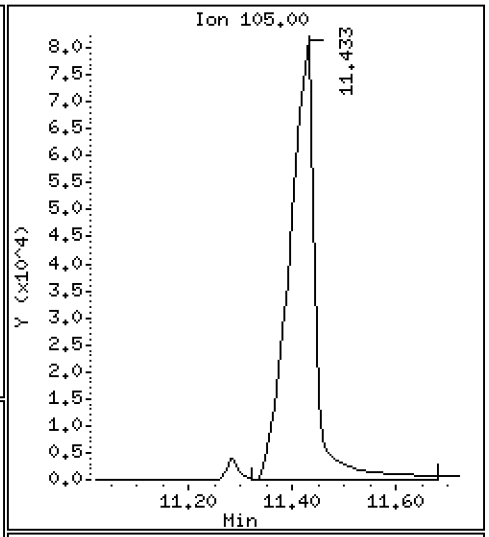
Concentration: 8.322 ug/L

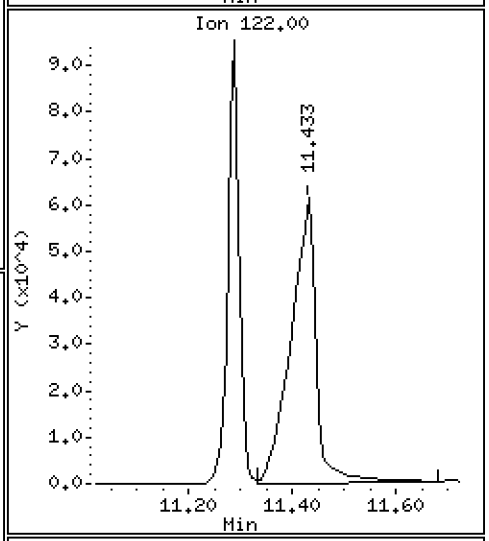


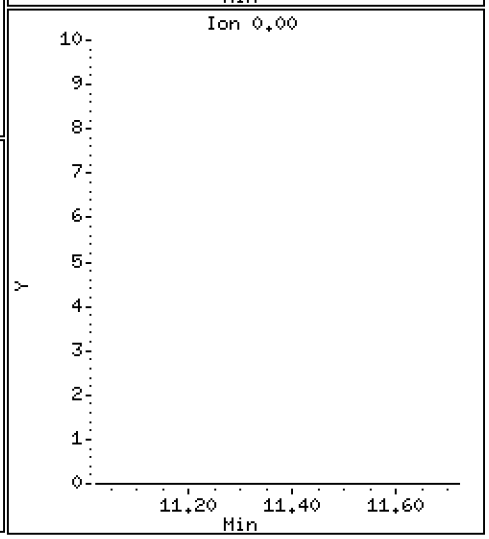












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

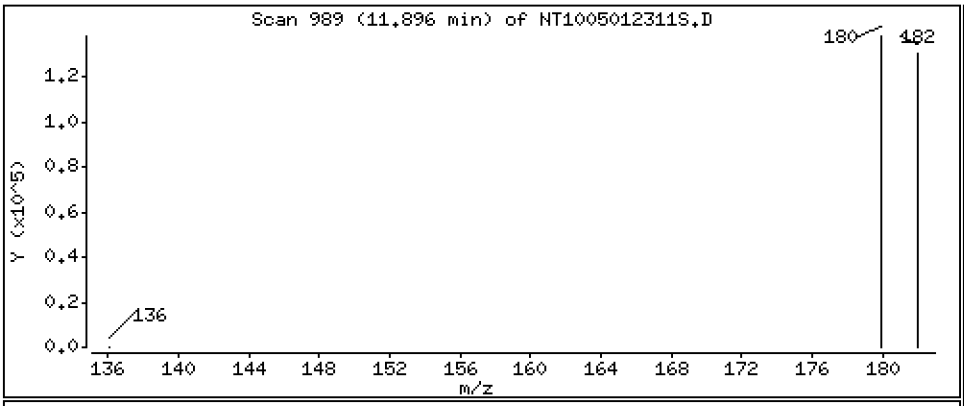
Operator: JGR

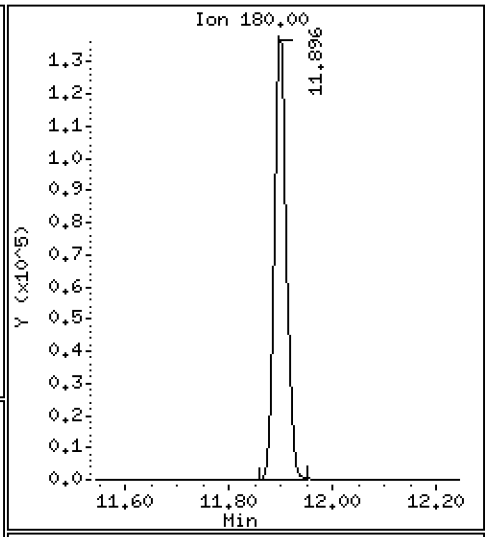
Column phase: ZB-5msi

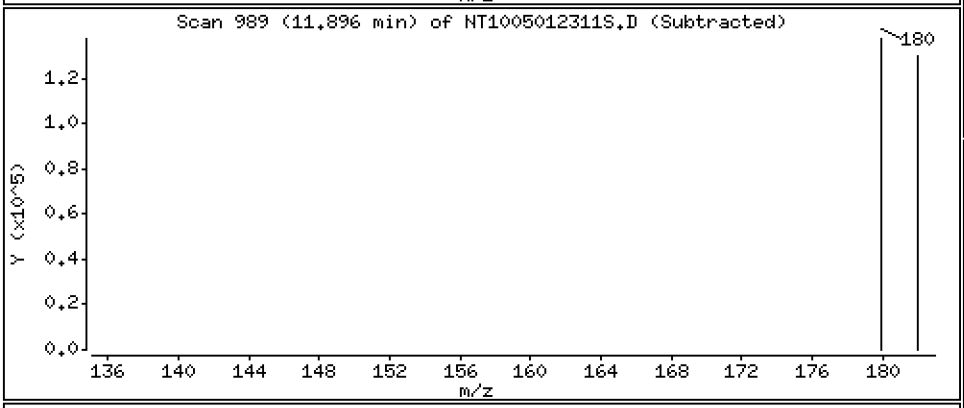
Column diameter: 0.25

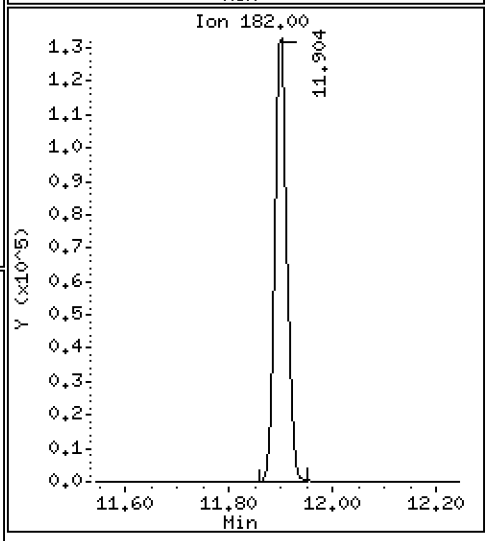
26 1,2,4-Trichlorobenzene

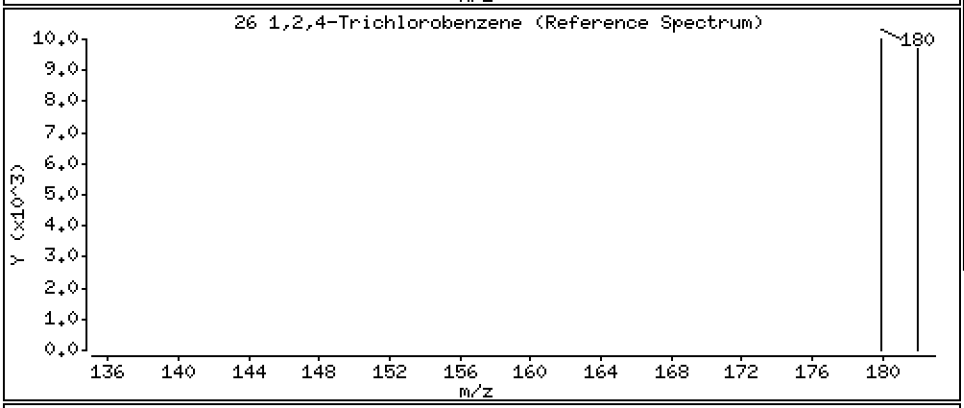
Concentration: 4.321 ug/L

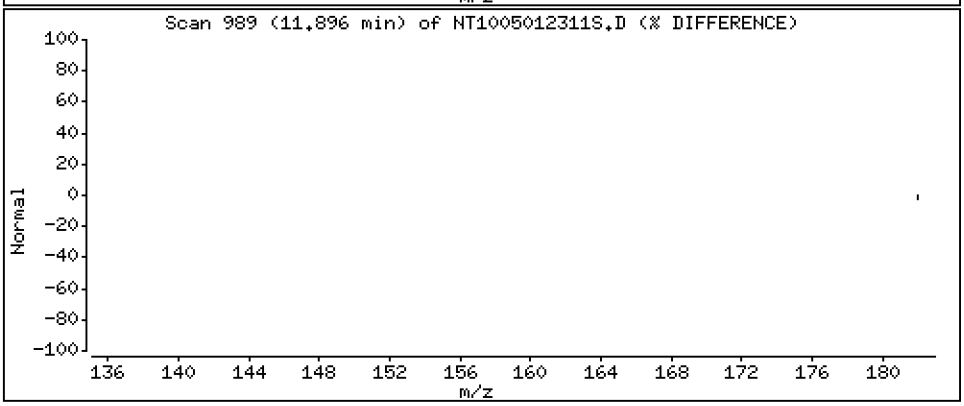












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

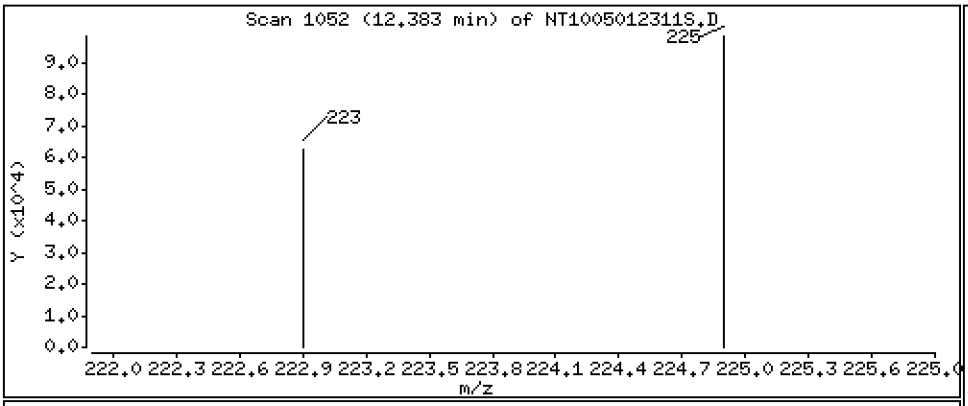
Operator: JGR

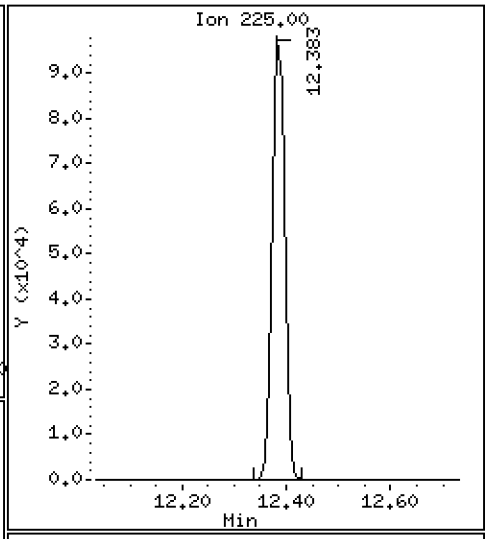
Column phase: ZB-5msi

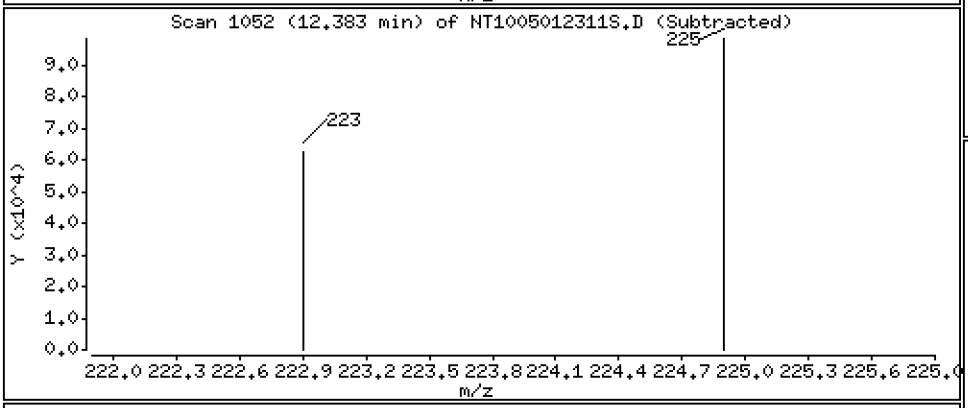
Column diameter: 0.25

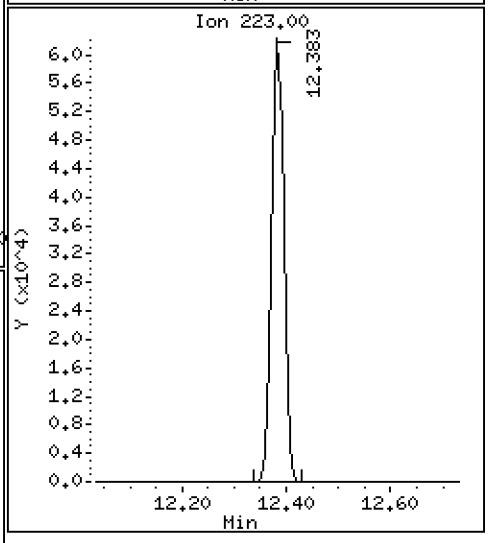
30 Hexachlorobutadiene

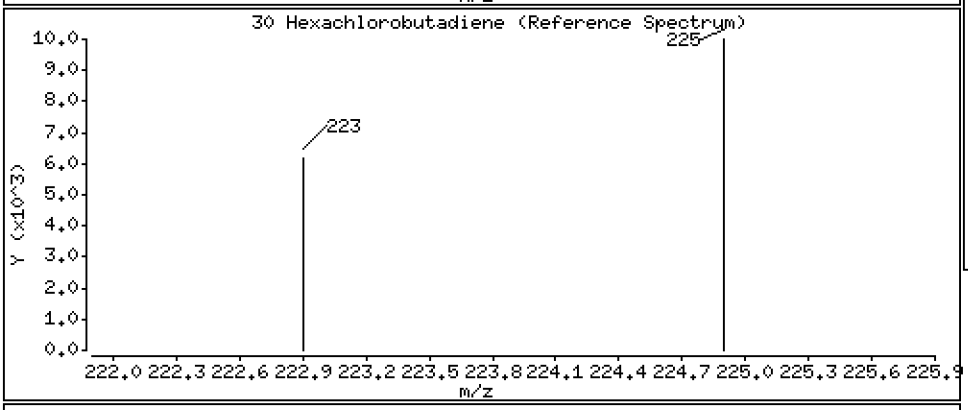
Concentration: 4.632 ug/L

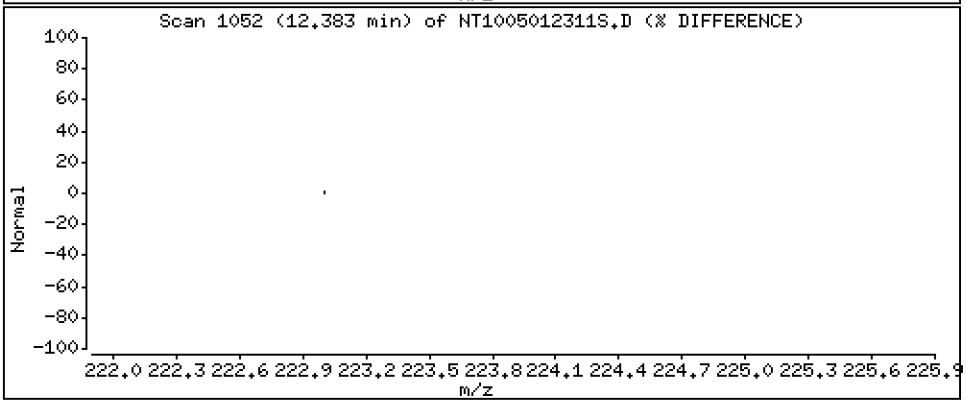












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

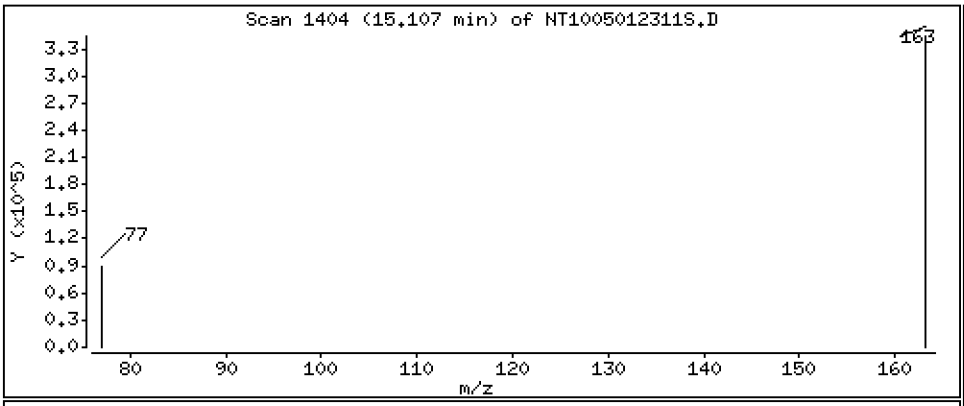
Operator: JGR

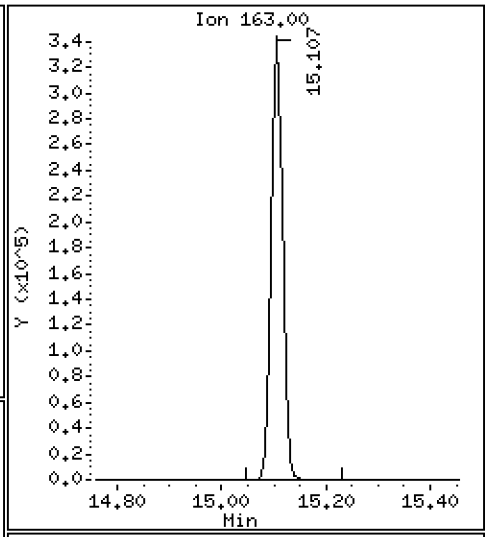
Column phase: ZB-5msi

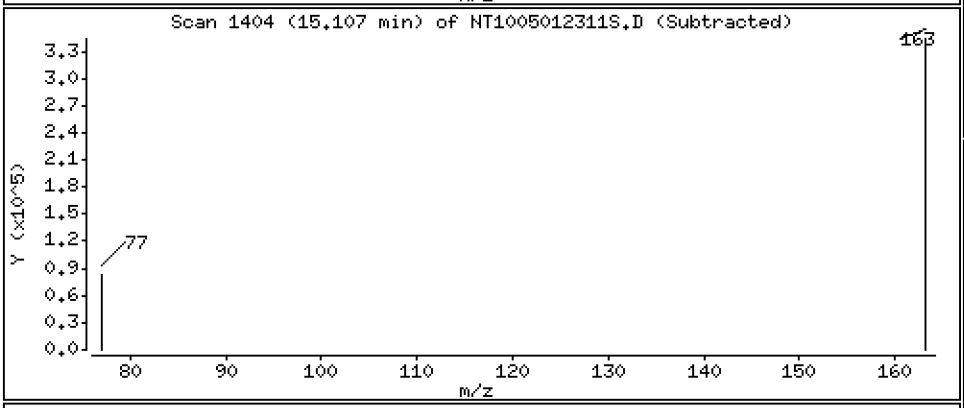
Column diameter: 0.25

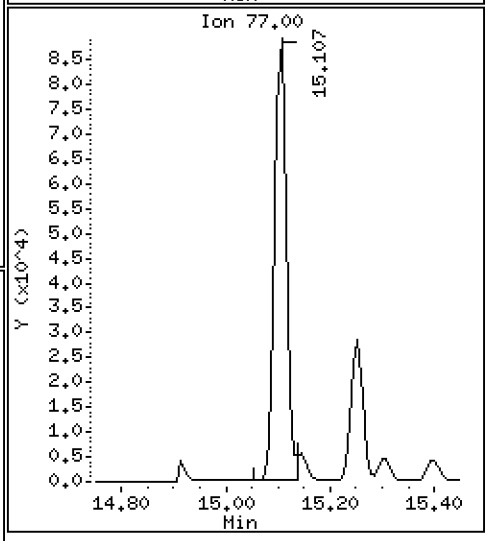
39 Dimethylphthalate

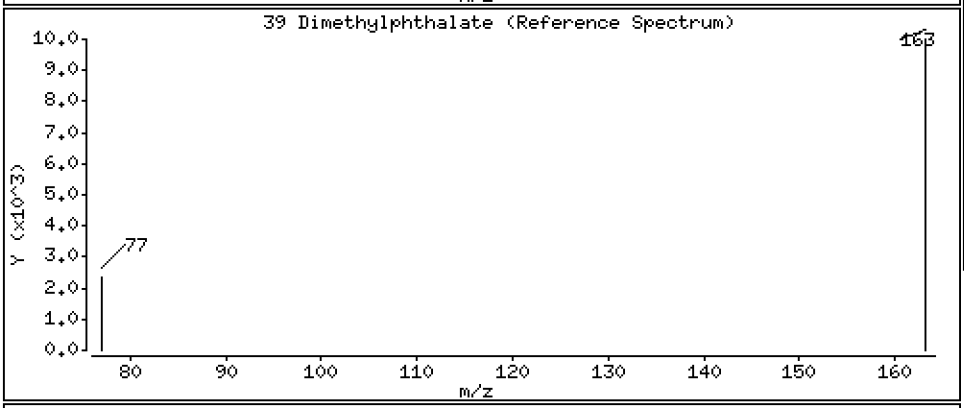
Concentration: 4.875 ug/L

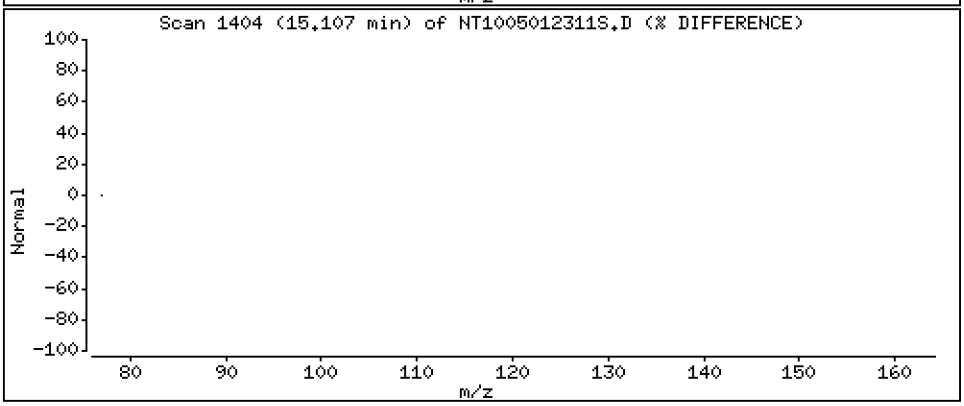












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

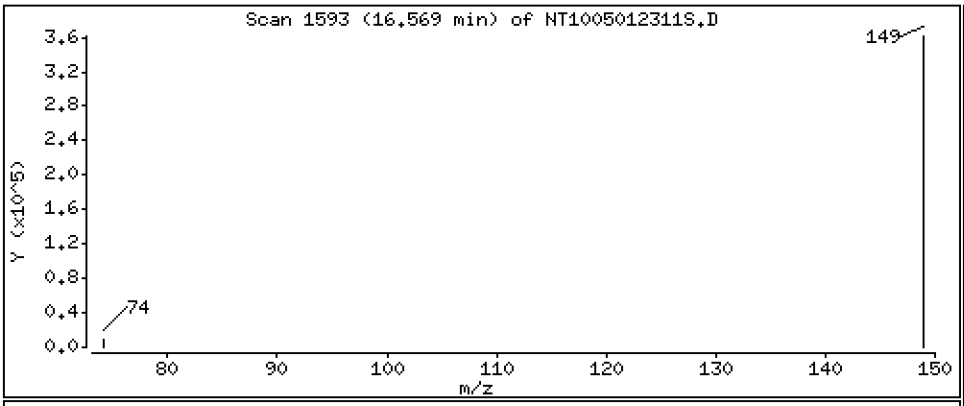
Operator: JGR

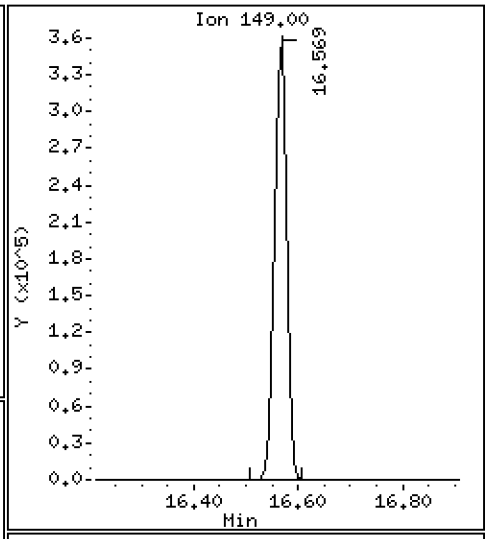
Column phase: ZB-5msi

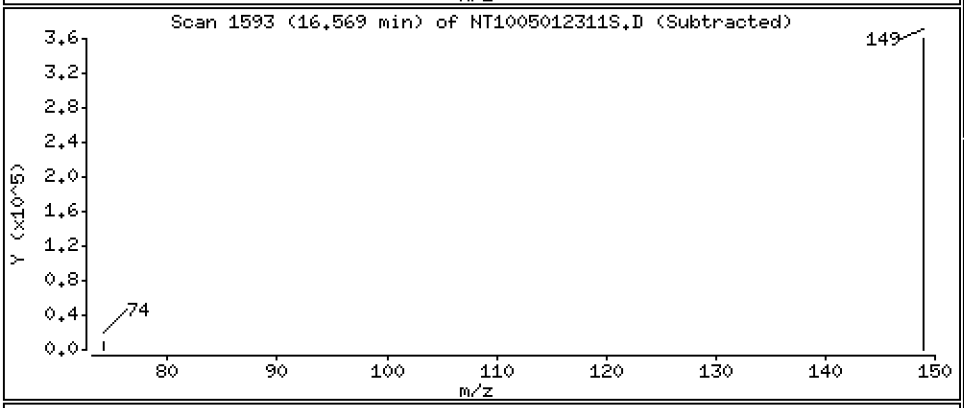
Column diameter: 0.25

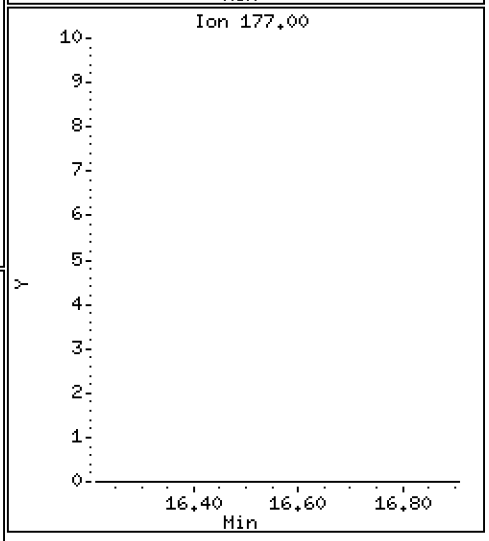
50 Diethylphthalate

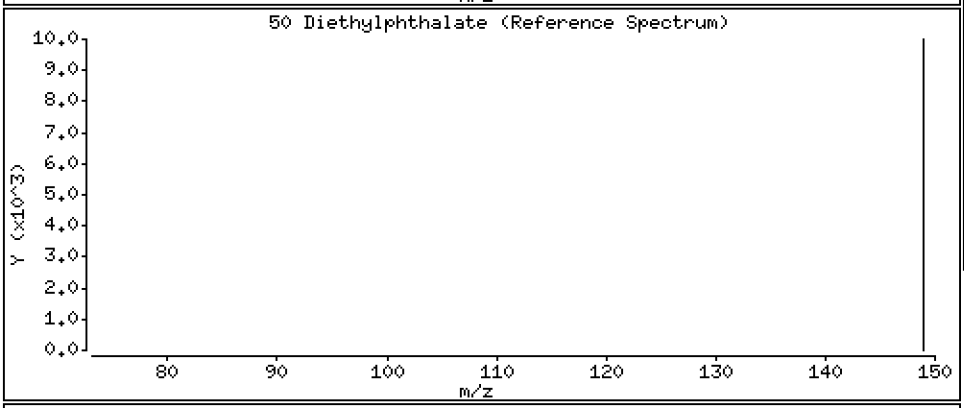
Concentration: 5.253 ug/L

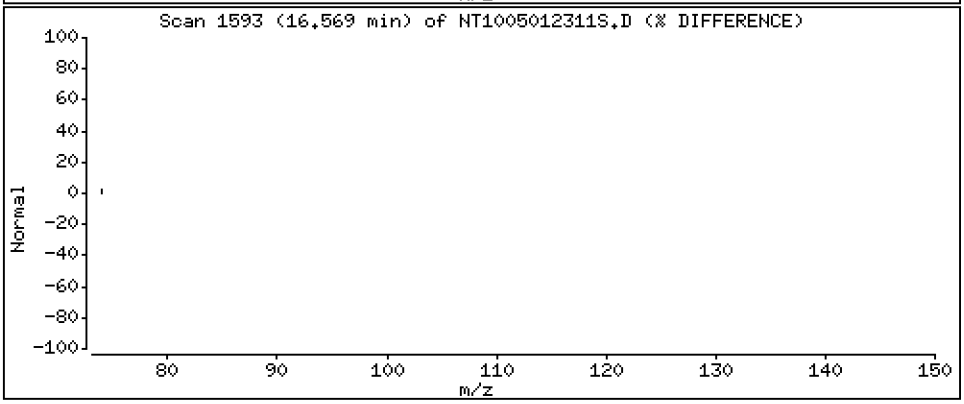












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

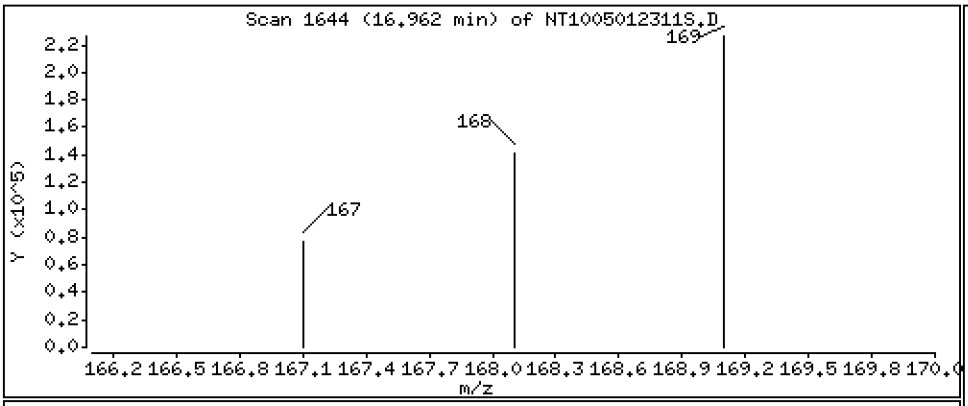
Operator: JGR

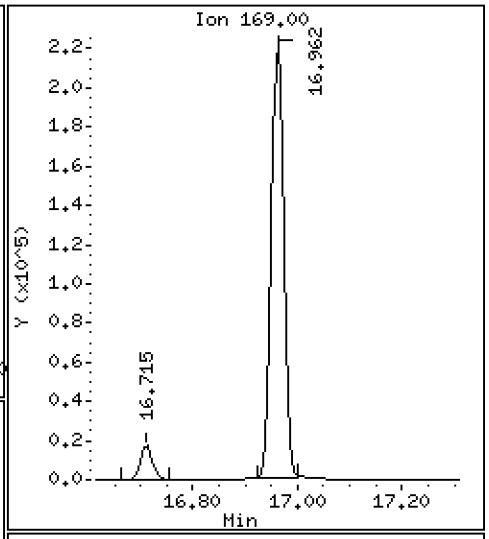
Column phase: ZB-5msi

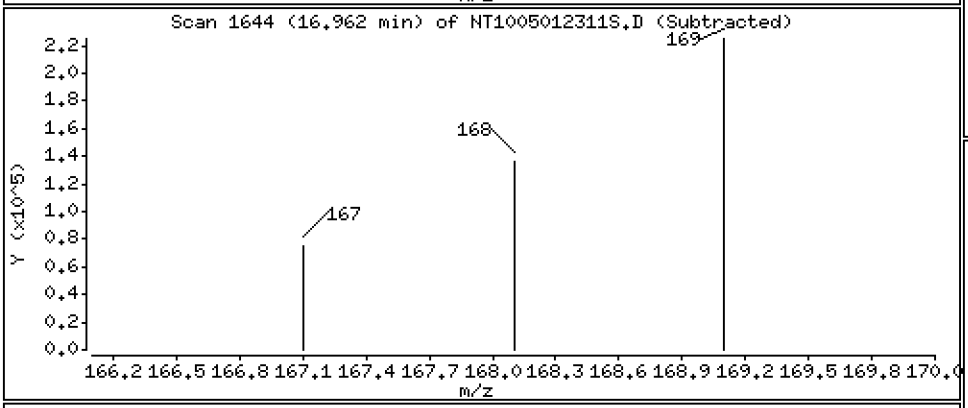
Column diameter: 0.25

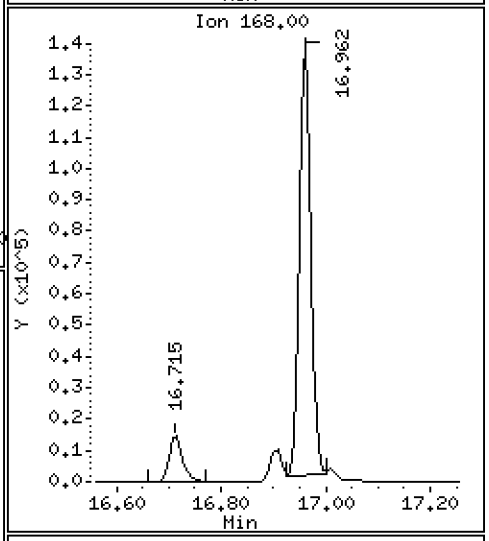
54 N-Nitrosodiphenylamine

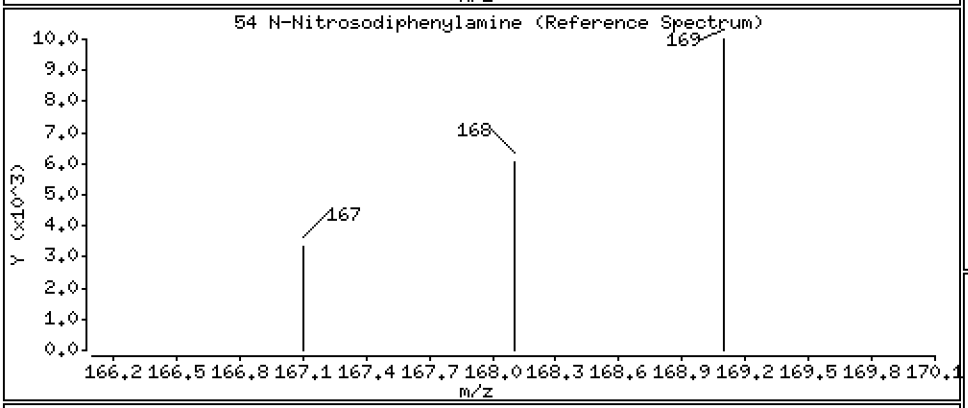
Concentration: 5.289 ug/L

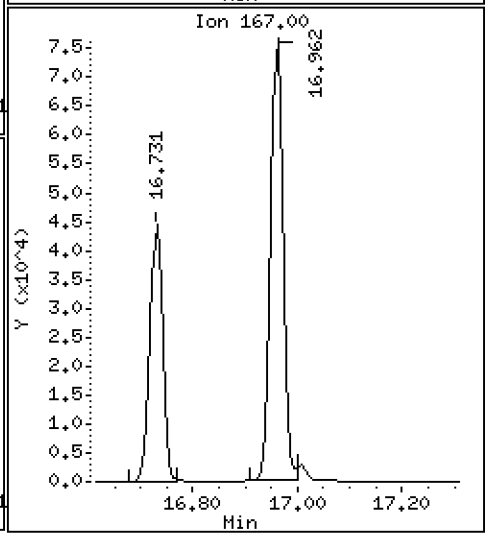


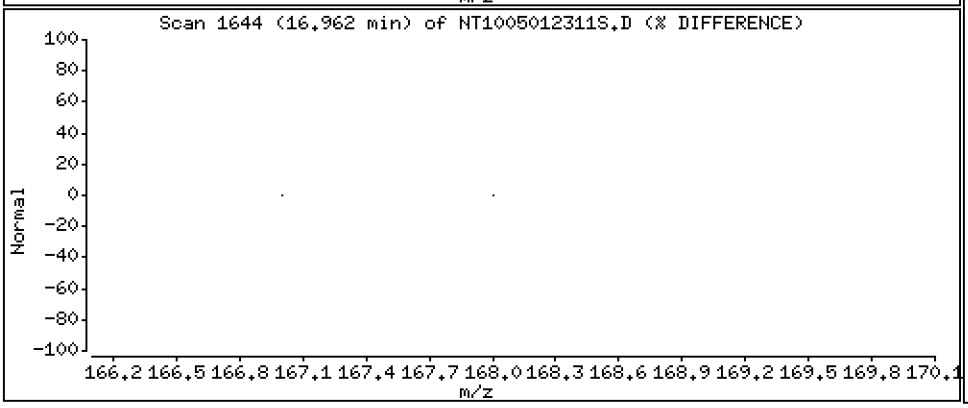












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

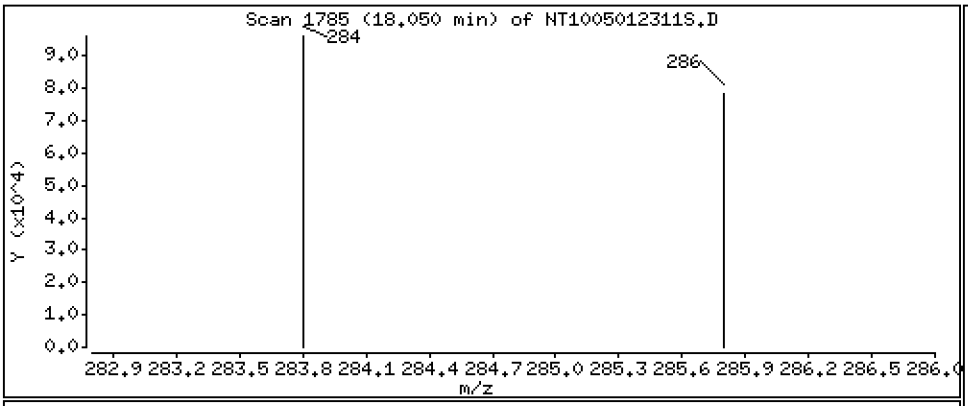
Operator: JGR

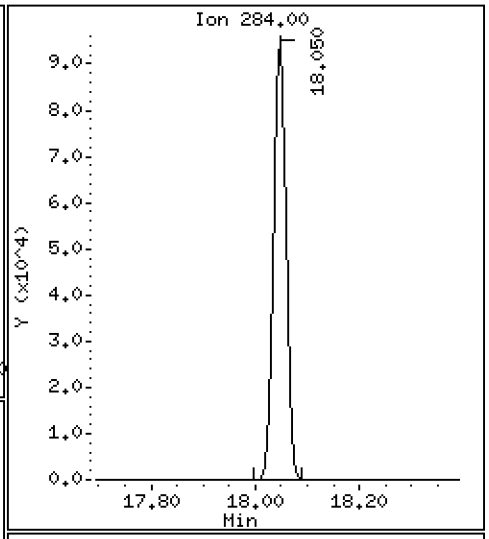
Column phase: ZB-5msi

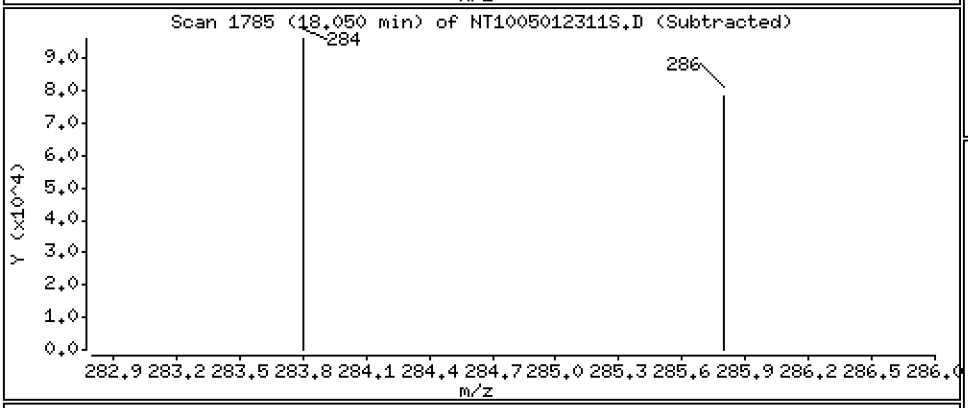
Column diameter: 0.25

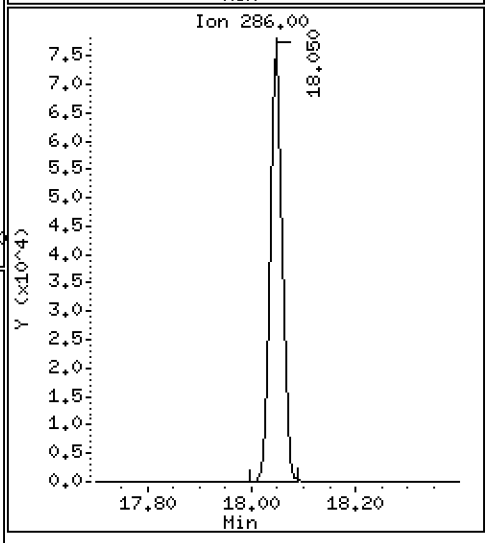
57 Hexachlorobenzene

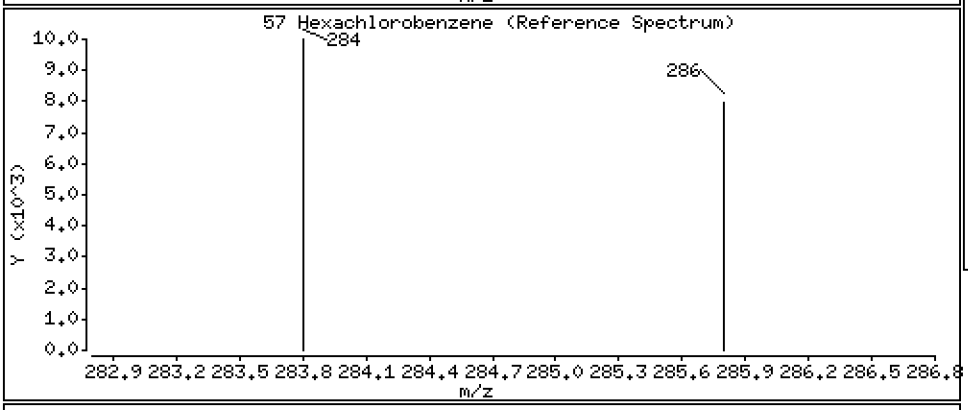
Concentration: 4.640 ug/L

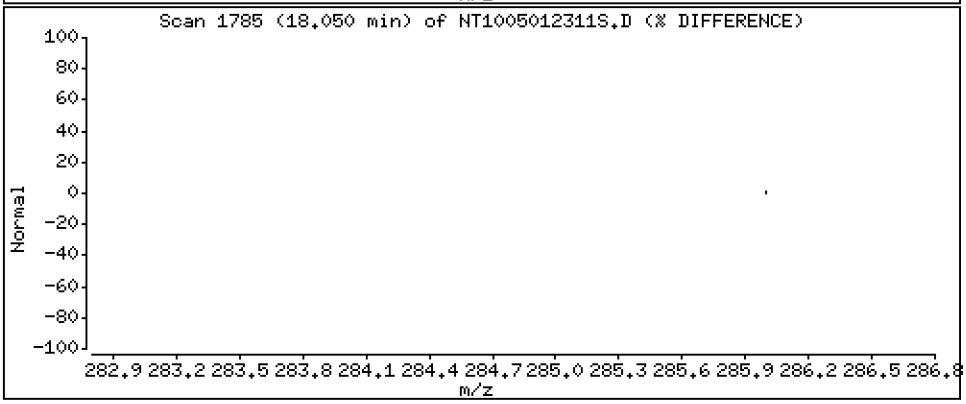












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

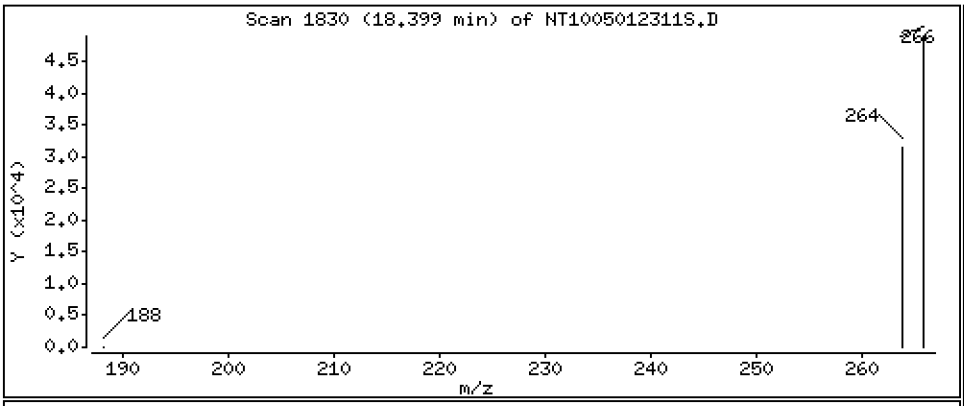
Operator: JGR

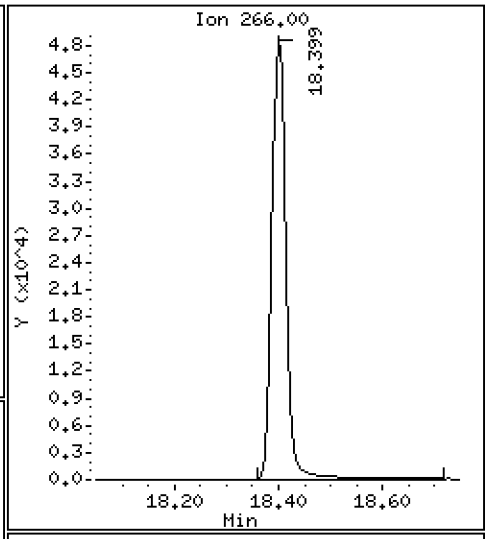
Column phase: ZB-5msi

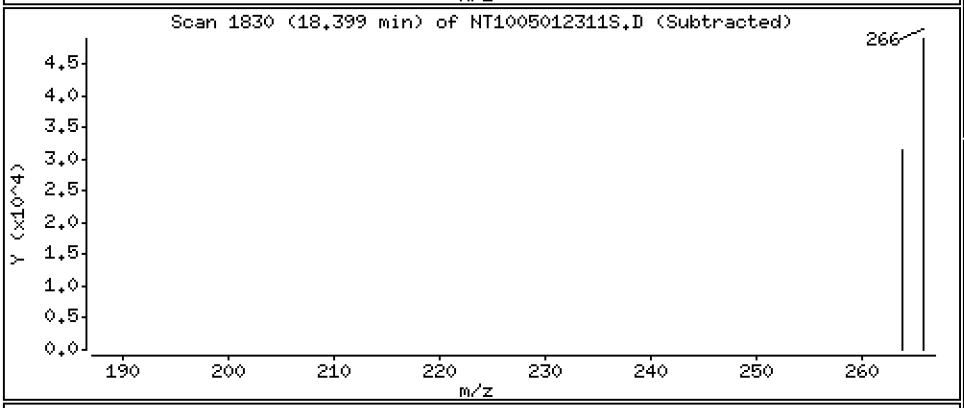
Column diameter: 0.25

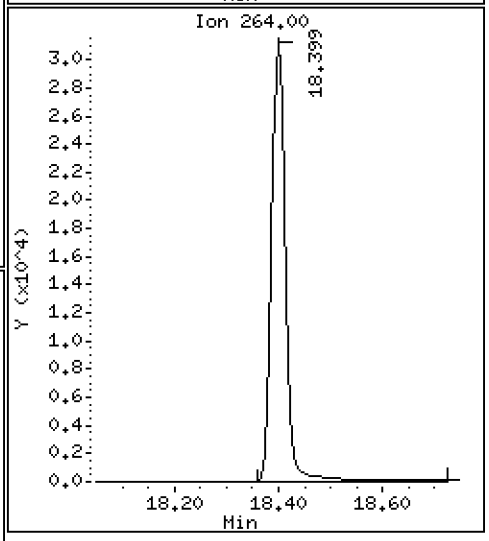
58 Pentachlorophenol

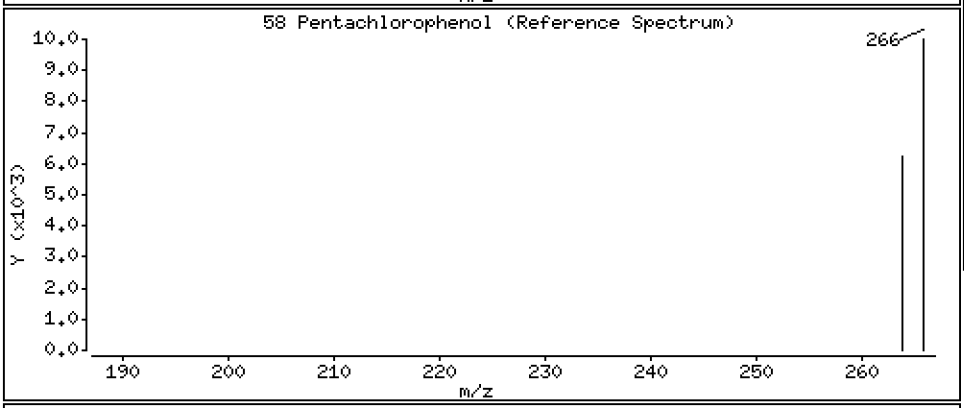
Concentration: 4.346 ug/L

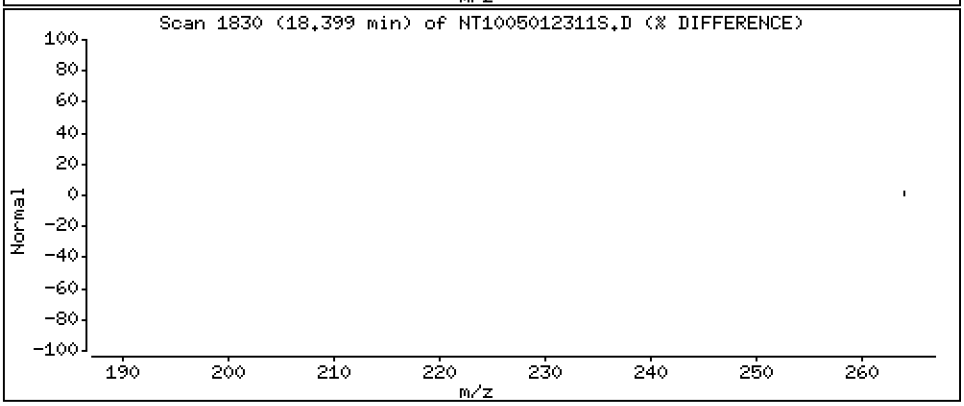












Date : 01-MAY-2023 20:43

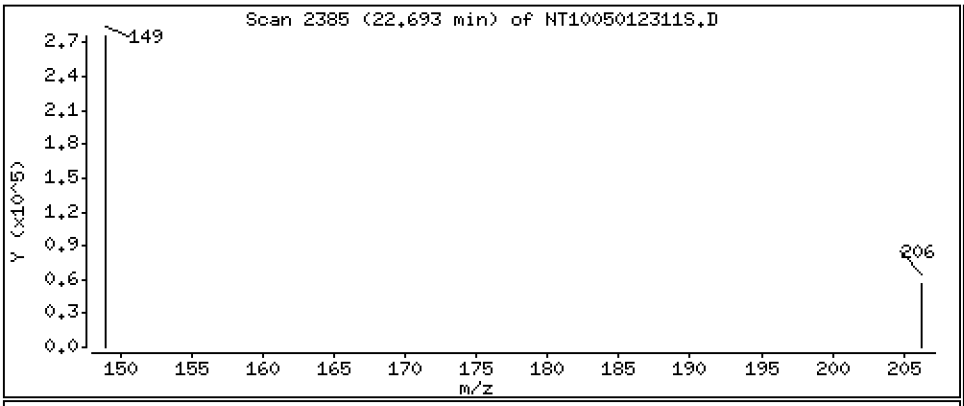
Client ID: Instrument: nt10.i

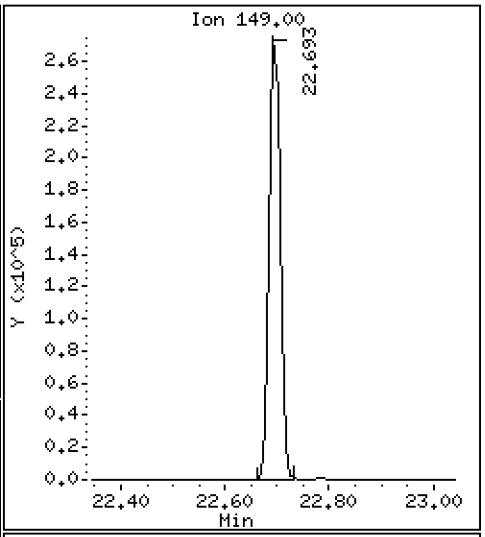
Sample Info: SLE0082-SCV1

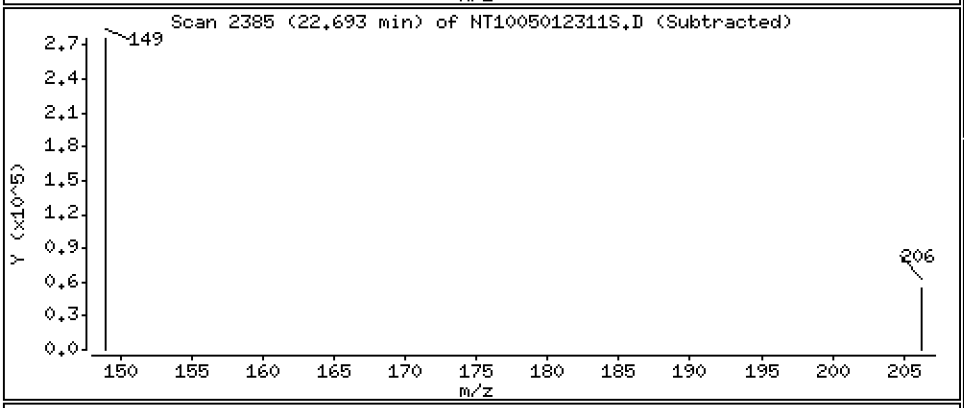
Volume Injected (uL): 1.0 Operator: JGR

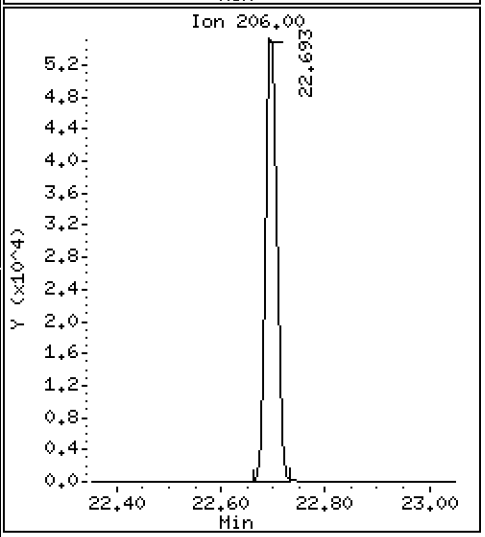
Column phase: ZB-5msi Column diameter: 0.25

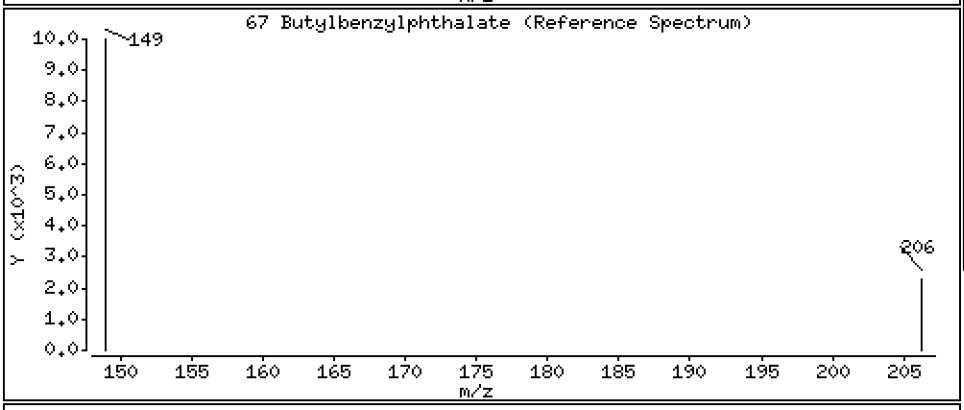
67 Butylbenzylphthalate Concentration: 5.065 ug/L

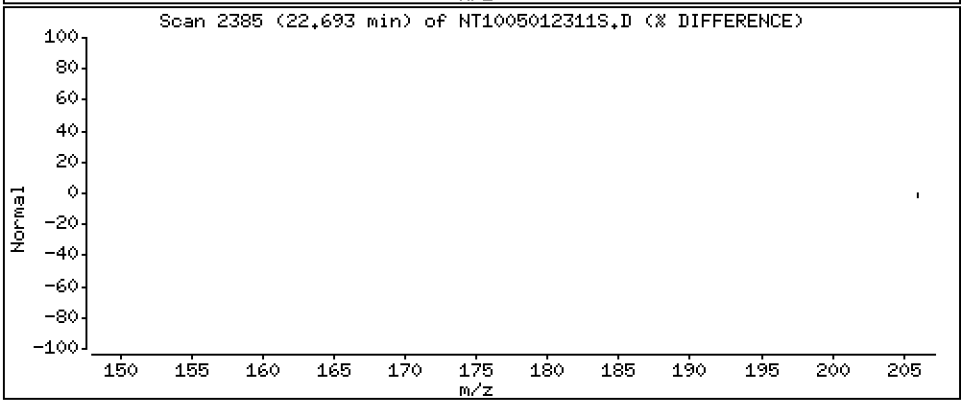












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

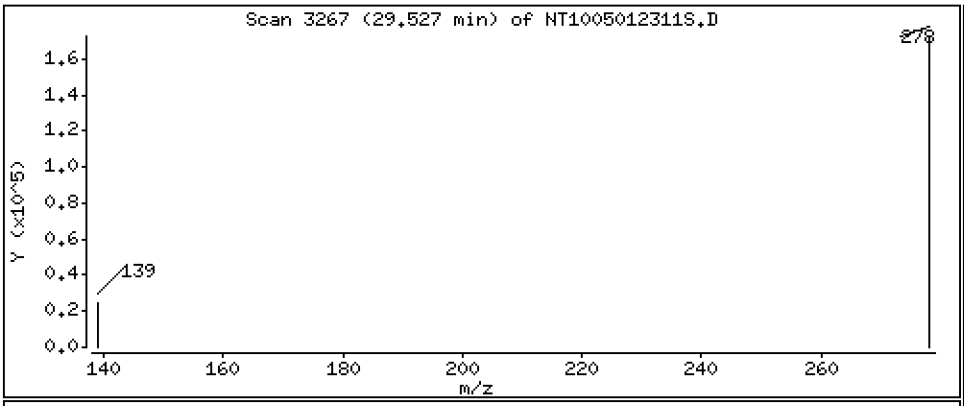
Operator: JGR

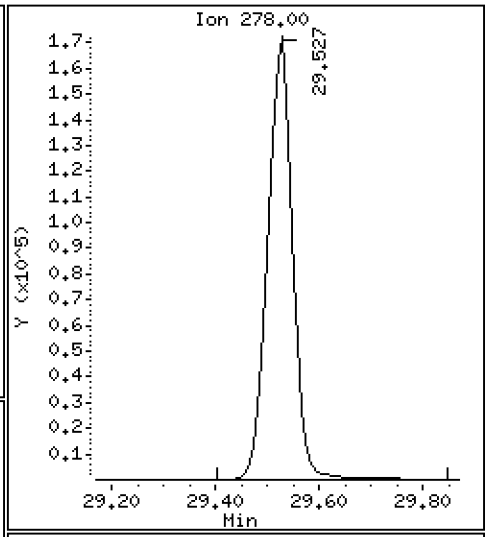
Column phase: ZB-5msi

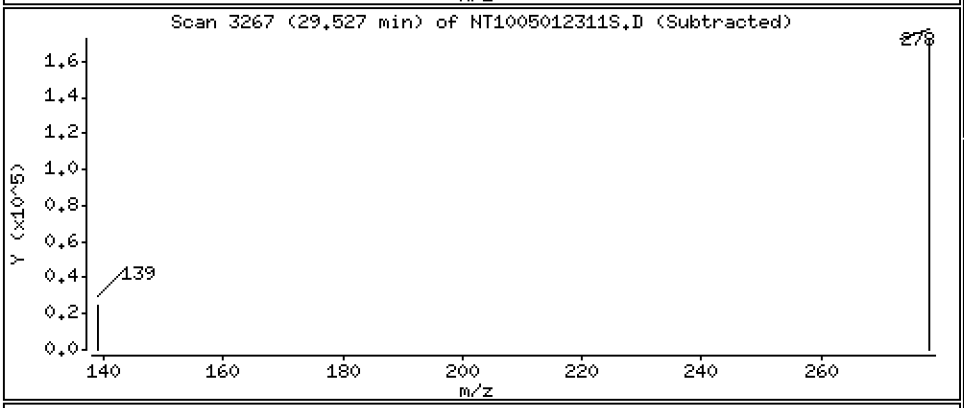
Column diameter: 0.25

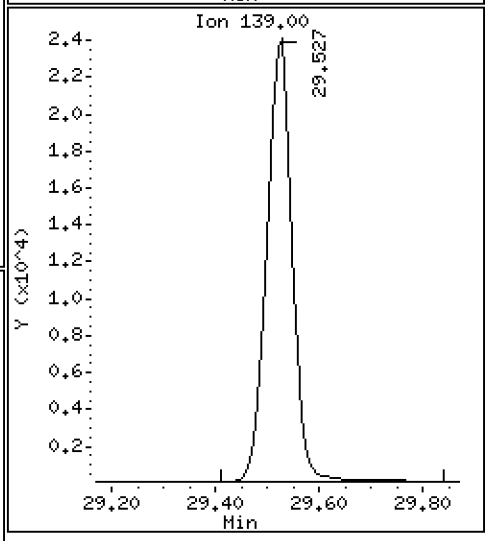
79 Dibenzo(a,h)anthracene

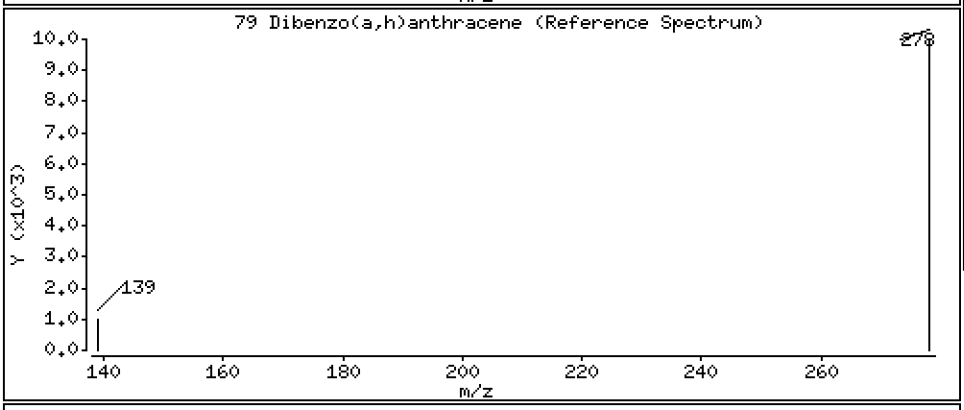
Concentration: 4.815 ug/L

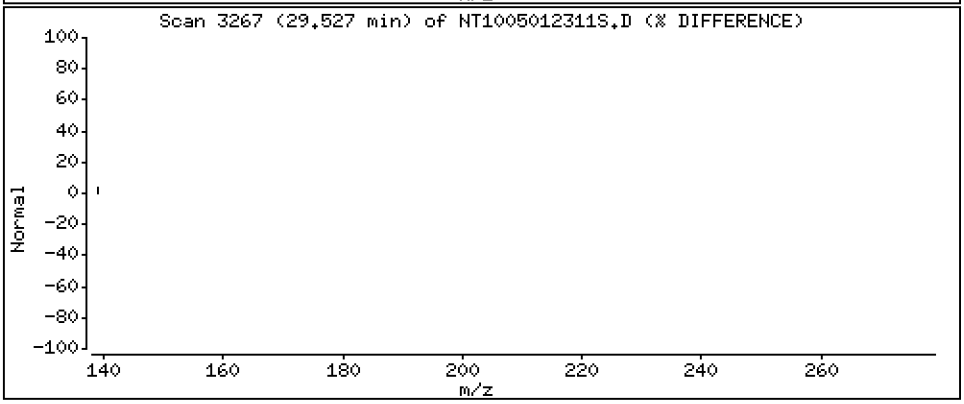












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

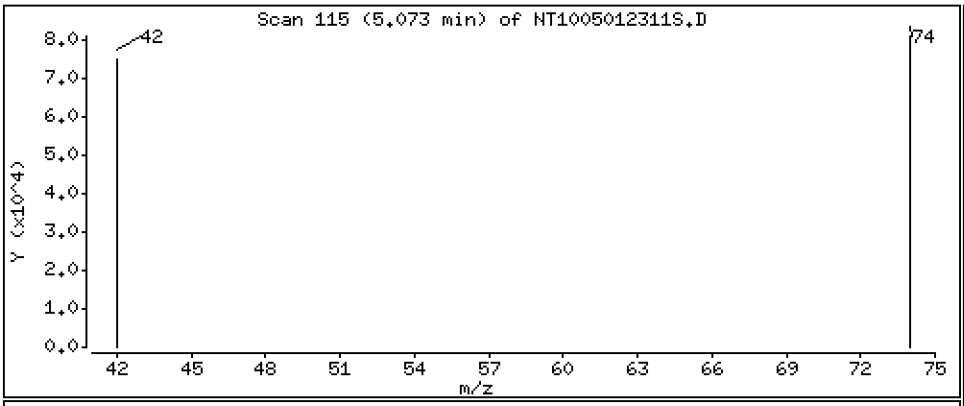
Operator: JGR

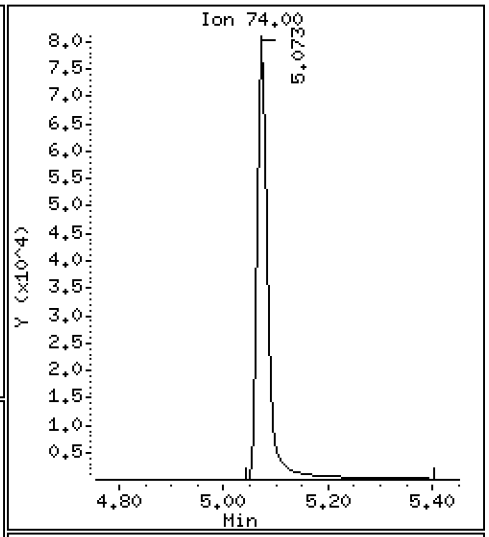
Column phase: ZB-5msi

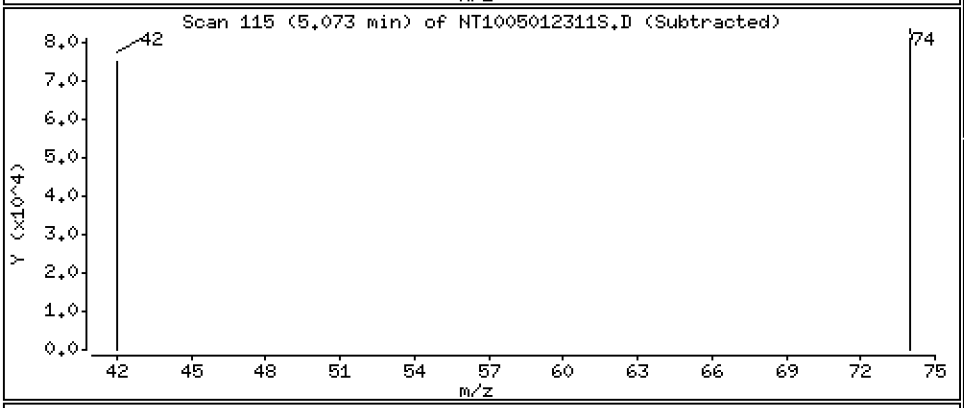
Column diameter: 0.25

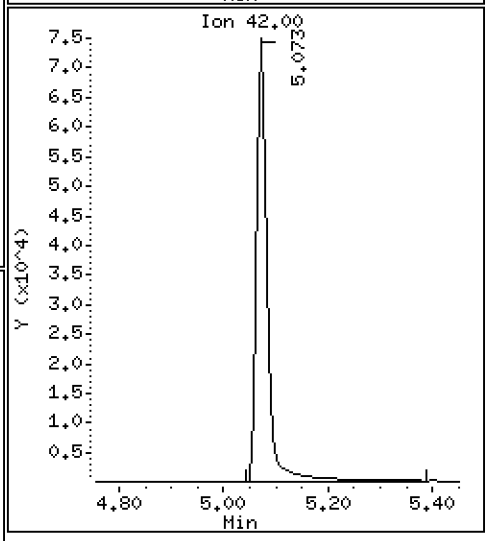
90 N-Nitrosodimethylamine

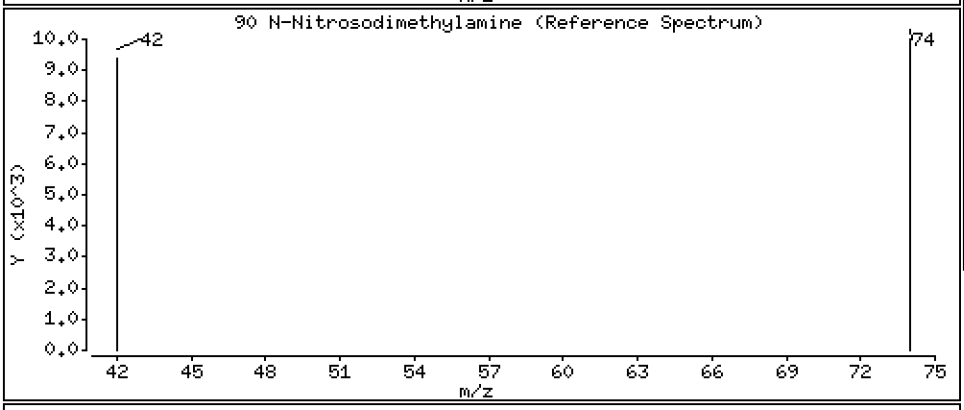
Concentration: 5.213 ug/L

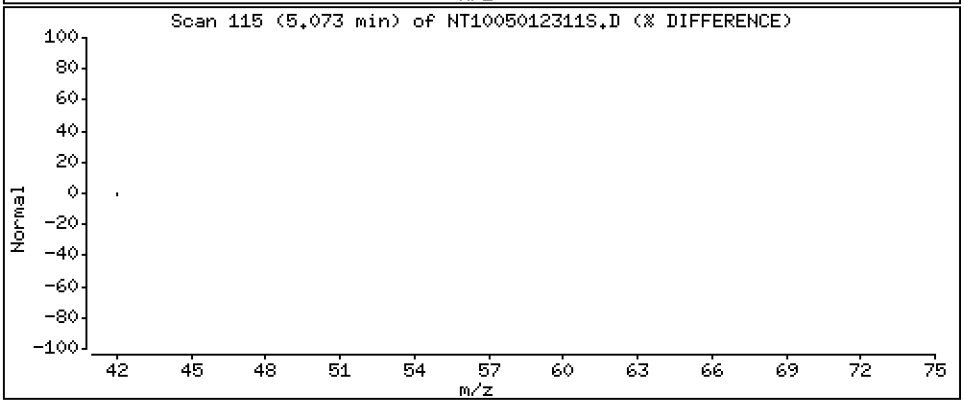












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Inj Date : 01-MAY-2023 20:43 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	1569	0.03614	0.03614(R)
3	Phenol	94	8.842	8.842	(0.932)	241257	4.43593	4.436
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	266593	4.66088	4.661
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	142531	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	271019	4.78410	4.784
11	Benzyl alcohol	79	9.748	9.756	(1.027)	198278	5.27178	5.272
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	253729	4.65664	4.657
13	2-Methylphenol	108	9.965	9.965	(1.050)	172706	4.24306	4.243
15	4-Methylphenol	108	10.237	10.237	(1.079)	191289	4.46966	4.470
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	162670	5.26784	5.268
22	2,4-Dimethylphenol	107	11.288	11.288	(0.942)	176836	3.48934	3.489(M)
24	Benzoic acid	105	11.432	11.373	(0.954)	283387	8.32169	8.322
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	224651	4.32072	4.321
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	510045	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	153764	4.63178	4.632
39	Dimethylphthalate	163	15.106	15.107	(0.967)	487893	4.87533	4.875
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	263993	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.061)	564424	5.25278	5.253
54	N-Nitrosodiphenylamine	169	16.962	16.962	(0.908)	349152	5.28852	5.289
57	Hexachlorobenzene	284	18.050	18.042	(0.966)	150021	4.64019	4.640

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.398	(0.985)	87352	4.34597	4.346
*	59 Phenanthrene-d10	188	18.677	18.677	(1.000)	506239	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	2121	0.02441	0.02441(R)
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	378823	5.06538	5.065
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	402889	4.00000	
*	77 Perylene-d12	264	26.533	26.533	(1.000)	365734	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.527	29.519	(1.113)	568400	4.81466	4.815
	90 N-Nitrosodimethylamine	74	5.072	5.103	(0.534)	123469	5.21274	5.213

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	142531	-15.75
27 Naphthalene-d8	594924	297462	1189848	510045	-14.27
42 Acenaphthene-d10	304980	152490	609960	263993	-13.44
59 Phenanthrene-d10	609190	304595	1218380	506239	-16.90
69 Chrysene-d12	479061	239531	958122	402889	-15.90
77 Perylene-d12	427162	213581	854324	365734	-14.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005012311S.D

Lab ID: SLE0082-SCV1
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

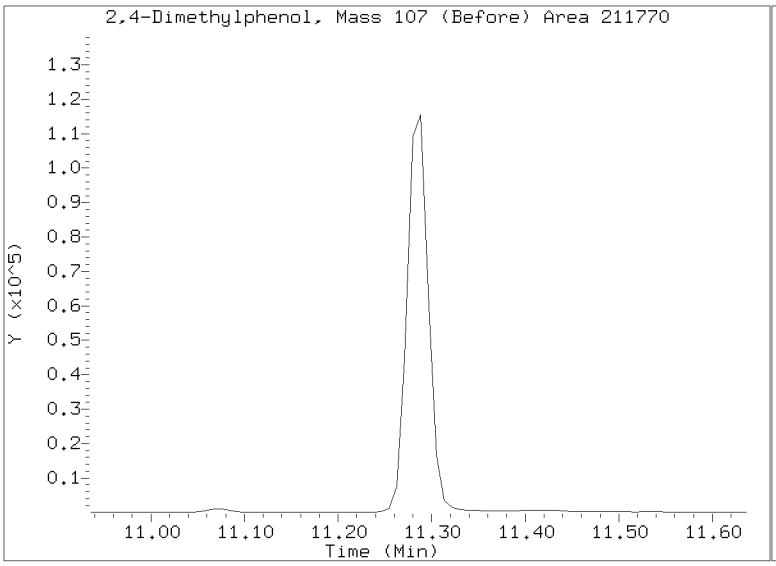
On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

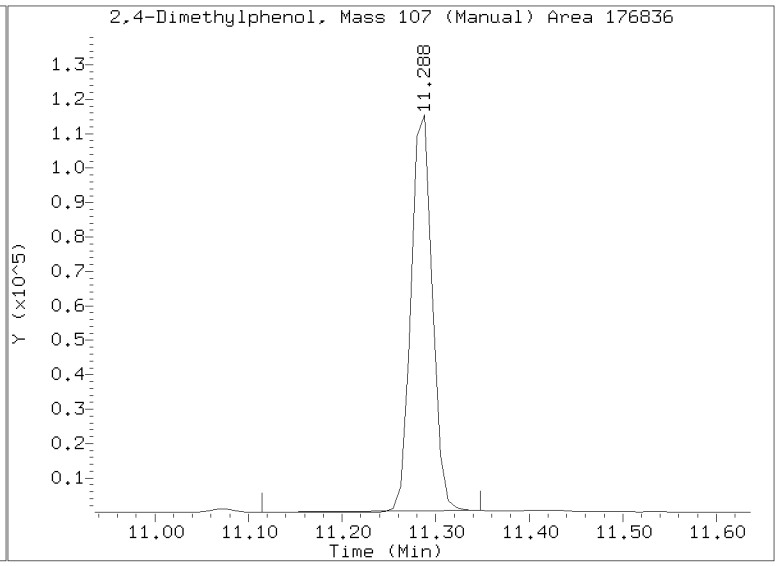
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/20230501.b/NT1005012311S.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0082-SCV1 Client ID:
Report Date: 05/10/2023 12:32





APPROVED

By Deenay Dunmore at 12:52 pm, May 10, 2023

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00018
Laboratory ID: SLE0082-SCV1
Sequence: SLE0082
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.8	-4.3	20.00
1,2-Dichlorobenzene	5.0000	4.7	-6.9	20.00
Benzyl Alcohol	5.0000	5.3	5.4	20.00
Benzoic acid	10.000	8.3	-16.8	20.00
2,4-Dimethylphenol	5.0000	3.5	-30.2 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.3	-13.6	20.00
N-Nitrosodiphenylamine	5.0000	5.3	5.8	20.00
Pentachlorophenol	5.0000	4.3	-13.1	20.00
2-Fluorophenol	7.5000	0.0361	-99.5	
p-Terphenyl-d14	5.0000	0.0244	-99.5	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

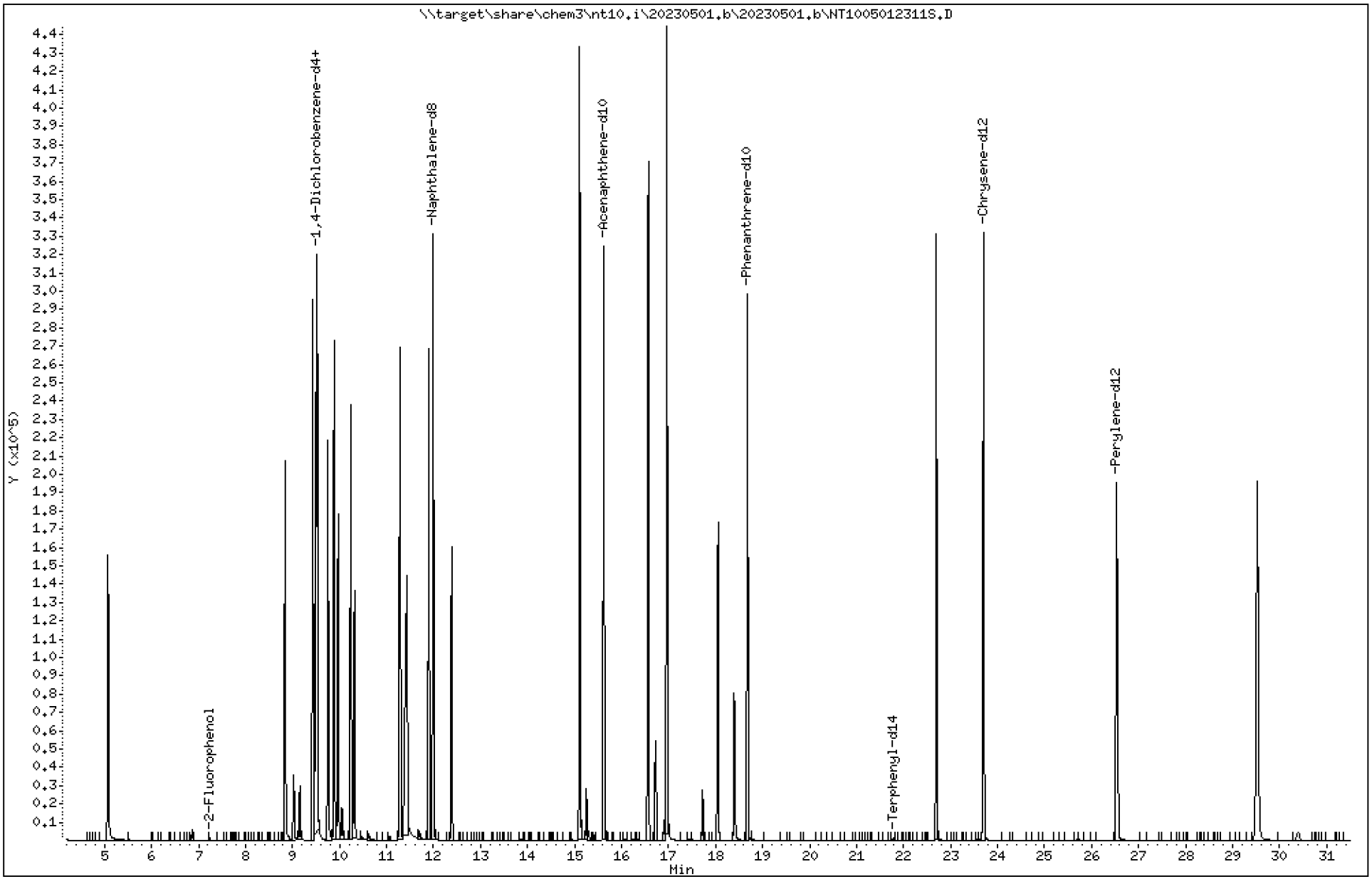
Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

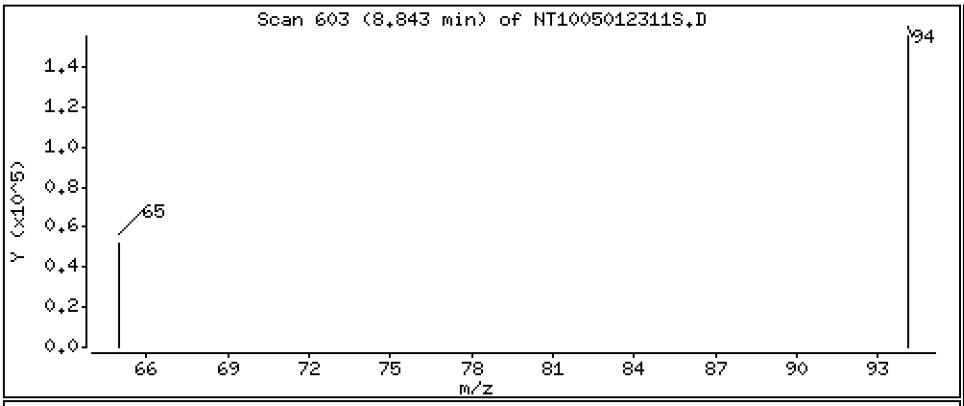
Operator: JGR

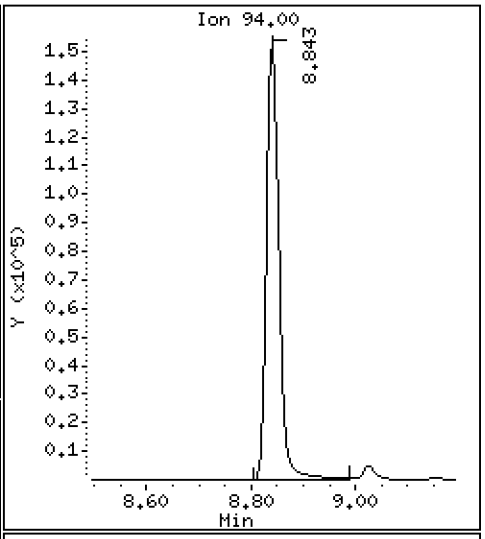
Column phase: ZB-5msi

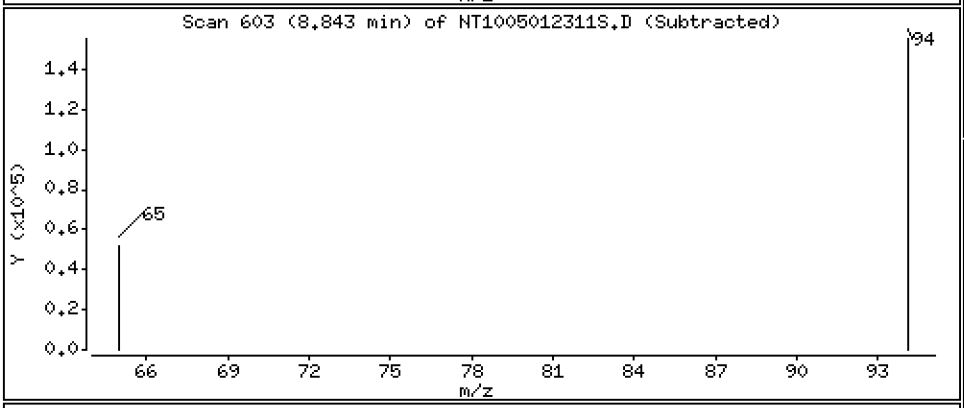
Column diameter: 0.25

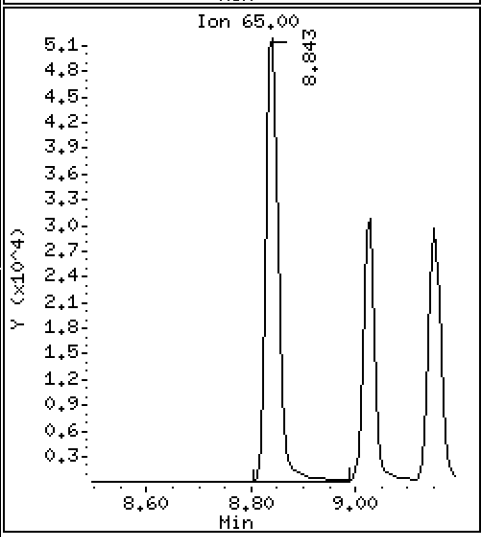
3 Phenol

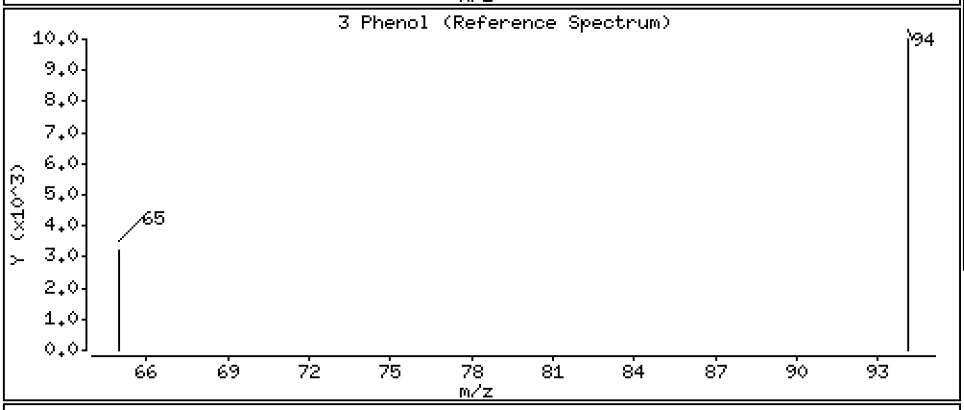
Concentration: 4.436 ug/L

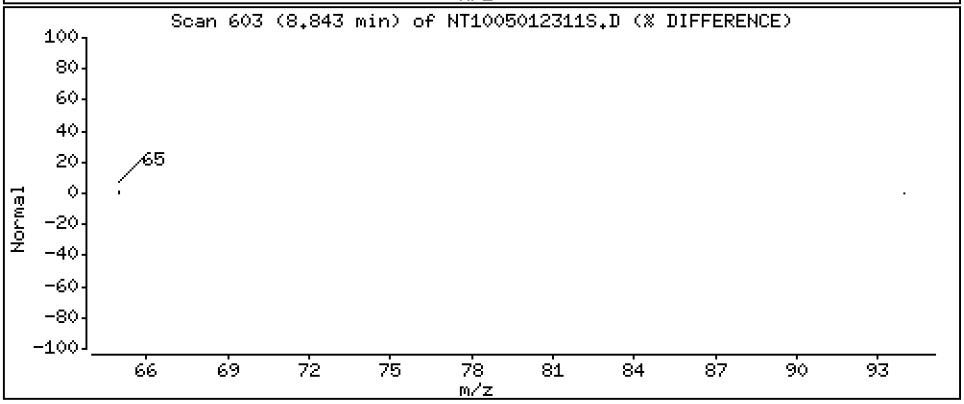












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

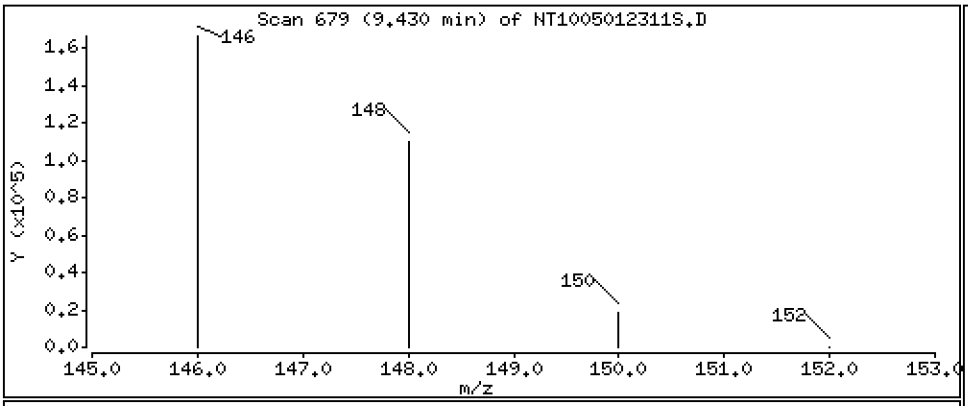
Operator: JGR

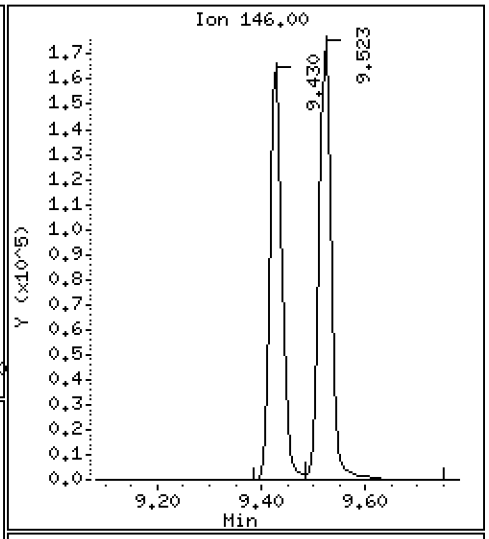
Column phase: ZB-5msi

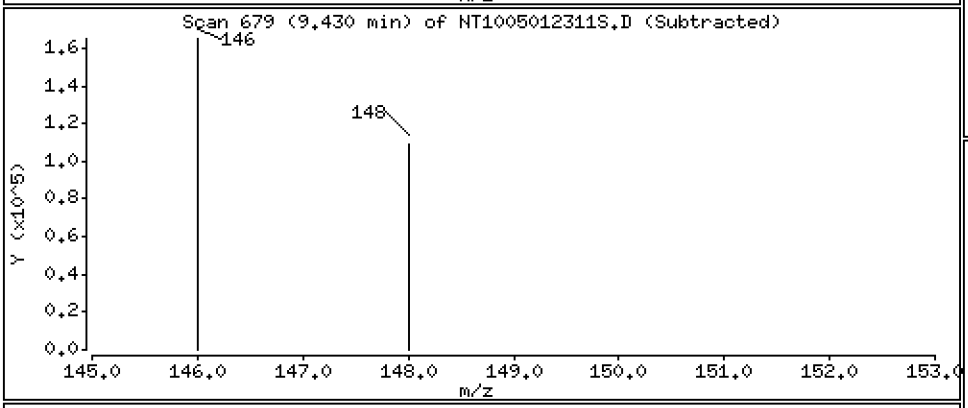
Column diameter: 0.25

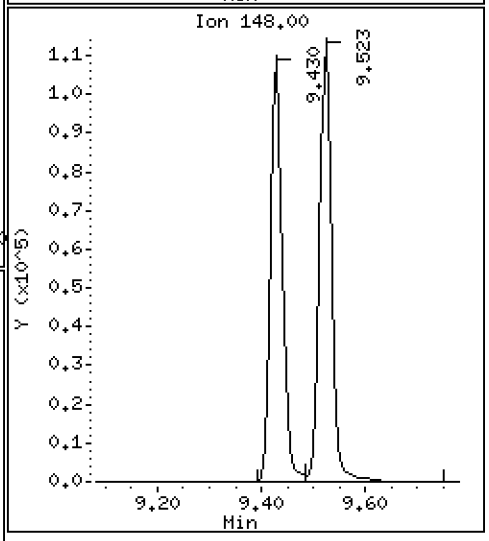
7 1,3-Dichlorobenzene

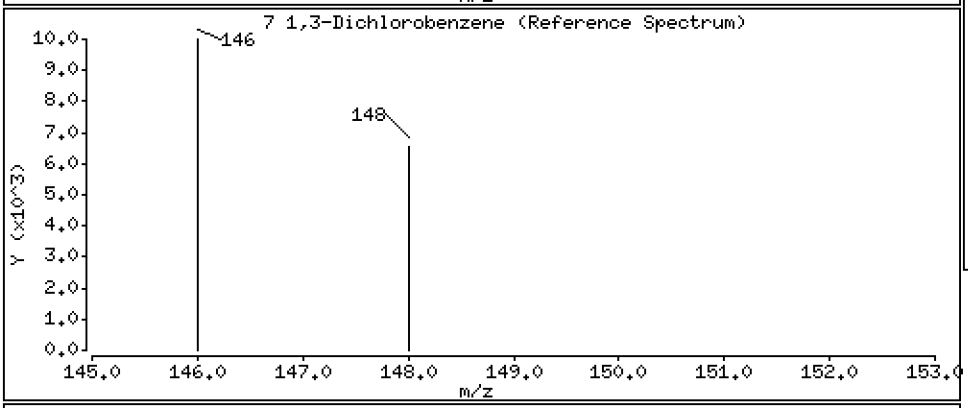
Concentration: 4.661 ug/L

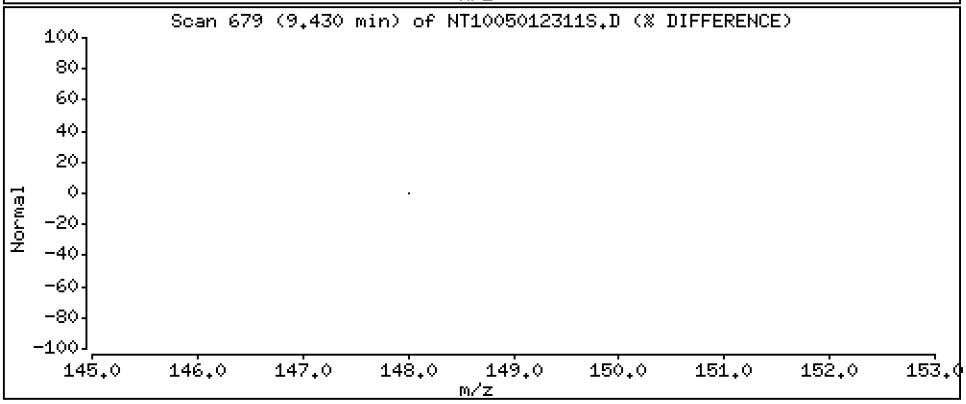












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

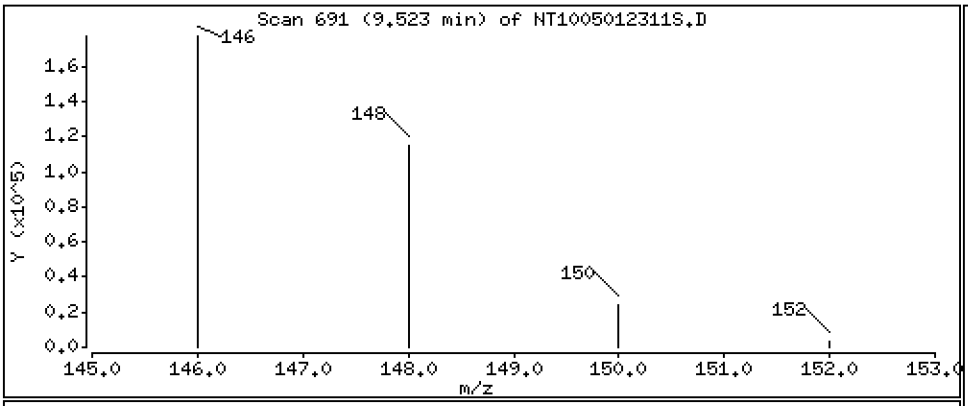
Operator: JGR

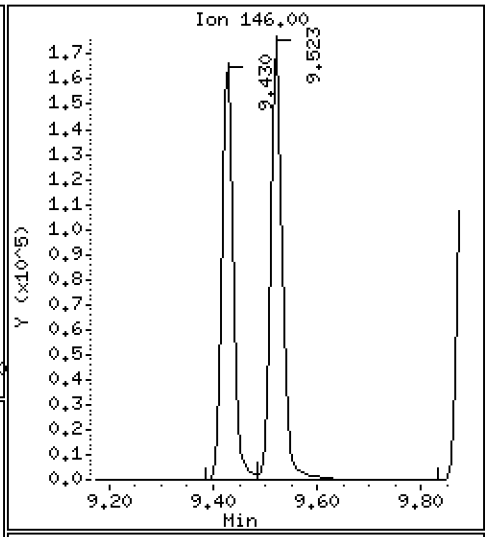
Column phase: ZB-5msi

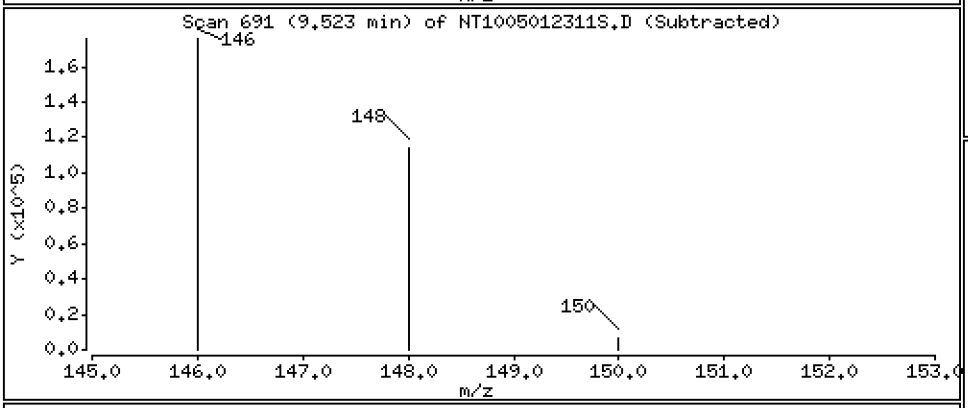
Column diameter: 0.25

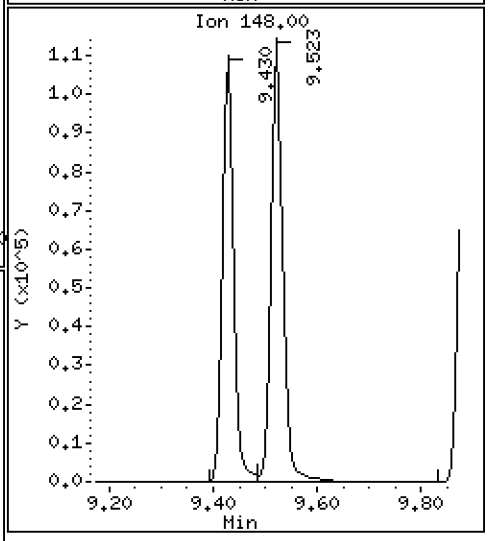
9 1,4-Dichlorobenzene

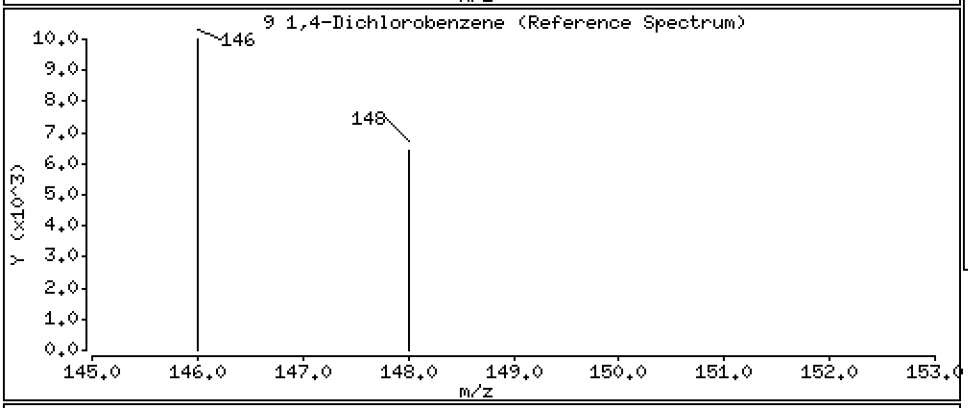
Concentration: 4.784 ug/L

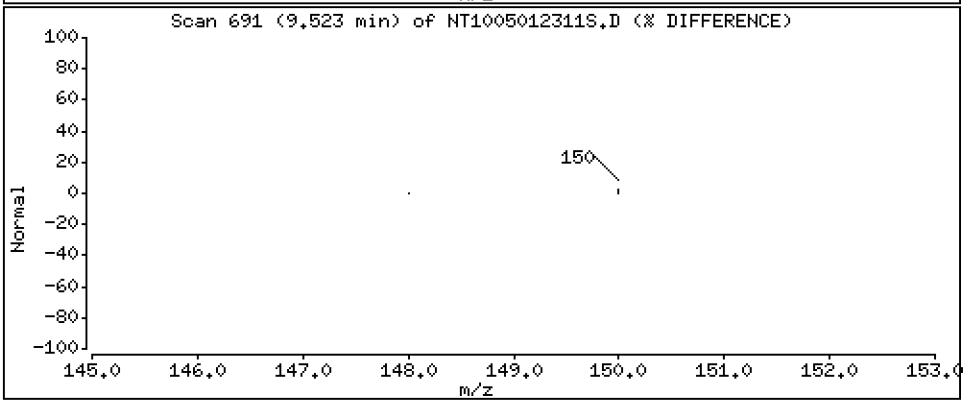












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

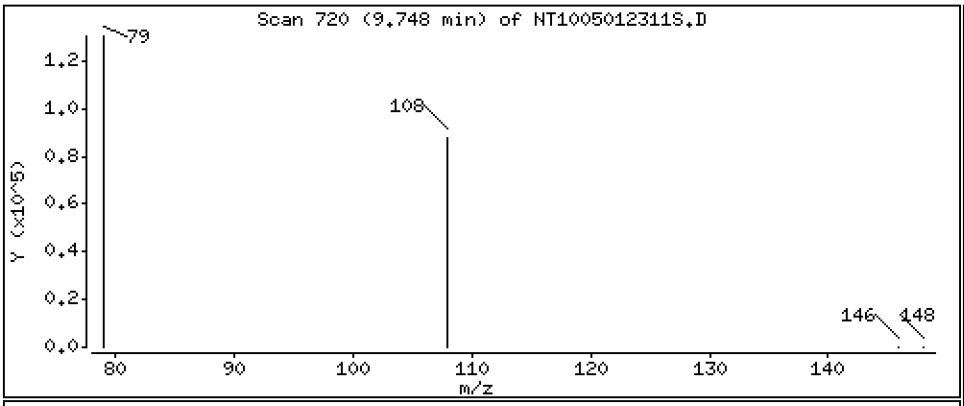
Operator: JGR

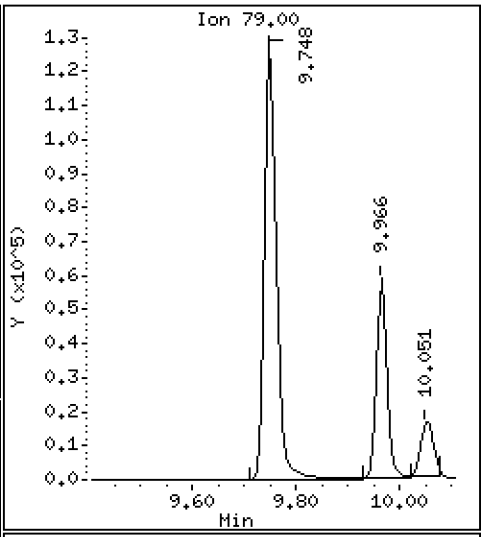
Column phase: ZB-5msi

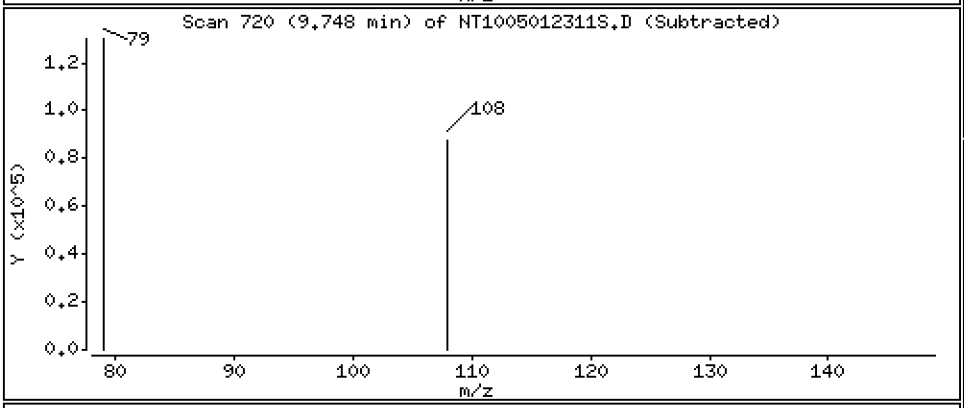
Column diameter: 0.25

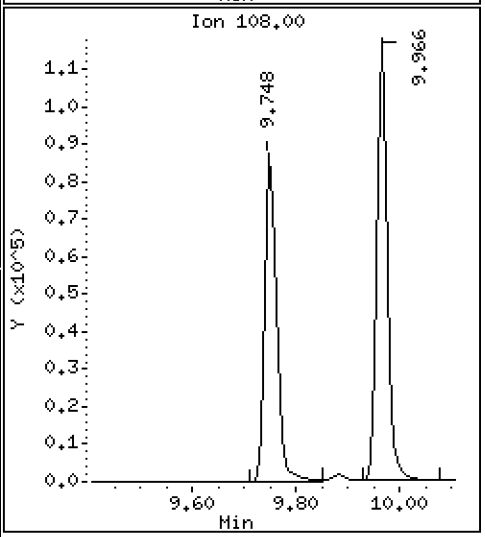
11 Benzyl alcohol

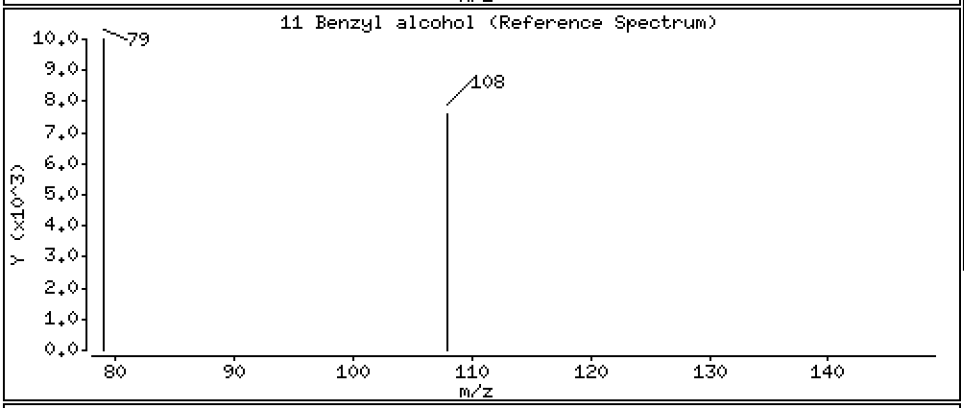
Concentration: 5.272 ug/L

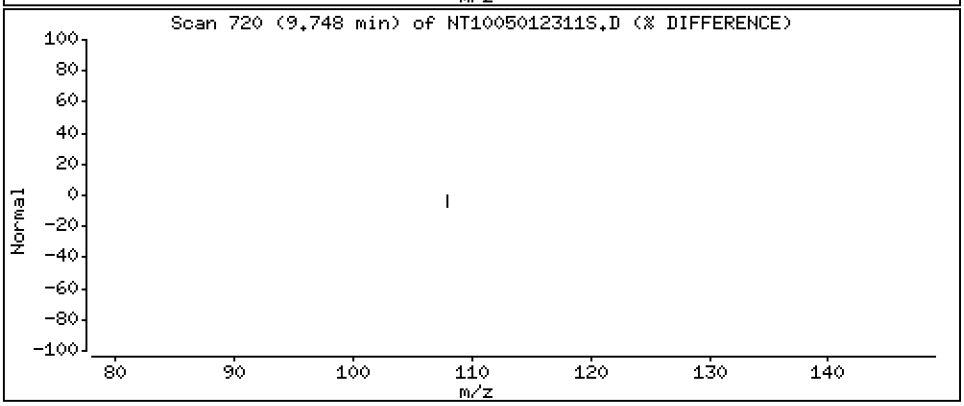












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

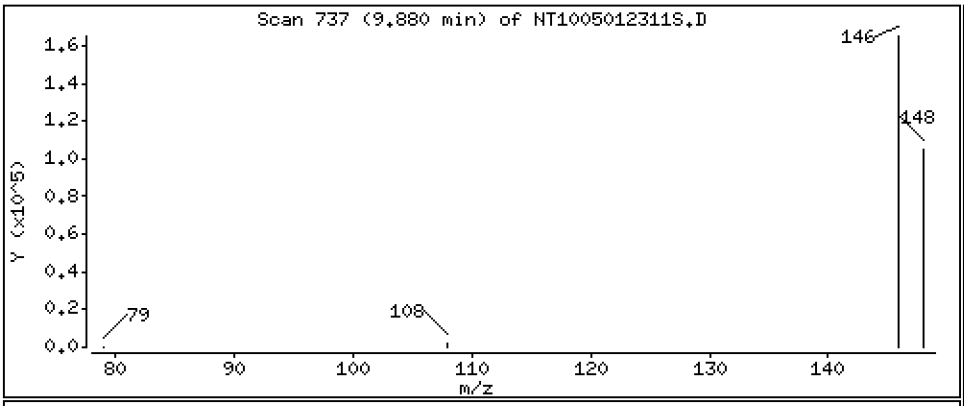
Operator: JGR

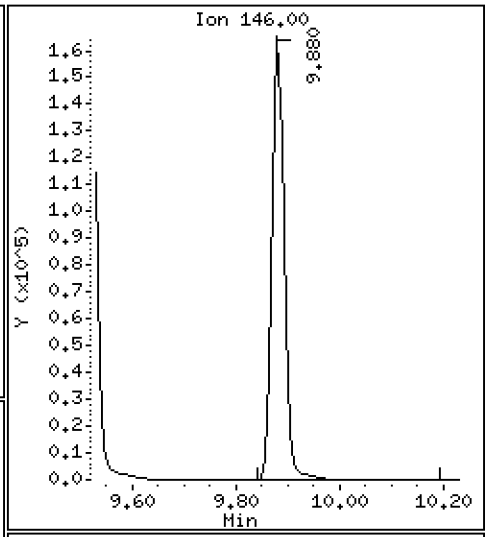
Column phase: ZB-5msi

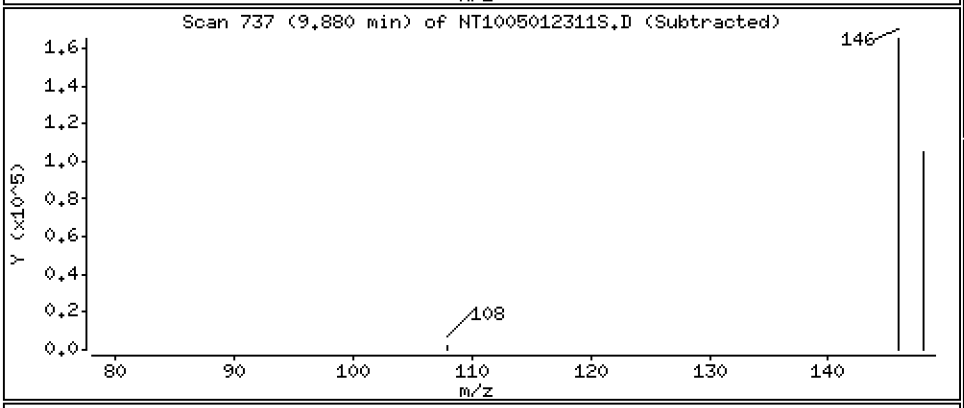
Column diameter: 0.25

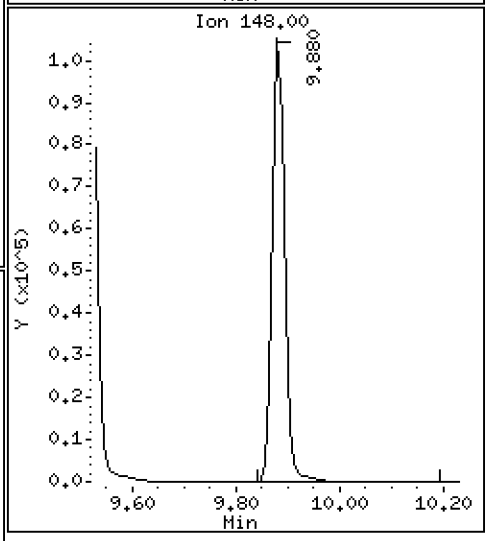
12 1,2-Dichlorobenzene

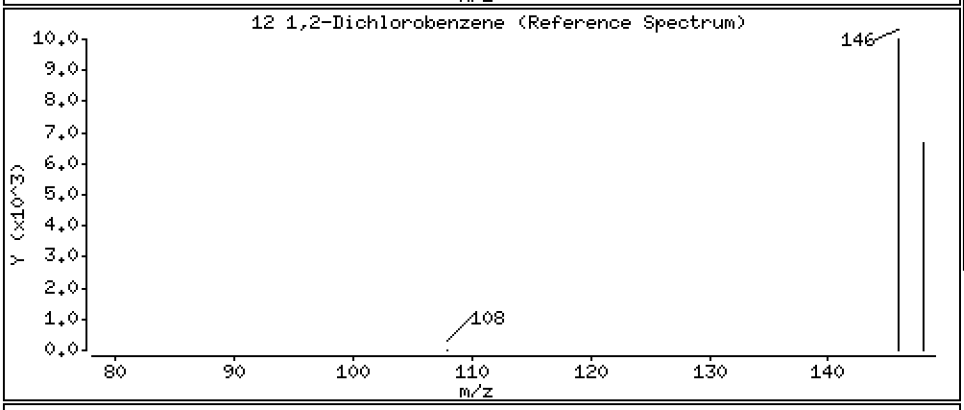
Concentration: 4.657 ug/L

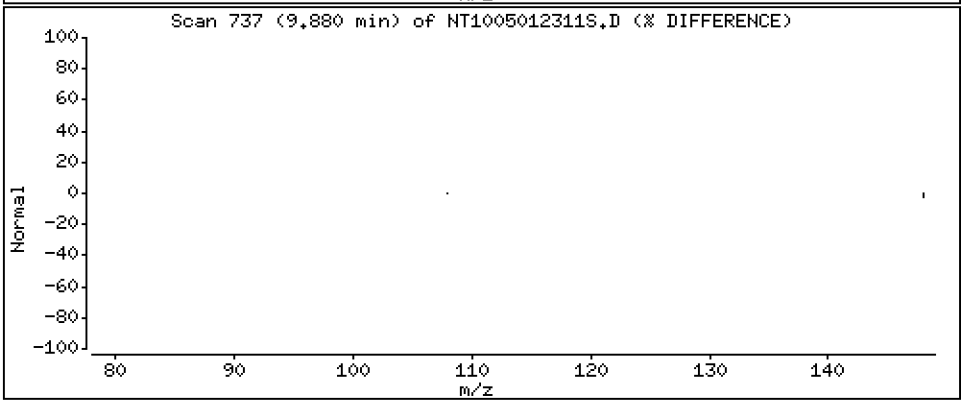












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

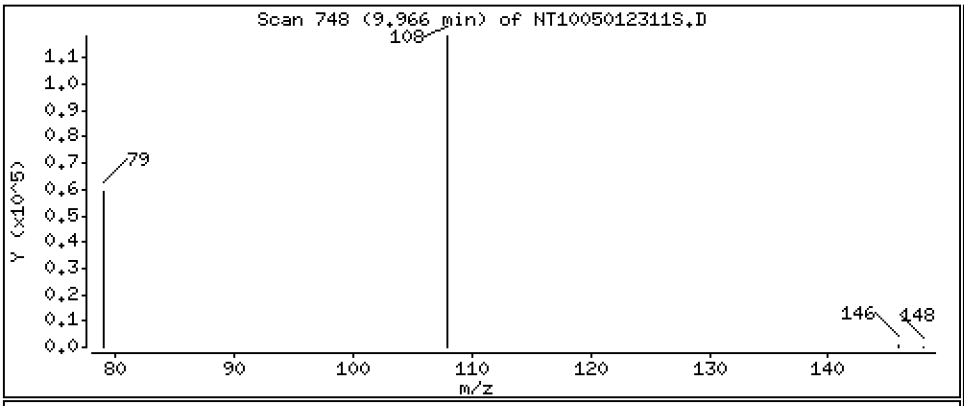
Operator: JGR

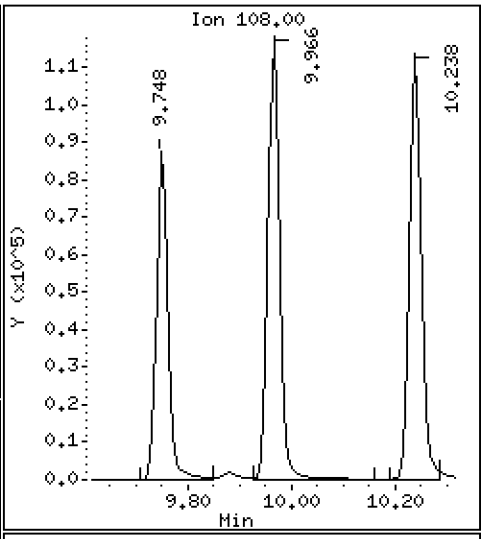
Column phase: ZB-5msi

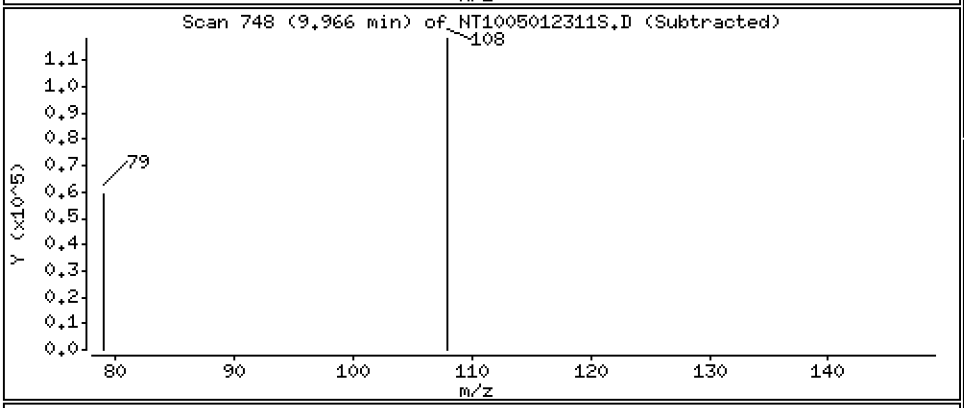
Column diameter: 0.25

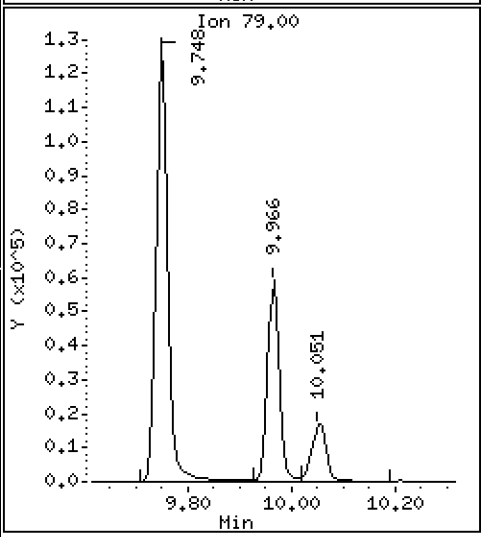
13 2-Methylphenol

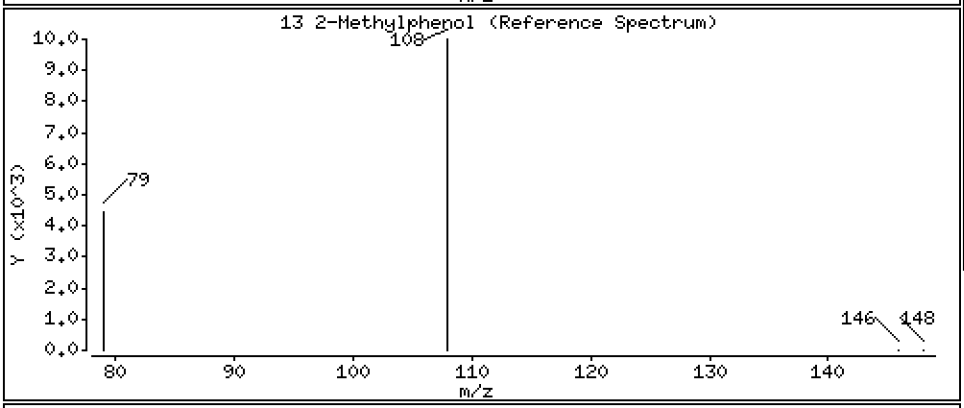
Concentration: 4.243 ug/L

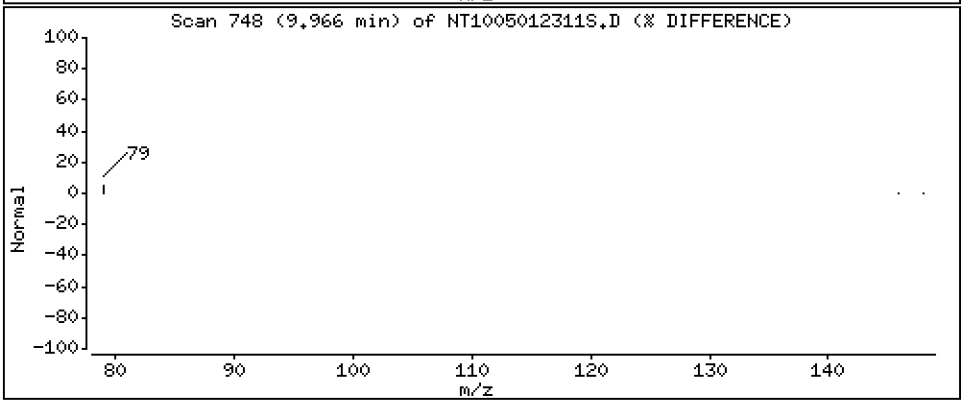












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

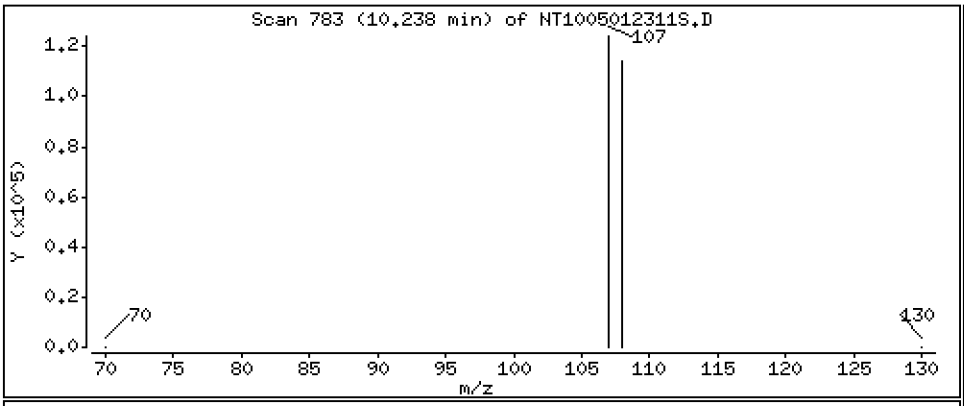
Operator: JGR

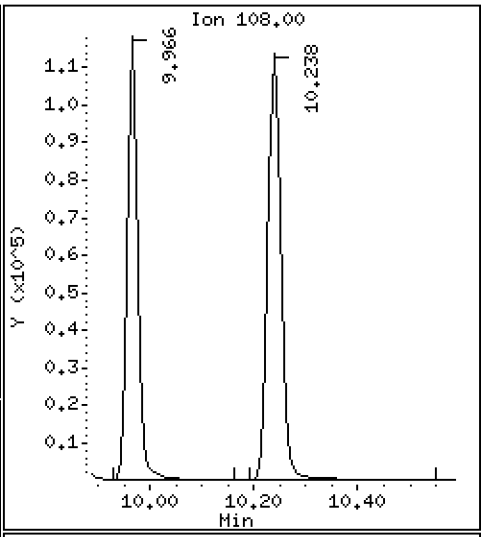
Column phase: ZB-5msi

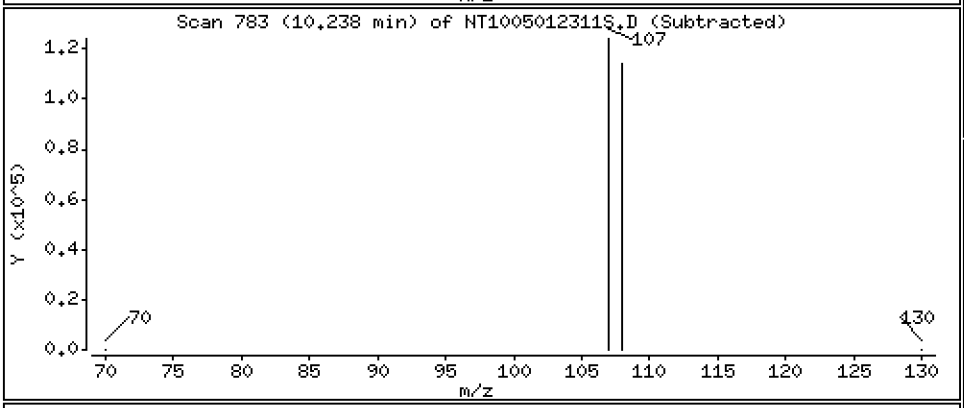
Column diameter: 0.25

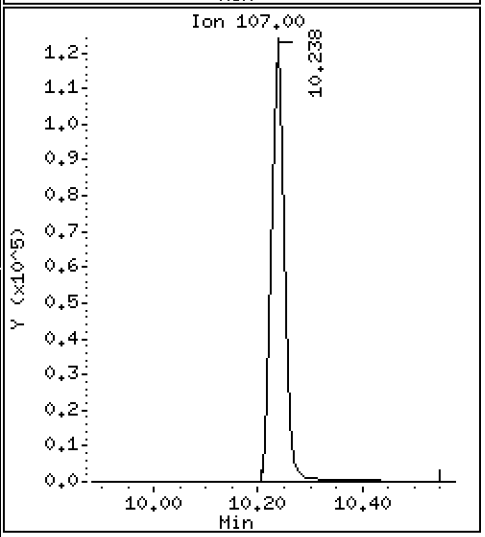
15 4-Methylphenol

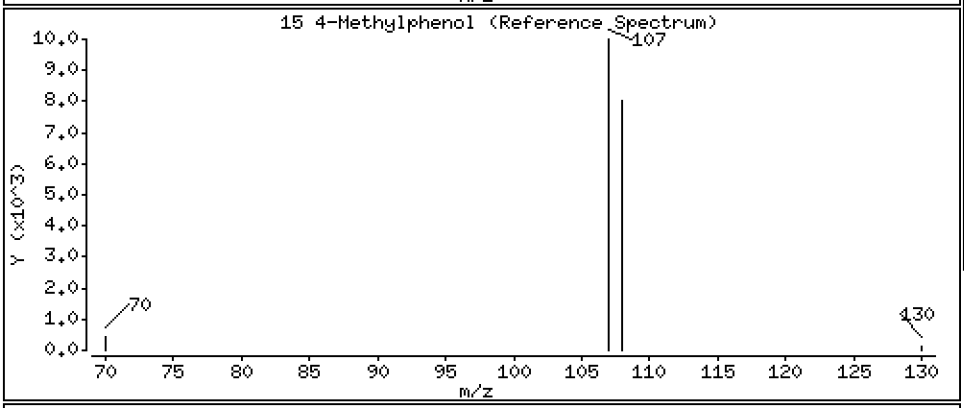
Concentration: 4.470 ug/L

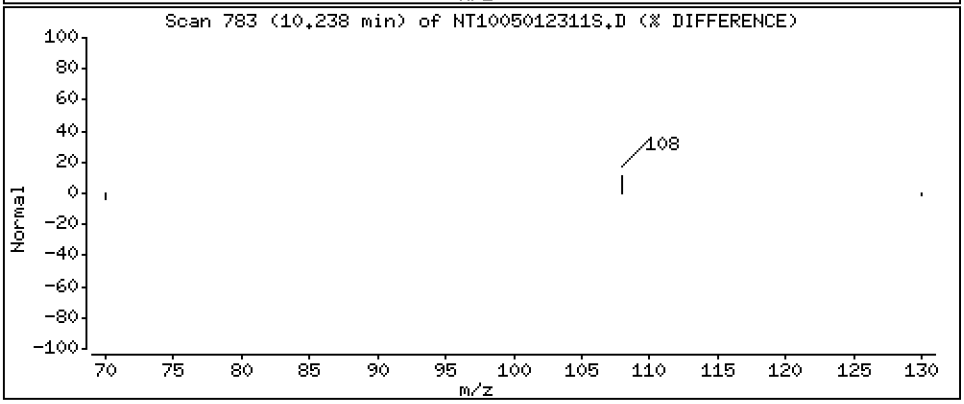












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

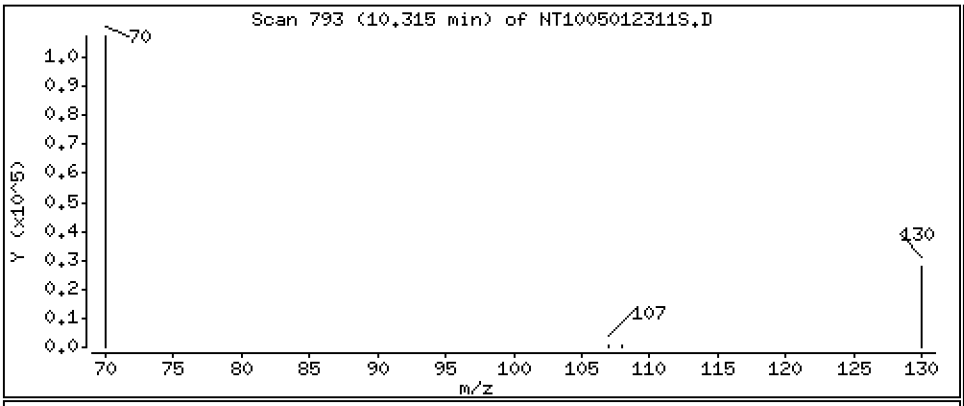
Operator: JGR

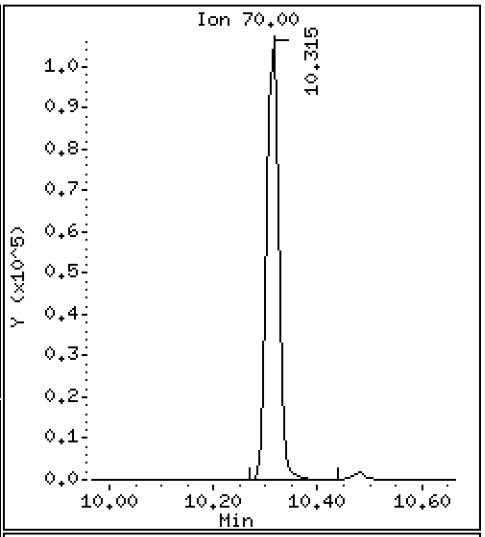
Column phase: ZB-5msi

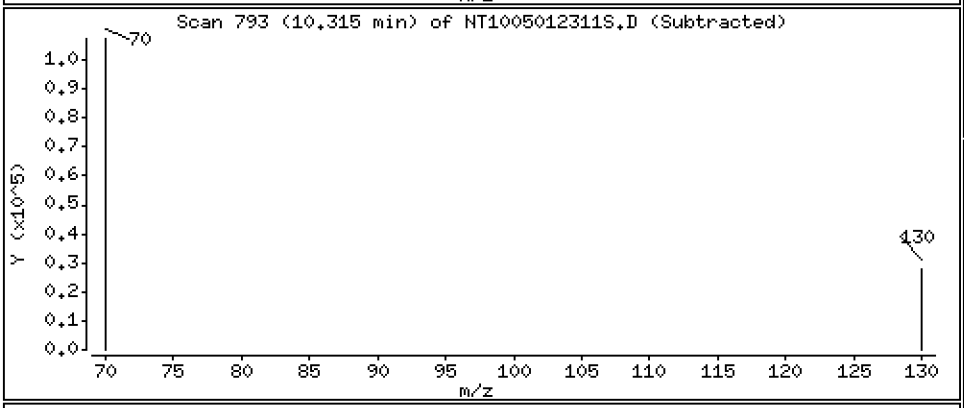
Column diameter: 0.25

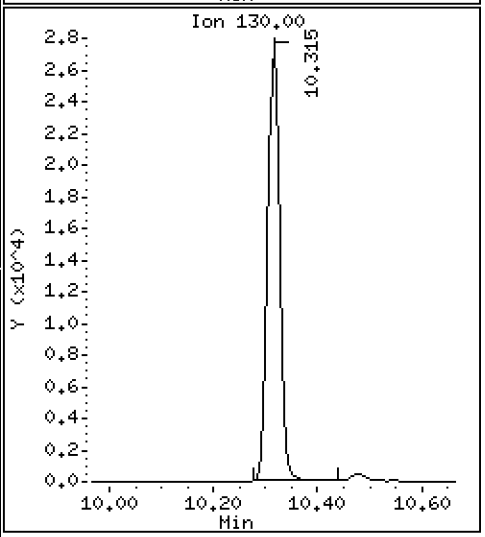
16 N-Nitroso-di-n-propylamine

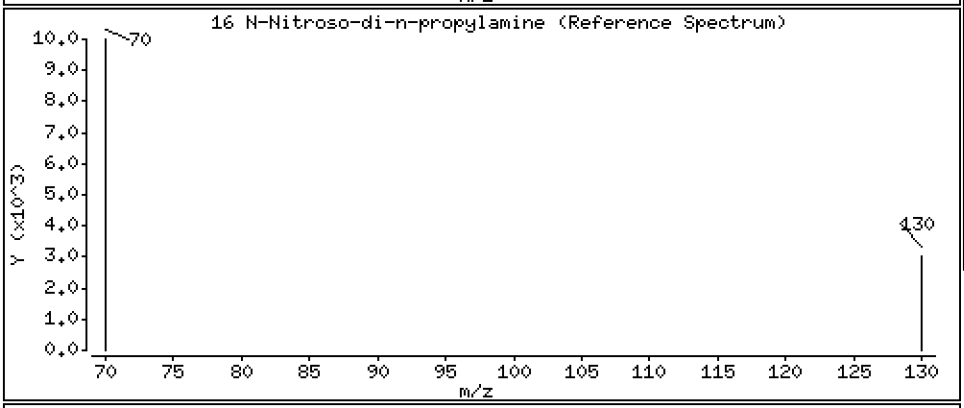
Concentration: 5.268 ug/L

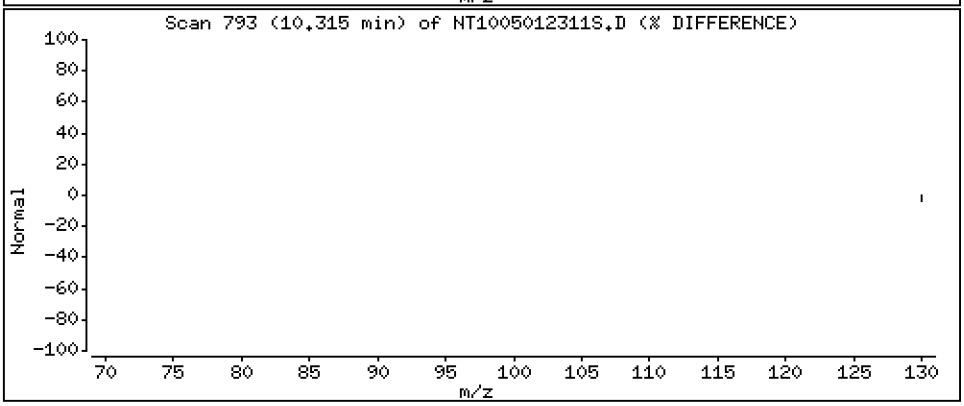












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

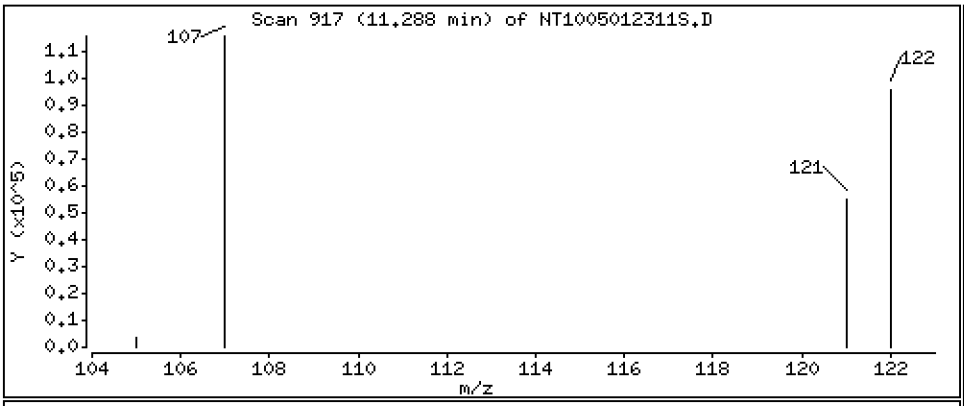
Operator: JGR

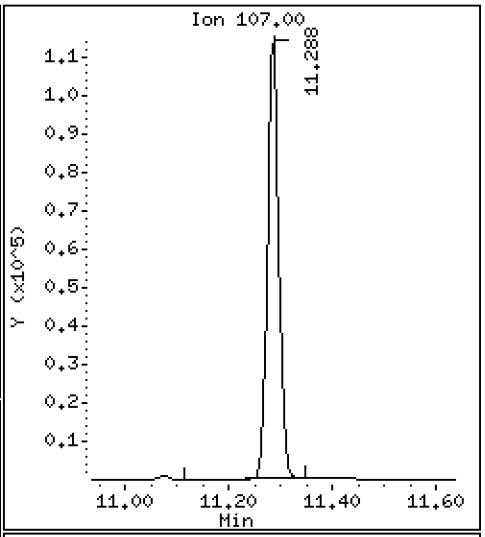
Column phase: ZB-5msi

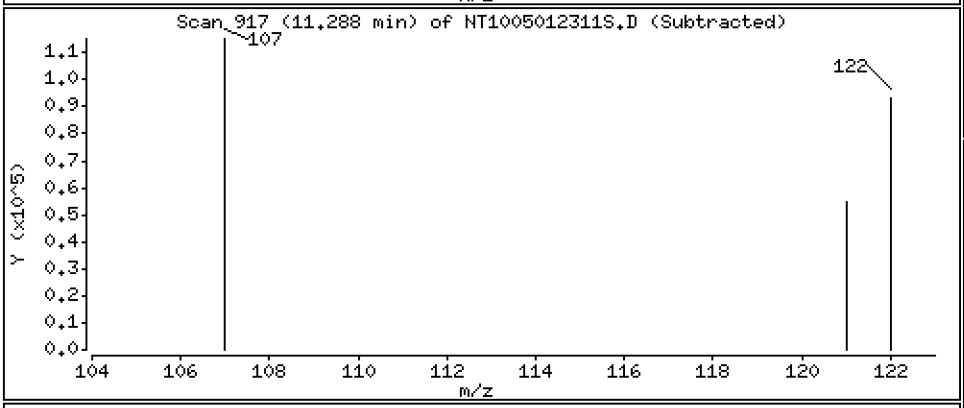
Column diameter: 0.25

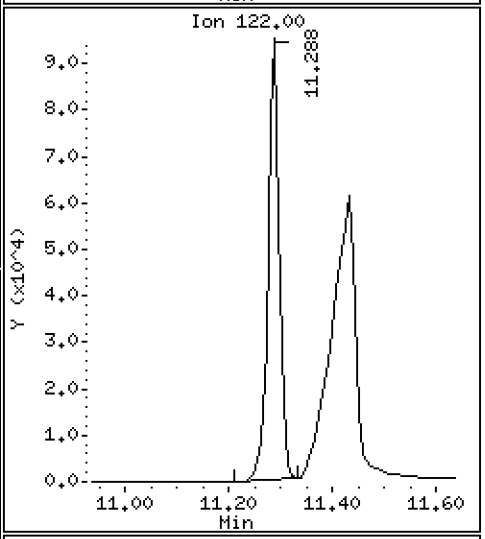
22 2,4-Dimethylphenol

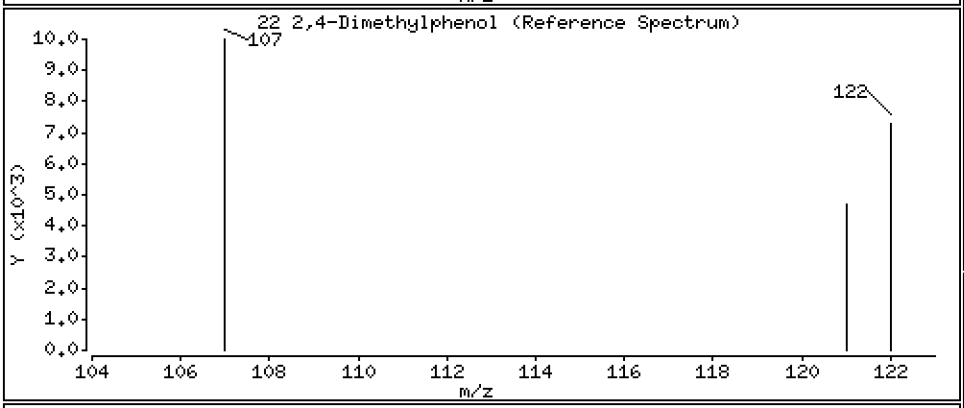
Concentration: 3.489 ug/L

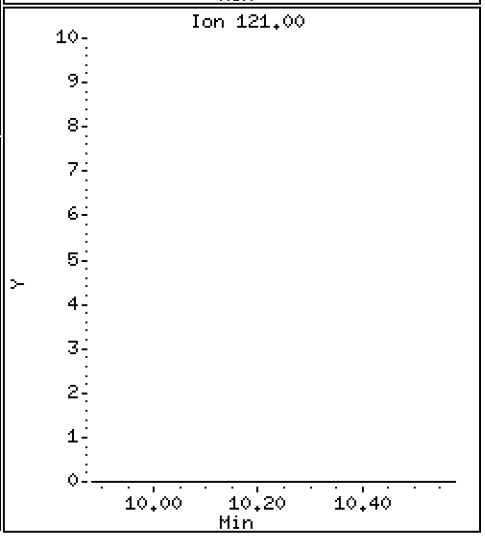


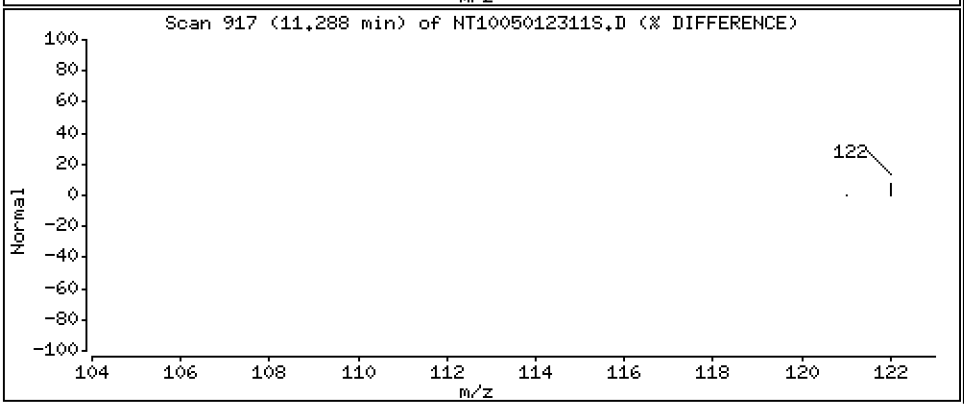












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

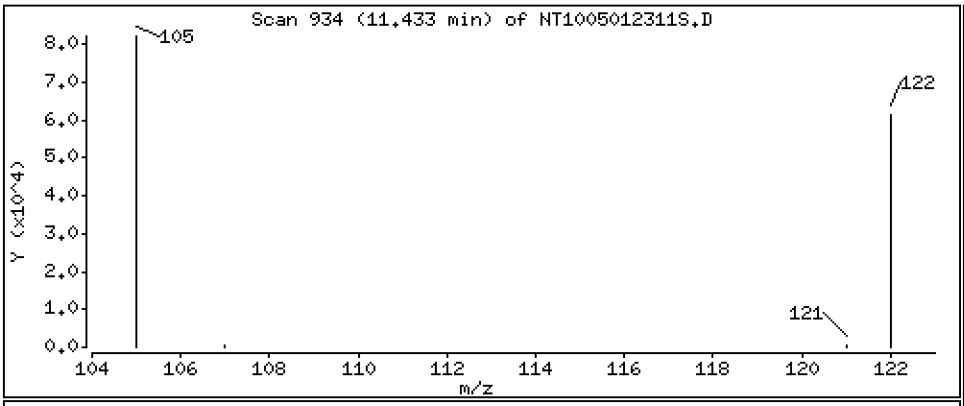
Operator: JGR

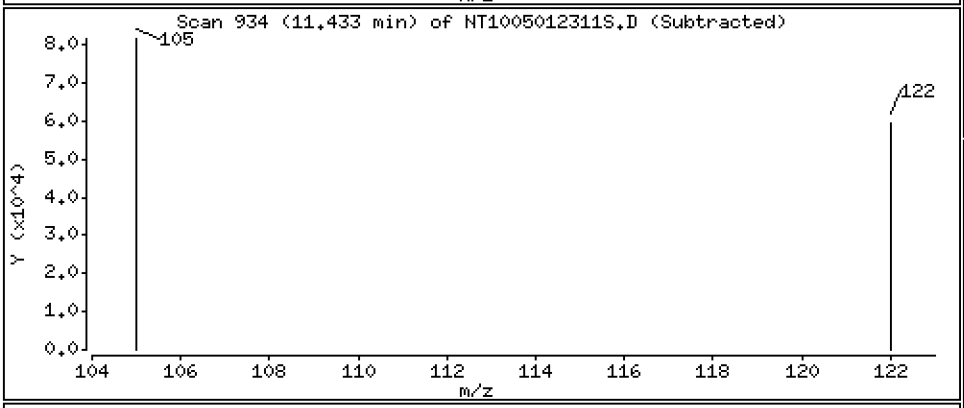
Column phase: ZB-5msi

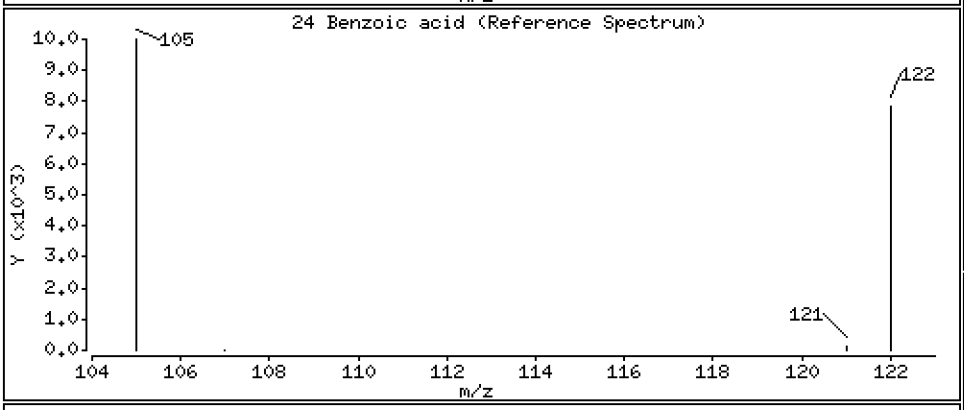
Column diameter: 0.25

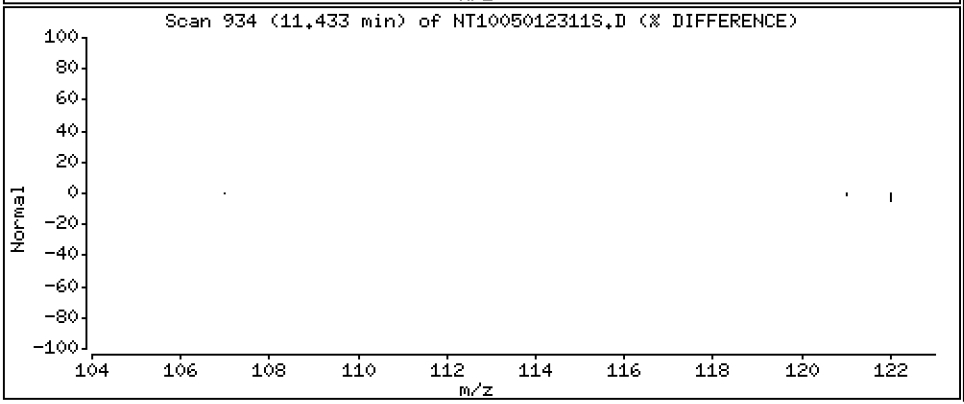
24 Benzoic acid

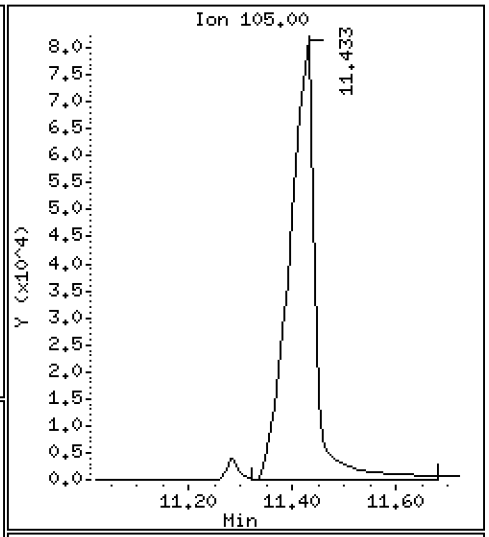
Concentration: 8.322 ug/L

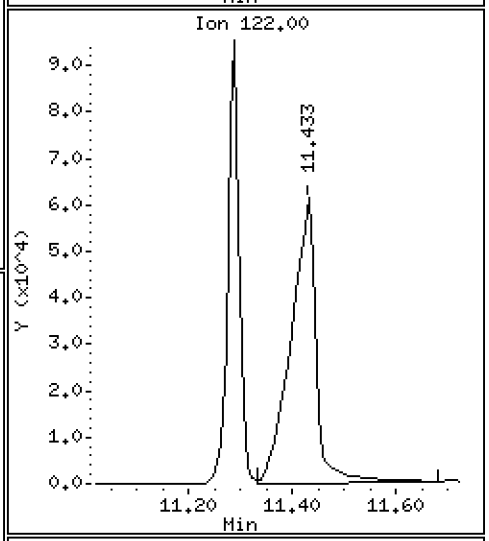


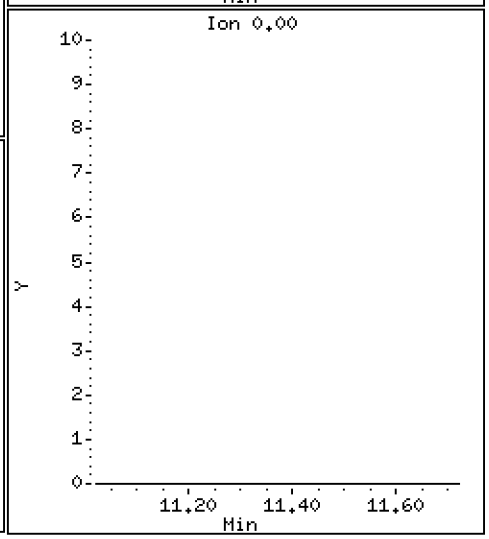












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

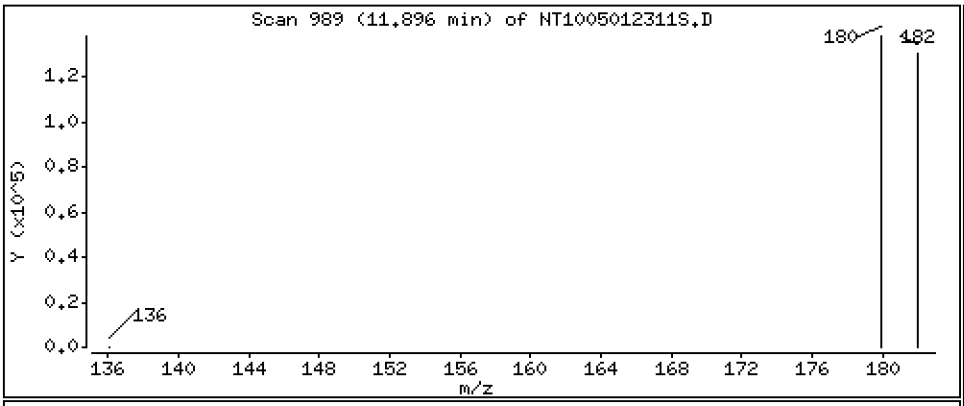
Operator: JGR

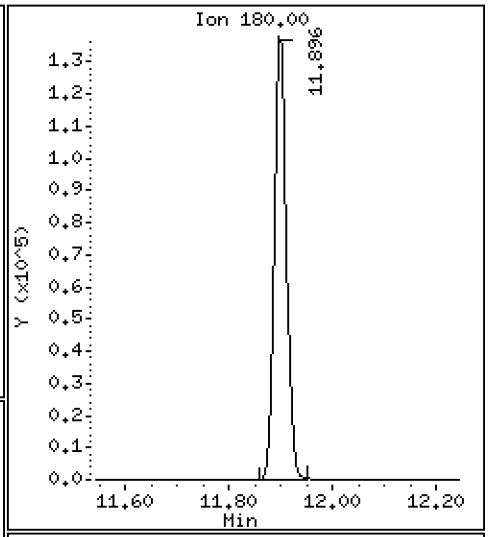
Column phase: ZB-5msi

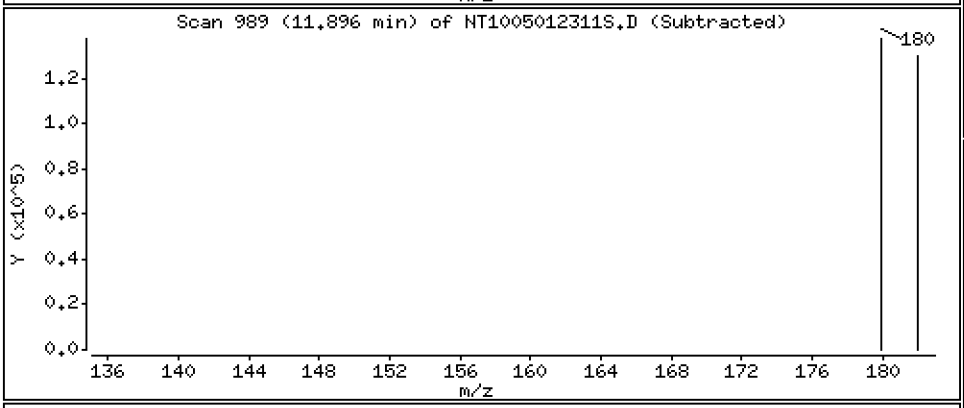
Column diameter: 0.25

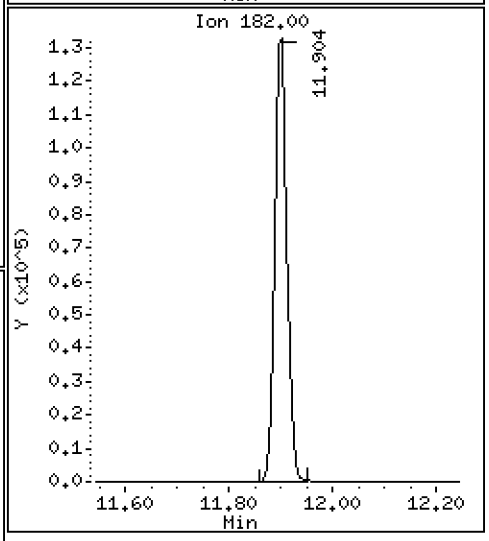
26 1,2,4-Trichlorobenzene

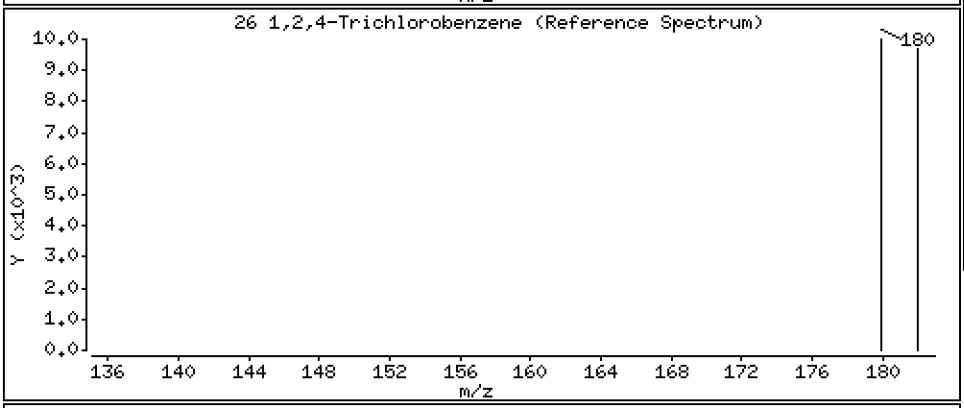
Concentration: 4.321 ug/L

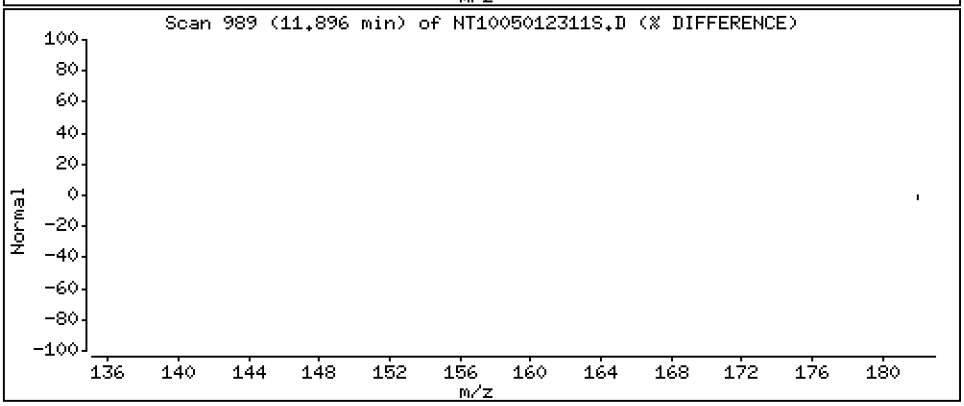












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

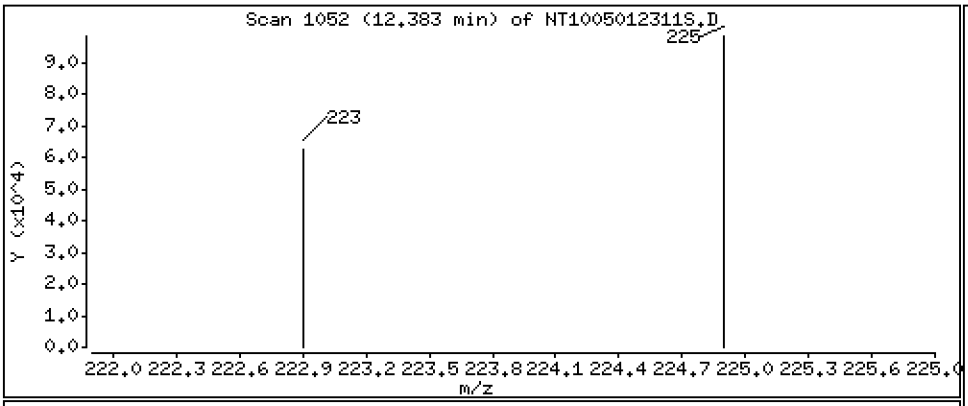
Operator: JGR

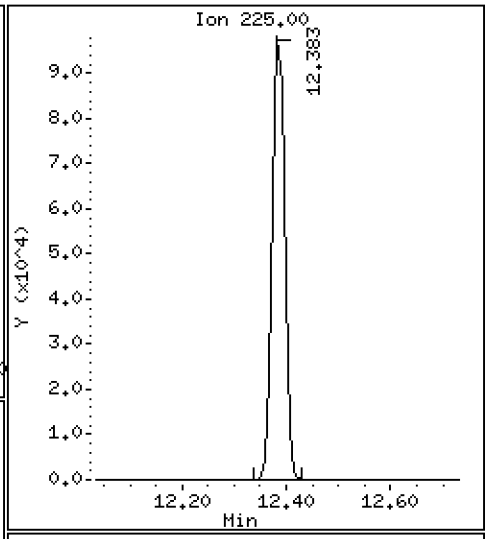
Column phase: ZB-5msi

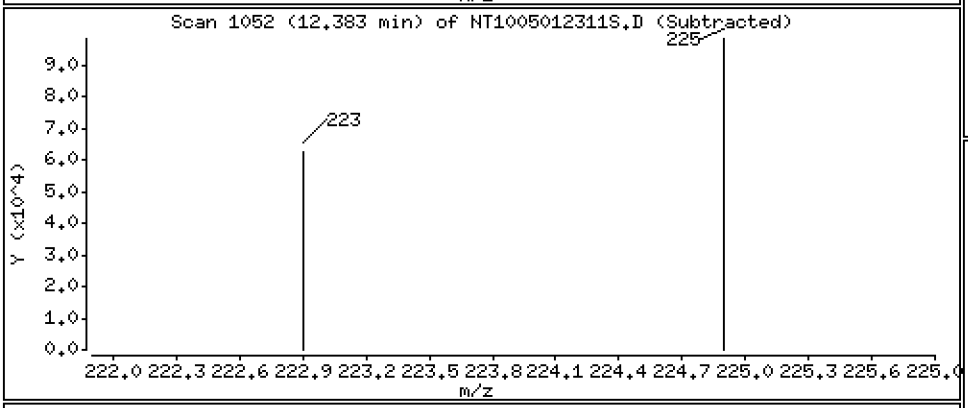
Column diameter: 0.25

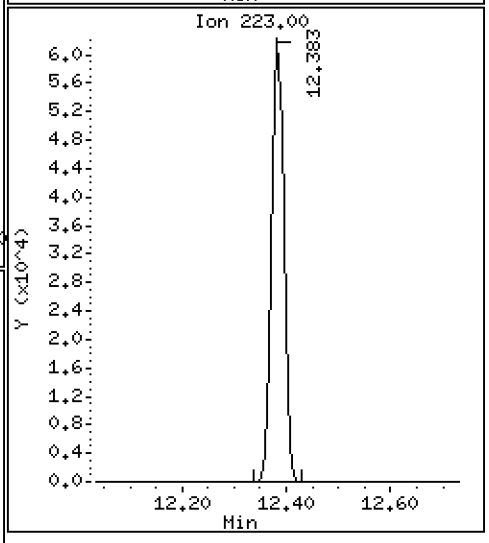
30 Hexachlorobutadiene

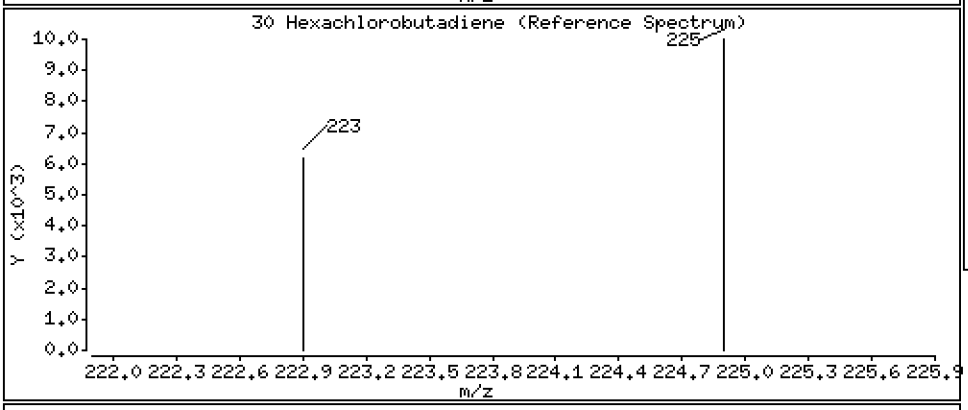
Concentration: 4.632 ug/L

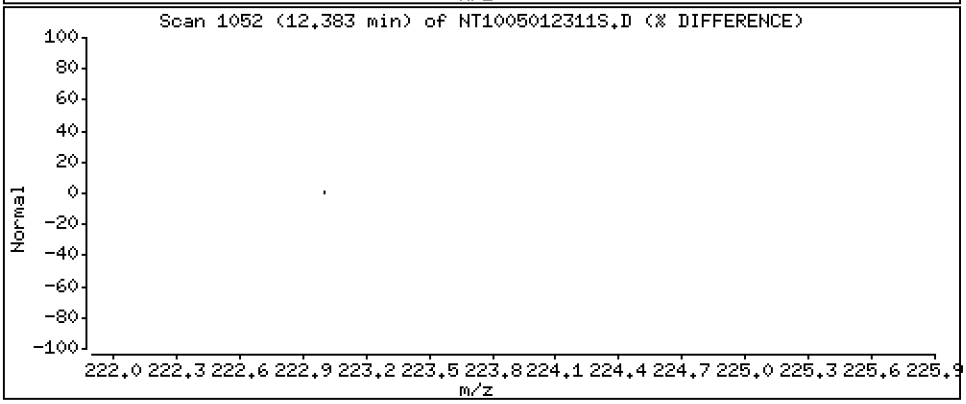












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

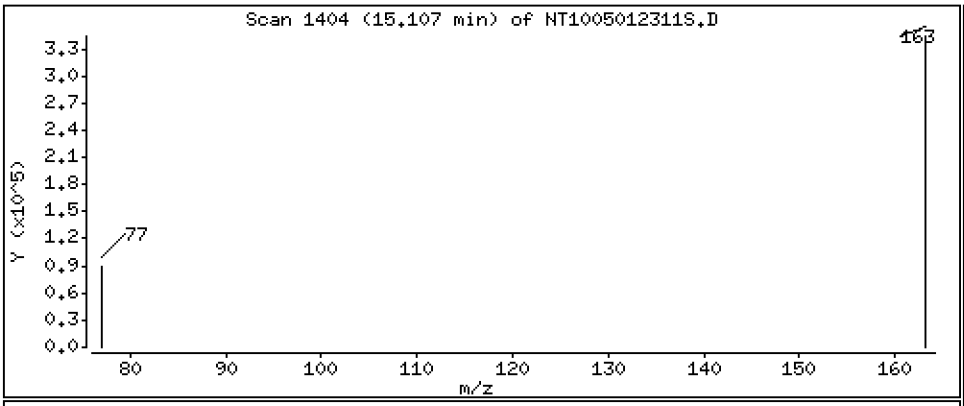
Operator: JGR

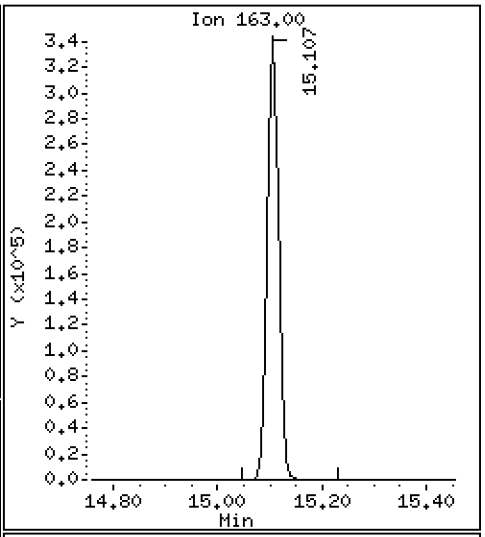
Column phase: ZB-5msi

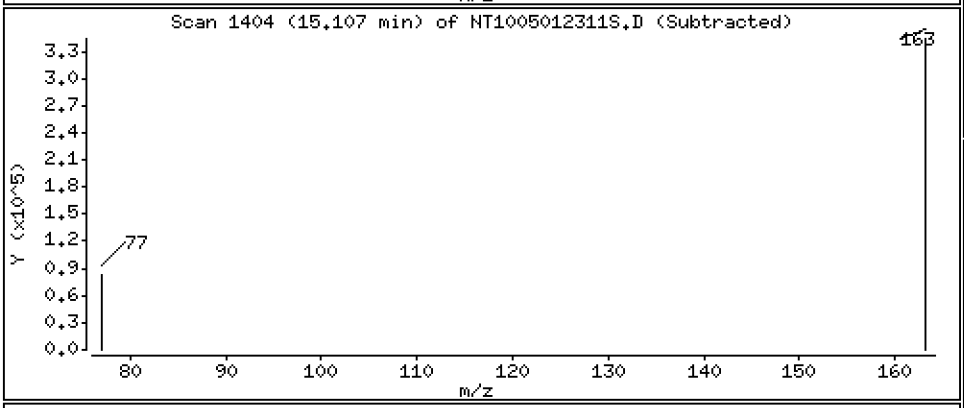
Column diameter: 0.25

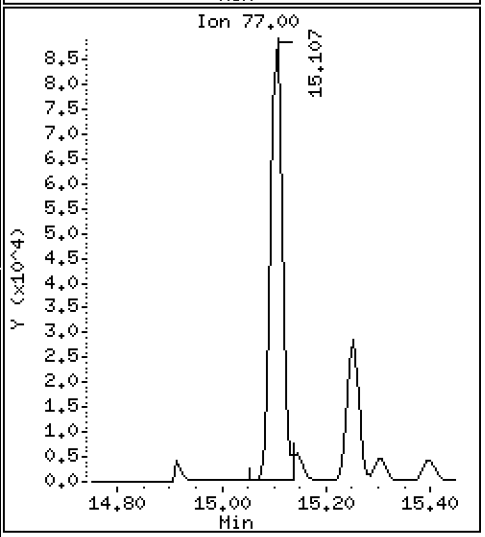
39 Dimethylphthalate

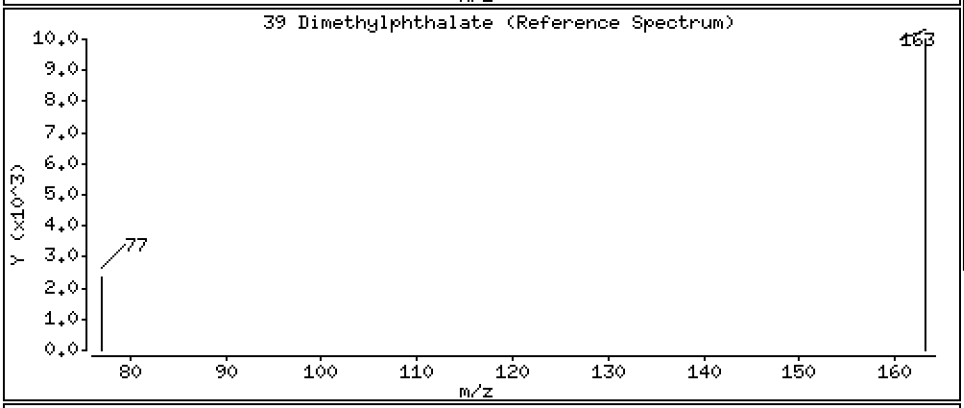
Concentration: 4.875 ug/L

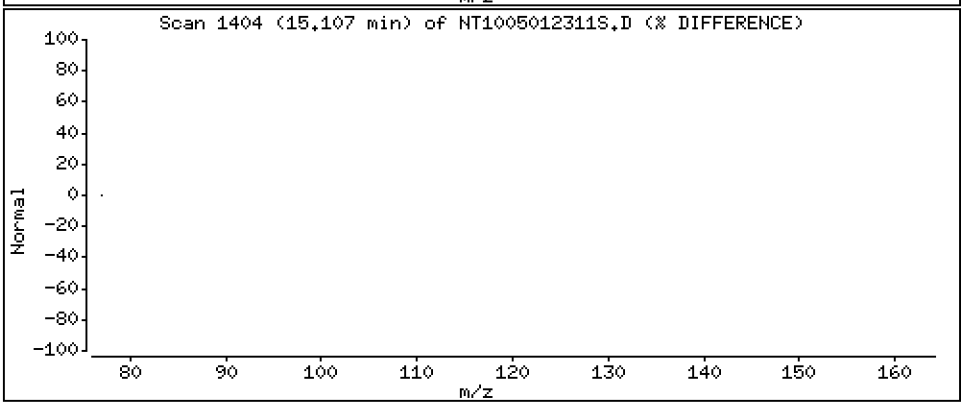












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

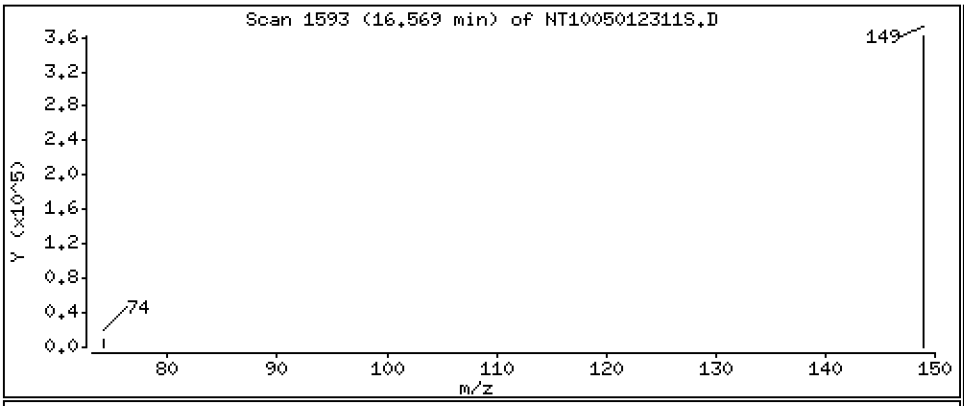
Operator: JGR

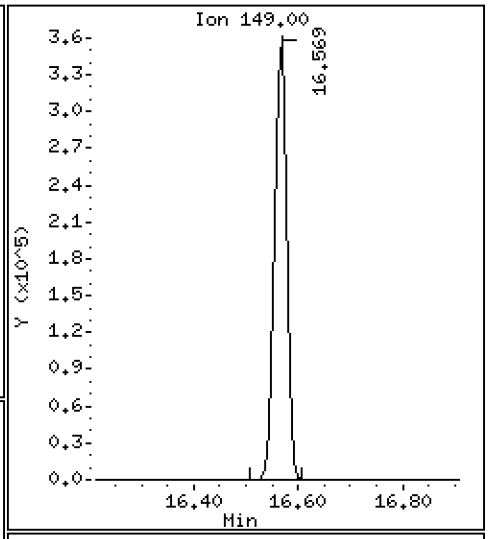
Column phase: ZB-5msi

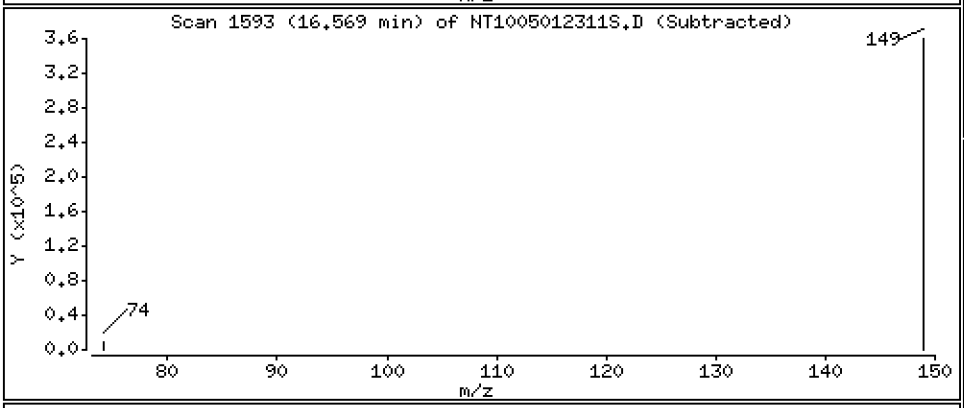
Column diameter: 0.25

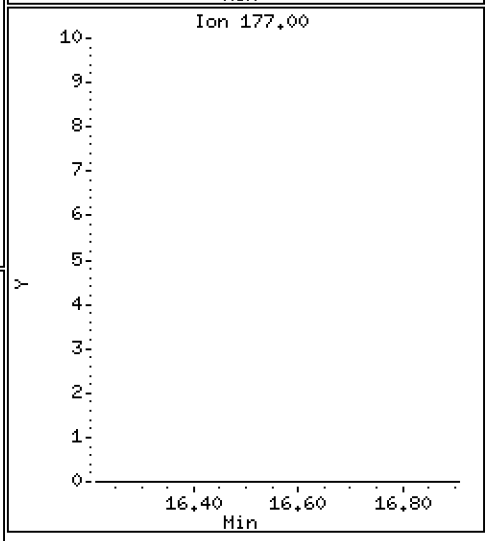
50 Diethylphthalate

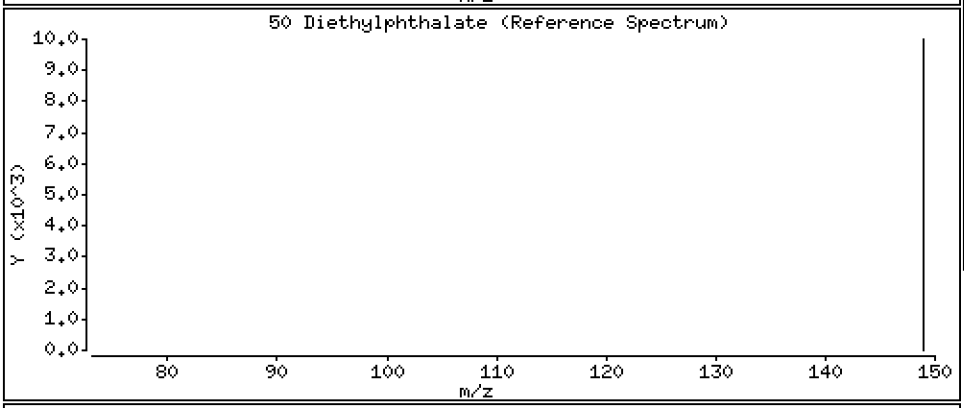
Concentration: 5.253 ug/L

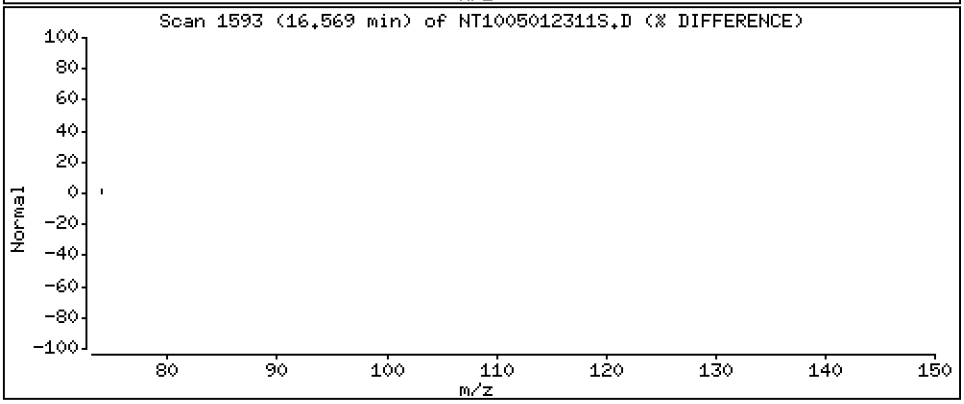












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

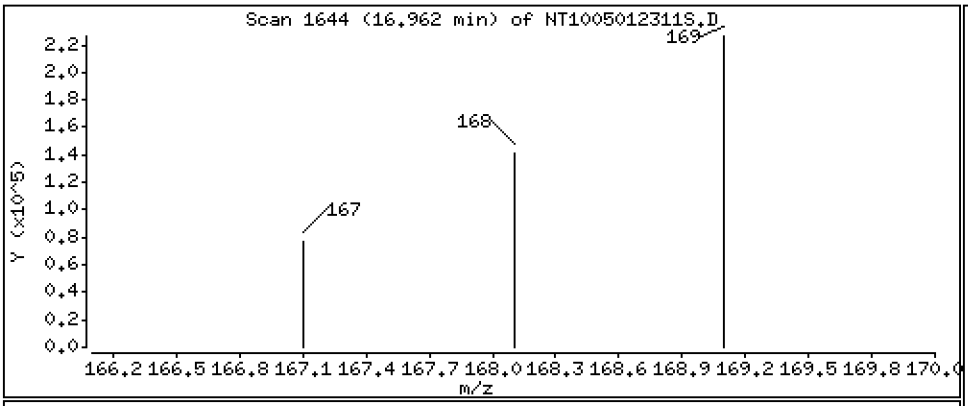
Operator: JGR

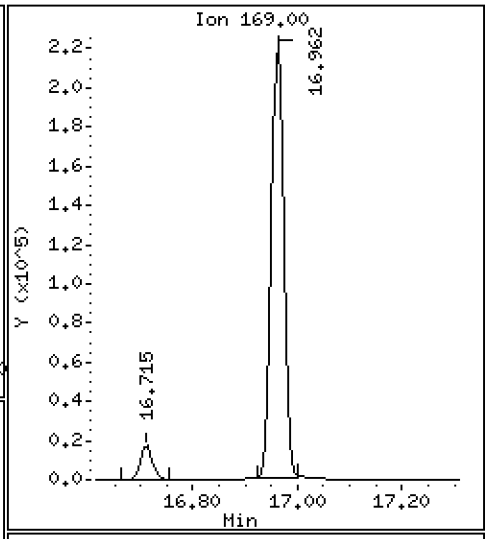
Column phase: ZB-5msi

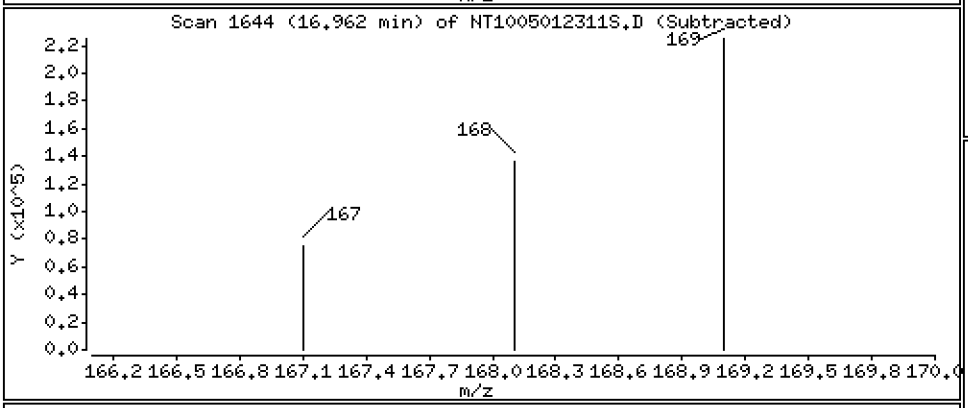
Column diameter: 0.25

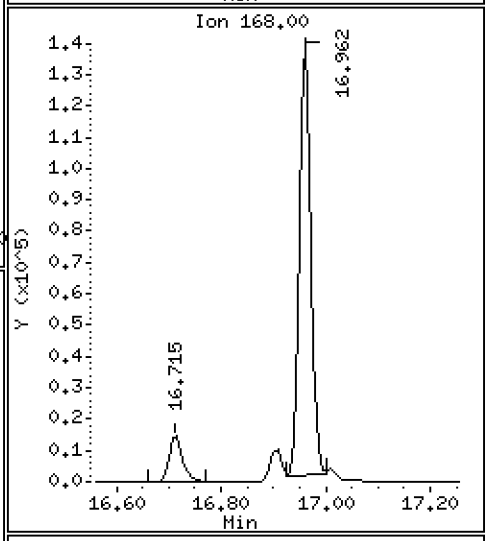
54 N-Nitrosodiphenylamine

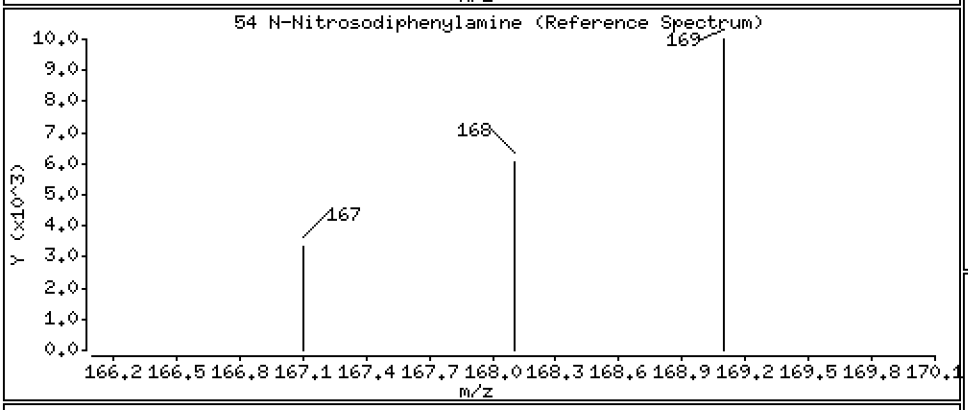
Concentration: 5.289 ug/L

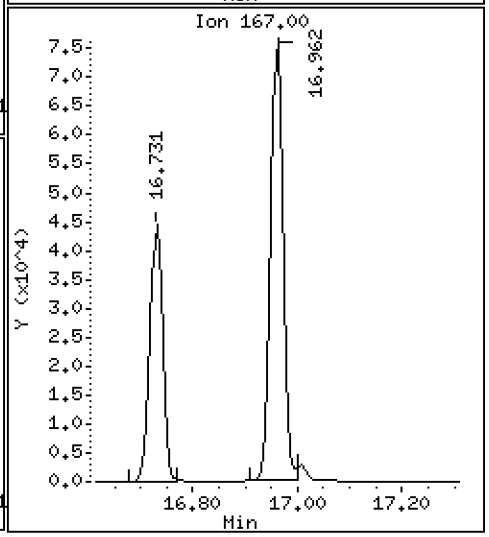


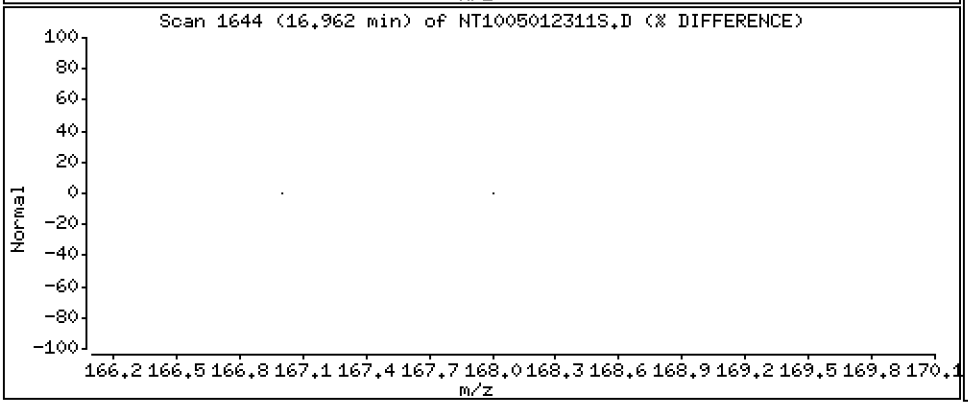












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

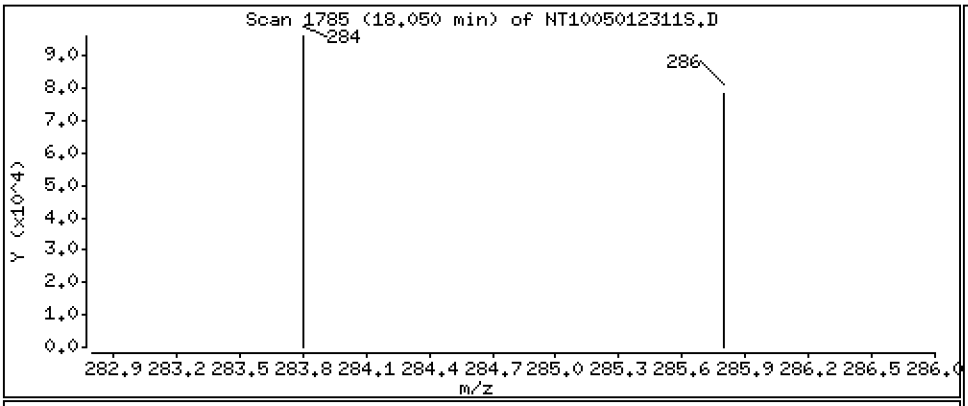
Operator: JGR

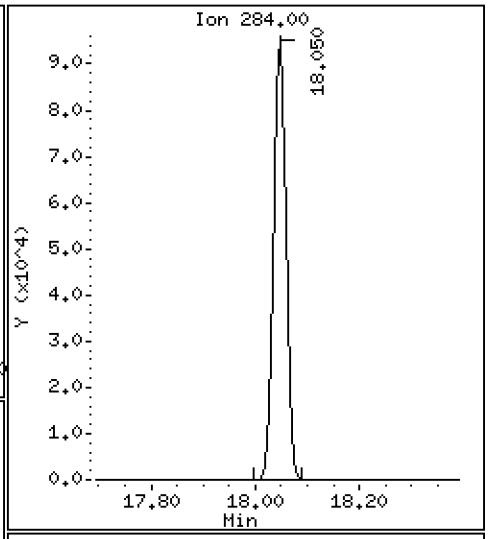
Column phase: ZB-5msi

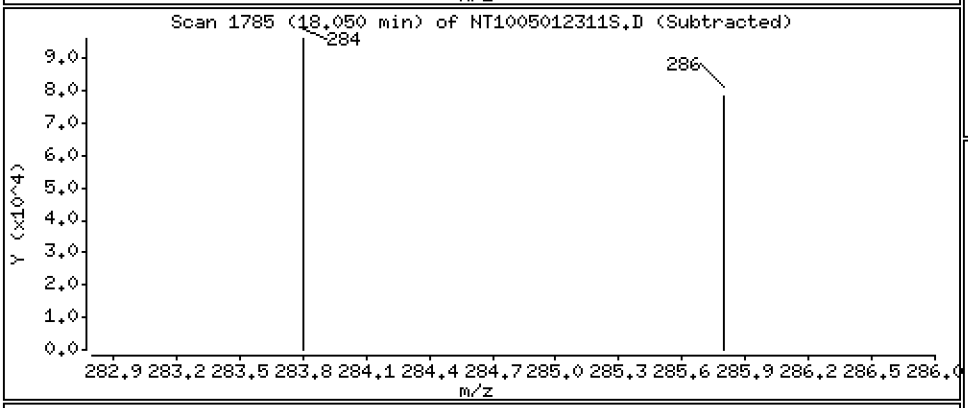
Column diameter: 0.25

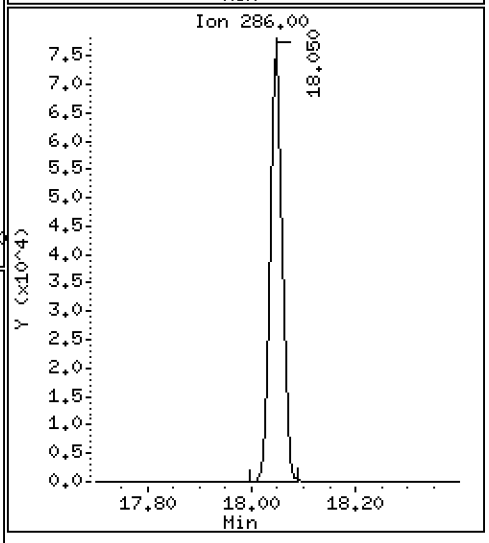
57 Hexachlorobenzene

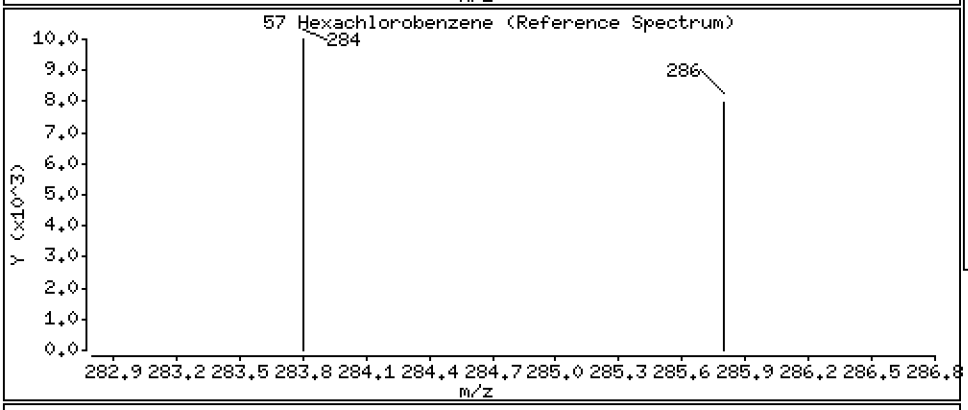
Concentration: 4.640 ug/L

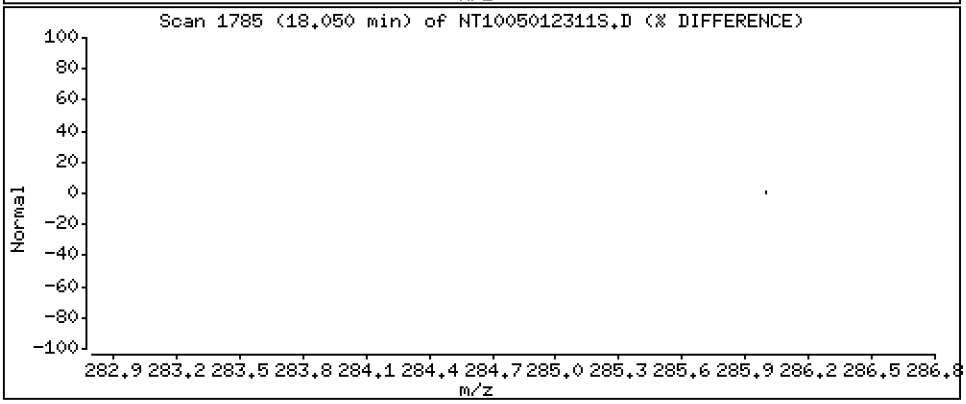












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

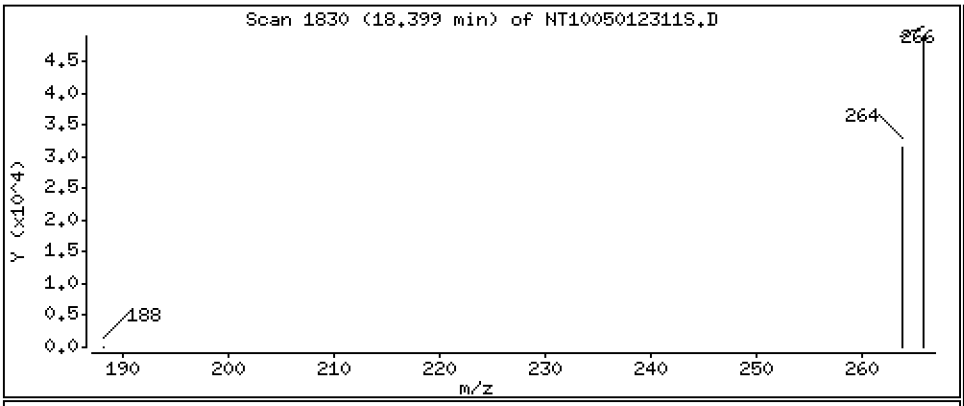
Operator: JGR

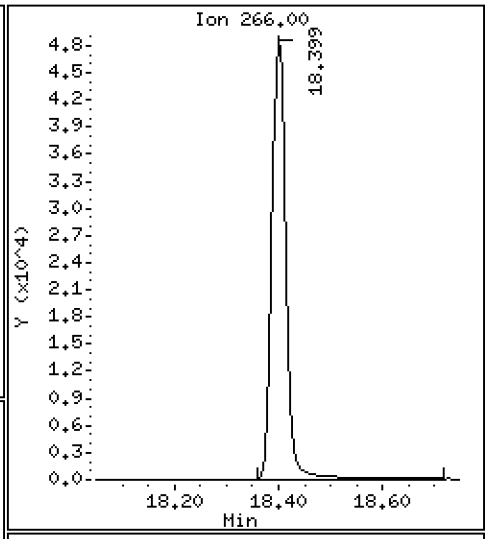
Column phase: ZB-5msi

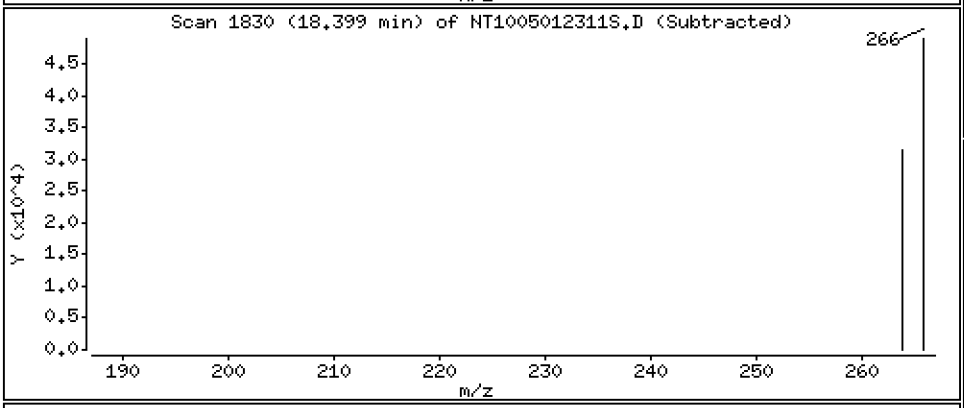
Column diameter: 0.25

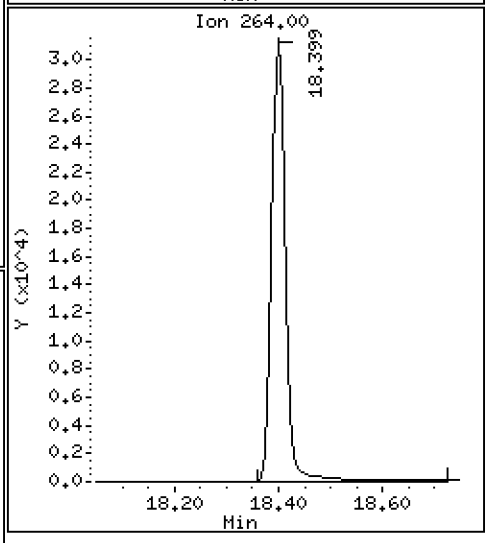
58 Pentachlorophenol

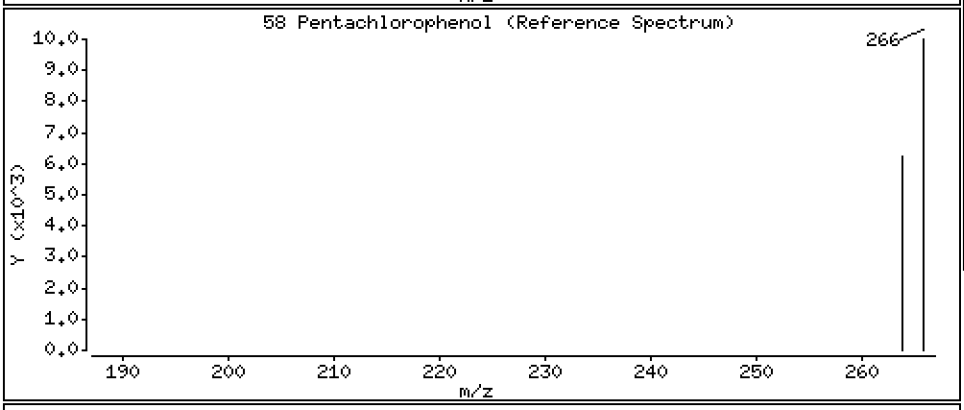
Concentration: 4.346 ug/L

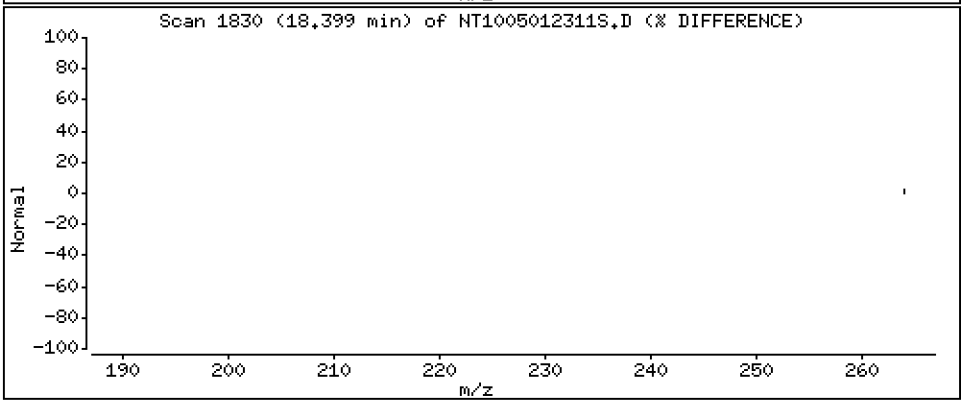












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

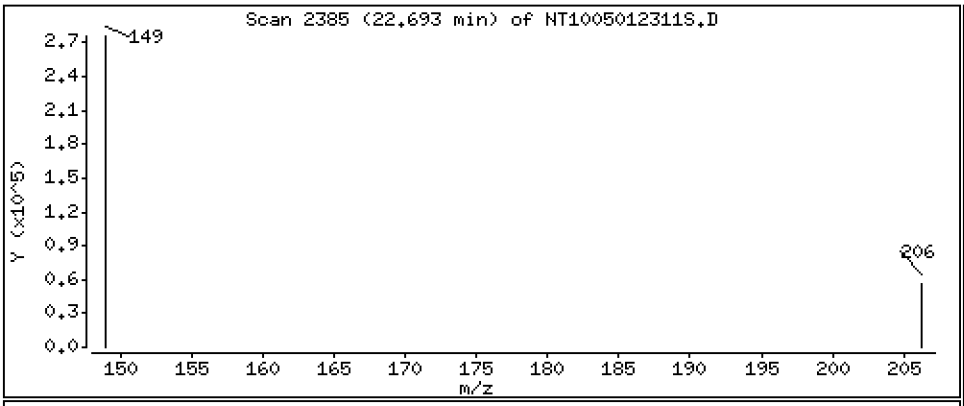
Operator: JGR

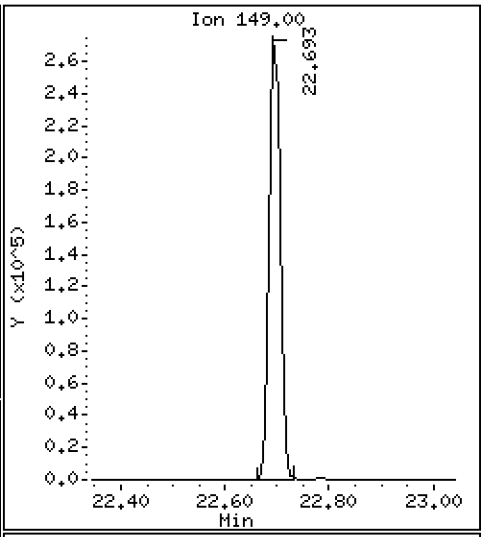
Column phase: ZB-5msi

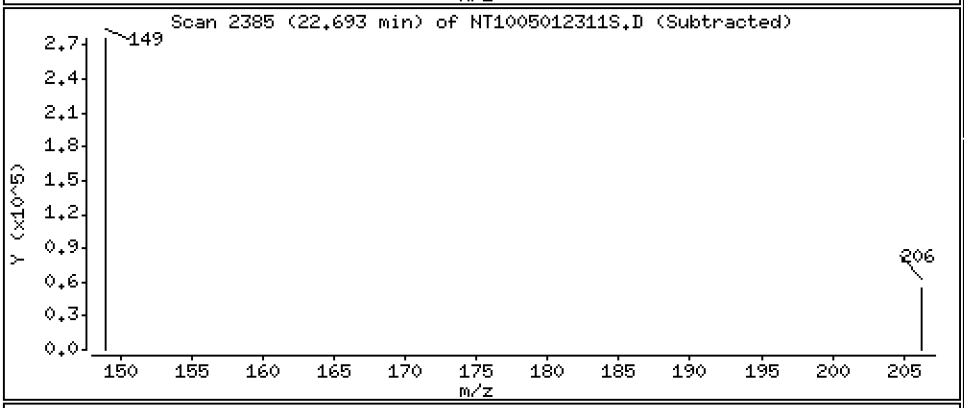
Column diameter: 0.25

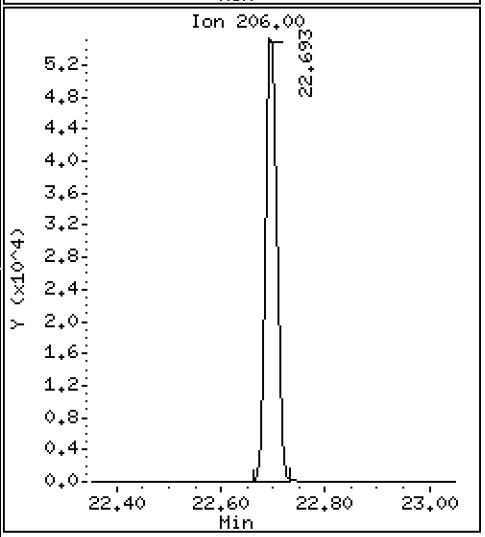
67 Butylbenzylphthalate

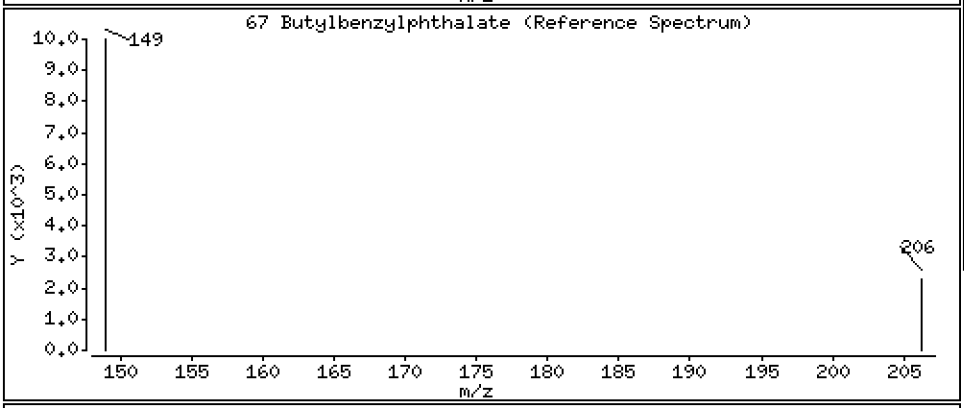
Concentration: 5.065 ug/L

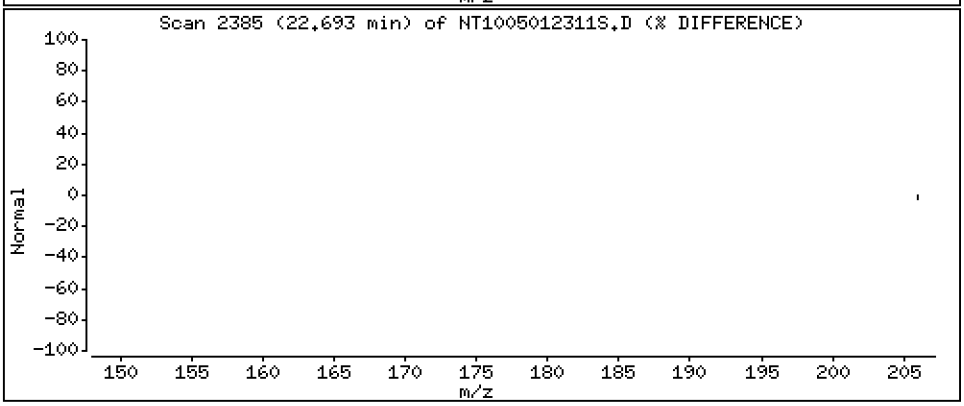












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Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

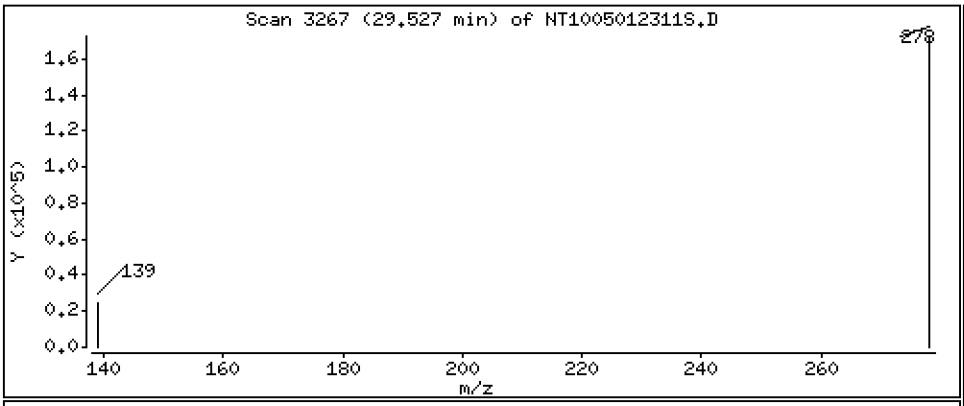
Operator: JGR

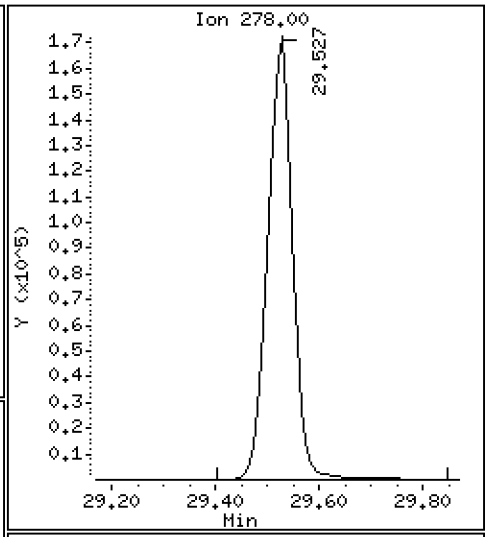
Column phase: ZB-5msi

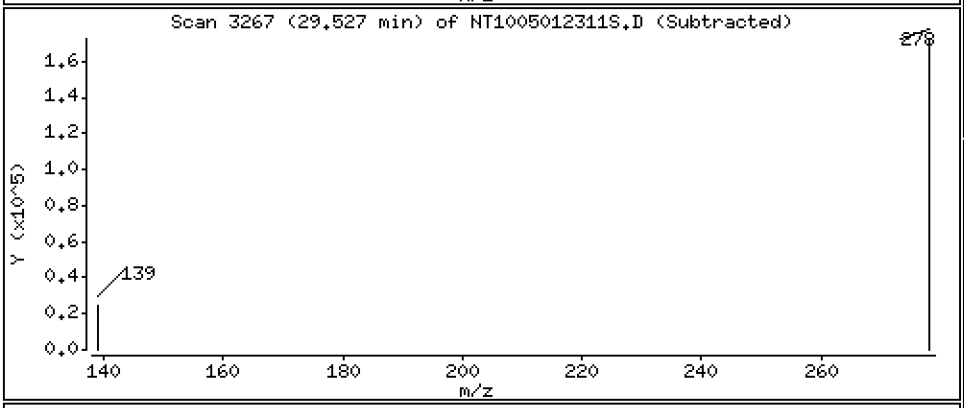
Column diameter: 0.25

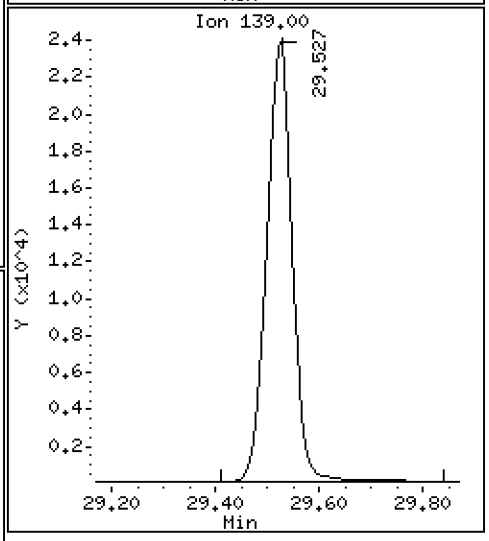
79 Dibenzo(a,h)anthracene

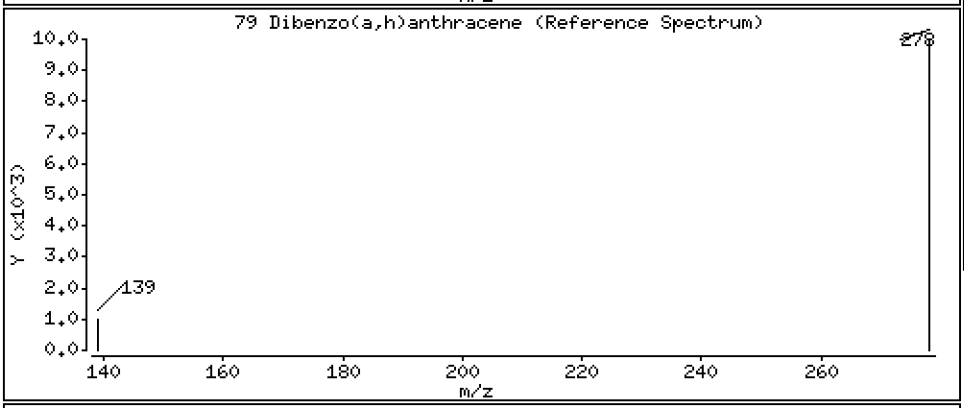
Concentration: 4.815 ug/L

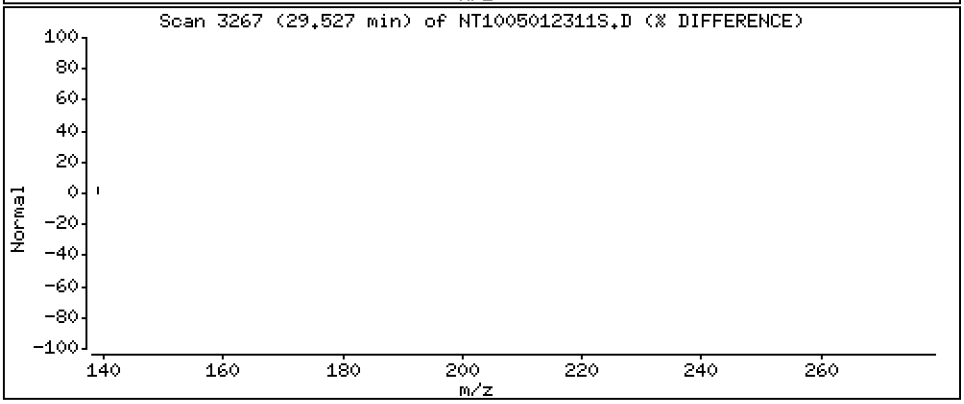












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

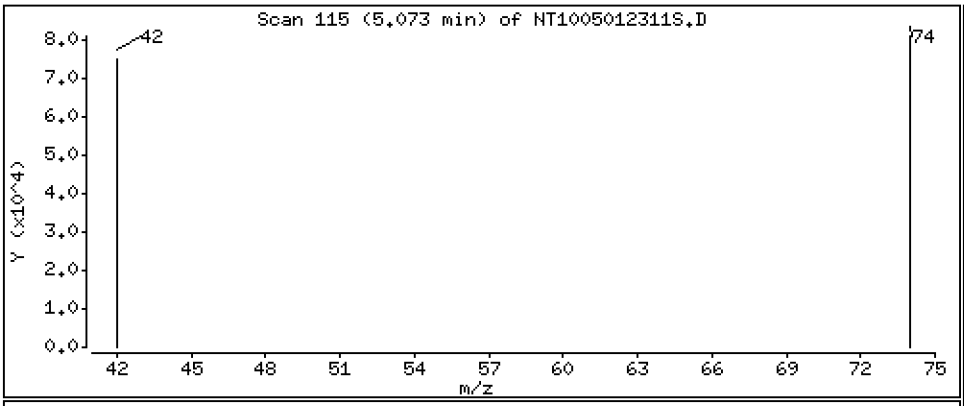
Operator: JGR

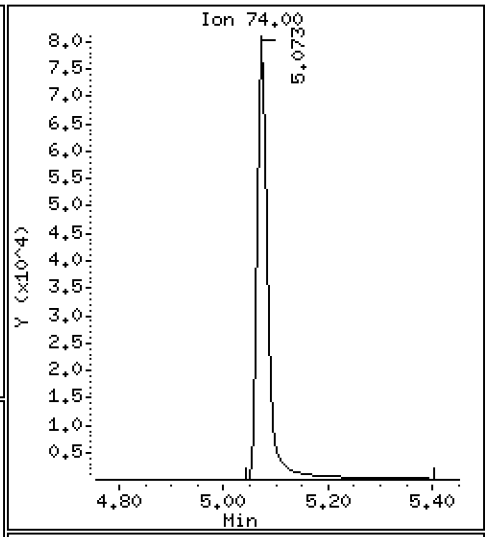
Column phase: ZB-5msi

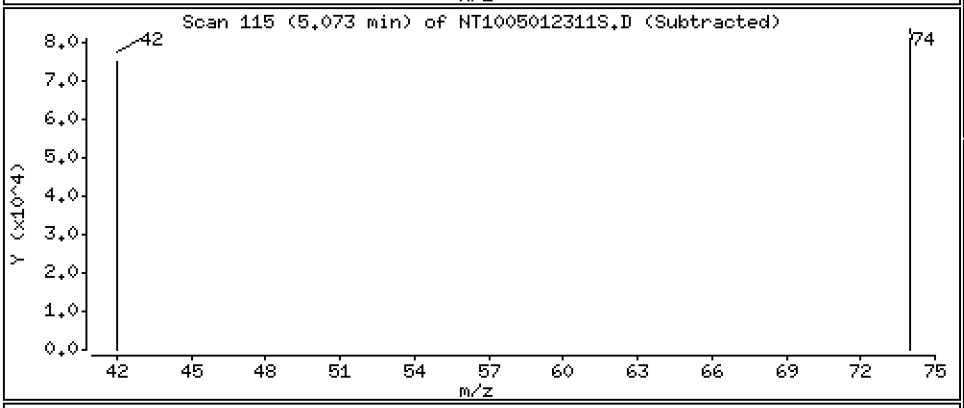
Column diameter: 0.25

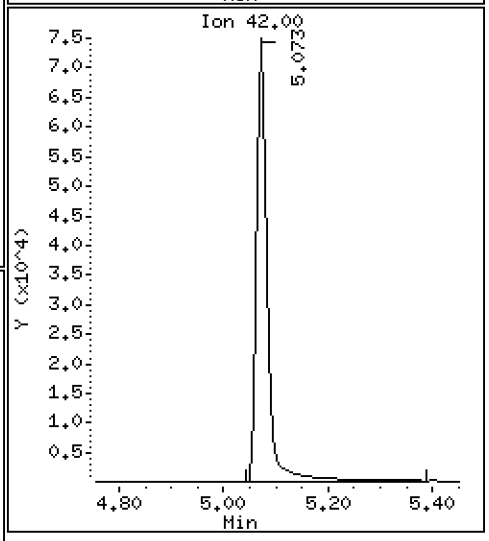
90 N-Nitrosodimethylamine

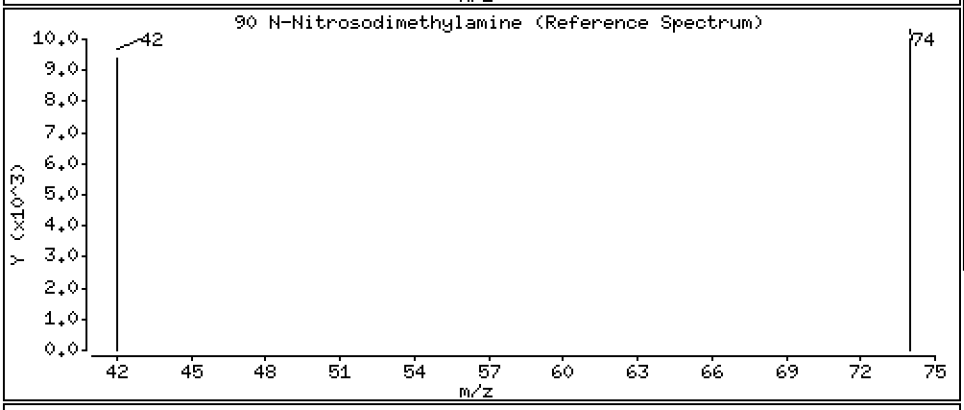
Concentration: 5.213 ug/L

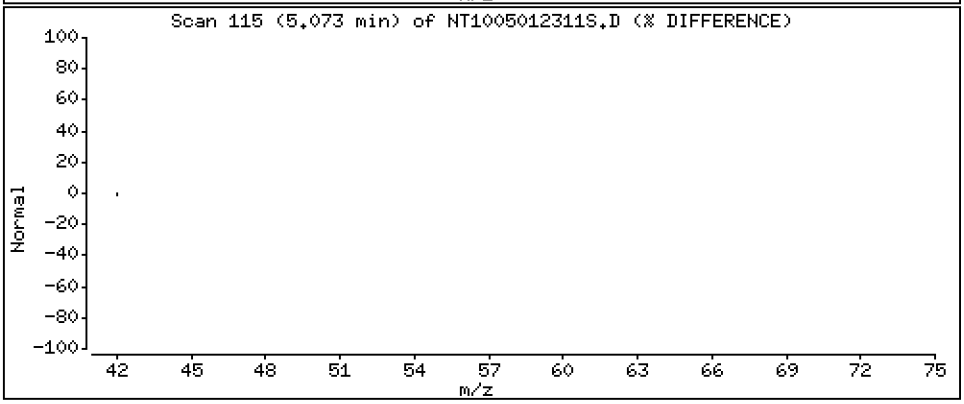












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Inj Date : 01-MAY-2023 20:43 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	1569	0.03614	0.03614(R)
3	Phenol	94	8.842	8.842	(0.932)	241257	4.43593	4.436
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	266593	4.66088	4.661
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	142531	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	271019	4.78410	4.784
11	Benzyl alcohol	79	9.748	9.756	(1.027)	198278	5.27178	5.272
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	253729	4.65664	4.657
13	2-Methylphenol	108	9.965	9.965	(1.050)	172706	4.24306	4.243
15	4-Methylphenol	108	10.237	10.237	(1.079)	191289	4.46966	4.470
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	162670	5.26784	5.268
22	2,4-Dimethylphenol	107	11.288	11.288	(0.942)	176836	3.48934	3.489(M)
24	Benzoic acid	105	11.432	11.373	(0.954)	283387	8.32169	8.322
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	224651	4.32072	4.321
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	510045	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	153764	4.63178	4.632
39	Dimethylphthalate	163	15.106	15.107	(0.967)	487893	4.87533	4.875
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	263993	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.061)	564424	5.25278	5.253
54	N-Nitrosodiphenylamine	169	16.962	16.962	(0.908)	349152	5.28852	5.289
57	Hexachlorobenzene	284	18.050	18.042	(0.966)	150021	4.64019	4.640

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.398	(0.985)	87352	4.34597	4.346
*	59 Phenanthrene-d10	188	18.677	18.677	(1.000)	506239	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	2121	0.02441	0.02441(R)
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	378823	5.06538	5.065
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	402889	4.00000	
*	77 Perylene-d12	264	26.533	26.533	(1.000)	365734	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.527	29.519	(1.113)	568400	4.81466	4.815
	90 N-Nitrosodimethylamine	74	5.072	5.103	(0.534)	123469	5.21274	5.213

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	142531	-15.75
27 Naphthalene-d8	594924	297462	1189848	510045	-14.27
42 Acenaphthene-d10	304980	152490	609960	263993	-13.44
59 Phenanthrene-d10	609190	304595	1218380	506239	-16.90
69 Chrysene-d12	479061	239531	958122	402889	-15.90
77 Perylene-d12	427162	213581	854324	365734	-14.38

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005012311S.D

Lab ID: SLE0082-SCV1
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

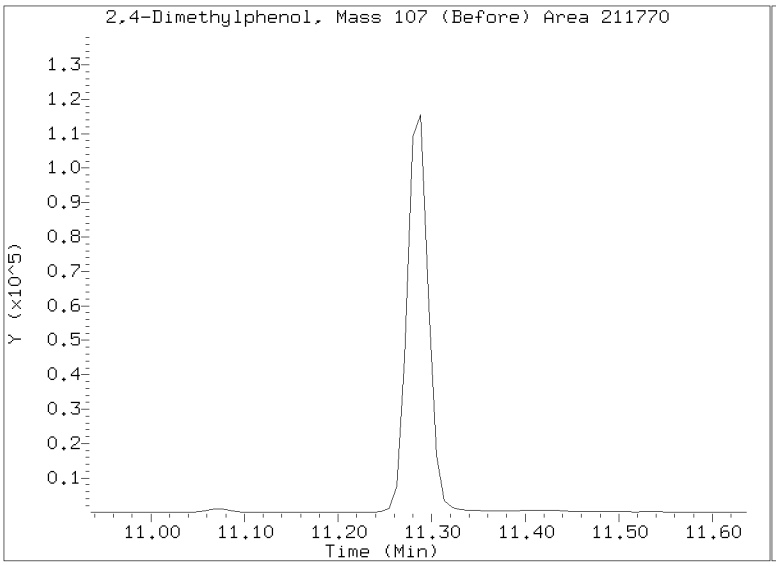
On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

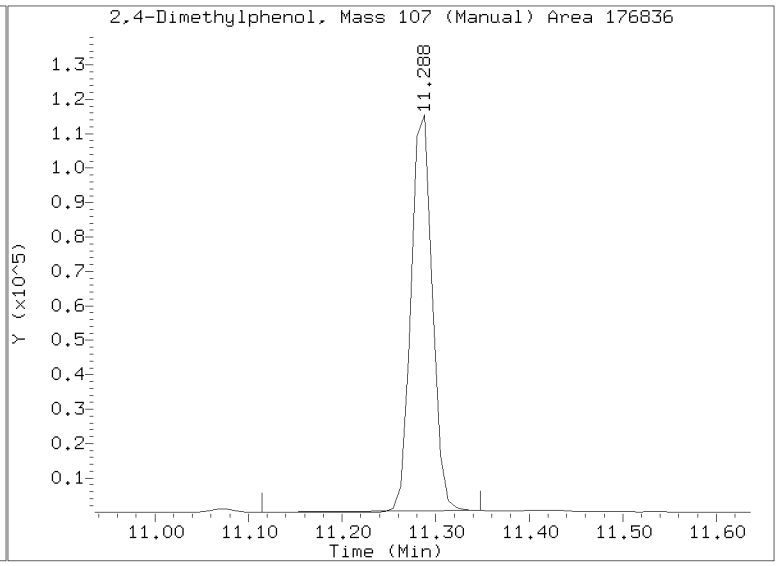
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/20230501.b/NT1005012311S.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0082-SCV1 Client ID:
Report Date: 05/10/2023 12:32





APPROVED

By Deenay Dunmore at 12:52 pm, May 10, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00018
Lab File ID:	NT1005052305S.D	Calibration Date:	05/04/2023
Sequence:	SLE0466	Injection Date:	05/05/23
Lab Sample ID:	SLE0466-ICV1	Injection Time:	13:22
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
1,4-Dichlorobenzene	A	1.0000	0.9	1.5898270	1.4637770		-7.9	+/-20	
1,2-Dichlorobenzene	A	1.0000	0.9	1.5291420	1.4110560		-7.7	+/-20	
Benzyl Alcohol	A	1.0000	0.9	1.0555230	0.9397263		-11.0	+/-20	
Benzoic acid	A	4.0000	0.5	0.1834660	0.0298723		-88.5	+/-20	*
2,4-Dimethylphenol	A	2.0000	1.9	0.3974465	0.3733019		-6.1	+/-20	
1,2,4-Trichlorobenzene	A	1.0000	0.9	0.4077591	0.3561475		-12.7	+/-20	
N-Nitrosodiphenylamine	A	1.0000	1.0	0.5216563	0.4971409		-4.7	+/-20	
Pentachlorophenol	A	2.0000	1.0	0.1295337	0.0789248		-48.8	+/-20	*
2-Fluorophenol	A	1.5000	1.36	1.2184940	1.1069800		-9.1	+/-20	
p-Terphenyl-d14	A	1.0000	0.850	0.8625046	0.7330912		-15.0	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	40570.8800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	142144.2000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	71963.6600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	144403.7000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	112001.6000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	99161.0300	1.0000		0.0		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523058.D

Date : 05-MAY-2023 13:22

Client ID:

Instrument: nt10.i

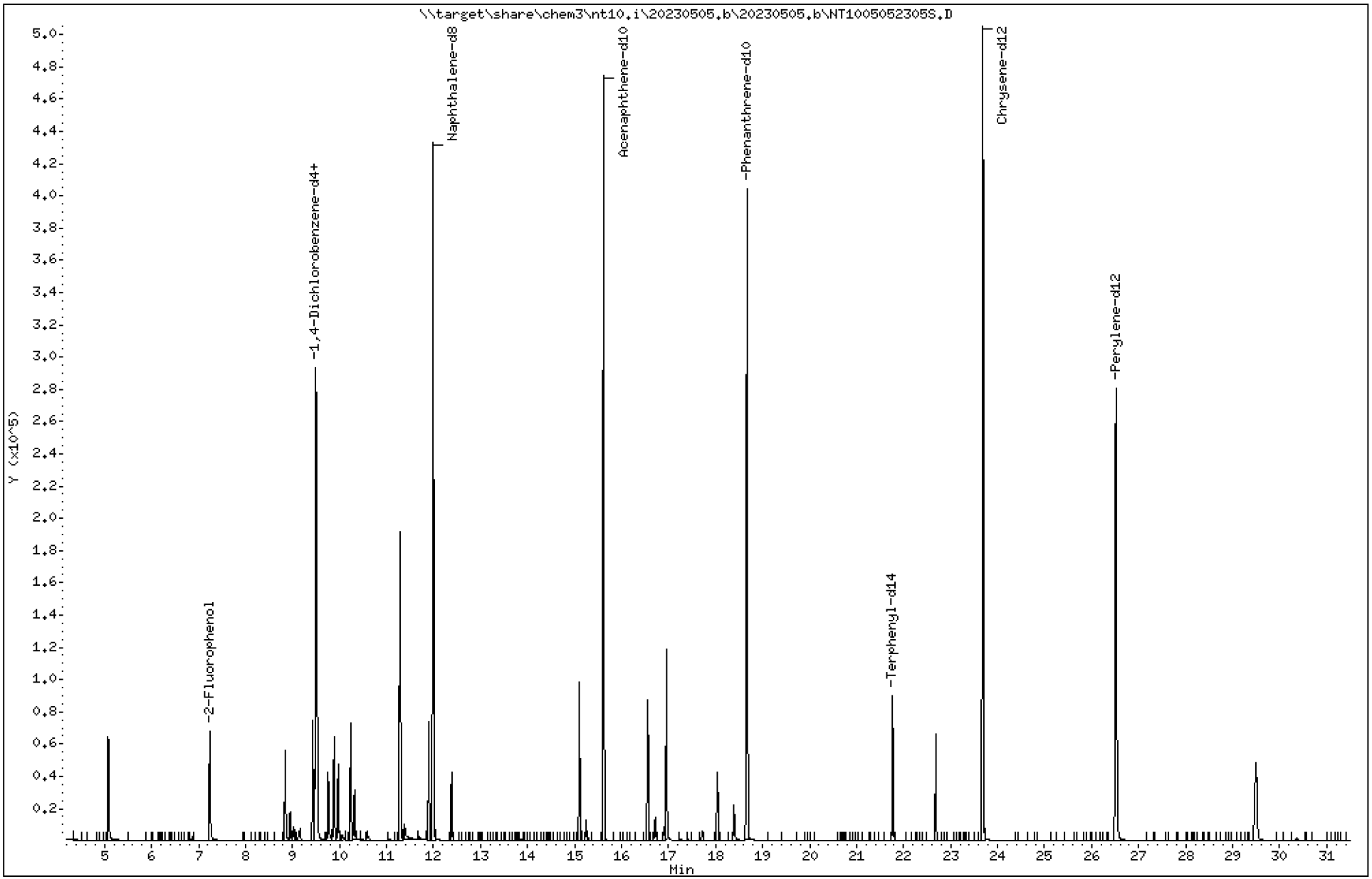
Sample Info: SLE0466-ICV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1886 of 4865

ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052305S.D
Lab Smp Id: SLE0466-ICV1
Inj Date : 05-MAY-2023 13:22 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLE0466-ICV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 4 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.243	7.243	(0.763)	75842	1.50000	1.363
	3 Phenol	94	8.842	8.842	(0.932)	67137	1.00000	0.9630
	7 1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	67056	1.00000	0.9146
*	8 1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	182700	4.00000	
	9 1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	66858	1.00000	0.9207
	11 Benzyl alcohol	79	9.756	9.756	(1.028)	42922	1.00000	0.8903
	12 1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	64450	1.00000	0.9228
	13 2-Methylphenol	108	9.965	9.965	(1.050)	49141	1.00000	0.9419
	15 4-Methylphenol	108	10.237	10.237	(1.079)	52276	1.00000	0.9529
	16 N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	36287	1.00000	0.9167
	22 2,4-Dimethylphenol	107	11.288	11.288	(0.942)	123604	2.00000	1.879(M)
	24 Benzoic acid	105	11.381	11.381	(0.949)	19782	4.00000	0.4620
	26 1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	58962	1.00000	0.8734
*	27 Naphthalene-d8	136	11.988	11.988	(1.000)	662220	4.00000	
	30 Hexachlorobutadiene	225	12.382	12.382	(1.033)	37796	1.00000	0.8769
	39 Dimethylphthalate	163	15.099	15.099	(0.967)	114290	1.00000	0.8985
*	42 Acenaphthene-d10	162	15.617	15.617	(1.000)	335558	4.00000	
	50 Diethylphthalate	149	16.560	16.560	(1.060)	125202	1.00000	0.9167
	54 N-Nitrosodiphenylamine	169	16.954	16.954	(0.908)	84289	1.00000	0.9530
	57 Hexachlorobenzene	284	18.034	18.034	(0.966)	38162	1.00000	0.8811

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.390	18.390	(0.985)	26763	2.00000	1.024
*	59 Phenanthrene-d10	188	18.669	18.669	(1.000)	678190	4.00000	
$	66 Terphenyl-d14	244	21.771	21.771	(0.919)	103910	1.00000	0.8500
	67 Butylbenzylphthalate	149	22.685	22.685	(0.958)	67378	1.00000	0.6720
*	69 Chrysene-d12	240	23.684	23.684	(1.000)	566969	4.00000	
*	77 Perylene-d12	264	26.517	26.517	(1.000)	522906	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.496	29.496	(1.112)	149146	1.00000	0.8836
	90 N-Nitrosodimethylamine	74	5.080	5.080	(0.535)	57893	2.00000	1.907

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052305S.D
Lab Smp Id: SLE0466-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	182700	8.00
27 Naphthalene-d8	594924	297462	1189848	662220	11.31
42 Acenaphthene-d10	304980	152490	609960	335558	10.03
59 Phenanthrene-d10	609190	304595	1218380	678190	11.33
69 Chrysene-d12	479061	239531	958122	566969	18.35
77 Perylene-d12	427162	213581	854324	522906	22.41

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.67	-0.04
69 Chrysene-d12	23.70	23.20	24.20	23.68	-0.06
77 Perylene-d12	26.54	26.04	27.04	26.52	-0.09

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

REVIEW SUMMARY FOR FILE - NT1005052305S.D

Lab ID: SLE0466-ICV1
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 13:22

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

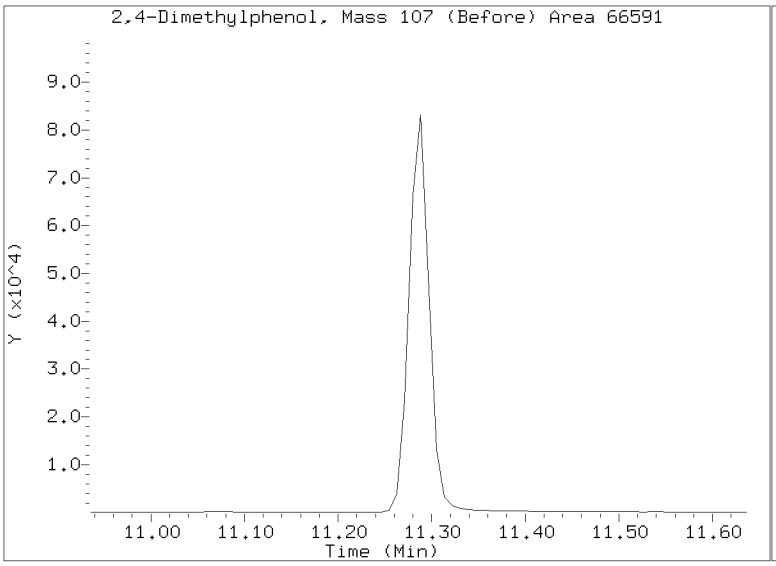
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

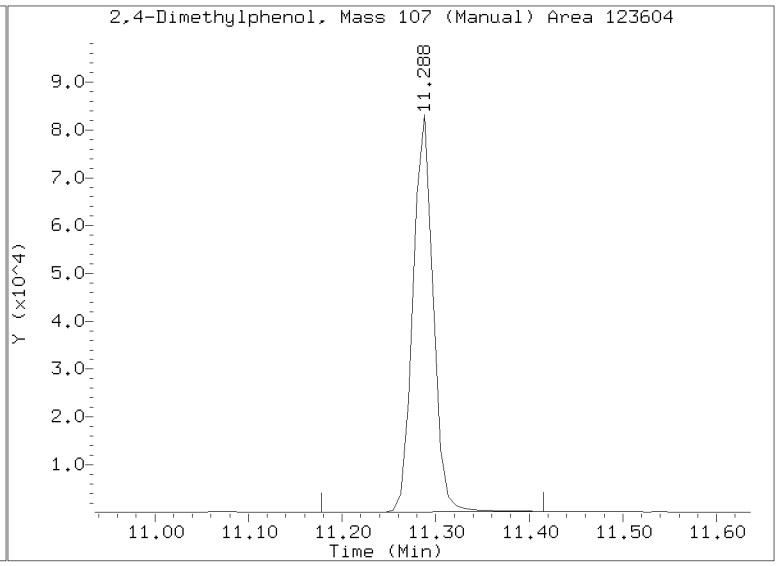
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052305S.D
Injection Date: 05-MAY-2023 13:22
Lab ID:SLE0466-ICV1 Client ID:
Report Date: 05/31/2023 14:30





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230505.b\20230505.b

Instrument: nt10.i Date: 05-MAY-2023 Method: 20230505.b\SIMABN2.m

INITIAL CAL: 01-MAY-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1005052305S.D 05-MAY-2023 13:22

Compound	%D
Benzoic acid	-88.5
Pentachlorophenol	-48.8
Butylbenzylphthalate	-32.8

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00018
Lab File ID:	NT1005012311S.D	Calibration Date:	05/04/2023
Sequence:	SLE0082	Injection Date:	05/01/23
Lab Sample ID:	SLE0082-SCV1	Injection Time:	20:43
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
1,4-Dichlorobenzene	A	5.0000	4.8	1.5898270	1.5211790		-4.3	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.7	1.5291420	1.4241340		-6.9	+/-20	
Benzyl Alcohol	A	5.0000	5.3	1.0555230	1.1128980		5.4	+/-20	
Benzoic acid	A	10.000	8.3	0.1834660	0.2222447		-16.8	+/-20	
2,4-Dimethylphenol	A	5.0000	3.5	0.3974465	0.2773653		-30.2	+/-20	*
1,2,4-Trichlorobenzene	A	5.0000	4.3	0.4077591	0.3523626		-13.6	+/-20	
N-Nitrosodiphenylamine	A	5.0000	5.3	0.5216563	0.5517584		5.8	+/-20	
Pentachlorophenol	A	5.0000	4.3	0.1295337	0.1380407		-13.1	+/-20	
2-Fluorophenol	A	7.5000	0.0361	1.2184940	0.0058710		-99.5		
p-Terphenyl-d14	A	5.0000	0.0244	0.8625046	0.0042116		-99.5		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

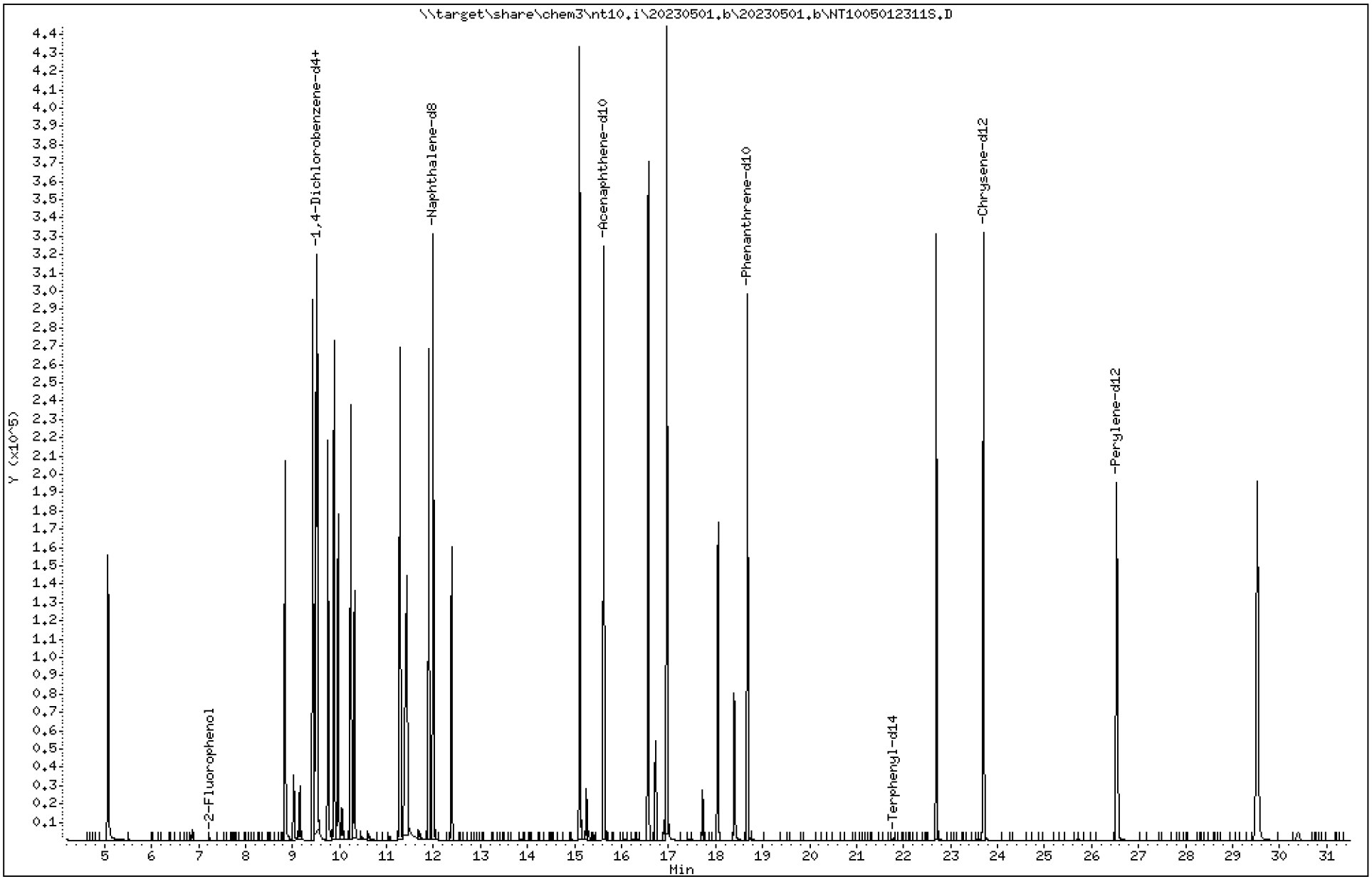
Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1894 of 4865

Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

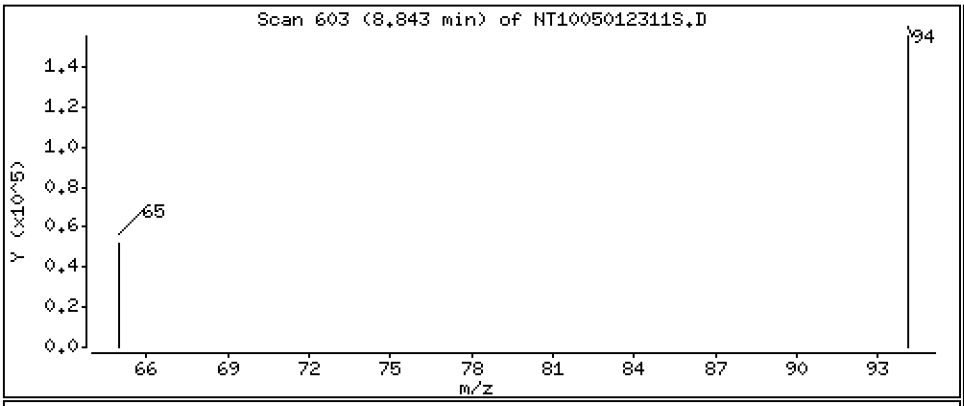
Operator: JGR

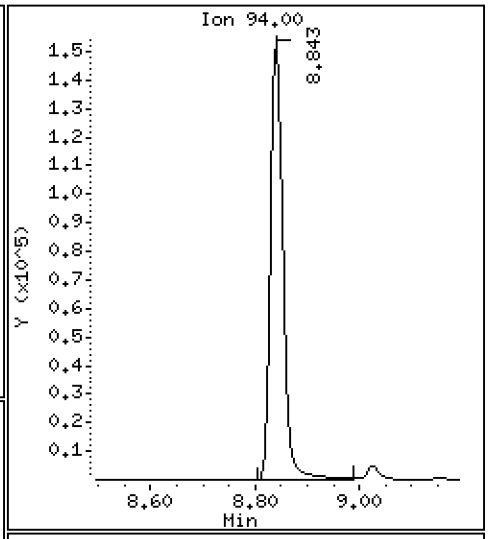
Column phase: ZB-5msi

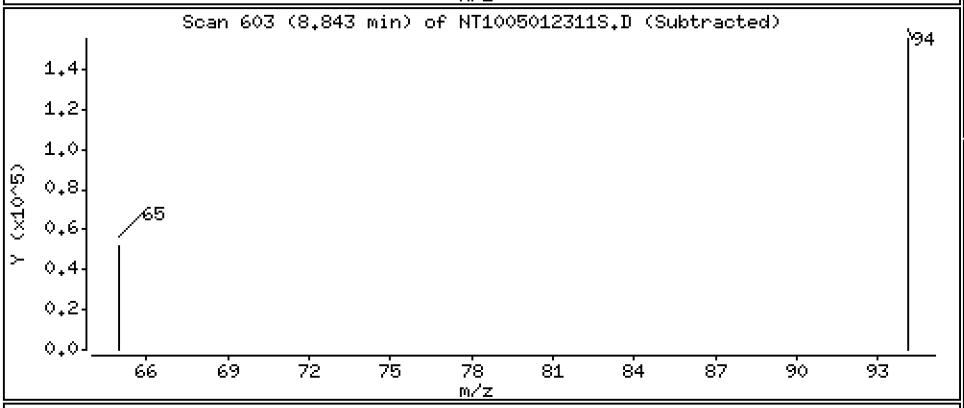
Column diameter: 0.25

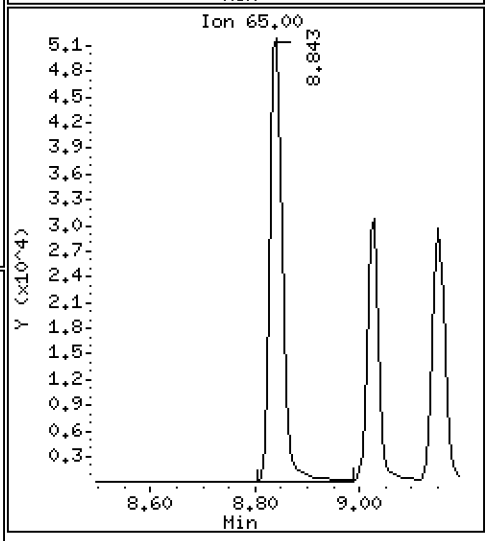
3 Phenol

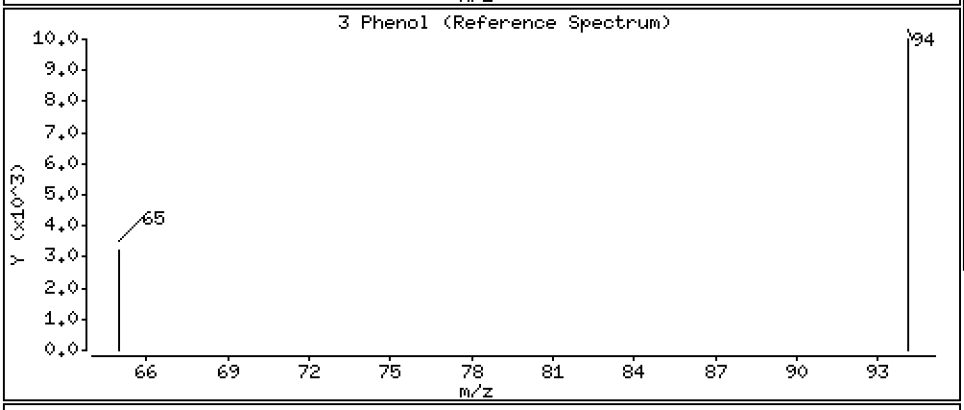
Concentration: 4.436 ug/L

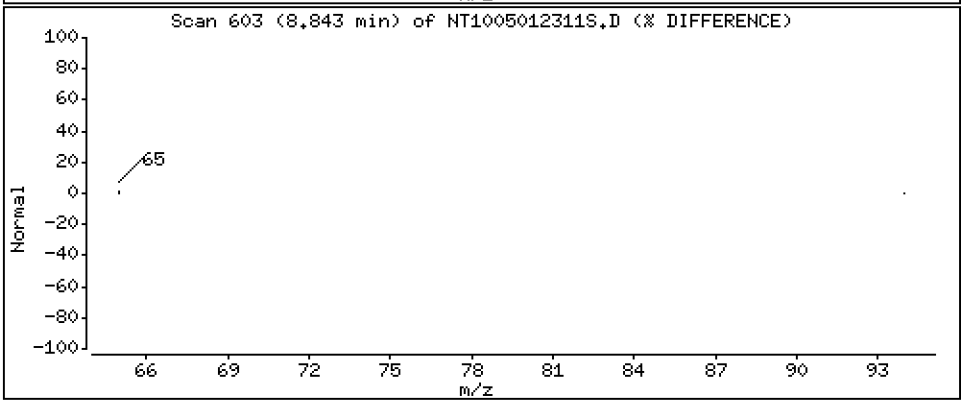












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

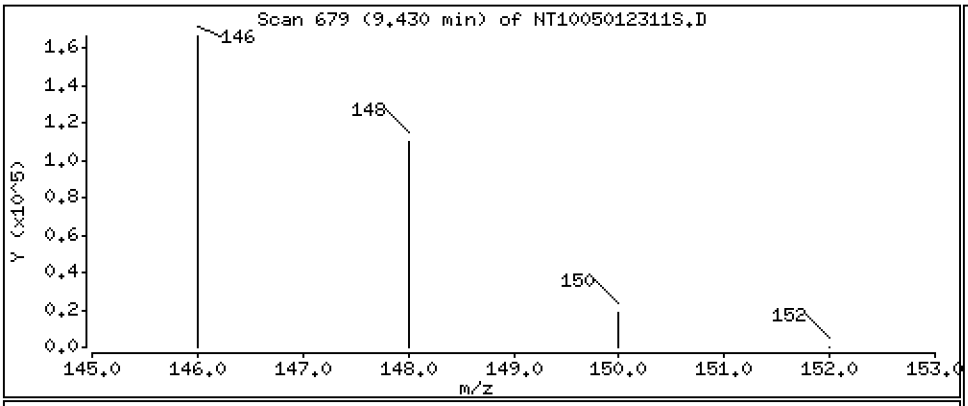
Operator: JGR

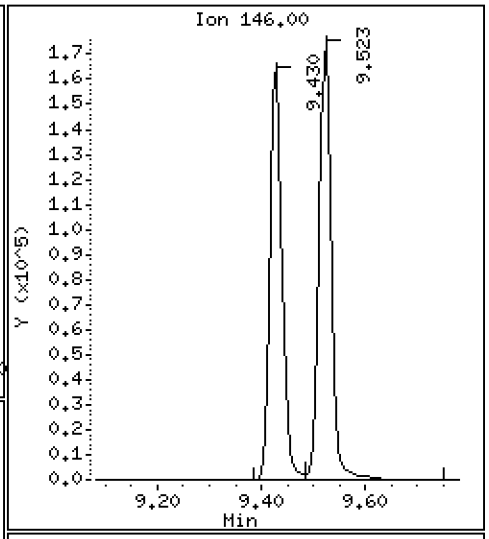
Column phase: ZB-5msi

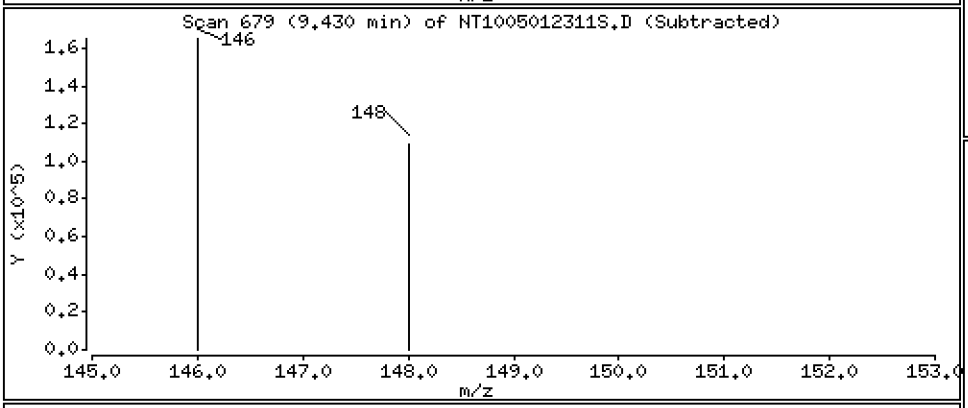
Column diameter: 0.25

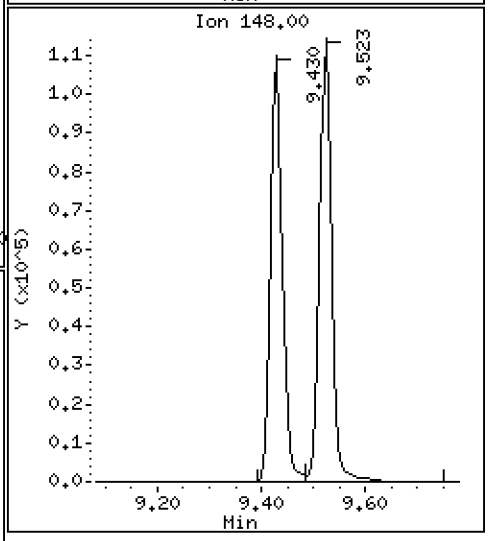
7 1,3-Dichlorobenzene

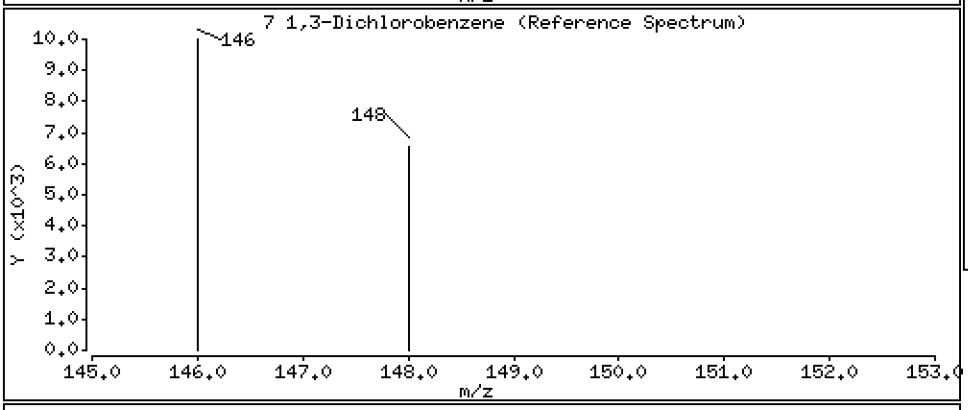
Concentration: 4.661 ug/L

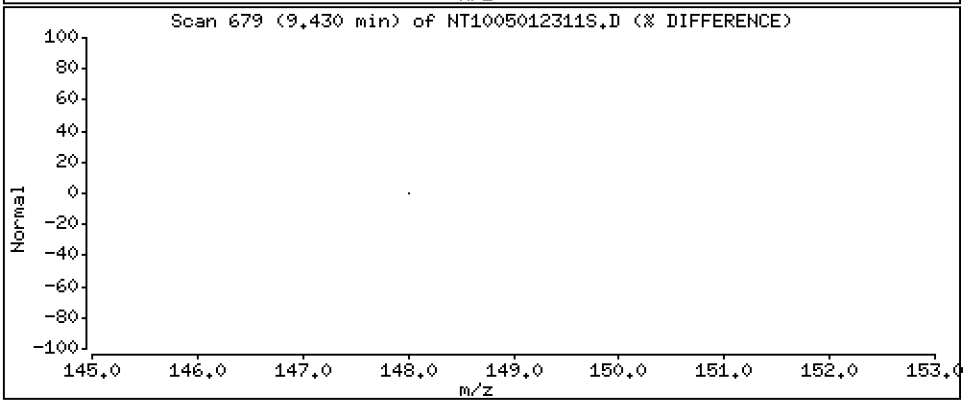












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

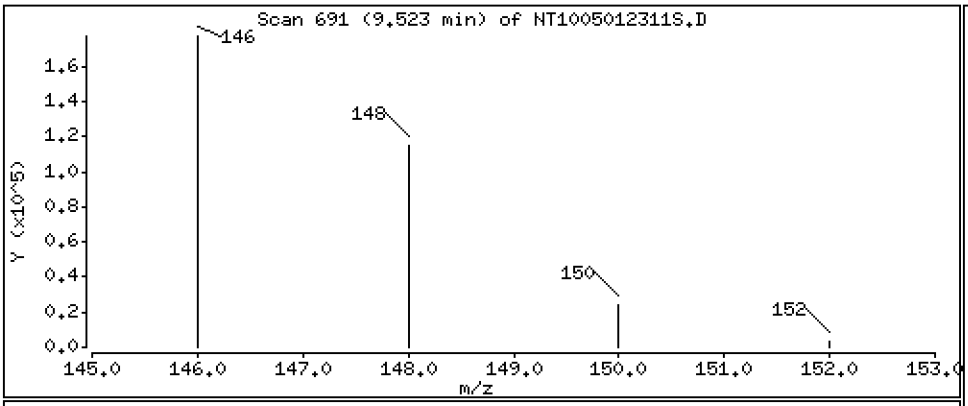
Operator: JGR

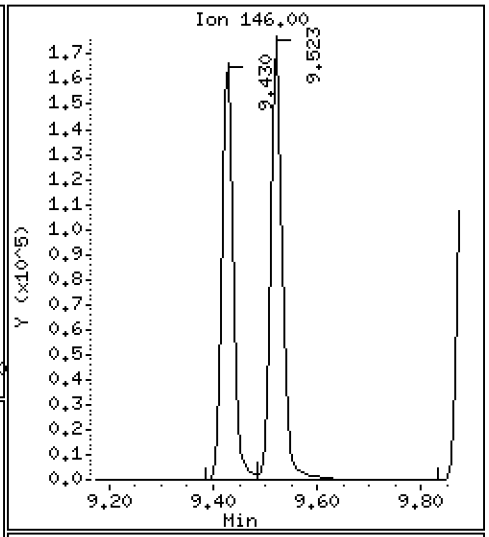
Column phase: ZB-5msi

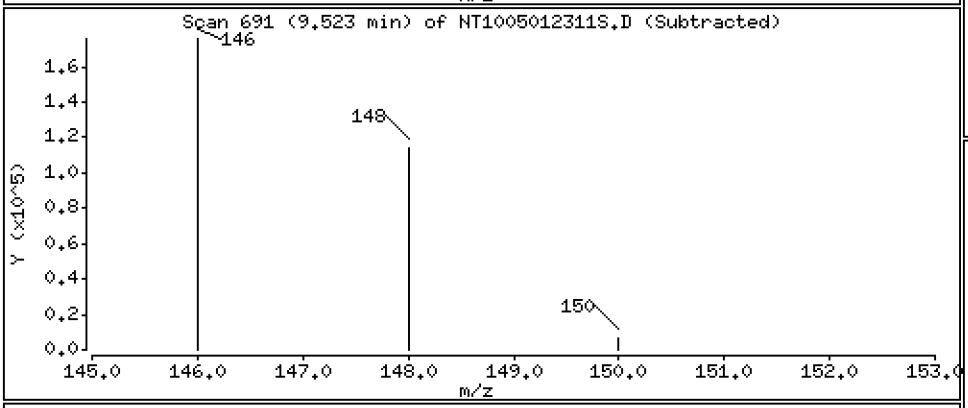
Column diameter: 0.25

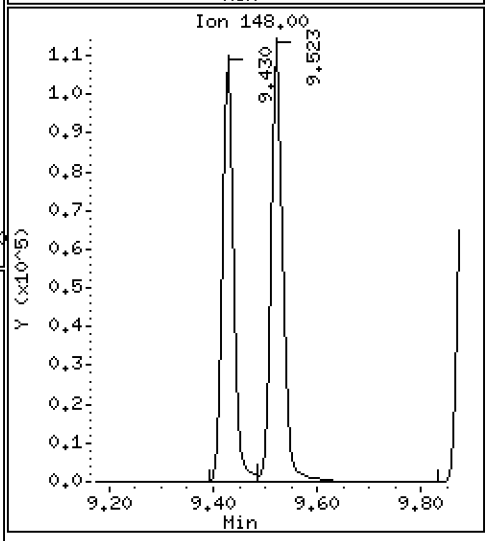
9 1,4-Dichlorobenzene

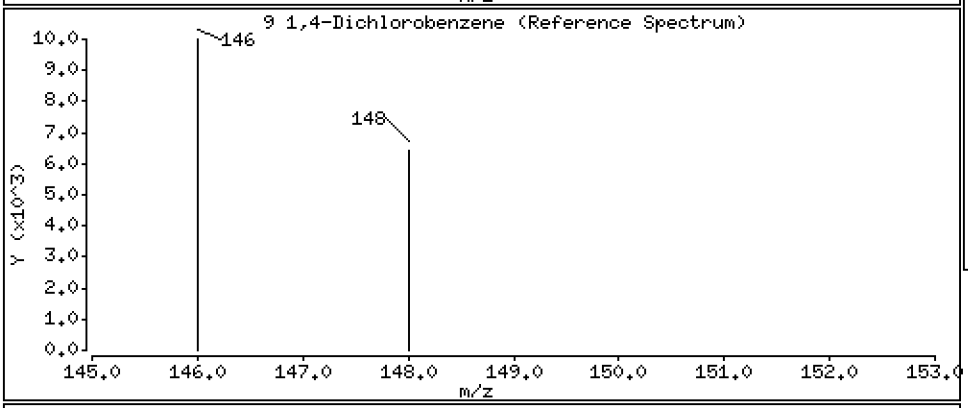
Concentration: 4.784 ug/L

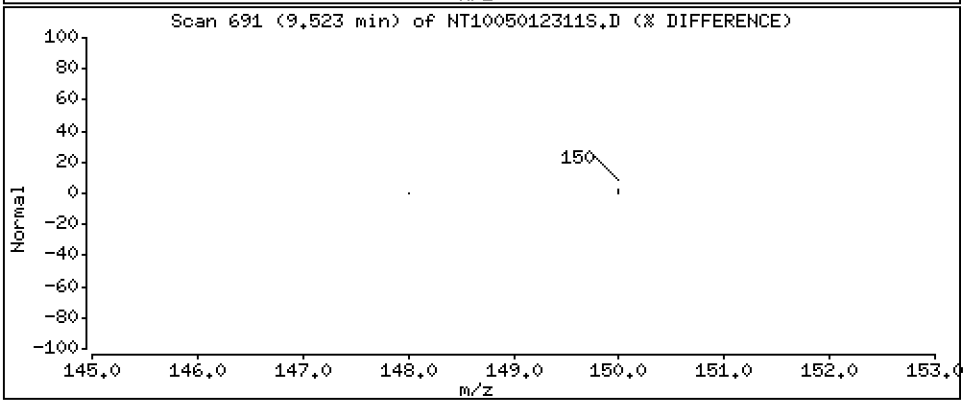












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

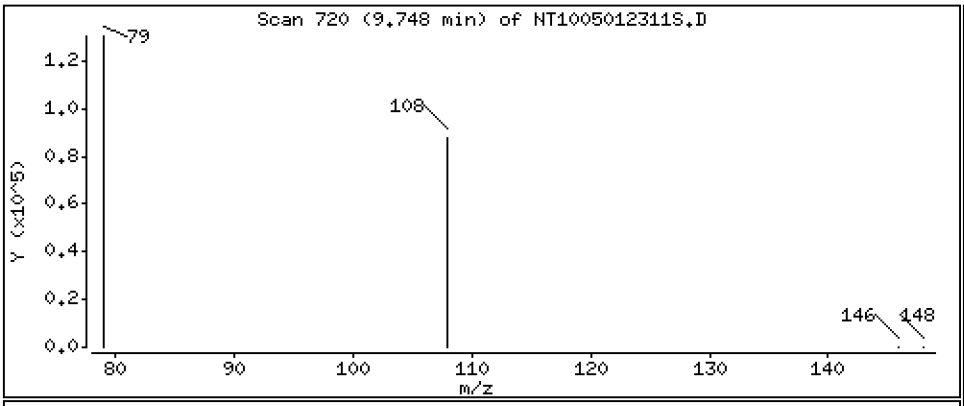
Operator: JGR

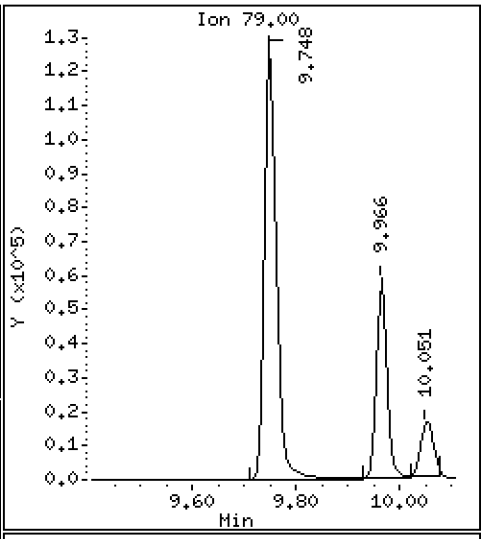
Column phase: ZB-5msi

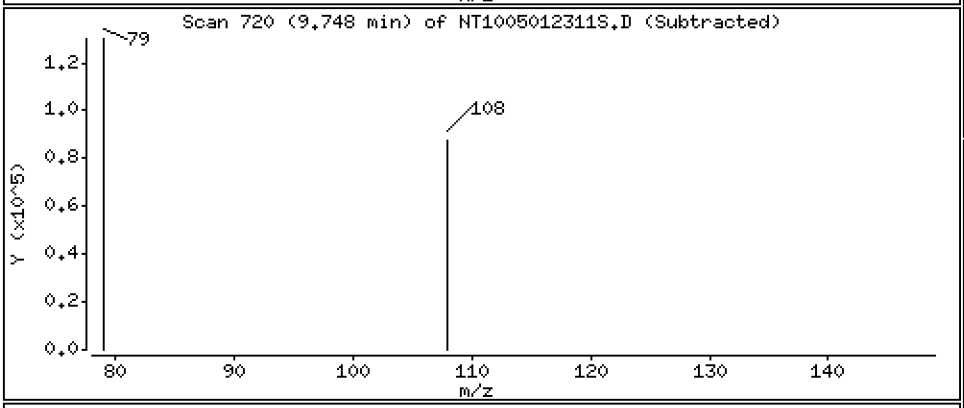
Column diameter: 0.25

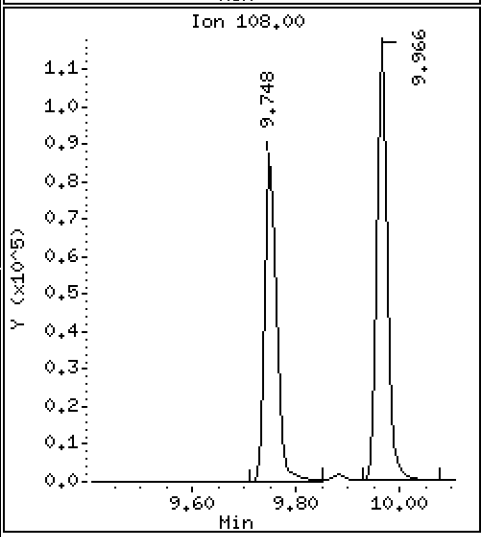
11 Benzyl alcohol

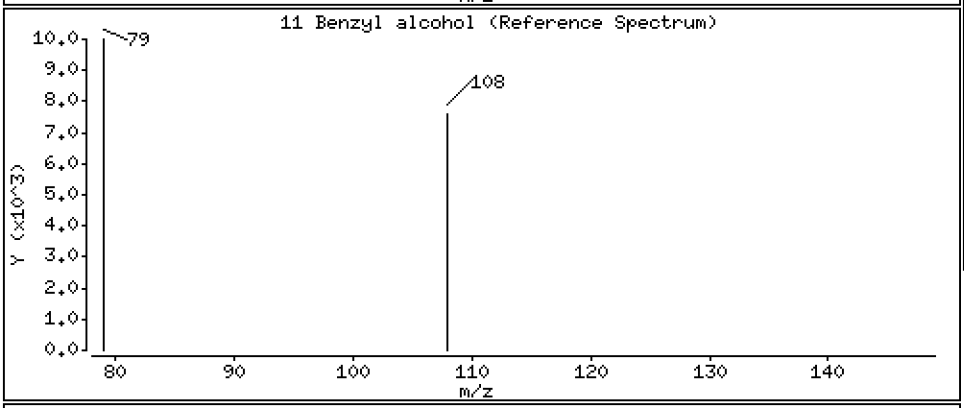
Concentration: 5.272 ug/L

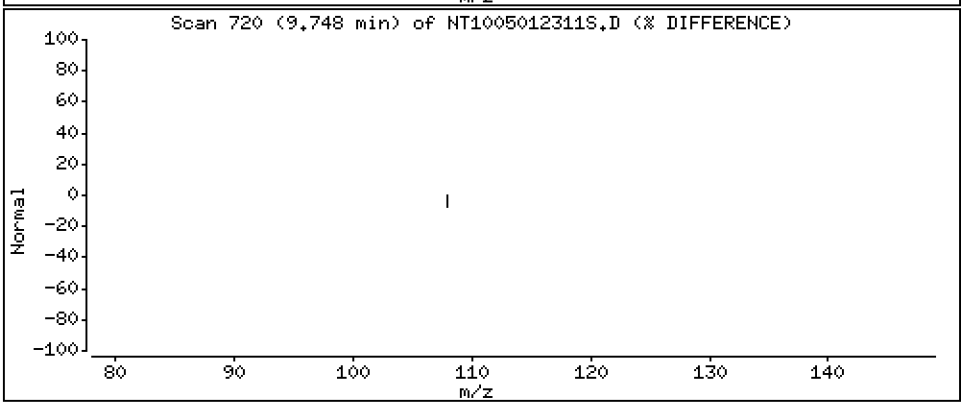












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

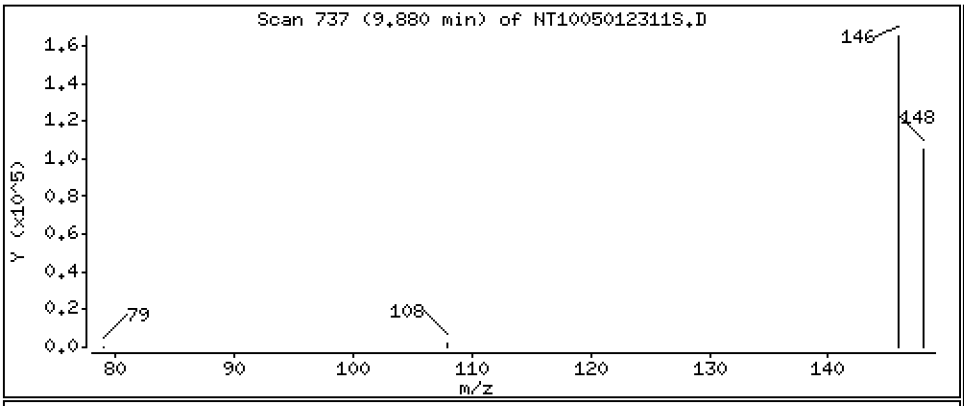
Operator: JGR

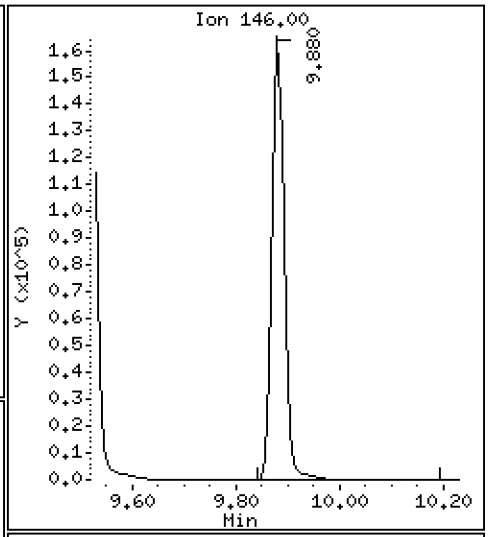
Column phase: ZB-5msi

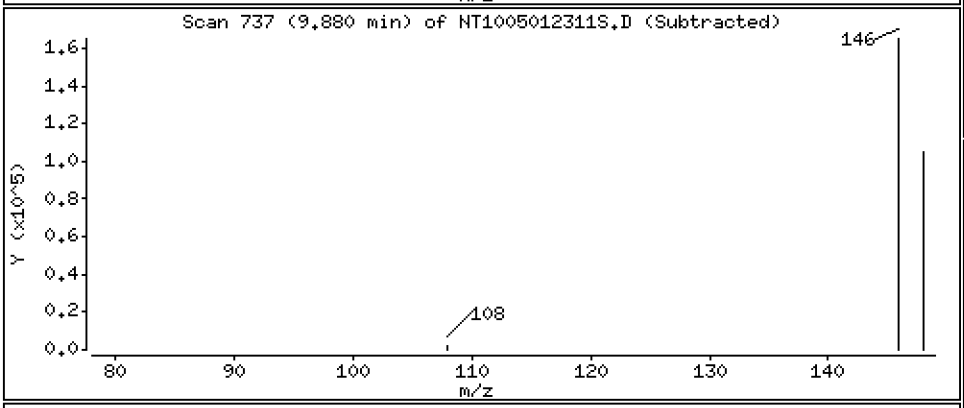
Column diameter: 0.25

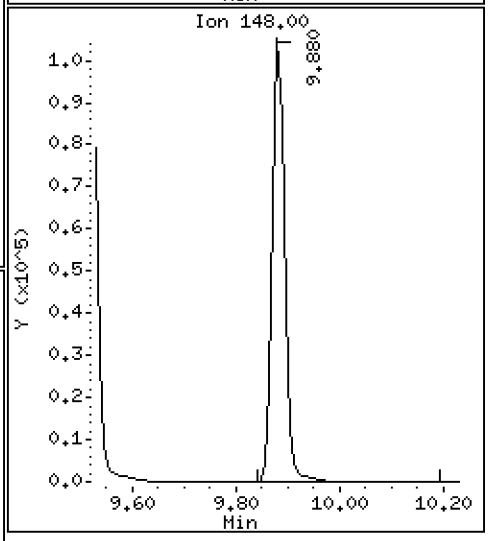
12 1,2-Dichlorobenzene

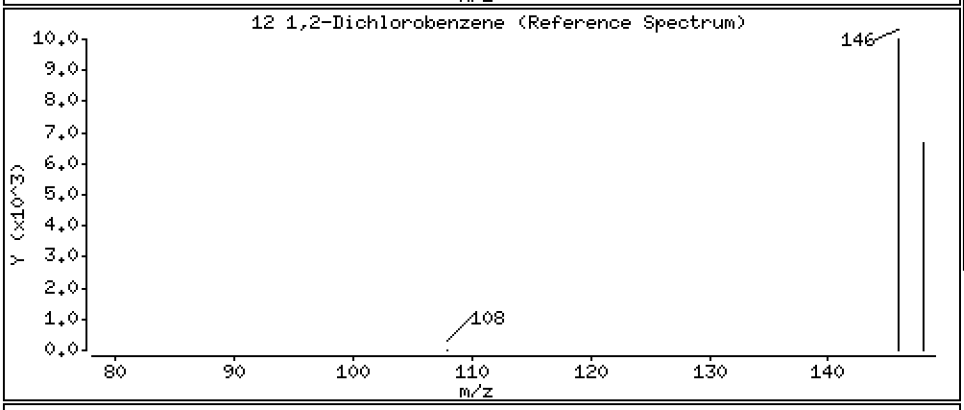
Concentration: 4.657 ug/L

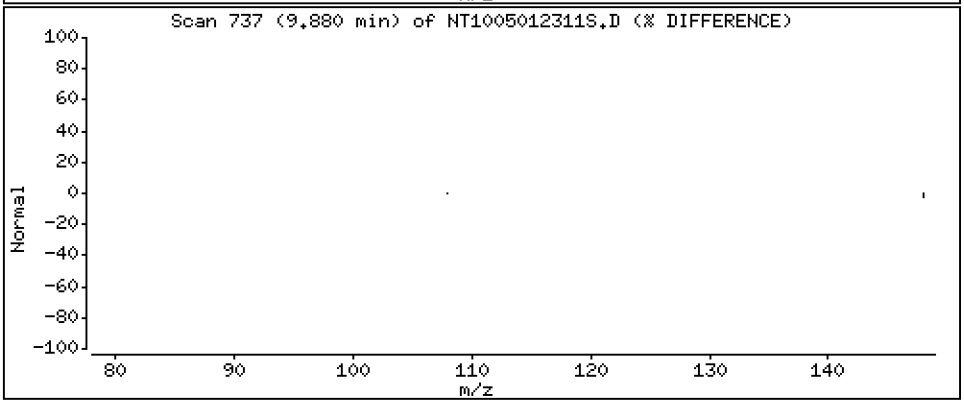












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

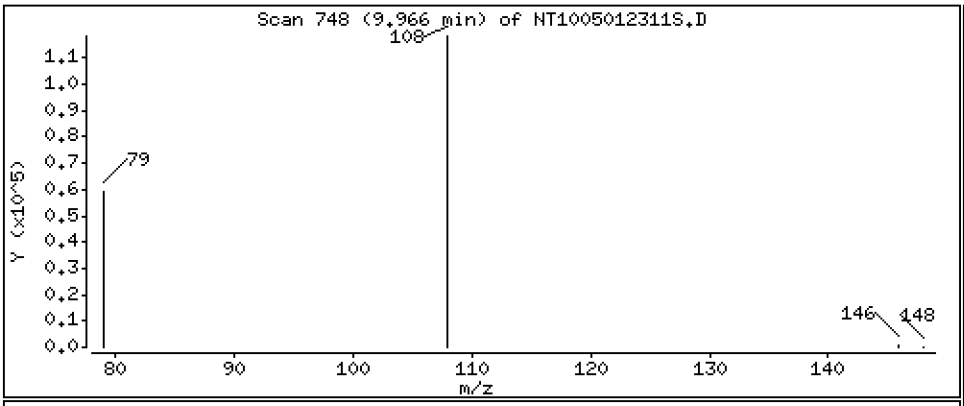
Operator: JGR

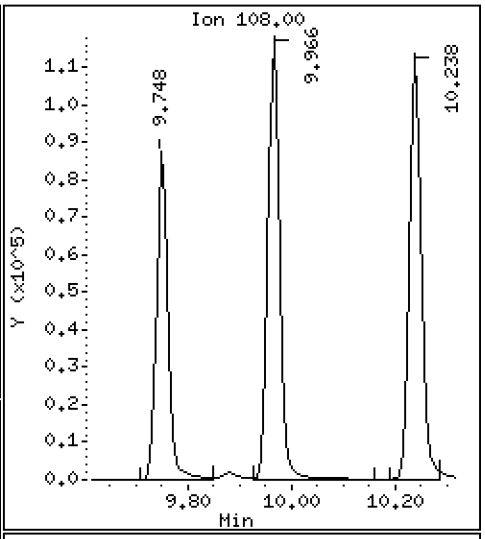
Column phase: ZB-5msi

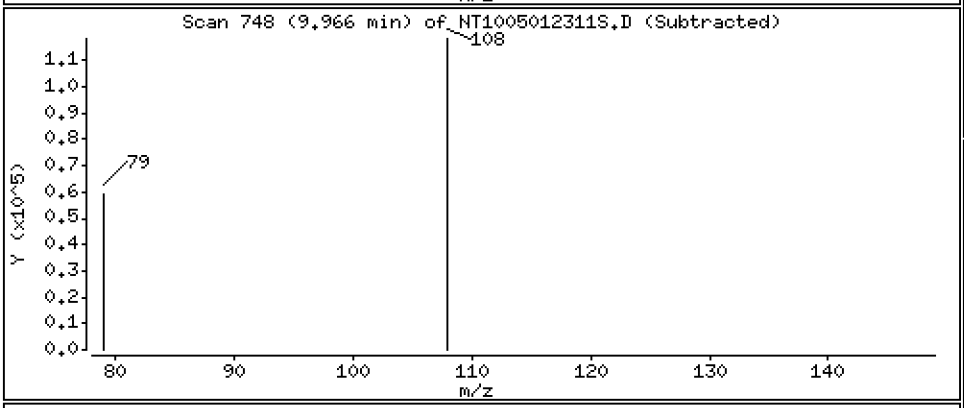
Column diameter: 0.25

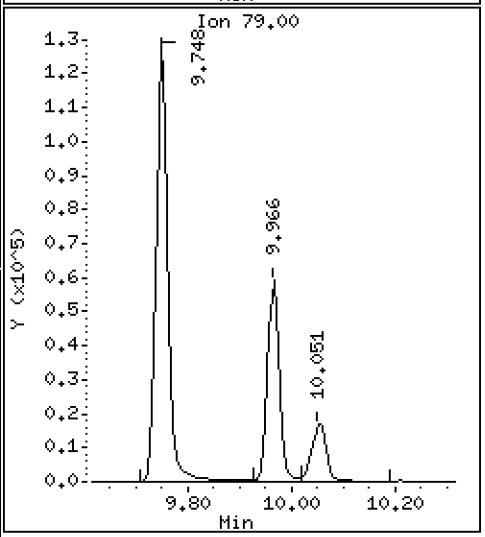
13 2-Methylphenol

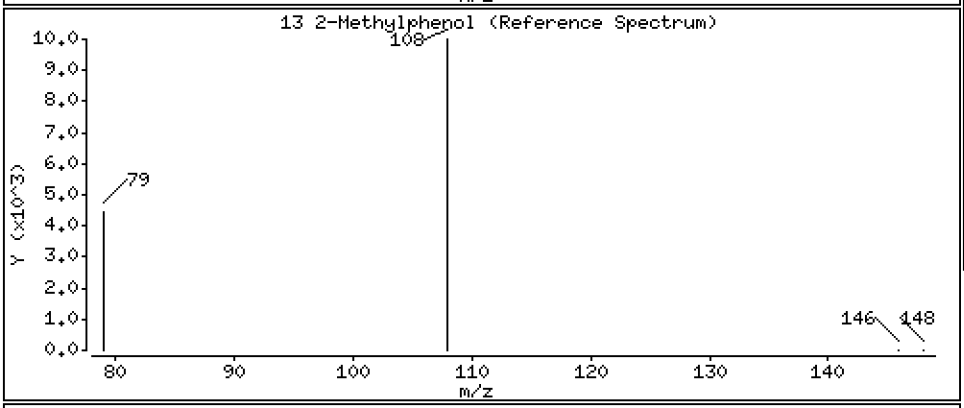
Concentration: 4.243 ug/L

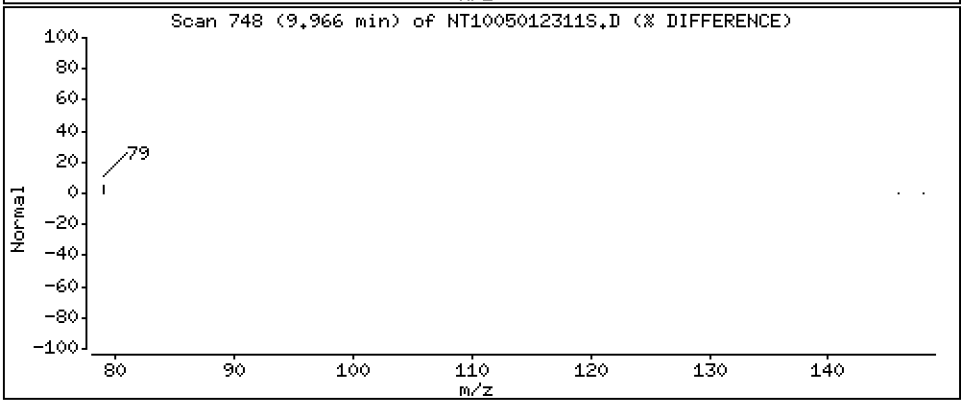












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

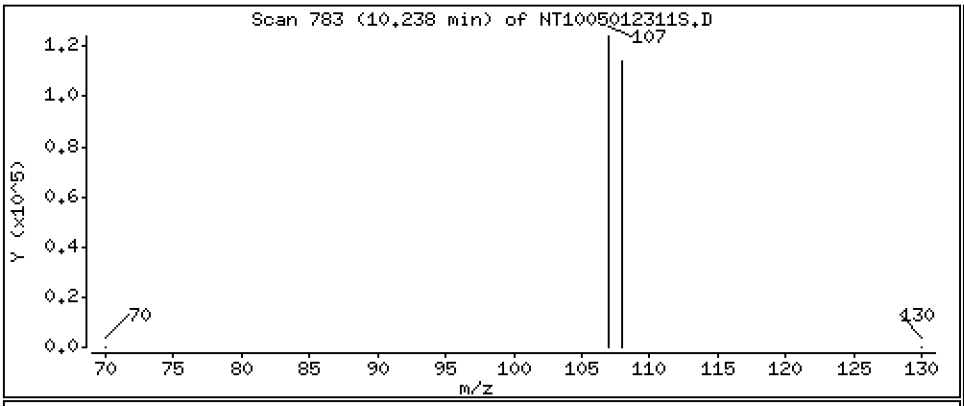
Operator: JGR

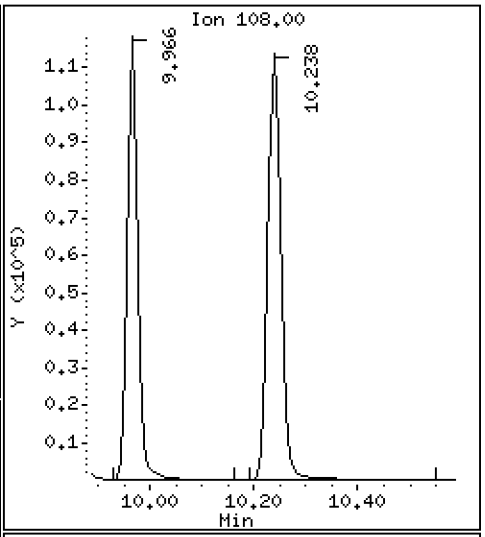
Column phase: ZB-5msi

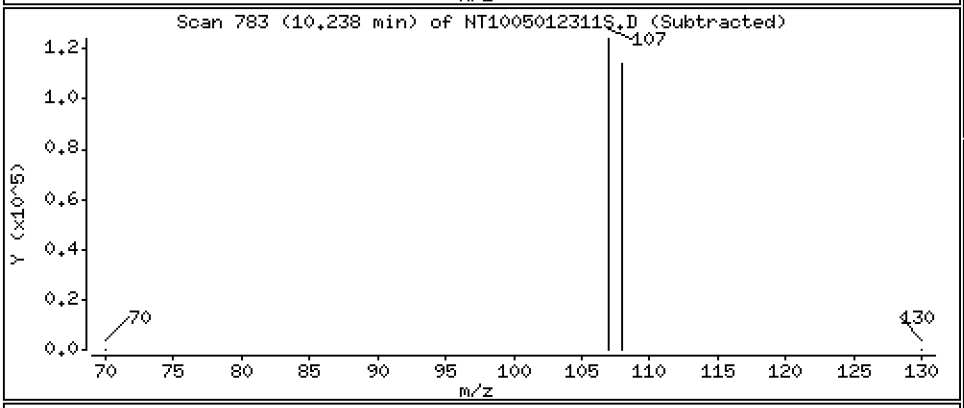
Column diameter: 0.25

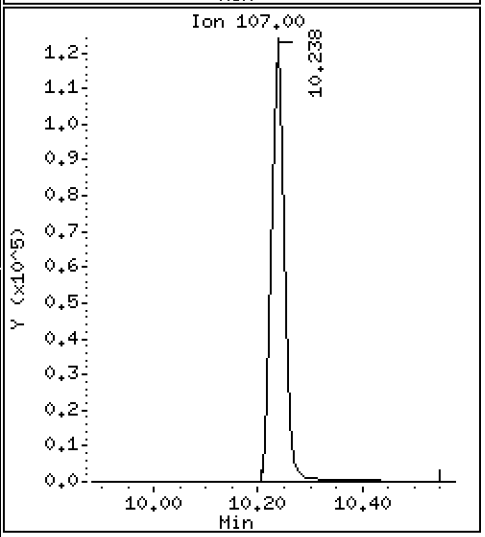
15 4-Methylphenol

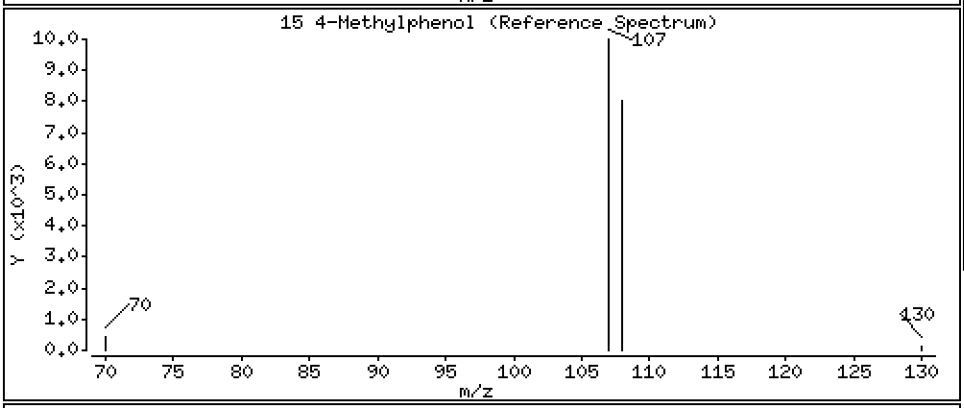
Concentration: 4.470 ug/L

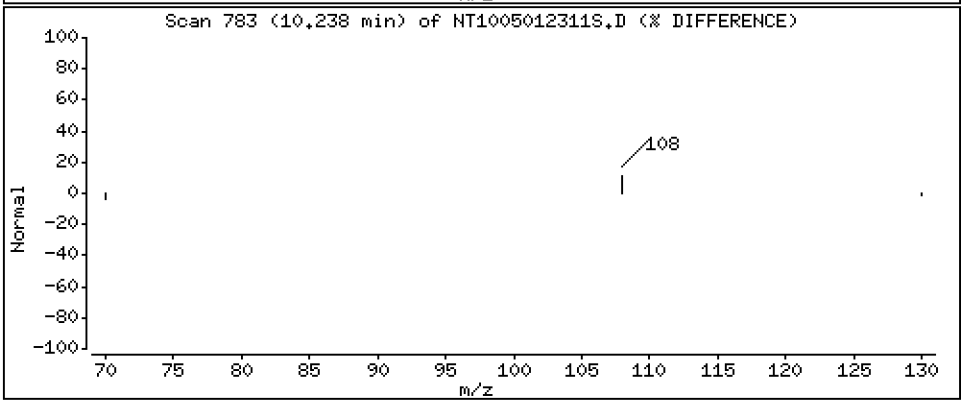












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

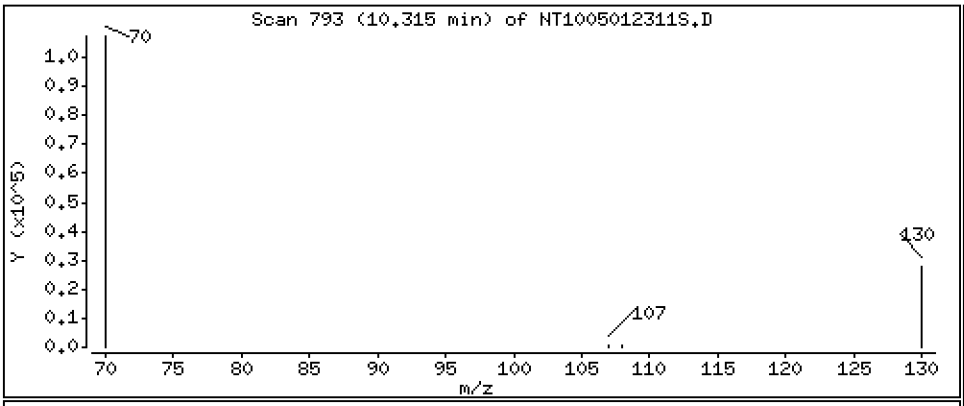
Operator: JGR

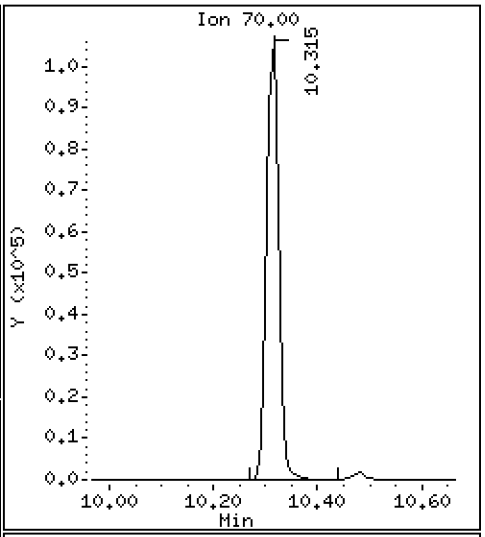
Column phase: ZB-5msi

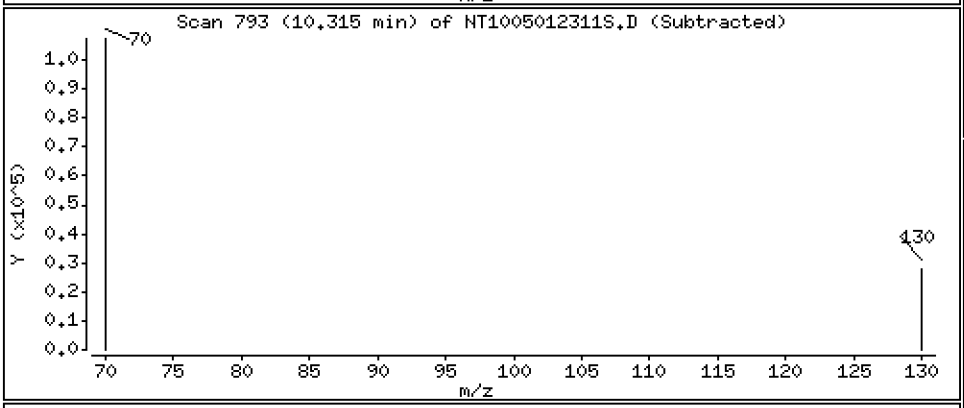
Column diameter: 0.25

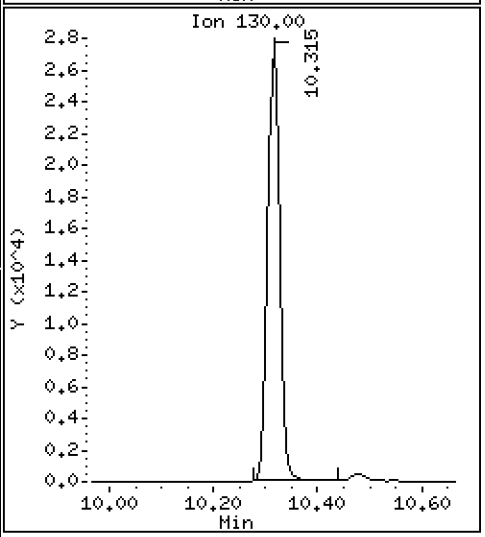
16 N-Nitroso-di-n-propylamine

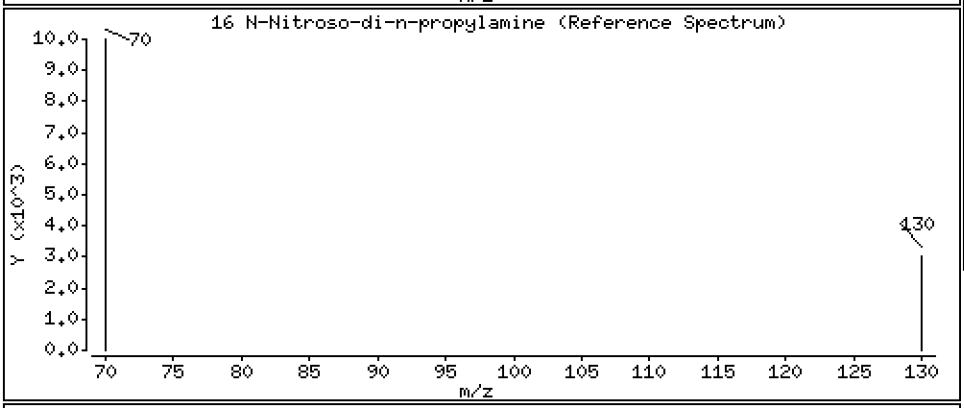
Concentration: 5.268 ug/L

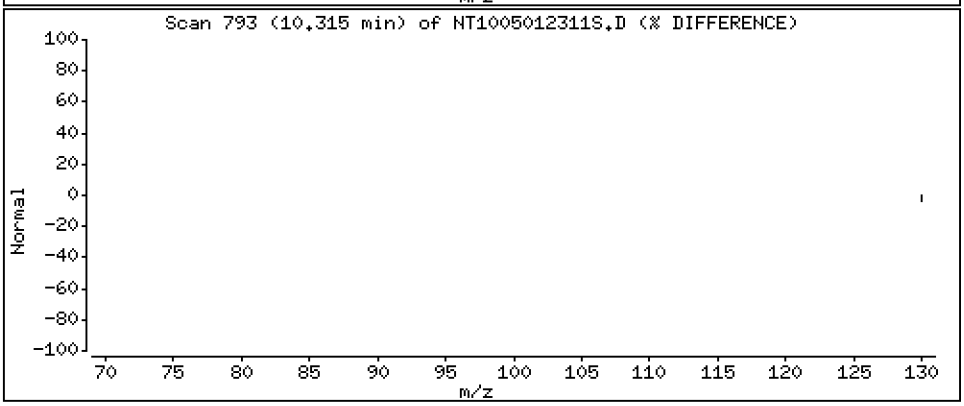












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

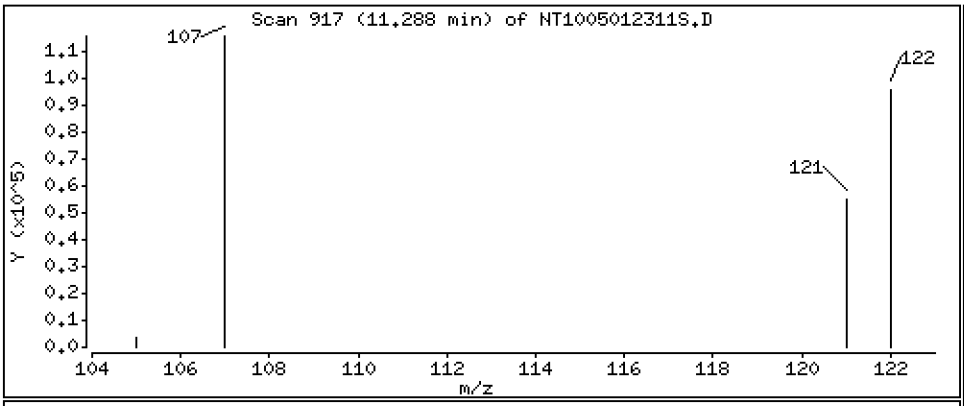
Operator: JGR

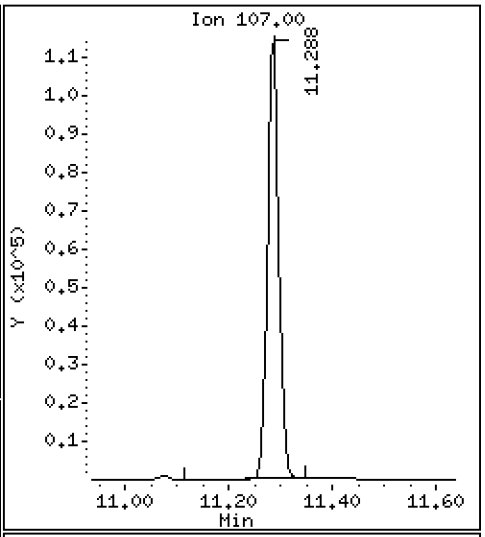
Column phase: ZB-5msi

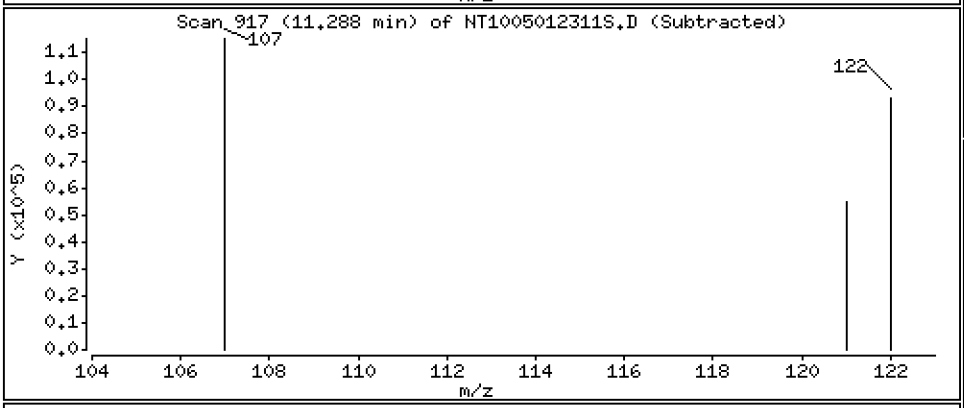
Column diameter: 0.25

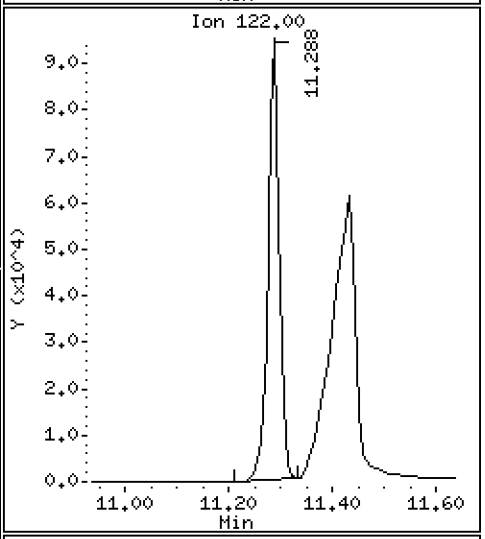
22 2,4-Dimethylphenol

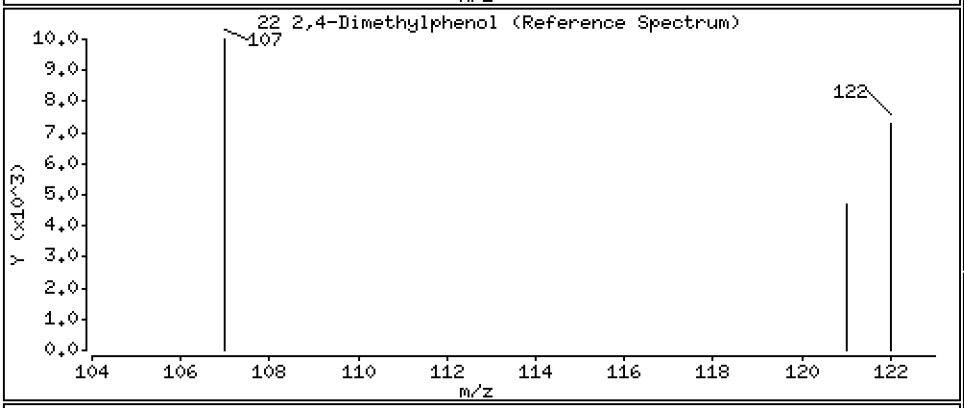
Concentration: 3.489 ug/L

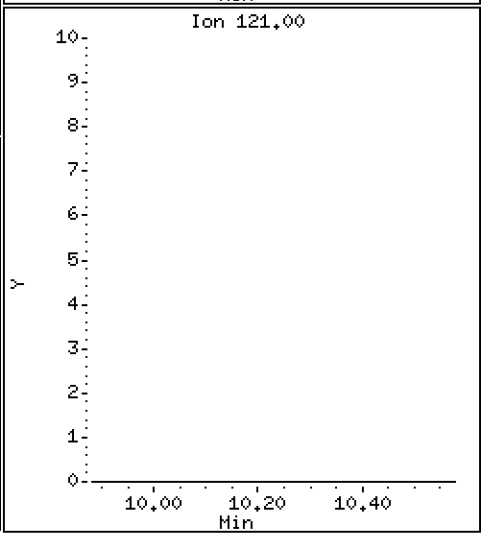


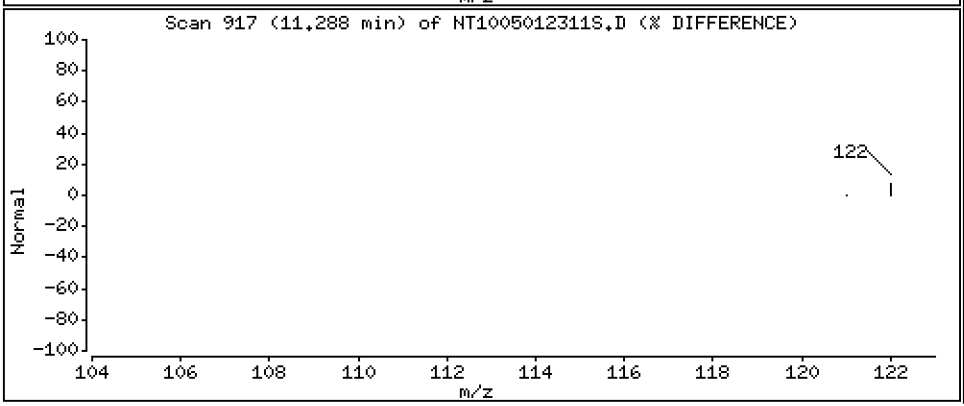












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

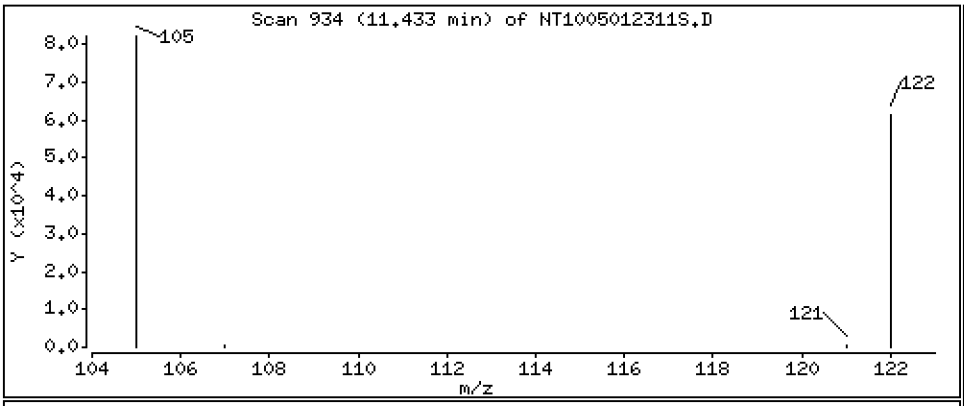
Operator: JGR

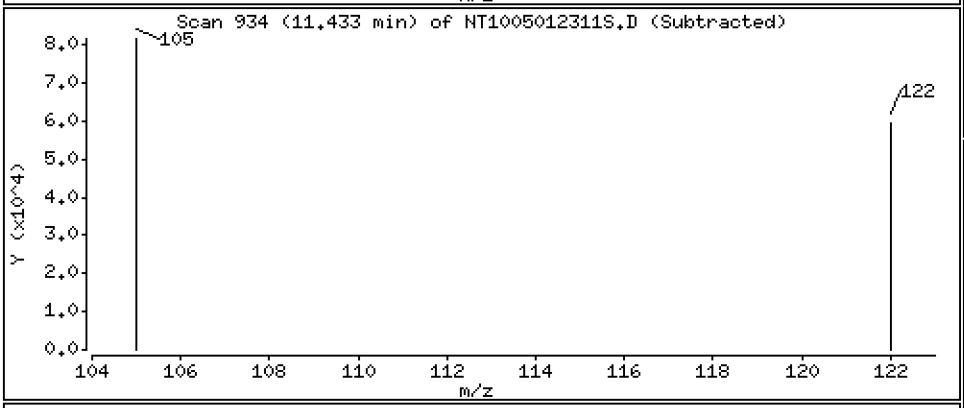
Column phase: ZB-5msi

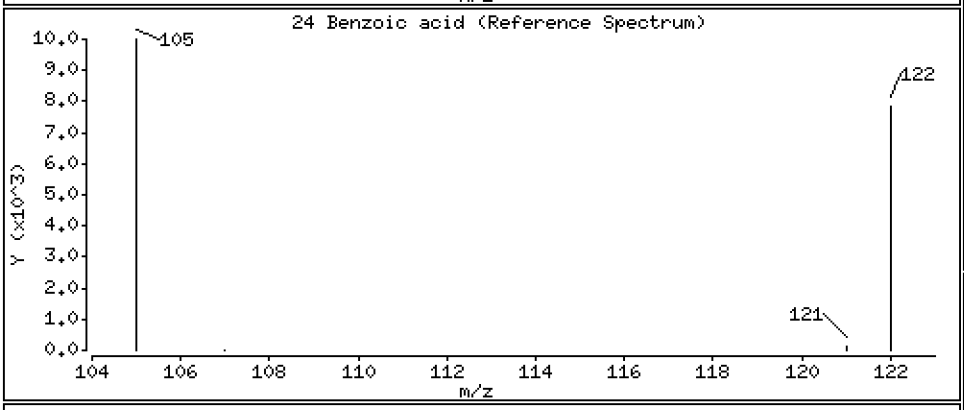
Column diameter: 0.25

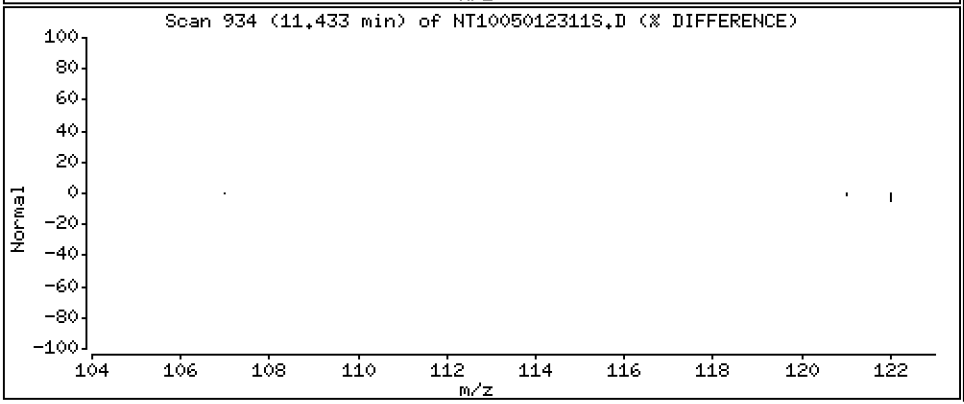
24 Benzoic acid

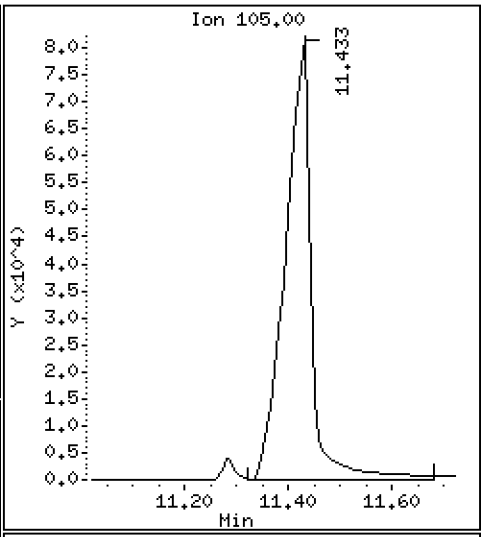
Concentration: 8.322 ug/L

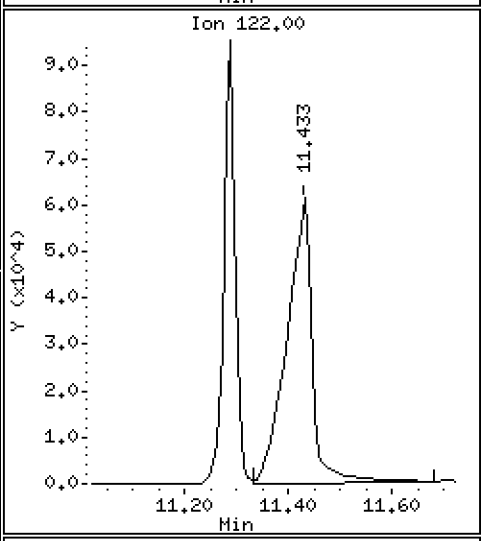


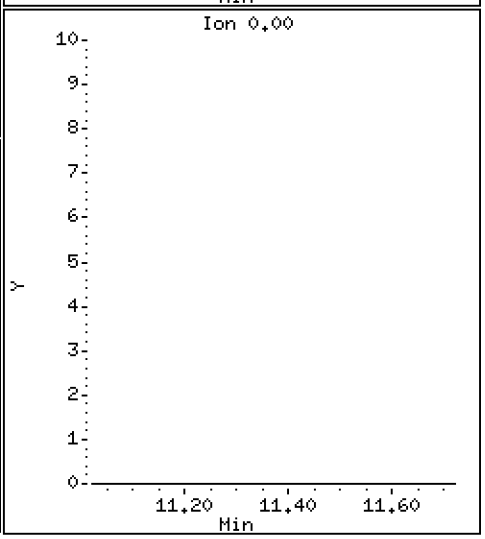












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

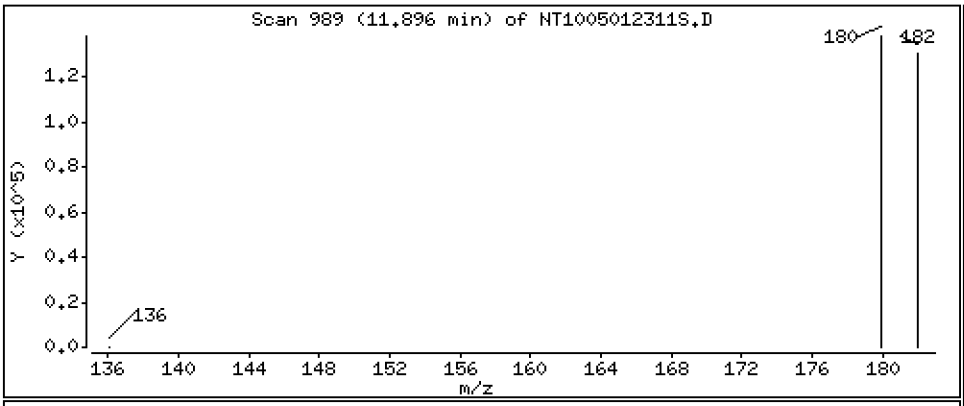
Operator: JGR

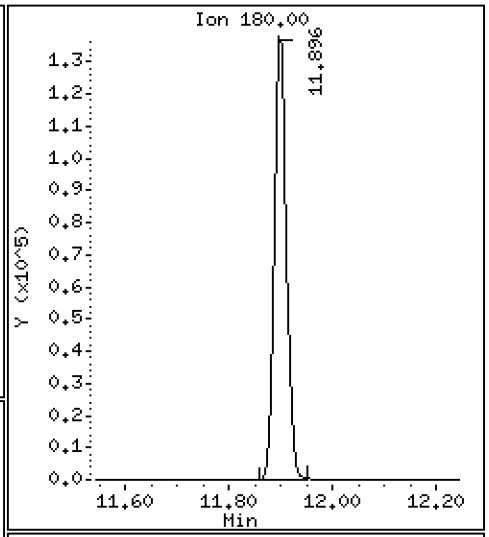
Column phase: ZB-5msi

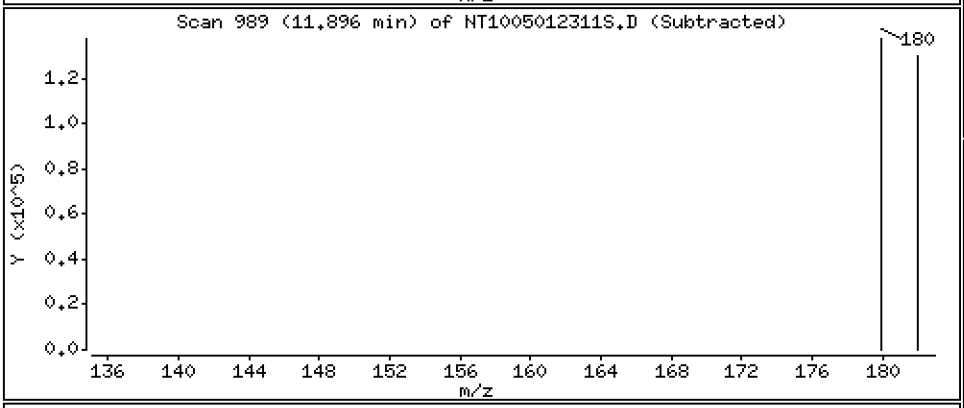
Column diameter: 0.25

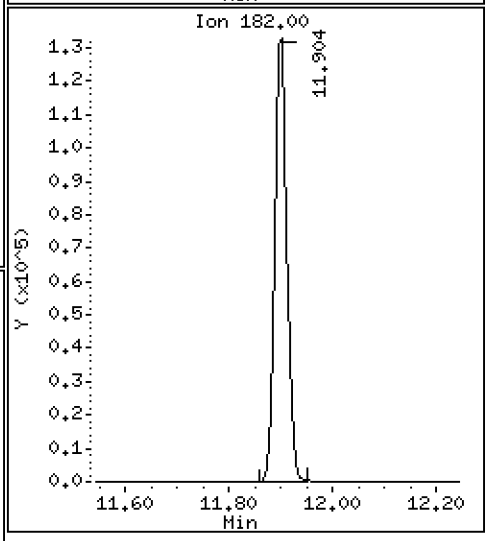
26 1,2,4-Trichlorobenzene

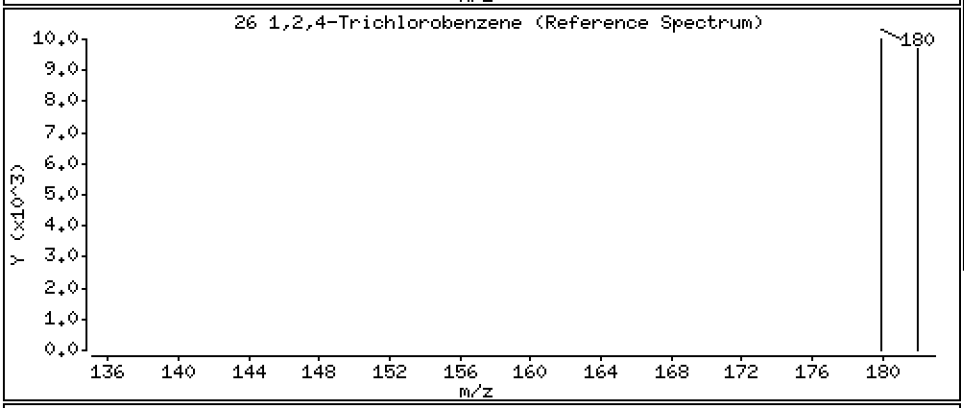
Concentration: 4.321 ug/L

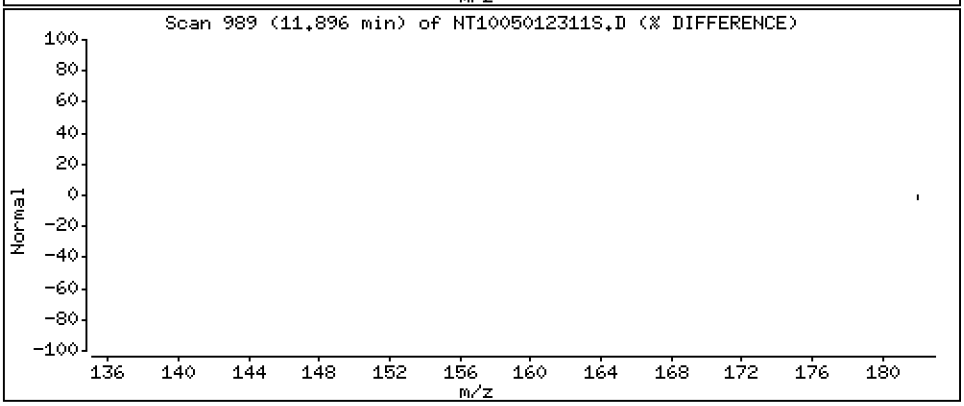












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

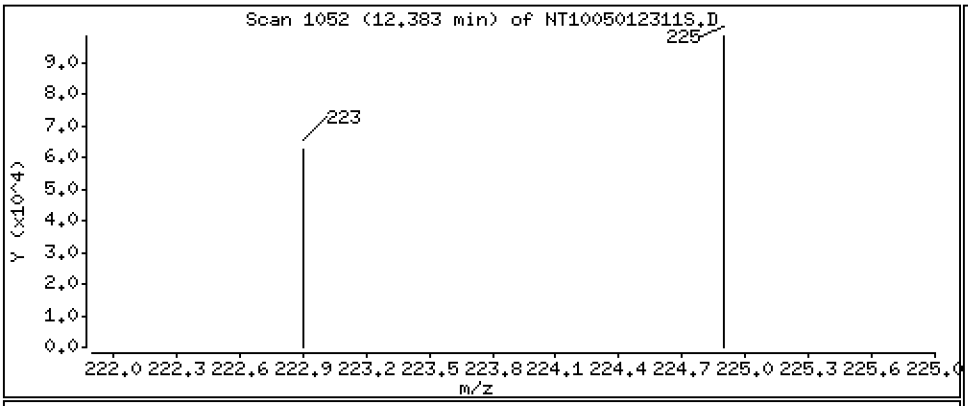
Operator: JGR

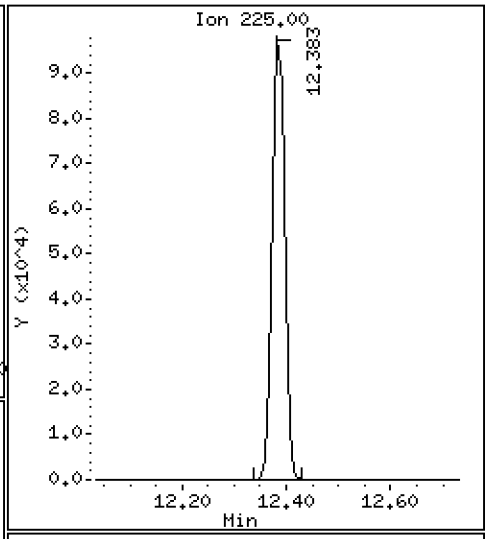
Column phase: ZB-5msi

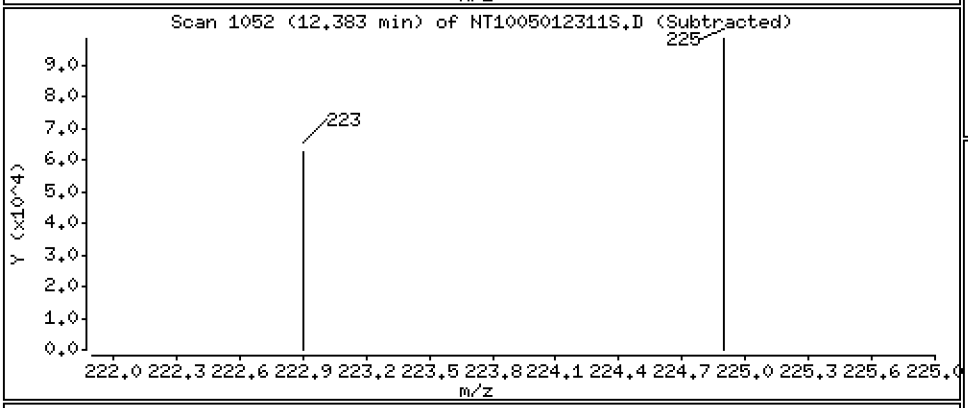
Column diameter: 0.25

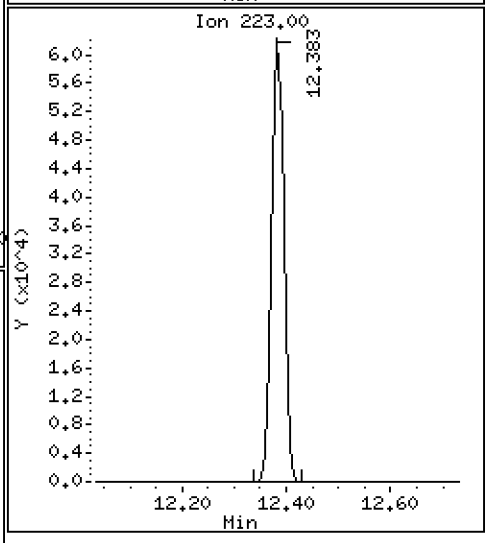
30 Hexachlorobutadiene

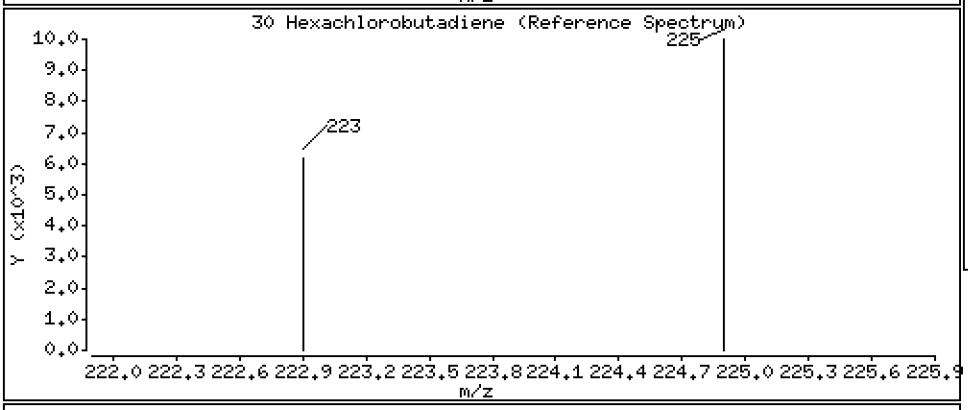
Concentration: 4.632 ug/L

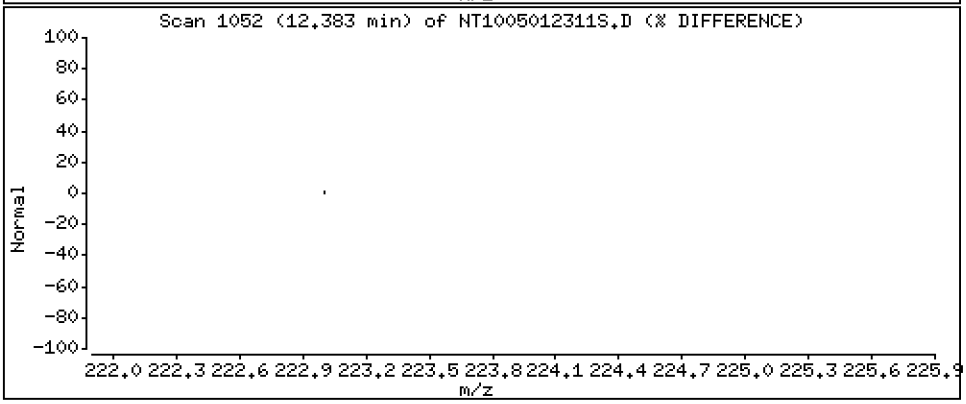












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT10050123115.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

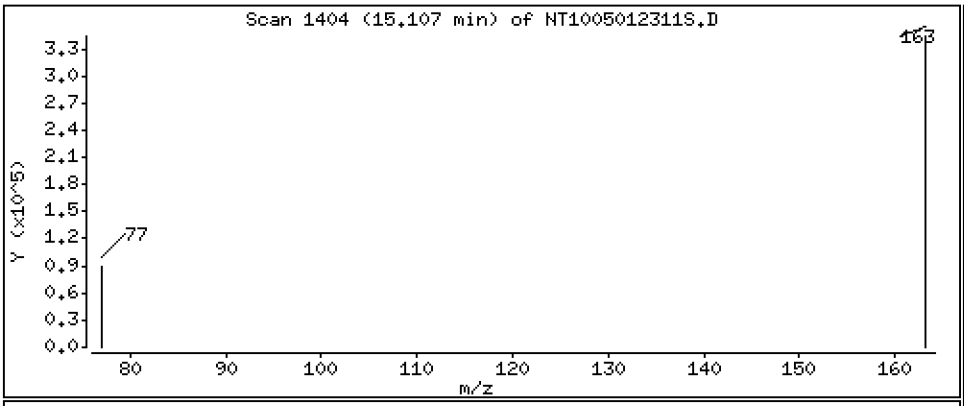
Operator: JGR

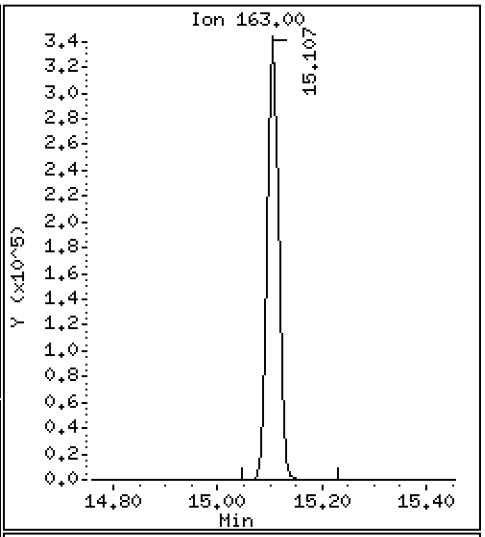
Column phase: ZB-5msi

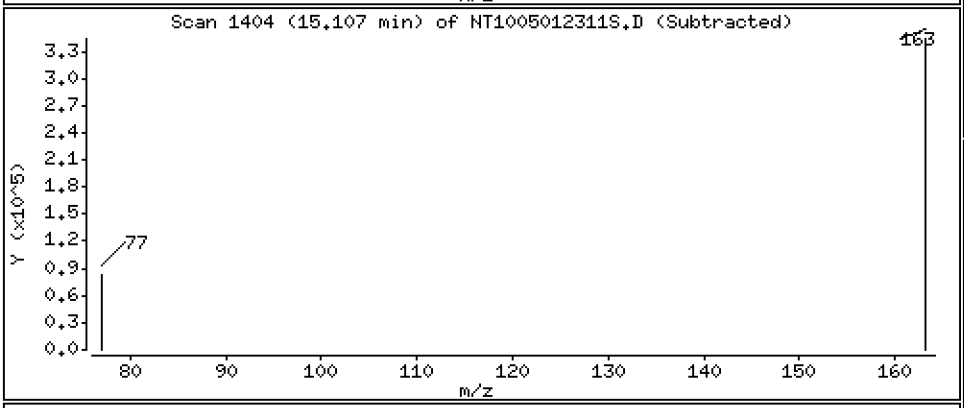
Column diameter: 0.25

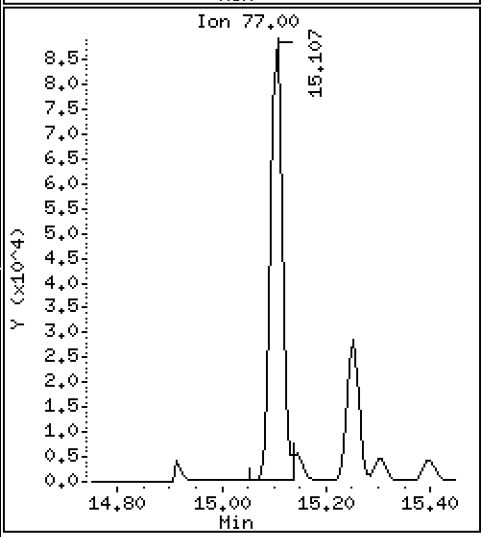
39 Dimethylphthalate

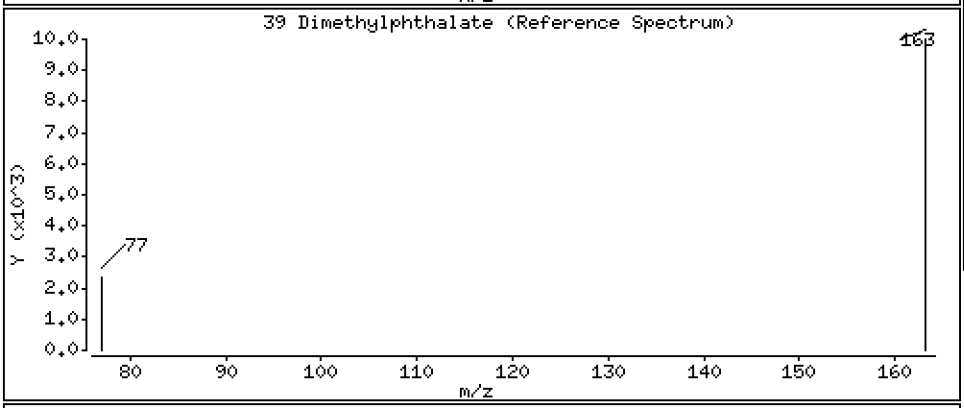
Concentration: 4.875 ug/L

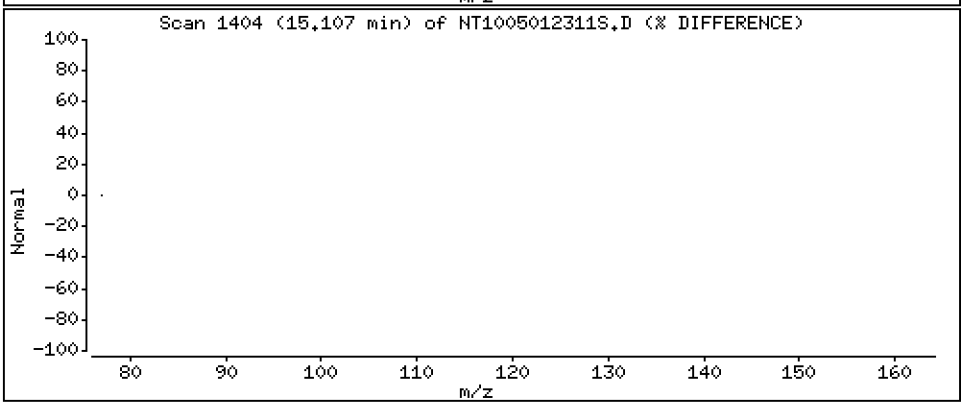












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

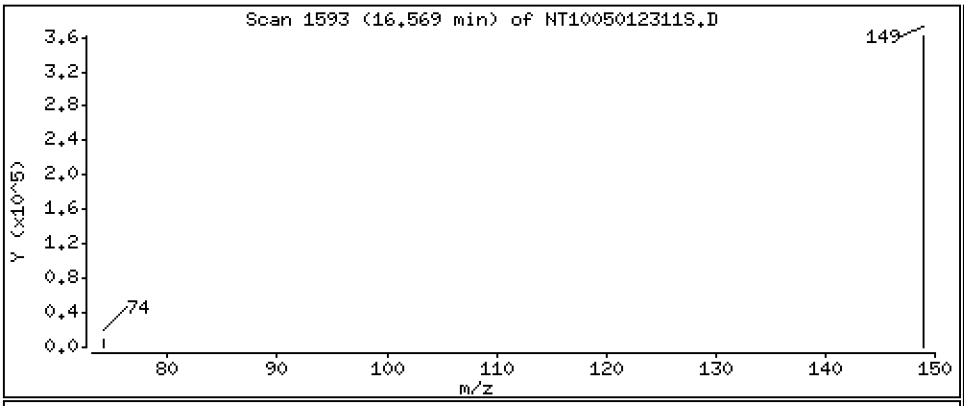
Operator: JGR

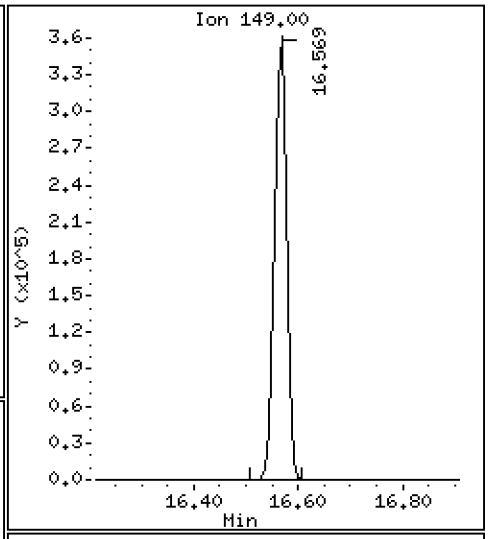
Column phase: ZB-5msi

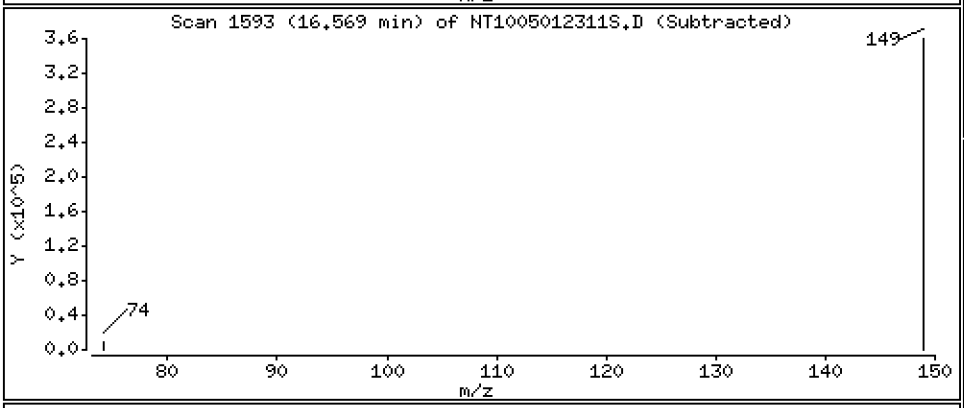
Column diameter: 0.25

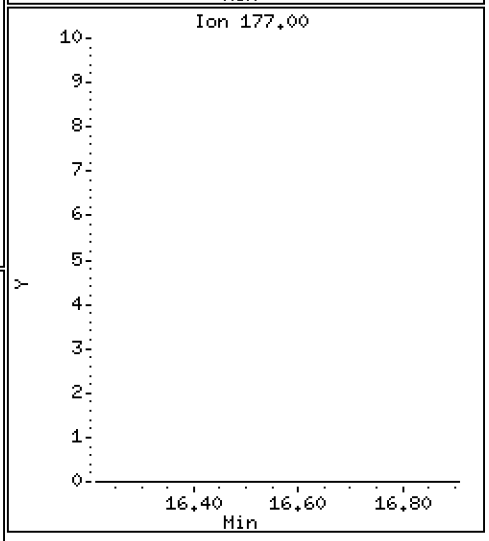
50 Diethylphthalate

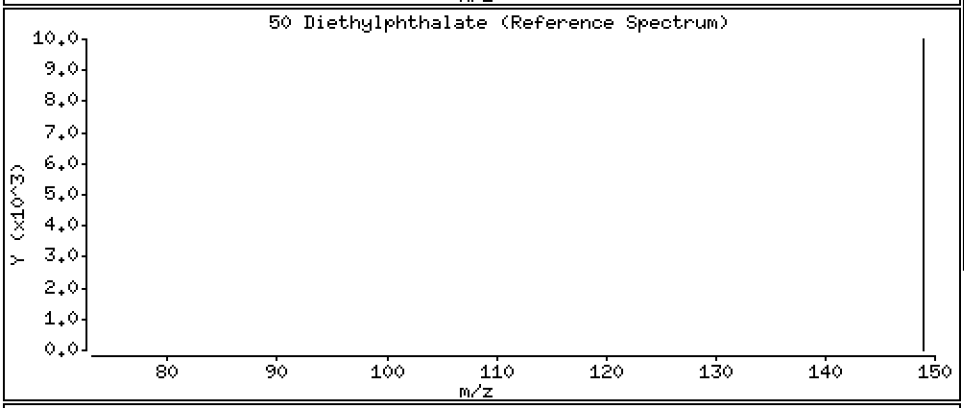
Concentration: 5.253 ug/L

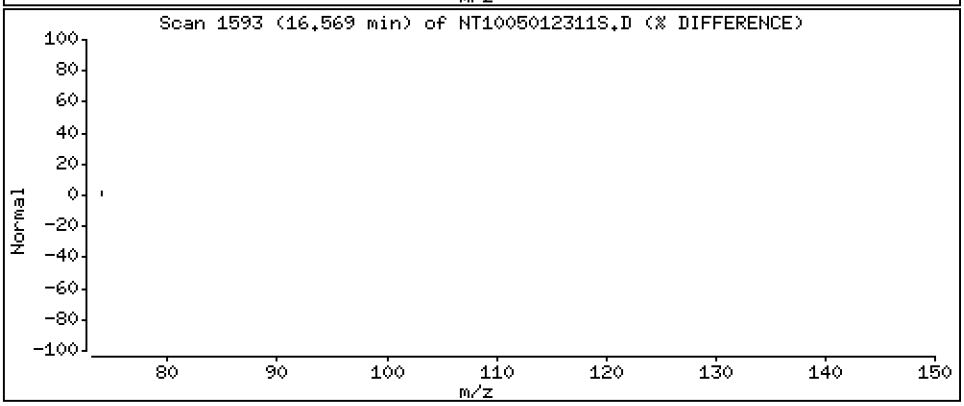












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

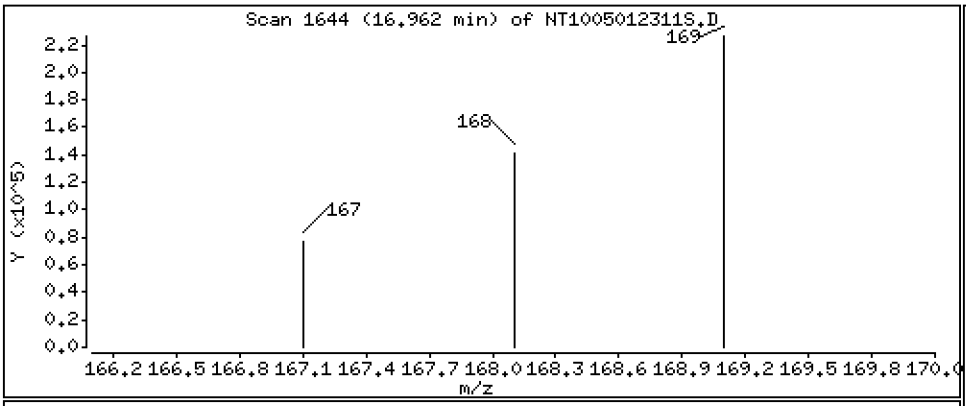
Operator: JGR

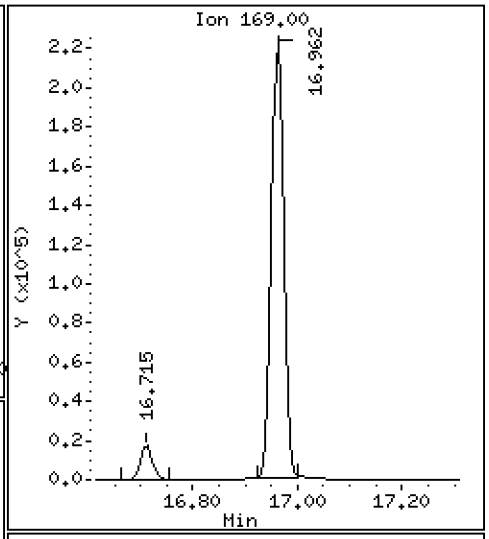
Column phase: ZB-5msi

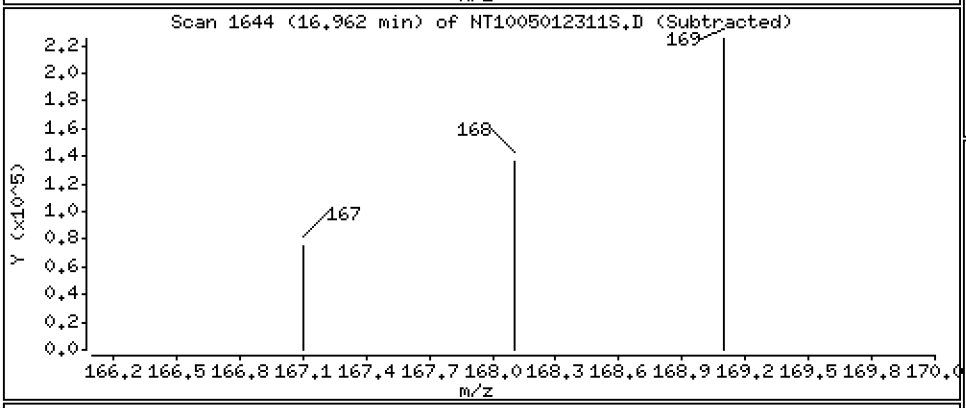
Column diameter: 0.25

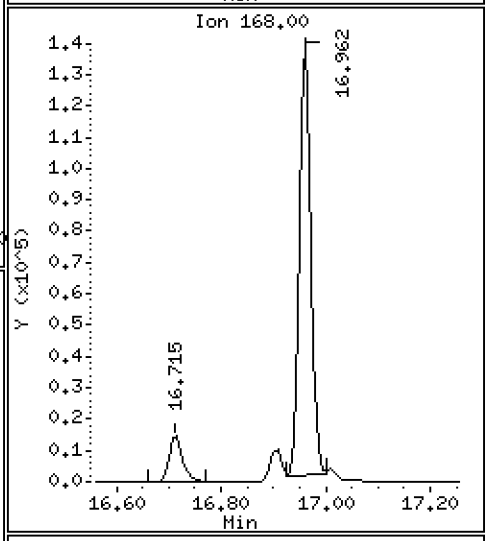
54 N-Nitrosodiphenylamine

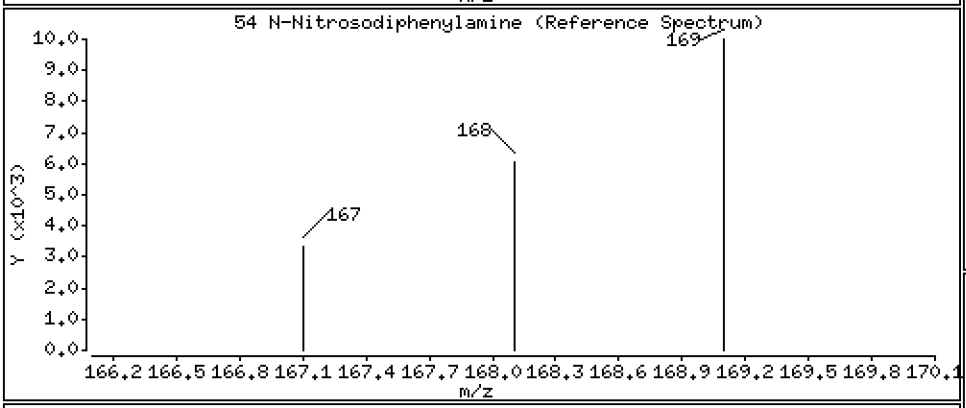
Concentration: 5.289 ug/L

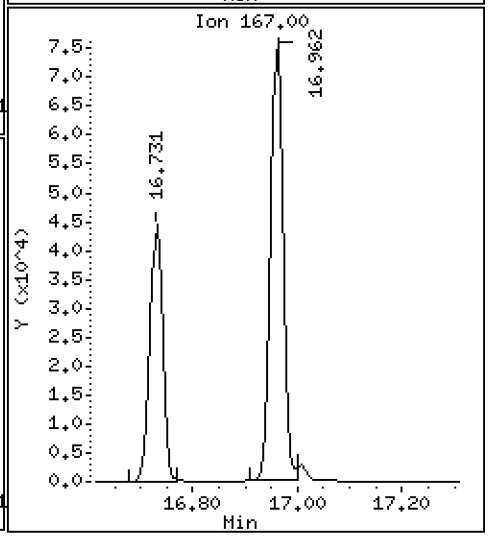


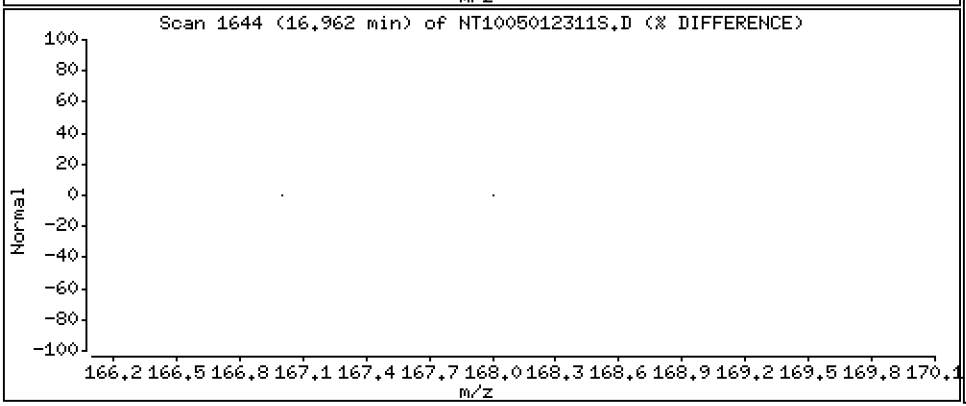












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

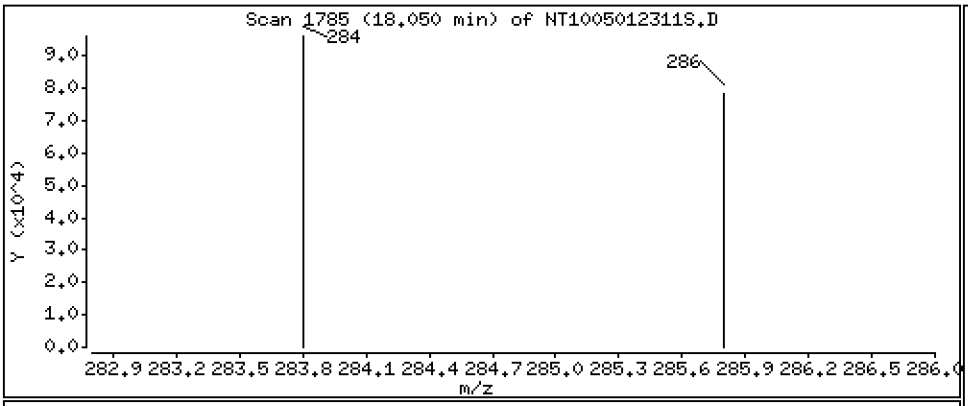
Operator: JGR

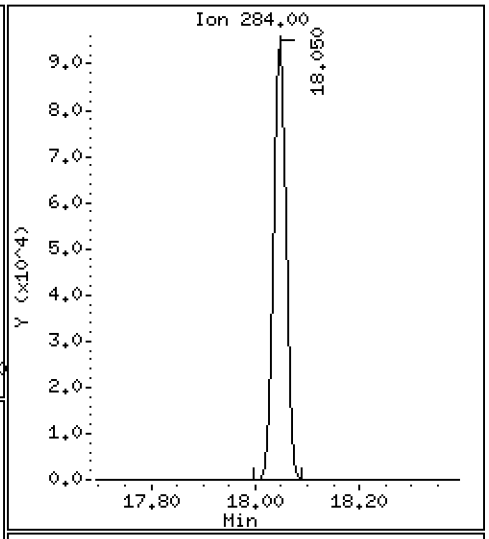
Column phase: ZB-5msi

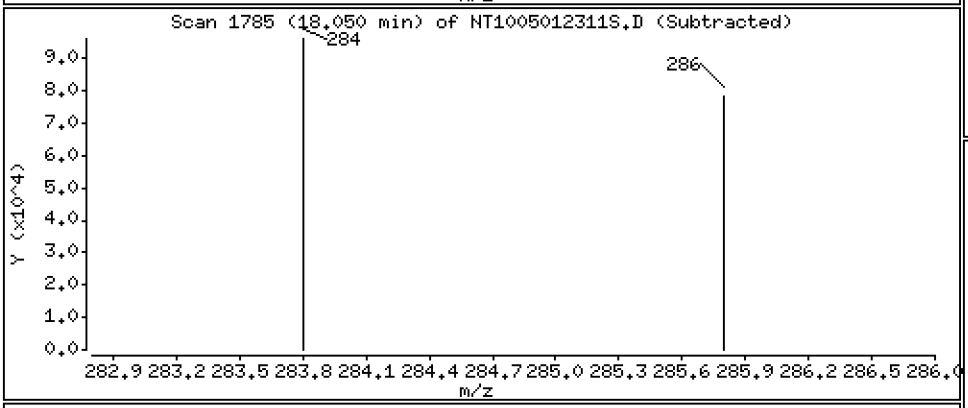
Column diameter: 0.25

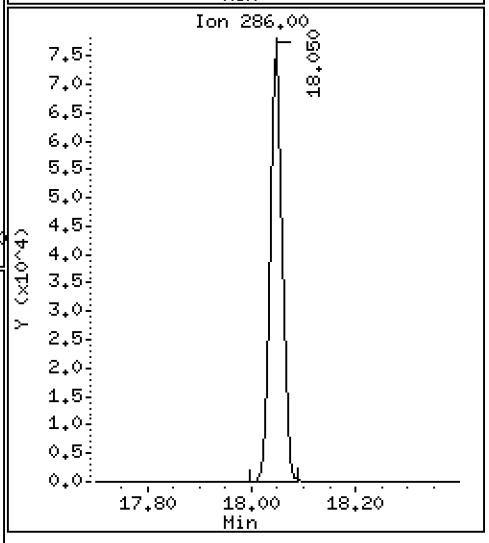
57 Hexachlorobenzene

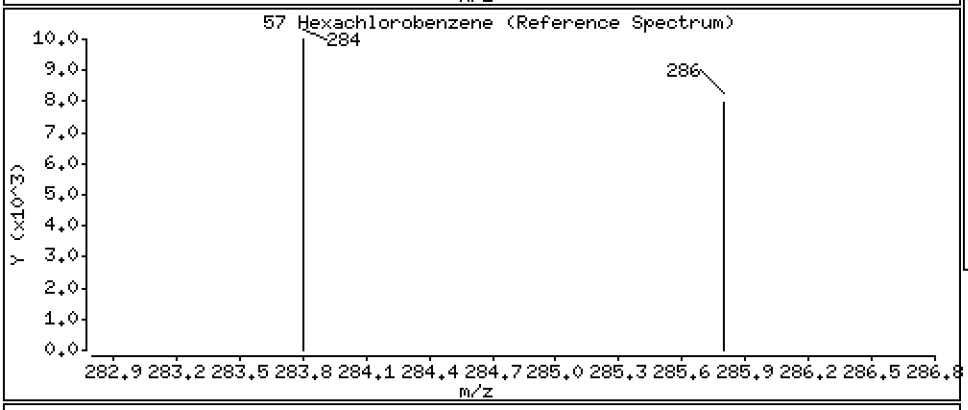
Concentration: 4.640 ug/L

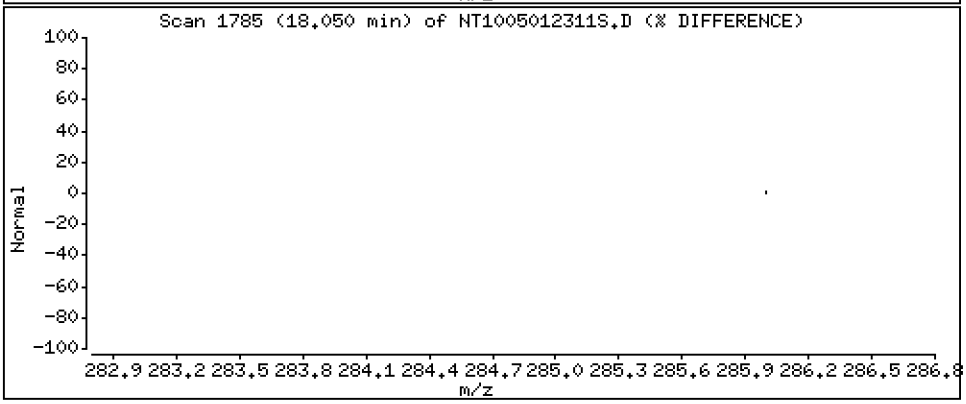












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

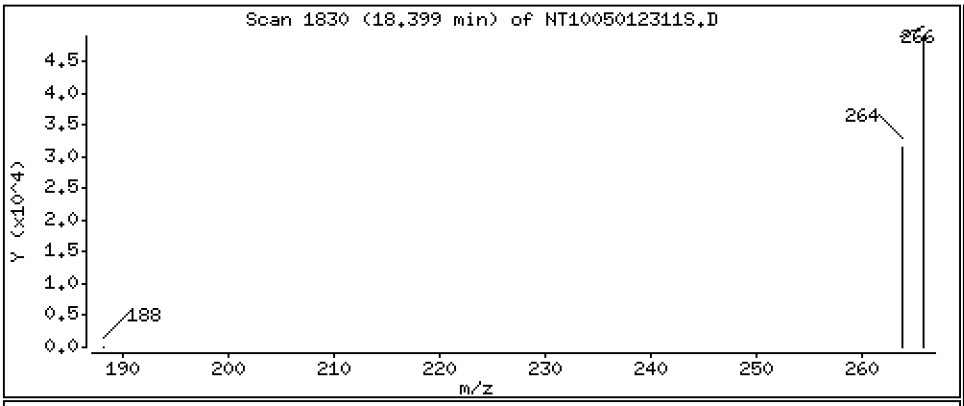
Operator: JGR

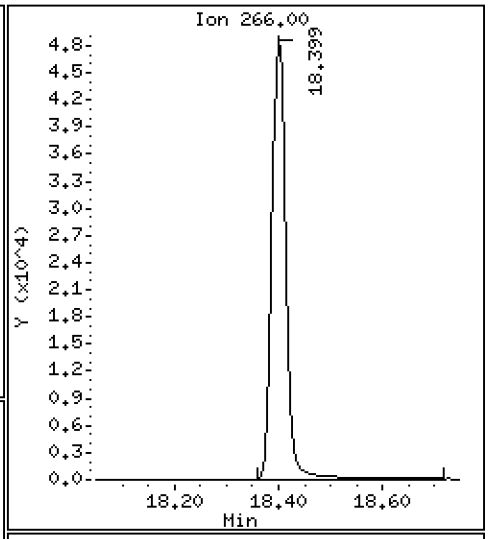
Column phase: ZB-5msi

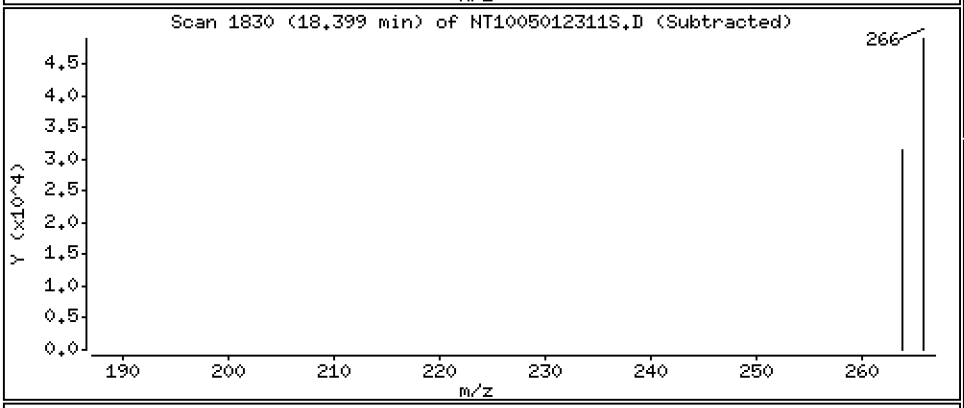
Column diameter: 0.25

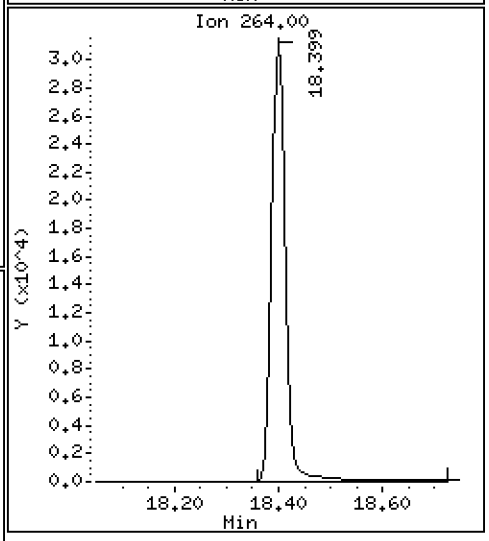
58 Pentachlorophenol

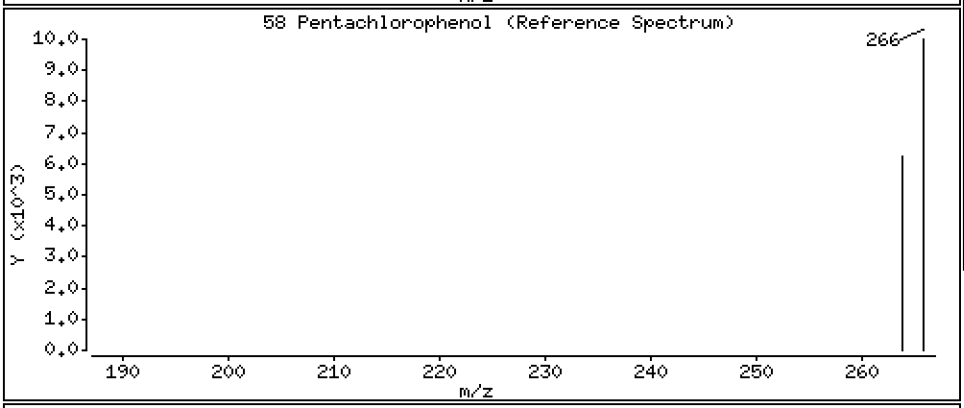
Concentration: 4.346 ug/L

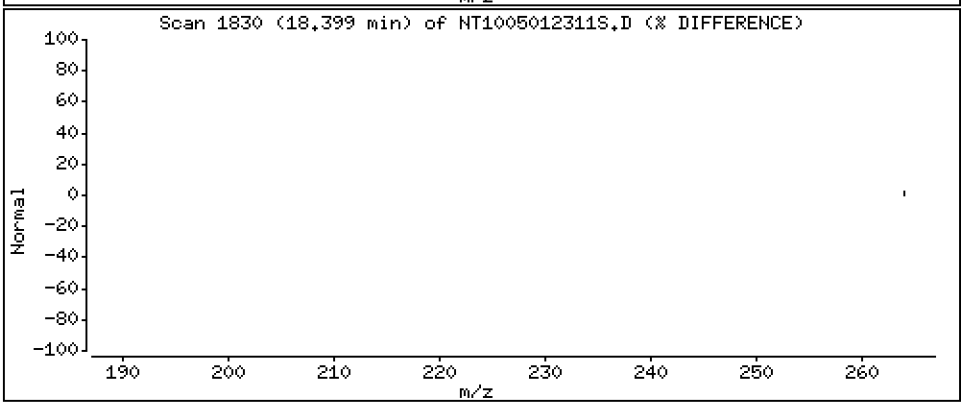












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

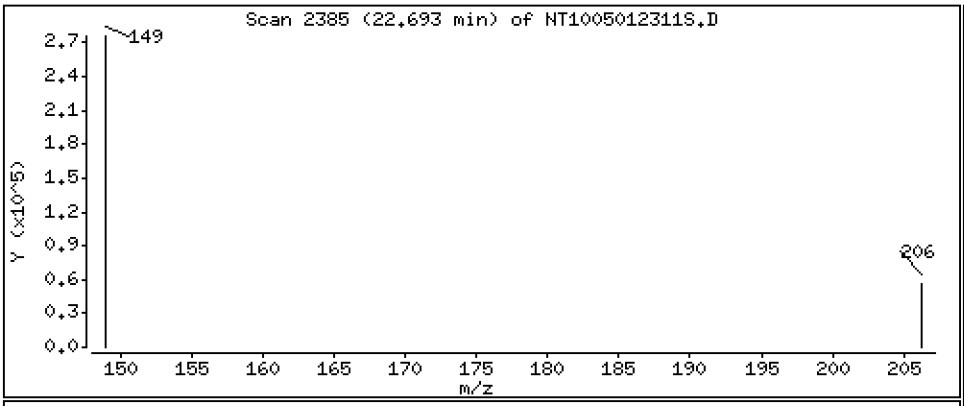
Operator: JGR

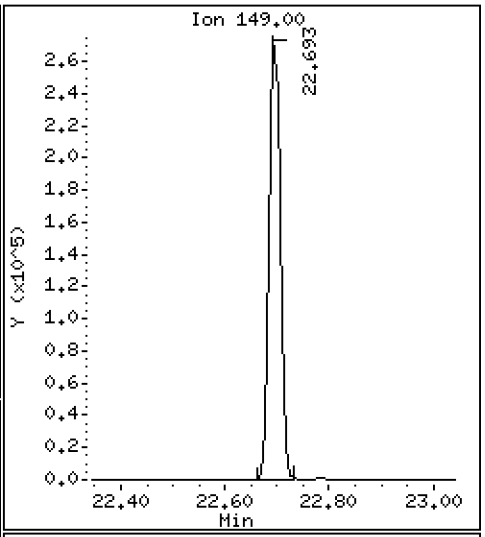
Column phase: ZB-5msi

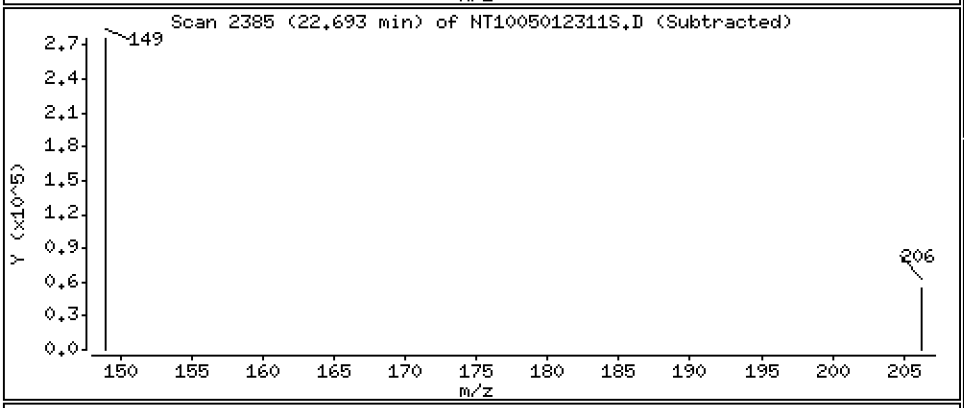
Column diameter: 0.25

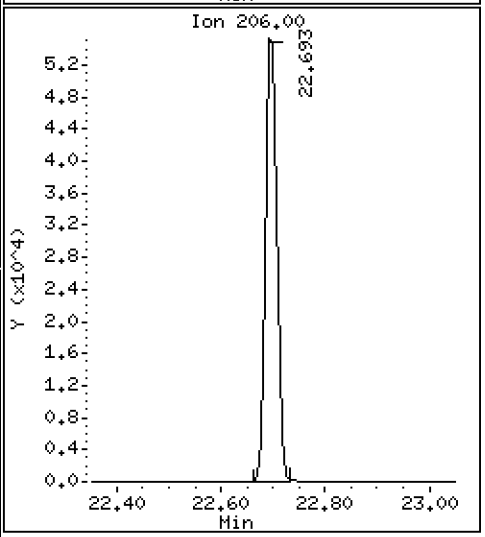
67 Butylbenzylphthalate

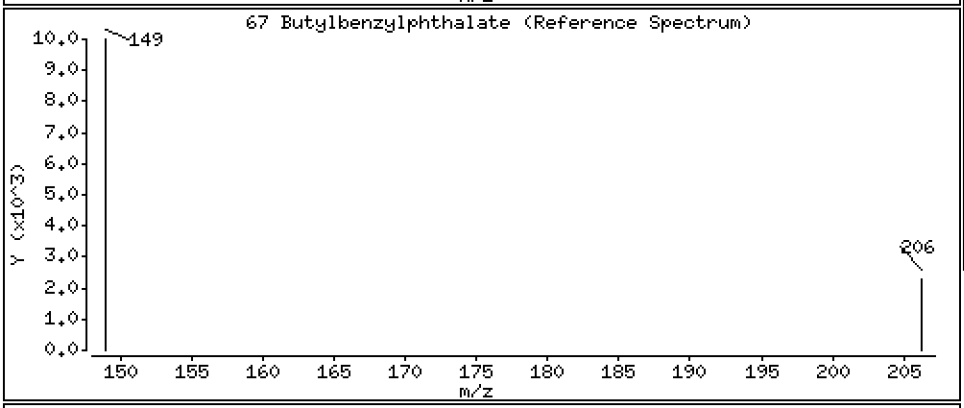
Concentration: 5.065 ug/L

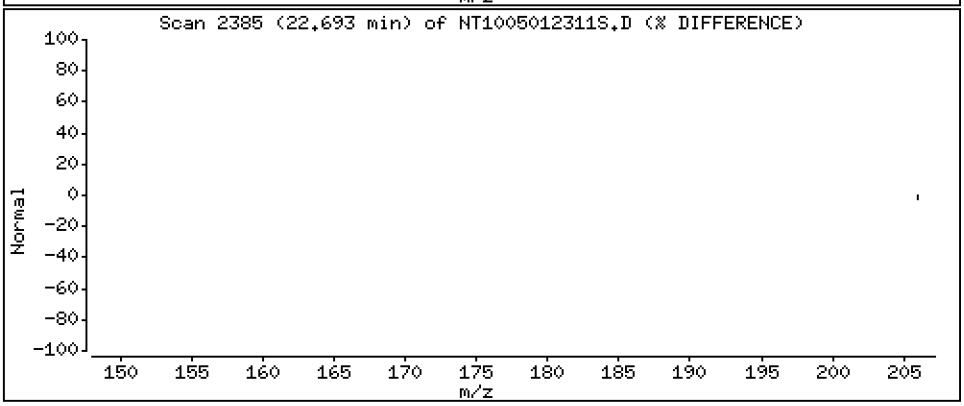












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

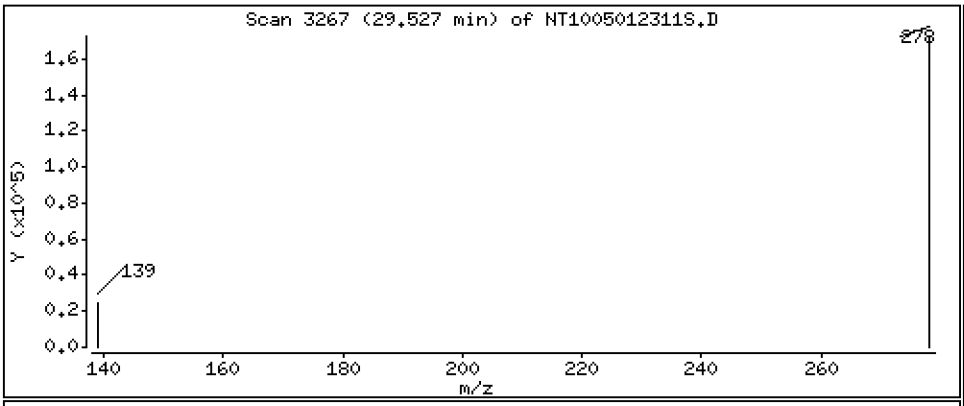
Operator: JGR

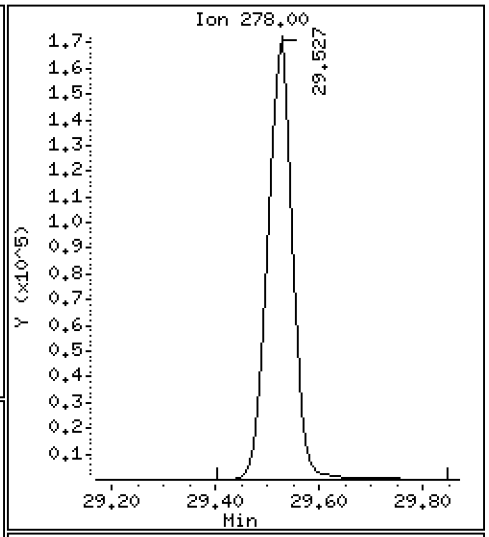
Column phase: ZB-5msi

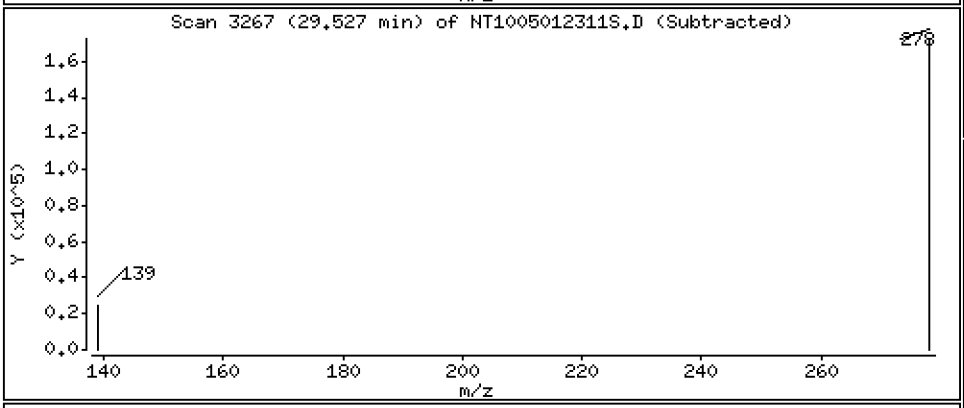
Column diameter: 0.25

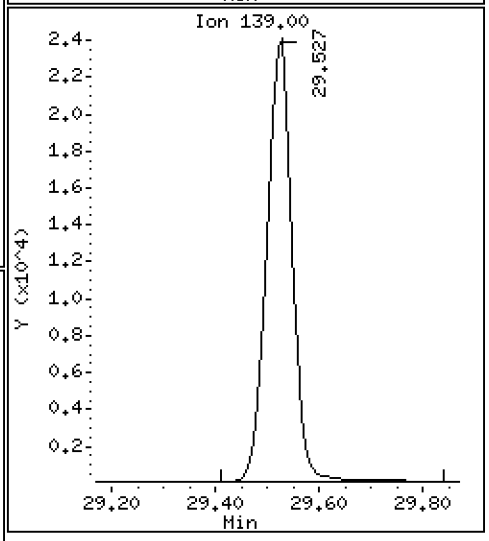
79 Dibenzo(a,h)anthracene

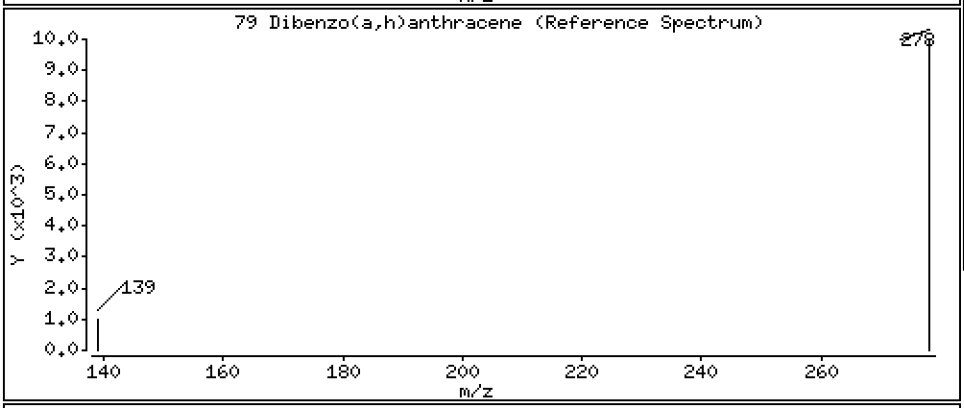
Concentration: 4.815 ug/L

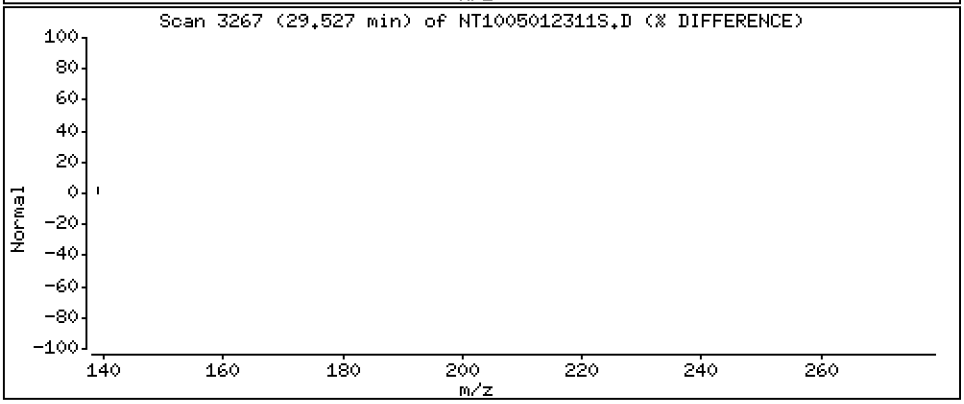












Data File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D

Date : 01-MAY-2023 20:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0082-SCV1

Volume Injected (uL): 1.0

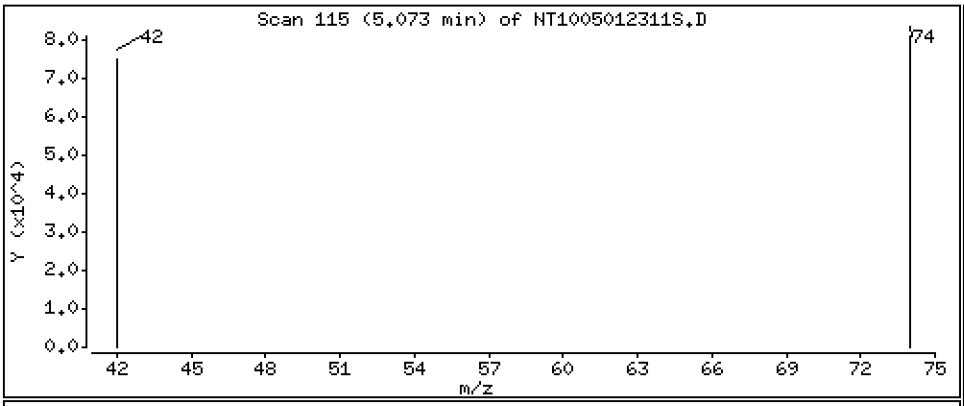
Operator: JGR

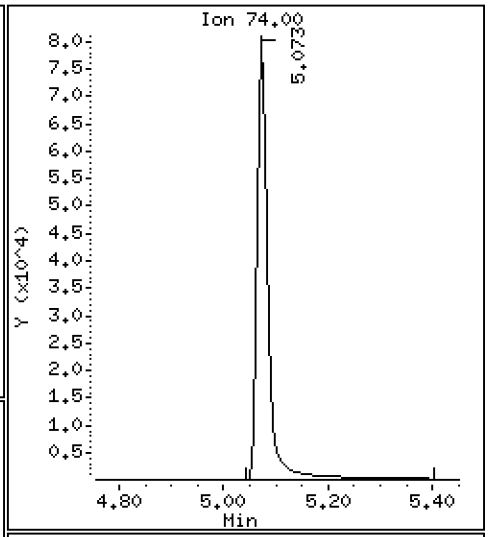
Column phase: ZB-5msi

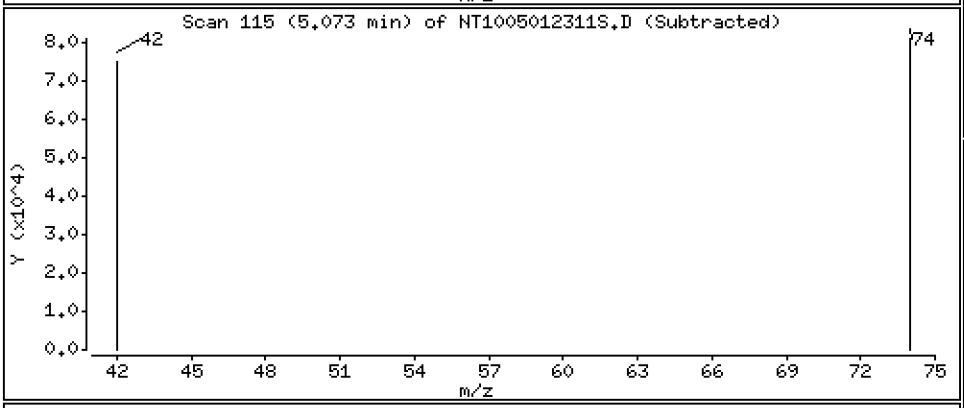
Column diameter: 0.25

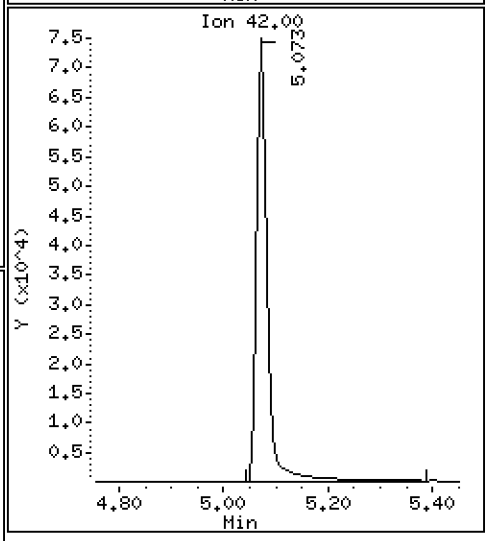
90 N-Nitrosodimethylamine

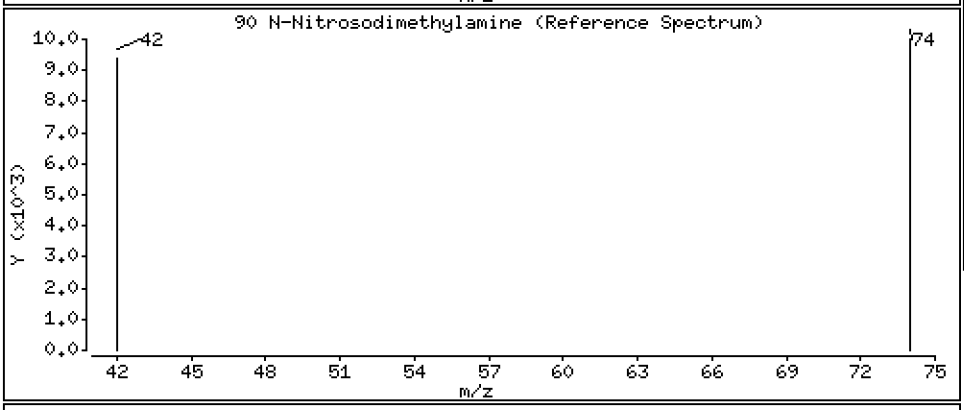
Concentration: 5.213 ug/L

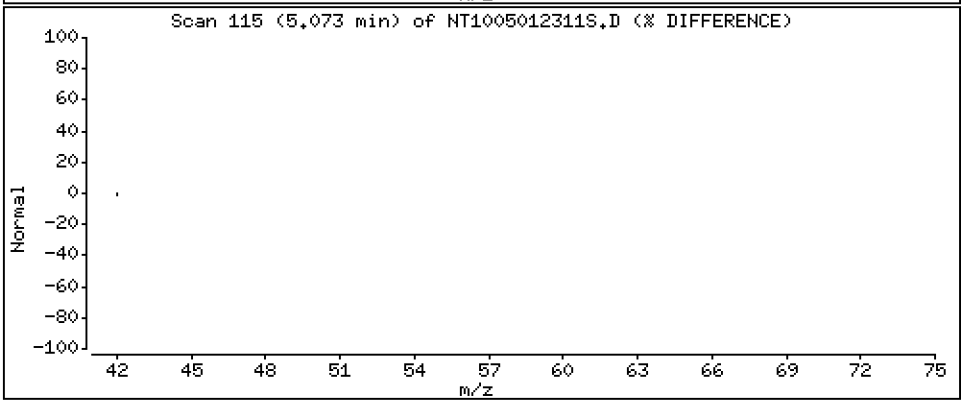












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Inj Date : 01-MAY-2023 20:43 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLE0082-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Meth Date : 05-May-2023 13:56 deenayd Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: DEENAY-201905

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.235	7.243	(0.762)	1569	0.03614	0.03614(R)
3	Phenol	94	8.842	8.842	(0.932)	241257	4.43593	4.436
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	266593	4.66088	4.661
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	142531	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	271019	4.78410	4.784
11	Benzyl alcohol	79	9.748	9.756	(1.027)	198278	5.27178	5.272
12	1,2-Dichlorobenzene	146	9.880	9.880	(1.041)	253729	4.65664	4.657
13	2-Methylphenol	108	9.965	9.965	(1.050)	172706	4.24306	4.243
15	4-Methylphenol	108	10.237	10.237	(1.079)	191289	4.46966	4.470
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	162670	5.26784	5.268
22	2,4-Dimethylphenol	107	11.288	11.288	(0.942)	176836	3.48934	3.489(M)
24	Benzoic acid	105	11.432	11.373	(0.954)	283387	8.32169	8.322
26	1,2,4-Trichlorobenzene	180	11.896	11.896	(0.992)	224651	4.32072	4.321
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	510045	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	153764	4.63178	4.632
39	Dimethylphthalate	163	15.106	15.107	(0.967)	487893	4.87533	4.875
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	263993	4.00000	
50	Diethylphthalate	149	16.568	16.560	(1.061)	564424	5.25278	5.253
54	N-Nitrosodiphenylamine	169	16.962	16.962	(0.908)	349152	5.28852	5.289
57	Hexachlorobenzene	284	18.050	18.042	(0.966)	150021	4.64019	4.640

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.398	(0.985)	87352	4.34597	4.346
*	59 Phenanthrene-d10	188	18.677	18.677	(1.000)	506239	4.00000	
$	66 Terphenyl-d14	244	21.779	21.779	(0.919)	2121	0.02441	0.02441(R)
	67 Butylbenzylphthalate	149	22.693	22.693	(0.958)	378823	5.06538	5.065
*	69 Chrysene-d12	240	23.699	23.692	(1.000)	402889	4.00000	
*	77 Perylene-d12	264	26.533	26.533	(1.000)	365734	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.527	29.519	(1.113)	568400	4.81466	4.815
	90 N-Nitrosodimethylamine	74	5.072	5.103	(0.534)	123469	5.21274	5.213

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005012311S.D
Lab Smp Id: SLE0082-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Misc Info:

Calibration Date: 01-MAY-2023
Calibration Time: 17:28
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	169173	84587	338346	142531	-15.75
27 Naphthalene-d8	594924	297462	1189848	510045	-14.27
42 Acenaphthene-d10	304980	152490	609960	263993	-13.44
59 Phenanthrene-d10	609190	304595	1218380	506239	-16.90
69 Chrysene-d12	479061	239531	958122	402889	-15.90
77 Perylene-d12	427162	213581	854324	365734	-14.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.50	9.00	10.00	9.49	-0.08
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.63	15.13	16.13	15.62	-0.05
59 Phenanthrene-d10	18.68	18.18	19.18	18.68	0.00
69 Chrysene-d12	23.70	23.20	24.20	23.70	0.00
77 Perylene-d12	26.54	26.04	27.04	26.53	-0.03

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

REVIEW SUMMARY FOR FILE - NT1005012311S.D

Lab ID: SLE0082-SCV1
nt10.i, 20230501.b\20230501.b\SIMABN2.m,   01-MAY-2023 20:43

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230501.b/NT1005012310S.D

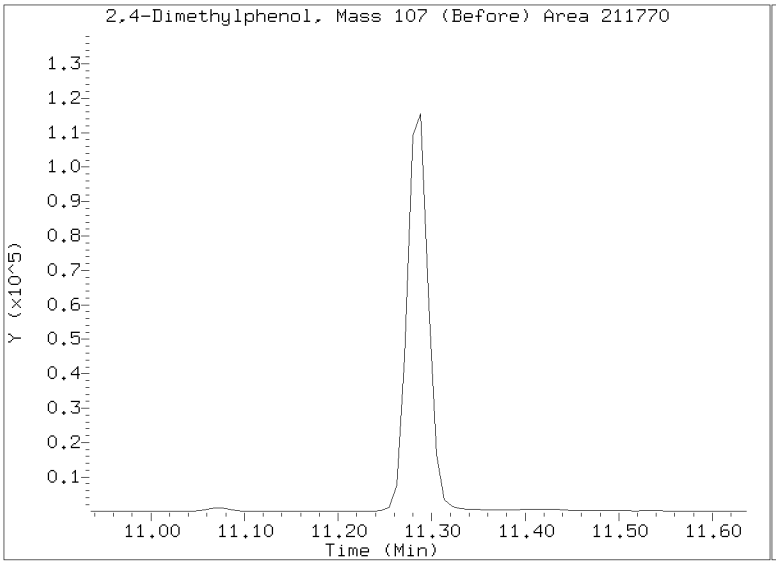
On Column LOD for nt10.i, 20230501.b\SIMABN2.m, PSDDA.sub = 0.0000

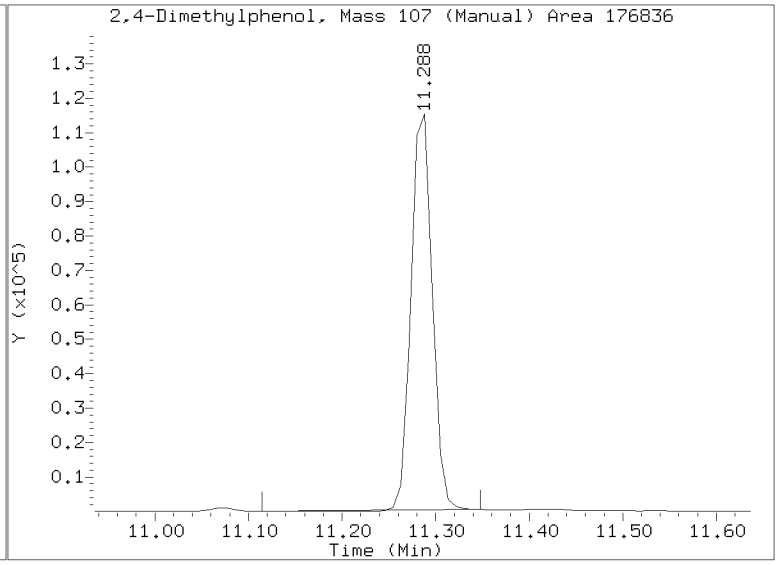
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230501.b/20230501.b/NT1005012311S.D
Injection Date: 01-MAY-2023 20:43
Lab ID:SLE0082-SCV1 Client ID:
Report Date: 05/10/2023 12:32





APPROVED

By Deenay Dunmore at 12:52 pm, May 10, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00018
Lab File ID:	NT1005052317S.D	Calibration Date:	05/04/2023
Sequence:	SLE0466	Injection Date:	05/05/23
Lab Sample ID:	SLE0466-CCV1	Injection Time:	21:08
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	1.0000	0.9	1.5898270	1.4294670		-10.1	+/-50
1,2-Dichlorobenzene	A	1.0000	0.9	1.5291420	1.4185090		-7.2	+/-50
Benzyl Alcohol	A	1.0000	1.0	1.0555230	1.1039900		4.6	+/-50
Benzoic acid	A	4.0000	2.2	0.1834660	0.1441922		-44.6	+/-50
2,4-Dimethylphenol	A	2.0000	2.0	0.3974465	0.3905716		-1.7	+/-50
1,2,4-Trichlorobenzene	A	1.0000	0.9	0.4077591	0.3573729		-12.4	+/-50
N-Nitrosodiphenylamine	A	1.0000	0.9	0.5216563	0.4879272		-6.5	+/-50
Pentachlorophenol	A	2.0000	1.1	0.1295337	0.0866625		-43.8	+/-50
2-Fluorophenol	A	1.5000	1.43	1.2184940	1.1619150		-4.6	+/-50
p-Terphenyl-d14	A	1.0000	1.11	0.8625046	0.9584714		11.1	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523175.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

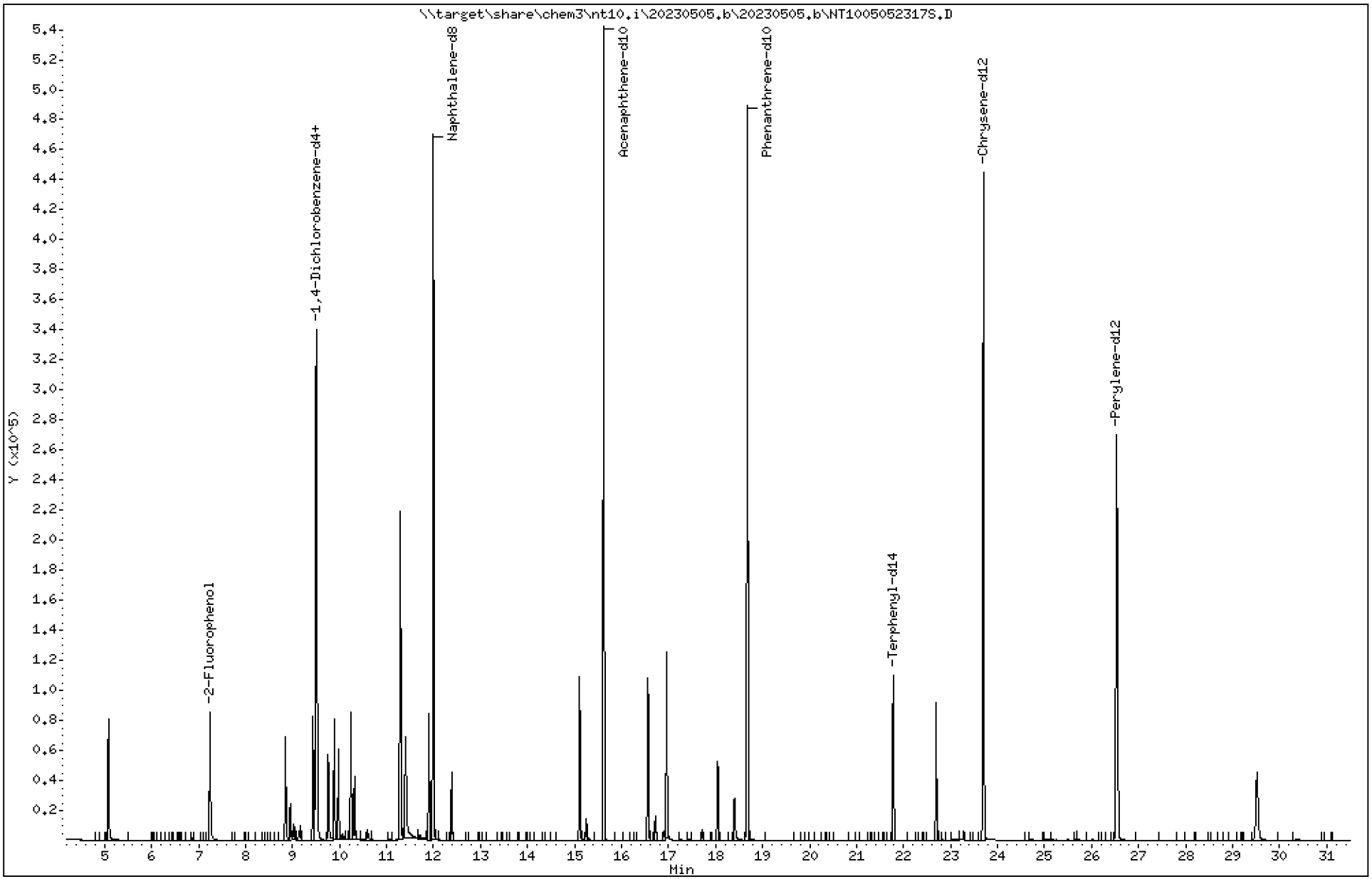
Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1921 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

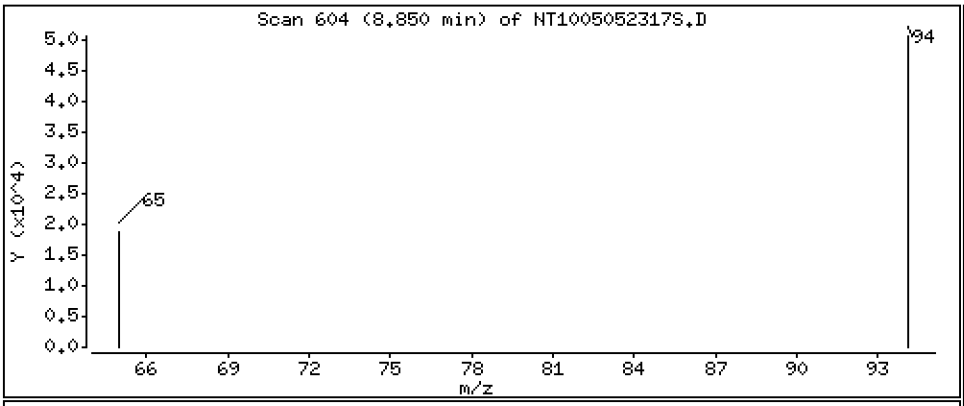
Operator: DSD

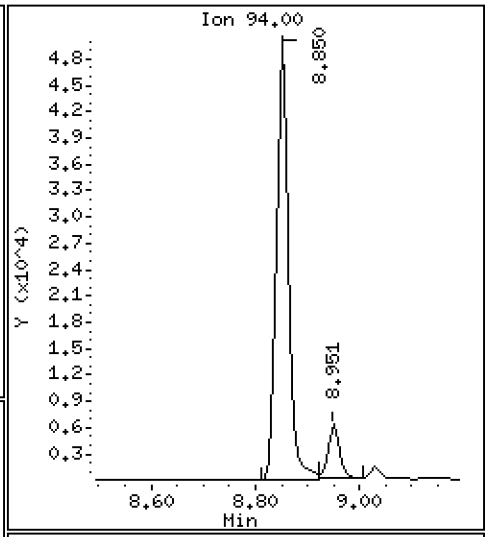
Column phase: ZB-5msi

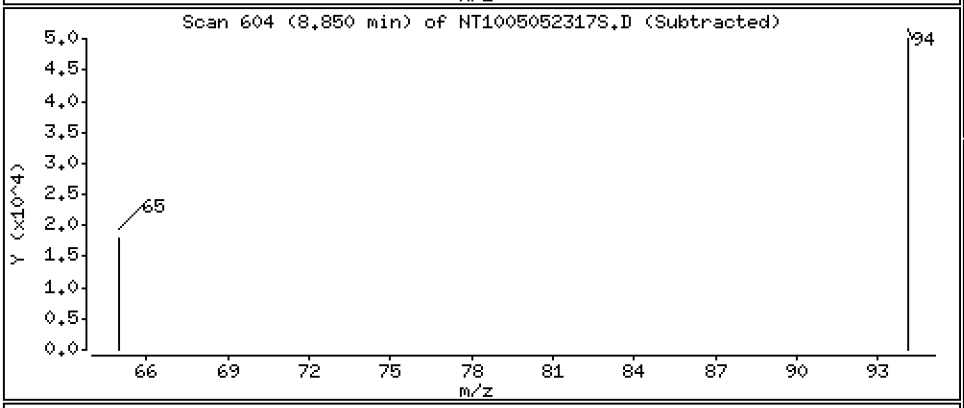
Column diameter: 0.25

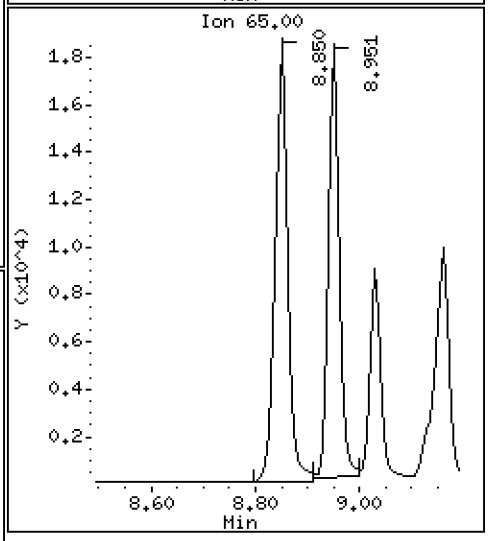
3 Phenol

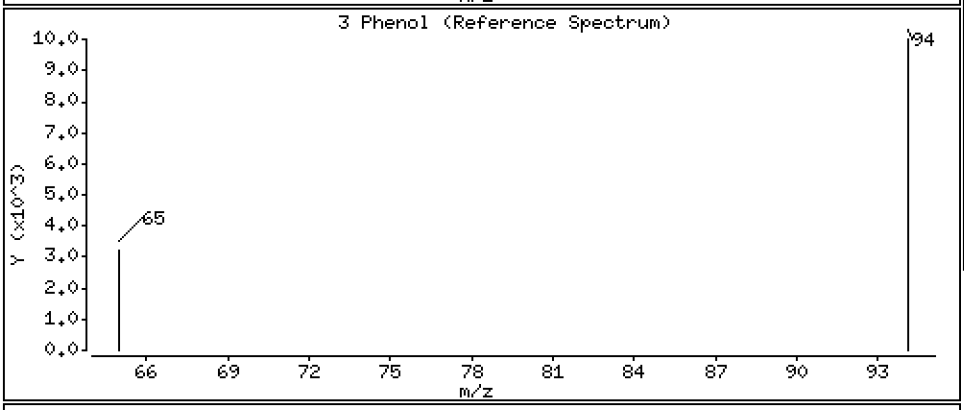
Concentration: 0.9876 ug/L

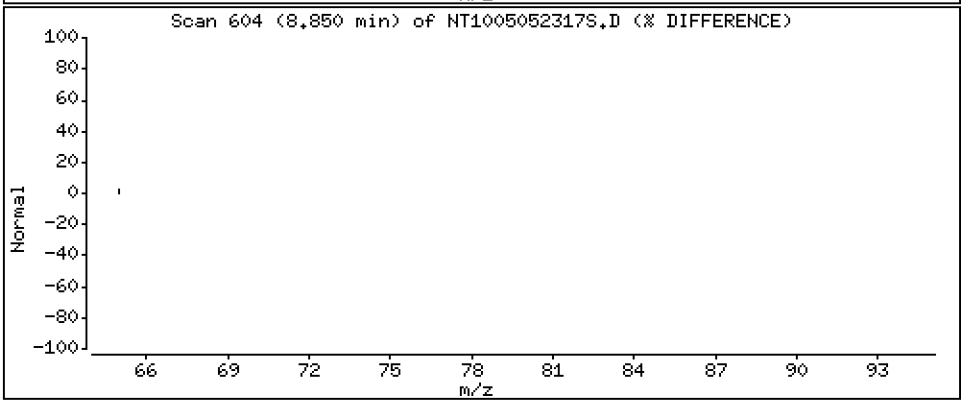












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

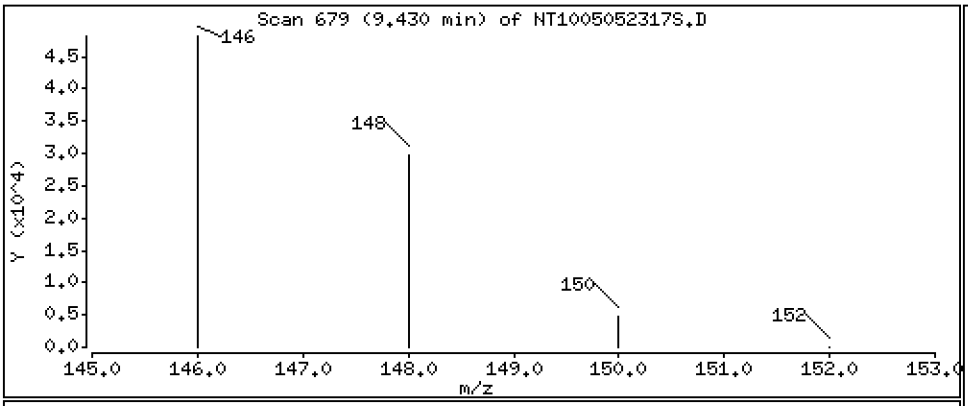
Operator: DSD

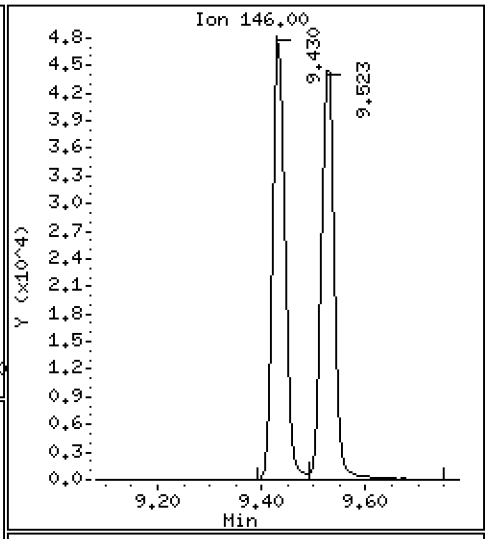
Column phase: ZB-5msi

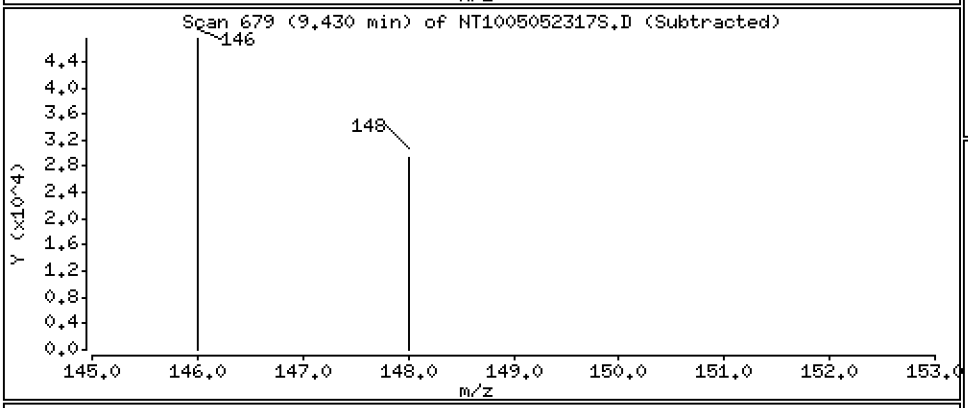
Column diameter: 0.25

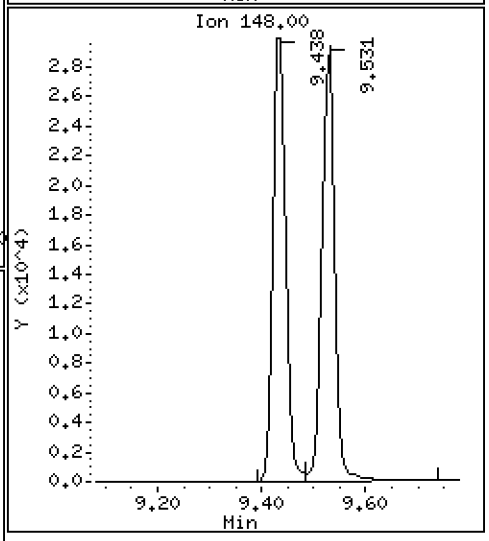
7 1,3-Dichlorobenzene

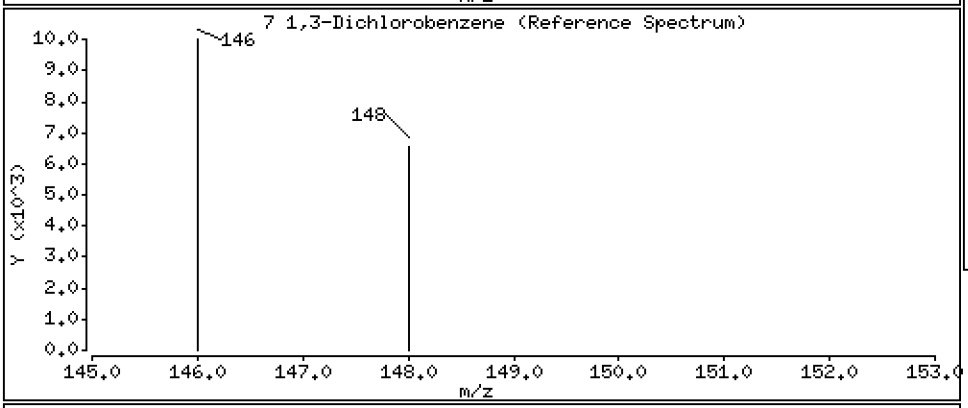
Concentration: 0.9143 ug/L

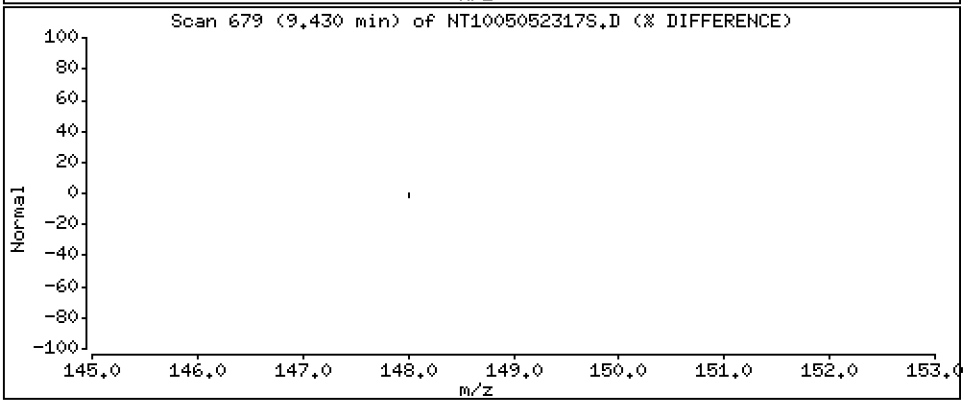












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

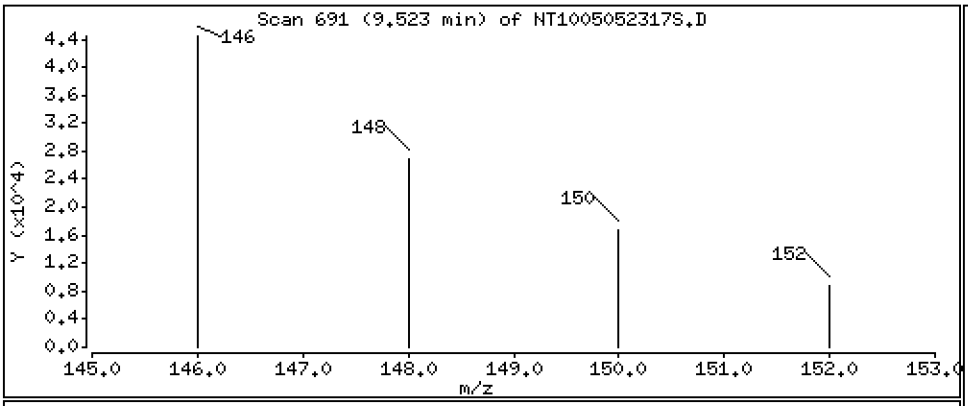
Operator: DSD

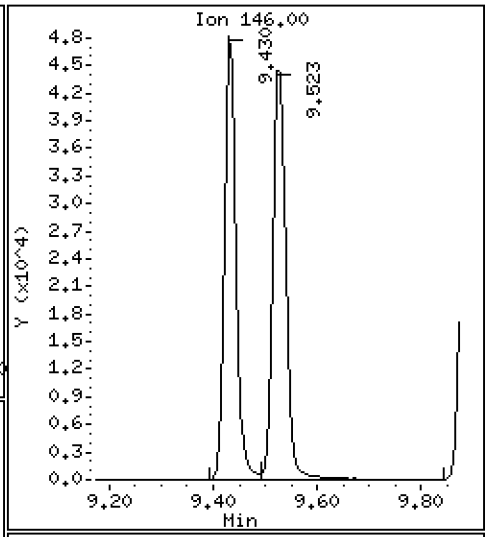
Column phase: ZB-5msi

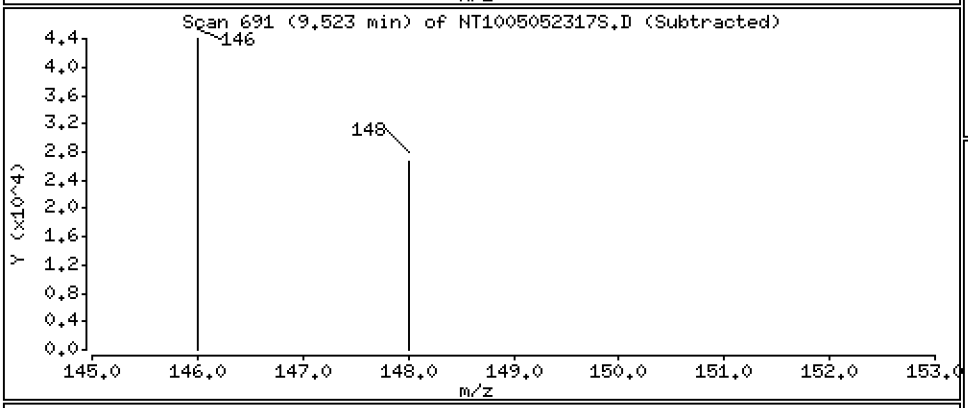
Column diameter: 0.25

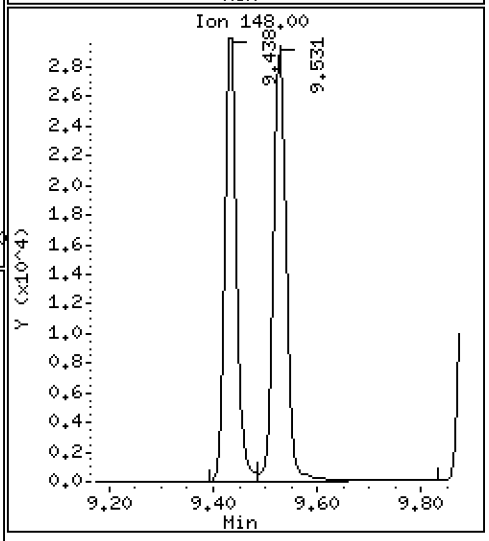
9 1,4-Dichlorobenzene

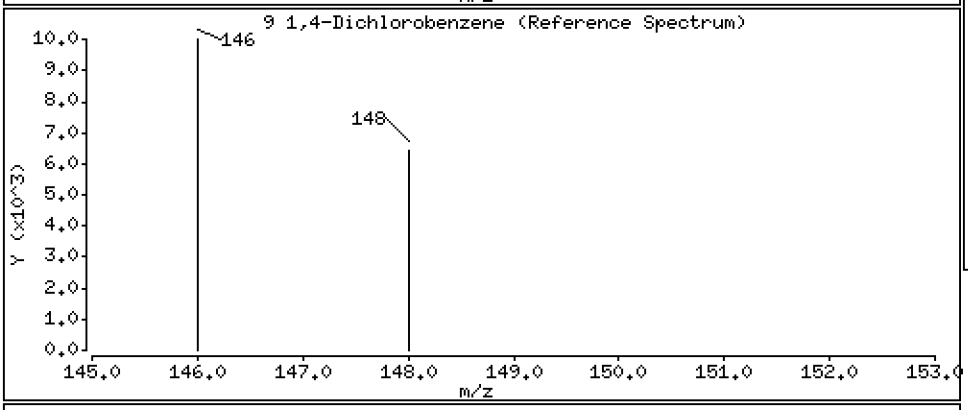
Concentration: 0.8991 ug/L

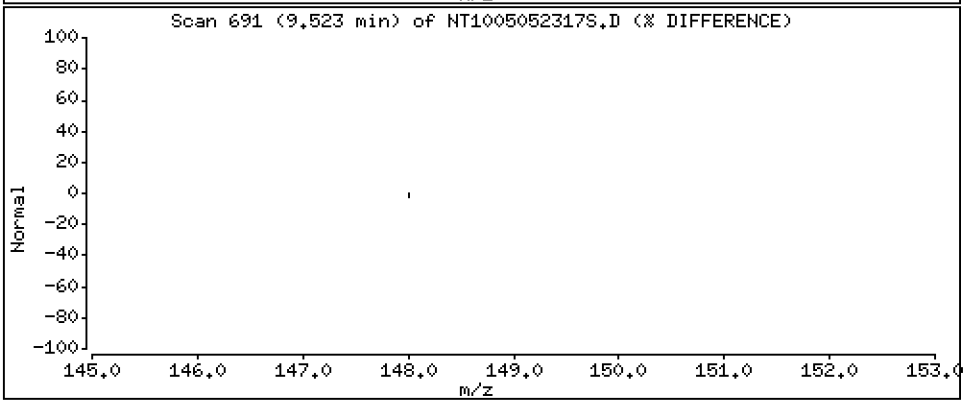












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

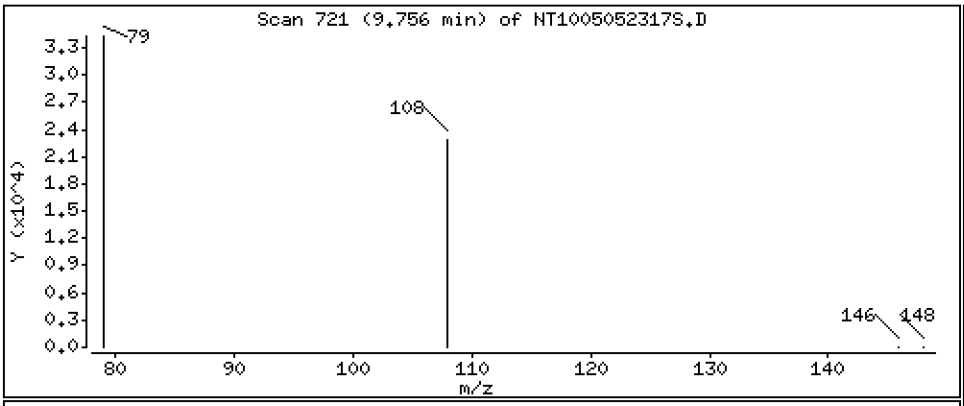
Operator: DSD

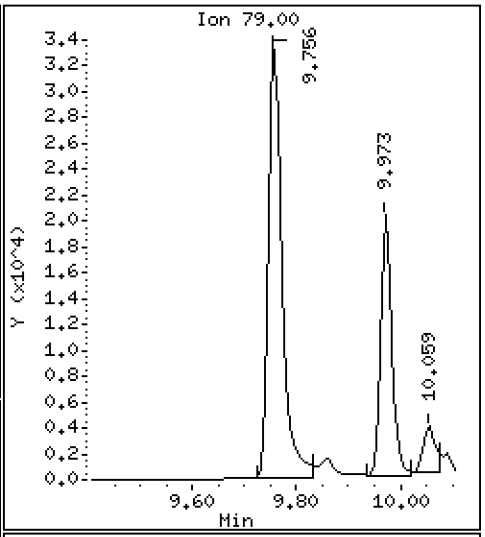
Column phase: ZB-5msi

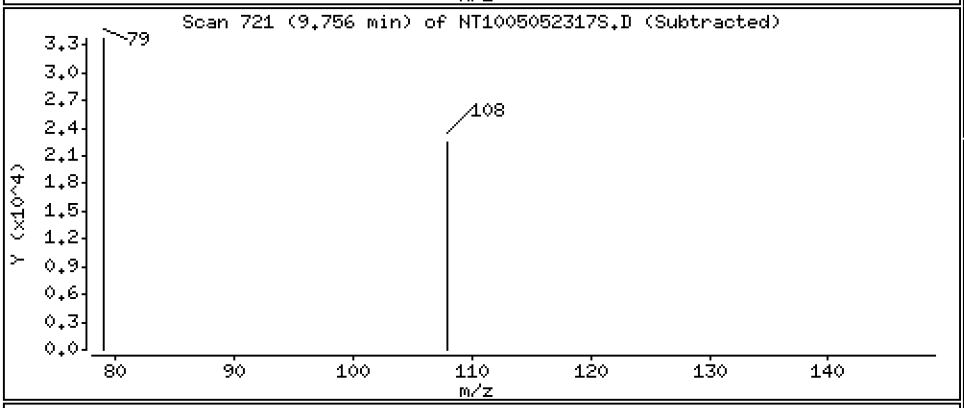
Column diameter: 0.25

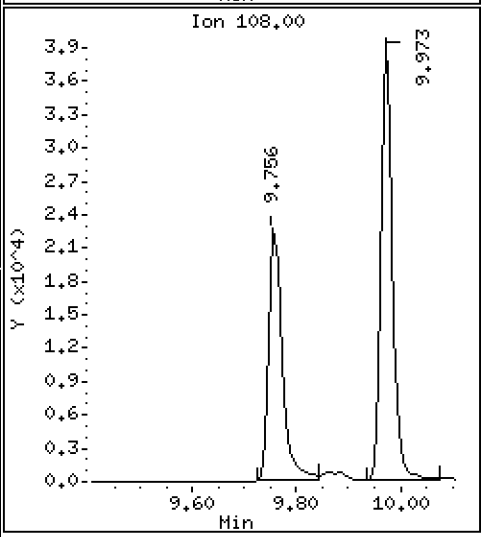
11 Benzyl alcohol

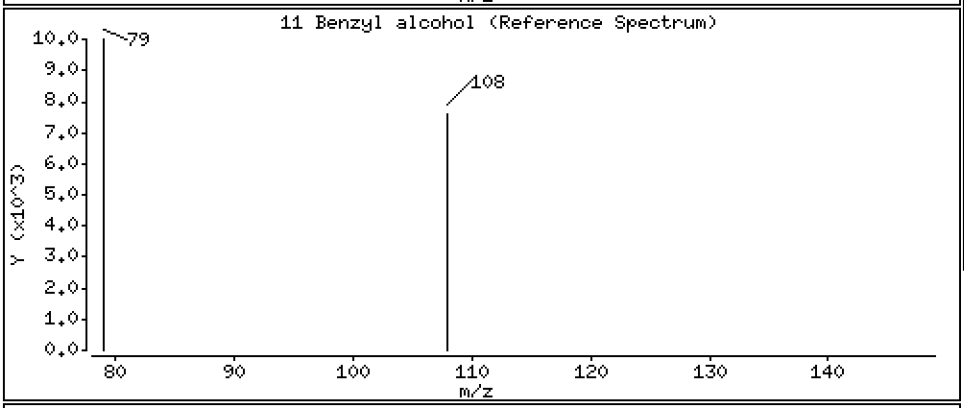
Concentration: 1.046 ug/L

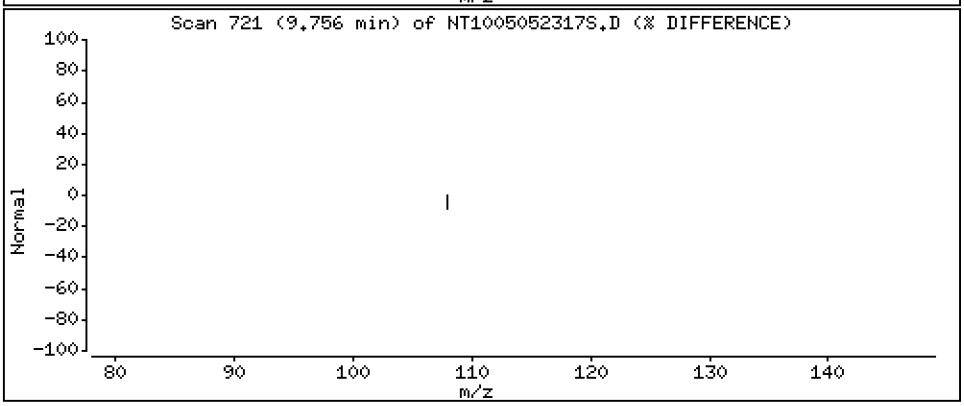












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

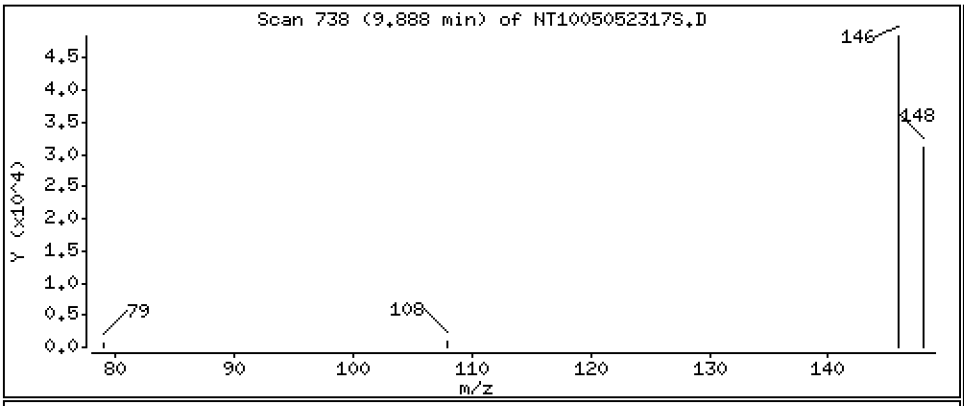
Operator: DSD

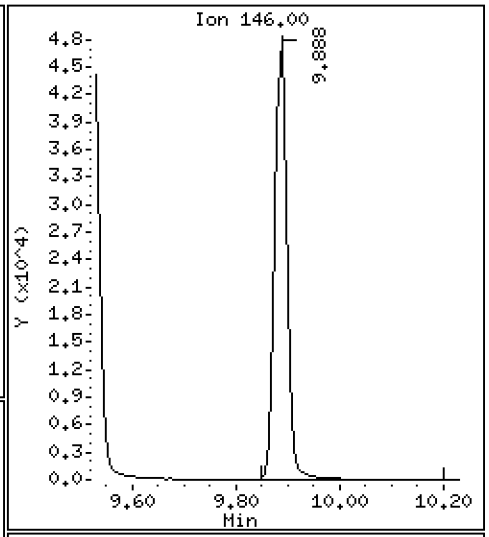
Column phase: ZB-5msi

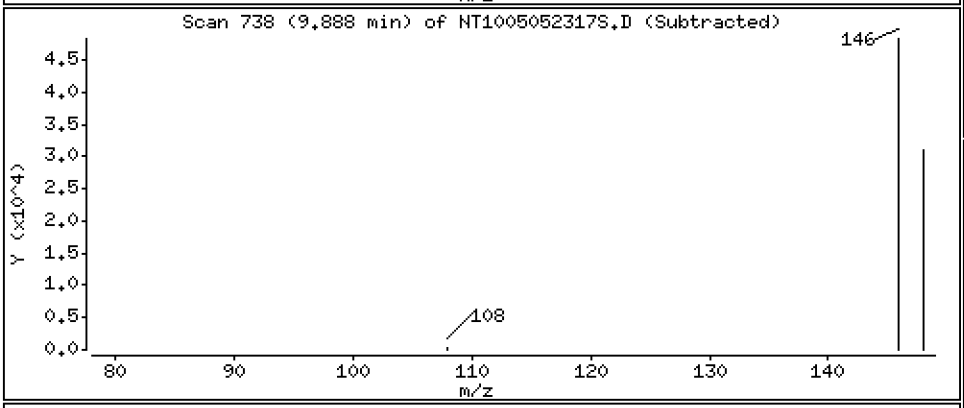
Column diameter: 0.25

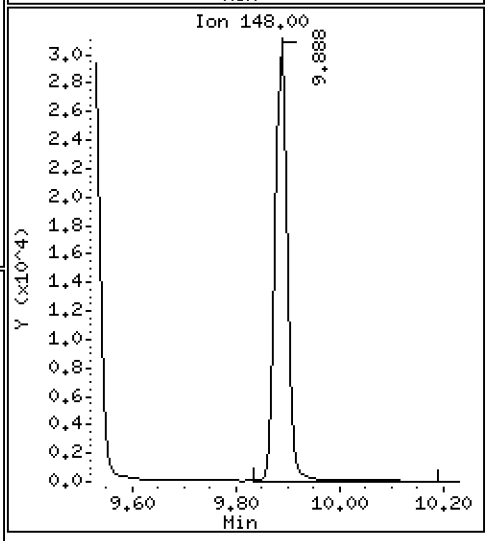
12 1,2-Dichlorobenzene

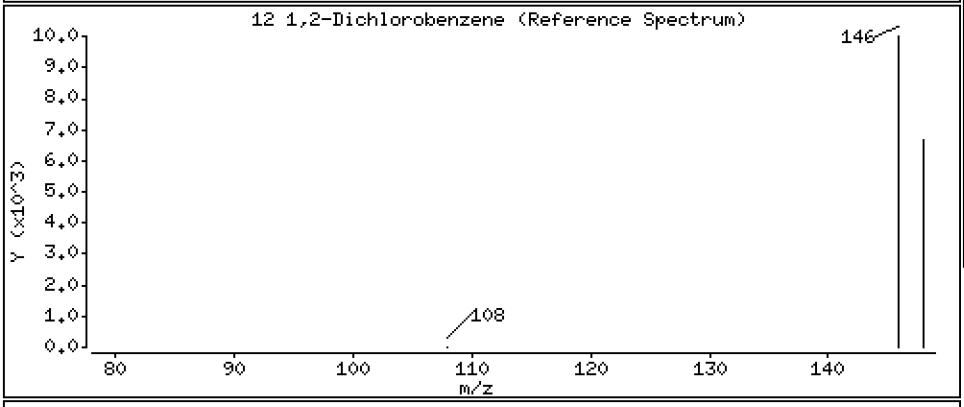
Concentration: 0.9277 ug/L

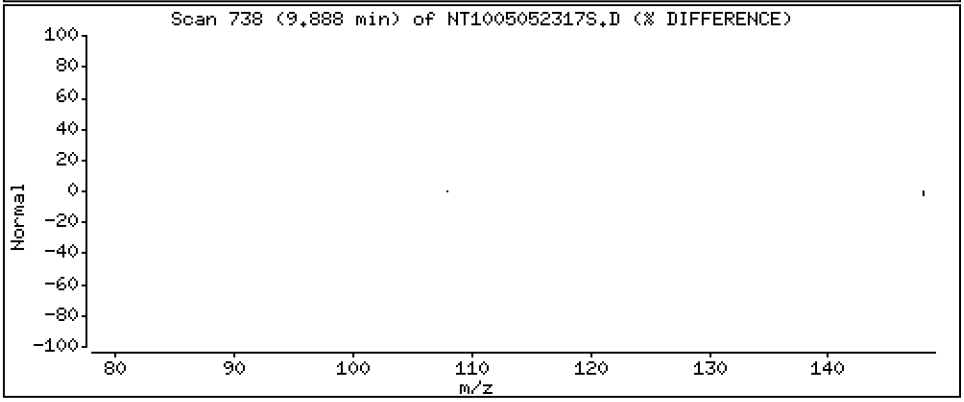












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

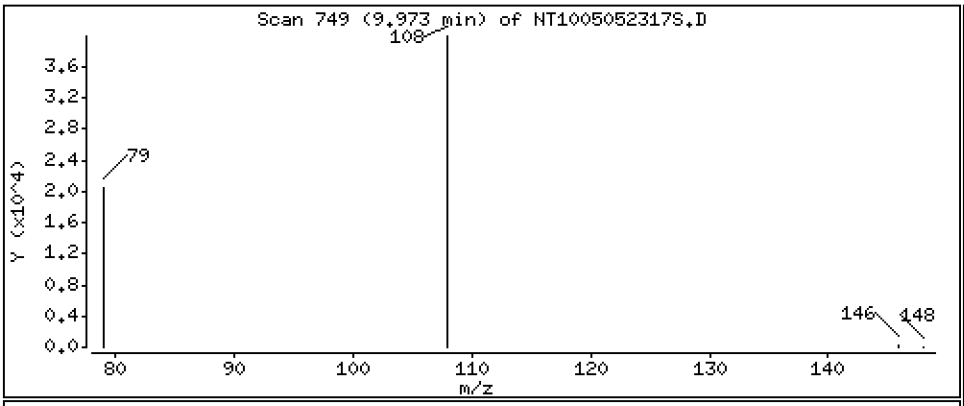
Operator: DSD

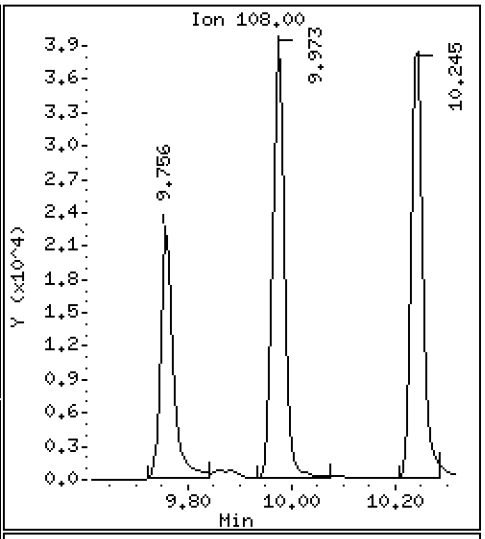
Column phase: ZB-5msi

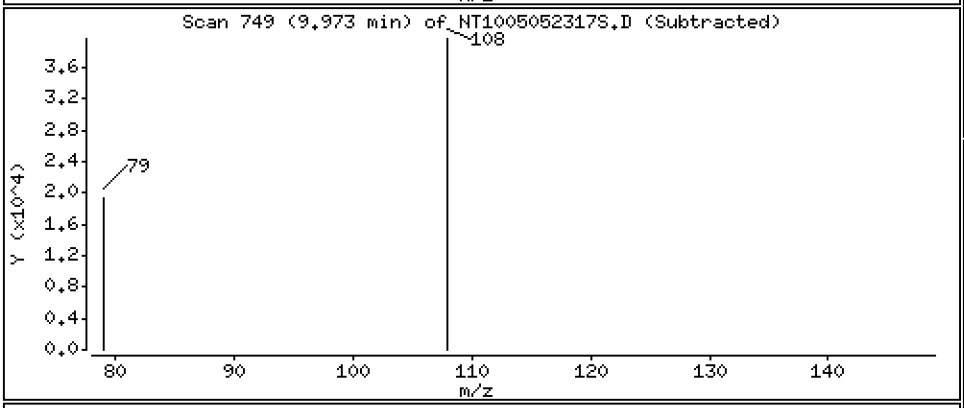
Column diameter: 0.25

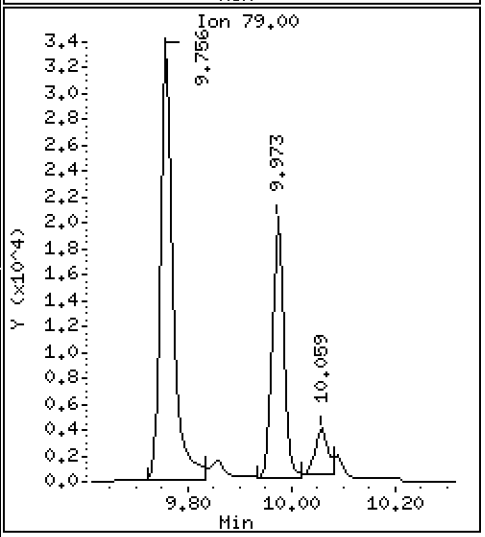
13 2-Methylphenol

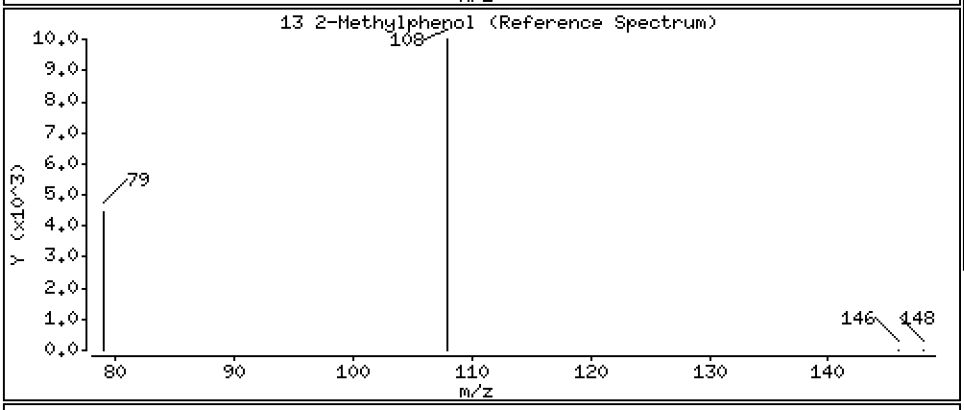
Concentration: 1.021 ug/L

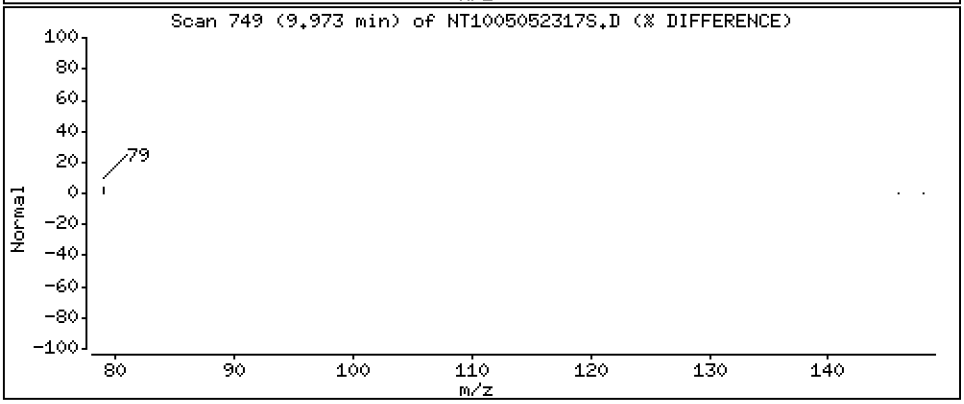












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

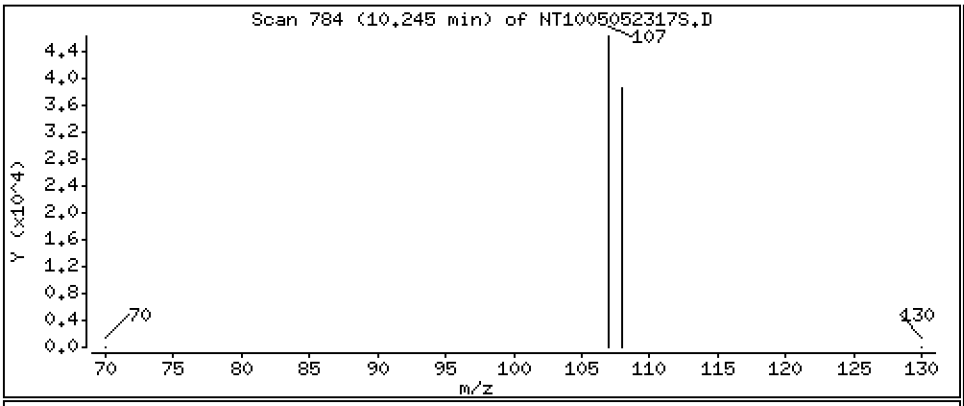
Operator: DSD

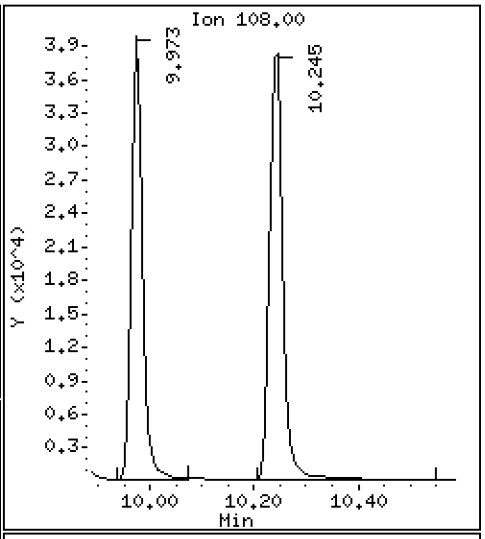
Column phase: ZB-5msi

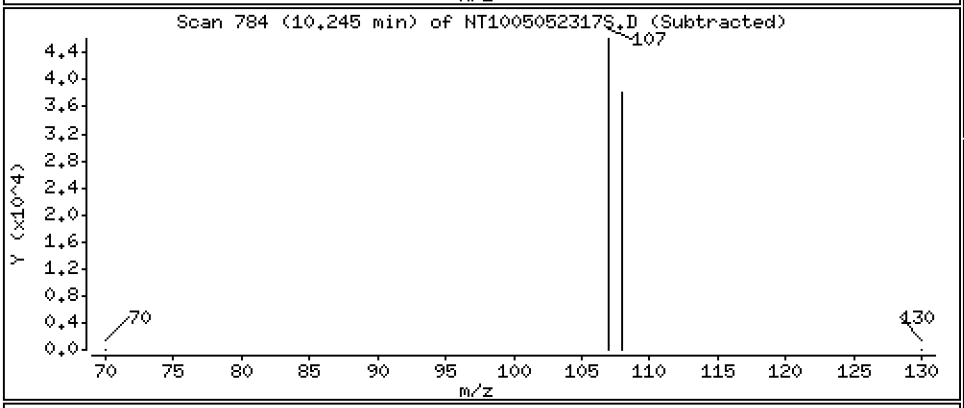
Column diameter: 0.25

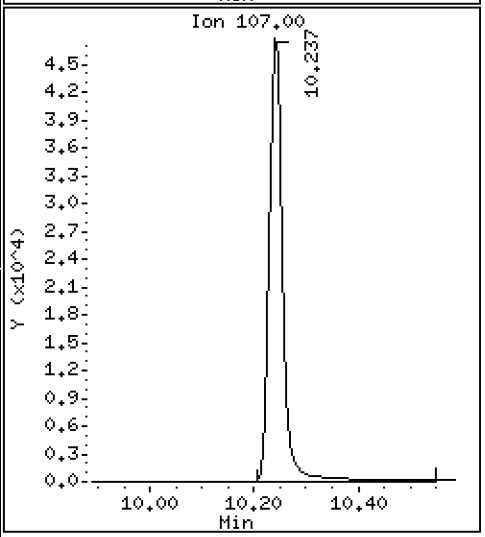
15 4-Methylphenol

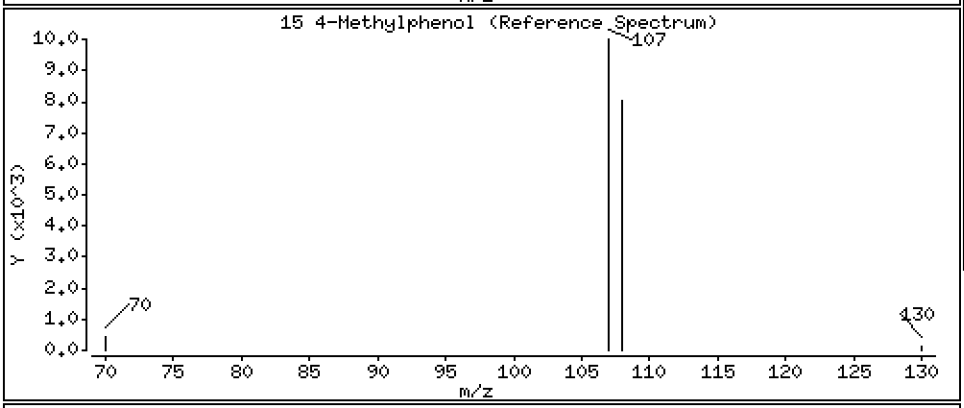
Concentration: 1.048 ug/L

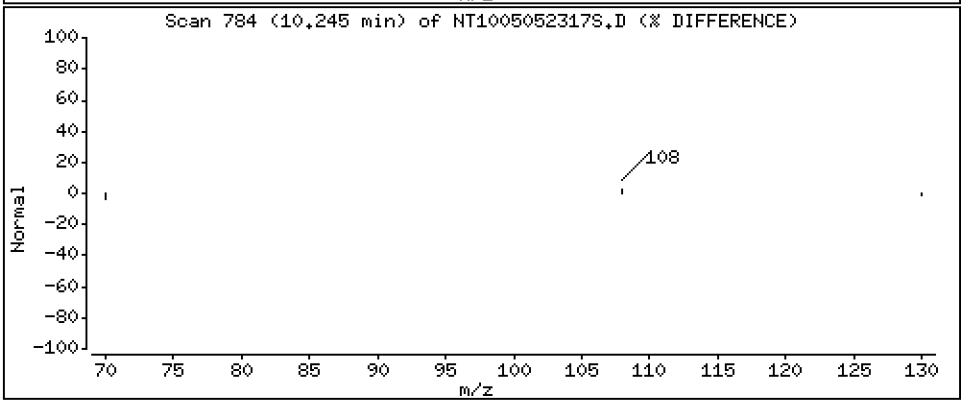












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

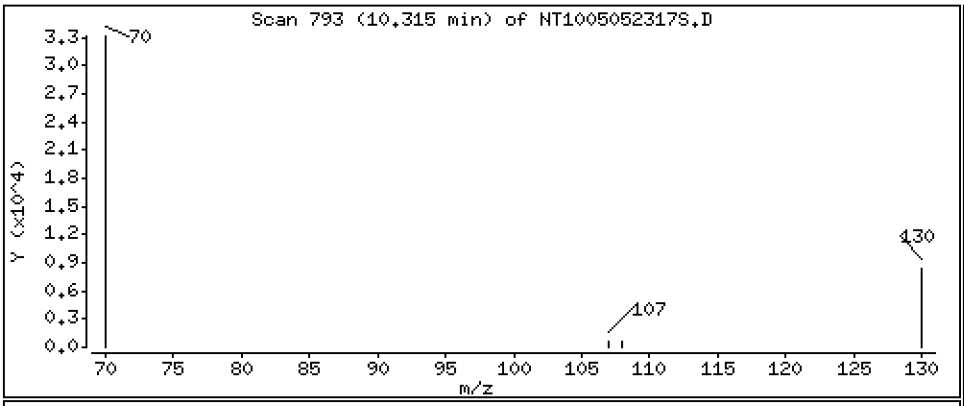
Operator: DSD

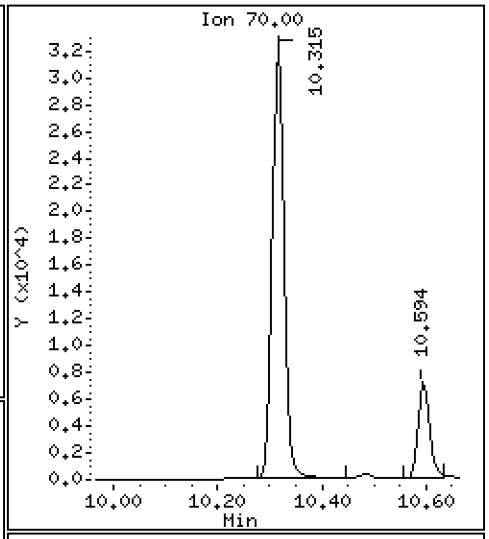
Column phase: ZB-5msi

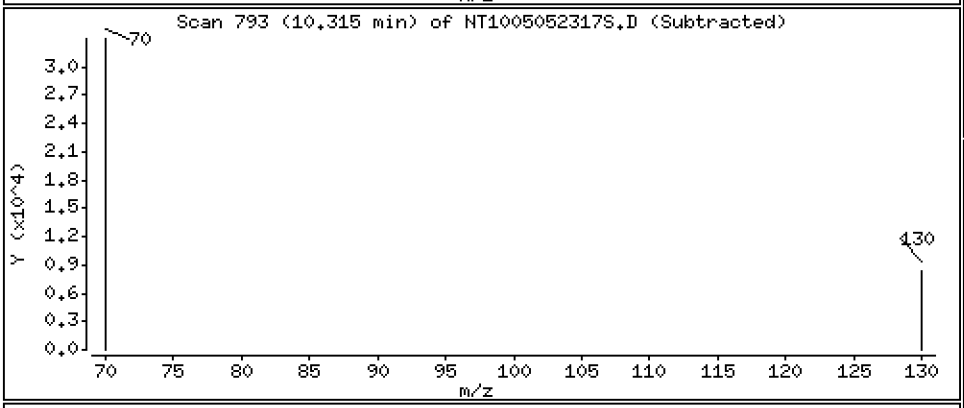
Column diameter: 0.25

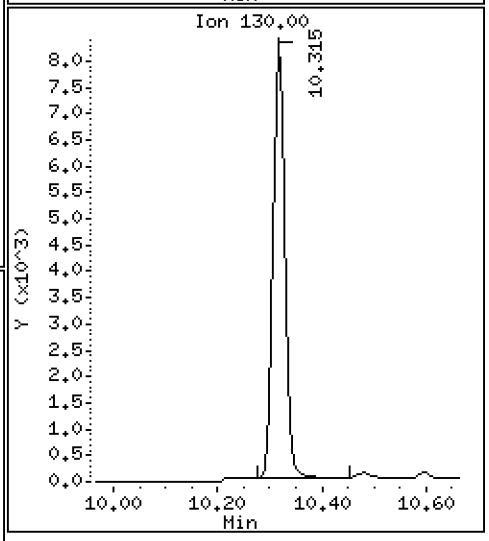
16 N-Nitroso-di-n-propylamine

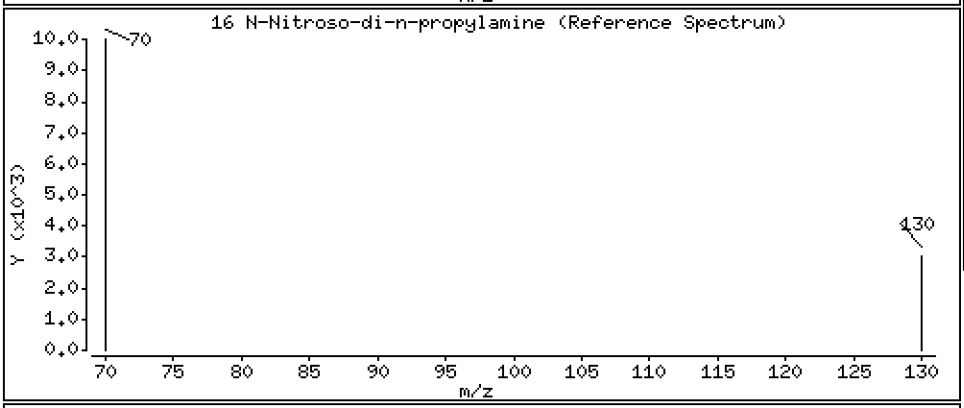
Concentration: 1.064 ug/L

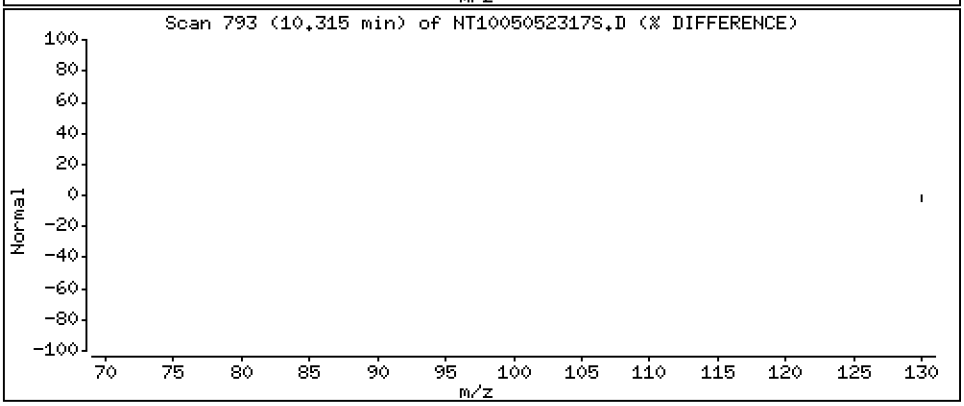












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

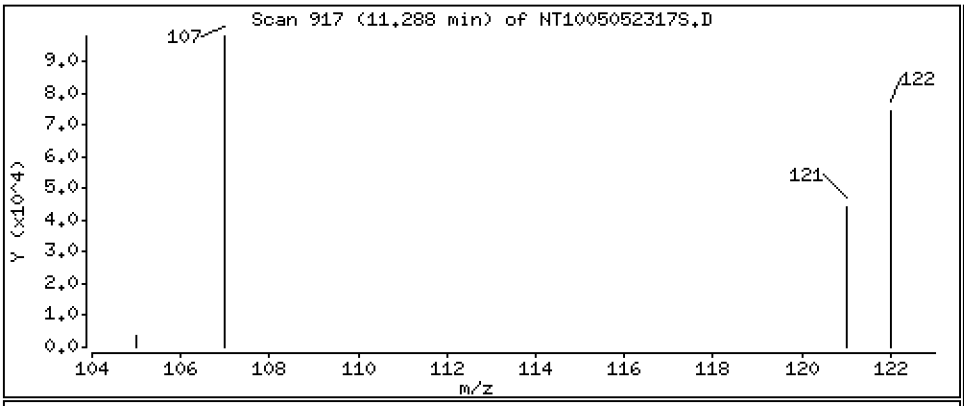
Operator: DSD

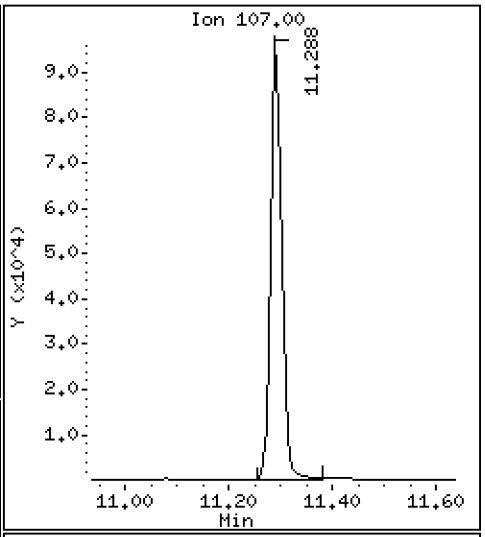
Column phase: ZB-5msi

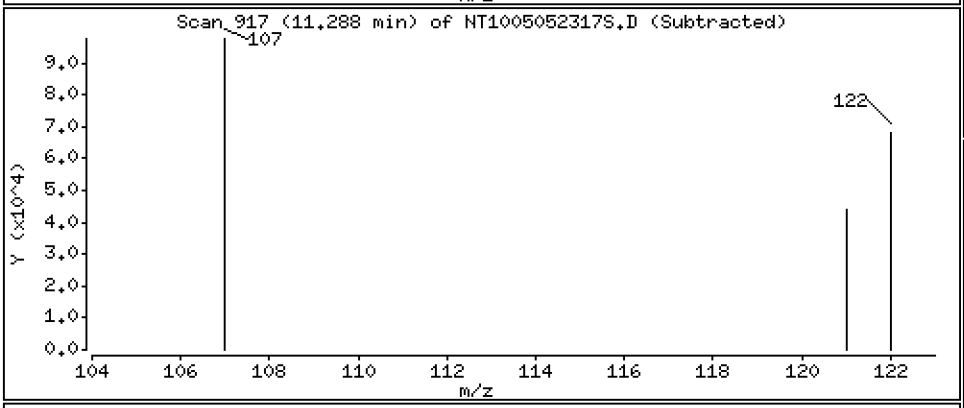
Column diameter: 0.25

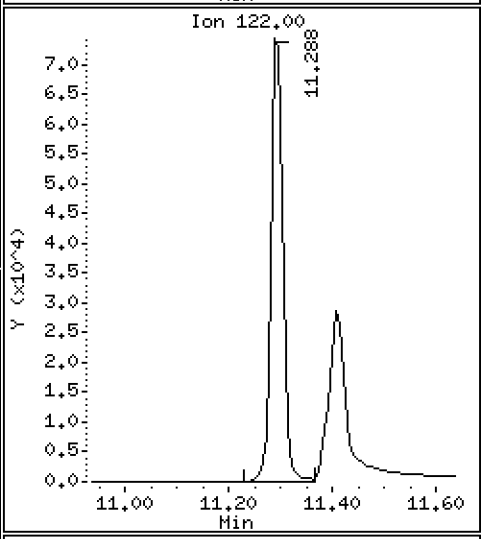
22 2,4-Dimethylphenol

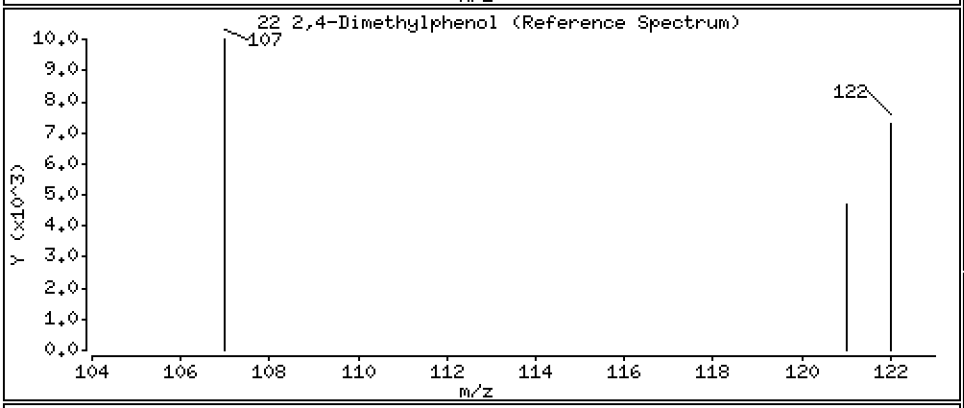
Concentration: 1.965 ug/L

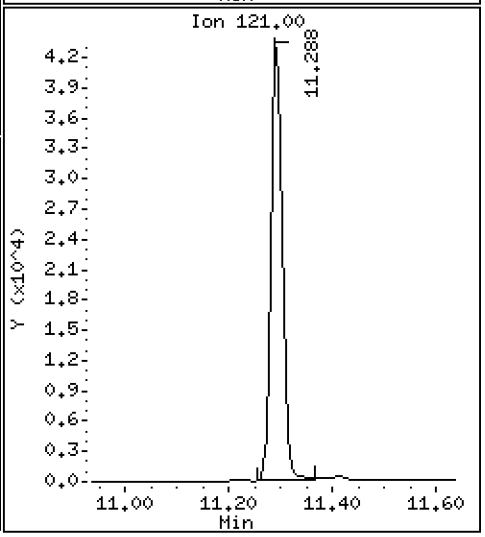


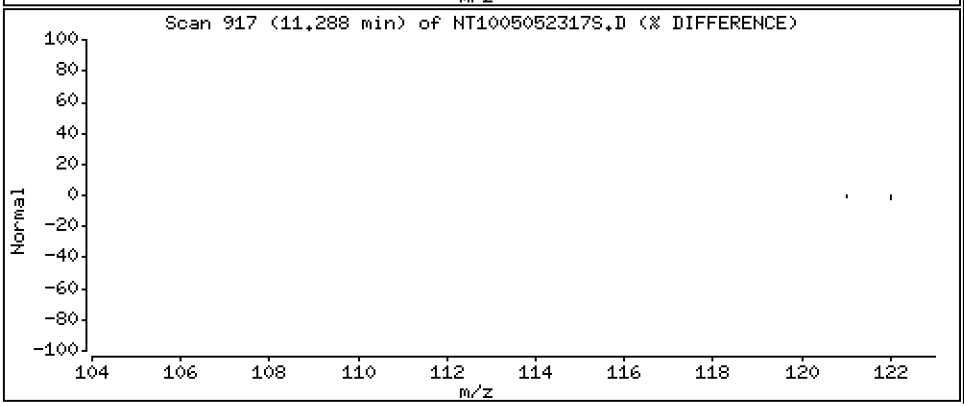












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Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

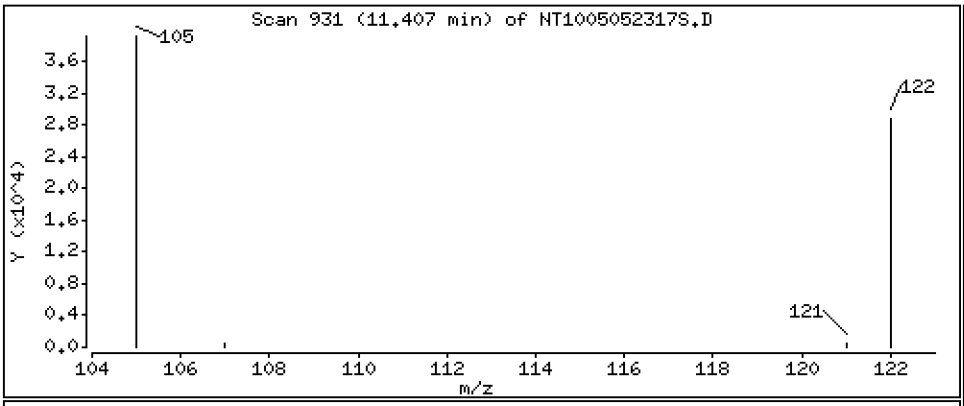
Operator: DSD

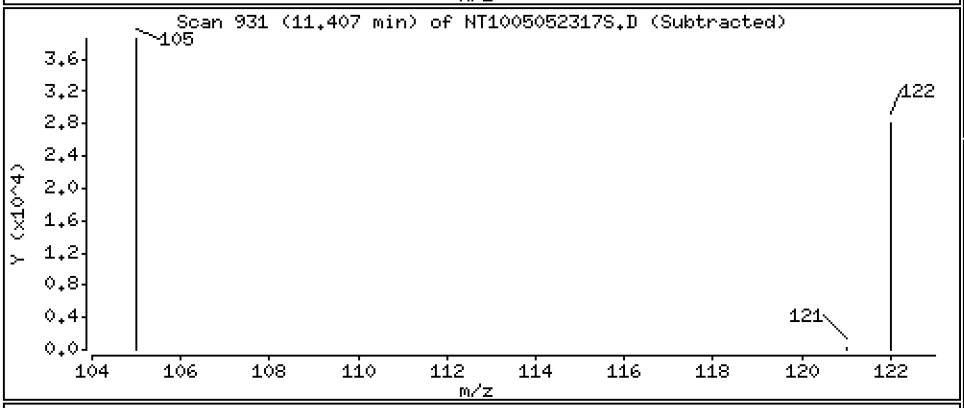
Column phase: ZB-5msi

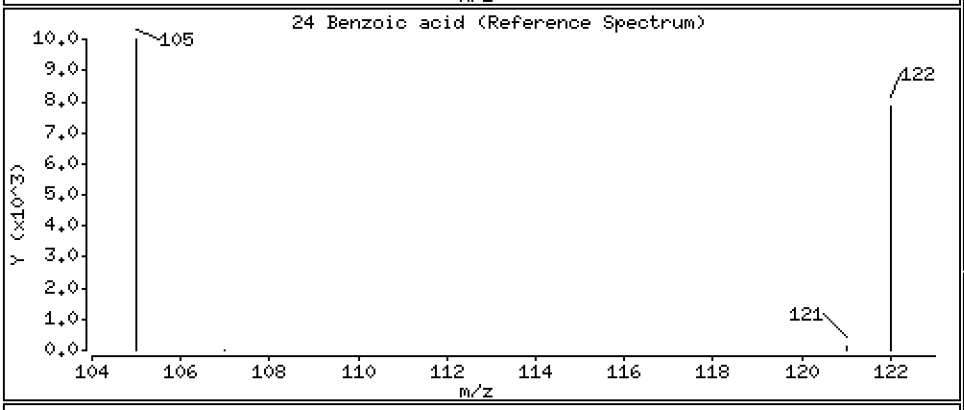
Column diameter: 0.25

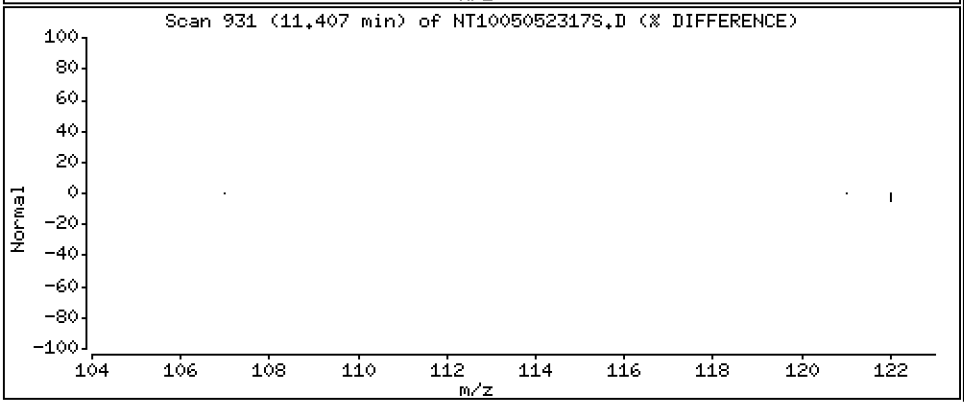
24 Benzoic acid

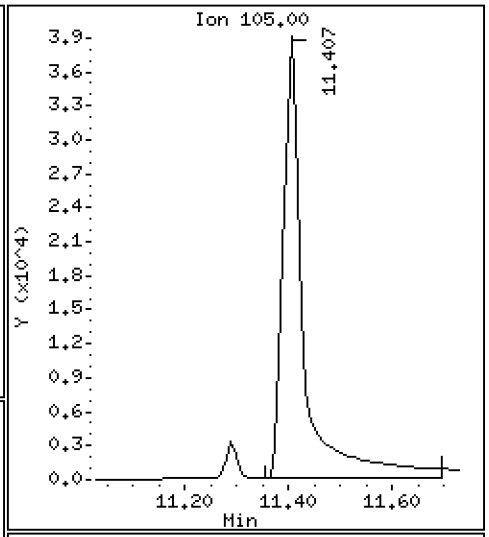
Concentration: 2.215 ug/L

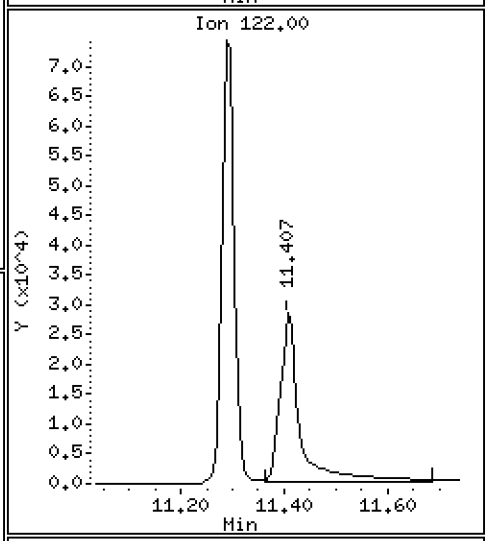


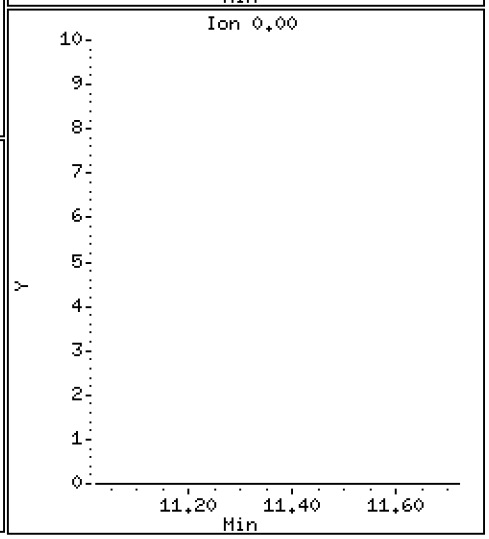












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

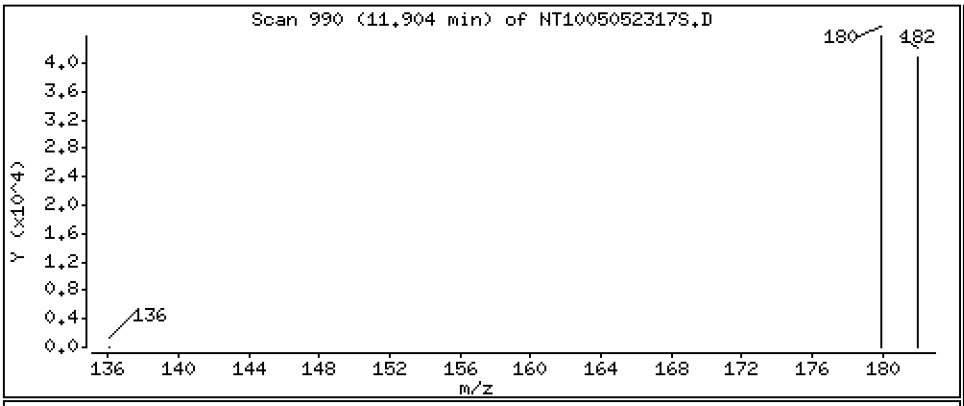
Operator: DSD

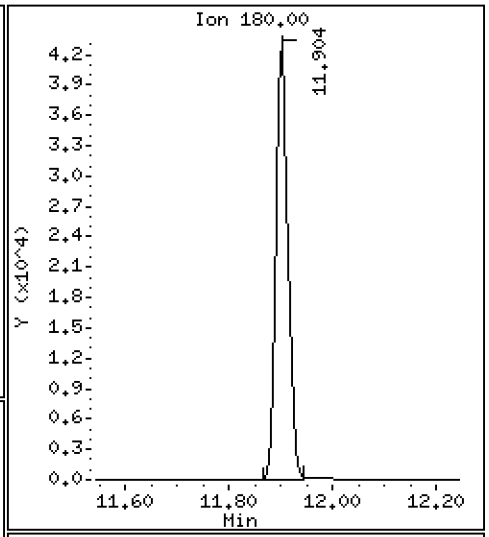
Column phase: ZB-5msi

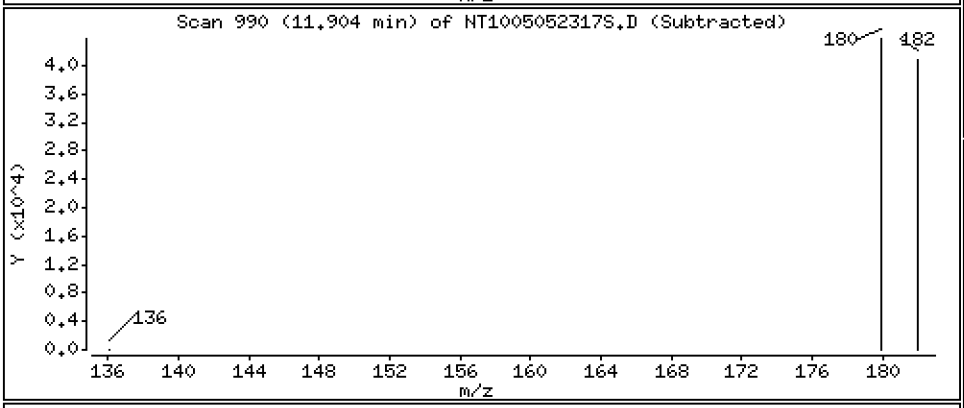
Column diameter: 0.25

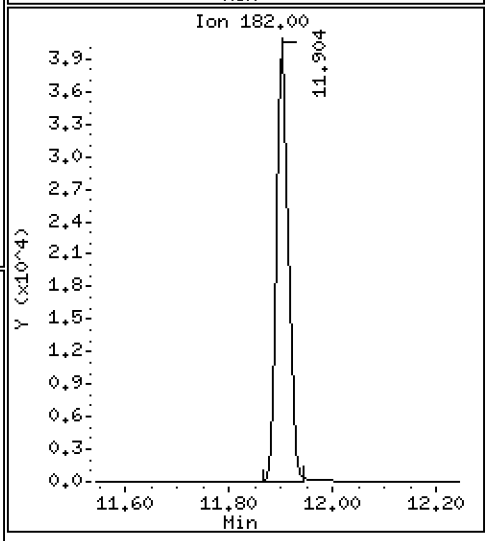
26 1,2,4-Trichlorobenzene

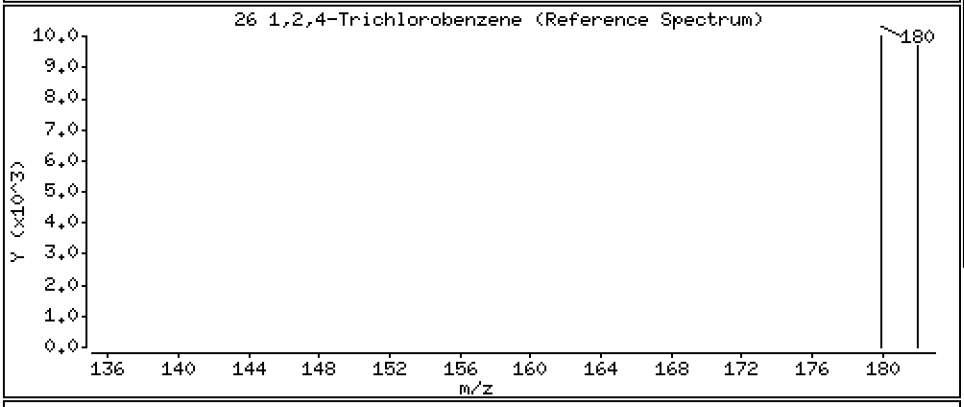
Concentration: 0.8764 ug/L

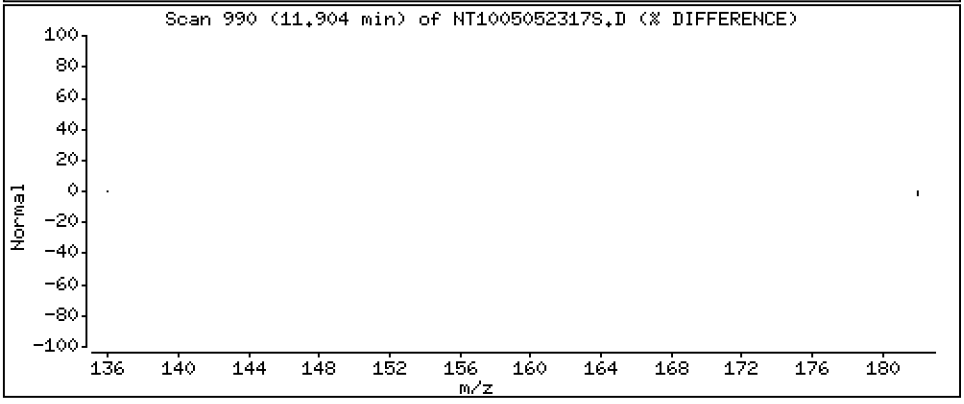












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

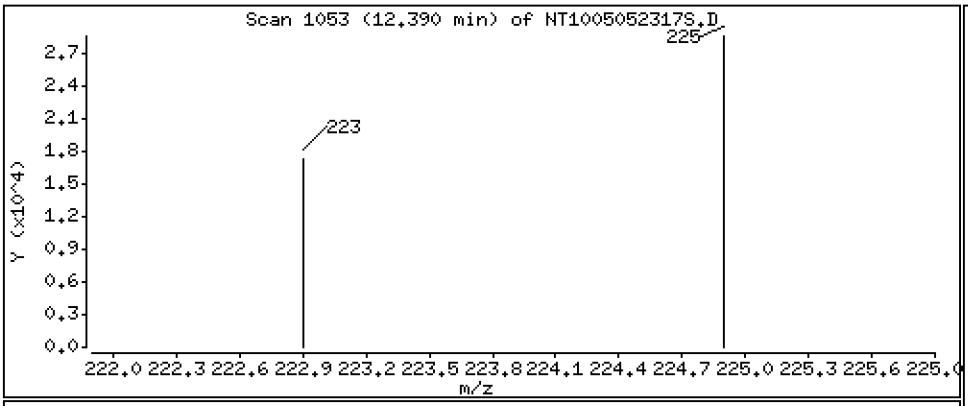
Operator: DSD

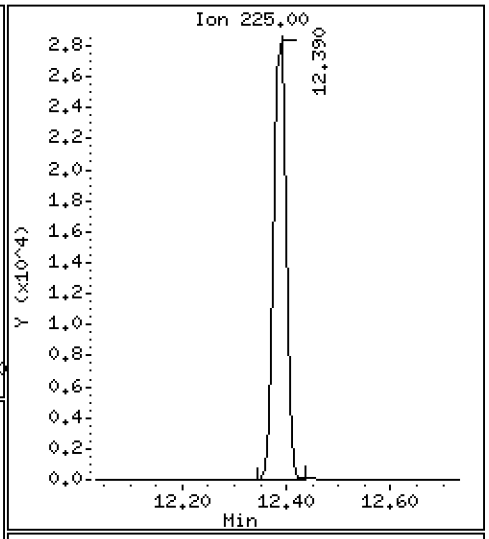
Column phase: ZB-5msi

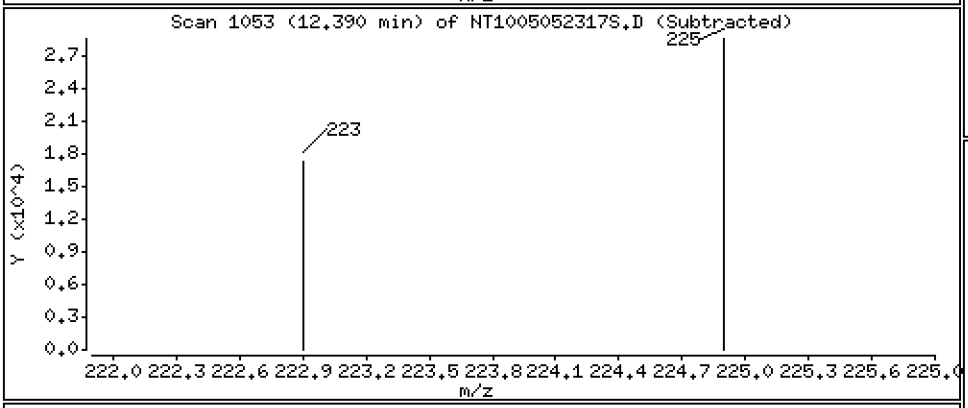
Column diameter: 0.25

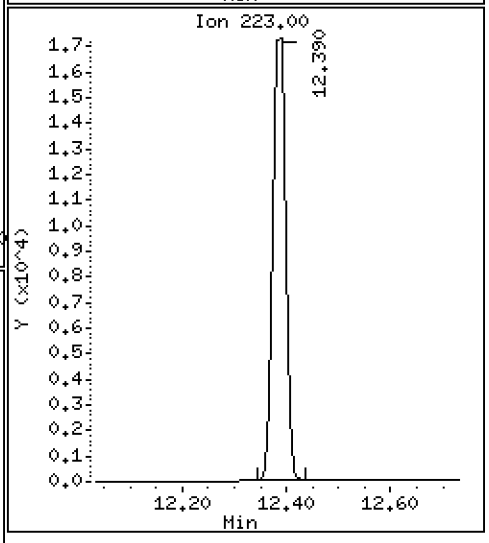
30 Hexachlorobutadiene

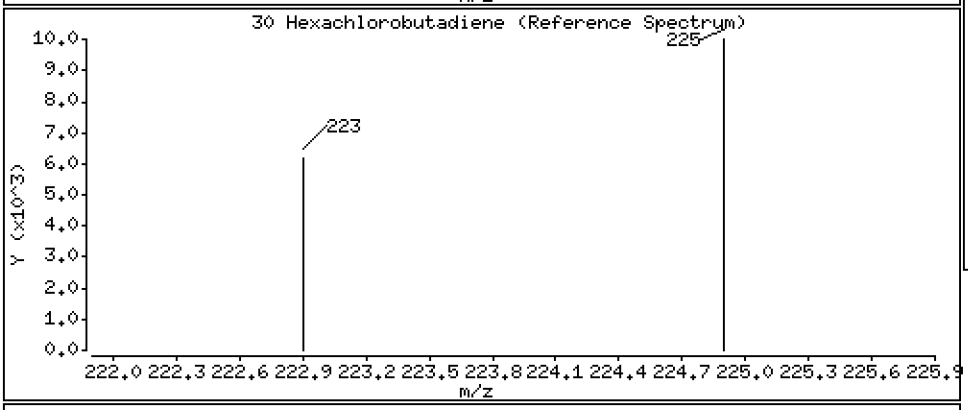
Concentration: 0.8994 ug/L

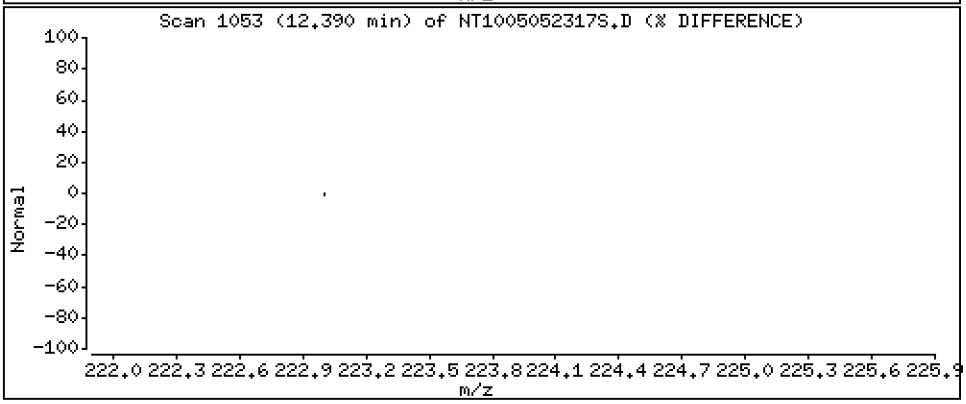












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

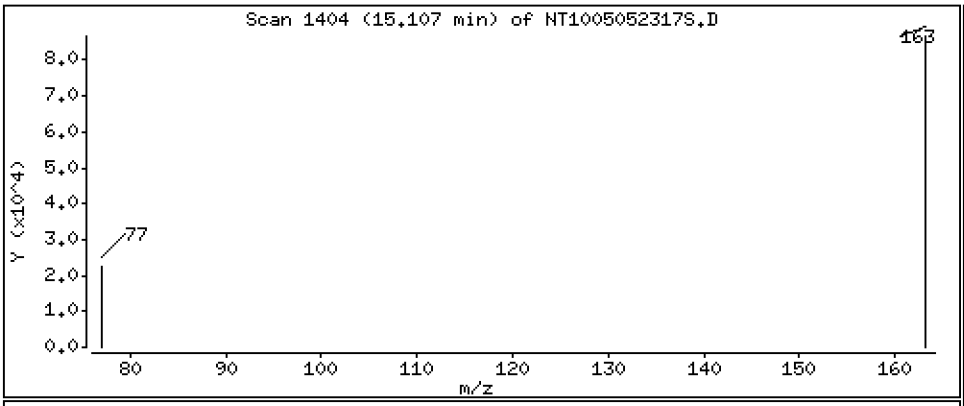
Operator: DSD

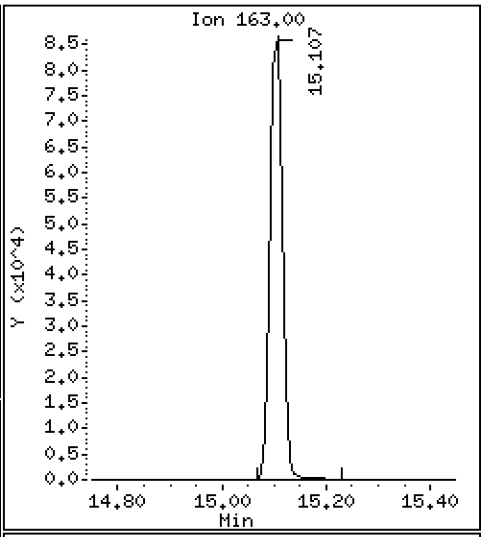
Column phase: ZB-5msi

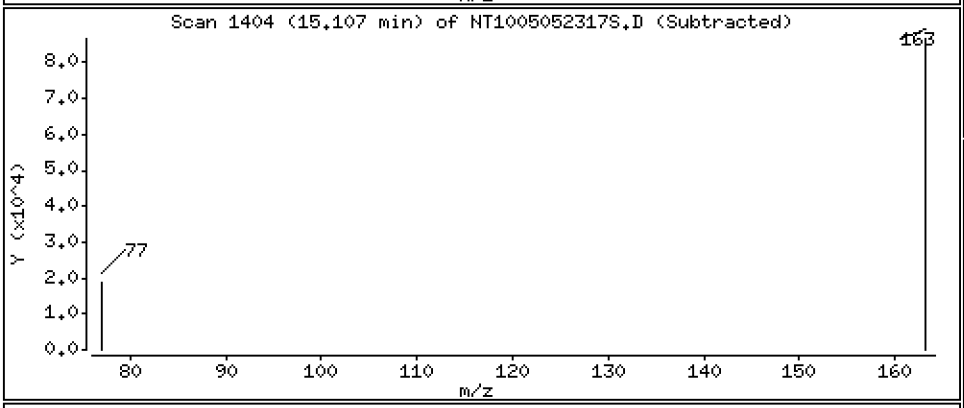
Column diameter: 0.25

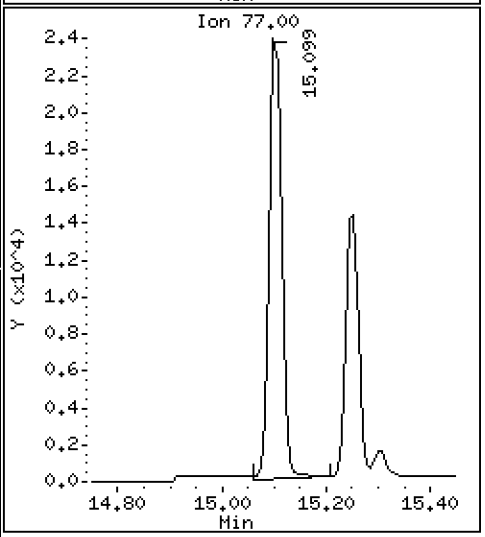
39 Dimethylphthalate

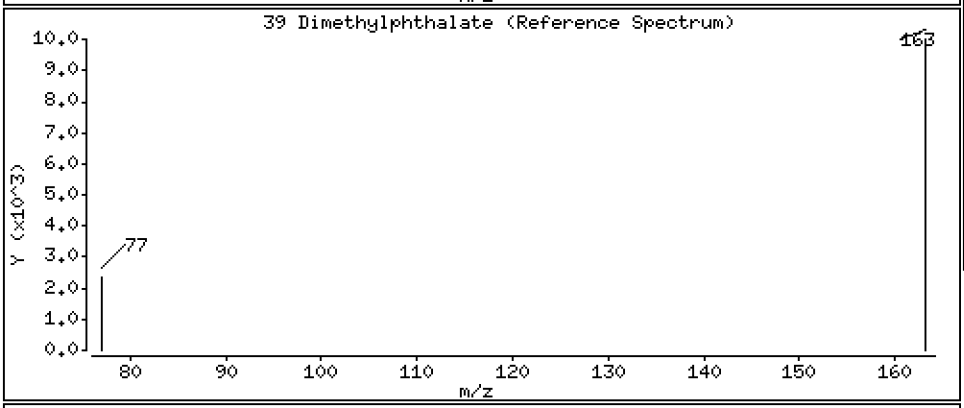
Concentration: 0.9147 ug/L

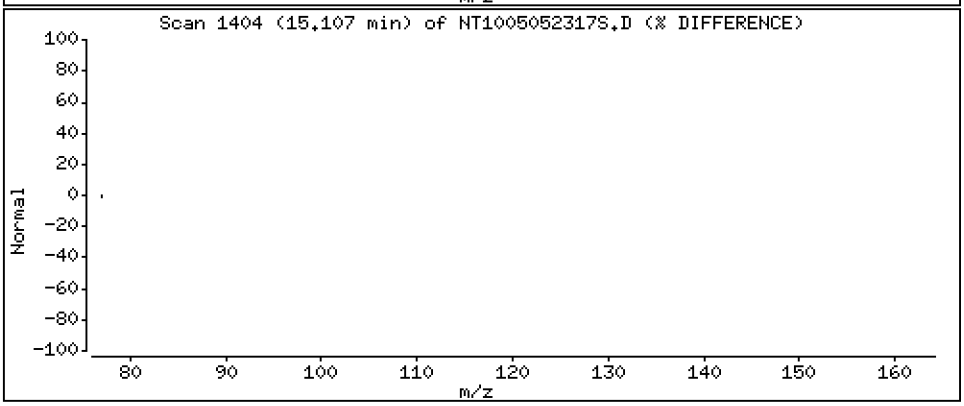












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

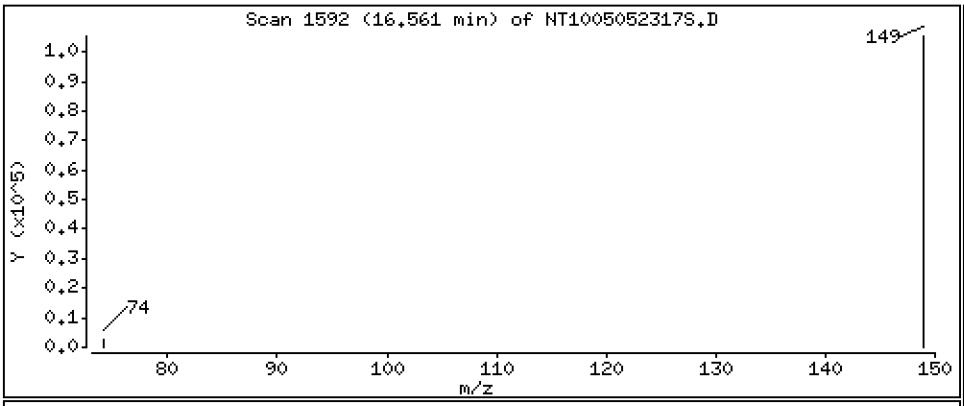
Operator: DSD

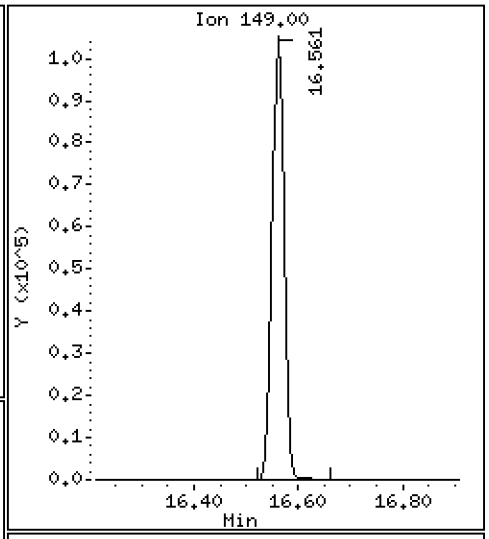
Column phase: ZB-5msi

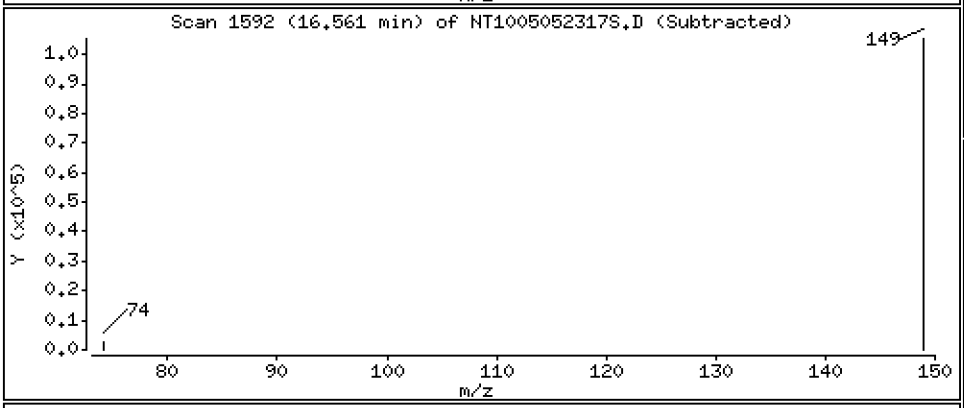
Column diameter: 0.25

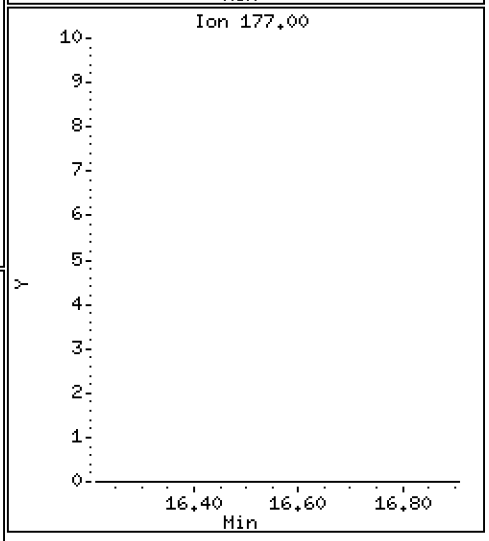
50 Diethylphthalate

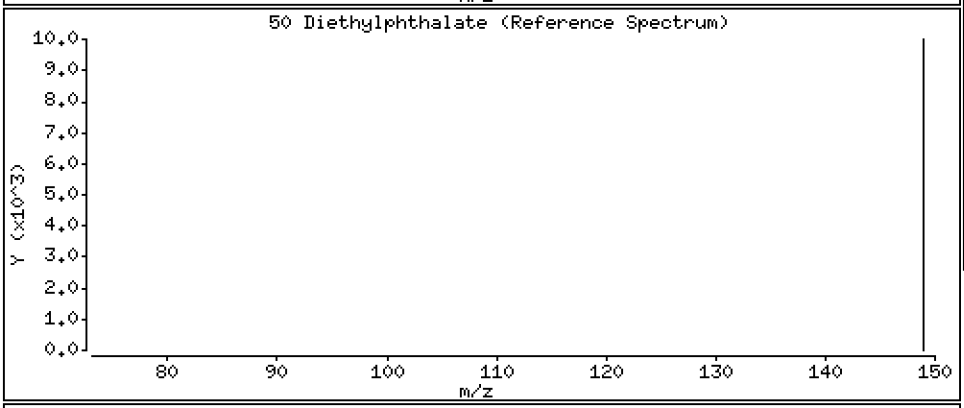
Concentration: 1.004 ug/L

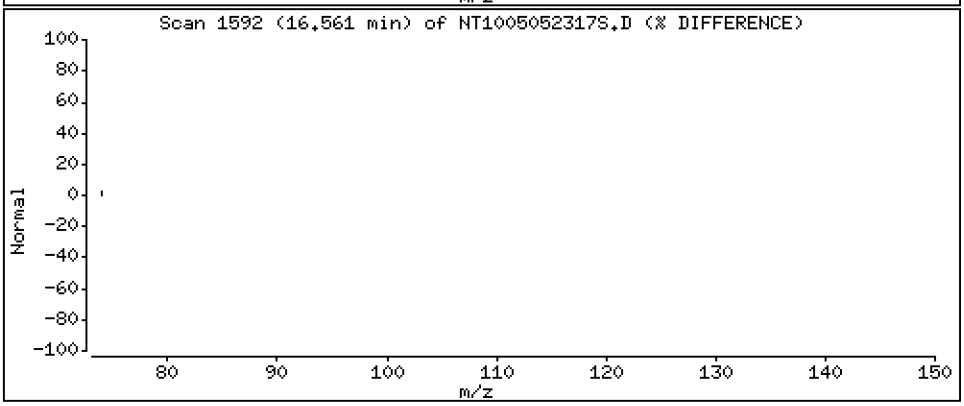












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

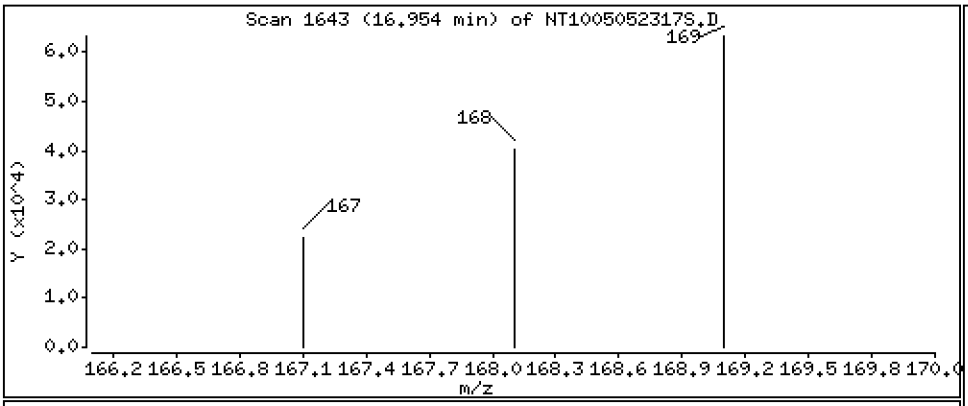
Operator: DSD

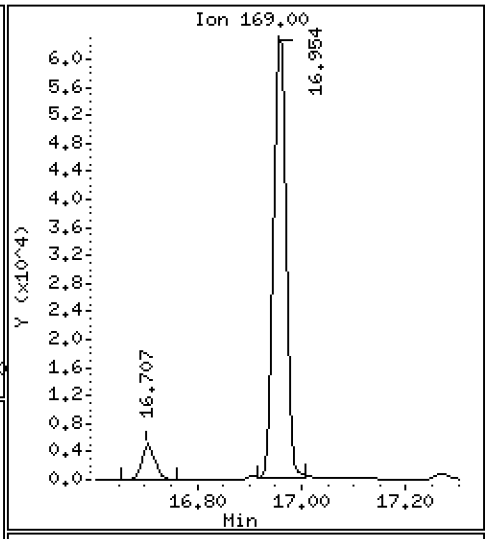
Column phase: ZB-5msi

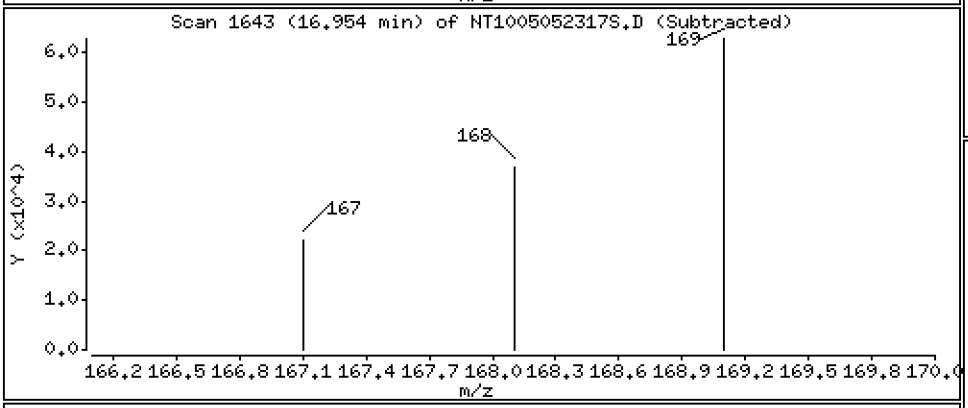
Column diameter: 0.25

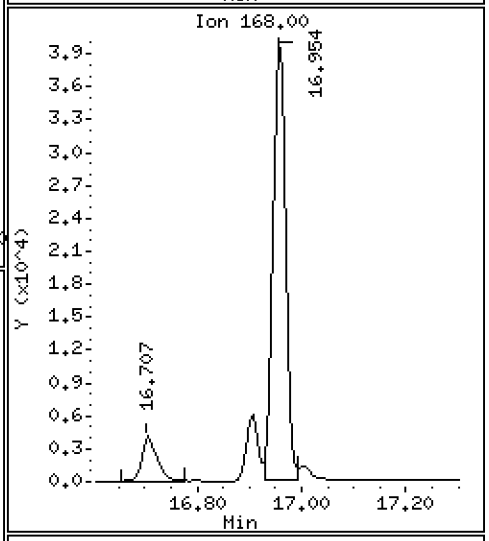
54 N-Nitrosodiphenylamine

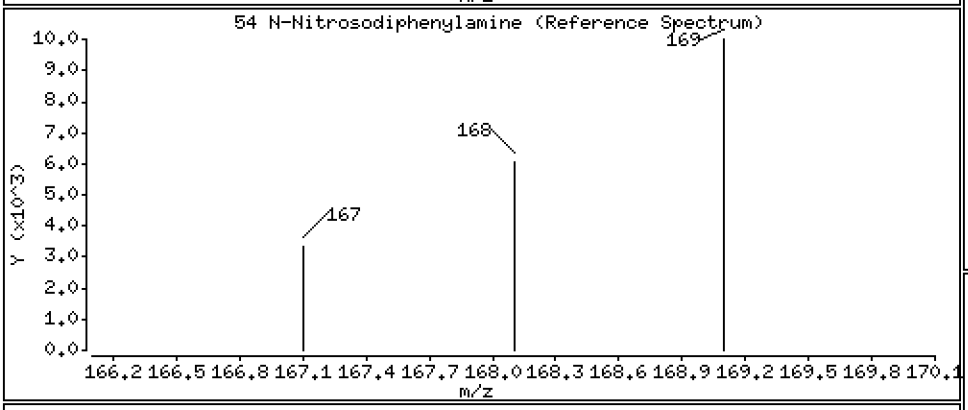
Concentration: 0.9353 ug/L

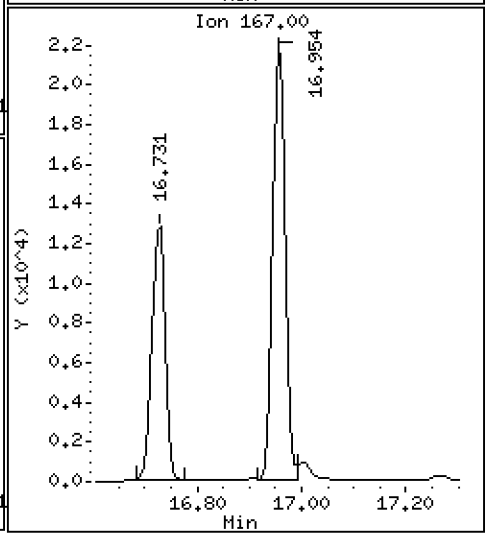


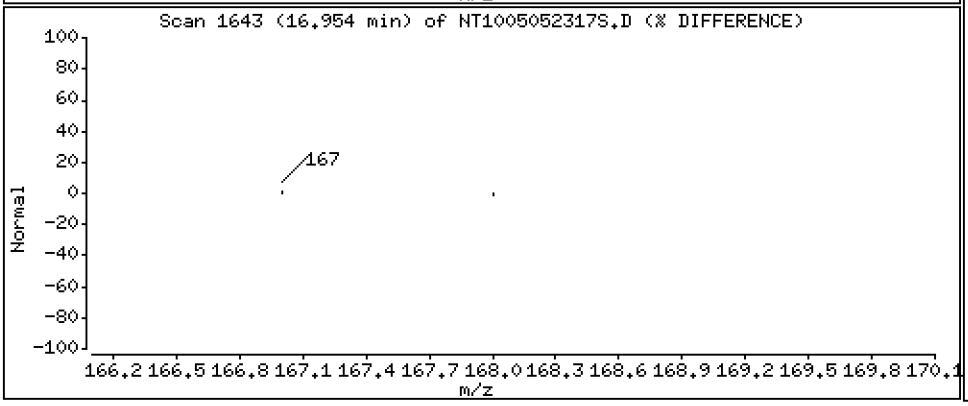












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Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

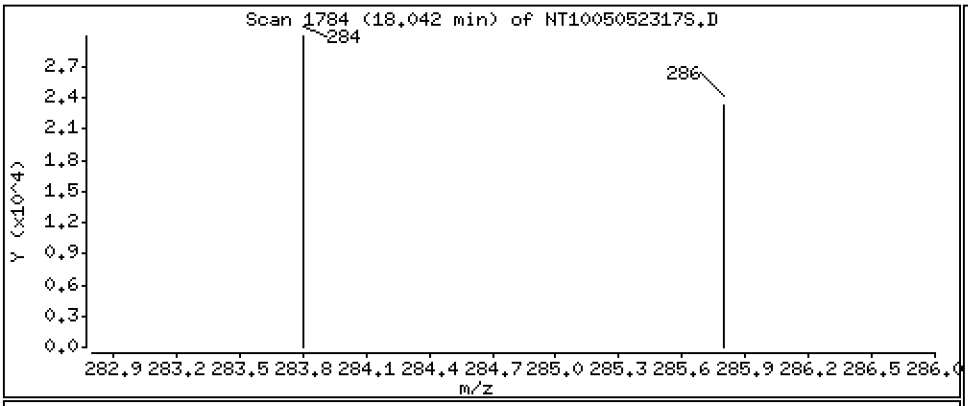
Operator: DSD

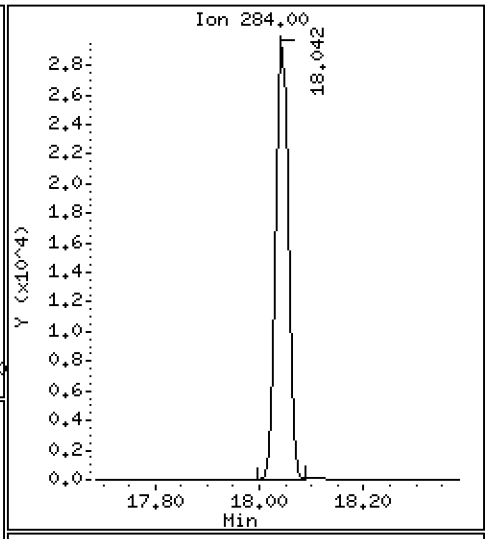
Column phase: ZB-5msi

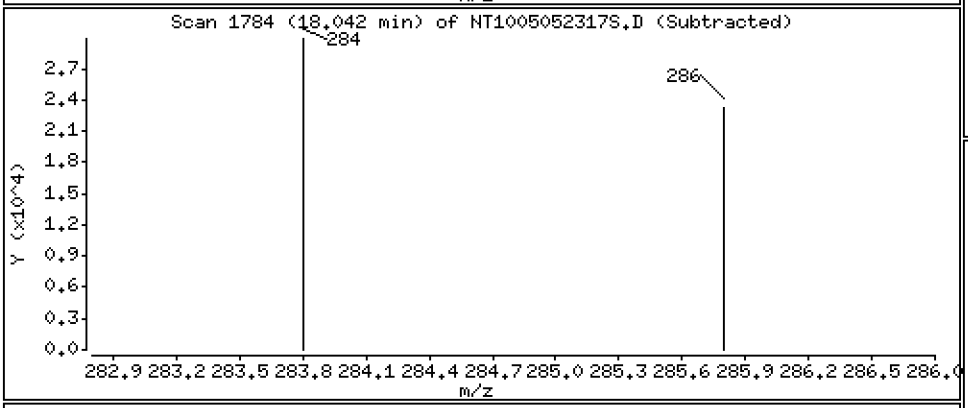
Column diameter: 0.25

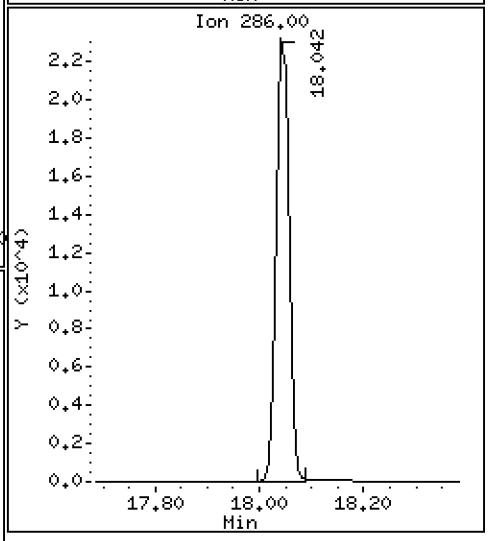
57 Hexachlorobenzene

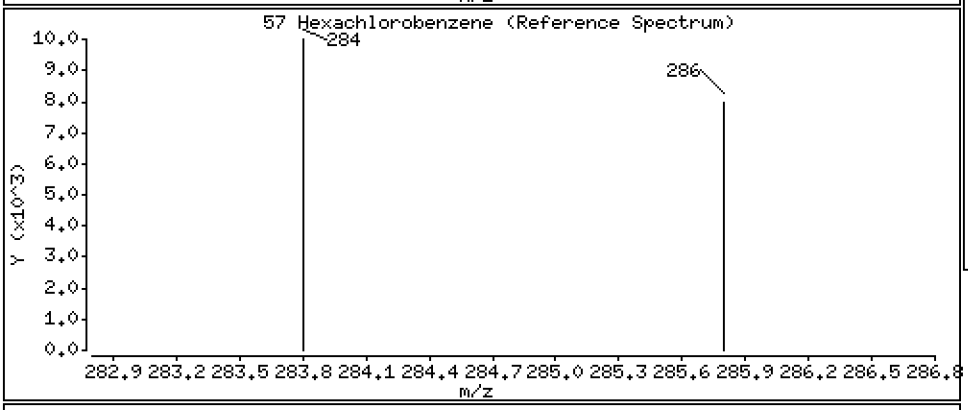
Concentration: 0.9020 ug/L

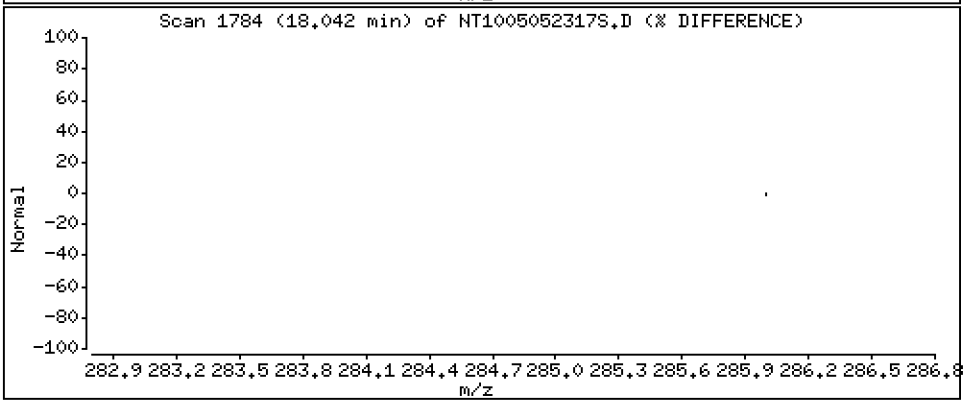












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

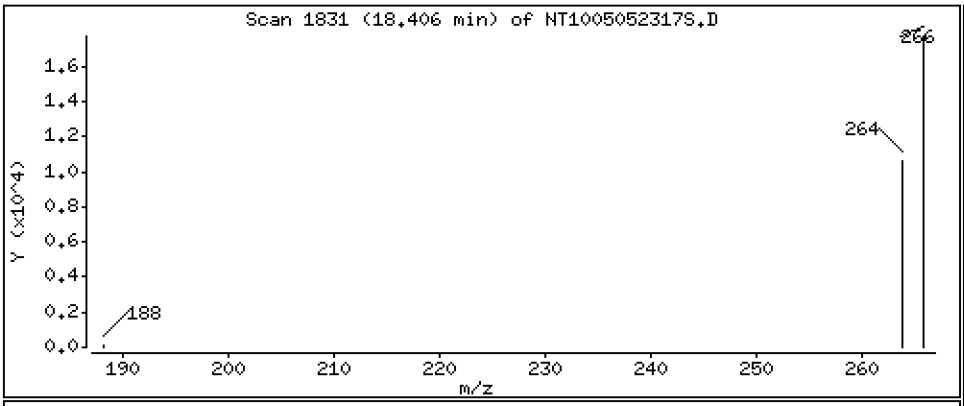
Operator: DSD

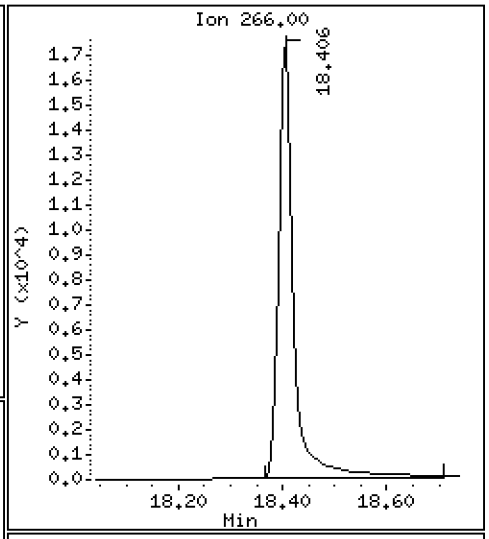
Column phase: ZB-5msi

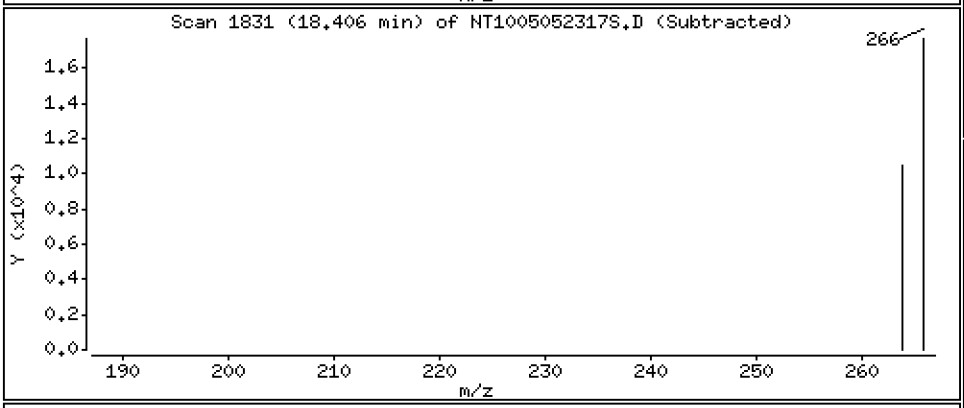
Column diameter: 0.25

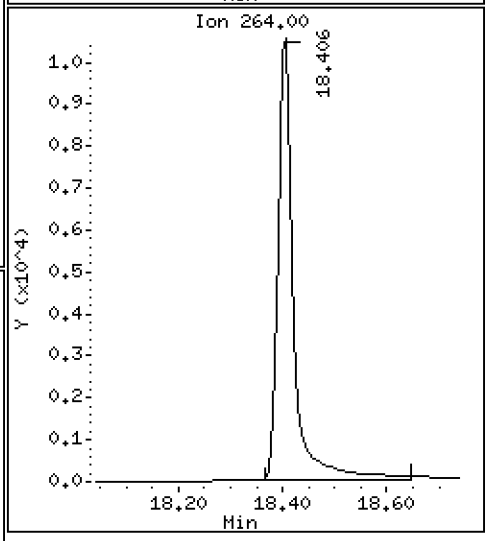
58 Pentachlorophenol

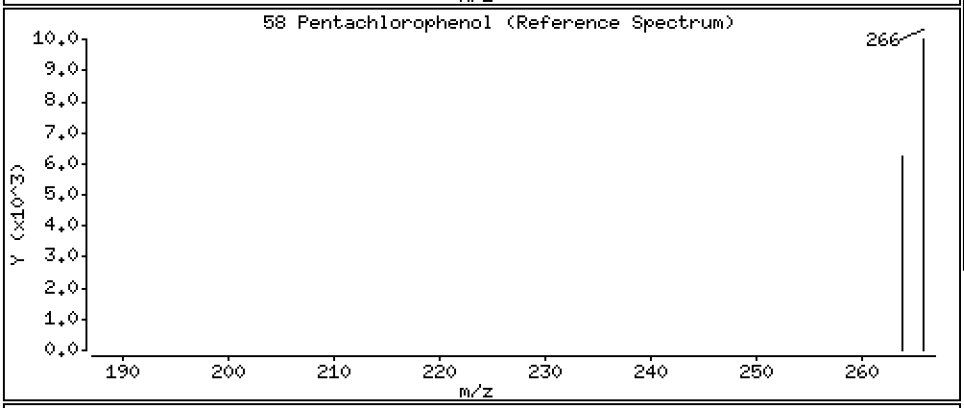
Concentration: 1.123 ug/L

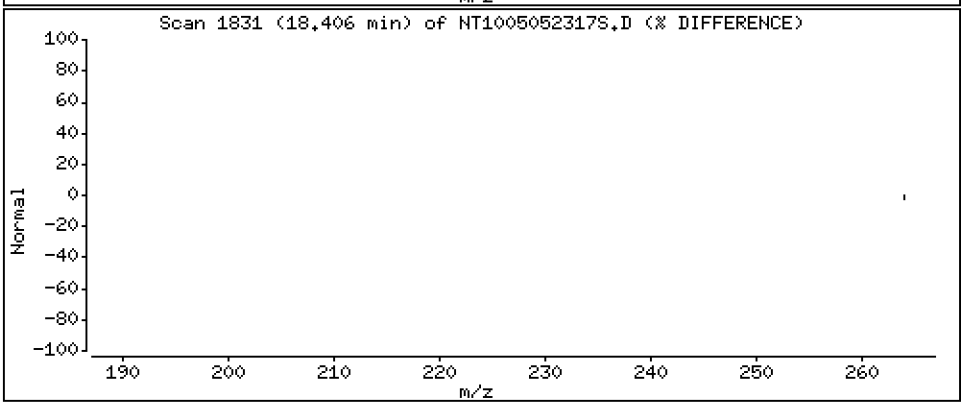












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

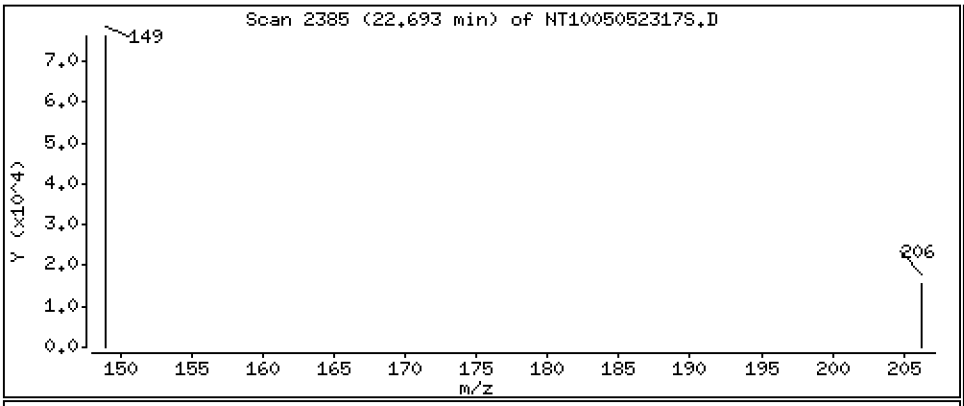
Operator: DSD

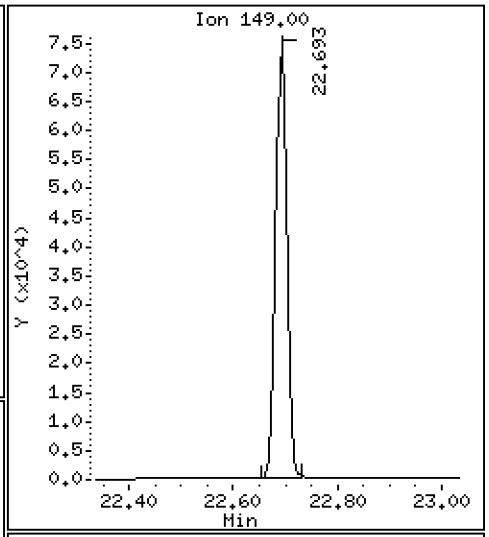
Column phase: ZB-5msi

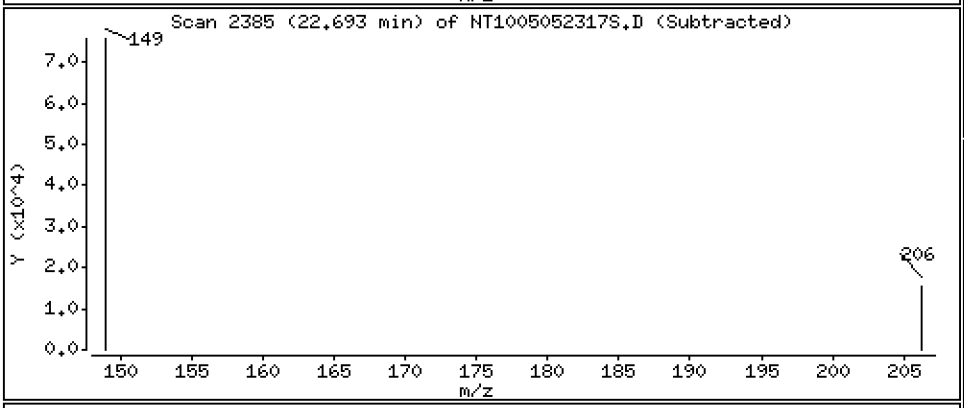
Column diameter: 0.25

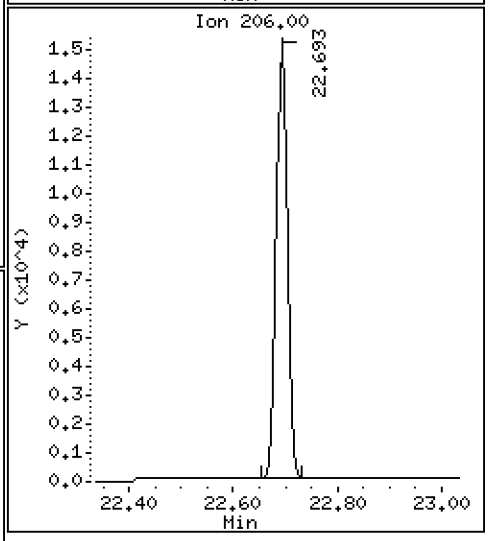
67 Butylbenzylphthalate

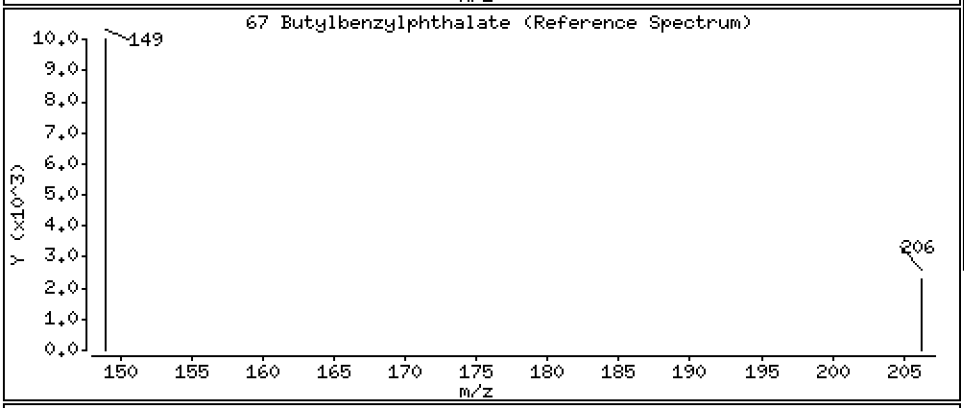
Concentration: 1.060 ug/L

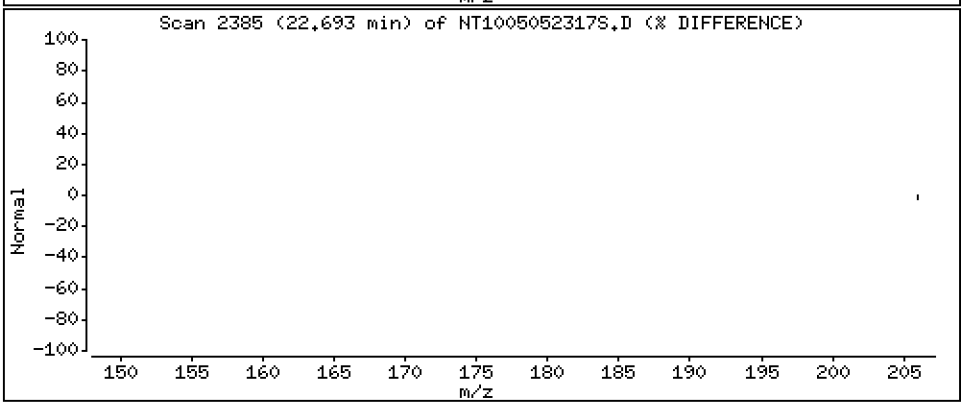












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

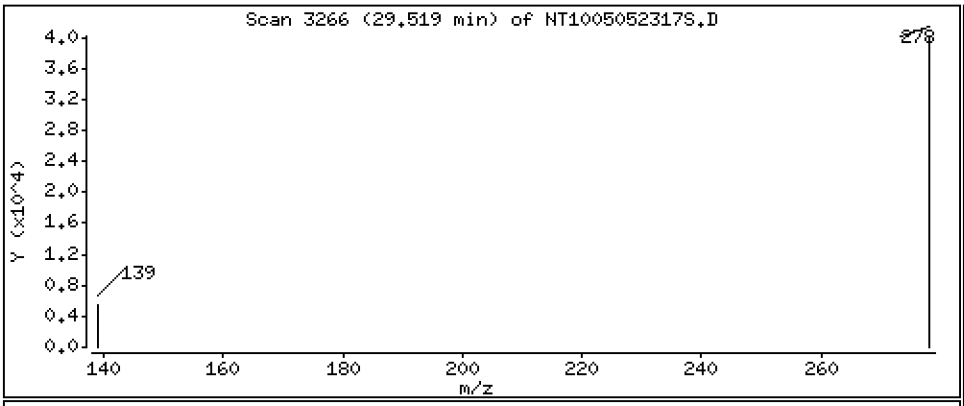
Operator: DSD

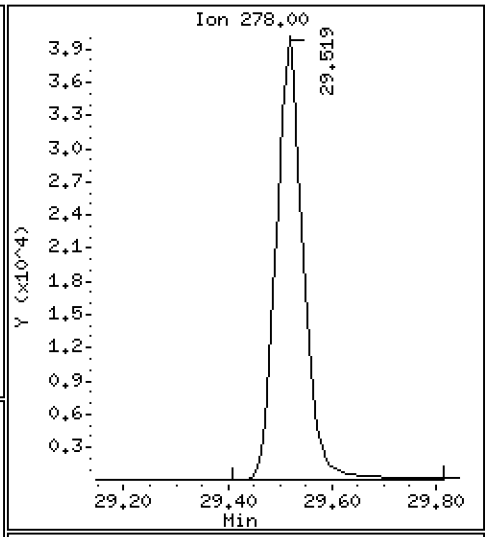
Column phase: ZB-5msi

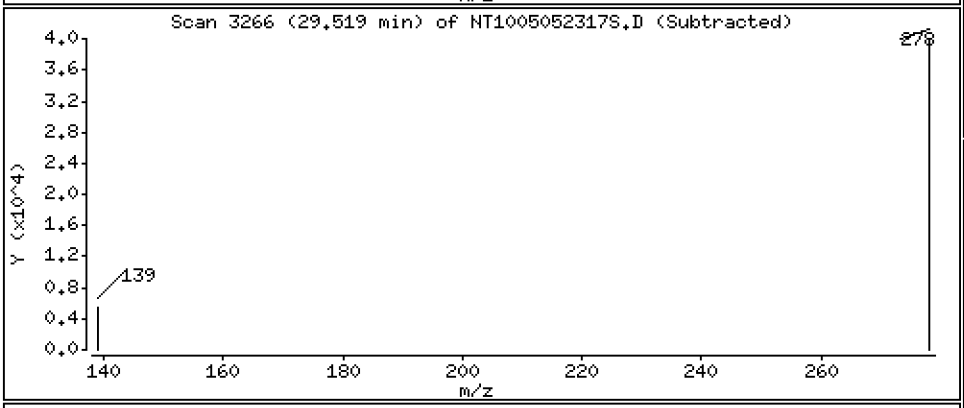
Column diameter: 0.25

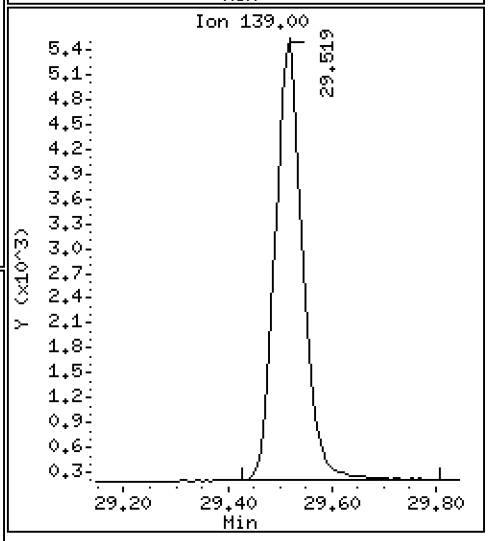
79 Dibenzo(a,h)anthracene

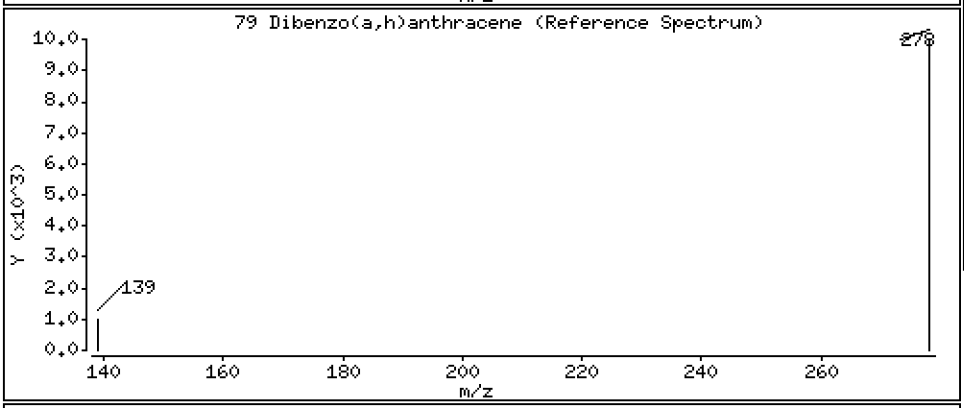
Concentration: 0.8798 ug/L

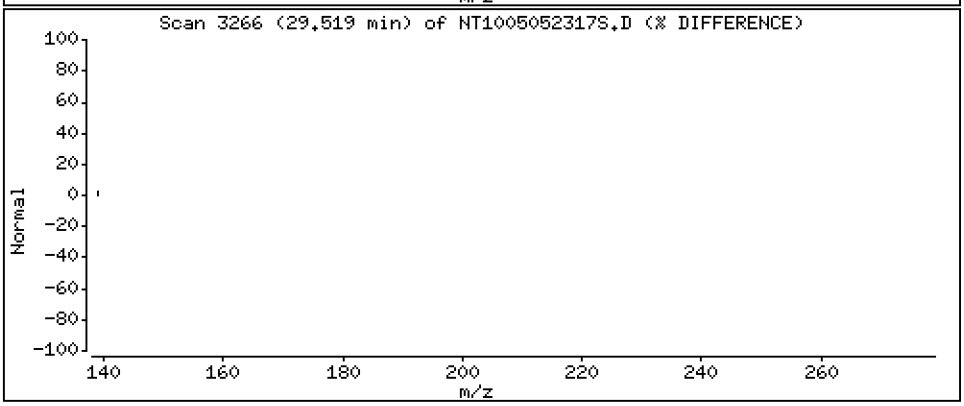












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D

Date : 05-MAY-2023 21:08

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-CCV1

Volume Injected (uL): 1.0

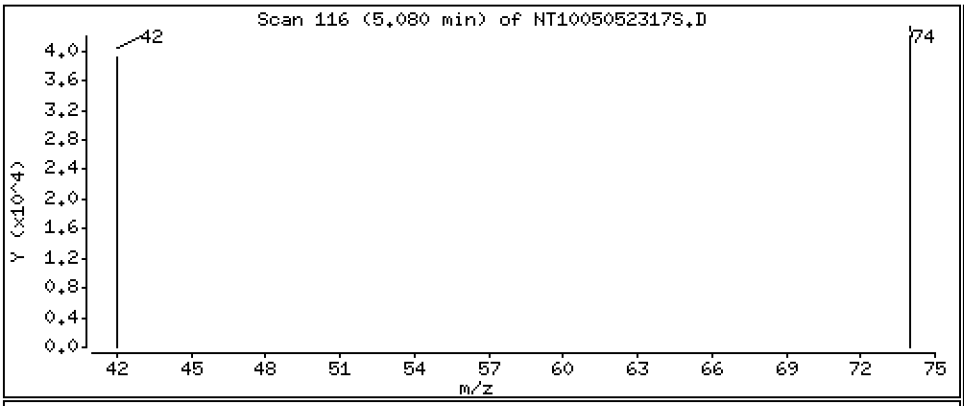
Operator: DSD

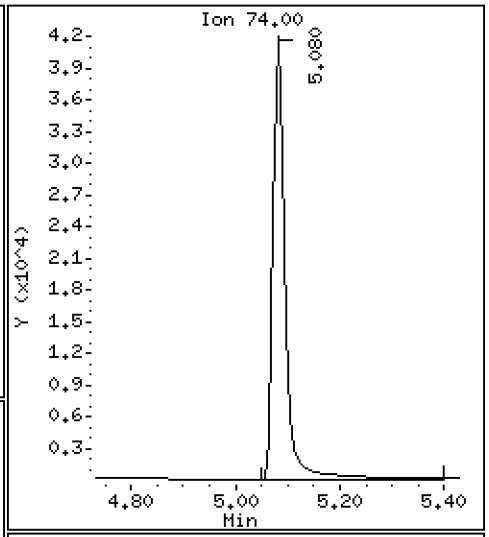
Column phase: ZB-5msi

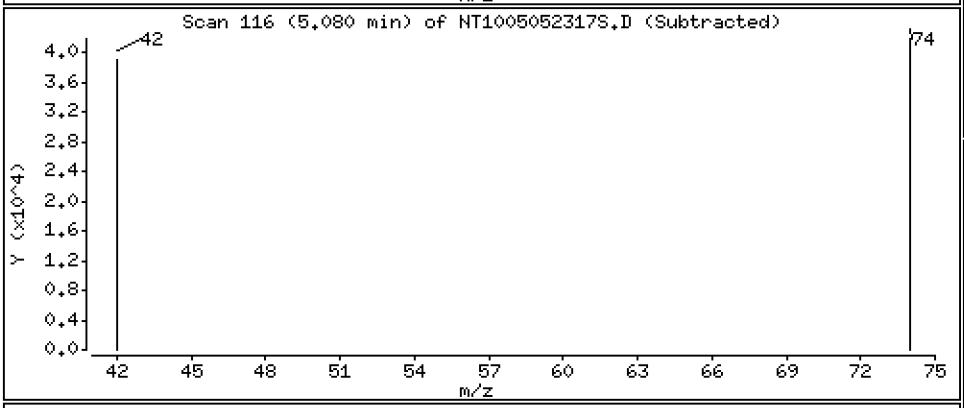
Column diameter: 0.25

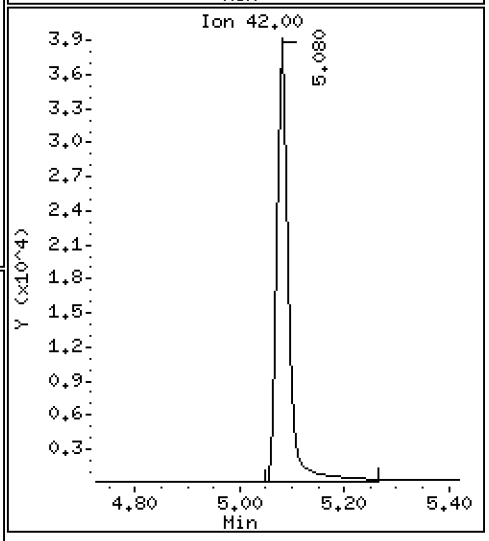
90 N-Nitrosodimethylamine

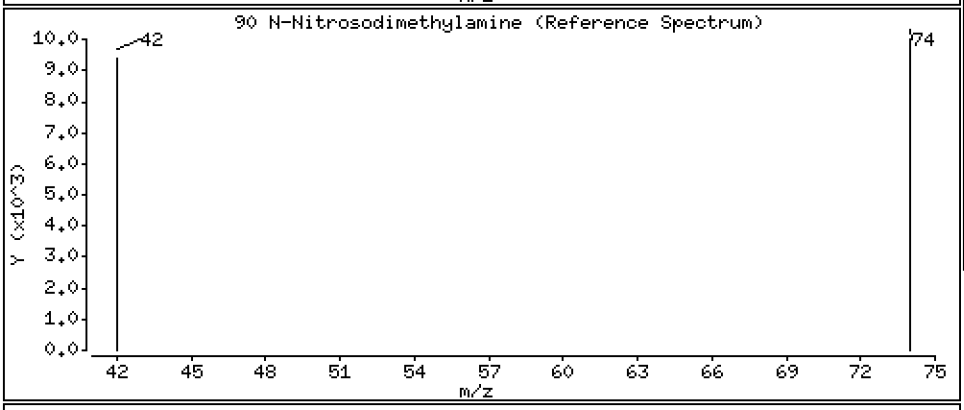
Concentration: 1.870 ug/L

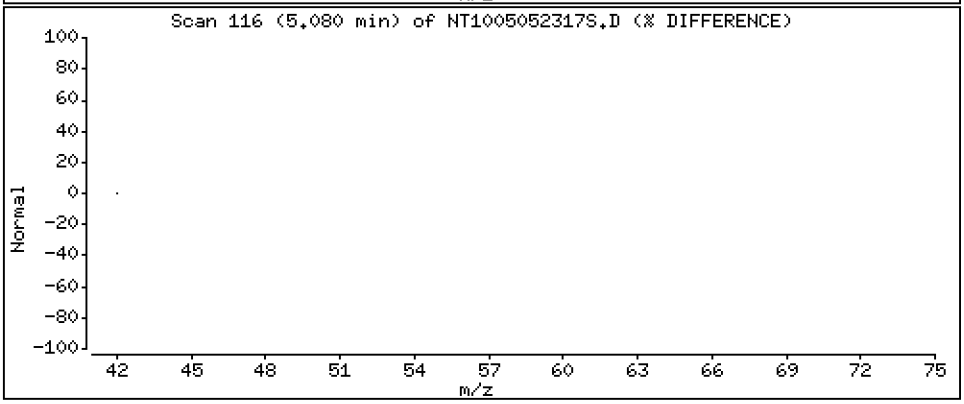












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052317S.D
Lab Smp Id: SLE0466-CCV1
Inj Date : 05-MAY-2023 21:08 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLE0466-CCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.762)	90818	1.43035	1.430(R)
3	Phenol	94	8.850	8.842	(0.932)	78544	0.98755	0.9876
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	76474	0.91427	0.9143
* 8	1,4-Dichlorobenzene-d4	152	9.499	9.492	(1.000)	208433	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.002)	74487	0.89913	0.8991
11	Benzyl alcohol	79	9.755	9.756	(1.027)	57527	1.04592	1.046
12	1,2-Dichlorobenzene	146	9.887	9.880	(1.041)	73916	0.92765	0.9277
13	2-Methylphenol	108	9.973	9.965	(1.050)	60754	1.02068	1.021
15	4-Methylphenol	108	10.245	10.237	(1.078)	65591	1.04803	1.048
16	N-Nitroso-di-n-propylamine	70	10.314	10.315	(1.086)	48032	1.06365	1.064
22	2,4-Dimethylphenol	107	11.288	11.288	(0.941)	147423	1.96540	1.965
24	Benzoic acid	105	11.406	11.381	(0.951)	108852	2.21461	2.215
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.992)	67446	0.87643	0.8764
* 27	Naphthalene-d8	136	11.996	11.988	(1.000)	754909	4.00000	
30	Hexachlorobutadiene	225	12.390	12.382	(1.033)	44192	0.89940	0.8994
39	Dimethylphthalate	163	15.106	15.099	(0.967)	134812	0.91468	0.9147
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	388803	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	158926	1.00425	1.004
54	N-Nitrosodiphenylamine	169	16.954	16.954	(0.908)	99922	0.93534	0.9353
57	Hexachlorobenzene	284	18.042	18.034	(0.966)	47186	0.90196	0.9020

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.405	18.390	(0.986)	35495	1.12339	1.123
*	59 Phenanthrene-d10	188	18.676	18.669	(1.000)	819155	4.00000	
$	66 Terphenyl-d14	244	21.779	21.771	(0.919)	132882	1.11127	1.111(R)
	67 Butylbenzylphthalate	149	22.692	22.685	(0.958)	104378	1.06009	1.060
*	69 Chrysene-d12	240	23.699	23.684	(1.000)	554558	4.00000	
*	77 Perylene-d12	264	26.533	26.517	(1.000)	517224	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.519	29.496	(1.113)	146893	0.87983	0.8798
	90 N-Nitrosodimethylamine	74	5.080	5.080	(0.535)	64788	1.87045	1.870

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052317S.D
Lab Smp Id: SLE0466-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	208433	14.08
27 Naphthalene-d8	662220	331110	1324440	754909	14.00
42 Acenaphthene-d10	335558	167779	671116	388803	15.87
59 Phenanthrene-d10	678190	339095	1356380	819155	20.79
69 Chrysene-d12	566969	283485	1133938	554558	-2.19
77 Perylene-d12	522906	261453	1045812	517224	-1.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.50	0.08
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.06
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	-0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.68	0.04
69 Chrysene-d12	23.68	23.18	24.18	23.70	0.06
77 Perylene-d12	26.52	26.02	27.02	26.53	0.06

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

REVIEW SUMMARY FOR FILE - NT1005052317S.D

Lab ID: SLE0466-CCV1
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 21:08

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00018
Lab File ID:	NT1005052306S.D	Calibration Date:	05/04/2023
Sequence:	SLE0466	Injection Date:	05/05/23
Lab Sample ID:	SLE0466-LCV1	Injection Time:	14:01
Sequence Name:	Low Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	0.10000	0.09	1.5898270	1.4331360		-9.9	
1,2-Dichlorobenzene	A	0.10000	0.09	1.5291420	1.3856310		-9.4	
Benzyl Alcohol	A	0.10000	0.09	1.0555230	0.9816286		-7.0	
Benzoic acid	A	0.40000	0.0	0.1834660				
2,4-Dimethylphenol	A	0.20000	0.1	0.3974465	0.2933282		-26.2	
1,2,4-Trichlorobenzene	A	0.10000	0.09	0.4077591	0.3724182		-8.7	
N-Nitrosodiphenylamine	A	0.10000	0.08	0.5216563	0.3998017		-23.4	
Pentachlorophenol	A	0.20000	0.009	0.1295337	0.0066991		-95.6	
2-Fluorophenol	A	0.15000	0.115	1.2184940	0.9338434		-23.4	
p-Terphenyl-d14	A	0.10000	0.0734	0.8625046	0.6326167		-26.7	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523065.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

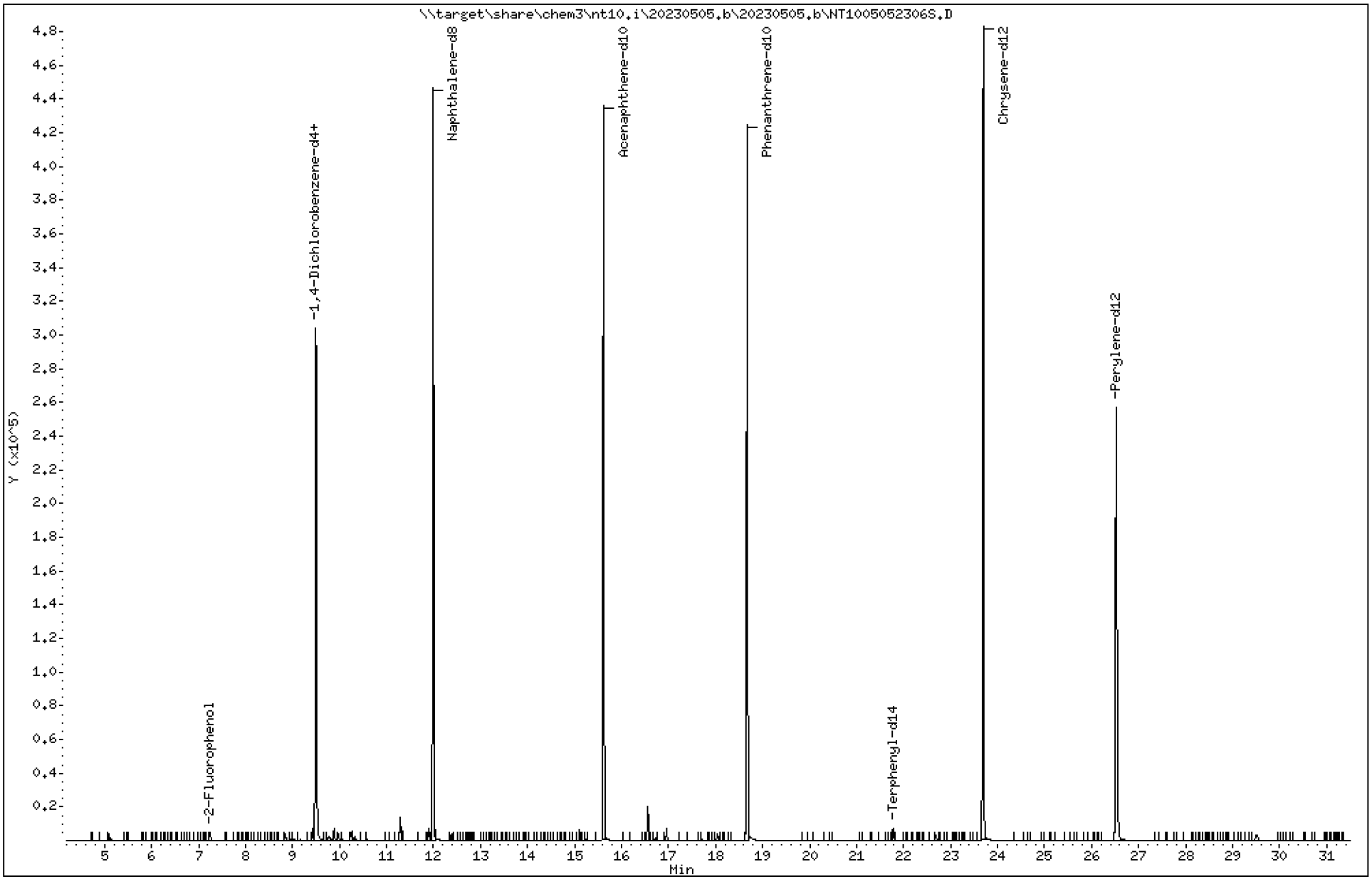
Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1947 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

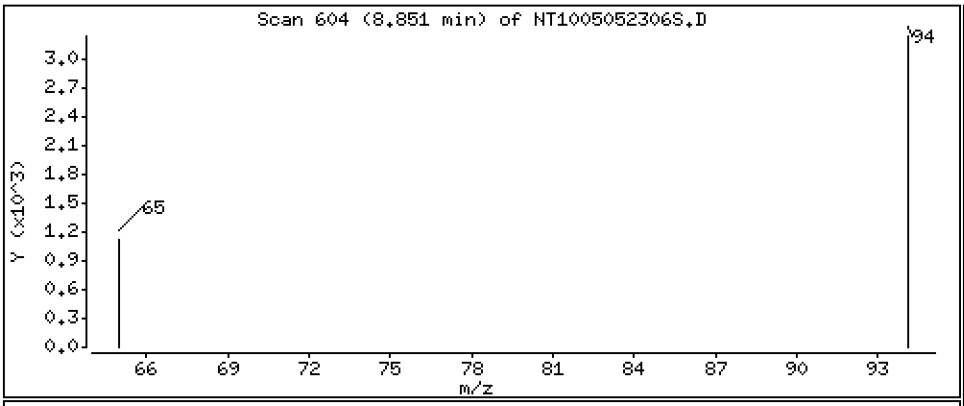
Operator: DSD

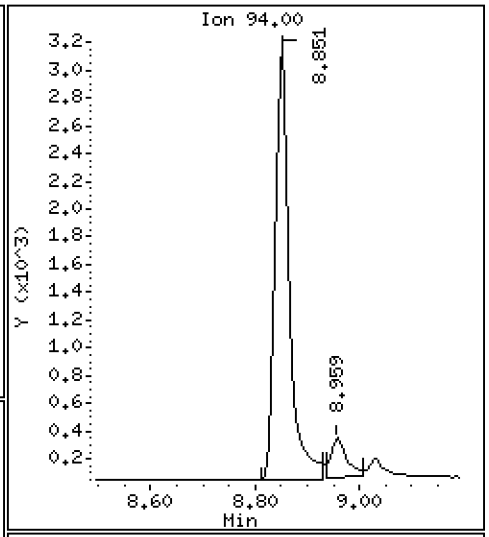
Column phase: ZB-5msi

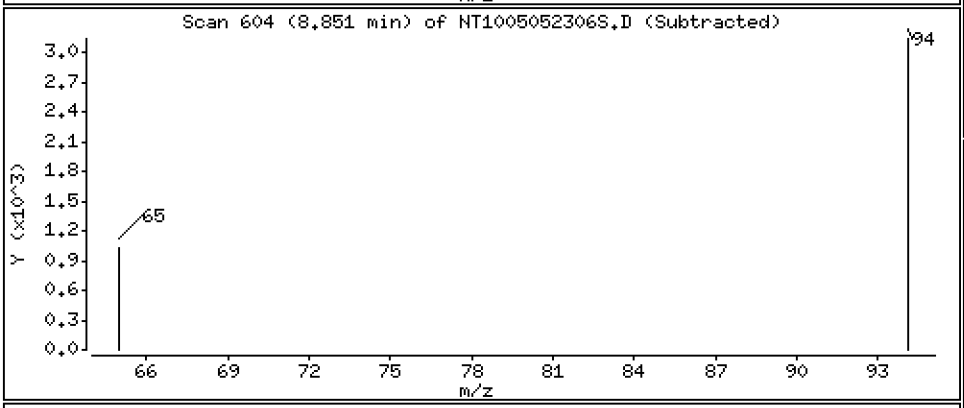
Column diameter: 0.25

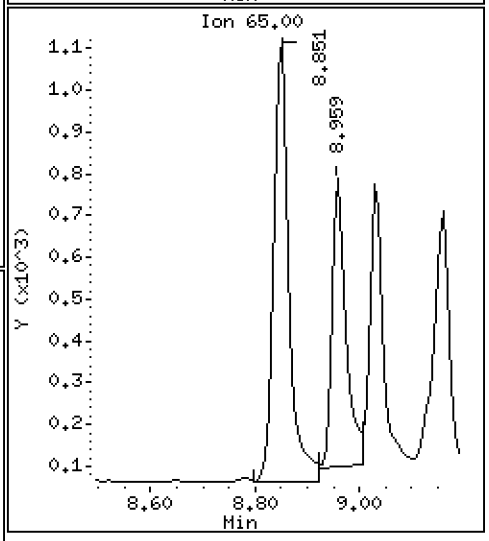
3 Phenol

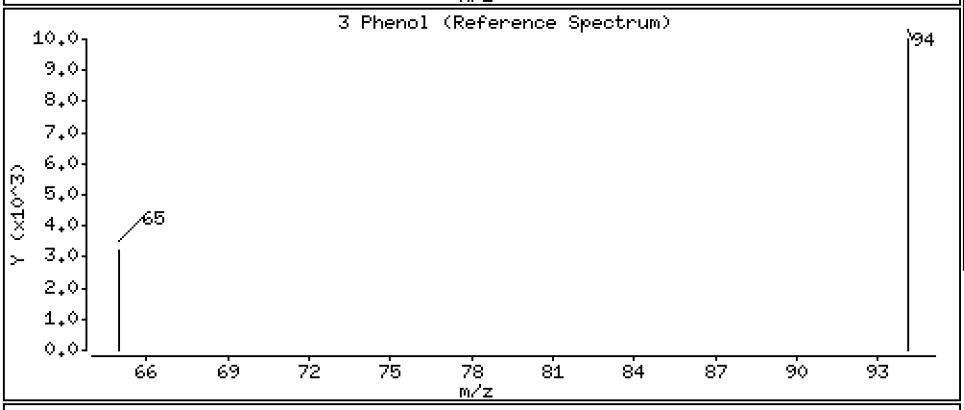
Concentration: 0.07938 ug/L

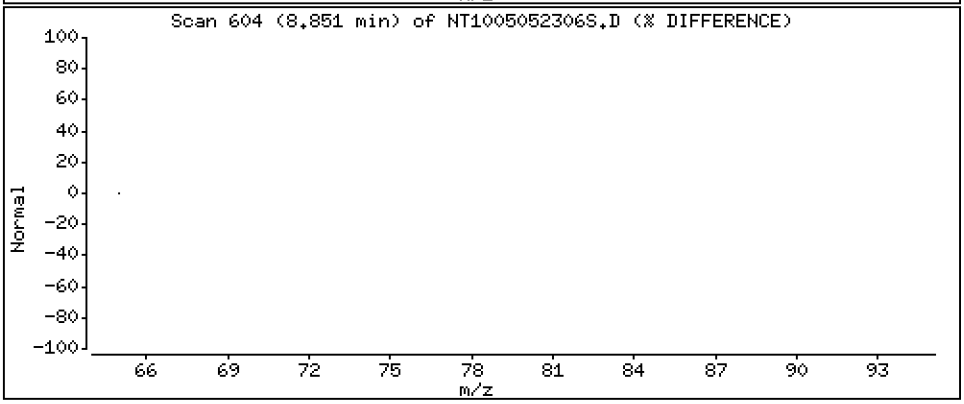












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

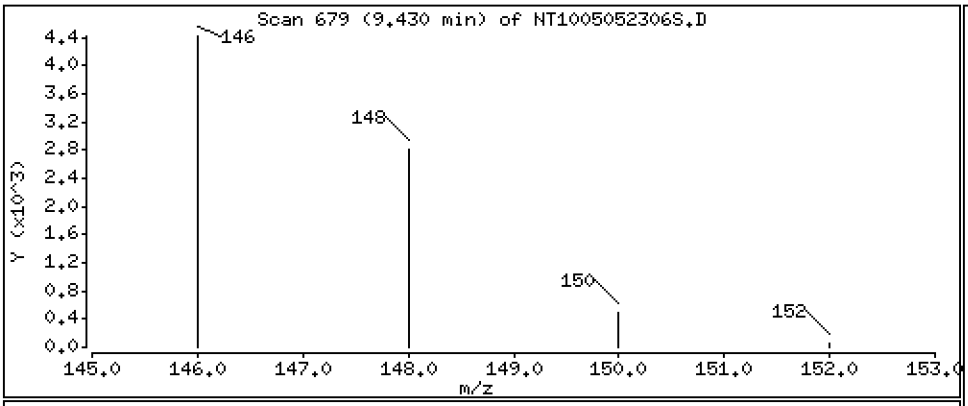
Operator: DSD

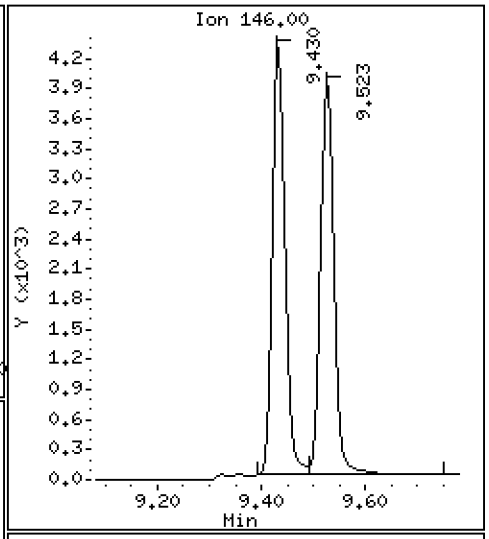
Column phase: ZB-5msi

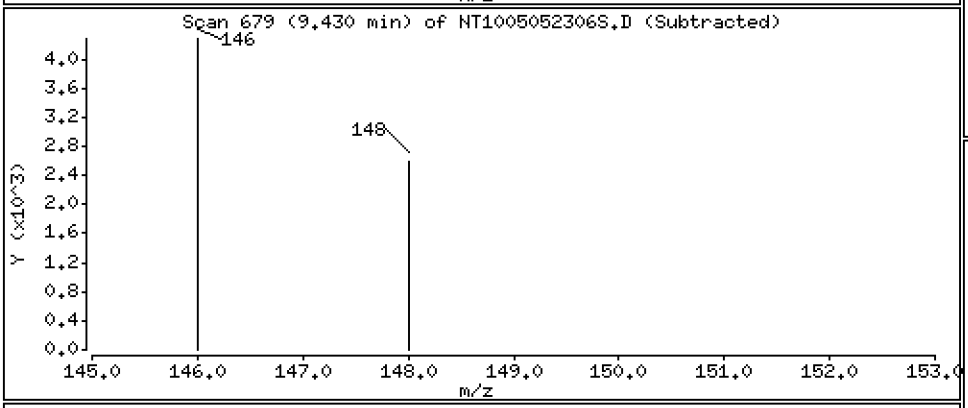
Column diameter: 0.25

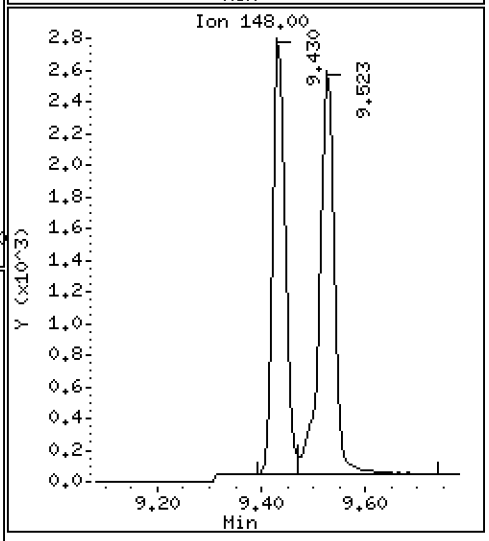
7 1,3-Dichlorobenzene

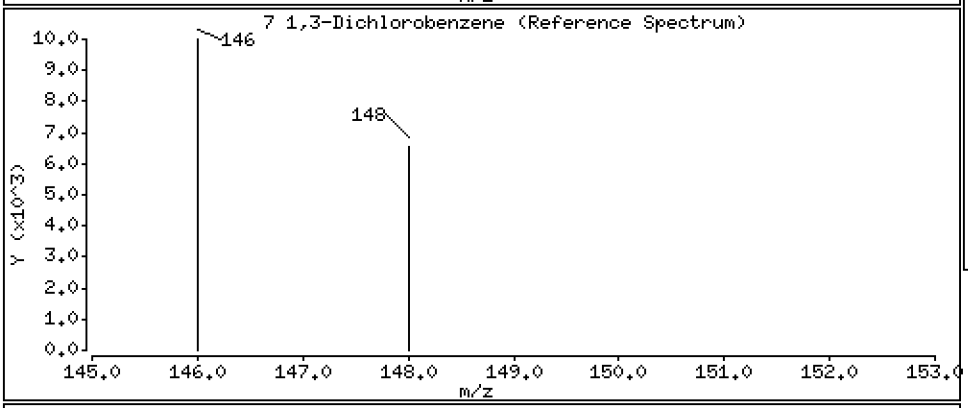
Concentration: 0.09248 ug/L

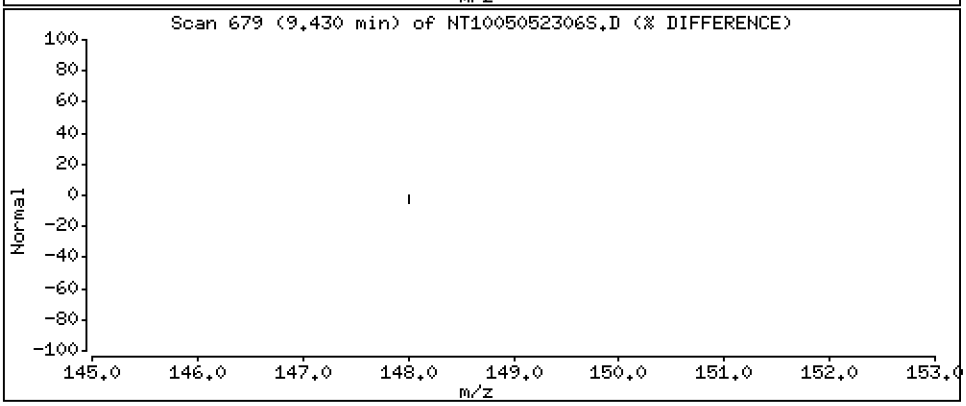












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

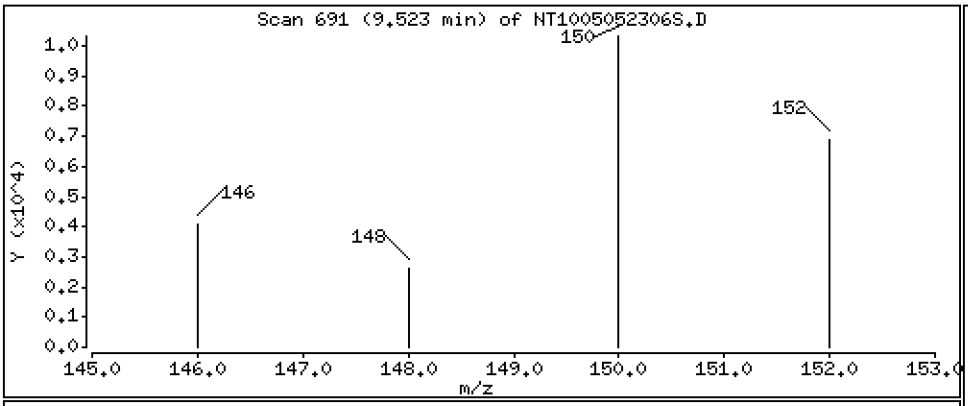
Operator: DSD

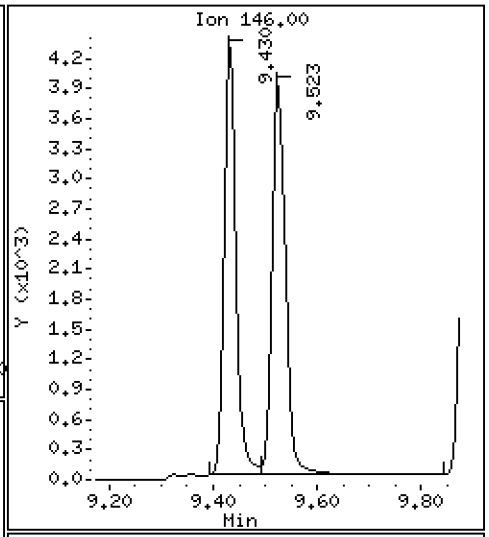
Column phase: ZB-5msi

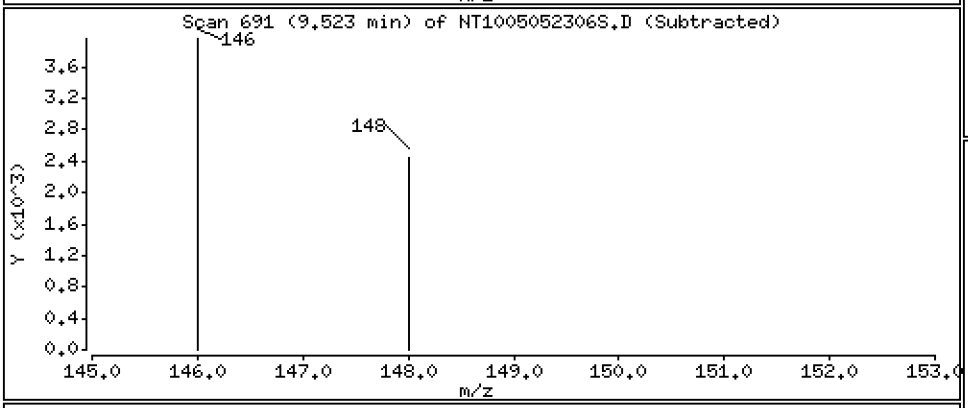
Column diameter: 0.25

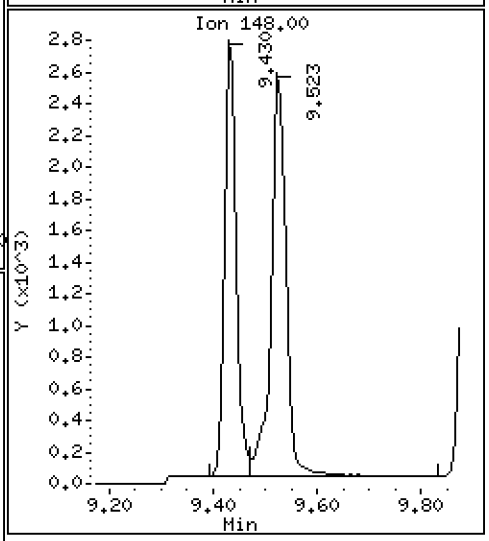
9 1,4-Dichlorobenzene

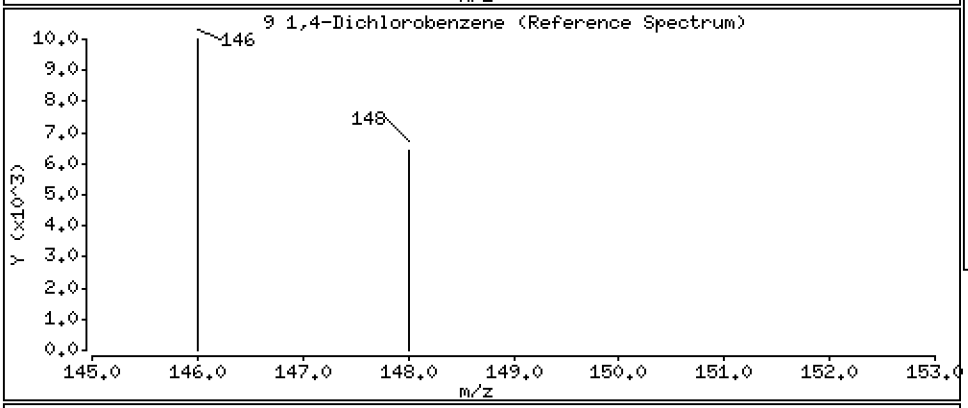
Concentration: 0.09014 ug/L

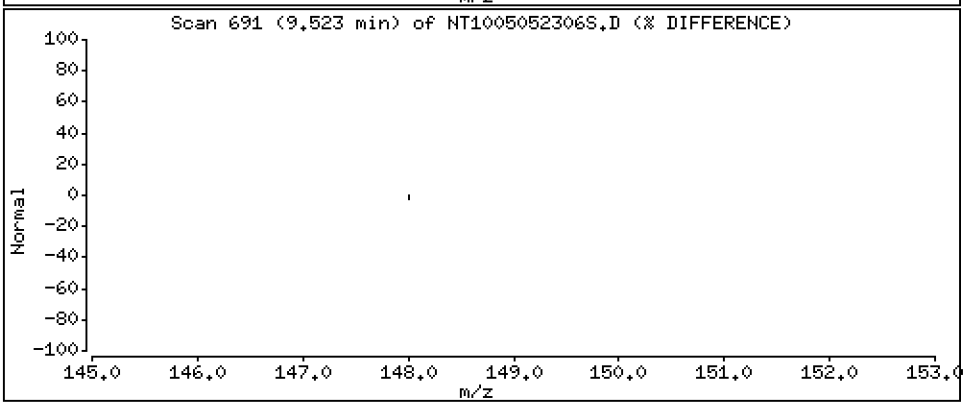












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

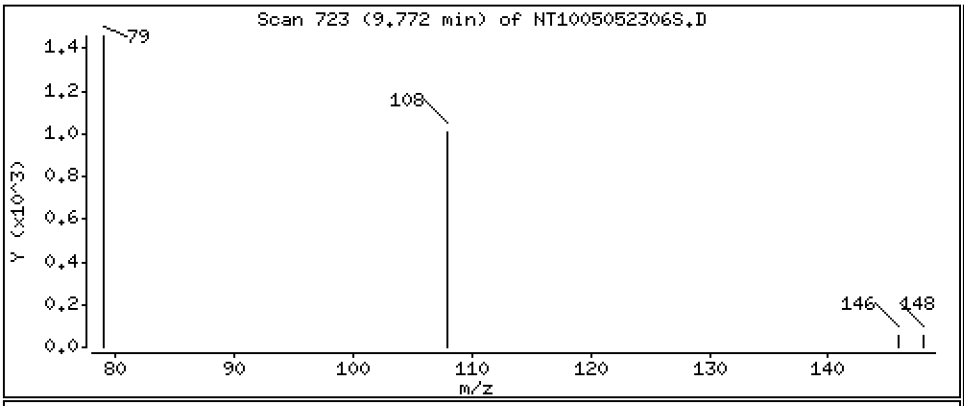
Operator: DSD

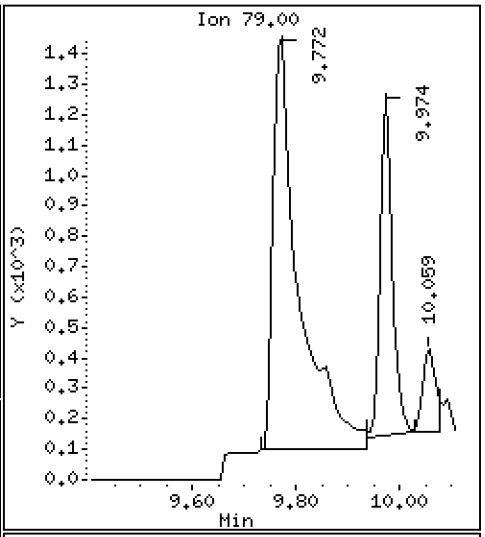
Column phase: ZB-5msi

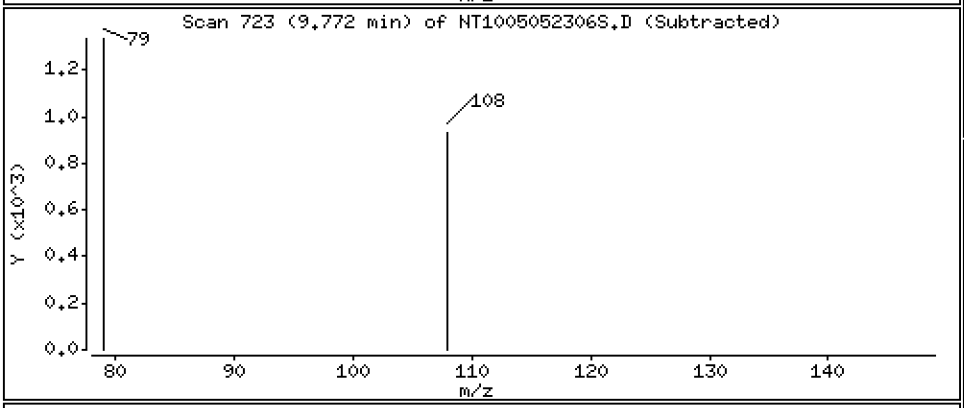
Column diameter: 0.25

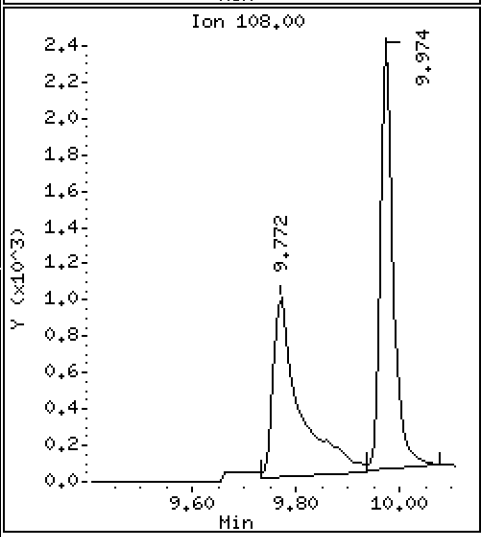
11 Benzyl alcohol

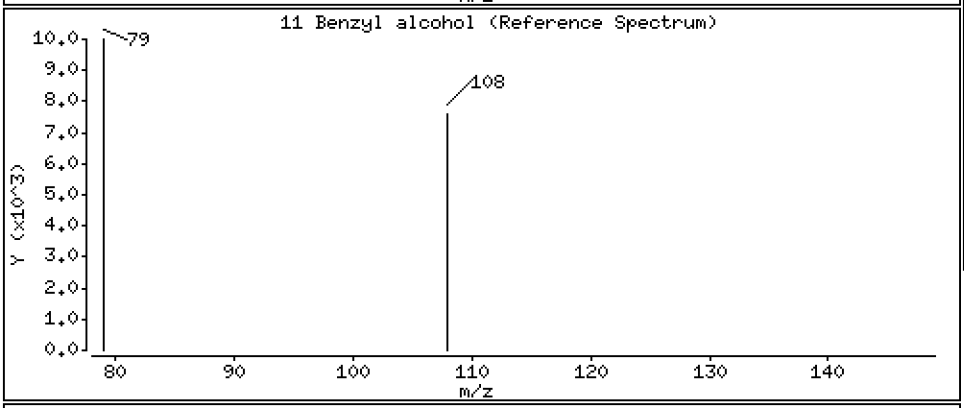
Concentration: 0.09300 ug/L

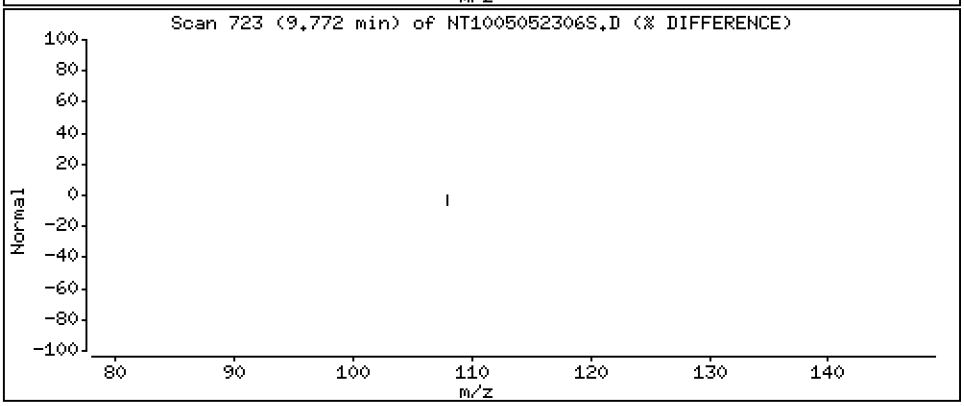












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

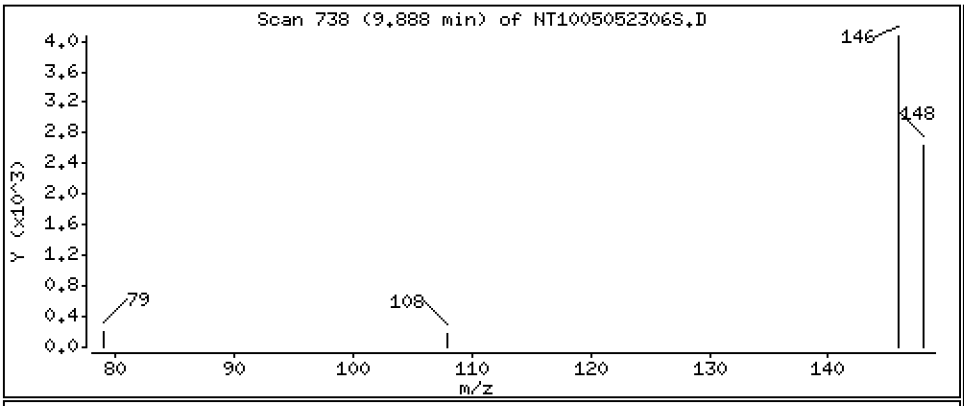
Operator: DSD

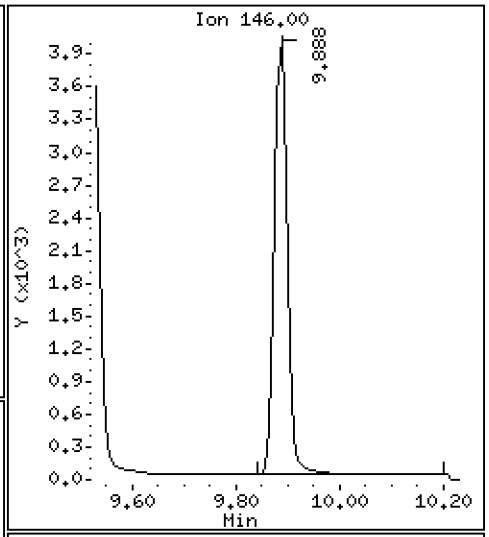
Column phase: ZB-5msi

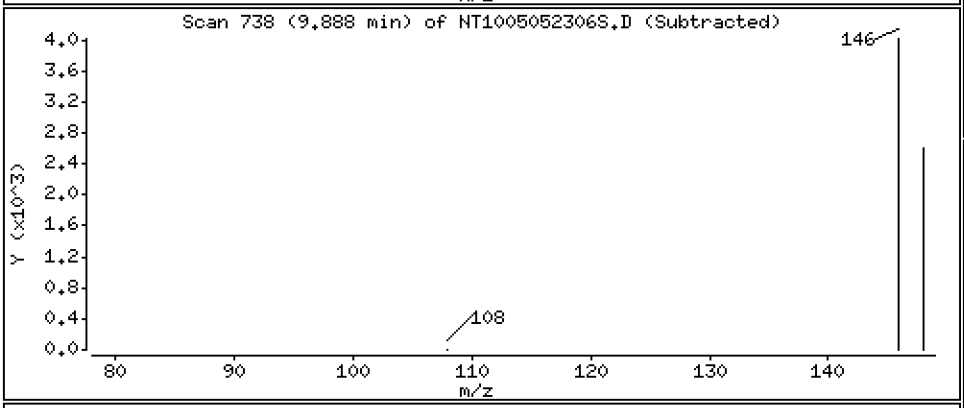
Column diameter: 0.25

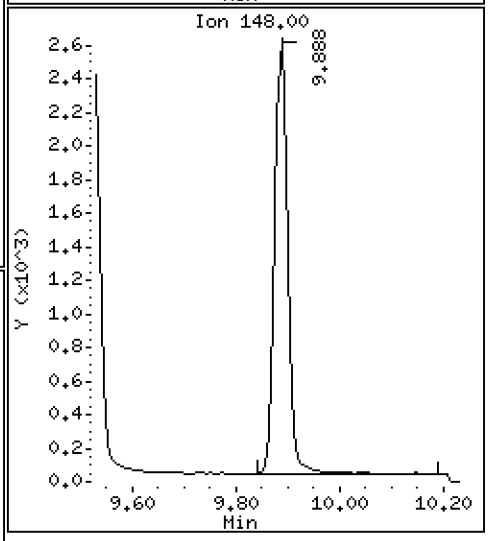
12 1,2-Dichlorobenzene

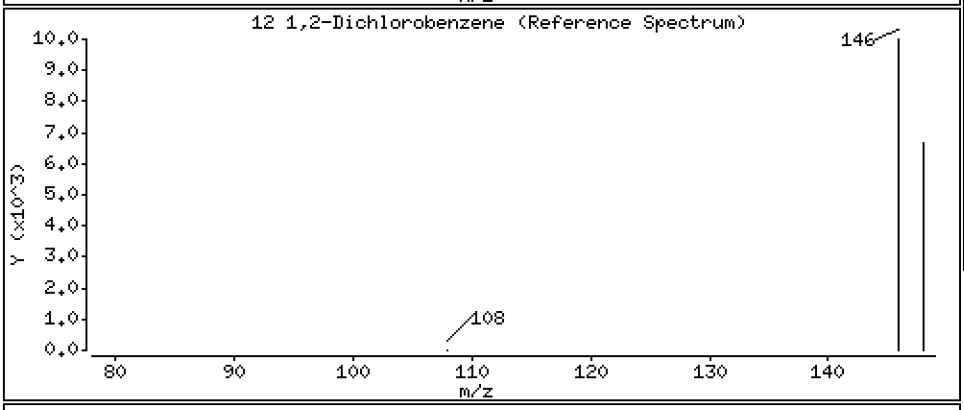
Concentration: 0.09061 ug/L

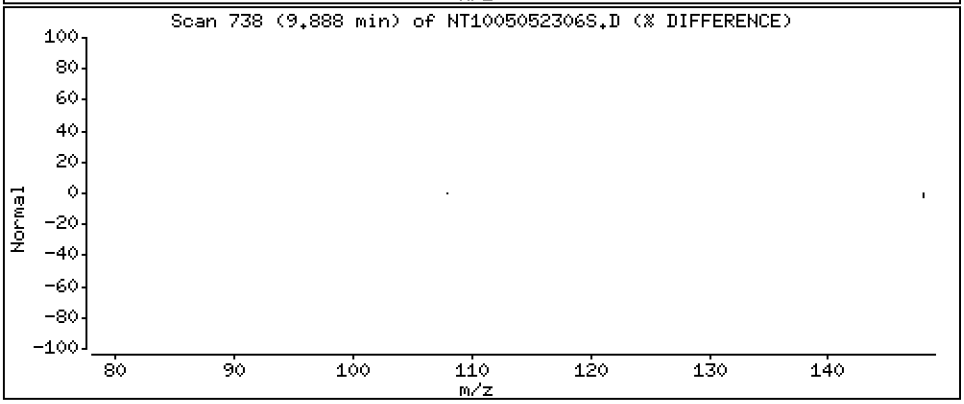












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

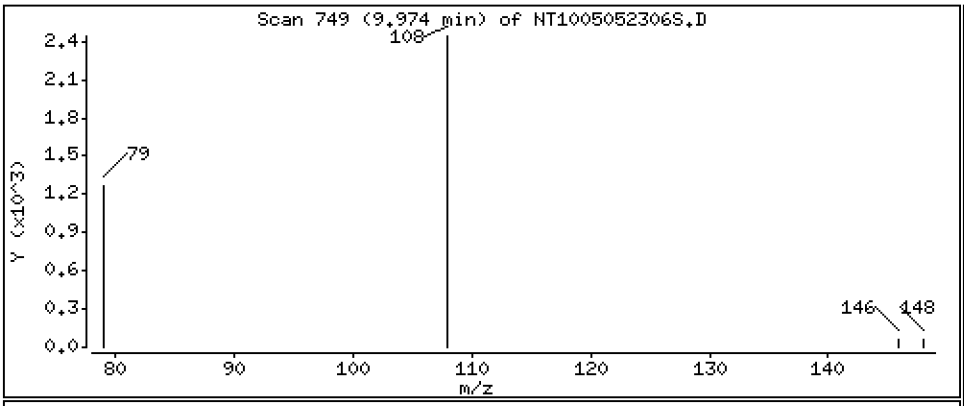
Operator: DSD

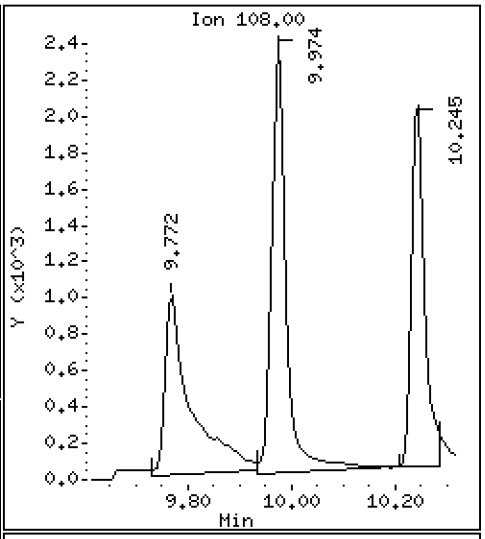
Column phase: ZB-5msi

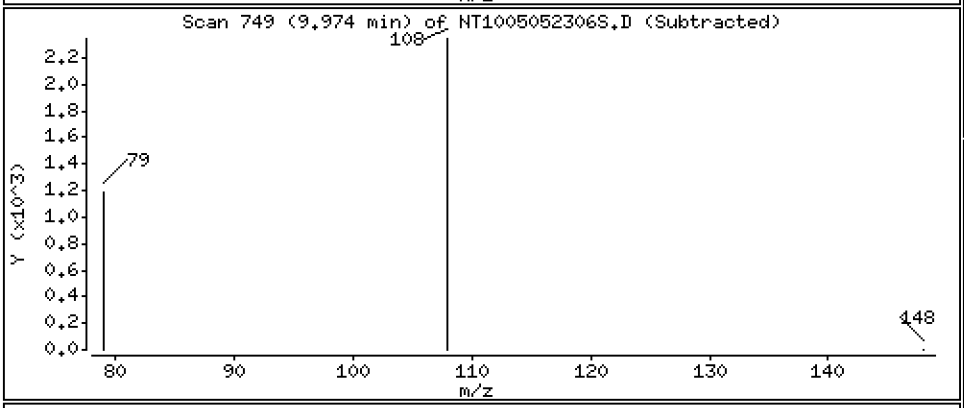
Column diameter: 0.25

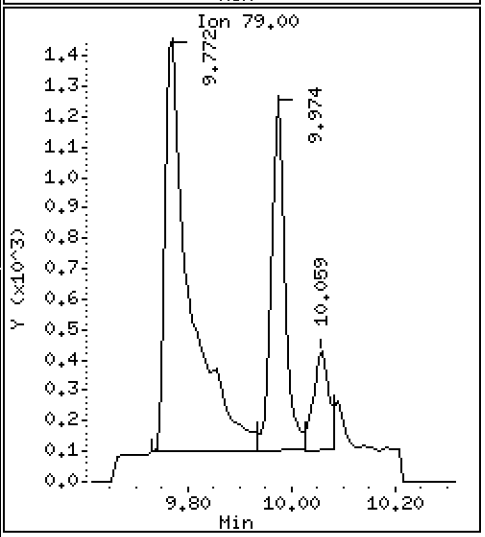
13 2-Methylphenol

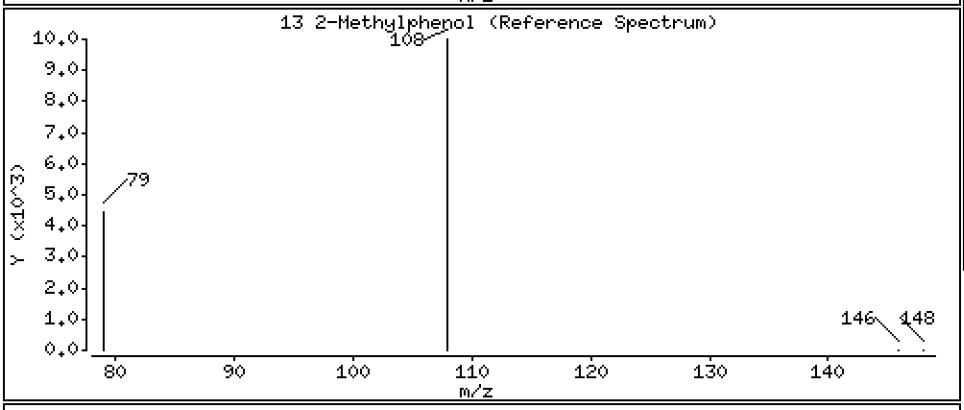
Concentration: 0.08306 ug/L

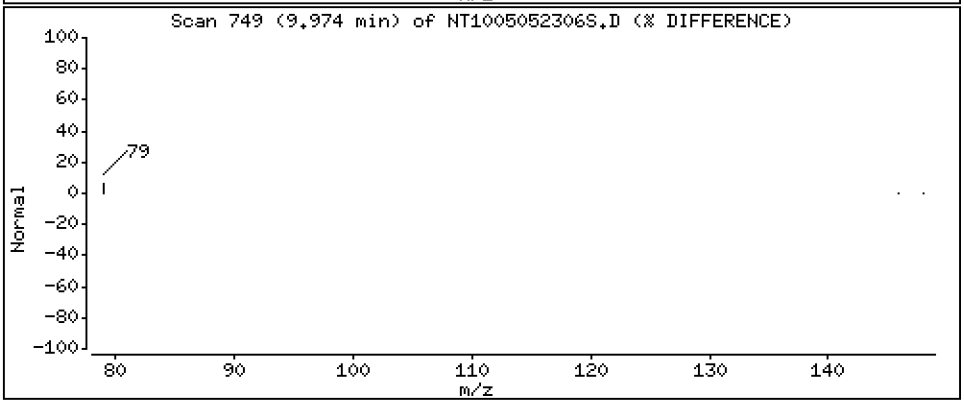












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

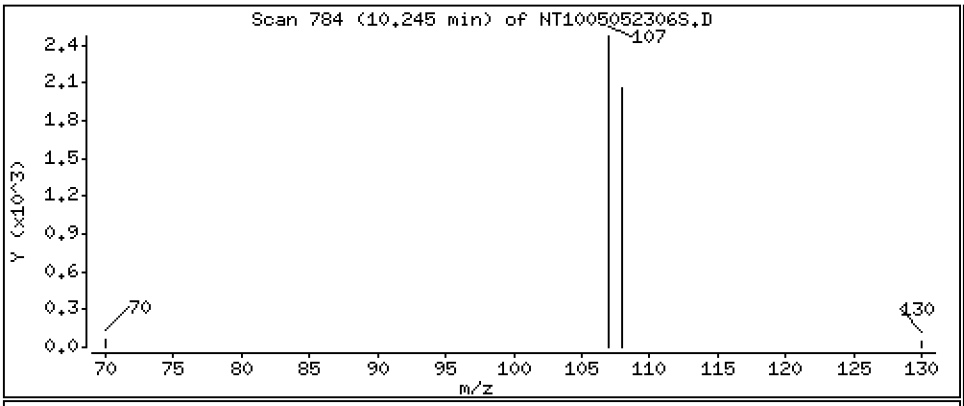
Operator: DSD

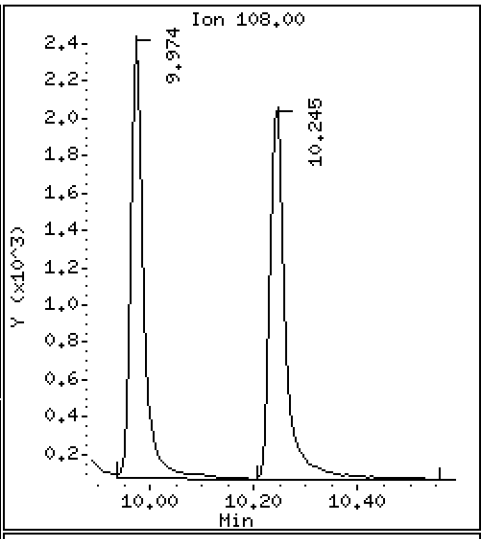
Column phase: ZB-5msi

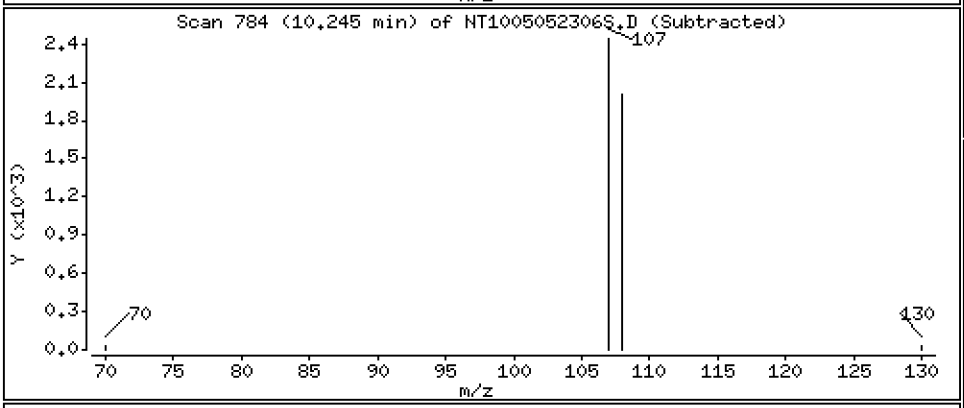
Column diameter: 0.25

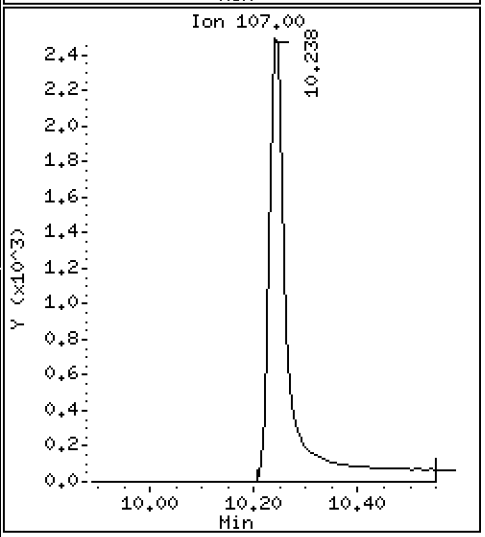
15 4-Methylphenol

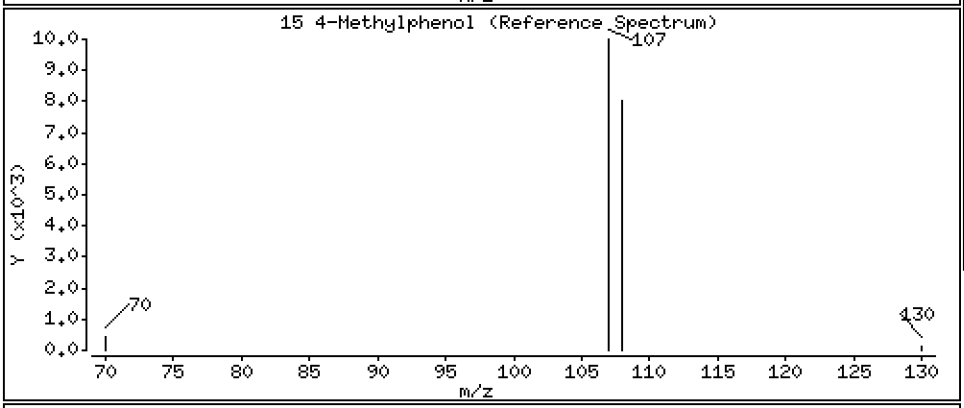
Concentration: 0.07170 ug/L

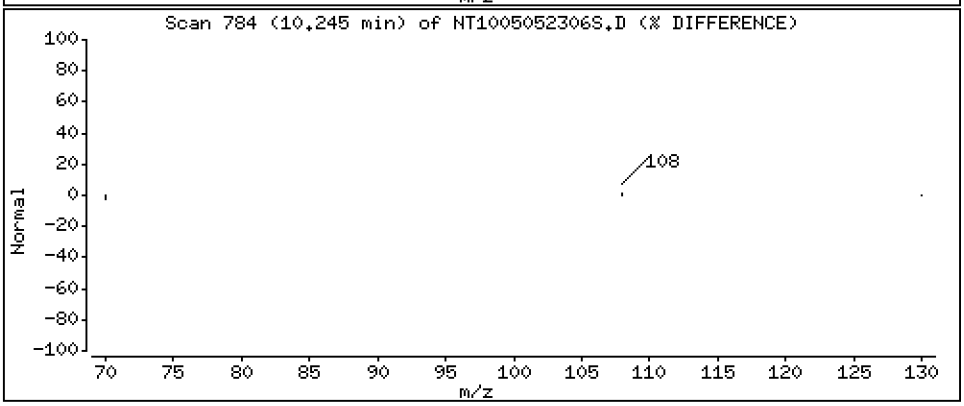












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

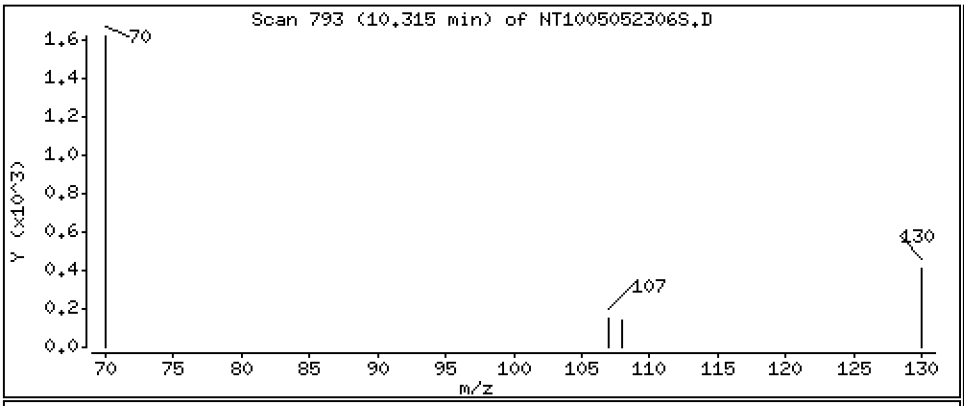
Operator: DSD

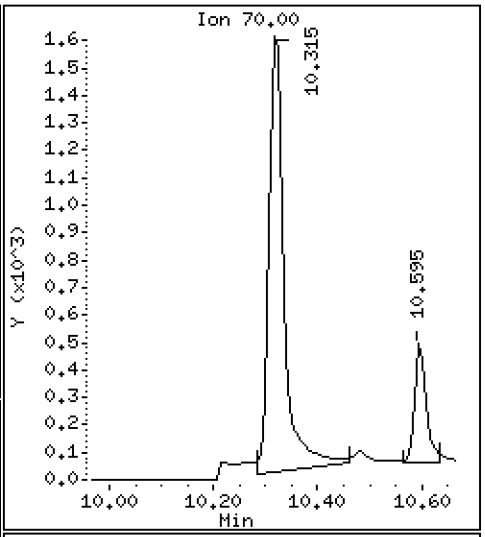
Column phase: ZB-5msi

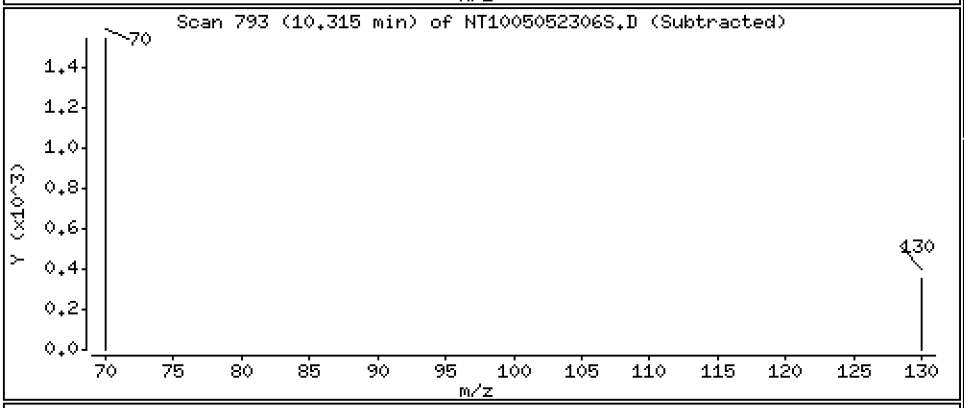
Column diameter: 0.25

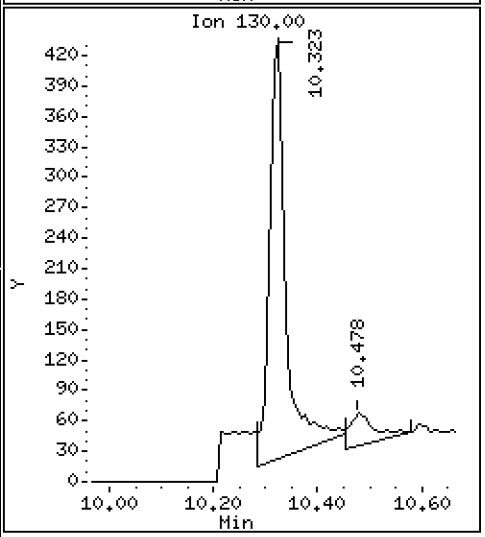
16 N-Nitroso-di-n-propylamine

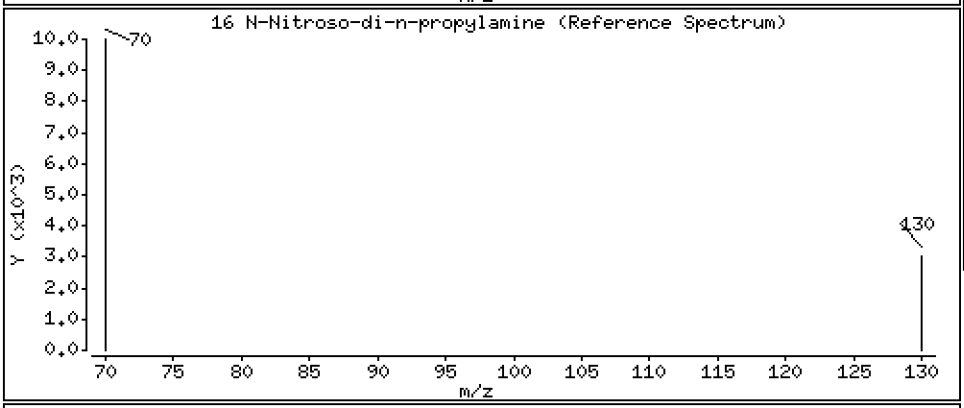
Concentration: 0.07575 ug/L

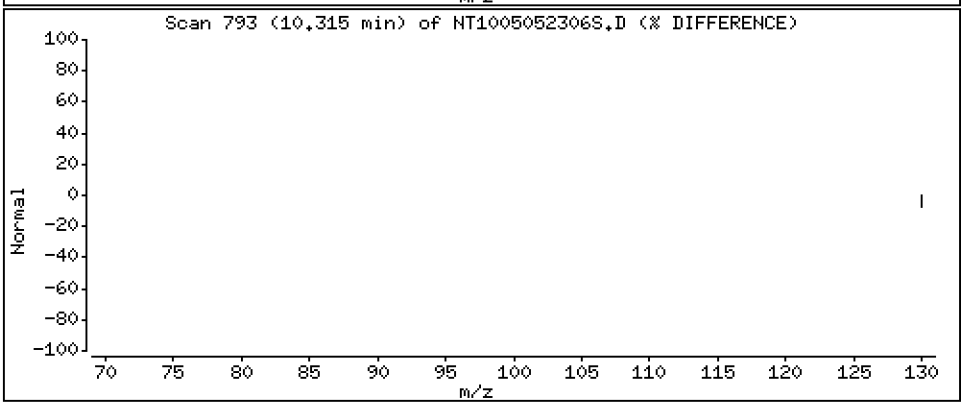












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523065.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

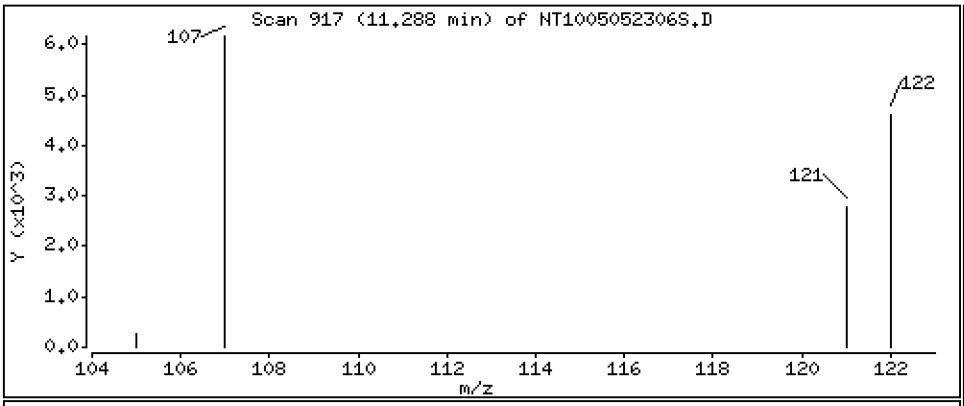
Operator: DSD

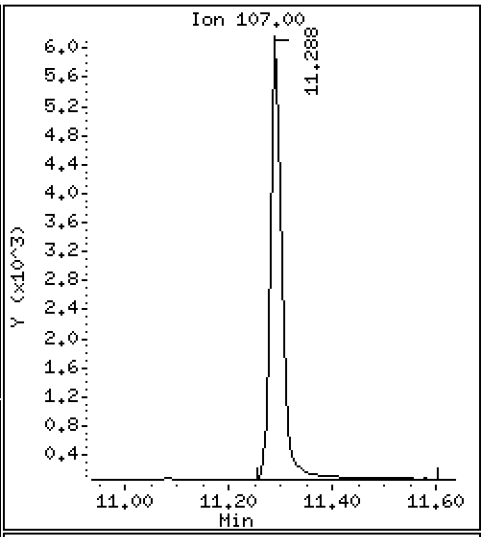
Column phase: ZB-5msi

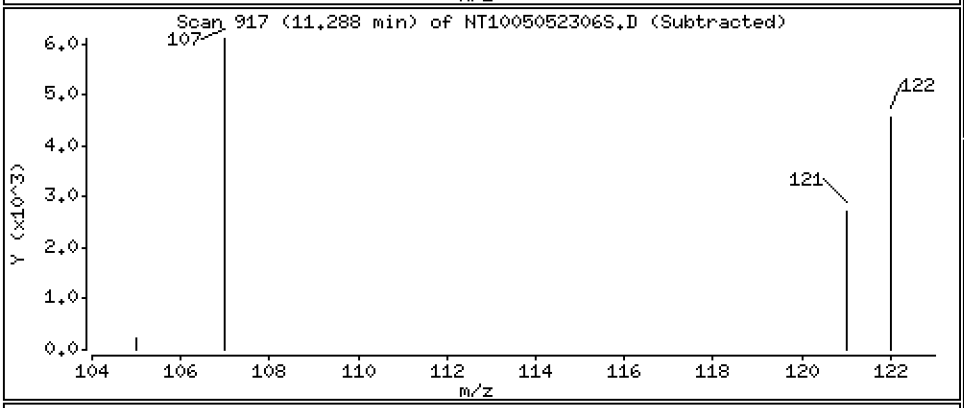
Column diameter: 0.25

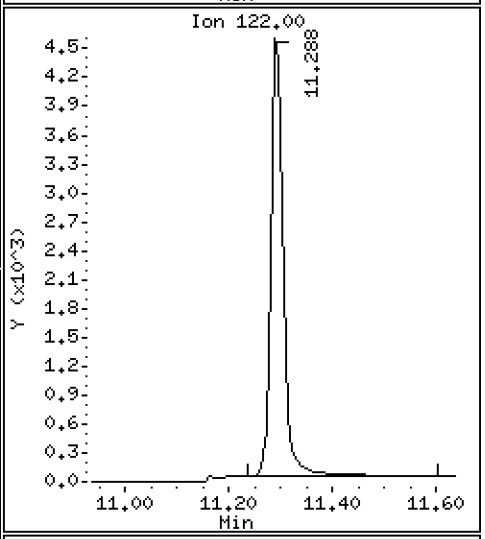
22 2,4-Dimethylphenol

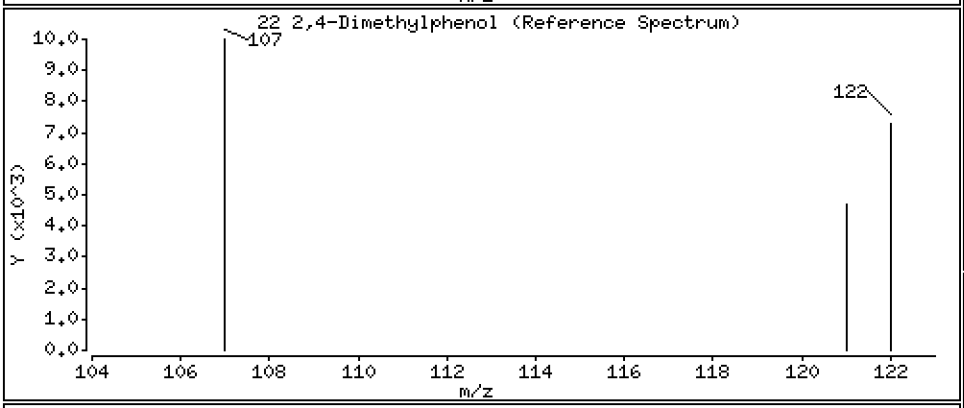
Concentration: 0.1476 ug/L

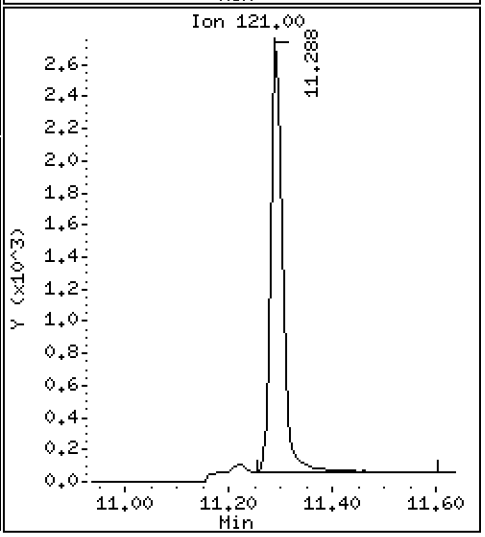


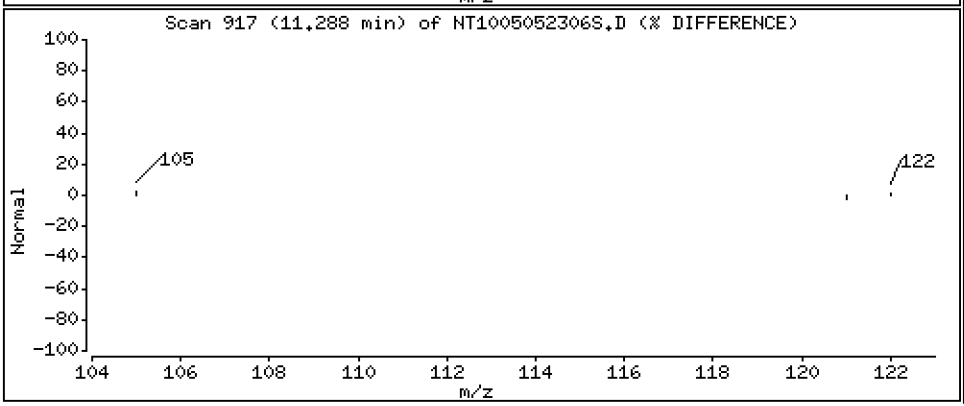












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

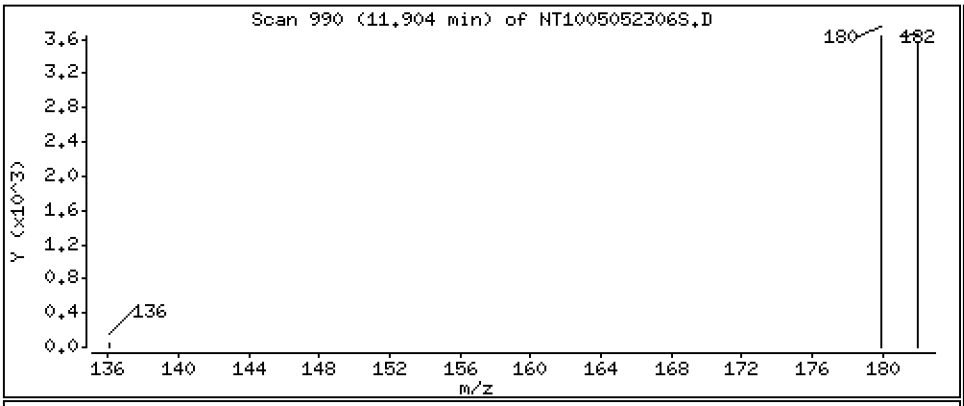
Operator: DSD

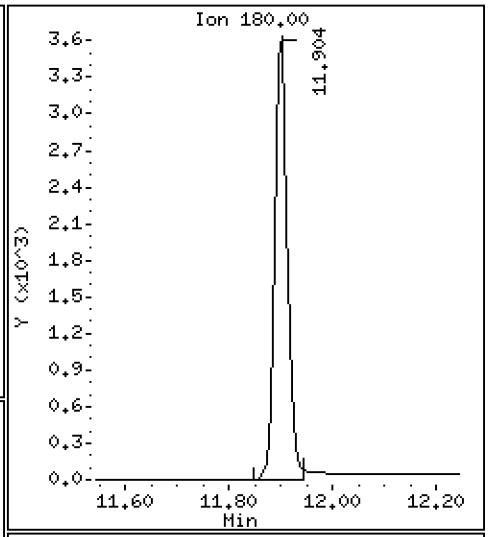
Column phase: ZB-5msi

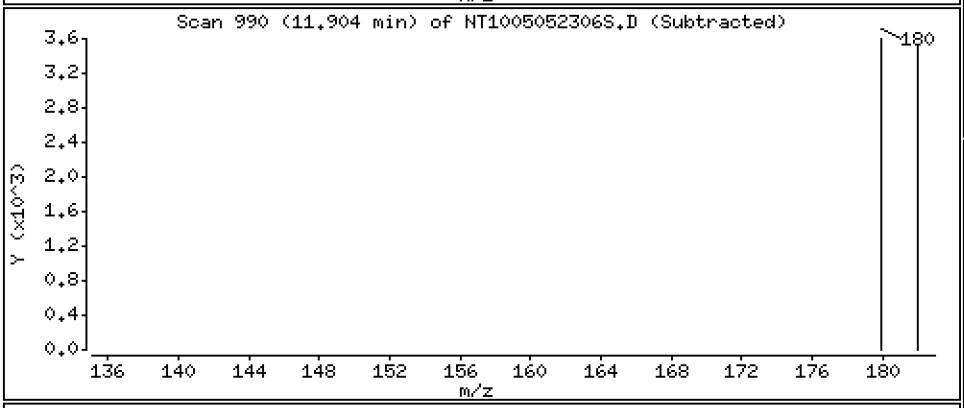
Column diameter: 0.25

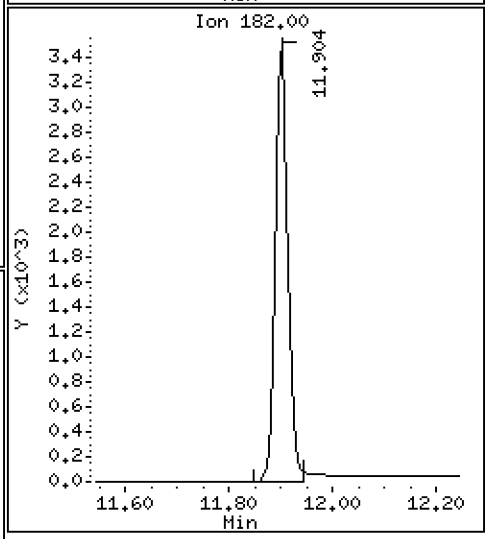
26 1,2,4-Trichlorobenzene

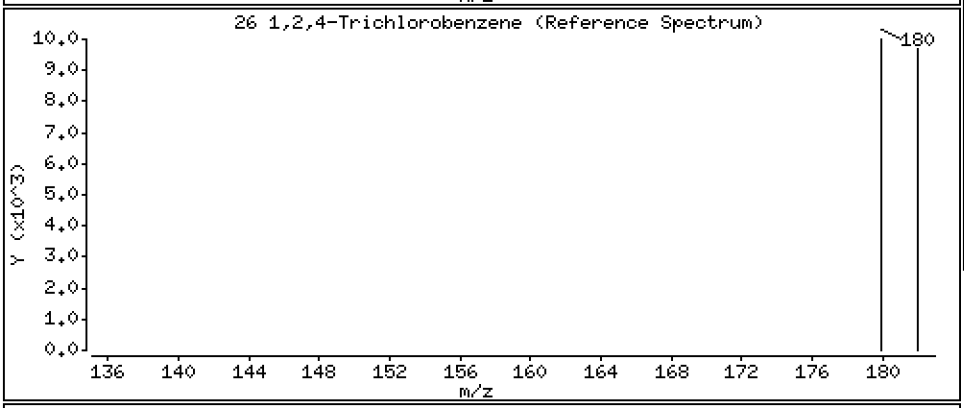
Concentration: 0.09133 ug/L

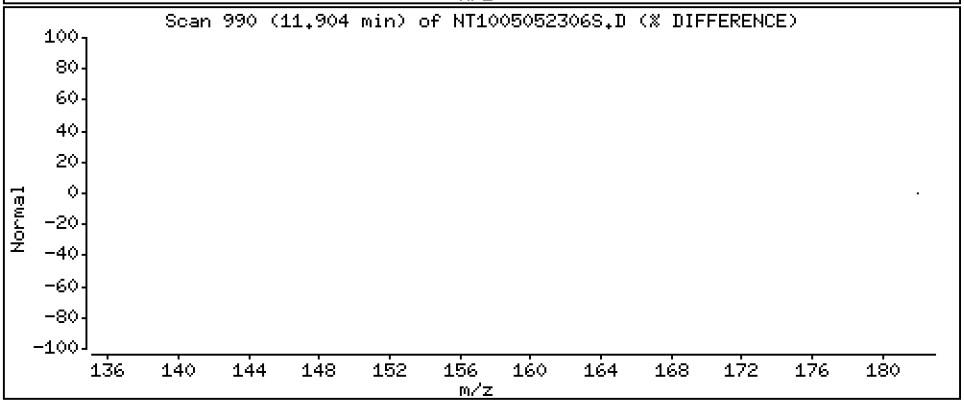












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

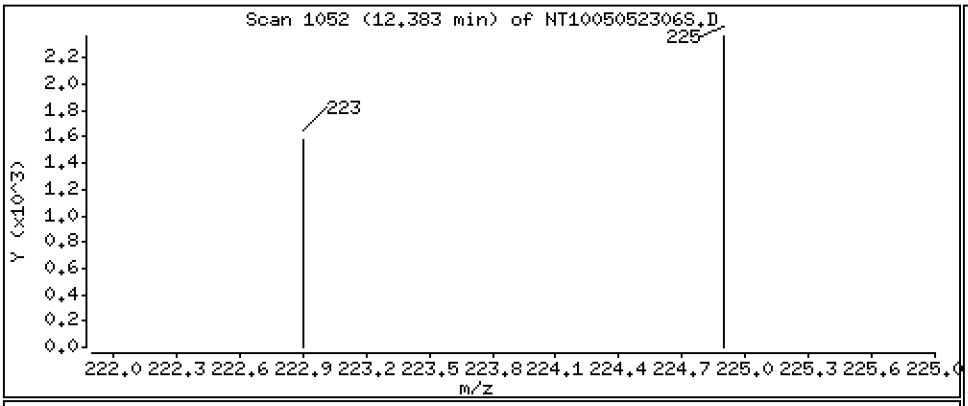
Operator: DSD

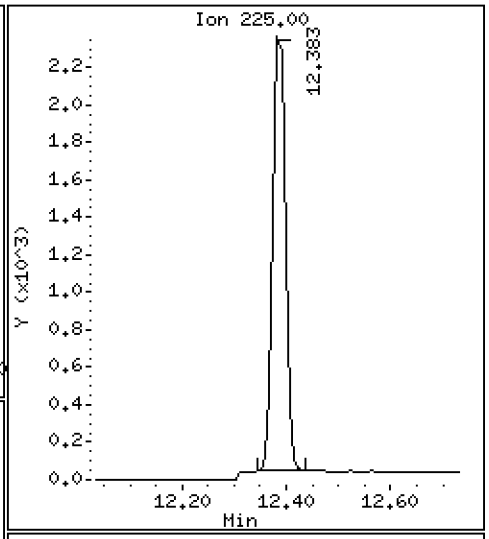
Column phase: ZB-5msi

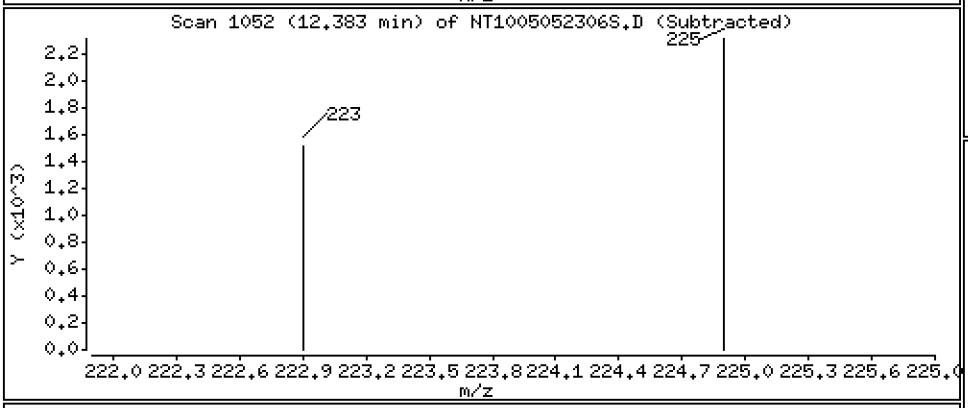
Column diameter: 0.25

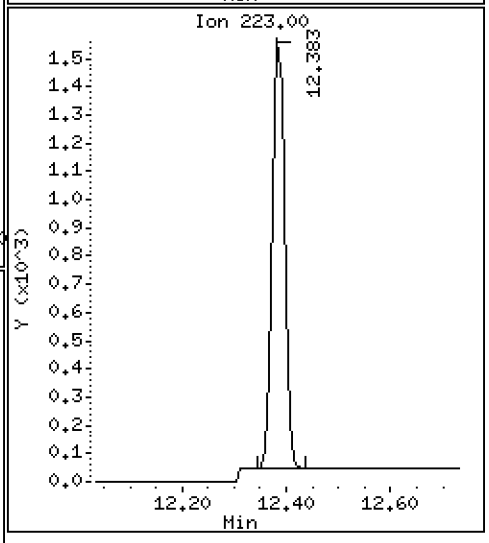
30 Hexachlorobutadiene

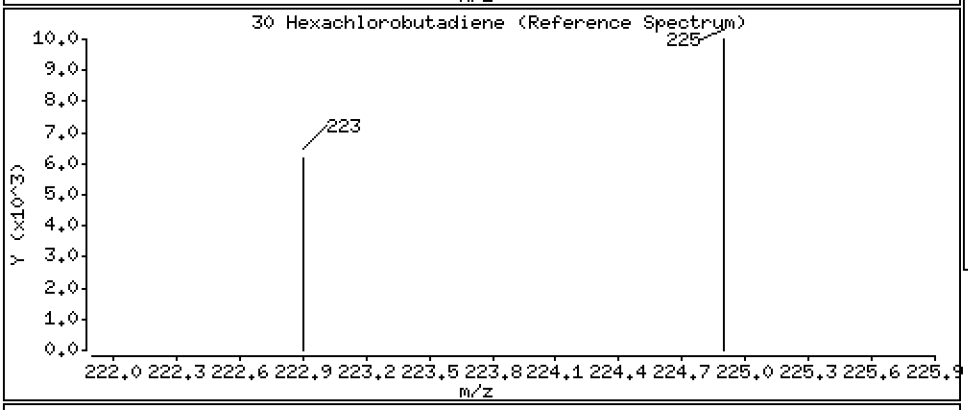
Concentration: 0.08606 ug/L

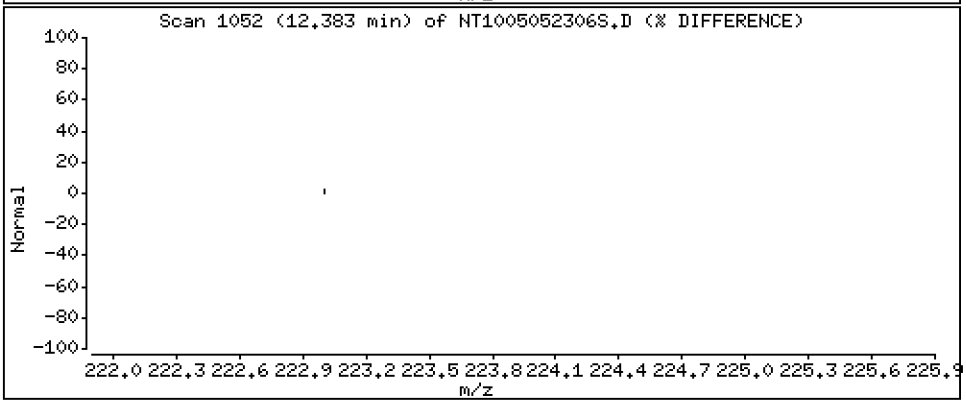












Date : 05-MAY-2023 14:01

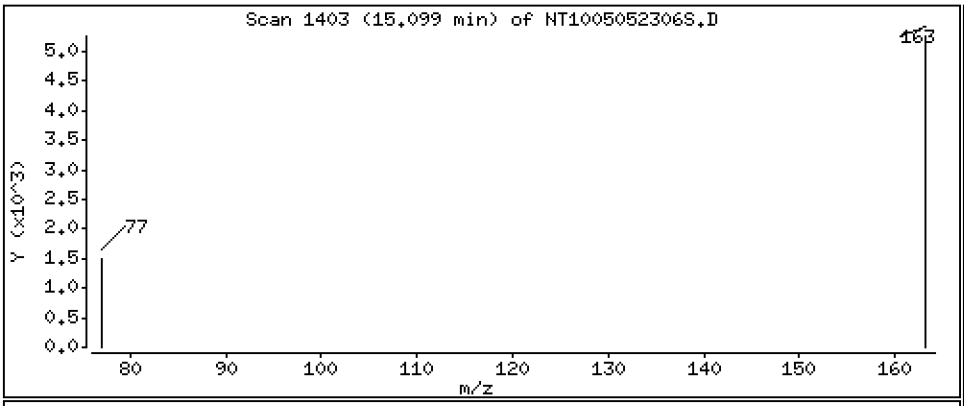
Client ID: Instrument: nt10.i

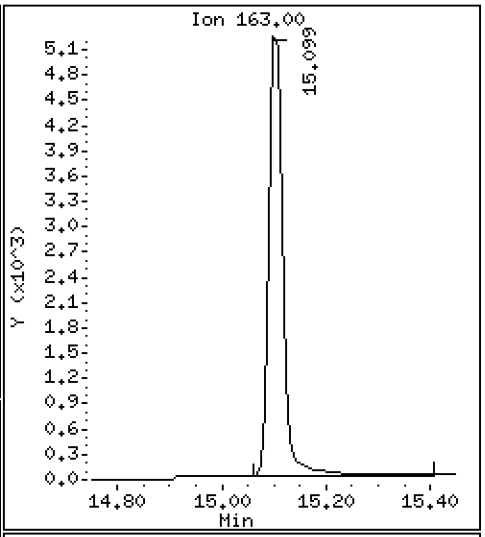
Sample Info: SLE0466-LCV1

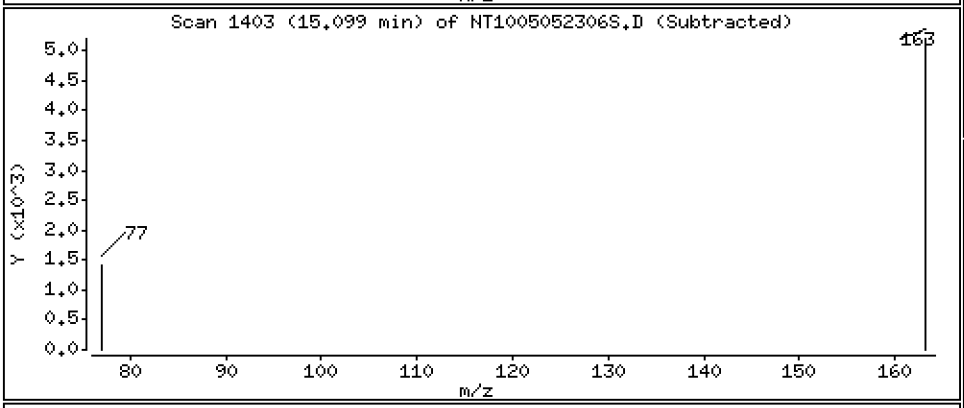
Volume Injected (uL): 1.0 Operator: DSD

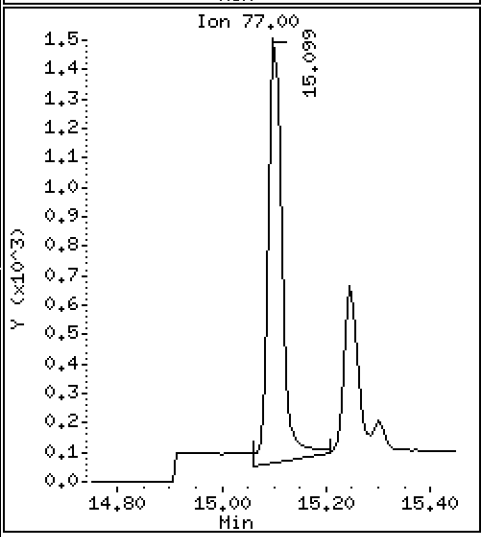
Column phase: ZB-5msi Column diameter: 0.25

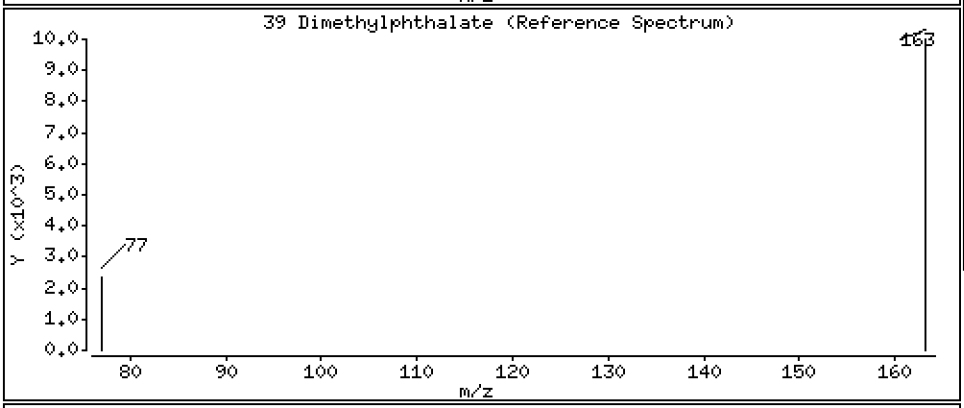
39 Dimethylphthalate Concentration: 0.07371 ug/L

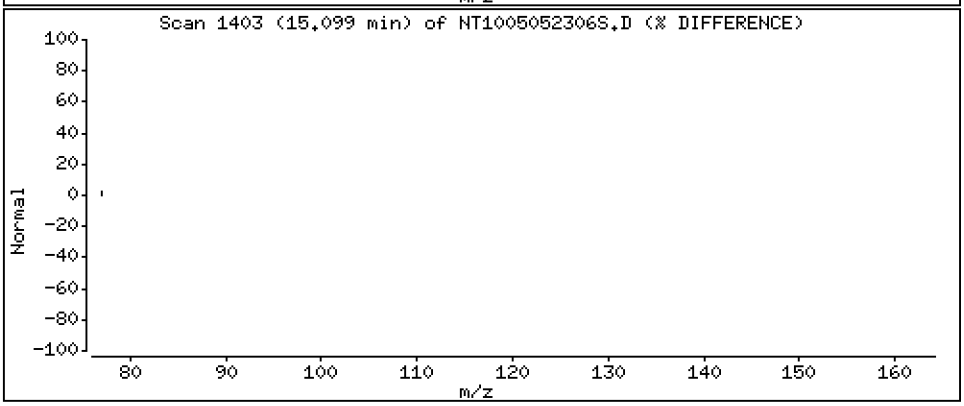












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

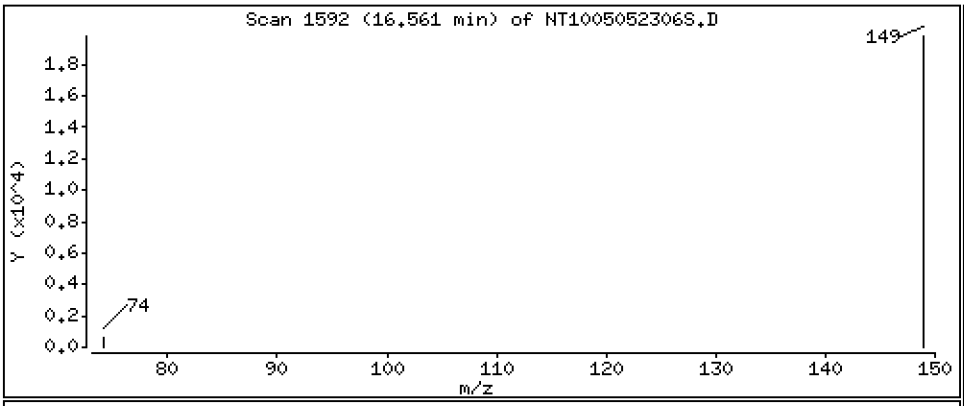
Operator: DSD

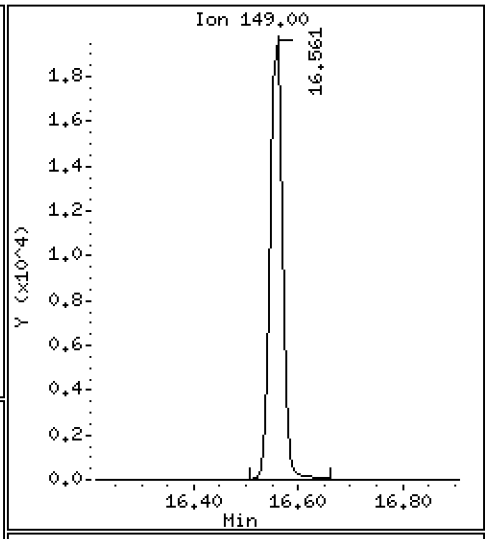
Column phase: ZB-5msi

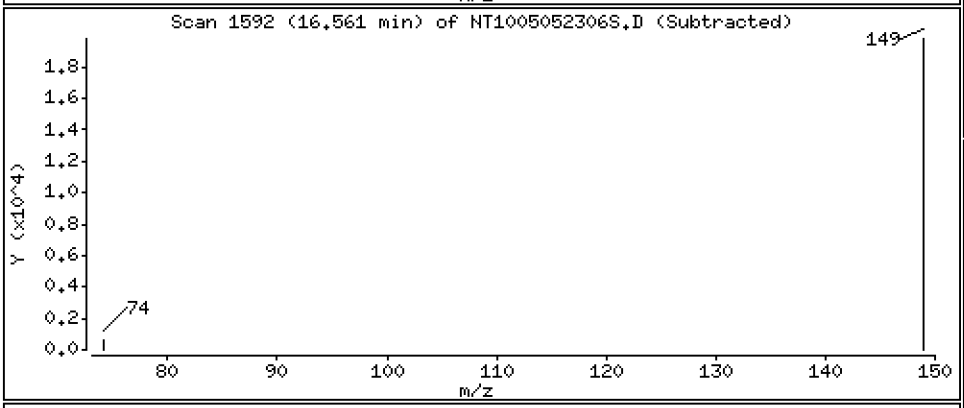
Column diameter: 0.25

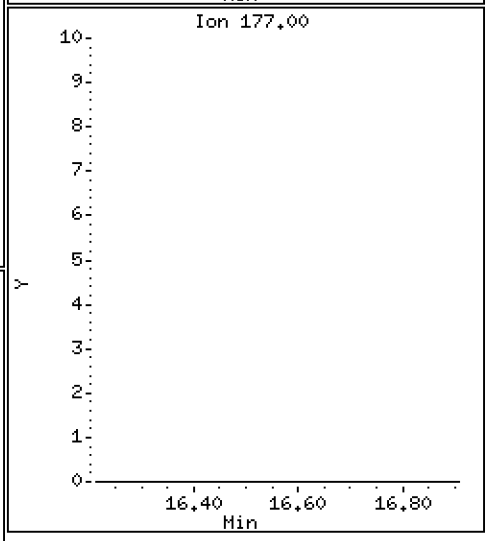
50 Diethylphthalate

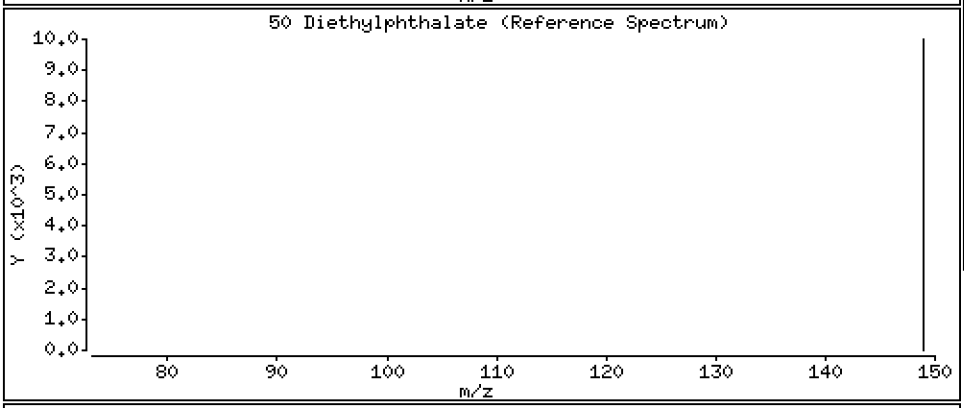
Concentration: 0.2286 ug/L

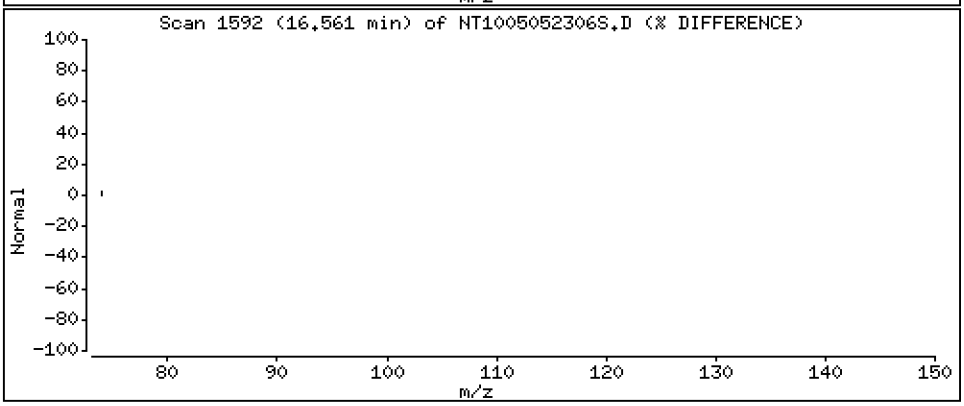












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

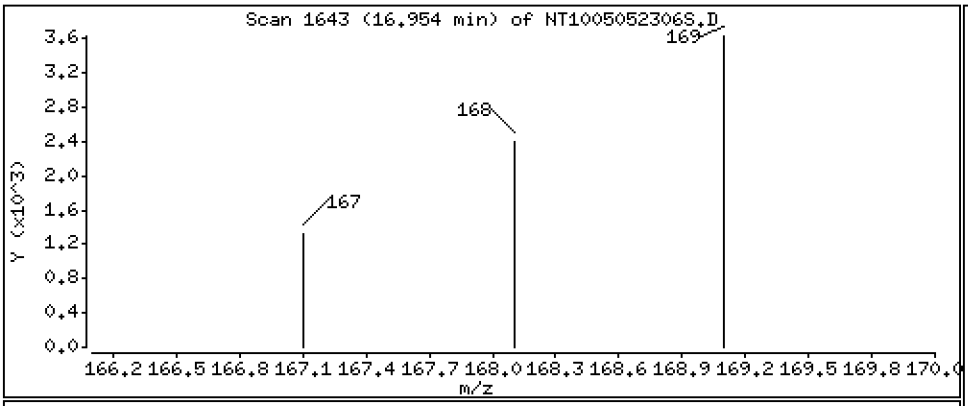
Operator: DSD

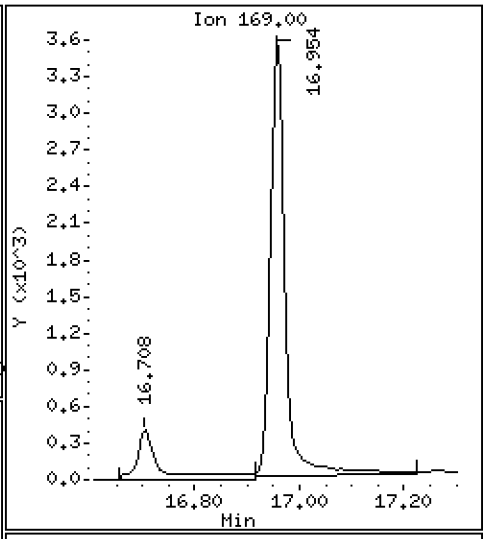
Column phase: ZB-5msi

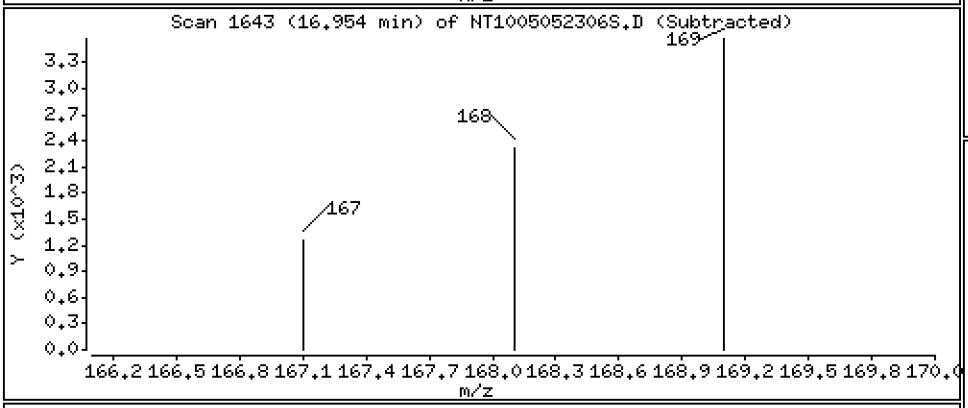
Column diameter: 0.25

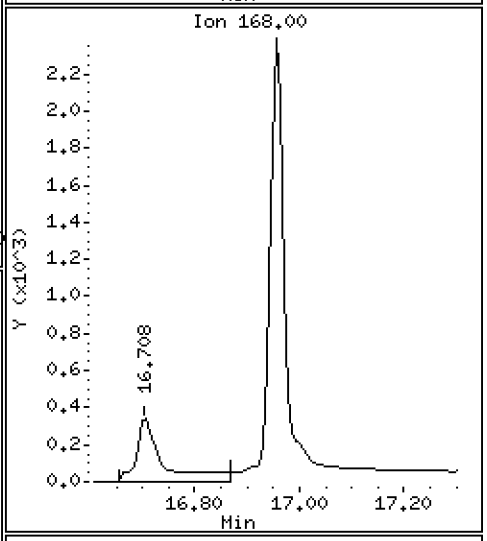
54 N-Nitrosodiphenylamine

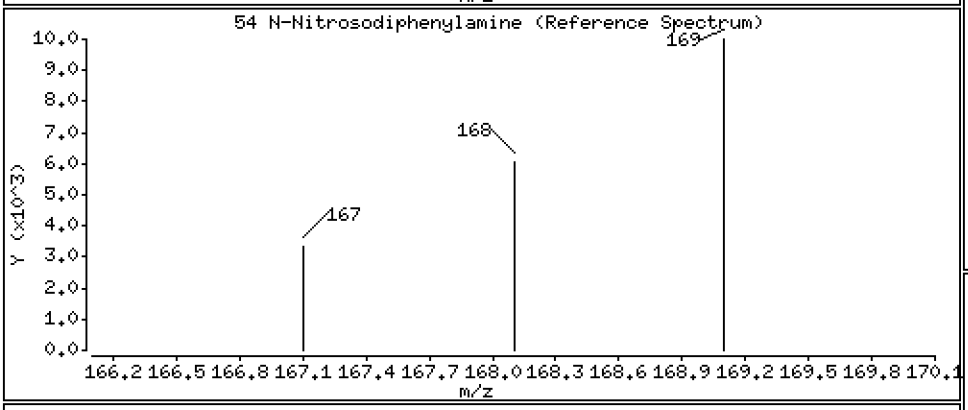
Concentration: 0.07664 ug/L

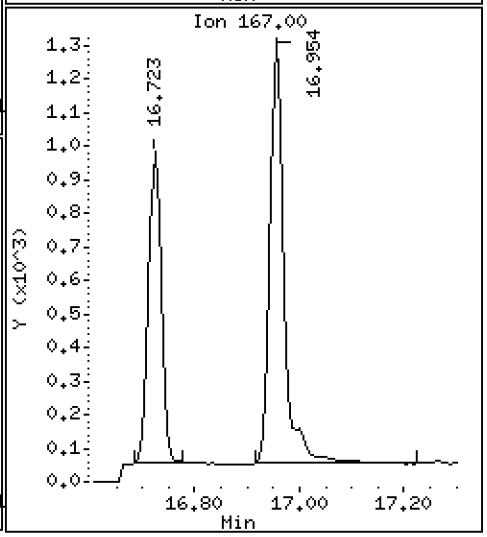


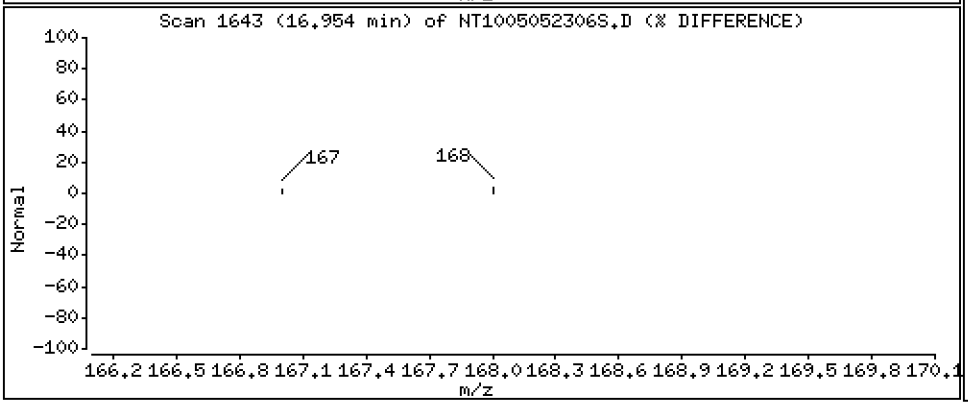












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Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

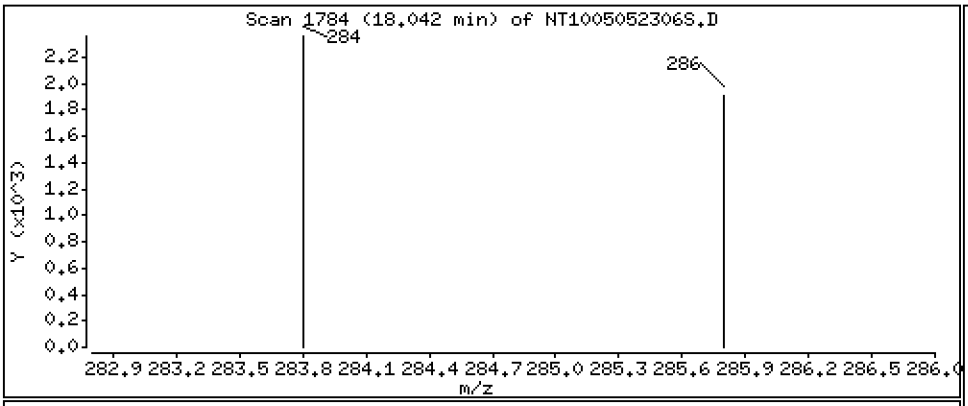
Operator: DSD

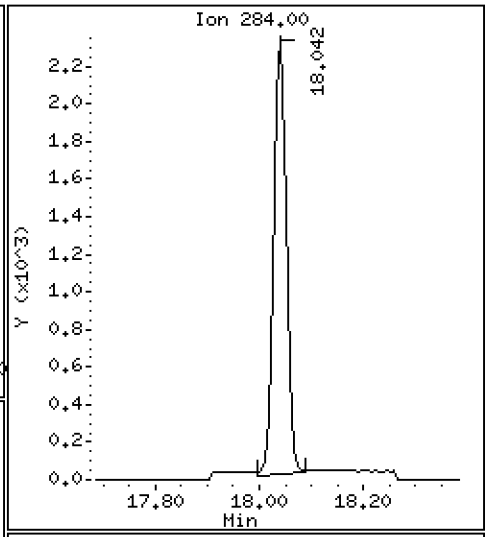
Column phase: ZB-5msi

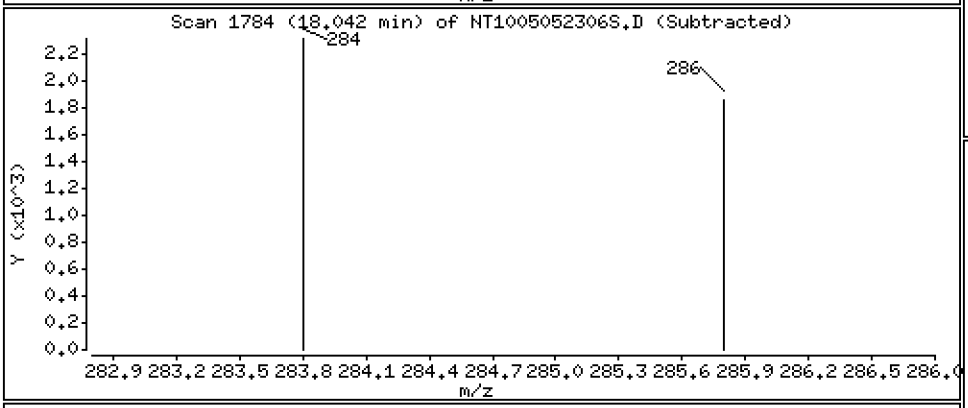
Column diameter: 0.25

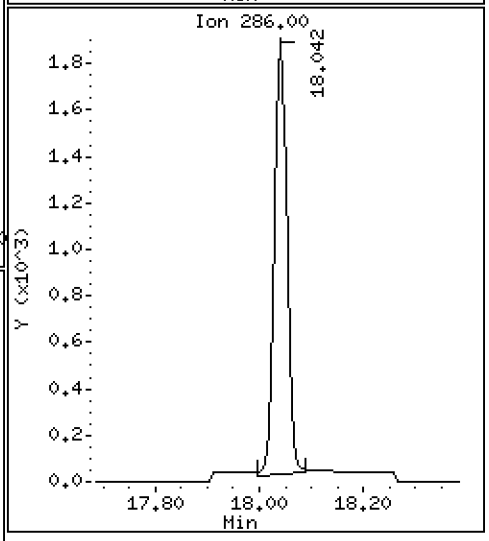
57 Hexachlorobenzene

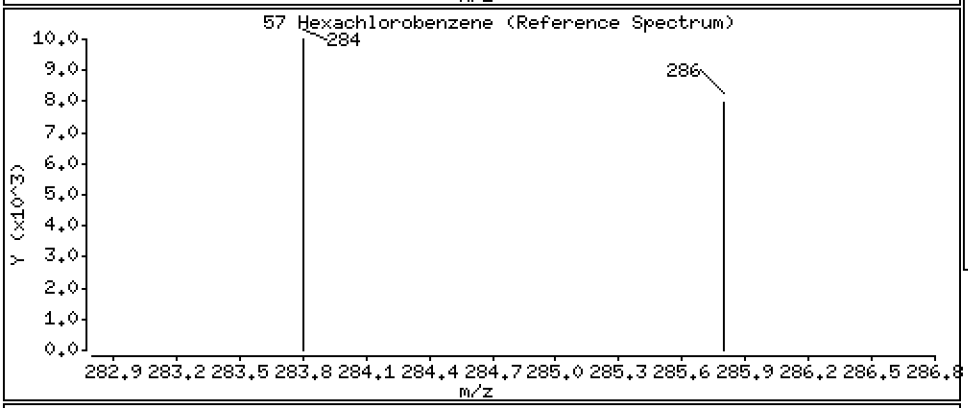
Concentration: 0.08571 ug/L

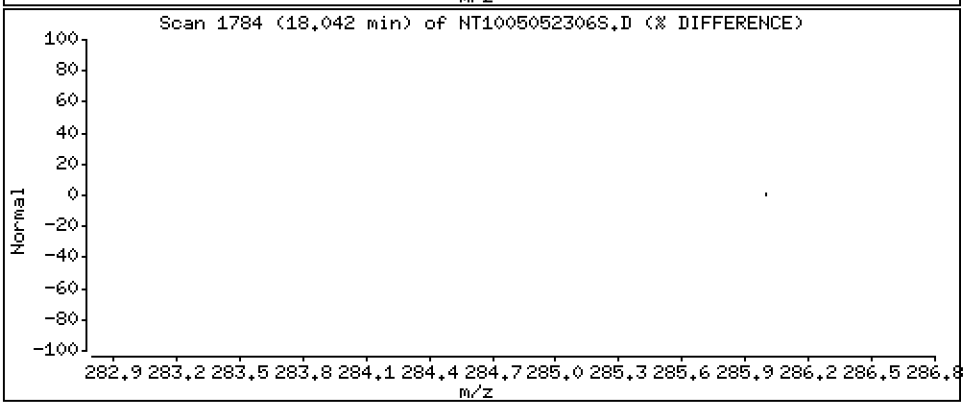












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

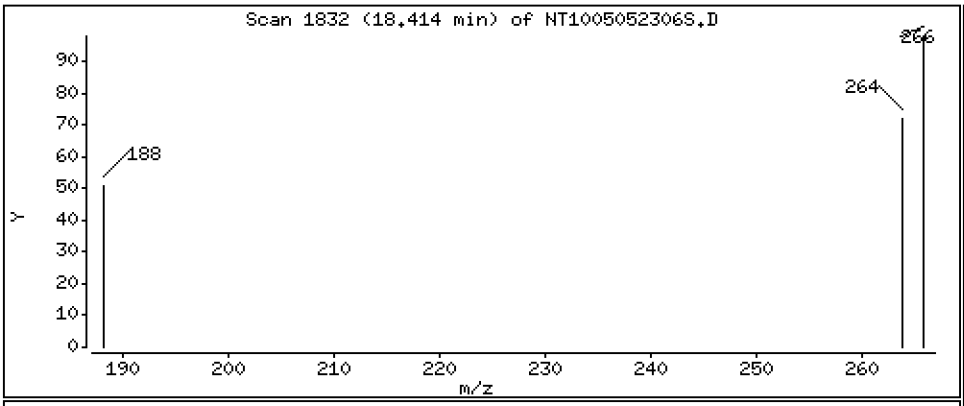
Operator: DSD

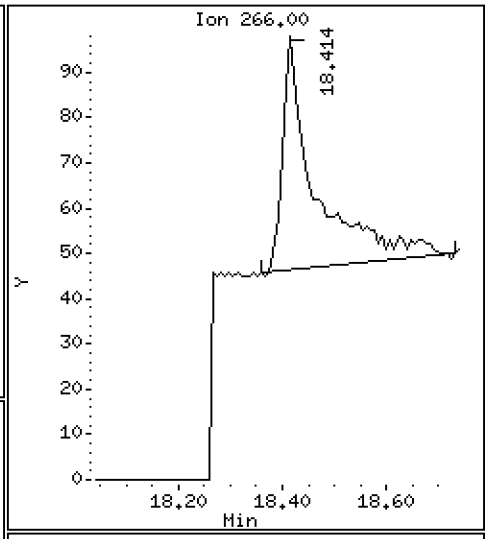
Column phase: ZB-5msi

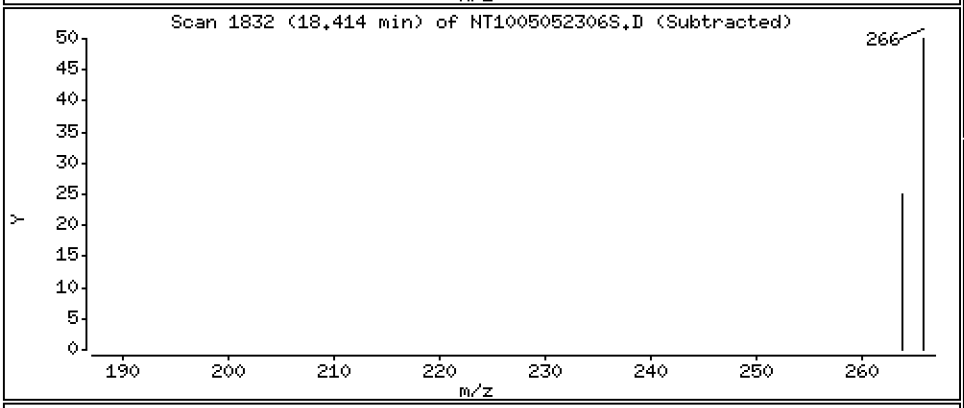
Column diameter: 0.25

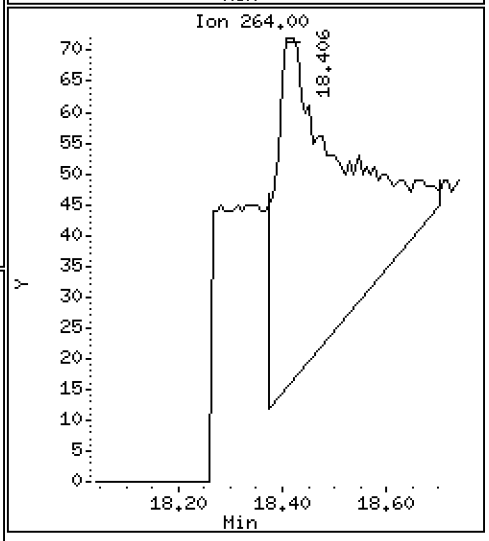
58 Pentachlorophenol

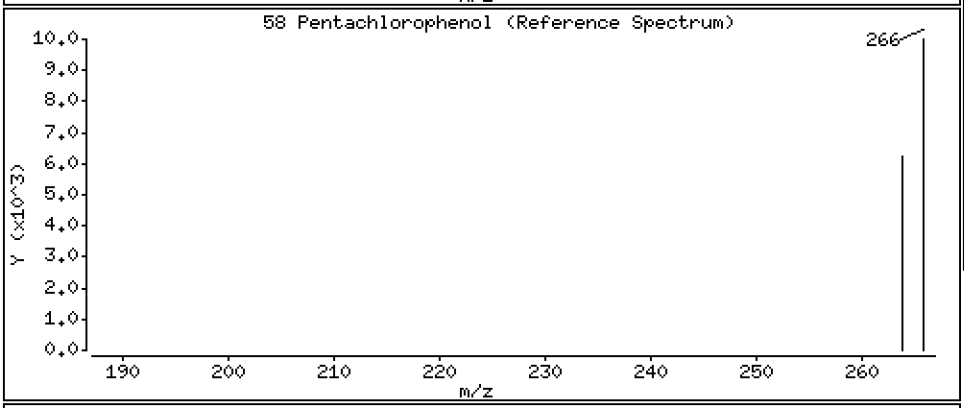
Concentration: 0.008766 ug/L

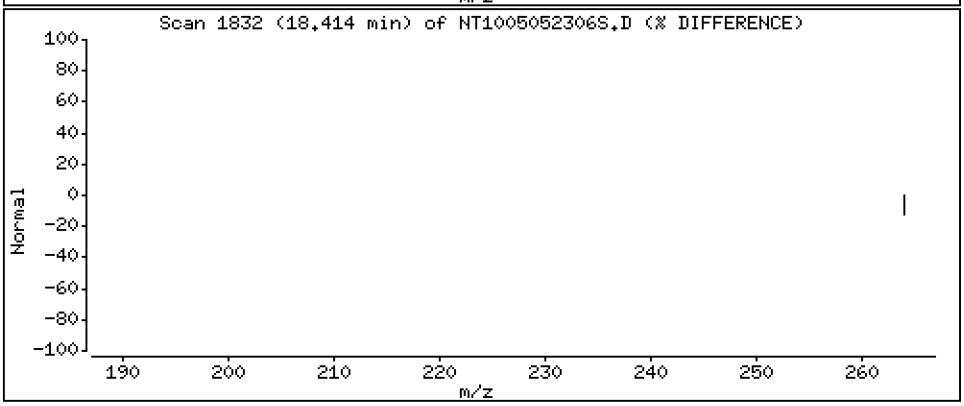












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

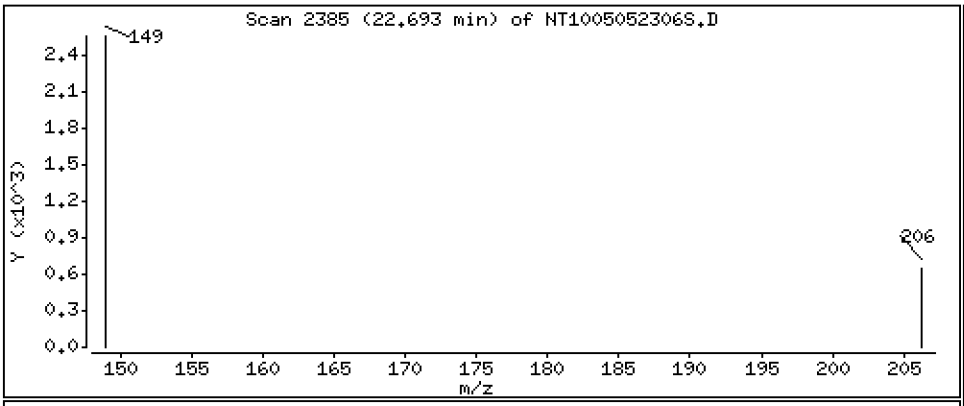
Operator: DSD

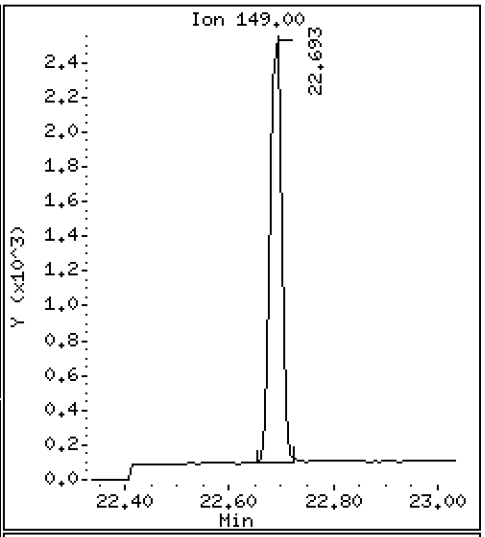
Column phase: ZB-5msi

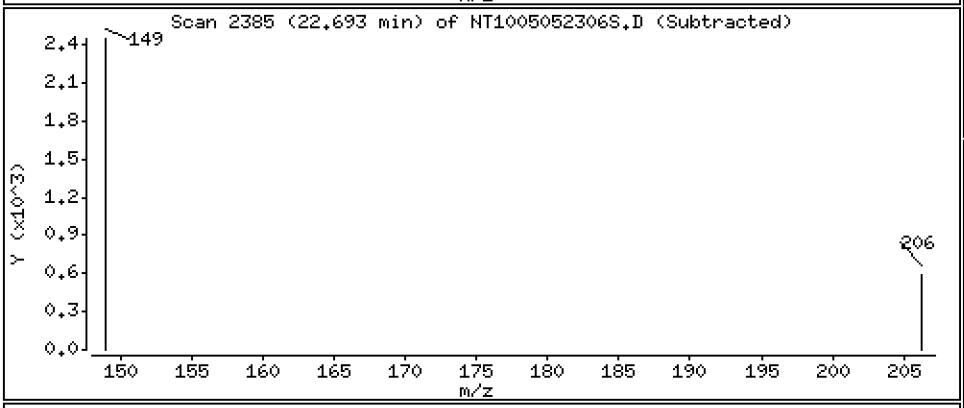
Column diameter: 0.25

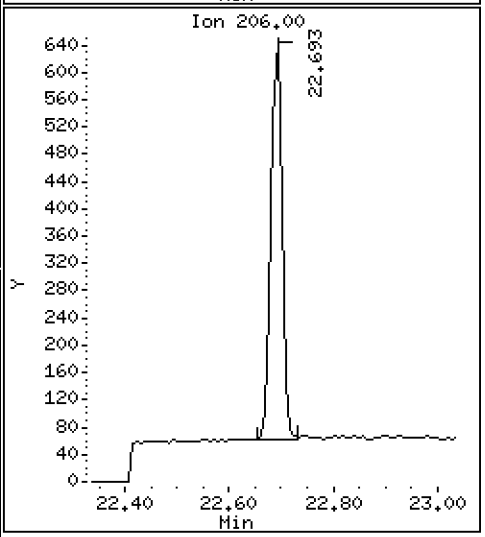
67 Butylbenzylphthalate

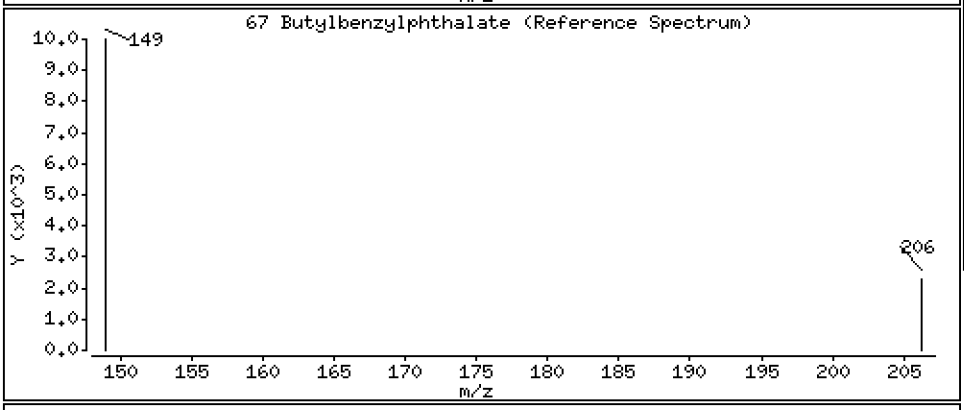
Concentration: 0.03656 ug/L

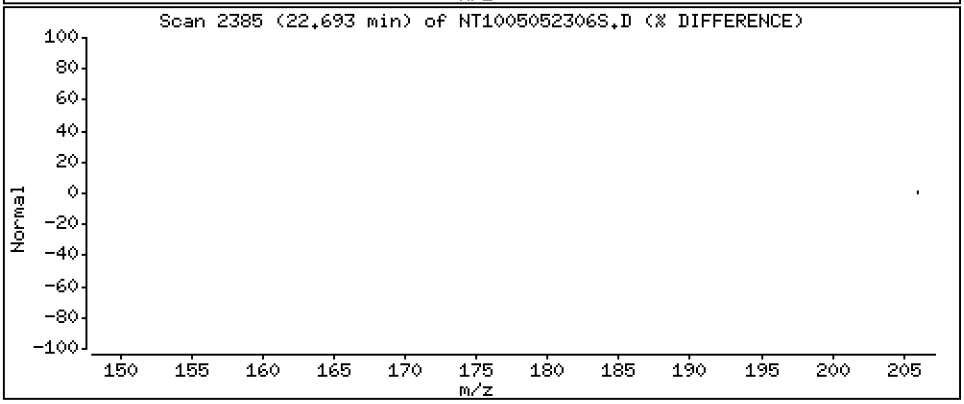












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

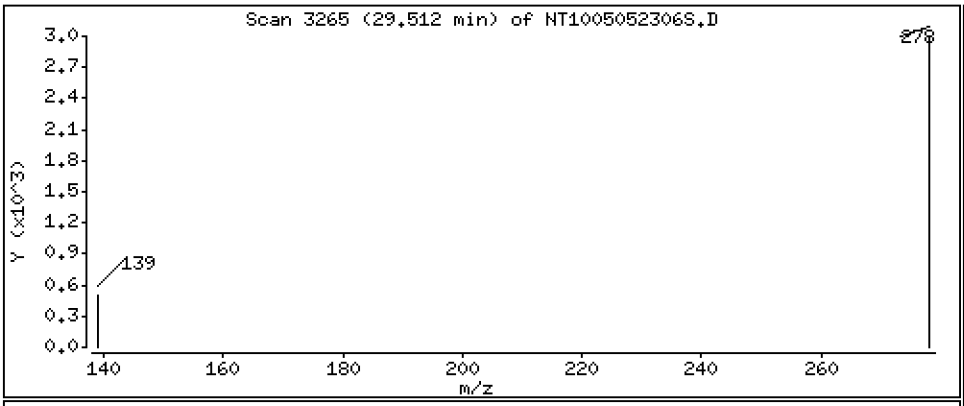
Operator: DSD

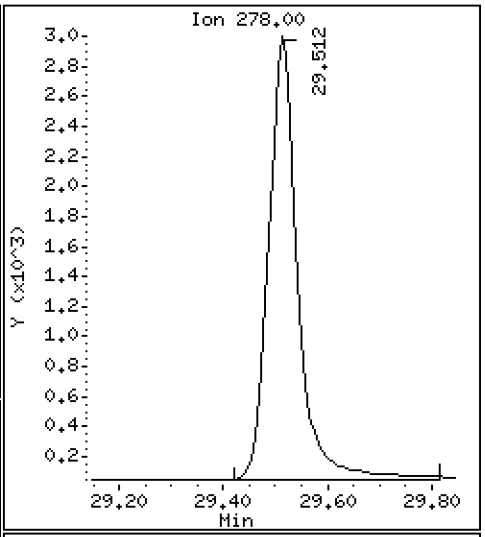
Column phase: ZB-5msi

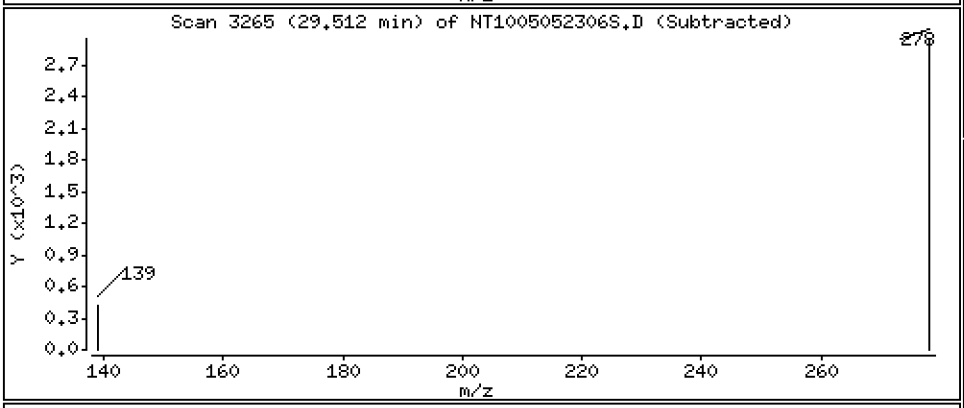
Column diameter: 0.25

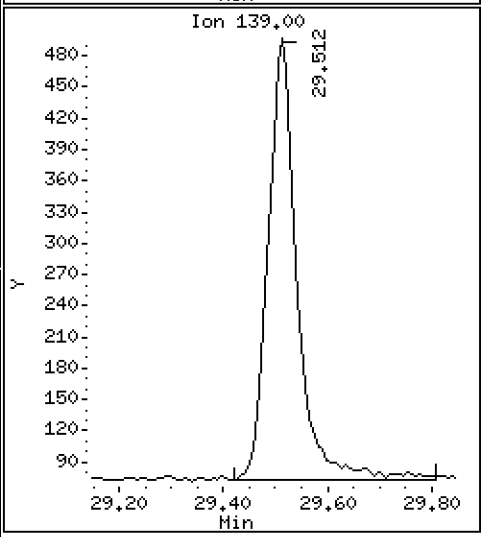
79 Dibenzo(a,h)anthracene

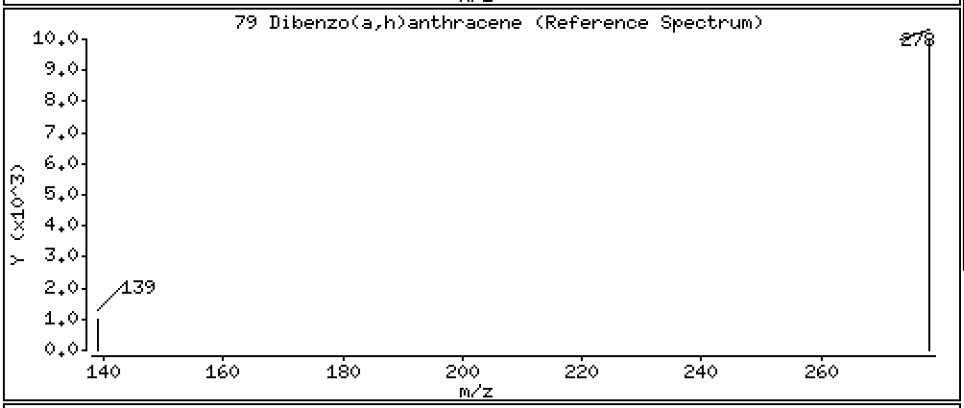
Concentration: 0.07195 ug/L

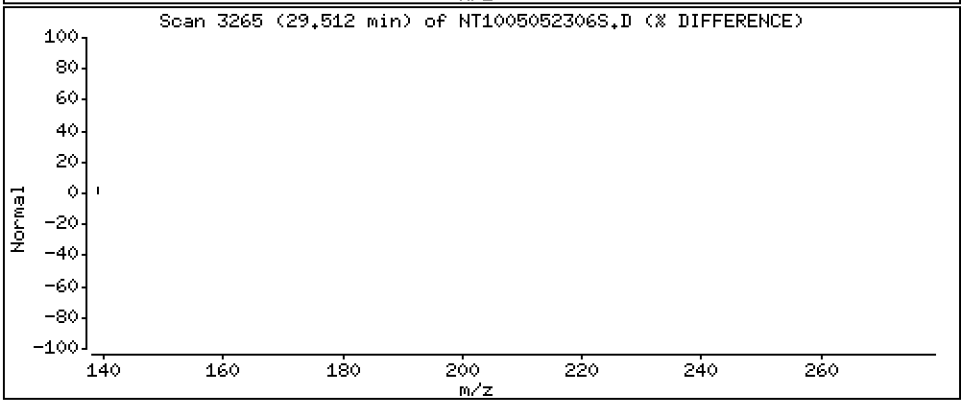












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D

Date : 05-MAY-2023 14:01

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV1

Volume Injected (uL): 1.0

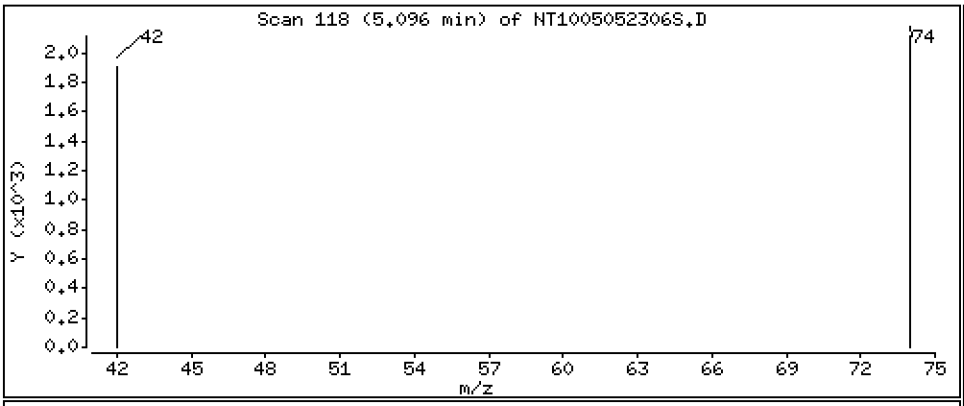
Operator: DSD

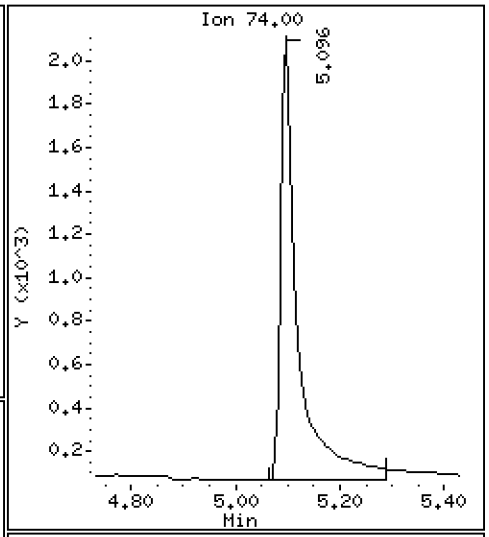
Column phase: ZB-5msi

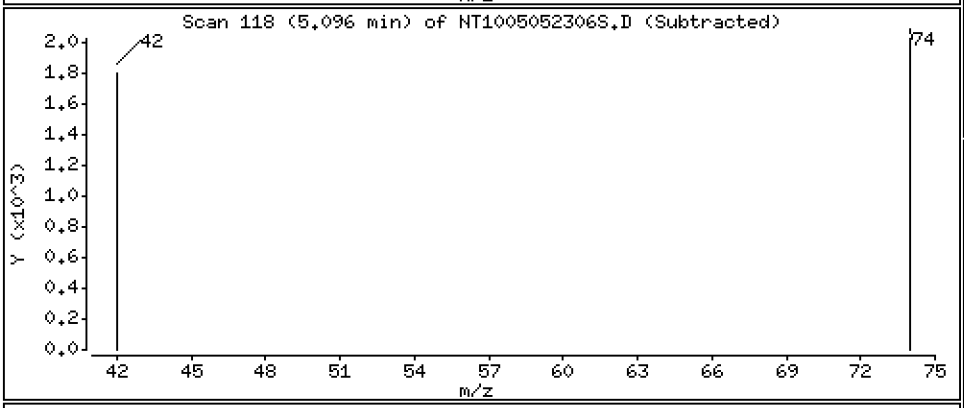
Column diameter: 0.25

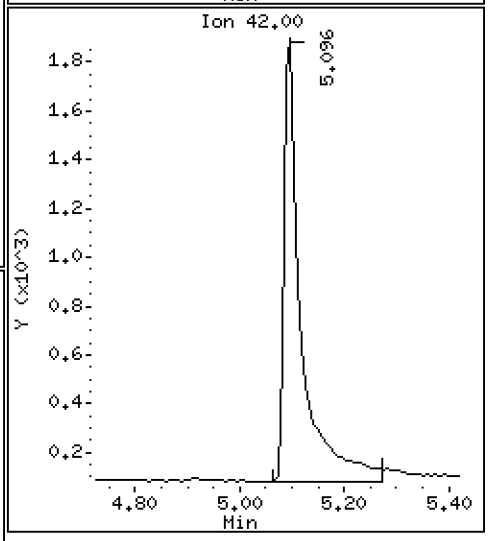
90 N-Nitrosodimethylamine

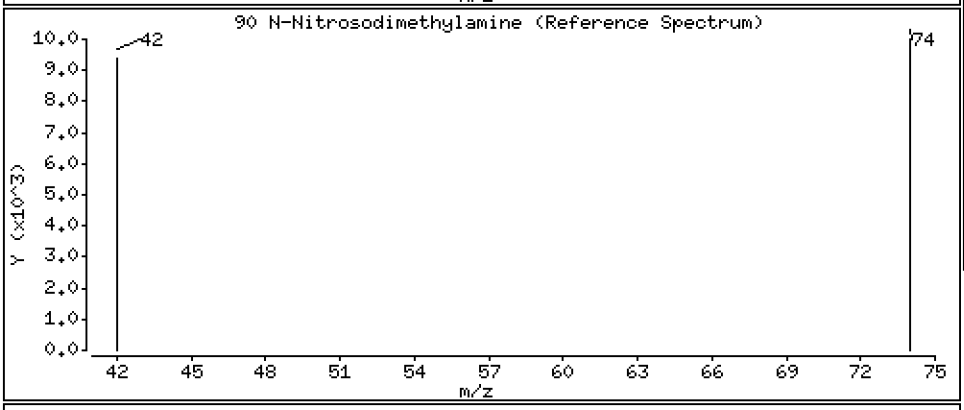
Concentration: 0.1504 ug/L

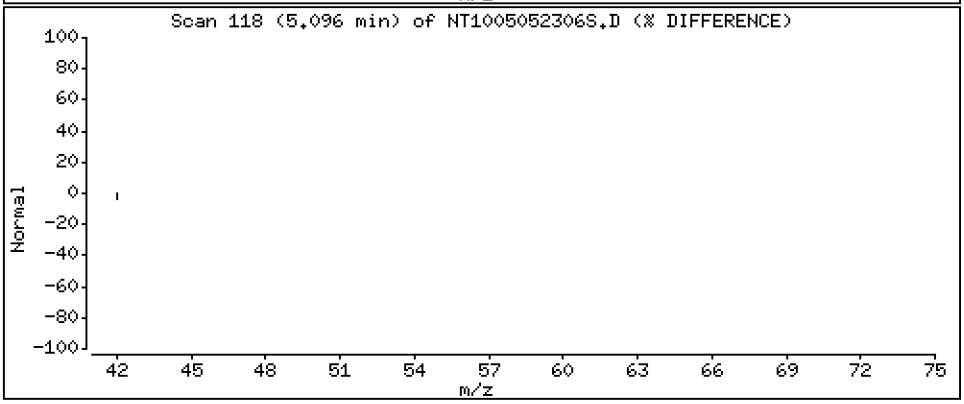












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052306S.D
Lab Smp Id: SLE0466-LCV1
Inj Date : 05-MAY-2023 14:01 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLE0466-LCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.243	7.243	(0.763)	6664	0.11496	0.1150(R)
3	Phenol	94	8.850	8.842	(0.932)	5764	0.07938	0.07938
7	1,3-Dichlorobenzene	146	9.430	9.430	(0.993)	7062	0.09248	0.09248
* 8	1,4-Dichlorobenzene-d4	152	9.492	9.492	(1.000)	190296	4.00000	
9	1,4-Dichlorobenzene	146	9.523	9.523	(1.003)	6818	0.09014	0.09014
11	Benzyl alcohol	79	9.771	9.756	(1.029)	4670	0.09300	0.09300
12	1,2-Dichlorobenzene	146	9.888	9.880	(1.042)	6592	0.09061	0.09061
13	2-Methylphenol	108	9.973	9.965	(1.051)	4514	0.08306	0.08306
15	4-Methylphenol	108	10.245	10.237	(1.079)	4097	0.07170	0.07170
16	N-Nitroso-di-n-propylamine	70	10.315	10.315	(1.087)	3123	0.07575	0.07575
22	2,4-Dimethylphenol	107	11.288	11.288	(0.942)	9743	0.14761	0.1476
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.904	11.896	(0.993)	6185	0.09133	0.09133
* 27	Naphthalene-d8	136	11.988	11.988	(1.000)	664307	4.00000	
30	Hexachlorobutadiene	225	12.382	12.382	(1.033)	3721	0.08606	0.08606
39	Dimethylphthalate	163	15.099	15.099	(0.967)	9261	0.07371	0.07371
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	331419	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	30835	0.22858	0.2286
54	N-Nitrosodiphenylamine	169	16.954	16.954	(0.908)	6714	0.07664	0.07664
57	Hexachlorobenzene	284	18.042	18.034	(0.966)	3677	0.08571	0.08571

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.414	18.390	(0.986)	225	0.00877	0.008766(M)
*	59 Phenanthrene-d10	188	18.669	18.669	(1.000)	671733	4.00000	
$	66 Terphenyl-d14	244	21.779	21.771	(0.919)	8608	0.07335	0.07335(R)
	67 Butylbenzylphthalate	149	22.693	22.685	(0.958)	3496	0.03656	0.03656
*	69 Chrysene-d12	240	23.692	23.684	(1.000)	544279	4.00000	
*	77 Perylene-d12	264	26.525	26.517	(1.000)	495313	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.511	29.496	(1.113)	11504	0.07195	0.07195
	90 N-Nitrosodimethylamine	74	5.095	5.080	(0.537)	4757	0.15043	0.1504

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052306S.D
Lab Smp Id: SLE0466-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	190296	4.16
27 Naphthalene-d8	662220	331110	1324440	664307	0.32
42 Acenaphthene-d10	335558	167779	671116	331419	-1.23
59 Phenanthrene-d10	678190	339095	1356380	671733	-0.95
69 Chrysene-d12	566969	283485	1133938	544279	-4.00
77 Perylene-d12	522906	261453	1045812	495313	-5.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.49	0.00
27 Naphthalene-d8	11.99	11.49	12.49	11.99	0.00
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.67	0.00
69 Chrysene-d12	23.68	23.18	24.18	23.69	0.03
77 Perylene-d12	26.52	26.02	27.02	26.53	0.03

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

REVIEW SUMMARY FOR FILE - NT1005052306S.D

Lab ID: SLE0466-LCV1
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 14:01

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

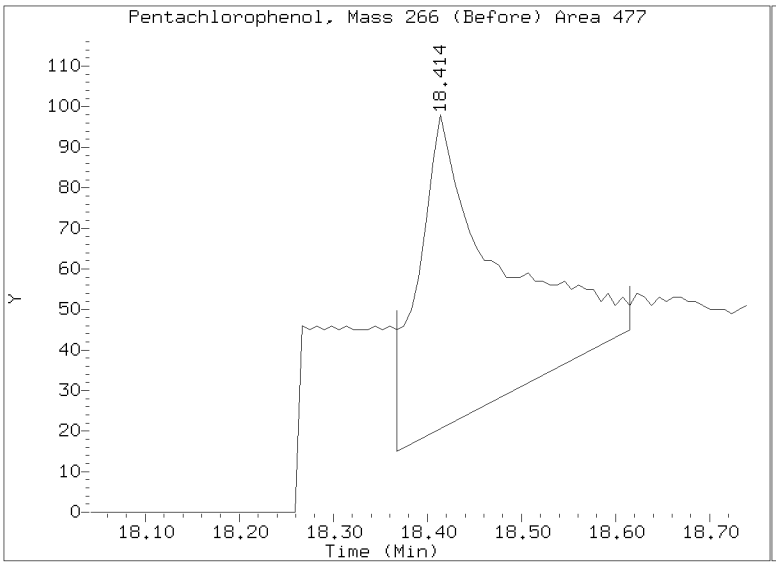
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

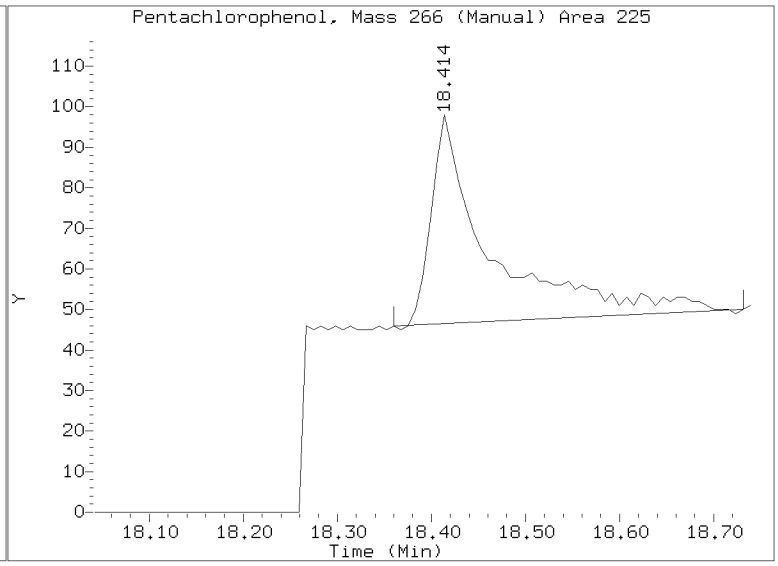
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052306S.D
Injection Date: 05-MAY-2023 14:01
Lab ID:SLE0466-LCV1 Client ID:
Report Date: 05/31/2023 14:30





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GE00018
Lab File ID:	NT1005052304S.D	Calibration Date:	05/04/2023
Sequence:	SLE0466	Injection Date:	05/05/23
Lab Sample ID:	SLE0466-LCV2	Injection Time:	12:43
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	0.50000	0.5	1.5898270	1.4389890		-9.5	
1,2-Dichlorobenzene	A	0.50000	0.5	1.5291420	1.4011230		-8.4	
Benzyl Alcohol	A	0.50000	0.5	1.0555230	0.9532179		-9.7	
Benzoic acid	A	2.0000	0.08	0.1834660	0.0103434		-96.0	
2,4-Dimethylphenol	A	1.0000	0.9	0.3974465	0.3566811		-10.3	
1,2,4-Trichlorobenzene	A	0.50000	0.4	0.4077591	0.3509372		-13.9	
N-Nitrosodiphenylamine	A	0.50000	0.5	0.5216563	0.4780365		-8.4	
Pentachlorophenol	A	1.0000	0.4	0.1295337	0.0554658		-63.8	
2-Fluorophenol	A	0.75000	0.664	1.2184940	1.0783370		-11.5	
p-Terphenyl-d14	A	0.50000	0.406	0.8625046	0.7004529		-18.8	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT10050523045.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

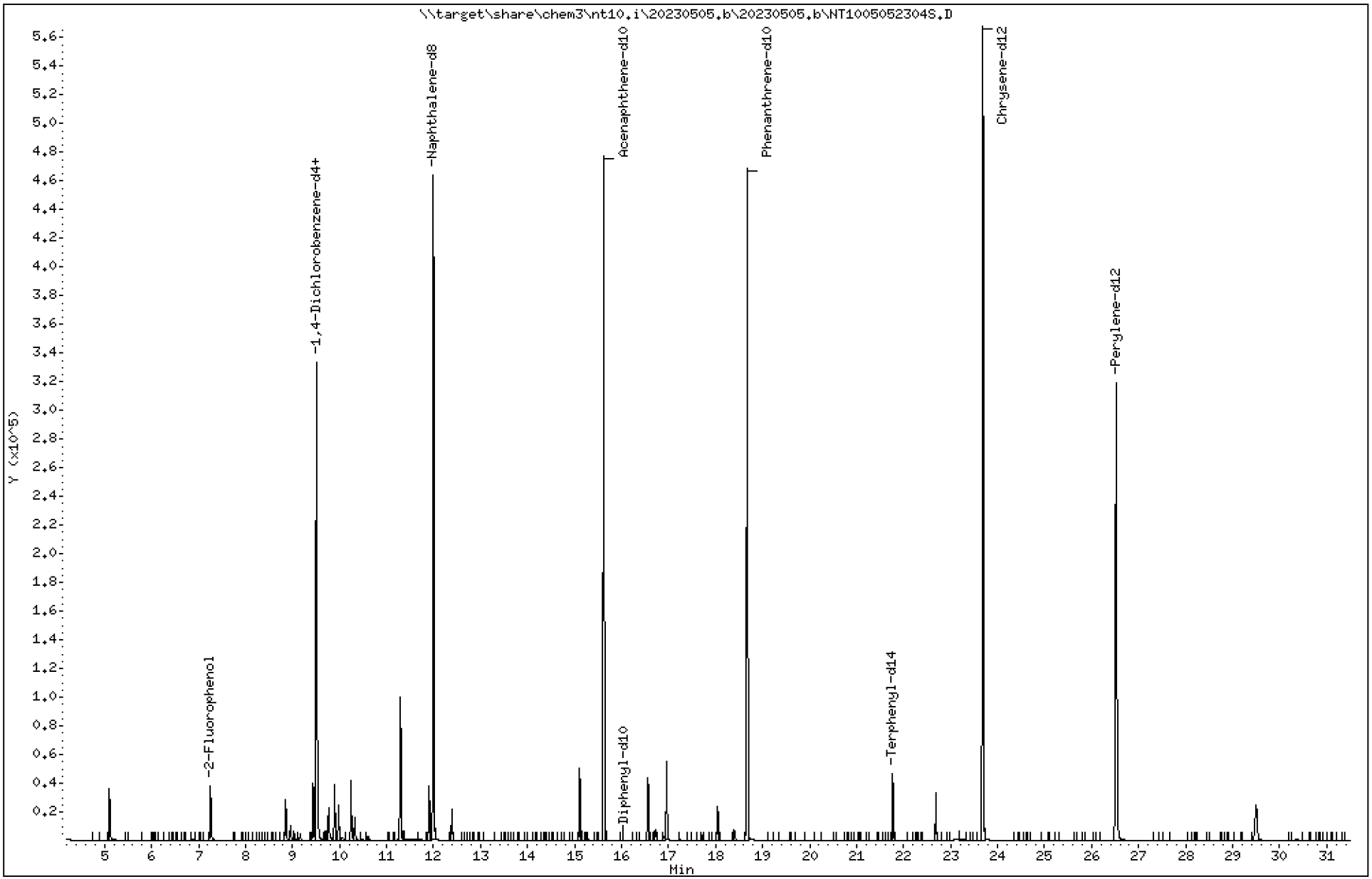
Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

Operator: DSD

Column phase: ZB-5msi

Column diameter: 0.25



23D0136 CLPLIKE (Rev0) - Page 1973 of 4865

Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

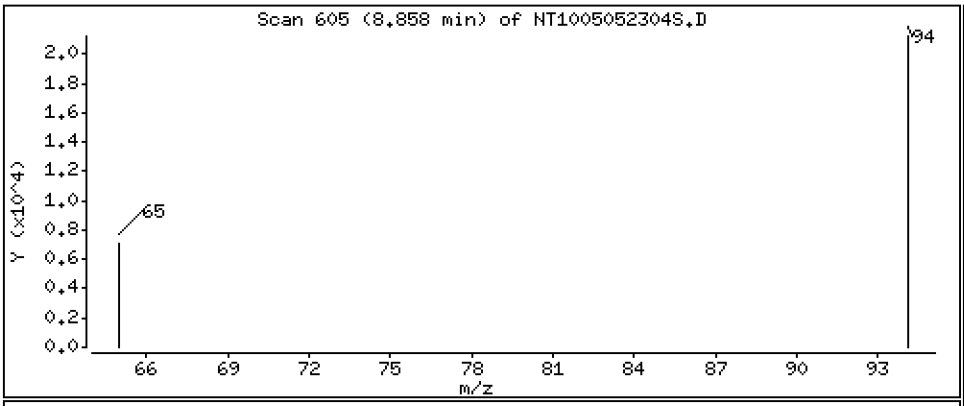
Operator: DSD

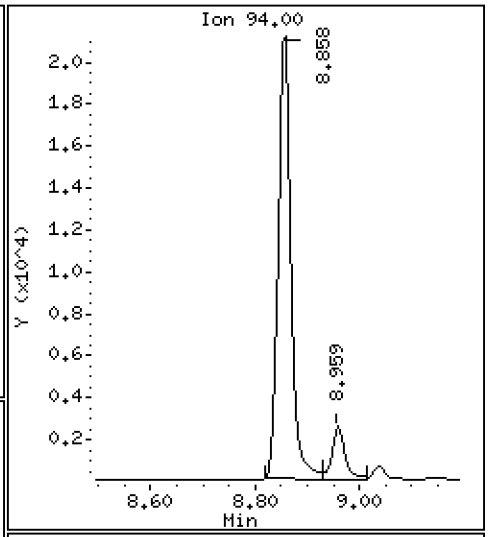
Column phase: ZB-5msi

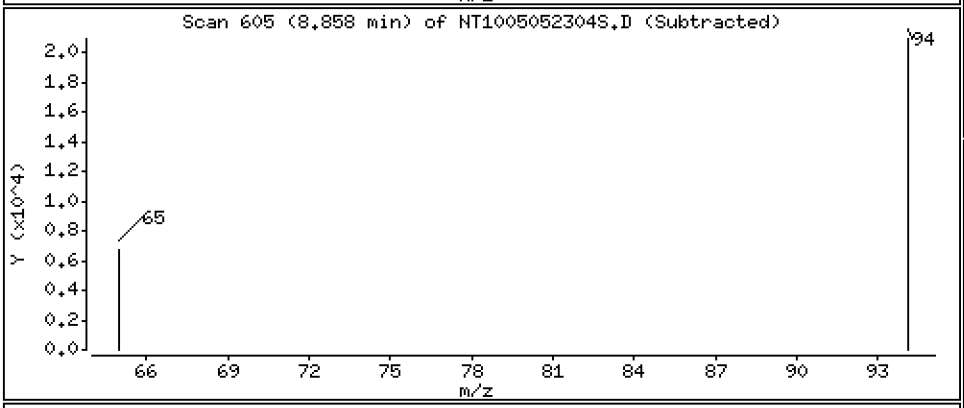
Column diameter: 0.25

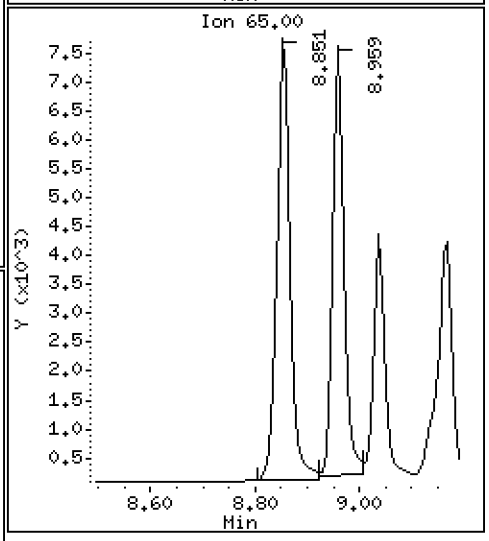
3 Phenol

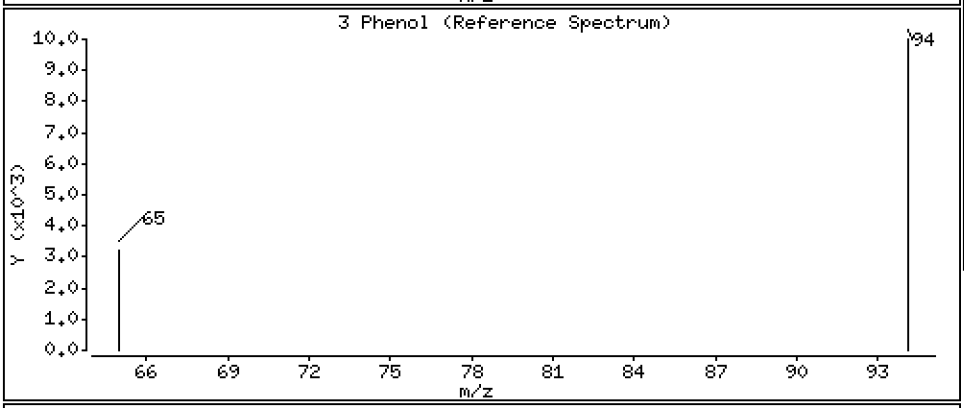
Concentration: 0.4689 ug/L

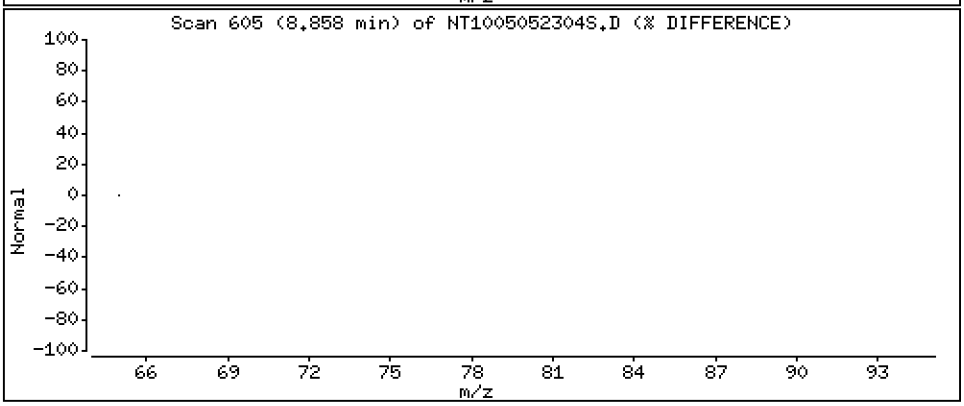












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

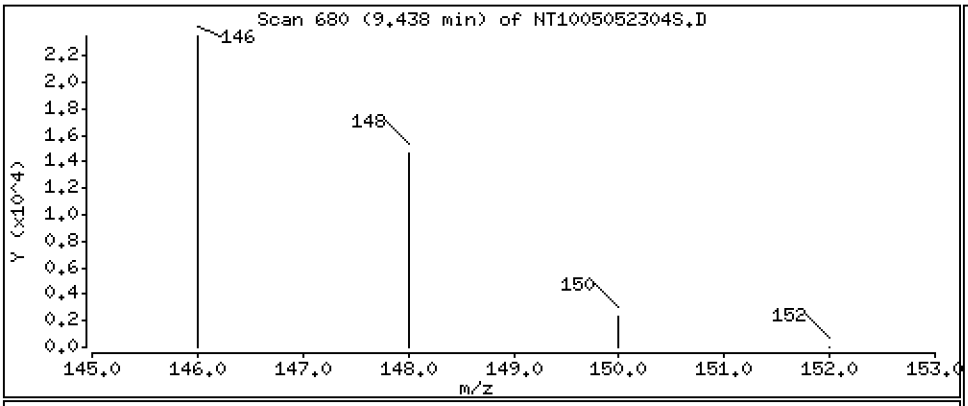
Operator: DSD

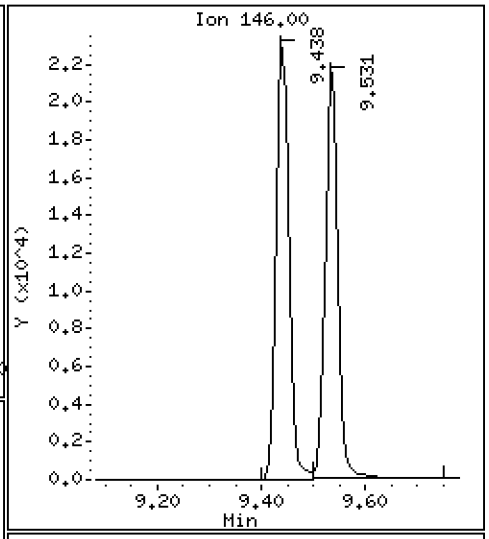
Column phase: ZB-5msi

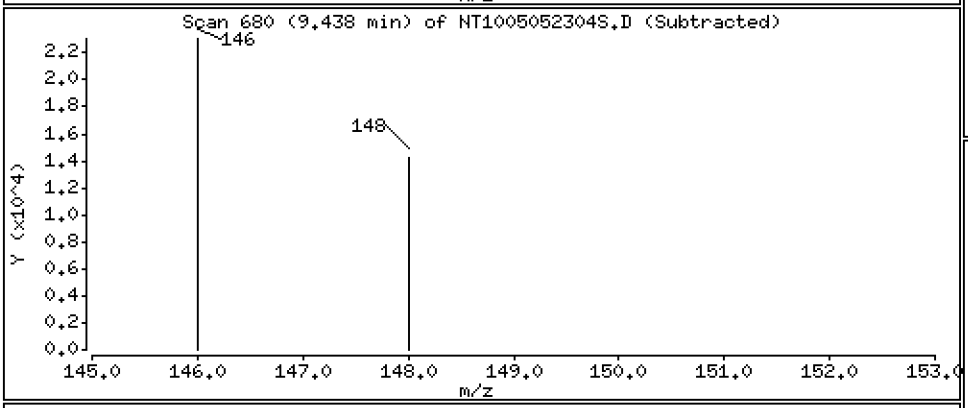
Column diameter: 0.25

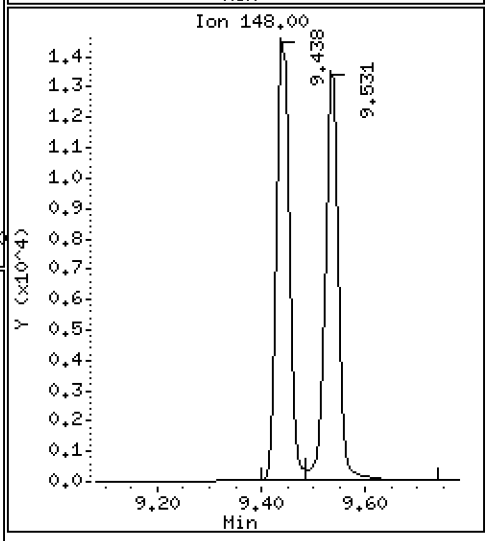
7 1,3-Dichlorobenzene

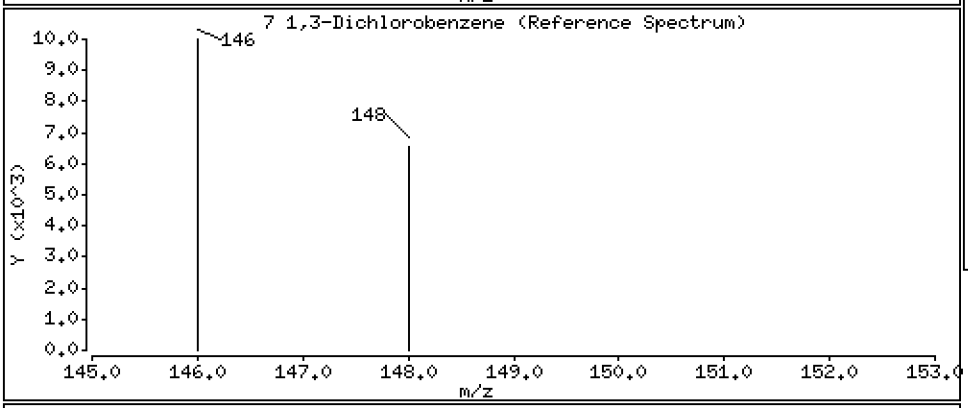
Concentration: 0.4558 ug/L

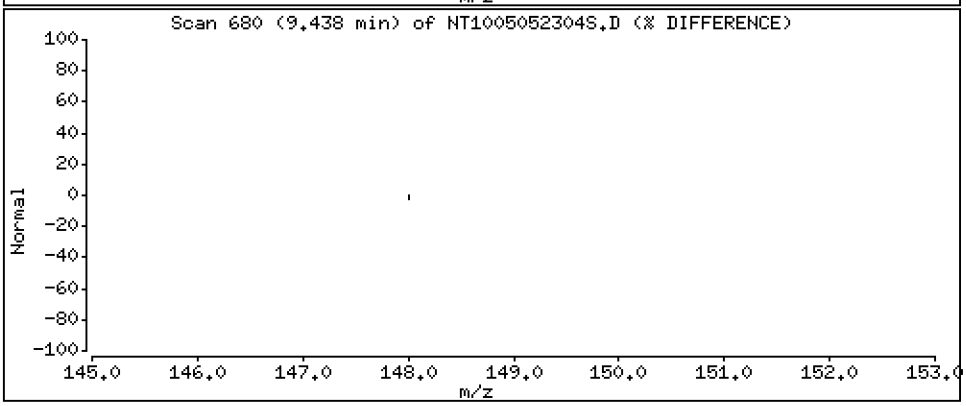












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

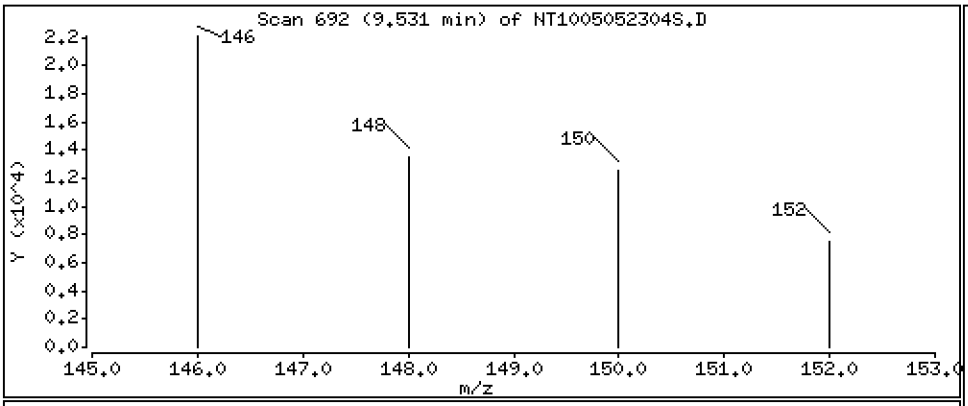
Operator: DSD

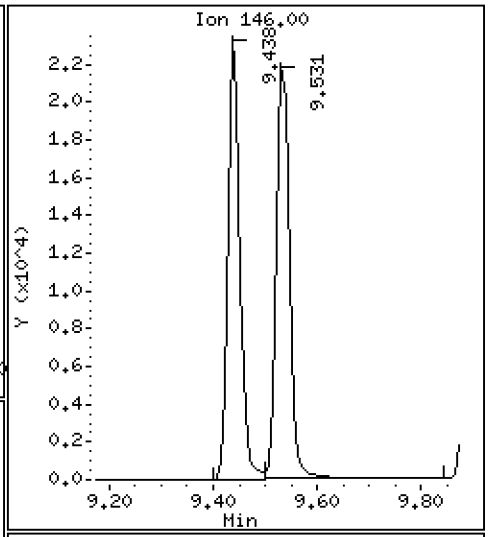
Column phase: ZB-5msi

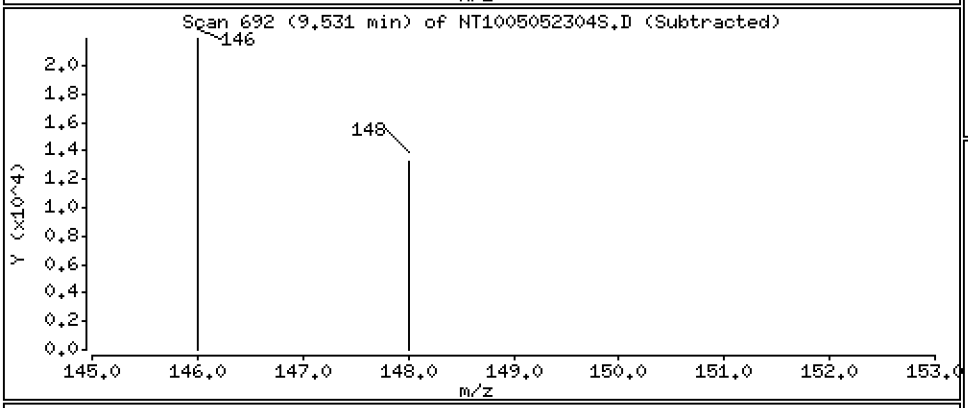
Column diameter: 0.25

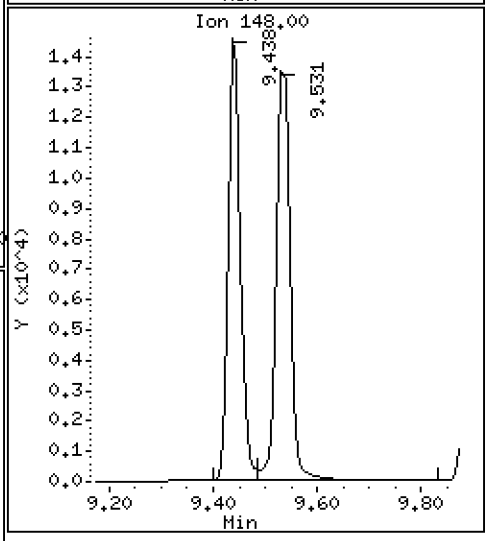
9 1,4-Dichlorobenzene

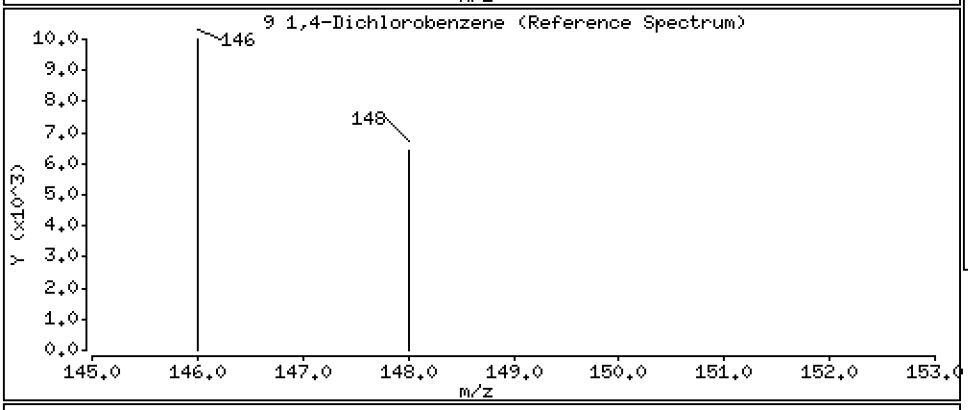
Concentration: 0.4526 ug/L

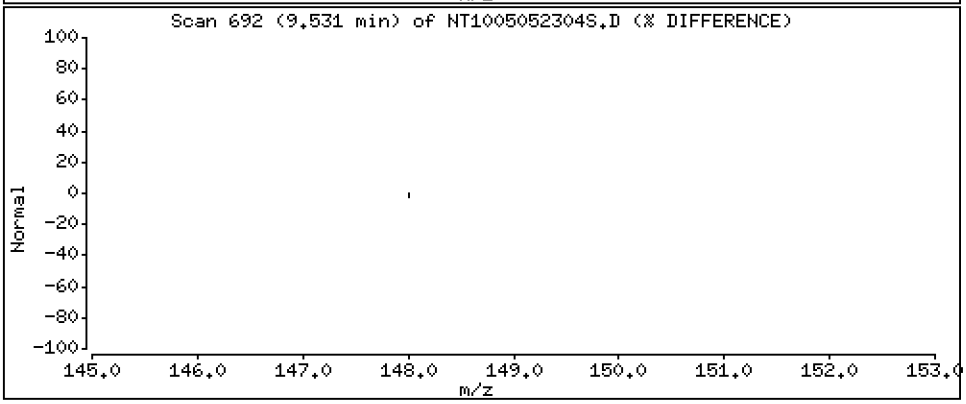












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

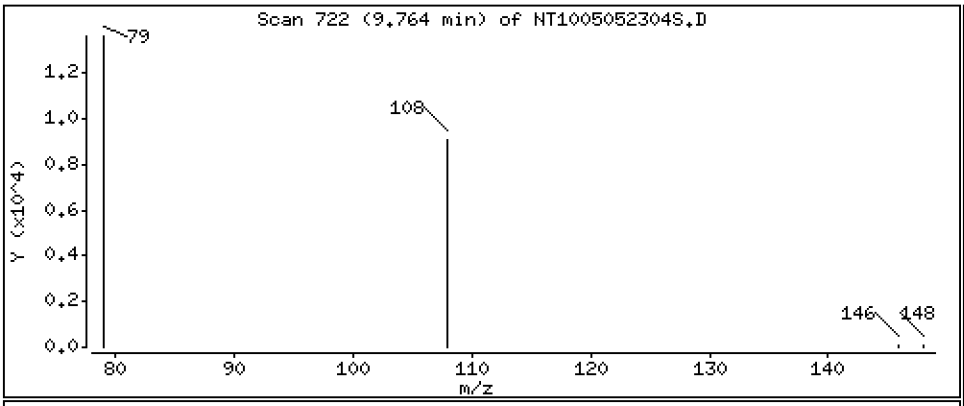
Operator: DSD

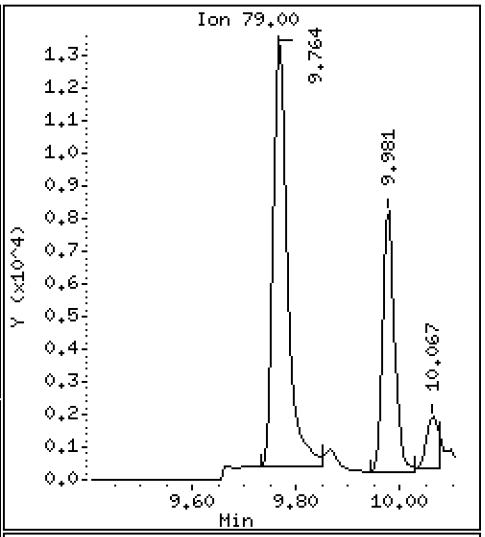
Column phase: ZB-5msi

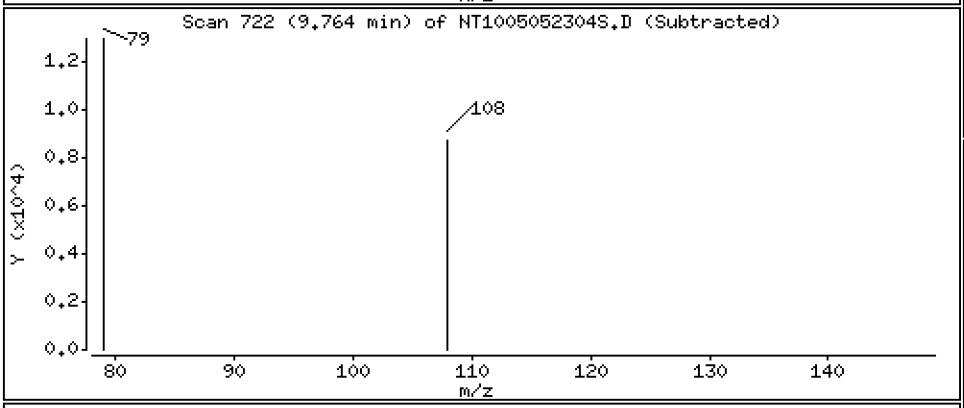
Column diameter: 0.25

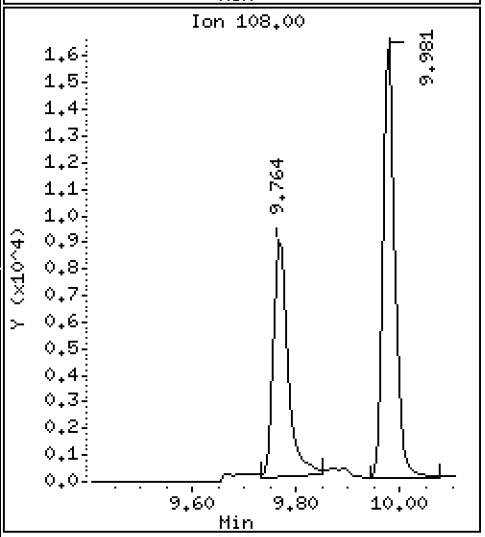
11 Benzyl alcohol

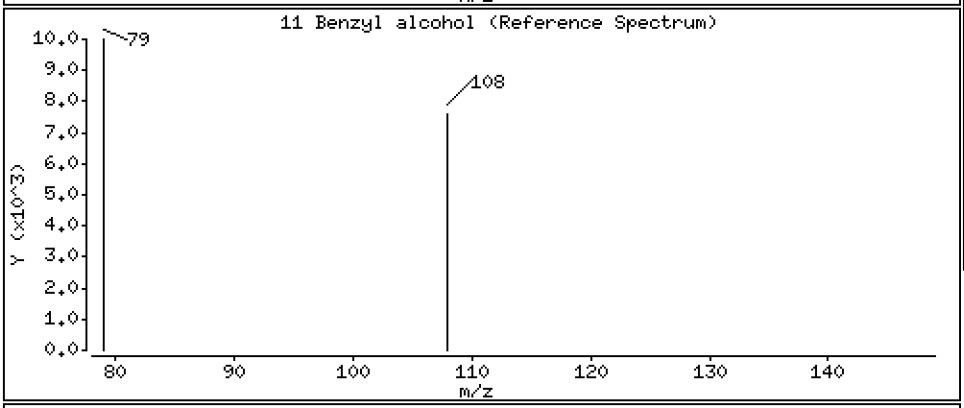
Concentration: 0.4515 ug/L

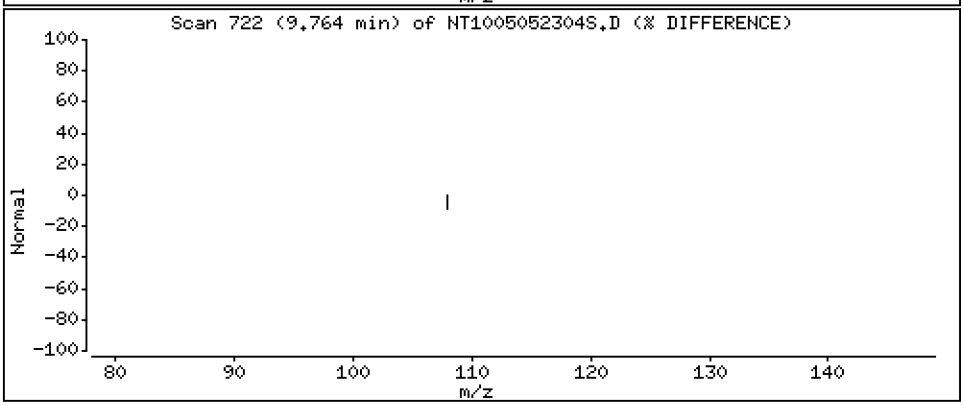












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

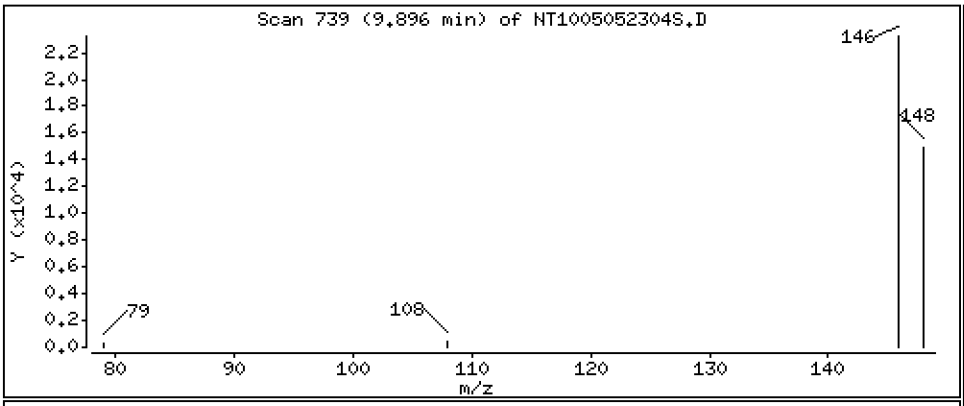
Operator: DSD

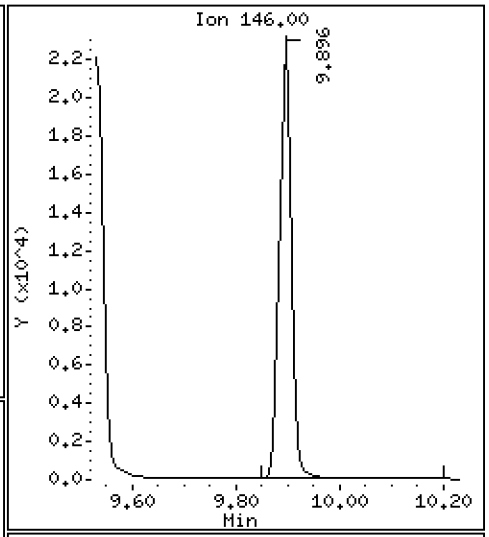
Column phase: ZB-5msi

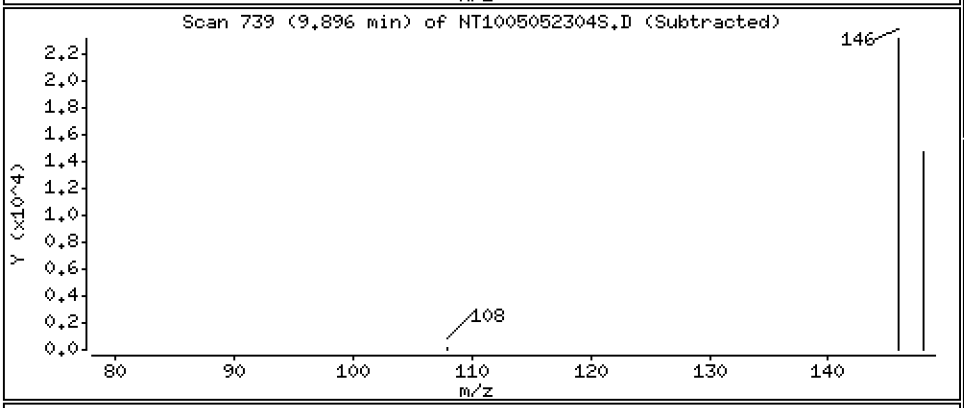
Column diameter: 0.25

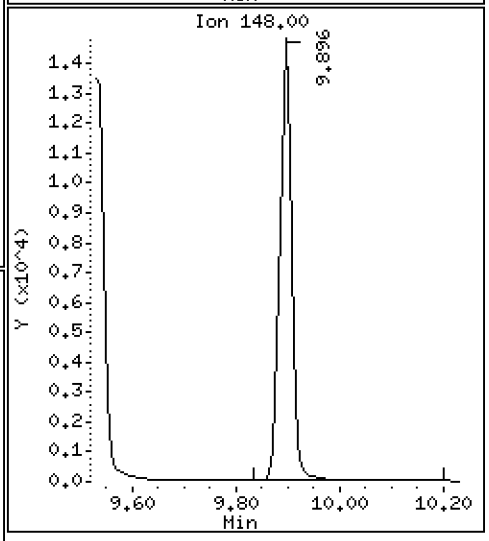
12 1,2-Dichlorobenzene

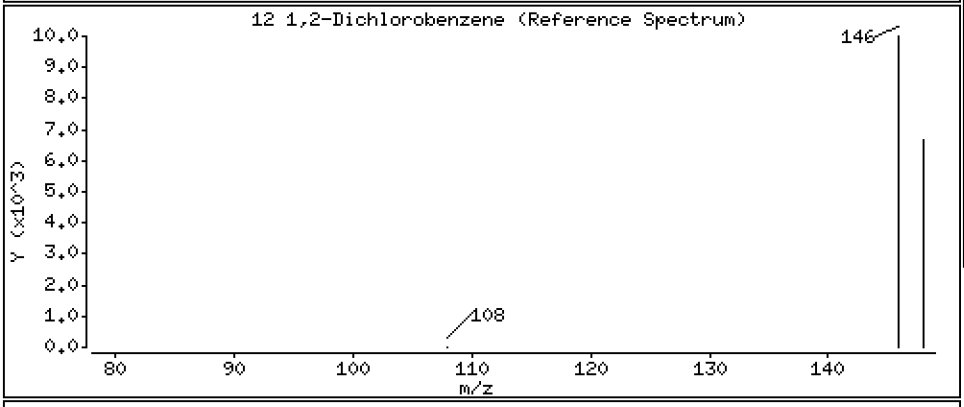
Concentration: 0.4581 ug/L

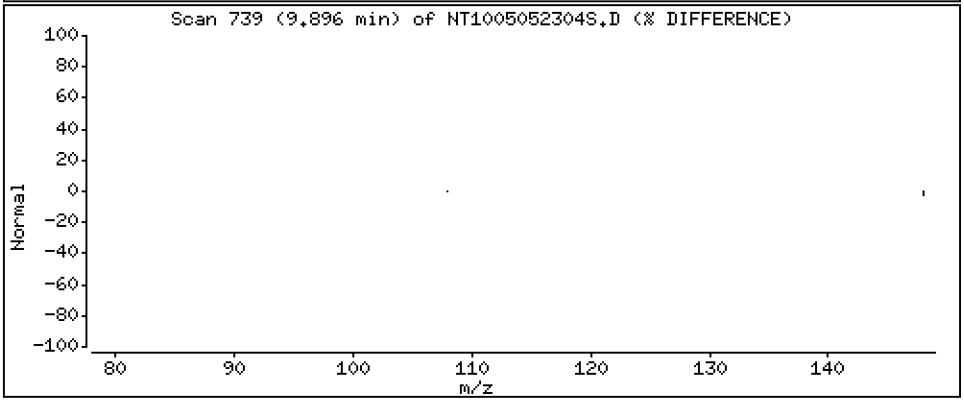












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

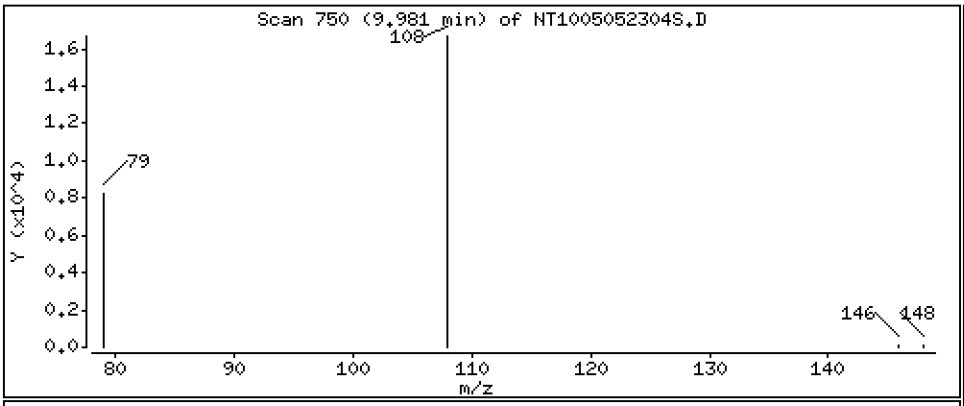
Operator: DSD

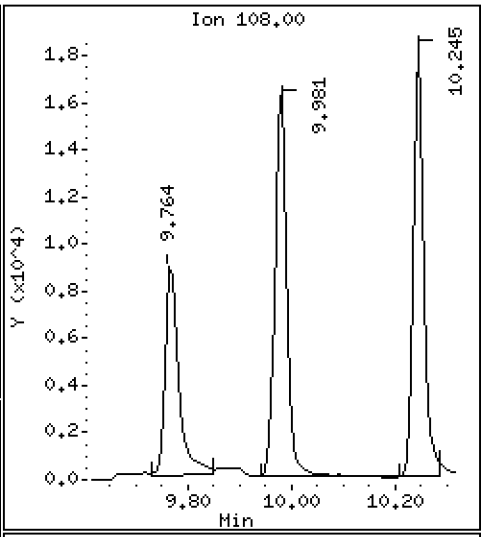
Column phase: ZB-5msi

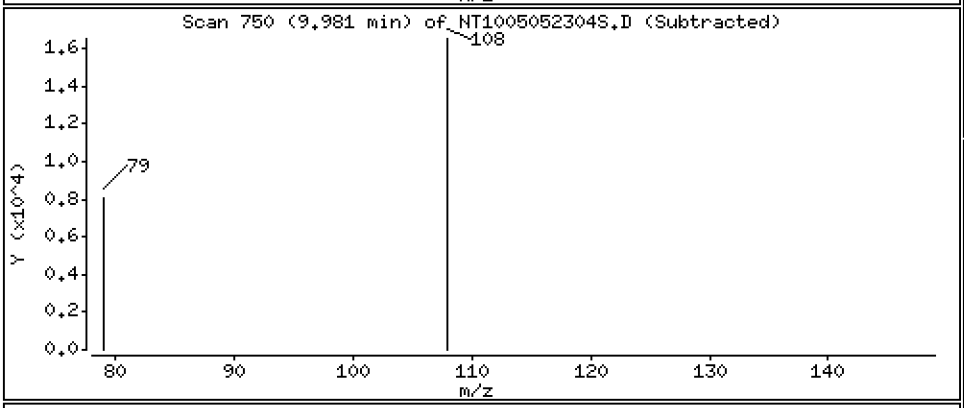
Column diameter: 0.25

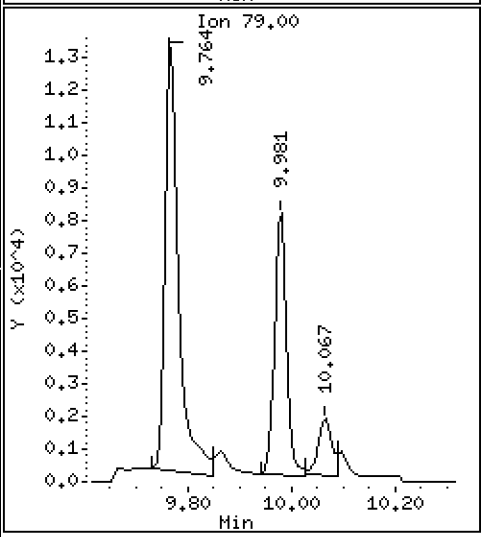
13 2-Methylphenol

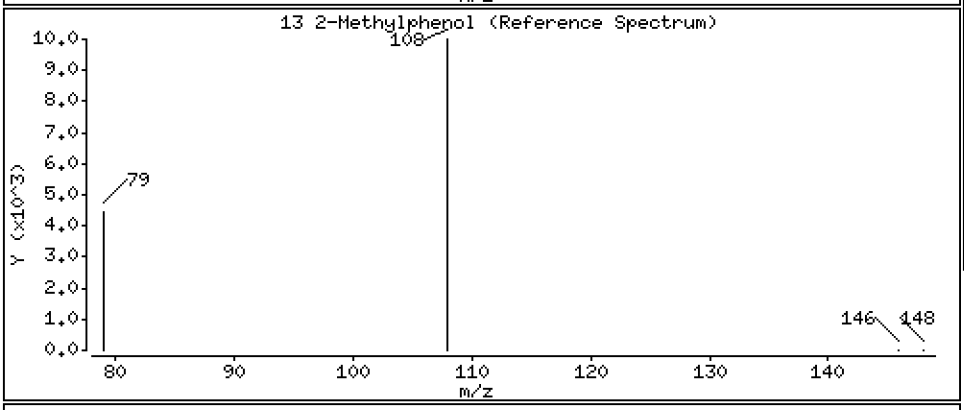
Concentration: 0.4570 ug/L

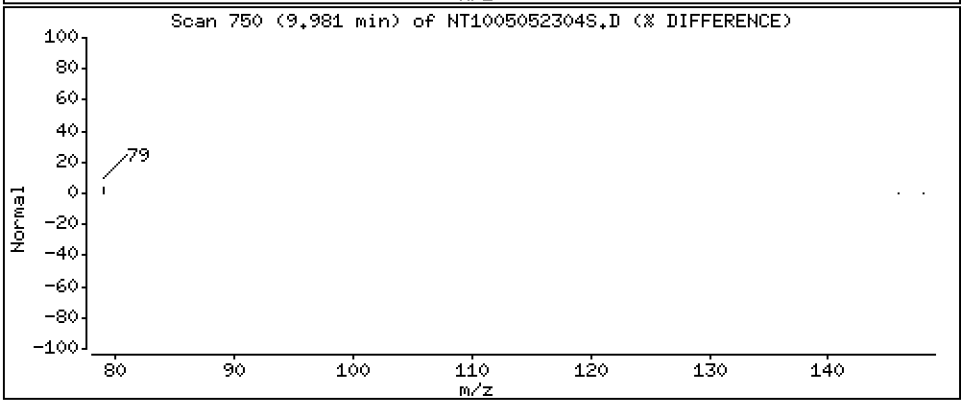












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

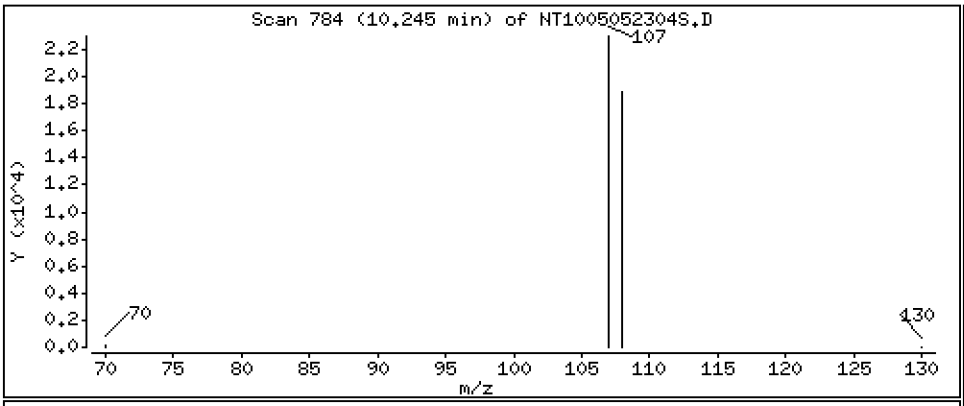
Operator: DSD

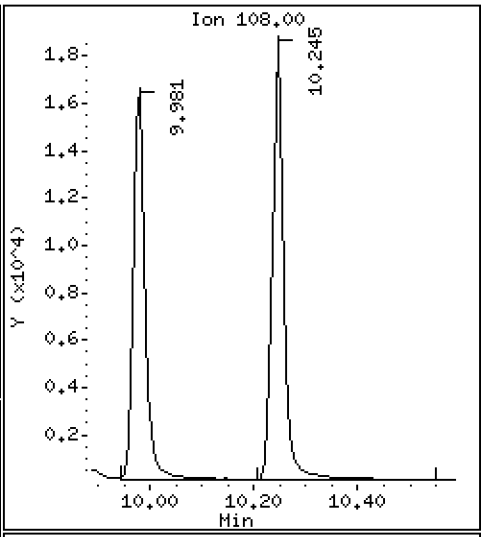
Column phase: ZB-5msi

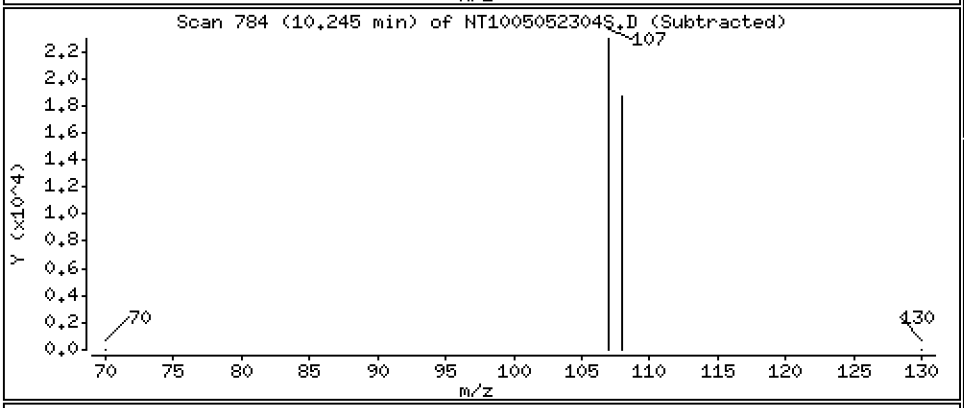
Column diameter: 0.25

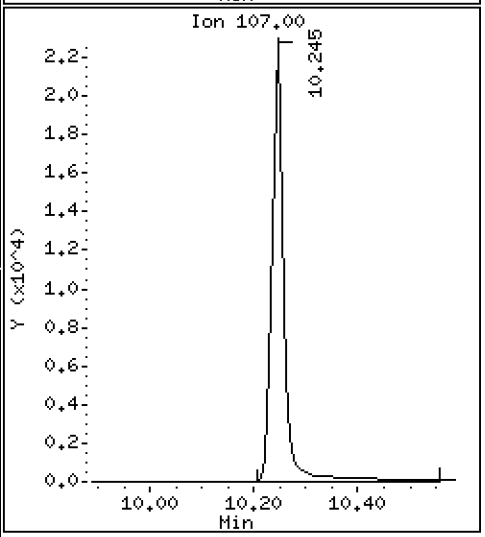
15 4-Methylphenol

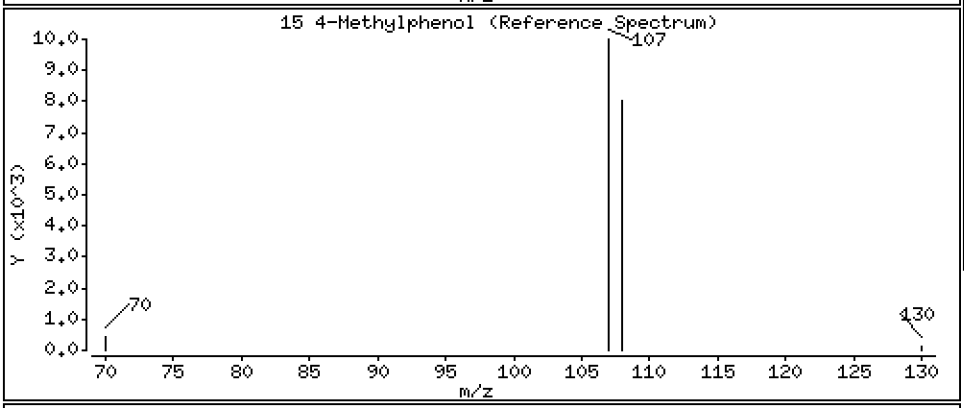
Concentration: 0.4519 ug/L

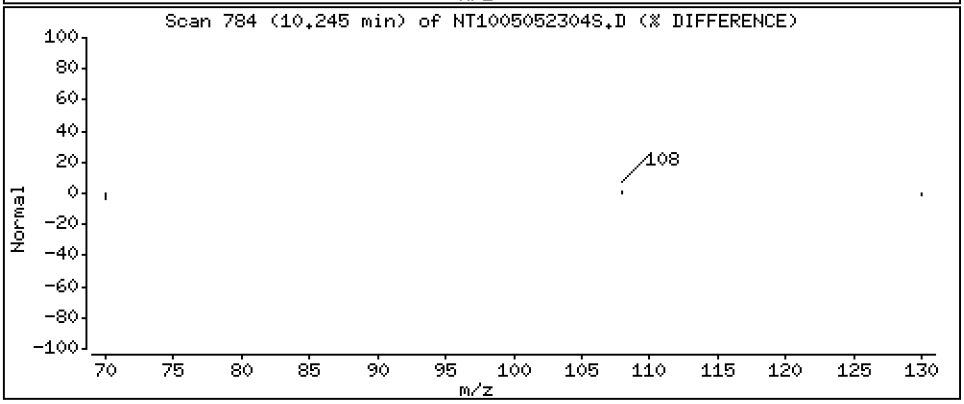












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

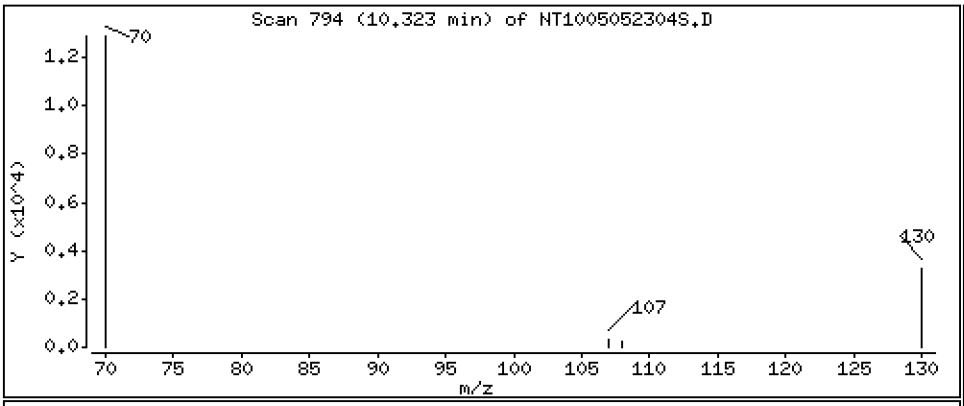
Operator: DSD

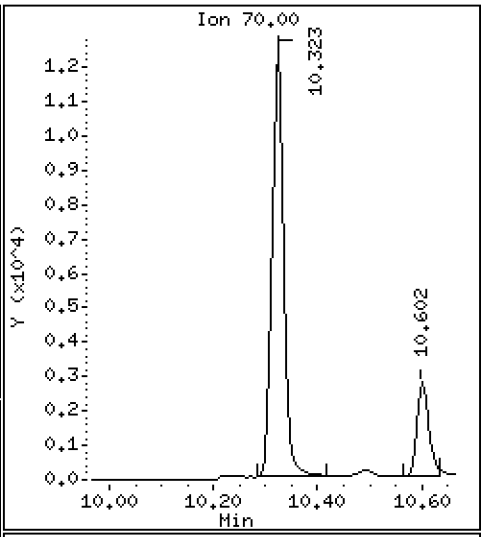
Column phase: ZB-5msi

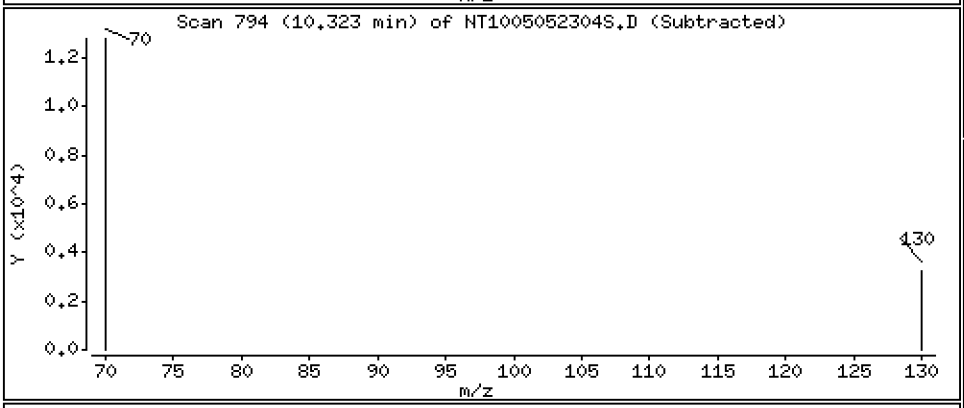
Column diameter: 0.25

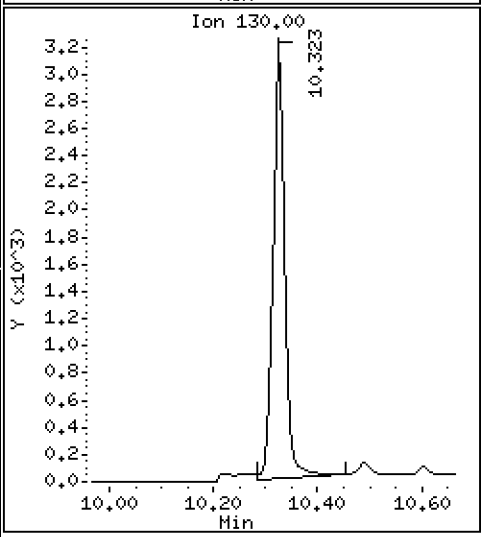
16 N-Nitroso-di-n-propylamine

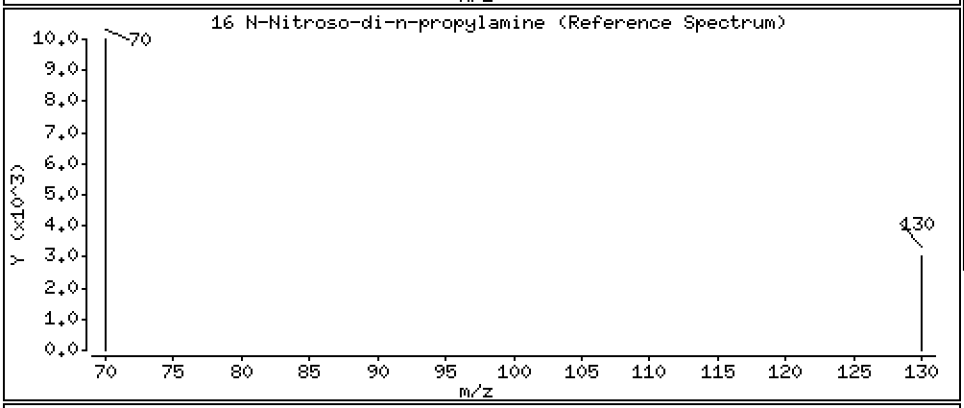
Concentration: 0.4315 ug/L

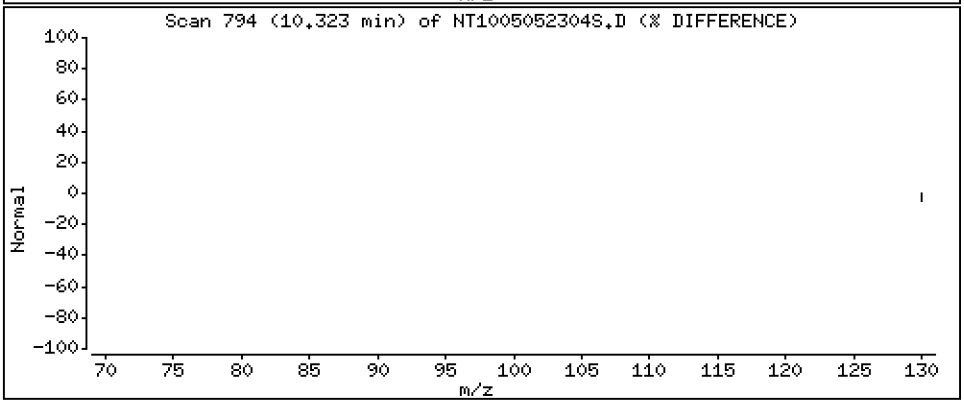












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

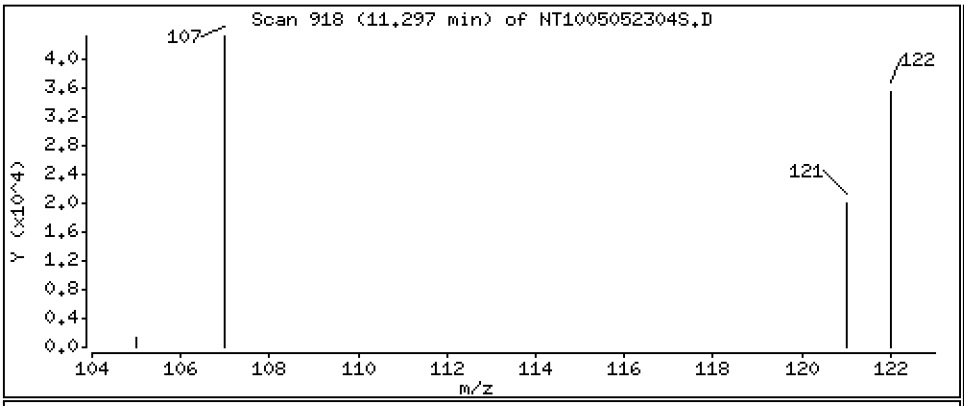
Operator: DSD

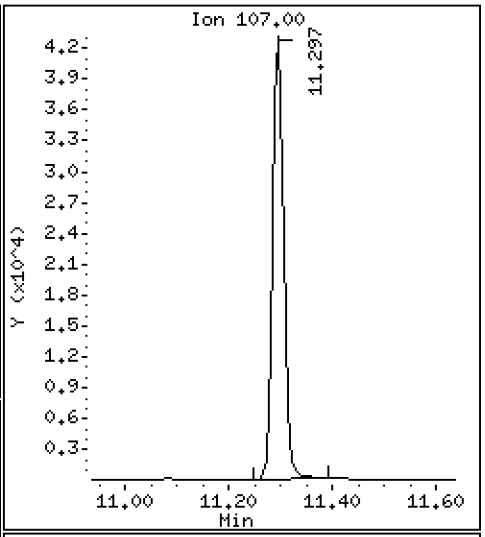
Column phase: ZB-5msi

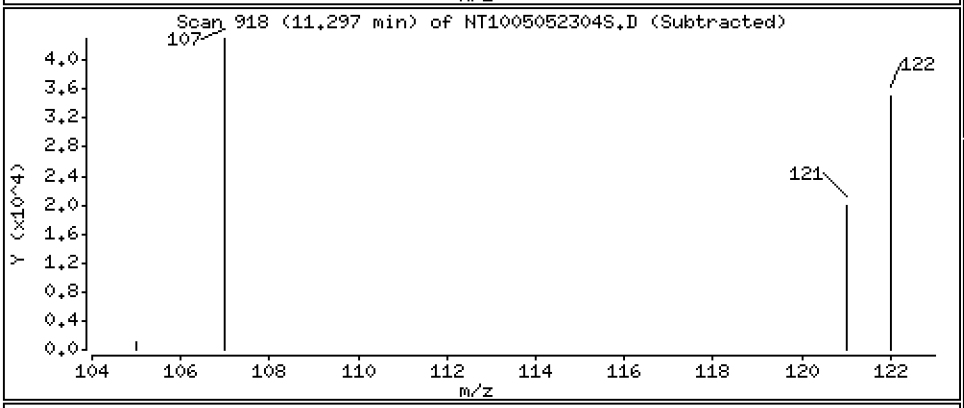
Column diameter: 0.25

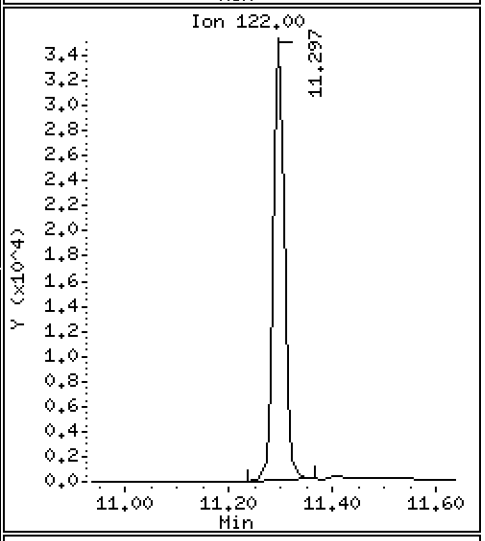
22 2,4-Dimethylphenol

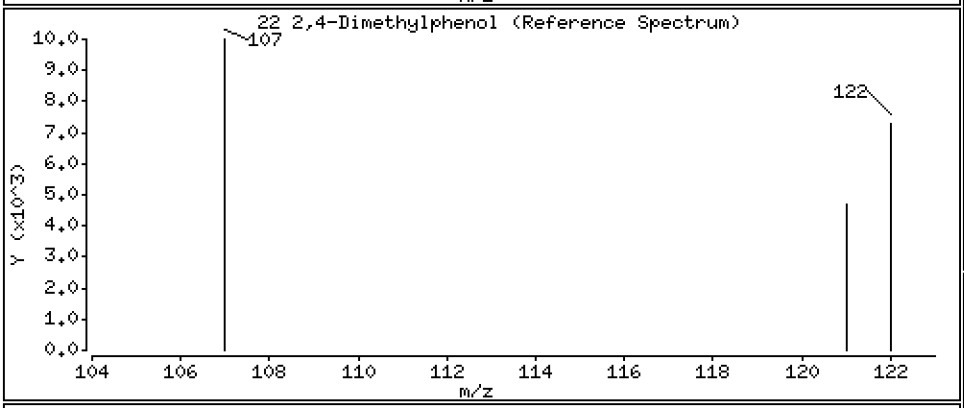
Concentration: 0.8974 ug/L

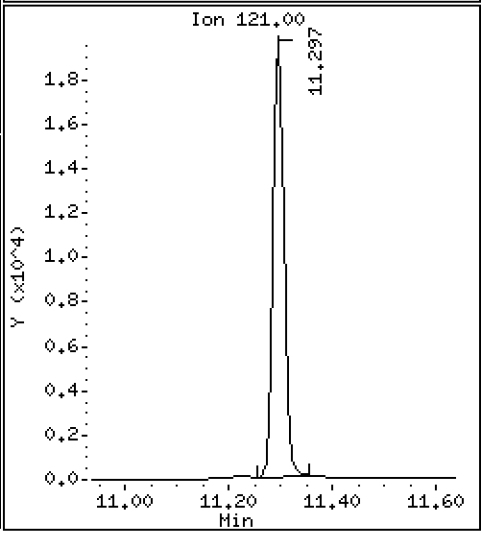


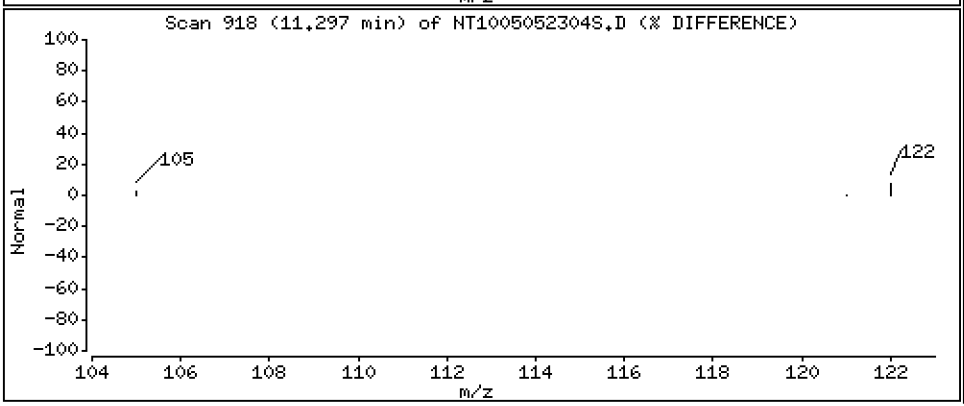












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

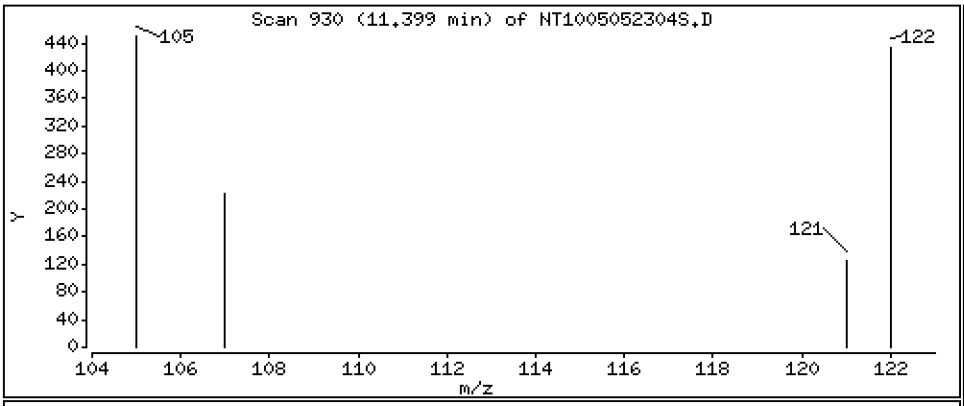
Operator: DSD

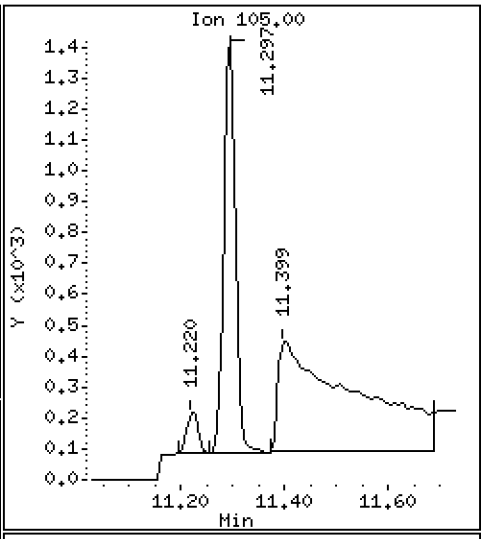
Column phase: ZB-5msi

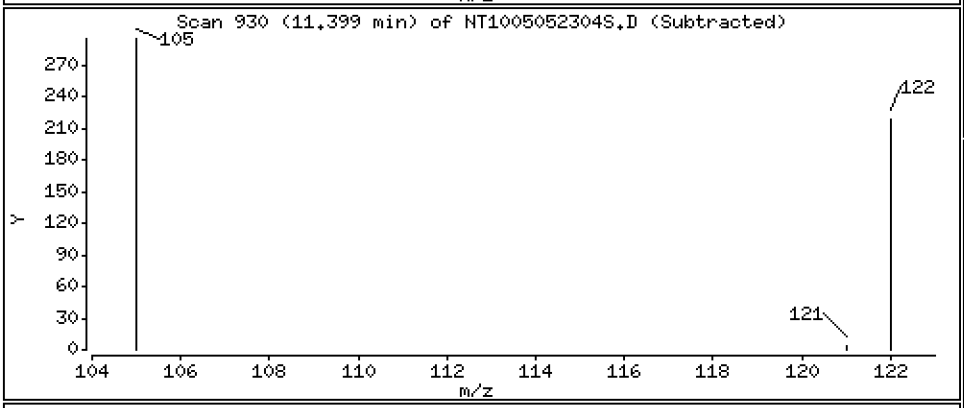
Column diameter: 0.25

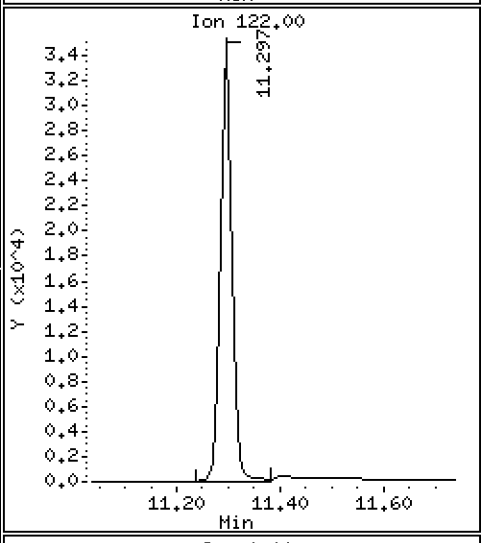
24 Benzoic acid

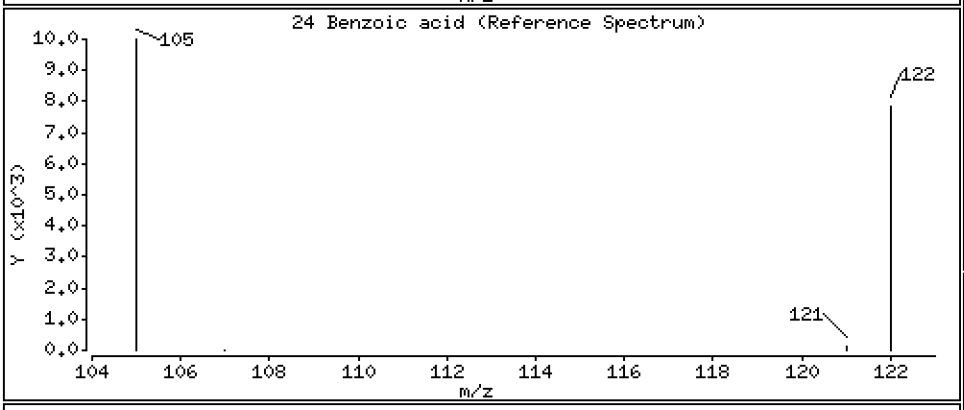
Concentration: 0.08010 ug/L

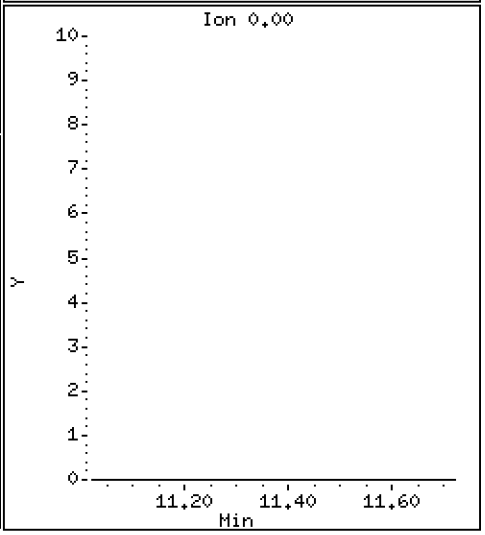


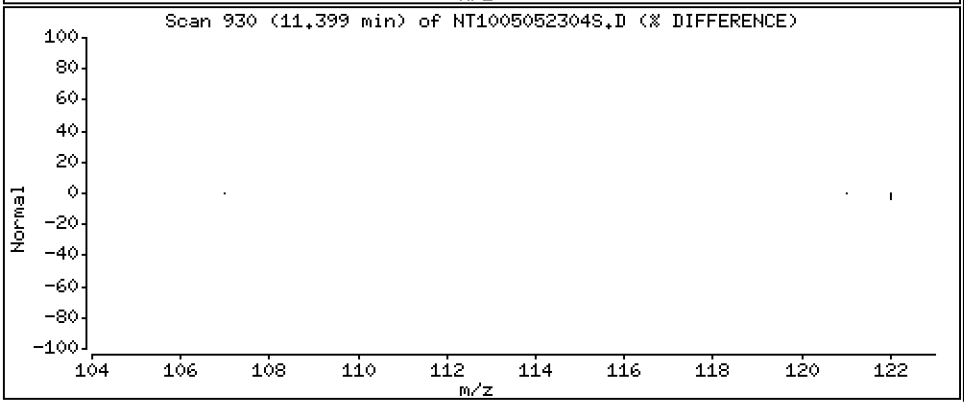












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

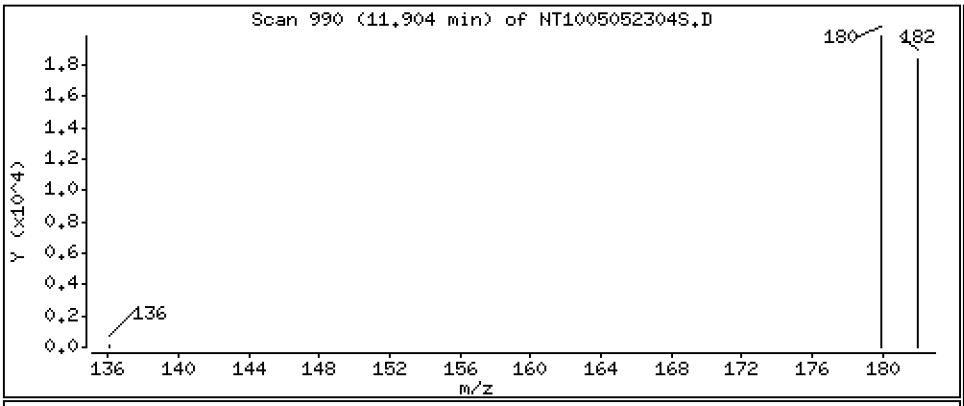
Operator: DSD

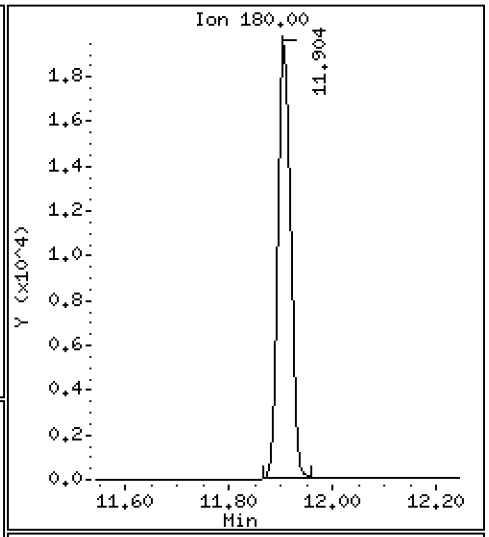
Column phase: ZB-5msi

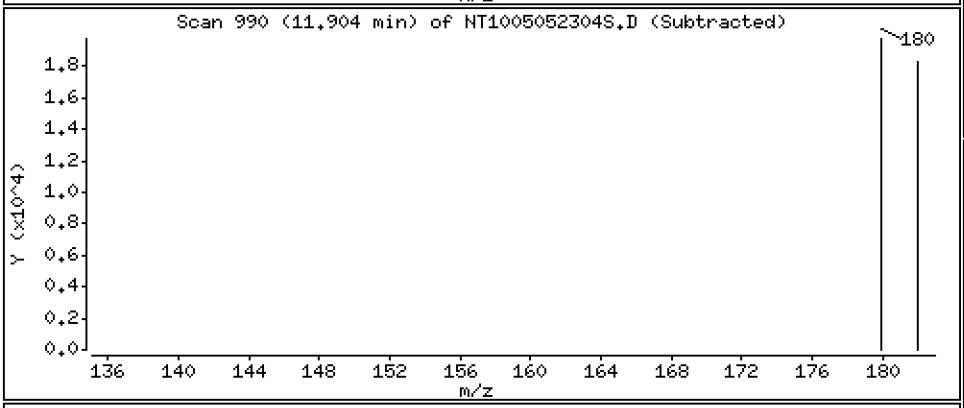
Column diameter: 0.25

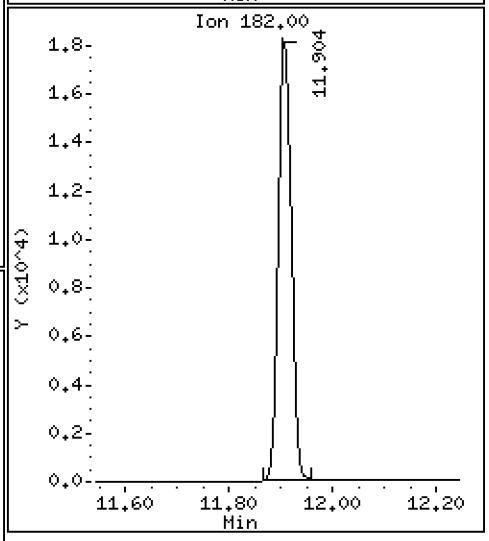
26 1,2,4-Trichlorobenzene

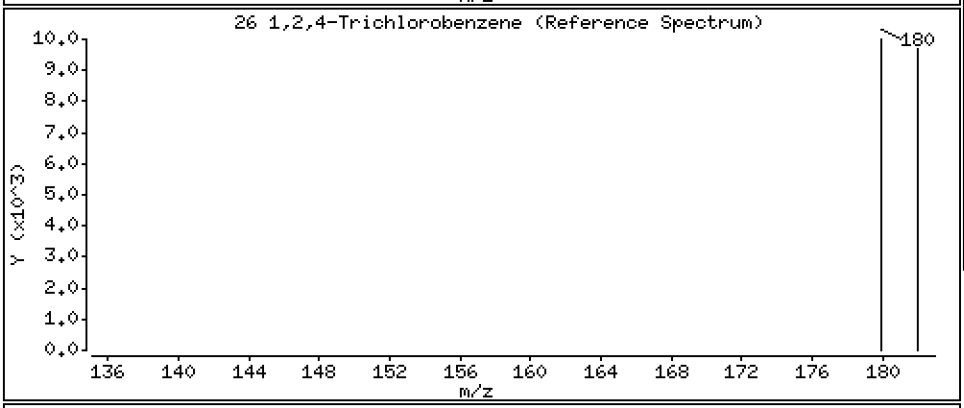
Concentration: 0.4303 ug/L

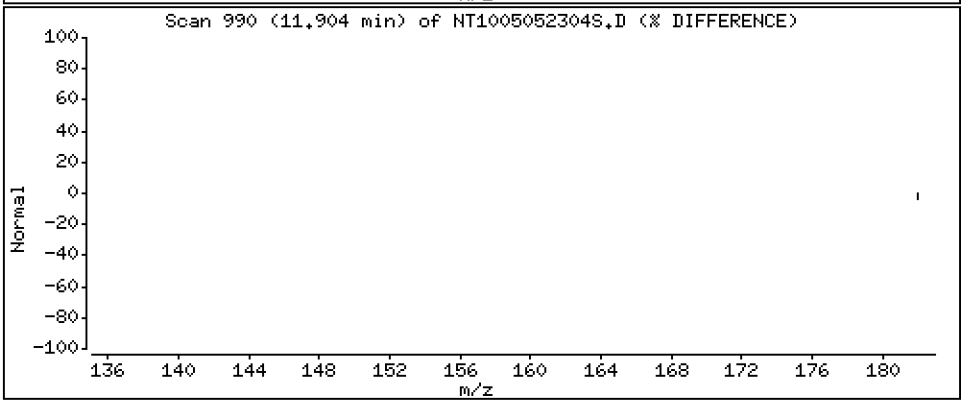












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

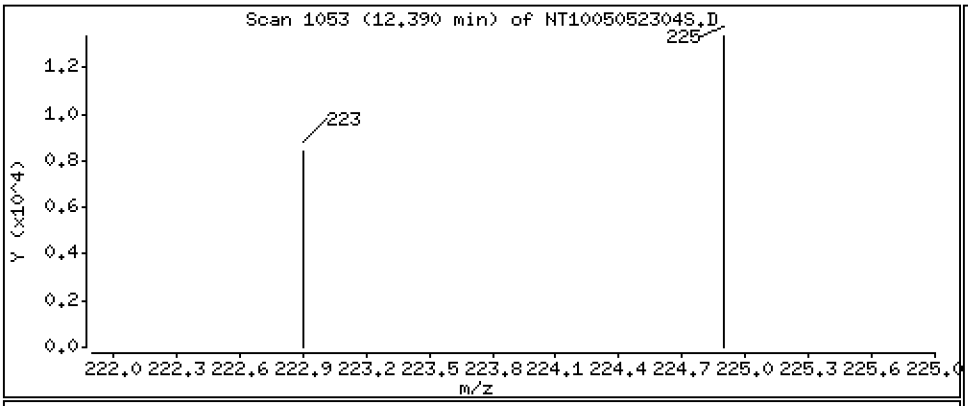
Operator: DSD

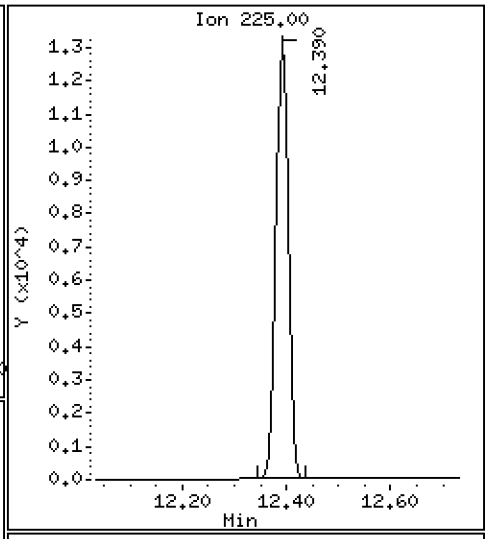
Column phase: ZB-5msi

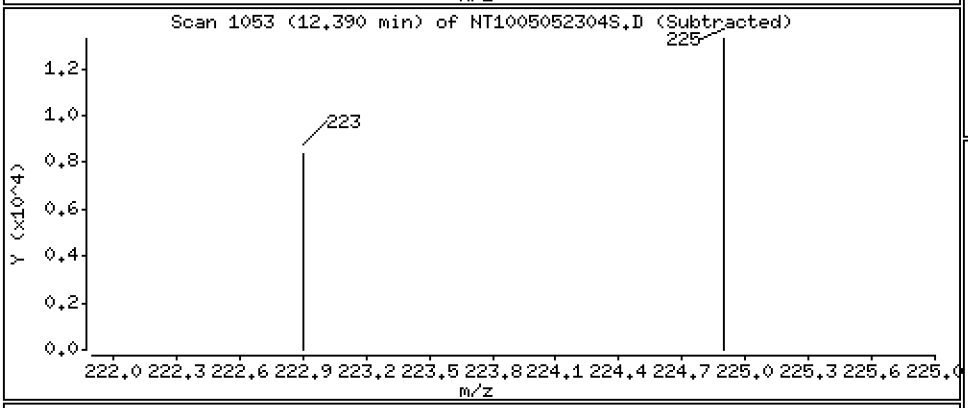
Column diameter: 0.25

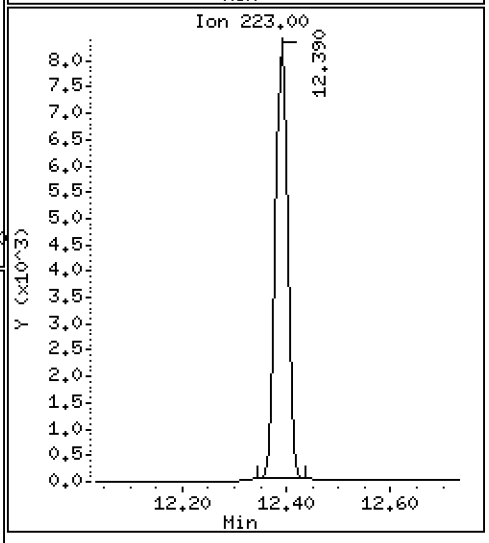
30 Hexachlorobutadiene

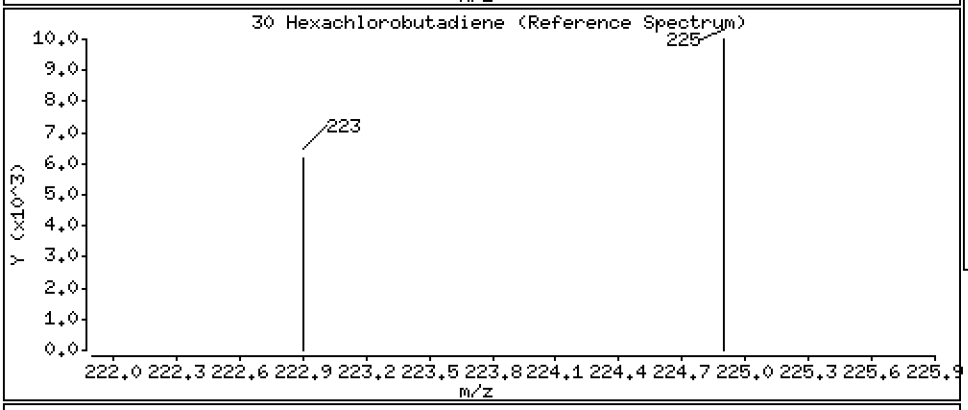
Concentration: 0.4346 ug/L

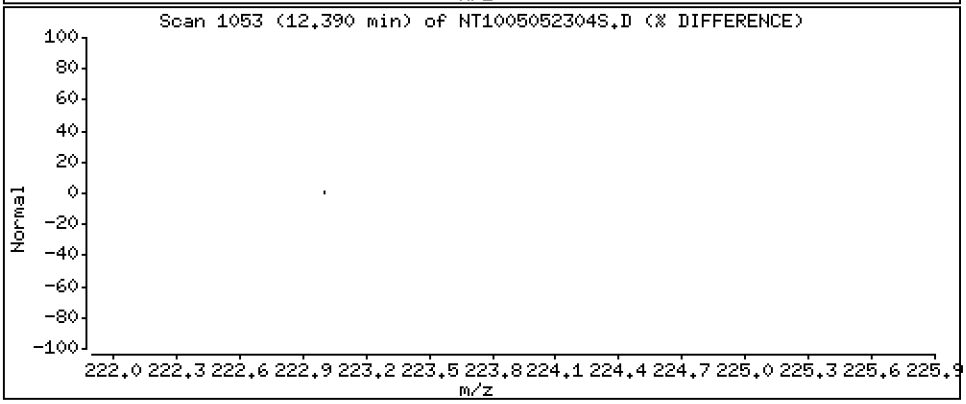












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

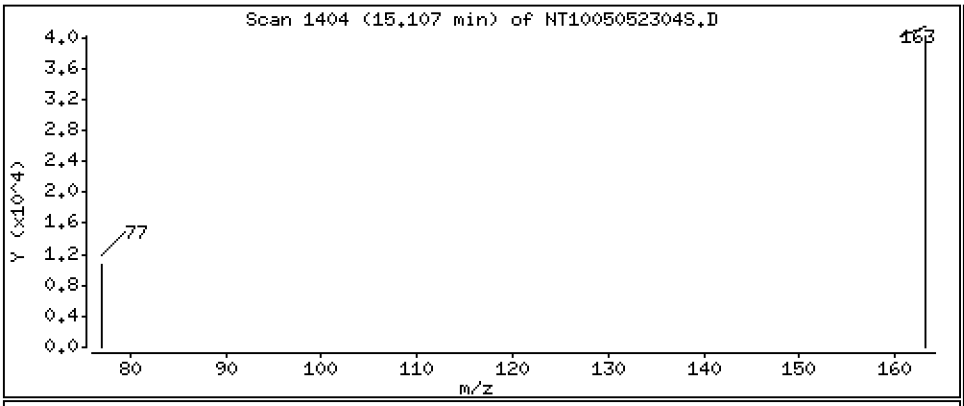
Operator: DSD

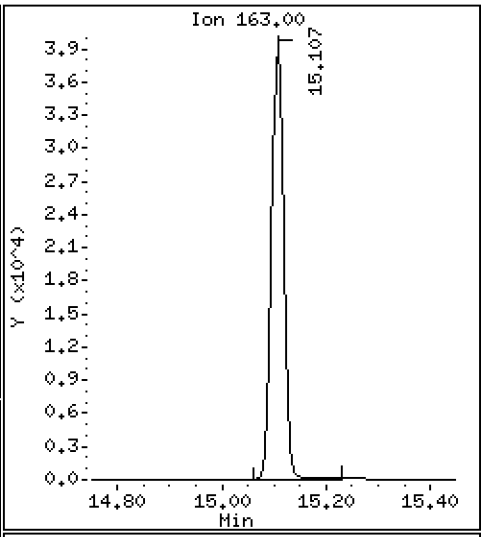
Column phase: ZB-5msi

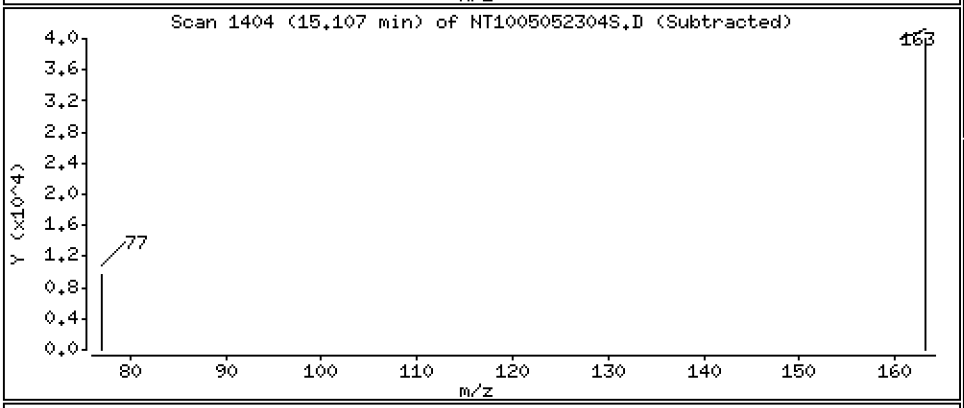
Column diameter: 0.25

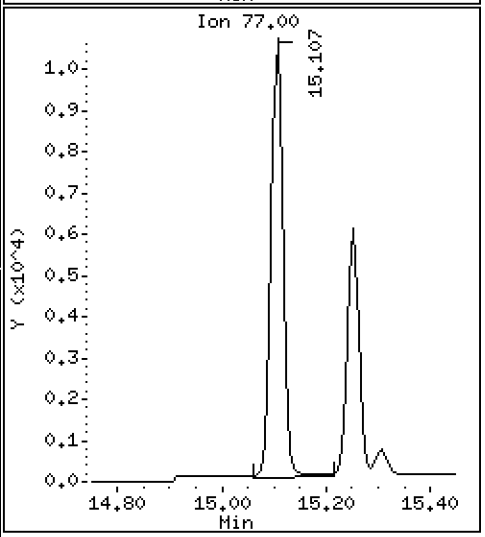
39 Dimethylphthalate

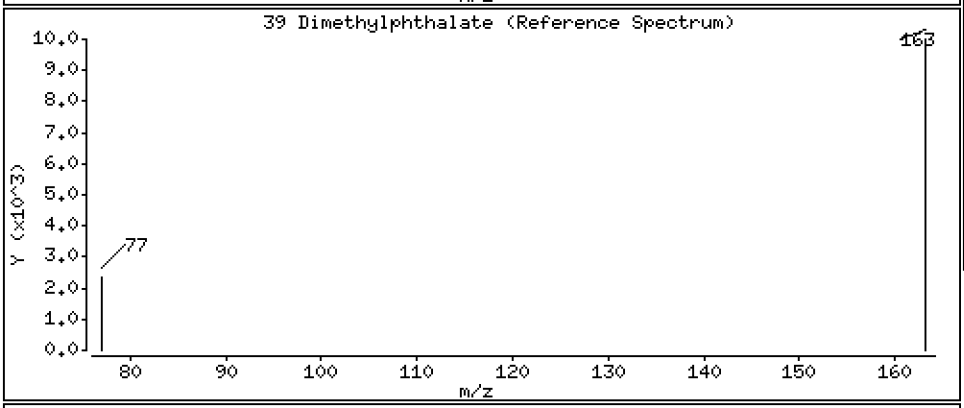
Concentration: 0.4272 ug/L

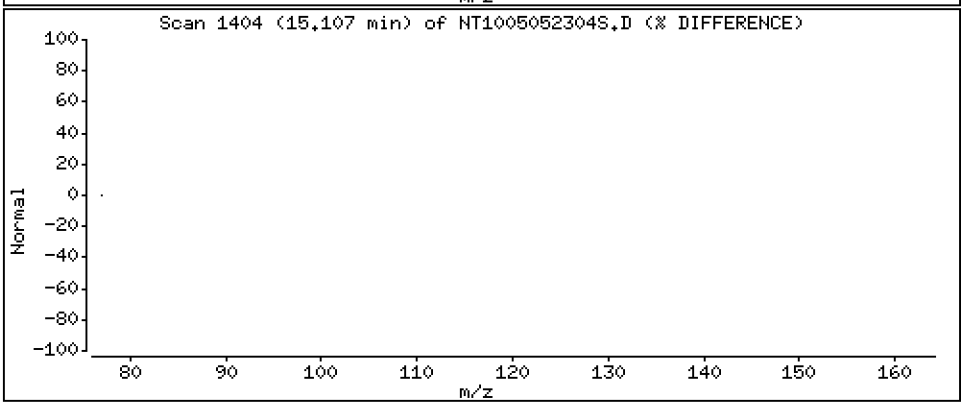












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

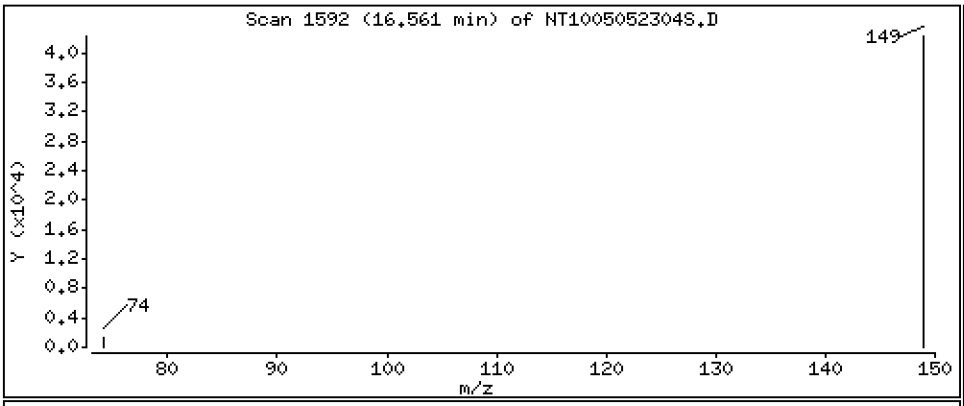
Operator: DSD

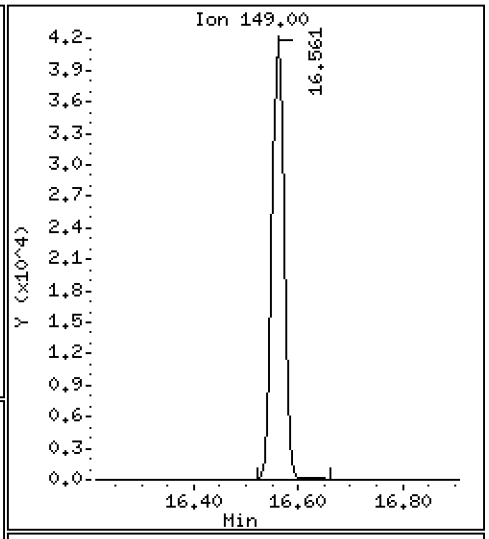
Column phase: ZB-5msi

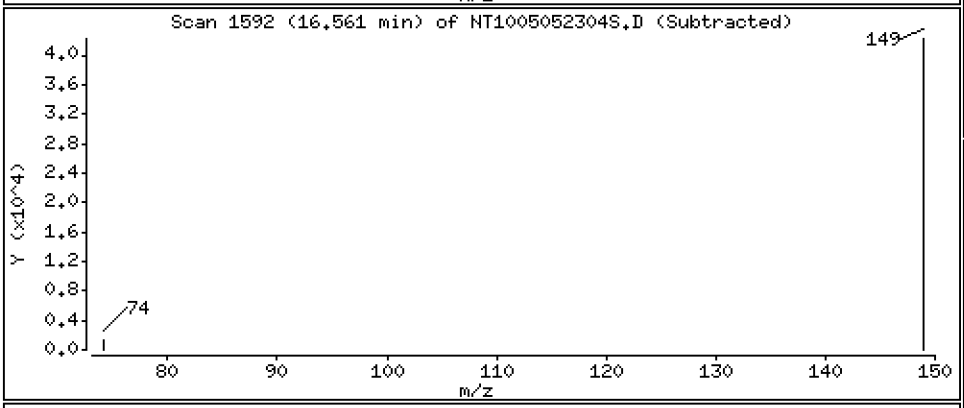
Column diameter: 0.25

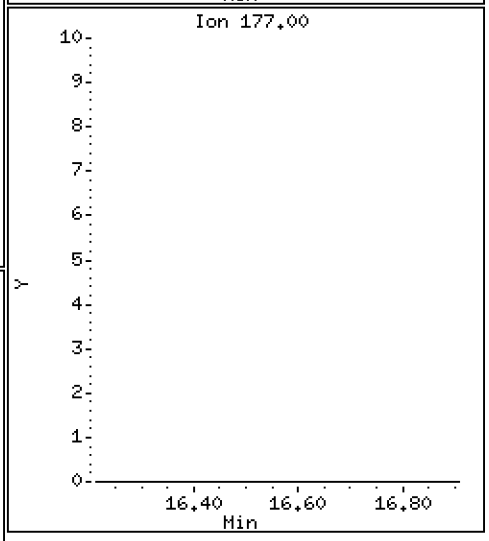
50 Diethylphthalate

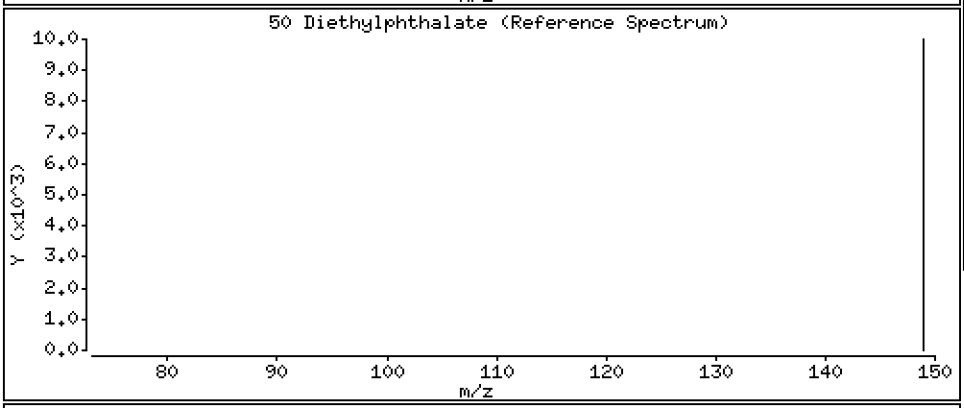
Concentration: 0.4244 ug/L

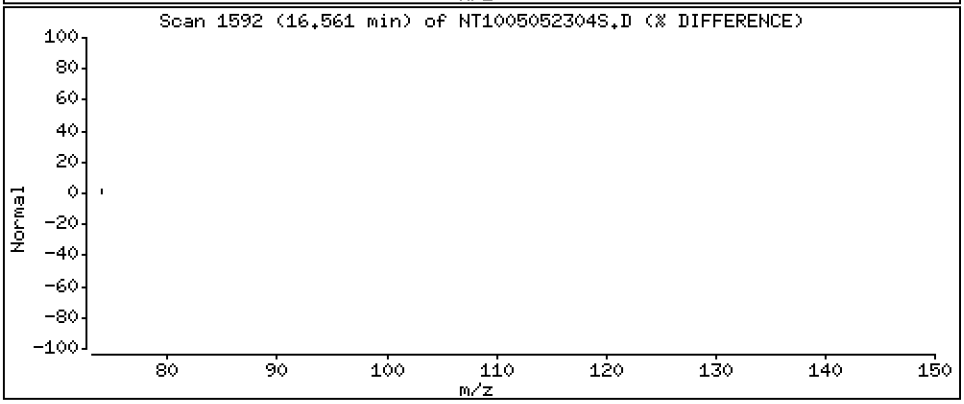












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

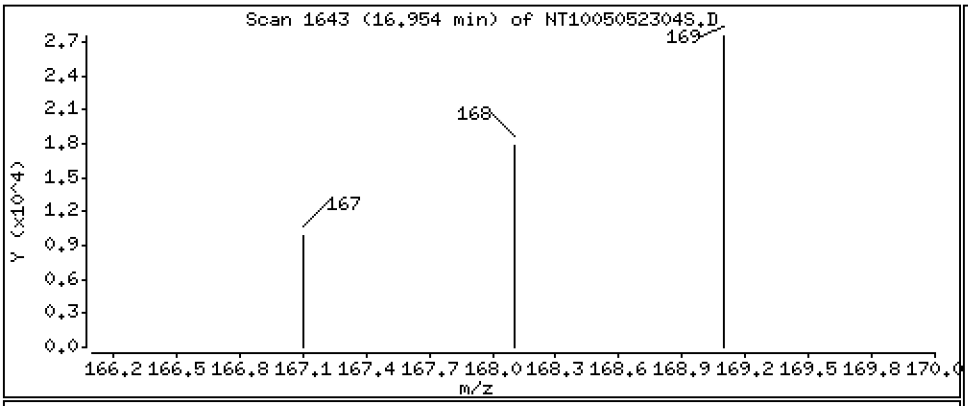
Operator: DSD

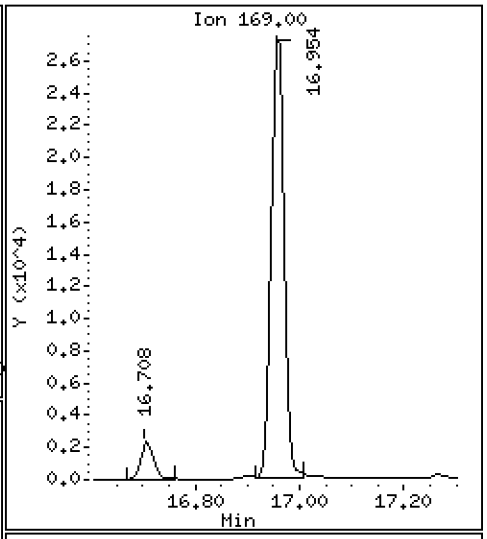
Column phase: ZB-5msi

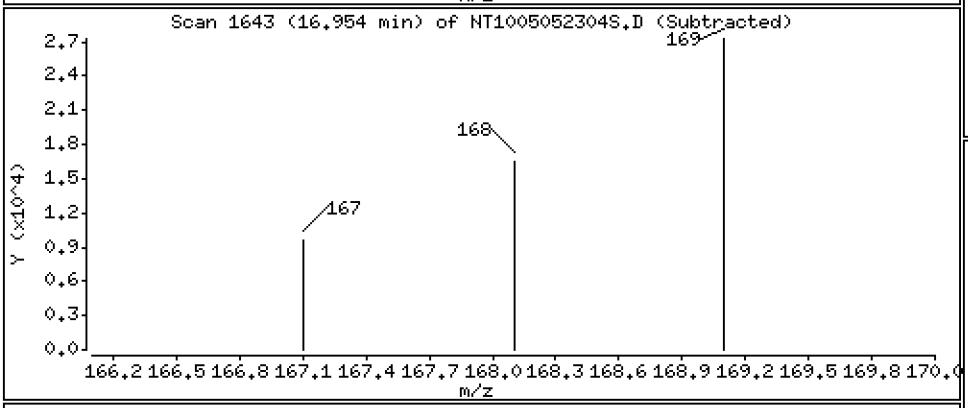
Column diameter: 0.25

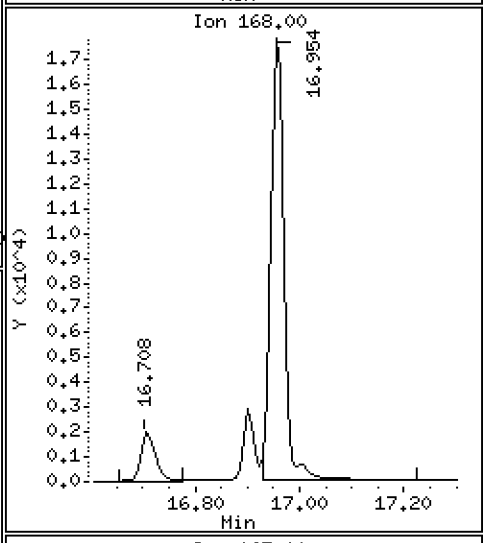
54 N-Nitrosodiphenylamine

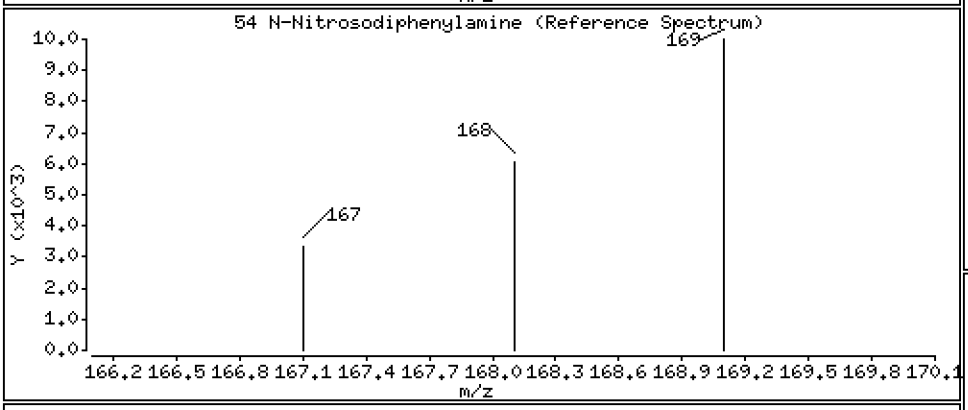
Concentration: 0.4582 ug/L

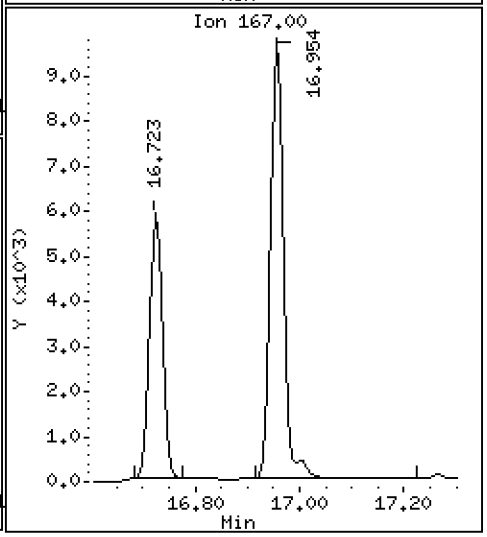


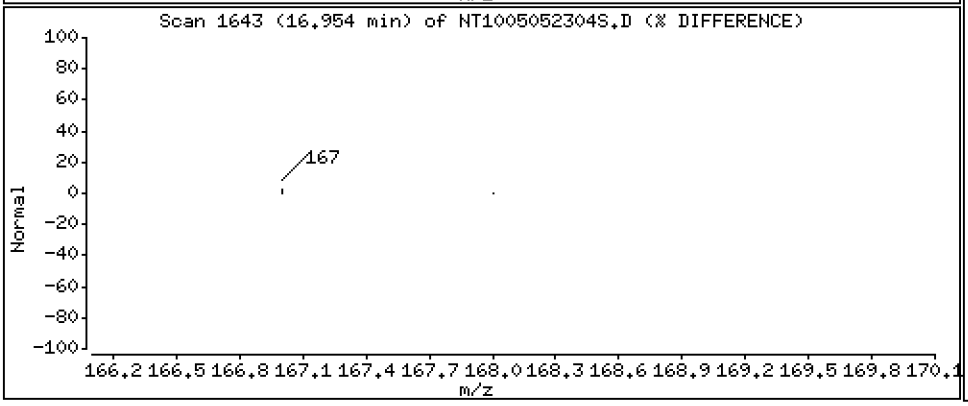












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Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

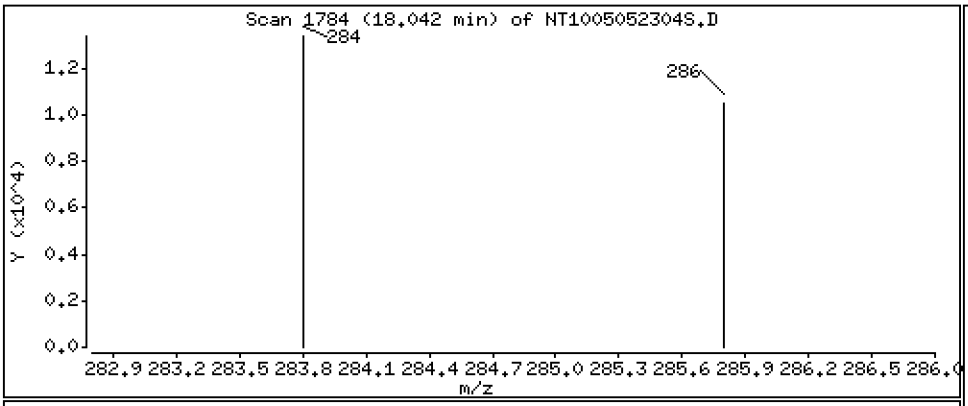
Operator: DSD

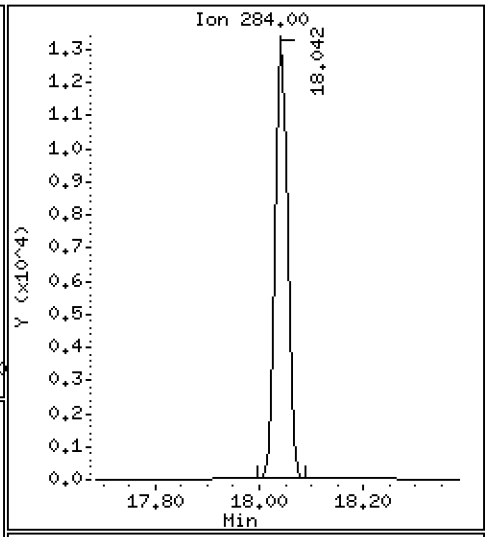
Column phase: ZB-5msi

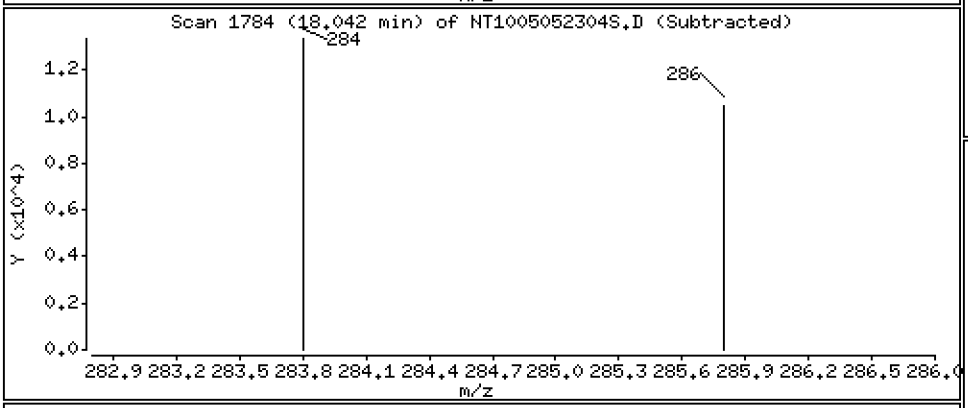
Column diameter: 0.25

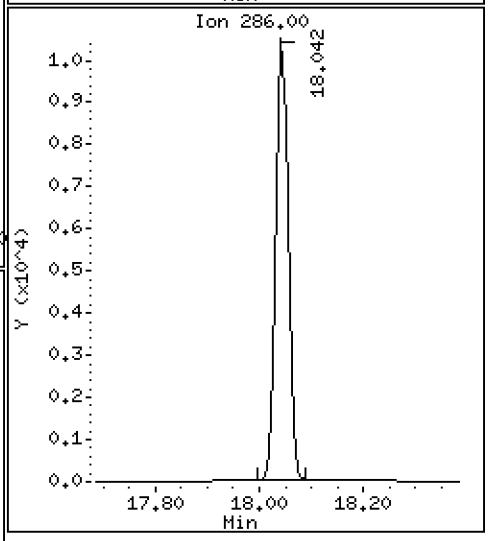
57 Hexachlorobenzene

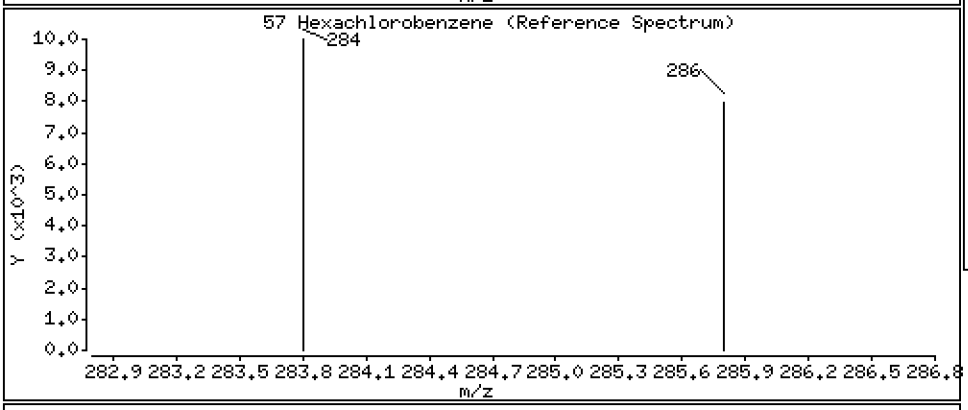
Concentration: 0.4353 ug/L

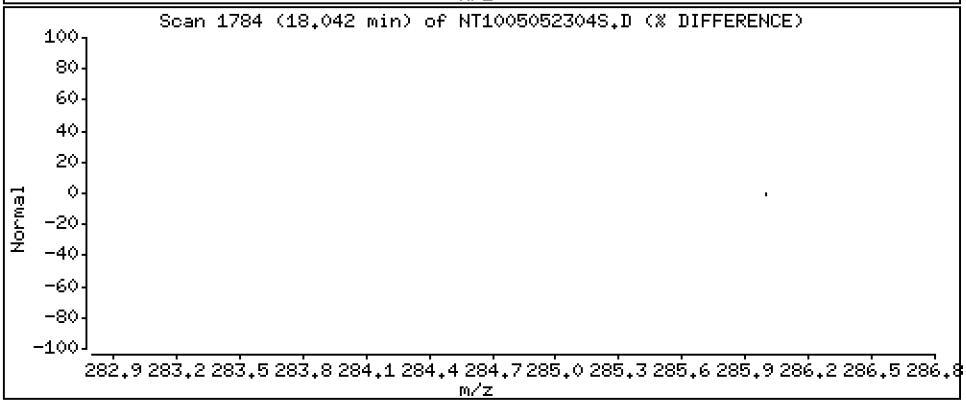












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

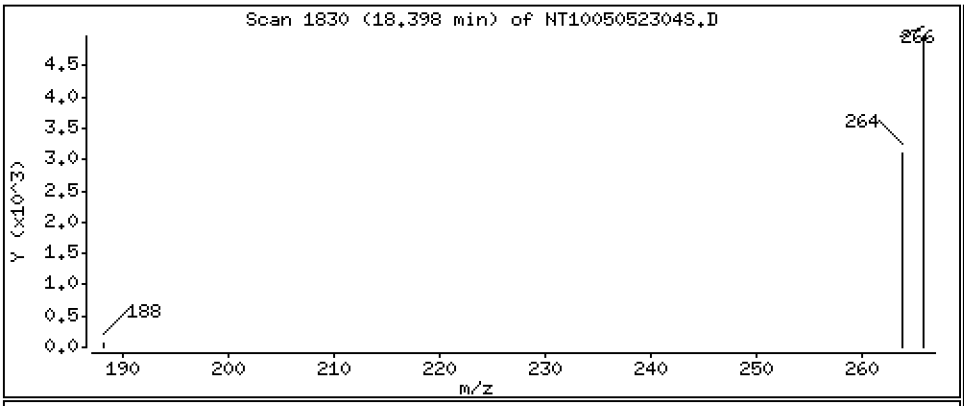
Operator: DSD

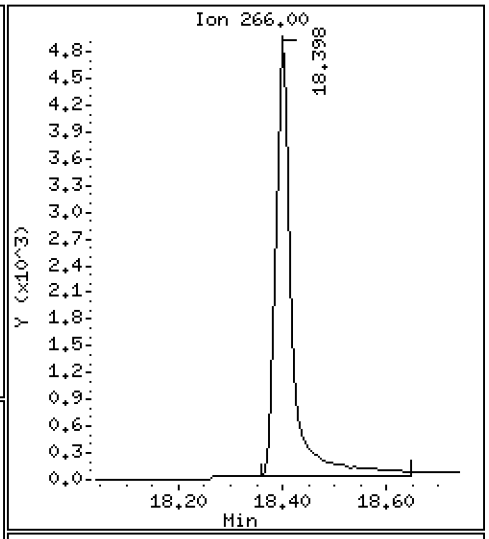
Column phase: ZB-5msi

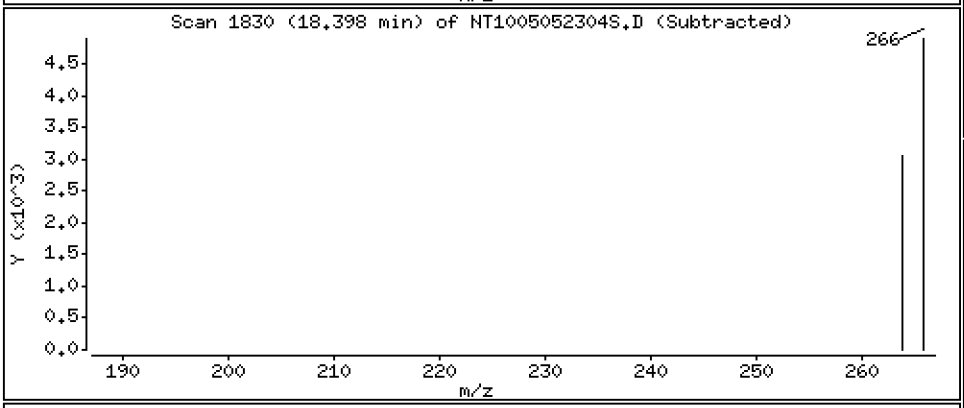
Column diameter: 0.25

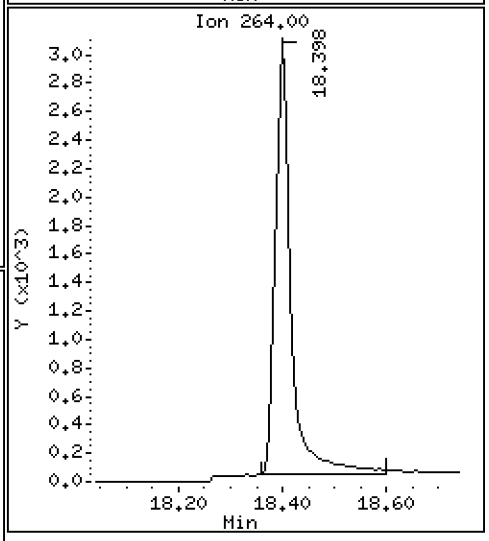
58 Pentachlorophenol

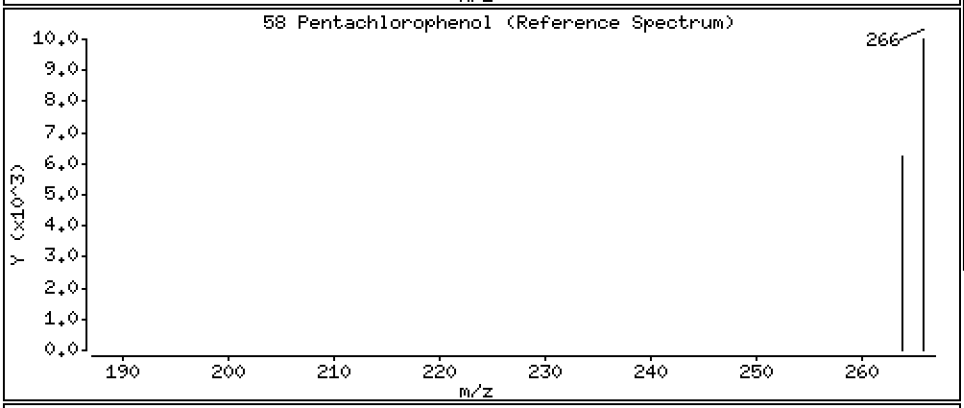
Concentration: 0.3618 ug/L

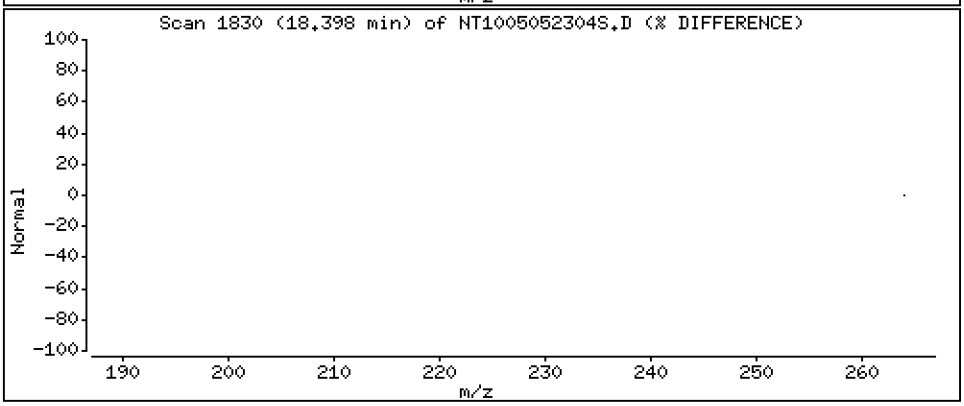












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

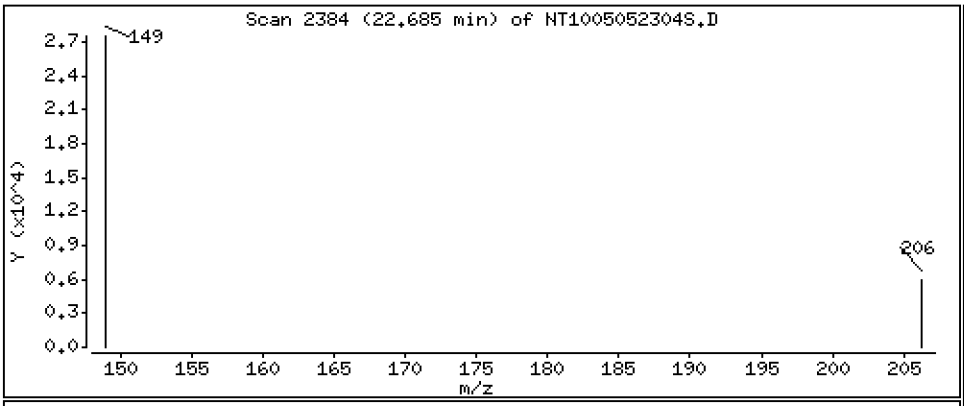
Operator: DSD

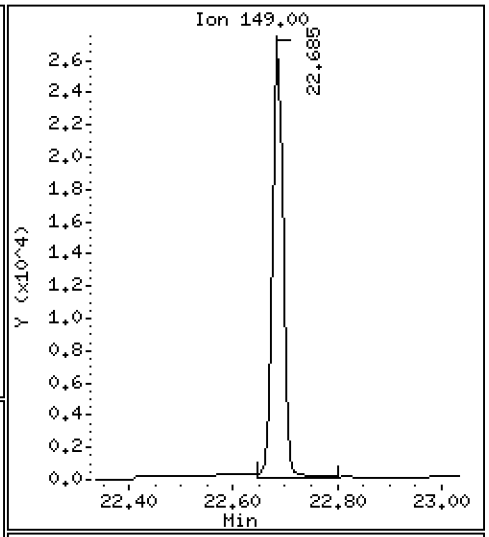
Column phase: ZB-5msi

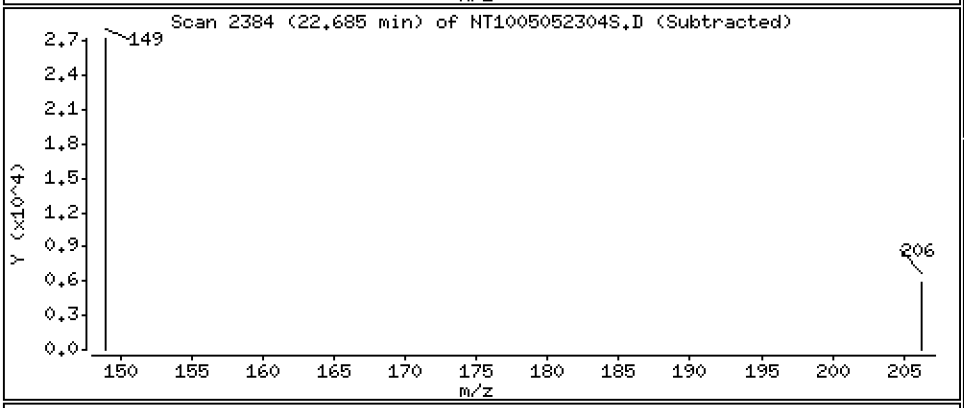
Column diameter: 0.25

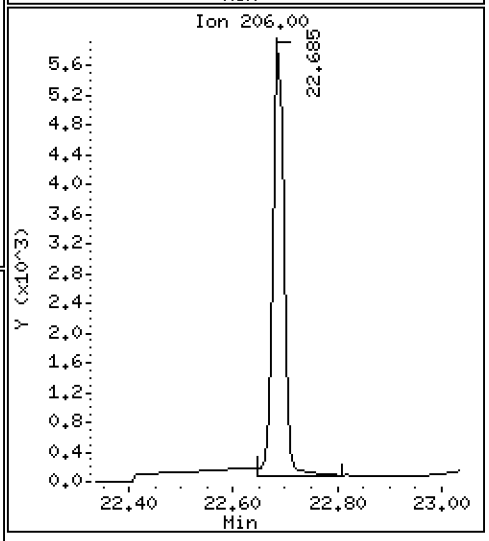
67 Butylbenzylphthalate

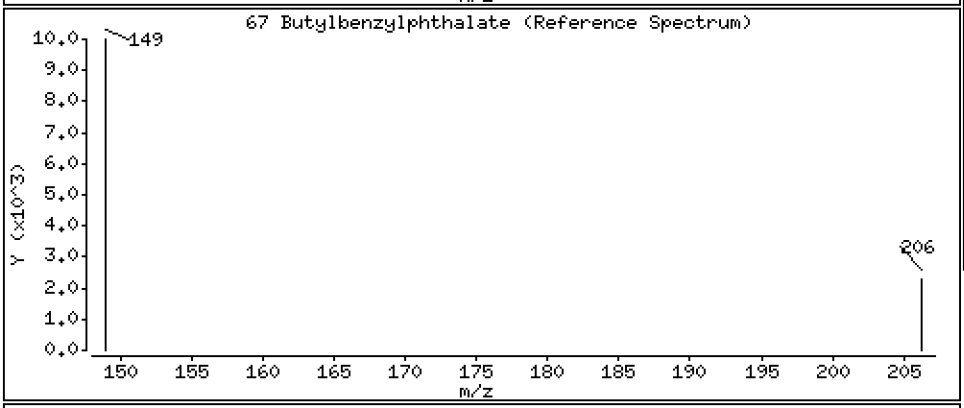
Concentration: 0.3203 ug/L

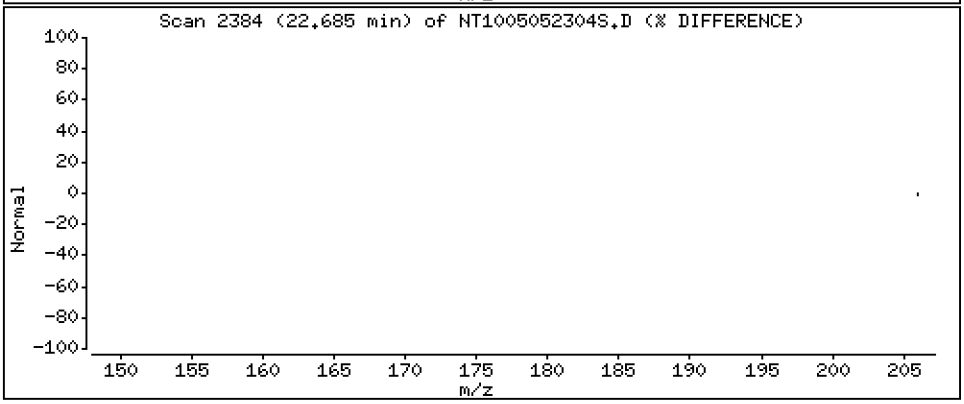












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

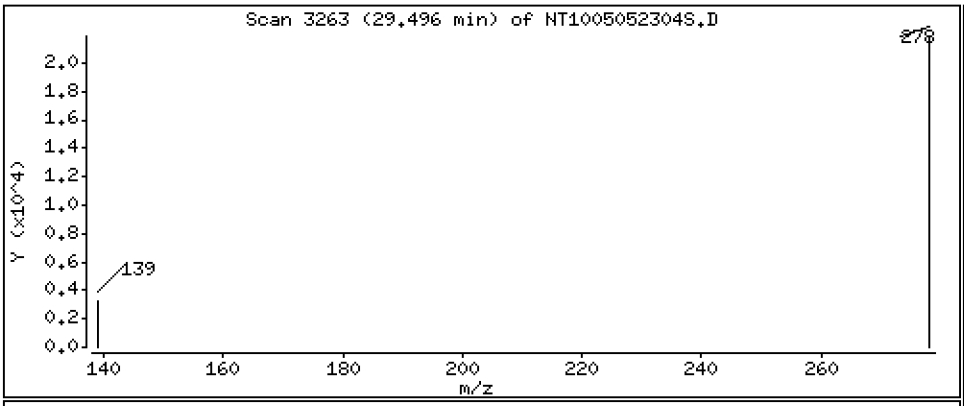
Operator: DSD

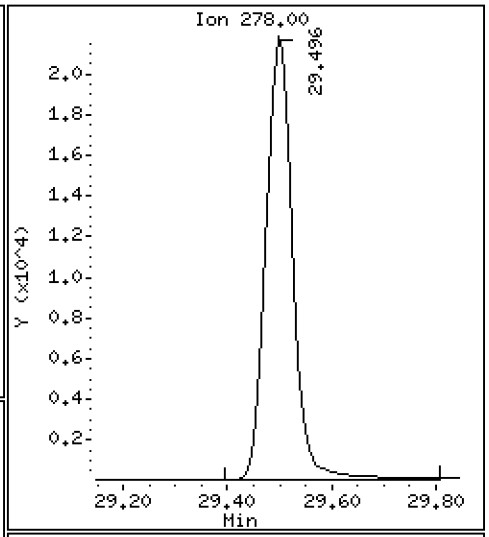
Column phase: ZB-5msi

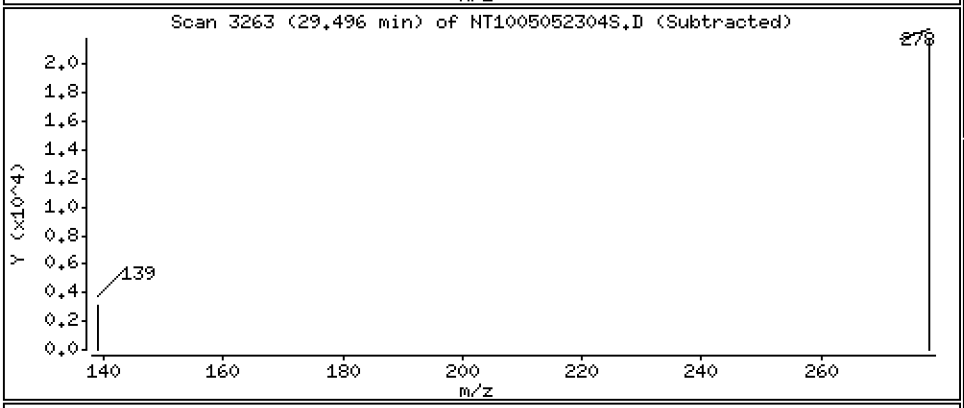
Column diameter: 0.25

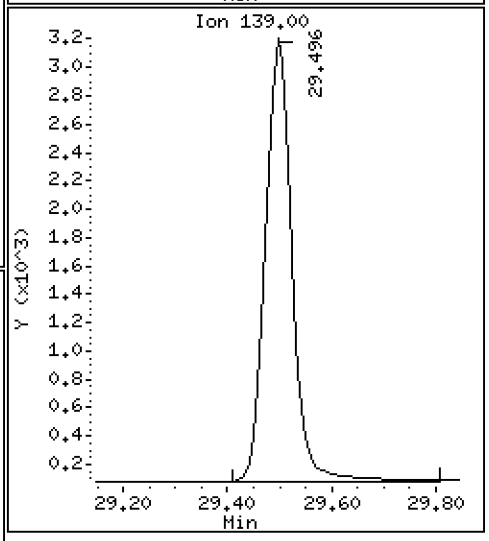
79 Dibenzo(a,h)anthracene

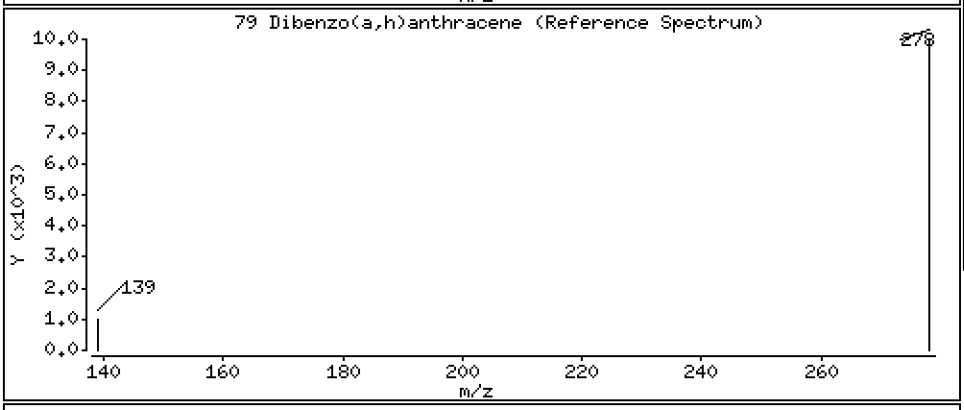
Concentration: 0.4229 ug/L

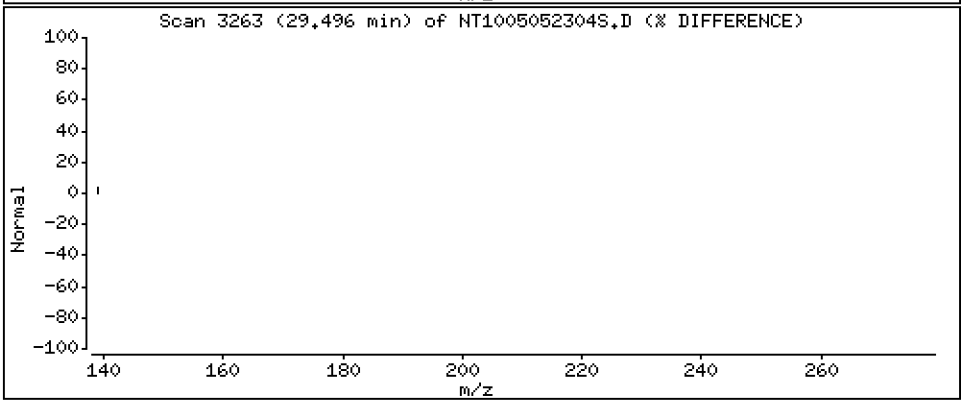












Data File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D

Date : 05-MAY-2023 12:43

Client ID:

Instrument: nt10.i

Sample Info: SLE0466-LCV2

Volume Injected (uL): 1.0

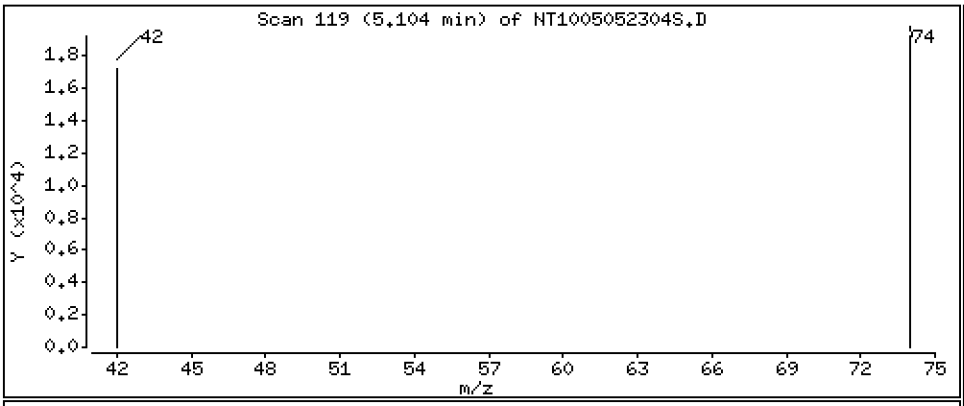
Operator: DSD

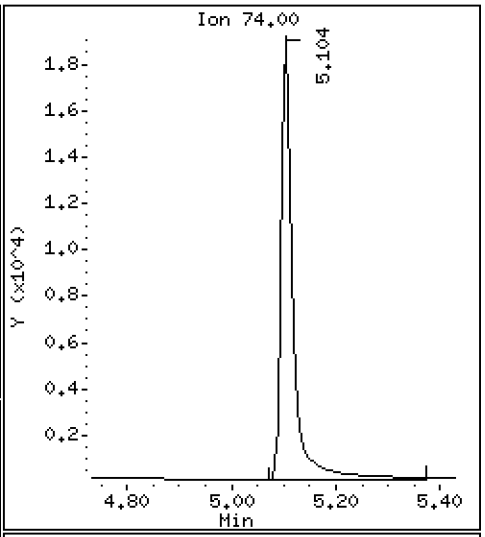
Column phase: ZB-5msi

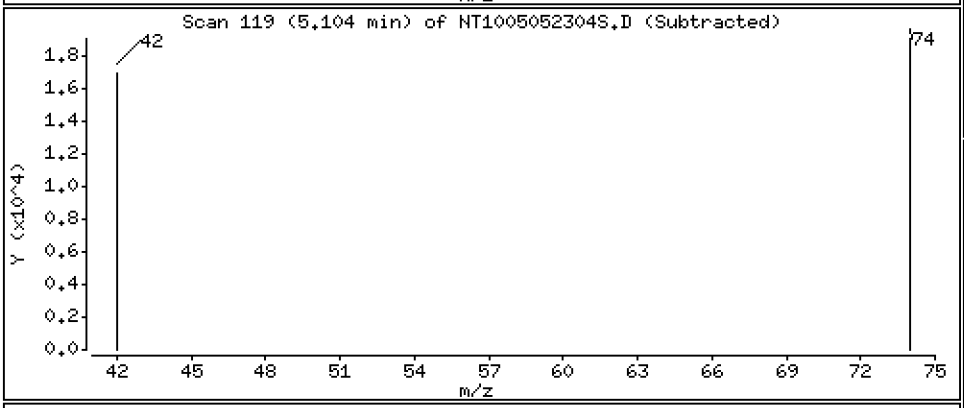
Column diameter: 0.25

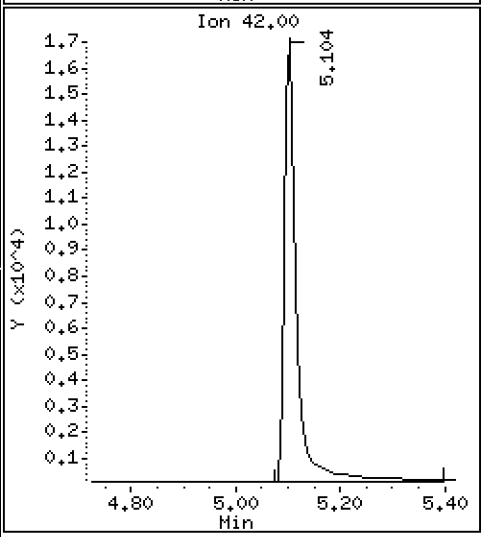
90 N-Nitrosodimethylamine

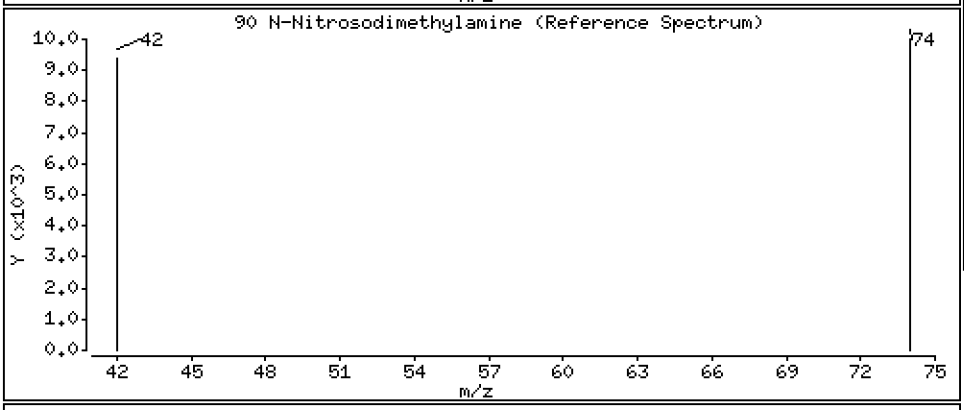
Concentration: 0.9323 ug/L

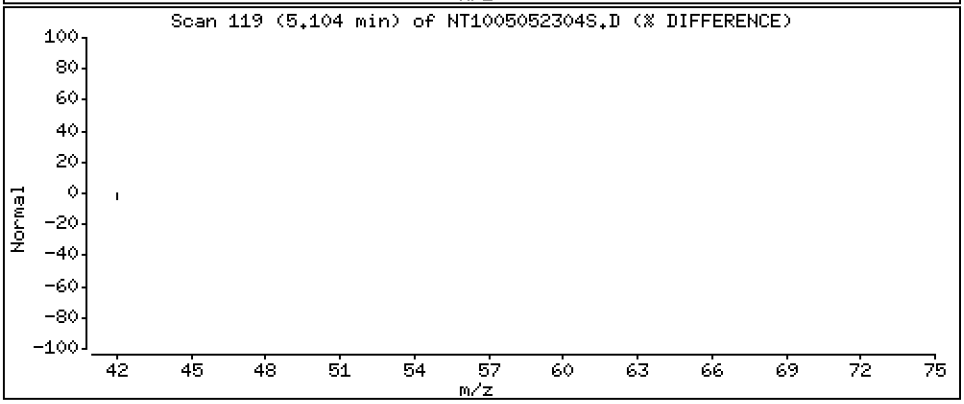












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230505.b\20230505.b\NT1005052304S.D
Lab Smp Id: SLE0466-LCV2
Inj Date : 05-MAY-2023 12:43 MS Autotune Date: 16-JAN-2023 17:42
Operator : DSD Inst ID: nt10.i
Smp Info : SLE0466-LCV2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Meth Date : 31-May-2023 14:25 van Quant Type: ISTD
Cal Date : 01-MAY-2023 20:04 Cal File: NT1005012310S.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.258	7.243	(0.763)	41136	0.66373	0.6637(R)
3	Phenol	94	8.858	8.842	(0.932)	36404	0.46892	0.4689
7	1,3-Dichlorobenzene	146	9.438	9.430	(0.993)	37214	0.45579	0.4558
* 8	1,4-Dichlorobenzene-d4	152	9.507	9.492	(1.000)	203454	4.00000	
9	1,4-Dichlorobenzene	146	9.531	9.523	(1.002)	36596	0.45256	0.4526
11	Benzyl alcohol	79	9.763	9.756	(1.027)	24242	0.45154	0.4515
12	1,2-Dichlorobenzene	146	9.895	9.880	(1.041)	35633	0.45814	0.4581
13	2-Methylphenol	108	9.981	9.965	(1.050)	26551	0.45698	0.4570
15	4-Methylphenol	108	10.245	10.237	(1.078)	27608	0.45192	0.4519
16	N-Nitroso-di-n-propylamine	70	10.322	10.315	(1.086)	19018	0.43145	0.4315
22	2,4-Dimethylphenol	107	11.296	11.288	(0.942)	64830	0.89743	0.8974(M)
24	Benzoic acid	105	11.398	11.381	(0.950)	3760	0.08010	0.08010
26	1,2,4-Trichlorobenzene	180	11.903	11.896	(0.992)	31893	0.43032	0.4303
* 27	Naphthalene-d8	136	11.996	11.988	(1.000)	727036	4.00000	
30	Hexachlorobutadiene	225	12.390	12.382	(1.033)	20568	0.43465	0.4346
39	Dimethylphthalate	163	15.106	15.099	(0.967)	60459	0.42721	0.4272
* 42	Acenaphthene-d10	162	15.617	15.617	(1.000)	373332	4.00000	
50	Diethylphthalate	149	16.560	16.560	(1.060)	64483	0.42435	0.4244
54	N-Nitrosodiphenylamine	169	16.954	16.954	(0.908)	44334	0.45819	0.4582
57	Hexachlorobenzene	284	18.042	18.034	(0.966)	20624	0.43526	0.4353

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.398	18.390	(0.985)	10288	0.36183	0.3618
*	59 Phenanthrene-d10	188	18.669	18.669	(1.000)	741935	4.00000	
$	66 Terphenyl-d14	244	21.771	21.771	(0.919)	54715	0.40606	0.4061(R)
	67 Butylbenzylphthalate	149	22.685	22.685	(0.958)	35264	0.32025	0.3203
*	69 Chrysene-d12	240	23.684	23.684	(1.000)	624910	4.00000	
*	77 Perylene-d12	264	26.525	26.517	(1.000)	567354	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.496	29.496	(1.112)	77452	0.42292	0.4229
	90 N-Nitrosodimethylamine	74	5.103	5.080	(0.537)	31520	0.93226	0.9323

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1005052304S.D
Lab Smp Id: SLE0466-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: DSD
Method File: \\target\share\chem3\nt10.i\20230505.b\20230505.b\SIMABN2.m
Misc Info:

Calibration Date: 05-MAY-2023
Calibration Time: 13:22
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	182700	91350	365400	203454	11.36
27 Naphthalene-d8	662220	331110	1324440	727036	9.79
42 Acenaphthene-d10	335558	167779	671116	373332	11.26
59 Phenanthrene-d10	678190	339095	1356380	741935	9.40
69 Chrysene-d12	566969	283485	1133938	624910	10.22
77 Perylene-d12	522906	261453	1045812	567354	8.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.49	8.99	9.99	9.51	0.16
27 Naphthalene-d8	11.99	11.49	12.49	12.00	0.06
42 Acenaphthene-d10	15.62	15.12	16.12	15.62	-0.00
59 Phenanthrene-d10	18.67	18.17	19.17	18.67	-0.00
69 Chrysene-d12	23.68	23.18	24.18	23.68	-0.00
77 Perylene-d12	26.52	26.02	27.02	26.53	0.03

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

REVIEW SUMMARY FOR FILE - NT1005052304S.D

Lab ID: SLE0466-LCV2
nt10.i, 20230505.b\20230505.b\SIMABN2.m,   05-MAY-2023 12:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230505.b/NT1005052305S.D

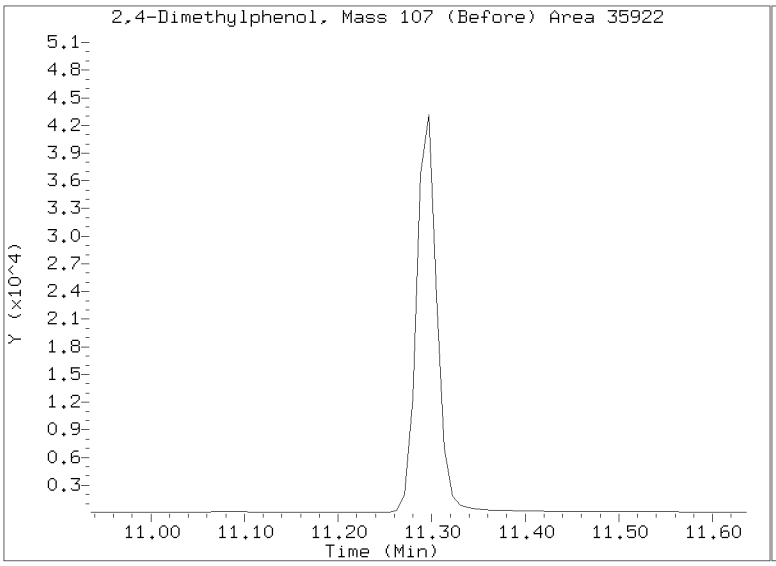
On Column LOD for nt10.i, 20230505.b\SIMABN2.m, PSDDA.sub = 0.0000

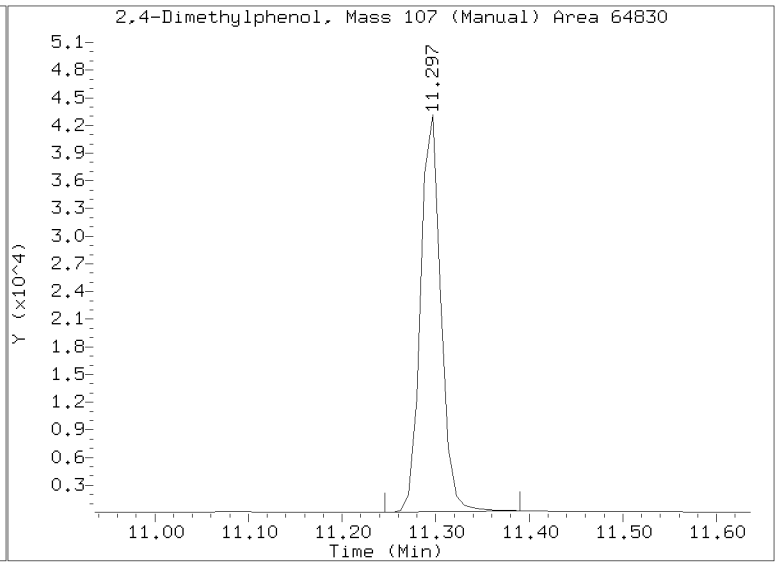
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230505.b/20230505.b/NT1005052304S.D
Injection Date: 05-MAY-2023 12:43
Lab ID:SLE0466-LCV2 Client ID:
Report Date: 05/31/2023 14:30





Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0082	Instrument:	NT10
		Calibration:	GE00018

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLE0082-TUN1	NT1005012301S.D	NA	05/01/23 14:35
ABN 10.0	SLE0082-CAL8	NT1005012303S.D	NA	05/01/23 15:31
ABN 5.0	SLE0082-CAL7	NT1005012304S.D	NA	05/01/23 16:10
ABN 2.5	SLE0082-CAL6	NT1005012305S.D	NA	05/01/23 16:49
ABN 1.0	SLE0082-CAL5	NT1005012306S.D	NA	05/01/23 17:28
ABN 0.5	SLE0082-CAL4	NT1005012307S.D	NA	05/01/23 18:07
ABN 0.2	SLE0082-CAL3	NT1005012308S.D	NA	05/01/23 18:46
ABN 0.1	SLE0082-CAL2	NT1005012309S.D	NA	05/01/23 19:25
ABN 0.05	SLE0082-CAL1	NT1005012310S.D	NA	05/01/23 20:04
SCV 5.0	SLE0082-SCV1	NT1005012311S.D	NA	05/01/23 20:43
Initial Cal Blank	SLE0082-ICB1	NT1005012312S.D	NA	05/01/23 21:22

ANALYSIS SEQUENCE

SLE0082

Instrument ID: NT10
Calibration ID: GE00018
MS EM Level: EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: ZB-5MSi

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0082-TUN1	MS Tune	QC		1	L002618		05/01/2023 14:35	NT1005012301S.D	JGR	
SLE0082-CAL1	ABN 0.05	QC		2	L002878	K010831	05/01/2023 20:04	NT1005012310S.D	JGR	
SLE0082-CAL2	ABN 0.1	QC		3	L002877	K010831	05/01/2023 19:25	NT1005012309S.D	JGR	
SLE0082-CAL3	ABN 0.2	QC		4	K011105	K010831	05/01/2023 18:46	NT1005012308S.D	JGR	
SLE0082-CAL4	ABN 0.5	QC		5	K011106	K010831	05/01/2023 18:07	NT1005012307S.D	JGR	
SLE0082-CAL5	ABN 1.0	QC		6	K011107	K010831	05/01/2023 17:28	NT1005012306S.D	JGR	
SLE0082-CAL6	ABN 2.5	QC		7	K011108	K010831	05/01/2023 16:49	NT1005012305S.D	JGR	
SLE0082-CAL7	ABN 5.0	QC		8	K011109	K010831	05/01/2023 16:10	NT1005012304S.D	JGR	
SLE0082-CAL8	ABN 10.0	QC		9	K011110	K010831	05/01/2023 15:31	NT1005012303S.D	JGR	
SLE0082-SCV1	SCV 5.0	QC		10	K010066	K010831	05/01/2023 20:43	NT1005012311S.D	JGR	
SLE0082-ICB1	Initial Cal Blank	QC		11	K005156	K010831	05/01/2023 21:22	NT1005012312S.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b\20230501.b

	Time	Filename	LabID	ClientId	DF											
1	1435	NT1005012301S.D	SLE0082-TUN1		1	|NO ISTDS FOUND||										
2	1531	NT1005012303S.D	SLE0082-CAL8		1	| 9.49	161514||12.00	570419||15.63	292457||18.68	621963||23.71	460111||26.55	359500|				
3	1610	NT1005012304S.D	SLE0082-CAL7		1	| 9.49	152136||12.00	537687||15.63	277062||18.68	559131||23.71	409150||26.56	347622|				
4	1649	NT1005012305S.D	SLE0082-CAL6		1	| 9.49	149844||11.99	519732||15.63	272727||18.68	563850||23.70	418693||26.55	365369|				
5	1728	NT1005012306S.D	SLE0082-CAL5		1	| 9.50	169173||11.99	594924||15.63	304980||18.68	609190||23.70	479061||26.54	427162|				
6	1807	NT1005012307S.D	SLE0082-CAL4		1	| 9.49	154252||11.99	543651||15.63	277425||18.68	552604||23.69	436983||26.53	398475|				
7	1846	NT1005012308S.D	SLE0082-CAL3		1	| 9.49	173835||11.99	608907||15.62	304177||18.67	596590||23.69	484703||26.53	440507|				
8	1925	NT1005012309S.D	SLE0082-CAL2		1	| 9.49	161930||11.99	564967||15.62	276925||18.67	537805||23.68	433067||26.52	402089|				
9	2004	NT1005012310S.D	SLE0082-CAL1		1	| 9.49	175584||11.99	608327||15.62	297084||18.68	579785||23.69	462282||26.53	432429|				
10	2043	NT1005012311S.D	SLE0082-SCV1		1	| 9.49	142531||11.99	510045||15.62	263993||18.68	506239||23.70	402889||26.53	365734|				
11	2122	NT1005012312S.D	SLE0082-ICB1		1	| 9.49	165323||11.99	600558||15.62	293573||18.68	566241||23.70	440951||26.54	417631|				

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230501.b\20230501.b

ARI Job No.: SLE0 Method: DFTPP8270E.m Instrument: nt10.i Date: 01-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1435	NT1005012301S.D	SLE0082-TUN1		1	NO MANUAL INTEGRATION
1531	NT1005012303S.D	SLE0082-CAL8		1	NO MANUAL INTEGRATION
1610	NT1005012304S.D	SLE0082-CAL7		1	NO MANUAL INTEGRATION
1649	NT1005012305S.D	SLE0082-CAL6		1	NO MANUAL INTEGRATION
1728	NT1005012306S.D	SLE0082-CAL5		1	NO MANUAL INTEGRATION
1807	NT1005012307S.D	SLE0082-CAL4		1	NO MANUAL INTEGRATION
1846	NT1005012308S.D	SLE0082-CAL3		1	NO MANUAL INTEGRATION
1925	NT1005012309S.D	SLE0082-CAL2		1	NO MANUAL INTEGRATION
2004	NT1005012310S.D	SLE0082-CAL1		1	NO MANUAL INTEGRATION
2043	NT1005012311S.D	SLE0082-SCV1		1	NO MANUAL INTEGRATION
2122	NT1005012312S.D	SLE0082-ICB1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-May-2023 15:30

NT1005012301S.D	Data Locked	deenayd, 04-
NT1005012302S.D	Data Locked	deenayd, 04-
NT1005012303S.D	Data Locked	deenayd, 04-
NT1005012304S.D	Data Locked	deenayd, 04-
NT1005012305S.D	Data Locked	deenayd, 04-
NT1005012306S.D	Data Locked	deenayd, 04-
NT1005012307S.D	Data Locked	deenayd, 04-
NT1005012308S.D	Data Locked	deenayd, 04-
NT1005012309S.D	Data Locked	deenayd, 04-
NT1005012310S.D	Data Locked	deenayd, 04-
NT1005012311S.D	Data Locked	deenayd, 04-
NT1005012312S.D	Data Locked	deenayd, 04-

ARI Labs, Inc.

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Start Cal Date : 01-MAY-2023 15:31
End Cal Date : 01-MAY-2023 20:04
Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Last Edit : 04-May-2023 13:53 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012310S.D
Level 2: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012309S.D
Level 3: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012308S.D
Level 4: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012307S.D
Level 5: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012306S.D
Level 6: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012305S.D
Level 7: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012304S.D
Level 8: \\target\share\chem3\nt10.i\20230501.b\20230501.b\NT1005012303S.D

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
138 Chlorobenzilate	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
139 Isodrin	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
140 Diallate A	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
141 Diallate B	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
142 1,2-Dibromo-3-Chloropropane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
135 2,3,5,6-Tetrachlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
136 2,3,4,5-tetrachlorophenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
137 NewCpnd_131	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
133 Butylatedhydroxytoluene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
132 3,6-Dimethylphenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
144 alpha-Terpineol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
125 Safrole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
124 3,4-Dimethylphenol	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
123 Acetophenone	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
122 Furfuraldehyde	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
143 1,4-Dioxane	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
121 Quinoline	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
111 Azobenzene (1,2-DP-Hydrazine)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
109 3,4,5-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
108 4,5,6-Trichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
107 4,5-Dichloro-2-Methoxyphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
105 1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
3 Phenol	1.45025	1.45544	1.53720	1.56020	1.56760	1.56347					
	1.50977	1.56662					AVRG		1.52632		3.23437
4 Bis(2-Chloroethyl)ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
6 2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
7 1,3-Dichlorobenzene	1.66074	1.65849	1.64397	1.62757	1.59262	1.56804					
	1.52352	1.56671					AVRG		1.60521		3.12570
9 1,4-Dichlorobenzene	1.62156	1.69184	1.60842	1.60086	1.56058	1.55005					
	1.50998	1.57533					AVRG		1.58983		3.43742

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
11 Benzyl alcohol	0.91990	0.91669	0.96505	1.02710	1.09923	1.14843					
	1.14812	1.21966					AVRG		1.05552		10.90337
12 1,2-Dichlorobenzene	1.58693	1.55845	1.55090	1.55040	1.52419	1.50213					
	1.45071	1.50943					AVRG		1.52914		2.75449
13 2-Methylphenol	1.11309	1.04267	1.07320	1.15370	1.17030	1.18358					
	1.17711	1.22472					AVRG		1.14230		5.35339
14 2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
15 4-Methylphenol	1.04702	1.08837	1.13337	1.20530	1.24613	1.28343					
	1.27209	1.33279					AVRG		1.20106		8.45813
16 N-Nitroso-di-n-propylamine	0.86477	0.80282	0.81111	0.86176	0.88721	0.90317					
	0.88713	0.91495					AVRG		0.86661		4.71656
17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
22 2,4-Dimethylphenol	0.26407	0.22918	0.21726	0.21904	0.22228	0.22823					
	0.22162	0.22816					AVRG		0.22873		6.54183
23 Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
24 Benzoic acid	+++++	+++++	12899	45881	135982	348393					
	768216	1817498					QUAD	0.000e+000	3.87309	-0.23165	0.99970
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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	5.0000 Level 7	10.0000 Level 8									
26 1,2,4-Trichlorobenzene	0.43556	0.41433	0.41228	0.40554	0.39984	0.40053					
	0.38663	0.40737					AVRG		0.40776		3.47154
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
30 Hexachlorobutadiene	0.27143	0.25417	0.25580	0.25555	0.25653	0.26329					
	0.25576	0.27027					AVRG		0.26035		2.70582
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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	5.0000 Level 7	10.0000 Level 8									
34 2,4,6-Trichlorophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
35 2,4,5-Trichlorophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
37 2-Chloronaphthalene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
38 2-Nitroaniline	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
39 Dimethylphthalate	1.51607	1.49066	1.45724	1.50839	1.55319	1.53496					
	1.50848	1.56149					AVRG		1.51631		2.23238
40 Acenaphthylene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
41 2,6-Dinitrotoluene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

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	5.0000 Level 7	10.0000 Level 8									
43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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	5.0000 Level 7	10.0000 Level 8									
50 Diethylphthalate	1.48806	1.48618	1.52510	1.61707	1.68684	1.72809					
	1.70962	1.78392					AVRG		1.62811		7.14994
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
54 N-Nitrosodiphenylamine	0.47452	0.48731	0.51989	0.53909	0.55404	0.53333					
	0.53023	0.53484					AVRG		0.52166		5.19480
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
57 Hexachlorobenzene	0.26796	0.25995	0.25833	0.25610	0.25287	0.24824					
	0.24838	0.25184					AVRG		0.25546		2.59298

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-MAY-2023 15:31
End Cal Date : 01-MAY-2023 20:04
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
58 Pentachlorophenol	+++++ / 240737	2468 / 601621	5411	15280	41389	108836	QUAD	0.000e+000	6.54335	-1.42971	0.99965
60 Phenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
61 Anthracene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
62 Carbazole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
63 Di-n-butylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
64 Fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
65 Pyrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
67 Butylbenzylphthalate	2187	4388	11132	30054	76654	183179					
	387291	909576					QUAD	0.000e+000	1.42339	-0.08146	0.99974
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
79 Dibenzo(a,h)anthracene	1.17235	1.21008	1.25051	1.27273	1.31719	1.28288					
	1.35100	1.47259					AVRG		1.29117		7.16585
80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
90 N-Nitrosodimethylamine	0.57340	0.63040	0.66195	0.68244	0.69028	0.70488					
	0.67376	0.70070					AVRG		0.66473		6.60200
91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
101 Cholesterol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
102 beta-Sitosterol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
103 Pyridine	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 1 2-Fluorophenol	1.08256	1.14058	1.19324	1.23694	1.26037	1.28450					
	1.24581	1.30396					AVRG		1.21849		6.17959
$ 145 d8-1,4-Dioxane	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 2 Phenol-d5	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 5 2-Chlorophenol-d4	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 10 1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 18 Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 66 Terphenyl-d14	0.74050	0.77134	0.80775	0.83954	0.90000	0.91257					
	0.94346	0.98488					AVRG		0.86250		10.00864
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Last Edit : 04-May-2023 13:53 deenayd

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Last Edit : 04-May-2023 13:53 deenayd

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	NT1005012303S	NT1005012304S	NT1005012305S	NT1005012306S	NT1005012307S	NT1005012308S	NT1005012309S	NT1005012310S
INJ.DATE:	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023	01-MAY-2023
INJ.TIME:	15:31	16:10	16:49	17:28	18:07	18:46	19:25	20:04

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.243	7.235	7.236	7.236	7.236	7.236	7.236	7.244	7.243	6.743-7.743	7.238	0.004
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	33.580	33.080-34.080	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.873	30.373-31.373	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.496	14.996-15.996	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.428	19.928-20.928	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.471	19.971-20.971	+++++	+++++
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.828	7.328-8.328	+++++	+++++
* 134 Di-n-octylphthalate-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.768	23.268-24.268	+++++	+++++
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.190	13.690-14.690	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.262	30.762-31.762	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.954	29.454-30.454	+++++	+++++
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.752	23.252-24.252	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.717	27.217-28.217	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.566	20.066-21.066	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.796	19.296-20.296	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.349	22.849-23.849	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.474	21.974-22.974	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.191	10.691-11.691	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.779	17.279-18.279	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.310	15.810-16.810	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.707	17.207-18.207	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.921	8.421-9.421	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.736	3.236-4.236	+++++	+++++
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.914	2.414-3.414	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.148	19.648-20.648	+++++	+++++
120 2,3,4,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.588	15.088-16.088	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.587	38.087-39.087	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.382	19.882-20.882	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.734	18.234-19.234	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.987	16.487-17.487	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.204	14.704-15.704	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.586	21.086-22.086	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.692	17.192-18.192	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.268	15.768-16.768	+++++	+++++
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.055	17.555-18.555	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.228	16.728-17.728	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
108	4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.517	16.017-17.017	+++++	+++++
107	4,5-Dichloro-2-Methoxy	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.803	14.303-15.303	+++++	+++++
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.843	11.343-12.343	+++++	+++++
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.927	12.427-13.427	+++++	+++++
$ 2	Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.235	7.735-8.735	+++++	+++++
3	Phenol	8.850	8.842	8.843	8.843	8.835	8.843	8.843	8.843	8.850	8.350-9.350	8.843	0.004
4	Bis(2-Chloroethyl)ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.397	7.897-8.897	+++++	+++++
$ 5	2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.490	7.990-8.990	+++++	+++++
6	2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.521	8.021-9.021	+++++	+++++
7	1,3-Dichlorobenzene	9.430	9.430	9.430	9.430	9.430	9.430	9.430	9.430	9.430	8.930-9.930	9.430	0.000
* 8	1,4-Dichlorobenzene-d4	9.492	9.492	9.492	9.500	9.492	9.492	9.492	9.492	9.492	8.992-9.992	9.493	0.003
9	1,4-Dichlorobenzene	9.523	9.523	9.523	9.523	9.523	9.523	9.523	9.523	9.523	9.023-10.023	9.523	0.000
$ 10	1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.500	9.000-10.000	+++++	+++++
11	Benzyl alcohol	9.756	9.756	9.748	9.756	9.748	9.748	9.756	9.756	9.756	9.256-10.256	9.753	0.004
12	1,2-Dichlorobenzene	9.888	9.880	9.880	9.880	9.880	9.880	9.880	9.880	9.888	9.388-10.388	9.881	0.003
13	2-Methylphenol	9.973	9.965	9.966	9.966	9.966	9.966	9.966	9.966	9.973	9.473-10.473	9.967	0.003
14	2,2'-oxybis(1-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.413	8.913-9.913	+++++	+++++
15	4-Methylphenol	10.237	10.237	10.238	10.230	10.230	10.230	10.230	10.238	10.237	9.737-10.737	10.234	0.004
16	N-Nitroso-di-n-propyla	10.323	10.315	10.315	10.315	10.307	10.307	10.307	10.315	10.323	9.823-10.823	10.313	0.005
17	Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.809	9.309-10.309	+++++	+++++
$ 18	Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.917	9.417-10.417	+++++	+++++
19	Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.948	9.448-10.448	+++++	+++++
20	Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.399	9.899-10.899	+++++	+++++
21	2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.575	10.075-11.075	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	22 2,4-Dimethylphenol	10.237	10.237	10.230	10.230	10.230	10.230	10.230	10.230	10.237	9.737-10.737	10.232	0.003
	23 Bis(2-Chloroethoxy)met	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.830	10.330-11.330	+++++	+++++
	24 Benzoic acid	11.551	11.483	11.441	11.398	11.373	11.356	11.356	11.373	11.551	11.051-12.051	11.417	0.070
	25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.033	10.533-11.533	+++++	+++++
	26 1,2,4-Trichlorobenzene	11.904	11.904	11.904	11.904	11.896	11.896	11.896	11.896	11.904	11.404-12.404	11.900	0.004
*	27 Naphthalene-d8	11.996	11.996	11.989	11.989	11.989	11.989	11.989	11.989	11.996	11.496-12.496	11.991	0.003
	28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.326	10.826-11.826	+++++	+++++
	29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.457	10.957-11.957	+++++	+++++
	30 Hexachlorobutadiene	12.390	12.390	12.390	12.390	12.383	12.383	12.383	12.383	12.390	11.890-12.890	12.387	0.004
	31 4-Chloro-3-methylpheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.432	11.932-12.932	+++++	+++++
	32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.710	12.210-13.210	+++++	+++++
	33 Hexachlorocyclopentadi	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.182	12.682-13.682	+++++	+++++
	34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.330	12.830-13.830	+++++	+++++
	35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.415	12.915-13.915	+++++	+++++
$	36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.484	12.984-13.984	+++++	+++++
	37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.686	13.186-14.186	+++++	+++++
	38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.941	13.441-14.441	+++++	+++++
	39 Dimethylphthalate	15.114	15.114	15.115	15.107	15.107	15.099	15.099	15.107	15.114	14.614-15.614	15.108	0.006
	40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.545	14.045-15.045	+++++	+++++
	41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.506	14.006-15.006	+++++	+++++
*	42 Acenaphthene-d10	15.625	15.625	15.625	15.625	15.625	15.618	15.618	15.618	15.625	15.125-16.125	15.622	0.004
	43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.785	14.285-15.285	+++++	+++++
	44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.924	14.424-15.424	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.001	14.501-15.501	+++++	+++++
	46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.248	14.748-15.748	+++++	+++++
	47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.171	14.671-15.671	+++++	+++++
	48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.302	14.802-15.802	+++++	+++++
	49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	50 Diethylphthalate	16.584	16.576	16.568	16.568	16.568	16.561	16.561	16.561	16.584	16.084-17.084	16.568	0.008
	51 4-Chlorophenyl-phenyle	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.037	15.537-16.537	+++++	+++++
	53 4,6-Dinitro-2-methylph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.145	15.645-16.645	+++++	+++++
	54 N-Nitrosodiphenylamine	16.977	16.969	16.970	16.962	16.962	16.954	16.954	16.962	16.977	16.477-17.477	16.964	0.008
$	55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.477	15.977-16.977	+++++	+++++
	56 4-Bromophenyl-phenylet	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.939	16.439-17.439	+++++	+++++
	57 Hexachlorobenzene	18.050	18.057	18.050	18.050	18.050	18.042	18.042	18.042	18.050	17.550-18.550	18.048	0.005
	58 Pentachlorophenol	18.406	18.406	18.406	18.406	18.406	18.398	18.391	18.399	18.406	17.906-18.906	18.402	0.006
*	59 Phenanthrene-d10	18.685	18.684	18.685	18.677	18.677	18.669	18.669	18.677	18.685	18.185-19.185	18.678	0.006
	60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.899	17.399-18.399	+++++	+++++
	61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.991	17.491-18.491	+++++	+++++
	62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.324	17.824-18.824	+++++	+++++
	63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.152	18.652-19.652	+++++	+++++
	64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.289	19.789-20.789	+++++	+++++
	65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.715	20.215-21.215	+++++	+++++
$	66 Terphenyl-d14	21.787	21.787	21.787	21.787	21.780	21.779	21.772	21.780	21.787	21.287-22.287	21.782	0.006
	67 Butylbenzylphthalate	22.701	22.701	22.701	22.701	22.693	22.693	22.685	22.693	22.701	22.201-23.201	22.696	0.006
	68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.875	22.375-23.375	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	69 Chrysene-d12	23.707	23.707	23.700	23.700	23.692	23.692	23.684	23.692	23.707	23.207-24.207	23.697	0.008
	70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.844	22.344-23.344	+++++	+++++
	71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.952	22.452-23.452	+++++	+++++
	72 bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.701	22.201-23.201	+++++	+++++
	73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.990	23.490-24.490	+++++	+++++
	74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.687	24.187-25.187	+++++	+++++
	75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.725	24.225-25.225	+++++	+++++
	76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.283	24.783-25.783	+++++	+++++
*	77 Perylene-d12	26.549	26.556	26.549	26.541	26.533	26.526	26.518	26.533	26.549	26.049-27.049	26.538	0.013
	78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.794	27.294-28.294	+++++	+++++
	79 Dibenzo(a,h)anthracene	29.558	29.550	29.543	29.527	29.512	29.496	29.488	29.520	29.558	29.058-30.058	29.524	0.025
	80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.494	27.994-28.994	+++++	+++++
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.238	16.738-17.738	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.316	28.816-29.816	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.007	25.507-26.507	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	44.609	44.109-45.109	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.066	15.566-16.566	+++++	+++++
	90 N-Nitrosodimethylamine	5.088	5.080	5.073	5.088	5.073	5.088	5.088	5.104	5.088	4.588-5.588	5.085	0.010
	91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.305	7.805-8.805	+++++	+++++
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.615	21.115-22.115	+++++	+++++
	93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.529	20.029-21.029	+++++	+++++
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.686	17.186-18.186	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.957	26.457-27.457	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230501.b\20230501.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230501.b\20230501.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.609	19.109-20.109	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.438	24.938-25.938	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.384	25.884-26.884	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.881	43.381-44.381	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	45.573	45.073-46.073	+++++	+++++
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.535	4.035-5.035	+++++	+++++

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0466	Instrument:	NT10
		Calibration:	GE00018

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLE0466-TUN1	NT1005052301S.D	NA	05/05/23 10:04
ABN 0.5	SLE0466-LCV2	NT1005052304S.D	NA	05/05/23 12:43
Initial Cal Check	SLE0466-ICV1	NT1005052305S.D	NA	05/05/23 13:22
Low Cal Check	SLE0466-LCV1	NT1005052306S.D	NA	05/05/23 14:01
Blank	BLD0329-BLK2	NT1005052307S.D	Solid	05/05/23 14:40
LCS	BLD0329-BS2	NT1005052308S.D	Solid	05/05/23 15:18
LCS Dup	BLD0329-BSD2	NT1005052309S.D	Solid	05/05/23 15:57
Reference	BLD0329-SRM2	NT1005052310S.D	Solid	05/05/23 16:36
LDW23-SS1804	23D0136-01	NT1005052311S.D	Solid	05/05/23 17:15
LDW23-SS1803	23D0136-03	NT1005052312S.D	Solid	05/05/23 17:54
LDW23-SS1803	BLD0329-MS2	NT1005052313S.D	Solid	05/05/23 18:32
LDW23-SS1803	BLD0329-MSD2	NT1005052314S.D	Solid	05/05/23 19:11
Calibration Check	SLE0466-CCV1	NT1005052317S.D	NA	05/05/23 21:08

Printed: 5/31/2023 2:00:22PM

ANALYSIS SEQUENCE

SLE0466

Instrument ID: NT10
Calibration ID: GE00018
MS EM Level: 1400 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L004747

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0466-TUN1	MS Tune	QC		1	L005516		05/05/2023 10:04	NT1005052301S.D	DSD	
SLE0466-LCV2	ABN 0.5	QC		2	K011106	K010831	05/05/2023 12:43	NT1005052304S.D	DSD	
SLE0466-ICV1	Initial Cal Check	QC		3	L005948	K010831	05/05/2023 13:22	NT1005052305S.D	DSD	
SLE0466-LCV1	Low Cal Check	QC		4	L005953	K010831	05/05/2023 14:01	NT1005052306S.D	DSD	
BLD0329-BLK2	Blank	QC		5		K010831	05/05/2023 14:40	NT1005052307S.D	DSD	
BLD0329-BS2	LCS	QC		6		K010831	05/05/2023 15:18	NT1005052308S.D	DSD	
BLD0329-BSD2	LCS Dup	QC		7		K010831	05/05/2023 15:57	NT1005052309S.D	DSD	
BLD0329-SRM2	Reference	QC		8		K010831	05/05/2023 16:36	NT1005052310S.D	DSD	
23D0136-01	LDW23-SS1804	270E-SIM Dual Scan SVO	A 04	9		K010831	05/05/2023 17:15	NT1005052311S.D	DSD	
23D0136-03	LDW23-SS1803	270E-SIM Dual Scan SVO	A 03	10		K010831	05/05/2023 17:54	NT1005052312S.D	DSD	
BLD0329-MS2	Matrix Spike	QC		11		K010831	05/05/2023 18:32	NT1005052313S.D	DSD	
BLD0329-MSD2	Matrix Spike Dup	QC		12		K010831	05/05/2023 19:11	NT1005052314S.D	DSD	
SLE0466-CCV1	Calibration Check	QC		13	L005948	K010831	05/05/2023 21:08	NT1005052317S.D	DSD	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230505.b\20230505.b

	Time	Filename	LabID	ClientId	DF												
1	1004	NT1005052301S.D	SLE0466-TUN1		1	NO ISTDS FOUND											
2	1028	NT1005052302S.D	SEQ-SCV1		1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
3	1137	NT1005052303S.D	SEQ-ICV1		1	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0
4	1243	NT1005052304S.D	SLE0466-LCV2		1	9.51	203454	12.00	727036	15.62	373332	18.67	741935	23.68	624910	26.53	567354
5	1322	NT1005052305S.D	SLE0466-ICV1		1	9.49	182700	11.99	662220	15.62	335558	18.67	678190	23.68	566969	26.52	522906
6	1401	NT1005052306S.D	SLE0466-LCV1		1	9.49	190296	11.99	664307	15.62	331419	18.67	671733	23.69	544279	26.53	495313
7	1440	NT1005052307S.D	BLD0329-BLK2		1	9.50	185339	11.99	684119	15.61	343668	18.66	674902	23.68	560609	26.52	497276
8	1518	NT1005052308S.D	BLD0329-BS2		1	9.49	163221	11.99	611943	15.62	319820	18.67	624505	23.69	519561	26.53	456900
9	1557	NT1005052309S.D	BLD0329-BSD2		1	9.50	173364	11.99	634980	15.62	331413	18.67	647855	23.69	539738	26.53	462376
10	1636	NT1005052310S.D	BLD0329-SRM2		1	9.50	191872	11.99	706133	15.62	358098	18.67	736880	23.69	566007	26.53	516238
11	1715	NT1005052311S.D	23D0136-01		1	9.50	184248	11.99	688156	15.62	342198	18.67	726795	23.70	539399	26.55	475433
12	1754	NT1005052312S.D	23D0136-03		1	9.50	184634	11.99	697055	15.62	343698	18.68	678617	23.70	495685	26.55	444419
13	1832	NT1005052313S.D	BLD0329-MS2		1	9.50	207184	12.00	771571	15.63	379771	18.68	753456	23.71	592431	26.56	491005
14	1911	NT1005052314S.D	BLD0329-MSD2		1	9.50	177137	12.00	666320	15.62	332083	18.68	662010	23.71	495228	26.56	426867
15	1950	NT1005052315S.D	FULL SCAN-ICV1		1	9.50	210938	12.00	775295	15.62	395722	18.68	755599	23.70	559725	26.54	519002
16	2029	NT1005052316S.D	FULL SCAN-LCV1		1	9.50	219712	11.99	793678	15.62	395728	18.67	833391	23.69	511696	26.54	503828
17	2108	NT1005052317S.D	SLE0466-CCV1		1	9.50	208433	12.00	754909	15.62	388803	18.68	819155	23.70	554558	26.53	517224

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230505.b\20230505.b

Instrument: nt10.i Date: 05-MAY-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1004	NT1005052301S.D	SLE0466-TUN1	1	NO MANUAL INTEGRATION
1028	NT1005052302S.D	SEQ-SCV1	1	NO MANUAL INTEGRATION
1137	NT1005052303S.D	SEQ-ICV1	1	NO MANUAL INTEGRATION
1243	NT1005052304S.D	SLE0466-LCV2	1	2,4-Dimethylphenol,
1322	NT1005052305S.D	SLE0466-ICV1	1	2,4-Dimethylphenol,
1401	NT1005052306S.D	SLE0466-LCV1	1	Pentachlorophenol,
1440	NT1005052307S.D	BLD0329-BLK2	1	1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, Dibenzo(a,h)anthracene,
1518	NT1005052308S.D	BLD0329-BS2	1	NO MANUAL INTEGRATION
1557	NT1005052309S.D	BLD0329-BSD2	1	NO MANUAL INTEGRATION
1636	NT1005052310S.D	BLD0329-SRM2	1	Hexachlorobenzene,
1715	NT1005052311S.D	23D0136-01	1	2-Methylphenol, 1,2,4-Trichlorobenzene, Dimethylphthalate, Diethylphthalate,
1754	NT1005052312S.D	23D0136-03	1	2-Methylphenol, 1,2,4-Trichlorobenzene, Dimethylphthalate, Diethylphthalate,
1832	NT1005052313S.D	BLD0329-MS2	1	NO MANUAL INTEGRATION
1911	NT1005052314S.D	BLD0329-MSD2	1	NO MANUAL INTEGRATION
1950	NT1005052315S.D	FULL SCAN-ICV1	1	NO MANUAL INTEGRATION
2029	NT1005052316S.D	FULL SCAN-LCV1	1	NO MANUAL INTEGRATION
2108	NT1005052317S.D	SLE0466-CCV1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 31-May-2023 14:01

NT1005052301S.D	Data Locked	van, 31-May-2023 14:01
NT1005052302S.D	Data Locked	van, 31-May-2023 14:01
NT1005052303S.D	Data Locked	van, 31-May-2023 14:01
NT1005052304S.D	Data Locked	van, 31-May-2023 14:01
NT1005052305S.D	Data Locked	van, 31-May-2023 14:01
NT1005052306S.D	Data Locked	van, 31-May-2023 14:01
NT1005052307S.D	Data Locked	van, 31-May-2023 14:01
NT1005052308S.D	Data Locked	van, 31-May-2023 14:01
NT1005052309S.D	Data Locked	van, 31-May-2023 14:01
NT1005052310S.D	Data Locked	van, 31-May-2023 14:01
NT1005052311S.D	Data Locked	van, 31-May-2023 14:01
NT1005052312S.D	Data Locked	van, 31-May-2023 14:01
NT1005052313S.D	Data Locked	van, 31-May-2023 14:01
NT1005052314S.D	Data Locked	van, 31-May-2023 14:01
NT1005052315S.D	Data Locked	van, 31-May-2023 14:01
NT1005052316S.D	Data Locked	van, 31-May-2023 14:01
NT1005052317S.D	Data Locked	van, 31-May-2023 14:01

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0082	Instrument:	NT10
Calibration:	GE00018	Calibration Date:	05/01/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLE0082-SCV1 (Solid)			Lab File ID: NT1005012311S.D				Analyzed: 05/01/23 20:43	
2-Fluorophenol	7.5000	0.482	0 - 200	7.235	7.237	-0.0020	N/A	
p-Terphenyl-d14	5.0000	0.488	0 - 200	21.779	21.78187	-0.0029	N/A	
SLE0082-ICB1 (Solid)			Lab File ID: NT1005012312S.D				Analyzed: 05/01/23 21:22	
2-Fluorophenol	7.5000	89.8	27 - 120	7.235	7.237	-0.0020	N/A	
p-Terphenyl-d14	5.0000	86.7	37 - 120	21.787	21.78187	0.0051	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0466
Instrument: NT10
Calibration: GE00018
Calibration Date: 05/01/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLE0466-LCV2 (Solid)			Lab File ID: NT1005052304S.D			Analyzed: 05/05/23 12:43		
2-Fluorophenol	0.75000	88.5	0 - 200	7.258	7.237	0.0210	N/A	
p-Terphenyl-d14	0.50000	81.2	0 - 200	21.771	21.78187	-0.0109	N/A	
SLE0466-ICV1 (Solid)			Lab File ID: NT1005052305S.D			Analyzed: 05/05/23 13:22		
2-Fluorophenol	1.5000	90.9	80 - 120	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	1.0000	85.0	80 - 120	21.771	21.78187	-0.0109	N/A	
SLE0466-LCV1 (Solid)			Lab File ID: NT1005052306S.D			Analyzed: 05/05/23 14:01		
2-Fluorophenol	0.15000	76.6	0 - 200	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	0.10000	73.4	0 - 200	21.779	21.78187	-0.0029	N/A	
BLD0329-BLK2 (Solid)			Lab File ID: NT1005052307S.D			Analyzed: 05/05/23 14:40		
2-Fluorophenol	750.00	37.8	27 - 120	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	500.00	76.0	37 - 120	21.771	21.78187	-0.0109	N/A	
BLD0329-BS2 (Solid)			Lab File ID: NT1005052308S.D			Analyzed: 05/05/23 15:18		
2-Fluorophenol	750.00	52.6	27 - 120	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	500.00	77.8	37 - 120	21.779	21.78187	-0.0029	N/A	
BLD0329-BSD2 (Solid)			Lab File ID: NT1005052309S.D			Analyzed: 05/05/23 15:57		
2-Fluorophenol	750.00	51.5	27 - 120	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	500.00	83.7	37 - 120	21.771	21.78187	-0.0109	N/A	
BLD0329-SRM2 (Solid)			Lab File ID: NT1005052310S.D			Analyzed: 05/05/23 16:36		
2-Fluorophenol	7500.0	74.4	27 - 120	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	5000.0	96.8	37 - 120	21.771	21.78187	-0.0109	N/A	
23D0136-01 (Solid)			Lab File ID: NT1005052311S.D			Analyzed: 05/05/23 17:15		
2-Fluorophenol	749.17	50.0	27 - 120	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	499.45	85.2	37 - 120	21.779	21.78187	-0.0029	N/A	
23D0136-03 (Solid)			Lab File ID: NT1005052312S.D			Analyzed: 05/05/23 17:54		
2-Fluorophenol	749.61	72.4	27 - 120	7.251	7.237	0.0140	N/A	
p-Terphenyl-d14	499.74	98.7	37 - 120	21.787	21.78187	0.0051	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0466	Instrument:	NT10
Calibration:	GE00018	Calibration Date:	05/01/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0329-MS2 (Solid)			Lab File ID: NT1005052313S.D				Analyzed: 05/05/23 18:32	
2-Fluorophenol	749.94	47.2	27 - 120	7.251	7.237	0.0140	N/A	
p-Terphenyl-d14	499.96	77.4	37 - 120	21.787	21.78187	0.0051	N/A	
BLD0329-MSD2 (Solid)			Lab File ID: NT1005052314S.D				Analyzed: 05/05/23 19:11	
2-Fluorophenol	749.94	42.3	27 - 120	7.25	7.237	0.0130	N/A	
p-Terphenyl-d14	499.96	86.5	37 - 120	21.786	21.78187	0.0041	N/A	
SLE0466-CCV1 (Solid)			Lab File ID: NT1005052317S.D				Analyzed: 05/05/23 21:08	
2-Fluorophenol	1.5000	95.4	50 - 150	7.243	7.237	0.0060	N/A	
p-Terphenyl-d14	1.0000	111	50 - 150	21.779	21.78187	-0.0029	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0082	Instrument:	NT10
		Calibration:	GE00018

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLE0082-SCV1)		(Solid)		Lab File ID: NT1005012311S.D				Analyzed: 05/01/23 20:43	
1,4-Dichlorobenzene-d4	142531	9.492	169173	9.499	84	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	510045	11.988	594924	11.988	86	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	263993	15.617	304980	15.625	87	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	506239	18.677	609190	18.676	83	50 - 200	0.001	+/-0.50	
Chrysene-d12	402889	23.699	479061	23.699	84	50 - 200	0.000	+/-0.50	
Perylene-d12	365734	26.533	427162	26.54	86	50 - 200	-0.007	+/-0.50	
Initial Cal Blank (SLE0082-ICB1)		(Solid)		Lab File ID: NT1005012312S.D				Analyzed: 05/01/23 21:22	
1,4-Dichlorobenzene-d4	165323	9.492	169173	9.499	98	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	600558	11.988	594924	11.988	101	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	293573	15.617	304980	15.625	96	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	566241	18.676	609190	18.676	93	50 - 200	0.000	+/-0.50	
Chrysene-d12	440951	23.699	479061	23.699	92	50 - 200	0.000	+/-0.50	
Perylene-d12	417631	26.54	427162	26.54	98	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0466	Instrument:	NT10
		Calibration:	GE00018

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SLE0466-LCV2)		(Solid)	Lab File ID: NT1005052304S.D				Analyzed: 05/05/23 12:43		
1,4-Dichlorobenzene-d4	203454	9.507	182700	9.492	111	50 - 200	0.015	+/-0.50	
Naphthalene-d8	727036	11.996	662220	11.988	110	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	373332	15.617	335558	15.617	111	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	741935	18.669	678190	18.669	109	50 - 200	0.000	+/-0.50	
Chrysene-d12	624910	23.684	566969	23.684	110	50 - 200	0.000	+/-0.50	
Perylene-d12	567354	26.525	522906	26.517	109	50 - 200	0.008	+/-0.50	
Initial Cal Check (SLE0466-ICV1)		(Solid)	Lab File ID: NT1005052305S.D				Analyzed: 05/05/23 13:22		
1,4-Dichlorobenzene-d4	182700	9.492	182700	9.492	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	662220	11.988	662220	11.988	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	335558	15.617	335558	15.617	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	678190	18.669	678190	18.669	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	566969	23.684	566969	23.684	100	50 - 200	0.000	+/-0.50	
Perylene-d12	522906	26.517	522906	26.517	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLE0466-LCV1)		(Solid)	Lab File ID: NT1005052306S.D				Analyzed: 05/05/23 14:01		
1,4-Dichlorobenzene-d4	190296	9.492	182700	9.492	104	50 - 200	0.000	+/-0.50	
Naphthalene-d8	664307	11.988	662220	11.988	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	331419	15.617	335558	15.617	99	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	671733	18.669	678190	18.669	99	50 - 200	0.000	+/-0.50	
Chrysene-d12	544279	23.692	566969	23.684	96	50 - 200	0.008	+/-0.50	
Perylene-d12	495313	26.525	522906	26.517	95	50 - 200	0.008	+/-0.50	
Blank (BLD0329-BLK2)		(Solid)	Lab File ID: NT1005052307S.D				Analyzed: 05/05/23 14:40		
1,4-Dichlorobenzene-d4	185339	9.499	182700	9.492	101	50 - 200	0.007	+/-0.50	
Naphthalene-d8	684119	11.988	662220	11.988	103	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	343668	15.609	335558	15.617	102	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	674902	18.661	678190	18.669	100	50 - 200	-0.008	+/-0.50	
Chrysene-d12	560609	23.684	566969	23.684	99	50 - 200	0.000	+/-0.50	
Perylene-d12	497276	26.517	522906	26.517	95	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0466	Instrument:	NT10
		Calibration:	GE00018

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (BLD0329-BS2)		(Solid)	Lab File ID: NT1005052308S.D				Analyzed: 05/05/23 15:18		
1,4-Dichlorobenzene-d4	163221	9.491	182700	9.492	89	50 - 200	-0.001	+/-0.50	
Naphthalene-d8	611943	11.988	662220	11.988	92	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	319820	15.617	335558	15.617	95	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	624505	18.668	678190	18.669	92	50 - 200	-0.001	+/-0.50	
Chrysene-d12	519561	23.691	566969	23.684	92	50 - 200	0.007	+/-0.50	
Perylene-d12	456900	26.525	522906	26.517	87	50 - 200	0.008	+/-0.50	
LCS Dup (BLD0329-BSD2)		(Solid)	Lab File ID: NT1005052309S.D				Analyzed: 05/05/23 15:57		
1,4-Dichlorobenzene-d4	173364	9.499	182700	9.492	95	50 - 200	0.007	+/-0.50	
Naphthalene-d8	634980	11.988	662220	11.988	96	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	331413	15.617	335558	15.617	99	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	647855	18.668	678190	18.669	96	50 - 200	-0.001	+/-0.50	
Chrysene-d12	539738	23.691	566969	23.684	95	50 - 200	0.007	+/-0.50	
Perylene-d12	462376	26.532	522906	26.517	88	50 - 200	0.015	+/-0.50	
Reference (BLD0329-SRM2)		(Solid)	Lab File ID: NT1005052310S.D				Analyzed: 05/05/23 16:36		
1,4-Dichlorobenzene-d4	191872	9.5	182700	9.492	105	50 - 200	0.008	+/-0.50	
Naphthalene-d8	706133	11.988	662220	11.988	107	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	358098	15.617	335558	15.617	107	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	736880	18.669	678190	18.669	109	50 - 200	0.000	+/-0.50	
Chrysene-d12	566007	23.692	566969	23.684	100	50 - 200	0.008	+/-0.50	
Perylene-d12	516238	26.525	522906	26.517	99	50 - 200	0.008	+/-0.50	
LDW23-SS1804 (23D0136-01)		(Solid)	Lab File ID: NT1005052311S.D				Analyzed: 05/05/23 17:15		
1,4-Dichlorobenzene-d4	184248	9.5	182700	9.492	101	50 - 200	0.008	+/-0.50	
Naphthalene-d8	688156	11.988	662220	11.988	104	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	342198	15.617	335558	15.617	102	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	726795	18.669	678190	18.669	107	50 - 200	0.000	+/-0.50	
Chrysene-d12	539399	23.699	566969	23.684	95	50 - 200	0.015	+/-0.50	
Perylene-d12	475433	26.548	522906	26.517	91	50 - 200	0.031	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0466	Instrument:	NT10
		Calibration:	GE00018

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1803 (23D0136-03)		(Solid)	Lab File ID: NT1005052312S.D				Analyzed: 05/05/23 17:54		
1,4-Dichlorobenzene-d4	184634	9.499	182700	9.492	101	50 - 200	0.007	+/-0.50	
Naphthalene-d8	697055	11.988	662220	11.988	105	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	343698	15.617	335558	15.617	102	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	678617	18.676	678190	18.669	100	50 - 200	0.007	+/-0.50	
Chrysene-d12	495685	23.699	566969	23.684	87	50 - 200	0.015	+/-0.50	
Perylene-d12	444419	26.548	522906	26.517	85	50 - 200	0.031	+/-0.50	
Matrix Spike (BLD0329-MS2)		(Solid)	Lab File ID: NT1005052313S.D				Analyzed: 05/05/23 18:32		
1,4-Dichlorobenzene-d4	207184	9.5	182700	9.492	113	50 - 200	0.008	+/-0.50	
Naphthalene-d8	771571	11.996	662220	11.988	117	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	379771	15.625	335558	15.617	113	50 - 200	0.008	+/-0.50	
Phenanthrene-d10	753456	18.677	678190	18.669	111	50 - 200	0.008	+/-0.50	
Chrysene-d12	592431	23.707	566969	23.684	104	50 - 200	0.023	+/-0.50	
Perylene-d12	491005	26.556	522906	26.517	94	50 - 200	0.039	+/-0.50	
Matrix Spike Dup (BLD0329-MSD2)		(Solid)	Lab File ID: NT1005052314S.D				Analyzed: 05/05/23 19:11		
1,4-Dichlorobenzene-d4	177137	9.499	182700	9.492	97	50 - 200	0.007	+/-0.50	
Naphthalene-d8	666320	11.996	662220	11.988	101	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	332083	15.617	335558	15.617	99	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	662010	18.676	678190	18.669	98	50 - 200	0.007	+/-0.50	
Chrysene-d12	495228	23.707	566969	23.684	87	50 - 200	0.023	+/-0.50	
Perylene-d12	426867	26.556	522906	26.517	82	50 - 200	0.039	+/-0.50	
Calibration Check (SLE0466-CCV1)		(Solid)	Lab File ID: NT1005052317S.D				Analyzed: 05/05/23 21:08		
1,4-Dichlorobenzene-d4	208433	9.499	182700	9.492	114	50 - 200	0.007	+/-0.50	
Naphthalene-d8	754909	11.996	662220	11.988	114	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	388803	15.617	335558	15.617	116	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	819155	18.676	678190	18.669	121	50 - 200	0.007	+/-0.50	
Chrysene-d12	554558	23.699	566969	23.684	98	50 - 200	0.015	+/-0.50	
Perylene-d12	517224	26.533	522906	26.517	99	50 - 200	0.016	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 17:15	17	40	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 17:54	17	40	
Matrix Spike BLD0329-MS2	04/05/23 16:05	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 18:32	17	40	
Matrix Spike Dup BLD0329-MSD2	04/05/23 16:05	04/06/23 10:30	04/18/23 11:16	12	365	05/05/23 19:11	17	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
1,4-Dichlorobenzene	0.6	5.0	ug/kg
1,2-Dichlorobenzene	0.7	5.0	ug/kg
Benzyl Alcohol	2.5	20.0	ug/kg
Benzoic acid	13.4	100	ug/kg
2,4-Dimethylphenol	2.2	20.0	ug/kg
1,2,4-Trichlorobenzene	2.7	5.0	ug/kg
N-Nitrosodiphenylamine	1.3	5.0	ug/kg
Pentachlorophenol	2.1	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bFH 502 1

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0214339

Purity: 98%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

H000691

Data File: \\target\share\chem2\fid4a.i\20230317.b\423C1703.D

Page 1

Date : 17-MAR-2023 10:46

Client ID:

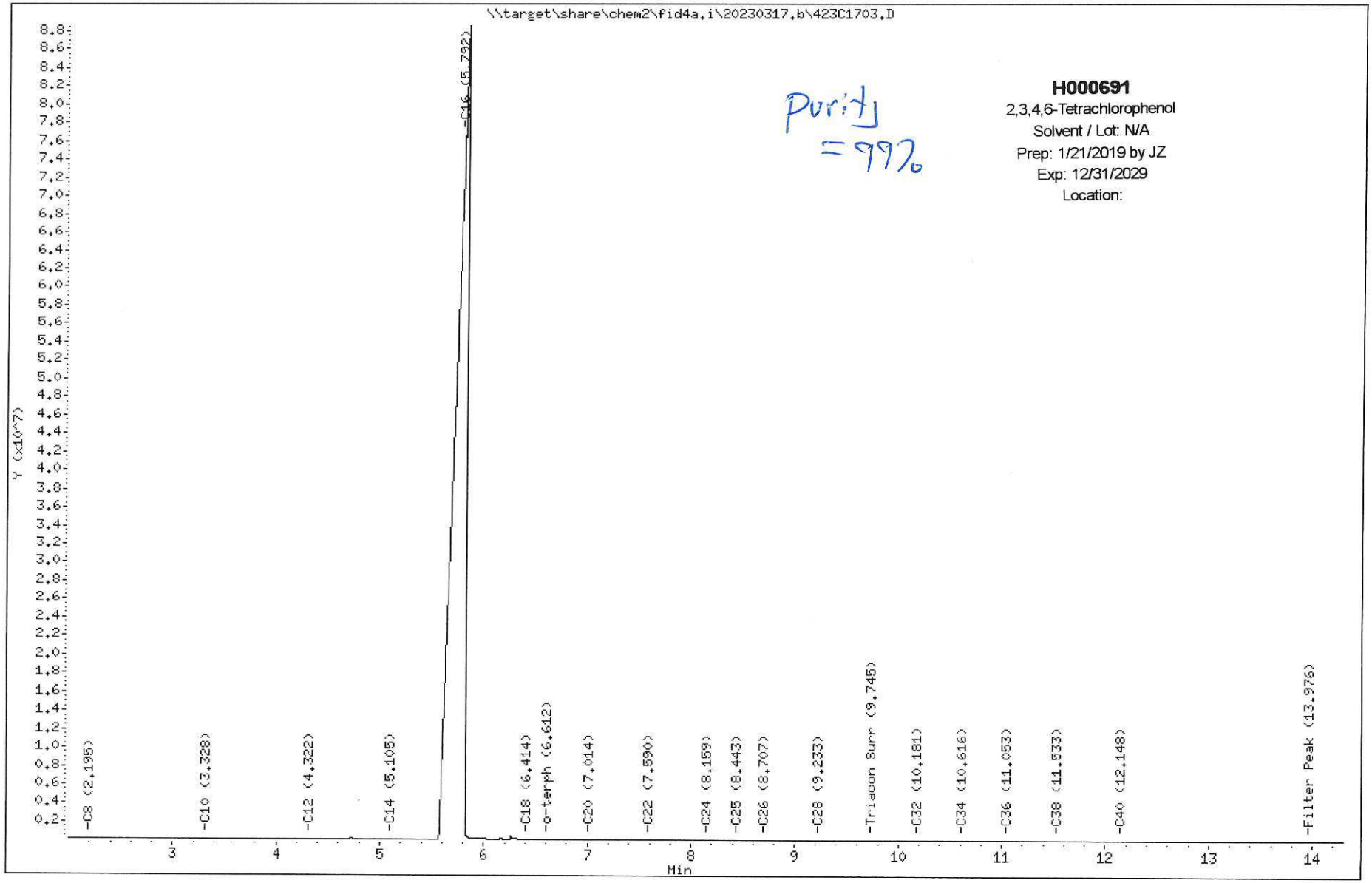
Instrument: fid4a.i

Sample Info: K007226

Operator: AA

Column phase: RTX-1

Column diameter: 0.25



Purity = 99%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

23D0136 CLPLIKE (Rev0) - Page 2070 of 4865

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
Lab Smp Id: K007226
Inj Date : 17-MAR-2023 10:46
Operator : AA Inst ID: fid4a.i
Smp Info : K007226
Misc Info :
Comment   :
Method   : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%
Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: tph.sub
Target Version: 4.14
Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.043	81395	55677	0.684	0.012	1 Toluene
2.074	68503	39991	0.584	0.010	
2.104	85451	37158	0.435	0.012	
2.146	59381	25207	0.424	0.008	
2.181	11414	22862	2.003	0.001	
2.195	34939	23199	0.664	0.005	2 C8
2.218	8679	21808	2.513	0.001	
2.224	21070	21832	1.036	0.003	
2.243	45086	20191	0.448	0.006	
2.286	3130	15677	5.009	0.000	
2.291	12615	15880	1.259	0.001	
2.313	20979	15888	0.757	0.003	
2.333	7621	15373	2.017	0.001	
2.348	31874	17112	0.537	0.004	
2.373	4619	13267	2.872	0.000	
2.380	12003	13446	1.120	0.001	
2.393	10327	13347	1.292	0.001	
2.408	9963	12697	1.274	0.001	
2.446	24366	11882	0.488	0.003	
2.498	24898	10214	0.410	0.003	
2.557	1592	6395	4.017	0.000	
2.570	4427	6384	1.442	0.000	
2.583	4275	6215	1.454	0.000	
2.595	1208	6068	5.024	0.000	
2.602	3076	6230	2.025	0.000	
2.607	1560	6270	4.019	0.000	
2.631	17195	8933	0.520	0.002	
2.654	17386	7637	0.439	0.002	
2.703	4531	5468	1.207	0.000	
2.717	9156	5741	0.627	0.001	
2.740	3955	5045	1.275	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.768	1029	4134	4.017	0.000	
2.771	830	4189	5.050	0.000	
2.778	1924	4438	2.307	0.000	
2.784	5498	4564	0.830	0.000	
2.846	25970	8400	0.323	0.003	
2.880	939	3165	3.370	0.000	
2.884	1885	3183	1.688	0.000	
2.901	4805	3504	0.729	0.000	
2.938	581	1990	3.423	0.000	
2.944	1450	2016	1.390	0.000	
2.955	449	1816	4.043	0.000	
2.967	1234	2009	1.629	0.000	
2.982	712	2087	2.931	0.000	
2.988	1000	2338	2.337	0.000	
3.001	3475	3541	1.019	0.000	
3.018	3528	3705	1.050	0.000	
3.033	983	2521	2.564	0.000	
3.038	1297	2686	2.070	0.000	
3.044	2547	2541	0.997	0.000	
3.069	389	1330	3.418	0.000	
3.078	728	1545	2.123	0.000	
3.085	1244	1637	1.316	0.000	
3.098	1115	1624	1.457	0.000	
3.108	926	1475	1.593	0.000	
3.119	239	1202	5.036	0.000	
3.125	540	1251	2.315	0.000	
3.133	409	1219	2.978	0.000	
3.144	2600	1886	0.725	0.000	
3.165	620	1604	2.588	0.000	
3.173	554	1647	2.972	0.000	
3.192	2423	2273	0.938	0.000	
3.197	582	2418	4.158	0.000	
3.204	1161	2723	2.346	0.000	
3.208	825	2777	3.364	0.000	
3.228	4472	3391	0.758	0.000	
3.246	1586	2676	1.688	0.000	
3.279	1194	2070	1.734	0.000	
3.293	854	1951	2.285	0.000	
3.298	595	2029	3.408	0.000	
3.315	2640	2597	0.984	0.000	
3.320	1015	2542	2.504	0.000	
3.328	1549	2593	1.674	0.000	3 C10
3.338	1314	2533	1.928	0.000	
3.350	523	2159	4.130	0.000	
3.358	1776	2105	1.185	0.000	
3.371	356	1797	5.043	0.000	
3.378	914	1880	2.057	0.000	
3.383	380	1927	5.068	0.000	
3.387	595	2023	3.399	0.000	
3.395	1390	2270	1.633	0.000	
3.405	1490	1994	1.338	0.000	
3.423	690	1601	2.321	0.000	
3.435	821	1554	1.894	0.000	
3.441	387	1583	4.087	0.000	
3.444	401	1625	4.051	0.000	
3.448	403	1636	4.060	0.000	
3.455	1216	1700	1.398	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.478	235	1185	5.047	0.000	
3.482	412	1229	2.986	0.000	
3.488	695	1177	1.694	0.000	
3.501	239	969	4.063	0.000	
3.509	914	1149	1.258	0.000	
3.520	1078	1069	0.992	0.000	
3.540	301	927	3.079	0.000	
3.556	406	849	2.089	0.000	
3.567	370	873	2.359	0.000	
3.572	178	939	5.270	0.000	
3.578	591	1171	1.981	0.000	
3.591	869	1353	1.556	0.000	
3.596	741	1352	1.826	0.000	
3.606	471	1401	2.976	0.000	
3.613	548	1411	2.577	0.000	
3.618	433	1521	3.511	0.000	
3.625	710	1635	2.303	0.000	
3.630	910	1667	1.832	0.000	
3.652	661	1562	2.362	0.000	
3.670	462	1214	2.627	0.000	
3.686	1036	1453	1.403	0.000	
3.690	829	1374	1.658	0.000	
3.702	531	1191	2.241	0.000	
3.712	452	1355	3.001	0.000	
3.716	820	1423	1.736	0.000	
3.736	2685	2093	0.780	0.000	
3.752	689	2030	2.946	0.000	
3.760	4109	2349	0.572	0.000	
3.805	3183	2036	0.640	0.000	
3.823	496	1686	3.401	0.000	
3.835	1641	2314	1.410	0.000	
3.859	9243	4616	0.499	0.001	
3.897	851	1745	2.051	0.000	
3.904	503	1721	3.419	0.000	
3.927	3866	3293	0.852	0.000	
3.941	5520	3558	0.645	0.000	
3.980	573	1715	2.991	0.000	
3.992	1027	1794	1.748	0.000	
3.995	1494	1860	1.245	0.000	
4.010	887	1639	1.847	0.000	
4.021	663	1724	2.602	0.000	
4.026	1380	1776	1.287	0.000	
4.045	306	1546	5.059	0.000	
4.053	1001	1758	1.757	0.000	
4.061	1137	1804	1.586	0.000	
4.072	779	1773	2.275	0.000	
4.080	989	1896	1.917	0.000	
4.087	561	1905	3.396	0.000	
4.098	1956	2156	1.103	0.000	
4.106	1168	2044	1.750	0.000	
4.127	1049	1627	1.551	0.000	
4.142	587	1545	2.633	0.000	
4.148	1155	1572	1.361	0.000	
4.173	3682	2398	0.651	0.000	
4.189	1023	1738	1.700	0.000	
4.204	549	1627	2.961	0.000	
4.213	628	1658	2.641	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	1039	1830	1.761	0.000	
4.227	447	1814	4.058	0.000	
4.248	2703	2638	0.976	0.000	
4.256	1387	2945	2.123	0.000	
4.260	743	2988	4.022	0.000	
4.265	912	3081	3.378	0.000	
4.268	779	3140	4.031	0.000	
4.275	1736	3217	1.853	0.000	
4.289	2688	3495	1.300	0.000	
4.295	3466	3448	0.995	0.000	
4.322	1054	2680	2.543	0.000	4 C12
4.330	1686	2627	1.558	0.000	
4.358	1066	1974	1.852	0.000	
4.378	434	1758	4.054	0.000	
4.384	1324	1879	1.419	0.000	
4.403	860	1608	1.869	0.000	
4.414	457	1567	3.431	0.000	
4.421	1117	1675	1.499	0.000	
4.433	910	1538	1.690	0.000	
4.439	865	1534	1.774	0.000	
4.449	764	1302	1.705	0.000	
4.471	433	1123	2.593	0.000	
4.476	734	1135	1.546	0.000	
4.490	385	1005	2.610	0.000	
4.498	555	1186	2.137	0.000	
4.502	695	1166	1.677	0.000	
4.518	587	949	1.618	0.000	
4.526	316	925	2.924	0.000	
4.533	560	989	1.765	0.000	
4.543	469	1001	2.135	0.000	
4.548	222	916	4.130	0.000	
4.553	188	980	5.207	0.000	
4.558	255	1038	4.076	0.000	
4.568	652	1157	1.775	0.000	
4.573	338	1151	3.409	0.000	
4.580	487	1283	2.636	0.000	
4.596	3801	1950	0.513	0.000	
4.631	531	1429	2.692	0.000	
4.663	4548	3737	0.822	0.000	
4.667	2815	3822	1.358	0.000	
4.679	2199	3760	1.710	0.000	
4.688	1068	3585	3.356	0.000	
4.694	2166	3742	1.727	0.000	
4.723	372603	172476	0.463	0.055	
4.894	47034	21828	0.464	0.006	
4.956	80510	28154	0.350	0.011	
4.999	54273	16950	0.312	0.008	
5.068	1137	5713	5.027	0.000	
5.072	8415	5792	0.688	0.001	
5.105	4203	4316	1.027	0.000	5 C14
5.146	660	2685	4.070	0.000	
5.153	2524	2649	1.050	0.000	
5.170	1076	2437	2.265	0.000	
5.174	2371	2438	1.028	0.000	
5.201	1013	2011	1.986	0.000	
5.210	2064	2332	1.130	0.000	
5.224	1083	2304	2.127	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.228	2027	2354	1.162	0.000	
5.276	4673	2682	0.574	0.000	
5.322	195	844	4.328	0.000	
5.331	977	1203	1.231	0.000	
5.356	490	993	2.027	0.000	
5.361	814	1044	1.283	0.000	
5.382	115	387	3.351	0.000	
5.399	619	960	1.551	0.000	
5.406	402	1035	2.576	0.000	
5.410	378	1122	2.968	0.000	
5.423	1663	1555	0.935	0.000	
5.452	5951	5020	0.844	0.000	
5.501	290	797	2.753	0.000	
5.523	2317	2472	1.067	0.000	
5.538	5946	6823	1.147	0.000	
5.792	501855376	76456669	0.152	74.449	6 C16
5.807	79757019	82319946	1.032	11.775	
5.823	77929961	88539160	1.136	11.505	
5.962	75333	84828	1.126	0.011	
5.986	474748	124326	0.262	0.070	
6.070	17103	57180	3.343	0.002	
6.074	120761	57565	0.477	0.017	
6.113	90233	47140	0.522	0.013	
6.165	407438	218439	0.536	0.060	
6.263	944101	374166	0.396	0.139	
6.414	114839	39498	0.344	0.016	7 C18
6.464	53190	31177	0.586	0.007	
6.523	31509	25870	0.821	0.004	
6.551	4785	23963	5.008	0.000	
6.559	51194	25409	0.496	0.007	
6.590	21354	21666	1.015	0.003	
6.612	35061	21127	0.603	0.005	$ 8 o-terph
6.638	17712	19934	1.125	0.002	
6.672	22159	19651	0.887	0.003	
6.683	26846	19268	0.718	0.003	
6.708	5413	18142	3.351	0.000	
6.713	24941	18247	0.732	0.003	
6.747	50657	18478	0.365	0.007	
6.795	23973	17444	0.728	0.003	
6.814	28457	17895	0.629	0.004	
6.837	10746	15445	1.437	0.001	
6.871	29974	21406	0.714	0.004	
6.874	4287	21471	5.009	0.000	
6.882	20520	21675	1.056	0.003	
6.944	32864	17445	0.531	0.004	
6.978	9138	15347	1.679	0.001	
7.014	4130	13830	3.348	0.000	9 C20
7.025	12567	14083	1.121	0.001	
7.038	4952	14274	2.882	0.000	
7.044	6508	14578	2.240	0.000	
7.050	25344	14736	0.581	0.003	
7.099	5531	12365	2.236	0.000	
7.108	16440	12371	0.752	0.002	
7.129	9415	11275	1.198	0.001	
7.175	3589	10327	2.878	0.000	
7.182	7285	10474	1.438	0.001	
7.212	11252	10002	0.889	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.227	5193	9506	1.830	0.000	
7.237	5172	9476	1.832	0.000	
7.247	4652	9357	2.011	0.000	
7.254	3258	9369	2.875	0.000	
7.259	7003	9455	1.350	0.001	
7.272	5540	9252	1.670	0.000	
7.283	4511	9087	2.014	0.000	
7.296	5828	9031	1.550	0.000	
7.308	4850	8866	1.828	0.000	
7.318	3111	9014	2.897	0.000	
7.324	3191	9168	2.873	0.000	
7.328	2775	9325	3.360	0.000	
7.339	6190	9713	1.569	0.000	
7.344	2920	9761	3.343	0.000	
7.350	17091	9874	0.578	0.002	
7.379	7217	8616	1.194	0.001	
7.395	5430	8408	1.548	0.000	
7.404	2492	8342	3.348	0.000	
7.409	1666	8354	5.014	0.000	
7.415	2955	8500	2.877	0.000	
7.423	3887	8782	2.259	0.000	
7.465	28160	14253	0.506	0.004	
7.471	6466	14499	2.242	0.000	
7.480	6649	15111	2.273	0.000	
7.484	26595	15197	0.571	0.003	
7.514	13964	13621	0.975	0.002	
7.539	8118	12614	1.554	0.001	
7.553	10540	12495	1.185	0.001	
7.584	2820	11307	4.010	0.000	
7.590	4522	11429	2.527	0.000	10 C22
7.620	16634	10435	0.627	0.002	
7.653	6793	9783	1.440	0.001	
7.663	8606	9666	1.123	0.001	
7.675	2827	9464	3.347	0.000	
7.683	9373	9620	1.026	0.001	
7.699	3657	9205	2.517	0.000	
7.708	5071	9290	1.832	0.000	
7.713	10483	9274	0.885	0.001	
7.735	10686	9257	0.866	0.001	
7.752	4732	8664	1.831	0.000	
7.765	5624	8765	1.558	0.000	
7.773	5614	8686	1.547	0.000	
7.784	3375	8506	2.520	0.000	
7.793	2118	8517	4.021	0.000	
7.799	10086	8544	0.847	0.001	
7.817	7761	8325	1.073	0.001	
7.833	2415	8088	3.350	0.000	
7.838	2838	8160	2.875	0.000	
7.844	3649	8173	2.240	0.000	
7.858	2009	8069	4.017	0.000	
7.864	4482	8197	1.829	0.000	
7.871	3688	8223	2.230	0.000	
7.879	4875	8269	1.696	0.000	
7.889	2009	8061	4.013	0.000	
7.897	4080	8308	2.036	0.000	
7.916	17828	10103	0.567	0.002	
7.935	4052	9086	2.242	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	2229	8948	4.015	0.000	
7.945	5765	8973	1.556	0.000	
7.954	6458	8765	1.357	0.000	
7.976	2099	8428	4.016	0.000	
7.984	10213	8807	0.862	0.001	
7.999	4897	8282	1.691	0.000	
8.013	8782	8112	0.924	0.001	
8.028	5860	7858	1.341	0.000	
8.040	3929	7871	2.003	0.000	
8.054	9161	8146	0.889	0.001	
8.067	2701	7766	2.876	0.000	
8.074	3069	7702	2.510	0.000	
8.081	2694	7742	2.874	0.000	
8.088	2705	7793	2.881	0.000	
8.095	5842	7832	1.341	0.000	
8.104	5419	7841	1.447	0.000	
8.119	5740	7735	1.348	0.000	
8.134	4986	7768	1.558	0.000	
8.141	5893	8009	1.359	0.000	
8.159	9098	8027	0.882	0.001	11 C24
8.174	3156	7971	2.526	0.000	
8.185	2376	7967	3.353	0.000	
8.190	4739	7937	1.675	0.000	
8.202	5181	8028	1.549	0.000	
8.212	1994	8027	4.025	0.000	
8.223	6137	8270	1.348	0.000	
8.236	6864	8171	1.190	0.001	
8.248	2383	7986	3.351	0.000	
8.253	2405	8059	3.351	0.000	
8.259	5294	8207	1.550	0.000	
8.268	2866	8235	2.874	0.000	
8.280	6583	8312	1.263	0.000	
8.289	4538	8296	1.828	0.000	
8.295	2060	8300	4.029	0.000	
8.300	2063	8291	4.020	0.000	
8.313	7062	8400	1.189	0.001	
8.318	1667	8375	5.023	0.000	
8.332	11362	9100	0.801	0.001	
8.343	4357	8741	2.006	0.000	
8.358	1267	8458	6.676	0.000	
8.363	2991	8621	2.882	0.000	
8.371	3980	8983	2.257	0.000	
8.379	6330	9083	1.435	0.000	
8.385	3111	8963	2.881	0.000	
8.393	6706	9050	1.349	0.000	
8.404	4903	8943	1.824	0.000	
8.417	8437	8972	1.063	0.001	
8.438	7166	9103	1.270	0.001	
8.443	3211	9227	2.873	0.000	12 C25
8.450	3688	9295	2.521	0.000	
8.455	2313	9276	4.010	0.000	
8.475	30054	13714	0.456	0.004	
8.504	5760	9733	1.690	0.000	
8.519	2799	9376	3.350	0.000	
8.529	4766	9710	2.037	0.000	
8.537	4875	9815	2.013	0.000	
8.543	8411	9973	1.186	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.555	2969	9916	3.340	0.000	
8.560	3974	9987	2.513	0.000	
8.568	2483	9997	4.026	0.000	
8.572	5007	10043	2.006	0.000	
8.591	14074	10725	0.762	0.002	
8.602	2648	10665	4.028	0.000	
8.606	2159	10862	5.032	0.000	
8.609	2183	10952	5.017	0.000	
8.633	7361	10561	1.435	0.001	
8.647	6774	10495	1.549	0.001	
8.658	2596	10420	4.014	0.000	
8.663	4723	10573	2.239	0.000	
8.669	3156	10589	3.355	0.000	
8.687	15405	11334	0.736	0.002	
8.699	6103	11158	1.828	0.000	
8.707	2223	11136	5.009	0.000	13 C26
8.730	28697	12536	0.437	0.004	
8.754	8658	11553	1.334	0.001	
8.763	2896	11612	4.010	0.000	
8.780	15029	12352	0.822	0.002	
8.788	1833	12243	6.680	0.000	
8.798	11854	12679	1.070	0.001	
8.806	1873	12509	6.677	0.000	
8.809	3133	12565	4.011	0.000	
8.813	2506	12550	5.008	0.000	
8.819	7588	12757	1.681	0.001	
8.829	4418	12679	2.870	0.000	
8.835	6988	12762	1.826	0.001	
8.848	13711	13258	0.967	0.002	
8.872	26625	13656	0.513	0.003	
8.894	4575	13127	2.869	0.000	
8.898	2631	13188	5.013	0.000	
8.902	5918	13262	2.241	0.000	
8.914	8577	13313	1.552	0.001	
8.922	4011	13433	3.349	0.000	
8.926	4724	13546	2.867	0.000	
8.933	6787	13651	2.011	0.001	
8.946	9614	13923	1.448	0.001	
8.951	6274	14004	2.232	0.000	
8.960	5592	14036	2.510	0.000	
8.966	3513	14090	4.011	0.000	
8.969	2829	14171	5.009	0.000	
8.973	4976	14233	2.860	0.000	
8.980	4289	14365	3.350	0.000	
8.996	27708	16441	0.593	0.004	
9.013	8129	14847	1.827	0.001	
9.025	8129	14840	1.826	0.001	
9.036	7503	15229	2.030	0.001	
9.040	4559	15225	3.340	0.000	
9.057	14920	16251	1.089	0.002	
9.067	9915	16831	1.698	0.001	
9.076	8535	17331	2.031	0.001	
9.081	5250	17596	3.352	0.000	
9.084	10558	17675	1.674	0.001	
9.095	4386	17601	4.013	0.000	
9.111	30564	19262	0.630	0.004	
9.128	8346	18722	2.243	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.139	15095	18986	1.258	0.002	
9.149	6655	19050	2.862	0.000	
9.158	23240	19719	0.848	0.003	
9.171	1903	19042	10.005	0.000	
9.175	4773	19156	4.013	0.000	
9.187	23630	19927	0.843	0.003	
9.199	4925	19763	4.013	0.000	
9.208	14115	20394	1.445	0.002	
9.219	12303	20691	1.682	0.001	
9.226	7266	20831	2.867	0.001	
9.233	15622	21000	1.344	0.002	14 C28
9.247	9280	20714	2.232	0.001	
9.262	45057	27849	0.618	0.006	
9.281	22651	23200	1.024	0.003	
9.304	13489	22820	1.692	0.001	
9.307	18038	22862	1.267	0.002	
9.328	8656	21778	2.516	0.001	
9.334	8635	21650	2.507	0.001	
9.343	16240	21738	1.339	0.002	
9.354	5409	21709	4.013	0.000	
9.367	16481	22234	1.349	0.002	
9.370	6683	22346	3.344	0.000	
9.382	14775	23166	1.568	0.002	
9.390	11679	23531	2.015	0.001	
9.394	12888	23584	1.830	0.001	
9.408	18752	23645	1.261	0.002	
9.416	4675	23396	5.004	0.000	
9.428	25138	24392	0.970	0.003	
9.438	20233	24095	1.191	0.002	
9.468	67429	26696	0.396	0.009	
9.496	8413	24122	2.867	0.001	
9.507	12049	24259	2.013	0.001	
9.527	36362	25771	0.709	0.005	
9.538	12891	25911	2.010	0.001	
9.543	6452	25853	4.007	0.000	
9.551	10420	26202	2.515	0.001	
9.557	29750	26593	0.894	0.004	
9.574	6252	25071	4.010	0.000	
9.593	29143	27655	0.949	0.004	
9.599	40783	27905	0.684	0.006	
9.620	13159	26364	2.004	0.001	
9.632	17259	26799	1.553	0.002	
9.640	13210	26592	2.013	0.001	
9.664	35362	28170	0.797	0.005	
9.672	27890	28134	1.009	0.004	
9.696	26737	28634	1.071	0.003	
9.711	53475	30848	0.577	0.007	
9.745	33266	29504	0.887	0.004	$ 15 Triacon Surr
9.752	7348	29501	4.015	0.001	
9.756	20542	29565	1.439	0.003	
9.768	7255	29059	4.005	0.001	
9.773	7275	29173	4.010	0.001	
9.785	31543	30611	0.970	0.004	
9.803	46804	32832	0.701	0.006	
9.821	10456	30060	2.875	0.001	
9.833	30772	31156	1.012	0.004	
9.860	77784	33514	0.431	0.011	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.881	12779	32069	2.510	0.001	
9.892	14531	32668	2.248	0.002	
9.896	8201	32902	4.012	0.001	
9.908	23357	33882	1.451	0.003	
9.912	27050	34095	1.260	0.003	
9.939	14585	32570	2.233	0.002	
9.951	23032	33095	1.437	0.003	
9.956	11596	33292	2.871	0.001	
9.966	16544	33271	2.011	0.002	
9.971	11660	33391	2.864	0.001	
9.975	10051	33617	3.345	0.001	
9.983	15209	33983	2.234	0.002	
9.988	15177	33830	2.229	0.002	
9.996	10128	33907	3.348	0.001	
10.018	43348	35629	0.822	0.006	
10.021	7133	35693	5.004	0.001	
10.025	8960	35988	4.016	0.001	
10.034	42064	36944	0.878	0.006	
10.063	65447	38699	0.591	0.009	
10.077	7375	36906	5.004	0.001	
10.083	16743	37428	2.235	0.002	
10.095	34467	38665	1.122	0.005	
10.118	90921	40621	0.447	0.013	
10.151	37738	38047	1.008	0.005	
10.158	11383	38037	3.342	0.001	
10.168	36074	38274	1.061	0.005	
10.181	15072	37809	2.509	0.002	16 C32
10.185	5655	37746	6.675	0.000	
10.198	43905	38471	0.876	0.006	
10.208	24771	38177	1.541	0.003	
10.218	19031	38113	2.003	0.002	
10.228	13353	38279	2.867	0.001	
10.237	21225	38826	1.829	0.003	
10.243	30946	38929	1.258	0.004	
10.266	43064	39733	0.923	0.006	
10.275	11912	39784	3.340	0.001	
10.278	19932	39886	2.001	0.002	
10.293	46366	40725	0.878	0.006	
10.318	46465	41024	0.883	0.006	
10.328	24720	41353	1.673	0.003	
10.334	10308	41278	4.005	0.001	
10.343	29100	41866	1.439	0.004	
10.354	22822	41695	1.827	0.003	
10.360	16568	41490	2.504	0.002	
10.376	31388	42321	1.348	0.004	
10.384	36478	43119	1.182	0.005	
10.393	21427	43144	2.014	0.003	
10.416	82339	44731	0.543	0.012	
10.434	23173	42257	1.824	0.003	
10.455	42801	43684	1.021	0.006	
10.459	19648	44004	2.240	0.002	
10.469	19632	43883	2.235	0.002	
10.492	56113	45807	0.816	0.008	
10.497	20626	45915	2.226	0.003	
10.503	27439	45837	1.671	0.004	
10.513	31833	45842	1.440	0.004	
10.523	6773	45190	6.672	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.529	22697	45513	2.005	0.003	
10.543	39087	46432	1.188	0.005	
10.552	16284	46719	2.869	0.002	
10.558	18796	47158	2.509	0.002	
10.576	69878	48769	0.698	0.010	
10.586	12085	48384	4.004	0.001	
10.592	21757	48469	2.228	0.003	
10.609	46960	50482	1.075	0.006	
10.616	40486	50812	1.255	0.005	17 C34
10.628	52392	50284	0.960	0.007	
10.665	99744	52644	0.528	0.014	
10.680	20832	52264	2.509	0.003	
10.699	126137	55939	0.443	0.018	
10.723	18258	52316	2.865	0.002	
10.733	65550	52928	0.807	0.009	
10.751	49102	51903	1.057	0.007	
10.765	10288	51490	5.005	0.001	
10.777	73220	52877	0.722	0.010	
10.791	15621	52150	3.338	0.002	
10.799	46819	52190	1.115	0.006	
10.817	52000	52328	1.006	0.007	
10.828	13014	52167	4.008	0.001	
10.833	18275	52280	2.861	0.002	
10.838	67284	52271	0.777	0.009	
10.860	15395	51401	3.339	0.002	
10.867	15366	51252	3.335	0.002	
10.874	25712	51608	2.007	0.003	
10.885	59363	52064	0.877	0.008	
10.901	33199	51247	1.544	0.004	
10.911	35859	51446	1.435	0.005	
10.925	15150	50526	3.335	0.002	
10.936	27761	50508	1.819	0.004	
10.954	40634	51235	1.261	0.005	
10.958	17973	51428	2.861	0.002	
10.982	101216	54997	0.543	0.014	
10.999	80380	54264	0.675	0.011	
11.022	15822	52869	3.342	0.002	
11.029	23878	53171	2.227	0.003	
11.032	23908	53219	2.226	0.003	
11.044	39793	53228	1.338	0.005	
11.053	13218	52959	4.007	0.001	19 C36
11.057	26491	53088	2.004	0.003	
11.069	47933	53454	1.115	0.007	
11.079	78088	52997	0.679	0.011	
11.132	4853	48537	10.002	0.000	
11.138	21933	48845	2.227	0.003	
11.148	46678	49317	1.057	0.006	
11.158	12248	49060	4.006	0.001	
11.164	14711	49102	3.338	0.002	
11.179	64473	49939	0.775	0.009	
11.192	19751	49439	2.503	0.002	
11.197	14848	49541	3.337	0.002	
11.202	17336	49566	2.859	0.002	
11.206	12400	49639	4.003	0.001	
11.212	56808	49881	0.878	0.008	
11.230	26830	48794	1.819	0.003	
11.263	19014	47590	2.503	0.002	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
11.267	11927	47790	4.007	0.001	
11.285	66432	50042	0.753	0.009	
11.308	17214	49235	2.860	0.002	
11.312	19684	49285	2.504	0.002	
11.322	19740	49570	2.511	0.002	
11.331	27467	50208	1.828	0.004	
11.334	12565	50301	4.003	0.001	
11.338	17617	50367	2.859	0.002	
11.356	50450	50688	1.005	0.007	
11.383	31641	48774	1.541	0.004	
11.392	14562	48589	3.337	0.002	
11.398	14566	48593	3.336	0.002	
11.405	21947	48858	2.226	0.003	
11.418	36961	49602	1.342	0.005	
11.428	52174	49838	0.955	0.007	
11.438	46900	49605	1.058	0.006	
11.456	66003	49218	0.746	0.009	
11.481	84312	48818	0.579	0.012	
11.518	39837	46996	1.180	0.005	
11.533	55836	46822	0.839	0.008	20 C38
11.560	30101	46465	1.544	0.004	
11.568	20916	46512	2.224	0.003	
11.573	11637	46596	4.004	0.001	
11.579	23274	46598	2.002	0.003	
11.586	13953	46531	3.335	0.002	
11.591	9318	46631	5.004	0.001	
11.623	97892	48831	0.499	0.014	
11.631	17107	48984	2.863	0.002	
11.638	22090	49260	2.230	0.003	
11.642	32050	49351	1.540	0.004	
11.669	95446	50981	0.534	0.014	
11.685	95822	49865	0.520	0.014	
11.788	8918	44609	5.002	0.001	
11.791	35704	44768	1.254	0.005	
11.804	11082	44350	4.002	0.001	
11.813	22172	44403	2.003	0.003	
11.823	19993	44543	2.228	0.002	
11.829	13395	44754	3.341	0.001	
11.837	20184	44981	2.228	0.002	
11.852	26933	44942	1.669	0.003	
11.866	36041	45224	1.255	0.005	
11.877	15835	45355	2.864	0.002	
11.883	18222	45726	2.509	0.002	
11.889	15985	45741	2.861	0.002	
11.896	20679	46117	2.230	0.003	
11.905	23259	46896	2.016	0.003	
11.929	70146	49826	0.710	0.010	
11.936	52288	50085	0.958	0.007	
11.951	14787	49369	3.339	0.002	
11.957	17313	49595	2.865	0.002	
11.961	32199	49647	1.542	0.004	
11.971	19578	49063	2.506	0.002	
11.980	34244	49065	1.433	0.005	
12.019	96987	51133	0.527	0.014	
12.025	48685	51499	1.058	0.007	
12.053	38386	51386	1.339	0.005	
12.062	38575	51549	1.336	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.070	17923	51300	2.862	0.002	
12.078	45780	51141	1.117	0.006	
12.105	31495	48817	1.550	0.004	
12.118	85510	48295	0.565	0.012	
12.148	55474	46657	0.841	0.008	21 C40
12.172	34299	45899	1.338	0.005	
12.181	18286	45754	2.502	0.002	
12.188	20565	45727	2.223	0.003	
12.198	29701	45787	1.542	0.004	
12.212	11377	45530	4.002	0.001	
12.218	29576	45566	1.541	0.004	
12.237	41054	45750	1.114	0.006	
12.243	13695	45701	3.337	0.002	
12.253	27528	46122	1.675	0.004	
12.260	16149	46201	2.861	0.002	
12.272	32473	46571	1.434	0.004	
12.347	231342	54259	0.235	0.034	
12.355	96470	54322	0.563	0.014	
12.383	13155	52687	4.005	0.001	
12.389	52817	52930	1.002	0.007	
12.434	117936	55204	0.468	0.017	
12.440	19323	55283	2.861	0.002	
12.448	22049	55156	2.502	0.003	
12.460	127044	56114	0.442	0.018	
12.500	63536	55700	0.877	0.009	
12.519	44746	56237	1.257	0.006	
12.523	16928	56556	3.341	0.002	
12.528	14154	56666	4.003	0.002	
12.532	14154	56644	4.002	0.002	
12.538	25607	57089	2.229	0.003	
12.543	31284	57010	1.822	0.004	
12.560	76588	57084	0.745	0.011	
12.574	22463	56167	2.500	0.003	
12.583	192414	56305	0.293	0.028	
12.668	201456	54098	0.269	0.029	
12.722	63529	49368	0.777	0.009	
12.744	14574	48683	3.340	0.002	
12.757	68233	49046	0.719	0.010	
12.777	29106	48653	1.672	0.004	
12.802	69072	49884	0.722	0.010	
12.805	19947	49915	2.502	0.002	
12.813	12457	49907	4.006	0.001	
12.826	42860	50672	1.182	0.006	
12.830	15192	50711	3.338	0.002	
12.835	63121	50727	0.804	0.009	
12.856	30109	50299	1.671	0.004	
12.871	12459	49875	4.003	0.001	
12.876	24950	49913	2.001	0.003	
12.883	12458	49860	4.002	0.001	
12.892	24999	50091	2.004	0.003	
12.904	37682	50442	1.339	0.005	
12.918	60965	51059	0.838	0.009	
12.929	15268	50972	3.338	0.002	
12.950	101236	52476	0.518	0.014	
12.991	32619	50285	1.542	0.004	
13.030	23826	47690	2.002	0.003	
13.047	49429	47410	0.959	0.007	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.072	11668	46709	4.003	0.001	
13.077	14056	46964	3.341	0.002	
13.083	21201	47214	2.227	0.003	
13.092	45034	47490	1.055	0.006	
13.103	33139	47401	1.430	0.004	
13.119	58622	47300	0.807	0.008	
13.136	61979	46406	0.749	0.009	
13.163	36232	45399	1.253	0.005	
13.172	13552	45219	3.337	0.002	
13.178	13550	45211	3.337	0.002	
13.183	13581	45318	3.337	0.002	
13.188	15867	45365	2.859	0.002	
13.193	11350	45433	4.003	0.001	
13.206	54879	45909	0.837	0.008	
13.233	74220	46899	0.632	0.010	
13.246	18724	46923	2.506	0.002	
13.250	14089	47028	3.338	0.002	
13.254	9392	46999	5.004	0.001	
13.261	35241	47103	1.337	0.005	
13.270	21093	46884	2.223	0.003	
13.278	16404	46889	2.858	0.002	
13.284	28108	46937	1.670	0.004	
13.309	27777	46575	1.677	0.004	
13.313	11643	46617	4.004	0.001	
13.323	30391	46938	1.544	0.004	
13.337	49696	47554	0.957	0.007	
13.345	11906	47686	4.005	0.001	
13.352	21499	47921	2.229	0.003	
13.358	14416	48133	3.339	0.002	
13.366	24163	48487	2.007	0.003	
13.391	108474	49842	0.459	0.016	
13.411	39818	49922	1.254	0.005	
13.421	140245	49882	0.356	0.020	
13.468	75433	46221	0.613	0.011	
13.519	59701	44435	0.744	0.008	
13.538	26345	44021	1.671	0.003	
13.553	17475	43727	2.502	0.002	
13.559	19699	43828	2.225	0.002	
13.566	15324	43832	2.860	0.002	
13.574	28519	43956	1.541	0.004	
13.585	21950	43943	2.002	0.003	
13.595	26497	44341	1.673	0.003	
13.603	22230	44574	2.005	0.003	
13.608	11135	44585	4.004	0.001	
13.633	100703	46371	0.460	0.014	
13.650	25255	45974	1.820	0.003	
13.663	20511	45675	2.227	0.003	
13.670	15945	45584	2.859	0.002	
13.677	40973	45642	1.114	0.006	
13.688	4544	45448	10.002	0.000	
13.693	29520	45508	1.542	0.004	
13.718	24720	44995	1.820	0.003	
13.727	11216	44890	4.002	0.001	
13.735	29185	45025	1.543	0.004	
13.752	17874	44782	2.505	0.002	
13.767	35874	45020	1.255	0.005	
13.775	36036	45104	1.252	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.785	11226	44939	4.003	0.001	
13.790	47016	44953	0.956	0.006	
13.813	11118	44516	4.004	0.001	
13.818	37641	44507	1.182	0.005	
13.832	15424	44192	2.865	0.002	
13.838	17564	43967	2.503	0.002	
13.844	26339	43892	1.666	0.003	
13.855	30567	43821	1.434	0.004	
13.865	23854	43526	1.825	0.003	
13.882	28266	43639	1.544	0.004	
13.886	30418	43629	1.434	0.004	
13.901	34702	43472	1.253	0.005	
13.920	48162	44005	0.914	0.007	
13.928	17577	43956	2.501	0.002	
13.941	15410	44084	2.861	0.002	
13.946	11045	44251	4.006	0.001	
13.949	24369	44341	1.820	0.003	
13.959	22103	44264	2.003	0.003	
13.967	22088	44195	2.001	0.003	
13.976	33207	44336	1.335	0.004	18 Filter Peak
13.998	24195	44018	1.819	0.003	
14.007	15335	43888	2.862	0.002	
14.014	17519	43863	2.504	0.002	
14.019	54335	43870	0.807	0.008	
14.046	10722	42915	4.003	0.001	
14.052	19305	42955	2.225	0.002	
14.058	8568	42864	5.003	0.001	
14.067	38739	43159	1.114	0.005	
14.077	15012	42931	2.860	0.002	
14.083	25753	42977	1.669	0.003	
14.102	25682	42913	1.671	0.003	
14.108	19267	42865	2.225	0.002	
14.116	12834	42815	3.336	0.001	
14.126	25874	43369	1.676	0.003	
14.133	56339	43595	0.774	0.008	
14.161	32503	43582	1.341	0.004	
14.165	10909	43696	4.006	0.001	
14.170	15313	43822	2.862	0.002	
14.175	10960	43911	4.007	0.001	
14.178	13176	43945	3.335	0.001	
14.183	19785	43976	2.223	0.002	
14.191	8796	44018	5.005	0.001	
14.197	17636	44177	2.505	0.002	
14.208	28815	44459	1.543	0.004	
14.219	8873	44379	5.002	0.001	
14.223	13318	44445	3.337	0.001	
14.229	28860	44456	1.540	0.004	
14.247	15436	44194	2.863	0.002	
14.260	37147	43758	1.178	0.005	
14.274	45685	43705	0.957	0.006	
	677340272	268782821		100.000	

Total unknown % area = 25.478

Supelco®

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

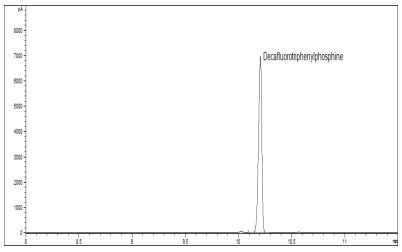
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

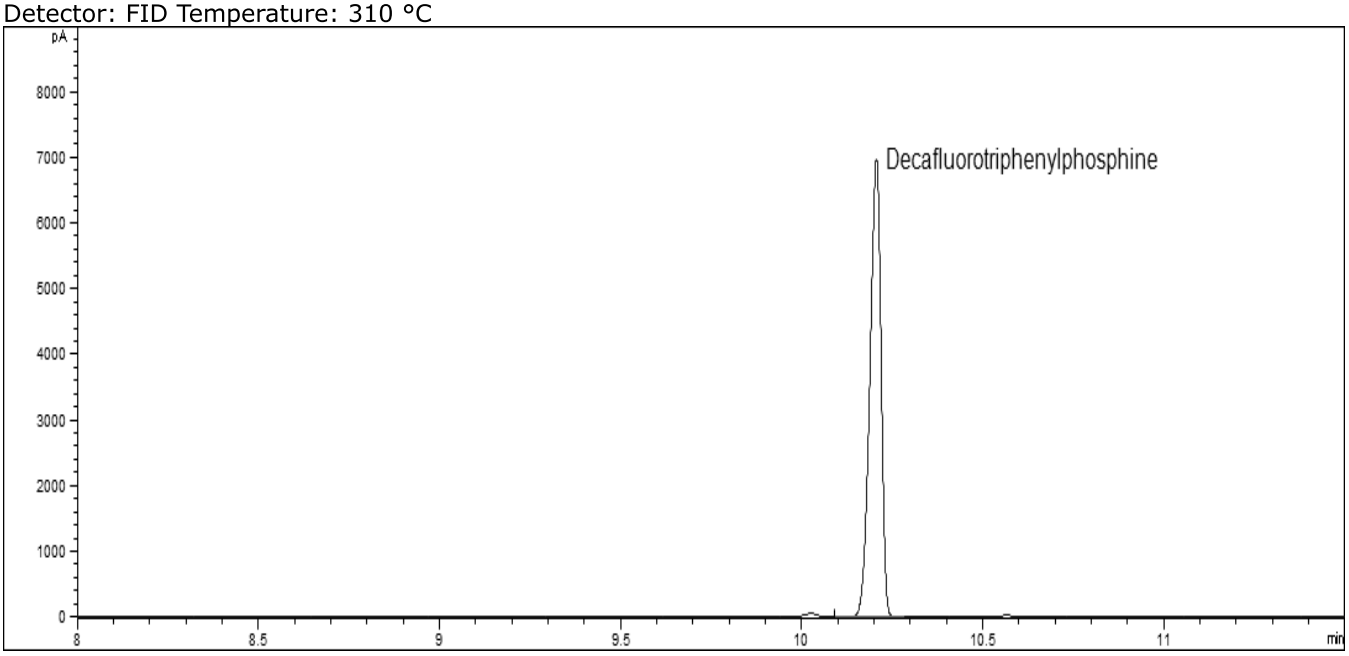


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	January 05, 2021
Version	0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBJ2508)	1,50		+/- 53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	1,506.0	µg/mL	+/- 8.9452 +/- 43.9882 +/- 53.3632	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 **Purity** 99%	(Lot PR-30568)	1,510.0	µg/mL	+/- 8.9689 +/- 44.1050 +/- 53.5049	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 **Purity** 99%	(Lot PR-32542/022621DB1	1,004.0	µg/mL	+/- 5.9635 +/- 29.3255 +/- 35.5754	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940A)	1,008.0	µg/mL	+/- 5.9872 +/- 29.4423 +/- 35.7172	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 **Purity** 99%	(Lot 19169)	1,006.0	µg/mL	+/- 5.9753 +/- 29.3839 +/- 35.6463	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	1,506.0	µg/mL	+/- 8.9452 +/- 43.9882 +/- 53.3632	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

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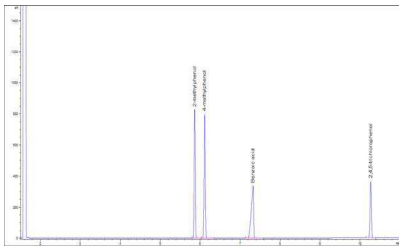
www.sigmaaldrich.com

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

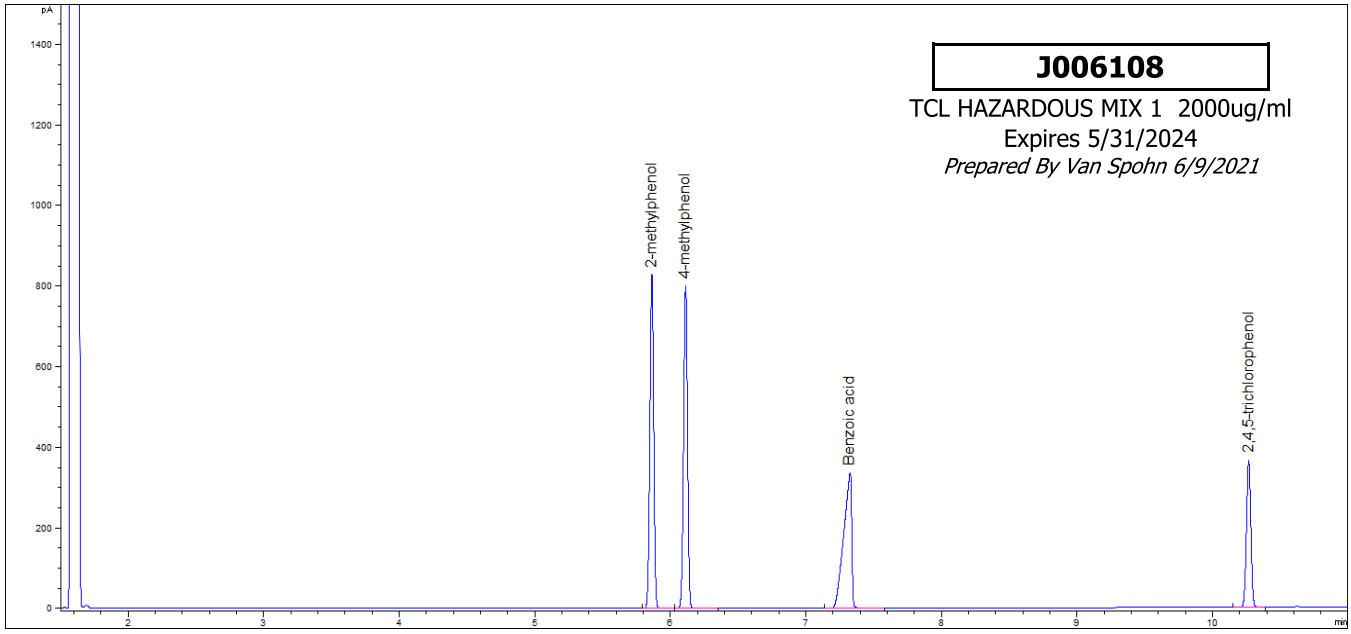
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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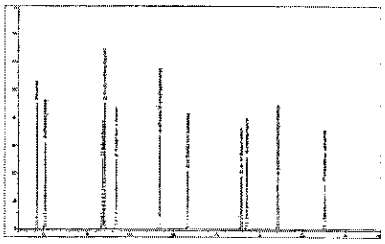
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



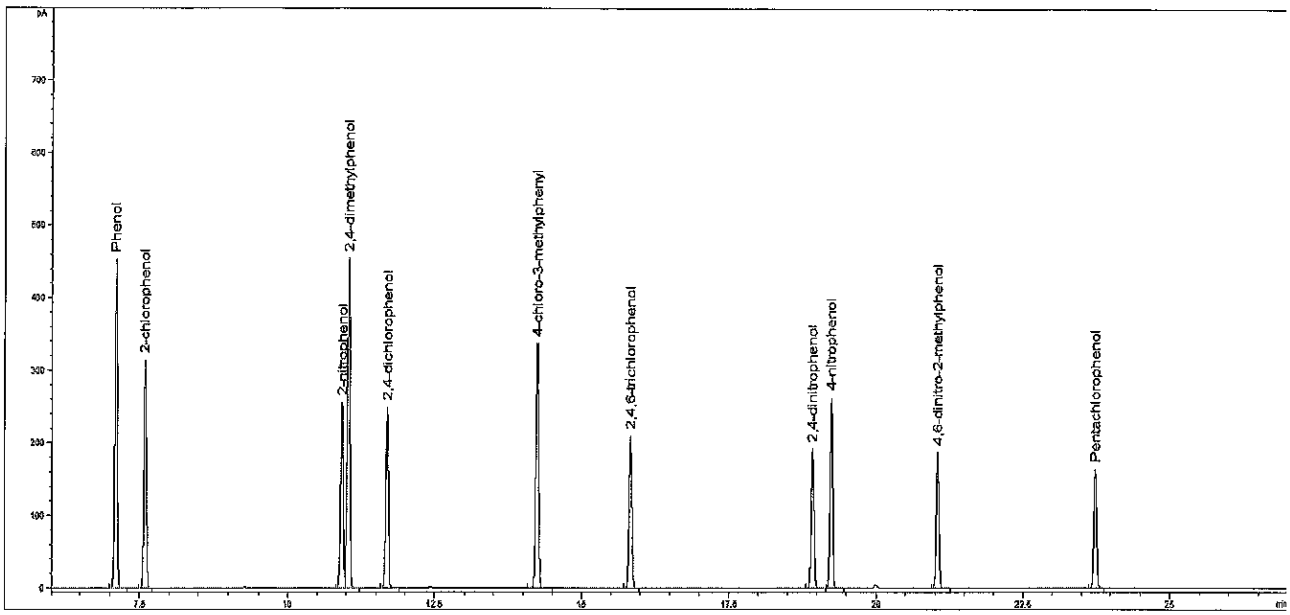
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

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K007194
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO187400
Prep: 8/5/2022 by VS
Exp: 4/30/2026
Location:

Certificate of Analysis

IAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0187400

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ3299) **Purity** 99%	1,508.0 µg/mL	+/- 8.9571 µg/mL +/- 44.0466 µg/mL +/- 53.4340 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot SL210831) **Purity** 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL +/- 44.1050 µg/mL +/- 53.5049 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32597) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

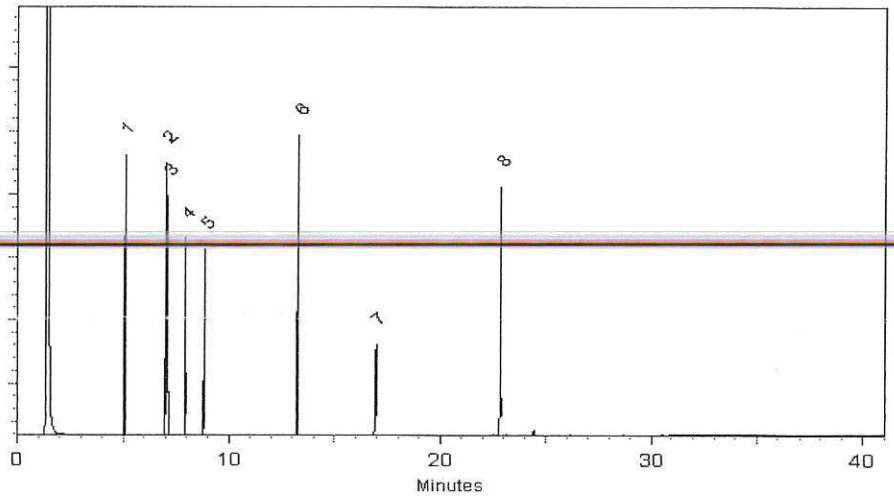
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 17-Jul-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

Aaron Dukes, Certified Reference Materials Manager

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Supelco®

www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at:* www.sigma-aldrich.com *for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	800	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	800	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	801	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1799	µg/mL	66.9	STBJ5751
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	800	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	800	µg/mL	100.0	BCCD4461
4-NITROPHENOL CAS# 100-02-7	800	µg/mL	100.0	MKCN1089
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1800	µg/mL	100.0	BCBX5762
PENTACHLOROPHENOL CAS# 87-86-5	800	µg/mL	99.0	23614-01
BENZOIC ACID CAS# 65-85-0	1800	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
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Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2750.01	03 JUN 2022	Original Release Date

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Certified Reference Material

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Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18939
Certification Date: September 7, 2022
Expiration Date: August 31, 2032

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 3.812%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.419%

L001288
Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC

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Reference Material Producer
Certicate No. 2427.02

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Certified Reference Material

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Catalog No.: AL0-101443
Description: Aniline
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18741
Certification Date: July 21, 2022
Expiration Date: July 31, 2030

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 1.719%

L001290
Anline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC

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Certicate No. 2427.02

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Certified Reference Material

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Aaron Dukes, Certified Reference Materials Manager

L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Component	CAS #	µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 1.643%
Acenaphthylene	208-96-8	1000	± 1.317%
Anthracene	120-12-7	1000	± 2.136%
Azobenzene	103-33-3	1000	± 1.630%
Benzo(a)anthracene	56-55-3	1000	± 2.372%
Benzo(a)pyrene	50-32-8	1000	± 3.028%
Benzo(b)fluoranthene	205-99-2	1000	± 2.377%
Benzo(k)fluoranthene	207-08-9	1000	± 2.286%
Benzo(g,h,i)perylene	191-24-2	1000	± 2.561%
Benzyl alcohol	100-51-6	1000	± 1.803%
Benzyl butyl phthalate	85-68-7	1000	± 1.855%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 1.626%
bis(2-Chloroethyl) ether	111-44-4	1000	± 1.776%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 2.406%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 2.415%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 2.350%
4-Bromophenyl phenyl ether	101-55-3	1000	± 1.708%
Carbazole	86-74-8	1000	± 1.844%

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Certified Reference Material

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 2.831%
4-Chloro-3-methylphenol	59-50-7	1000	± 1.571%
2-Chloronaphthalene	91-58-7	1000	± 2.022%
2-Chlorophenol	95-57-8	1000	± 2.001%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 1.634%
Chrysene	218-01-9	1000	± 2.358%
Dibenz(a,h)anthracene	53-70-3	1000	± 2.452%
Dibenzofuran	132-64-9	1000	± 0.310%
Di-n-butyl phthalate	84-74-2	1000	± 2.347%
1,2-Dichlorobenzene	95-50-1	1000	± 1.803%
1,3-Dichlorobenzene	541-73-1	1000	± 1.808%
1,4-Dichlorobenzene	106-46-7	1000	± 1.503%
2,4-Dichlorophenol	120-83-2	1000	± 1.393%
Diethyl phthalate	84-66-2	1000	± 1.870%
2,4-Dimethylphenol	105-67-9	1000	± 2.495%
Dimethyl phthalate	131-11-3	1000	± 2.113%
1,2-Dinitrobenzene	528-29-0	1000	± 0.240%
1,3-Dinitrobenzene	99-65-0	1000	± 1.221%
1,4-Dinitrobenzene	100-25-4	1000	± 0.246%
2,4-Dinitrophenol	51-28-5	1000	± 0.519%
2,4-Dinitrotoluene	121-14-2	1000	± 2.242%

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18811
Description: 8270 Calibration Standard
Certification Date: August 9, 2022
Storage: -18 °C
Expiration Date: November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 2.154%
Di-n-octyl phthalate	117-84-0	1000	± 2.670%
Fluoranthene	206-44-0	1000	± 2.103%
Fluorene	86-73-7	1000	± 0.890%
Hexachlorobenzene	118-74-1	1000	± 1.210%
Hexachlorobutadiene	87-68-3	1000	± 1.304%
Hexachlorocyclopentadiene	77-47-4	1000	± 1.510%
Hexachloroethane	67-72-1	1000	± 3.281%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 1.921%
Isophorone	78-59-1	1000	± 2.022%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 1.661%
1-Methylnaphthalene	90-12-0	1000	± 1.929%
2-Methylnaphthalene	91-57-6	1000	± 2.220%
2-Methylphenol	95-48-7	1000	± 2.168%
3-Methylphenol	108-39-4	500	± 1.025%
4-Methylphenol	106-44-5	500	± 1.064%
Naphthalene	91-20-3	1000	± 1.199%
2-Nitroaniline	88-74-4	1000	± 1.874%
3-Nitroaniline	99-09-2	1000	± 2.146%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 1.704%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 2.051%
4-Nitrophenol	100-02-7	1000	± 1.413%
N-Nitrosodimethylamine	62-75-9	1000	± 0.545%
N-Nitrosodiphenylamine	86-30-6	1000	± 1.669%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.712%
Pentachlorophenol	87-86-5	1000	± 2.454%
Phenanthrene	85-01-8	1000	± 2.072%
Phenol	108-95-2	1000	± 2.140%
Pyrene	129-00-0	1000	± 1.869%
Pyridine	110-86-1	1000	± 0.545%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 2.552%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 2.220%
1,2,4-Trichlorobenzene	120-82-1	1000	± 1.632%
2,4,5-Trichlorophenol	95-95-4	1000	± 1.596%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.481%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1804

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23D0136-01 A	File ID:	23050218.D
Sampled:	04/05/23 11:45	Prepared:	04/18/23 11:06	Analyzed:	05/02/23 18:39
% Solids:	49.34	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.38 g Wet / 2.5 mL
Batch:	BLD0325	Sequence:	SLE0106	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9856*	*5.22*	*65.4*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9856*	*5.99*	*75.0*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9856*	*4.39*	*54.9*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9856*	*4.51*	*56.5*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050218.D
Data file 2: /20230502.b/B20230502.b/23050218.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23D0136-01
Client ID:
Injection Date: 02-MAY-2023 18:39
Report Date: 05/05/2023 15:14
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2			
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD		Compound/Flag
----			4.765	0.003	12913	0.00	0.90	---		alpha-BHC
----			5.246	0.016	11563	0.00	2.03	---		beta-BHC
----			5.555	-0.022	3421	0.00	0.27	---		delta-BHC
----			5.145	-0.007	8657	0.00	0.69	---		gamma-BHC (Lindane)
----			5.673	0.002	27609	0.00	2.50	---		Heptachlor
----			----			0.00	0.00	---		Aldrin
----			6.751	0.022	4156	0.00	0.41	---		Heptachlor epoxide b
----			7.152	-0.020	6495	0.00	0.76	---		Endosulfan I
----			7.439	-0.027	37259	0.00	3.95	---		Dieldrin
----			7.246	-0.011	39309	0.00	4.38	---		4,4'-DDE
----			7.811	0.021	128609	0.00	20.48	---		Endrin
----			8.002	0.001	56771	0.00	9.57	---		Endosulfan II
----			7.852	-0.010	39059	0.00	6.80	---		4,4'-DDD
----			8.626	0.028	39497	0.00	7.23	---		Endosulfan sulfate
----			8.180	-0.001	220261	0.00	38.03	---		4,4'-DDT
----			8.849	0.027	11209	0.00	4.51	---		Methoxychlor
----			9.131	0.012	86632	0.00	14.52	---		Endrin ketone
----			8.317	-0.014	40733	0.00	9.50	---		Endrin aldehyde
----			6.933	-0.006	13386	0.00	1.38	---		trans-Chlordane
----			7.088	-0.012	11590	0.00	1.22	---		cis-Chlordane
----			2.475	0.022	1027	0.00	0.08	---		Hexachlorobutadiene
4.167	-0.008	13572	----			1.00	0.00	---		Hexachlorobenzene
3.812	-0.007	214770	4.127	-0.009	209806	21.97	22.60	2.9		Tetrachloro-m-xylene M
9.360	-0.006	126240	10.298	-0.008	113035	26.17	30.01	13.7		Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

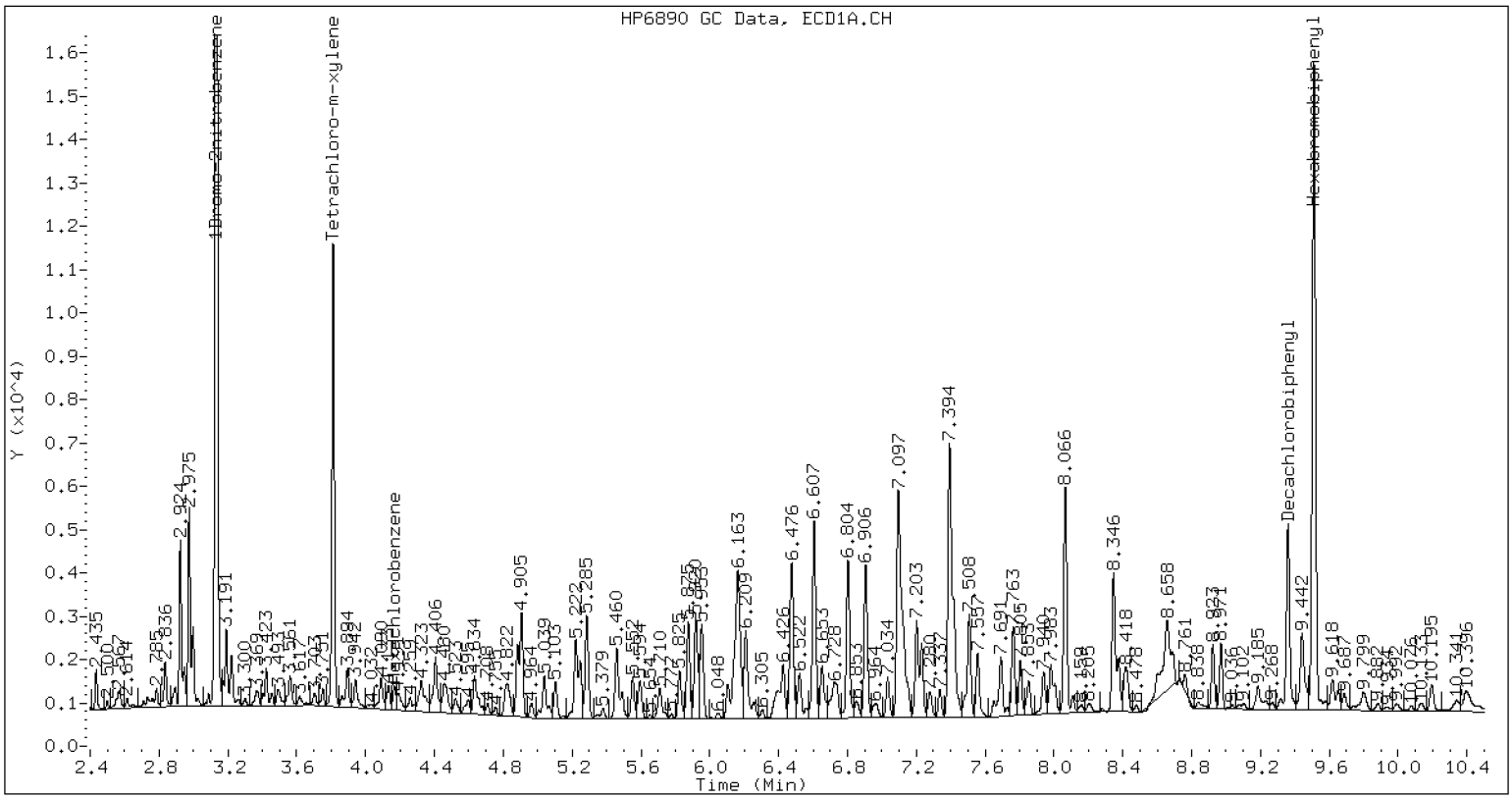
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	698789	-25.1
Hexabromobiphenyl	745426	409047	-45.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	675008	-45.9
Hexabromobiphenyl	754634	312046	-58.6 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230502.b/23050218.D 23D0136-01 STX-CLP 02-MAY-2023 18:39 1ul



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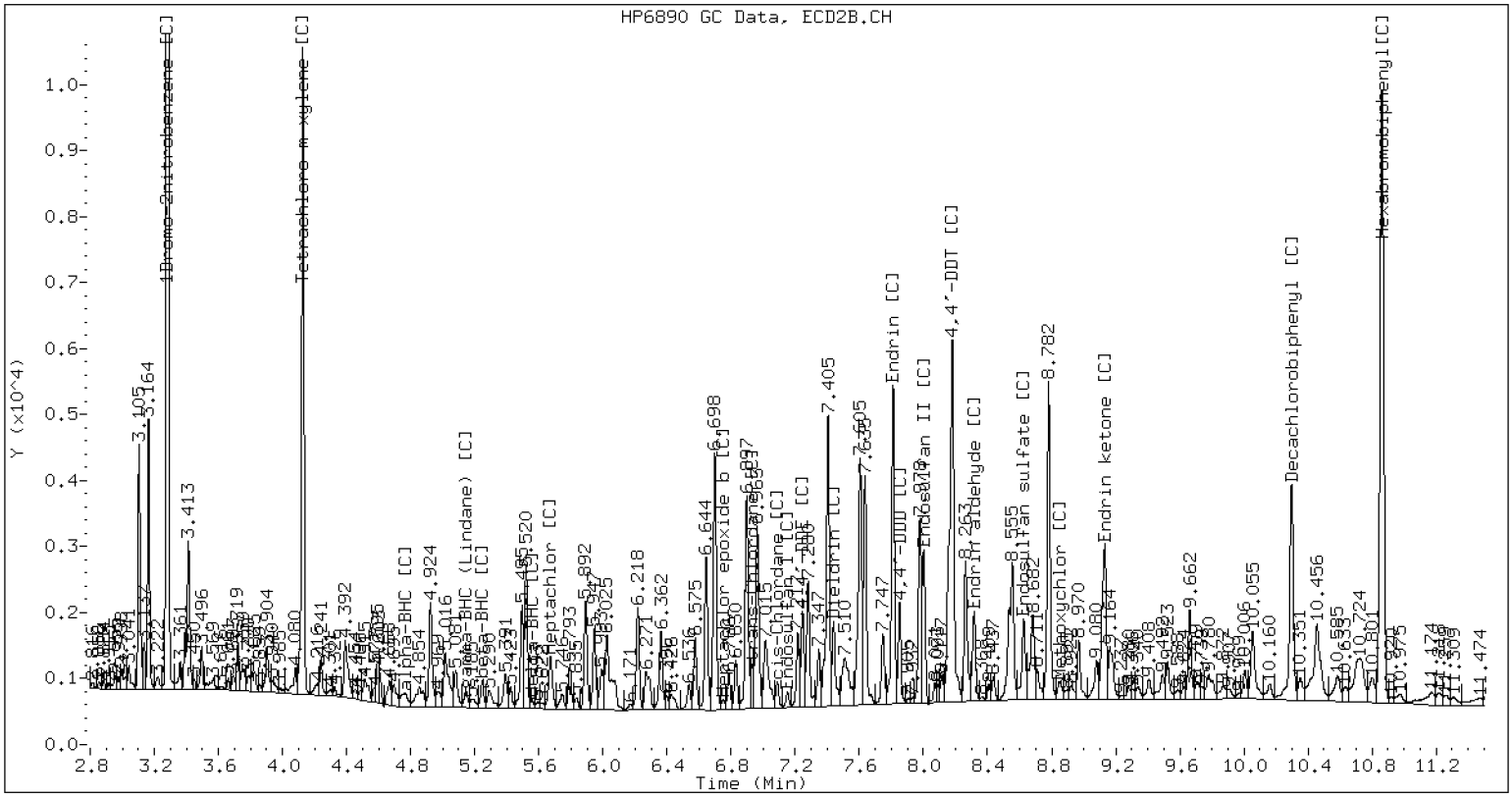
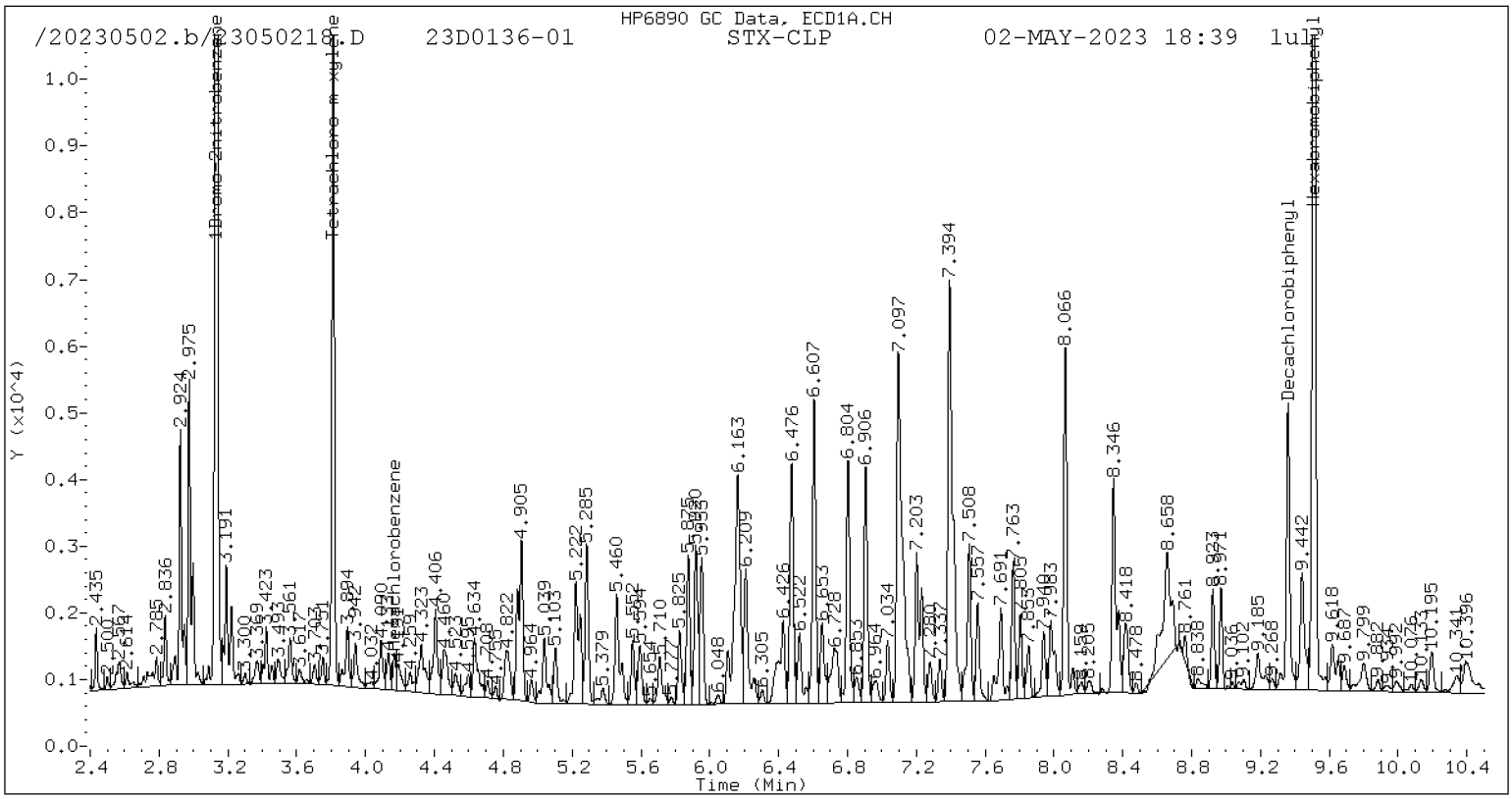
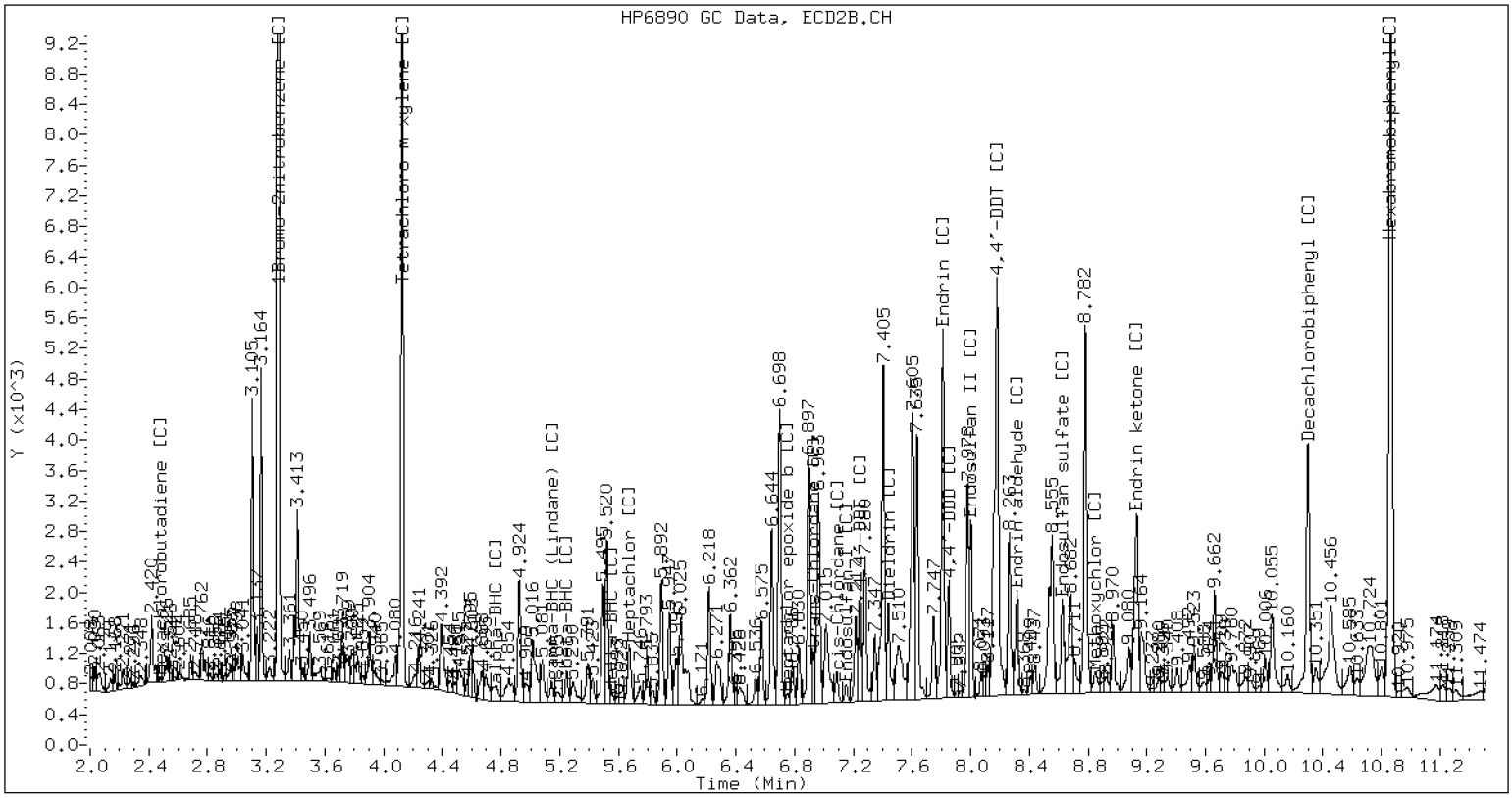


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

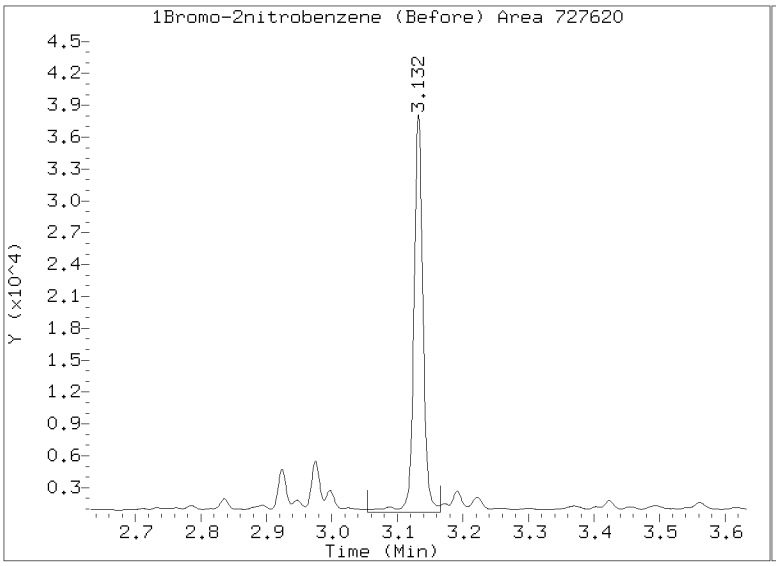
/20230502.b/B20230502.b/23050218.D 23D0136-01 CLP2

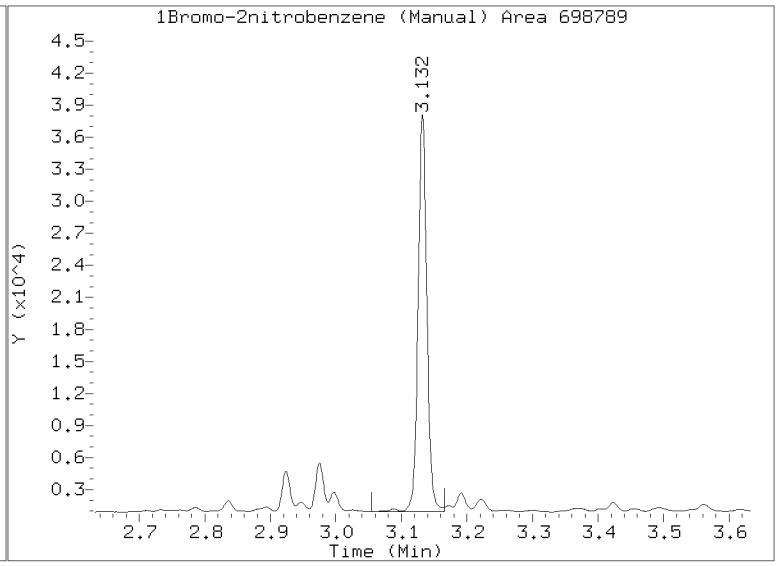


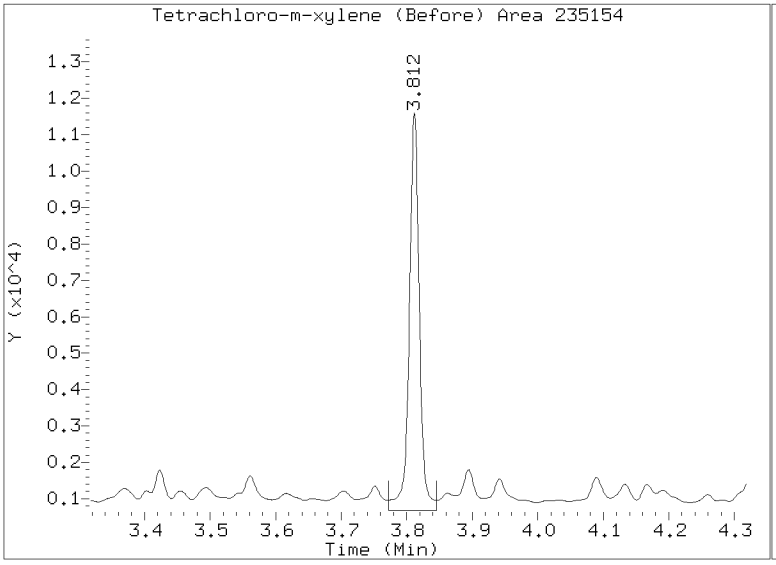
CLP-2 Manual Integration: NO

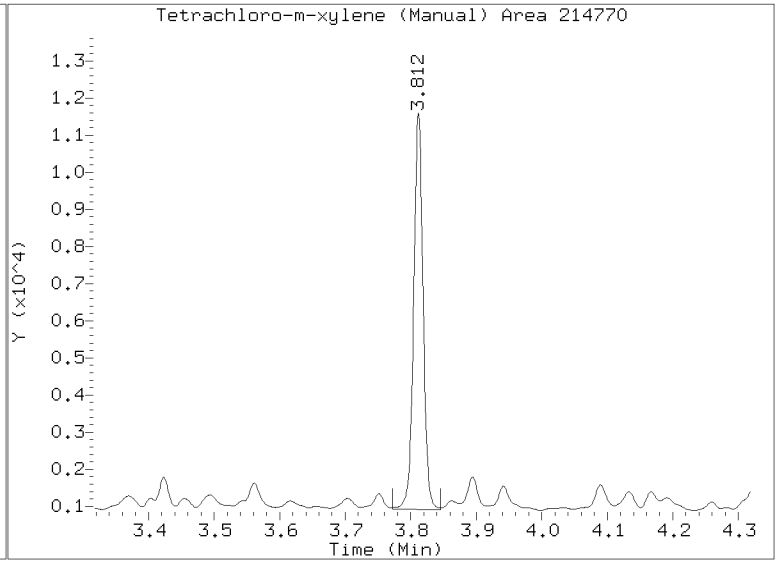
Manual Peak Adjustment Report, STX-CLP

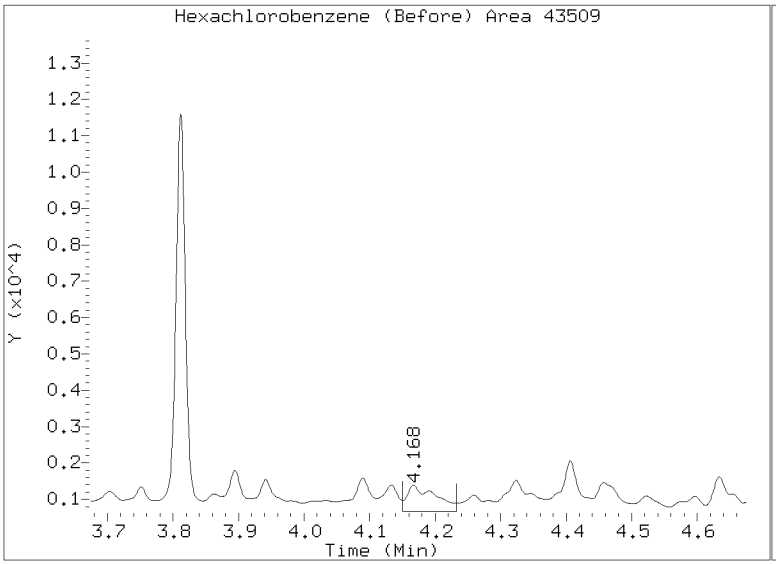
Datafile: /20230502.b/23050218.D
Injection Date: 02-MAY-2023 18:39
Lab ID:23D0136-01 Client ID:
Report Date: 05/05/2023 15:14

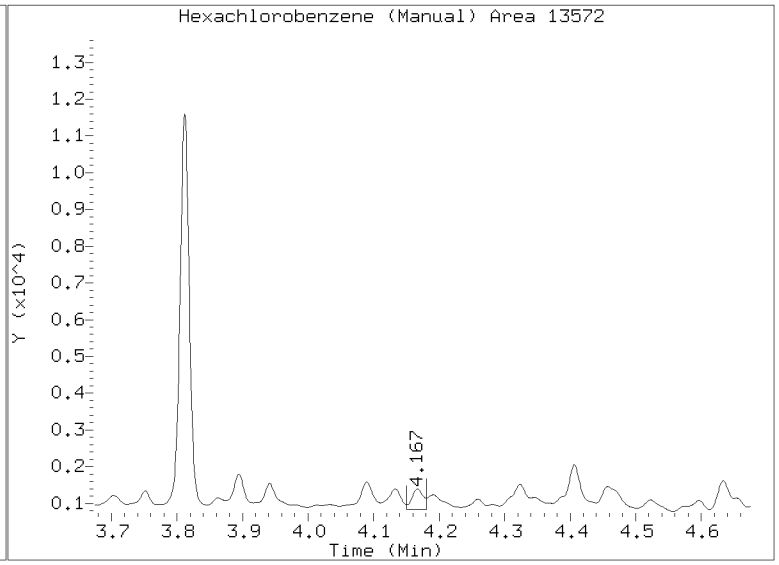






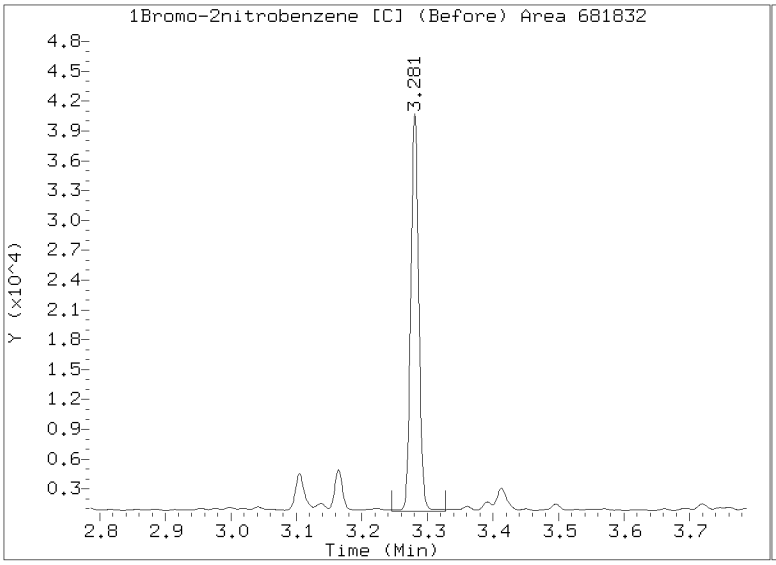


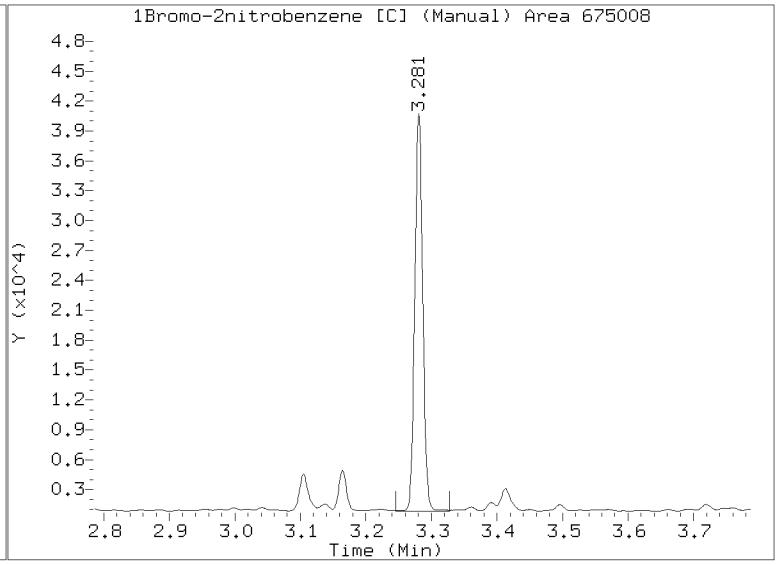


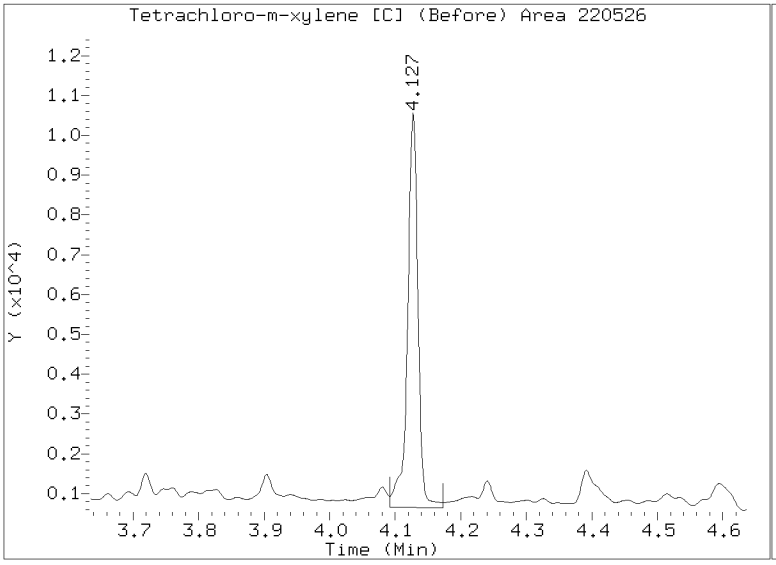


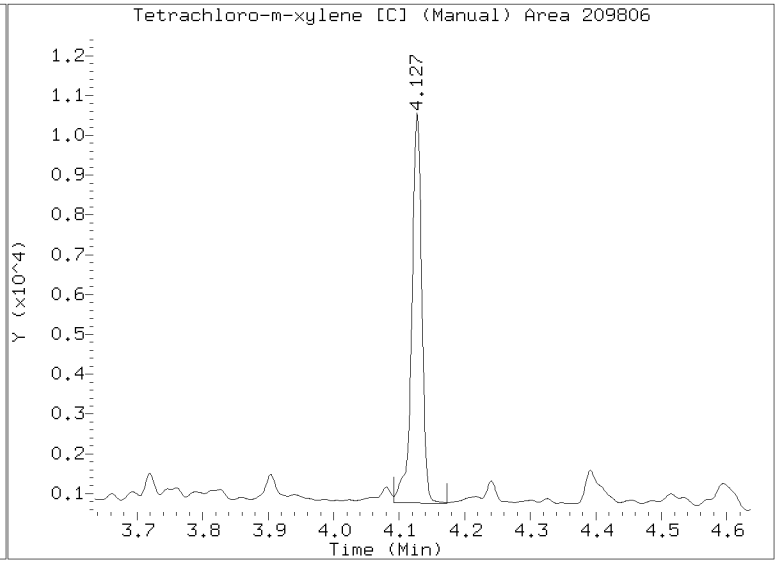
Manual Peak Adjustment Report, CLP-2

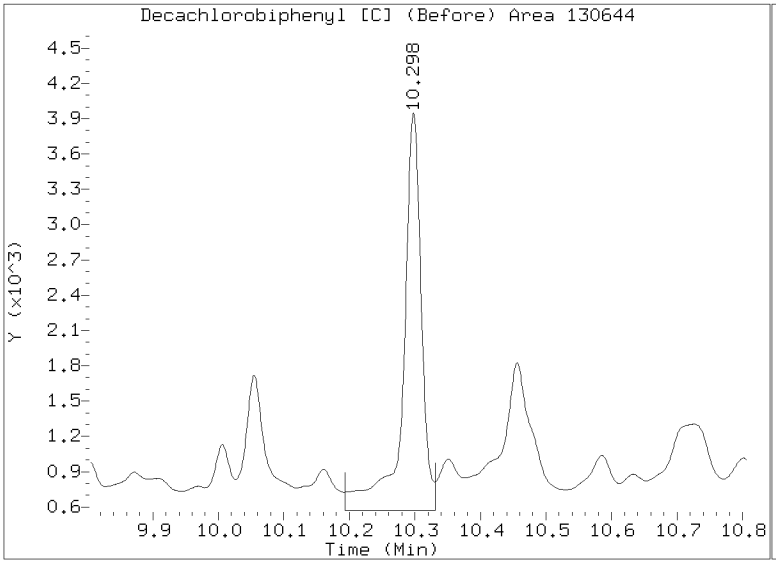
Datafile: /20230502.b/B20230502.b/23050218.D
Injection Date: 02-MAY-2023 18:39
Lab ID:23D0136-01 Client ID:

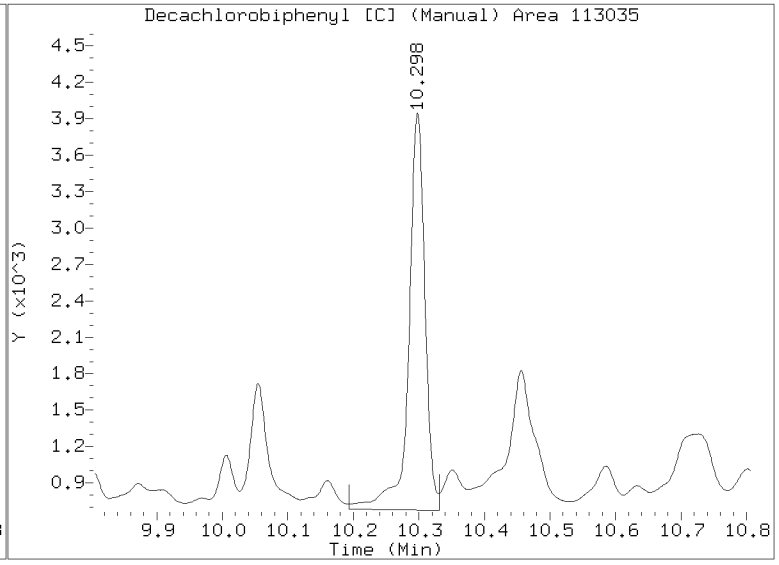






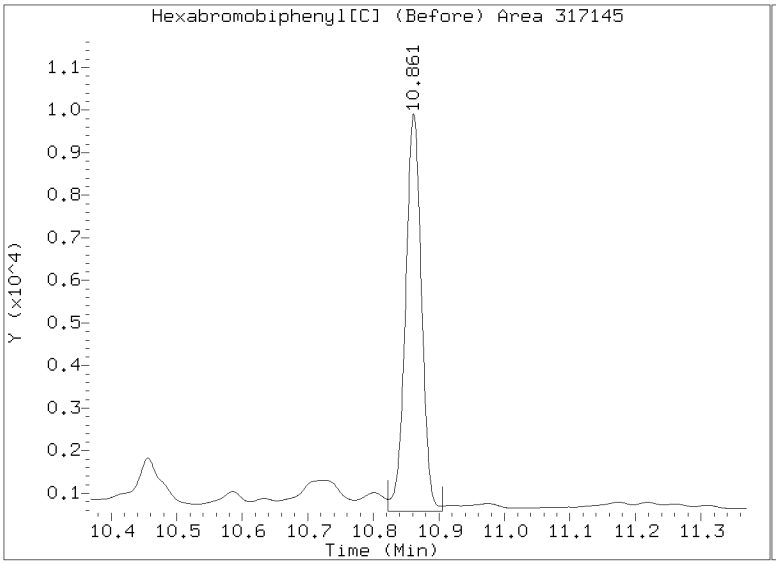


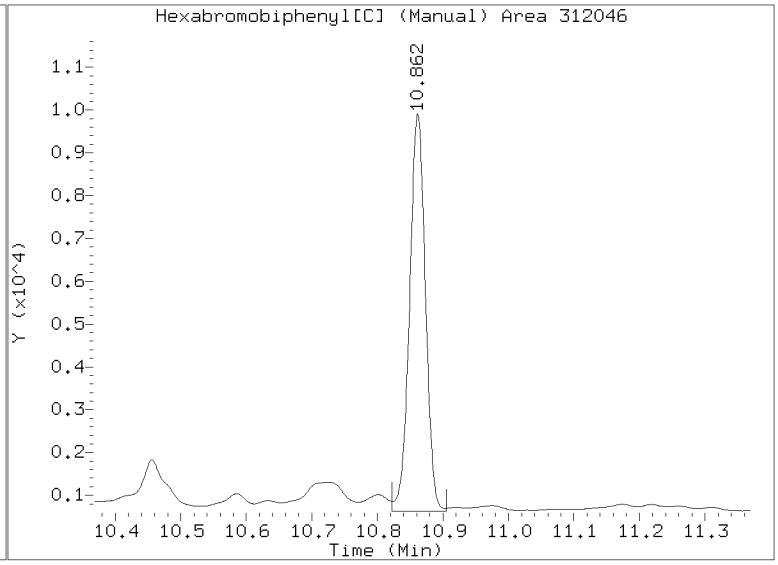




Manual Peak Adjustment Report, CLP-2

Datafile: /20230502.b/B20230502.b/23050218.D
Injection Date: 02-MAY-2023 18:39
Lab ID:23D0136-01 Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1803

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23D0136-03 A	File ID:	23050219.D
Sampled:	04/05/23 16:05	Prepared:	04/18/23 11:06	Analyzed:	05/02/23 18:58
% Solids:	44.31	Preparation:	EPA 3546 (Microwave)	Initial/Final:	28.21 g Wet / 2.5 mL
Batch:	BLD0325	Sequence:	SLE0106	Calibration:	GD00035
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	1	1	0.50	0.15	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0001*	*5.50*	*68.7*	*30 - 160*	
Decachlorobiphenyl	*2*	*8.0001*	*6.20*	*77.5*	*30 - 160*	
Tetrachlorometaxylene	*1*	*8.0001*	*4.75*	*59.3*	*30 - 160*	
Tetrachlorometaxylene	*2*	*8.0001*	*4.31*	*53.8*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050219.D
Data file 2: /20230502.b/B20230502.b/23050219.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23D0136-03
Client ID:
Injection Date: 02-MAY-2023 18:58
Report Date: 05/05/2023 15:04
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2			
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag	
----			----			0.00	0.00	---	alpha-BHC	
----			----			0.00	0.00	---	beta-BHC	
----			----			0.00	0.00	---	delta-BHC	
----			----			0.00	0.00	---	gamma-BHC (Lindane)	
----			----			0.00	0.00	---	Heptachlor	
----			----			0.00	0.00	---	Aldrin	
----			----			0.00	0.00	---	Heptachlor epoxide b	
----			----			0.00	0.00	---	Endosulfan I	
----			----			0.00	0.00	---	Dieldrin	
----			----			0.00	0.00	---	4,4'-DDE	
----			----			0.00	0.00	---	Endrin	
----			----			0.00	0.00	---	Endosulfan II	
----			----			0.00	0.00	---	4,4'-DDD	
----			----			0.00	0.00	---	Endosulfan sulfate	
----			----			0.00	0.00	---	4,4'-DDT	
----			----			0.00	0.00	---	Methoxychlor	
----			----			0.00	0.00	---	Endrin ketone	
----			----			0.00	0.00	---	Endrin aldehyde	
----			----			0.00	0.00	---	trans-Chlordane	
----			----			0.00	0.00	---	cis-Chlordane	
----			----			0.00	0.00	---	Hexachlorobutadiene	
4.166	-0.009	14247	----			1.11	0.00	---	Hexachlorobenzene	
3.812	-0.007	220973	4.127	-0.009	200524	23.73	21.53	9.7	Tetrachloro-m-xylene	MN
9.360	-0.006	129998	10.298	-0.008	112441	27.49	30.99	12.0	Decachlorobiphenyl	N

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

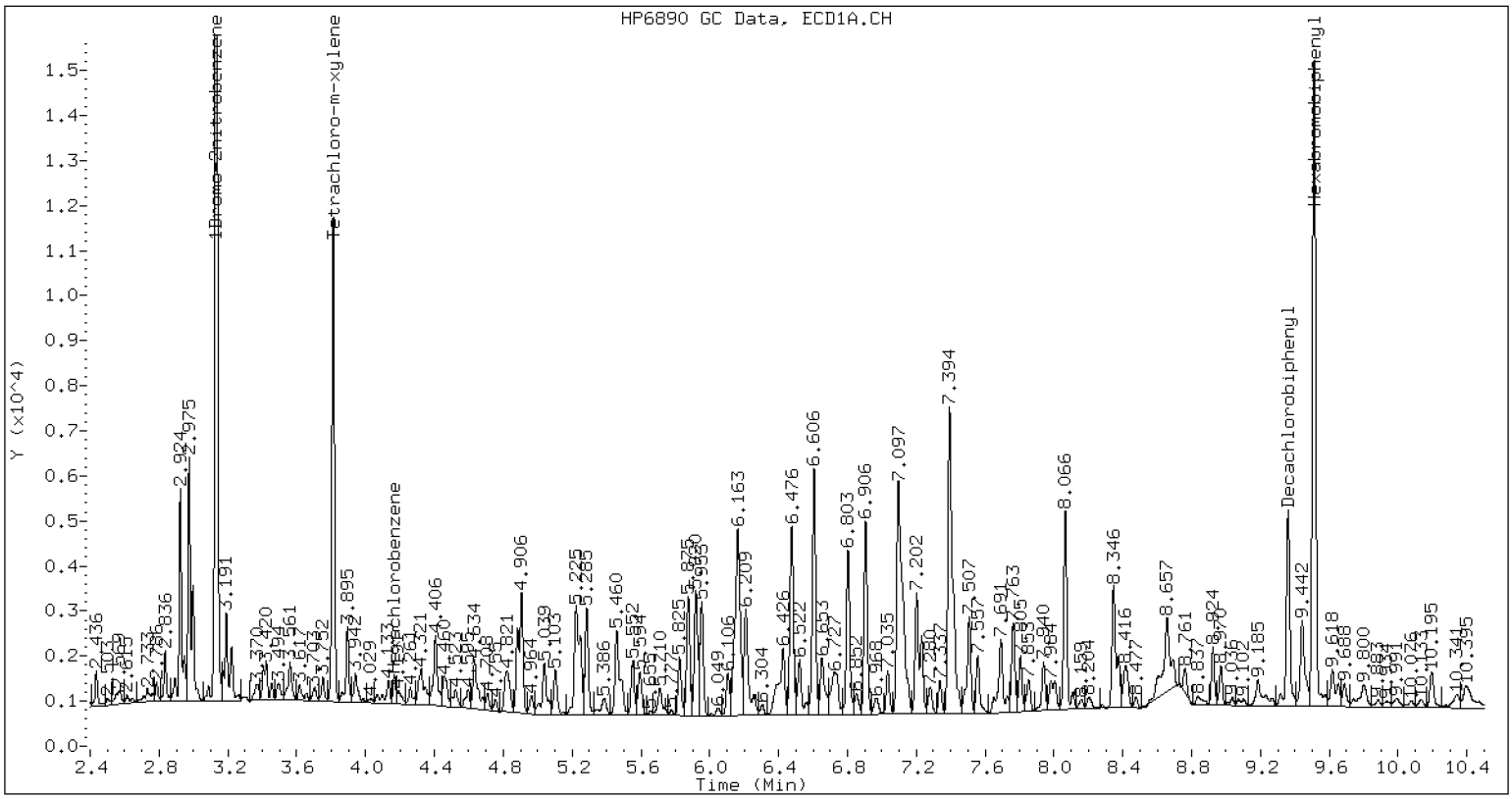
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	665574	-28.6
Hexabromobiphenyl	745426	400928	-46.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	677395	-45.8
Hexabromobiphenyl	754634	300599	-60.2 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230502.b/23050219.D 23D0136-03 STX-CLP 02-MAY-2023 18:58 1ul



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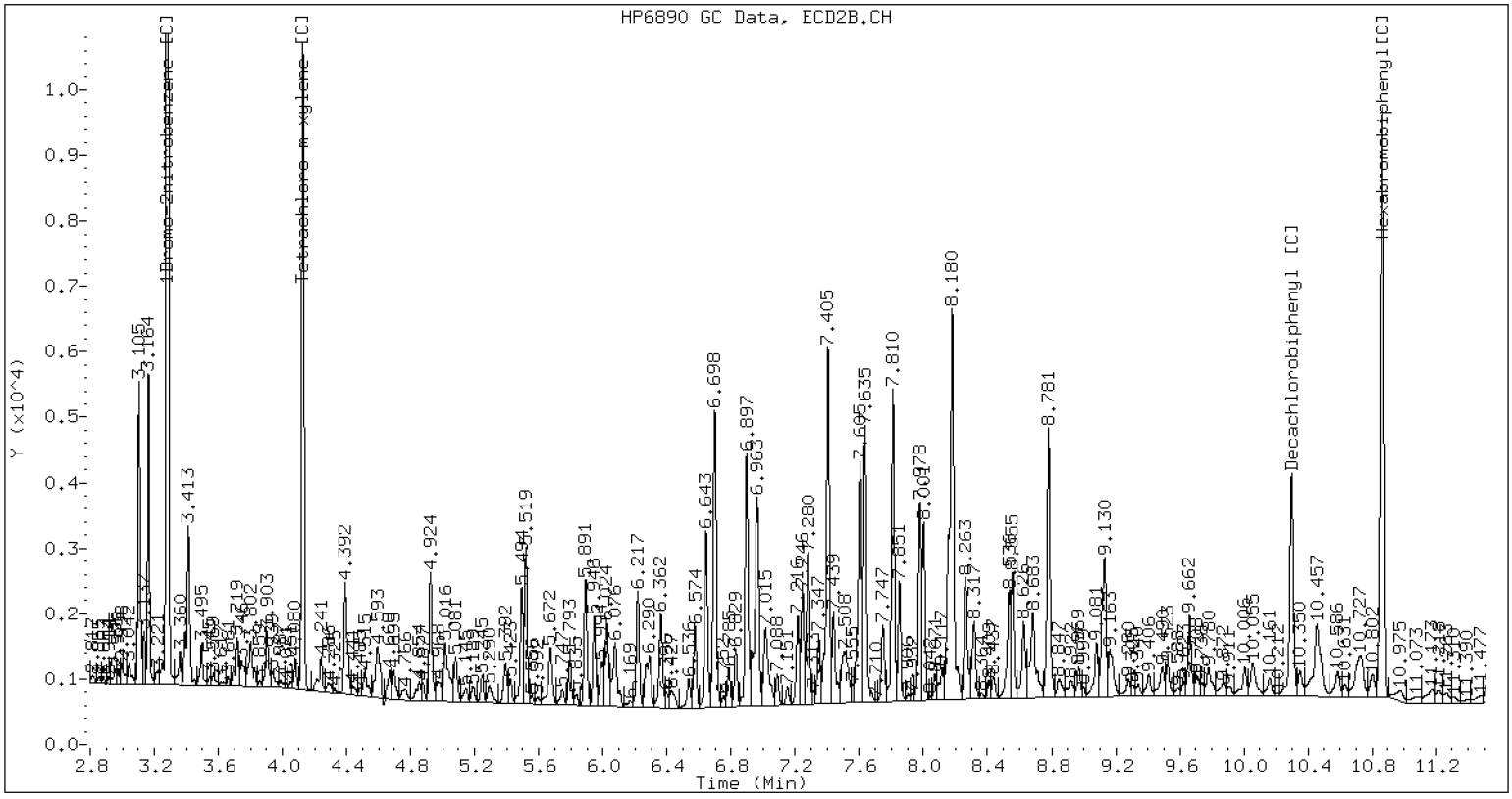
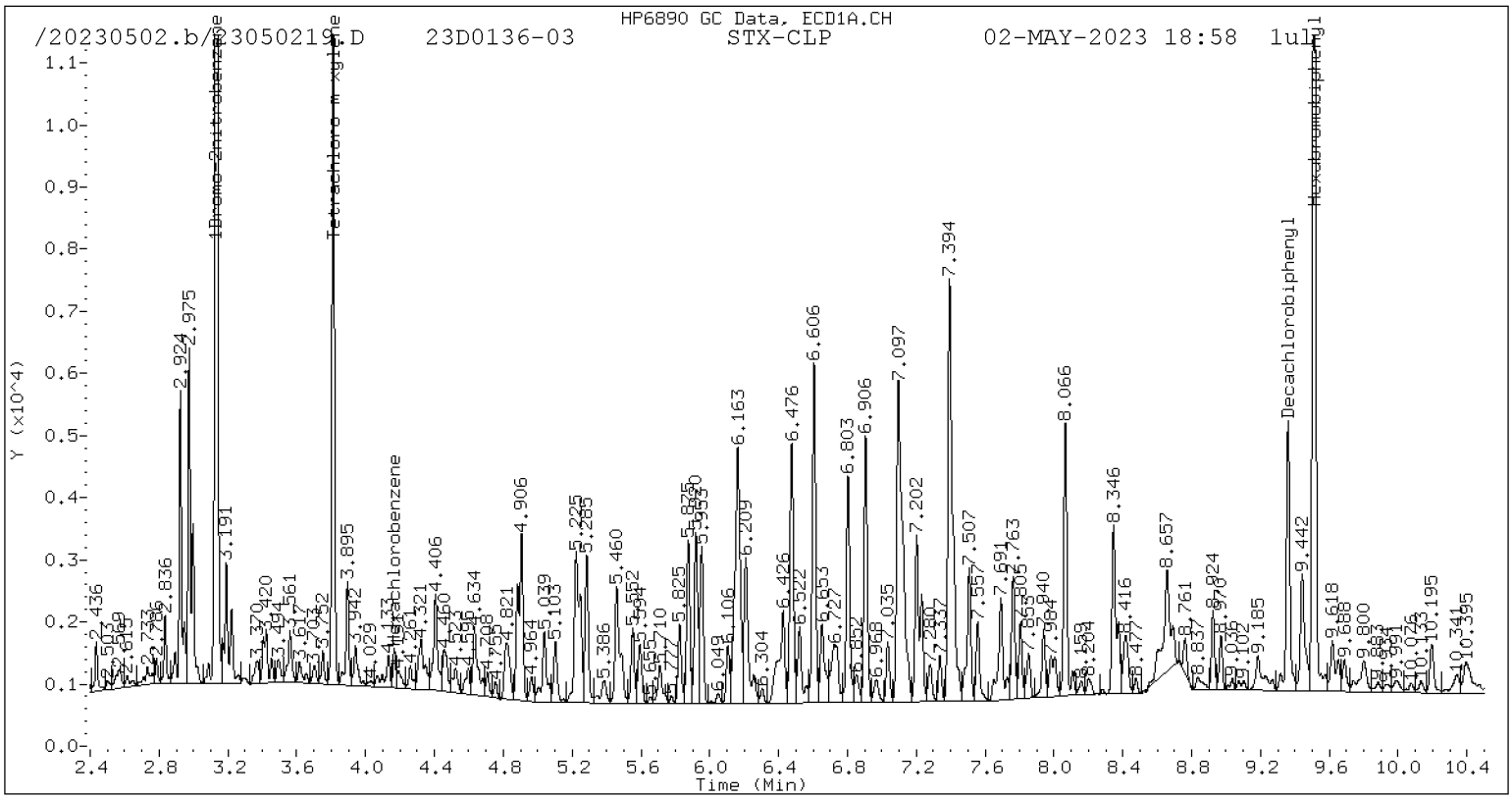
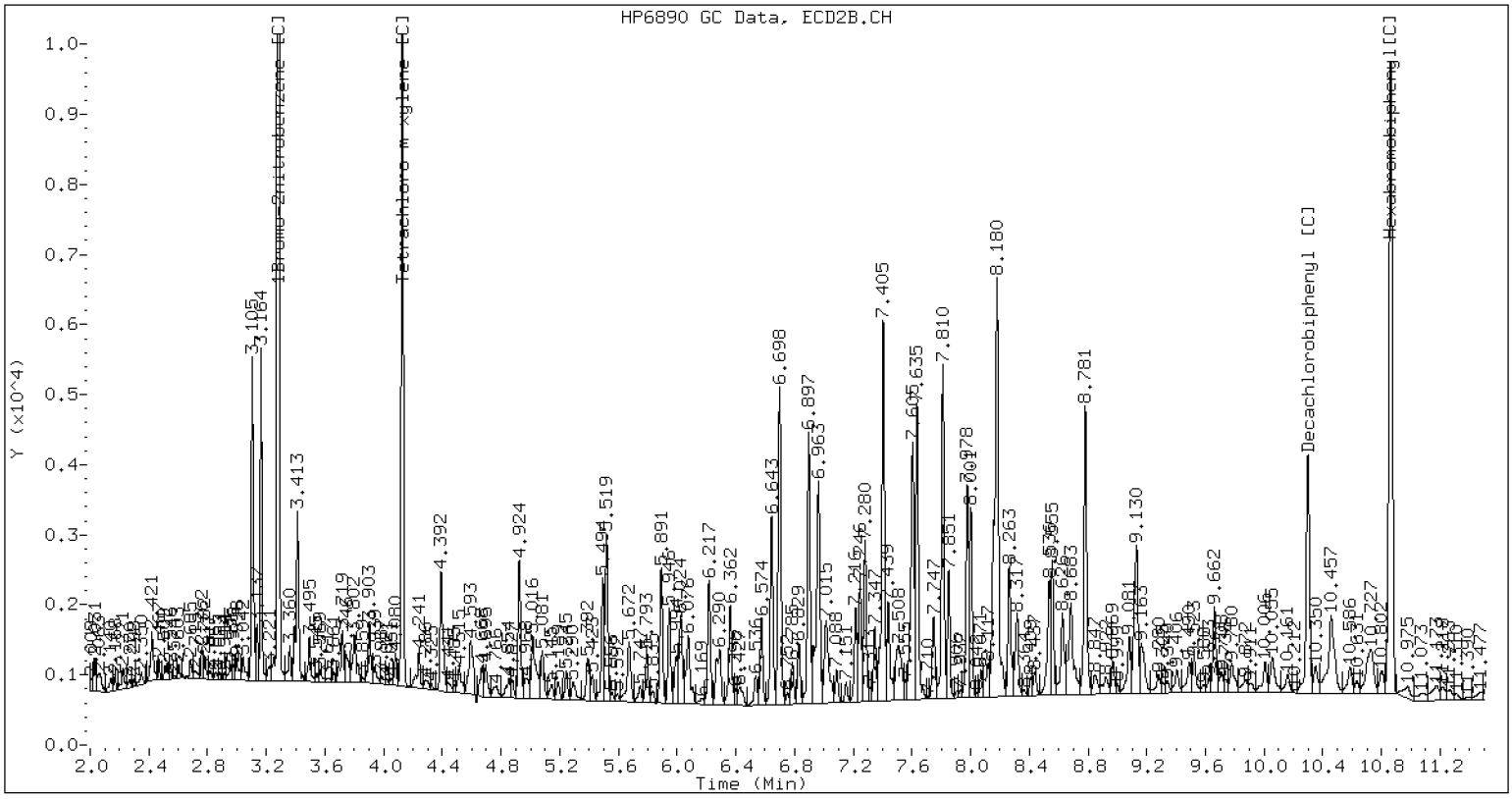


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

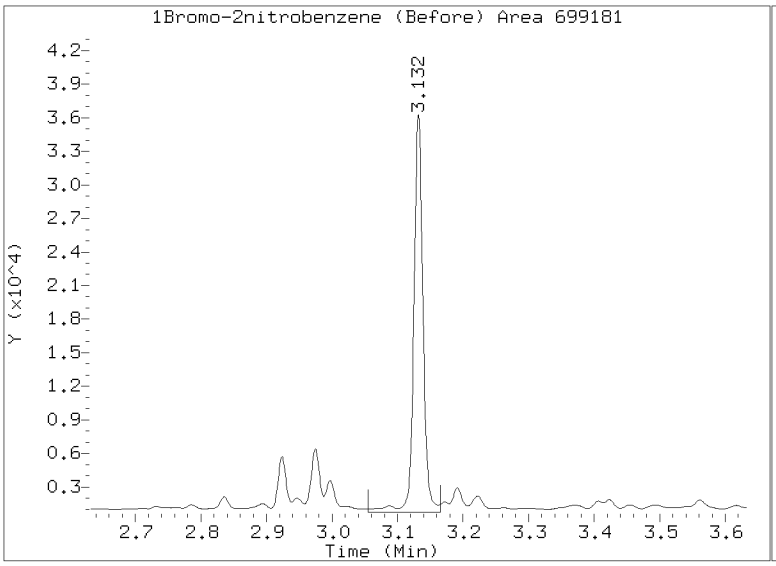
/20230502.b/B20230502.b/23050219.D 23D0136-03 CLP2

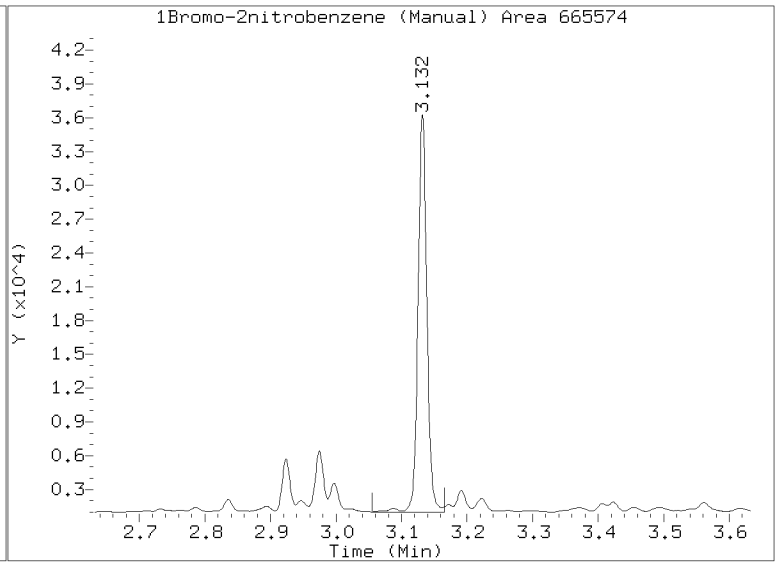


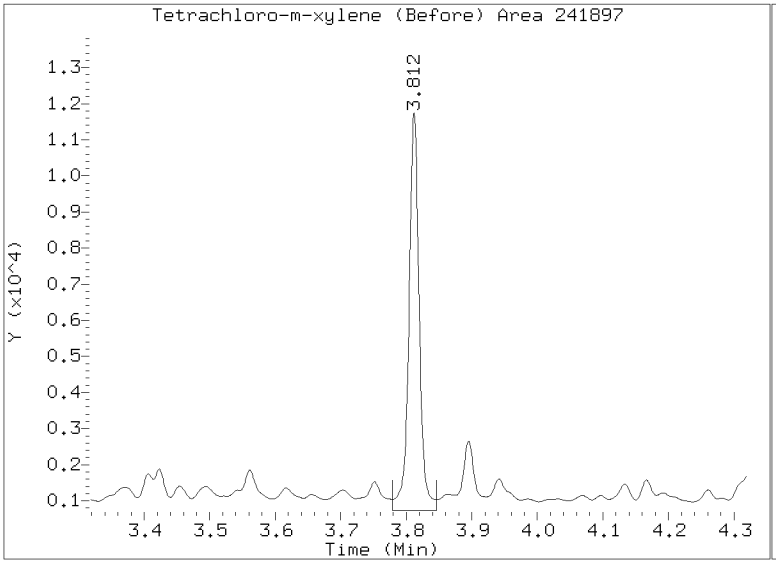
CLP-2 Manual Integration: YES

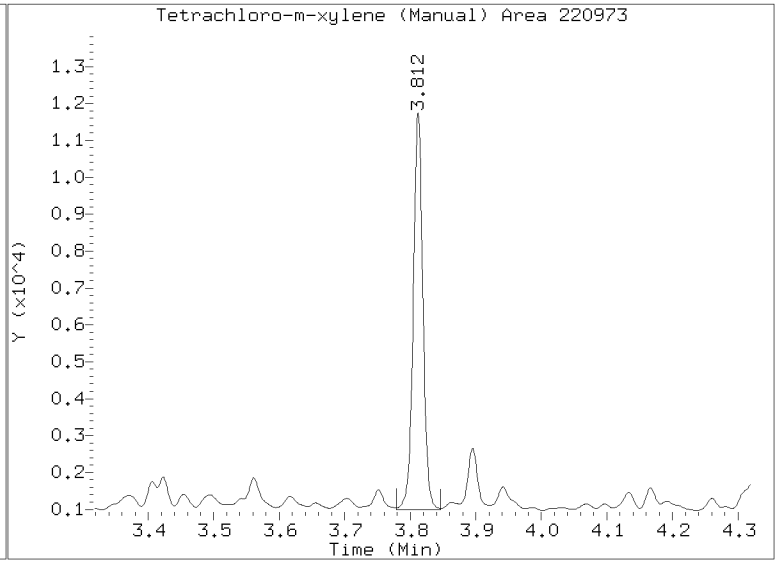
Manual Peak Adjustment Report, STX-CLP

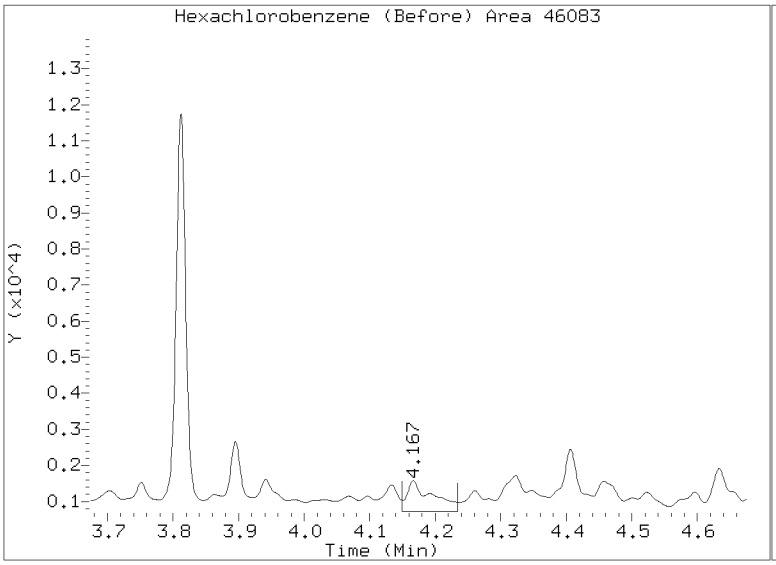
Datafile: /20230502.b/23050219.D
Injection Date: 02-MAY-2023 18:58
Lab ID:23D0136-03 Client ID:
Report Date: 05/05/2023 15:04

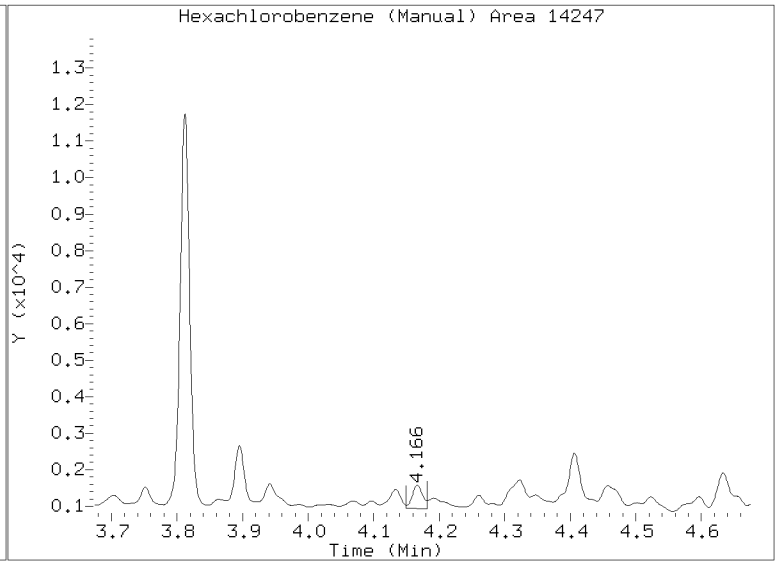






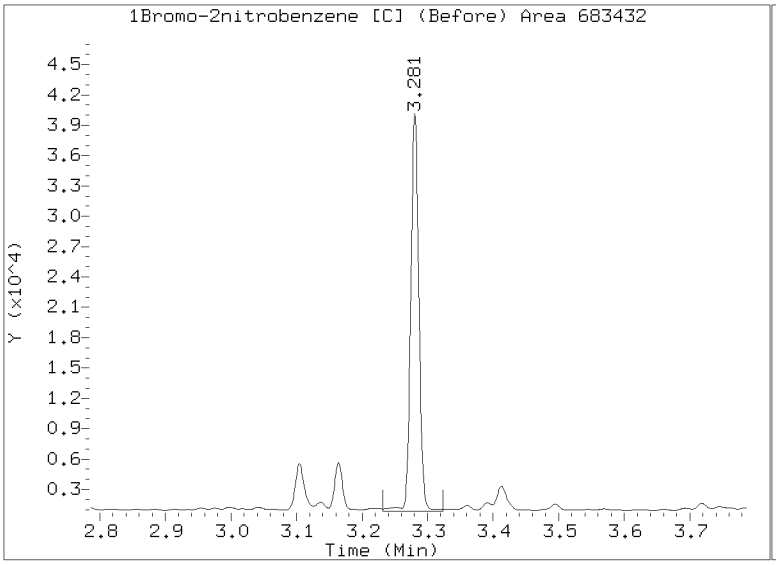


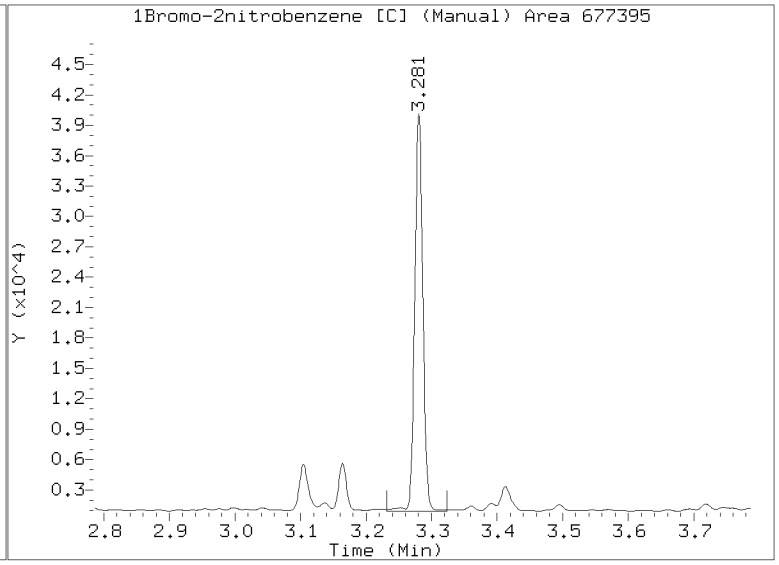


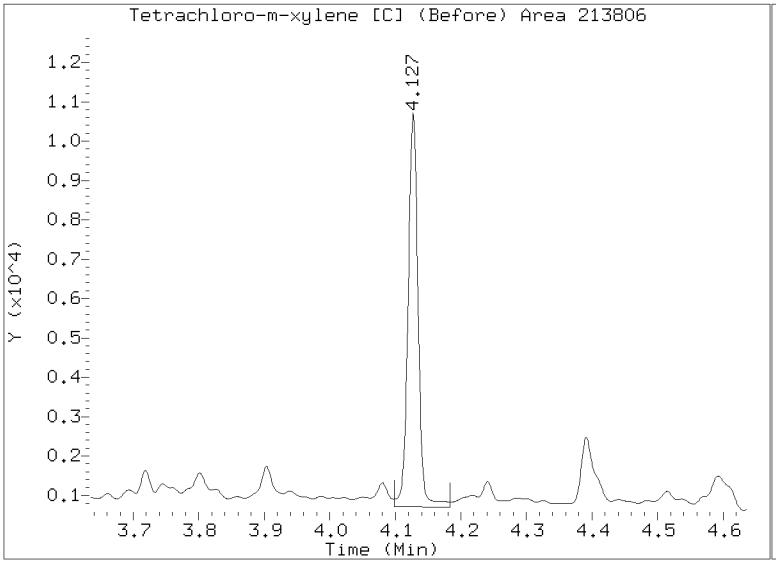


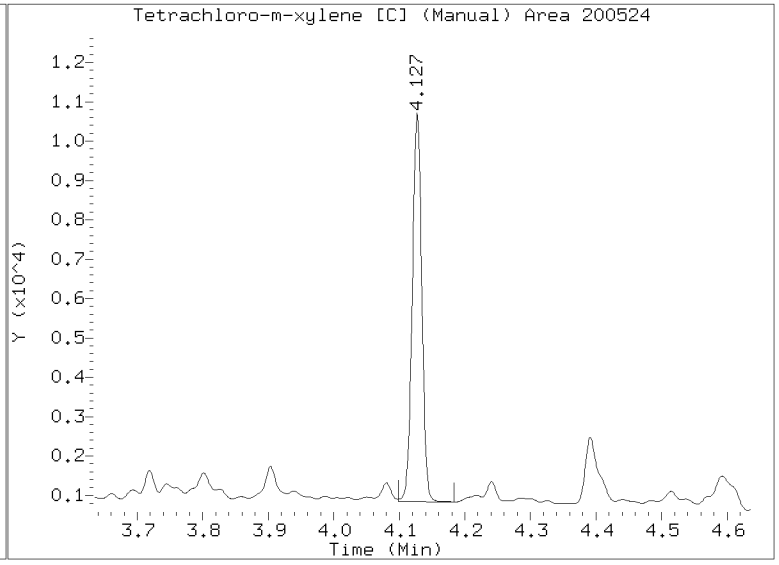
Manual Peak Adjustment Report, CLP-2

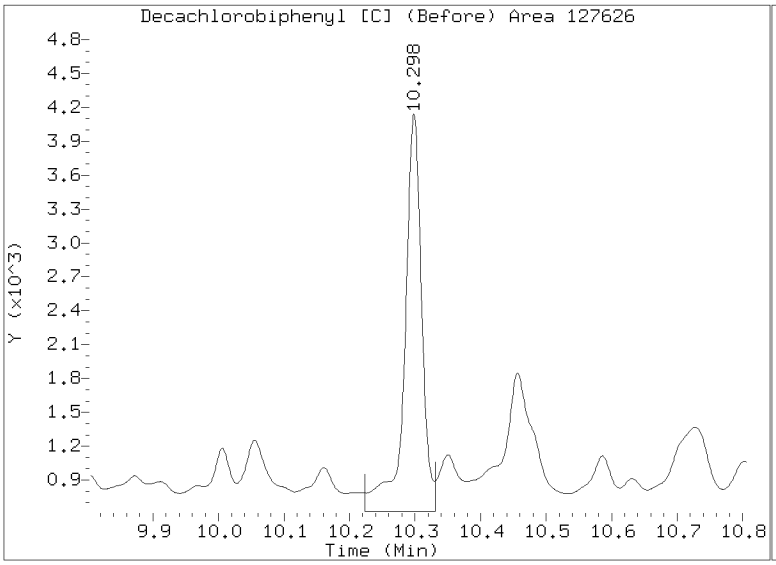
Datafile: /20230502.b/B20230502.b/23050219.D
Injection Date: 02-MAY-2023 18:58
Lab ID:23D0136-03 Client ID:

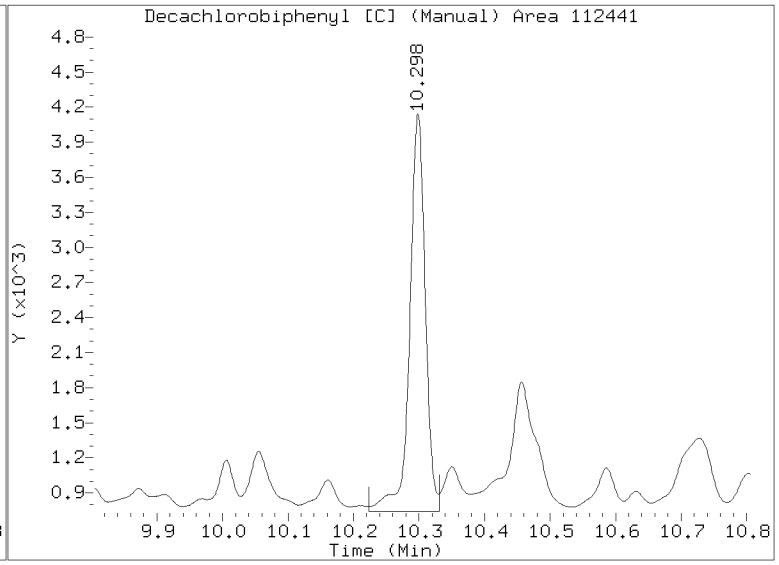






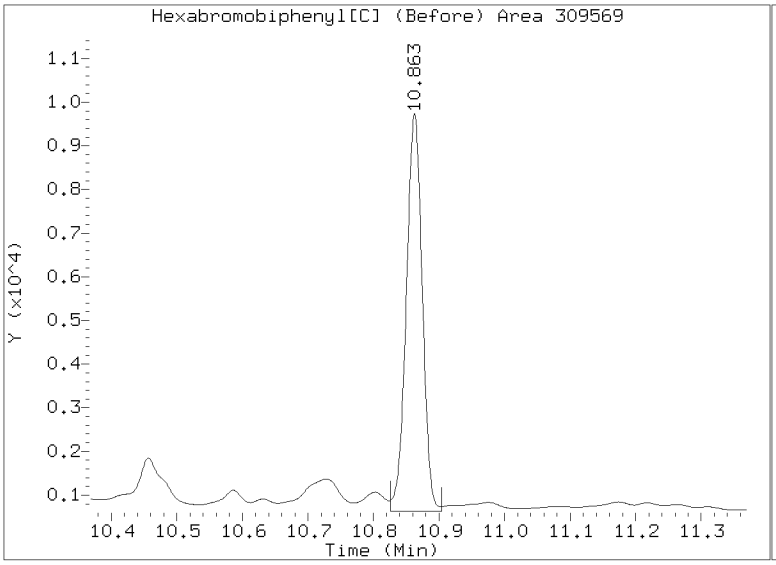


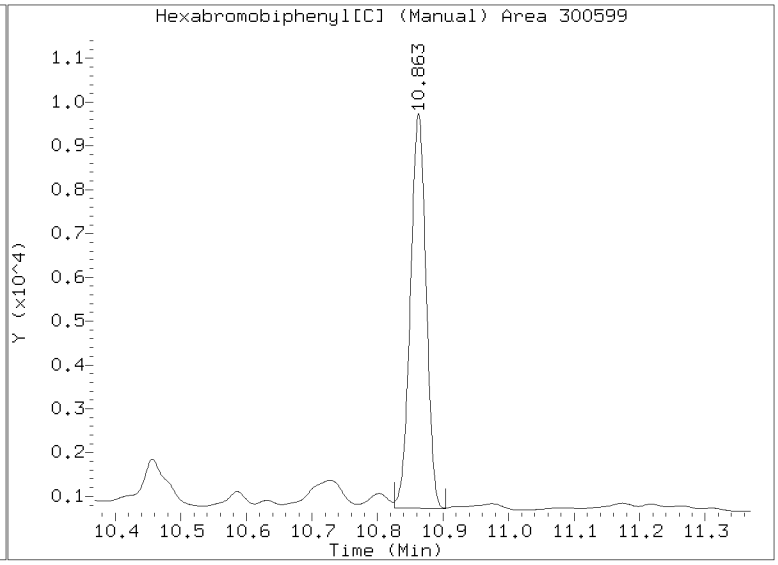




Manual Peak Adjustment Report, CLP-2

Datafile: /20230502.b/B20230502.b/23050219.D
Injection Date: 02-MAY-2023 18:58
Lab ID:23D0136-03 Client ID:





PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0325 Batch Matrix: Solid
Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050218.D	04/18/23 11:06	
LDW23-SS1803	23D0136-03	23050219.D	04/18/23 11:06	
Blank	BLD0325-BLK1	23050213.D	04/18/23 11:06	
LCS	BLD0325-BS1	23050214.D	04/18/23 11:06	
LCS Dup	BLD0325-BSD1	23050215.D	04/18/23 11:06	
LDW23-SS1804	BLD0325-MS1	23050216.D	04/18/23 11:06	
LDW23-SS1804	BLD0325-MSD1	23050217.D	04/18/23 11:06	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0325

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

Matrix: Solid Date Prepared: 04/18/23 Balance ID: B1464626l4 Set Up By: CPO 4/13/23

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

The following standards may be missing from this batch!

Designator	Description
62	Toxaphene
44	WND
QLS 10	QLS Spike

Analysis: 8081B Pest (PSDDA)

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) GPC (1:1) 1 2 3	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL ~~Ethyl Acetate~~	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23D0136-01 A	49.3	(25.33)	25.38	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23D0136-03 A	44.3	(28.21)	28.21	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) GPC (1:1) 1 2 3	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL ~~Ethyl Acetate~~	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0325-BLK1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLD0325-BS1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLD0325-BSD1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLD0325-MS1	49.3	(25.33)	25.33	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 23D0136-01
BLD0325-MSD1	49.3	(25.33)	25.33	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 23D0136-01

04/18/23 — Client ID Verified By — Date

NKB 5/2/23 — Preparation Reviewed By — Date

04/18/23 11:46 — Extraction Date and Time

Printed: 4/13/2023 9:15:36AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0325

Prepared using: EPA 3546 (Microwave)
8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments
23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

Prep Steps

Microwave
1 2 3
CT 4/18/23
Analyst/Date

Pre GPC KD
100°C
(No Exchange)
(1) 3 4 5 6
CR 4/21/23
Analyst/Date

TurboVap
Pre GPC
1 2 3 4 5
NRS 4/24/23
Analyst/Date

Post GPC KD
80 - 85°C
Hexane Exchange
(2 X 20 mL)
100°C
1 2 3 4 5 6
CR 4/25/23
Analyst/Date

TurboVap
Pre-Cleanups
1 2 3 4 5
LJ 5/1/23
Analyst/Date

TurboVap
Post-Cleanups
1 2 3 4 5
NRS 5/2/23
Analyst/Date

Vialing
NRS 5/2/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 4/18/23	
Hexane	L001957
80:20 Hexane/Acetone	L002246
1:1 Hexane/Acetone	L003045
Neutral Glass Wool	L002437
Anhydrous Sodium Sulfate	L003657
Pre GPC KD Analyst: CR Date: 4/21/23	
Hexane	L001957
~~Anhydrous Sodium Sulfate~~	
~~Neutral Glass Wool~~	
GPC Filter Prep Analyst: NRS Date: 4/24/23	
Methylene Chloride	K005941
GPC Filter	L001799
GPC Analyst: NRS Date: 4/24/23	
Methylene Chloride	K005941
GPC Calibration File	CL030132
Post GPC KD Analyst: CR Date: 4/25/23	
Methylene Chloride	K005941
Hexane	L003500
Vialing Analyst: LJ/NRS Date: 5/2/23	
Hexane	L003500
Sulfuric Acid	L001033
Ethyl Acetate	N/A
Tetrabutylammonium hydrogensulfate (TBAS)	L003024
Sodium Sulfite	L002437
Silica Gel (SPE) Darts	L00 3399

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N ~~L000773~~ L003662 Exp Date: 7/21/2023	50µL	CT	Y
Spike (Freezer) 0.5/1/5µg/mL	3 L003590 Exp Date: 10/5/2023	100µL	CT	Y

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0325

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessels. 3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 15 min in cold water. Re-homogenize while cool. 7. Decant 1:1 Hex/ACE into Erlenmeyer flask using a funnel containing neutral glasswool. 8. Rinse with Hexane. 9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane. 11. KD to 5mL at 100°C. (NO HEXANE EXCHANGE). 12. TurboVap 13. GPC 14. After GPC: KD at 80 - 85°C 15. Exchange to Hexane at 100°C 2 x 20 mL). 16. TurboVap. 17. Cleanups, If Acid cleaning do not add Ethyl Acetate for Sulfur Clean. Do Not Acid Clean if Acid liable compounds are requested. 18. Vial in Hexane. A. Need Total Solids Y (N) B. Archive/Freeze Y (N)	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PEST Extraction Batch BLD0325

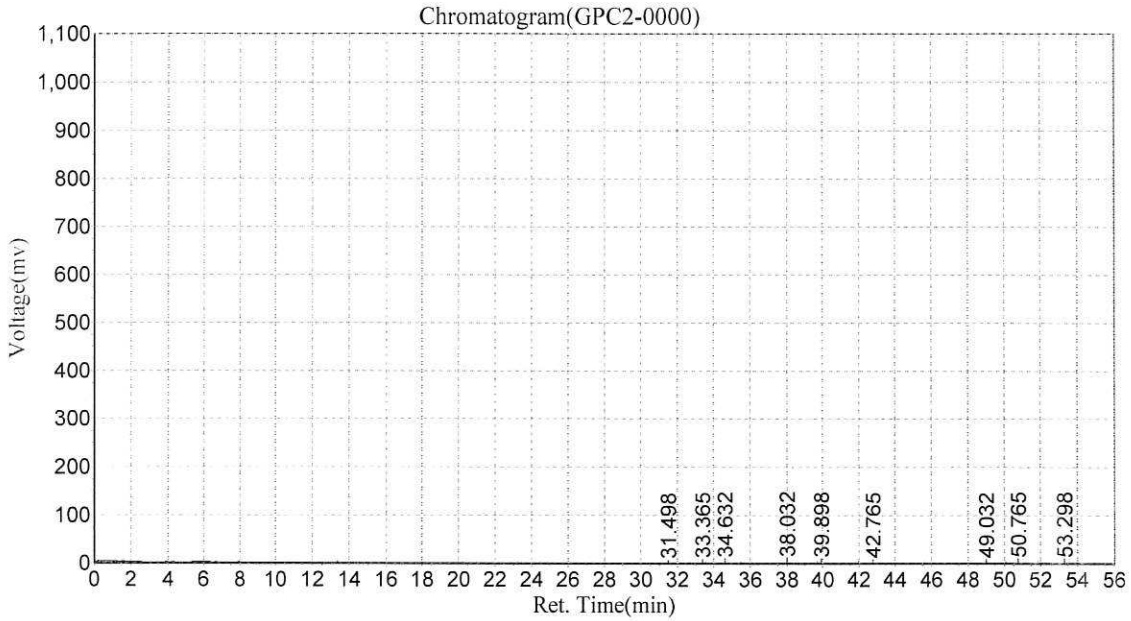
Total Solids Batch: BLD0208 Work Order(s): 23D0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 01-04	CR 4/12/23
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	CR 4/12/23
☒ Multiple Jars Y / (N)	CR 4/12/23
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

BLD0325/411 23D0136/247

Date:2023-04-24,1:50:23 PM
Data File:c:\n2000\data\gpc2\042423\GPC2-0000
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-24,1:50:24 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		31.498	1517.593	104434.195	3.9475
2		33.365	2685.458	117056.477	4.4246
3		34.632	3562.509	320688.281	12.1217
4		38.032	5619.119	1034233.250	39.0931
5		39.898	3250.983	330742.469	12.5018
6		42.765	2014.203	159597.047	6.0326
7		49.032	1652.507	238105.188	9.0002
8		50.765	2526.760	176161.375	6.6588
9		53.298	1871.053	164543.703	6.2196
Total			24700.184	2645561.984	100.000

Ingredient Table

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

BLD0325/411 23D0136/247

Date:2023-04-24,2:48:11 PM
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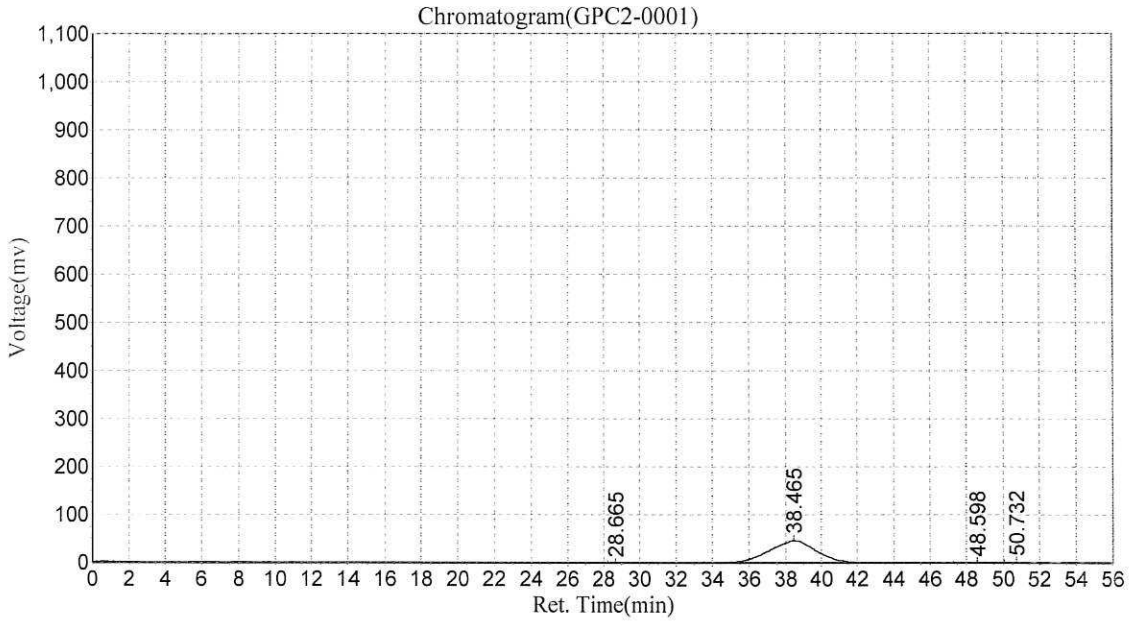
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-24,2:48:11 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		28.665	1835.395	101828.258	0.9302
2		38.465	50167.727	10490726.000	95.8290
3		48.598	1790.500	164880.813	1.5061
4		50.732	2119.136	189901.281	1.7347
Total			55912.758	10947336.352	100.000

Ingredient Table

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

BLD0325/411 23D0136/247

Date:2023-04-24,3:45:54 PM
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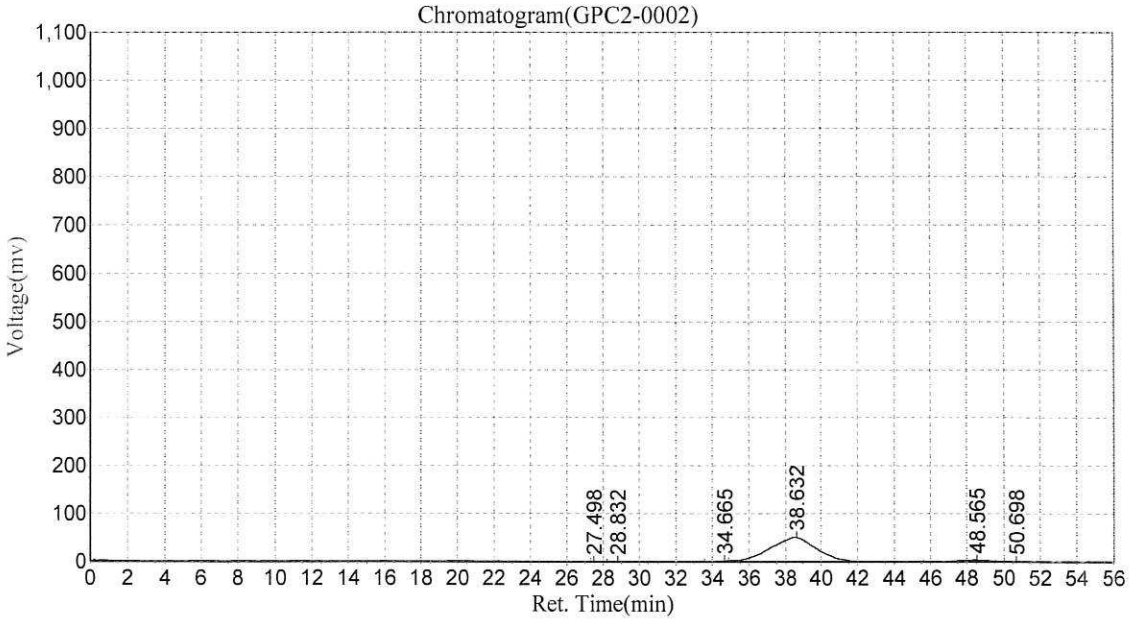
Analyst£°NRB
Date/Time2023-04-24,3:45:54 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		27.498	3011.011	125690.391	1.0021
2		28.832	2871.978	168277.734	1.3417
3		34.665	5012.752	282738.938	2.2542
4		38.632	53900.215	10612422.000	84.6117
5		48.565	6683.397	1072177.625	8.5484
6		50.698	3013.798	281186.031	2.2419
Total			74493.151	12542492.719	100.000

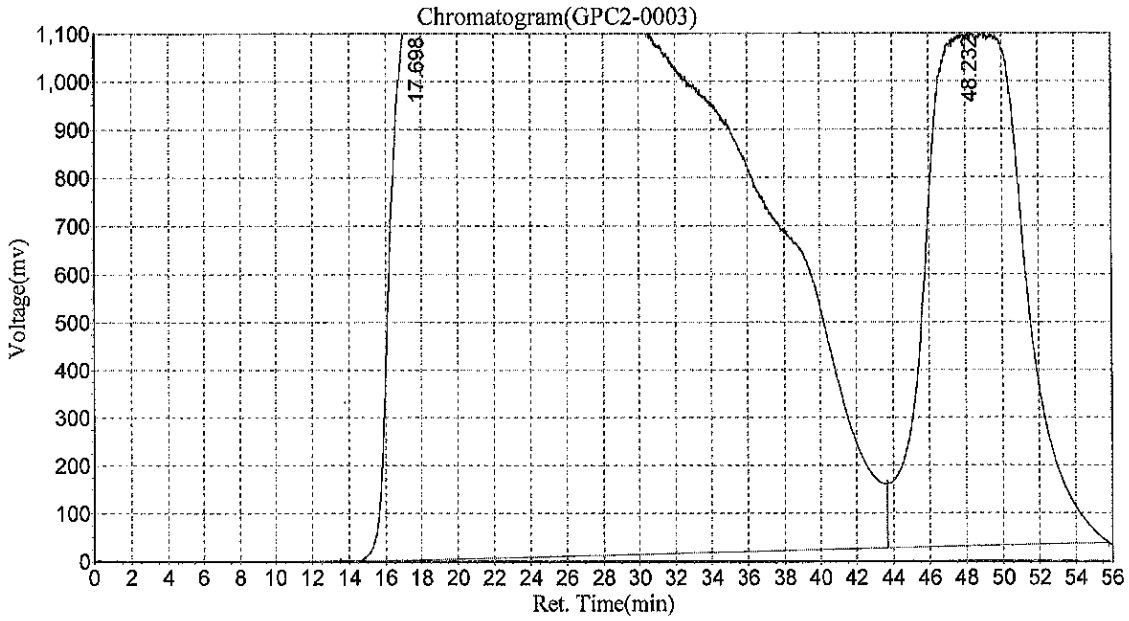
Ingredient Table

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

BLD0325/411 23D0136/247

Date:2023-04-24,4:43:37 PM
Data File:c:\n2000\data\gpc2\042423\GPC2-0003
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-24,4:43:37 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.698	1170998.250	1518036096.000	79.3884
2		48.232	1063564.875	394128352.000	20.6116
Total			2234563.125	1912164448.000	100.000

Ingredient Table

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

BLD0325/411 23D0136/247

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Method File:E:\GPC2_InHouse.mtd

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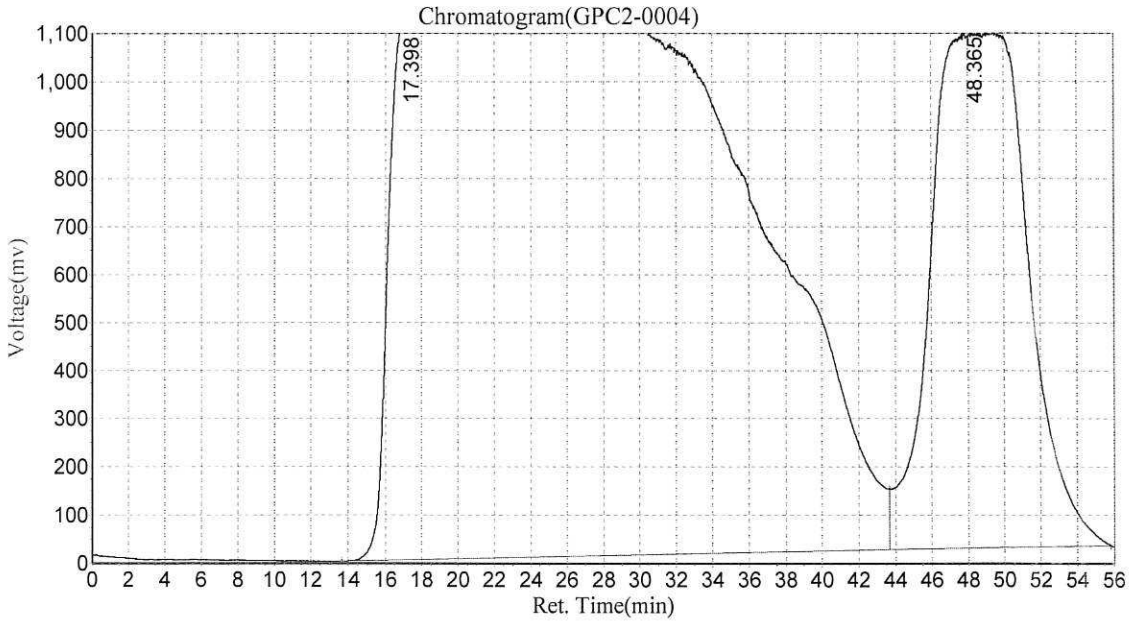

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	1163073.500	1503123072.000	79.2906
2		48.365	1064711.875	392590560.000	20.7094
Total			2227785.375	1895713632.000	100.000

Ingredient Table

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

BLD0325/411 23D0136/247

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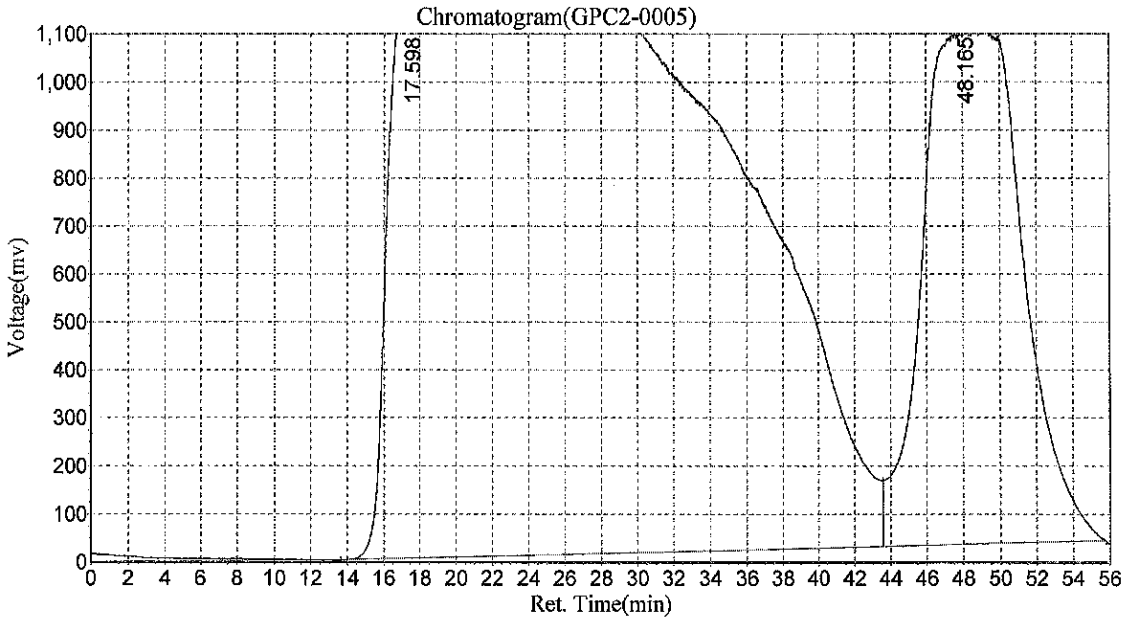

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.598	1168533.125	1502913536.000	78.8181
2		48.165	1064417.500	403900256.000	21.1819
Total			2232950.625	1906813792.000	100.000

Ingredient Table

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

BLD0325/411 23D0136/247

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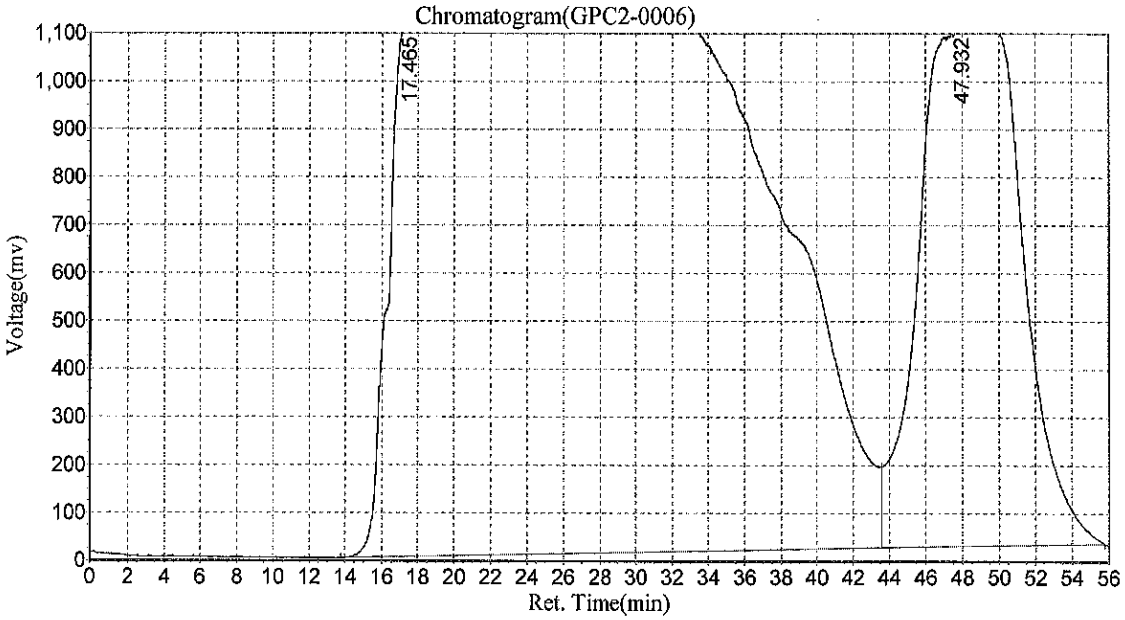
Method File:E:\GPC2_InHouse.mtd

Analyst£°NRB
Date/Time2023-04-24,7:36:48 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.465	1133895.500	1586771712.000	79.0778
2		47.932	1077951.500	419824064.000	20.9222
Total			2211847.000	2006595776.000	100.000

Ingredient Table

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

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0013	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike	BLD0325-MS1	23050216.D	05/02/2023	
Matrix Spike Dup	BLD0325-MSD1	23050217.D	05/02/2023	
LDW23-SS1803	23D0136-03	23050219.D	05/02/2023	
Blank	BLD0325-BLK1	23050213.D	05/02/2023	
LCS	BLD0325-BS1	23050214.D	05/02/2023	
LCS Dup	BLD0325-BSD1	23050215.D	05/02/2023	
LDW23-SS1804	23D0136-01	23050218.D	05/02/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLE0013

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLB0132-GPC2** **Printed: 5/2/2023 10:40:25AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 02	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
23D0136-03	A	LDW23-SS1803	A 01	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
BLD0325-BLK1	-	Blank	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BS1	-	LCS	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BSD1	-	LCS Dup	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MS1	-	Matrix Spike	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	5/2/2023	NRB	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0014	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1803	23D0136-03	23050219.D	05/02/2023	
Matrix Spike Dup	BLD0325-MSD1	23050217.D	05/02/2023	
LDW23-SS1804	23D0136-01	23050218.D	05/02/2023	
Blank	BLD0325-BLK1	23050213.D	05/02/2023	
LCS	BLD0325-BS1	23050214.D	05/02/2023	
Matrix Spike	BLD0325-MS1	23050216.D	05/02/2023	
LCS Dup	BLD0325-BSD1	23050215.D	05/02/2023	

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CLEANUP BENCH SHEET

CLE0014

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 5/2/2023 10:40:57AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 02	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
23D0136-03	A	LDW23-SS1803	A 01	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
BLD0325-BLK1	-	Blank	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BS1	-	LCS	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BSD1	-	LCS Dup	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MS1	-	Matrix Spike	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	5/2/2023	NRB	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0015	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS	BLD0325-BS1	23050214.D	05/02/2023	
Blank	BLD0325-BLK1	23050213.D	05/02/2023	
LDW23-SS1803	23D0136-03	23050219.D	05/02/2023	
LCS Dup	BLD0325-BSD1	23050215.D	05/02/2023	
Matrix Spike	BLD0325-MS1	23050216.D	05/02/2023	
Matrix Spike Dup	BLD0325-MSD1	23050217.D	05/02/2023	
LDW23-SS1804	23D0136-01	23050218.D	05/02/2023	

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CLEANUP BENCH SHEET

CLE0015

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 5/2/2023 10:41:25AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 02	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
23D0136-03	A	LDW23-SS1803	A 01	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
BLD0325-BLK1	-	Blank	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BS1	-	LCS	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BSD1	-	LCS Dup	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MS1	-	Matrix Spike	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	5/2/2023	NRB	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0016	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050218.D	05/02/2023	
Matrix Spike	BLD0325-MS1	23050216.D	05/02/2023	
LDW23-SS1803	23D0136-03	23050219.D	05/02/2023	
Blank	BLD0325-BLK1	23050213.D	05/02/2023	
Matrix Spike Dup	BLD0325-MSD1	23050217.D	05/02/2023	
LCS	BLD0325-BS1	23050214.D	05/02/2023	
LCS Dup	BLD0325-BSD1	23050215.D	05/02/2023	

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CLEANUP BENCH SHEET

CLE0016

Matrix: Solid **Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL** **Printed: 5/2/2023 10:41:51AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 02	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
23D0136-03	A	LDW23-SS1803	A 01	2.5	2.5	8081B Pest (PSDDA)	5/2/2023	NRB	
BLD0325-BLK1	-	Blank	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BS1	-	LCS	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-BSD1	-	LCS Dup	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MS1	-	Matrix Spike	-	2.5	2.5	-	5/2/2023	NRB	
BLD0325-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	5/2/2023	NRB	

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Form I

METHOD BLANK DATA SHEET

EPA 8081B

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0325-BLK1	File ID:	23050213.D
Sampled:	N/A	Prepared:	04/18/23 11:06	Analyzed:	05/02/23 17:06
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLD0325	Sequence:	SLE0106	Calibration:	GD00035
Instrument:	ECD6	Column:	STX-CLP	Cleanups:	GPC, Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
118-74-1	Hexachlorobenzene	1	0.50	U	0.15	0.50

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	4.73	59.2	30 - 160	
Decachlorobiphenyl [2C]	8.0000	5.79	72.3	30 - 160	
Tetrachlorometaxylene	8.0000	3.84	48.0	30 - 160	
Tetrachlorometaxylene [2C]	8.0000	4.25	53.1	30 - 160	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050213.D
Data file 2: /20230502.b/B20230502.b/23050213.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0325-BLK1
Client ID:
Injection Date: 02-MAY-2023 17:06
Report Date: 05/05/2023 15:04
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
----			----			0.00	0.00	---	Hexachlorobenzene
3.812	-0.007	186605	4.128	-0.008	187513	19.20	21.25	10.1	Tetrachloro-m-xylene M
9.358	-0.008	112351	10.297	-0.009	110102	23.67	28.93	20.0	Decachlorobiphenyl N

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	694640	-25.5
Hexabromobiphenyl	745426	402432	-46.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	641715	-48.6
Hexabromobiphenyl	754634	315265	-58.2 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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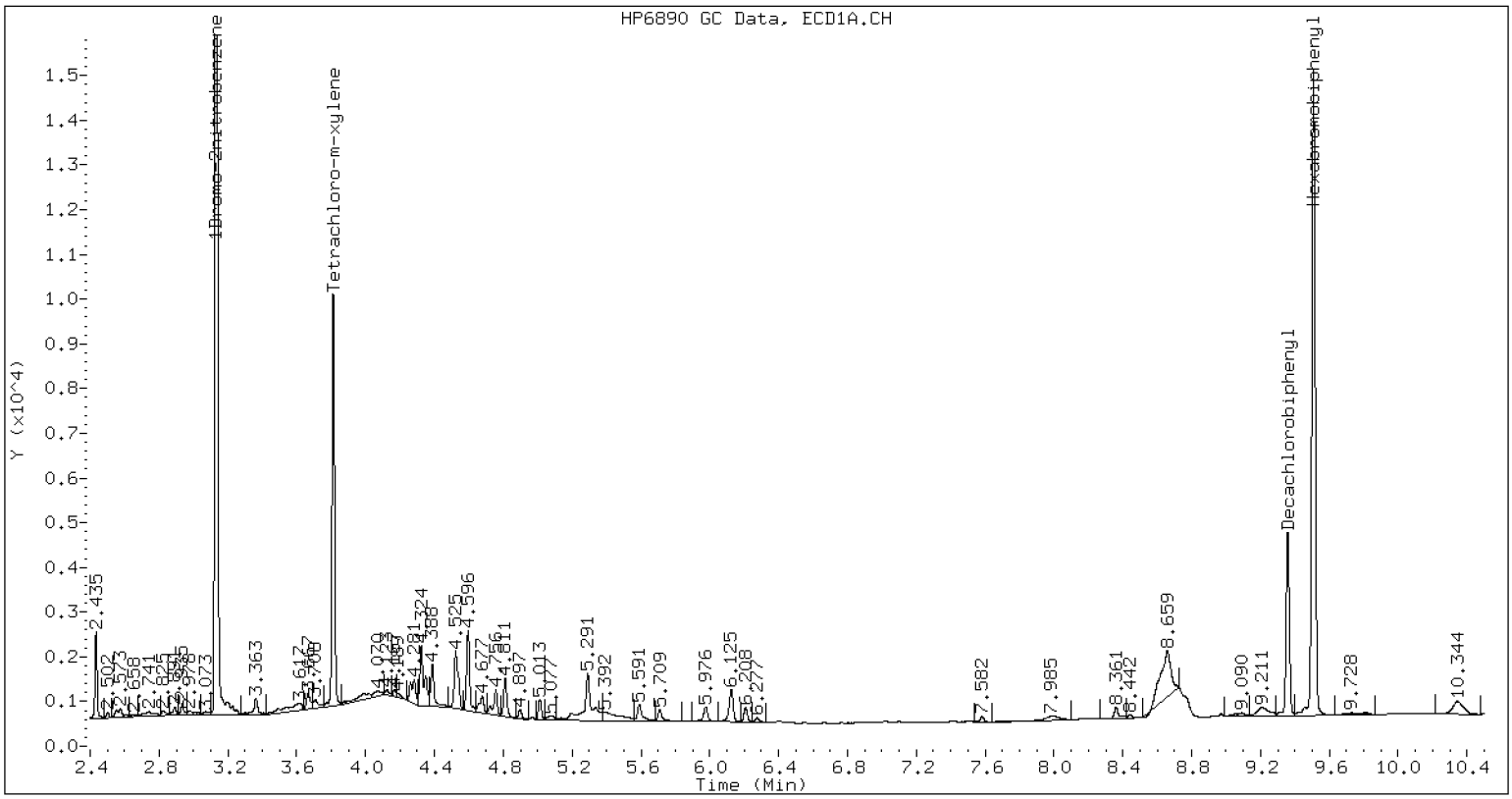

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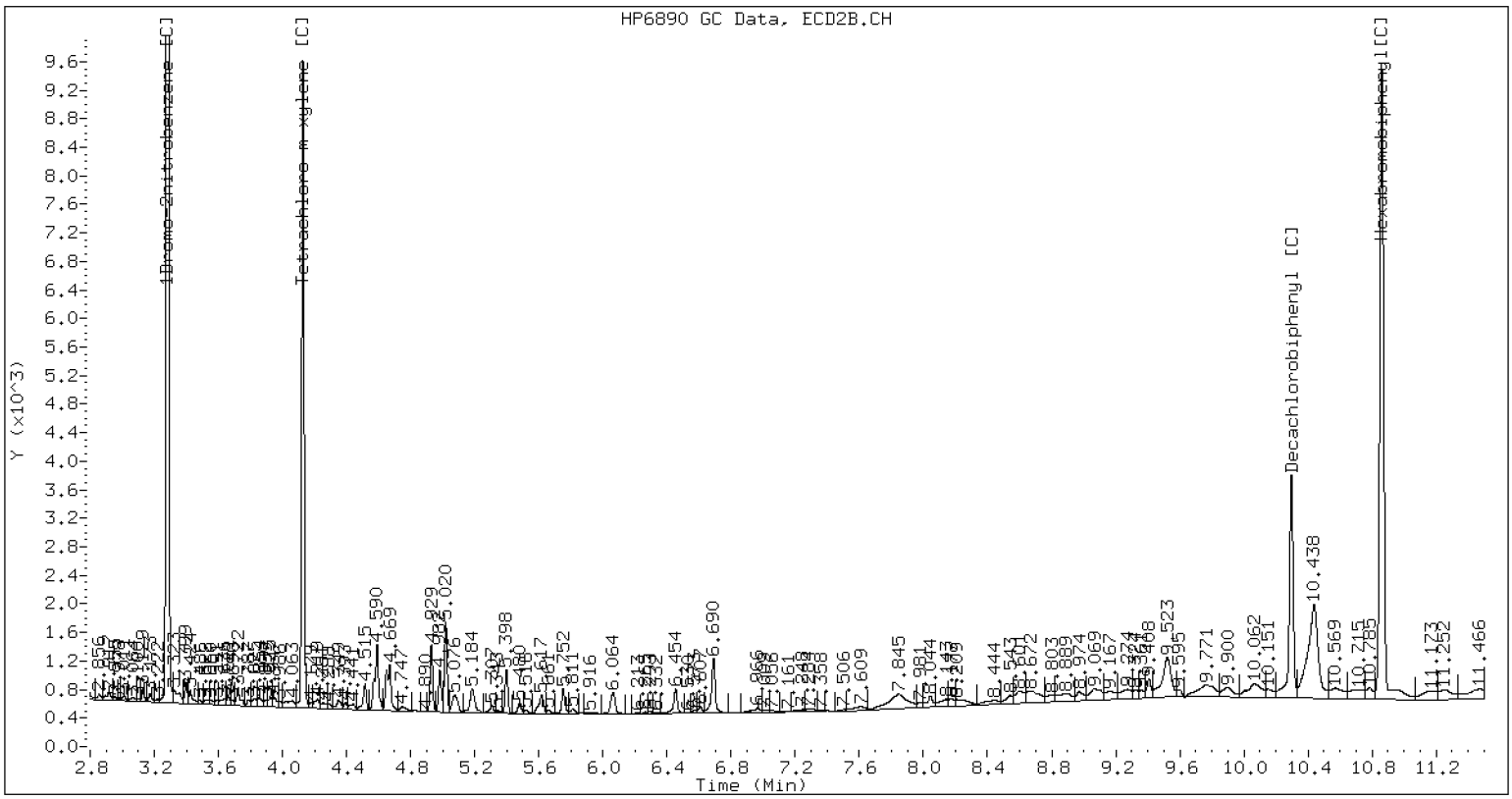
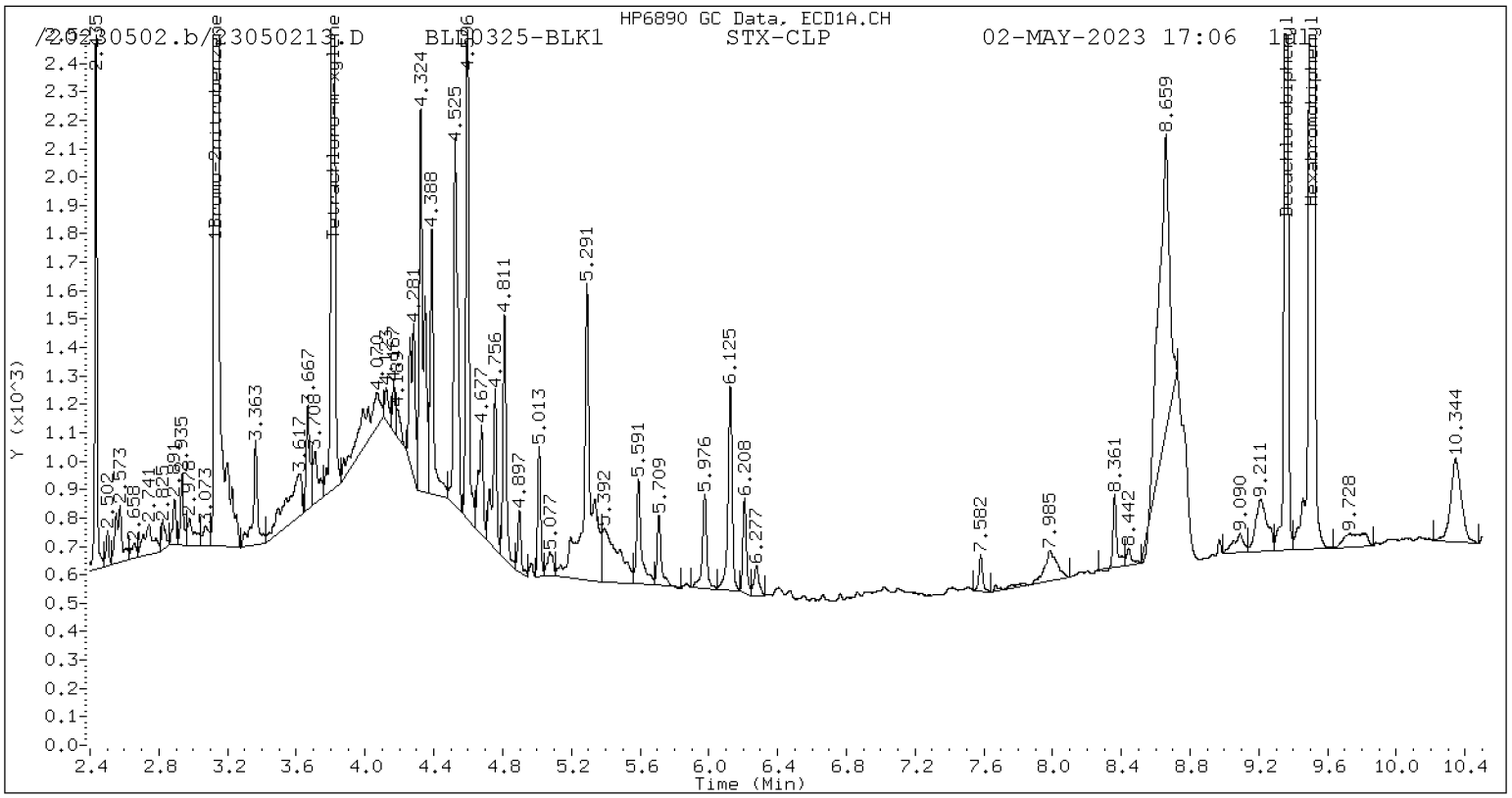
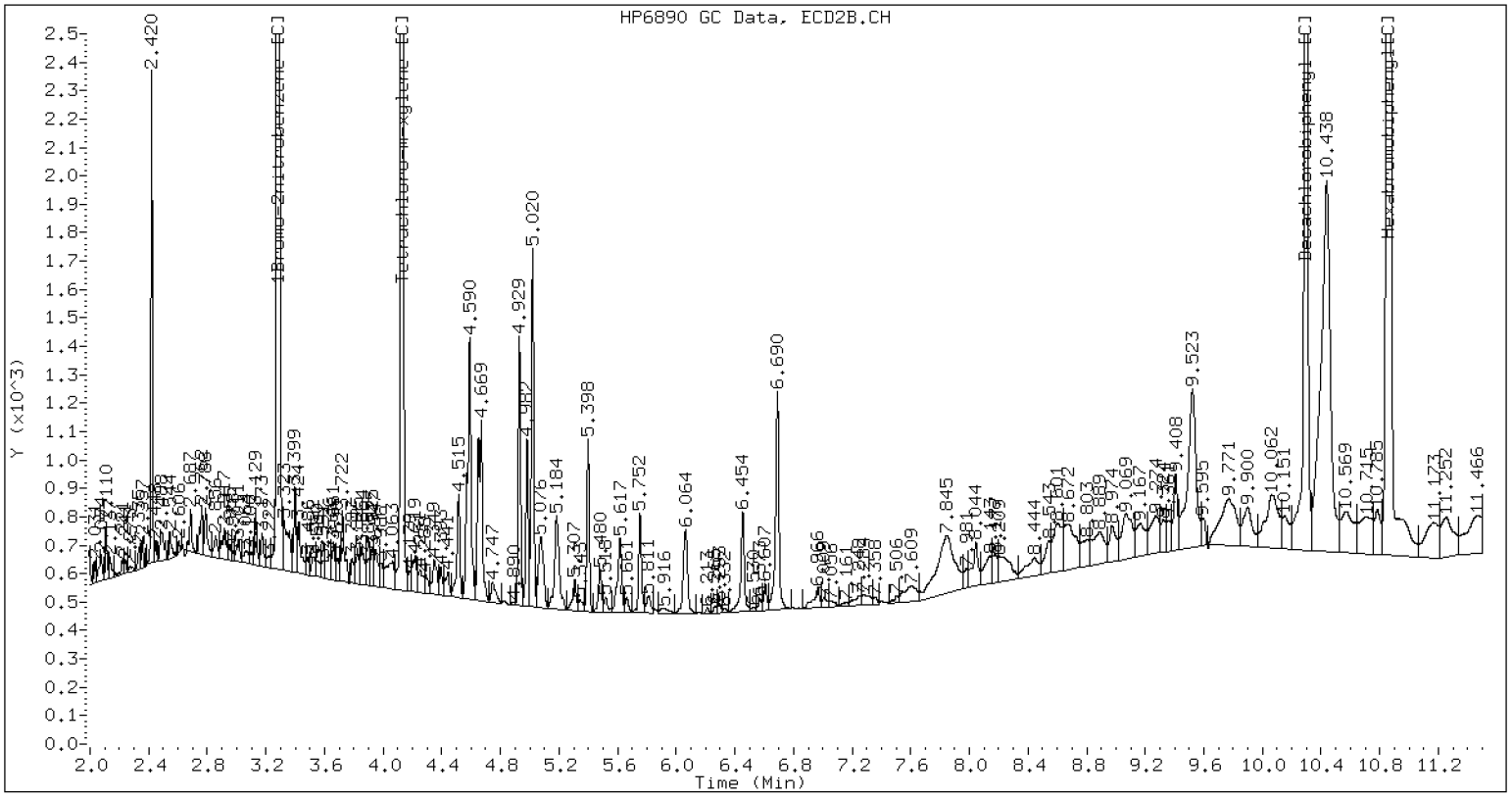


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

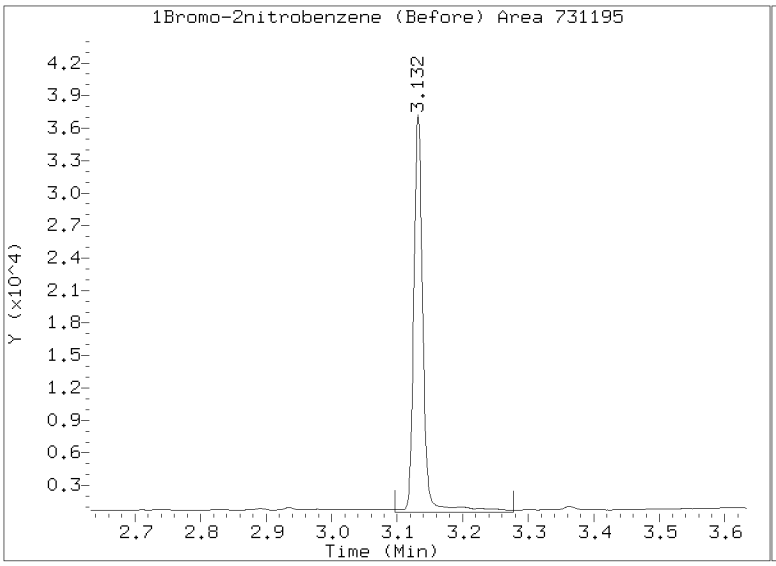
/20230502.b/B20230502.b/23050213.D BLD0325-BLK1 CLP2

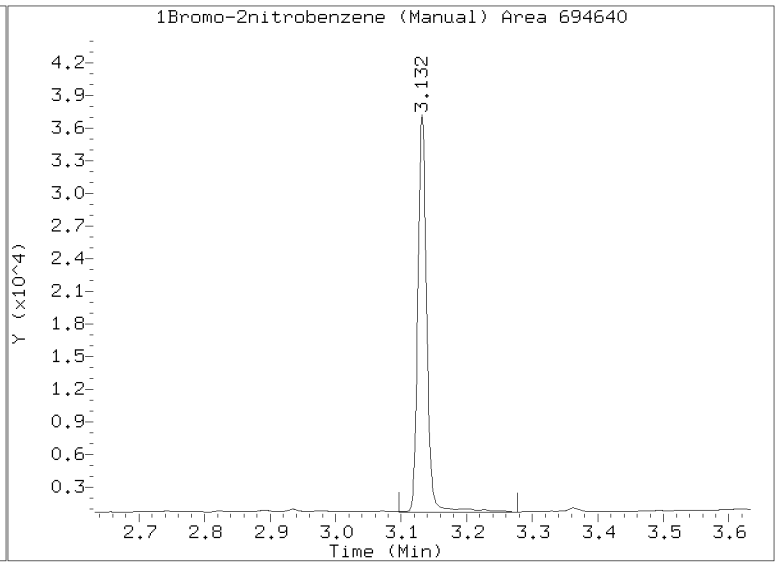


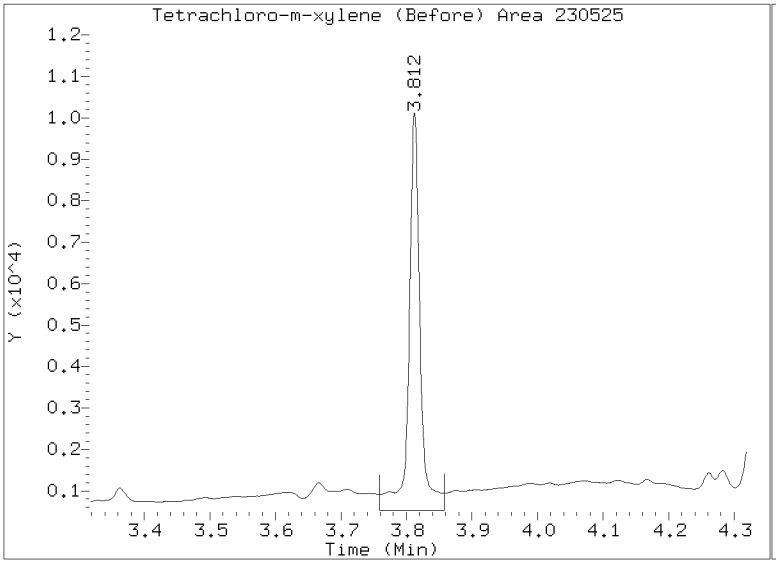
CLP-2 Manual Integration: YES

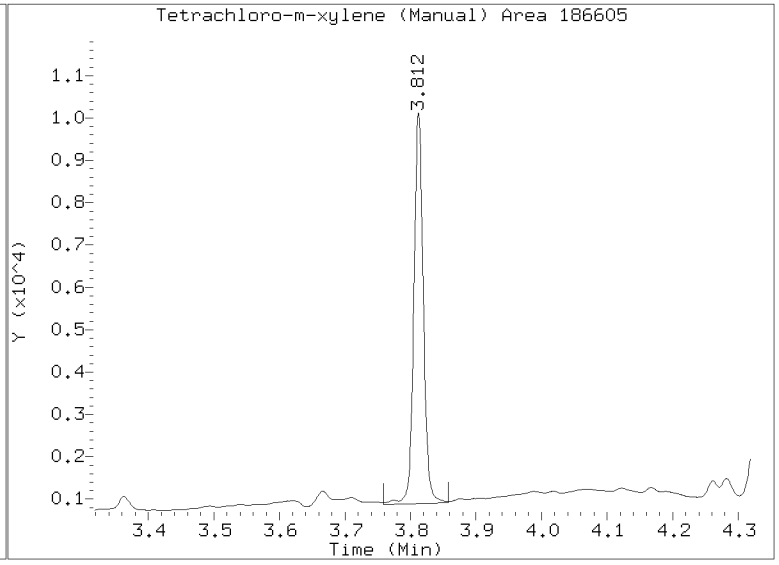
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230502.b/23050213.D
Injection Date: 02-MAY-2023 17:06
Lab ID:BLD0325-BLK1 Client ID:
Report Date: 05/05/2023 15:04



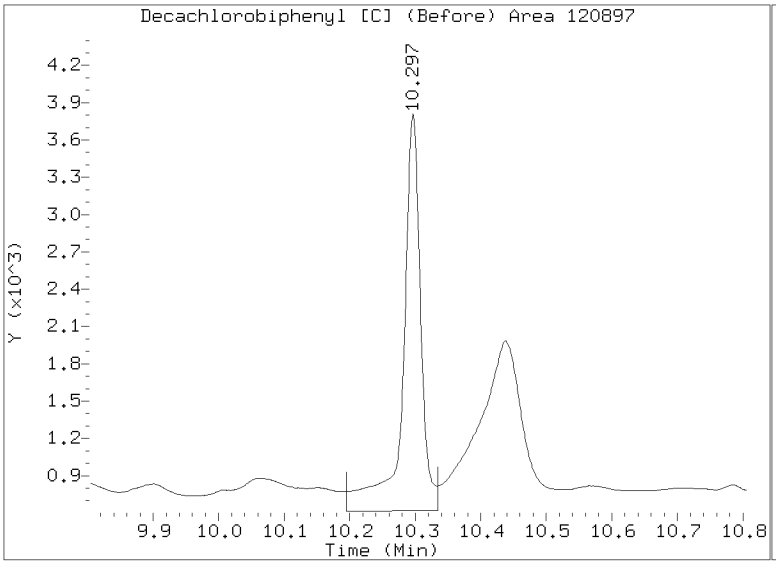


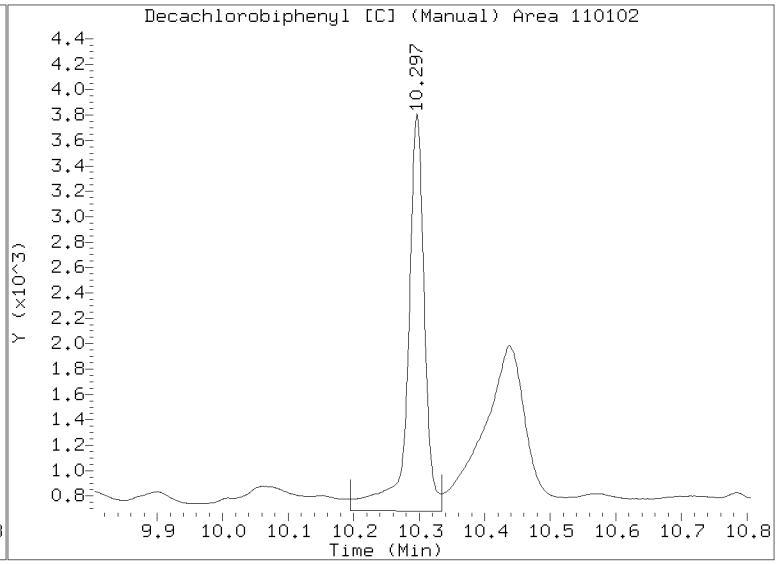


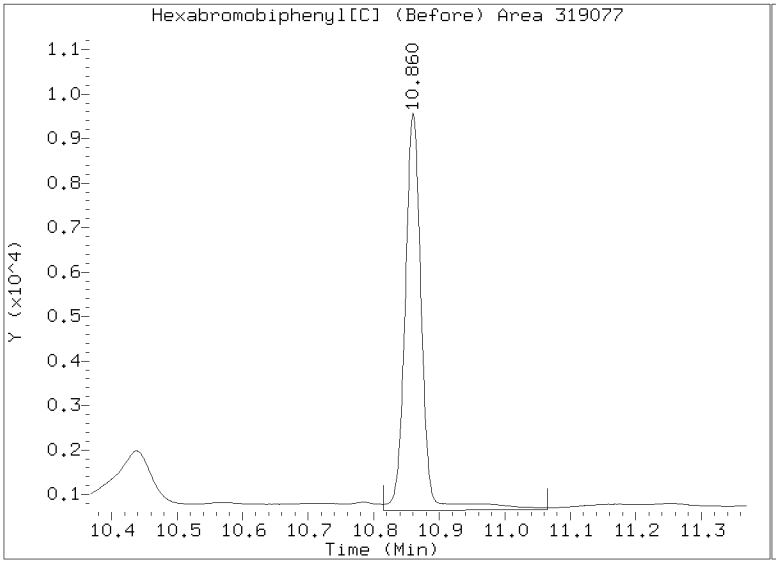


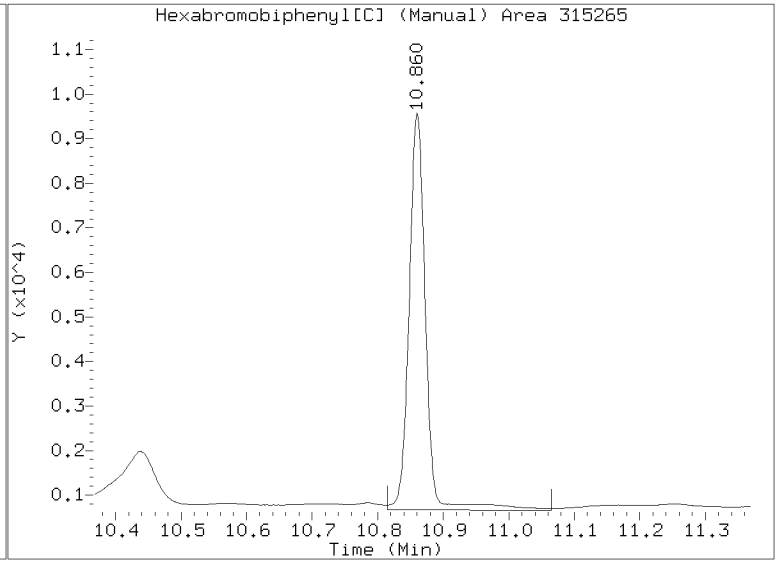
Manual Peak Adjustment Report, CLP-2

Datafile: /20230502.b/B20230502.b/23050213.D
Injection Date: 02-MAY-2023 17:06
Lab ID:BLD0325-BLK1 Client ID:









LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 17:25
Batch:	BLD0325	Laboratory ID:	BLD0325-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	2.12		53.0	26 - 128

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	4.00	2.36		59.0	10.6	30	26 - 128

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050214.D
Data file 2: /20230502.b/B20230502.b/23050214.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD03259-BS1
Client ID:
Injection Date: 02-MAY-2023 17:25
Report Date: 05/05/2023 15:14
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.325	-0.008	163429	4.752	-0.010	160292	10.45	10.58	1.3	alpha-BHC
4.710	-0.007	72795	5.220	-0.011	68044	11.65	11.31	3.0	beta-BHC
4.893	-0.008	167425	5.566	-0.011	144485	11.82	10.72	9.8	delta-BHC
4.629	-0.008	158742	5.141	-0.011	143769	11.55	10.80	6.7	gamma-BHC (Lindane)
5.116	-0.008	155187	5.660	-0.011	116437	12.20	9.97	20.1	Heptachlor
5.440	-0.008	141411	6.058	-0.013	110787	10.93	9.14	17.8	Aldrin
6.116	-0.009	136116	6.717	-0.012	108399	11.65	10.16	13.7	Heptachlor epoxide b
6.558	-0.009	183349	7.161	-0.011	142302	17.61	15.65	11.7	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
6.480	-0.009	233480	7.246	-0.011	179903	22.47	18.97	16.9	4,4'-DDE
----			7.787	-0.003	1937	0.00	0.29	---	Endrin
7.305	-0.009	77942	7.989	-0.012	50258	11.53	8.08	35.2	Endosulfan II
7.127	-0.009	201869	7.851	-0.011	143584	31.15	23.86	26.5	4,4'-DDD
8.168	-0.009	137317	8.588	-0.010	112856	21.54	19.71	8.9	Endosulfan sulfate
7.422	-0.009	203672	8.171	-0.010	151673	29.18	24.98	15.5	4,4'-DDT
7.911	-0.009	24167	8.811	-0.011	24094	8.08	9.25	13.5	Methoxychlor
8.443	-0.009	143177	9.110	-0.009	114911	19.69	18.37	6.9	Endrin ketone
7.737	-0.006	3959	8.321	-0.010	8061	0.77	1.79	80.1*	Endrin aldehyde
6.257	-0.009	130925	6.928	-0.011	96026	11.45	9.39	19.8	trans-Chlordane
6.405	-0.008	121084	7.088	-0.012	90193	10.55	8.95	16.4	cis-Chlordane
2.304	-0.005	159111	2.448	-0.005	128093	9.86	9.32	5.7	Hexachlorobutadiene
4.167	-0.008	146840	4.613	-0.009	134899	10.61	10.20	3.9	Hexachlorobenzene
3.812	-0.007	235957	4.127	-0.009	221845	23.57	22.60	4.2	Tetrachloro-m-xylene
9.358	-0.008	117376	10.296	-0.010	113002	23.82	28.62	18.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

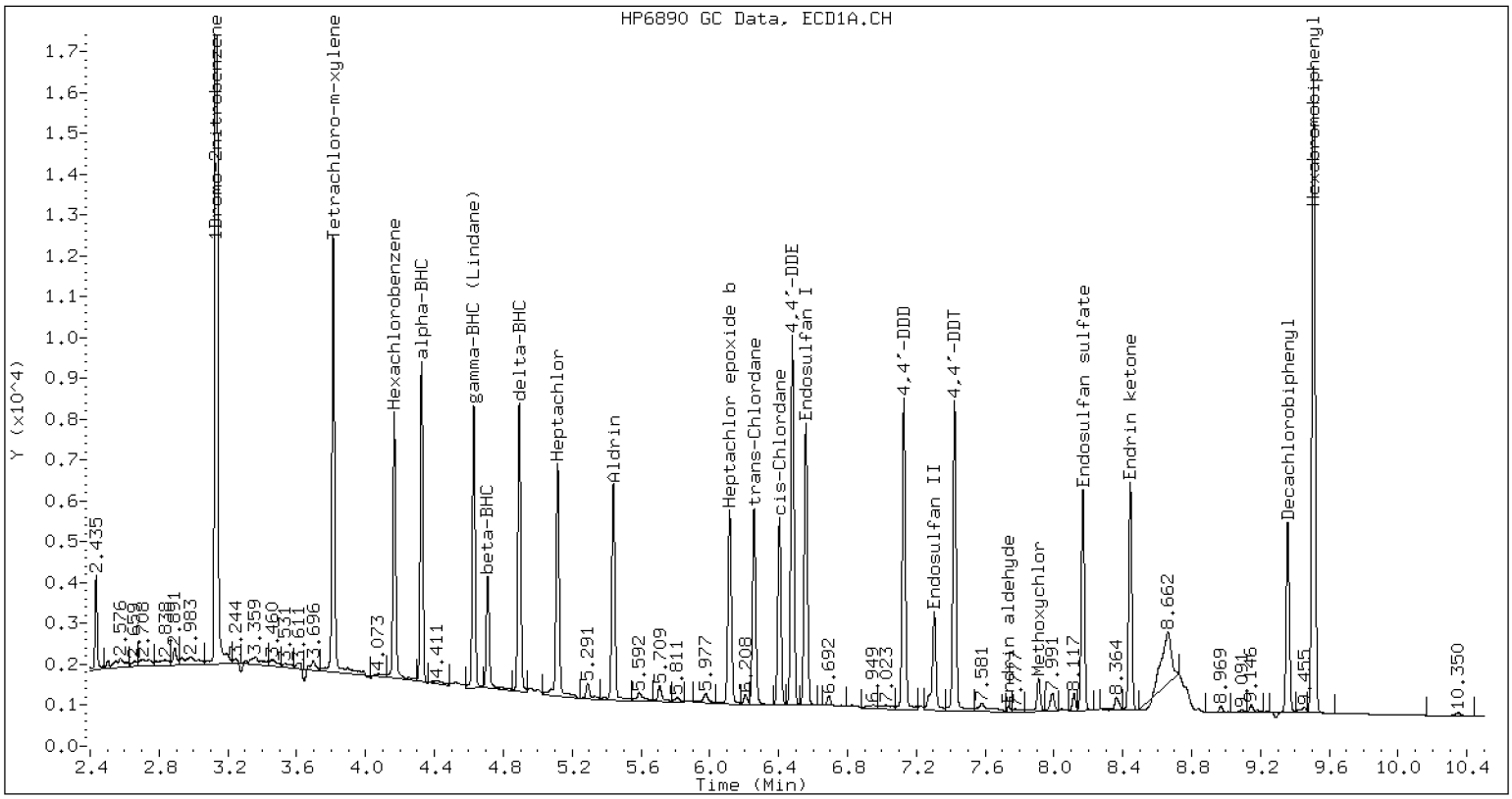
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	715431	-23.3
Hexabromobiphenyl	745426	417768	-44.0

Column 2

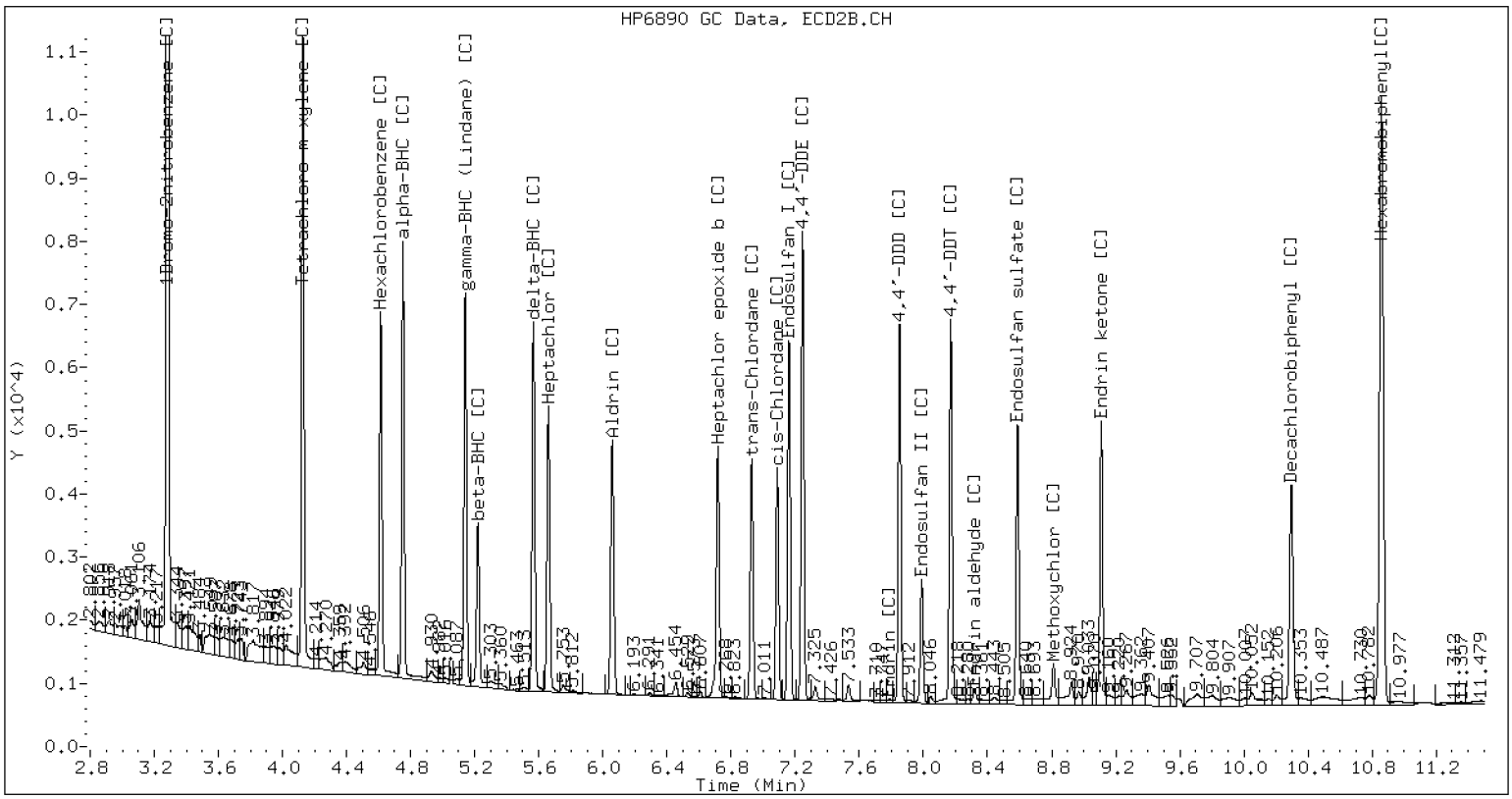
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	713832	-42.8
Hexabromobiphenyl	754634	327100	-56.7 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

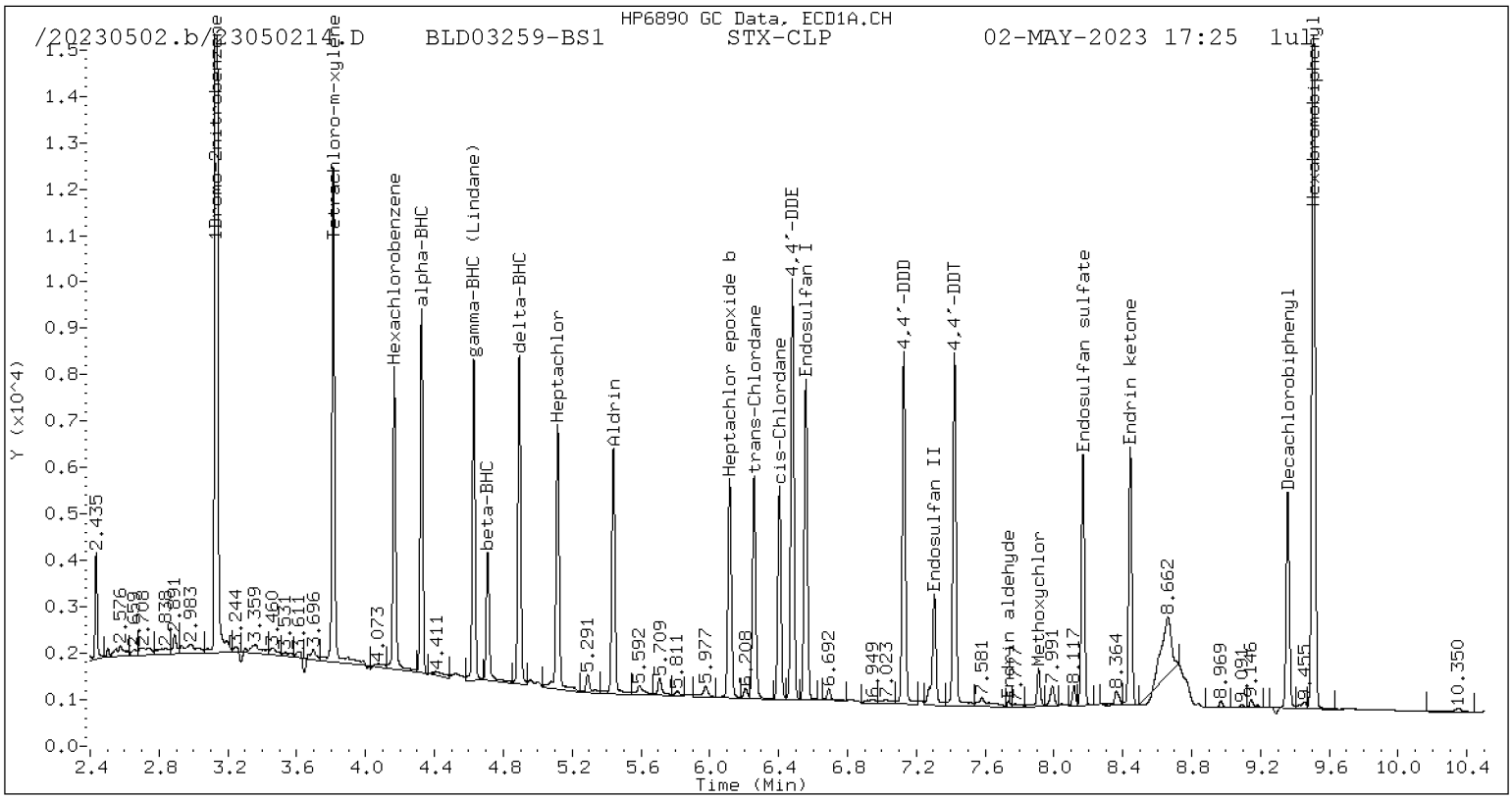
/20230502.b/23050214.D BLD03259-BS1 STX-CLP 02-MAY-2023 17:25 1ul



/20230502.b/B20230502.b/23050214.D BLD03259-BS1 CLP2 02-MAY-2023 17:25 1ul

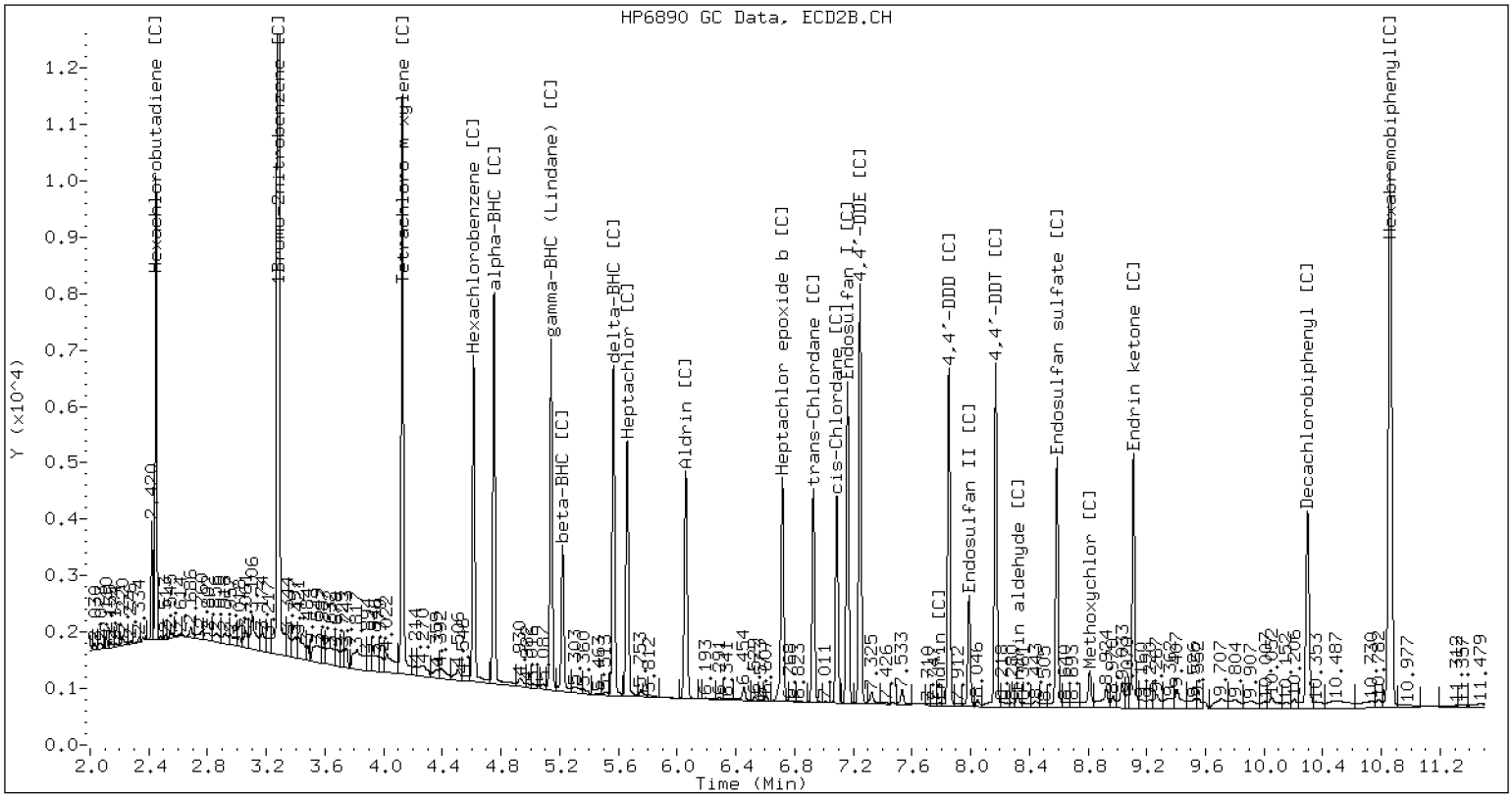


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

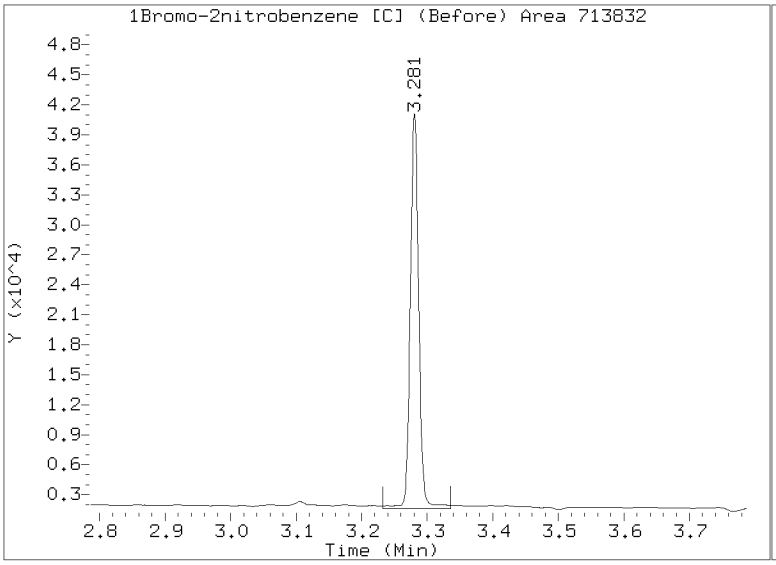
/20230502.b/B20230502.b/23050214.D BLD03259-BS1 CLP2

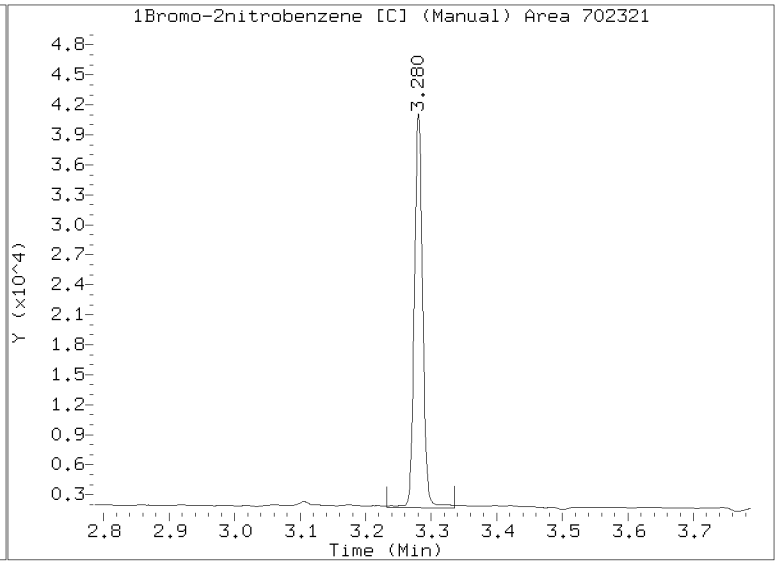


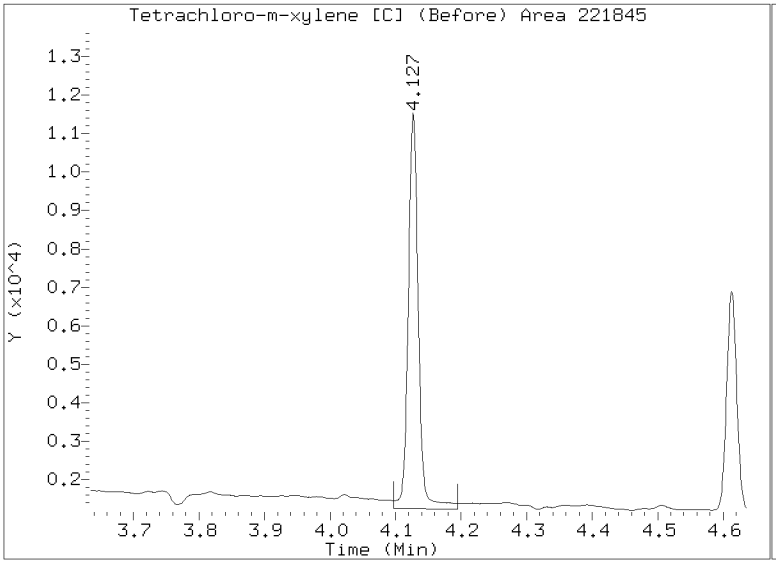
CLP-2 Manual Integration: NO

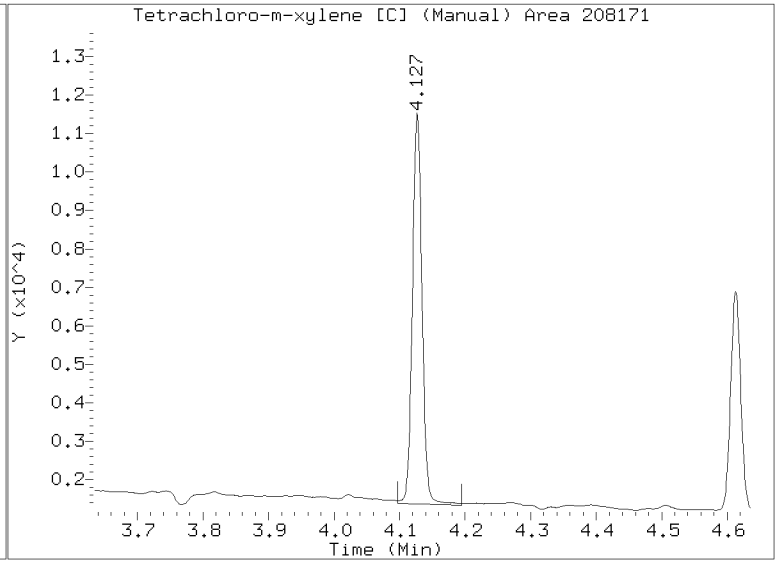
Manual Peak Adjustment Report, CLP-2

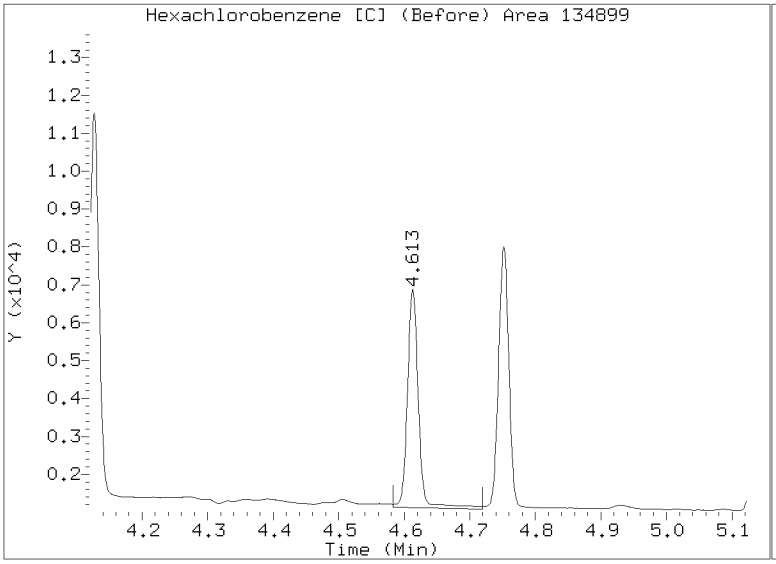
Datafile: /20230502.b/B20230502.b/23050214.D
Injection Date: 02-MAY-2023 17:25
Lab ID:BLD0299-BS1 Client ID:

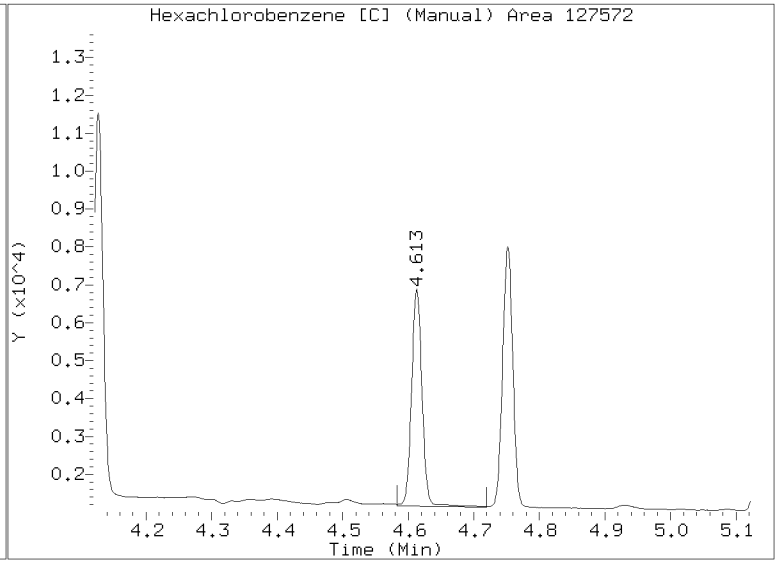












Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050215.D
Data file 2: /20230502.b/B20230502.b/23050215.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0325-BSD1
Client ID:
Injection Date: 02-MAY-2023 17:43
Report Date: 05/05/2023 15:14
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.325	-0.008	181387	4.752	-0.010	178399	11.79	11.86	0.6	alpha-BHC
4.709	-0.008	75262	5.219	-0.011	75131	12.25	12.57	2.6	beta-BHC
4.893	-0.008	174777	5.566	-0.011	150819	12.55	11.26	10.8	delta-BHC
4.629	-0.008	157968	5.140	-0.012	155820	11.68	11.78	0.8	gamma-BHC (Lindane)
5.116	-0.008	163909	5.660	-0.011	128727	13.10	11.10	16.5	Heptachlor
5.440	-0.008	155707	6.058	-0.013	121653	12.23	10.10	19.1	Aldrin
6.115	-0.010	138657	6.717	-0.012	111477	12.07	10.52	13.7	Heptachlor epoxide b
6.558	-0.009	199056	7.161	-0.011	158158	19.43	17.51	10.4	Endosulfan I
----			7.464	-0.002	415	0.00	0.04	---	Dieldrin
6.480	-0.009	253717	7.246	-0.011	199129	24.83	21.13	16.1	4,4'-DDE
----			7.787	-0.003	1730	0.00	0.26	---	Endrin
7.304	-0.010	69035	7.989	-0.012	43138	9.46	6.79	32.8	Endosulfan II
7.128	-0.008	202801	7.852	-0.010	158411	28.98	25.78	11.7	4,4'-DDD
8.168	-0.009	148018	8.588	-0.010	116064	21.51	19.85	8.0	Endosulfan sulfate
7.422	-0.009	213554	8.170	-0.011	157995	28.34	25.48	10.6	4,4'-DDT
7.911	-0.009	18158	8.811	-0.011	21087	5.62	7.93	34.0	Methoxychlor
8.443	-0.009	149123	9.109	-0.010	112897	18.99	17.68	7.2	Endrin ketone
7.734	-0.009	4134	8.321	-0.010	7772	0.74	1.69	78.1*	Endrin aldehyde
6.257	-0.009	132575	6.928	-0.011	108077	11.79	10.63	10.3	trans-Chlordane
6.404	-0.009	130735	7.088	-0.012	105438	11.58	10.53	9.5	cis-Chlordane
2.304	-0.005	173914	2.448	-0.005	123755	10.96	9.06	19.0	Hexachlorobutadiene
4.167	-0.008	160537	4.612	-0.010	134166	11.79	10.21	14.4	Hexachlorobenzene
3.813	-0.006	223812	4.128	-0.008	236393	22.73	24.24	6.4	Tetrachloro-m-xylene
9.358	-0.008	127850	10.297	-0.009	113219	24.03	28.08	15.6	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

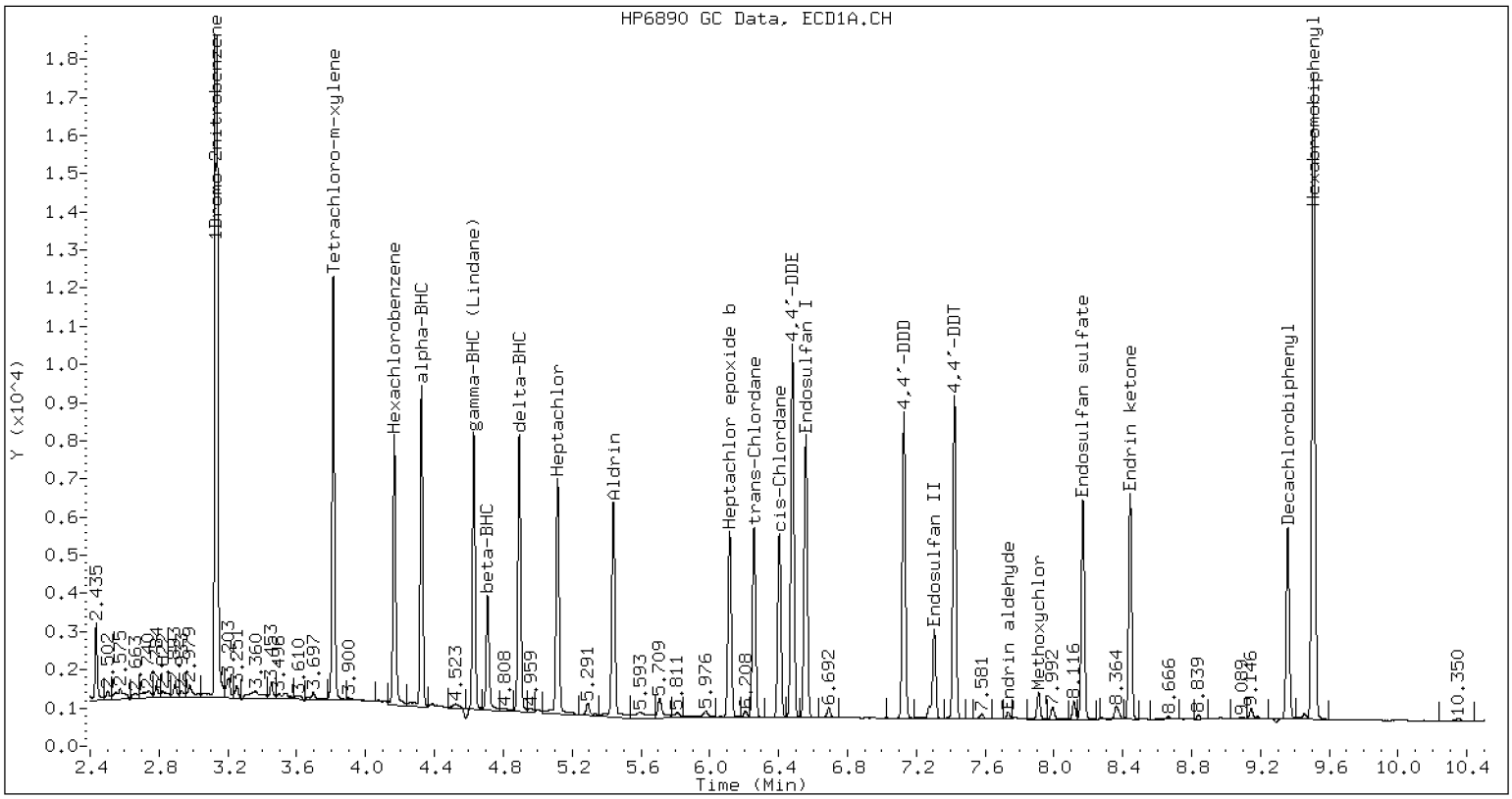
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	703657	-24.6
Hexabromobiphenyl	745426	451092	-39.5

Column 2

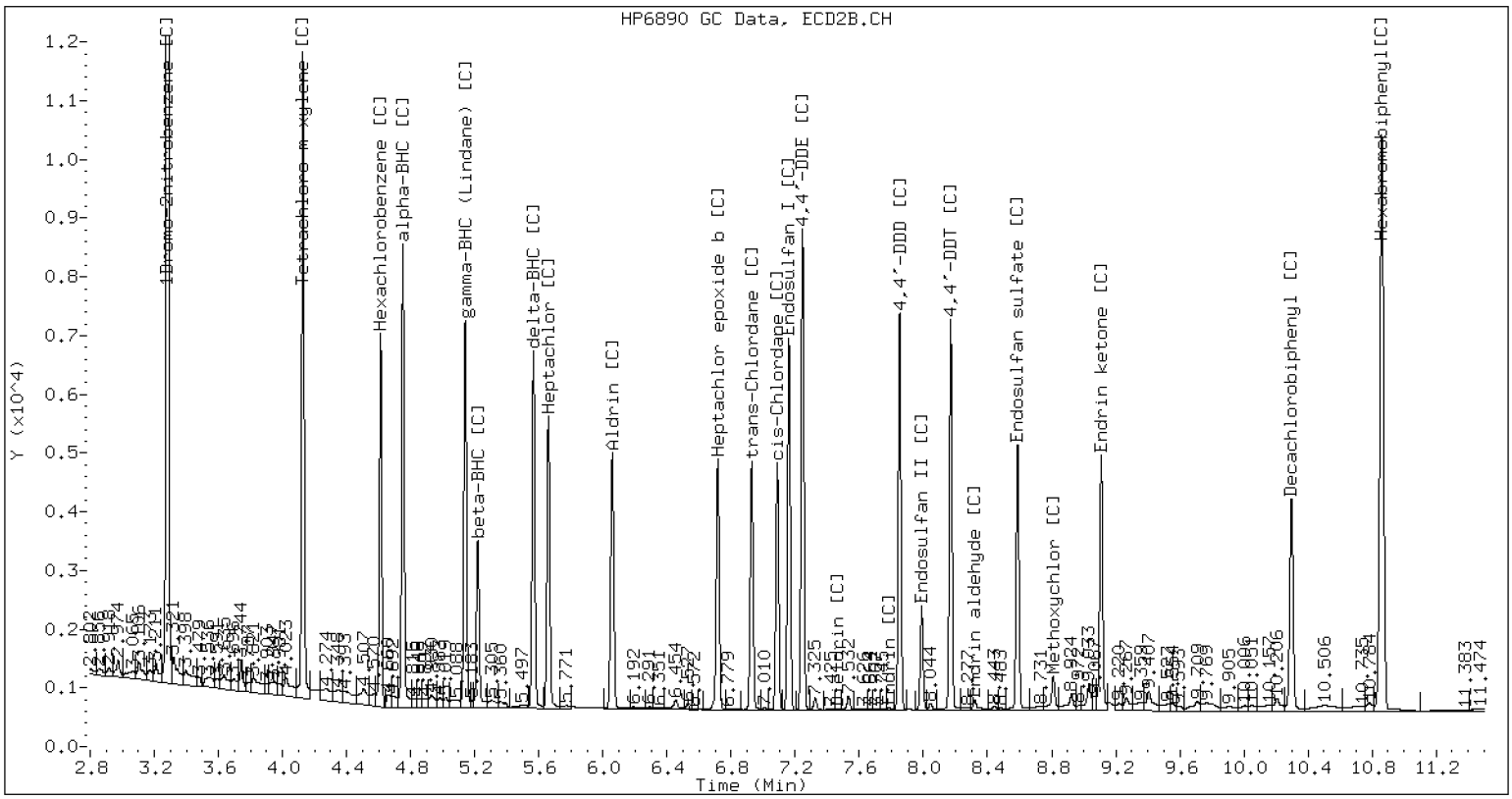
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	709244	-43.2
Hexabromobiphenyl	754634	334037	-55.7 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

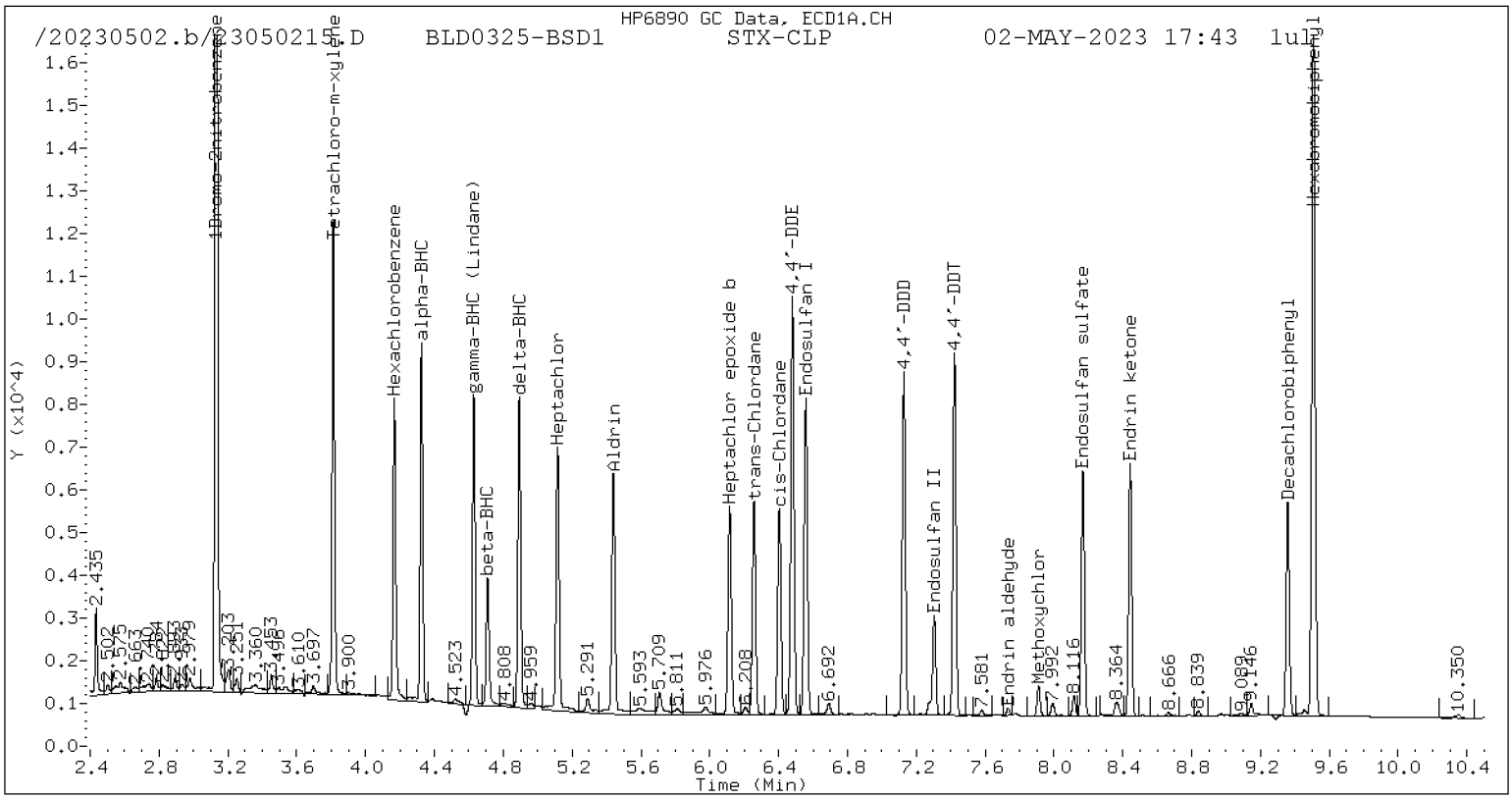
/20230502.b/23050215.D BLD0325-BSD1 STX-CLP 02-MAY-2023 17:43 1ul



/20230502.b/B20230502.b/23050215.D BLD0325-BSD1 CLP2 02-MAY-2023 17:43 1ul

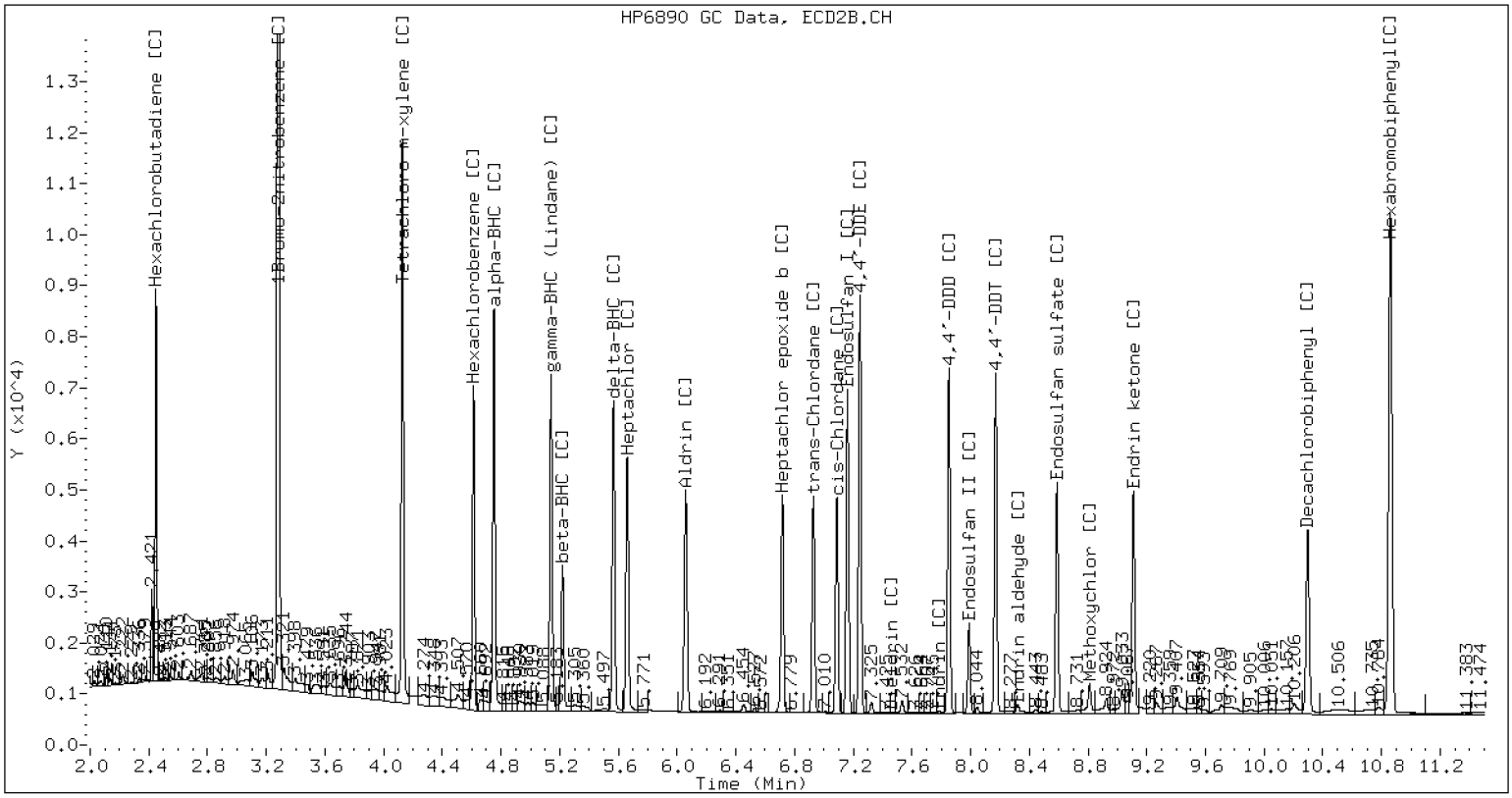


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230502.b/B20230502.b/23050215.D BLD0325-BSD1 CLP2



CLP-2 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 18:02
Batch:	BLD0325	Laboratory ID:	BLD0325-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	25.33 g / 2.5 mL	Source Sample:	LDW23-SS1804

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	ND	U	2.53		63.3	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 18:21
Batch:	BLD0325	Laboratory ID:	BLD0325-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	25.33 g / 2.5 mL	Source Sample:	LDW23-SS1804

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	4.00	2.63		65.8	3.57	30	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050216.D
Data file 2: /20230502.b/B20230502.b/23050216.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0325-MS1
Client ID:
Injection Date: 02-MAY-2023 18:02
Report Date: 05/05/2023 15:14
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.324	-0.009	183600	4.751	-0.011	143861	11.98	9.60	22.1	alpha-BHC
4.709	-0.008	63692	5.219	-0.011	65564	10.40	11.01	5.7	beta-BHC
4.892	-0.009	215911	5.566	-0.011	120941	15.56	9.06	52.7*	delta-BHC
4.628	-0.009	178426	5.141	-0.011	123635	13.24	9.38	34.2	gamma-BHC (Lindane)
5.115	-0.009	138118	5.660	-0.011	128792	11.08	11.14	0.6	Heptachlor
5.441	-0.007	168006	6.058	-0.013	135688	13.25	11.31	15.8	Aldrin
6.114	-0.011	127797	6.703	-0.026	198309	11.16	18.78	50.9*	Heptachlor epoxide b
6.558	-0.009	159024	7.161	-0.011	135249	15.58	15.03	3.6	Endosulfan I
6.804	-0.024	89374	7.439	-0.027	37542	8.28	3.81	74.0*	Dieldrin
6.479	-0.010	328547	7.246	-0.011	243788	32.26	25.96	21.6	4,4'-DDE
----			7.811	0.021	109457	0.00	17.29	---	Endrin
7.304	-0.010	54773	7.981	-0.020	165584	8.25	27.69	108.2*	Endosulfan II
7.127	-0.009	375851	7.852	-0.010	176396	59.05	30.48	63.8*	4,4'-DDD
8.169	-0.008	126345	8.588	-0.010	102168	20.18	18.55	8.4	Endosulfan sulfate
7.421	-0.010	381168	8.174	-0.007	334407	55.60	57.27	3.0	4,4'-DDT
7.939	0.019	39851	8.849	0.027	13738	13.57	5.49	84.8*	Methoxychlor
8.443	-0.009	151146	9.112	-0.007	200553	21.16	33.35	44.7*	Endrin ketone
7.763	0.020	49634	8.317	-0.014	38133	9.79	8.82	10.5	Endrin aldehyde
6.257	-0.009	118382	6.929	-0.010	100100	10.57	9.88	6.7	trans-Chlordane
6.405	-0.008	162278	7.089	-0.011	98405	14.43	9.87	37.6	cis-Chlordane
2.304	-0.005	140102	2.448	-0.005	115005	8.86	8.45	4.7	Hexachlorobutadiene
4.167	-0.008	171785	4.612	-0.010	151422	12.66	11.57	9.1	Hexachlorobenzene
3.812	-0.007	221608	4.128	-0.008	213063	22.59	21.93	3.0	Tetrachloro-m-xylene
9.360	-0.006	130959	10.299	-0.007	107885	27.06	28.42	4.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

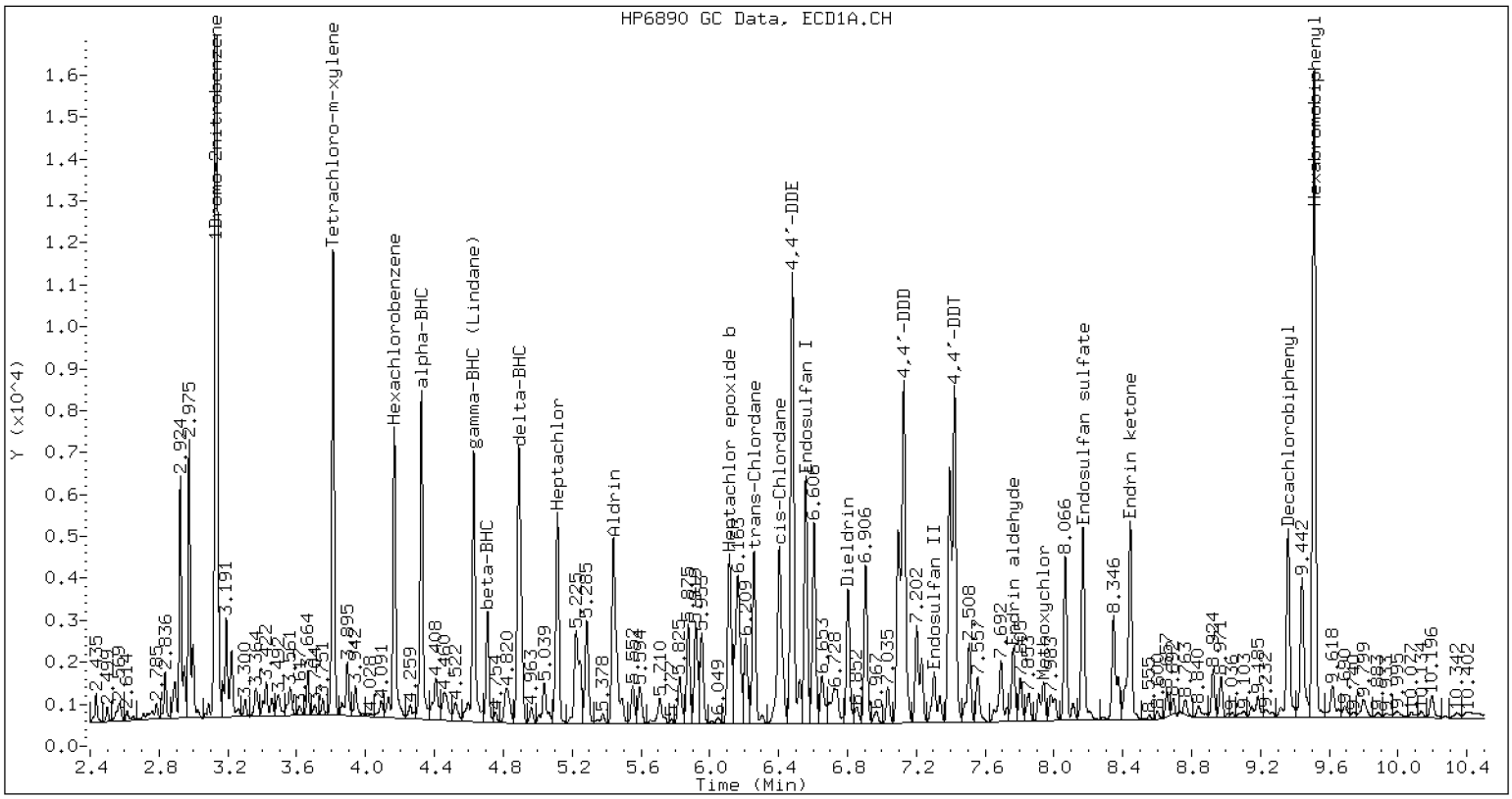
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	701102	-24.8
Hexabromobiphenyl	745426	410383	-44.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	706666	-43.4
Hexabromobiphenyl	754634	314558	-58.3 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230502.b/23050216.D BLD0325-MS1 STX-CLP 02-MAY-2023 18:02 1ul



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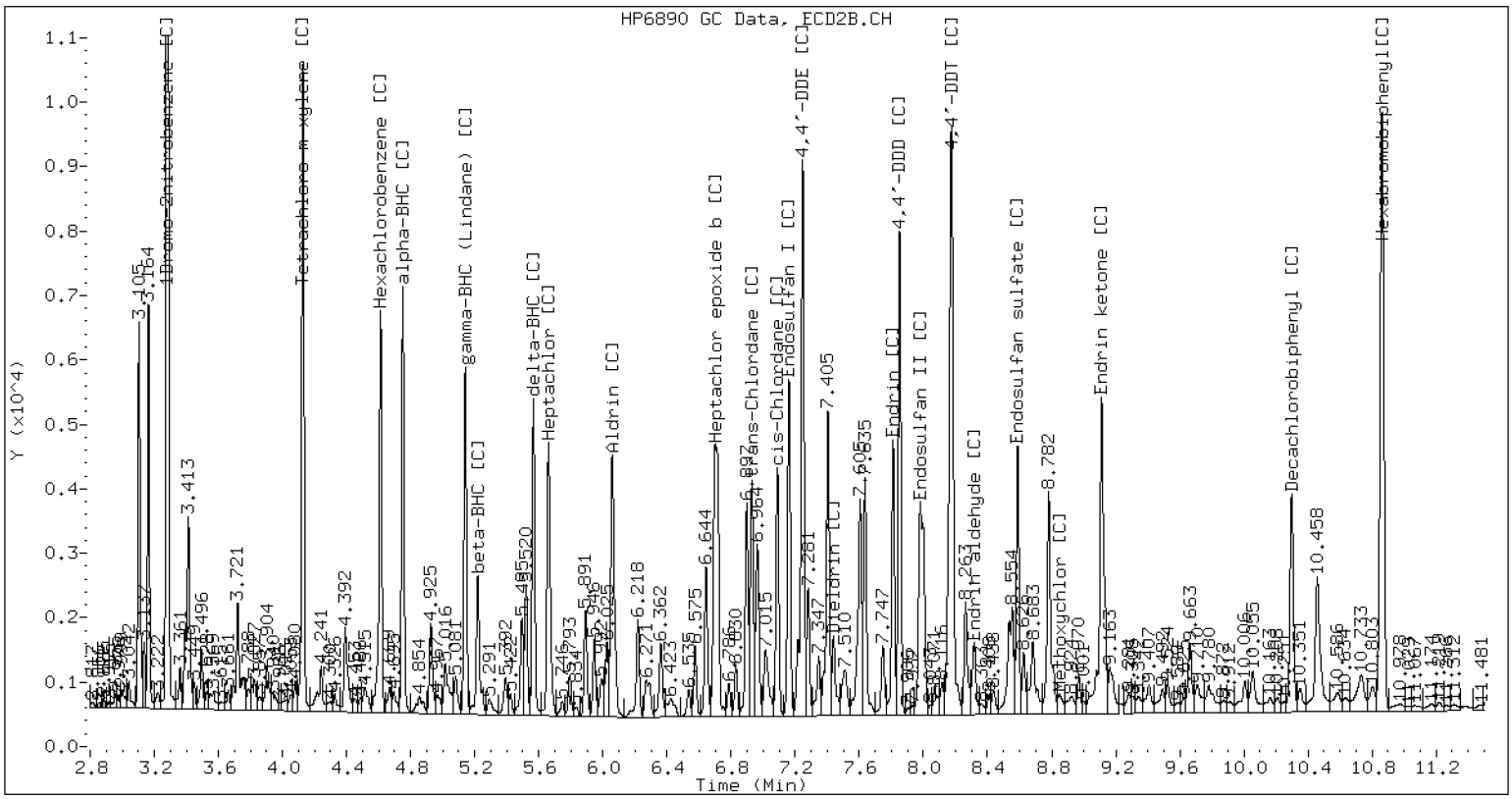
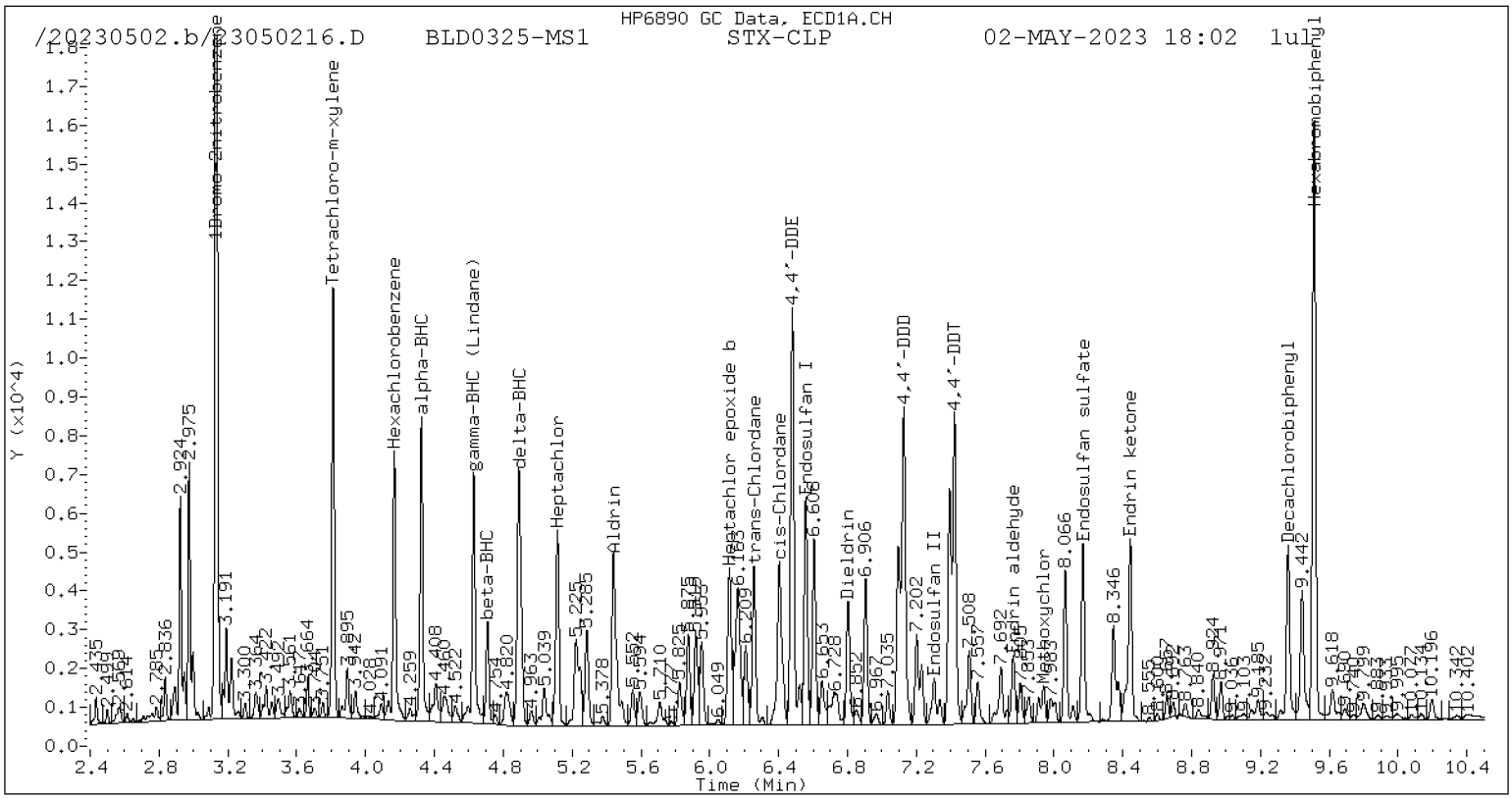


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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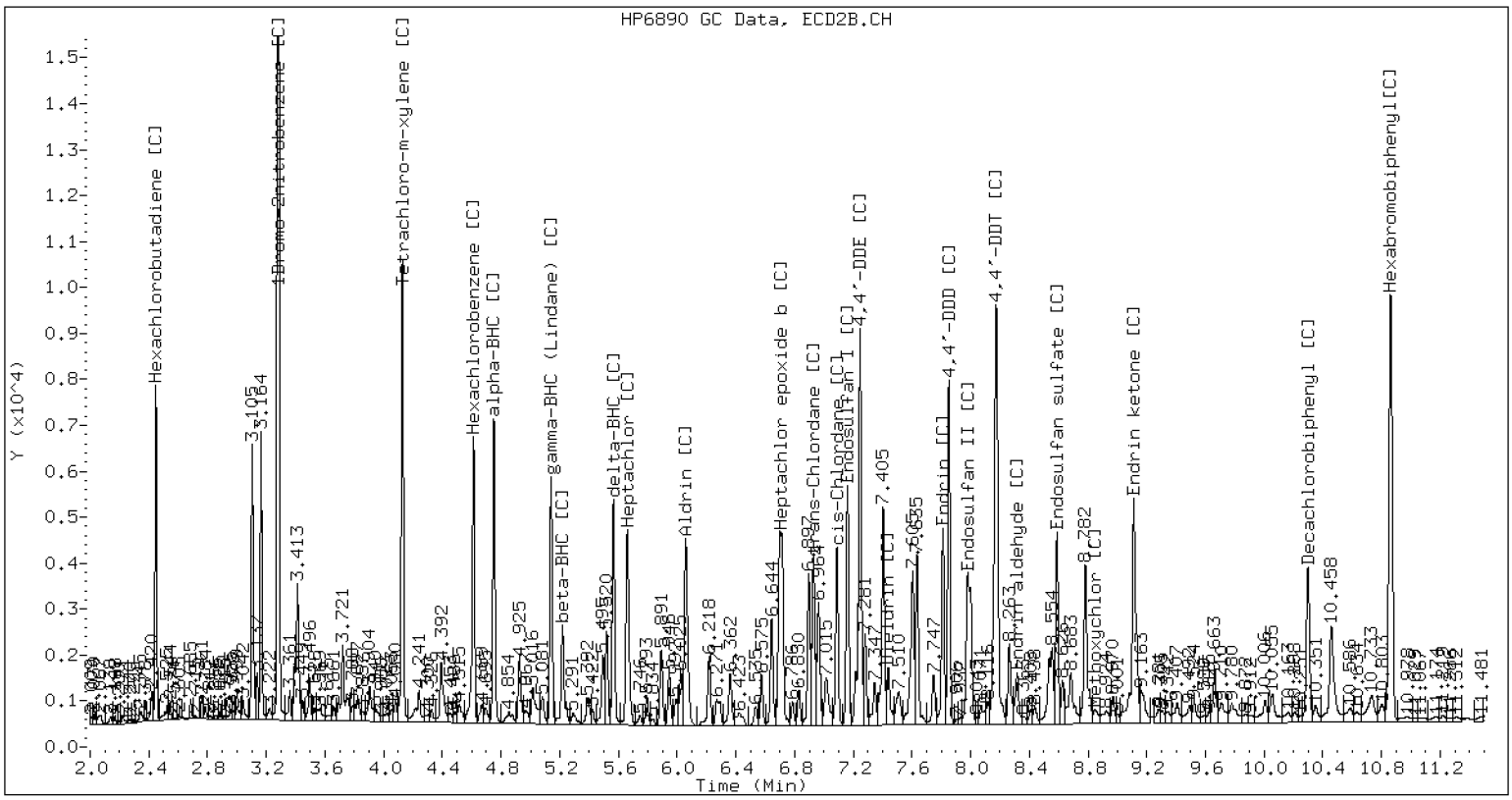

CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

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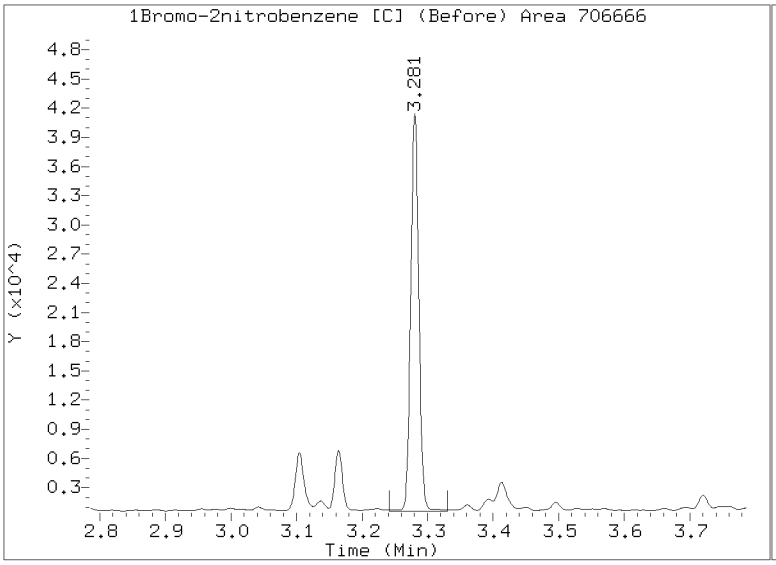
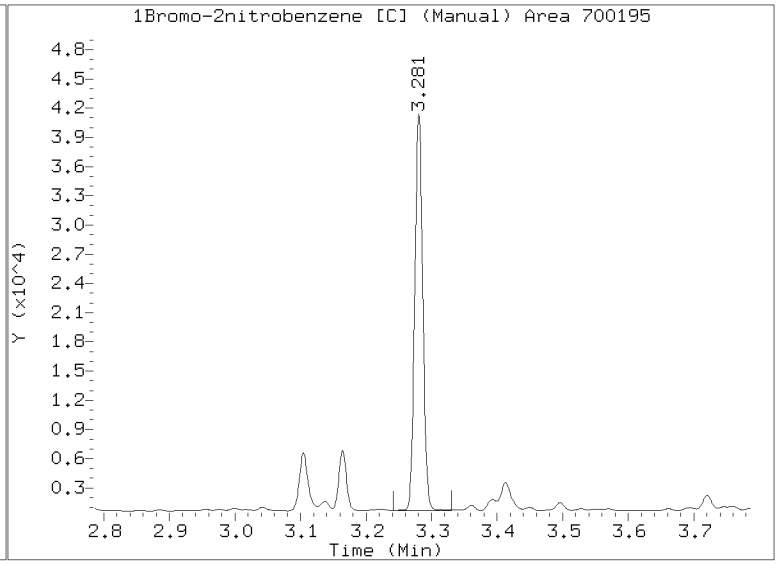
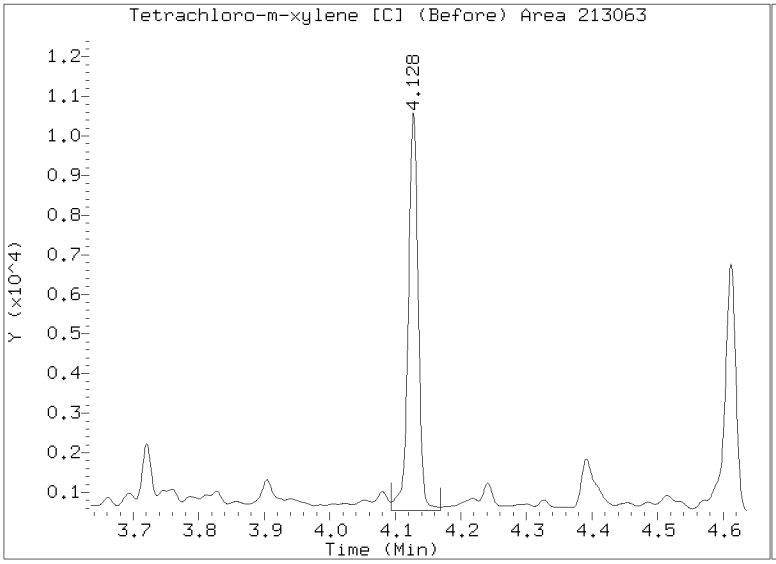
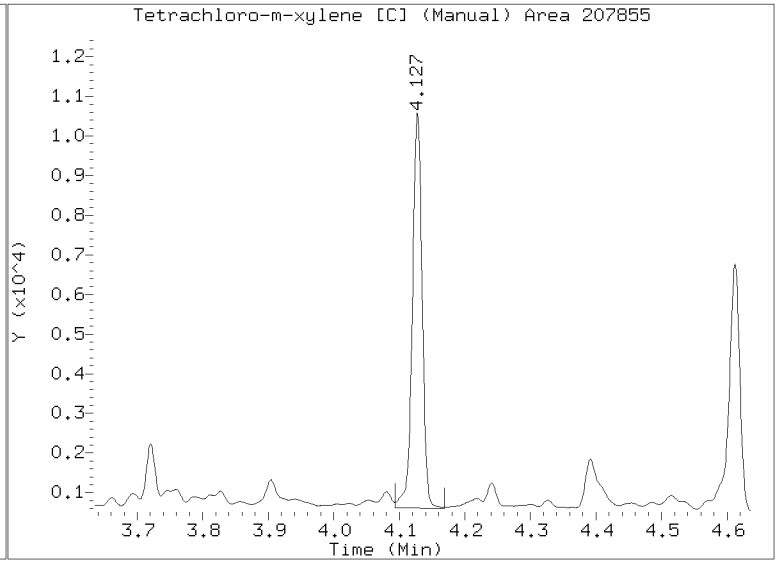
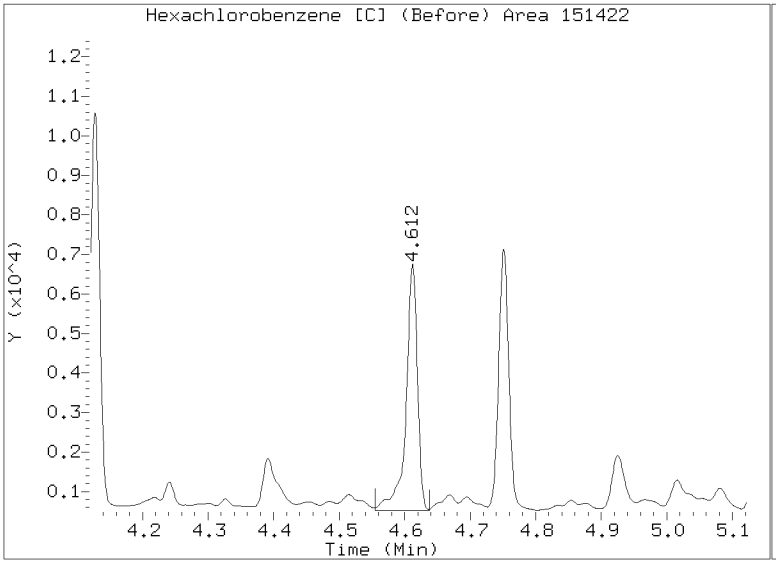
Injection Date: 02-MAY-2023 18:02
Lab ID:BLD0299-MS1 Client ID:

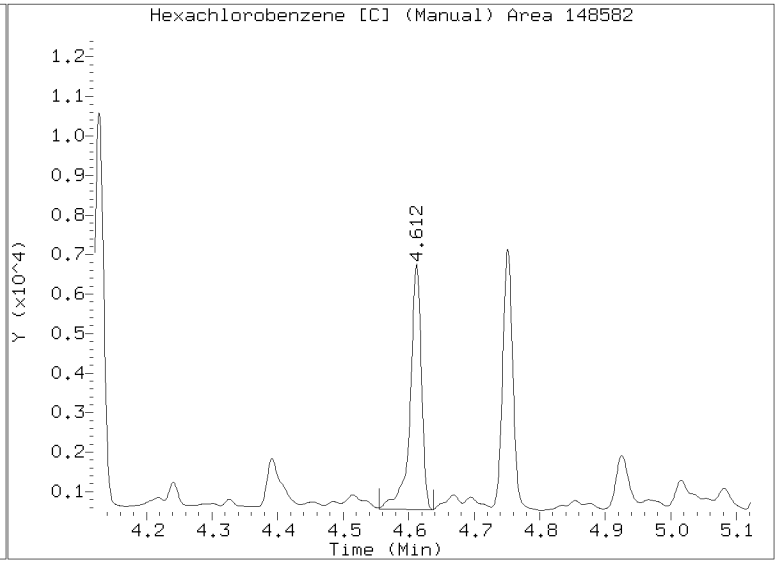












Manual Peak Adjustment Report, CLP-2

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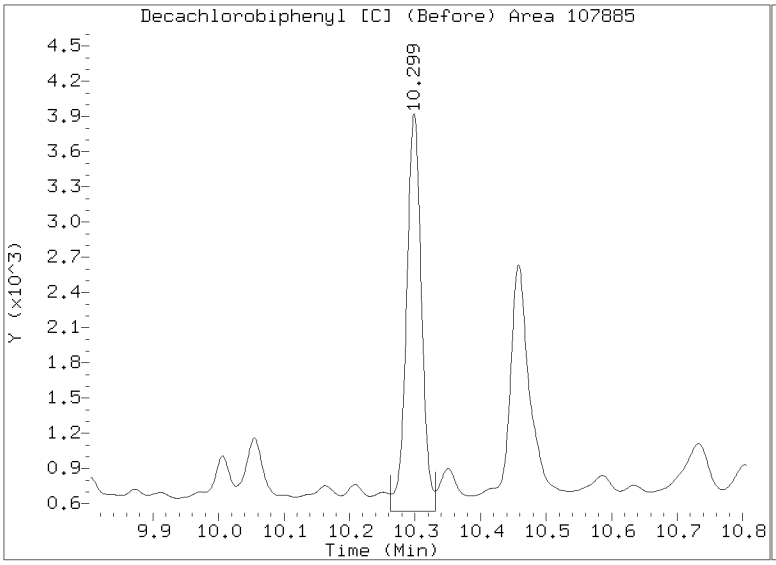
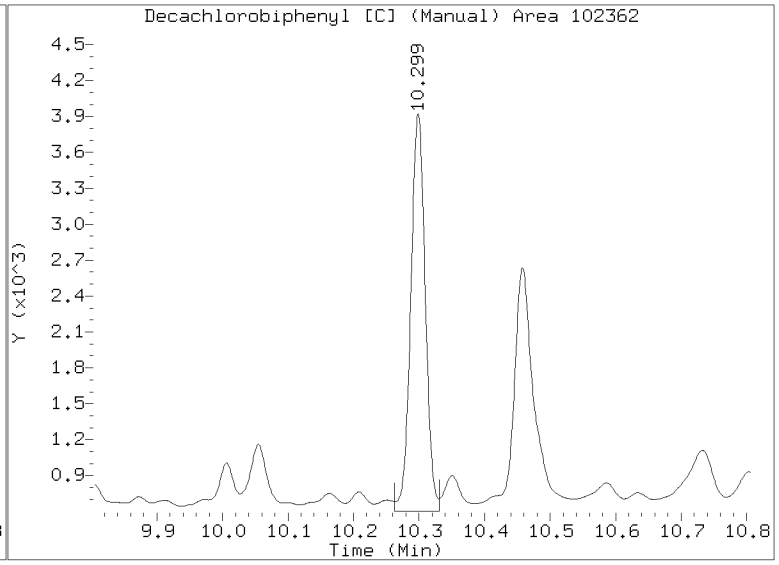
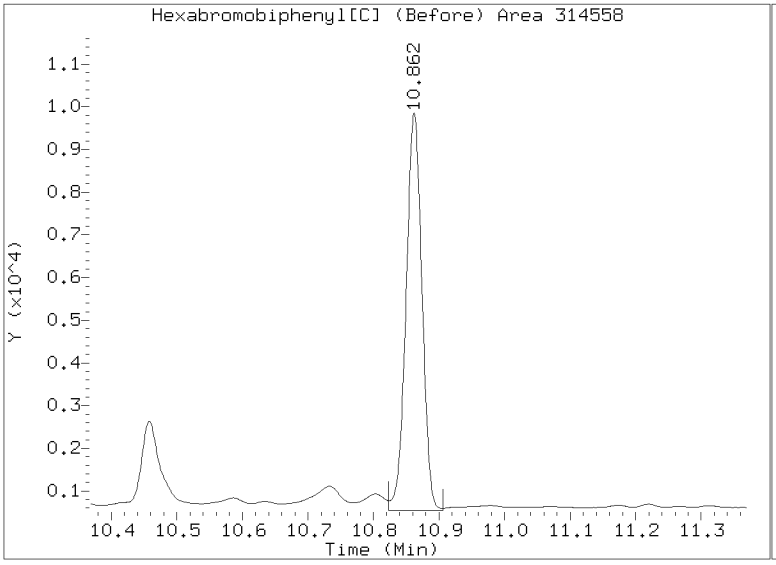
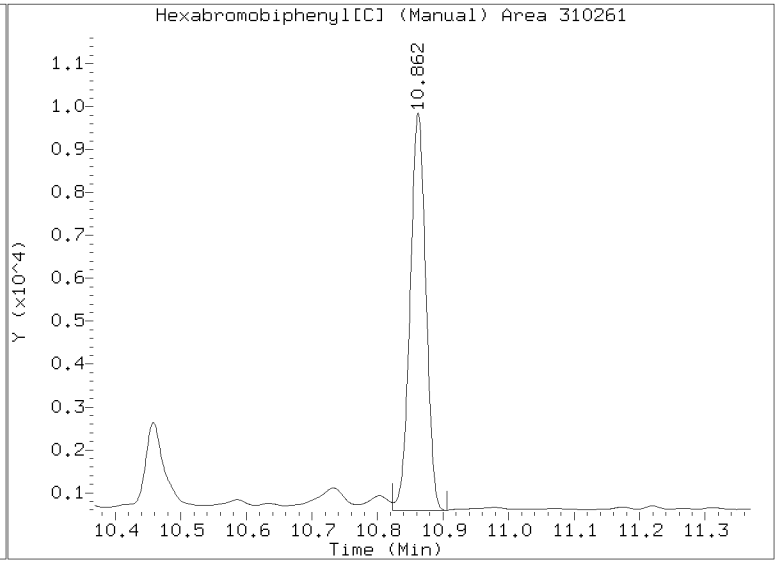
Injection Date: 02-MAY-2023 18:02
Lab ID:BLD0299-MS1 Client ID:









Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050217.D
Data file 2: /20230502.b/B20230502.b/23050217.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLD0325-MSD1
Client ID:
Injection Date: 02-MAY-2023 18:21
Report Date: 05/05/2023 15:14
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.325	-0.008	176523	4.752	-0.010	144270	11.64	10.28	12.4	alpha-BHC
4.709	-0.008	60844	5.219	-0.011	60464	10.05	10.85	7.7	beta-BHC
4.893	-0.008	219739	5.566	-0.011	122381	16.00	9.80	48.1*	delta-BHC
4.629	-0.008	173402	5.141	-0.011	123833	13.01	10.04	25.8	gamma-BHC (Lindane)
5.116	-0.008	145109	5.660	-0.011	133778	11.77	12.37	5.0	Heptachlor
5.441	-0.007	169826	6.059	-0.012	126114	13.54	11.23	18.6	Aldrin
6.115	-0.010	128977	6.703	-0.026	210921	11.39	21.34	60.8*	Heptachlor epoxide b
6.559	-0.008	164811	7.161	-0.011	139851	16.33	16.61	1.7	Endosulfan I
6.804	-0.024	95583	7.440	-0.026	39648	8.95	4.29	70.3*	Dieldrin
6.480	-0.009	343728	7.247	-0.010	250971	34.12	28.56	17.8	4,4'-DDE
----			7.811	0.021	119388	0.00	18.71	---	Endrin
7.304	-0.010	67115	7.981	-0.020	176073	9.89	29.20	98.8*	Endosulfan II
7.127	-0.009	392974	7.852	-0.010	181595	60.39	31.13	64.0*	4,4'-DDD
8.169	-0.008	127209	8.588	-0.010	111855	19.87	20.15	1.4	Endosulfan sulfate
7.421	-0.010	431118	8.175	-0.006	371575	61.51	63.13	2.6	4,4'-DDT
7.940	0.020	43570	8.847	0.025	15018	14.51	5.95	83.7*	Methoxychlor
8.443	-0.009	161843	9.111	-0.008	201784	22.16	33.28	40.1*	Endrin ketone
7.763	0.020	60117	8.315	-0.016	48923	11.60	11.22	3.3	Endrin aldehyde
6.257	-0.009	124776	6.929	-0.010	105880	11.26	11.17	0.8	trans-Chlordane
6.405	-0.008	173675	7.089	-0.011	100985	15.61	10.82	36.3	cis-Chlordane
2.304	-0.005	149079	2.448	-0.005	122748	9.53	9.64	1.1	Hexachlorobutadiene
4.167	-0.008	176109	4.613	-0.009	150845	13.12	12.31	6.4	Hexachlorobenzene
3.812	-0.007	220412	4.127	-0.009	229430	22.71	25.23	10.5	Tetrachloro-m-xylene
9.361	-0.005	141060	10.298	-0.008	122786	28.51	32.08	11.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

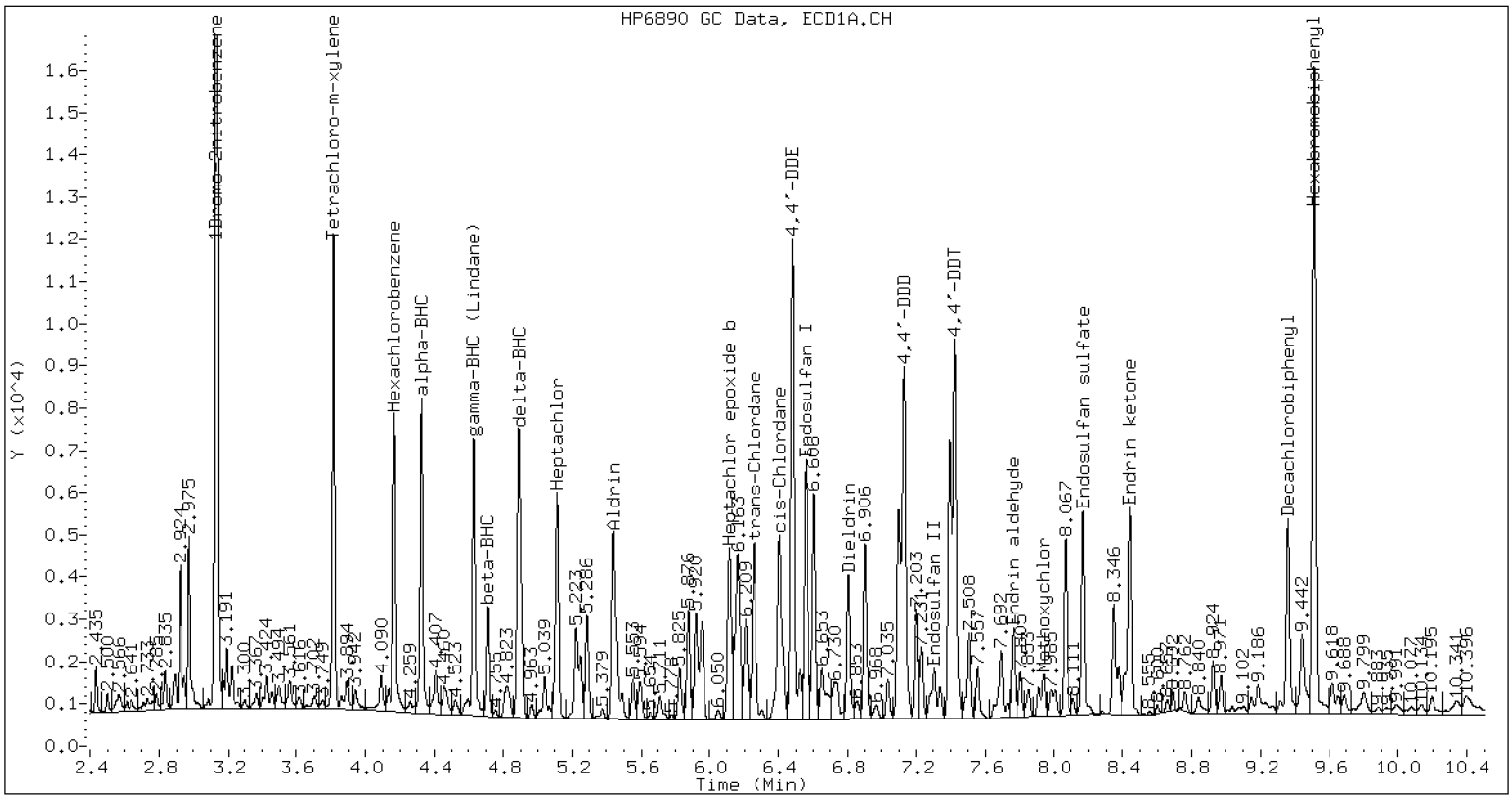
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	693510	-25.6
Hexabromobiphenyl	745426	419542	-43.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	661354	-47.0
Hexabromobiphenyl	754634	317098	-58.0 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230502.b/23050217.D BLD0325-MSD1 STX-CLP 02-MAY-2023 18:21 1ul



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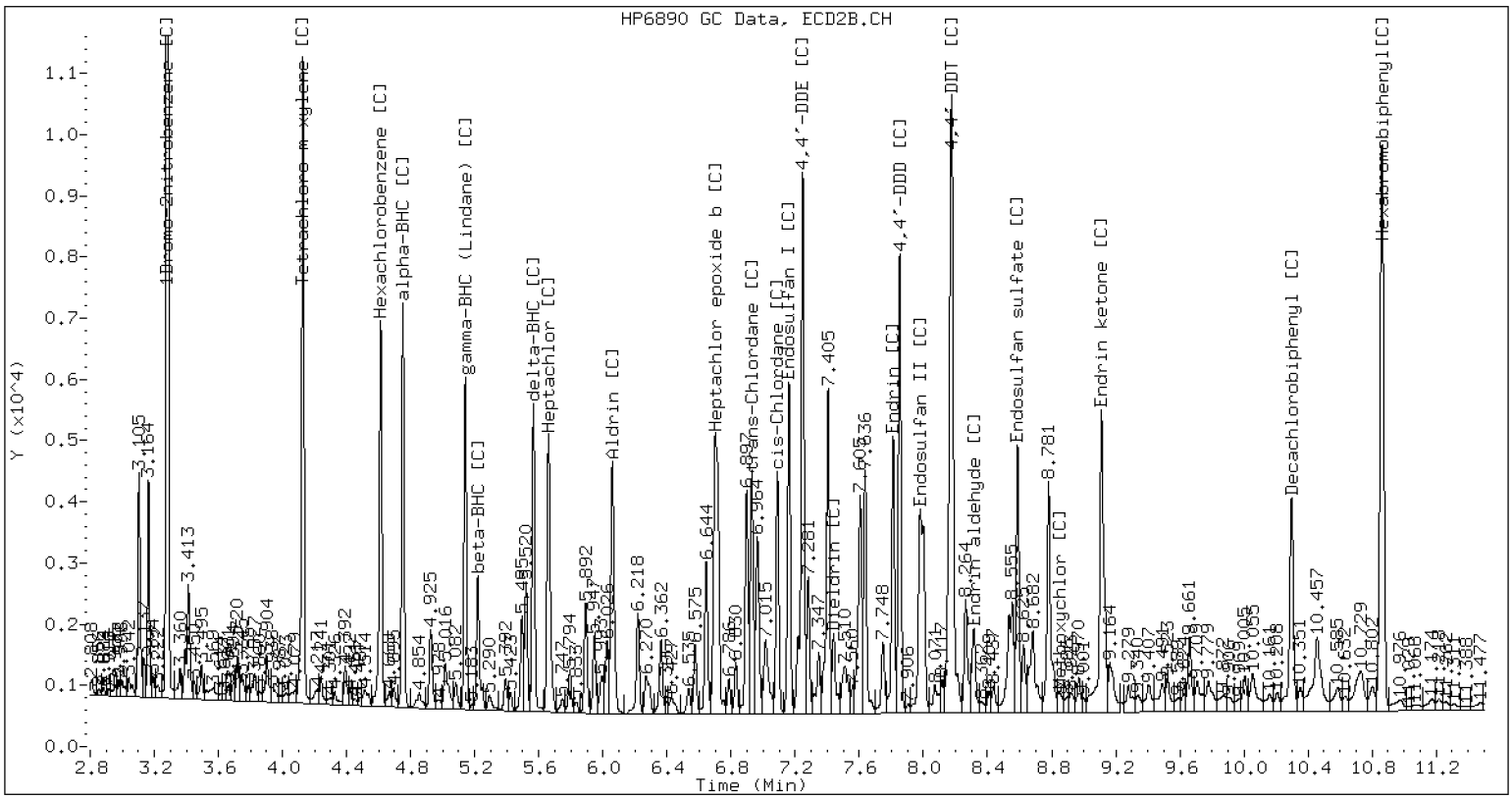
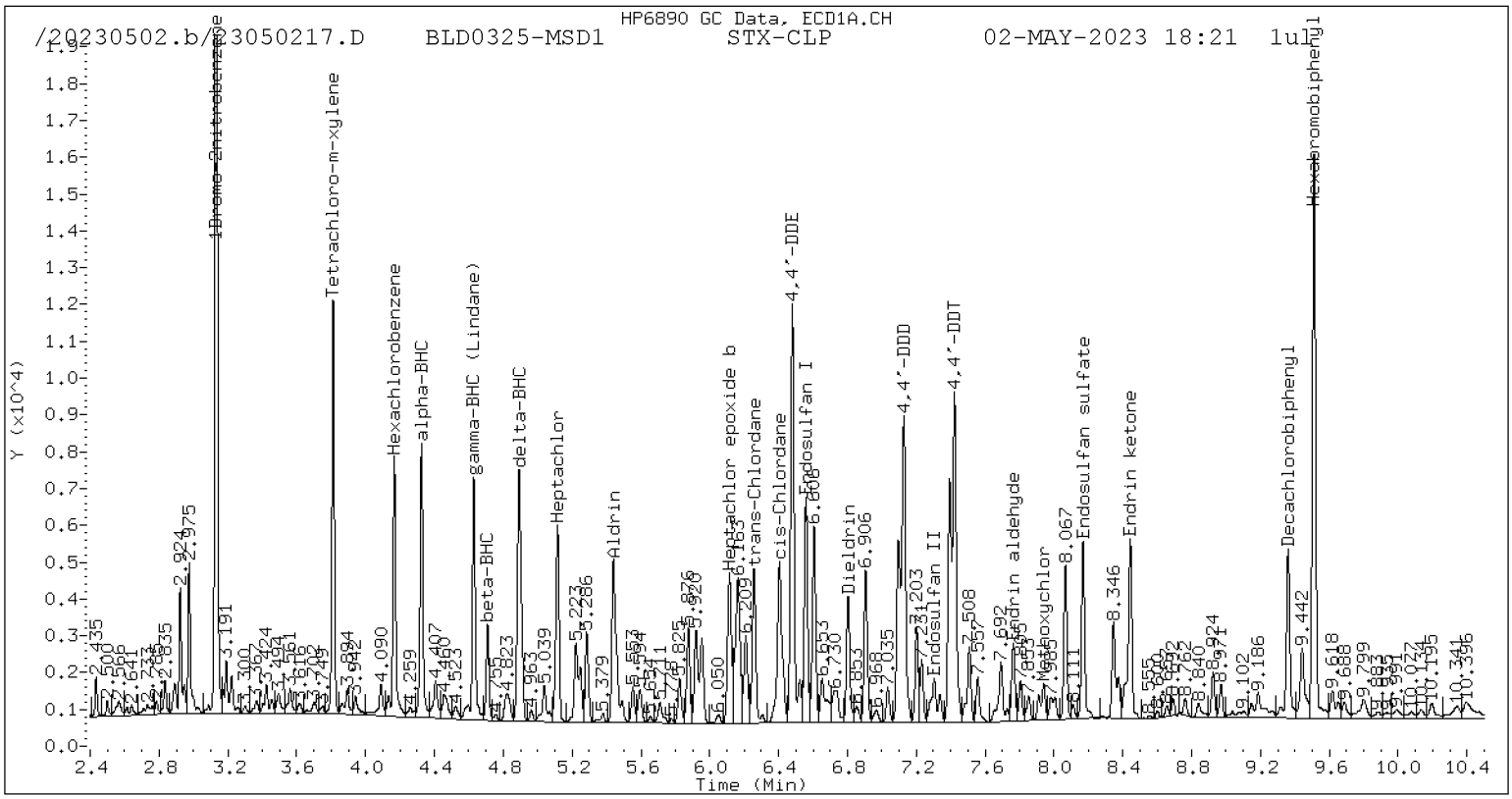


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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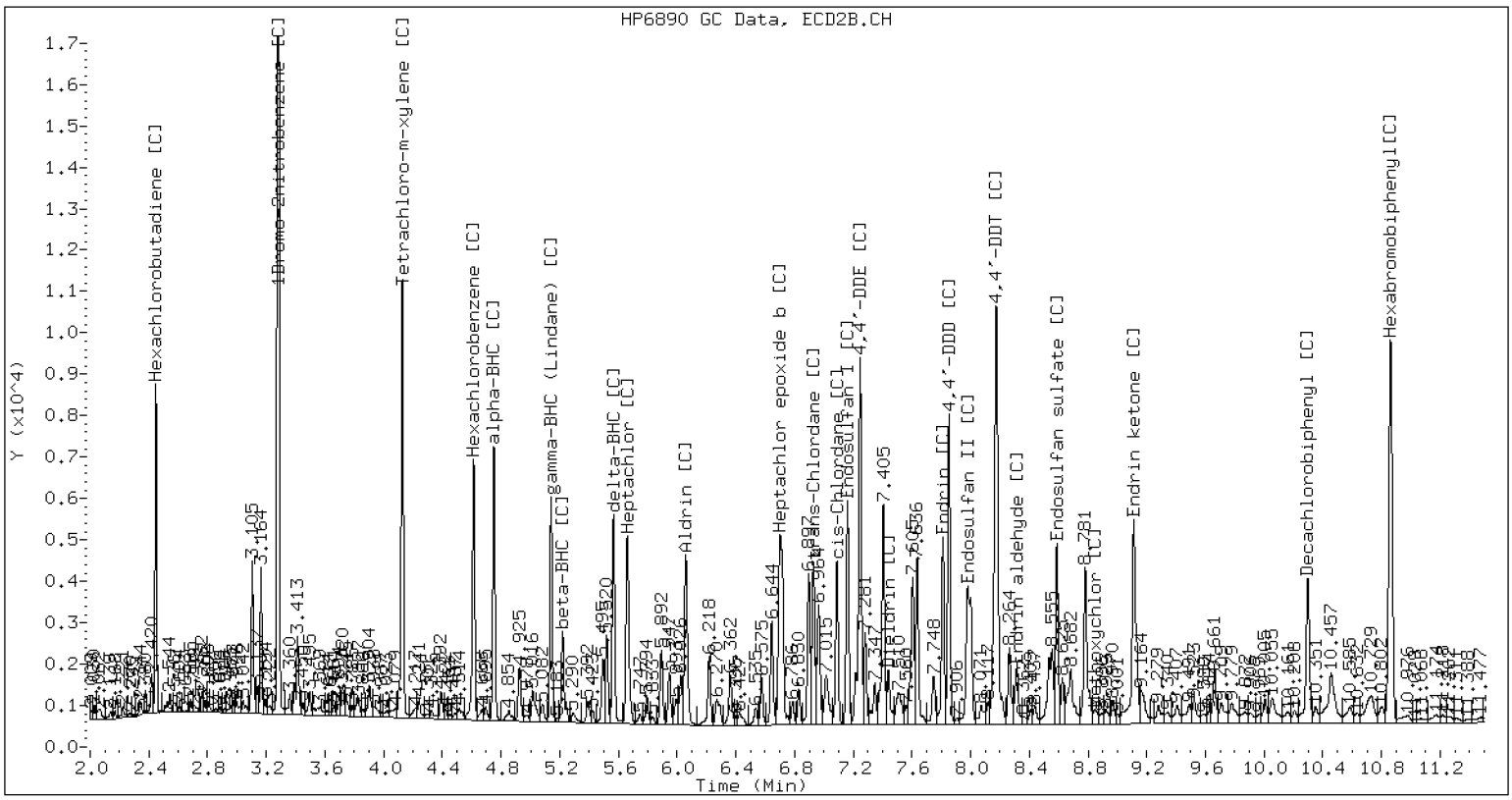

CLP-2 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
alpha-BHC	1.25	1.758446	2.5	1.793034	5	1.787921	10	1.820149	20	1.746397	40	1.716797
beta-BHC	1.25	0.788793	2.5	0.7569771	5	0.7155102	10	0.7014976	20	0.6678267	40	0.6501742
gamma-BHC (Lindane)	1.25	1.559693	2.5	1.583923	5	1.58235	10	1.598676	20	1.529273	40	1.499019
delta-BHC	1.25	1.59762	2.5	1.626931	5	1.624749	10	1.653082	20	1.588864	40	1.541049
Heptachlor	1.25	1.554443	2.5	1.531351	5	1.497087	10	1.483843	20	1.384618	40	1.315267
Aldrin	1.25	1.529504	2.5	1.520296	5	1.511018	10	1.51498	20	1.427755	40	1.370617
Heptachlor Epoxide	1.25	1.774611	2.5	1.354332	5	1.322607	10	1.304654	20	1.210437	40	1.144735
trans-Chlordane (beta-Chlordane)	1.25	1.354102	2.5	1.330731	5	1.314787	10	1.32467	20	1.257661	40	1.225936
cis-Chlordane (alpha-chlordane)	1.25	1.38132	2.5	1.354747	5	1.327406	10	1.32583	20	1.252433	40	1.214494
Endosulfan I	1.25	1.28039	2.5	1.251682	5	1.221496	10	1.216764	20	1.133363	40	1.073676
4,4'-DDE	2.5	1.241703	5	1.249274	10	1.223171	20	1.217063	40	1.137758	80	1.080812
Dieldrin	2.5	1.347435	5	1.34643	10	1.304895	20	1.291644	40	1.193947	80	1.121507
Endrin	2.5	1.575682	5	1.512382	10	1.454305	20	1.423573	40	1.325891	80	1.256508
Endosulfan II	2.5	1.477278	5	1.431992	10	1.365849	20	1.33268	40	1.230636	80	1.175313
4,4'-DDD	2.5	1.356339	5	1.32763	10	1.293997	20	1.288722	40	1.208436	80	1.161216
Endrin Aldehyde	2.5	1.143957	5	1.081014	10	1.040379	20	1.009159	40	0.9323716	80	0.8993666
4,4'-DDT	2.5	1.4624	5	1.433181	10	1.389521	20	1.379129	40	1.292845	80	1.257281
Endosulfan Sulfate	2.5	1.38827	5	1.353634	10	1.280025	20	1.24749	40	1.153021	80	1.114537
Endrin Ketone	2.5	1.700623	5	1.575155	10	1.435306	20	1.38817	40	1.277962	80	1.241808
Methoxychlor	12.5	0.7088741	25	0.6538653	50	0.600962	100	0.5634784	200	0.512559	400	0.4973477
Hexachlorobutadiene	1.25	2.066765	2.5	1.98551	5	1.84558	10	1.819375	20	1.706219	40	1.655525
Hexachlorobenzene	1.25	1.762453	2.5	1.689934	5	1.607175	10	1.570994	20	1.468142	40	1.417979
Decachlorobiphenyl	2.5	1.222654	5	1.128374	10	0.9768294	20	0.9096561	40	0.8271431	80	0.8027704
Tetrachlorometaxylene	2.5	1.255658	5	1.227805	10	1.182654	20	1.158038	40	1.071055	80	1.01536

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
alpha-BHC	80	1.622443										
beta-BHC	80	0.6090197										
gamma-BHC (Lindane)	80	1.407841										
delta-BHC	80	1.454462										
Heptachlor	80	1.192761										
Aldrin	80	1.256117										
Heptachlor Epoxide	80	1.032478										
trans-Chlordane (beta-Chlordane)	80	1.139256										
cis-Chlordane (alpha-chlordane)	80	1.125338										
Endosulfan I	80	0.9739344										
4,4'-DDE	160	0.9837787										
Dieldrin	160	1.020371										
Endrin	160	1.12944										
Endosulfan II	160	1.048725										
4,4'-DDD	160	1.049731										
Endrin Aldehyde	160	0.8100832										
4,4'-DDT	160	1.140812										
Endosulfan Sulfate	160	1.00702										
Endrin Ketone	160	1.130226										
Methoxychlor	800	0.4708452										
Hexachlorobutadiene	80	1.550879										
Hexachlorobenzene	80	1.319539										
Decachlorobiphenyl	160	0.7377625										
Tetrachlorometaxylene	160	0.9251255										

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc		Conc		Conc		Conc		Conc		Conc	

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (1):	STX-CLP

Calibration Comments: PEST

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
alpha-BHC	1.749312	3.7			RSD ()	
beta-BHC	0.6985426	8.9			RSD ()	
gamma-BHC (Lindane)	1.537254	4.3			RSD ()	
delta-BHC	1.583822	4.2			RSD ()	
Heptachlor	1.422767	9.3			RSD ()	
Aldrin	1.447184	7.1			RSD ()	
Heptachlor Epoxide	1.306265	18.0			RSD ()	
trans-Chlordane (beta-Chlordane)	1.278163	5.9			RSD ()	
cis-Chlordane (alpha-chlordane)	1.283081	7.1			RSD ()	
Endosulfan I	1.164472	9.4			RSD ()	
4,4'-DDE	1.161937	8.6			RSD ()	
Dieldrin	1.232318	10.1			RSD ()	
Endrin	1.38254	11.2			RSD ()	
Endosulfan II	1.294639	11.7			RSD ()	
4,4'-DDD	1.240867	8.7			RSD ()	
Endrin Aldehyde	0.9880472	11.6			RSD ()	
4,4'-DDT	1.336453	8.4			RSD ()	
Endosulfan Sulfate	1.220571	11.2			RSD ()	
Endrin Ketone	1.39275	14.2			RSD ()	
Methoxychlor	0.5725617	15.2			RSD ()	
Hexachlorobutadiene	1.804265	10.1			RSD ()	
Hexachlorobenzene	1.548031	10.1			RSD ()	
Decachlorobiphenyl	0.9435985	18.9			RSD ()	
Tetrachlorometaxylene	1.119385	10.7			RSD ()	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
alpha-BHC [2C]	1.25	1.634624	2.5	1.678666	5	1.710559	10	1.772195	20	1.71975	40	1.716119
beta-BHC [2C]	1.25	0.7471432	2.5	0.7058254	5	0.6840549	10	0.6842229	20	0.6481322	40	0.641233
gamma-BHC (Lindane) [2C]	1.25	1.480091	2.5	1.487112	5	1.510148	10	1.55733	20	1.498355	40	1.491815
delta-BHC [2C]	1.25	1.487554	2.5	1.497626	5	1.524709	10	1.579108	20	1.525543	40	1.520296
Heptachlor [2C]	1.25	1.373886	2.5	1.353203	5	1.353614	10	1.374532	20	1.296764	40	1.255633
Aldrin [2C]	1.25	1.395231	2.5	1.381352	5	1.395557	10	1.427929	20	1.361246	40	1.323917
Heptachlor Epoxide [2C]	1.25	1.563229	2.5	1.202488	5	1.189293	10	1.198902	20	1.127262	40	1.089359
trans-Chlordane (beta-Chlordane) [2C]	1.25	1.193676	2.5	1.162996	5	1.163844	10	1.187466	20	1.138044	40	1.122786
cis-Chlordane (alpha-chlordane) [2C]	1.25	1.19498	2.5	1.160096	5	1.151724	10	1.165254	20	1.109322	40	1.091968
Endosulfan I [2C]	1.25	1.087314	2.5	1.05822	5	1.052745	10	1.061932	20	1.003046	40	0.971827
4,4'-DDE [2C]	2.5	1.122124	5	1.121433	10	1.120519	20	1.127601	40	1.046679	80	0.9935085
Dieldrin [2C]	2.5	1.19866	5	1.185034	10	1.169918	20	1.167741	40	1.088998	80	1.041633
Endrin [2C]	2.5	1.780672	5	1.744711	10	1.683173	20	1.665176	40	1.564125	80	1.469247
Endosulfan II [2C]	2.5	1.677035	5	1.629171	10	1.570402	20	1.564153	40	1.471914	80	1.402674
4,4'-DDD [2C]	2.5	1.579577	5	1.54965	10	1.50467	20	1.515232	40	1.443529	80	1.391486
Endrin Aldehyde [2C]	2.5	1.253373	5	1.18287	10	1.12863	20	1.118267	40	1.052168	80	1.012581
4,4'-DDT [2C]	2.5	1.600918	5	1.557568	10	1.514112	20	1.52351	40	1.44879	80	1.408978
Endosulfan Sulfate [2C]	2.5	1.556834	5	1.495569	10	1.4341	20	1.427133	40	1.353247	80	1.305459
Endrin Ketone [2C]	2.5	1.754774	5	1.672155	10	1.567791	20	1.543546	40	1.447563	80	1.394409
Methoxychlor [2C]	12.5	0.7559674	25	0.7047204	50	0.6587417	100	0.6318048	200	0.5809741	400	0.5631766
Hexachlorobutadiene [2C]	1.25	1.681751	2.5	1.590956	5	1.607479	10	1.610378	20	1.496956	40	1.459254
Hexachlorobenzene [2C]	1.25	1.637651	2.5	1.581918	5	1.532249	10	1.523234	20	1.427207	40	1.378405
Decachlorobiphenyl [2C]	2.5	1.110954	5	1.069191	10	1.031738	20	0.9714922	40	0.8913407	80	0.8617554
Tetrachlorometaxylene [2C]	2.5	1.21095	5	1.18796	10	1.162806	20	1.152165	40	1.062725	80	1.003709

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
alpha-BHC [2C]	80	1.64801										
beta-BHC [2C]	80	0.6083869										
gamma-BHC (Lindane) [2C]	80	1.419847										
delta-BHC [2C]	80	1.440628										
Heptachlor [2C]	80	1.152015										
Aldrin [2C]	80	1.223094										
Heptachlor Epoxide [2C]	80	0.9993275										
trans-Chlordane (beta-Chlordane) [2C]	80	1.05677										
cis-Chlordane (alpha-chlordane) [2C]	80	1.029771										
Endosulfan I [2C]	80	0.8963787										
4,4'-DDE [2C]	160	0.9086734										
Dieldrin [2C]	160	0.9646339										
Endrin [2C]	160	1.363992										
Endosulfan II [2C]	160	1.332182										
4,4'-DDD [2C]	160	1.319055										
Endrin Aldehyde [2C]	160	0.9507641										
4,4'-DDT [2C]	160	1.341072										
Endosulfan Sulfate [2C]	160	1.231965										
Endrin Ketone [2C]	160	1.326225										
Methoxychlor [2C]	800	0.5618064										
Hexachlorobutadiene [2C]	80	1.339018										
Hexachlorobenzene [2C]	80	1.294186										
Decachlorobiphenyl [2C]	160	0.8227871										
Tetrachlorometaxylene [2C]	160	0.9200768										

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc		Conc		Conc		Conc		Conc		Conc	

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00035	Instrument:	ECD6
Calibration Date:	04/12/2023	Column (2):	STX-CLPII

Calibration Comments: PEST

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
alpha-BHC [2C]	1.697132	2.8			RSD ()	
beta-BHC [2C]	0.6741427	6.8			RSD ()	
gamma-BHC (Lindane) [2C]	1.4921	2.7			RSD ()	
delta-BHC [2C]	1.510781	2.8			RSD ()	
Heptachlor [2C]	1.308521	6.2			RSD ()	
Aldrin [2C]	1.358332	5.0			RSD ()	
Heptachlor Epoxide [2C]	1.195694	14.9			RSD ()	
trans-Chlordane (beta-Chlordane) [2C]	1.146512	4.1			RSD ()	
cis-Chlordane (alpha-chlordane) [2C]	1.129016	5.0			RSD ()	
Endosulfan I [2C]	1.01878	6.5			RSD ()	
4,4'-DDE [2C]	1.062934	8.0			RSD ()	
Dieldrin [2C]	1.11666	7.9			RSD ()	
Endrin [2C]	1.610157	9.4			RSD ()	
Endosulfan II [2C]	1.521076	8.2			RSD ()	
4,4'-DDD [2C]	1.471886	6.3			RSD ()	
Endrin Aldehyde [2C]	1.099808	9.4			RSD ()	
4,4'-DDT [2C]	1.484993	6.1			RSD ()	
Endosulfan Sulfate [2C]	1.400615	8.0			RSD ()	
Endrin Ketone [2C]	1.529495	10.0			RSD ()	
Methoxychlor [2C]	0.6367416	11.7			RSD ()	
Hexachlorobutadiene [2C]	1.540827	7.5			RSD ()	
Hexachlorobenzene [2C]	1.482121	8.1			RSD ()	
Decachlorobiphenyl [2C]	0.9656083	11.4			RSD ()	
Tetrachlorometaxylene [2C]	1.100056	9.8			RSD ()	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-PEM1	QC		1		L002116	L000844		
SLD0187-CAL1	QC		2		L003348	L000844		
SLD0187-CAL2	QC		3		L003347	L000844		
SLD0187-CAL3	QC		4		L003346	L000844		
SLD0187-CAL4	QC		5		L003345	L000844		
SLD0187-CAL5	QC		6		L003344	L000844		
SLD0187-CAL6	QC		7		L003343	L000844		
SLD0187-CAL7	QC		8		L000560	L000844		
SLD0187-CAL8	QC		9		L003342	L000844		
SLD0187-CAL9	QC		10		L003341	L000844		
SLD0187-CALA	QC		11		L003340	L000844		
SLD0187-CALB	QC		12		L003339	L000844		
SLD0187-CALC	QC		13		L003338	L000844		
SLD0187-CALD	QC		14		L003337	L000844		
SLD0187-CALE	QC		15		L000377	L000844		
SLD0187-CALF	QC		16		L003398	L000844		
SLD0187-CALG	QC		17		L003397	L000844		
SLD0187-CALH	QC		18		L003396	L000844		
SLD0187-CALI	QC		19		L003395	L000844		
SLD0187-CALJ	QC		20		L003394	L000844		
SLD0187-CALK	QC		21		L003393	L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-CALL	QC		22		L000559	L000844		
SLD0187-SCV1	QC		23		L003155	L000844		
SLD0187-SCV2	QC		24		L003156	L000844		
SLD0187-PEM2	QC		25		L002116	L000844		
SLD0187-ICV1	QC		26		L003344	L000844		
SLD0187-ICV2	QC		27		L003338	L000844		
BLD0075-BLK1	QC		28			L000844		
BLD0075-BS1	QC		29			L000844		
BLD0075-MRL1	QC		30			L000844		
23D0028-01	8081B Pest	E 01	31			L000844	Associated Earth Sciences, Inc	
SLD0187-PEM3	QC		32		L002116	L000844		
SLD0187-CCV1	QC		33		L003344	L000844		
SLD0187-CCV2	QC		34		L003338	L000844		
BLD0009-BLK1	QC		35			L000844		
BLD0009-BS1	QC		36			L000844		
BLD0009-BSD1	QC		37			L000844		
BLD0009-MS1	QC		38			L000844		
BLD0009-MSD1	QC		39			L000844		
23C0752-01	8081B Pest (PSDDA)	A 03	40			L000844	Anchor QEA, LLC	
23C0752-02	8081B Pest (PSDDA)	A 03	41			L000844	Anchor QEA, LLC	
23C0752-03	8081B Pest (PSDDA)	A 03	42			L000844	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0752-04	8081B Pest (PSDDA)	A 03	43			L000844	Anchor QEA, LLC	
23C0752-06	8081B Pest (PSDDA)	A 03	44			L000844	Anchor QEA, LLC	
SLD0187-PEM4	QC		45		L002116	L000844		
SLD0187-CCV3	QC		46		L000845	L000844		
SLD0187-CCV4	QC		47		L003338	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	12-APR-2023 14:57	23041202.D	1	SEQ-IB	
2	12-APR-2023 15:16	23041203.D	1	SEQ-PEM1	
3	12-APR-2023 15:34	23041204.D	1	SEQ-CAL1	
4	12-APR-2023 15:53	23041205.D	1	SEQ-CAL2	
5	12-APR-2023 16:11	23041206.D	1	SEQ-CAL3	
6	12-APR-2023 16:30	23041207.D	1	SEQ-CAL5	
7	12-APR-2023 16:48	23041208.D	1	SEQ-CAL4	
8	12-APR-2023 17:06	23041209.D	1	SEQ-CAL6	
9	12-APR-2023 17:25	23041210.D	1	SEQ-CAL7	
10	12-APR-2023 17:43	23041211.D	1	SEQ-CAL8	
11	12-APR-2023 18:02	23041212.D	1	SEQ-CAL9	
12	12-APR-2023 18:20	23041213.D	1	SEQ-CALA	
13	12-APR-2023 18:38	23041214.D	1	SEQ-CALB	
14	12-APR-2023 18:57	23041215.D	1	SEQ-CALC	
15	12-APR-2023 19:15	23041216.D	1	SEQ-CALD	
16	12-APR-2023 19:34	23041217.D	1	SEQ-CALE	
17	12-APR-2023 19:52	23041218.D	1	SEQ-CALF	
18	12-APR-2023 20:10	23041219.D	1	SEQ-CALG	
19	12-APR-2023 20:29	23041220.D	1	SEQ-CALH	
20	12-APR-2023 20:47	23041221.D	1	SEQ-CALI	
21	12-APR-2023 21:05	23041222.D	1	SEQ-CALJ	
22	12-APR-2023 21:24	23041223.D	1	SEQ-CALK	
23	12-APR-2023 21:42	23041224.D	1	SEQ-CALL	
24	12-APR-2023 22:00	23041225.D	1	SEQ-SCV1	
25	12-APR-2023 22:19	23041226.D	1	SEQ-SCV2	
26	12-APR-2023 22:37	23041227.D	1	SEQ-PEM2	
27	12-APR-2023 22:55	23041228.D	1	SEQ-ICV1	
28	12-APR-2023 23:14	23041229.D	1	SEQ-ICV2	
29	12-APR-2023 23:32	23041230.D	1	BLD0075-BLK1	
30	12-APR-2023 23:50	23041231.D	1	BLD0075-BS1	
31	13-APR-2023 00:09	23041232.D	1	BLD0075-MRL1	
32	13-APR-2023 00:27	23041233.D	1	23D0028-01	
33	13-APR-2023 00:45	23041234.D	1	SEQ-PEM3	
34	13-APR-2023 01:04	23041235.D	1	SEQ-CCV1	
35	13-APR-2023 01:22	23041236.D	1	SEQ-CCV2	
36	13-APR-2023 01:40	23041237.D	1	BLD0009-BLK1	
37	13-APR-2023 01:59	23041238.D	1	BLD0009-BS1	
38	13-APR-2023 02:17	23041239.D	1	BLD0009-BSD1	
39	13-APR-2023 02:35	23041240.D	1	BLD0009-MS1	
40	13-APR-2023 02:53	23041241.D	1	BLD0009-MSD1	
41	13-APR-2023 03:12	23041242.D	1	23C0752-01	
42	13-APR-2023 03:30	23041243.D	1	23C0752-02	
43	13-APR-2023 03:48	23041244.D	1	23C0752-03	
44	13-APR-2023 04:07	23041245.D	1	23C0752-04	
45	13-APR-2023 04:25	23041246.D	1	23C0752-06	
46	13-APR-2023 04:43	23041247.D	1	SEQ-PEM4	
47	13-APR-2023 05:02	23041248.D	1	SEQ-CCV3	
48	13-APR-2023 05:20	23041249.D	1	SEQ-CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

ARI Job No.: SEQ- Method: PEST.m Instrument: ecd6.i Date: 12-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1457	23041202.D	SEQ-IB		1	NO MANUAL INTEGRATION
1516	23041203.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1534	23041204.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1553	23041205.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
1611	23041206.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
1630	23041207.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
1648	23041208.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
1706	23041209.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
1725	23041210.D	SEQ-CAL7		1	alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Erdosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobe
1743	23041211.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
1802	23041212.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
1820	23041213.D	SEQ-CALA		1	NO MANUAL INTEGRATION
1838	23041214.D	SEQ-CALB		1	NO MANUAL INTEGRATION
1857	23041215.D	SEQ-CALC		1	NO MANUAL INTEGRATION
1915	23041216.D	SEQ-CALD		1	NO MANUAL INTEGRATION
1934	23041217.D	SEQ-CALE		1	Oxychlordane, 2,4-DDE, trans-Nonachlor, 2,4-DDD, 2,4-DDT, cis-Nonachlor, Mirex,
1952	23041218.D	SEQ-CALF		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2010	23041219.D	SEQ-CALG		1	NO MANUAL INTEGRATION
2029	23041220.D	SEQ-CALH		1	NO MANUAL INTEGRATION
2047	23041221.D	SEQ-CALI		1	NO MANUAL INTEGRATION
2105	23041222.D	SEQ-CALJ		1	NO MANUAL INTEGRATION
2124	23041223.D	SEQ-CALK		1	NO MANUAL INTEGRATION
2142	23041224.D	SEQ-CALL		1	NO MANUAL INTEGRATION
2200	23041225.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
2219	23041226.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
2237	23041227.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
2255	23041228.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
2314	23041229.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
2332	23041230.D	BLD0075-BLK1		1	NO MANUAL INTEGRATION
2350	23041231.D	BLD0075-BS1		1	NO MANUAL INTEGRATION
0009	23041232.D	BLD0075-MRL1		1	NO MANUAL INTEGRATION
0027	23041233.D	23D0028-01		1	NO MANUAL INTEGRATION
0045	23041234.D	SEQ-PEM3		1	Endrin, 4,4'-DDD,
0104	23041235.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
0122	23041236.D	SEQ-CCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0140	23041237.D	BLD0009-BLK1		1	NO MANUAL INTEGRATION
0159	23041238.D	BLD0009-BS1		1	NO MANUAL INTEGRATION
0217	23041239.D	BLD0009-BSD1		1	NO MANUAL INTEGRATION
0235	23041240.D	BLD0009-MS1		1	Endrin, 4,4'-DDD, 4,4'-DDT,
0253	23041241.D	BLD0009-MSD1		1	Aldrin,
0312	23041242.D	23C0752-01		1	delta-BHC, gamma-BHC (Lindane), Endrin, 4,4'-DDD, 4,4'-DDT, Endrin aldehyde, Toxaphene, cis-Nonachlor,
0330	23041243.D	23C0752-02		1	Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0348	23041244.D	23C0752-03		1	Dieldrin, 4,4'-DDD, cis-Chlordane, Hexachlorobenzene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0407	23041245.D	23C0752-04		1	delta-BHC, Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0425	23041246.D	23C0752-06		1	Endrin, 4,4'-DDT, cis-Chlordane, Toxaphene, cis-Nonachlor, Mirex, Chlordane (NOS),
0443	23041247.D	SEQ-PEM4		1	Endrin, 4,4'-DDD,
0502	23041248.D	SEQ-CCV3		1	Hexabromobiphenyl,
0520	23041249.D	SEQ-CCV4		1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Apr-2023 08:24

23041202.D	Data Locked	yev, 14-
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ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041204	23041205	23041206	23041207	23041208	23041209	23041210
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	15:34	15:53	16:11	16:30	16:48	17:06	17:25

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	2.308	2.308	2.308	2.309	2.308	2.309	2.309	2.308	2.278-2.338	2.308	0.000
*	2 1Bromo-2nitrobenzene	3.137	3.138	3.138	3.138	3.138	3.138	3.138	3.137	3.107-3.167	3.138	0.000
*	3 Hexabromobiphenyl	9.516	9.516	9.516	9.515	9.515	9.516	9.516	9.516	9.486-9.546	9.516	0.000
$	4 Tetrachloro-m-xylene	3.819	3.820	3.819	3.819	3.819	3.819	3.819	3.819	3.789-3.849	3.819	0.000
	5 Hexachlorobenzene	4.175	4.175	4.175	4.175	4.175	4.175	4.175	4.175	4.145-4.205	4.175	0.000
	6 alpha-BHC	4.333	4.334	4.333	4.334	4.333	4.333	4.333	4.333	4.303-4.363	4.333	0.000
	7 gamma-BHC (Lindane)	4.637	4.637	4.637	4.637	4.637	4.637	4.637	4.637	4.607-4.667	4.637	0.000
	8 beta-BHC	4.718	4.718	4.717	4.717	4.717	4.717	4.717	4.718	4.688-4.748	4.717	0.001
	9 delta-BHC	4.902	4.902	4.902	4.902	4.901	4.901	4.901	4.902	4.873-4.933	4.902	0.001
	10 Heptachlor	5.125	5.125	5.125	5.125	5.125	5.125	5.124	5.125	5.095-5.155	5.125	0.000
	11 Aldrin	5.449	5.449	5.449	5.449	5.449	5.448	5.448	5.449	5.419-5.479	5.449	0.000
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	6.127	6.125	6.125	6.125	6.125	6.125	6.125	6.127	6.097-6.157	6.125	0.001
	15 cis-Chlordane	6.414	6.414	6.414	6.413	6.413	6.414	6.413	6.414	6.384-6.444	6.414	0.000
	16 trans-Chlordane	6.267	6.267	6.267	6.267	6.267	6.266	6.266	6.267	6.237-6.297	6.267	0.000
	17 Endosulfan I	6.568	6.567	6.567	6.568	6.567	6.567	6.567	6.568	6.538-6.598	6.567	0.000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	6.491	6.490	6.489	6.490	6.490	6.489	6.489	6.491	6.461-6.521	6.490	0.001
	19 Dieldrin	6.828	6.828	6.828	6.828	6.828	6.829	6.828	6.828	6.798-6.858	6.828	0.000
	20 Endrin	7.079	7.079	7.078	7.078	7.078	7.078	7.078	7.079	7.049-7.109	7.078	0.000
	21 4,4'-DDD	7.138	7.138	7.137	7.137	7.137	7.137	7.136	7.138	7.108-7.168	7.137	0.001
	22 Endosulfan II	7.315	7.315	7.315	7.315	7.314	7.314	7.314	7.315	7.285-7.345	7.315	0.000
	23 4,4'-DDT	7.431	7.431	7.431	7.431	7.431	7.431	7.431	7.431	7.401-7.461	7.431	0.000
	24 Endrin aldehyde	7.744	7.743	7.743	7.743	7.743	7.743	7.743	7.744	7.714-7.774	7.743	0.000
	25 Methoxychlor	7.920	7.920	7.919	7.920	7.920	7.920	7.920	7.920	7.890-7.950	7.920	0.000
	26 Endosulfan sulfate	8.178	8.178	8.177	8.177	8.178	8.178	8.177	8.178	8.148-8.208	8.178	0.000
	27 Endrin ketone	8.453	8.453	8.452	8.452	8.452	8.452	8.452	8.453	8.423-8.482	8.452	0.000
$	28 Decachlorobiphenyl	9.367	9.367	9.366	9.366	9.366	9.367	9.366	9.367	9.337-9.397	9.366	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.430	7.400-7.460	+++++	+++++
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.682	6.652-6.712	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.959	6.929-6.989	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.010	5.980-6.040	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.396	6.366-6.426	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.086	8.056-8.116	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041211	23041212	23041213	23041214	23041215	23041216	23041217
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	17:43	18:02	18:20	18:38	18:57	19:15	19:34

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.309	2.279-2.339	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.138	3.108-3.168	3.138	0.000
*	3 Hexabromobiphenyl	9.516	9.516	9.516	9.516	9.516	9.516	9.516	9.516	9.486-9.546	9.516	0.000
$	4 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.819	3.789-3.849	+++++	+++++
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.175	4.145-4.205	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.333	4.303-4.363	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.637	4.607-4.667	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.717	4.687-4.747	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.901	4.871-4.931	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.124	5.094-5.154	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.448	5.418-5.478	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.125	6.095-6.155	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.413	6.383-6.443	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.266	6.236-6.296	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.567	6.537-6.597	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.828	6.798-6.858	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.078	7.048-7.108	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.136	7.106-7.166	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.314	7.284-7.344	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.431	7.401-7.461	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.743	7.713-7.773	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.920	7.890-7.950	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.177	8.147-8.207	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.452	8.422-8.482	+++++	+++++
$	28 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.366	9.336-9.396	+++++	+++++
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.430	7.400-7.460	+++++	+++++
	39 2,4-DDE	+++++	6.106	6.106	6.106	6.106	6.106	6.105	6.106	6.076-6.136	6.106	0.001

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	6.682	6.682	6.682	6.681	6.681	6.681	6.682	6.652-6.712	6.681	0.000
41 2,4-DDT	+++++	6.959	6.959	6.960	6.959	6.958	6.959	6.959	6.929-6.989	6.959	0.000
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	6.010	6.009	6.010	6.010	6.010	6.009	6.010	5.980-6.040	6.010	0.000
44 trans-Nonachlor	+++++	6.396	6.396	6.396	6.396	6.395	6.395	6.396	6.366-6.426	6.395	0.000
45 cis-Nonachlor	+++++	7.112	7.112	7.112	7.112	7.112	7.112	7.112	7.082-7.142	7.112	0.000
46 Mirex	+++++	8.086	8.086	8.086	8.086	8.086	8.086	8.086	8.056-8.116	8.086	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041204	23041205	23041206	23041207	23041208	23041209	23041210
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	15:34	15:53	16:11	16:30	16:48	17:06	17:25

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	2.452	2.452	2.452	2.452	2.452	2.453	2.453	2.453	2.423-2.483	2.452	0.000
*	2 1Bromo-2nitrobenzene [	3.287	3.288	3.287	3.288	3.287	3.287	3.288	3.287	3.257-3.317	3.288	0.000
*	3 Hexabromobiphenyl[C]	10.870	10.870	10.869	10.869	10.870	10.870	10.870	10.869	10.839-10.899	10.870	0.000
$	4 Tetrachloro-m-xylene [	4.136	4.136	4.136	4.136	4.136	4.136	4.136	4.136	4.106-4.166	4.136	0.000
	5 Hexachlorobenzene [C]	4.622	4.622	4.622	4.623	4.622	4.623	4.622	4.622	4.592-4.652	4.622	0.000
	6 alpha-BHC [C]	4.761	4.762	4.761	4.762	4.762	4.762	4.762	4.762	4.732-4.792	4.762	0.000
	7 gamma-BHC (Lindane) [C	5.152	5.152	5.151	5.152	5.152	5.152	5.152	5.152	5.122-5.182	5.152	0.000
	8 beta-BHC [C]	5.230	5.230	5.229	5.230	5.230	5.230	5.230	5.230	5.200-5.260	5.230	0.000
	9 delta-BHC [C]	5.578	5.577	5.576	5.577	5.577	5.577	5.577	5.577	5.547-5.607	5.577	0.000
	10 Heptachlor [C]	5.671	5.671	5.670	5.671	5.672	5.671	5.671	5.671	5.641-5.701	5.671	0.000
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	6.070	6.070	6.070	6.070	6.070	6.071	6.071	6.071	6.041-6.101	6.070	0.000
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	6.728	6.728	6.728	6.728	6.728	6.729	6.729	6.729	6.699-6.759	6.728	0.000
	15 cis-Chlordane [C]	7.099	7.100	7.099	7.099	7.100	7.100	7.100	7.100	7.070-7.130	7.100	0.000
	16 trans-Chlordane [C]	6.939	6.940	6.939	6.939	6.939	6.940	6.939	6.939	6.909-6.969	6.939	0.000
	17 Endosulfan I [C]	7.172	7.172	7.171	7.172	7.172	7.173	7.172	7.172	7.142-7.202	7.172	0.000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	7.257	7.257	7.257	7.257	7.257	7.257	7.257	7.257	7.227-7.287	7.257	0.000
	19 Dieldrin [C]	7.466	7.466	7.465	7.466	7.466	7.466	7.466	7.466	7.436-7.496	7.466	0.000
	20 Endrin [C]	7.789	7.790	7.789	7.790	7.789	7.790	7.790	7.790	7.760-7.820	7.790	0.000
	21 4,4'-DDD [C]	7.862	7.862	7.862	7.862	7.862	7.862	7.862	7.862	7.832-7.892	7.862	0.000
	22 Endosulfan II [C]	8.001	8.000	8.000	8.000	8.000	8.001	8.001	8.001	7.971-8.031	8.000	0.000
	23 4,4'-DDT [C]	8.180	8.180	8.180	8.180	8.181	8.181	8.181	8.181	8.151-8.211	8.180	0.000
	24 Endrin aldehyde [C]	8.331	8.331	8.330	8.331	8.331	8.332	8.331	8.331	8.301-8.361	8.331	0.000
	25 Endosulfan sulfate [C]	8.598	8.598	8.597	8.598	8.598	8.598	8.598	8.598	8.568-8.628	8.598	0.000
	26 Methoxychlor [C]	8.820	8.821	8.820	8.821	8.821	8.821	8.822	8.822	8.792-8.852	8.821	0.001
	27 Endrin ketone [C]	9.119	9.119	9.119	9.119	9.119	9.120	9.119	9.119	9.089-9.149	9.119	0.000
$	28 Decachlorobiphenyl [C]	10.306	10.306	10.305	10.305	10.306	10.306	10.306	10.306	10.276-10.336	10.306	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.440	7.410-7.470	+++++	+++++
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.921	6.891-6.951	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.477	7.447-7.507	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.799	7.769-7.829	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.624	6.594-6.654	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.039	7.009-7.069	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.859	7.829-7.889	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.101	9.071-9.131	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	23041211	23041212	23041213	23041214	23041215	23041216	23041217
INJ.DATE:	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023	12-APR-2023
INJ.TIME:	17:43	18:02	18:20	18:38	18:57	19:15	19:34

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.453	2.423-2.483	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.287	3.287	3.287	3.288	3.288	3.287	3.287	3.287	3.257-3.317	3.287	0.000
*	3 Hexabromobiphenyl[C]	10.870	10.870	10.870	10.870	10.870	10.870	10.870	10.869	10.839-10.899	10.870	0.000
$	4 Tetrachloro-m-xylene [	+++++	+++++	+++++	+++++	+++++	4.135	4.136	4.136	4.106-4.166	4.136	0.000
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.622	4.592-4.652	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.762	4.732-4.792	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.152	5.122-5.182	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.230	5.200-5.260	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.577	5.547-5.607	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.671	5.641-5.701	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.071	6.041-6.101	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.729	6.699-6.759	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.100	7.070-7.130	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.939	6.909-6.969	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.172	7.142-7.202	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.257	7.227-7.287	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.466	7.436-7.496	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.790	7.760-7.820	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.862	7.832-7.892	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.001	7.971-8.031	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.181	8.151-8.211	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.331	8.301-8.361	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.598	8.568-8.628	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.822	8.792-8.852	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.119	9.089-9.149	+++++	+++++
$	28 Decachlorobiphenyl [C]	+++++	+++++	+++++	10.309	10.309	10.309	10.308	10.306	10.276-10.336	10.309	0.001
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.440	7.410-7.470	+++++	+++++
	39 2,4-DDE [C]	6.922	6.921	6.921	6.922	6.921	6.921	6.921	6.921	6.891-6.951	6.921	0.000

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	7.477	7.477	7.477	7.476	7.476	7.476	7.477	7.477	7.447-7.507	7.476	0.000
41 2,4-DDT [C]	7.799	7.798	7.799	7.799	7.799	7.798	7.799	7.799	7.769-7.829	7.799	0.000
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	6.624	6.624	6.624	6.624	6.624	6.624	6.624	6.624	6.594-6.654	6.624	0.000
44 trans-Nonachlor [C]	7.039	7.038	7.039	7.039	7.039	7.039	7.039	7.039	7.009-7.069	7.039	0.000
45 cis-Nonachlor [C]	7.859	7.858	7.859	7.859	7.859	7.858	7.859	7.859	7.829-7.889	7.859	0.000
46 Mirex [C]	9.102	9.101	9.101	9.101	9.101	9.101	9.101	9.101	9.071-9.131	9.101	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20230412.b\23041218.D
Level 2: \\target\share\chem4\ecd6.i\20230412.b\23041219.D
Level 3: \\target\share\chem4\ecd6.i\20230412.b\23041220.D
Level 4: \\target\share\chem4\ecd6.i\20230412.b\23041221.D
Level 5: \\target\share\chem4\ecd6.i\20230412.b\23041222.D
Level 6: \\target\share\chem4\ecd6.i\20230412.b\23041223.D
Level 7: \\target\share\chem4\ecd6.i\20230412.b\23041224.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
1 Hexachlorobutadiene	2.06676	1.98551	1.84558	1.81938	1.70622	1.65553	1.55088	1.80426	10.110
5 Hexachlorobenzene	1.76245	1.68993	1.60717	1.57099	1.46814	1.41798	1.31954	1.54803	10.064
6 alpha-BHC	1.75845	1.79303	1.78792	1.82015	1.74640	1.71680	1.62244	1.74931	3.739
7 gamma-BHC (Lindane)	1.55969	1.58392	1.58235	1.59868	1.52927	1.49902	1.40784	1.53725	4.344
8 beta-BHC	0.78879	0.75698	0.71551	0.70150	0.66783	0.65017	0.60902	0.69854	8.893
9 delta-BHC	1.59762	1.62693	1.62475	1.65308	1.58886	1.54105	1.45446	1.58382	4.244
10 Heptachlor	1.55444	1.53135	1.49709	1.48384	1.38462	1.31527	1.19276	1.42277	9.267
11 Aldrin	1.52950	1.52030	1.51102	1.51498	1.42775	1.37062	1.25612	1.44718	7.111

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Chlorthalonil	*****	*****	*****	*****	*****	*****	*****	*****	*****
13 Heptachlor Epoxide a	*****	*****	*****	*****	*****	*****	*****	*****	*****
14 Heptachlor epoxide b	1.77461	1.35433	1.32261	1.30465	1.21044	1.14473	1.03248	1.30626	18.012
15 cis-Chlordane	1.38132	1.35475	1.32741	1.32583	1.25243	1.21449	1.12534	1.28308	7.051
16 trans-Chlordane	1.35410	1.33073	1.31479	1.32467	1.25766	1.22594	1.13926	1.27816	5.931
17 Endosulfan I	1.28039	1.25168	1.22150	1.21676	1.13336	1.07368	0.97393	1.16447	9.443
18 4,4'-DDE	1.24170	1.24927	1.22317	1.21706	1.13776	1.08081	0.98378	1.16194	8.584
19 Dieldrin	1.34743	1.34643	1.30489	1.29164	1.19395	1.12151	1.02037	1.23232	10.143
20 Endrin	1.57568	1.51238	1.45431	1.42357	1.32589	1.25651	1.12944	1.38254	11.211
21 4,4'-DDD	1.35634	1.32763	1.29400	1.28872	1.20844	1.16122	1.04973	1.24087	8.699
22 Endosulfan II	1.47728	1.43199	1.36585	1.33268	1.23064	1.17531	1.04873	1.29464	11.695

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT	1.46240	1.43318	1.38952	1.37913	1.29284	1.25728	1.14081	1.33645	8.438
24 Endrin aldehyde	1.14396	1.08101	1.04038	1.00916	0.93237	0.89937	0.81008	0.98805	11.597
25 Methoxychlor	0.70887	0.65387	0.60096	0.56348	0.51256	0.49735	0.47085	0.57256	15.240
26 Endosulfan sulfate	1.38827	1.35363	1.28002	1.24749	1.15302	1.11454	1.00702	1.22057	11.169
27 Endrin ketone	1.70062	1.57515	1.43531	1.38817	1.27796	1.24181	1.13023	1.39275	14.203
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 Aroclor-1232(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 Aroclor-1242(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(6)	*****	*****	*****	*****	*****	*****	*****	*****	*****
33 Aroclor-1248(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 Aroclor-1254(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
35 Aroclor-1260(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
36 Aroclor-1262(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
38 Toxaphene(1)	0.02964	0.03226	0.03521	0.03252	0.03126	0.02556	0.02076	0.02960	16.566
(2)	0.04237	0.04244	0.04595	0.04487	0.04047	0.03477	0.02651	0.03962	17.214
(3)	0.05862	0.05791	0.06487	0.06029	0.05391	0.04678	0.03584	0.05403	18.141
(4)	0.04172	0.04045	0.05069	0.04873	0.04618	0.04013	0.03028	0.04260	16.014
(5)	0.02406	0.02417	0.03063	0.02984	0.02781	0.02427	0.01877	0.02565	15.995

ARI Labs, Inc.

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Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
39 2,4-DDE	+++++	0.96271	0.96579	0.91868	0.86843	0.79752	0.70837	0.87025	11.664
40 2,4-DDD	+++++	0.88281	0.89873	0.85426	0.81245	0.75323	0.67816	0.81327	10.387
41 2,4-DDT	+++++	1.07731	1.07494	1.02816	0.97817	0.90679	0.81933	0.98078	10.395
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane	+++++	1.26894	1.32532	1.26543	1.20607	1.12176	1.02406	1.20193	9.252
44 trans-Nonachlor	+++++	1.54141	1.51800	1.46473	1.41186	1.32985	1.23122	1.41618	8.360
45 cis-Nonachlor	+++++	1.59233	1.57870	1.52677	1.47421	1.39620	1.29610	1.47739	7.740
46 Mirex	+++++	0.99781	0.99695	0.94201	0.89770	0.84639	0.78527	0.91102	9.320
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Chlordane (NOS)(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
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Quant Method : ISTD
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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
49 Trifluralin	#####	#####	#####	#####	#####	#####	#####	#####	#####
50 Dacthal	#####	#####	#####	#####	#####	#####	#####	#####	#####
51 Oxadiazon	#####	#####	#####	#####	#####	#####	#####	#####	#####
52 Kelthane	#####	#####	#####	#####	#####	#####	#####	#####	#####
53 Chlorpyrifos	#####	#####	#####	#####	#####	#####	#####	#####	#####
54 Methyl Parathion	#####	#####	#####	#####	#####	#####	#####	#####	#####
55 Ethyl Parathion	#####	#####	#####	#####	#####	#####	#####	#####	#####
56 Kepone	#####	#####	#####	#####	#####	#####	#####	#####	#####
57 1-Chloropyrene	#####	#####	#####	#####	#####	#####	#####	#####	#####
$ 4 Tetrachloro-m-xylene	1.25566	1.22780	1.18265	1.15804	1.07105	1.01536	0.92513	1.11939	10.740

ARI Labs, Inc.

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End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m
Last Edit : 13-Apr-2023 13:06 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
$ 28 Decachlorobiphenyl	1.22265	1.12837	0.97683	0.90966	0.82714	0.80277	0.73776	0.94360	18.860

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041218.D
Level 2: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041219.D
Level 3: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041220.D
Level 4: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041221.D
Level 5: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041222.D
Level 6: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041223.D
Level 7: \\target\share\chem4\ecd6.i\20230412.b\B20230412.b\23041224.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
						80.000 Level 7		
1 Hexachlorobutadiene [C]	1.68175	1.59096	1.60748	1.61038	1.49696	1.45925		
						1.33902	1.54083	7.539
5 Hexachlorobenzene [C]	1.63765	1.58192	1.53225	1.52323	1.42721	1.37840		
						1.29419	1.48212	8.145
6 alpha-BHC [C]	1.63462	1.67867	1.71056	1.77219	1.71975	1.71612		
						1.64801	1.69713	2.779
7 gamma-BHC (Lindane) [C]	1.48009	1.48711	1.51015	1.55733	1.49836	1.49181		
						1.41985	1.49210	2.737
8 beta-BHC [C]	0.74714	0.70583	0.68405	0.68422	0.64813	0.64123		
						0.60839	0.67414	6.802
9 delta-BHC [C]	1.48755	1.49763	1.52471	1.57911	1.52554	1.52030		
						1.44063	1.51078	2.809
10 Heptachlor [C]	1.37389	1.35320	1.35361	1.37453	1.29676	1.25563		
						1.15202	1.30852	6.247
11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++		
						+++++	+++++	

ARI Labs, Inc.

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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Aldrin [C]	1.39523	1.38135	1.39556	1.42793	1.36125	1.32392	1.22309	1.35833	4.993
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Heptachlor epoxide b [C]	1.56323	1.20249	1.18929	1.19890	1.12726	1.08936	0.99933	1.19569	14.872
15 cis-Chlordane [C]	1.19498	1.16010	1.15172	1.16525	1.10932	1.09197	1.02977	1.12902	4.952
16 trans-Chlordane [C]	1.19368	1.16300	1.16384	1.18747	1.13804	1.12279	1.05677	1.14651	4.085
17 Endosulfan I [C]	1.08731	1.05822	1.05274	1.06193	1.00305	0.97183	0.89638	1.01878	6.548
18 4,4'-DDE [C]	1.12212	1.12143	1.12052	1.12760	1.04668	0.99351	0.90867	1.06293	7.992
19 Dieldrin [C]	1.19866	1.18503	1.16992	1.16774	1.08900	1.04163	0.96463	1.11666	7.871
20 Endrin [C]	1.78067	1.74471	1.68317	1.66518	1.56413	1.46925	1.36399	1.61016	9.423
21 4,4'-DDD [C]	1.57958	1.54965	1.50467	1.51523	1.44353	1.39149	1.31906	1.47189	6.277
22 Endosulfan II [C]	1.67704	1.62917	1.57040	1.56415	1.47191	1.40267	1.33218	1.52108	8.159

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
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Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT [C]	1.60092	1.55757	1.51411	1.52351	1.44879	1.40898	1.34107	1.48499	6.076
24 Endrin aldehyde [C]	1.25337	1.18287	1.12863	1.11827	1.05217	1.01258	0.95076	1.09981	9.372
25 Endosulfan sulfate [C]	1.55683	1.49557	1.43410	1.42713	1.35325	1.30546	1.23196	1.40062	7.982
26 Methoxychlor [C]	0.75597	0.70472	0.65874	0.63180	0.58097	0.56318	0.56181	0.63674	11.732
27 Endrin ketone [C]	1.75477	1.67216	1.56779	1.54355	1.44756	1.39441	1.32623	1.52949	9.953
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 Aroclor-1232(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 Aroclor-1242(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
33 Aroclor-1248(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 Aroclor-1254(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
35 Aroclor-1260(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
36 Aroclor-1262(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(2)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(3)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(4)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(5)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
38 Toxaphene [C](1)	0.02960	0.02897	0.02869	0.02664	0.02372	0.02271		
	0.01995						0.02576	14.316
(2)	0.08918	0.08648	0.08486	0.07864	0.06865	0.06553		
	0.05881						0.07602	15.453
(3)	0.06792	0.06646	0.06603	0.06172	0.05457	0.05229		
	0.04648						0.05935	13.972
(4)	0.07276	0.07135	0.06974	0.06542	0.05866	0.05671		
	0.05156						0.06374	12.837
(5)	0.03882	0.03832	0.03789	0.03573	0.03246	0.03203		
	0.02918						0.03492	10.684
39 2,4-DDE [C]	0.75845	0.72899	0.70778	0.69440	0.65651	0.59759		
	0.53401						0.66825	11.787

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
40 2,4-DDD [C]	1.12937	1.06142	1.05101	1.01695	0.98327	0.92485		
	0.84627						1.00188	9.375
41 2,4-DDT [C]	1.28576	1.20894	1.19812	1.16271	1.12721	1.06684		
	0.96934						1.14556	9.038
42 Hexachloroethane [C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
43 Oxychlordane [C]	0.99553	0.97475	0.94837	0.94350	0.90717	0.84779		
	0.78529						0.91463	8.155
44 trans-Nonachlor [C]	1.85055	1.66441	1.77907	1.73821	1.69126	1.60386		
	1.46338						1.68439	7.480
45 cis-Nonachlor [C]	1.87416	1.79479	1.80526	1.78076	1.73947	1.66348		
	1.53301						1.74156	6.446
46 Mirex [C]	1.14525	1.09368	1.04777	0.99189	0.96224	0.92321		
	0.87240						1.00520	9.580
47 bis-(2-ethylhexyl) Phthalate	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
48 Chlordane (NOS) [C](1)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(2)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
(3)	*****	*****	*****	*****	*****	*****		
	*****						*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 12-APR-2023 15:34
End Cal Date : 12-APR-2023 21:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20230412.b\PEST.m\PESTB.m
Last Edit : 13-Apr-2023 12:43 ecd6.i
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	RRF	% RSD
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone [C]	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene [C]	1.21095	1.18796	1.16281	1.15216	1.06273	1.00371	0.92008	1.10006	9.801
$ 28 Decachlorobiphenyl [C]	1.11095	1.06919	1.03174	0.97149	0.89134	0.86176	0.82279	0.96561	11.420

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 23041203.D

Analysis Date: 12-APR-2023 15:16 Init. Calib. Date: 12-APR-2023

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.138	944928
4,4'-DDE	6.491	7178
Endrin	7.079	1094493
4,4'-DDD	7.138	----
4,4'-DDT	7.432	1044833
Endrin ketone	8.453	17361
Endrin aldehyde	7.745	11672
Hexabromobiphenyl	9.517	750693
Tetrachloro-m-xylene	3.820	499864
Decachlorobiphenyl	9.367	304586

DDT Percent Breakdown = 0.7 %
((7178+0) * 100)/(7178+0+1044833)

Endrin Percent Breakdown = 2.6 %
((11672+17361) * 100)/(11672+17361+1094493)

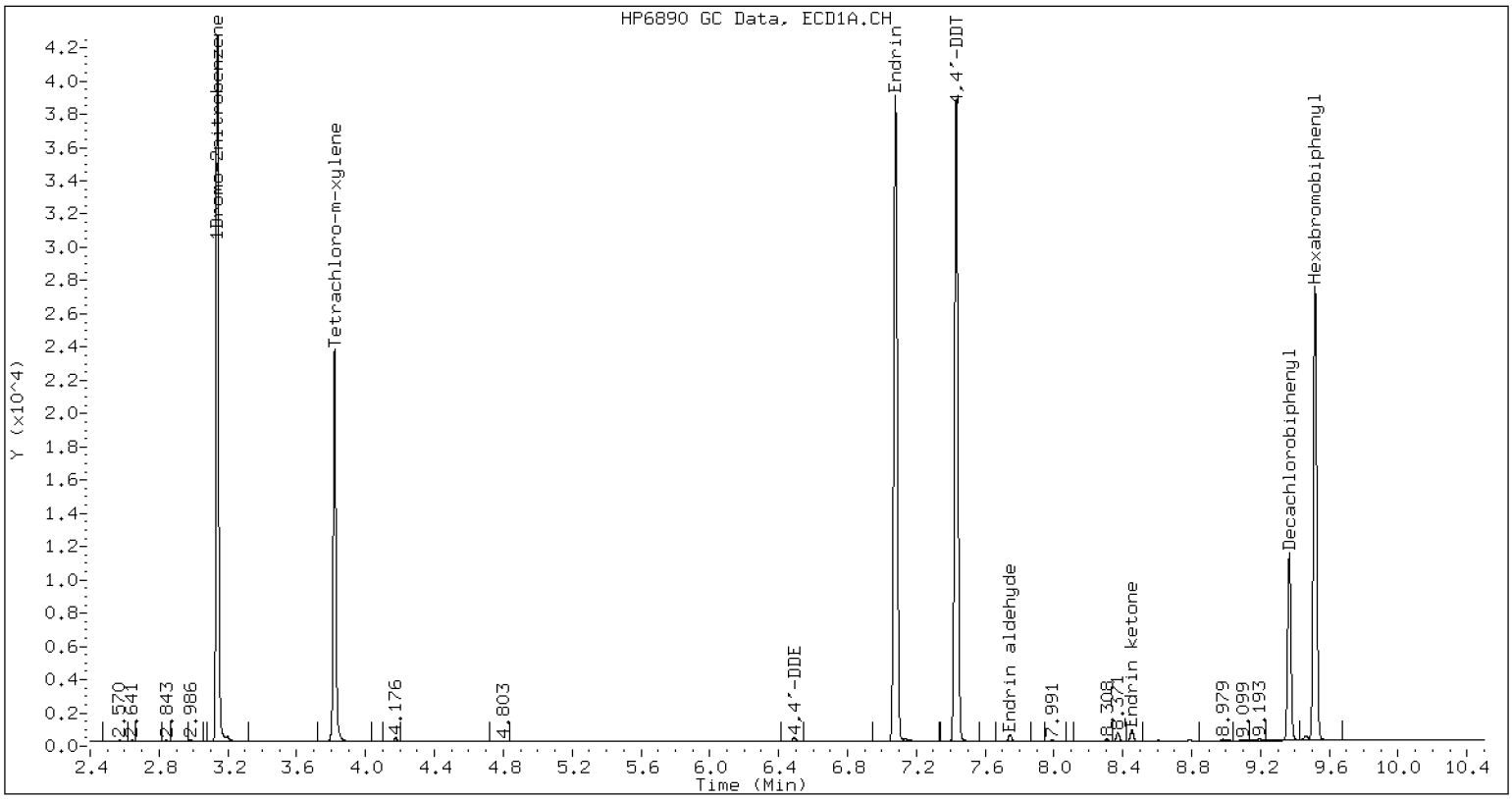
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.288	1250764
4,4'-DDE [C]	7.257	9310
Endrin [C]	7.790	1308045
4,4'-DDD [C]	7.862	32953
4,4'-DDT [C]	8.181	1208253
Endrin ketone [C]	9.119	16410
Endrin aldehyde [C]	8.332	13846
Hexabromobiphenyl[C]	10.870	749199
Tetrachloro-m-xylene [C]	4.136	659084
Decachlorobiphenyl [C]	10.306	328819

DDT Percent Breakdown = 3.4 %
((9310+32953) * 100)/(9310+32953+1208253)

Endrin Percent Breakdown = 2.3 %
((13846+16410) * 100)/(13846+16410+1308045)

/20230412.b/23041203.D SEQ-PEM1 STX-CLP 12-APR-2023 15:16 1ul



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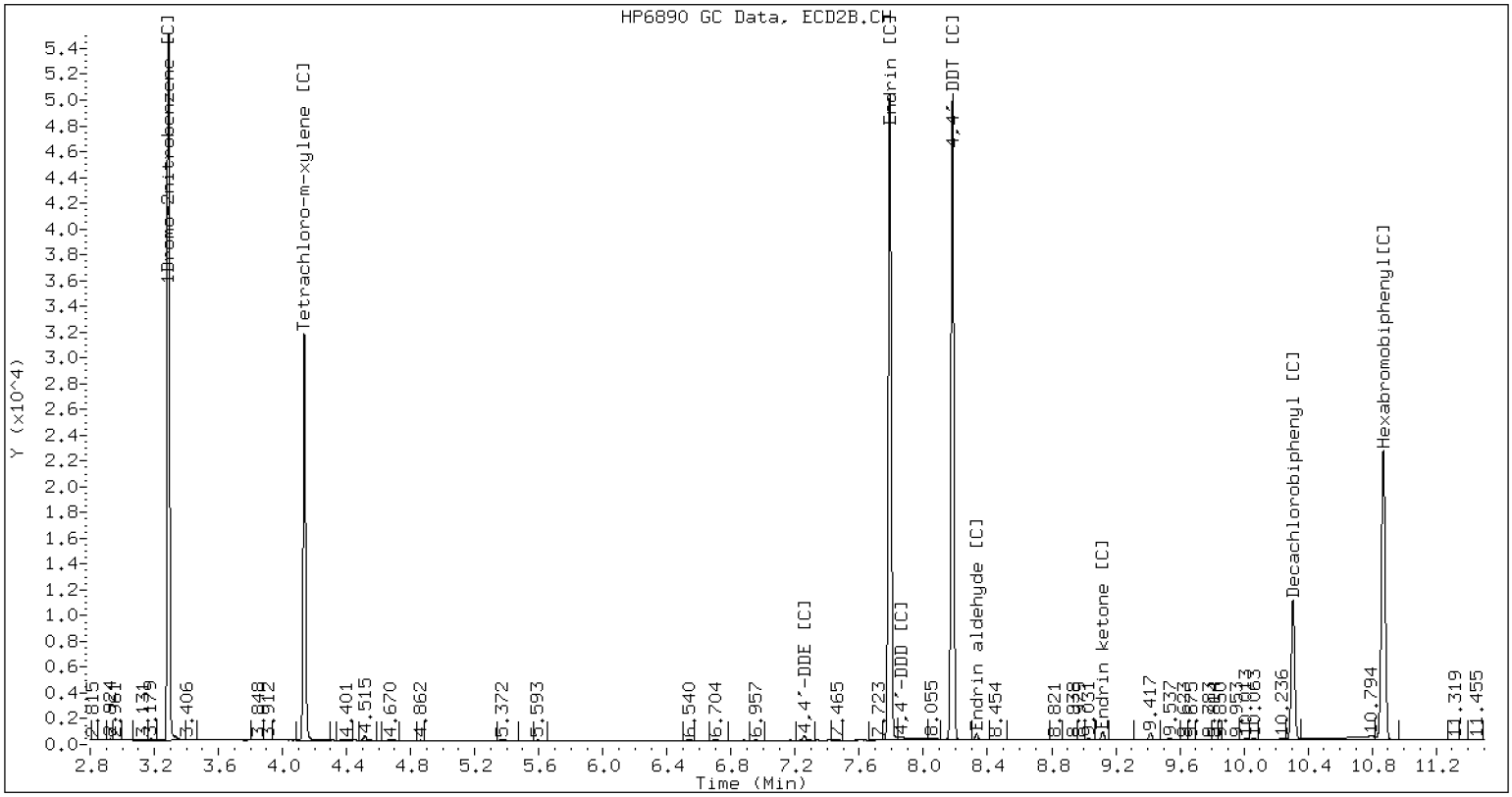

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041204.D
Data file 2: /20230412.b/B20230412.b/23041204.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 12-APR-2023 15:34
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	25454	4.761	-0.001	31321	1.26	1.20	4.3	alpha-BHC
4.718	0.000	11418	5.230	-0.000	14316	1.41	1.39	1.9	beta-BHC
4.902	0.000	23126	5.578	0.001	28503	1.26	1.23	2.4	delta-BHC
4.637	0.000	22577	5.152	-0.000	28360	1.27	1.24	2.3	gamma-BHC (Lindane)
5.125	0.000	22501	5.671	0.000	26325	1.37	1.31	4.0	Heptachlor
5.449	0.000	22140	6.070	-0.001	26734	1.32	1.28	2.9	Aldrin
6.127	0.000	25688	6.728	-0.001	29953	1.70	1.63	3.8	Heptachlor epoxide b
6.568	0.000	18534	7.172	0.000	20834	1.37	1.33	3.0	Endosulfan I
6.828	0.000	39009	7.466	0.000	45935	2.73	2.68	1.8	Dieldrin
6.491	0.000	35948	7.257	-0.000	43002	2.67	2.64	1.2	4,4'-DDE
7.079	0.000	36220	7.789	-0.001	40635	2.85	2.76	3.0	Endrin
7.315	0.000	33958	8.001	-0.000	38270	2.85	2.76	3.4	Endosulfan II
7.138	0.000	31178	7.862	0.000	36046	2.73	2.68	1.8	4,4'-DDD
8.178	0.000	31912	8.598	0.000	35527	2.84	2.78	2.3	Endosulfan sulfate
7.431	0.000	33616	8.180	-0.001	36533	2.74	2.70	1.5	4,4'-DDT
7.920	0.000	81474	8.820	-0.002	86256	15.48	14.84	4.2	Methoxychlor
8.453	0.000	39092	9.119	0.000	40044	3.05	2.87	6.2	Endrin ketone
7.744	0.000	26296	8.331	0.000	28602	2.89	2.85	1.6	Endrin aldehyde
6.267	0.000	19601	6.939	0.000	22872	1.32	1.30	1.7	trans-Chlordane
6.414	0.000	19995	7.099	-0.001	22897	1.35	1.32	1.7	cis-Chlordane
2.308	0.000	29917	2.452	-0.001	32224	1.43	1.36	4.8	Hexachlorobutadiene
4.175	0.000	25512	4.622	0.000	31379	1.42	1.38	3.0	Hexachlorobenzene
3.819	0.000	36352	4.136	-0.000	46406	2.80	2.75	1.9	Tetrachloro-m-xylene
9.367	0.000	28105	10.307	0.000	25352	3.24	2.88	11.9	Decachlorobiphenyl N

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	926418	7.2
Hexabromobiphenyl	663237	735580	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1226303	-17.2
Hexabromobiphenyl	870561	730241	-16.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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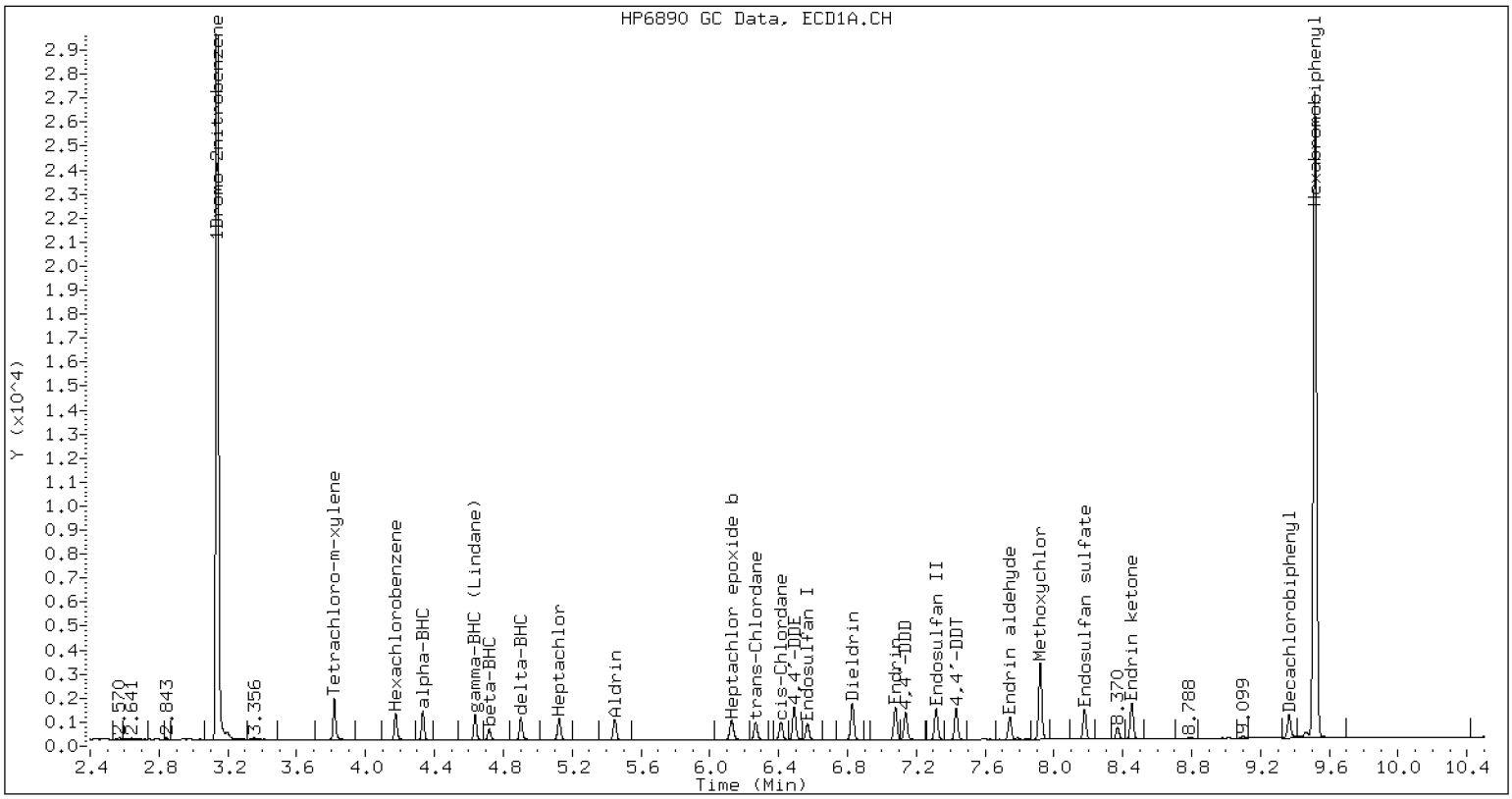

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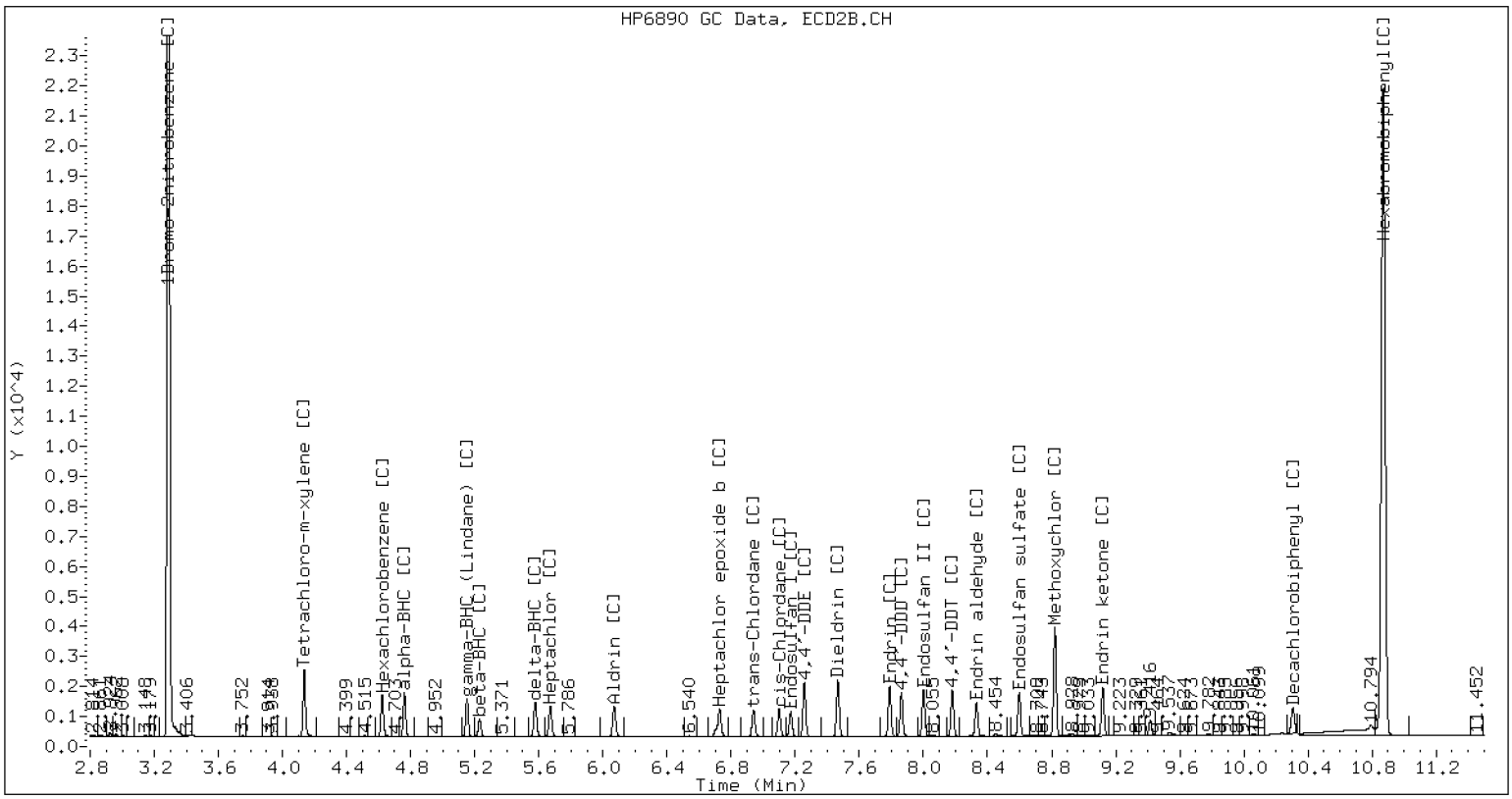
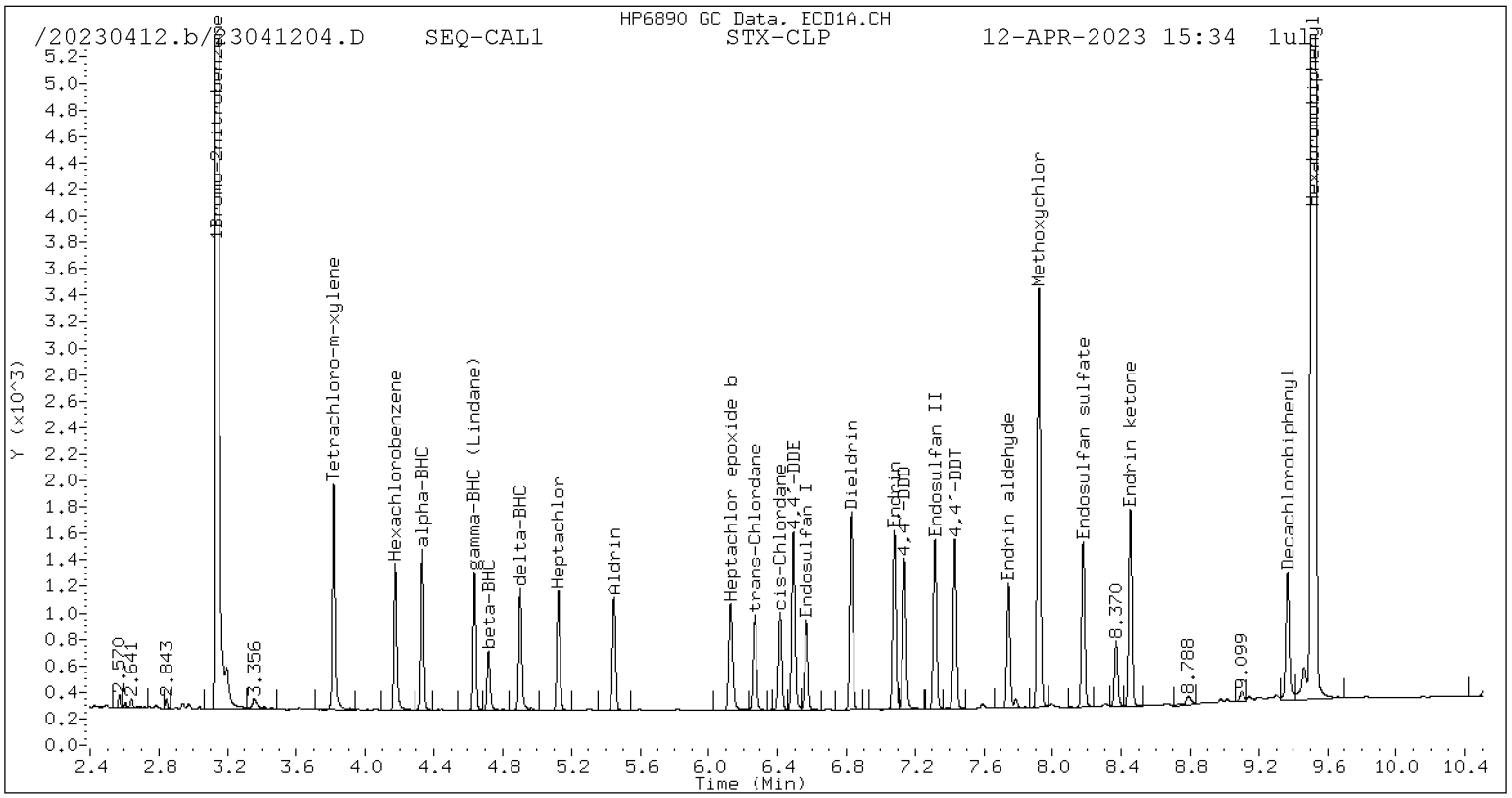
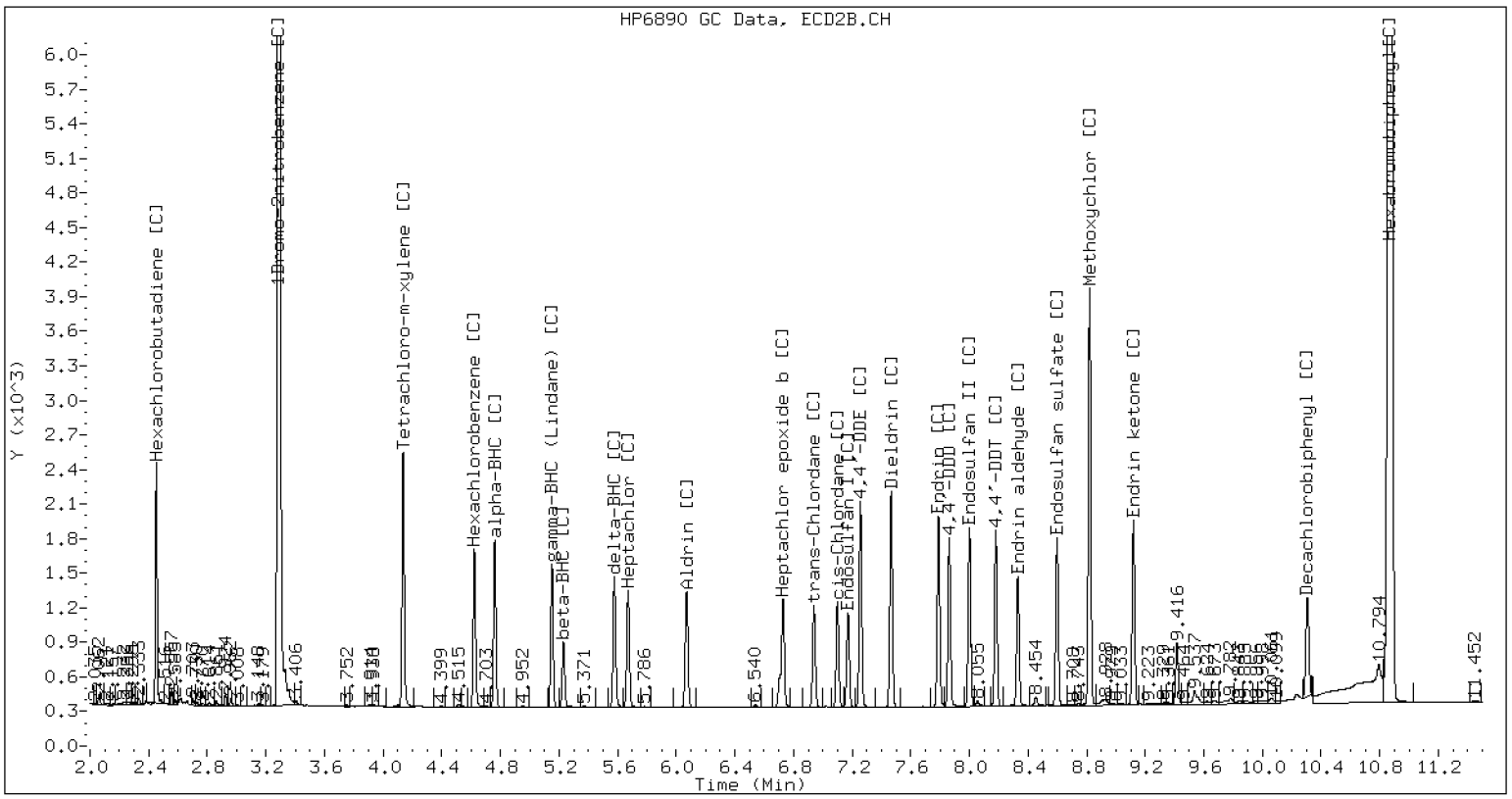


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

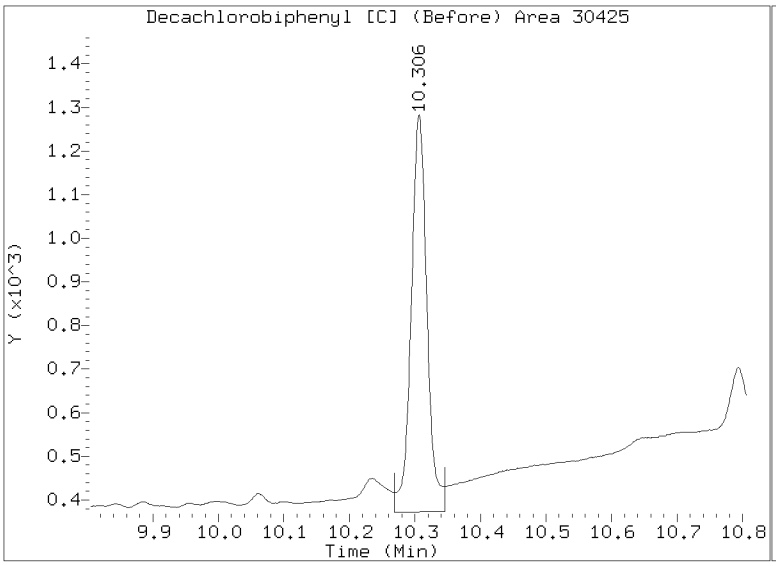
/20230412.b/B20230412.b/23041204.D SEQ-CAL1 CLP2

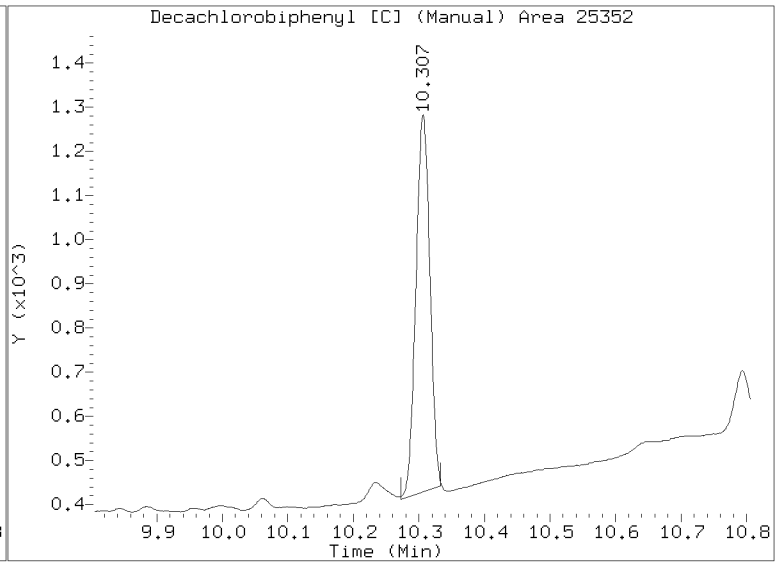


CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041204.D
Injection Date: 12-APR-2023 15:34
Lab ID:SEQ-CAL1 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041205.D
Data file 2: /20230412.b/B20230412.b/23041205.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 12-APR-2023 15:53
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.334	0.000	51739	4.762	-0.000	64823	2.56	2.47	3.6	alpha-BHC
4.718	-0.000	21843	5.230	-0.000	27256	2.71	2.62	3.4	beta-BHC
4.902	-0.001	46946	5.577	0.000	57832	2.57	2.48	3.6	delta-BHC
4.637	0.000	45705	5.152	-0.000	57426	2.58	2.49	3.3	gamma-BHC (Lindane)
5.125	0.000	44188	5.671	0.000	52255	2.69	2.59	4.0	Heptachlor
5.449	-0.000	43869	6.070	-0.001	53342	2.63	2.54	3.2	Aldrin
6.125	-0.002	39080	6.728	-0.001	46435	2.59	2.51	3.0	Heptachlor epoxide b
6.567	-0.001	36118	7.172	0.000	40864	2.69	2.60	3.4	Endosulfan I
6.828	-0.000	77704	7.466	0.000	91522	5.46	5.31	2.9	Dieldrin
6.490	-0.001	72097	7.257	0.000	86610	5.38	5.28	1.9	4,4'-DDE
7.079	-0.000	69966	7.790	-0.000	80652	5.47	5.42	1.0	Endrin
7.315	-0.000	66247	8.000	-0.001	75311	5.53	5.36	3.2	Endosulfan II
7.138	-0.000	61419	7.862	-0.000	71635	5.35	5.26	1.6	4,4'-DDD
8.178	0.000	62622	8.598	0.000	69135	5.55	5.34	3.8	Endosulfan sulfate
7.431	-0.000	66302	8.180	-0.001	72001	5.36	5.24	2.2	4,4'-DDT
7.920	-0.000	151246	8.821	-0.001	162884	28.55	27.67	3.1	Methoxychlor
8.453	0.000	72870	9.119	0.000	77298	5.65	5.47	3.4	Endrin ketone
7.743	-0.000	50010	8.331	0.000	54680	5.47	5.38	1.7	Endrin aldehyde
6.267	-0.000	38399	6.940	0.001	44910	2.60	2.54	2.6	trans-Chlordane
6.414	0.000	39092	7.100	-0.000	44798	2.64	2.57	2.7	cis-Chlordane
2.308	0.000	57293	2.452	-0.001	61436	2.75	2.58	6.4	Hexachlorobutadiene
4.175	-0.000	48764	4.622	0.000	61087	2.73	2.67	2.3	Hexachlorobenzene
3.820	0.000	70858	4.136	0.000	91748	5.48	5.40	1.6	Tetrachloro-m-xylene
9.367	-0.000	52201	10.306	-0.000	49425	5.98	5.54	7.7	Decachlorobiphenyl N

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	923378	6.8
Hexabromobiphenyl	663237	740194	11.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1235705	-16.6
Hexabromobiphenyl	870561	739625	-15.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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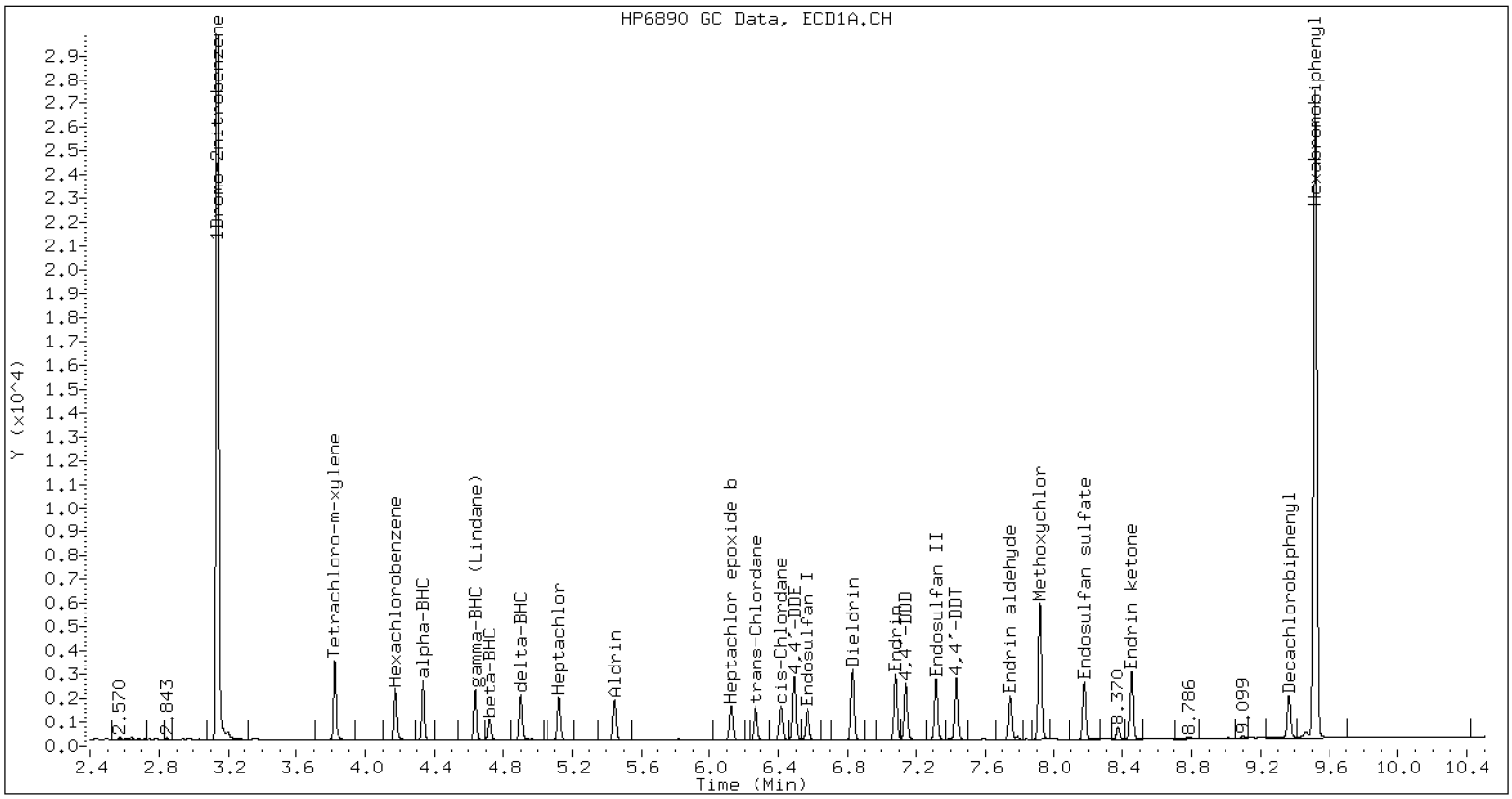

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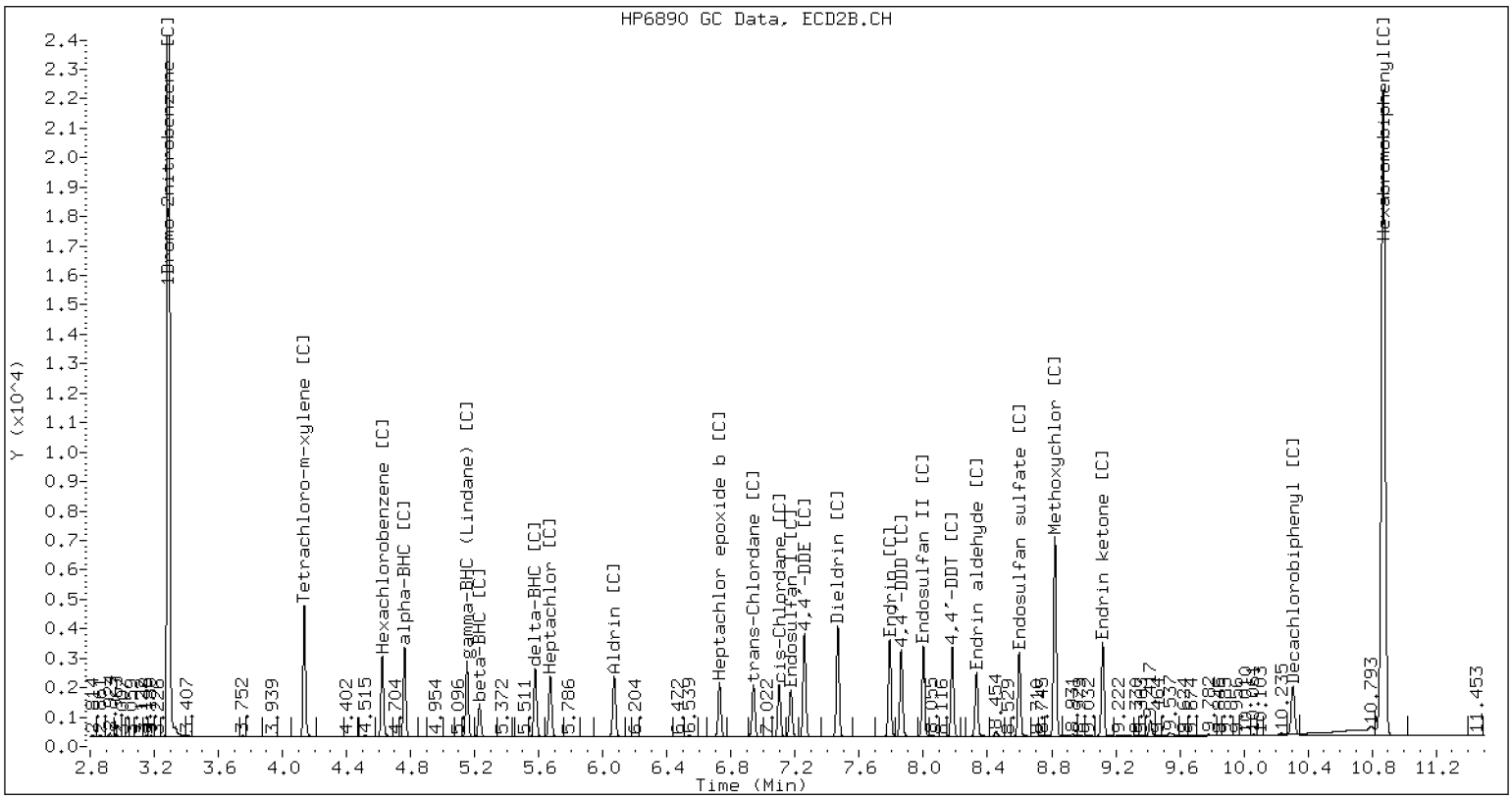
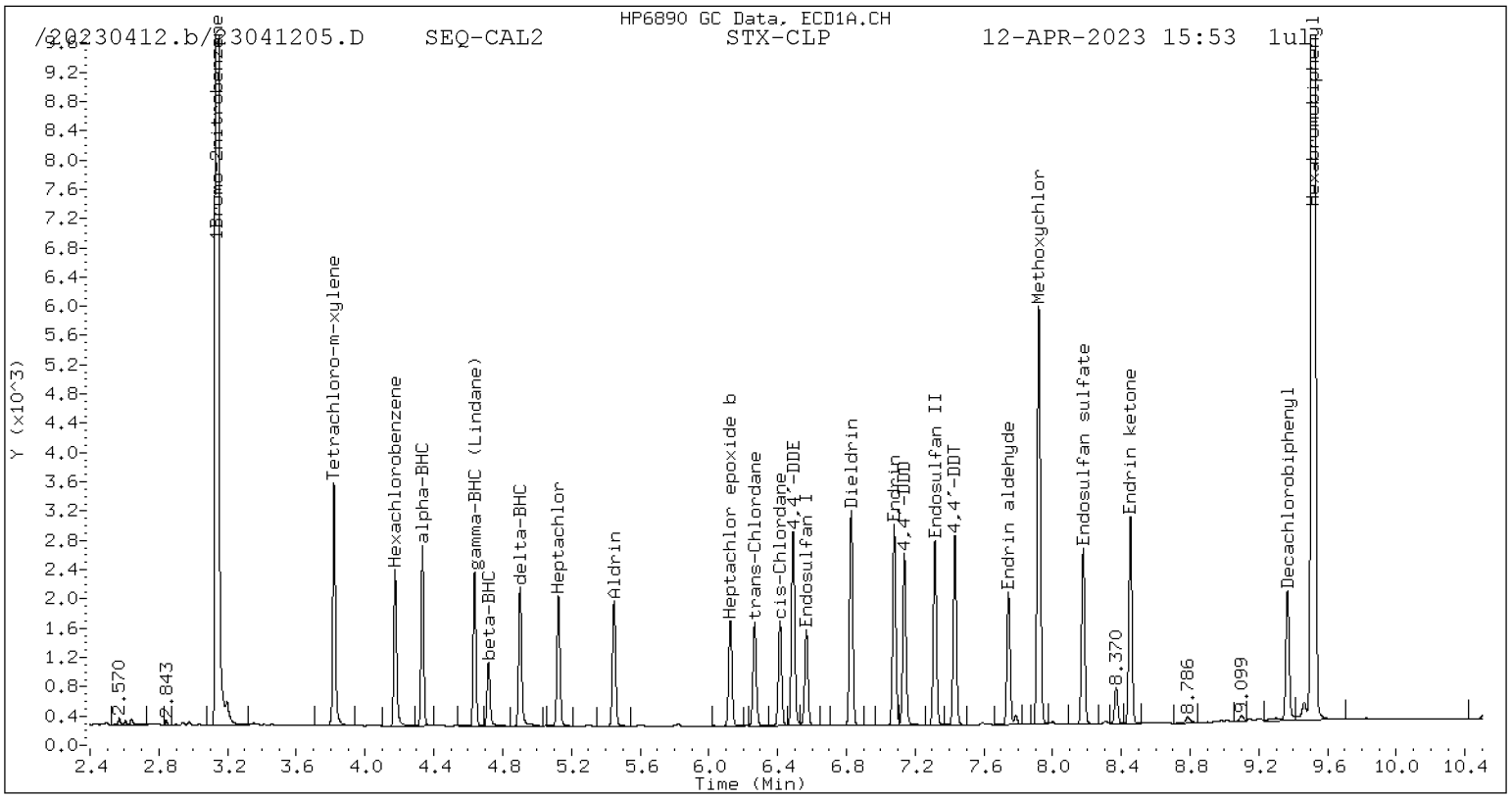
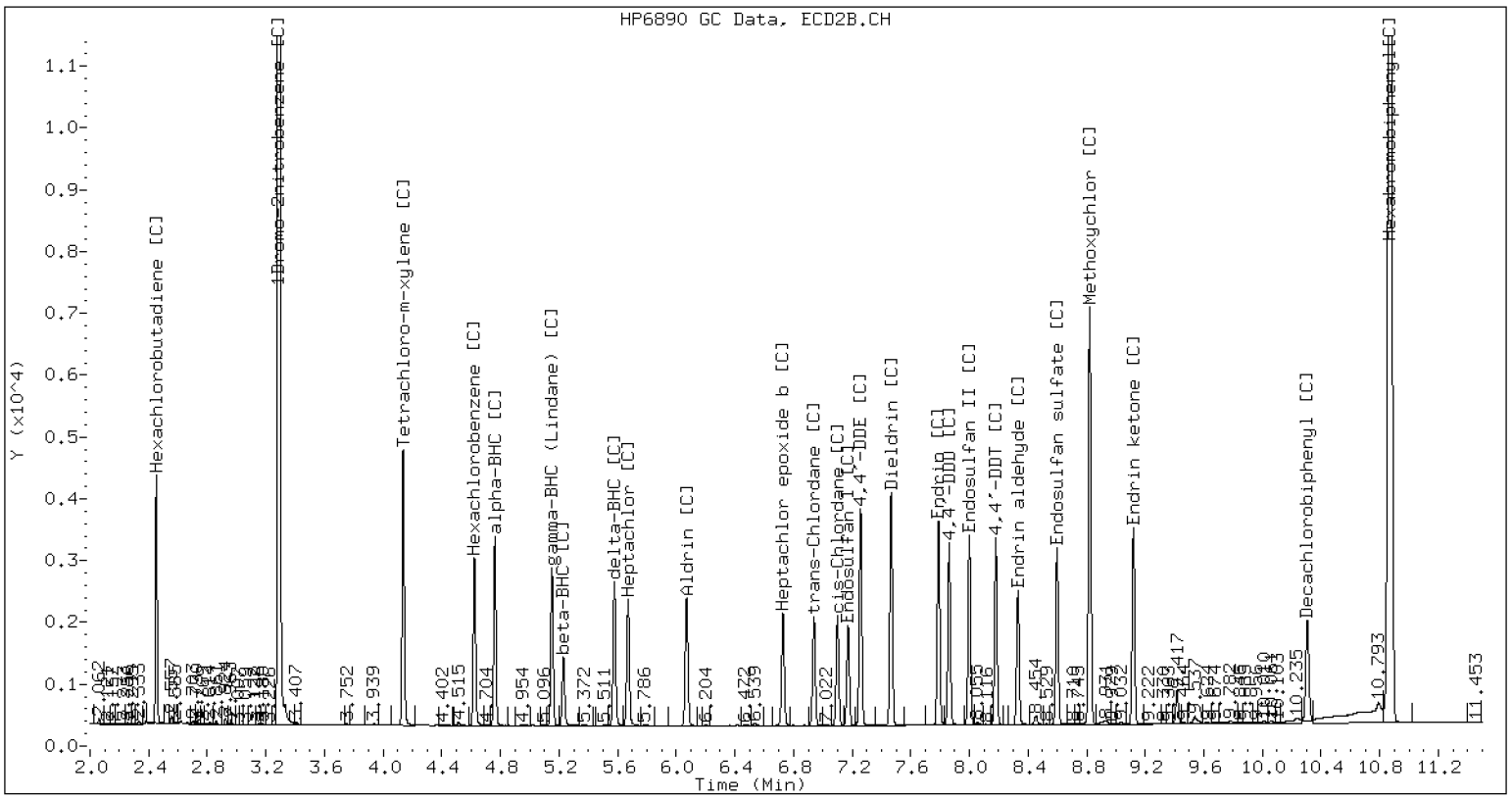


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

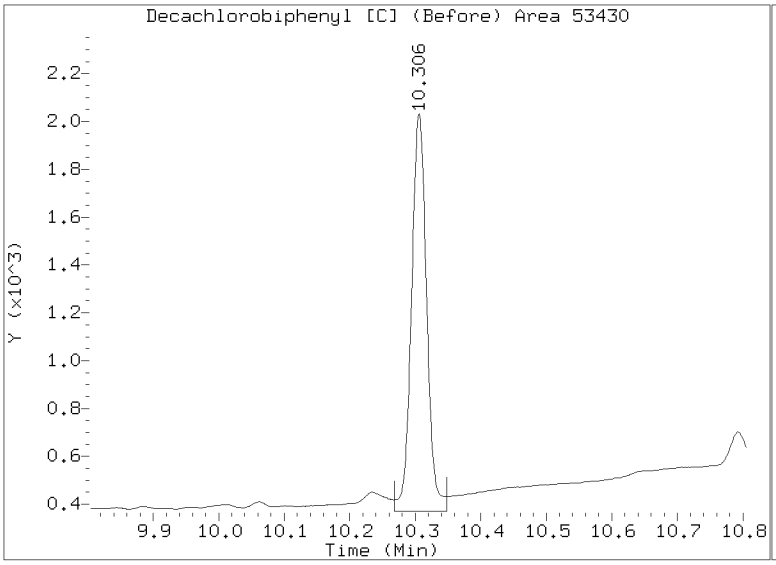
/20230412.b/B20230412.b/23041205.D SEQ-CAL2 CLP2

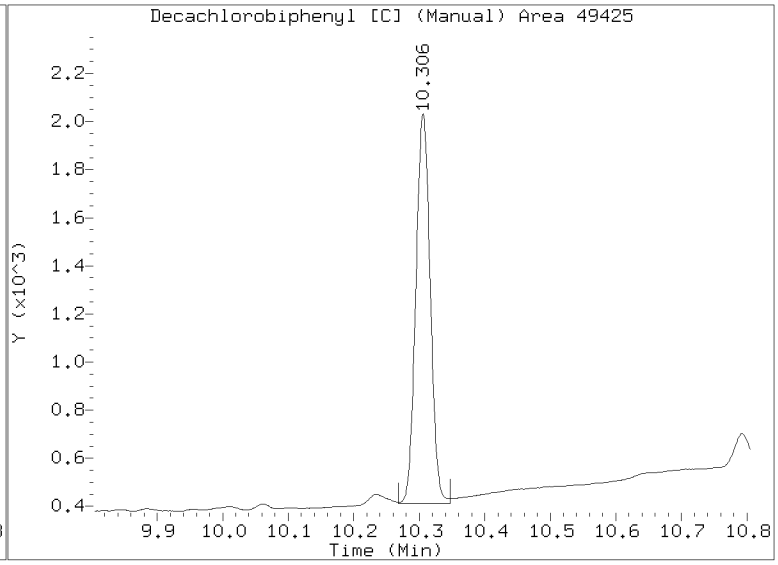


CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041205.D
Injection Date: 12-APR-2023 15:53
Lab ID:SEQ-CAL2 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041206.D
Data file 2: /20230412.b/B20230412.b/23041206.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 12-APR-2023 16:11
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	103568	4.761	-0.001	131810	5.11	5.04	1.4	alpha-BHC
4.717	-0.001	41447	5.229	-0.001	52711	5.12	5.07	0.9	beta-BHC
4.902	-0.001	94116	5.576	-0.001	117489	5.13	5.05	1.6	delta-BHC
4.637	0.000	91660	5.151	-0.001	116367	5.15	5.06	1.7	gamma-BHC (Lindane)
5.125	-0.000	86721	5.670	-0.001	104305	5.26	5.17	1.7	Heptachlor
5.449	-0.000	87528	6.070	-0.001	107537	5.22	5.14	1.6	Aldrin
6.125	-0.002	76614	6.728	-0.001	91643	5.06	4.97	1.8	Heptachlor epoxide b
6.567	-0.001	70757	7.171	-0.001	81121	5.24	5.17	1.5	Endosulfan I
6.828	-0.000	151176	7.465	-0.001	180300	10.59	10.48	1.1	Dieldrin
6.489	-0.001	141708	7.257	-0.000	172687	10.53	10.54	0.1	4,4'-DDE
7.078	-0.001	135408	7.789	-0.001	157942	10.52	10.45	0.6	Endrin
7.315	-0.001	127172	8.000	-0.001	147360	10.55	10.32	2.2	Endosulfan II
7.137	-0.001	120482	7.862	-0.000	141192	10.43	10.22	2.0	4,4'-DDD
8.177	-0.001	119181	8.597	-0.001	134570	10.49	10.24	2.4	Endosulfan sulfate
7.431	-0.001	129376	8.180	-0.001	142078	10.40	10.20	2.0	4,4'-DDT
7.919	-0.001	279773	8.820	-0.002	309068	52.48	51.73	1.4	Methoxychlor
8.452	-0.000	133639	9.119	-0.000	147115	10.31	10.25	0.5	Endrin ketone
7.743	-0.001	96868	8.330	-0.001	105906	10.53	10.26	2.6	Endrin aldehyde
6.267	-0.000	76161	6.939	-0.000	89682	5.14	5.08	1.3	trans-Chlordane
6.414	-0.000	76892	7.099	-0.001	88748	5.17	5.10	1.4	cis-Chlordane
2.308	0.000	106908	2.452	-0.001	123867	5.11	5.22	2.0	Hexachlorobutadiene
4.175	-0.000	93098	4.622	-0.000	118070	5.19	5.17	0.4	Hexachlorobenzene
3.819	-0.000	137014	4.136	-0.000	179204	10.57	10.57	0.0	Tetrachloro-m-xylene
9.366	-0.001	90951	10.305	-0.001	96814	10.35	10.68	3.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

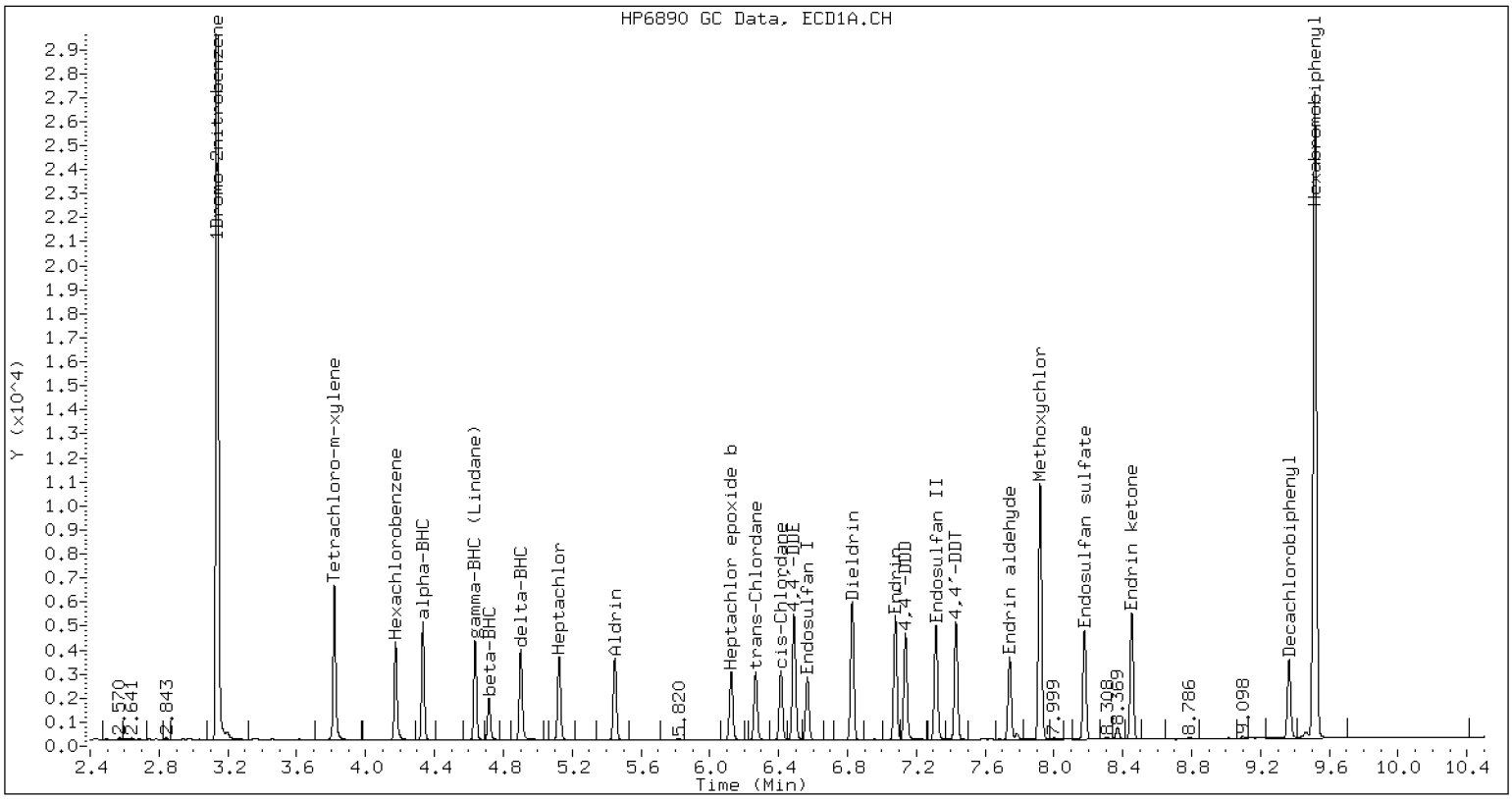
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	926824	7.2
Hexabromobiphenyl	663237	744867	12.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1232907	-16.7
Hexabromobiphenyl	870561	750687	-13.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041206.D SEQ-CAL3 STX-CLP 12-APR-2023 16:11 1ul



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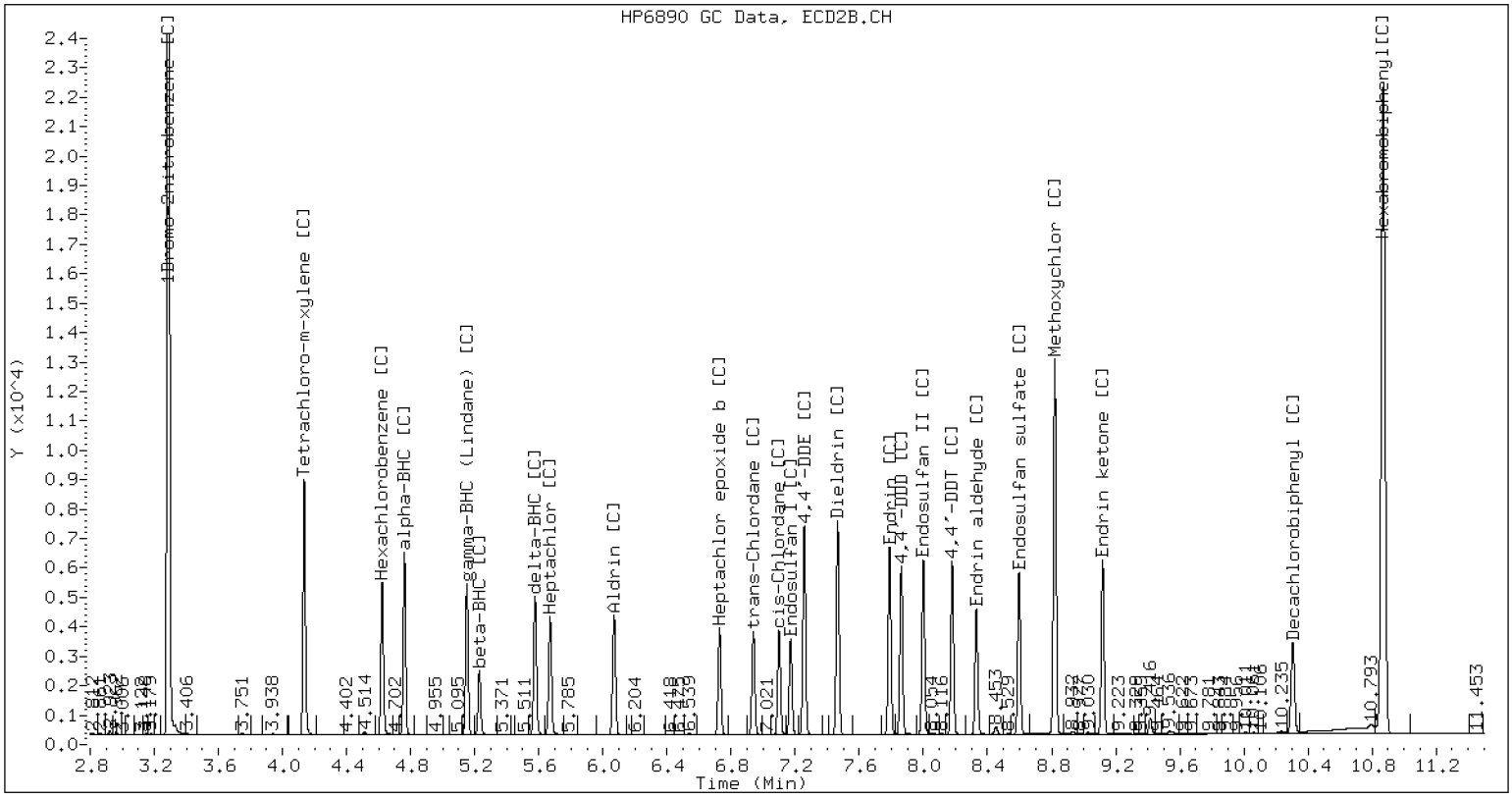
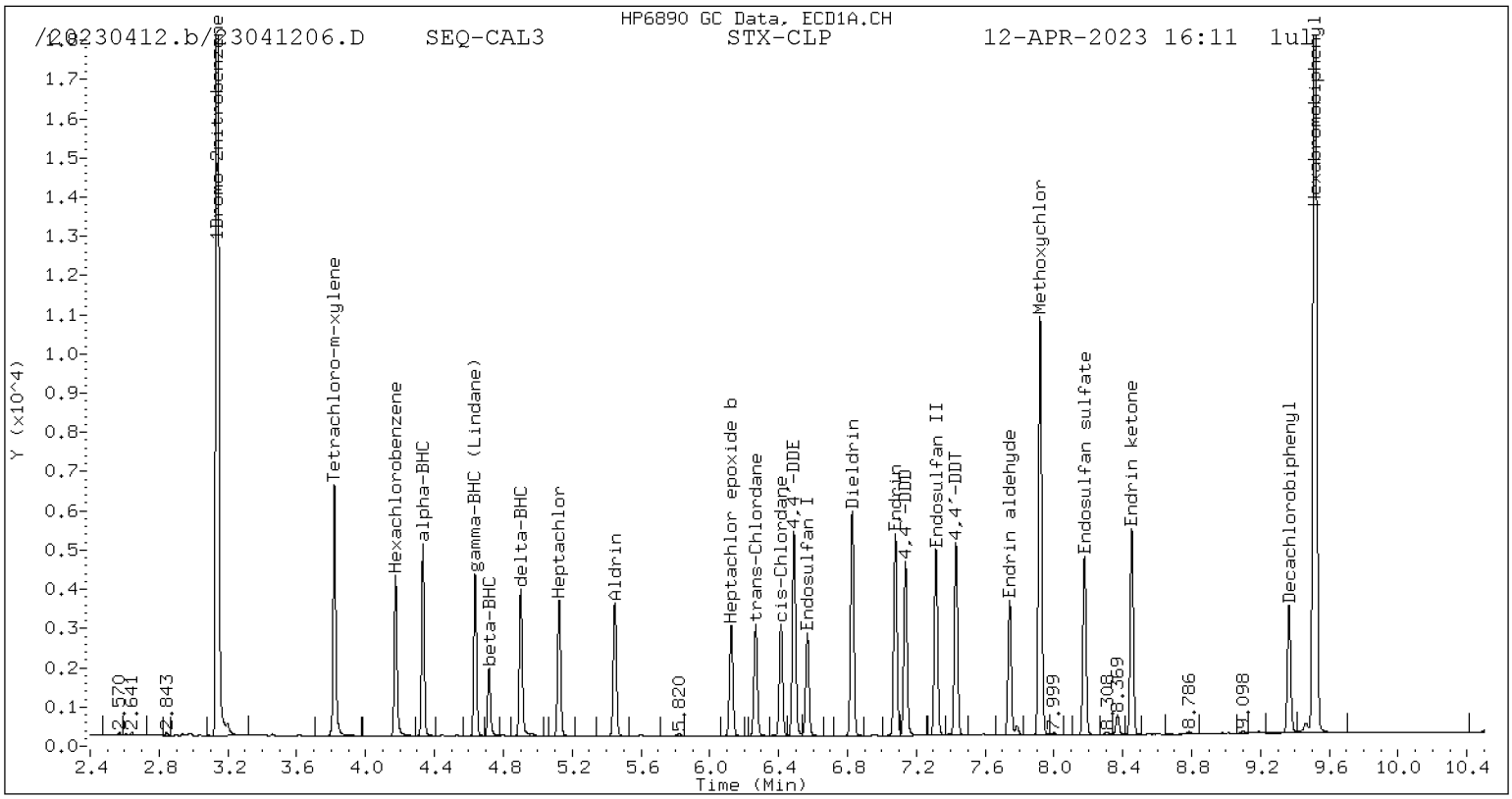
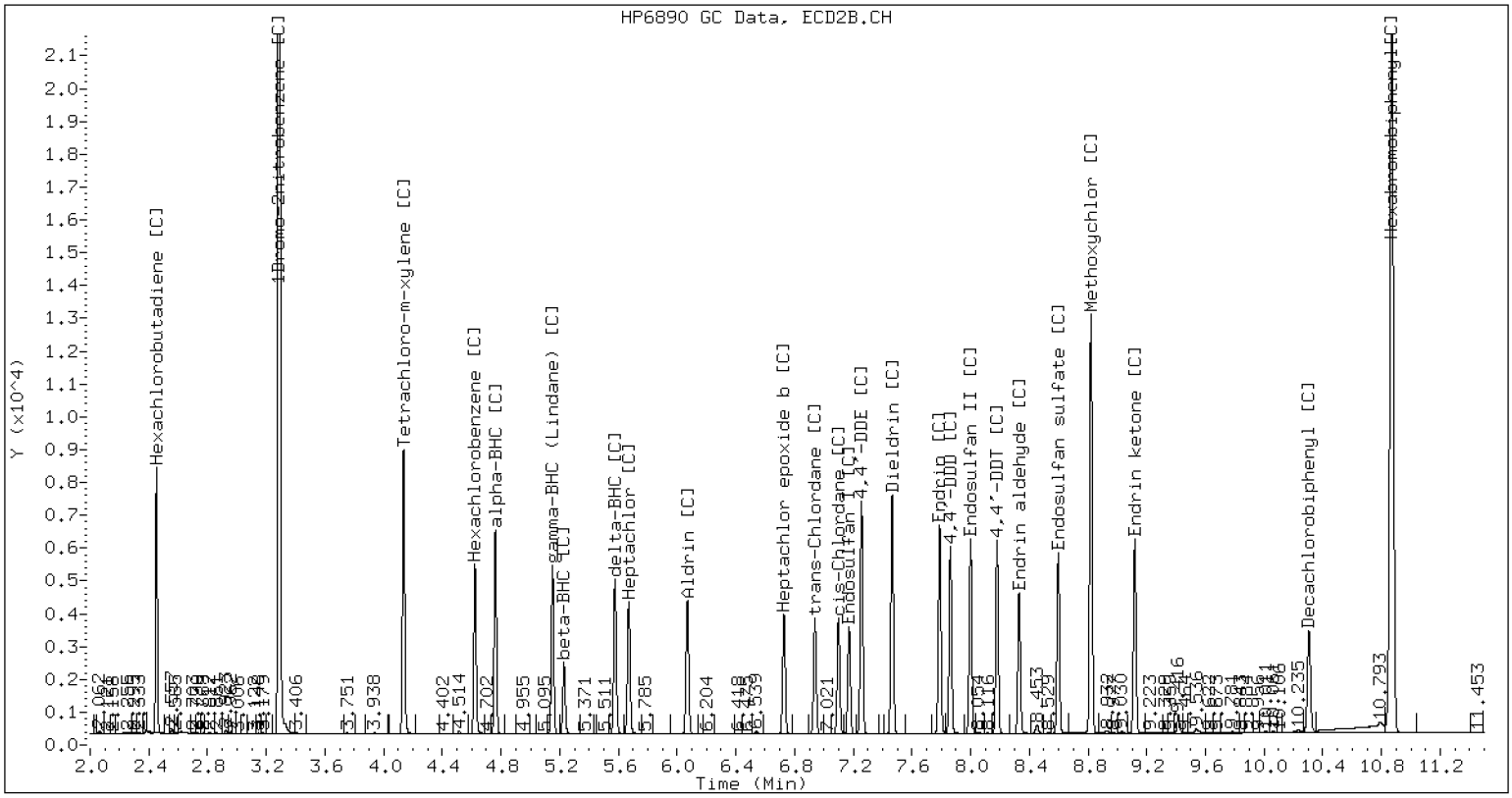


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041206.D SEQ-CAL3 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041207.D
Data file 2: /20230412.b/B20230412.b/23041207.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 12-APR-2023 16:30
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.334	0.001	407241	4.762	0.000	536848	19.97	20.27	1.5	alpha-BHC
4.717	-0.001	155730	5.230	-0.000	202325	19.12	19.23	0.6	beta-BHC
4.902	-0.001	370506	5.577	-0.000	476223	20.06	20.20	0.7	delta-BHC
4.637	0.000	356610	5.152	-0.000	467736	19.90	20.08	0.9	gamma-BHC (Lindane)
5.125	0.000	322878	5.671	-0.000	404806	19.46	19.82	1.8	Heptachlor
5.449	0.000	332937	6.070	-0.001	424935	19.73	20.04	1.6	Aldrin
6.125	-0.002	282261	6.728	-0.001	351893	18.53	18.86	1.7	Heptachlor epoxide b
6.568	-0.000	264288	7.172	-0.000	313117	19.47	19.69	1.2	Endosulfan I
6.828	0.000	556831	7.466	-0.000	679897	38.75	39.01	0.7	Dieldrin
6.490	-0.001	530626	7.257	-0.000	653476	39.17	39.39	0.6	4,4'-DDE
7.078	-0.000	494177	7.790	-0.000	590171	38.36	38.86	1.3	Endrin
7.315	-0.001	458674	8.000	-0.001	555378	38.02	38.71	1.8	Endosulfan II
7.137	-0.001	450400	7.862	0.000	544668	38.95	39.23	0.7	4,4'-DDD
8.177	-0.001	429746	8.598	-0.000	510603	37.79	38.65	2.3	Endosulfan sulfate
7.431	-0.000	481860	8.180	-0.001	546653	38.69	39.02	0.8	4,4'-DDT
7.920	-0.001	955187	8.821	-0.001	1096057	179.04	182.48	1.9	Methoxychlor
8.452	-0.000	476313	9.119	-0.000	546190	36.70	37.86	3.1	Endrin ketone
7.743	-0.000	347507	8.331	0.000	397001	37.75	38.27	1.4	Endrin aldehyde
6.267	-0.000	293273	6.939	0.000	355259	19.68	19.85	0.9	trans-Chlordane
6.413	-0.001	292054	7.099	-0.001	346293	19.52	19.65	0.7	cis-Chlordane
2.309	0.001	397872	2.452	-0.001	467299	18.91	19.43	2.7	Hexachlorobutadiene
4.175	0.000	342355	4.623	0.001	445526	18.97	19.26	1.5	Hexachlorobenzene
3.819	0.000	499517	4.136	0.000	663494	38.27	38.64	1.0	Tetrachloro-m-xylene
9.366	-0.001	308287	10.305	-0.001	336318	35.06	36.92	5.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

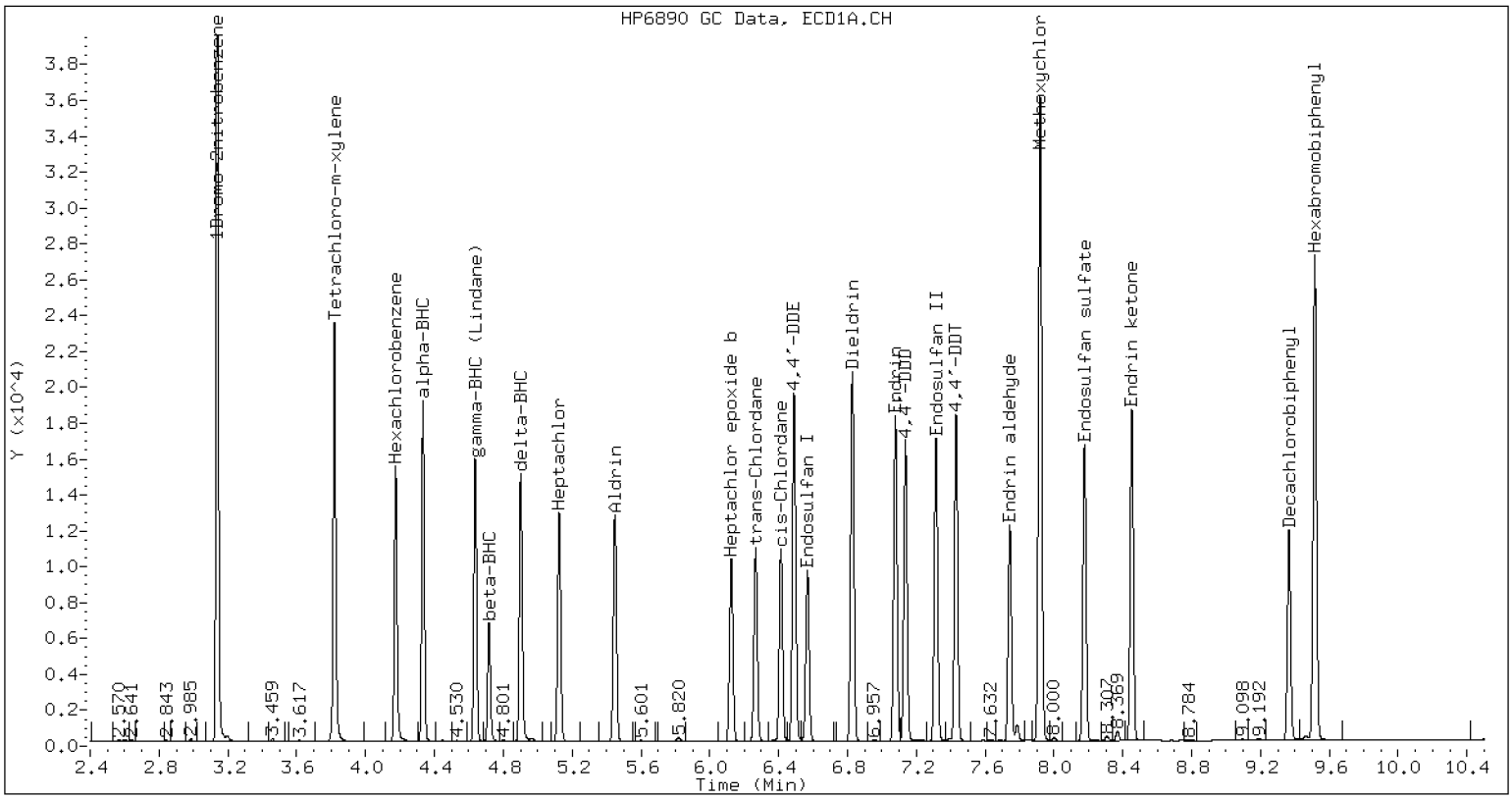
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	932757	7.9
Hexabromobiphenyl	663237	745426	12.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1248665	-15.7
Hexabromobiphenyl	870561	754634	-13.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041207.D SEQ-CAL5 STX-CLP 12-APR-2023 16:30 1ul



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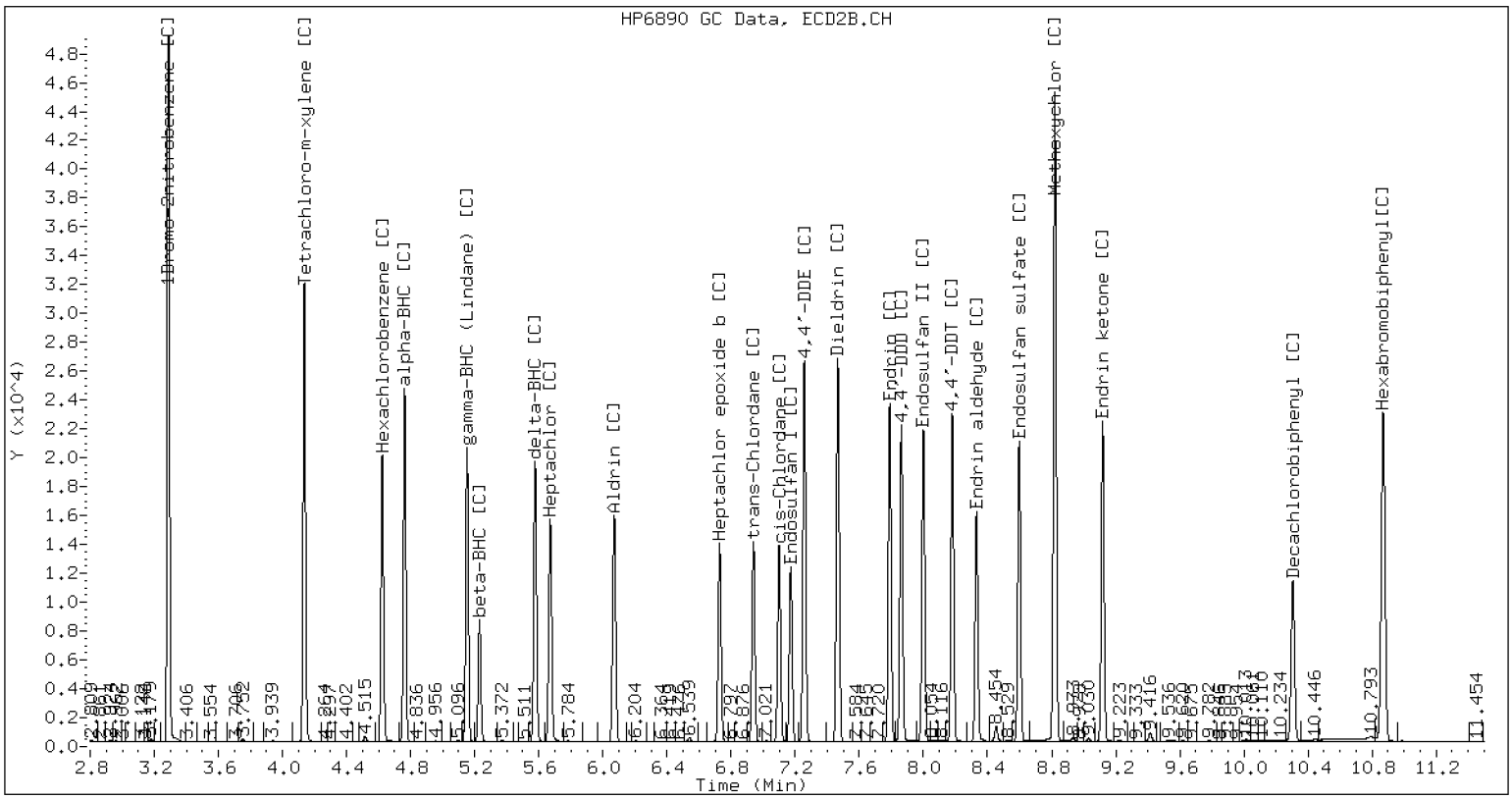
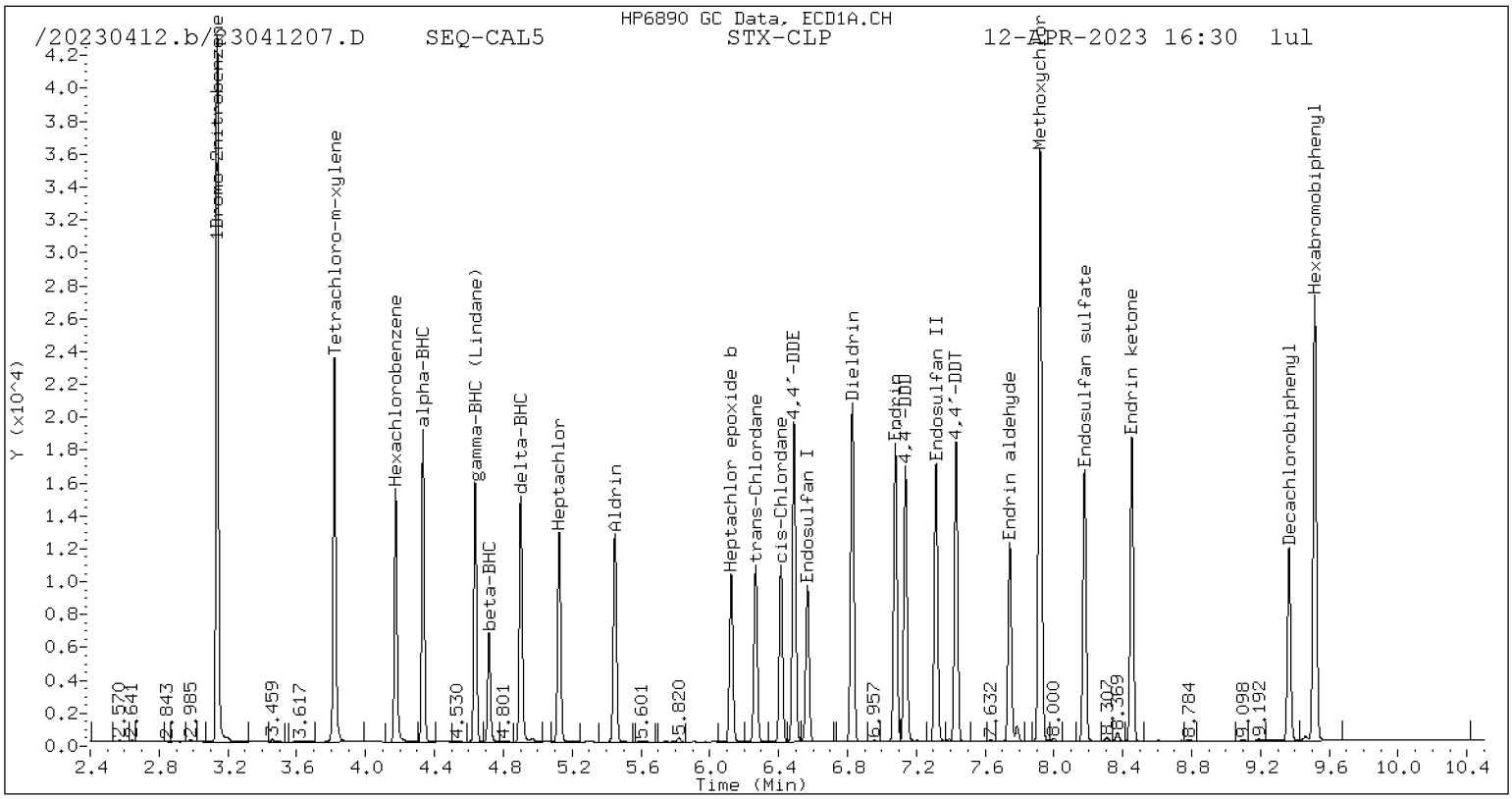
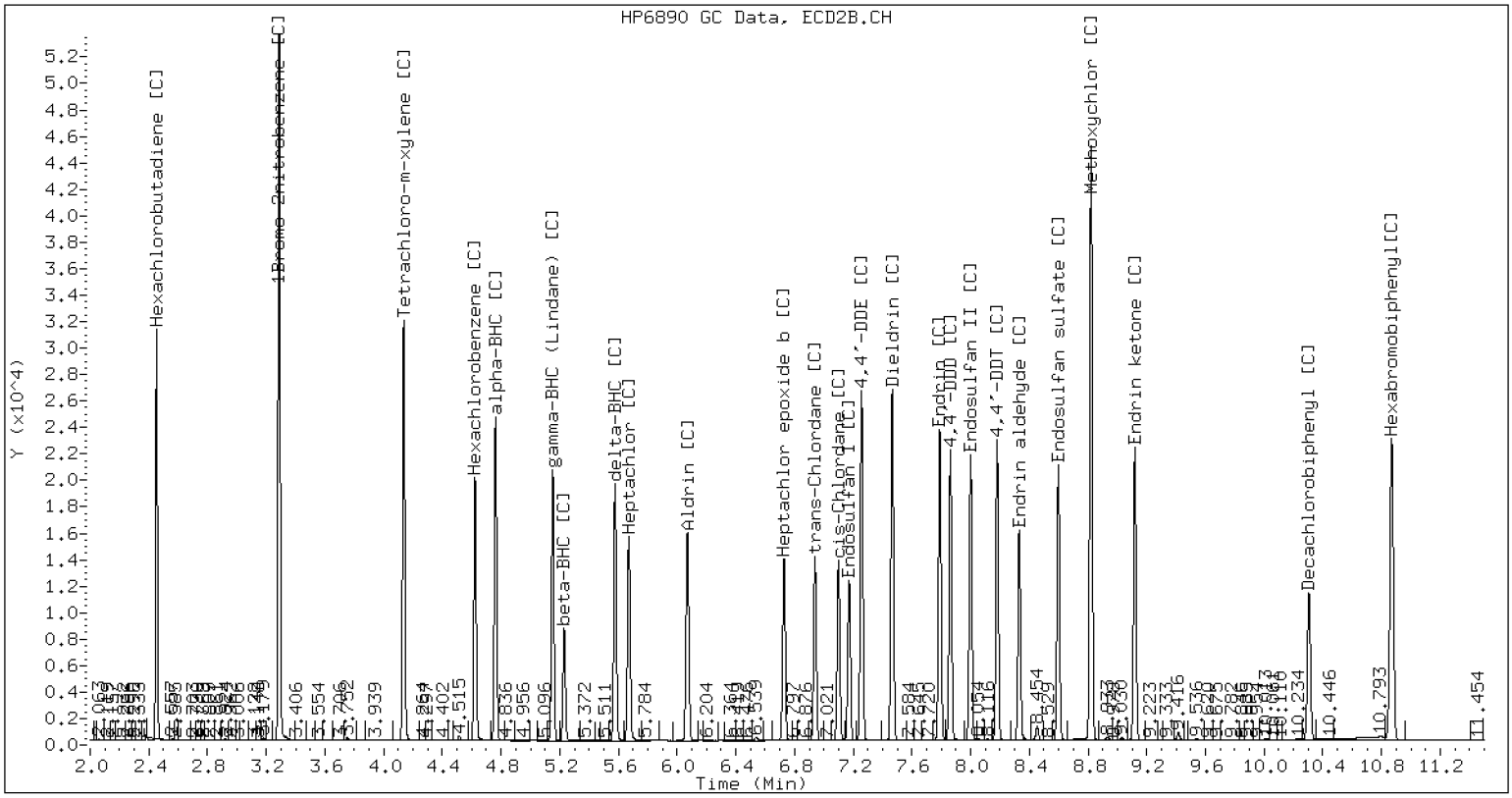


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041207.D SEQ-CAL5 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041208.D
Data file 2: /20230412.b/B20230412.b/23041208.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 12-APR-2023 16:48
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	207054	4.762	-0.000	269032	10.40	10.44	0.4	alpha-BHC
4.717	-0.001	79800	5.230	-0.000	103870	10.04	10.15	1.1	beta-BHC
4.901	-0.001	188049	5.577	0.000	239720	10.44	10.45	0.1	delta-BHC
4.637	0.000	181860	5.152	-0.000	236414	10.40	10.44	0.4	gamma-BHC (Lindane)
5.125	0.000	168797	5.672	0.001	208664	10.43	10.50	0.7	Heptachlor
5.449	0.000	172339	6.070	-0.001	216770	10.47	10.51	0.4	Aldrin
6.125	-0.002	148413	6.728	-0.001	182002	9.99	10.03	0.4	Heptachlor epoxide b
6.567	-0.001	138415	7.172	0.000	161209	10.45	10.42	0.2	Endosulfan I
6.828	-0.000	293866	7.466	0.000	354543	20.96	20.91	0.2	Dieldrin
6.490	-0.001	276898	7.257	0.000	342356	20.95	21.22	1.3	4,4'-DDE
7.078	-0.001	260570	7.789	-0.001	308995	20.59	20.68	0.4	Endrin
7.314	-0.001	243933	8.000	-0.001	290249	20.59	20.57	0.1	Endosulfan II
7.137	-0.001	235887	7.862	0.000	281171	20.77	20.59	0.9	4,4'-DDD
8.178	-0.000	228340	8.598	-0.000	264823	20.44	20.38	0.3	Endosulfan sulfate
7.431	-0.001	252435	8.181	-0.000	282707	20.64	20.52	0.6	4,4'-DDT
7.920	-0.000	515694	8.821	-0.001	586198	98.41	99.22	0.8	Methoxychlor
8.452	-0.000	254090	9.119	-0.000	286425	19.93	20.18	1.2	Endrin ketone
7.743	-0.001	184716	8.331	0.000	207509	20.43	20.34	0.4	Endrin aldehyde
6.267	-0.000	150690	6.939	0.000	180266	10.36	10.36	0.1	trans-Chlordane
6.413	-0.001	150822	7.100	-0.000	176894	10.33	10.32	0.1	cis-Chlordane
2.308	0.000	206966	2.452	-0.001	244467	10.08	10.45	3.6	Hexachlorobutadiene
4.175	-0.000	178711	4.622	-0.000	231238	10.15	10.28	1.3	Hexachlorobenzene
3.819	0.000	263469	4.136	-0.000	349814	20.69	20.95	1.2	Tetrachloro-m-xylene
9.366	-0.001	166503	10.306	-0.000	180273	19.28	20.12	4.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

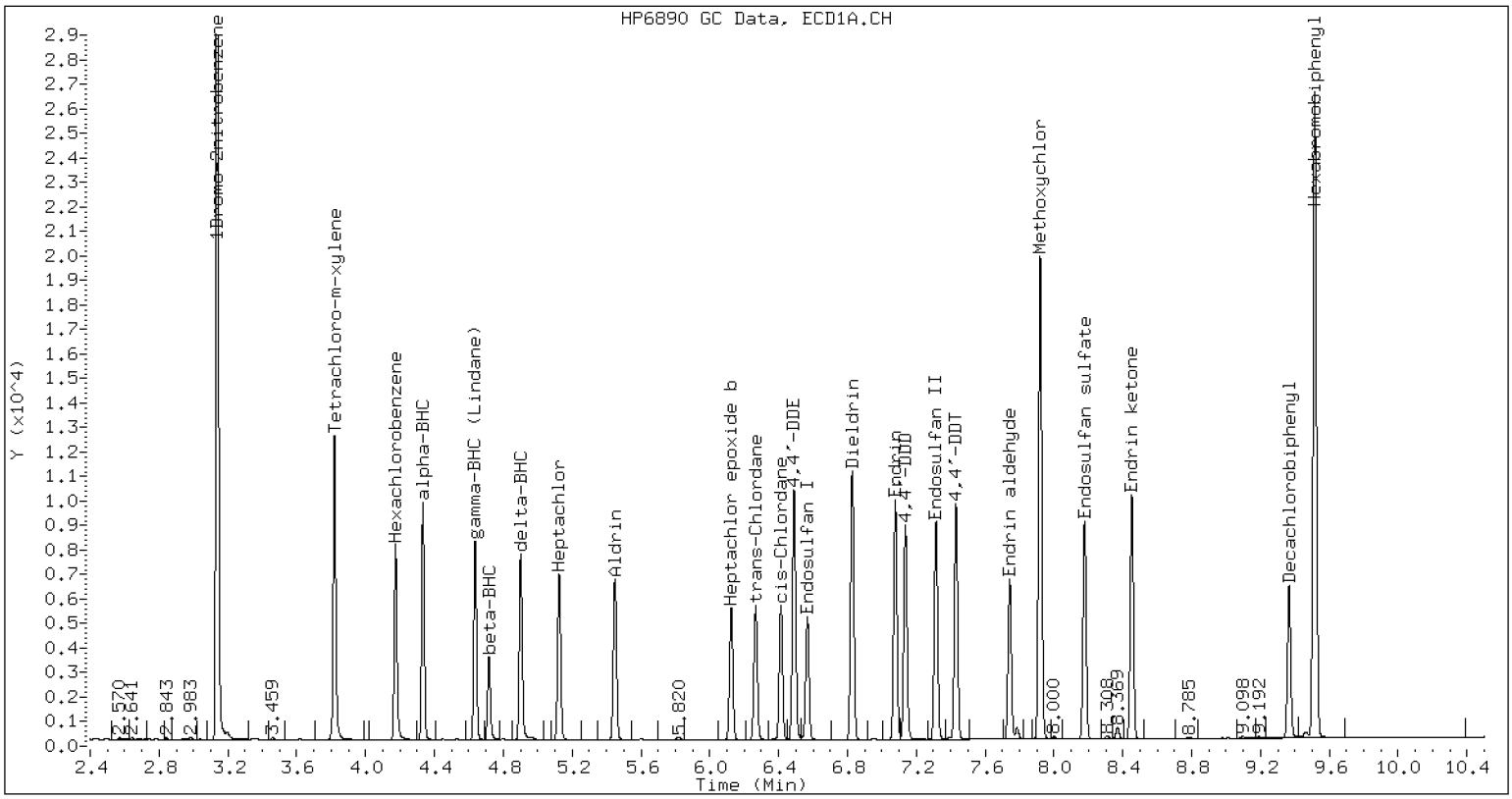
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	910053	5.3
Hexabromobiphenyl	663237	732158	10.4

Column 2

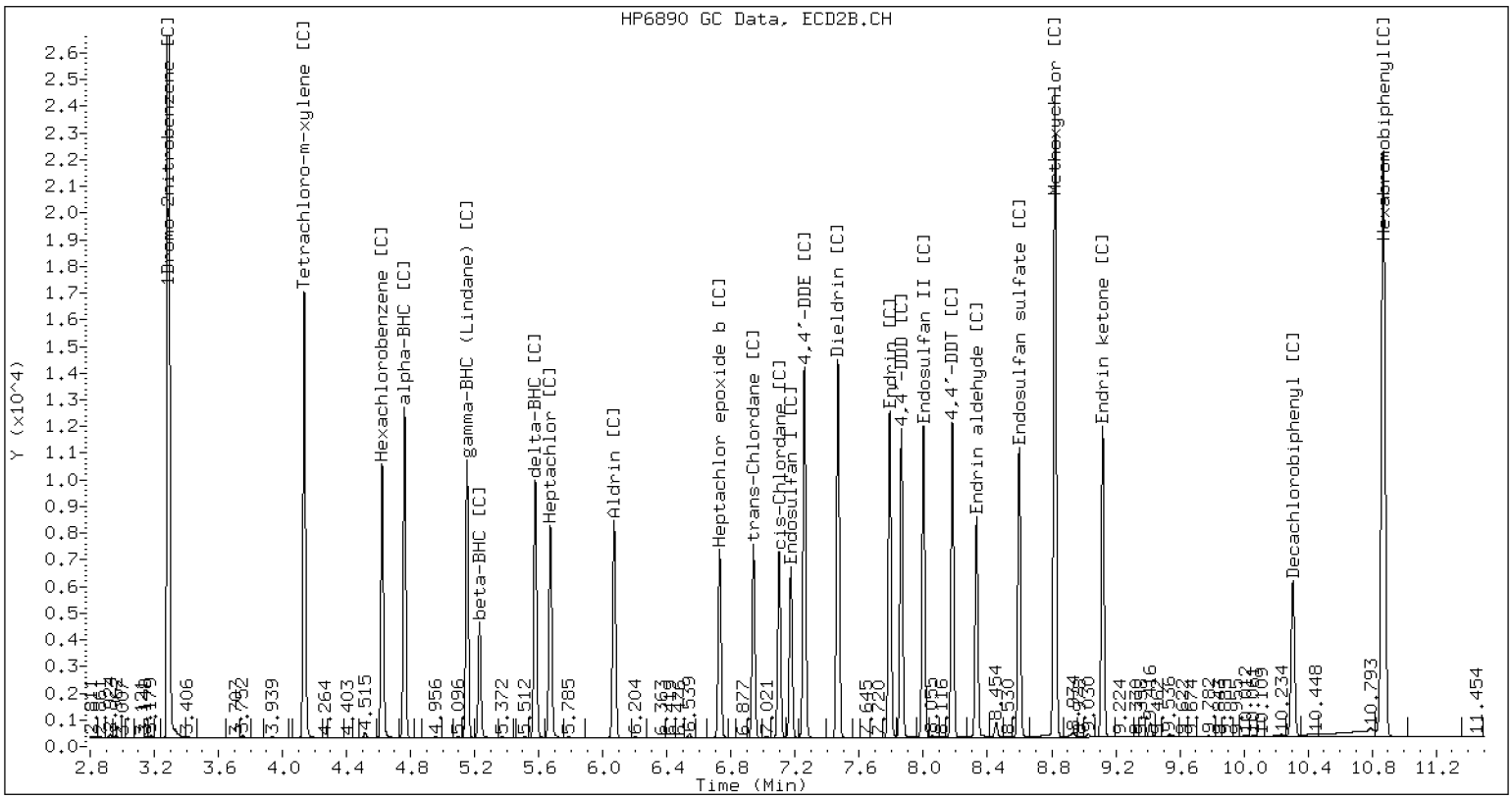
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1214458	-18.0
Hexabromobiphenyl	870561	742252	-14.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

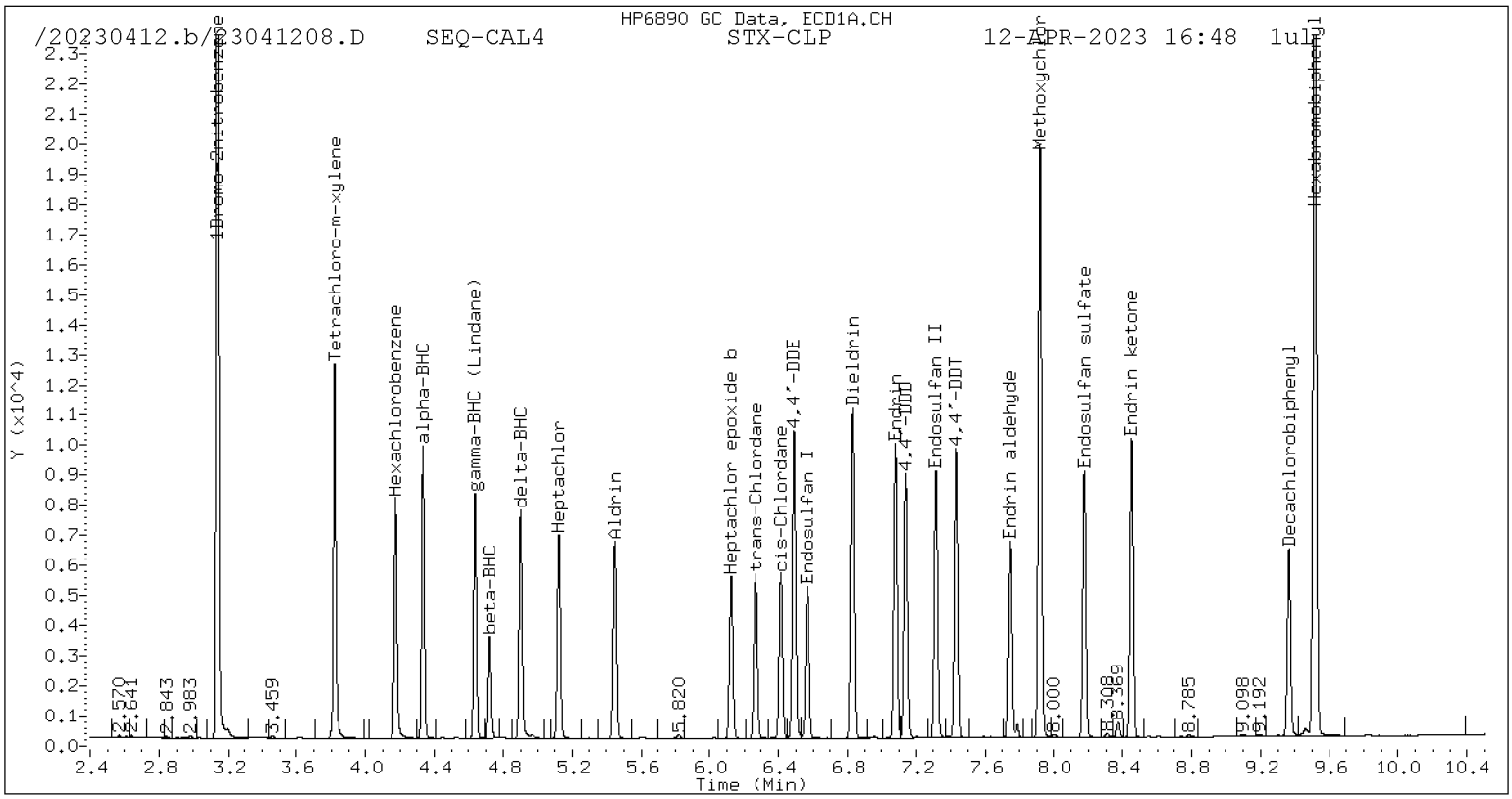
/20230412.b/23041208.D SEQ-CAL4 STX-CLP 12-APR-2023 16:48 1ul



/20230412.b/B20230412.b/23041208.D SEQ-CAL4 CLP2 12-APR-2023 16:48 1ul

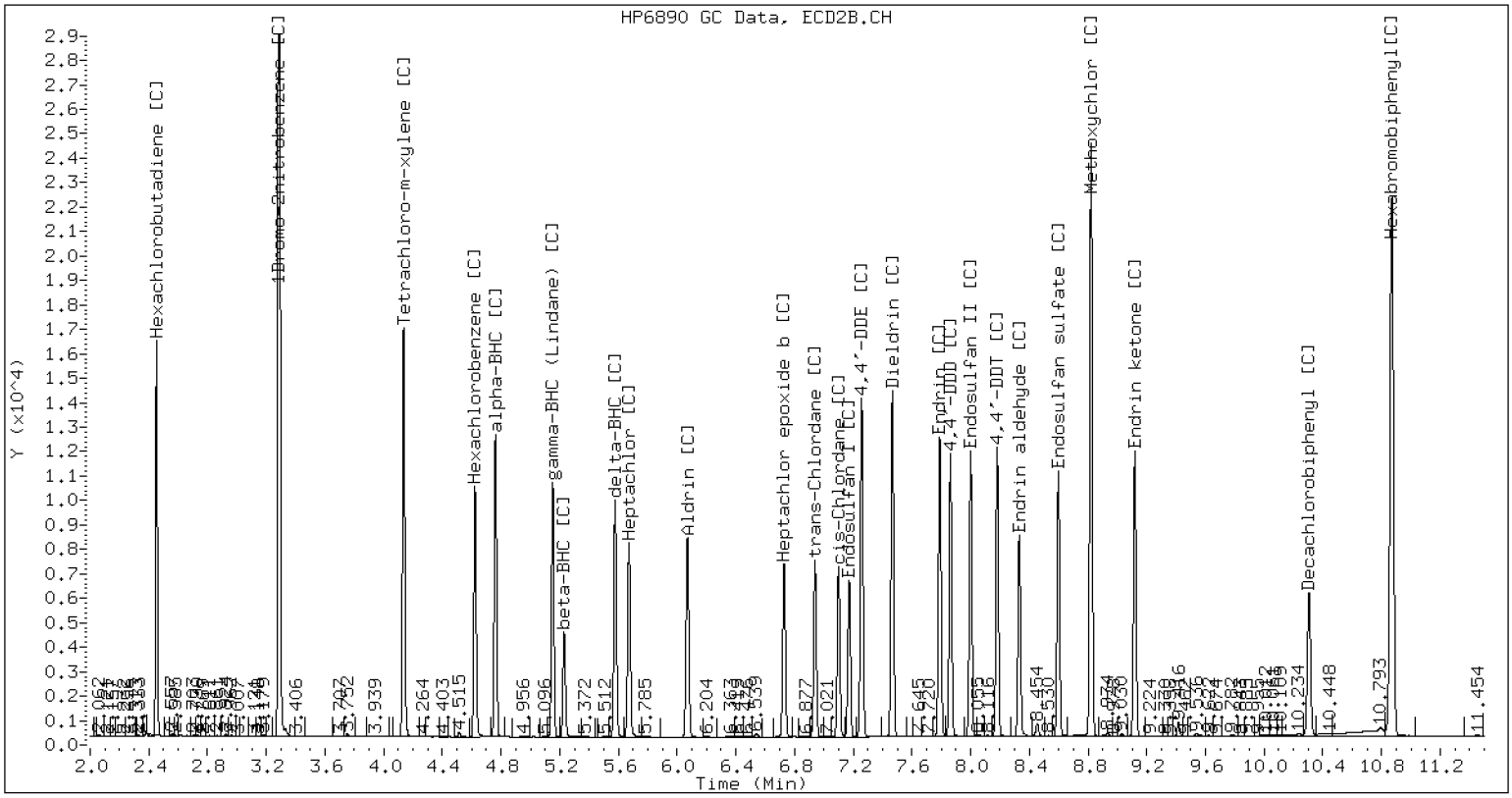


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041208.D SEQ-CAL4 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041209.D
Data file 2: /20230412.b/B20230412.b/23041209.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 12-APR-2023 17:06
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	789082	4.762	0.000	1053745	39.26	40.45	3.0	alpha-BHC
4.717	-0.001	298836	5.230	-0.000	393735	37.23	38.05	2.2	beta-BHC
4.901	-0.001	708304	5.577	0.000	933504	38.92	40.25	3.4	delta-BHC
4.637	0.000	688986	5.152	-0.000	916016	39.01	39.99	2.5	gamma-BHC (Lindane)
5.125	-0.000	604529	5.671	0.000	770994	36.98	38.38	3.7	Heptachlor
5.448	-0.000	629969	6.071	-0.000	812922	37.88	38.99	2.9	Aldrin
6.125	-0.002	526148	6.729	-0.000	668897	35.05	36.44	3.9	Heptachlor epoxide b
6.567	-0.001	493488	7.173	0.001	596729	36.88	38.16	3.4	Endosulfan I
6.829	0.000	1030944	7.466	0.000	1279184	72.81	74.62	2.5	Dieldrin
6.489	-0.001	993535	7.257	0.000	1220084	74.41	74.77	0.5	4,4'-DDE
7.078	-0.001	907557	7.790	-0.000	1098211	72.71	73.00	0.4	Endrin
7.314	-0.001	848911	8.001	-0.000	1048450	72.63	73.77	1.6	Endosulfan II
7.137	-0.001	838729	7.862	0.000	1040087	74.86	75.63	1.0	4,4'-DDD
8.178	-0.000	805013	8.598	0.000	975785	73.05	74.56	2.1	Endosulfan sulfate
7.431	-0.000	908115	8.181	0.000	1053162	75.26	75.90	0.9	4,4'-DDT
7.920	-0.001	1796134	8.821	-0.001	2104774	347.45	353.79	1.8	Methoxychlor
8.452	-0.000	896939	9.120	0.001	1042272	71.33	72.93	2.2	Endrin ketone
7.743	-0.001	649599	8.332	0.001	756869	72.82	73.66	1.1	Endrin aldehyde
6.266	-0.000	563470	6.940	0.001	689422	38.37	39.17	2.1	trans-Chlordane
6.414	-0.000	558211	7.100	-0.000	670499	37.86	38.69	2.2	cis-Chlordane
2.309	0.001	760920	2.453	-0.000	896023	36.70	37.88	3.2	Hexachlorobutadiene
4.175	-0.000	651738	4.623	0.001	846379	36.64	37.20	1.5	Hexachlorobenzene
3.819	-0.000	933369	4.136	0.000	1232611	72.57	72.99	0.6	Tetrachloro-m-xylene
9.367	0.000	579829	10.306	0.000	644132	68.06	71.40	4.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

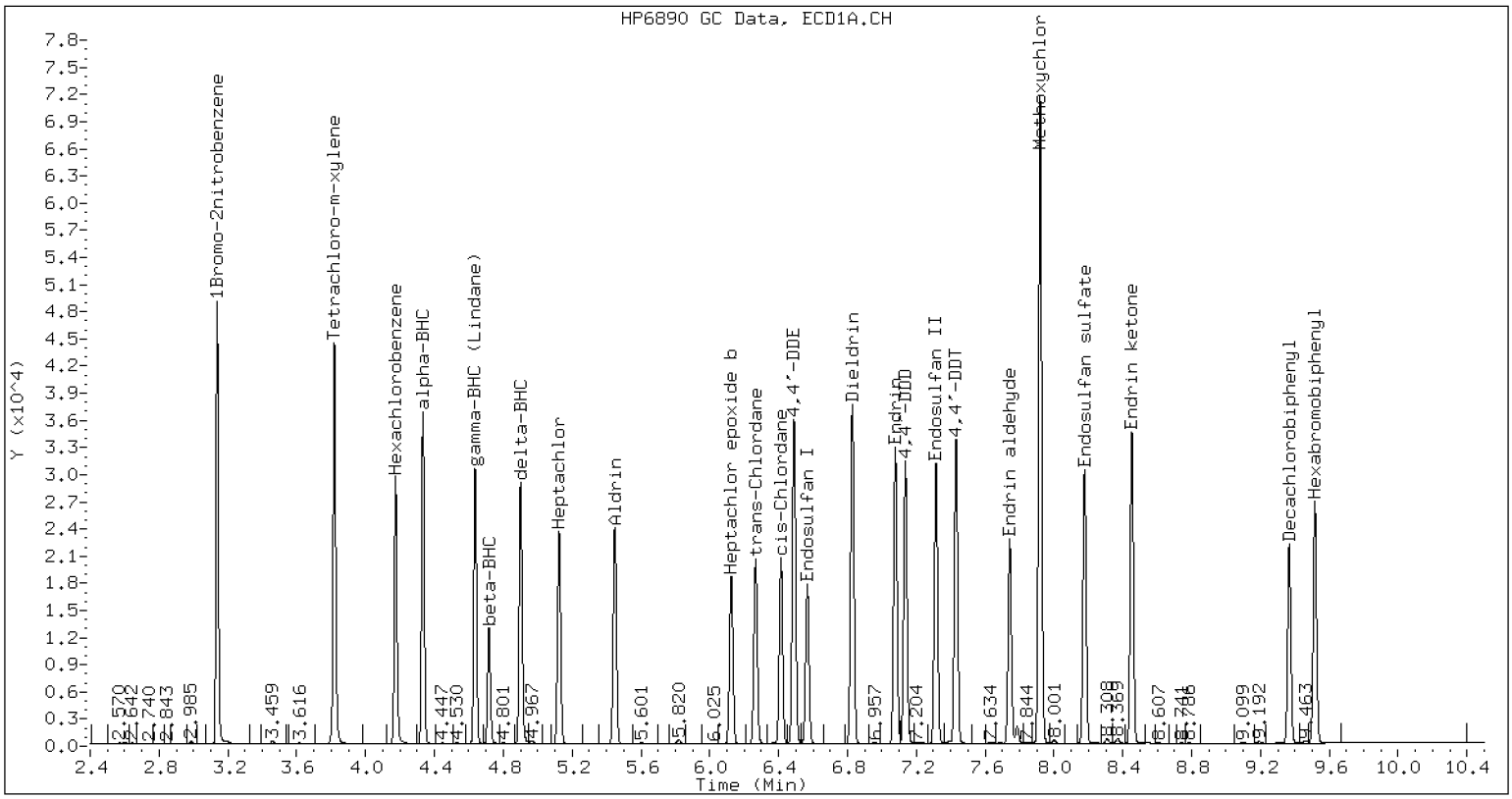
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	919249	6.4
Hexabromobiphenyl	663237	722285	8.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1228056	-17.1
Hexabromobiphenyl	870561	747465	-14.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041209.D SEQ-CAL6 STX-CLP 12-APR-2023 17:06 1ul



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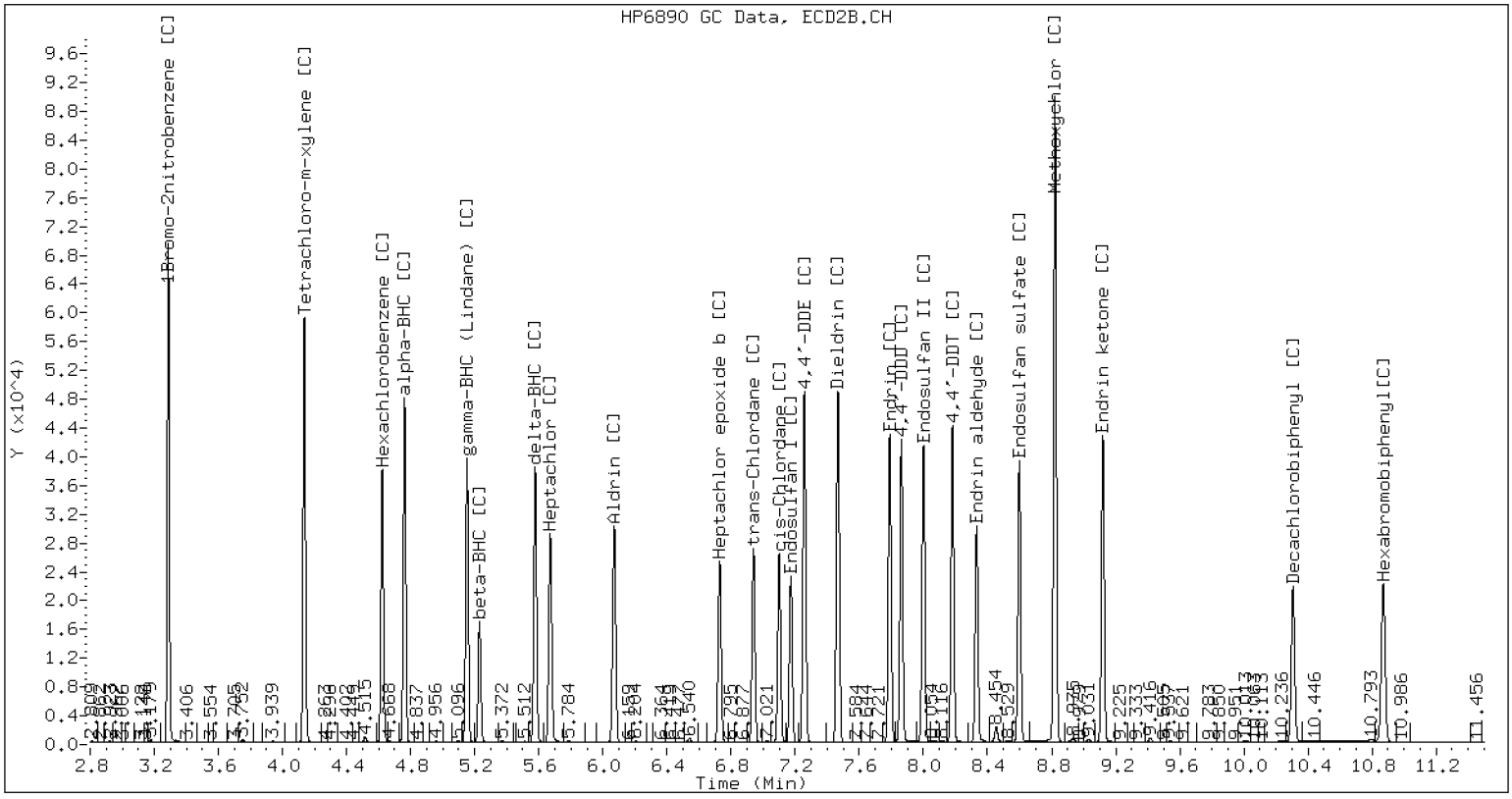
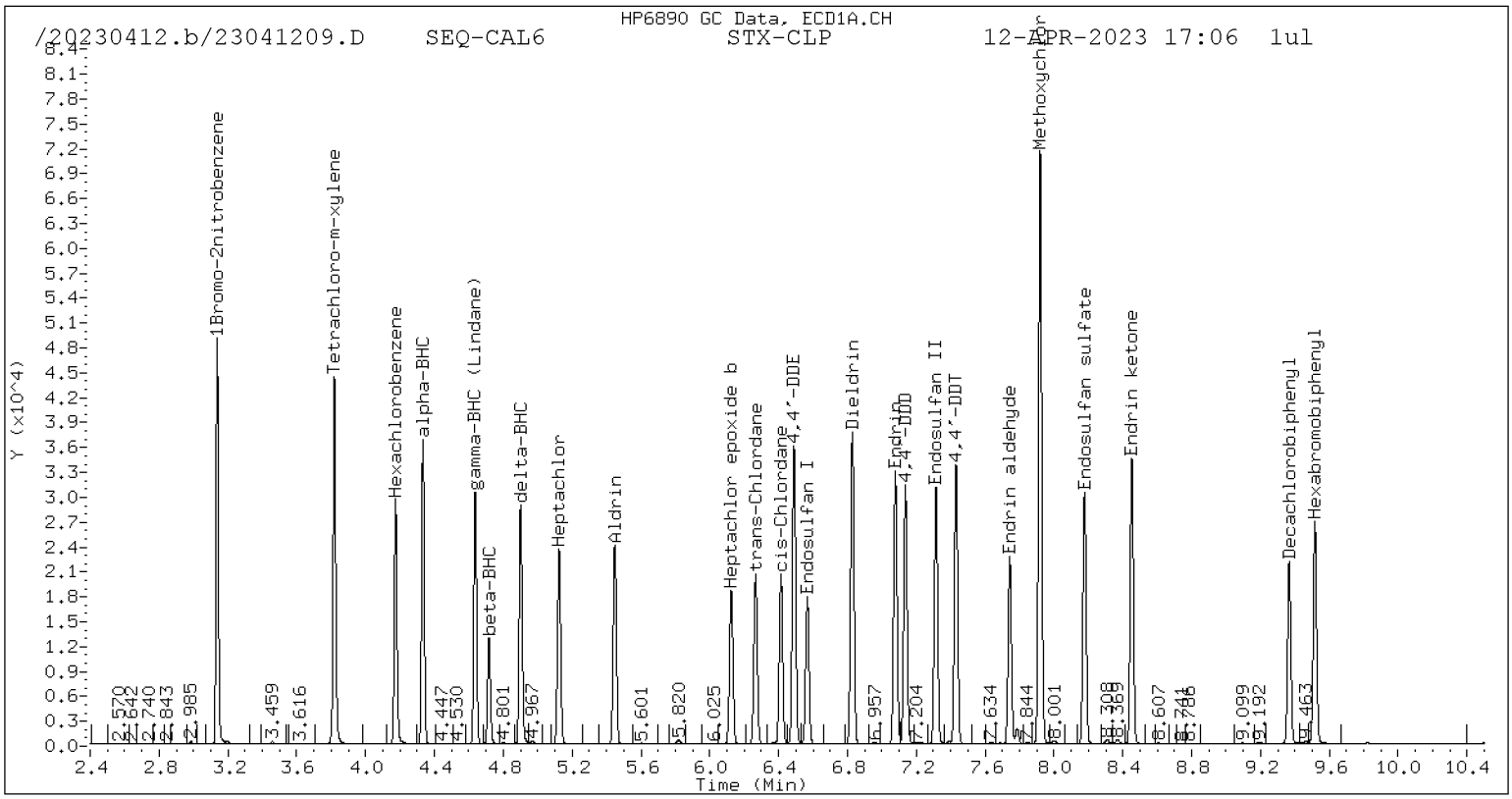
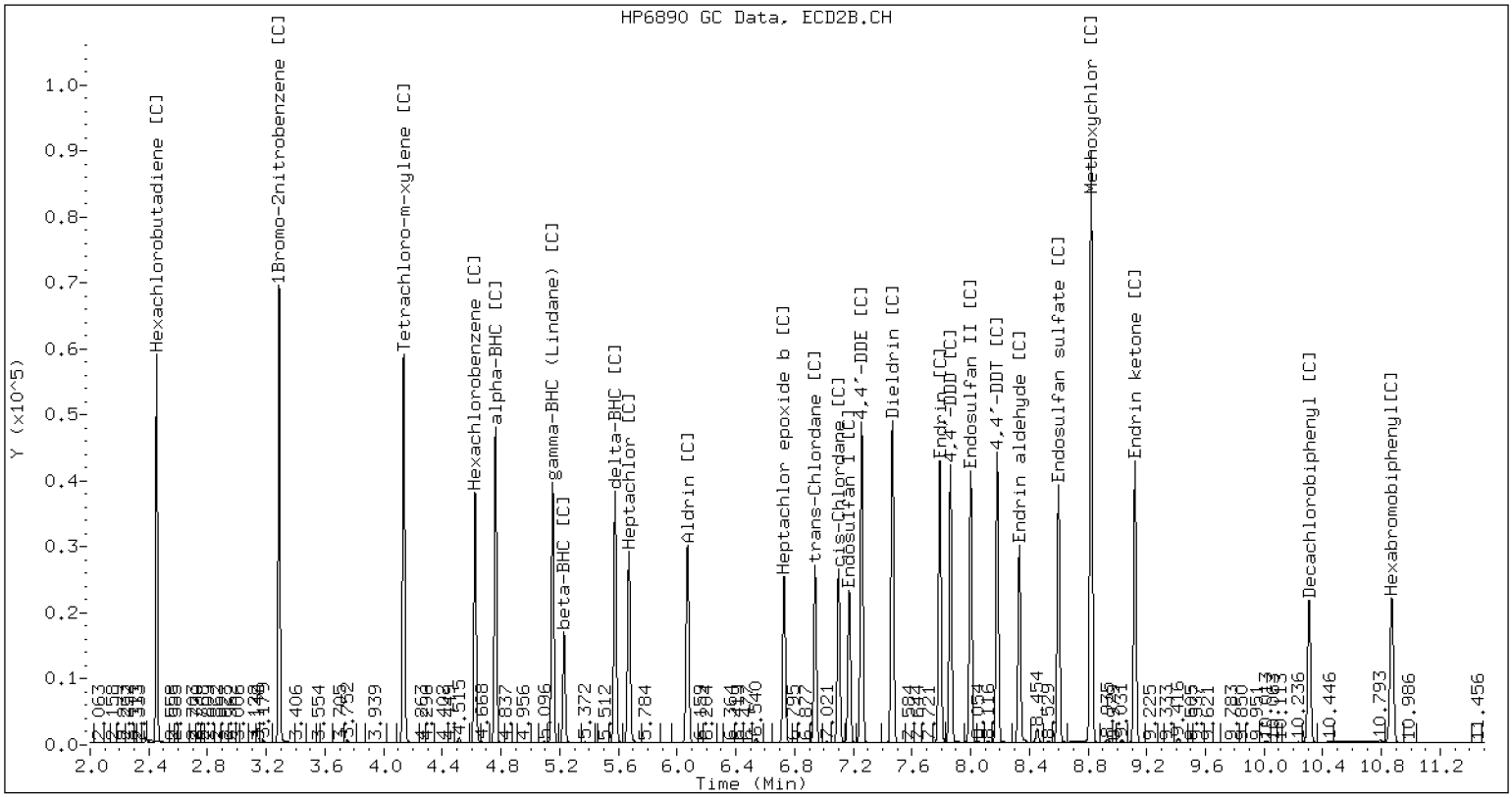


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041209.D SEQ-CAL6 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041210.D
Data file 2: /20230412.b/B20230412.b/23041210.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 12-APR-2023 17:25
Report Date: 04/13/2023 12:57
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	1504143	4.762	0.000	2036495	74.20	77.68	4.6	alpha-BHC M
4.717	-0.001	564613	5.230	-0.000	751802	69.75	72.20	3.5	beta-BHC M
4.901	-0.002	1348410	5.577	-0.000	1780227	73.47	76.29	3.8	delta-BHC M
4.637	-0.000	1305188	5.152	-0.000	1754548	73.27	76.13	3.8	gamma-BHC (Lindane) M
5.124	-0.001	1105791	5.671	-0.000	1423580	67.07	70.43	4.9	Heptachlor M
5.448	-0.000	1164527	6.071	-0.000	1511414	69.44	72.04	3.7	Aldrin M
6.125	-0.002	957195	6.729	-0.000	1234899	63.23	66.86	5.6	Heptachlor epoxide b M
6.567	-0.001	902920	7.172	0.000	1107682	66.91	70.39	5.1	Endosulfan I M
6.828	-0.000	1891941	7.466	0.000	2384054	132.48	138.22	4.2	Dieldrin M
6.489	-0.001	1824093	7.257	0.000	2245750	135.47	136.78	1.0	4,4'-DDE M
7.078	-0.001	1667189	7.790	0.000	2038096	130.71	135.54	3.6	Endrin M
7.314	-0.001	1548044	8.001	-0.000	1990565	129.61	140.13	7.8	Endosulfan II M
7.136	-0.002	1549529	7.862	0.000	1970951	135.35	143.39	5.8	4,4'-DDD M
8.177	-0.001	1486482	8.598	-0.000	1840819	132.01	140.73	6.4	Endosulfan sulfate M
7.431	-0.001	1683975	8.181	-0.000	2003848	136.58	144.49	5.6	4,4'-DDT M
7.920	-0.000	3475120	8.822	-0.000	4197295	657.88	705.85	7.0	Methoxychlor M
8.452	-0.001	1668350	9.119	0.000	1981664	129.84	138.74	6.6	Endrin ketone M
7.743	-0.001	1195780	8.331	0.000	1420645	131.18	138.32	5.3	Endrin aldehyde M
6.266	-0.001	1056187	6.939	0.000	1305882	71.31	73.74	3.4	trans-Chlordane M
6.413	-0.001	1043284	7.100	-0.000	1272519	70.16	72.97	3.9	cis-Chlordane M
2.309	0.001	1437797	2.453	0.000	1654665	68.77	69.52	1.1	Hexachlorobutadiene
4.175	-0.001	1223325	4.622	0.000	1599265	68.19	69.86	2.4	Hexachlorobenzene M
3.819	0.000	1715340	4.136	0.000	2273933	132.23	133.82	1.2	Tetrachloro-m-xylene M
9.366	-0.000	1089026	10.306	-0.000	1229420	125.10	136.33	8.6	Decachlorobiphenyl M

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

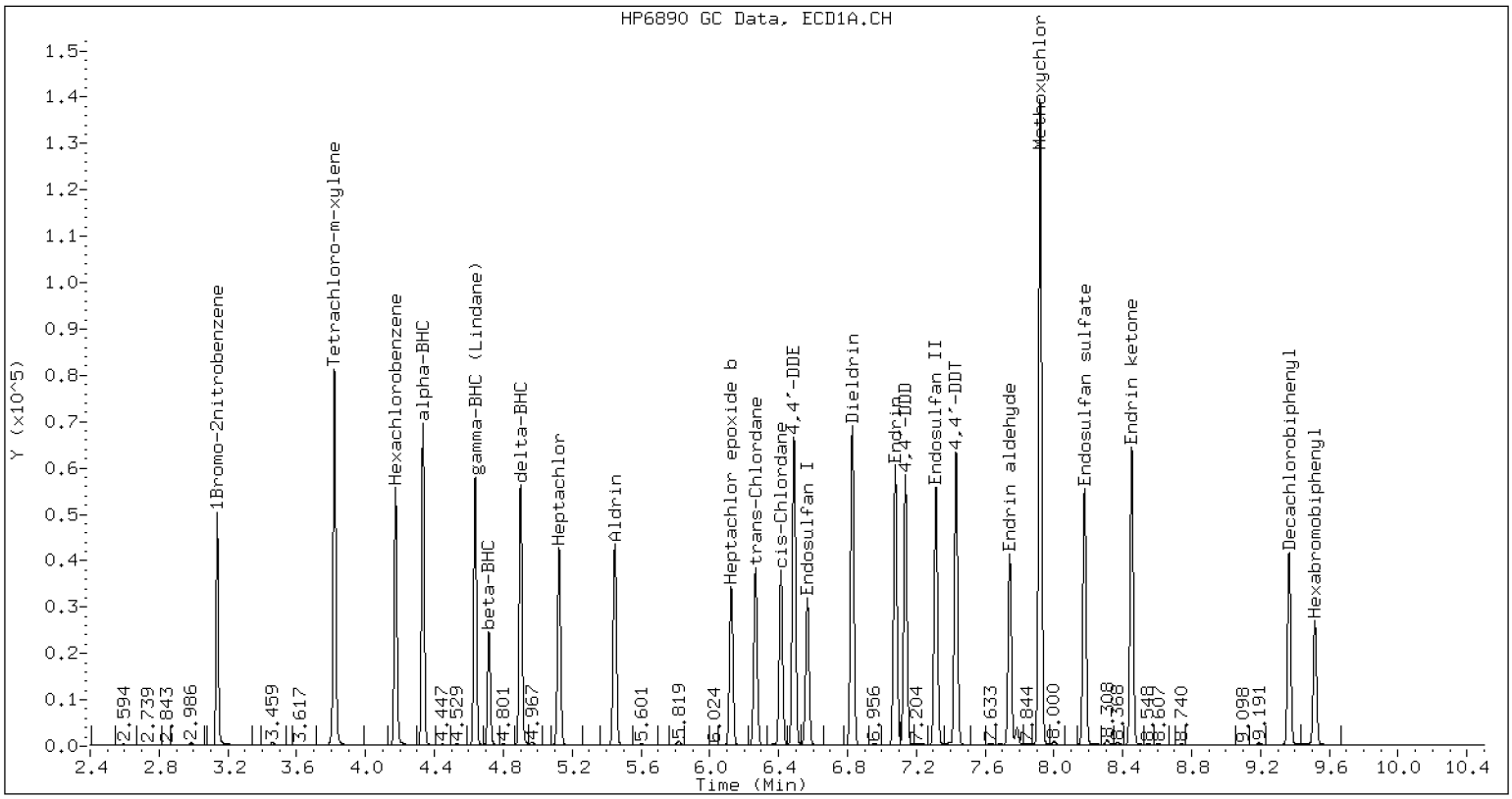
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	927085	7.3
Hexabromobiphenyl	663237	738060	11.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1235730	-16.6
Hexabromobiphenyl	870561	747107	-14.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230412.b/23041210.D SEQ-CAL7 STX-CLP 12-APR-2023 17:25 1ul



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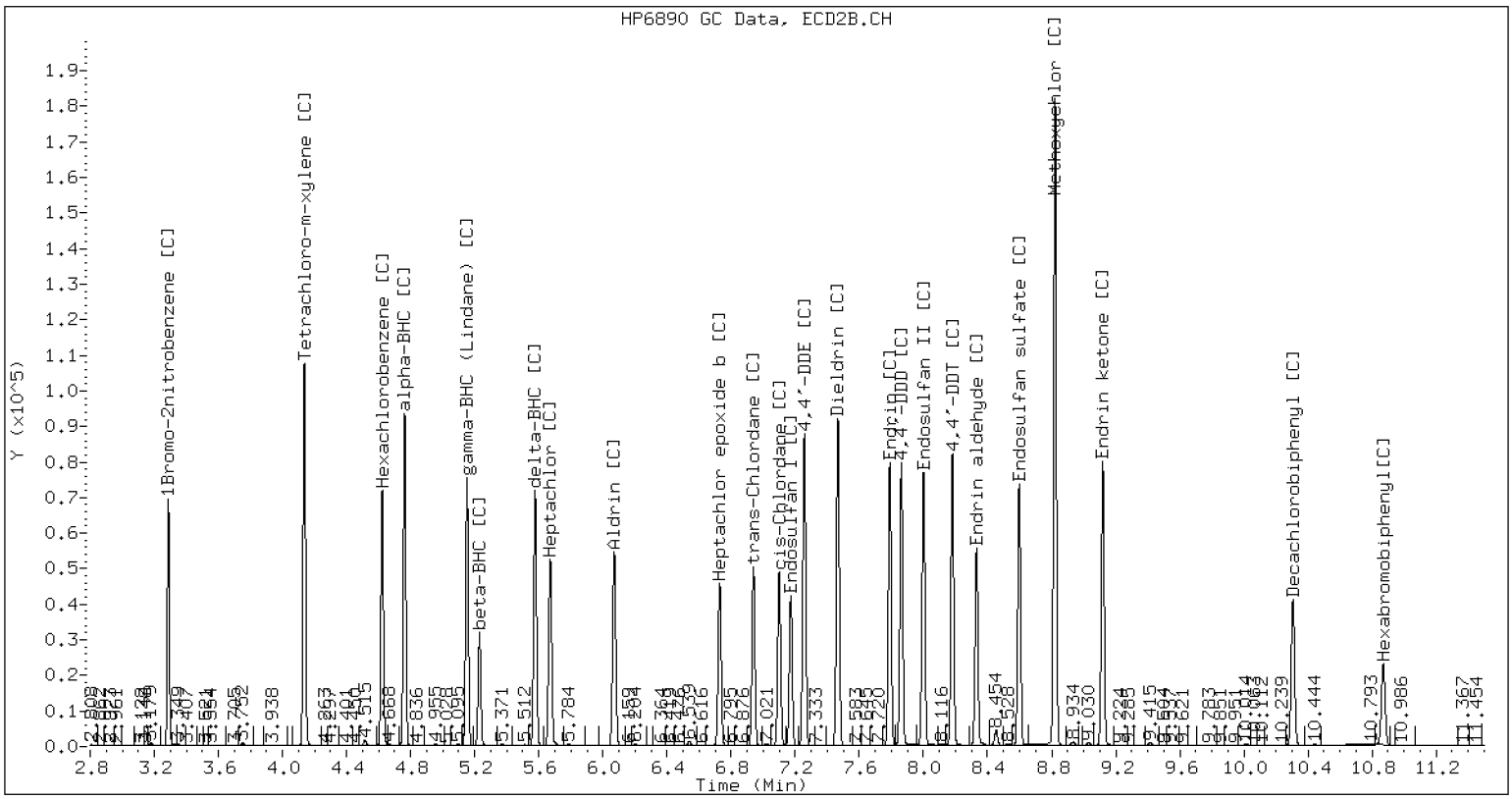
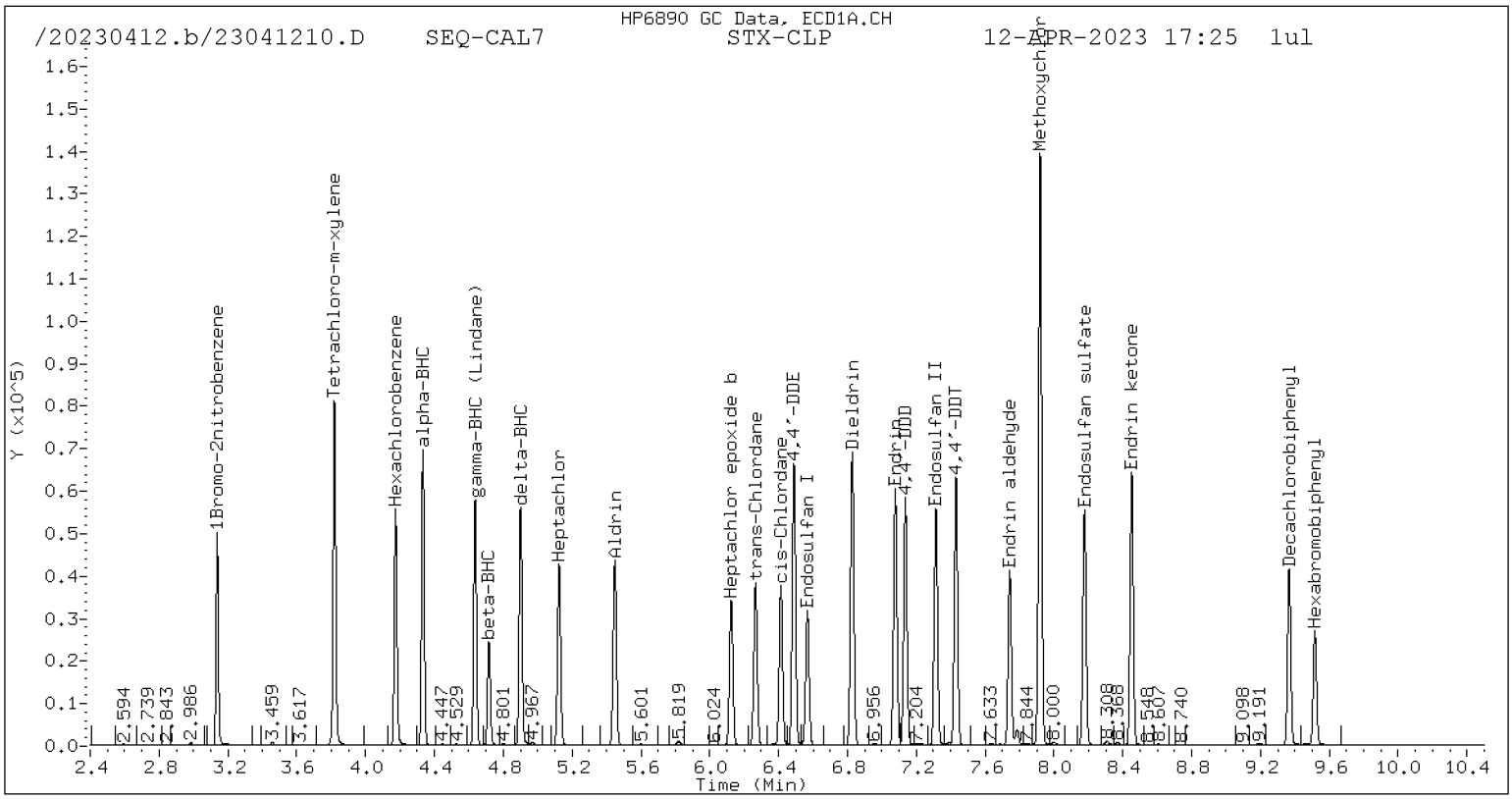
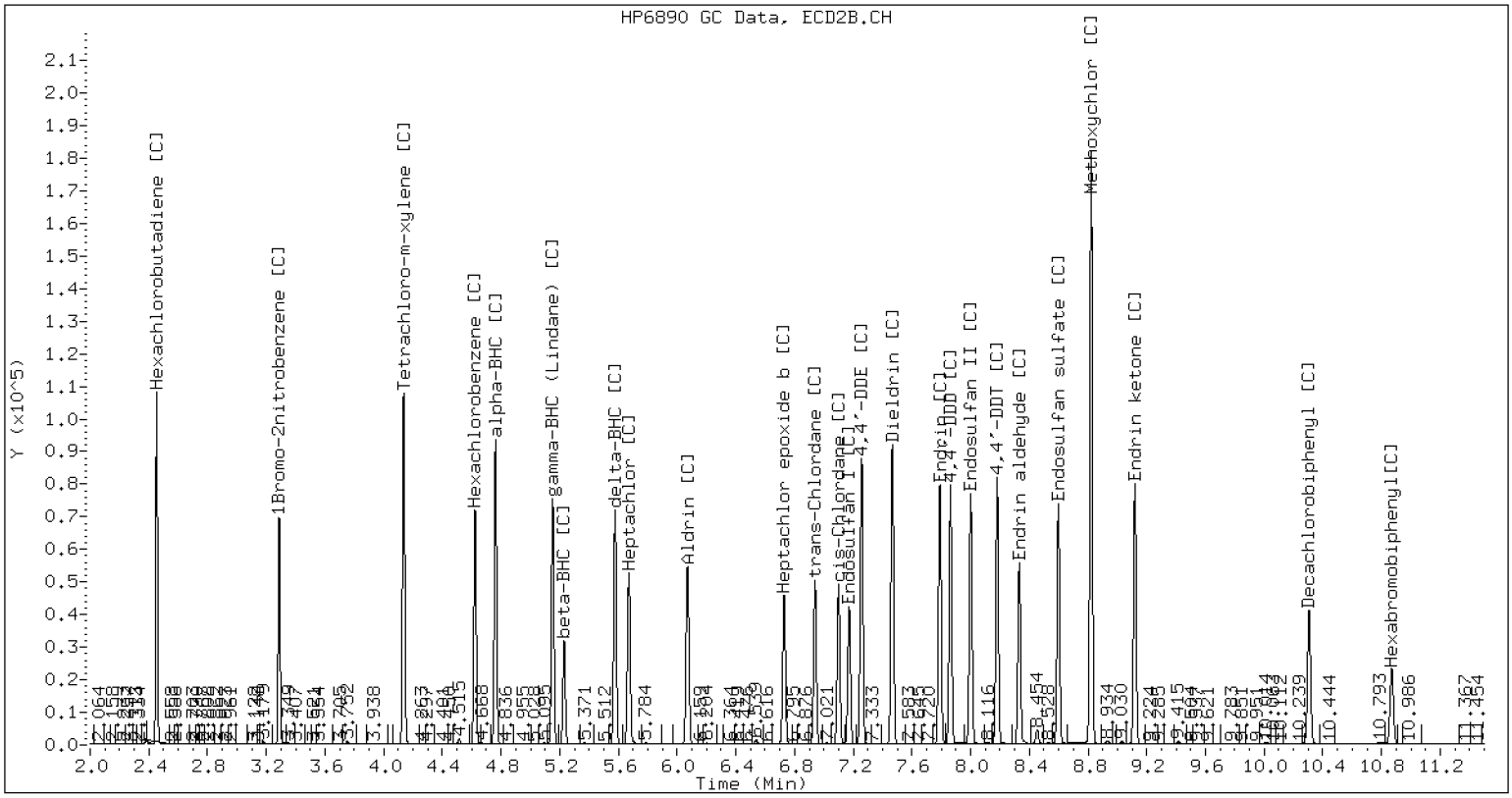


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

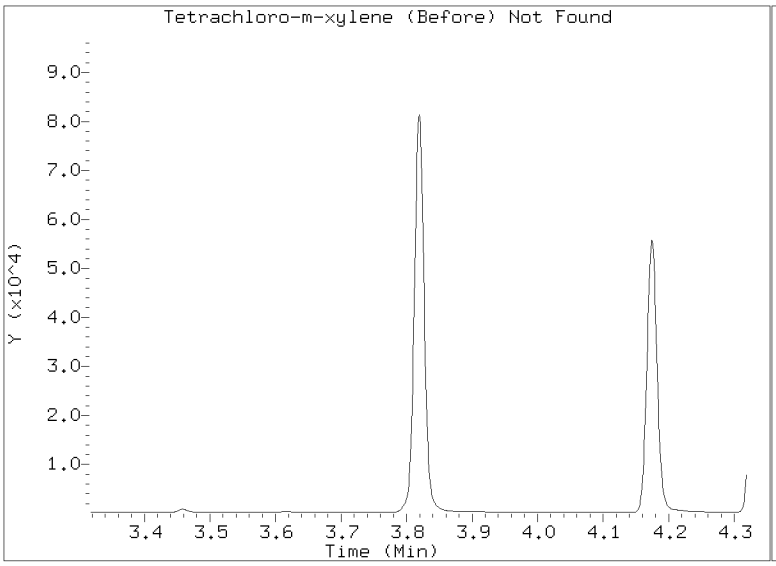
/20230412.b/B20230412.b/23041210.D SEQ-CAL7 CLP2

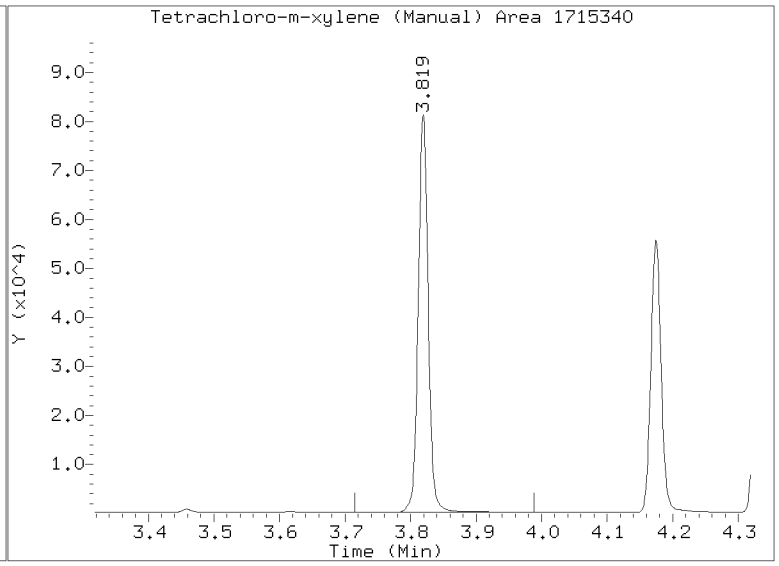


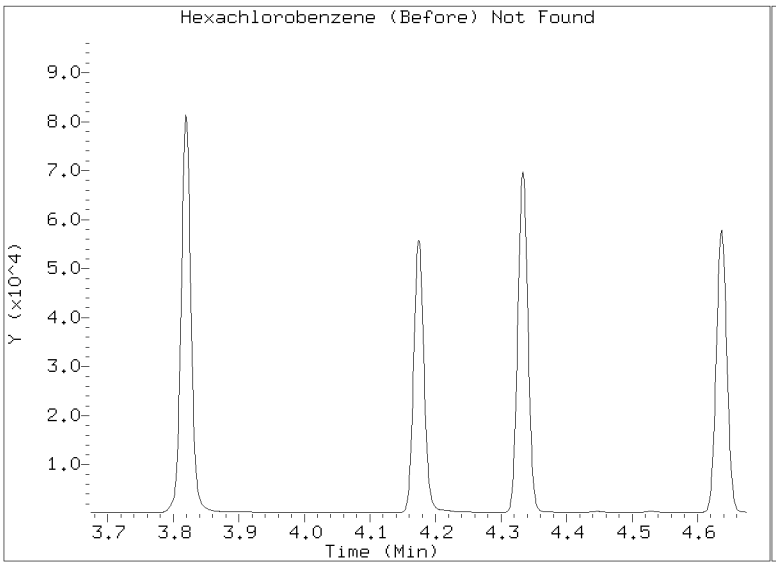
CLP-2 Manual Integration: YES

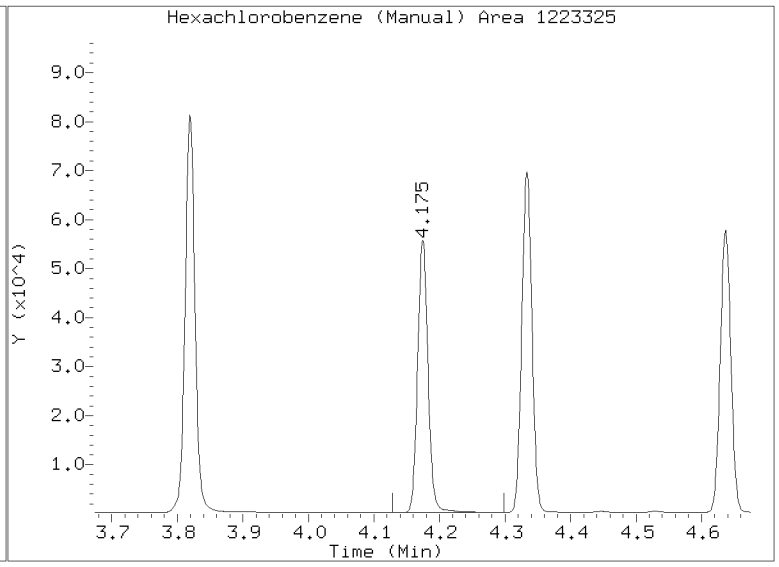
Manual Peak Adjustment Report, STX-CLP

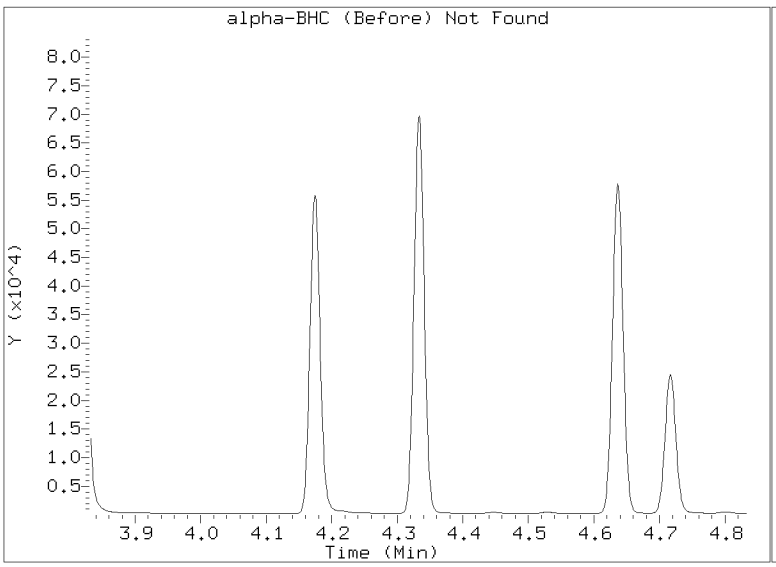
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

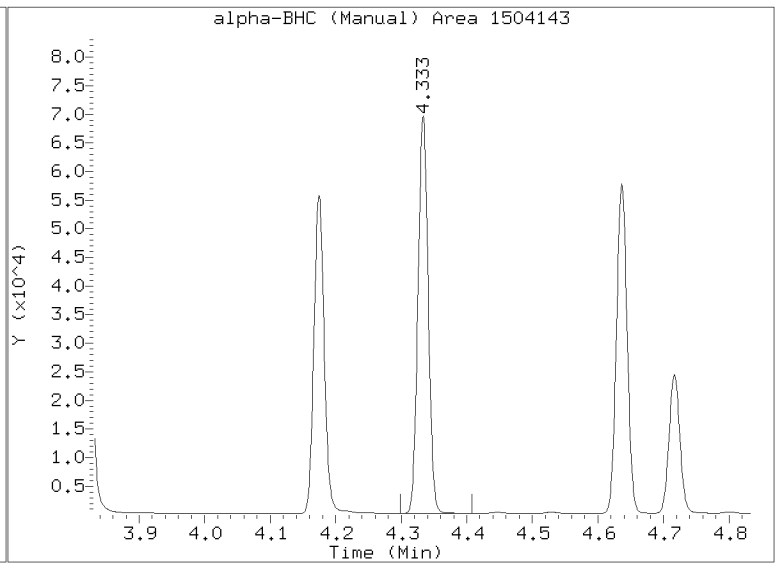






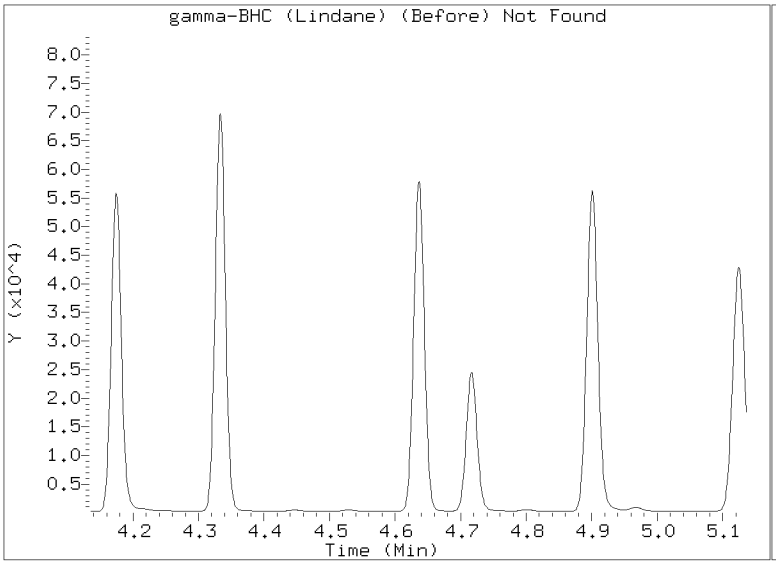


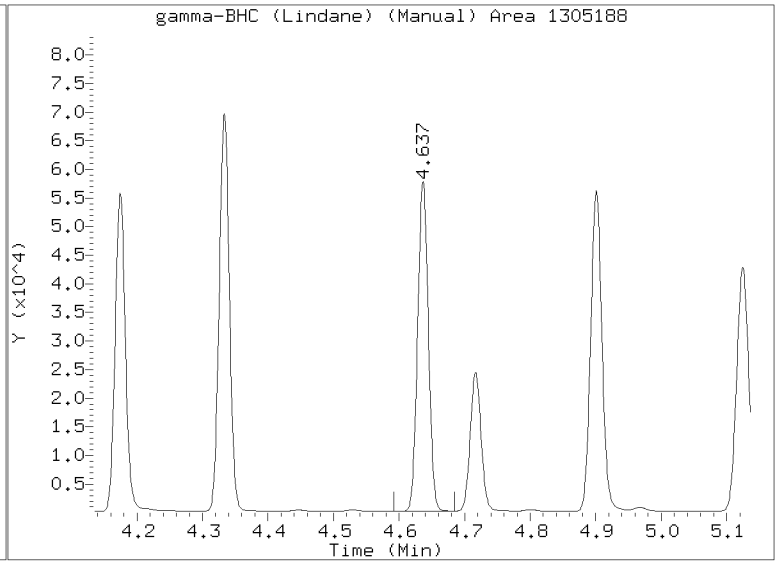


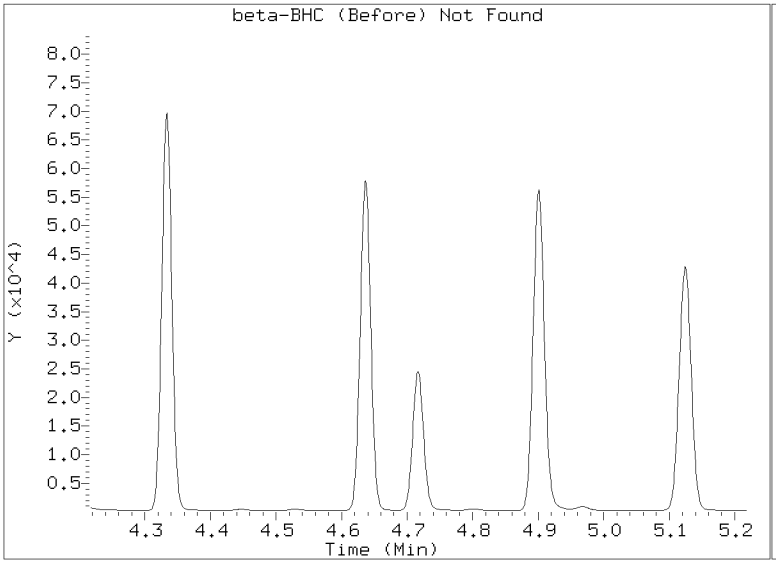


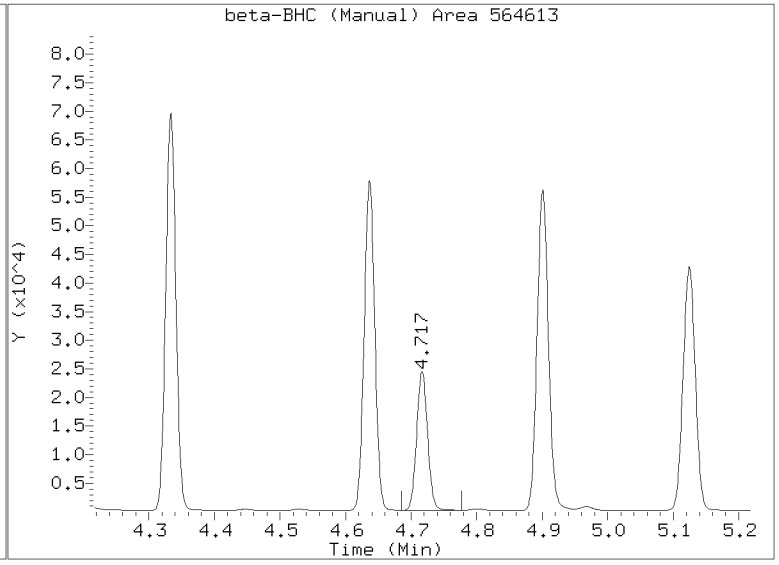
Manual Peak Adjustment Report, STX-CLP

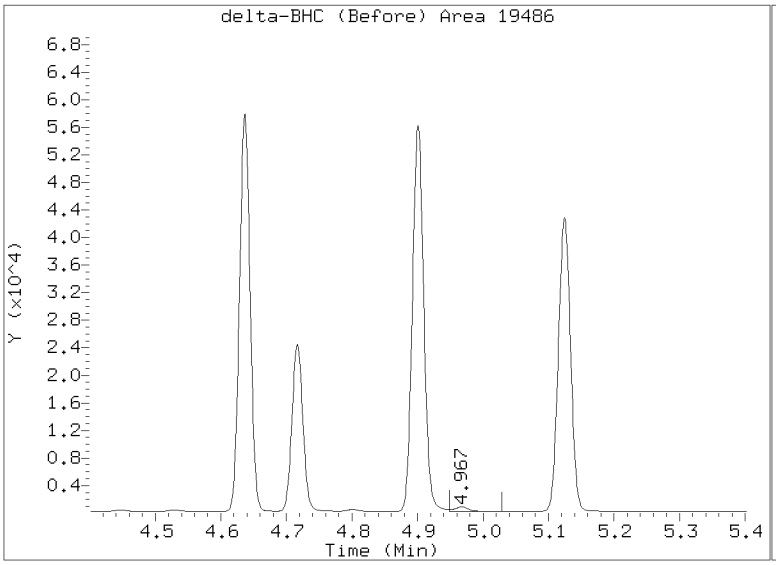
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

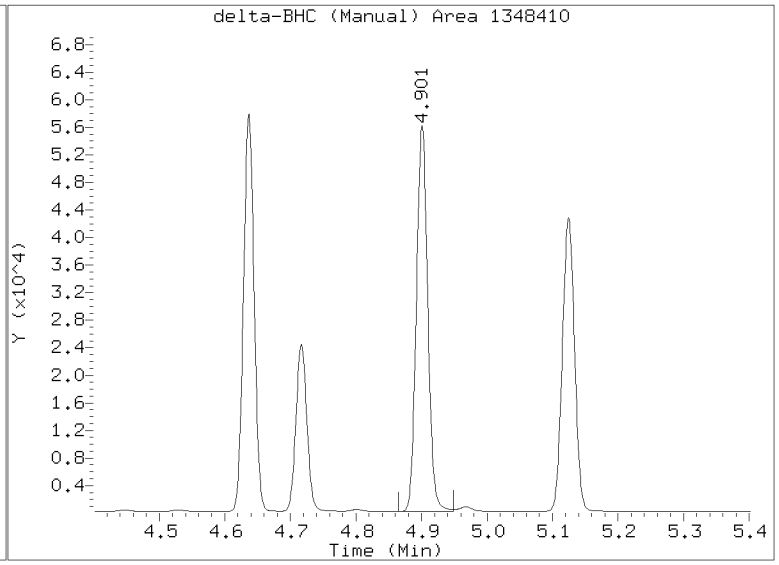






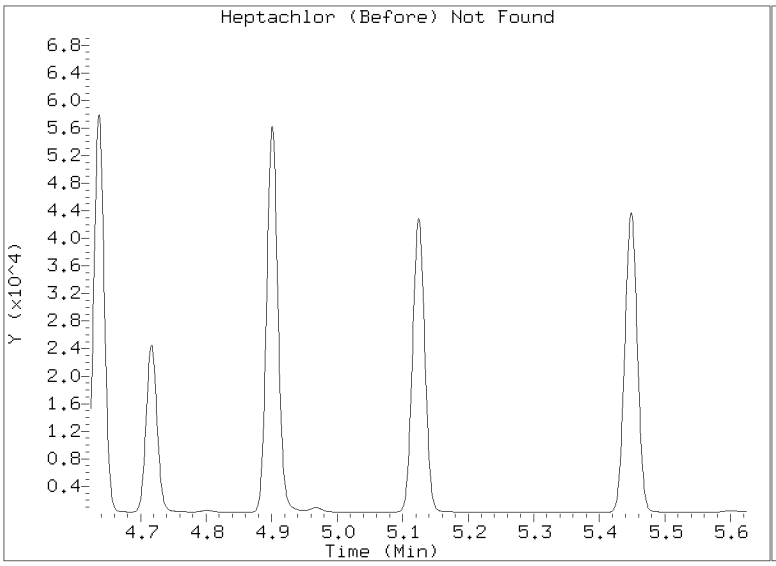


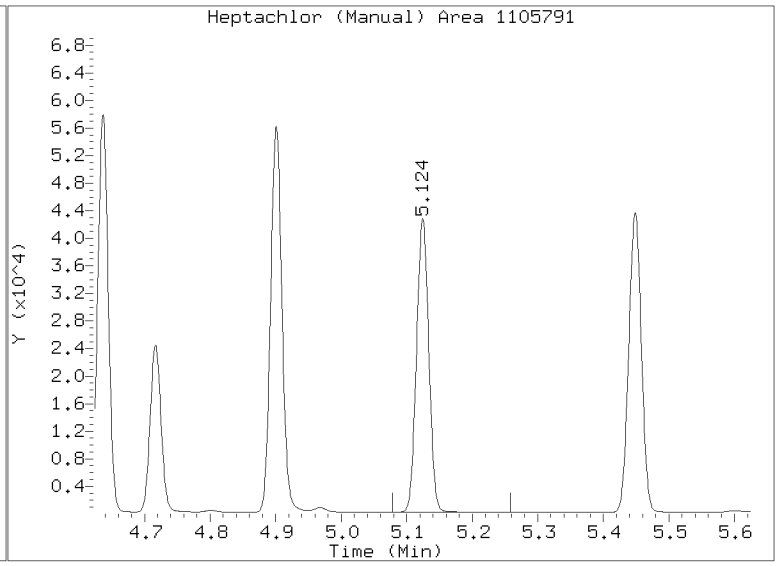


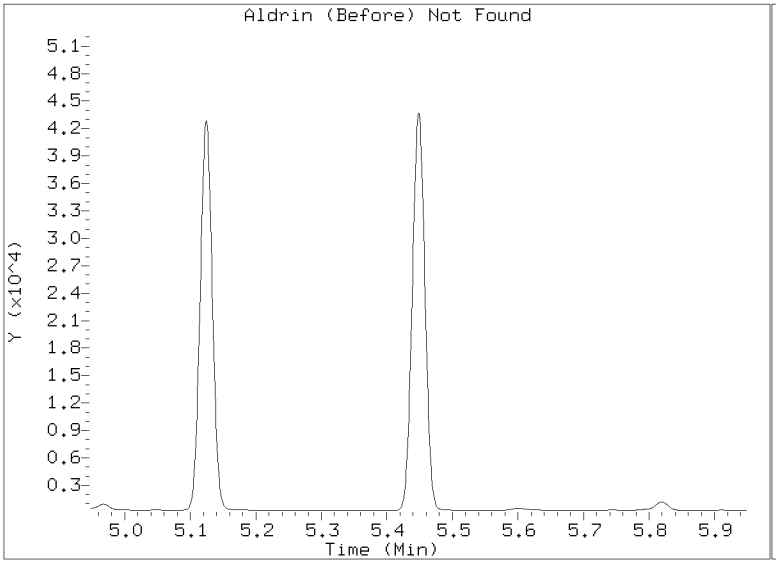


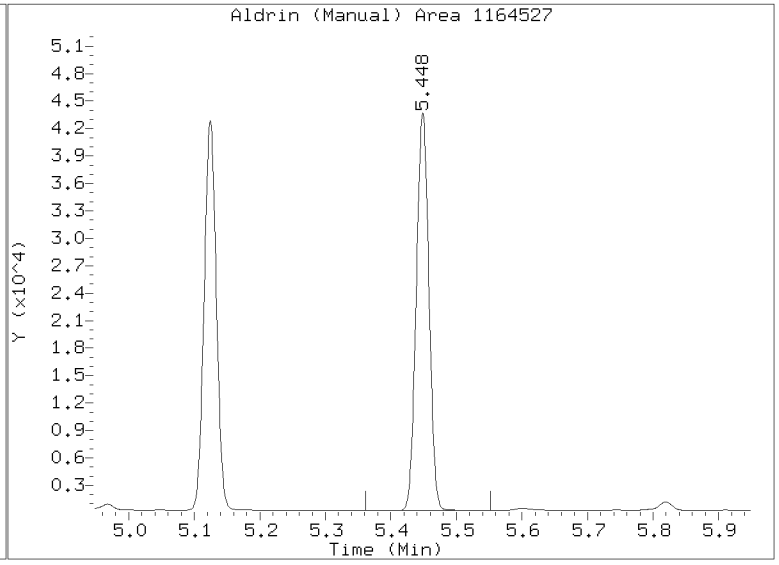
Manual Peak Adjustment Report, STX-CLP

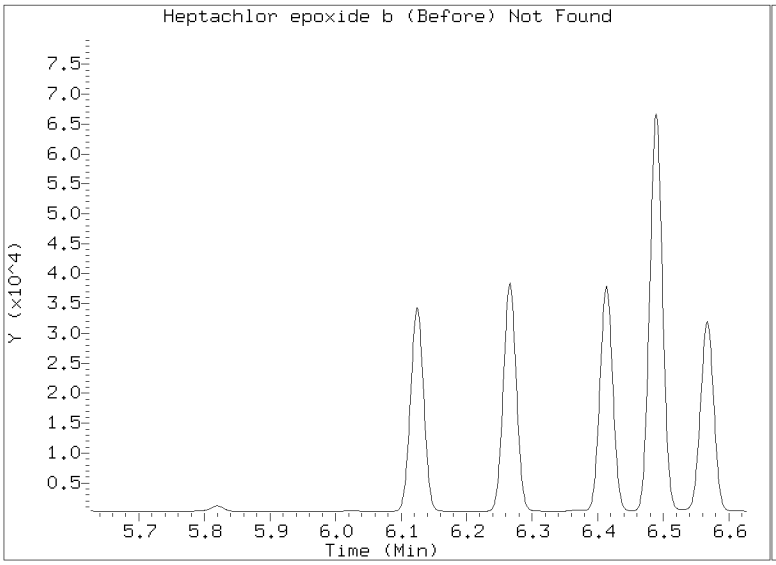
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

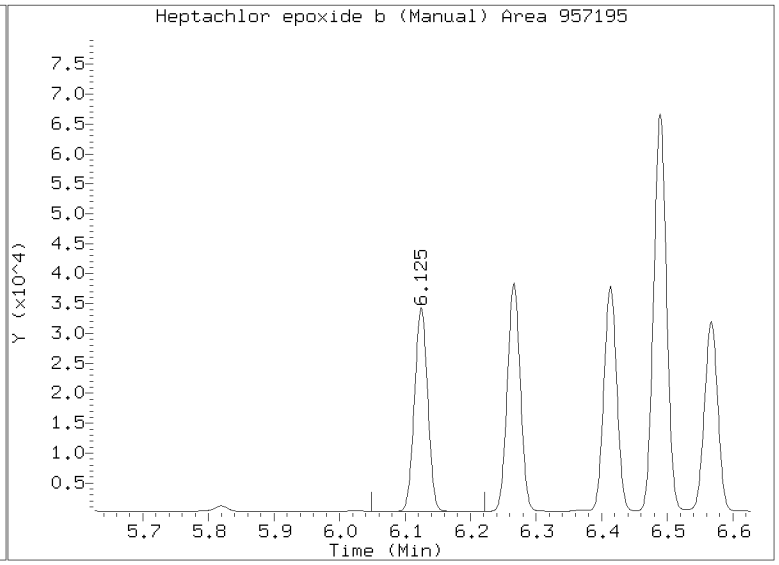






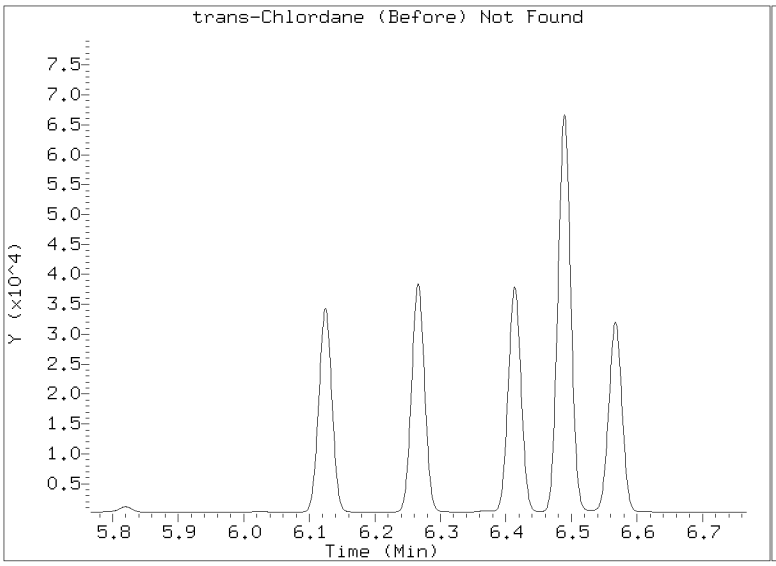


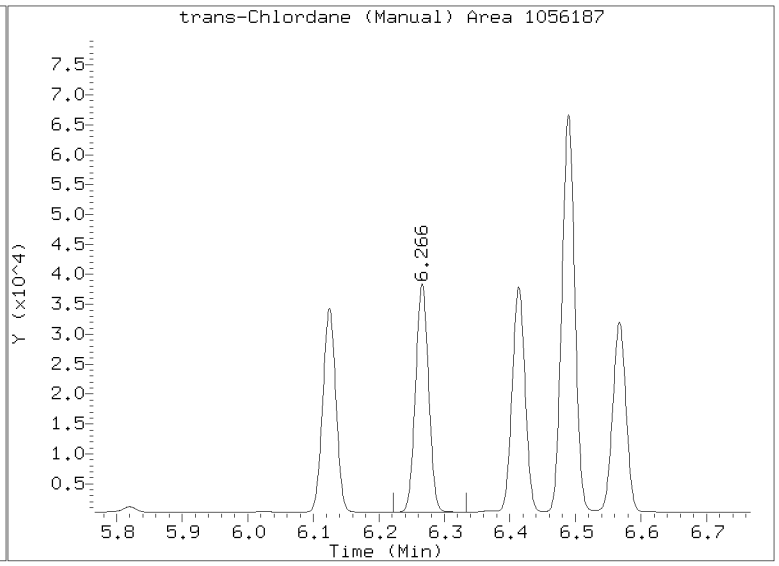


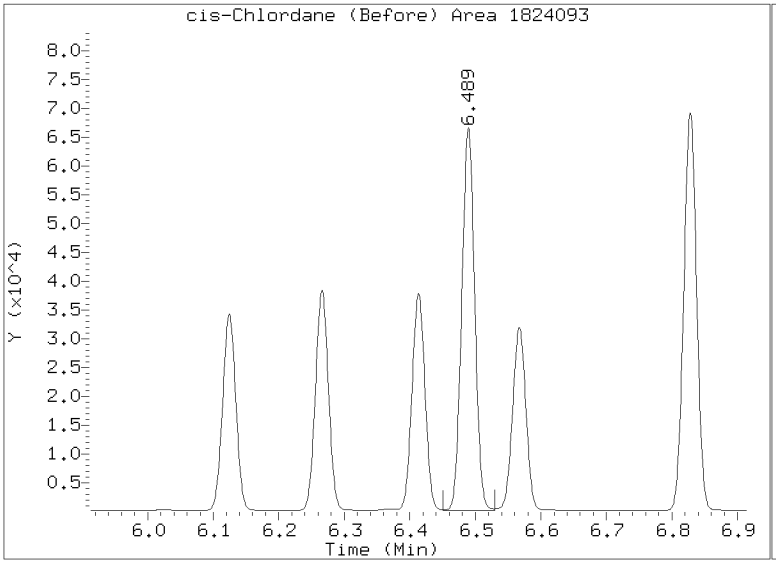


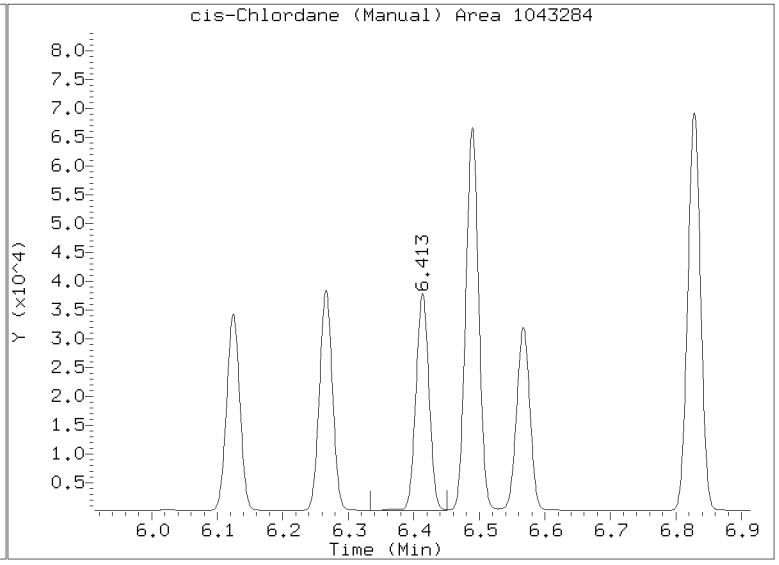
Manual Peak Adjustment Report, STX-CLP

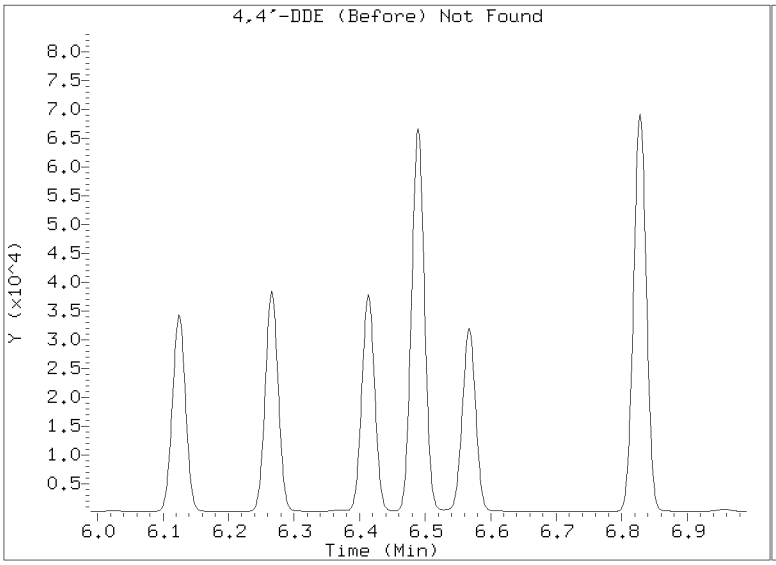
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

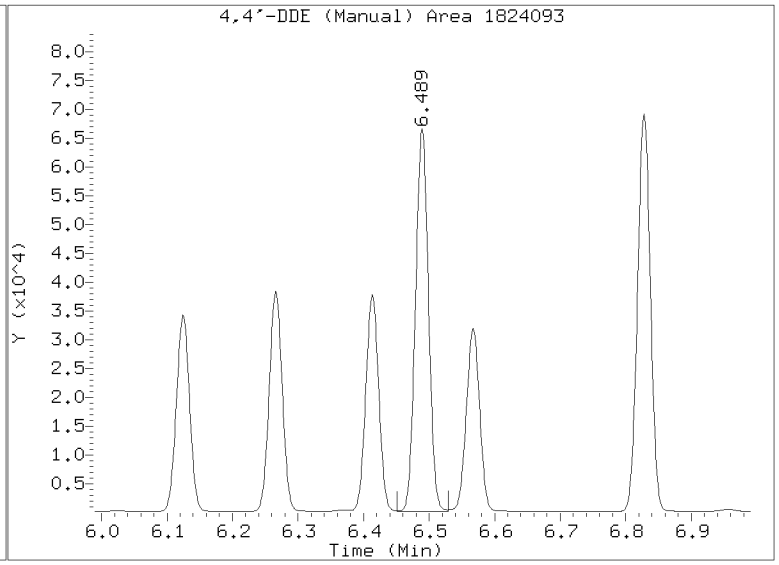






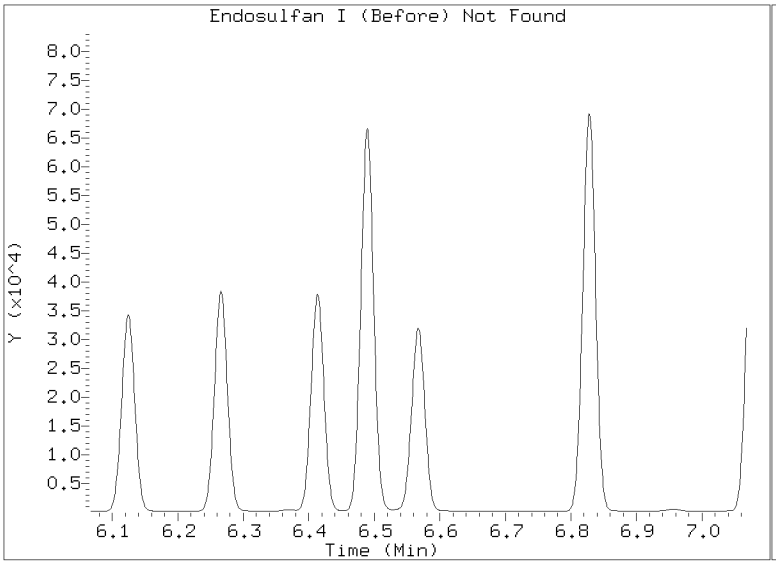


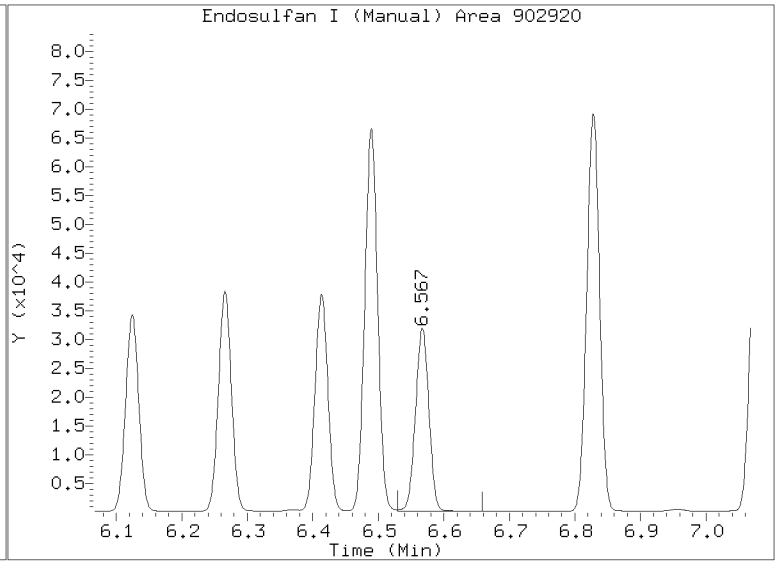


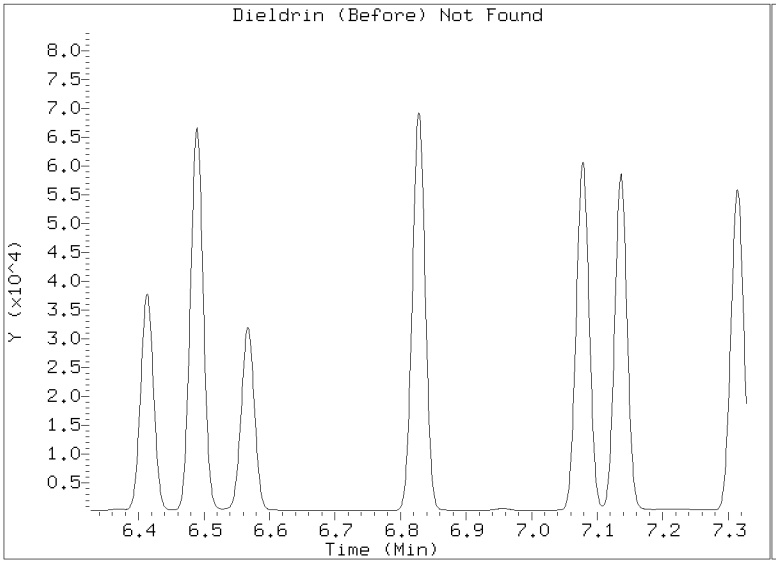


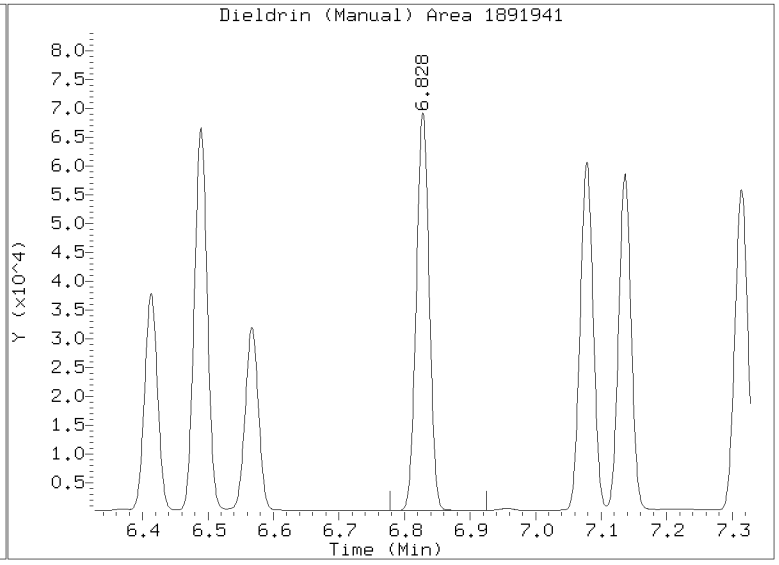
Manual Peak Adjustment Report, STX-CLP

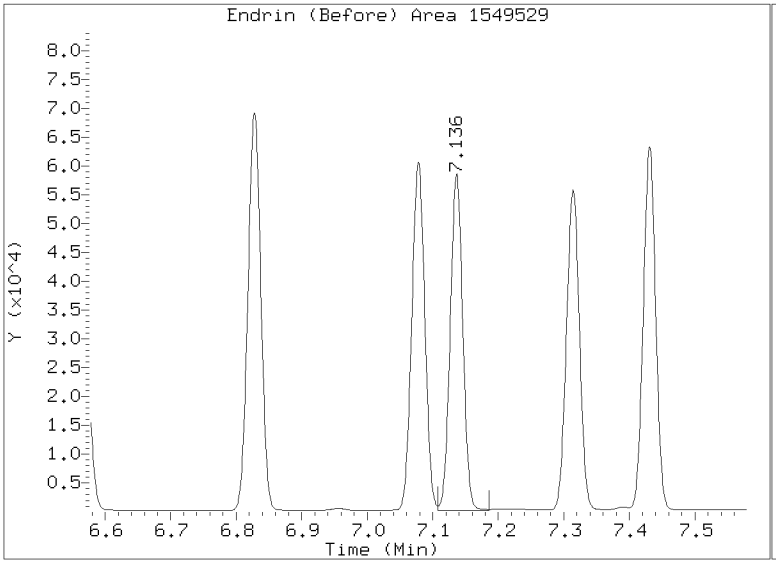
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

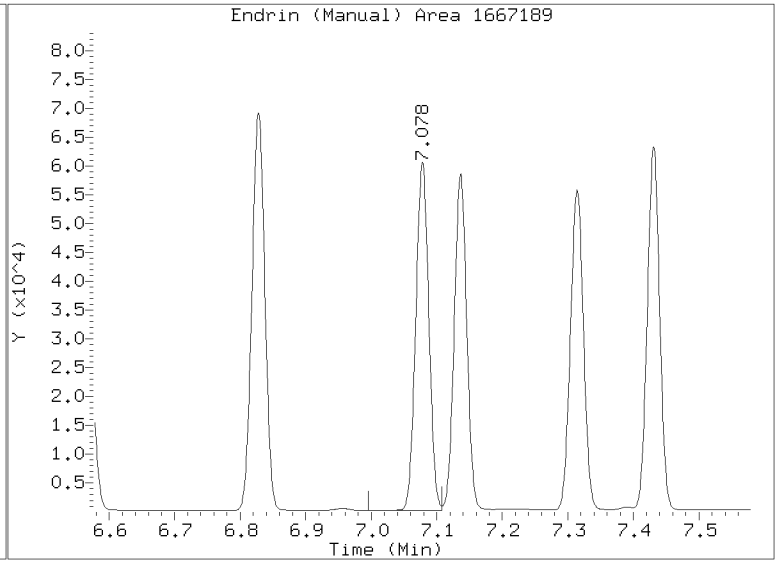






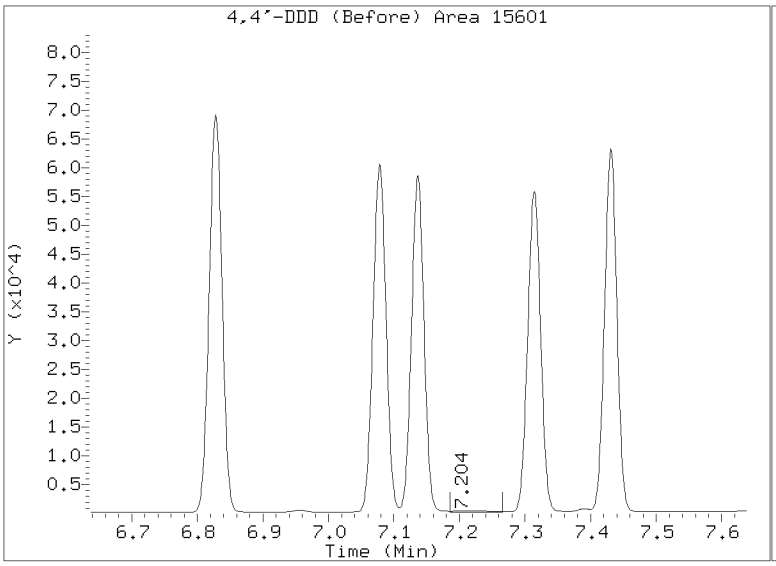


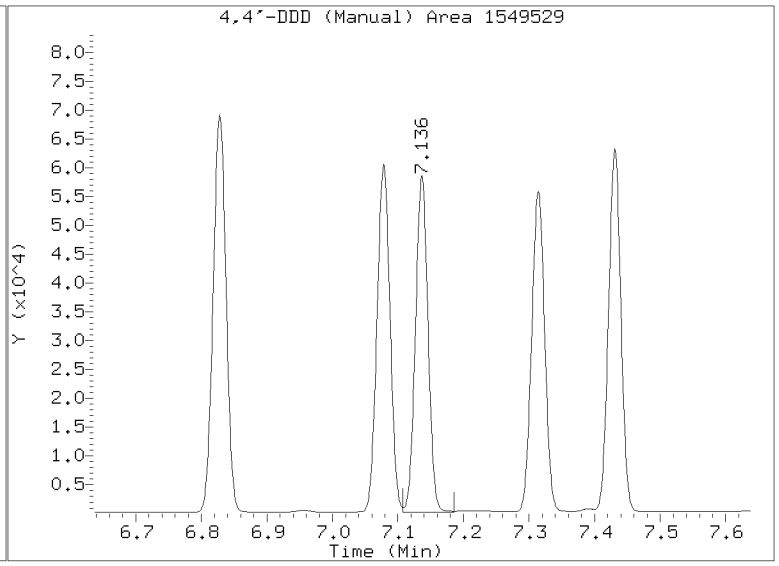


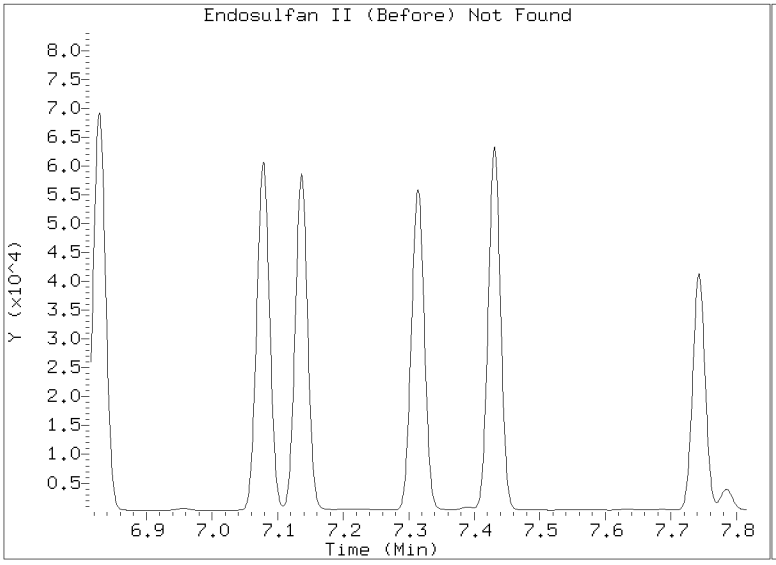


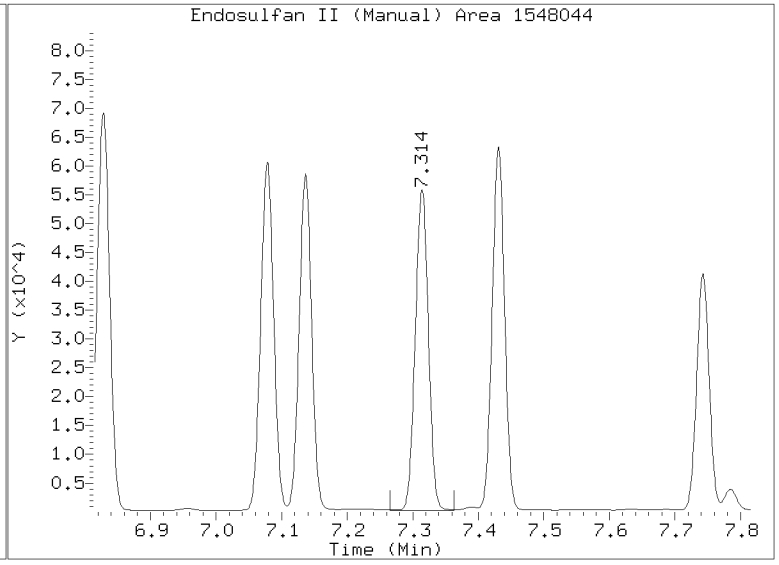
Manual Peak Adjustment Report, STX-CLP

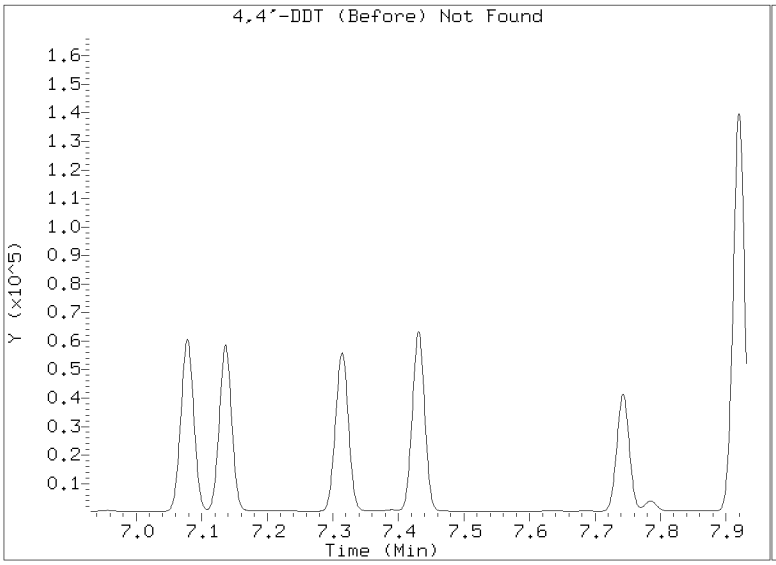
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

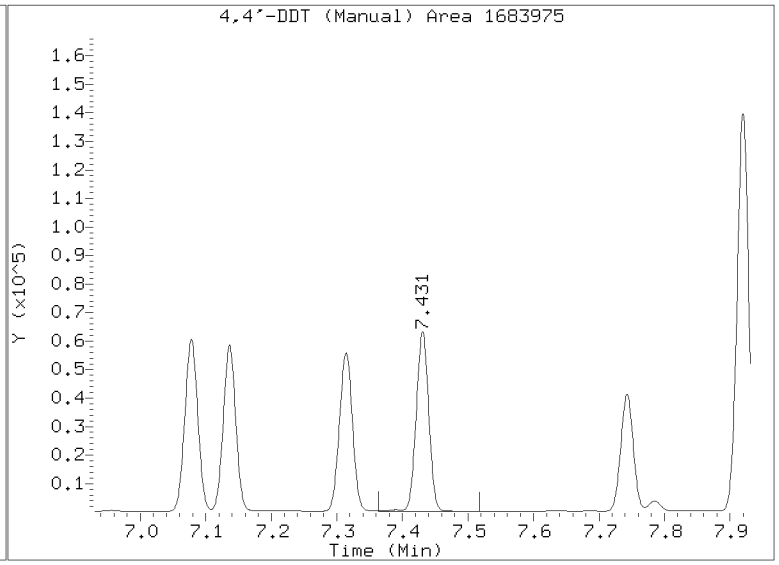






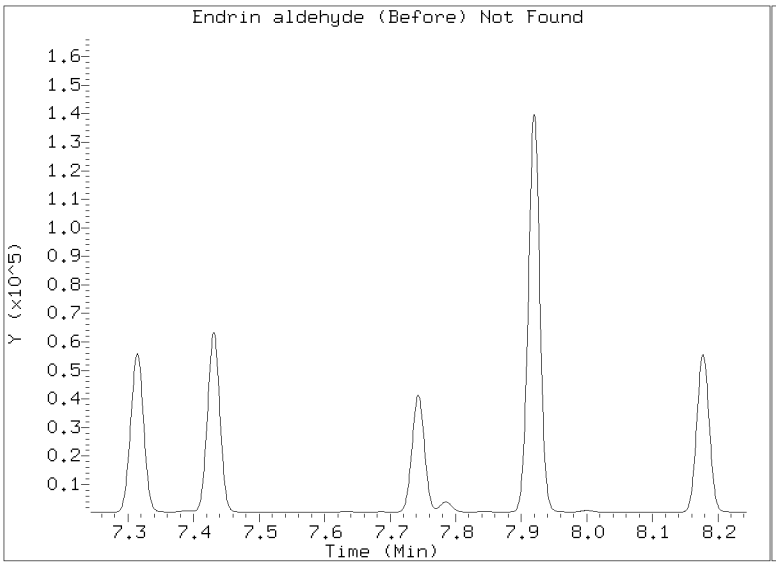


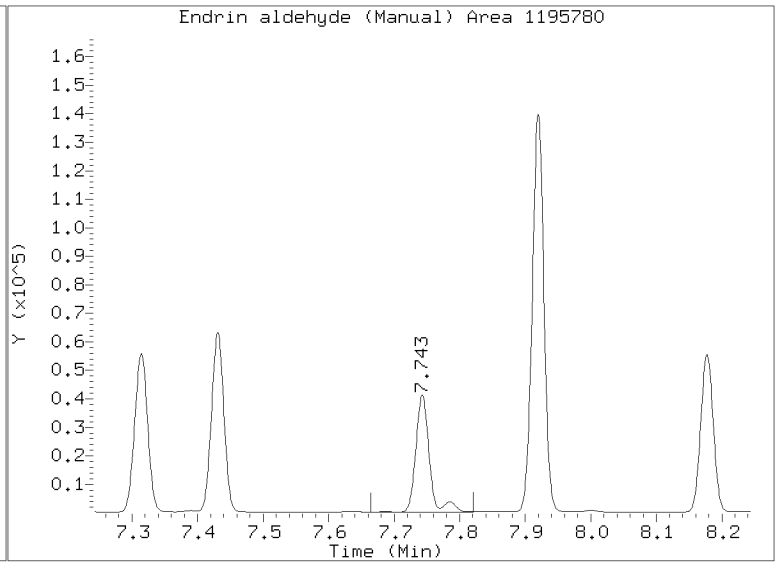


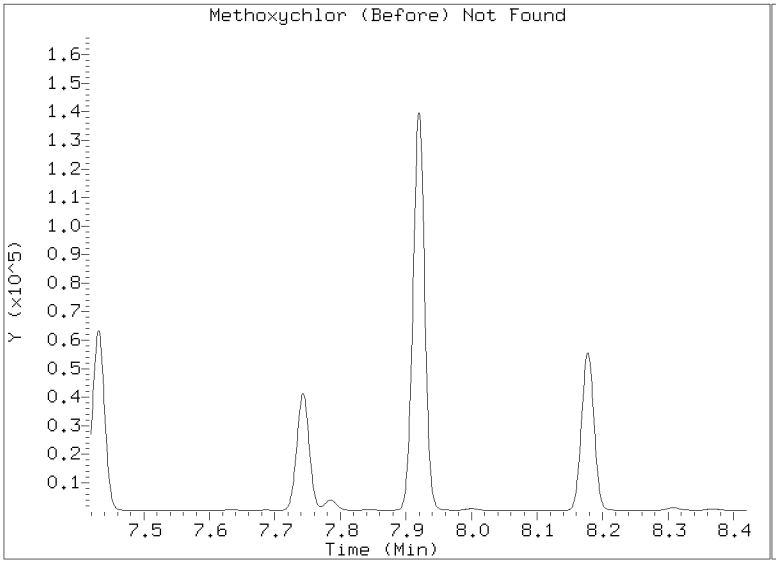


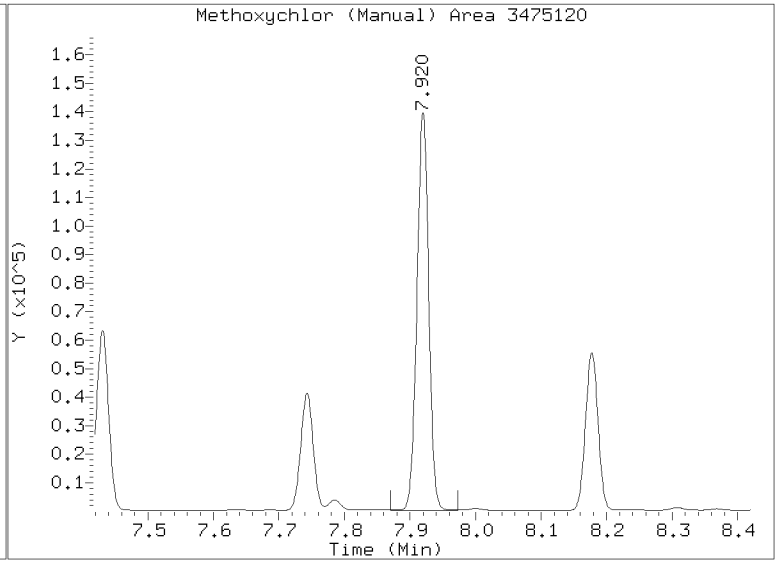
Manual Peak Adjustment Report, STX-CLP

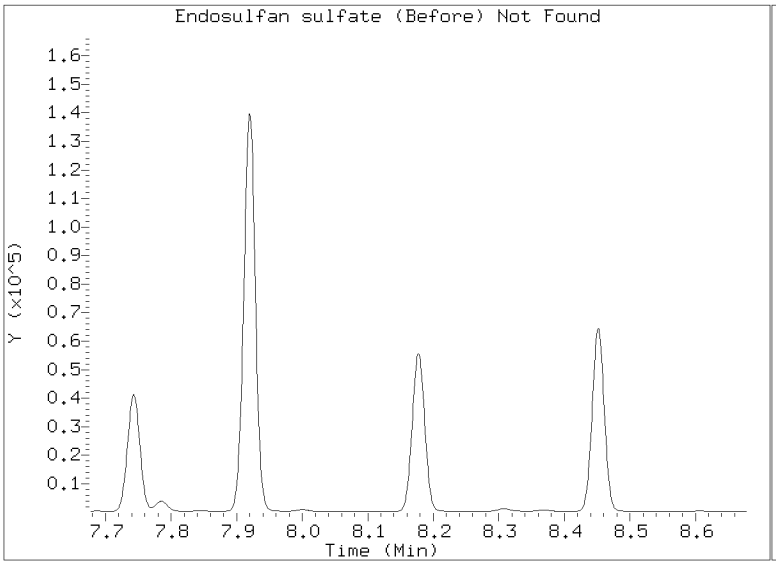
Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57

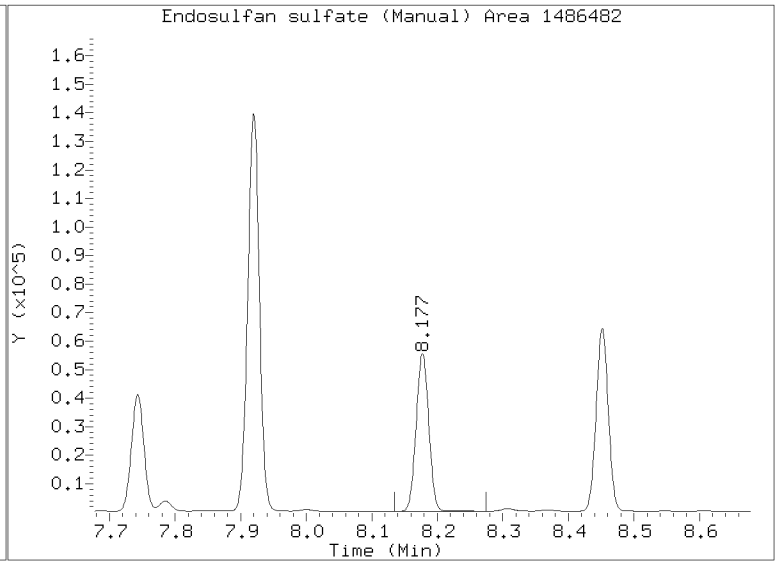






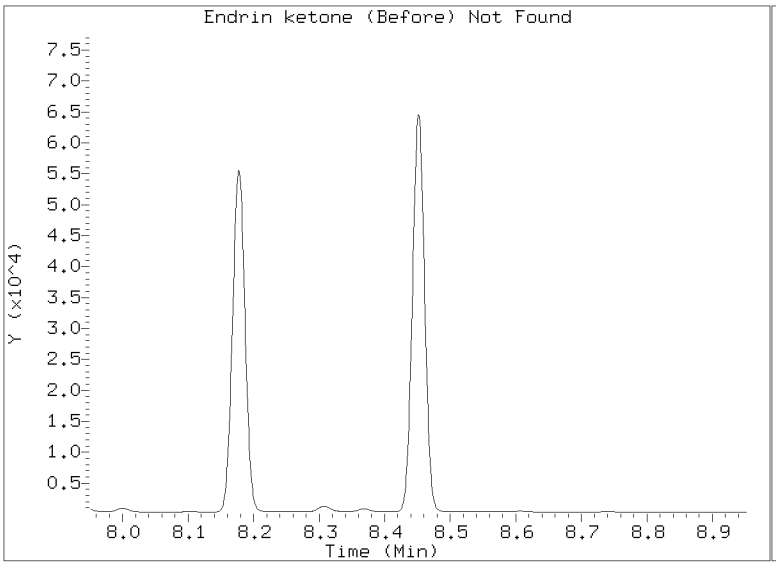


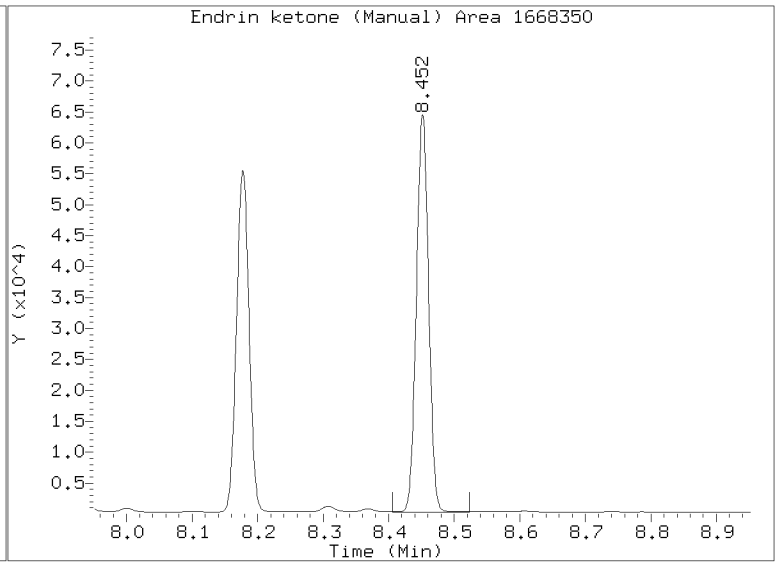


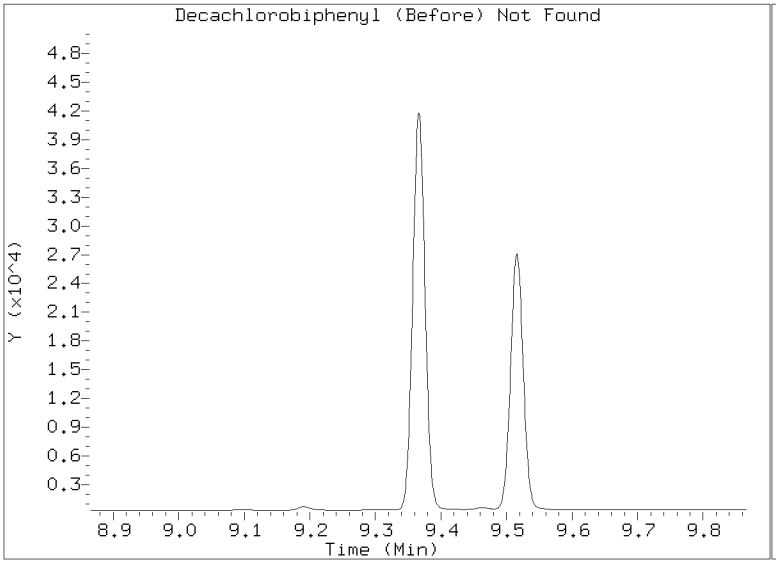


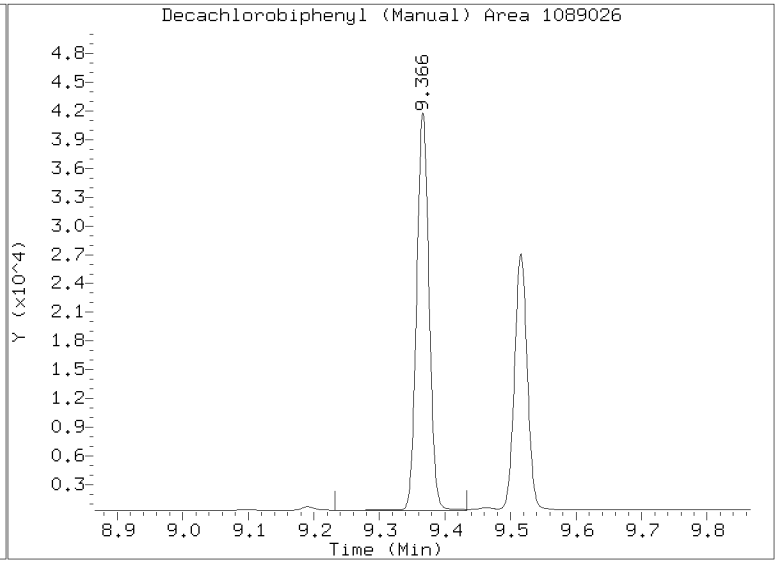
Manual Peak Adjustment Report, STX-CLP

Datafile: /20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:
Report Date: 04/13/2023 12:57



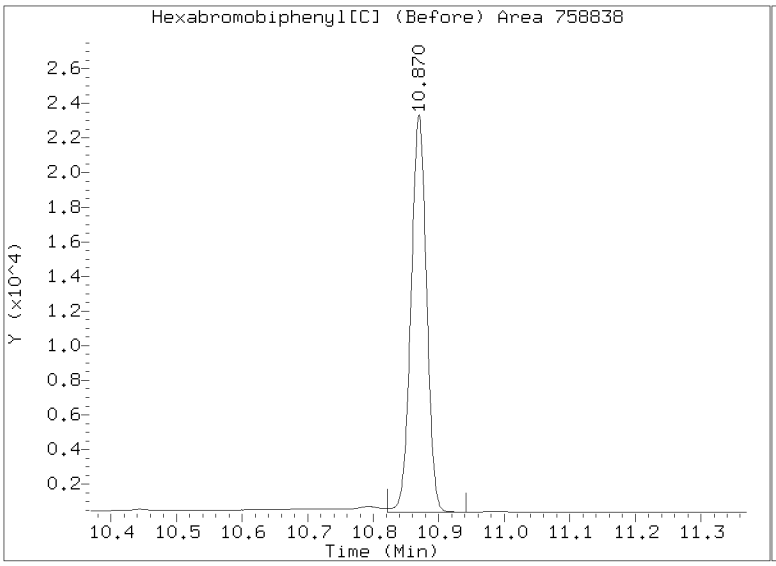


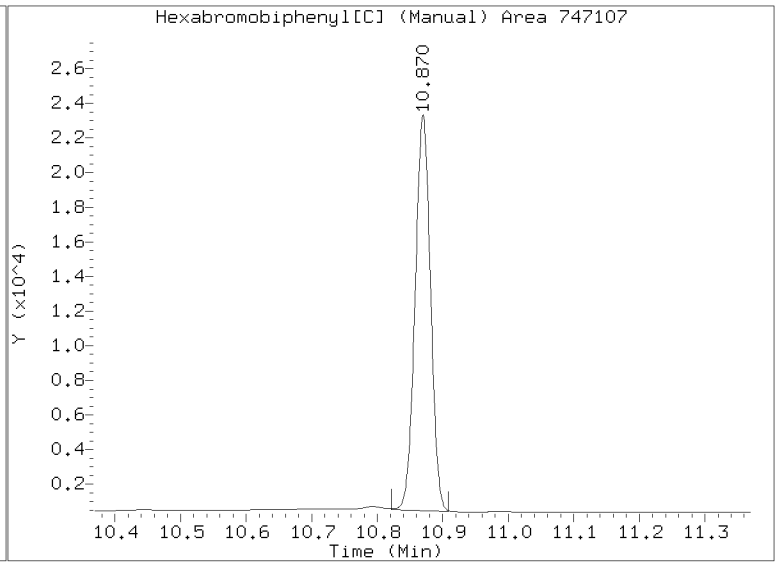




Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041210.D
Injection Date: 12-APR-2023 17:25
Lab ID:SEQ-CAL7 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041211.D
Data file 2: /20230412.b/B20230412.b/23041211.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 12-APR-2023 17:43
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.001	32738	6.624	-0.000	38532	2.95	2.72	8.2	Oxychlordane
6.106	0.001	23612	6.922	0.001	29356	2.94	2.84	3.6	2,4-DDE
6.396	0.001	37432	7.039	-0.000	43568	2.87	2.75	4.3	trans-Nonachlor
6.682	0.001	21548	7.477	-0.000	26589	2.87	2.82	2.0	2,4-DDD
6.959	0.001	26208	7.799	-0.000	30271	2.90	2.81	3.2	2,4-DDT
7.112	0.001	38299	7.859	-0.000	44124	2.81	2.69	4.4	cis-Nonachlor
8.086	0.001	25731	9.101	0.000	26963	3.06	2.85	7.3	Mirex N
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

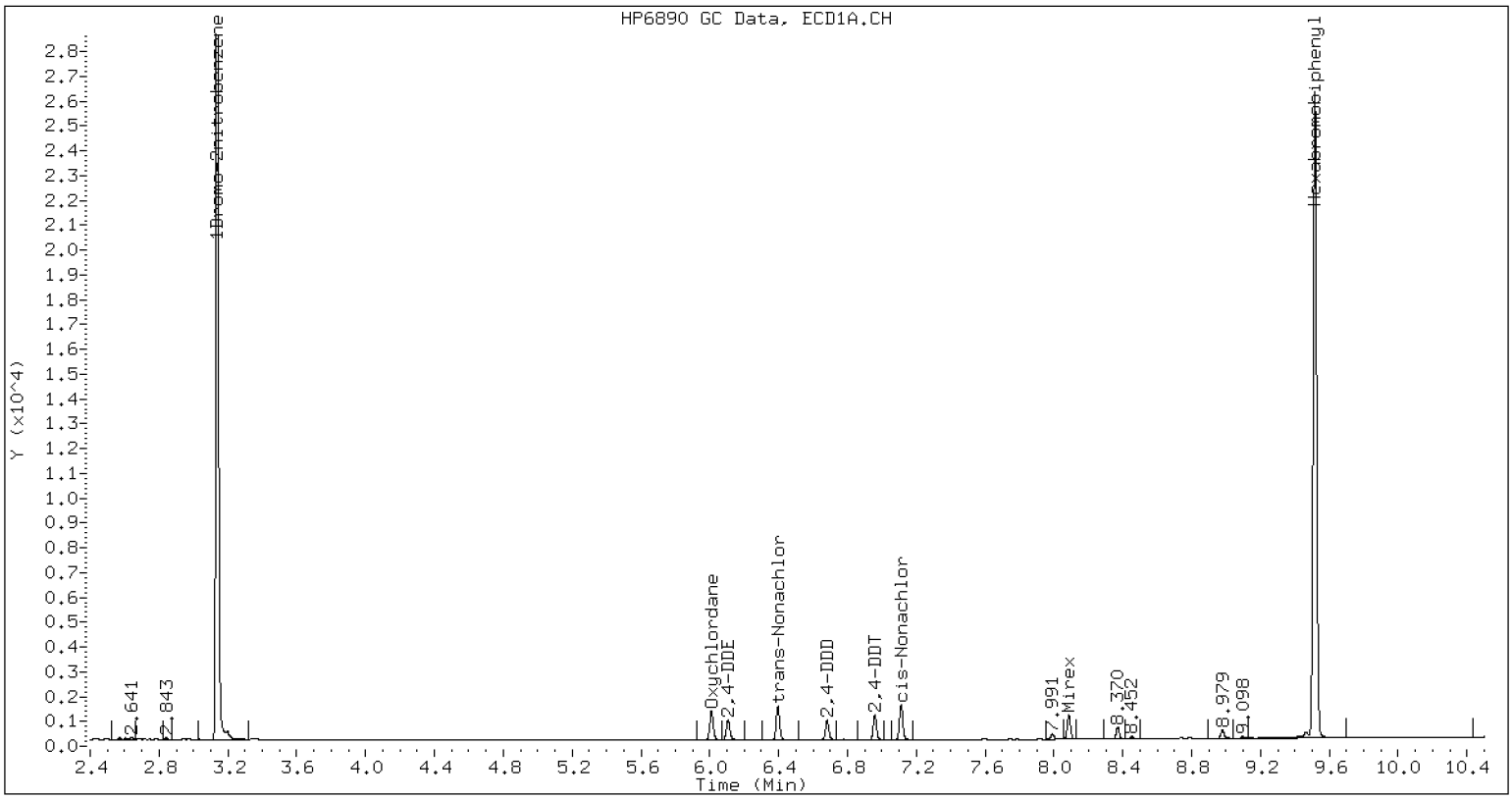
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	913523	5.7
Hexabromobiphenyl	663237	737594	11.2

Column 2

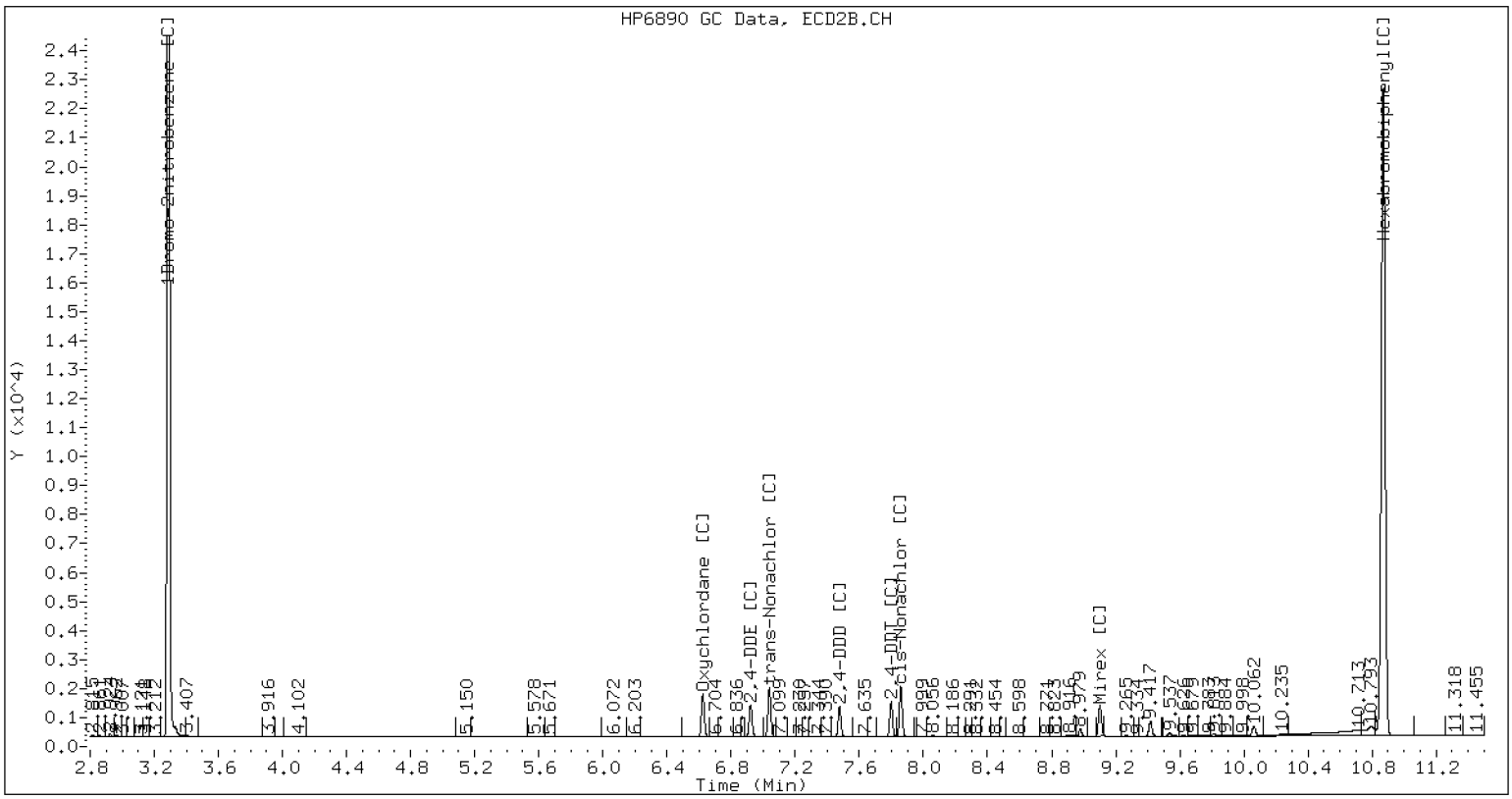
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1238562	-16.4
Hexabromobiphenyl	870561	753386	-13.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

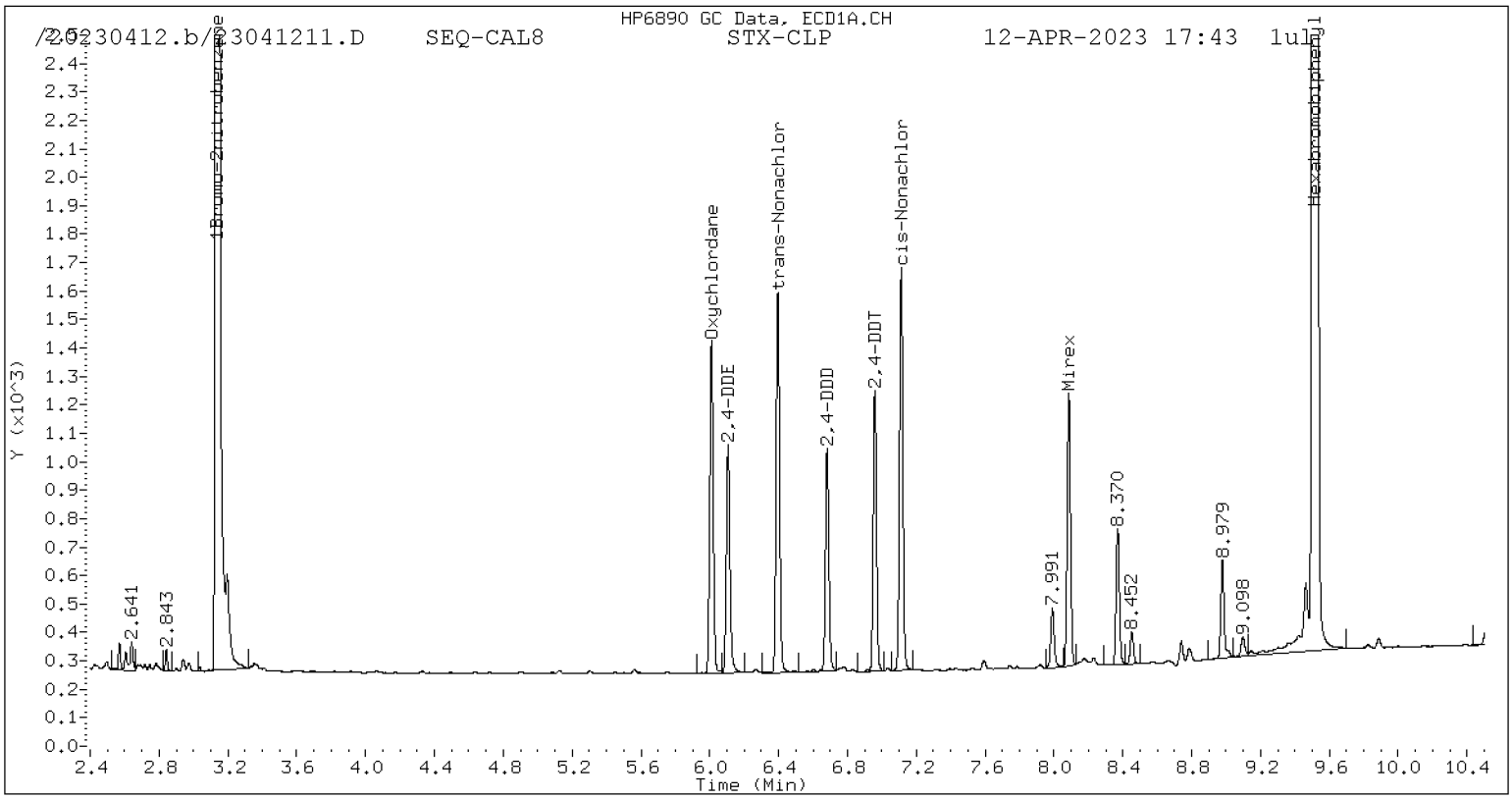
/20230412.b/23041211.D SEQ-CAL8 STX-CLP 12-APR-2023 17:43 1ul



/20230412.b/B20230412.b/23041211.D SEQ-CAL8 CLP2 12-APR-2023 17:43 1ul

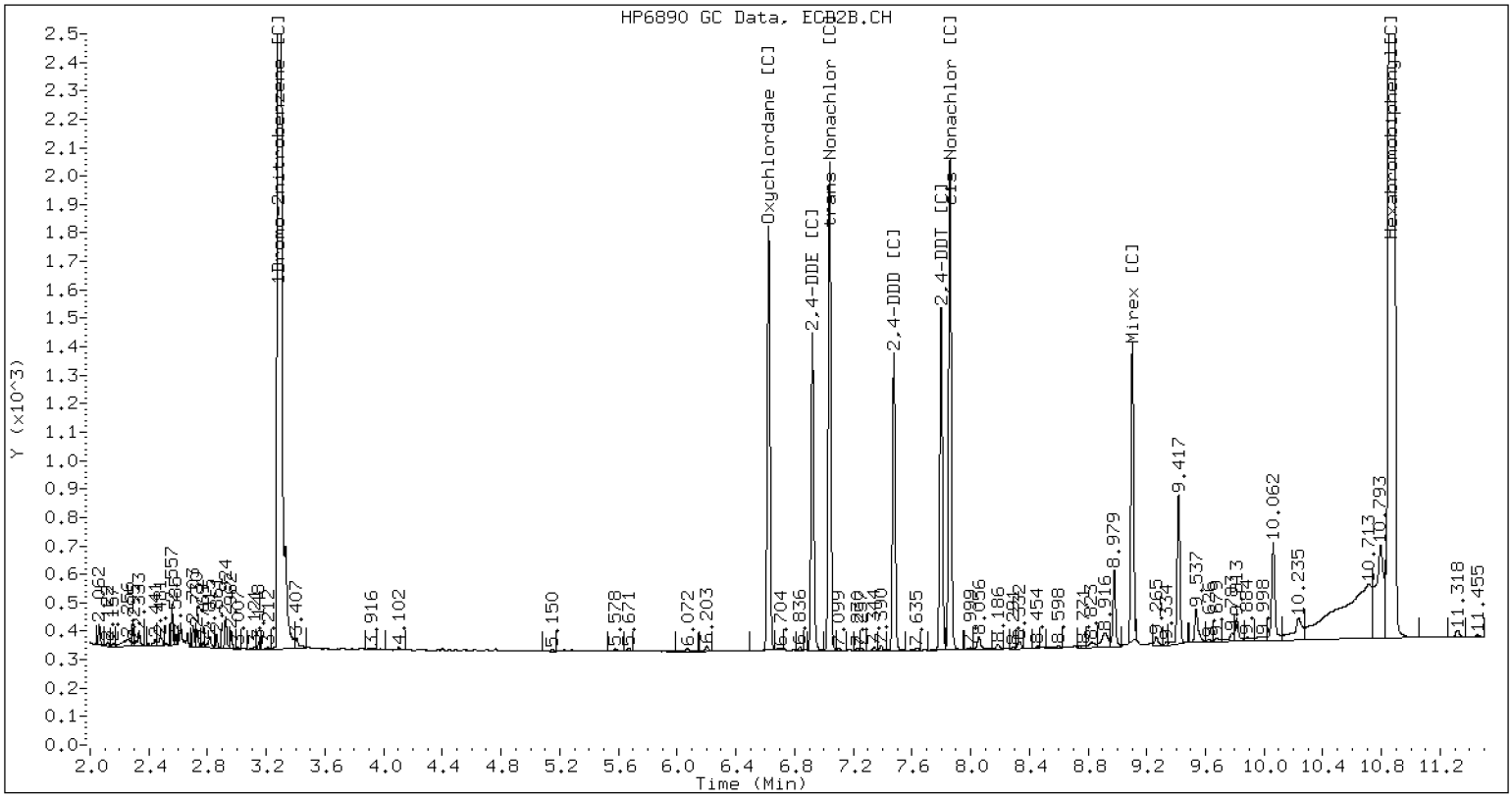


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

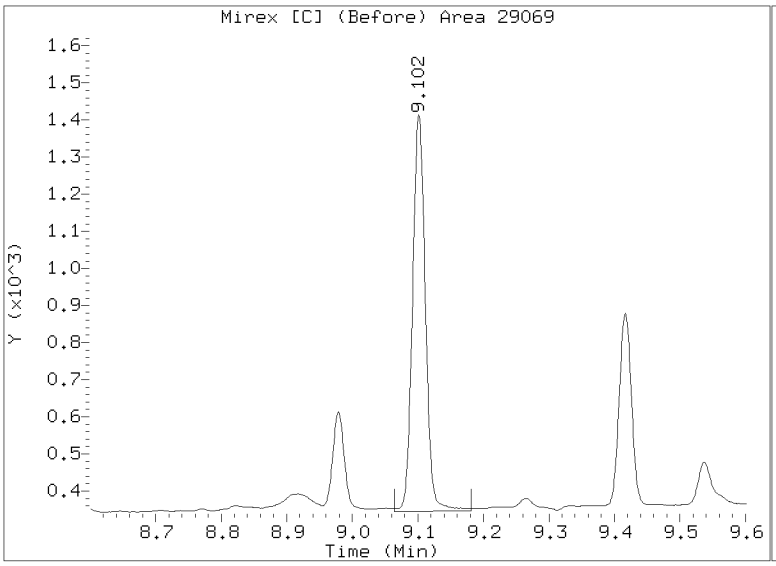
/20230412.b/B20230412.b/23041211.D SEQ-CAL8 CLP2

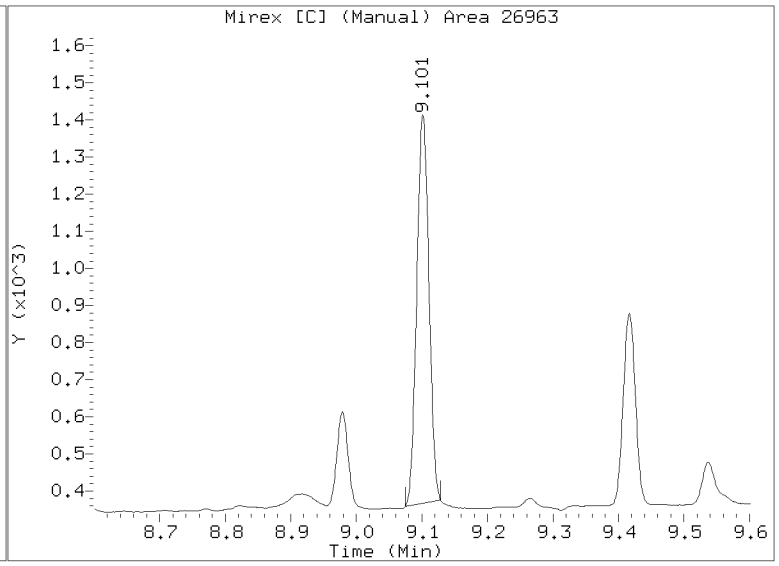


CLP-2 Manual Integration: YES

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041211.D
Injection Date: 12-APR-2023 17:43
Lab ID:SEQ-CAL8 Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041212.D
Data file 2: /20230412.b/B20230412.b/23041212.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 12-APR-2023 18:02
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.001	60226	6.624	-0.000	77029	5.15	5.33	3.5	Oxychlordane
6.106	0.001	45692	6.921	0.000	57608	5.39	5.45	1.1	2,4-DDE
6.396	0.001	73158	7.038	-0.001	81213	5.33	4.94	7.6	trans-Nonachlor
6.682	0.001	41900	7.477	-0.000	51791	5.31	5.30	0.3	2,4-DDD
6.959	0.000	51131	7.798	-0.001	58989	5.37	5.28	1.8	2,4-DDT
7.112	0.000	75575	7.858	-0.001	87575	5.29	5.15	2.7	cis-Nonachlor
8.086	0.001	47358	9.101	0.000	53365	5.31	5.44	2.5	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

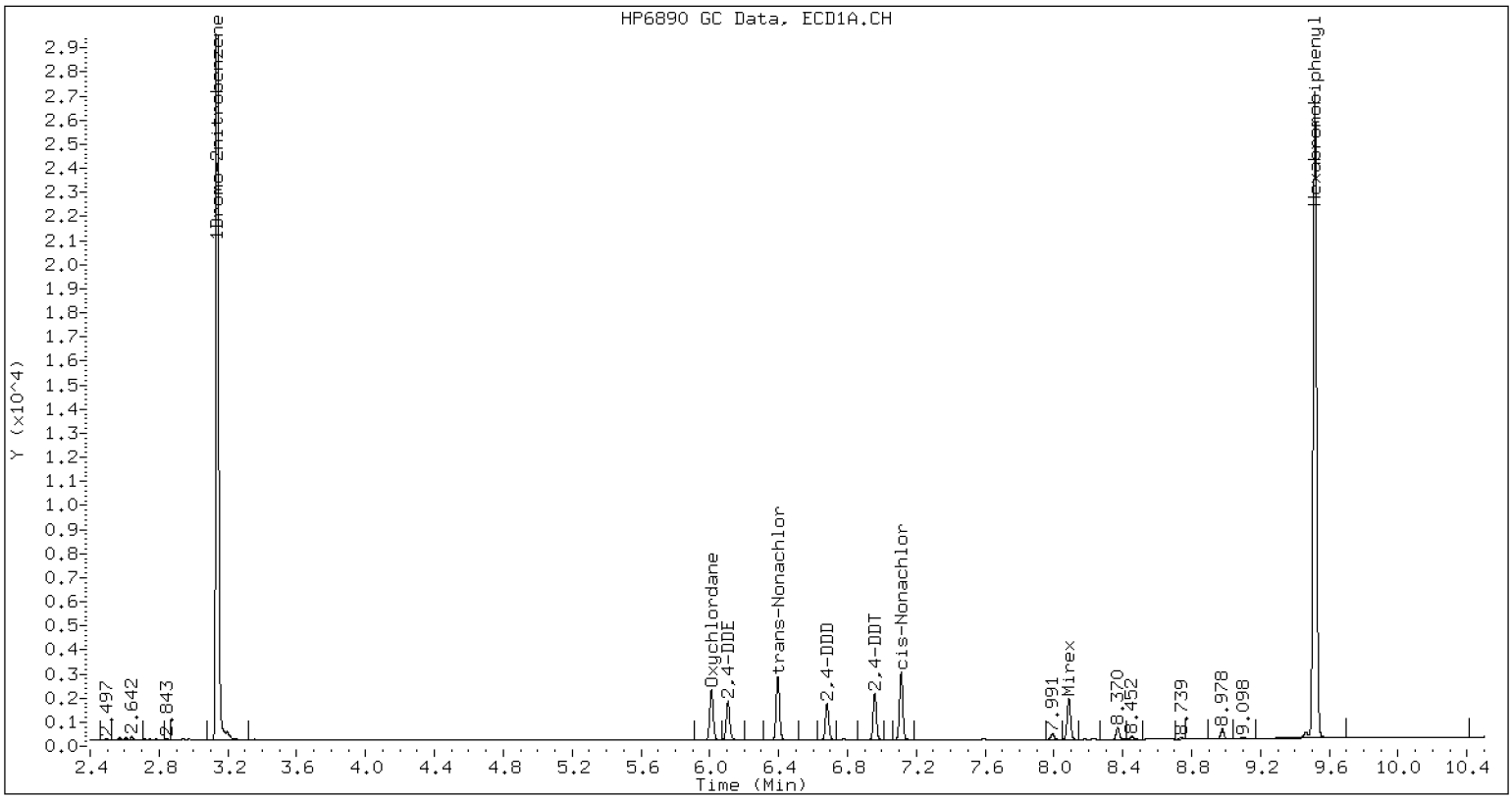
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	930904	7.7
Hexabromobiphenyl	663237	759389	14.5

Column 2

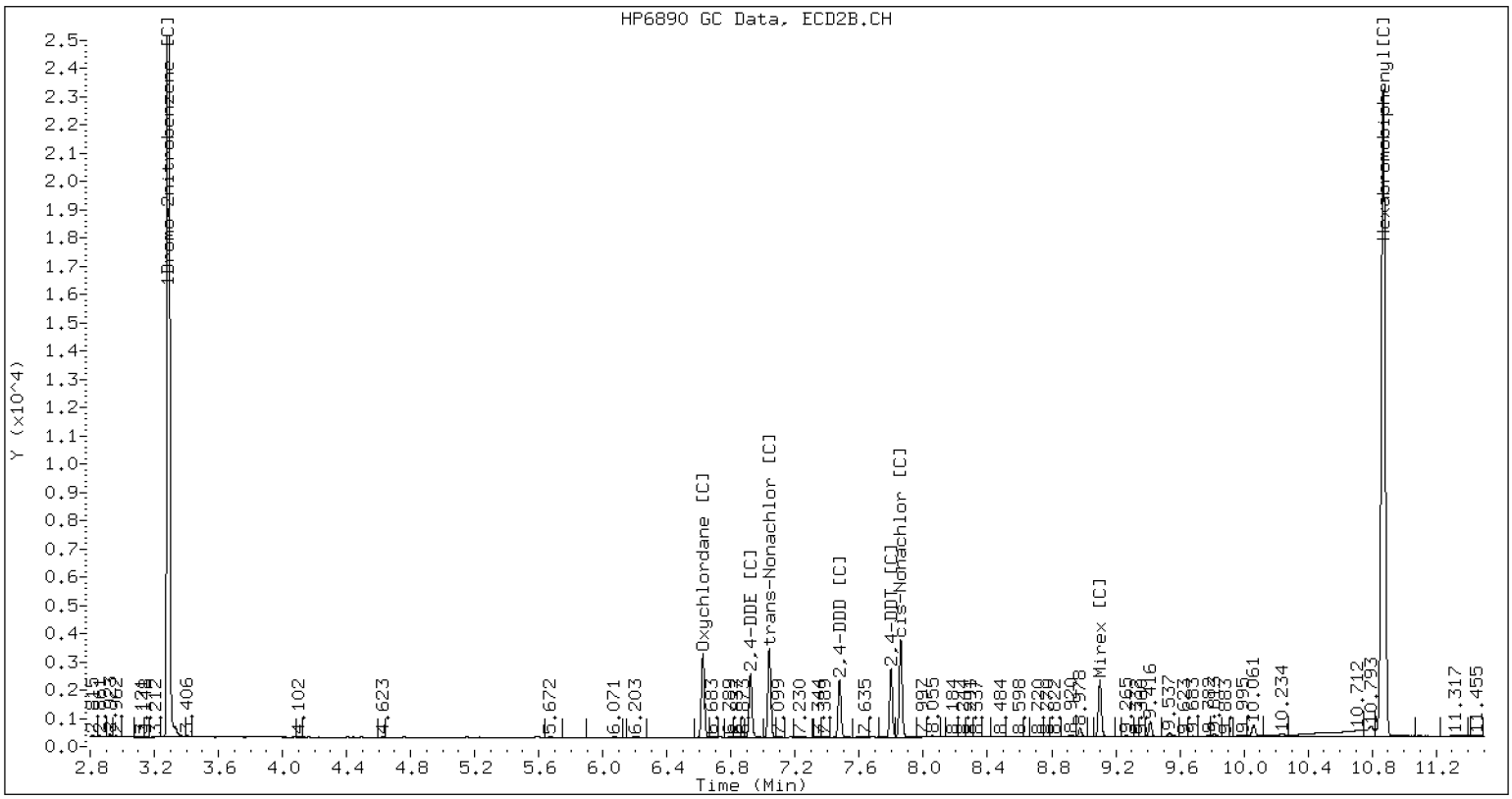
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1264392	-14.6
Hexabromobiphenyl	870561	780703	-10.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

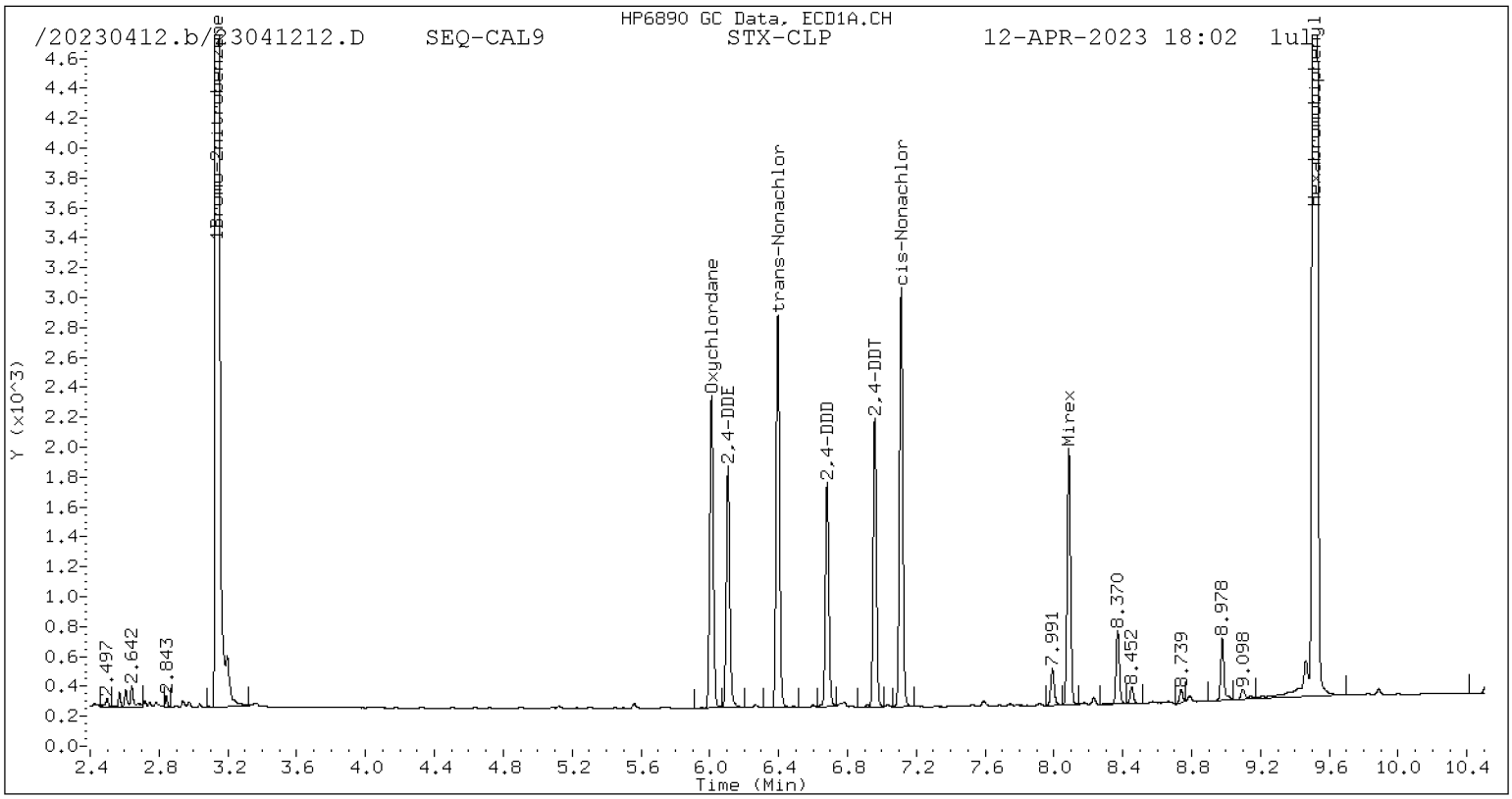
/20230412.b/23041212.D SEQ-CAL9 STX-CLP 12-APR-2023 18:02 1ul



/20230412.b/B20230412.b/23041212.D SEQ-CAL9 CLP2 12-APR-2023 18:02 1ul

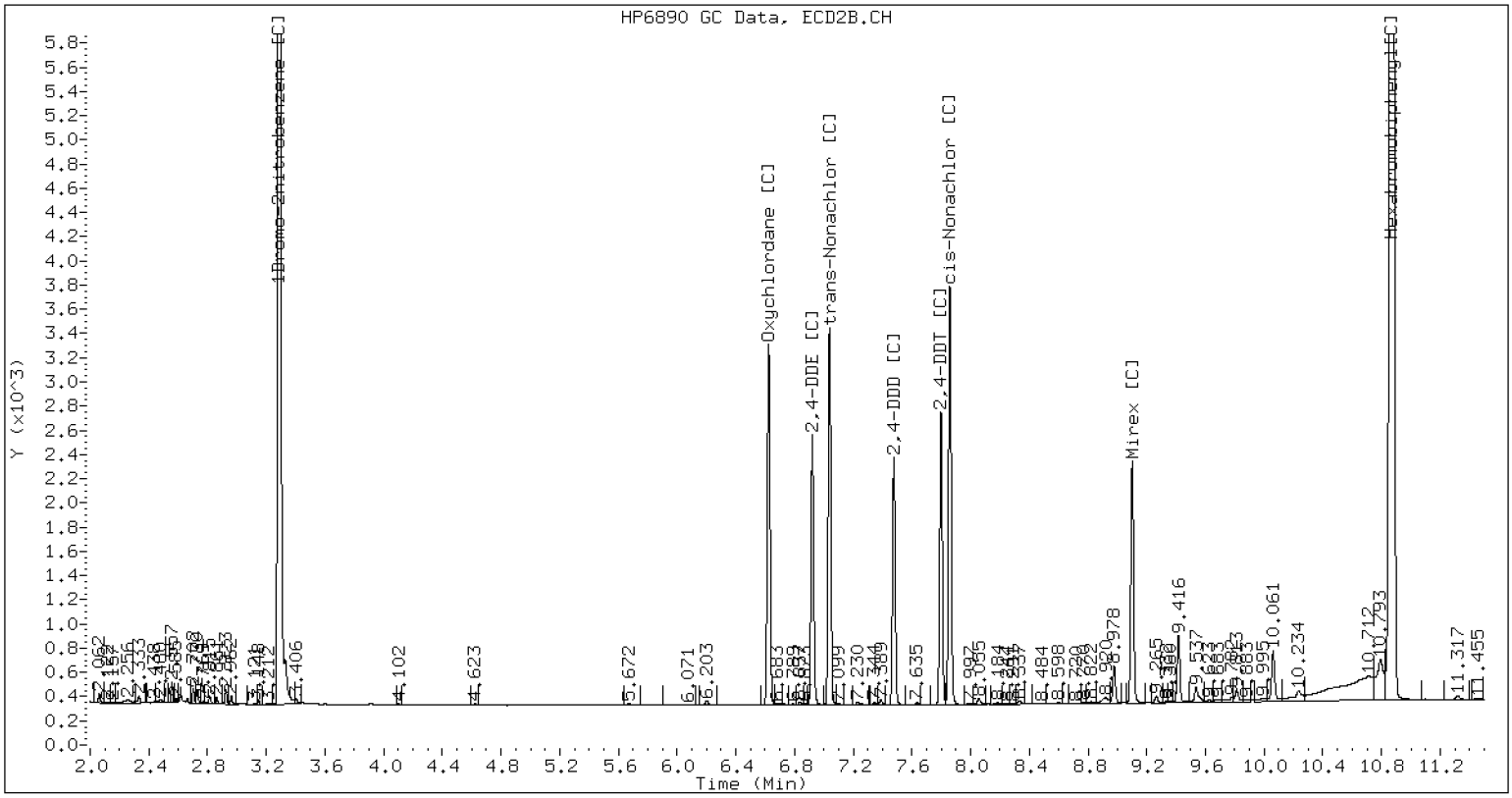


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041212.D SEQ-CAL9 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041213.D
Data file 2: /20230412.b/B20230412.b/23041213.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 12-APR-2023 18:20
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.009	-0.000	123278	6.624	0.000	151270	10.75	10.37	3.6	Oxychlordane
6.106	0.001	89835	6.921	0.000	112895	10.82	10.59	2.2	2,4-DDE
6.396	0.001	141201	7.039	-0.000	170866	10.50	10.56	0.6	trans-Nonachlor
6.682	0.001	83598	7.477	-0.000	100942	10.82	10.49	3.1	2,4-DDD
6.959	0.000	99988	7.799	-0.000	115070	10.72	10.46	2.4	2,4-DDT
7.112	0.000	146847	7.859	0.000	173382	10.50	10.37	1.3	cis-Nonachlor
8.086	0.001	92734	9.101	0.000	100630	10.60	10.42	1.7	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

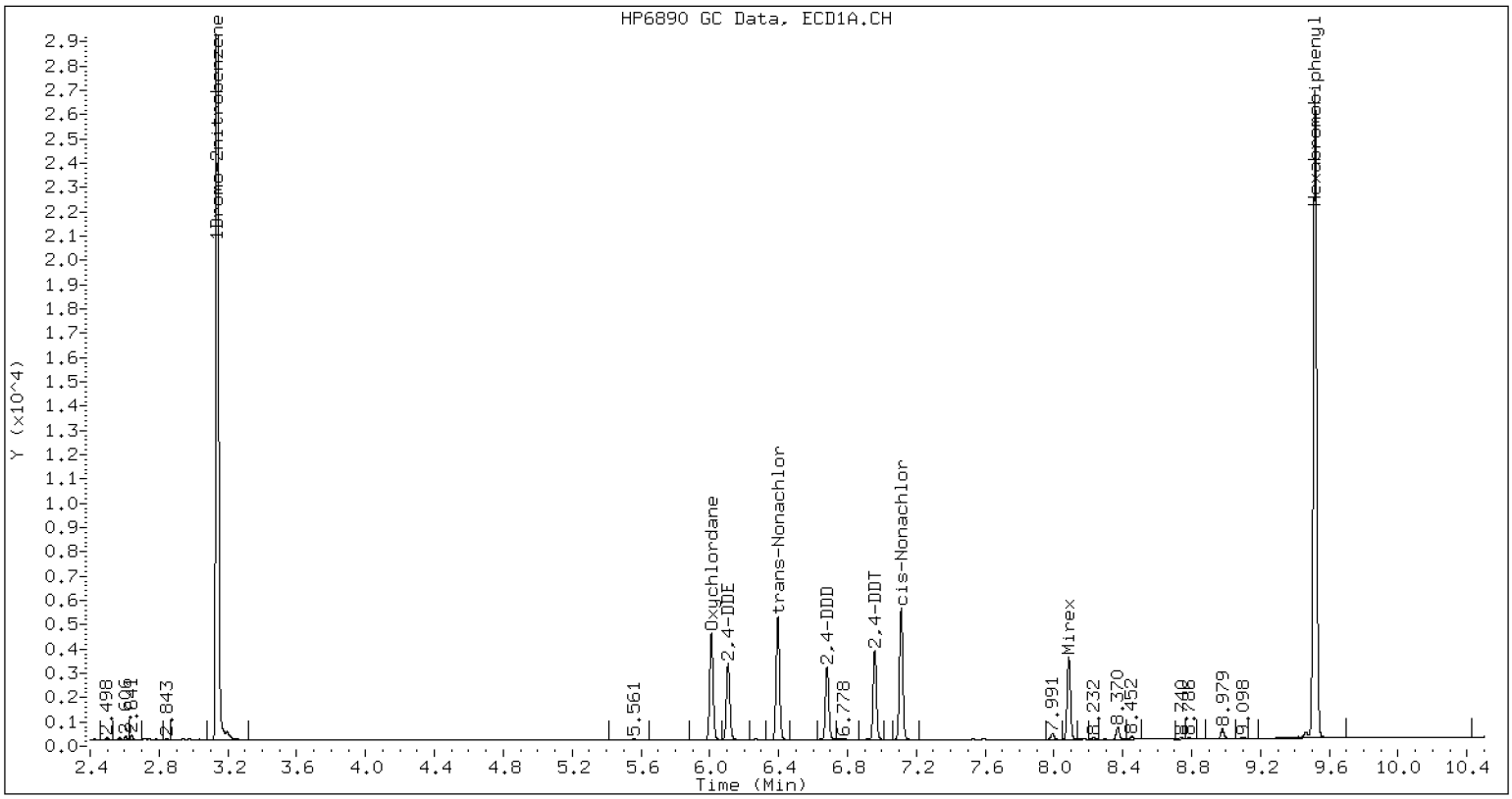
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	924798	7.0
Hexabromobiphenyl	663237	744140	12.2

Column 2

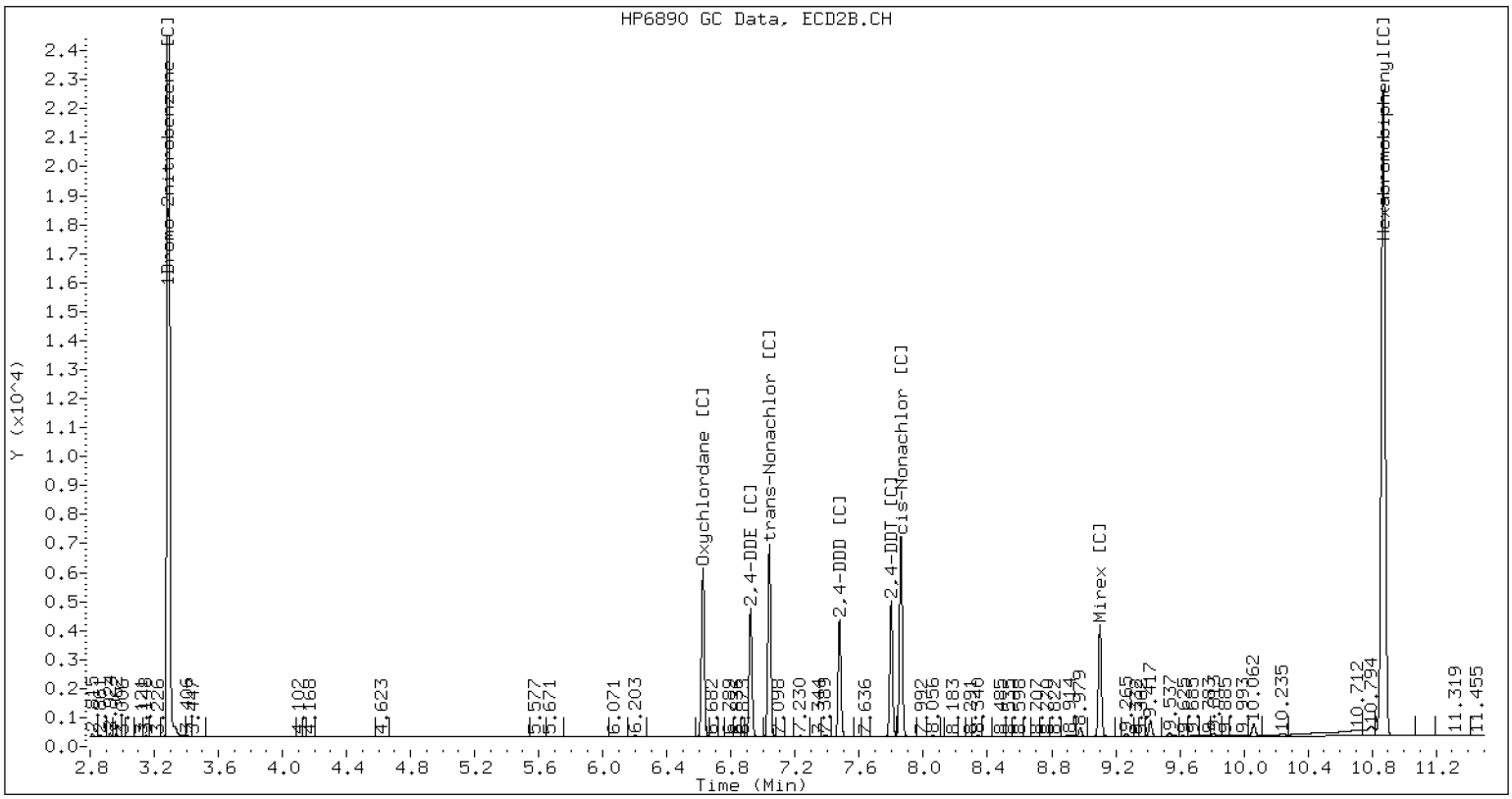
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1276044	-13.8
Hexabromobiphenyl	870561	768340	-11.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

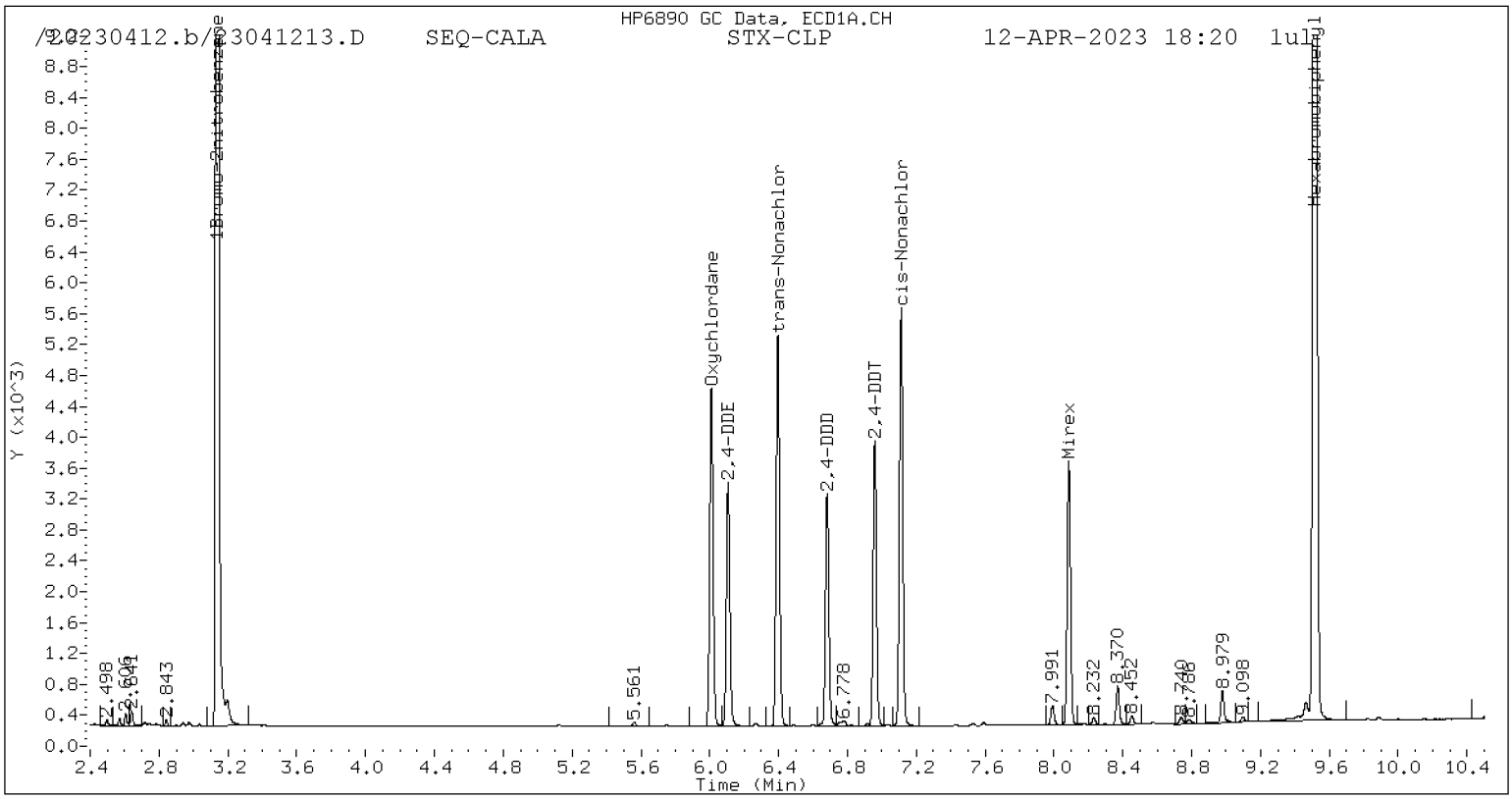
/20230412.b/23041213.D SEQ-CALA STX-CLP 12-APR-2023 18:20 1ul



/20230412.b/B20230412.b/23041213.D SEQ-CALA CLP2 12-APR-2023 18:20 1ul

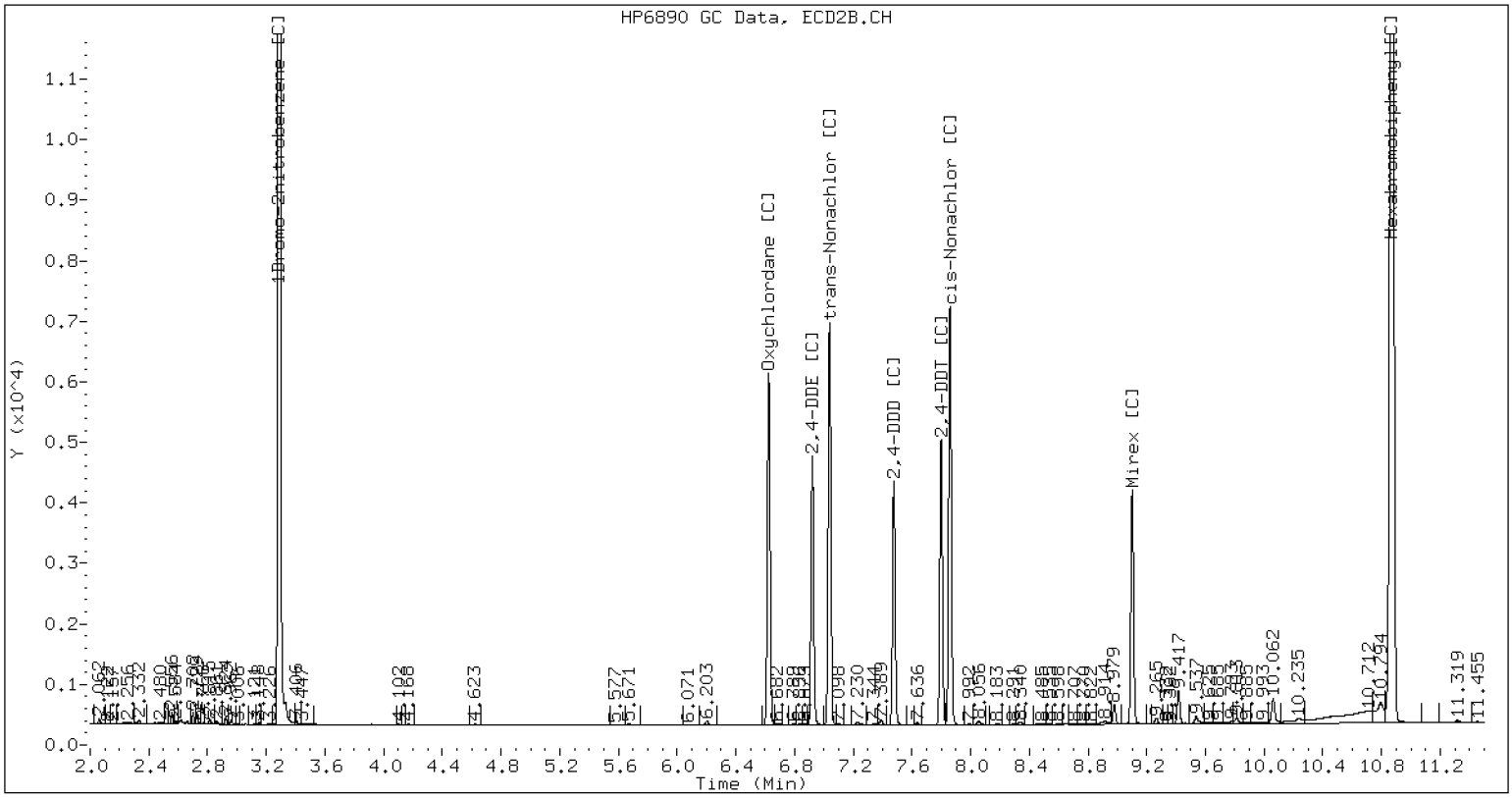


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041213.D SEQ-CALA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041214.D
Data file 2: /20230412.b/B20230412.b/23041214.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 12-APR-2023 18:38
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.000	234579	6.624	0.000	293794	20.52	20.63	0.5	Oxychlordane
6.106	0.001	170299	6.922	0.001	216226	20.59	20.78	0.9	2,4-DDE
6.396	0.001	271524	7.039	0.000	333381	20.26	20.64	1.8	trans-Nonachlor
6.682	0.000	158357	7.476	-0.001	195047	20.57	20.30	1.3	2,4-DDD
6.960	0.001	190595	7.799	-0.000	223003	20.50	20.30	1.0	2,4-DDT
7.112	0.001	283023	7.859	0.000	341543	20.31	20.45	0.7	cis-Nonachlor
8.086	0.000	174624	9.101	0.000	190241	20.04	19.74	1.5	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			10.309	0.003	2954	0.00	0.32	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

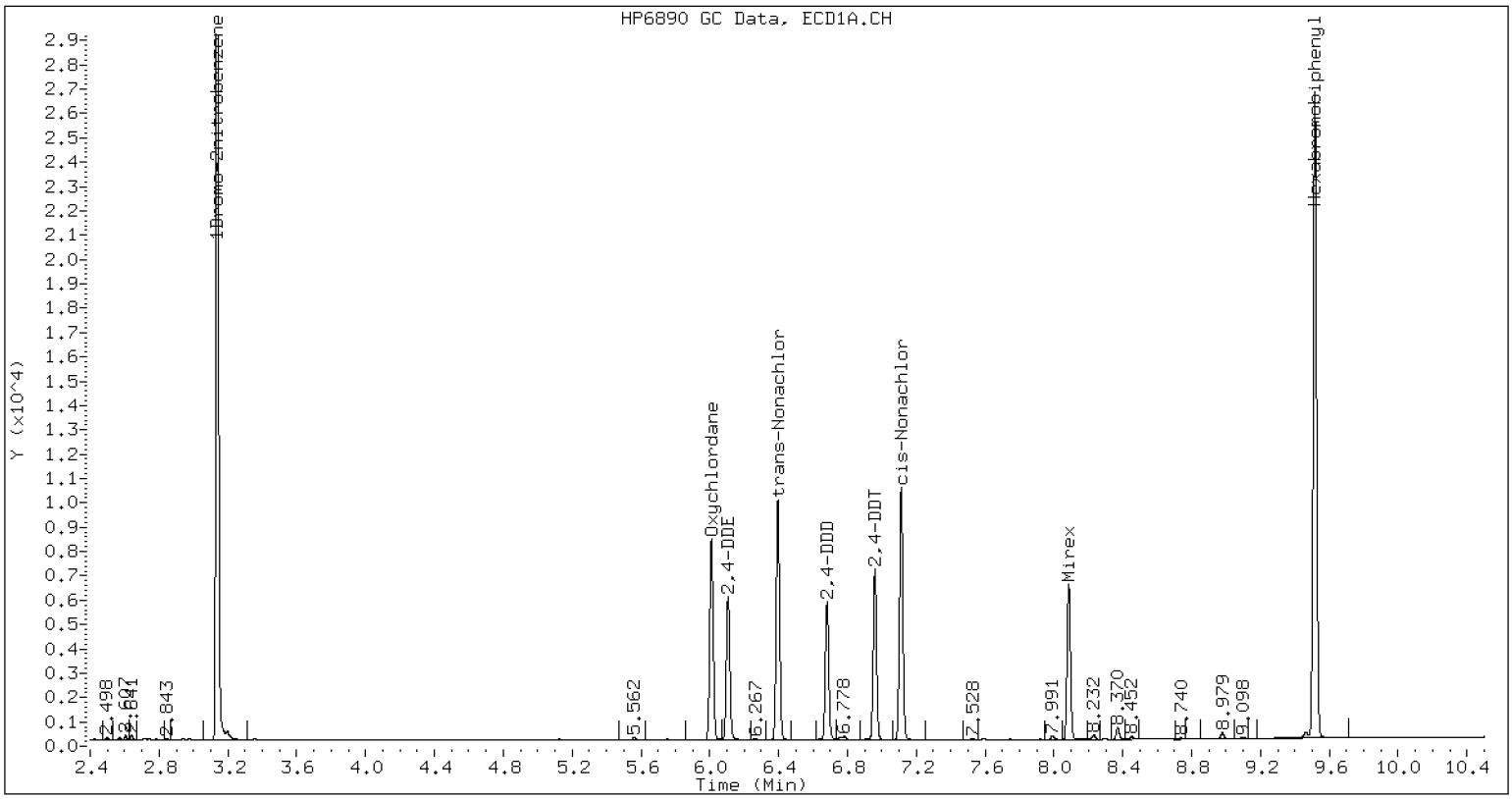
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	899601	4.1
Hexabromobiphenyl	663237	741497	11.8

Column 2

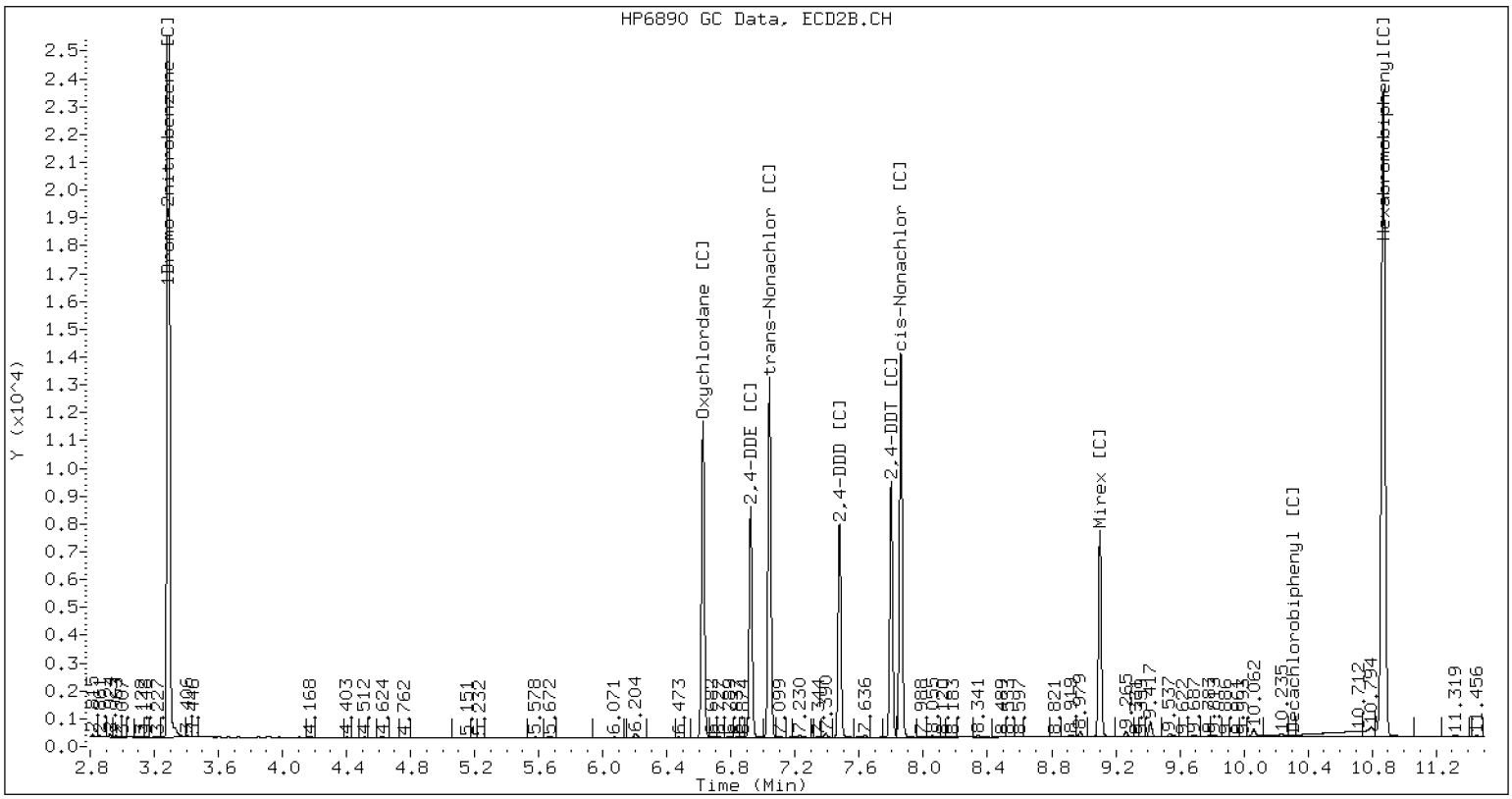
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1245547	-15.9
Hexabromobiphenyl	870561	767183	-11.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

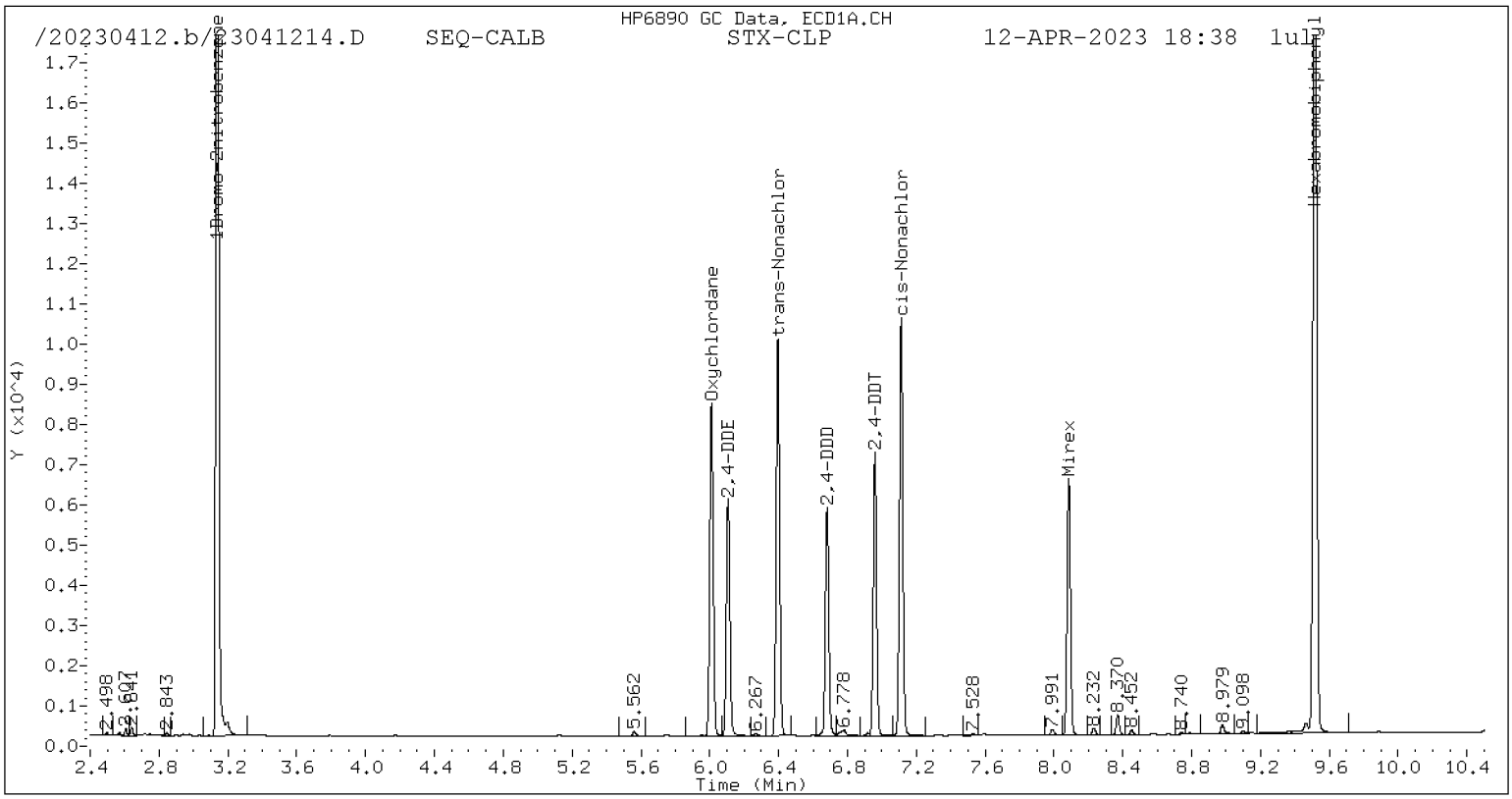
/20230412.b/23041214.D SEQ-CALB STX-CLP 12-APR-2023 18:38 1ul



/20230412.b/B20230412.b/23041214.D SEQ-CALB CLP2 12-APR-2023 18:38 1ul

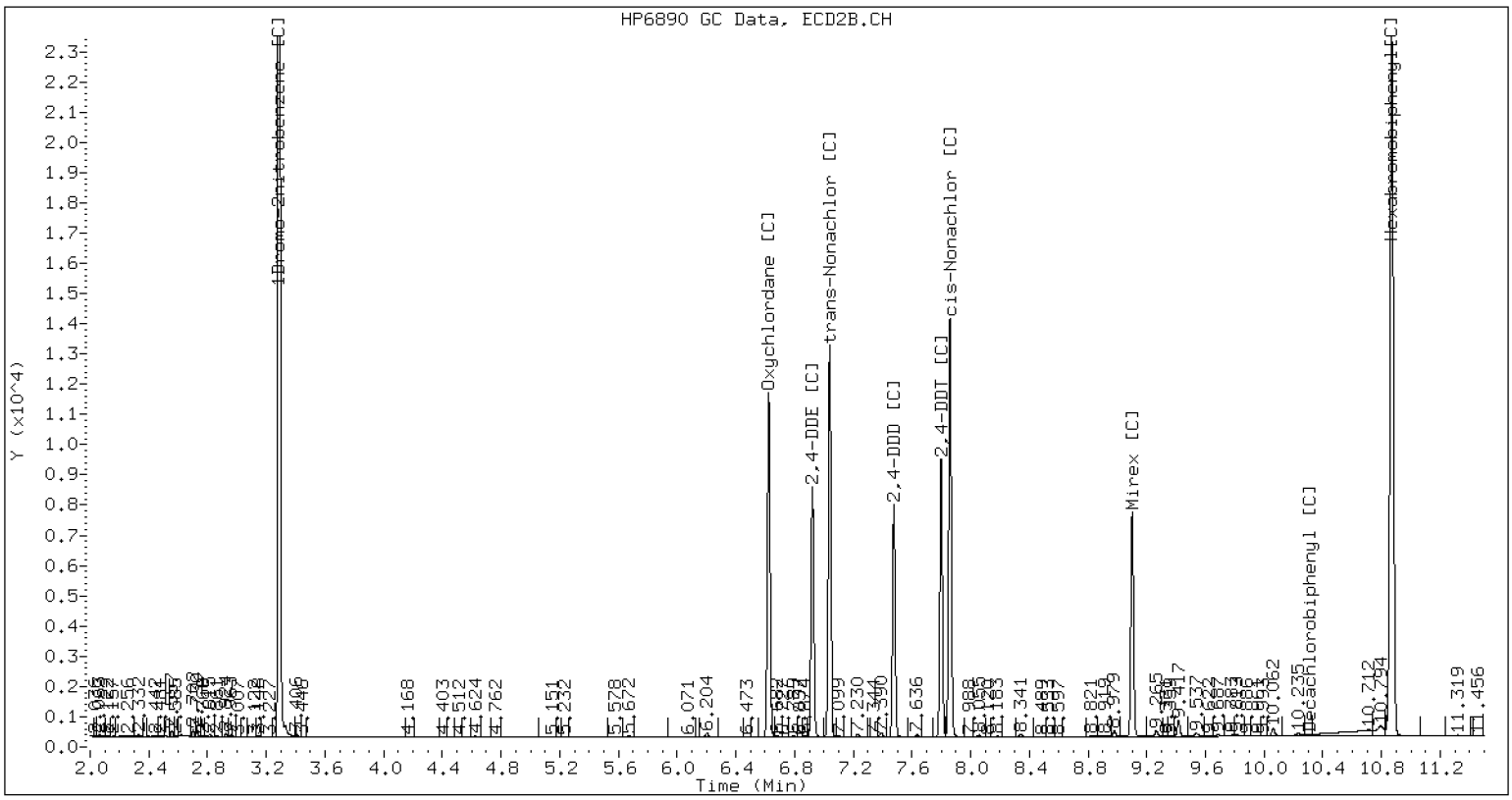


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041214.D SEQ-CALB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041215.D
Data file 2: /20230412.b/B20230412.b/23041215.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 12-APR-2023 18:57
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.001	441791	6.624	0.000	561341	39.12	39.67	1.4	Oxychlordane
6.106	0.001	318110	6.921	0.000	406232	38.93	39.30	0.9	2,4-DDE
6.396	0.001	517172	7.039	-0.000	640936	39.06	40.16	2.8	trans-Nonachlor
6.681	-0.000	297604	7.476	-0.001	372629	39.12	39.26	0.3	2,4-DDD
6.959	0.001	358310	7.799	-0.000	427178	39.01	39.36	0.9	2,4-DDT
7.112	0.000	540011	7.859	-0.000	659204	39.22	39.95	1.9	cis-Nonachlor
8.086	0.000	328833	9.101	-0.000	364657	38.19	38.29	0.3	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			10.309	0.003	2755	0.00	0.30	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

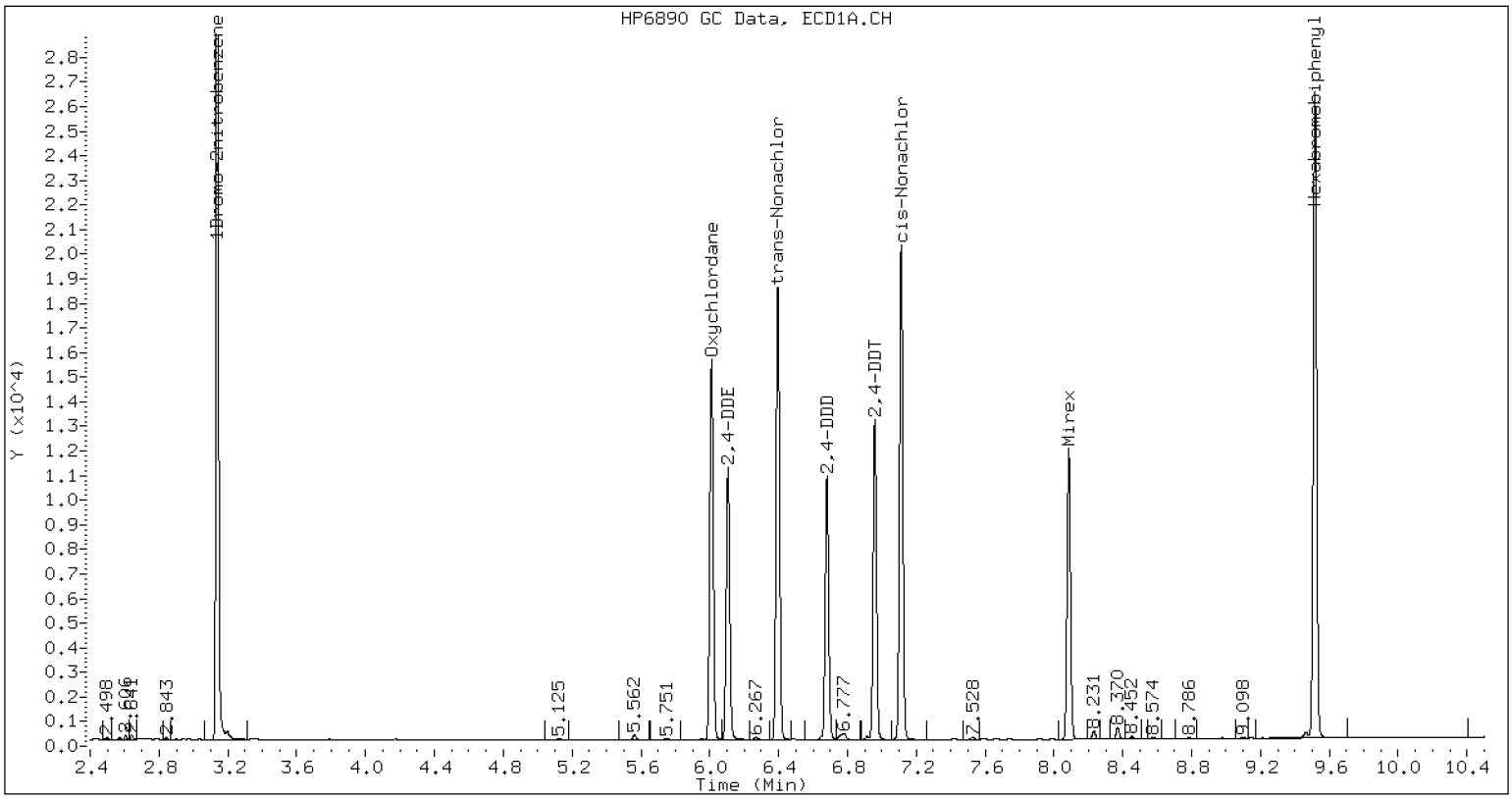
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	887506	2.7
Hexabromobiphenyl	663237	732612	10.5

Column 2

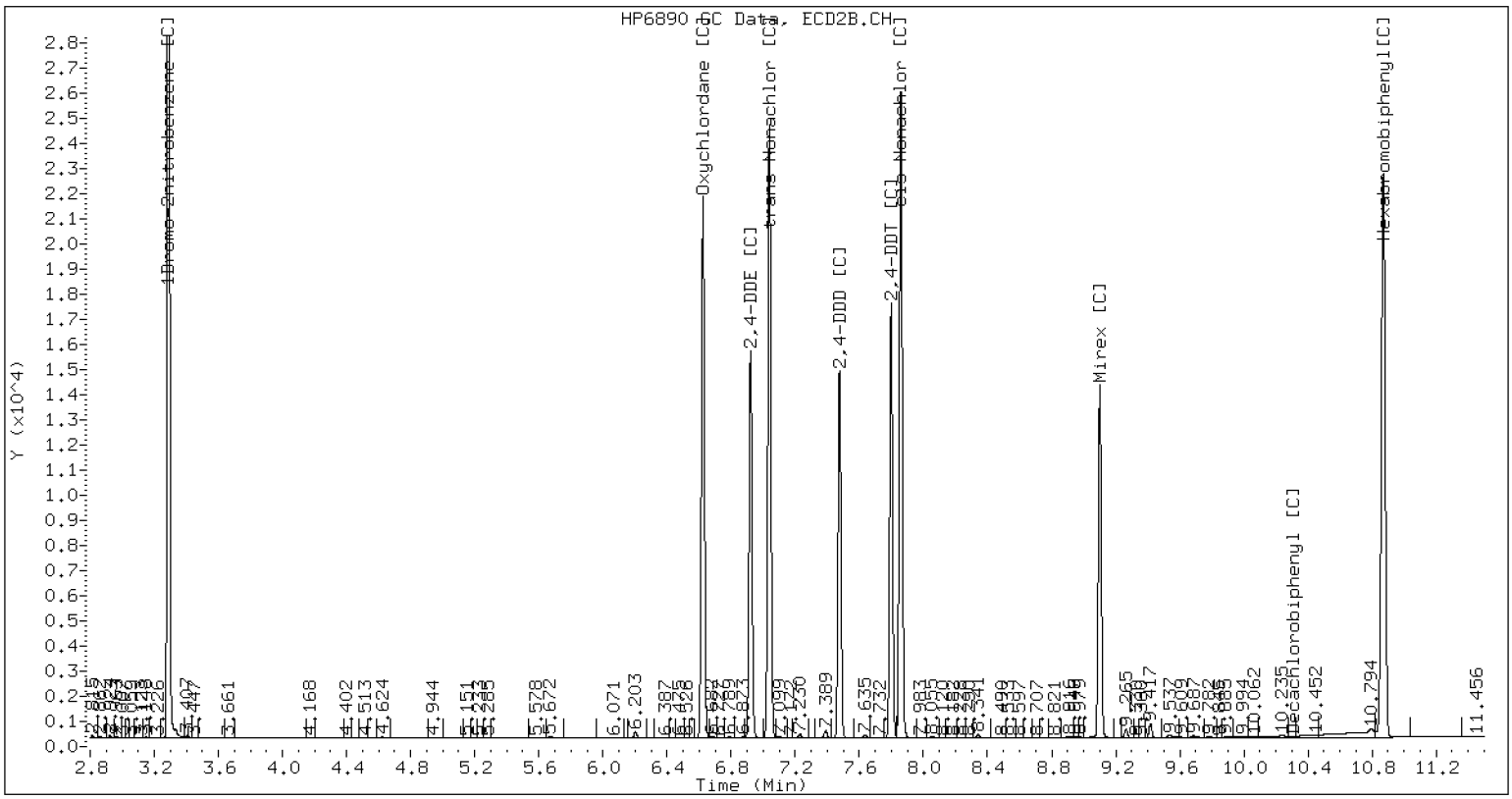
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1237559	-16.4
Hexabromobiphenyl	870561	757937	-12.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

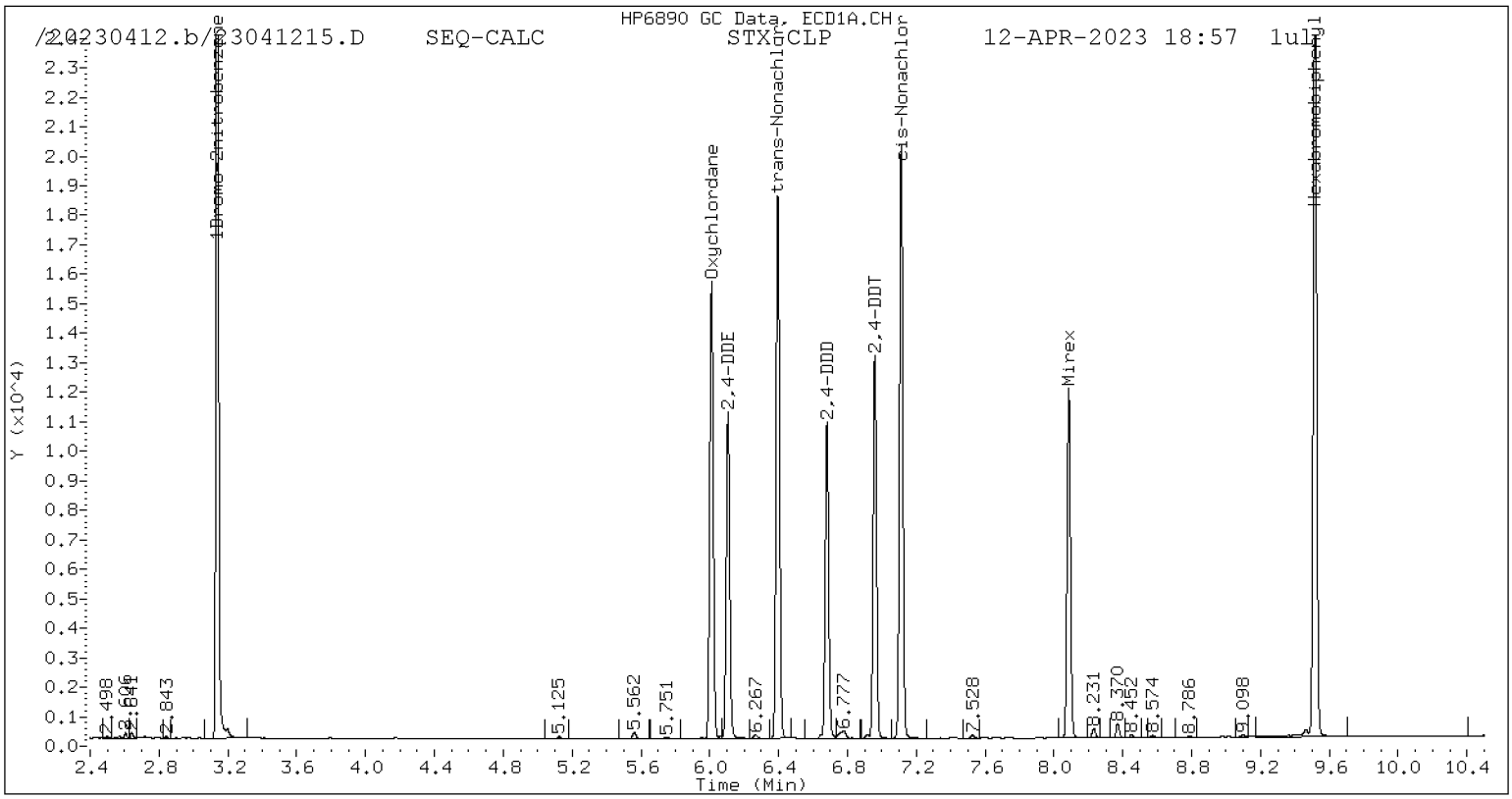
/20230412.b/23041215.D SEQ-CALC STX-CLP 12-APR-2023 18:57 1ul



/20230412.b/B20230412.b/23041215.D SEQ-CALC CLP2 12-APR-2023 18:57 1ul

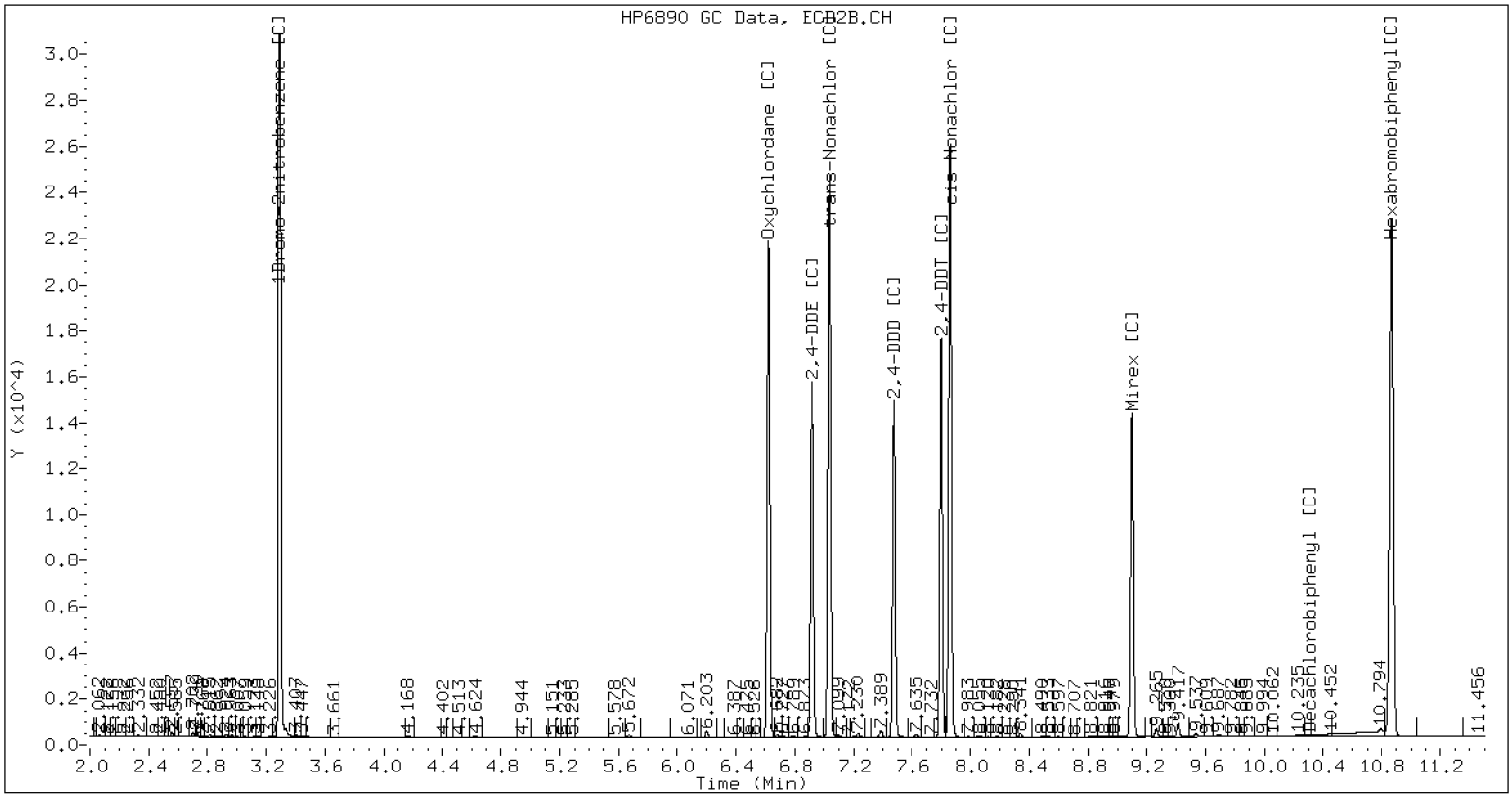


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041215.D SEQ-CALC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041216.D
Data file 2: /20230412.b/B20230412.b/23041216.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 12-APR-2023 19:15
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.010	0.000	817171	6.624	-0.000	1054911	72.77	74.15	1.9	Oxychlordane
6.106	0.001	580973	6.921	-0.000	743589	71.50	71.54	0.1	2,4-DDE
6.395	0.001	968759	7.039	-0.001	1211298	73.58	76.18	3.5	trans-Nonachlor
6.681	-0.000	548708	7.476	-0.001	698482	72.54	73.85	1.8	2,4-DDD
6.958	-0.000	660572	7.798	-0.001	805720	72.32	74.50	3.0	2,4-DDT
7.112	-0.000	1017099	7.858	-0.001	1256322	74.28	76.41	2.8	cis-Nonachlor
8.086	0.000	616577	9.101	0.000	697240	72.01	73.47	2.0	Mirex
----			4.135	-0.001	186	0.00	0.01	---	Tetrachloro-m-xylene
----			10.309	0.003	3002	0.00	0.33	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

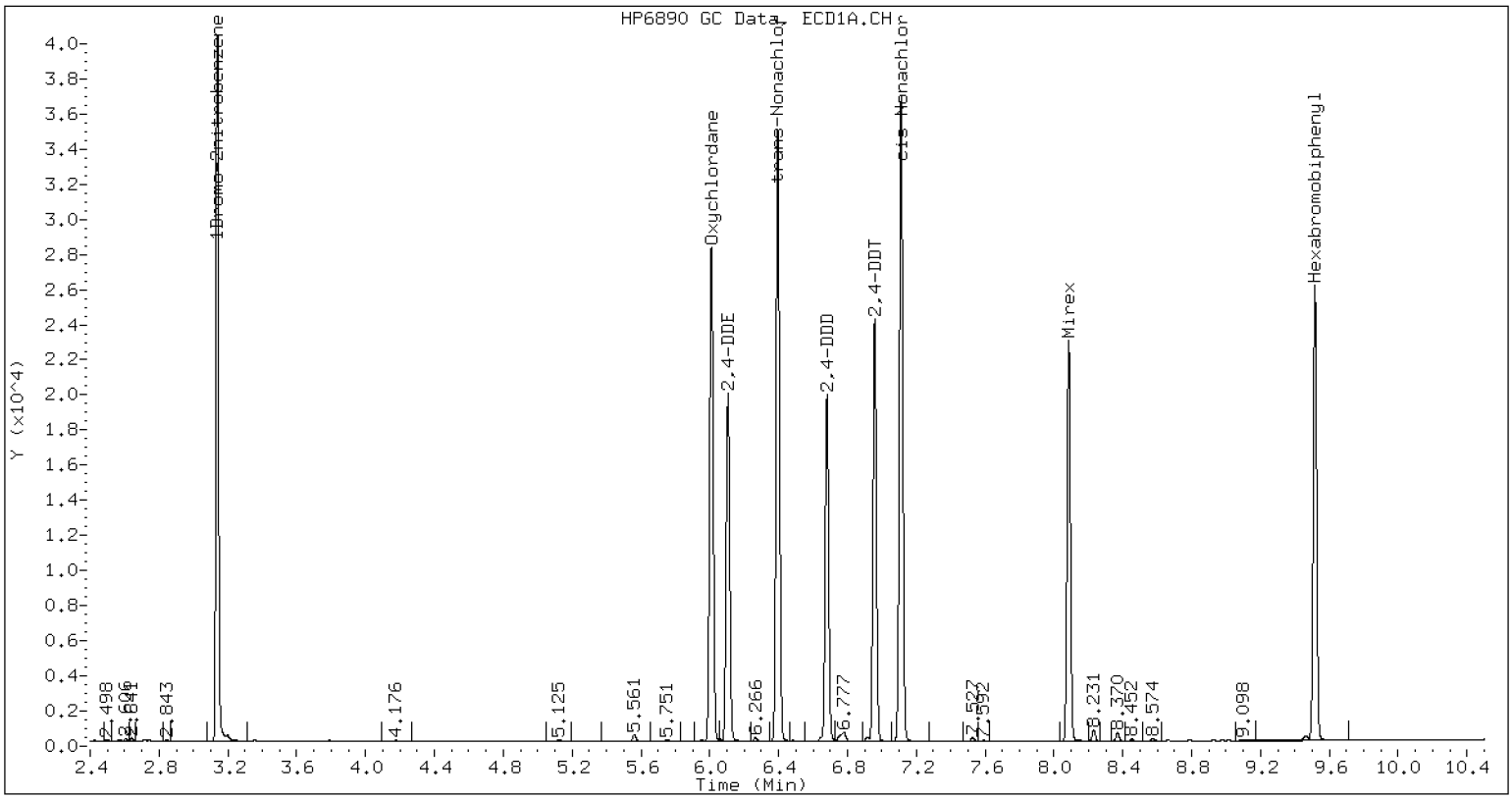
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	901377	4.3
Hexabromobiphenyl	663237	728475	9.8

Column 2

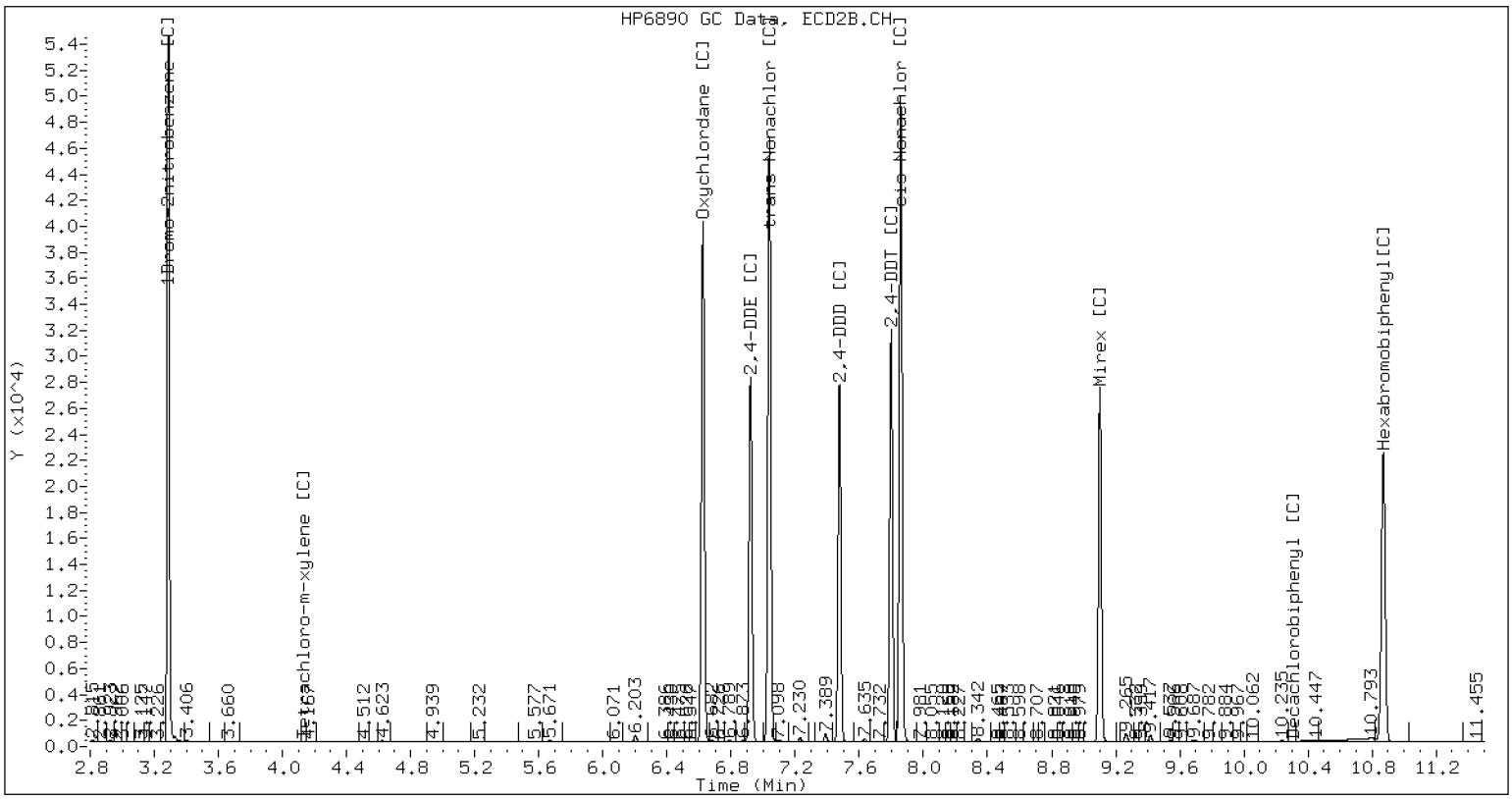
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1244306	-16.0
Hexabromobiphenyl	870561	755238	-13.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

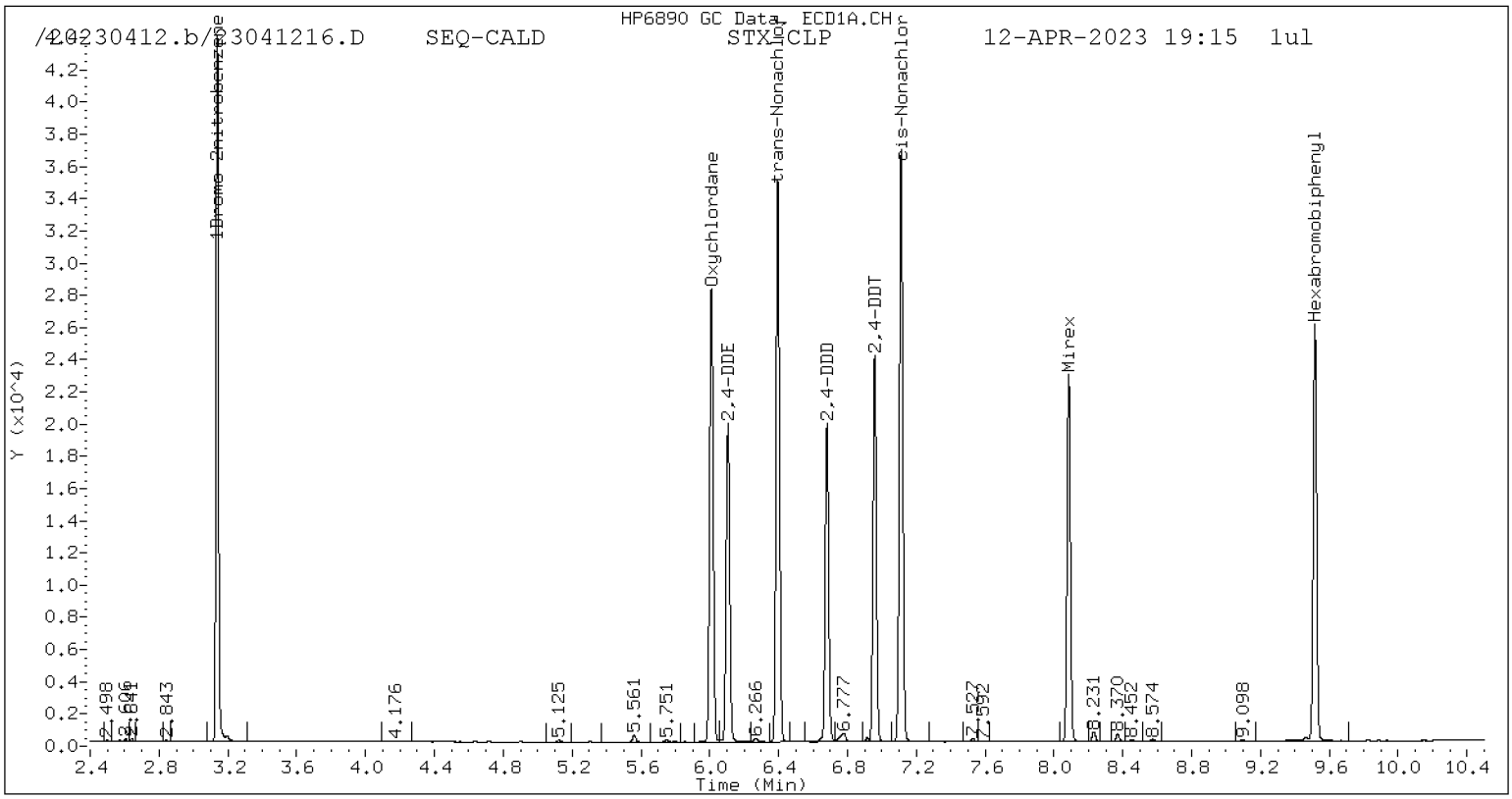
/20230412.b/23041216.D SEQ-CALD STX-CLP 12-APR-2023 19:15 1ul



/20230412.b/B20230412.b/23041216.D SEQ-CALD CLP2 12-APR-2023 19:15 1ul

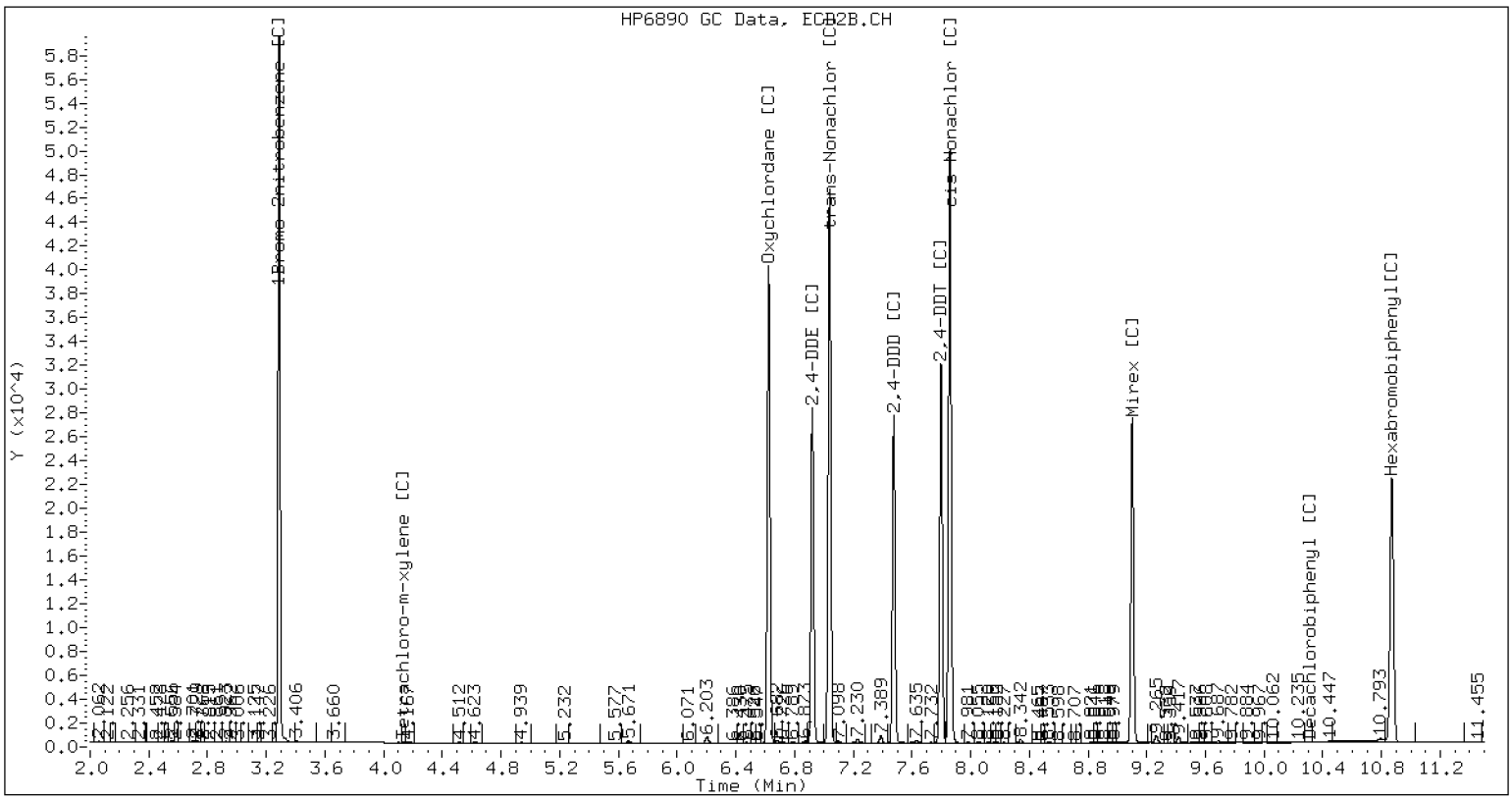


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041216.D SEQ-CALD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041217.D
Data file 2: /20230412.b/B20230412.b/23041217.D
Method: \20230412.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 12-APR-2023 19:34
Report Date: 04/14/2023 09:40
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.009	0.000	1520737	6.624	-0.000	1976637	132.87	137.37	3.3	Oxychlordane M
6.105	-0.000	1051945	6.921	-0.000	1344143	127.02	127.86	0.7	2,4-DDE M
6.395	0.000	1828376	7.039	-0.000	2280597	136.25	139.01	2.0	trans-Nonachlor M
6.681	0.000	1007071	7.477	-0.000	1318871	130.63	135.15	3.4	2,4-DDD M
6.959	0.000	1216718	7.799	-0.000	1510661	130.69	135.39	3.5	2,4-DDT M
7.112	0.000	1924725	7.859	0.000	2389114	137.91	140.84	2.1	cis-Nonachlor M
8.086	0.000	1166143	9.101	0.000	1359594	133.61	138.86	3.9	Mirex M
----			4.136	0.000	307	0.00	0.02	---	Tetrachloro-m-xylene
----			10.308	0.002	3667	0.00	0.39	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

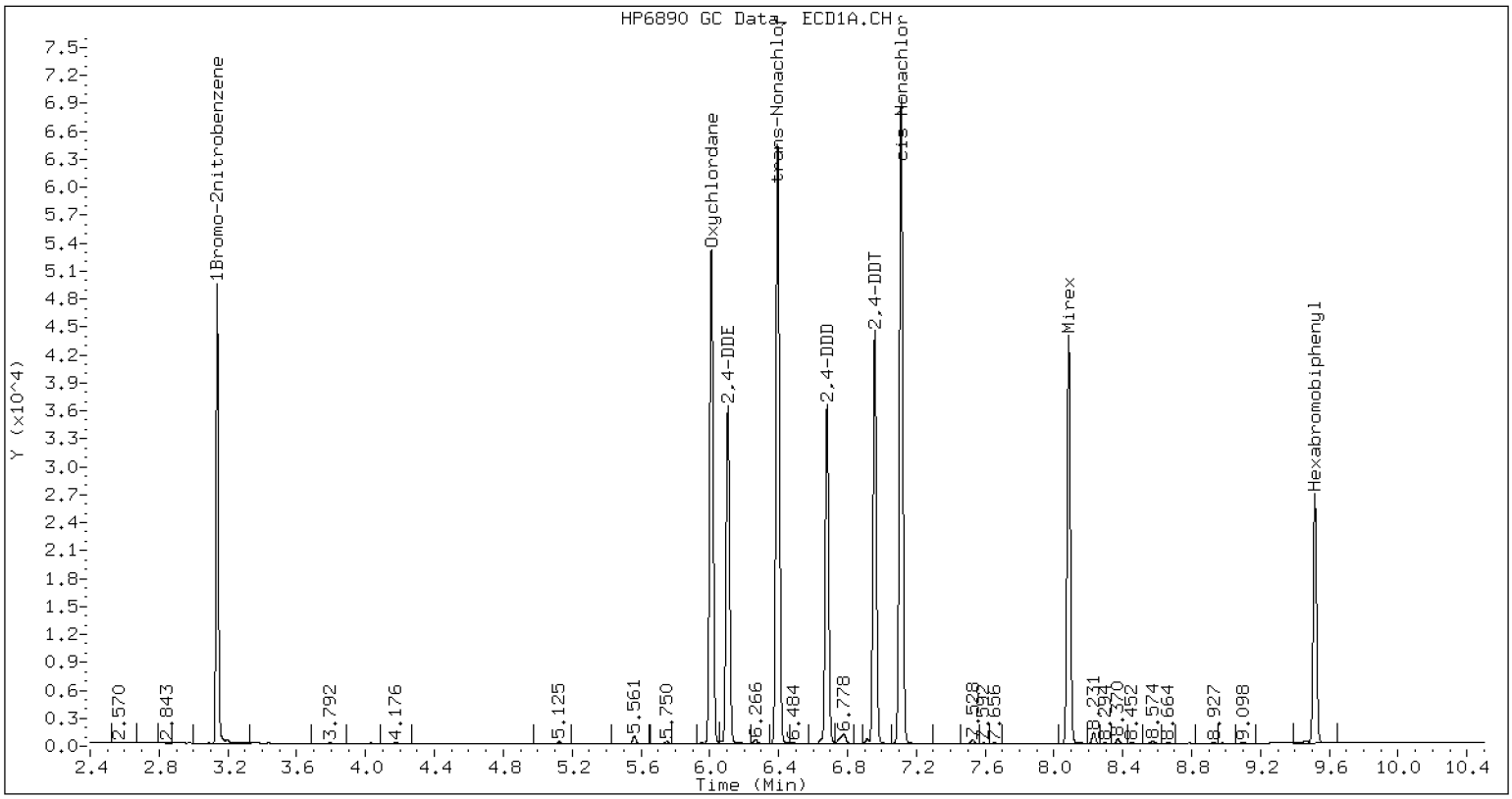
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	923493	6.8
Hexabromobiphenyl	663237	742507	12.0

Column 2

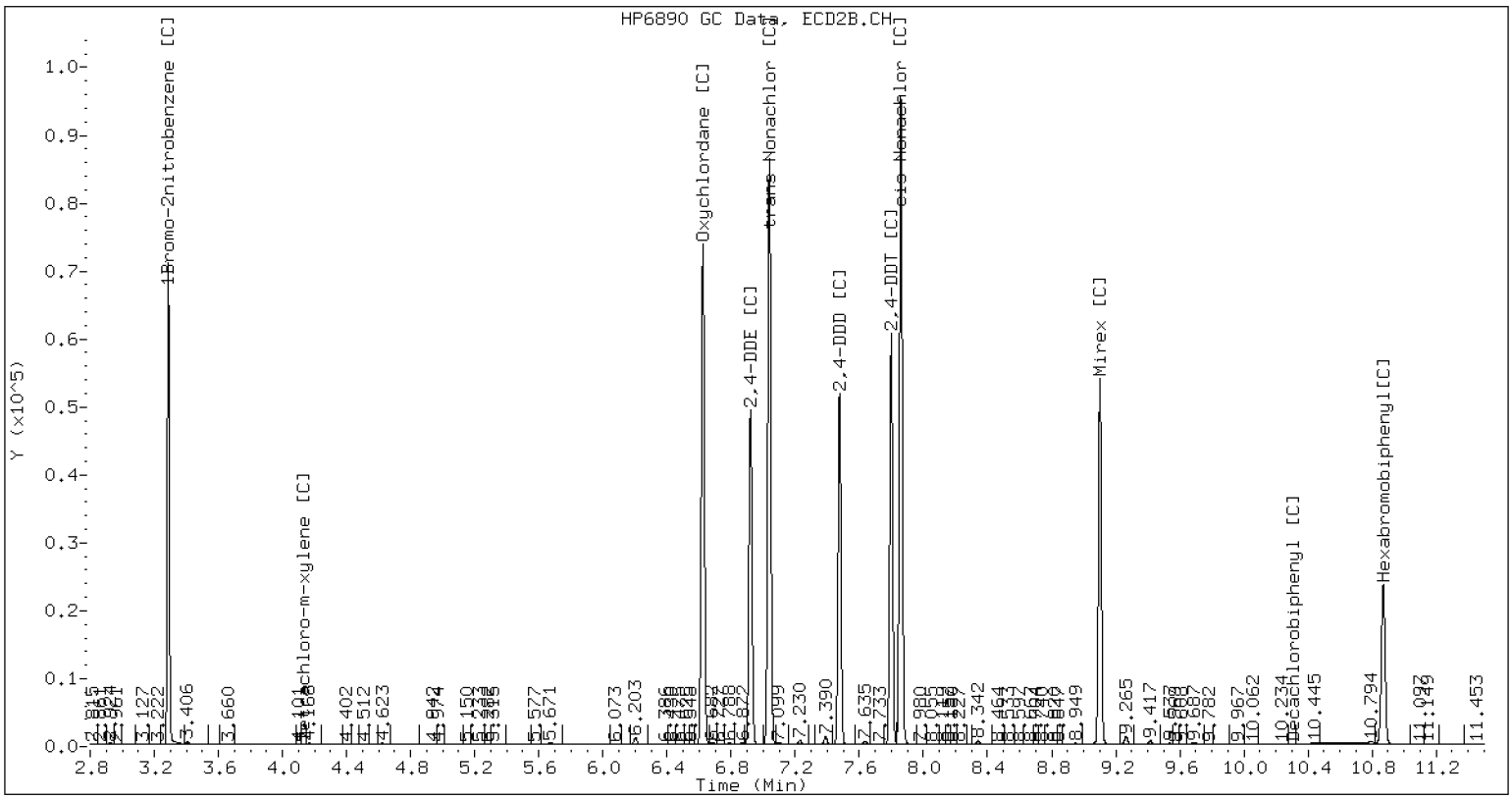
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1258546	-15.0
Hexabromobiphenyl	870561	779225	-10.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

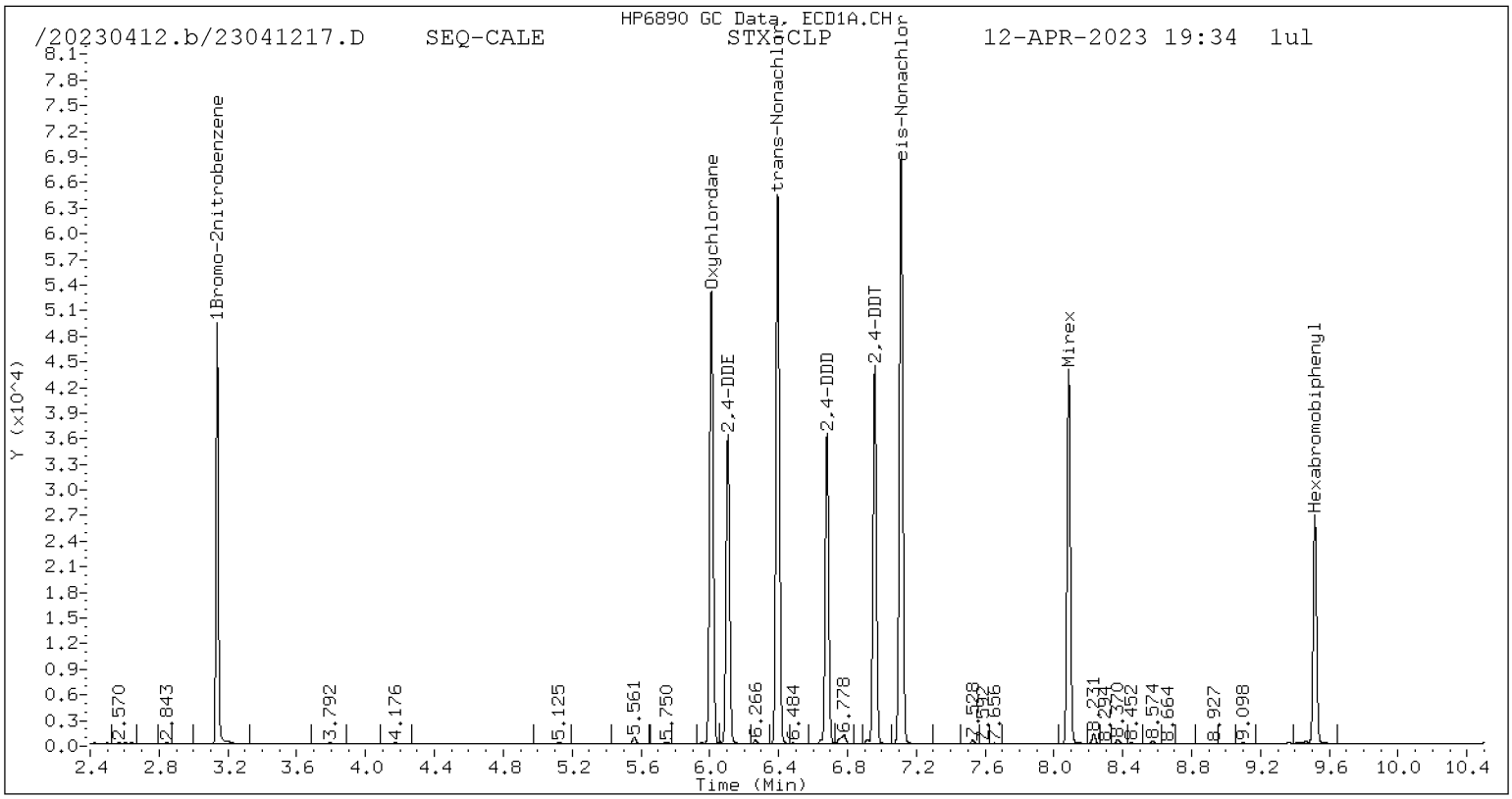
/20230412.b/23041217.D SEQ-CALE STX-CLP 12-APR-2023 19:34 1ul



/20230412.b/B20230412.b/23041217.D SEQ-CALE CLP2 12-APR-2023 19:34 1ul

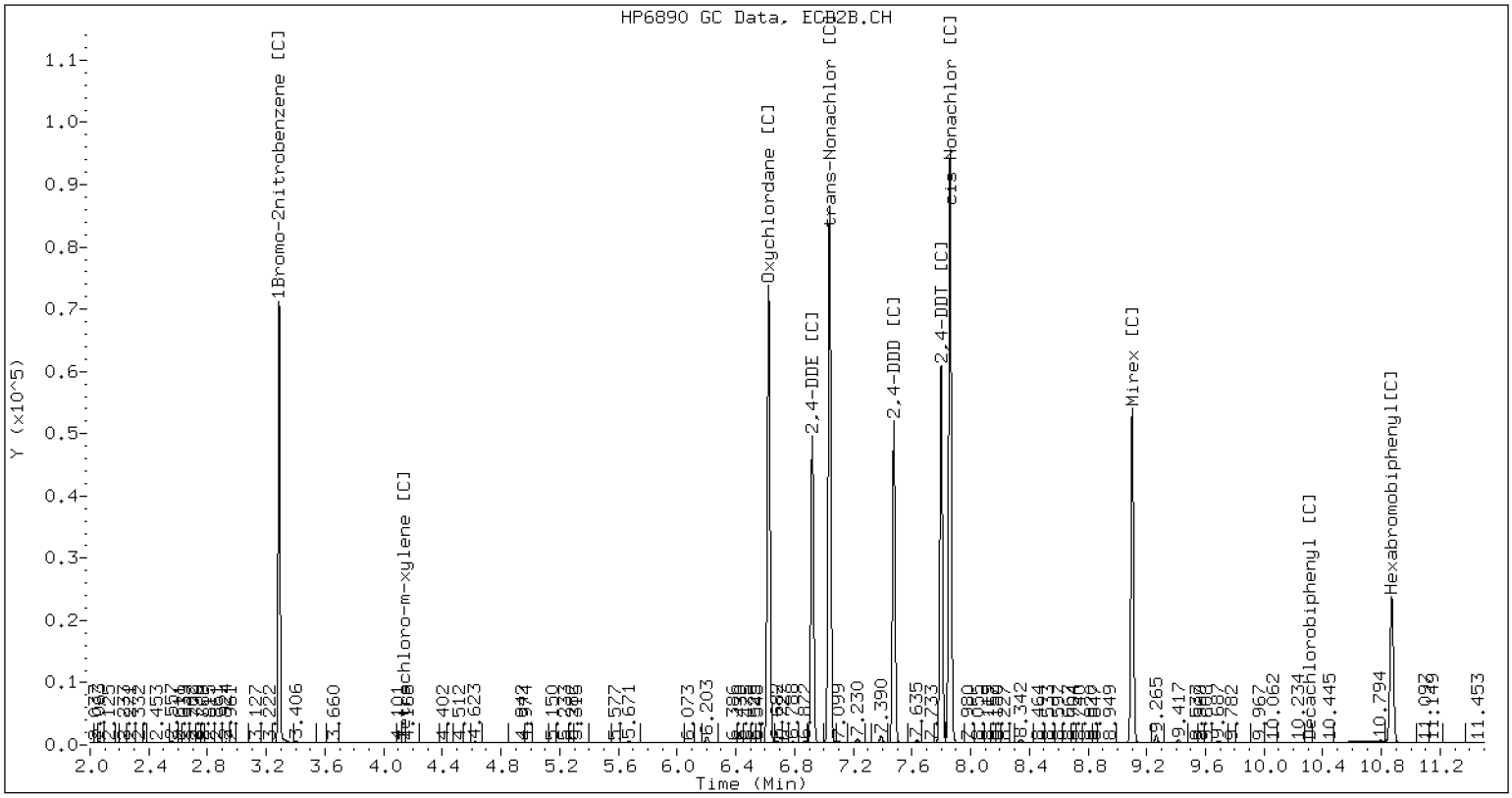


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

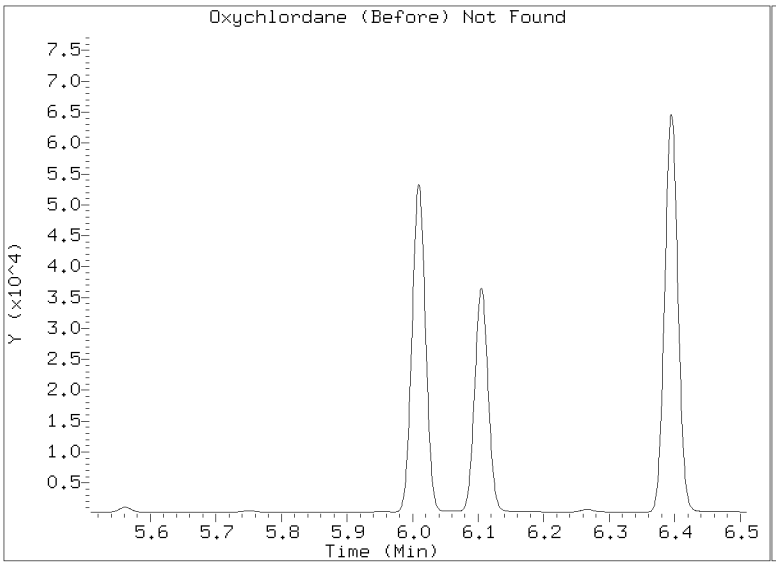
/20230412.b/B20230412.b/23041217.D SEQ-CALE CLP2

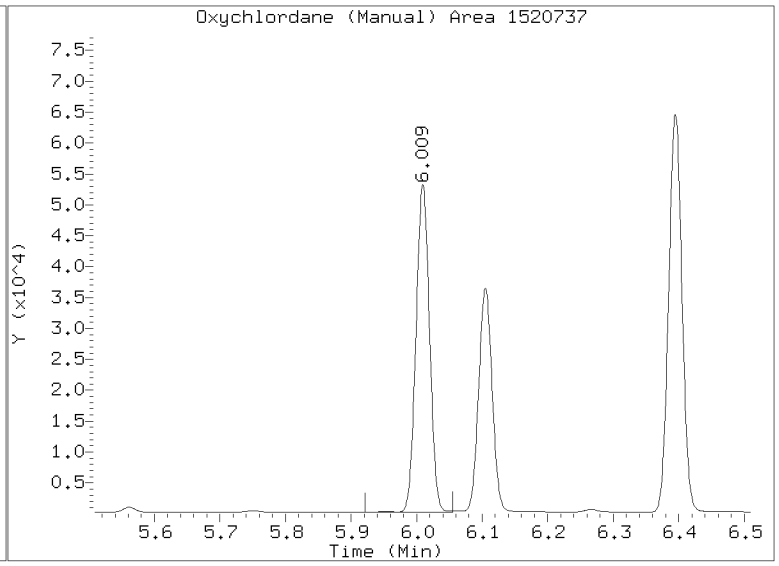


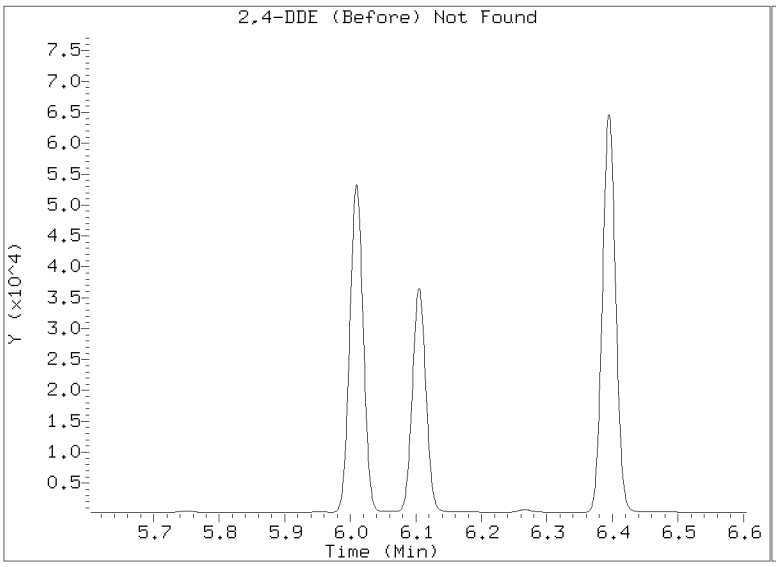
CLP-2 Manual Integration: NO

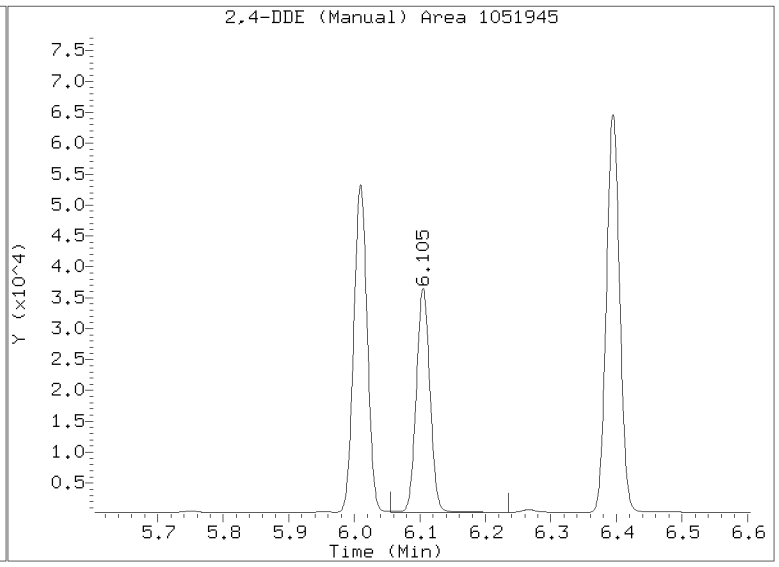
Manual Peak Adjustment Report, STX-CLP

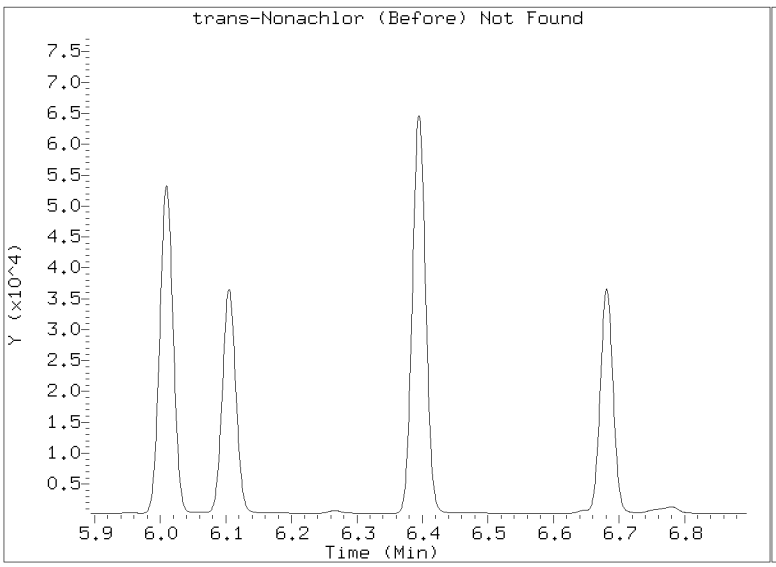
Datafile: /20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:
Report Date: 04/14/2023 09:40

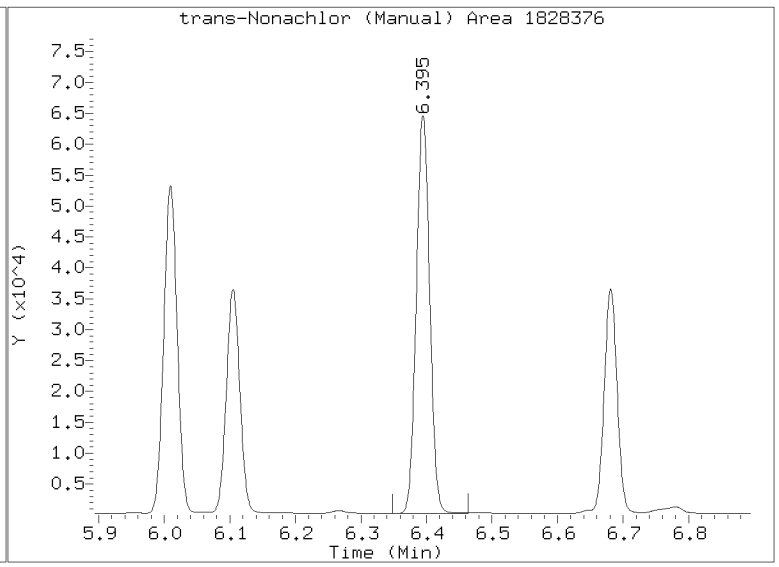






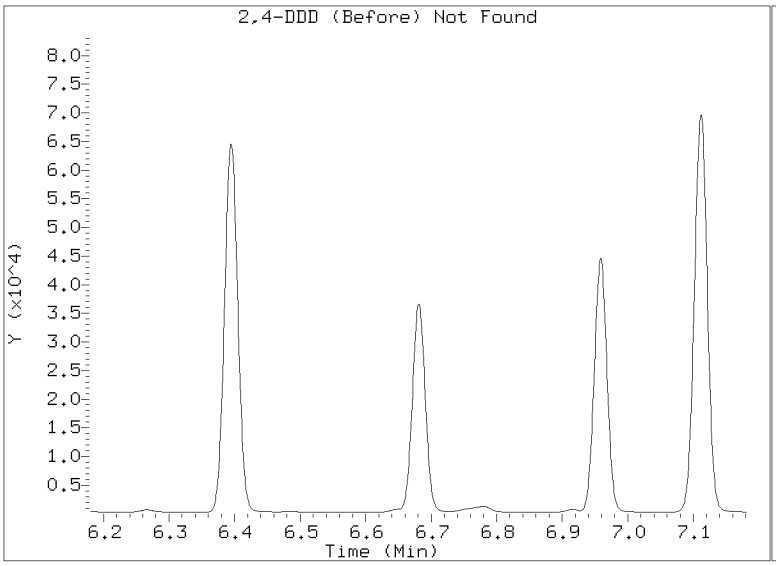


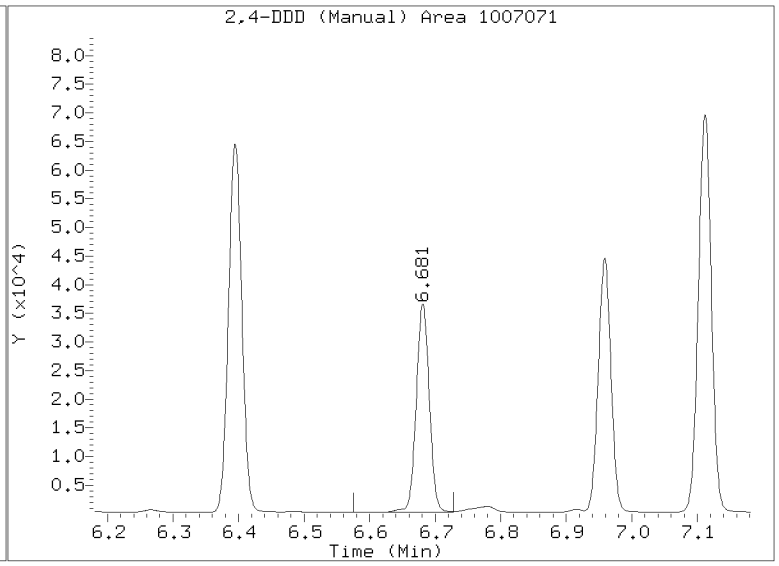


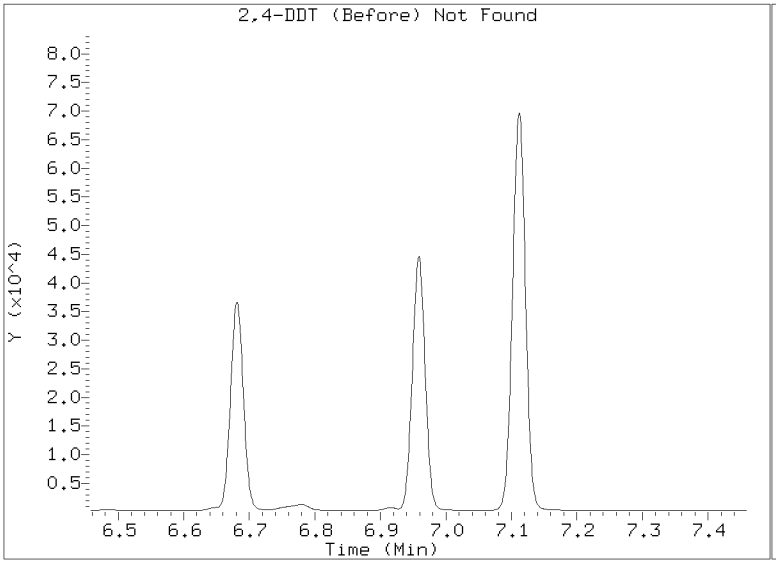


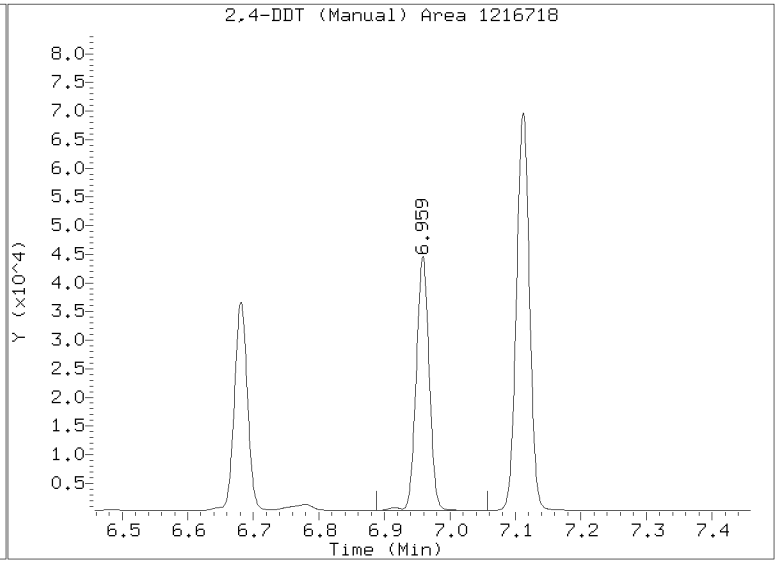
Manual Peak Adjustment Report, STX-CLP

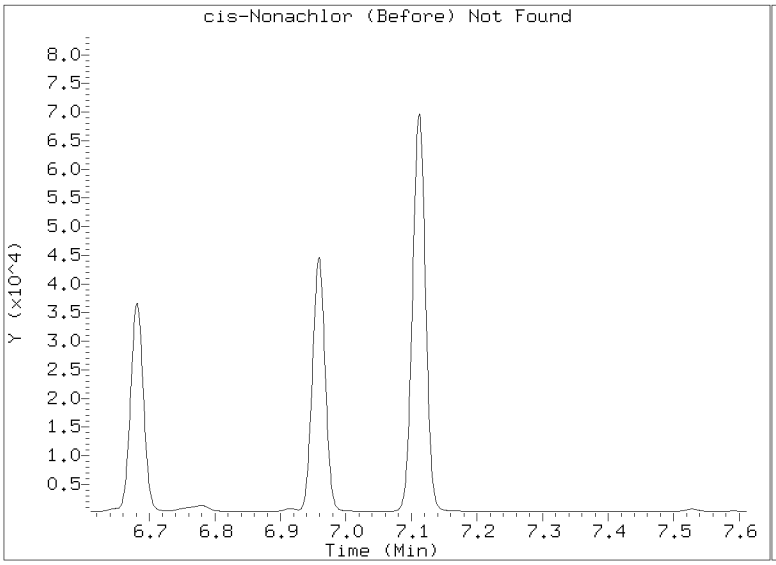
Datafile: /20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:
Report Date: 04/14/2023 09:40

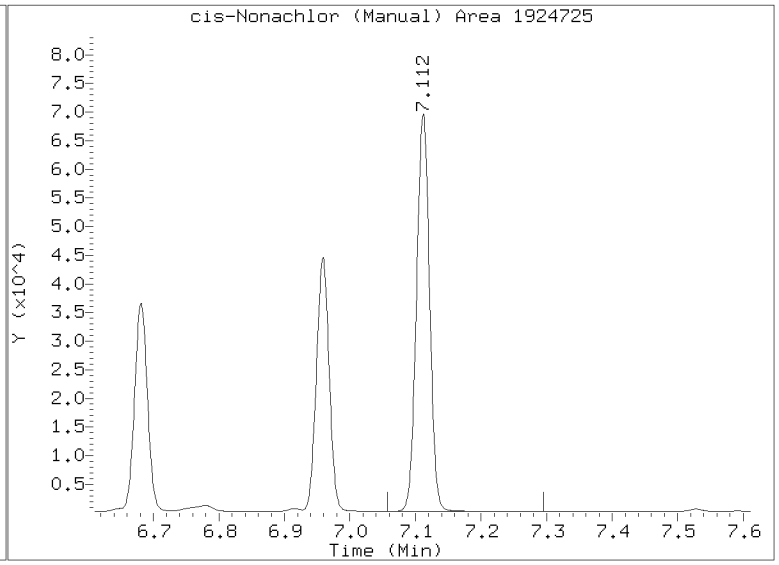






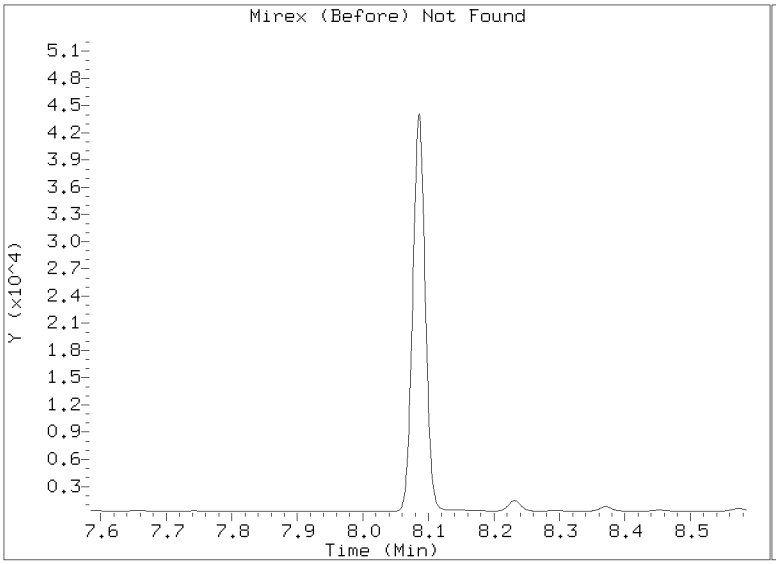


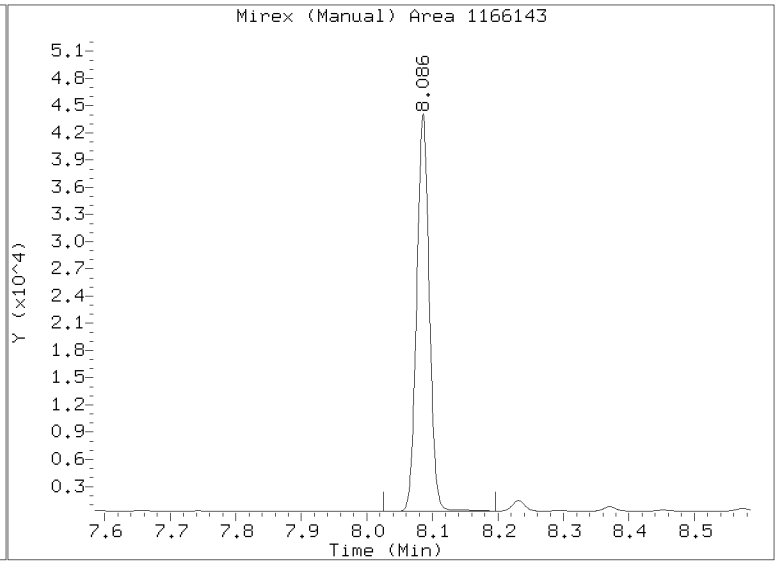




Manual Peak Adjustment Report, STX-CLP

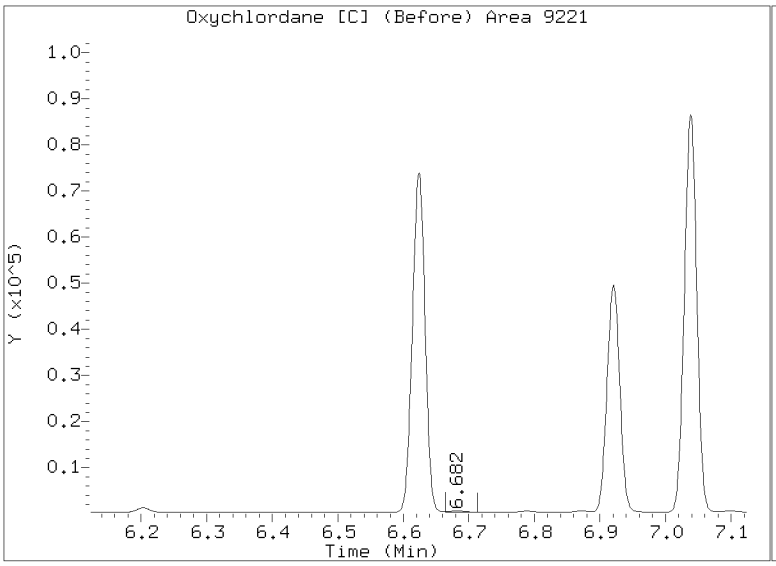
Datafile: /20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:
Report Date: 04/14/2023 09:40

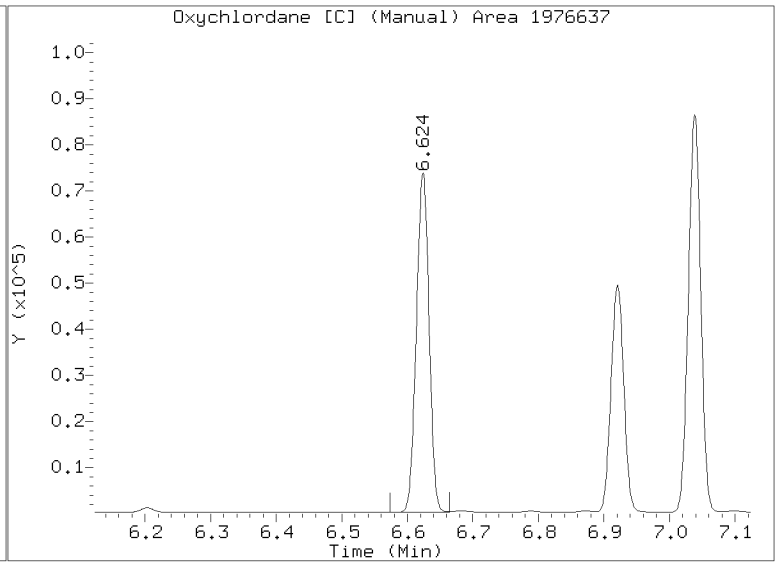


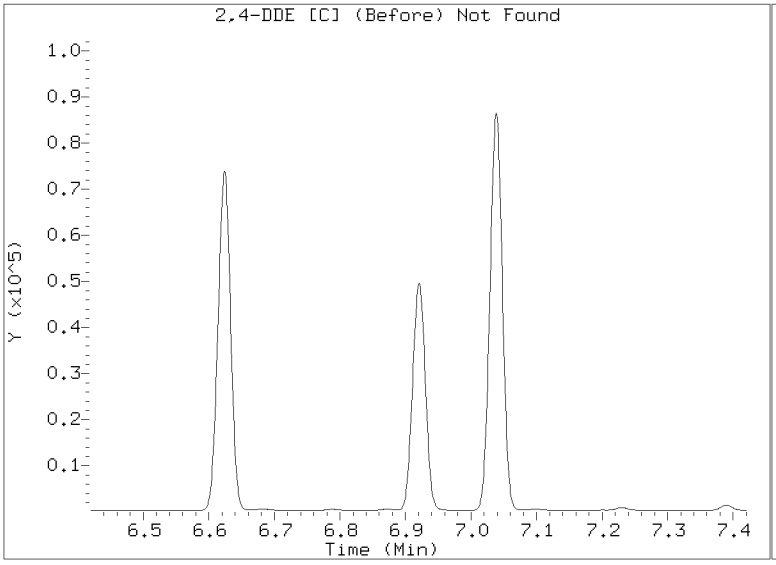


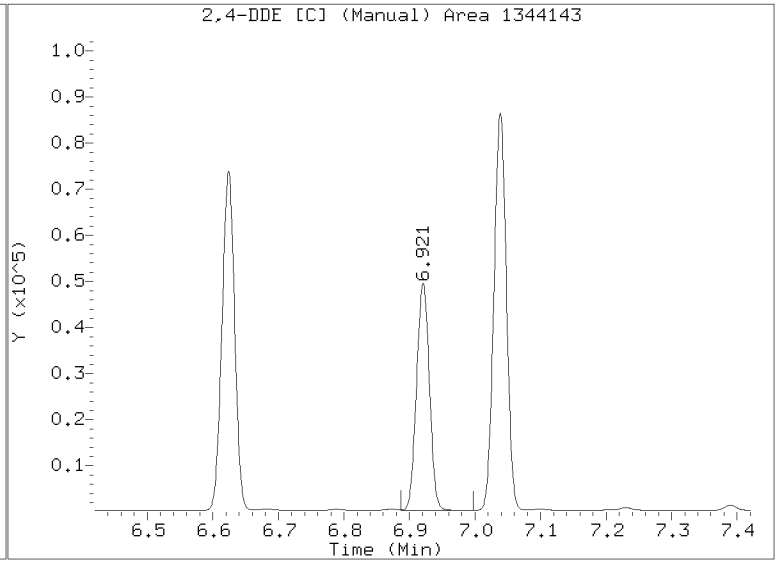
Manual Peak Adjustment Report, CLP-2

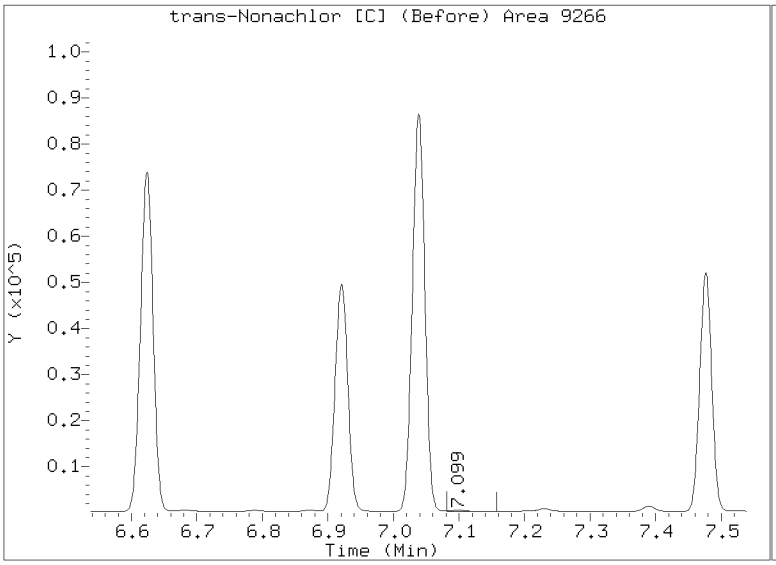
Datafile: /20230412.b/B20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:

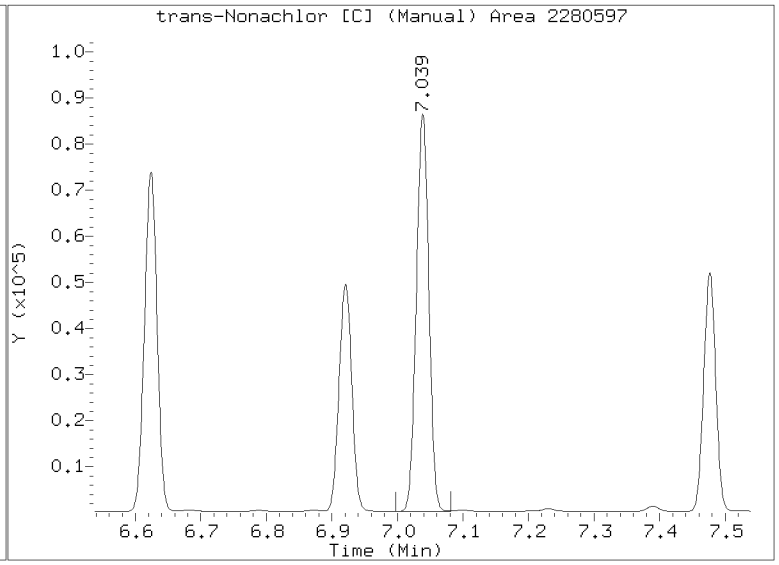






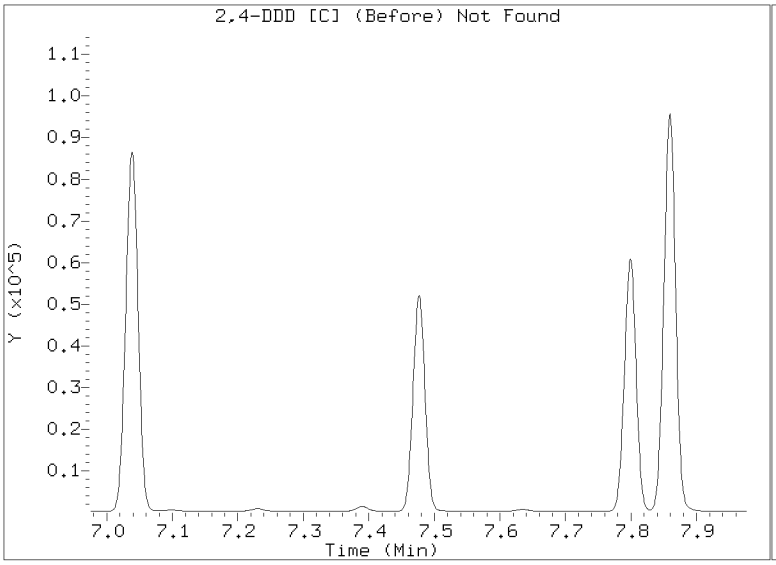


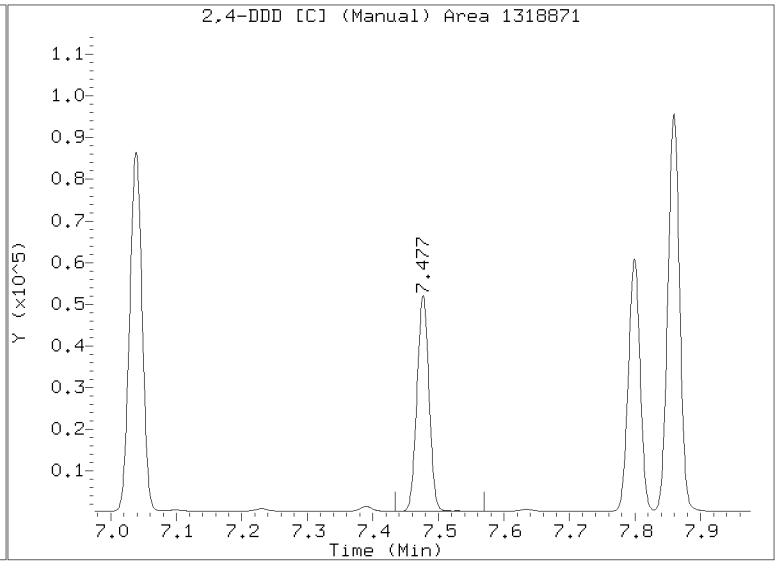


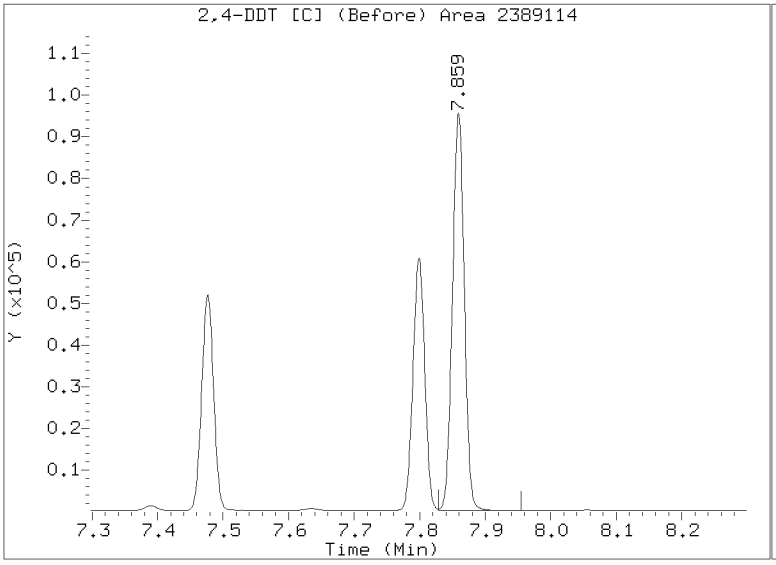


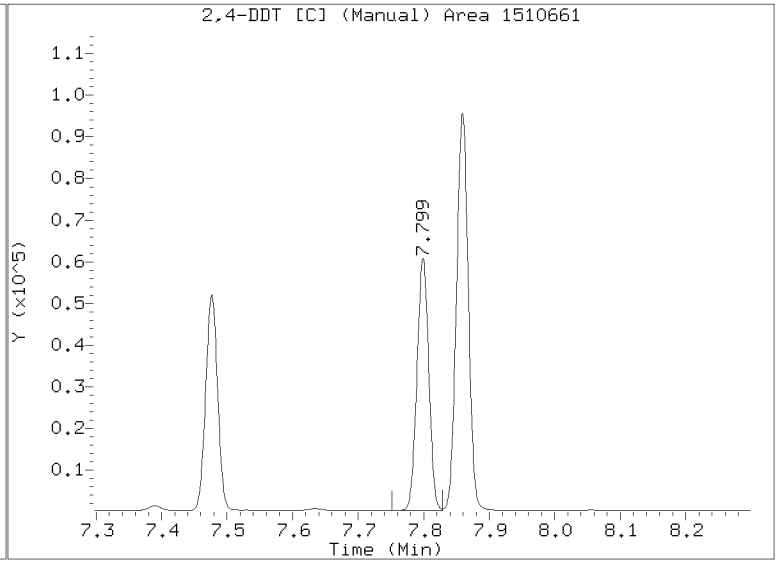
Manual Peak Adjustment Report, CLP-2

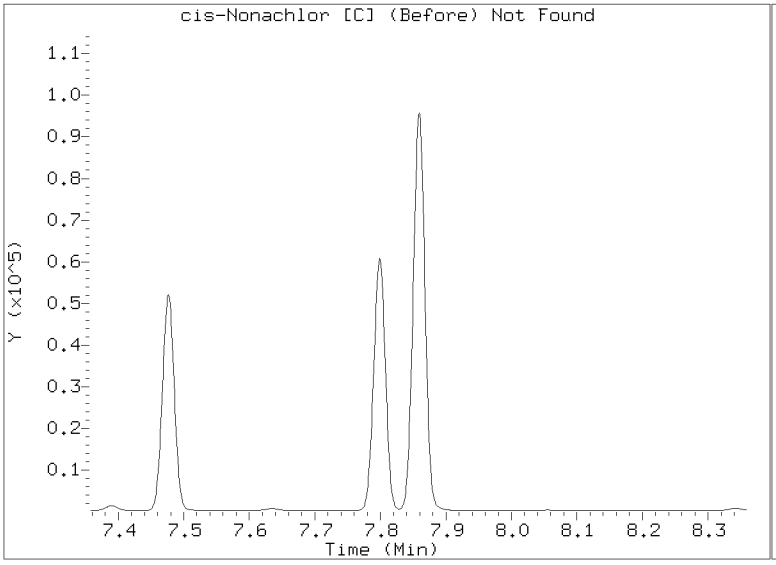
Datafile: /20230412.b/B20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:

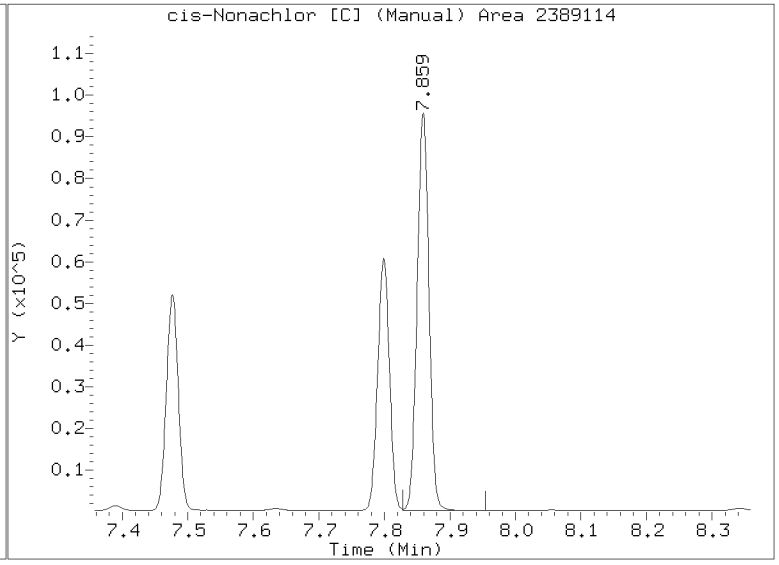






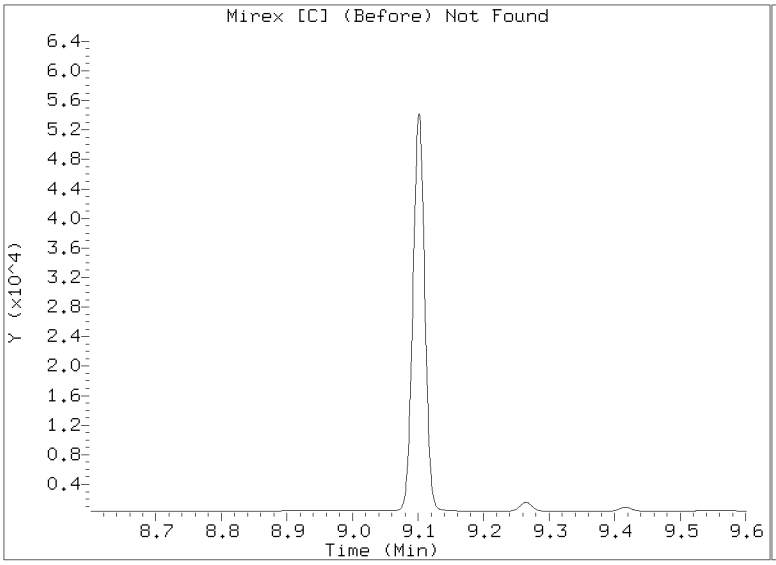


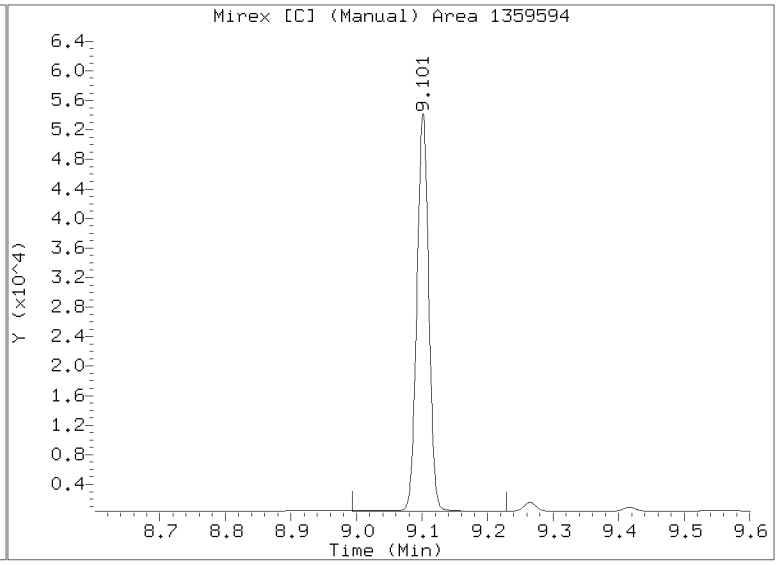




Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041217.D
Injection Date: 12-APR-2023 19:34
Lab ID:SEQ-CALE Client ID:





Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041218.D
Data file 2: /20230412.b/B20230412.b/23041218.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALF
Client ID:
Injection Date: 12-APR-2023 19:52
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.820	0.001	13904	4.136	0.000	18748	1.09	1.07	1.1	Tetrachloro-m-xylene
9.367	0.001	24477	10.306	-0.000	31773	2.82	3.41	19.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	914711	5.8
Hexabromobiphenyl	663237	736746	11.1

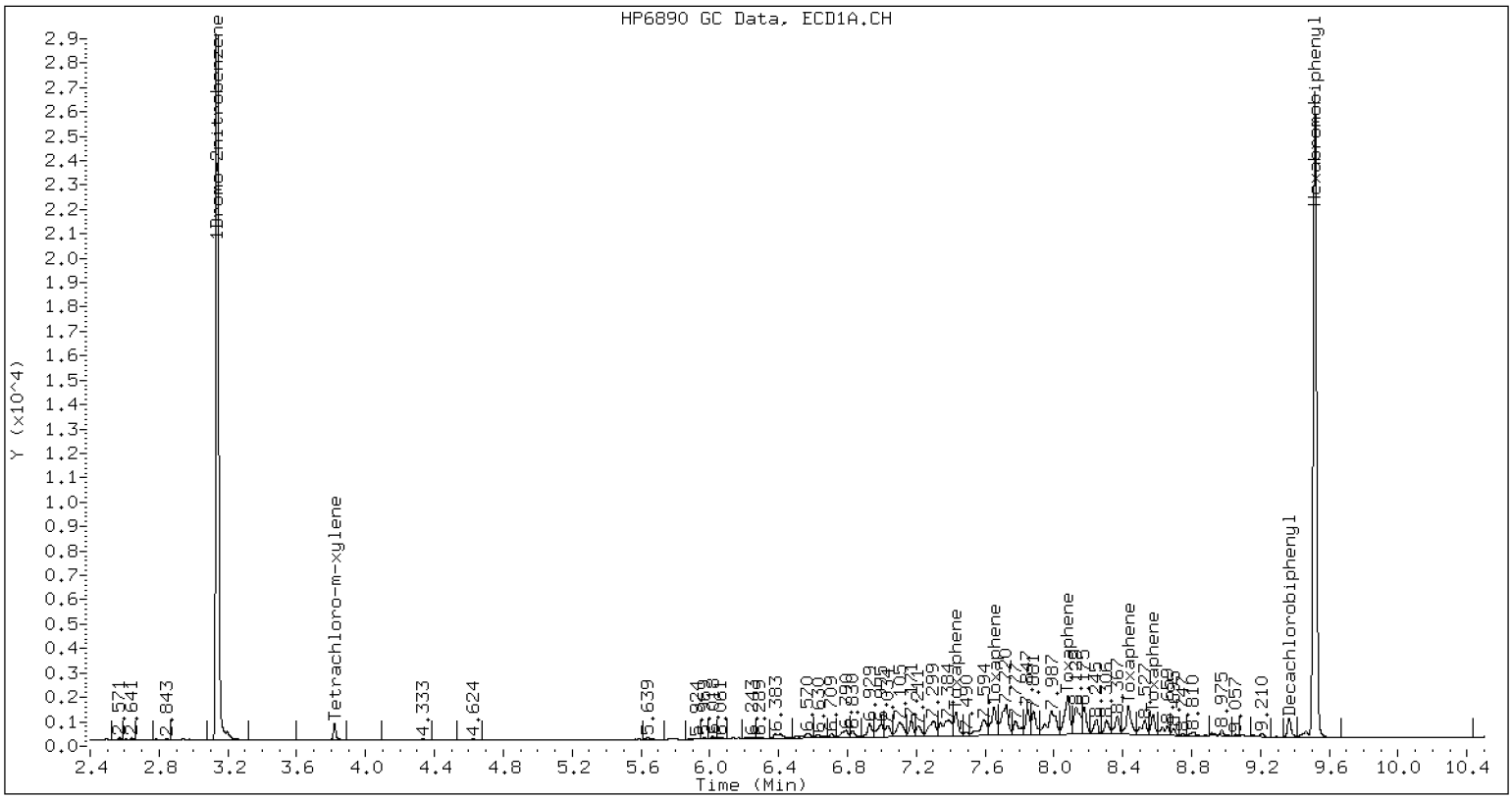
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1268733	-14.3
Hexabromobiphenyl	870561	770830	-11.5

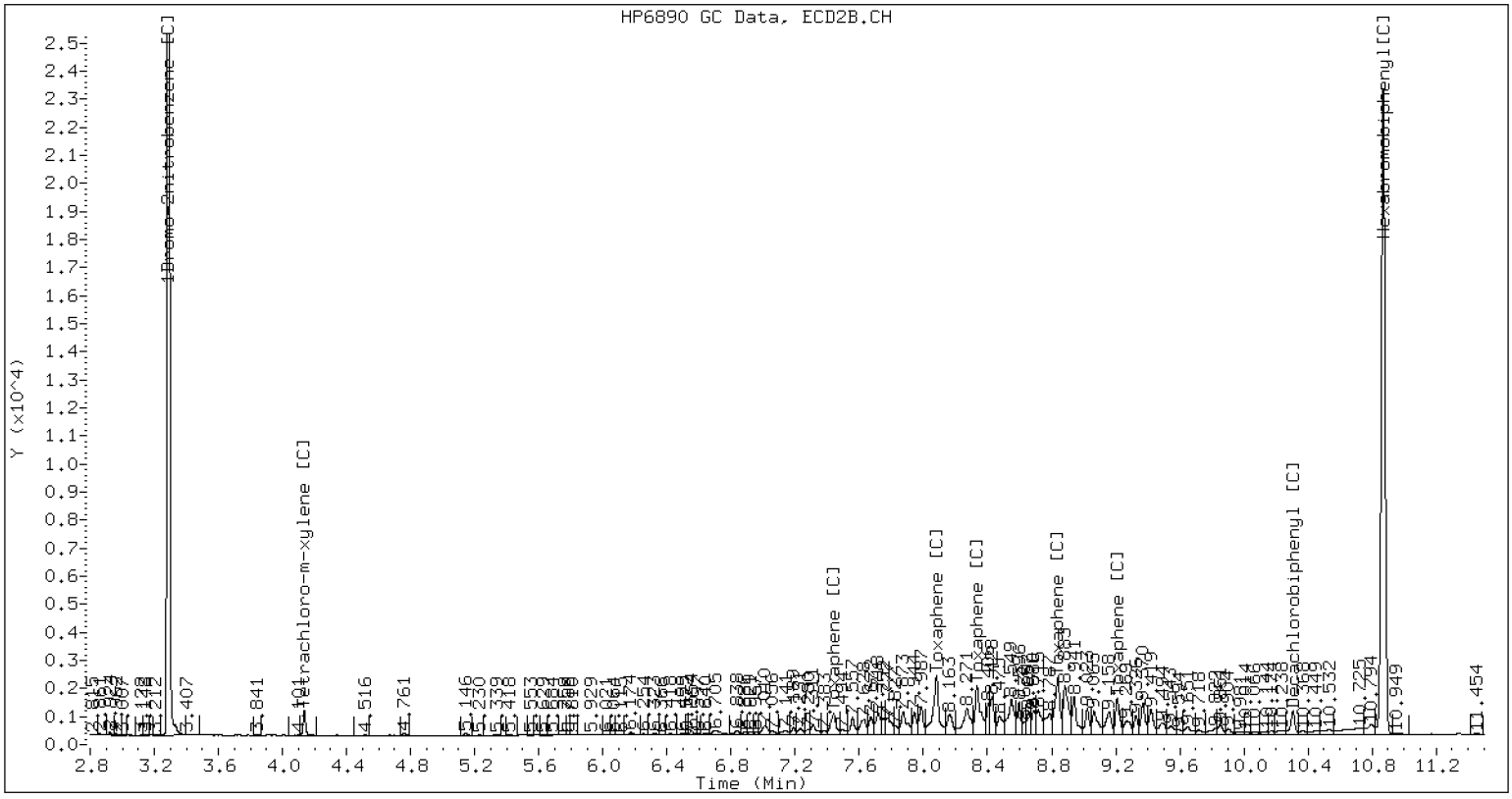
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	-0.000	34115	125.1	1	7.440	0.000	35652	143.7	
Toxaphene	2	7.652	-0.001	48770	133.6	2	8.082	-0.001	107411	146.6	
Toxaphene	3	8.080	0.000	67485	135.6	3	8.335	-0.001	81808	143.0	
Toxaphene	4	8.433	0.000	48028	122.4	4	8.838	-0.001	87639	142.7	
Toxaphene	5	8.575	-0.000	27697	117.3	5	9.209	-0.001	46750	139.0	
Total STX-CLPAve (5 peaks): 126.820						Total CLP2Ave (5 peaks): 142.998				RPD = 12	
Corrected Ave (5 peaks): 126.820						Corrected Ave (5 peaks): 142.998				RPD = 12	

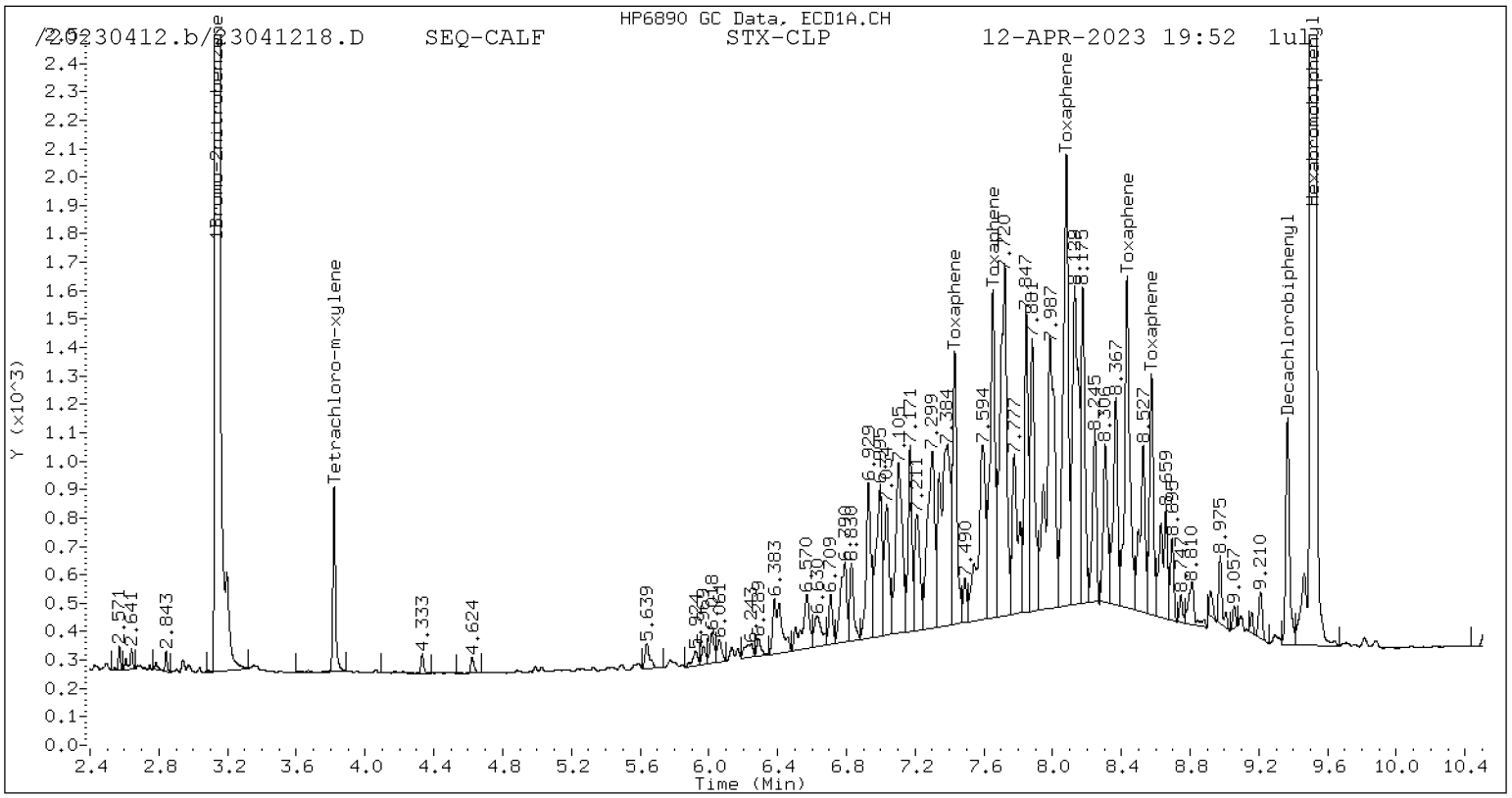
/20230412.b/23041218.D SEQ-CALF STX-CLP 12-APR-2023 19:52 1ul



/20230412.b/B20230412.b/23041218.D SEQ-CALF CLP2 12-APR-2023 19:52 1ul

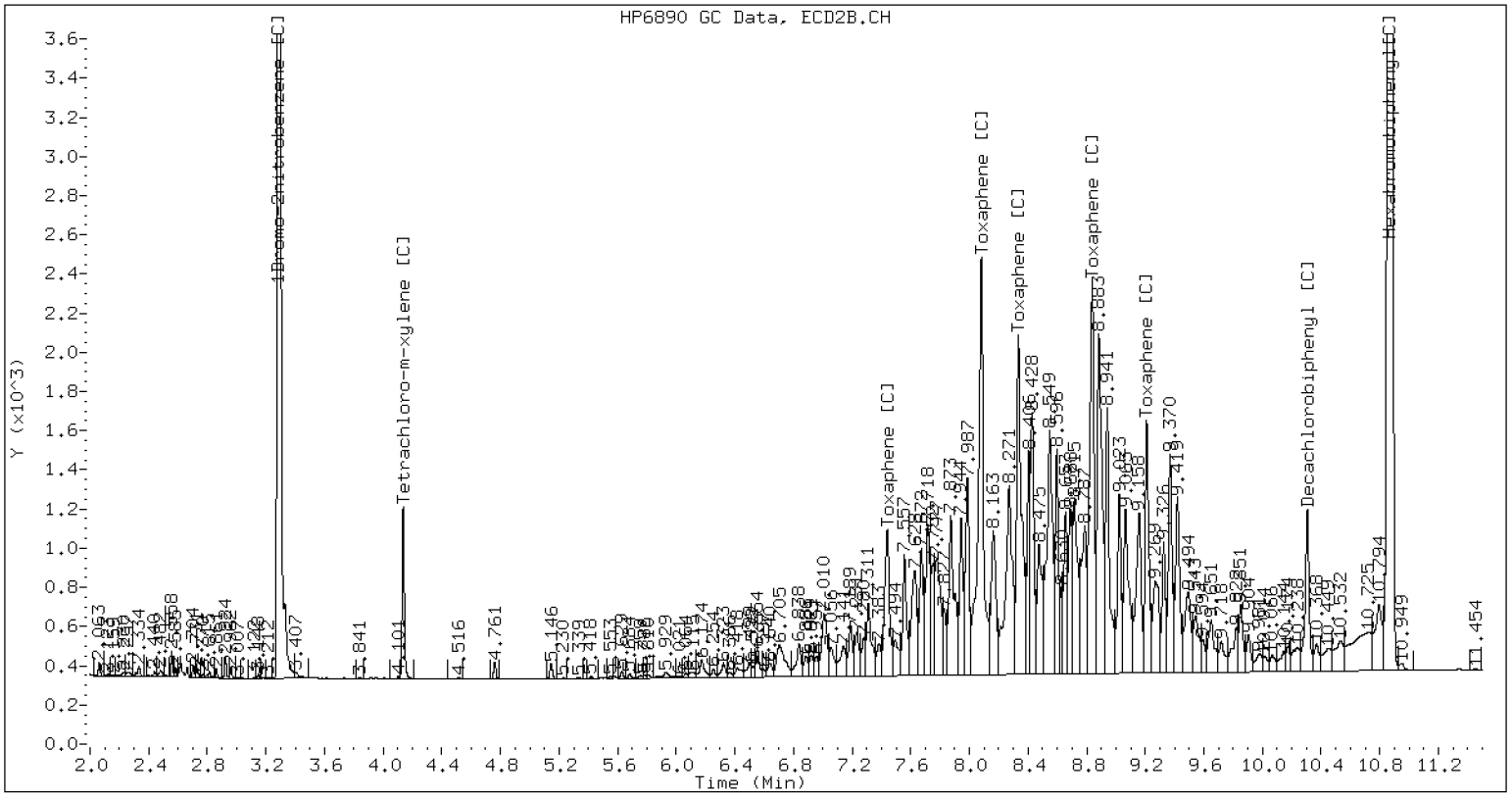


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041218.D SEQ-CALF CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041219.D
Data file 2: /20230412.b/B20230412.b/23041219.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALG
Client ID:
Injection Date: 12-APR-2023 20:10
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.820	0.001	27648	4.136	0.000	36736	2.17	2.11	2.6	Tetrachloro-m-xylene
9.367	0.001	43538	10.306	-0.000	56135	5.17	6.10	16.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	911122	5.4
Hexabromobiphenyl	663237	714377	7.7

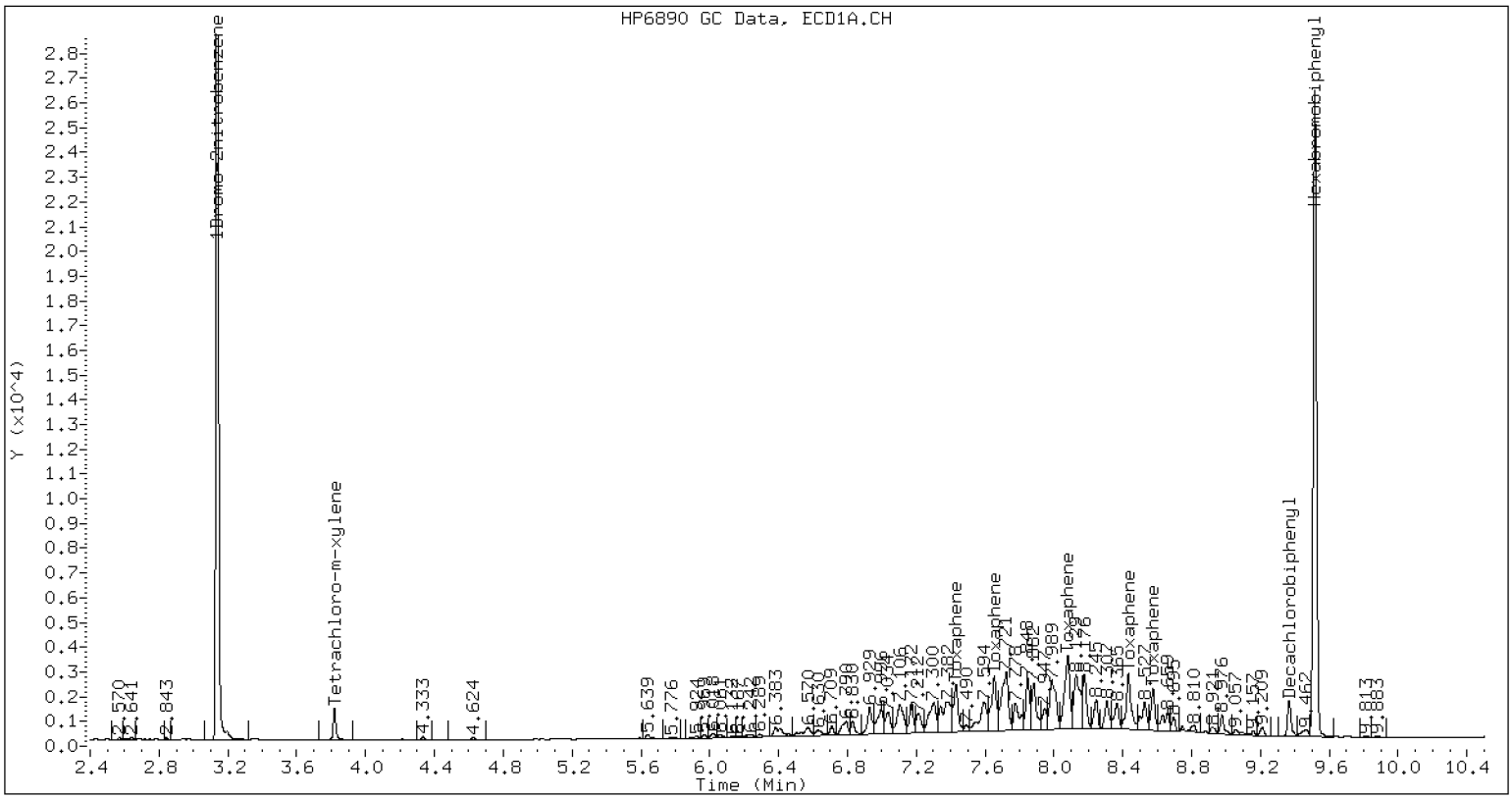
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1263997	-14.6
Hexabromobiphenyl	870561	762676	-12.4

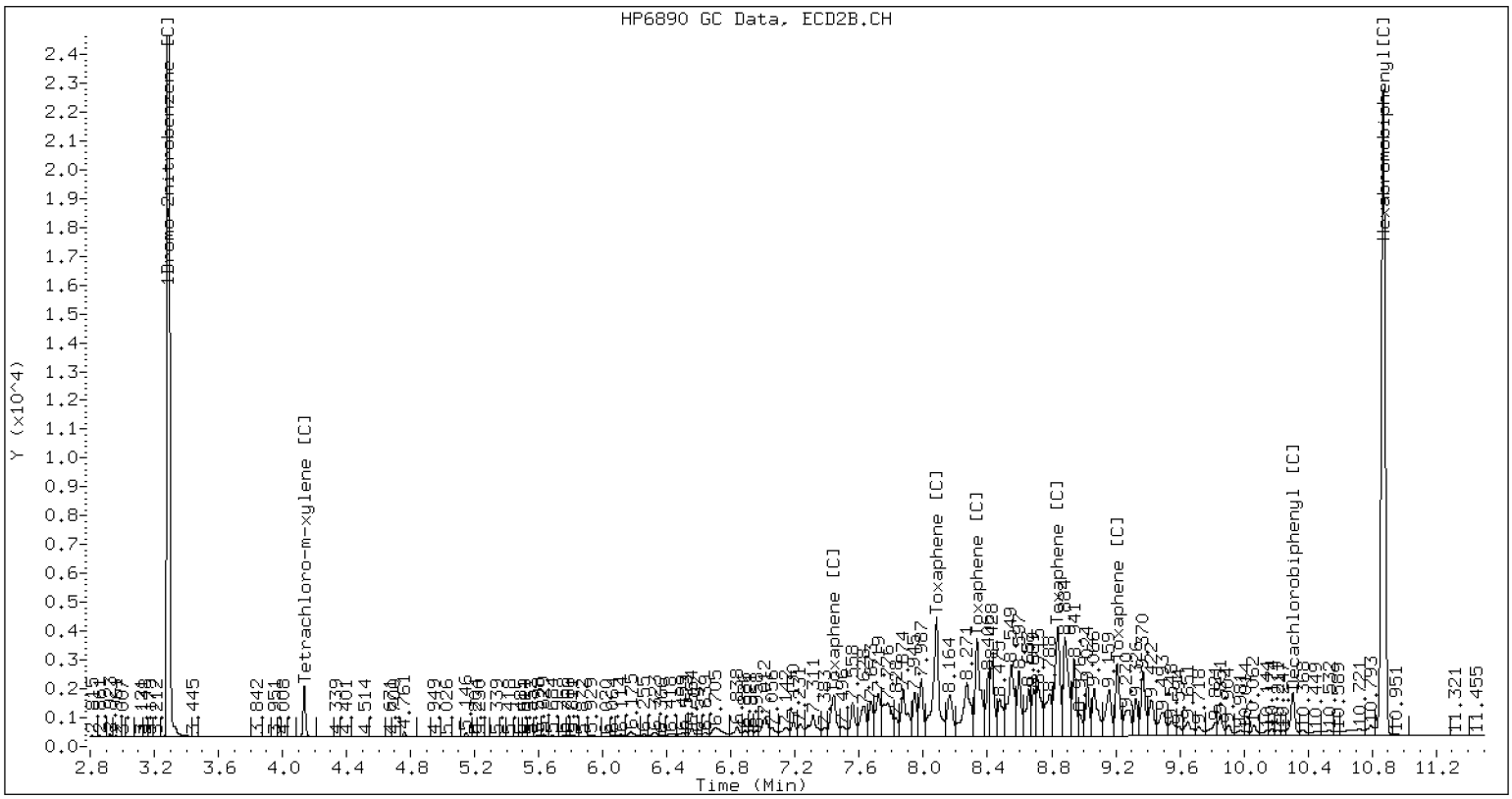
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	0.000	72029	272.5	1	7.440	0.000	69042	281.2	
Toxaphene	2	7.653	0.000	94737	267.7	2	8.082	-0.001	206105	284.4	
Toxaphene	3	8.079	0.000	129282	268.0	3	8.335	-0.001	158407	279.9	
Toxaphene	4	8.433	0.000	90301	237.4	4	8.838	-0.001	170052	279.8	
Toxaphene	5	8.575	0.000	53948	235.5	5	9.209	-0.001	91320	274.3	
Total STX-CLPAve (5 peaks): 256.226						Total CLP2Ave (5 peaks): 279.934				RPD = 9	
Corrected Ave (5 peaks): 256.226						Corrected Ave (5 peaks): 279.934				RPD = 9	

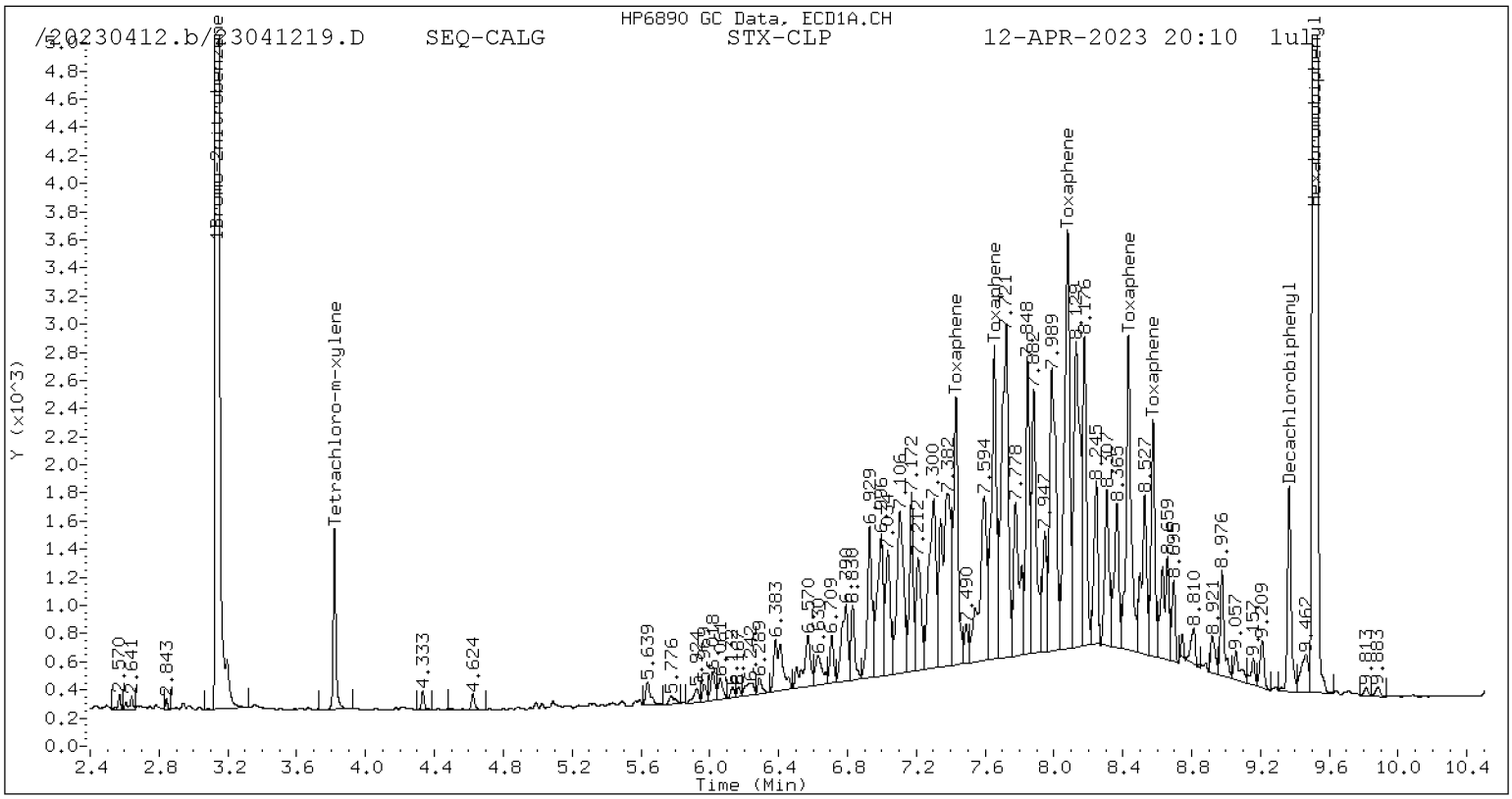
/20230412.b/23041219.D SEQ-CALG STX-CLP 12-APR-2023 20:10 1ul



/20230412.b/B20230412.b/23041219.D SEQ-CALG CLP2 12-APR-2023 20:10 1ul

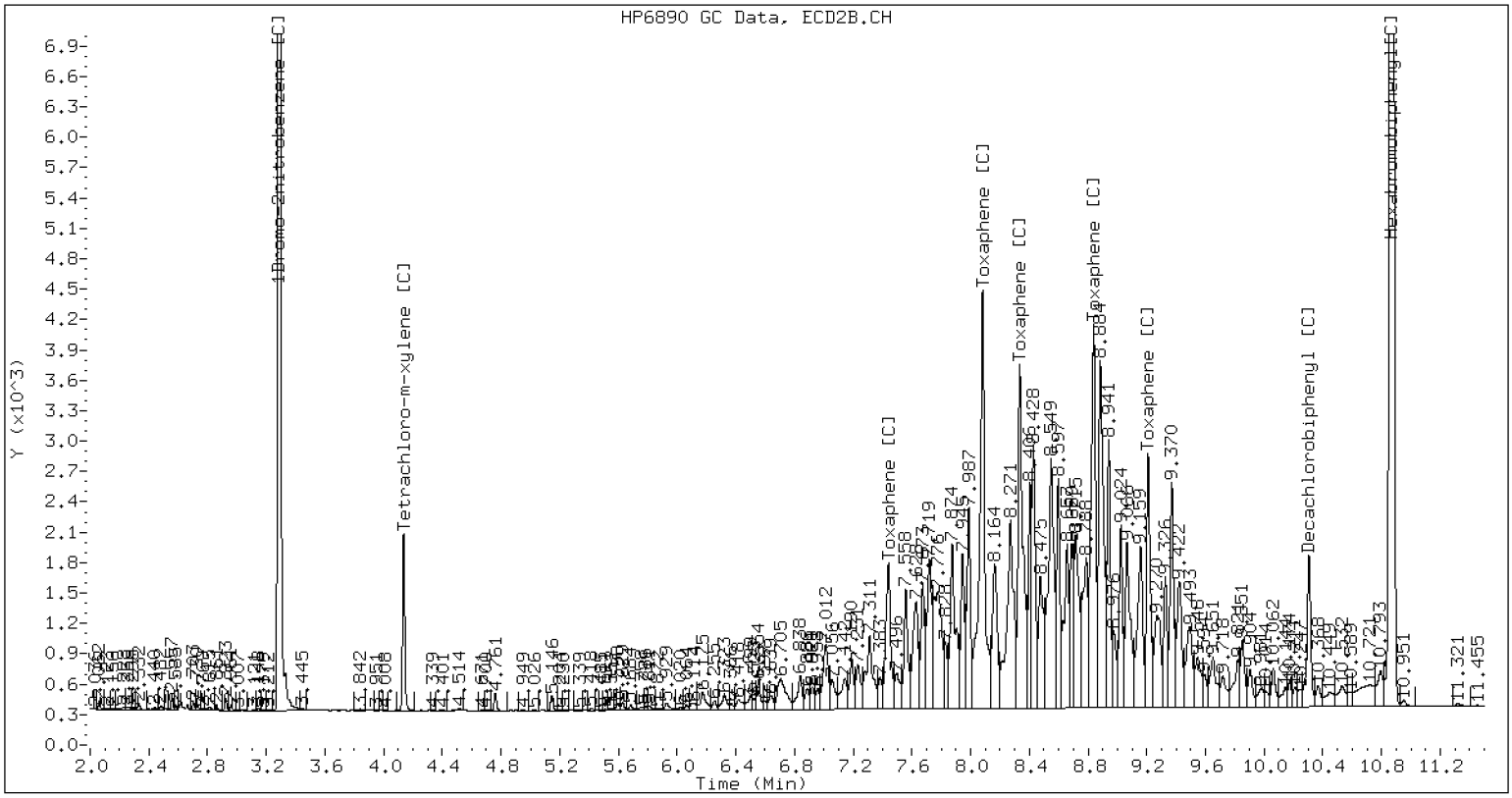


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041219.D SEQ-CALG CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041220.D
Data file 2: /20230412.b/B20230412.b/23041220.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALH
Client ID:
Injection Date: 12-APR-2023 20:29
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	54190	4.136	-0.000	72947	4.30	4.19	2.4	Tetrachloro-m-xylene
9.367	0.001	84057	10.306	-0.000	112592	9.95	12.27	20.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	901082	4.3
Hexabromobiphenyl	663237	716024	8.0

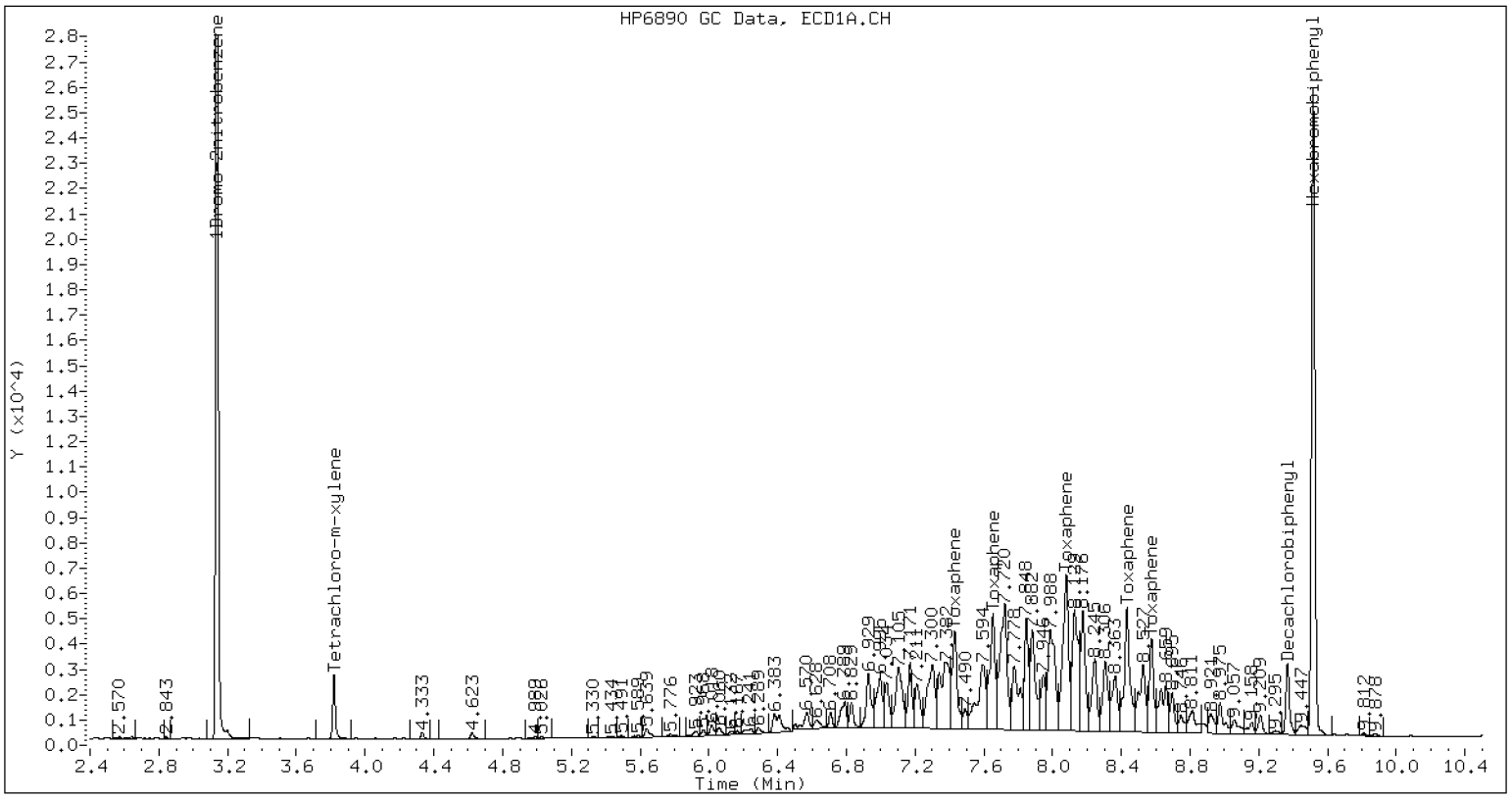
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1264745	-14.6
Hexabromobiphenyl	870561	760374	-12.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	7.430	0.000	157592	594.8	1	7.440	-0.000	136366	557.1
Toxaphene	2	7.652	-0.001	205637	579.8	2	8.082	-0.001	403294	558.1
Toxaphene	3	8.079	-0.000	290301	600.3	3	8.334	-0.002	313799	556.2
Toxaphene	4	8.433	-0.000	226845	595.0	4	8.838	-0.001	331417	547.0
Toxaphene	5	8.575	-0.000	137082	597.1	5	9.209	-0.001	180073	542.6
Total STX-CLPAve (5 peaks): 593.415						Total CLP2Ave (5 peaks): 552.208				RPD = 7
Corrected Ave (5 peaks): 593.415						Corrected Ave (5 peaks): 552.208				RPD = 7

/20230412.b/23041220.D SEQ-CALH STX-CLP 12-APR-2023 20:29 1ul



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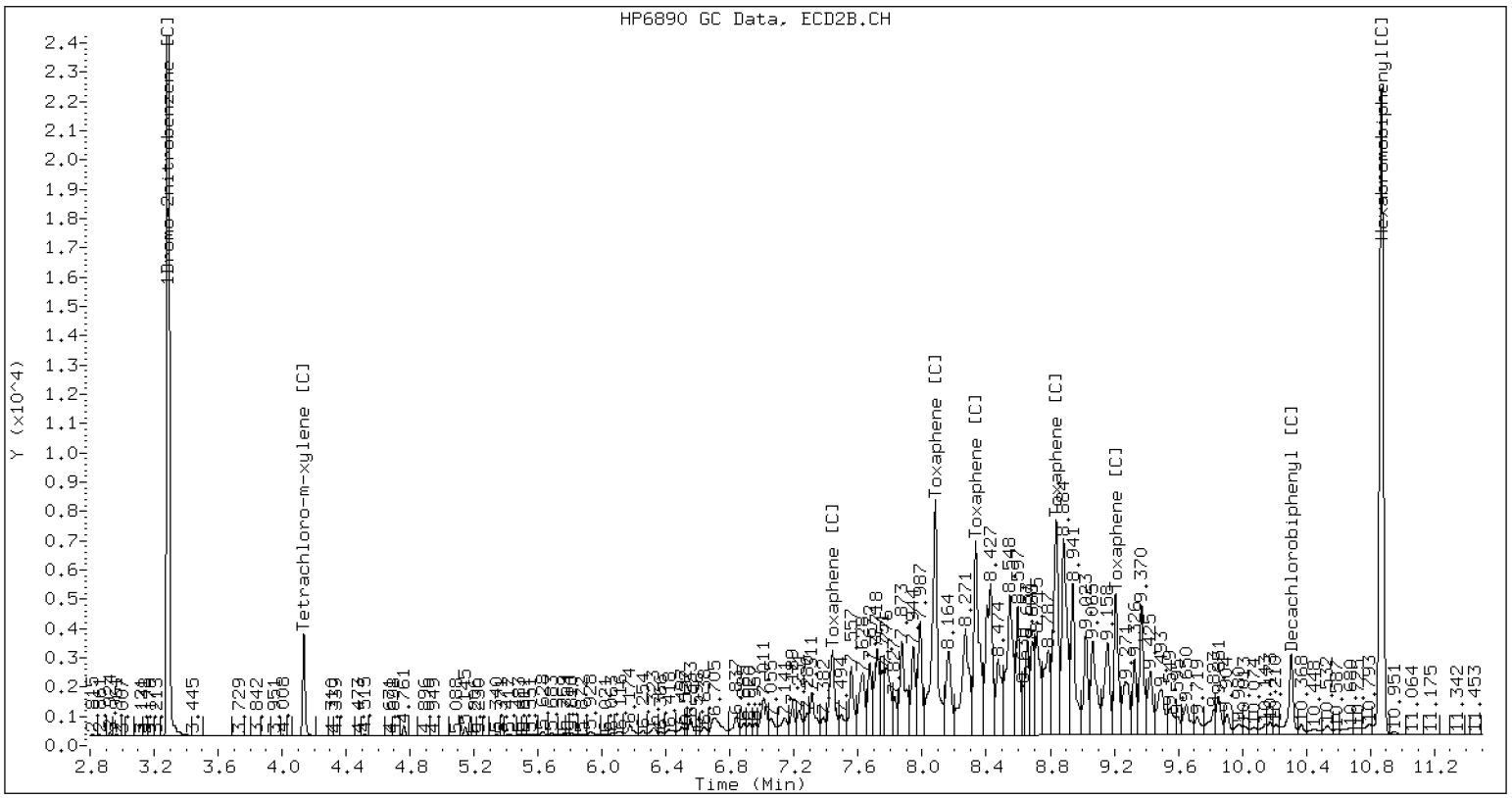
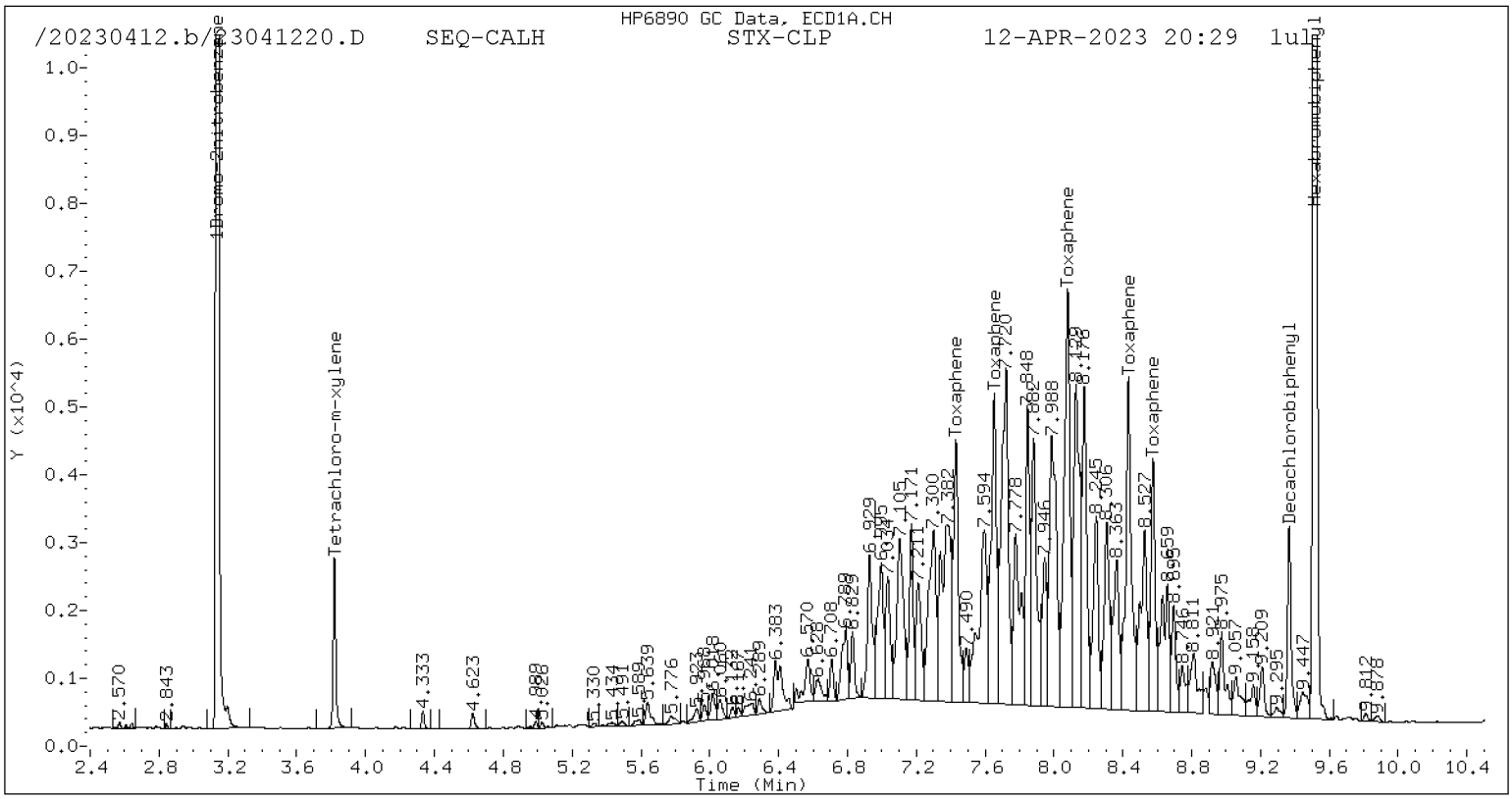
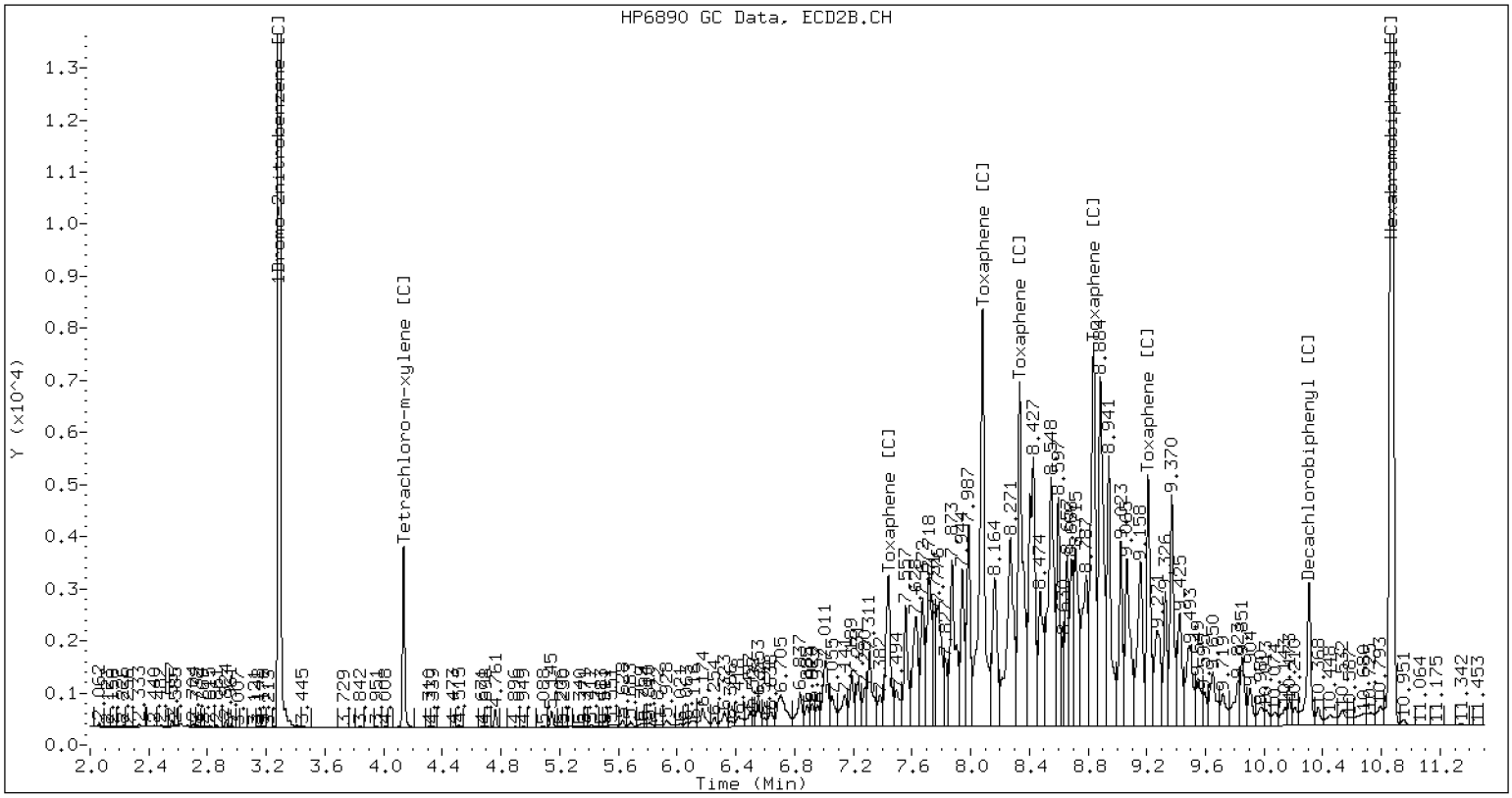


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041220.D SEQ-CALH CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041221.D
Data file 2: /20230412.b/B20230412.b/23041221.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALI
Client ID:
Injection Date: 12-APR-2023 20:47
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	105882	4.136	-0.000	143630	8.24	8.18	0.8	Tetrachloro-m-xylene
9.367	0.001	153784	10.306	0.000	209053	17.55	21.94	22.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	918194	6.2
Hexabromobiphenyl	663237	742986	12.0

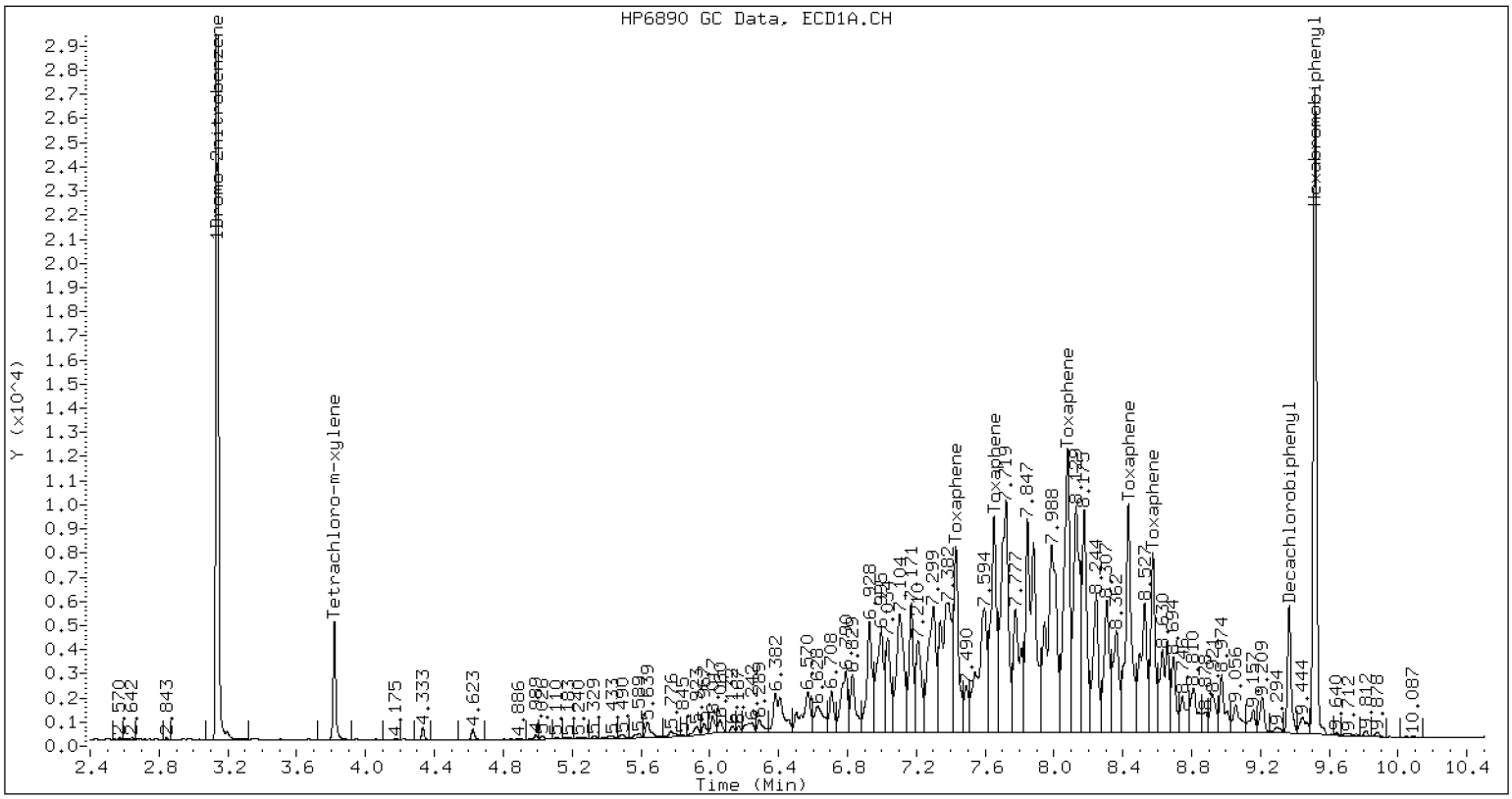
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1277652	-13.7
Hexabromobiphenyl	870561	789338	-9.3

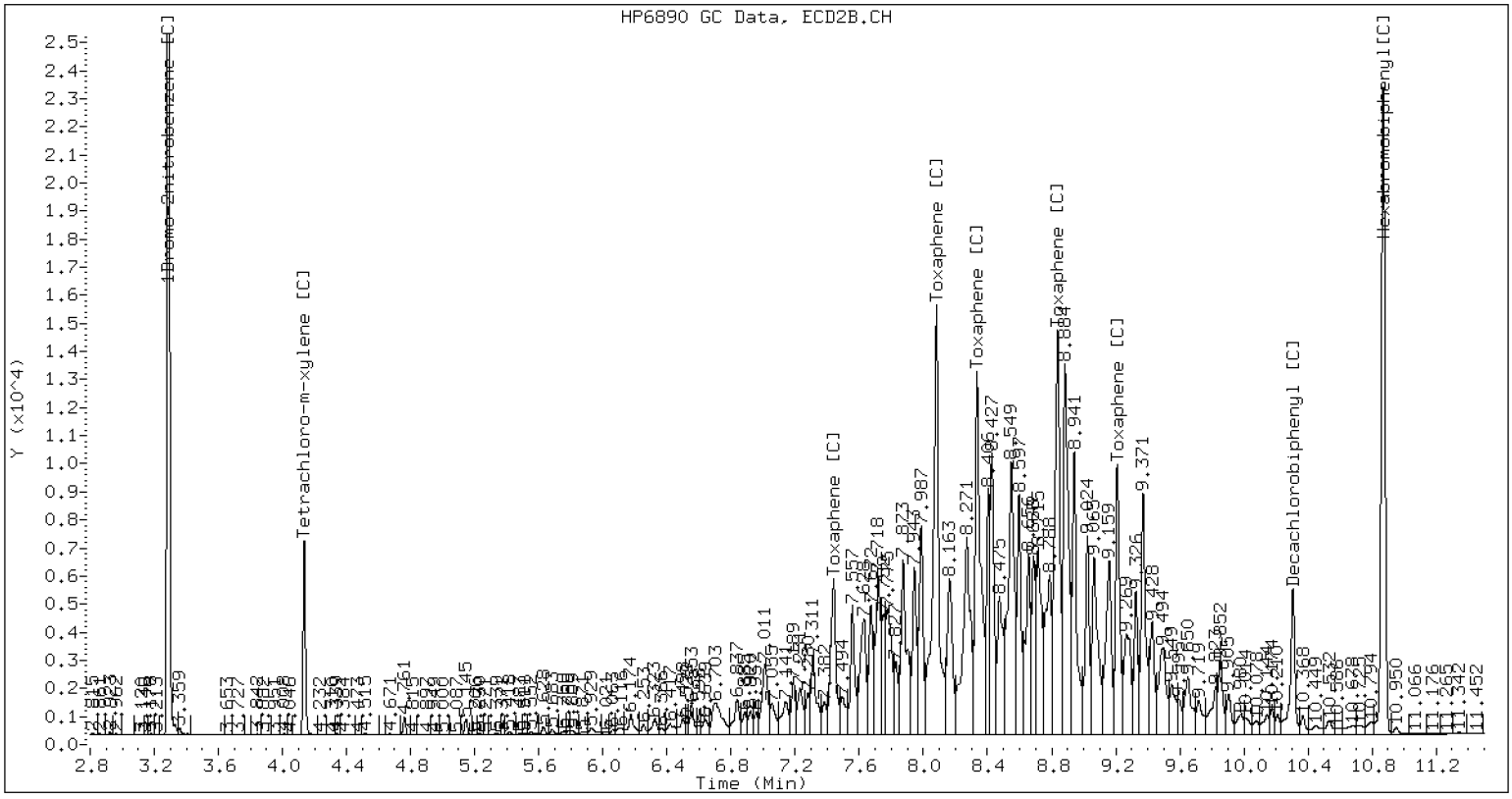
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.429	-0.001	301979	1098.4	1	7.440	-0.000	262813	1034.2	
Toxaphene	2	7.652	-0.001	416680	1132.3	2	8.081	-0.002	775904	1034.4	
Toxaphene	3	8.078	-0.001	559891	1115.8	3	8.335	-0.001	609018	1039.9	
Toxaphene	4	8.433	-0.000	452584	1144.0	4	8.838	-0.001	645519	1026.4	
Toxaphene	5	8.574	-0.001	277122	1163.4	5	9.210	-0.000	352517	1023.2	
Total STX-CLPAve (5 peaks): 1130.762						Total CLP2Ave (5 peaks): 1031.622					RPD = 9
Corrected Ave (5 peaks): 1130.762						Corrected Ave (5 peaks): 1031.622					RPD = 9

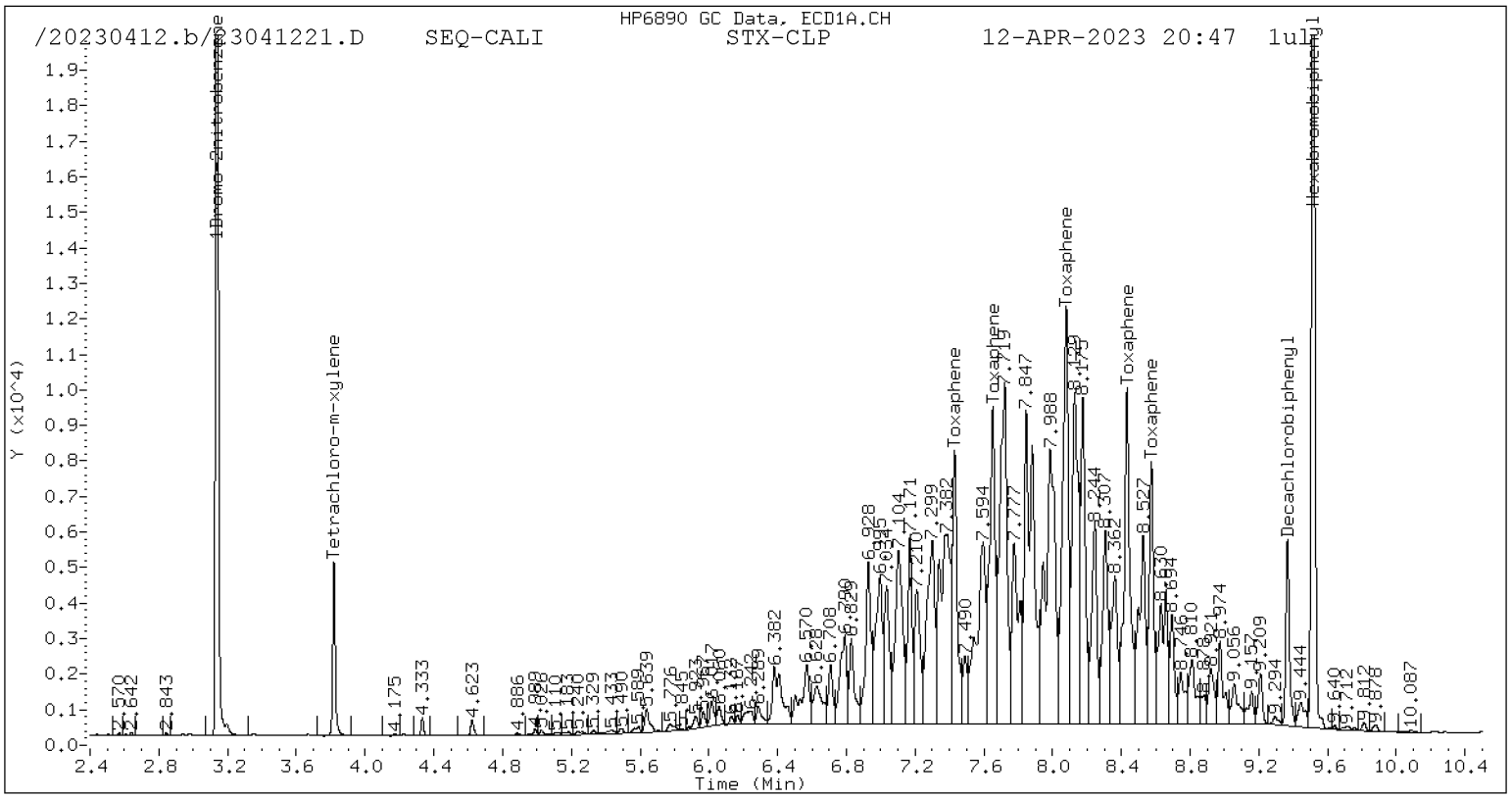
/20230412.b/23041221.D SEQ-CALI STX-CLP 12-APR-2023 20:47 1ul



/20230412.b/B20230412.b/23041221.D SEQ-CALI CLP2 12-APR-2023 20:47 1ul

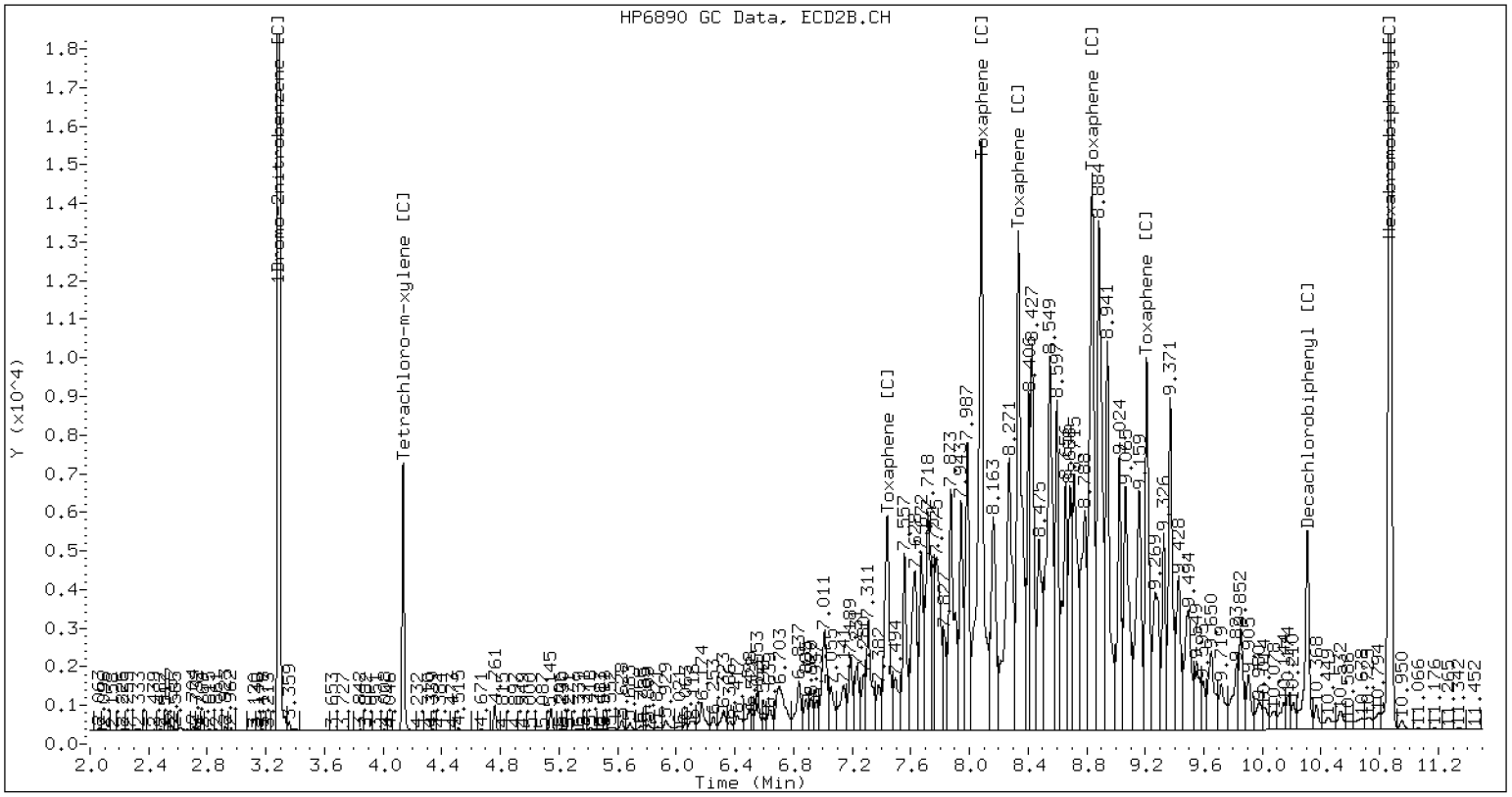


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041221.D SEQ-CALI CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041222.D
Data file 2: /20230412.b/B20230412.b/23041222.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALJ
Client ID:
Injection Date: 12-APR-2023 21:05
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	252501	4.136	-0.000	349014	19.37	19.72	1.8	Tetrachloro-m-xylene
9.367	0.001	411141	10.306	-0.000	491352	42.72	47.90	11.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	931444	7.8
Hexabromobiphenyl	663237	816041	23.0

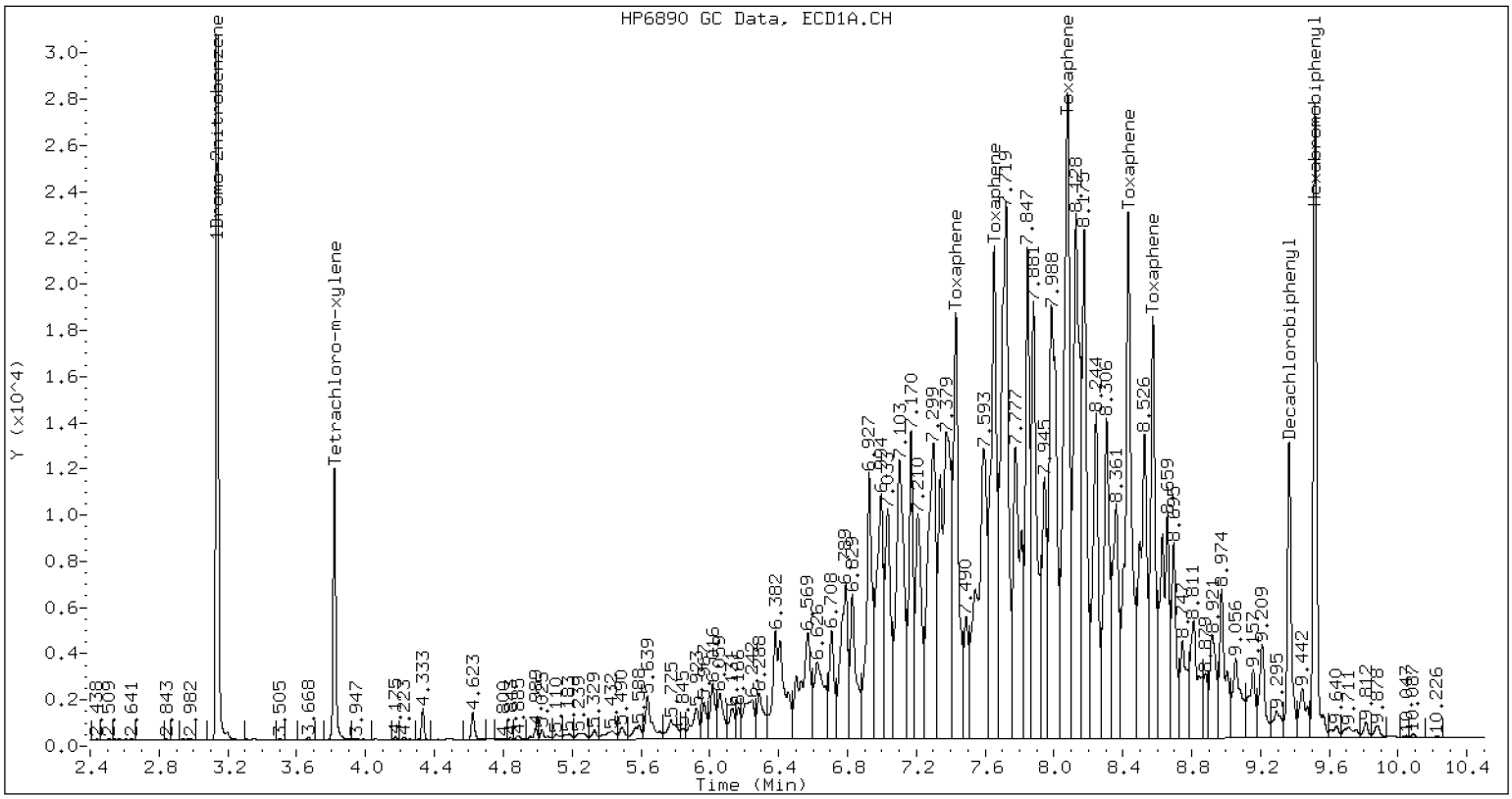
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1287009	-13.1
Hexabromobiphenyl	870561	849848	-2.4

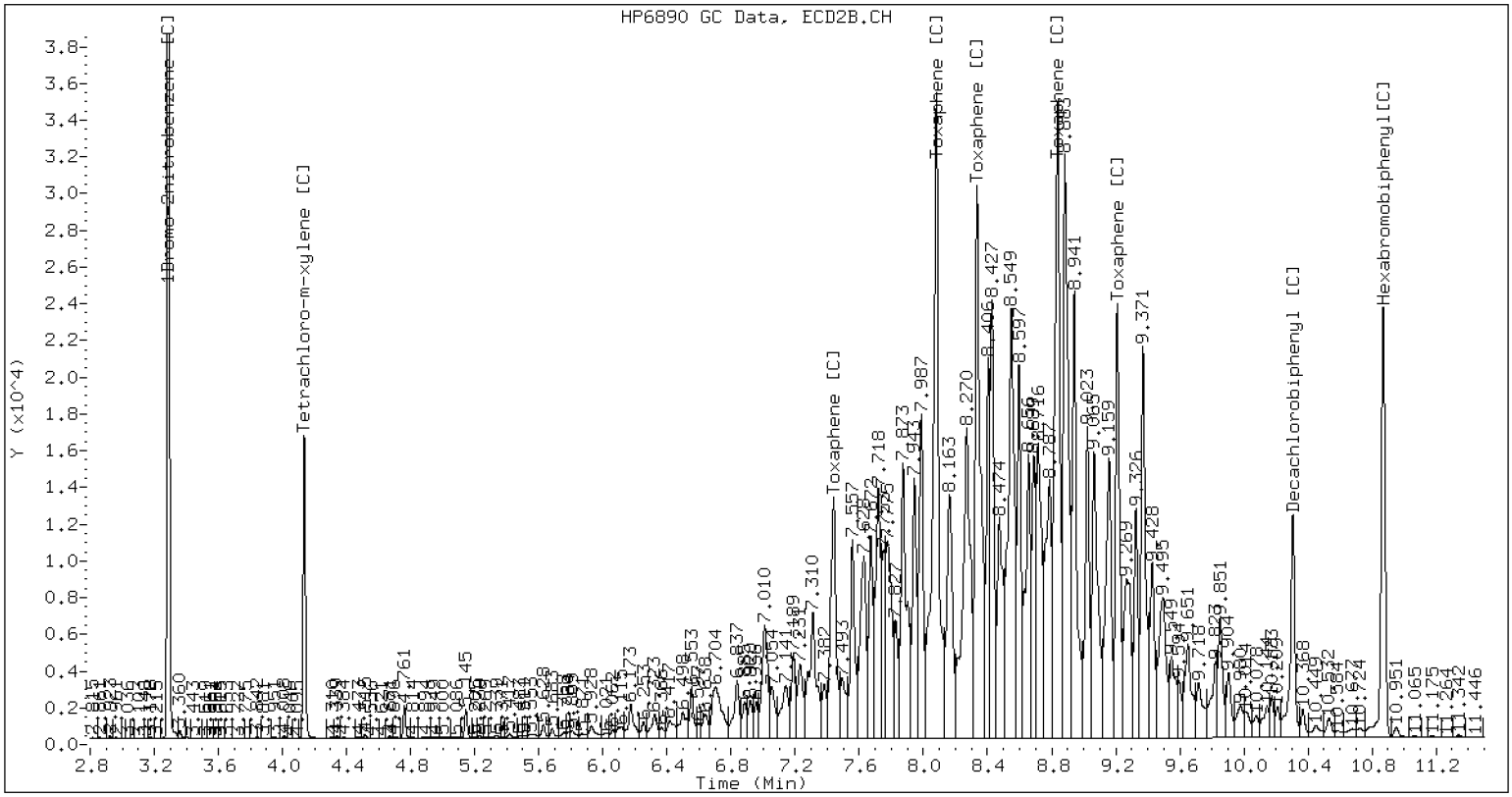
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.429	-0.001	797088	2639.8	1	7.440	-0.000	629948	2302.4	
Toxaphene	2	7.652	-0.001	1032073	2553.4	2	8.081	-0.002	1823289	2257.7	
Toxaphene	3	8.078	-0.001	1374882	2494.6	3	8.335	-0.001	1449258	2298.5	
Toxaphene	4	8.432	-0.001	1177736	2710.5	4	8.838	-0.001	1557874	2300.6	
Toxaphene	5	8.575	-0.001	709132	2710.4	5	9.210	-0.001	862039	2324.0	
Total STX-CLPAve (5 peaks): 2621.744						Total CLP2Ave (5 peaks): 2296.637					RPD = 13
Corrected Ave (5 peaks): 2621.744						Corrected Ave (5 peaks): 2296.637					RPD = 13

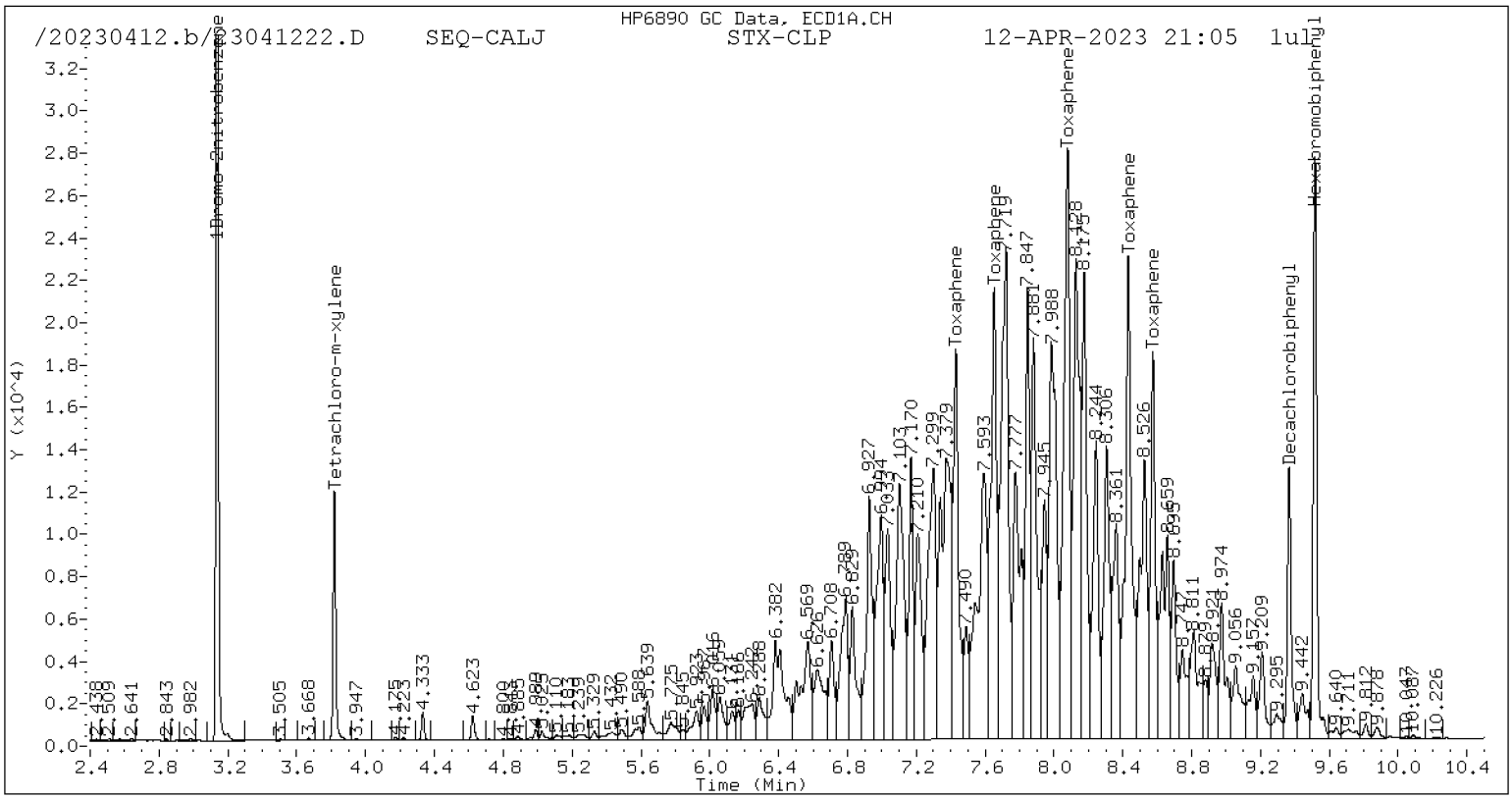
/20230412.b/23041222.D SEQ-CALJ STX-CLP 12-APR-2023 21:05 1ul



/20230412.b/B20230412.b/23041222.D SEQ-CALJ CLP2 12-APR-2023 21:05 1ul

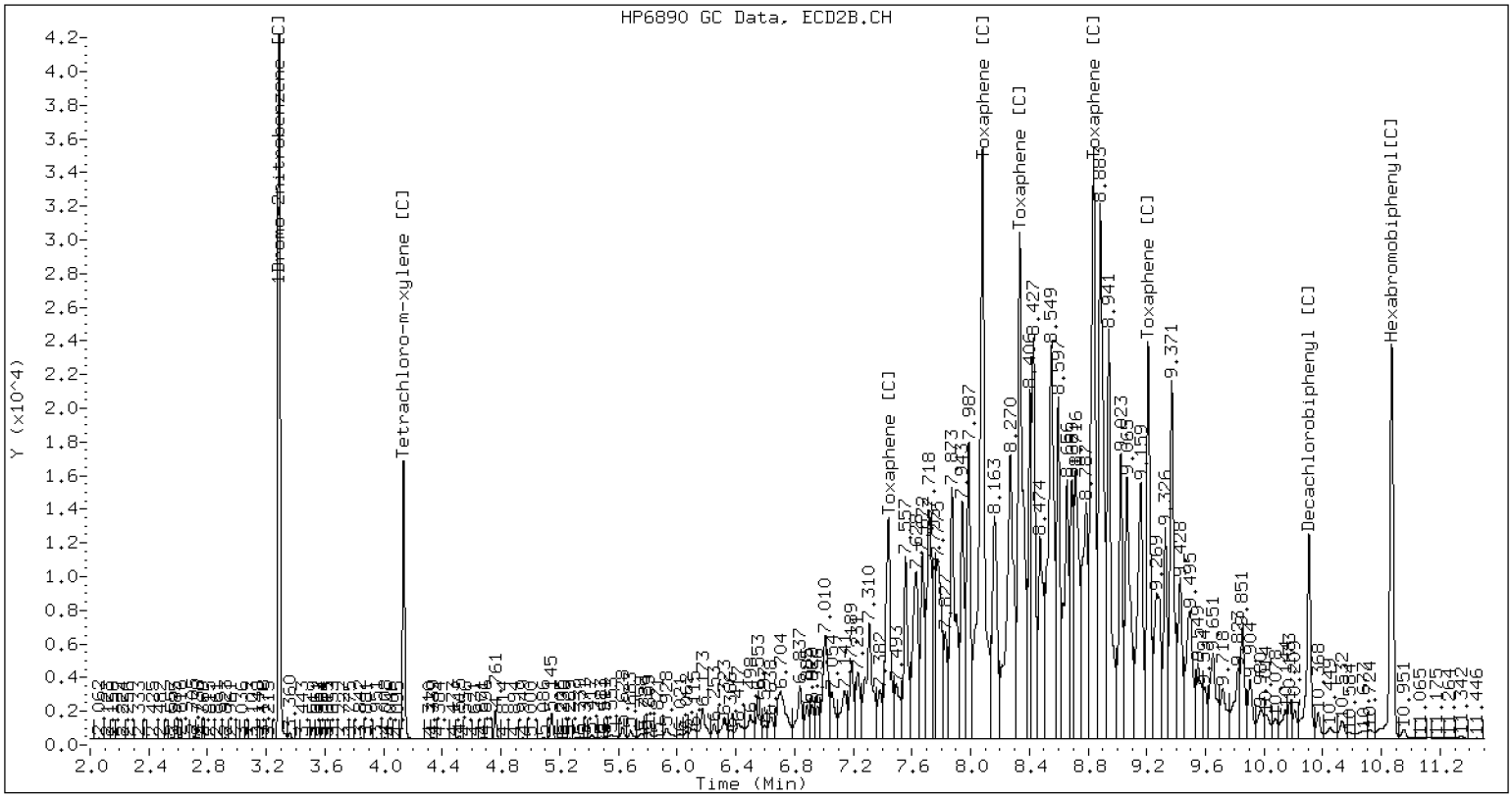


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041222.D SEQ-CALJ CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041223.D
Data file 2: /20230412.b/B20230412.b/23041223.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALK
Client ID:
Injection Date: 12-APR-2023 21:24
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.820	0.001	478616	4.136	-0.000	664045	37.29	37.94	1.7	Tetrachloro-m-xylene
9.367	0.001	786481	10.307	0.001	944710	75.08	93.37	21.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	917226	6.1
Hexabromobiphenyl	663237	888107	33.9

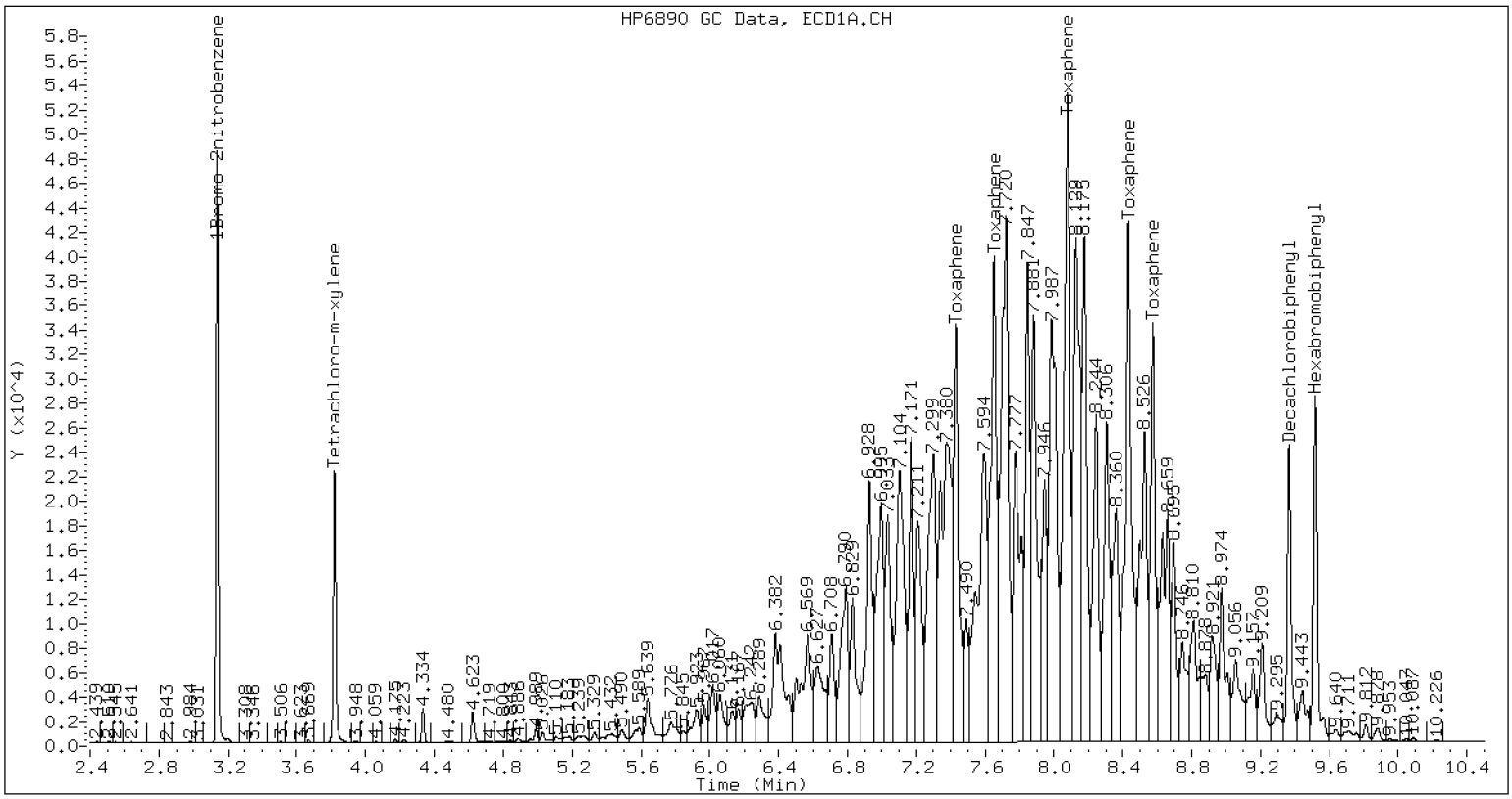
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1272946	-14.0
Hexabromobiphenyl	870561	838283	-3.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.429	-0.001	1418710	4317.2	1	7.440	0.000	1190021	4409.5	
Toxaphene	2	7.652	-0.001	1929987	4387.5	2	8.082	-0.001	3433292	4309.9	
Toxaphene	3	8.079	-0.000	2596396	4328.7	3	8.335	-0.001	2739705	4405.0	
Toxaphene	4	8.432	-0.000	2227368	4710.1	4	8.839	-0.000	2971015	4448.0	
Toxaphene	5	8.575	-0.001	1346952	4730.5	5	9.210	-0.000	1678180	4586.6	
Total STX-CLPAve (5 peaks): 4494.806						Total CLP2Ave (5 peaks): 4431.818				RPD = 1	
Corrected Ave (5 peaks): 4494.806						Corrected Ave (5 peaks): 4431.818				RPD = 1	

/20230412.b/23041223.D SEQ-CALK STX-CLP 12-APR-2023 21:24 1ul



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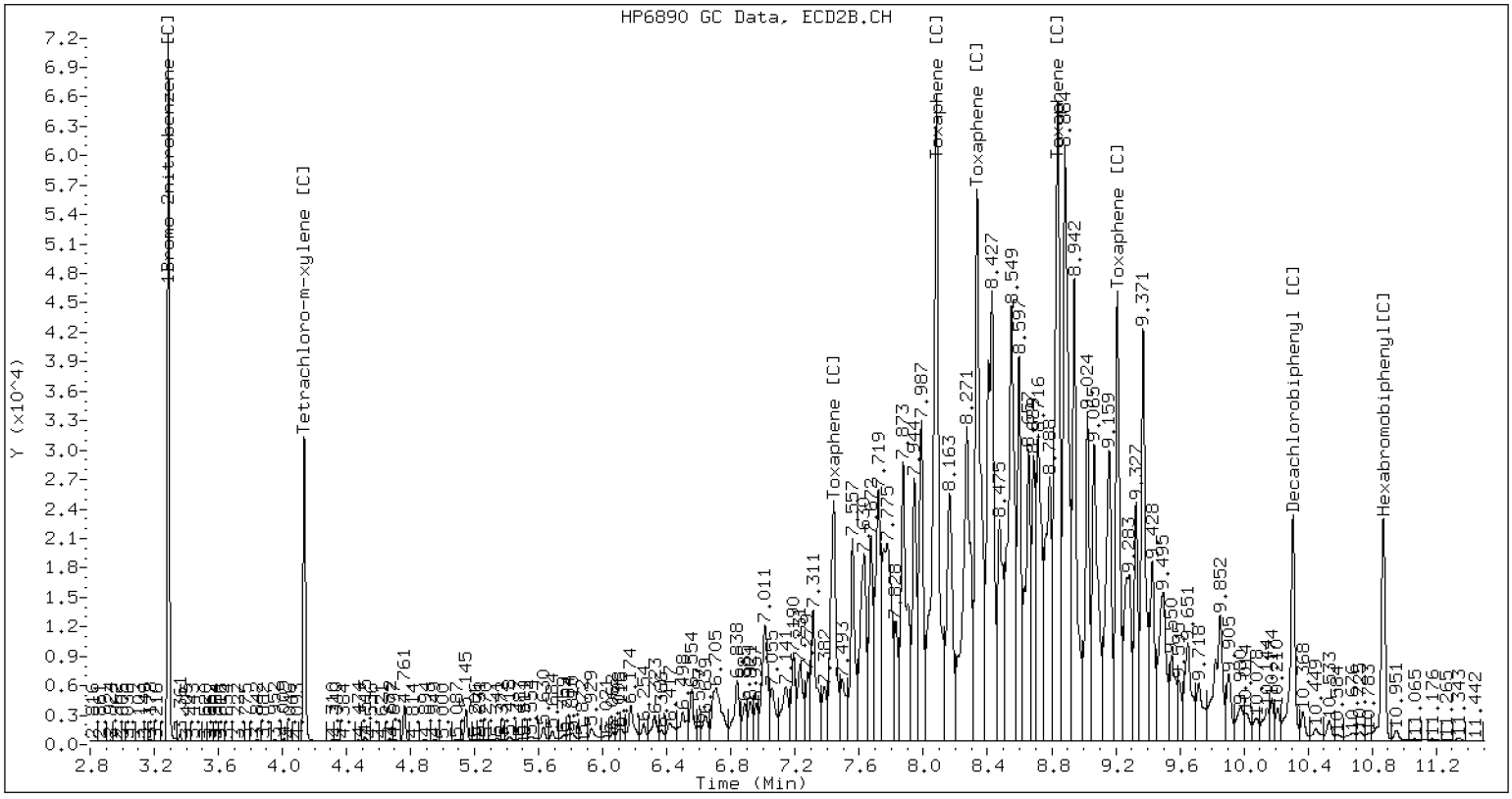
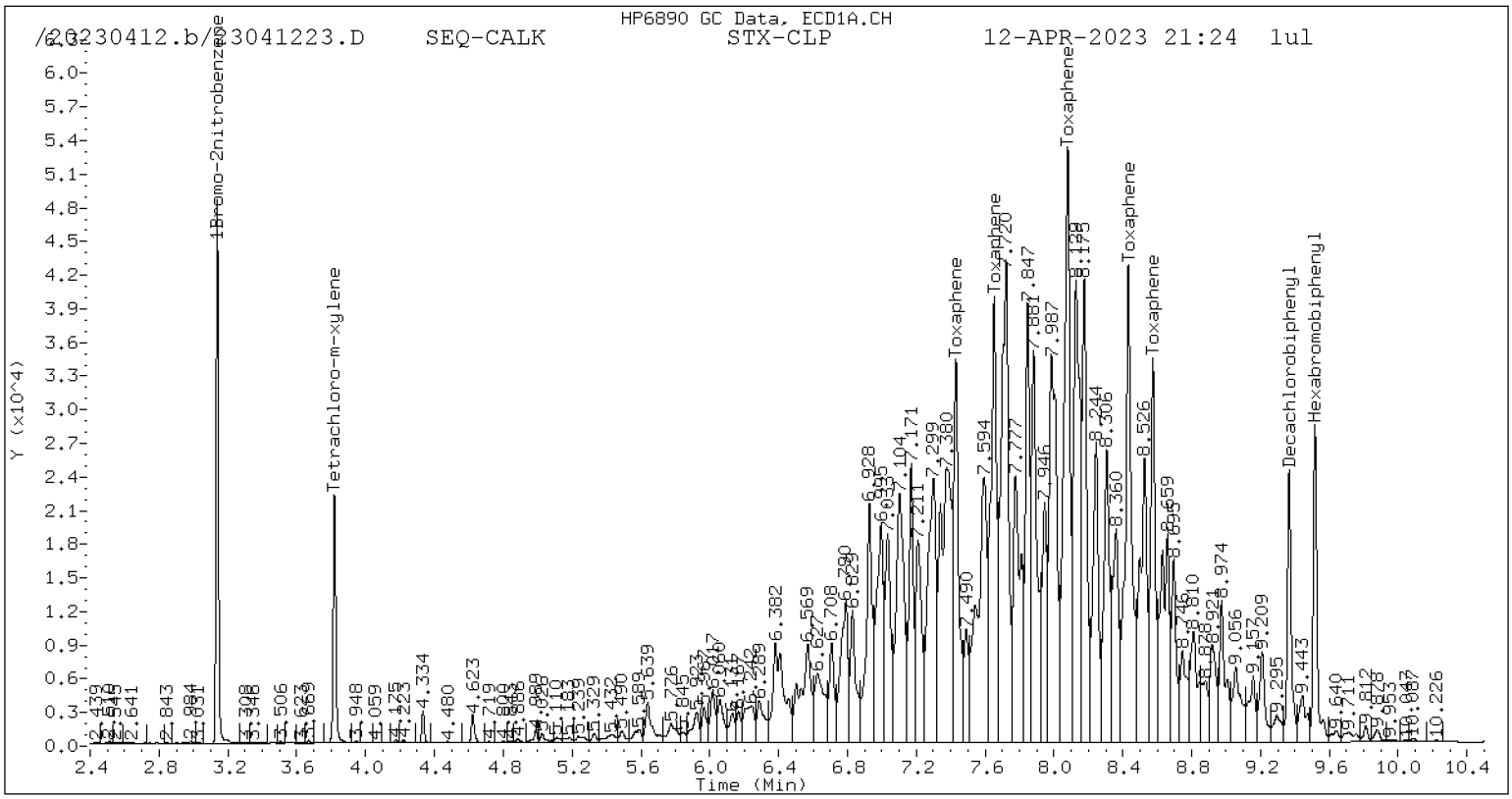
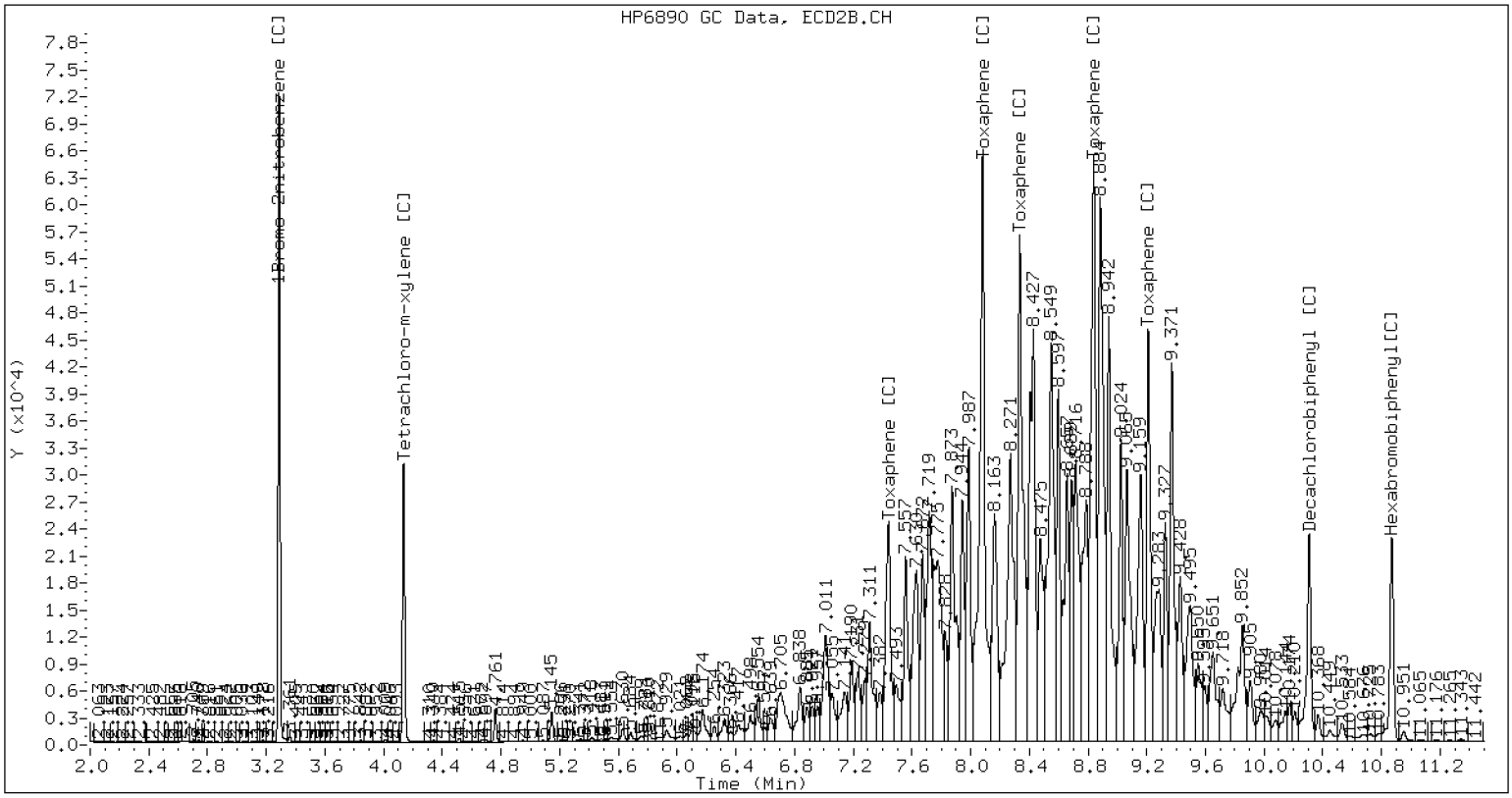


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041223.D SEQ-CALK CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041224.D
Data file 2: /20230412.b/B20230412.b/23041224.D
Method: \20230412.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALL
Client ID:
Injection Date: 12-APR-2023 21:42
Report Date: 04/13/2023 13:06
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.819	0.000	895380	4.136	-0.000	1216061	70.47	70.31	0.2	Tetrachloro-m-xylene
9.366	0.000	1481211	10.306	-0.000	1790917	116.97	168.24	36.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	908010	5.1
Hexabromobiphenyl	663237	1073617	61.9

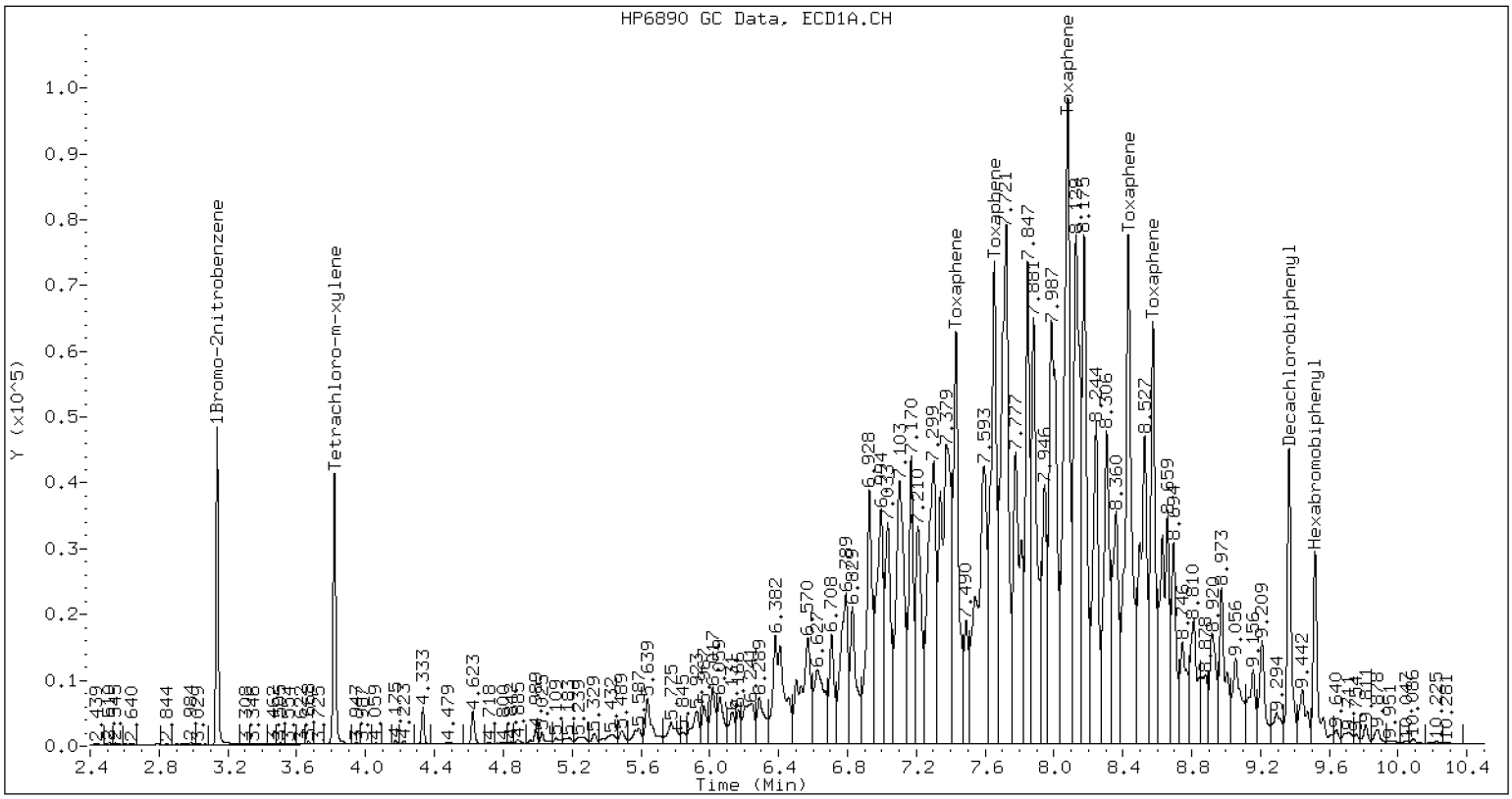
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	1257770	-15.1
Hexabromobiphenyl	870561	881950	1.3

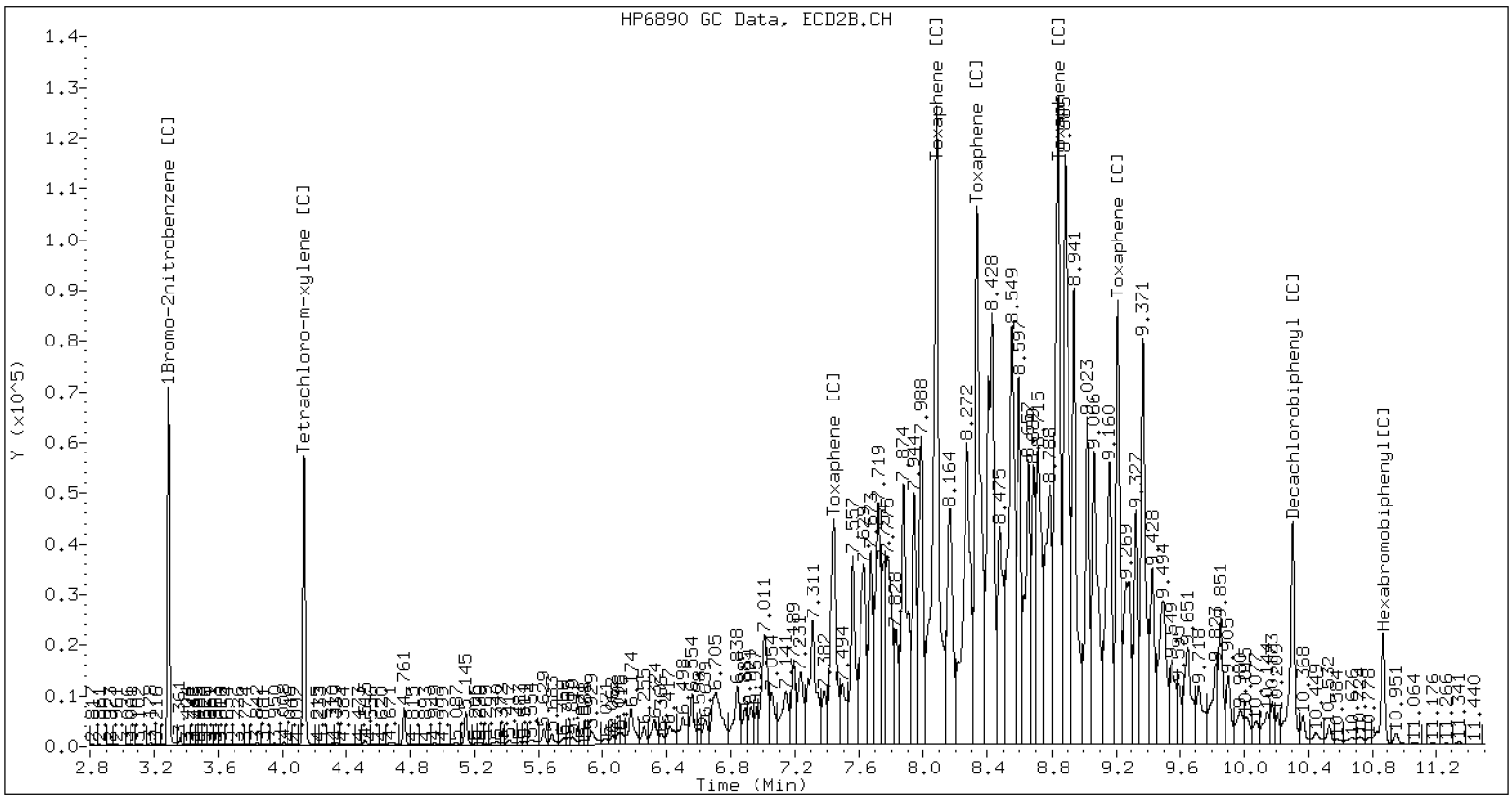
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	7.430	-0.000	2786527	7014.4	1	7.440	0.000	2199872	7747.7	
Toxaphene	2	7.652	-0.001	3557899	6690.7	2	8.083	0.000	6483577	7736.1	
Toxaphene	3	8.079	-0.000	4809205	6632.4	3	8.336	-0.000	5124179	7830.9	
Toxaphene	4	8.432	-0.001	4063530	7108.2	4	8.839	0.000	5684314	8088.9	
Toxaphene	5	8.575	-0.001	2519164	7318.6	5	9.210	0.000	3217244	8357.7	
Total STX-CLPAve (5 peaks): 6952.870						Total CLP2Ave (5 peaks): 7952.272					RPD = 13
Corrected Ave (5 peaks): 6952.870						Corrected Ave (5 peaks): 7952.272					RPD = 13

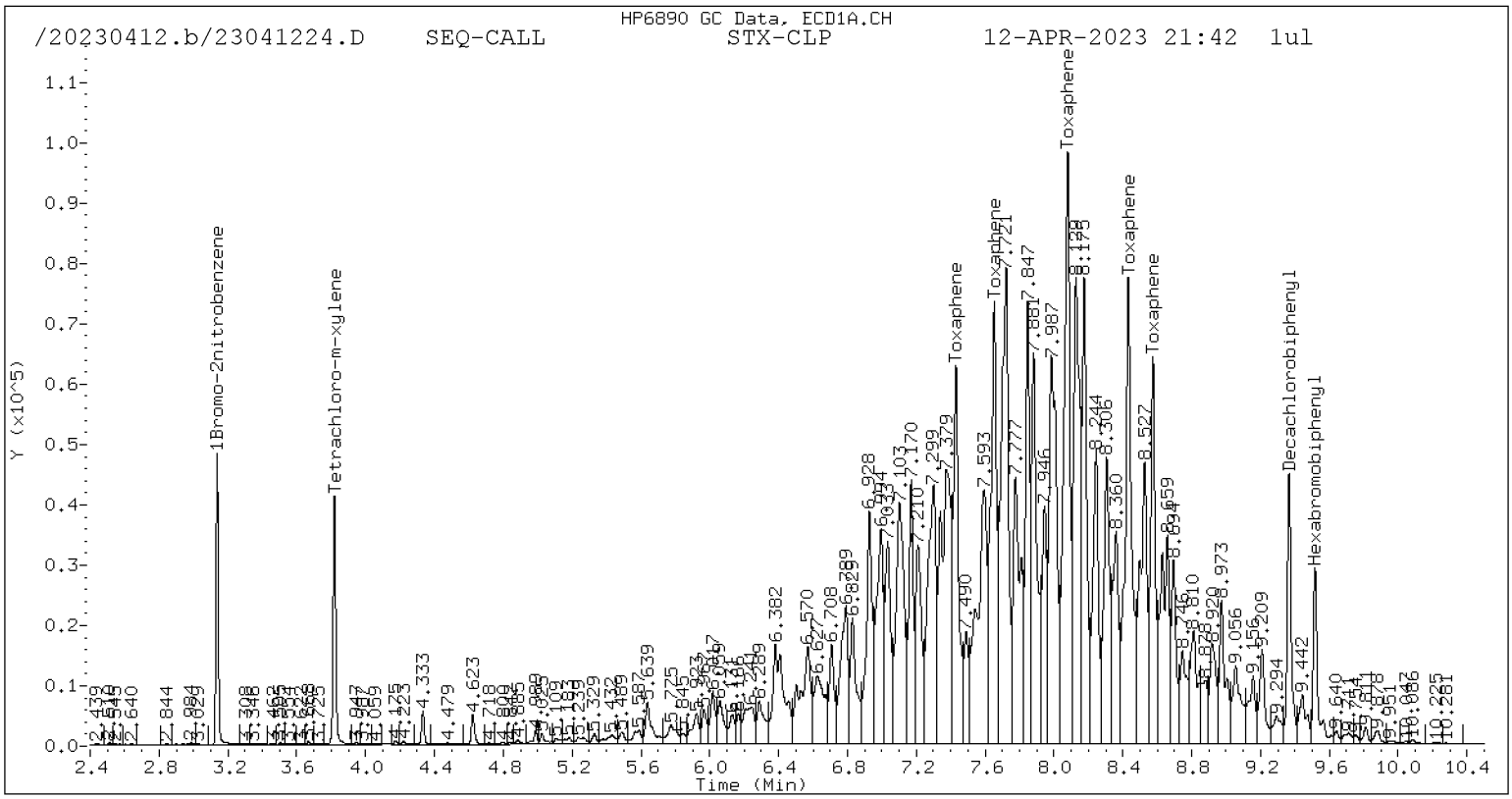
/20230412.b/23041224.D SEQ-CALL STX-CLP 12-APR-2023 21:42 1ul



/20230412.b/B20230412.b/23041224.D SEQ-CALL CLP2 12-APR-2023 21:42 1ul

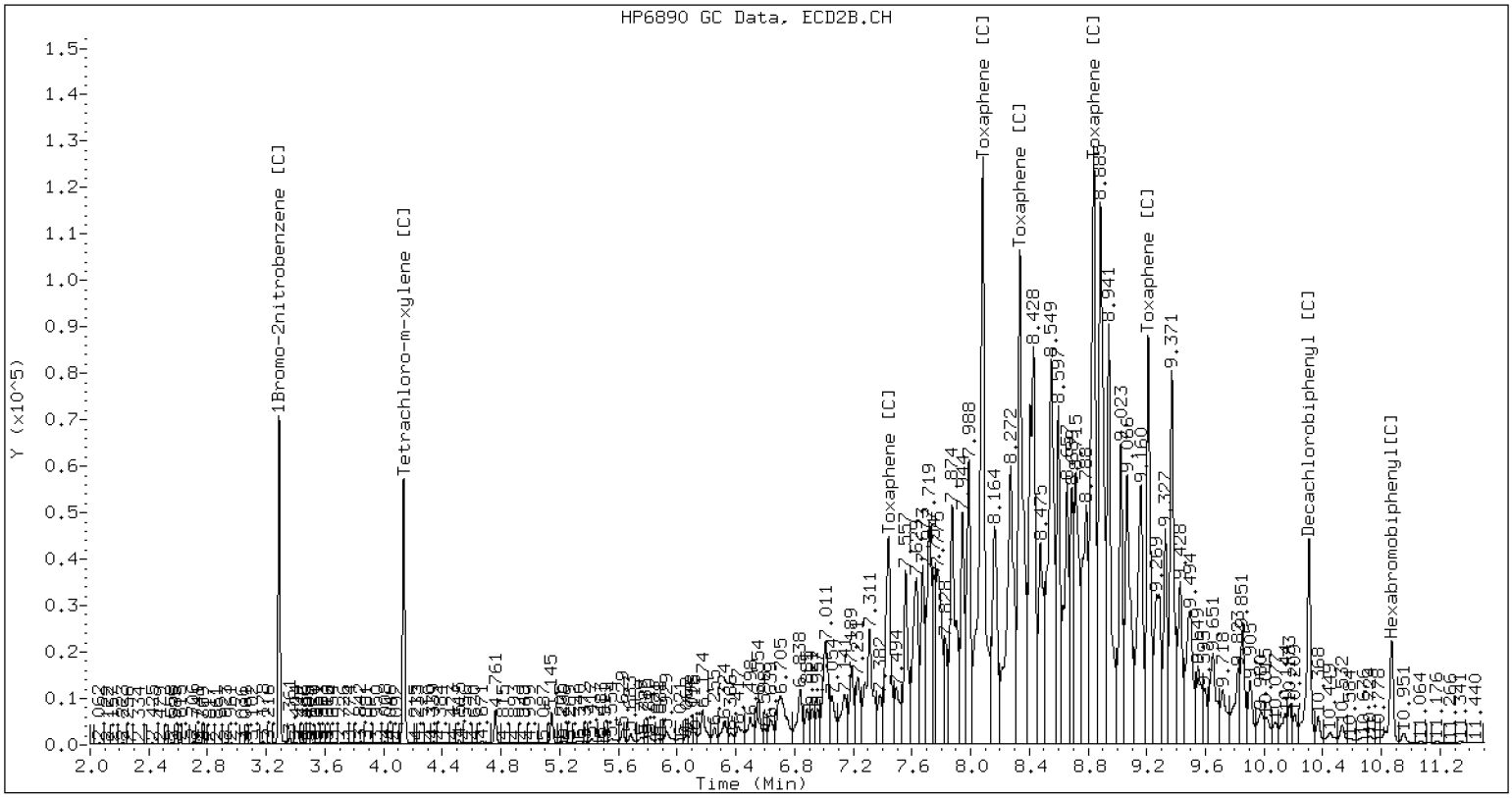


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

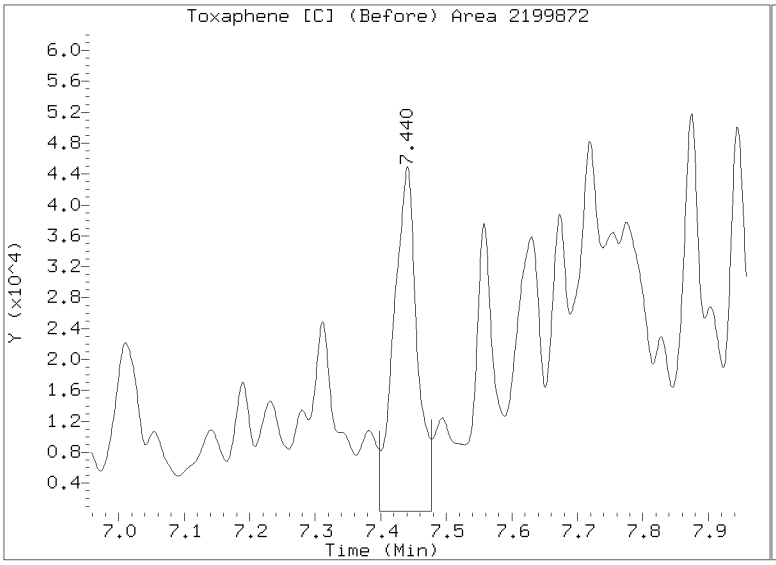
/20230412.b/B20230412.b/23041224.D SEQ-CALL CLP2

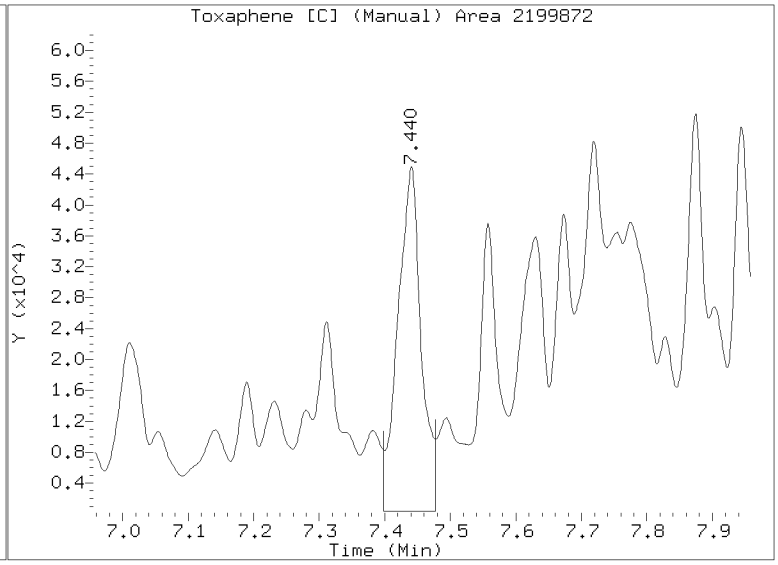


CLP-2 Manual Integration: NO

Manual Peak Adjustment Report, CLP-2

Datafile: /20230412.b/B20230412.b/23041224.D
Injection Date: 12-APR-2023 21:42
Lab ID:SEQ-CALL Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23041228.D	Calibration Date:	04/12/2023
Sequence:	SLD0187	Injection Date:	04/12/23
Lab Sample ID:	SLD0187-ICV1	Injection Time:	22:55
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Hexachlorobenzene	A	20.000	17.7	1.5480310	1.3661750		-11.7	+/-20	
Hexachlorobenzene [2C]	A	20.000	17.6	1.4821210	1.3050430		-11.9	+/-20	
Decachlorobiphenyl	A	40.000	31.9	0.9435985	0.7530461		-20.2	+/-20	*
Decachlorobiphenyl [2C]	A	40.000	33.5	0.9656083	0.8094568		-16.2	+/-20	
Tetrachlorometaxylene	A	40.000	35.4	1.1193850	0.9917150		-11.4	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.1000560	0.9834952		-10.6	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041228.D
Data file 2: /20230412.b/B20230412.b/23041228.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-ICV1
Client ID:
Injection Date: 12-APR-2023 22:55
Report Date: 04/14/2023 08:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.334	0.001	207474	4.761	-0.001	284638	17.97	18.02	0.3	alpha-BHC
4.718	0.001	79749	5.229	-0.001	108826	17.30	17.35	0.3	beta-BHC
4.902	0.001	188168	5.577	-0.000	236979	18.00	16.85	6.6	delta-BHC
4.637	0.000	181942	5.151	-0.001	248772	17.93	17.92	0.1	gamma-BHC (Lindane)
5.125	0.001	169303	5.671	-0.000	221956	18.03	18.23	1.1	Heptachlor
5.449	0.001	171374	6.070	-0.001	227085	17.94	17.96	0.1	Aldrin
6.125	0.000	147922	6.728	-0.001	191017	17.16	17.17	0.0	Heptachlor epoxide b
6.568	0.001	138197	7.172	-0.000	168955	17.98	17.82	0.9	Endosulfan I
6.828	0.000	292815	7.466	0.000	372477	36.01	35.84	0.5	Dieldrin
6.490	0.001	275927	7.257	0.000	356702	35.98	36.06	0.2	4,4'-DDE
7.079	0.001	245544	7.789	-0.001	306841	33.13	32.56	1.7	Endrin
7.314	0.000	244805	8.000	-0.001	303230	35.28	34.06	3.5	Endosulfan II
7.137	0.001	235742	7.862	-0.000	294896	35.44	34.23	3.5	4,4'-DDD
8.178	0.001	226658	8.597	-0.001	277723	34.64	33.88	2.2	Endosulfan sulfate
7.431	0.000	252763	8.180	-0.001	301143	35.28	34.65	1.8	4,4'-DDT
7.920	-0.000	503445	8.820	-0.002	607472	164.03	163.00	0.6	Methoxychlor
8.452	0.000	256795	9.119	-0.000	304196	34.40	33.98	1.2	Endrin ketone
7.743	-0.000	185676	8.331	-0.000	217531	35.06	33.79	3.7	Endrin aldehyde
6.267	0.001	150498	6.939	0.000	188905	17.84	17.70	0.8	trans-Chlordane
6.414	0.001	150678	7.099	-0.001	185516	17.79	17.66	0.8	cis-Chlordane
2.309	-0.000	207080	2.453	-0.000	181778	17.39	12.68	31.4	Hexachlorobutadiene
4.175	0.000	180316	4.622	0.000	242905	17.65	17.61	0.2	Hexachlorobenzene
3.820	0.001	261785	4.136	-0.000	366112	35.44	35.76	0.9	Tetrachloro-m-xylene
9.366	0.000	161464	10.306	0.000	189508	31.92	33.53	4.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	527944	-38.9
Hexabromobiphenyl	663237	428829	-35.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	744512	-49.7
Hexabromobiphenyl	870561	468235	-46.2

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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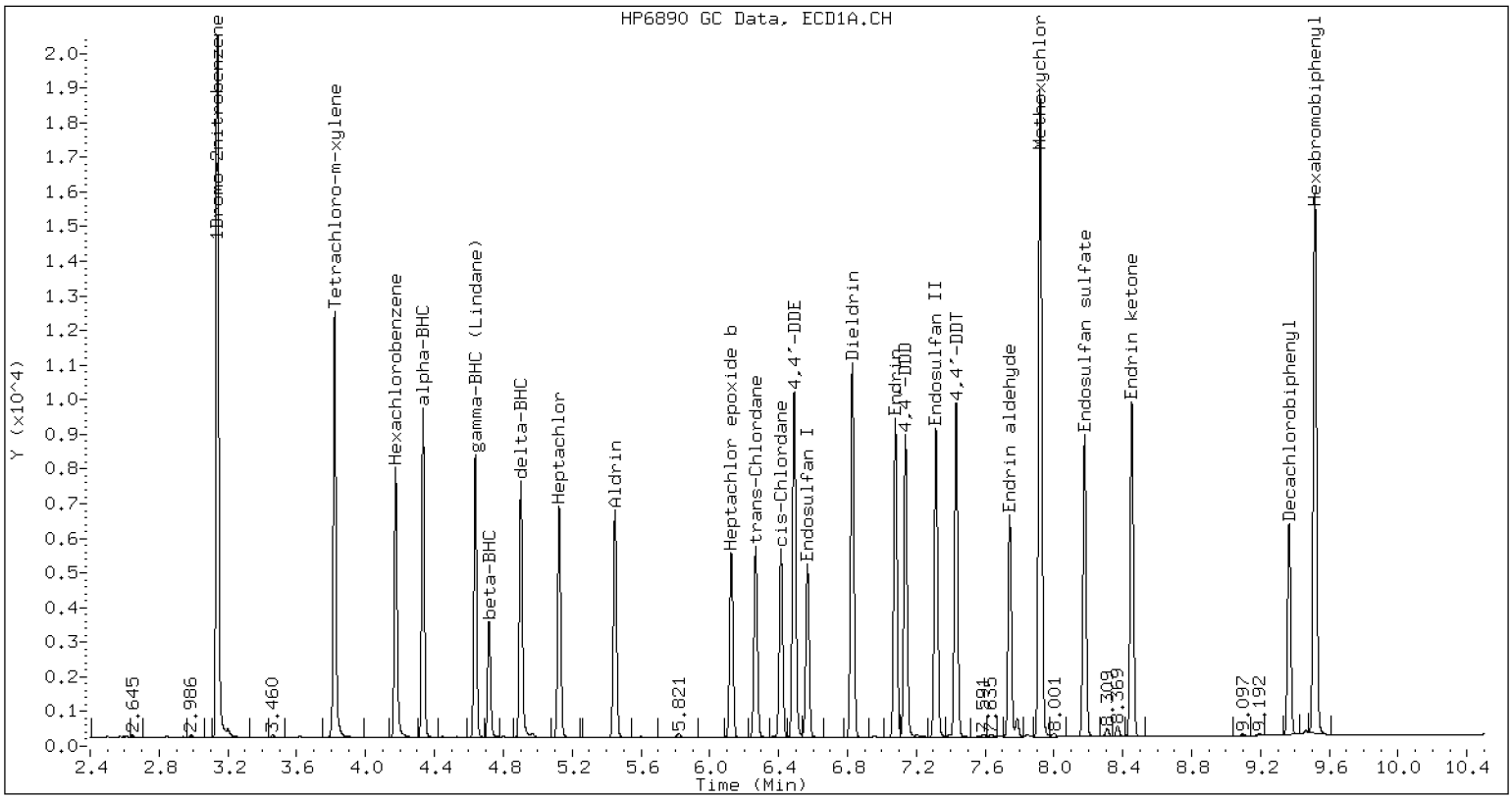

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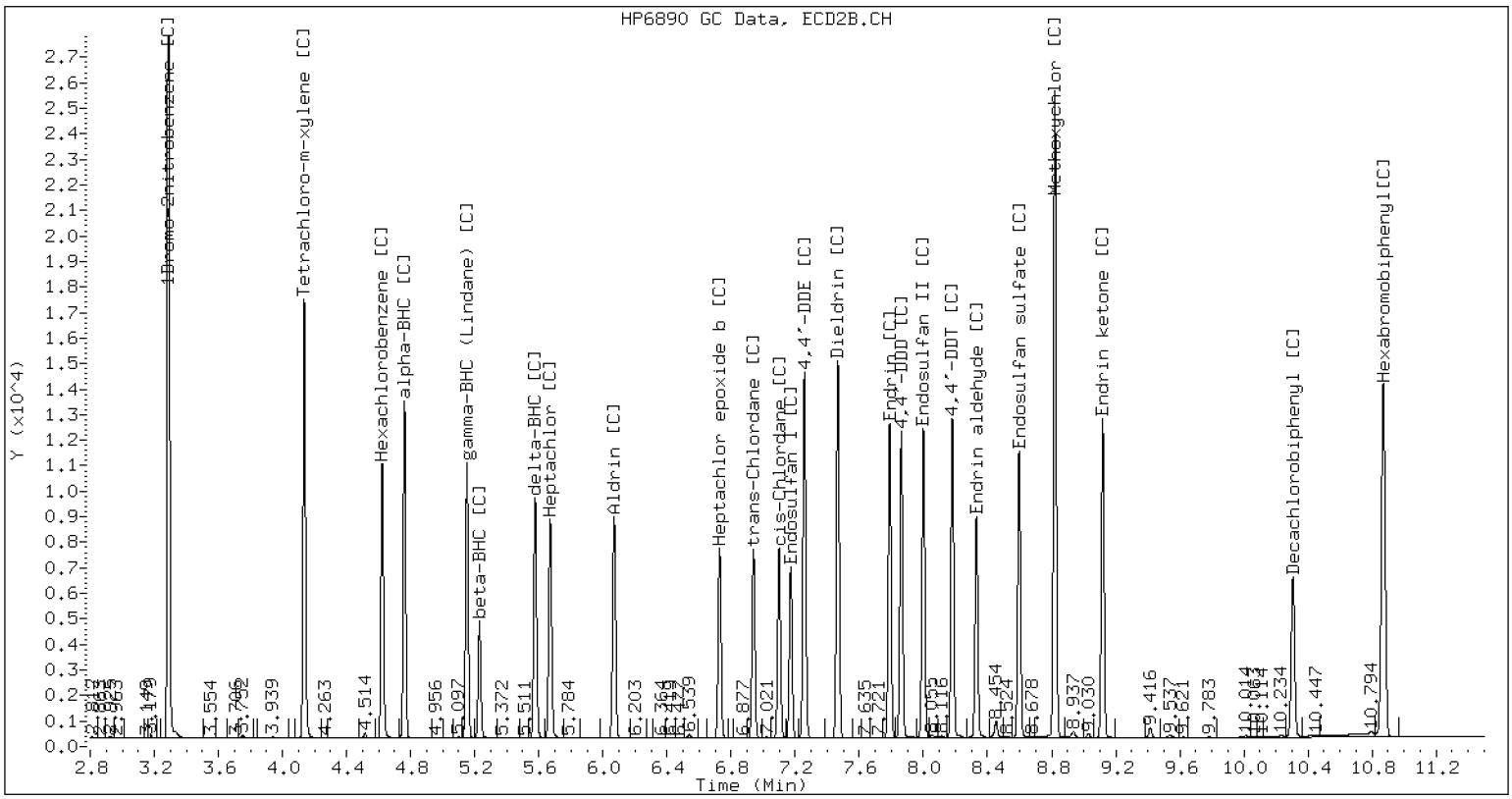
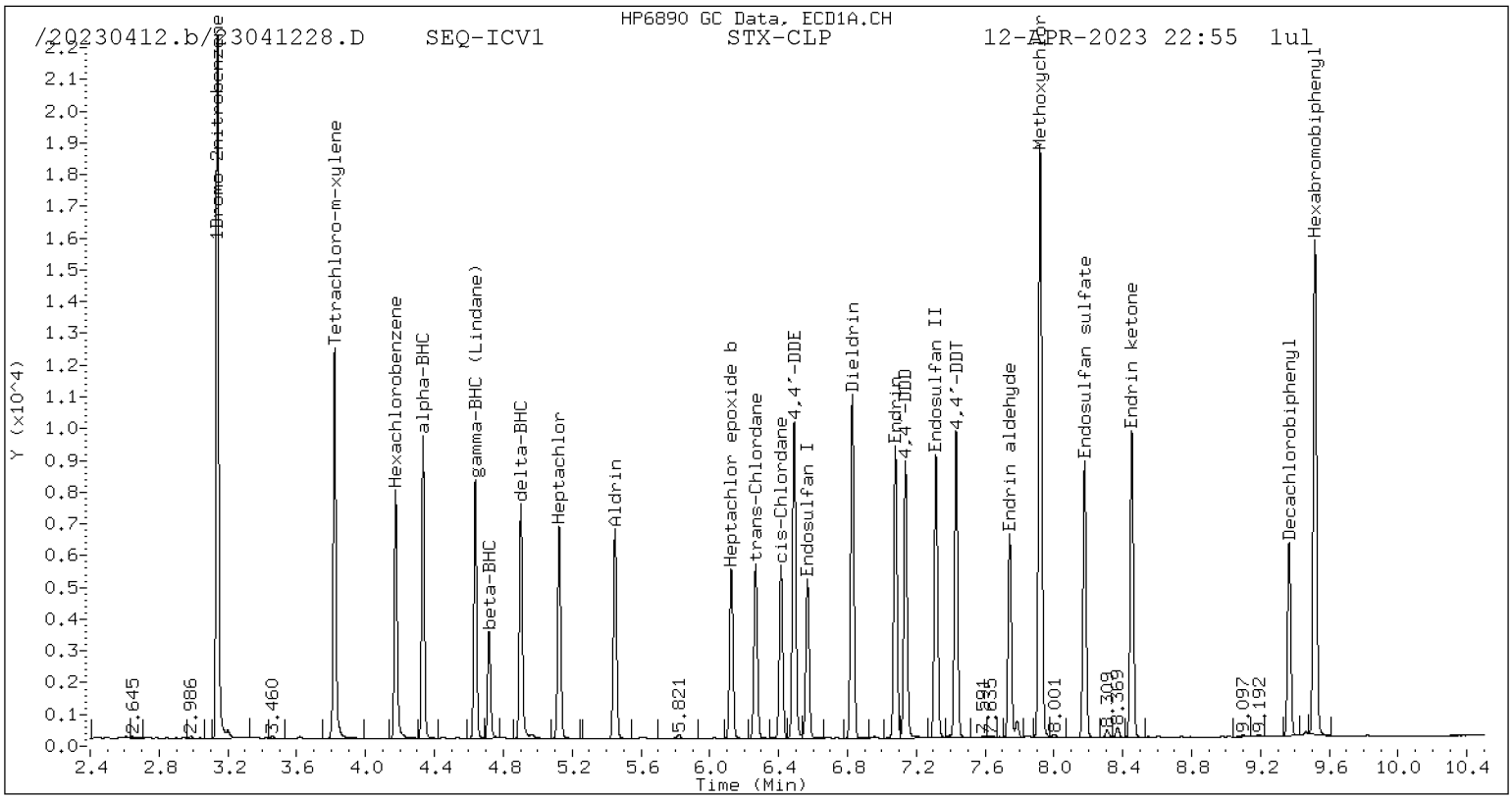
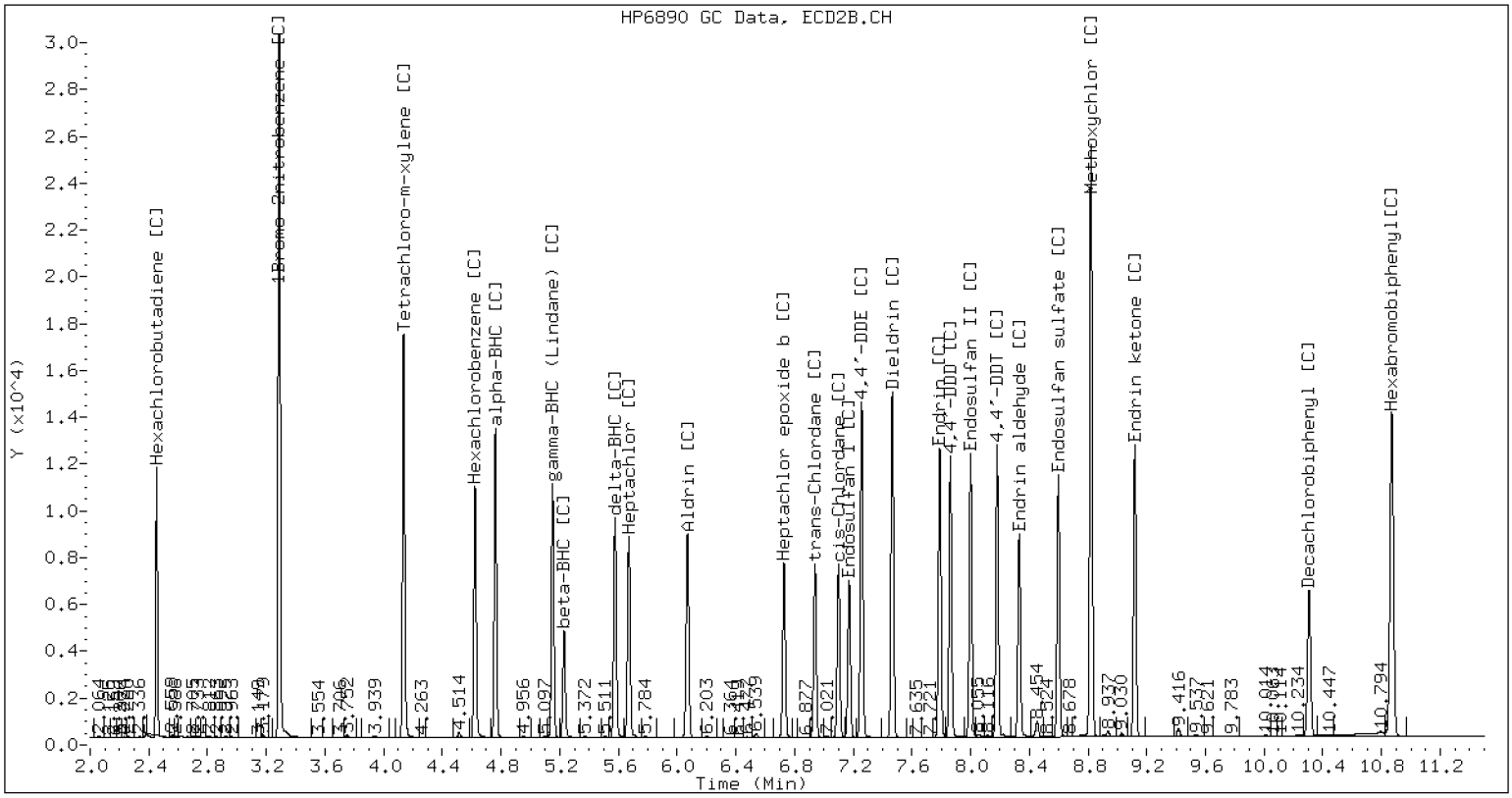


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041228.D SEQ-ICV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23050203.D	Calibration Date:	04/12/2023
Sequence:	SLE0106	Injection Date:	05/02/23
Lab Sample ID:	SLE0106-ICV1	Injection Time:	14:00
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
alpha-BHC	A	20.000	17.9	1.7493120	1.5659650		-10.5	+/-20	
alpha-BHC [2C]	A	20.000	17.8	1.6971320	1.5127530		-10.9	+/-20	
beta-BHC	A	20.000	17.2	0.6985426	0.6007490		-14.0	+/-20	
beta-BHC [2C]	A	20.000	17.3	0.6741427	0.5834104		-13.5	+/-20	
gamma-BHC (Lindane)	A	20.000	17.7	1.5372540	1.3633120		-11.3	+/-20	
gamma-BHC (Lindane) [2C]	A	20.000	17.8	1.4921	1.3293490		-10.9	+/-20	
delta-BHC	A	20.000	17.8	1.5838220	1.4133620		-10.8	+/-20	
delta-BHC [2C]	A	20.000	17.4	1.5107810	1.3118500		-13.2	+/-20	
Heptachlor	A	20.000	18.0	1.4227670	1.2801400		-10.0	+/-20	
Heptachlor [2C]	A	20.000	17.9	1.3085210	1.1724450		-10.4	+/-20	
Aldrin	A	20.000	18.1	1.4471840	1.3090880		-9.5	+/-20	
Aldrin [2C]	A	20.000	18.0	1.3583320	1.2253600		-9.8	+/-20	
Heptachlor Epoxide	A	20.000	17.2	1.3062650	1.1246540		-13.9	+/-20	
Heptachlor Epoxide [2C]	A	20.000	17.2	1.1956940	1.0308100		-13.8	+/-20	
trans-Chlordane (beta-Chlordane)	A	20.000	18.0	1.2781630	1.1472420		-10.2	+/-20	
trans-Chlordane (beta-Chlordane) [2C]	A	20.000	17.8	1.1465120	1.0207280		-11.0	+/-20	
cis-Chlordane (alpha-chlordane)	A	20.000	17.9	1.2830810	1.1488840		-10.5	+/-20	
cis-Chlordane (alpha-chlordane) [2C]	A	20.000	17.8	1.1290160	1.0043400		-11.0	+/-20	
Endosulfan I	A	20.000	18.2	1.1644720	1.0585270		-9.1	+/-20	
Endosulfan I [2C]	A	20.000	17.9	1.0187800	0.9109591		-10.6	+/-20	
4,4'-DDE	A	40.000	36.6	1.1619370	1.0618010		-8.6	+/-20	
4,4'-DDE [2C]	A	40.000	36.5	1.0629340	0.9698446		-8.8	+/-20	
Dieldrin	A	40.000	36.5	1.2323180	1.1233560		-8.8	+/-20	
Dieldrin [2C]	A	40.000	35.8	1.1166600	1.0007490		-10.4	+/-20	
Endrin	A	40.000	31.3	1.3825400	1.0804070		-21.9	+/-20	*
Endrin [2C]	A	40.000	31.3	1.6101570	1.2590140		-21.8	+/-20	*
Endosulfan II	A	40.000	34.3	1.2946390	1.1103320		-14.2	+/-20	
Endosulfan II [2C]	A	40.000	34.2	1.5210760	1.3014530		-14.4	+/-20	
4,4'-DDD	A	40.000	35.1	1.2408670	1.0882740		-12.3	+/-20	
4,4'-DDD [2C]	A	40.000	34.0	1.4718860	1.2514160		-15.0	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23050203.D	Calibration Date:	04/12/2023
Sequence:	SLE0106	Injection Date:	05/02/23
Lab Sample ID:	SLE0106-ICV1	Injection Time:	14:00
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Endrin Aldehyde	A	40.000	34.3	0.9880472	0.8466115		-14.3	+/-20	
Endrin Aldehyde [2C]	A	40.000	34.4	1.0998080	0.9445699		-14.1	+/-20	
4,4'-DDT	A	40.000	34.4	1.3364530	1.1481980		-14.1	+/-20	
4,4'-DDT [2C]	A	40.000	34.2	1.4849930	1.2696620		-14.5	+/-20	
Endosulfan Sulfate	A	40.000	33.4	1.2205710	1.0181090		-16.6	+/-20	
Endosulfan Sulfate [2C]	A	40.000	33.8	1.4006150	1.1825270		-15.6	+/-20	
Endrin Ketone	A	40.000	33.7	1.3927500	1.1738660		-15.7	+/-20	
Endrin Ketone [2C]	A	40.000	34.3	1.5294950	1.3100730		-14.3	+/-20	
Methoxychlor	A	200.00	159	0.5725617	0.4552460		-20.5	+/-20	*
Methoxychlor [2C]	A	200.00	157	0.6367416	0.4983234		-21.7	+/-20	*
Hexachlorobutadiene	A	20.000	17.4	1.8042650	1.5675810		-13.1	+/-20	
Hexachlorobutadiene [2C]	A	20.000	17.3	1.5408270	1.3361080		-13.3	+/-20	
Hexachlorobenzene	A	20.000	17.2	1.5480310	1.3295080		-14.1	+/-20	
Hexachlorobenzene [2C]	A	20.000	17.6	1.4821210	1.3044330		-12.0	+/-20	
Decachlorobiphenyl	A	40.000	31.6	0.9435985	0.7446219		-21.1	+/-20	
Decachlorobiphenyl [2C]	A	40.000	33.8	0.9656083	0.8148908		-15.6	+/-20	
Tetrachlorometaxylene	A	40.000	35.6	1.1193850	0.9964366		-11.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.1000560	0.9857508		-10.4	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050203.D
Data file 2: /20230502.b/B20230502.b/23050203.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SLE0106-ICV1
Client ID:
Injection Date: 02-MAY-2023 14:00
Report Date: 05/05/2023 15:03
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.327	-0.006	241262	4.752	-0.010	253121	17.90	17.83	0.4	alpha-BHC N
4.711	-0.006	92555	5.219	-0.011	97619	17.20	17.31	0.6	beta-BHC N
4.895	-0.006	217751	5.566	-0.011	219505	17.85	17.37	2.7	delta-BHC N
4.630	-0.007	210040	5.141	-0.011	222433	17.74	17.82	0.5	gamma-BHC (Lindane) N
5.118	-0.006	197226	5.660	-0.011	196179	18.00	17.92	0.4	Heptachlor N
5.441	-0.007	201686	6.059	-0.013	205033	18.09	18.04	0.3	Aldrin N
6.117	-0.008	173271	6.716	-0.013	172480	17.22	17.24	0.1	Heptachlor epoxide b N
6.559	-0.008	163083	7.160	-0.012	152426	18.18	17.88	1.6	Endosulfan I N
6.819	-0.009	346142	7.455	-0.011	334900	36.46	35.85	1.7	Dieldrin N
6.482	-0.007	327175	7.246	-0.011	324558	36.55	36.50	0.2	4,4'-DDE N
7.070	-0.008	278106	7.778	-0.012	263795	31.26	31.28	0.1	Endrin N
7.306	-0.008	285809	7.989	-0.012	272687	34.31	34.22	0.2	Endosulfan II N
7.129	-0.007	280131	7.851	-0.011	262203	35.08	34.01	3.1	4,4'-DDD N
8.168	-0.009	262070	8.588	-0.010	247769	33.37	33.77	1.2	Endosulfan sulfate N
7.423	-0.008	295556	8.170	-0.011	266026	34.37	34.20	0.5	4,4'-DDT N
7.912	-0.008	585921	8.810	-0.012	522056	159.02	156.52	1.6	Methoxychlor N
8.443	-0.009	302163	9.109	-0.010	274493	33.71	34.26	1.6	Endrin ketone N
7.734	-0.009	217925	8.321	-0.010	197911	34.27	34.35	0.2	Endrin aldehyde N
6.259	-0.007	176751	6.928	-0.011	170793	17.95	17.81	0.8	trans-Chlordane N
6.405	-0.008	177004	7.088	-0.012	168051	17.91	17.79	0.7	cis-Chlordane N
2.304	-0.005	241511	2.448	-0.005	223564	17.38	17.34	0.2	Hexachlorobutadiene N
4.168	-0.007	204832	4.613	-0.009	218264	17.18	17.60	2.4	Hexachlorobenzene
3.813	-0.006	307034	4.128	-0.008	329881	35.61	35.84	0.7	Tetrachloro-m-xylene
9.359	-0.007	191672	10.296	-0.010	170740	31.57	33.76	6.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

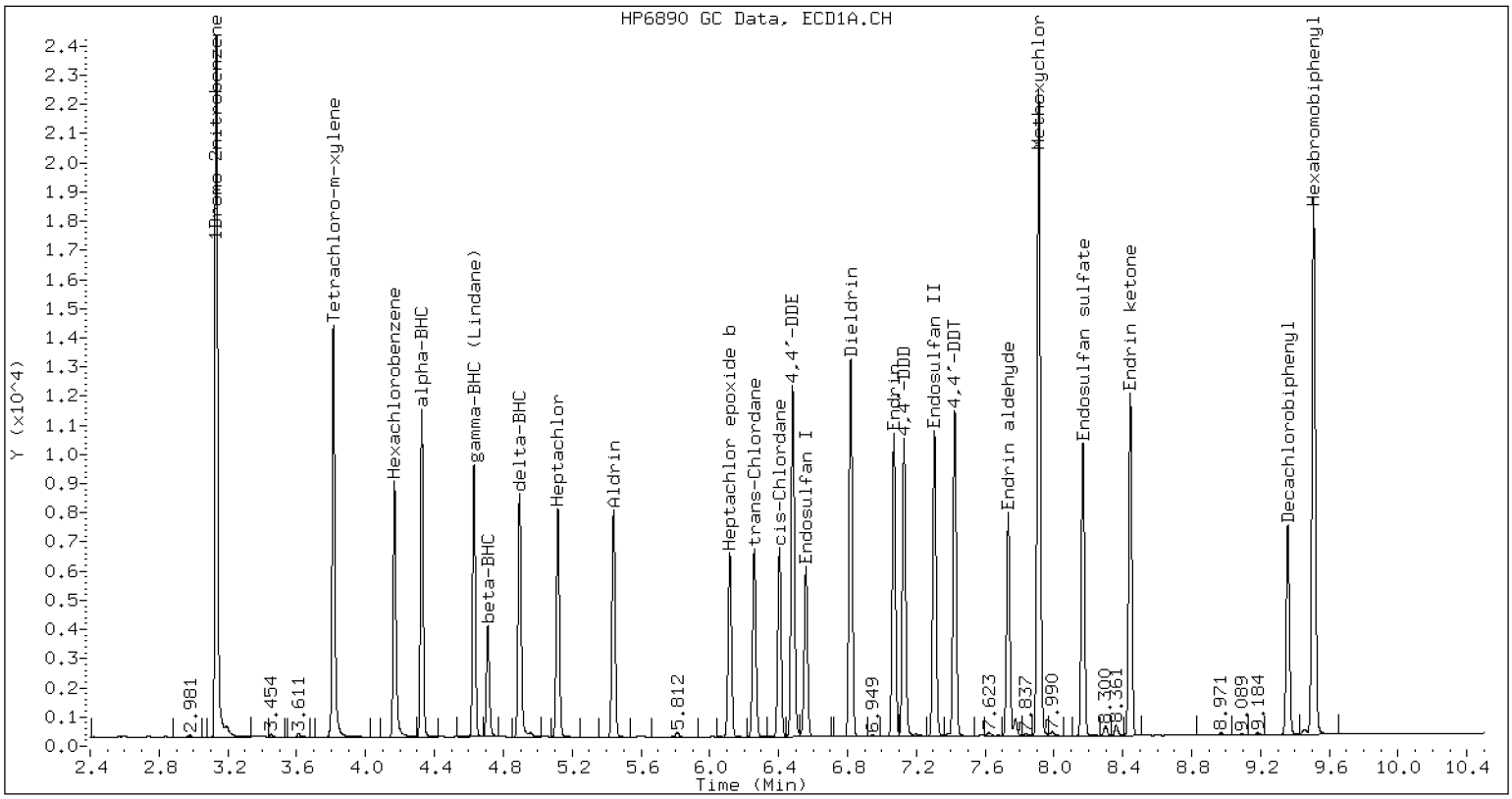
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	616264	-33.9
Hexabromobiphenyl	745426	514817	-30.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	669299	-46.4
Hexabromobiphenyl	754634	419050	-44.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

/20230502.b/23050203.D SLE0106-ICV1 STX-CLP 02-MAY-2023 14:00 1ul



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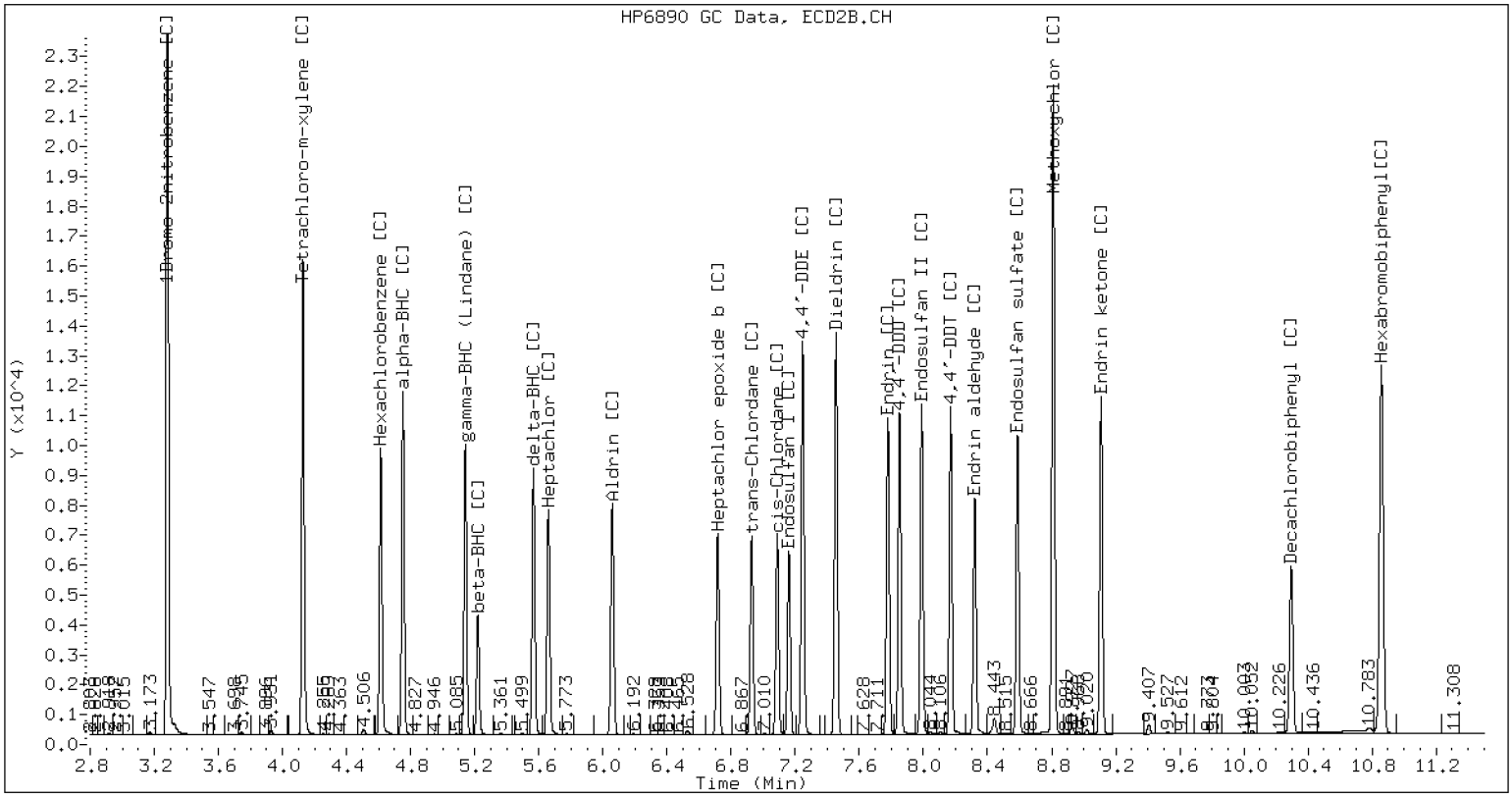
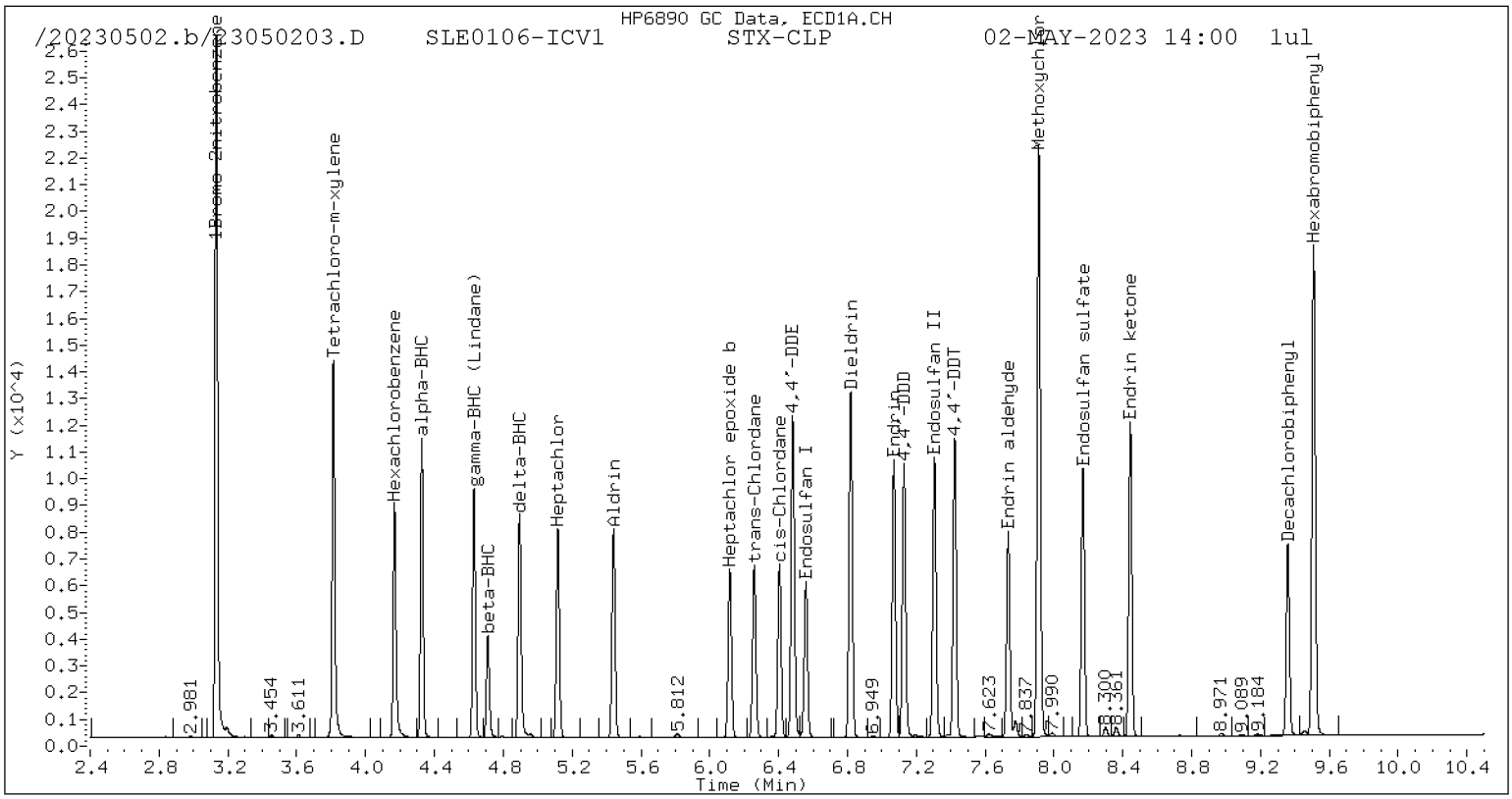
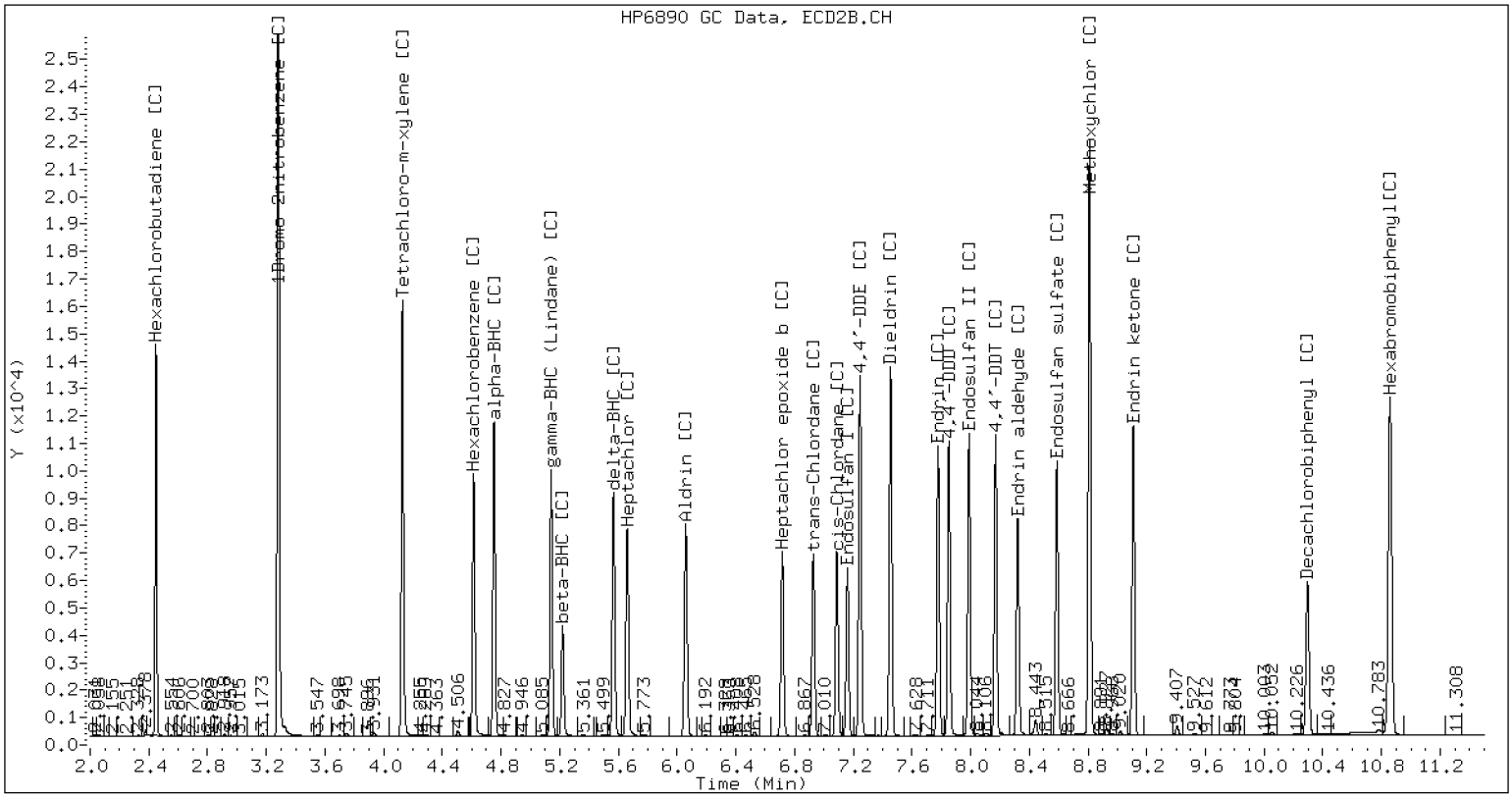


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

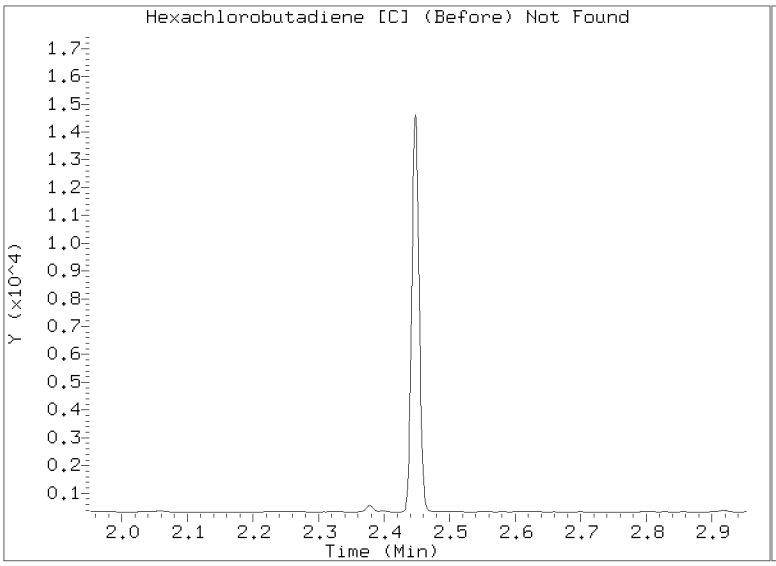
/20230502.b/B20230502.b/23050203.D SLE0106-ICV1 CLP2

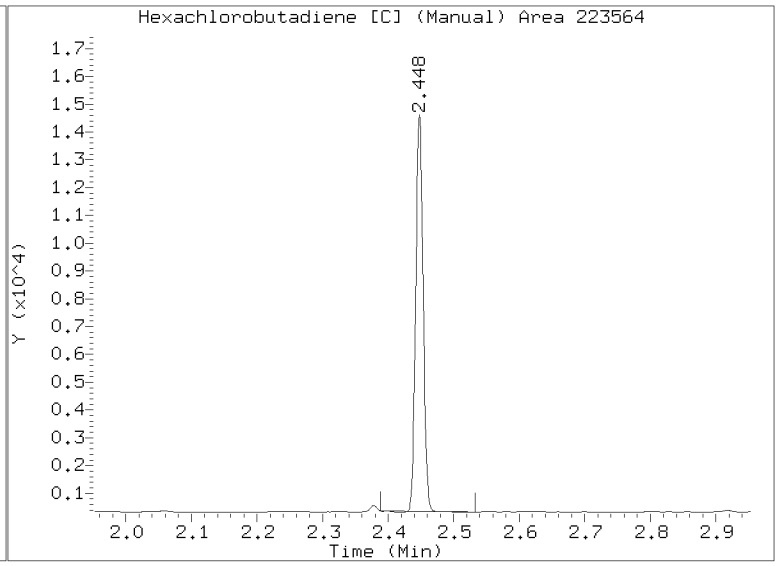


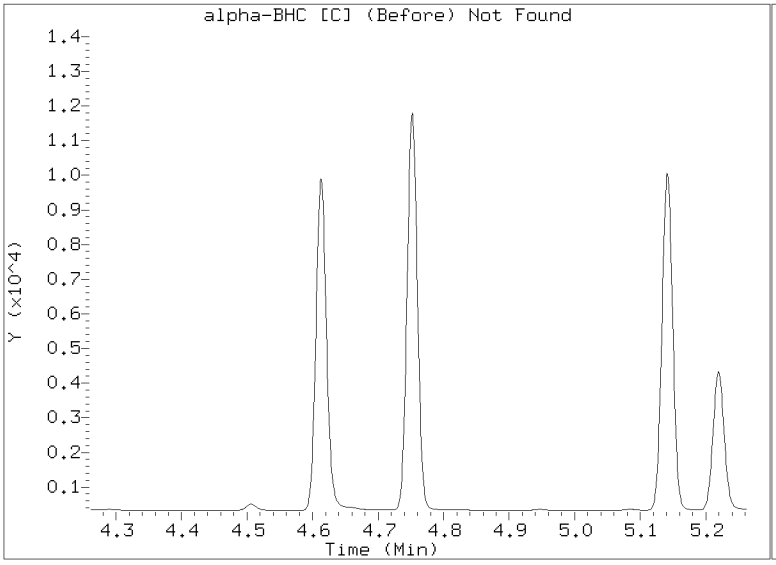
CLP-2 Manual Integration: YES

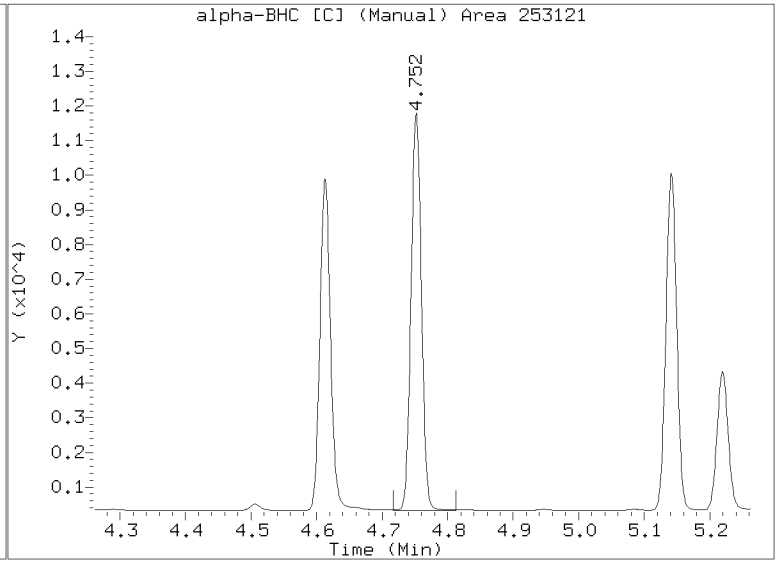
Manual Peak Adjustment Report, CLP-2

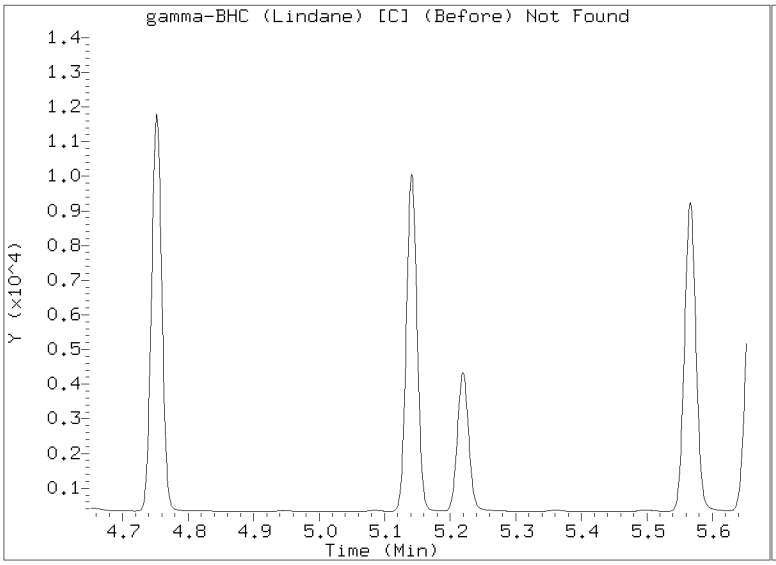
Datafile: /20230502.b/B20230502.b/23050203.D
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

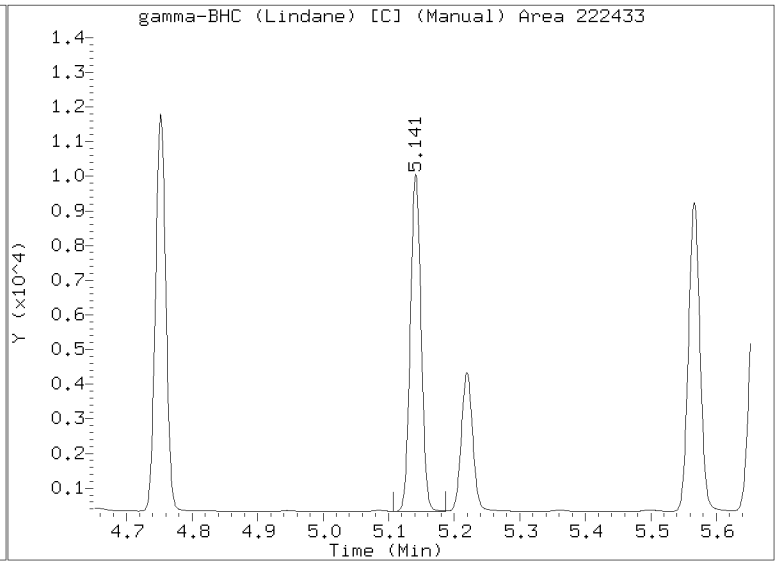






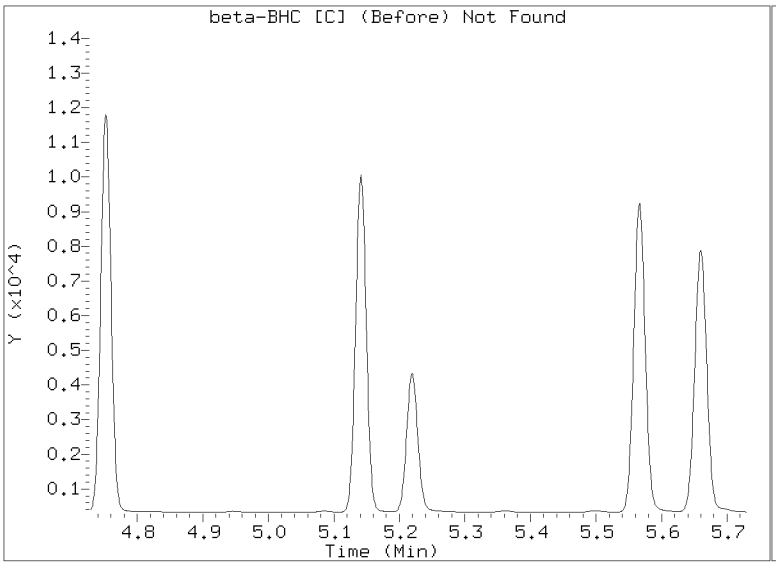


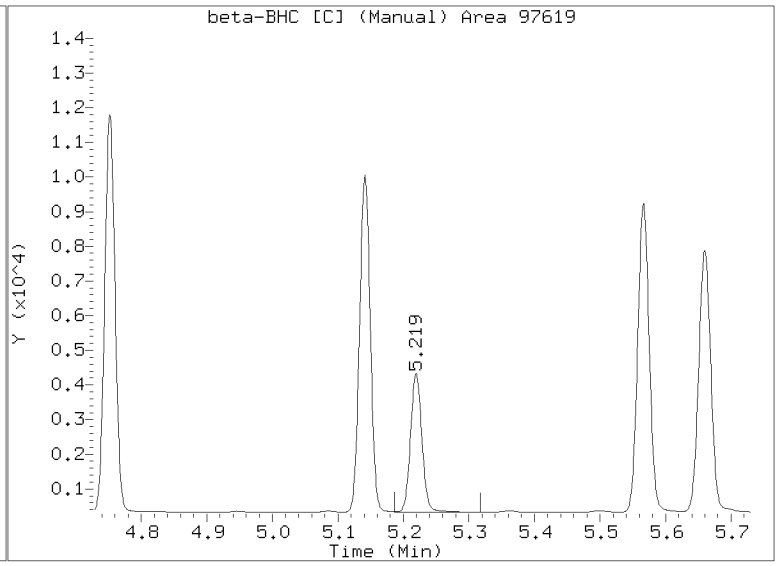


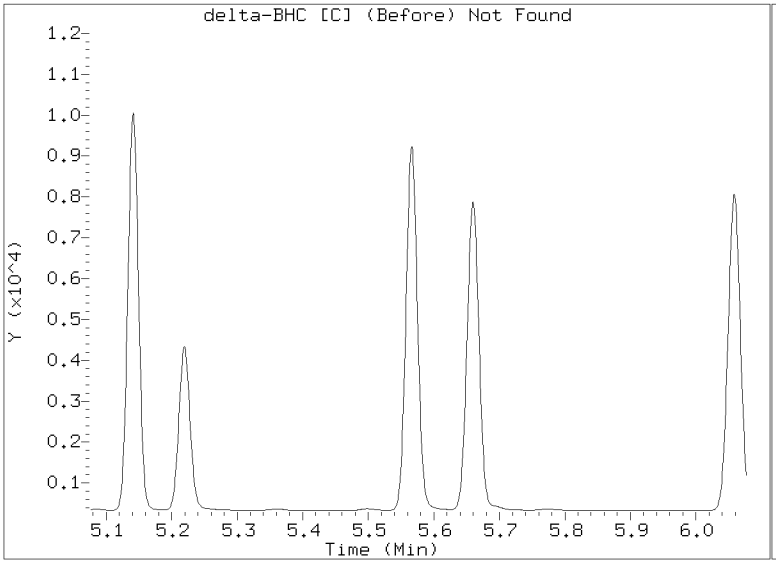


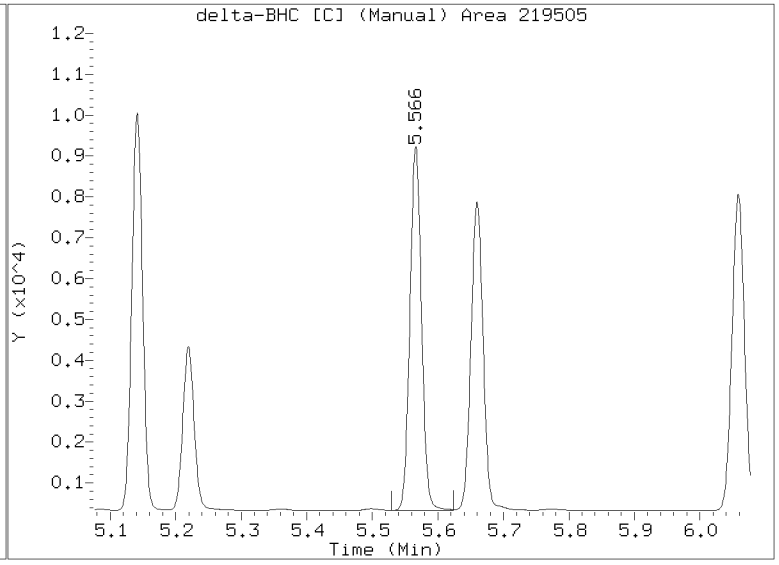
Manual Peak Adjustment Report, CLP-2

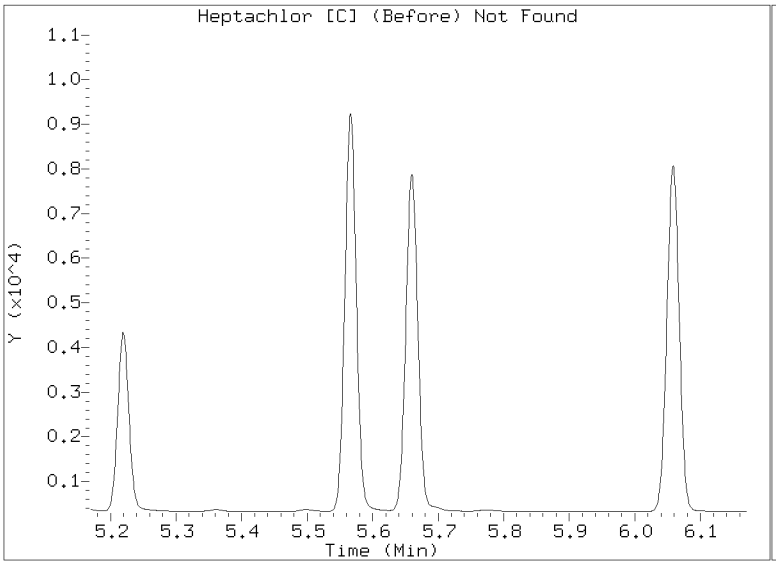
Datafile: /20230502.b/B20230502.b/23050203.D
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

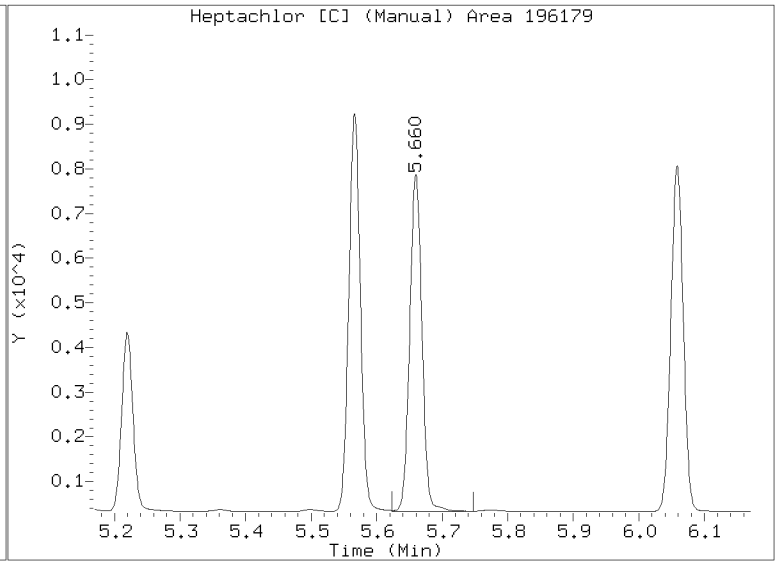






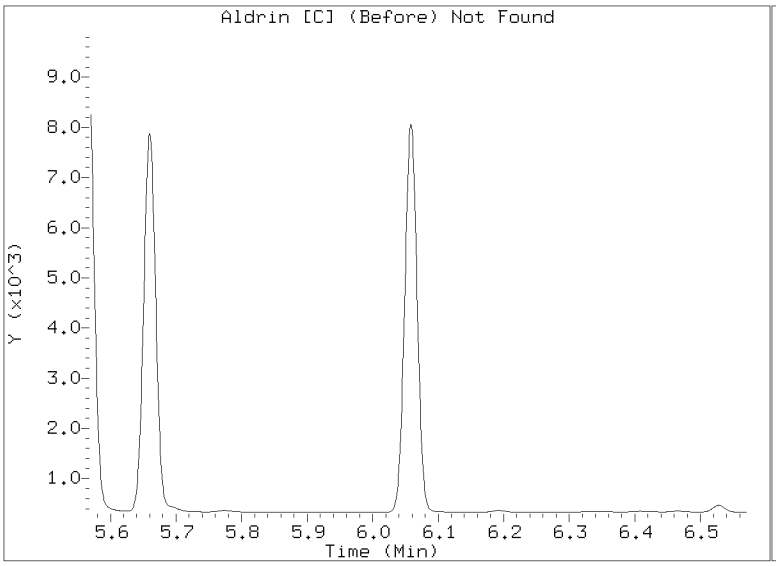


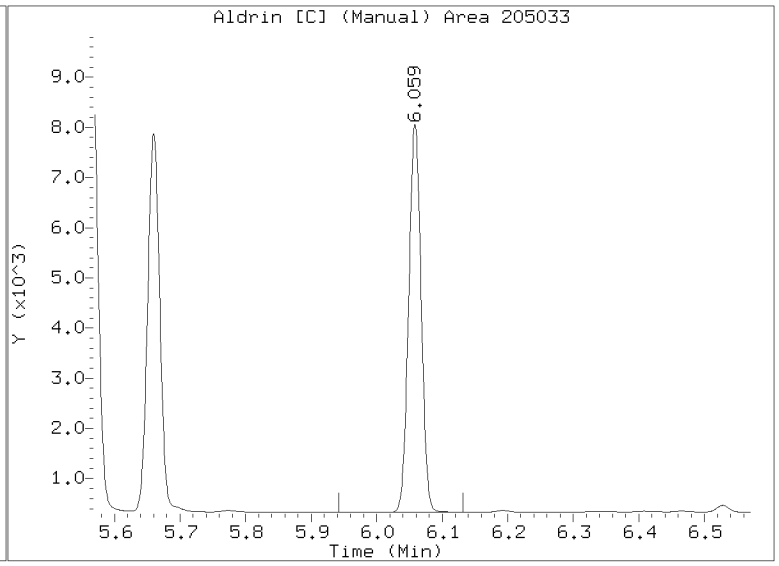


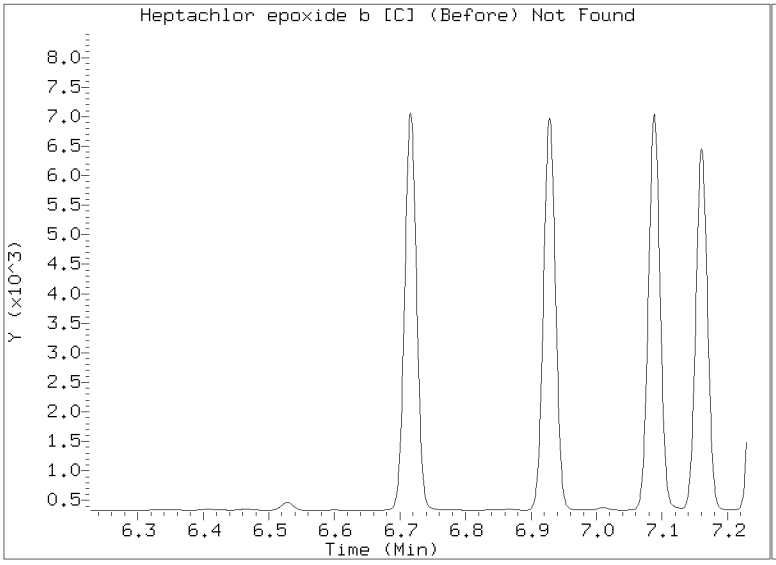


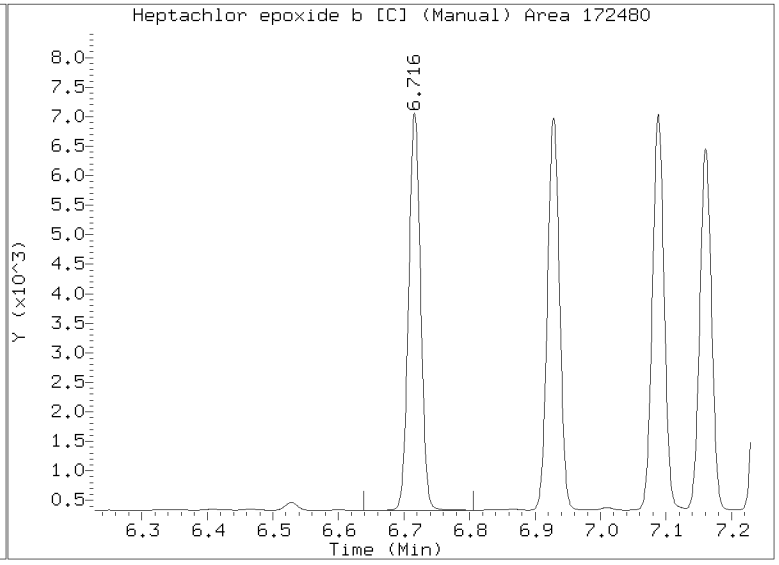
Manual Peak Adjustment Report, CLP-2

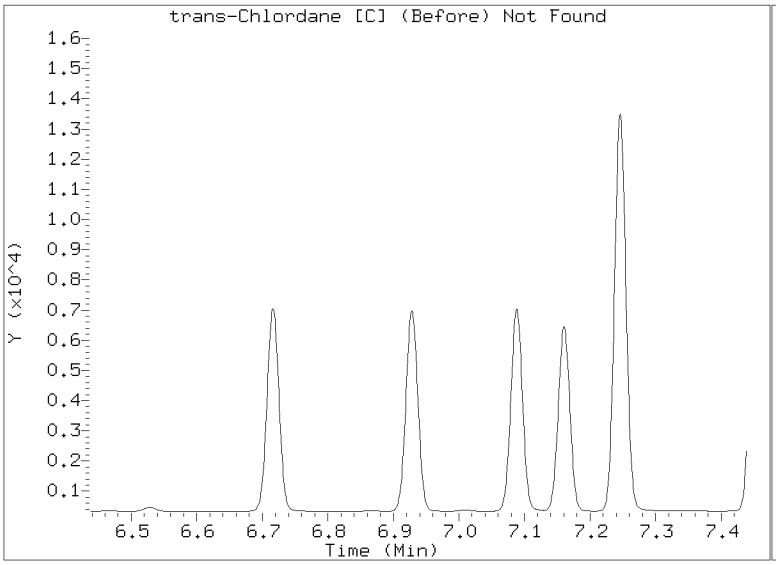
Datafile: /20230502.b/B20230502.b/23050203.D
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

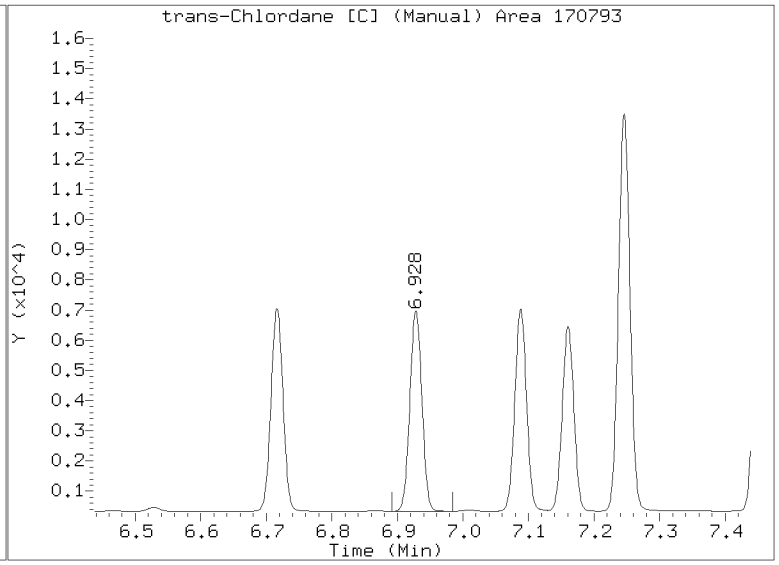












Manual Peak Adjustment Report, CLP-2

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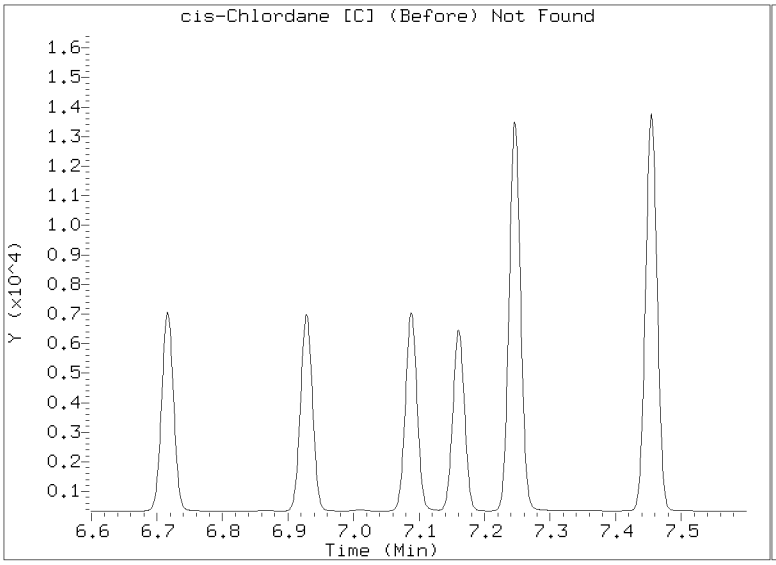
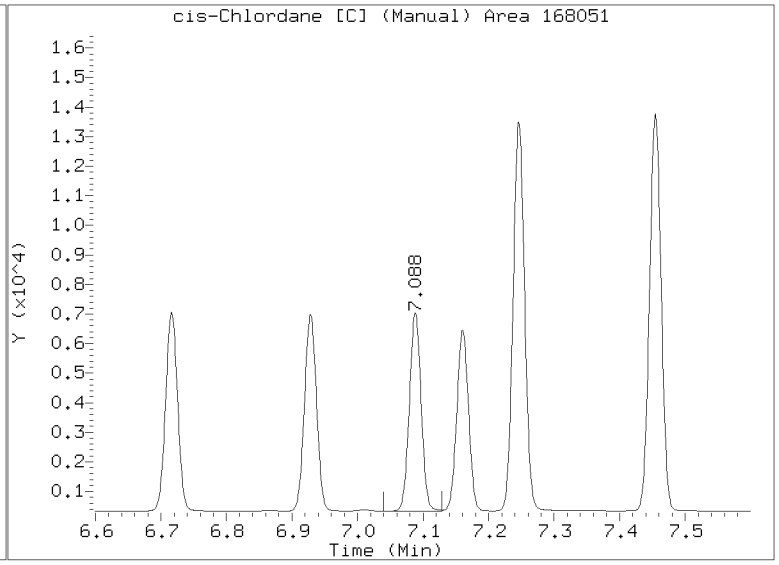
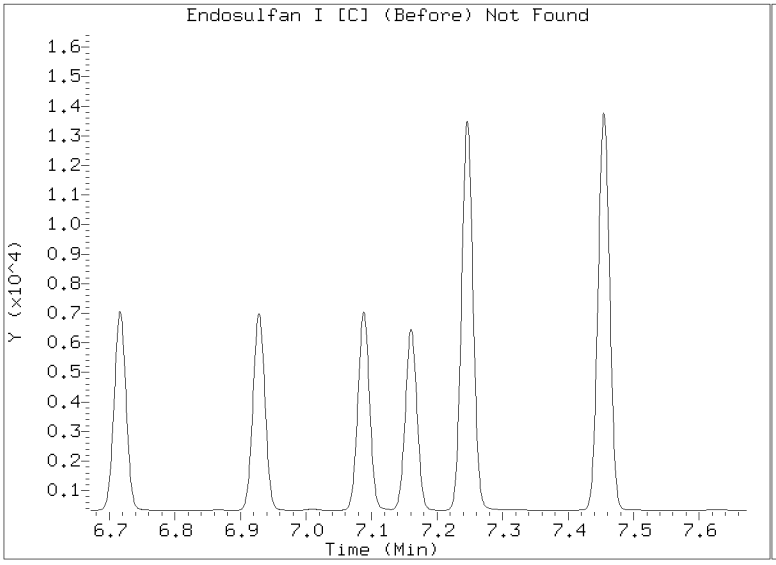
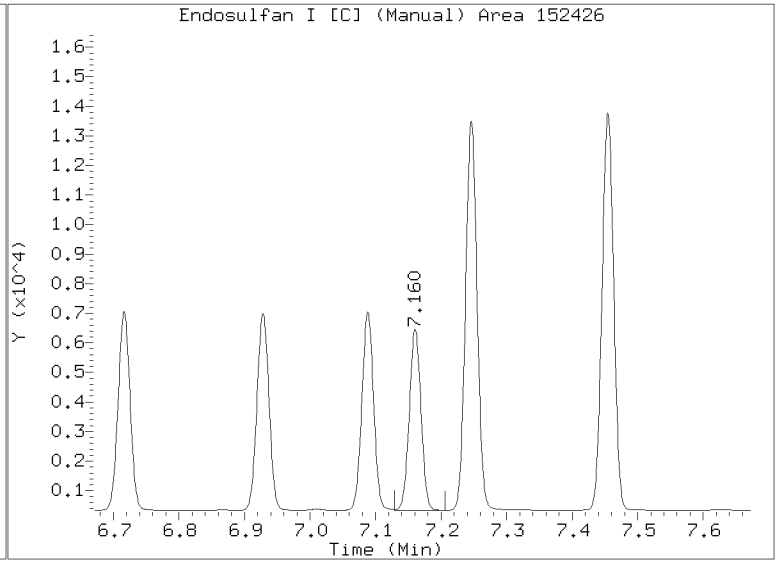
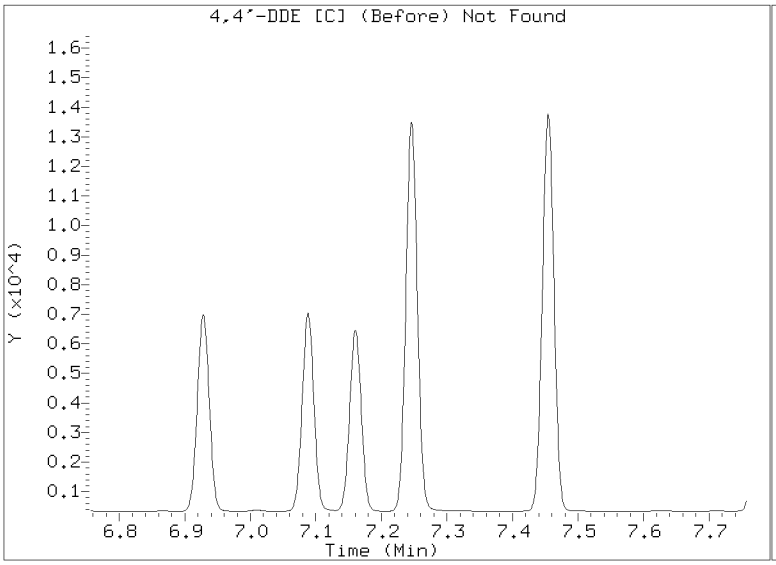
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

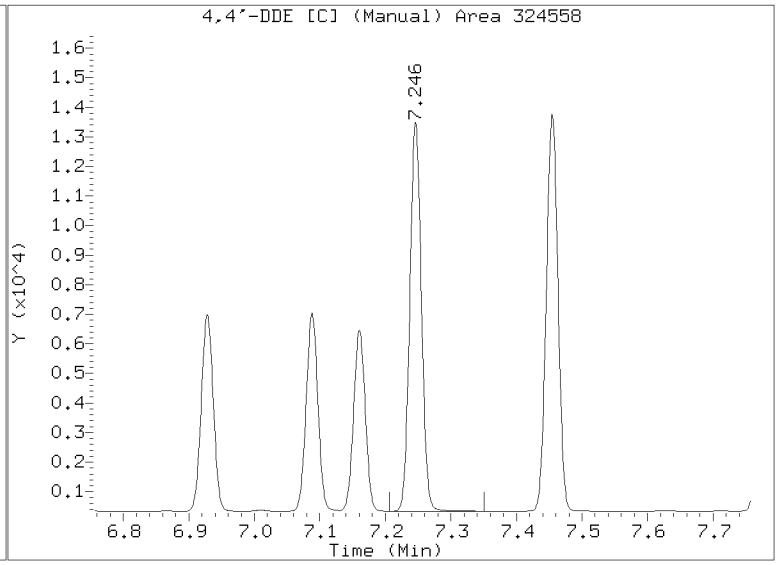












Manual Peak Adjustment Report, CLP-2

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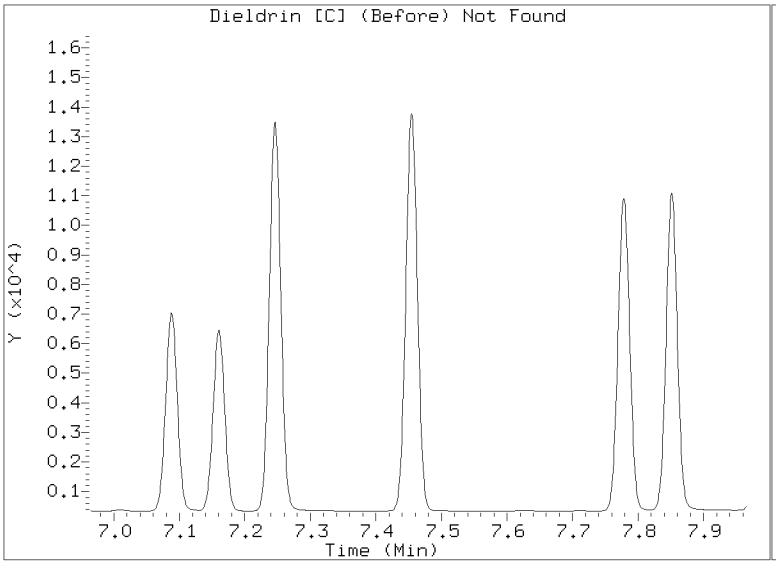
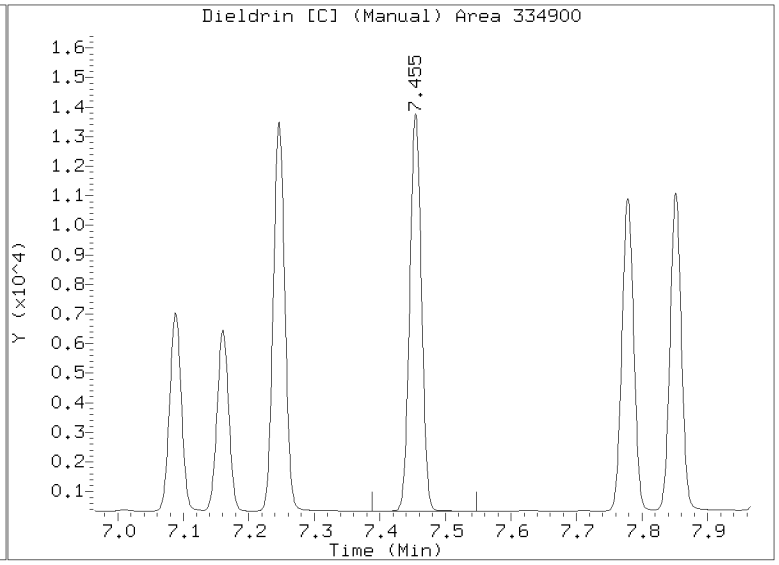
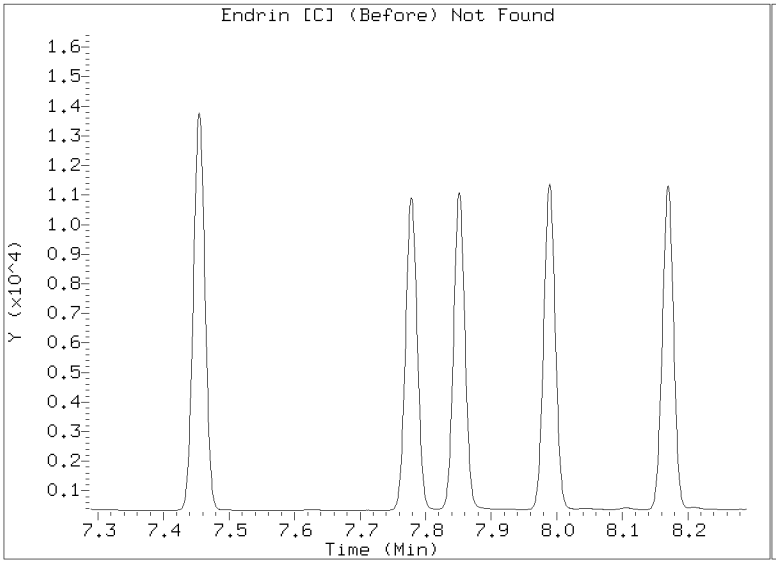
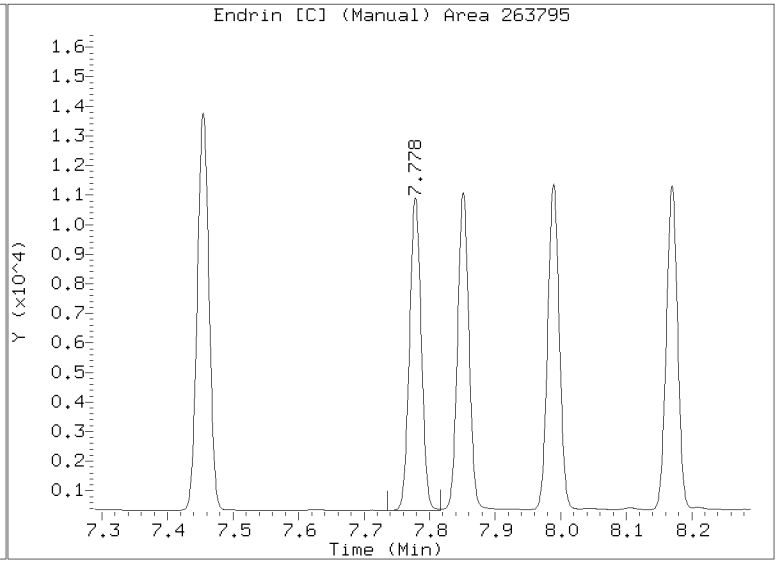
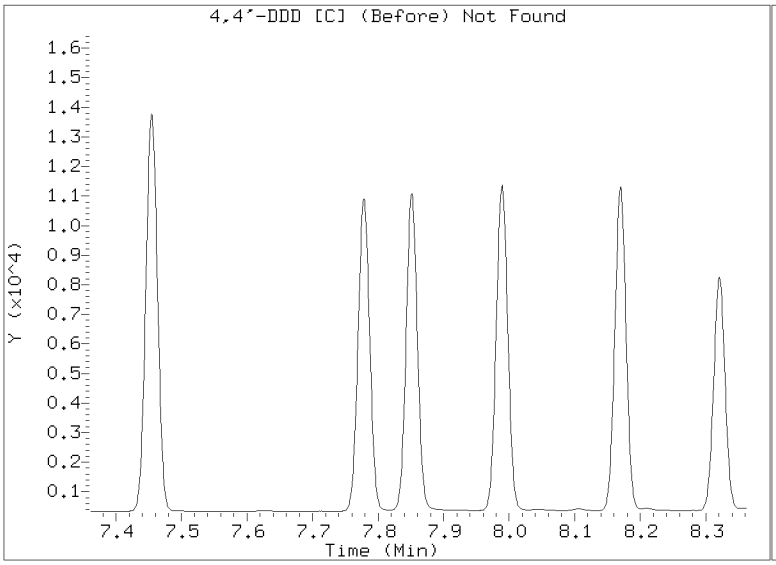
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

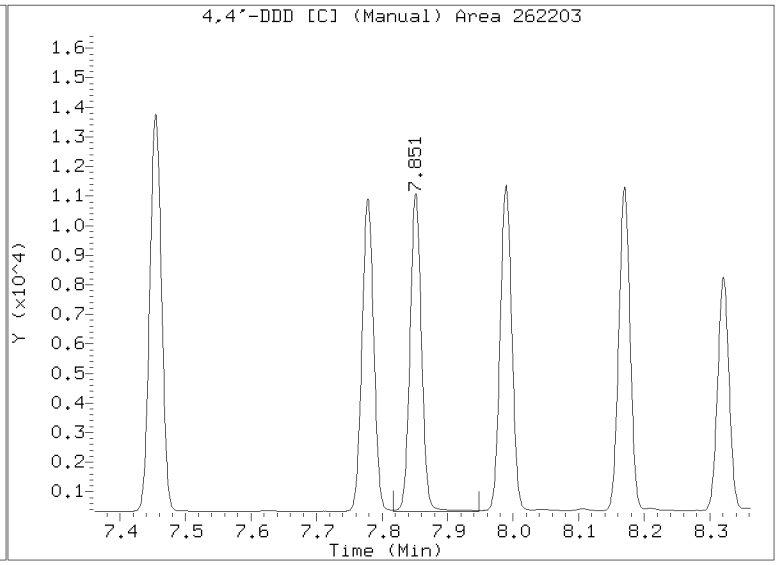






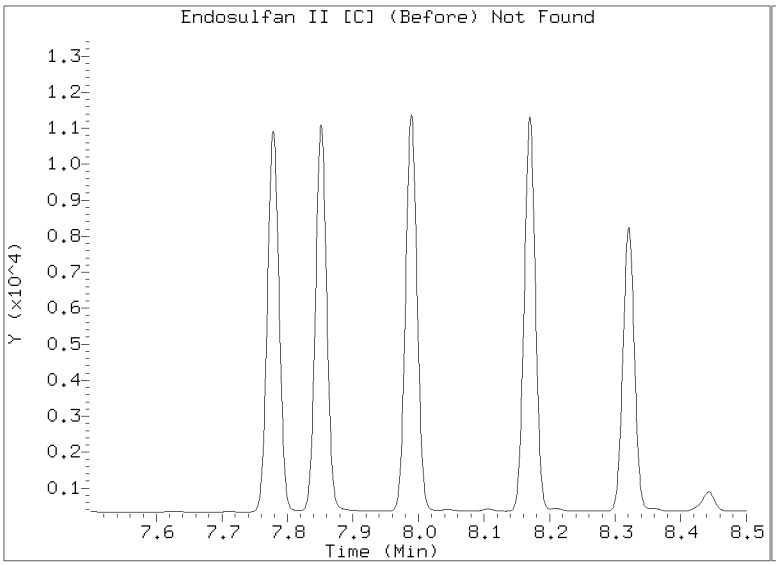


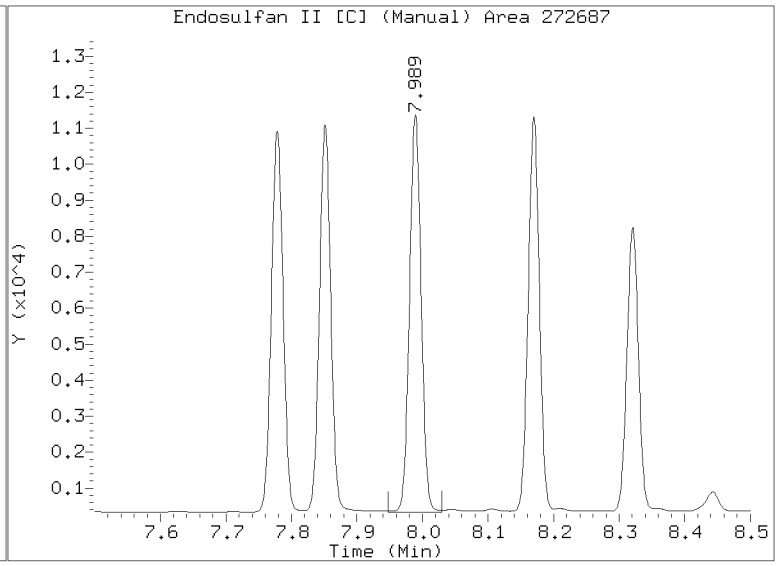


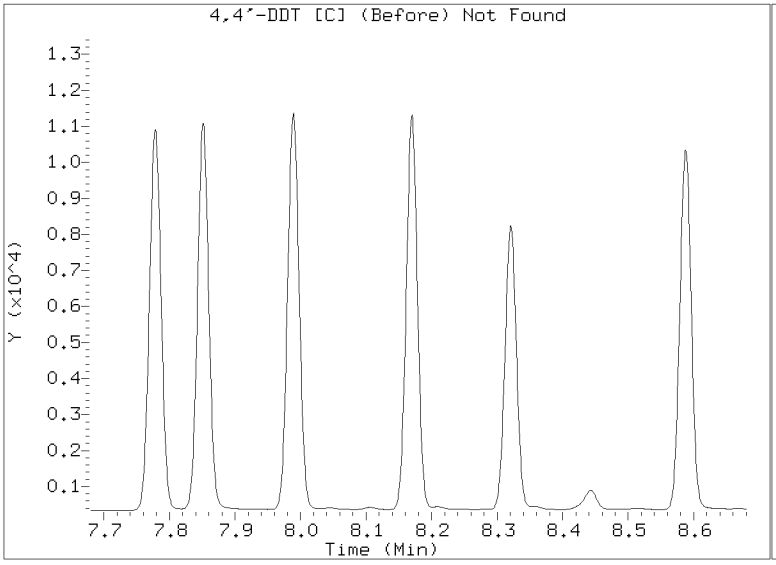


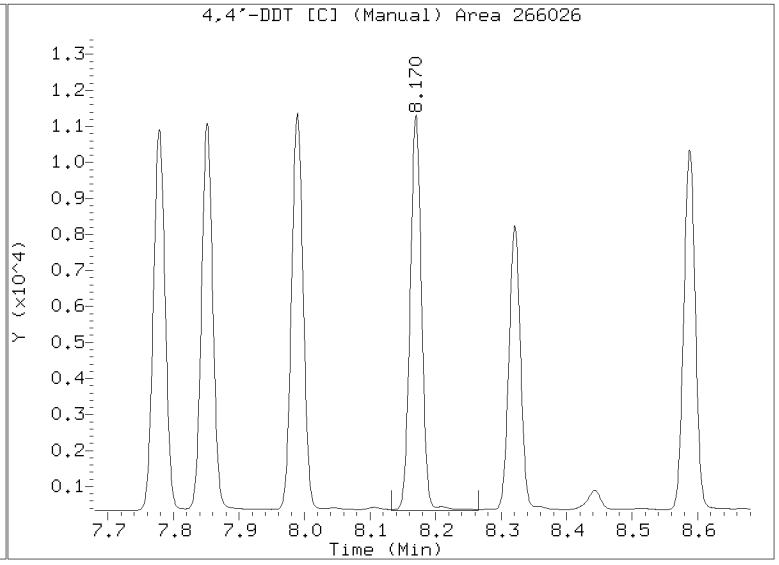
Manual Peak Adjustment Report, CLP-2

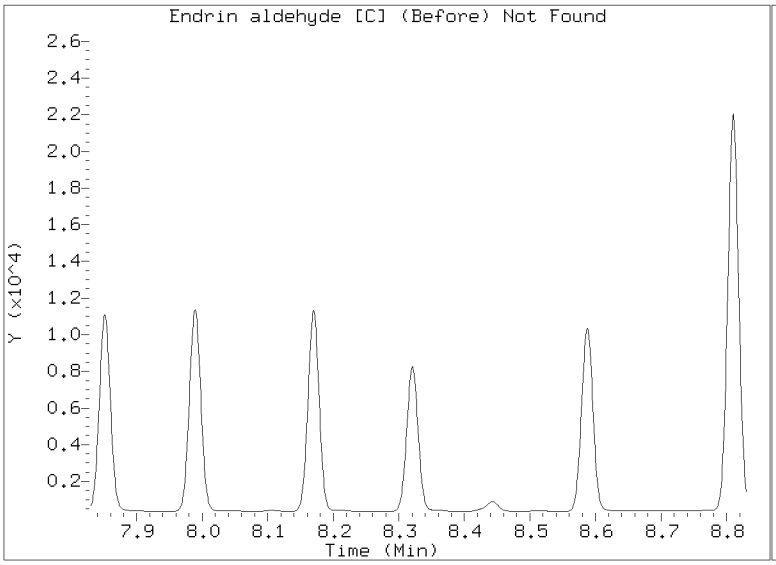
Datafile: /20230502.b/B20230502.b/23050203.D
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

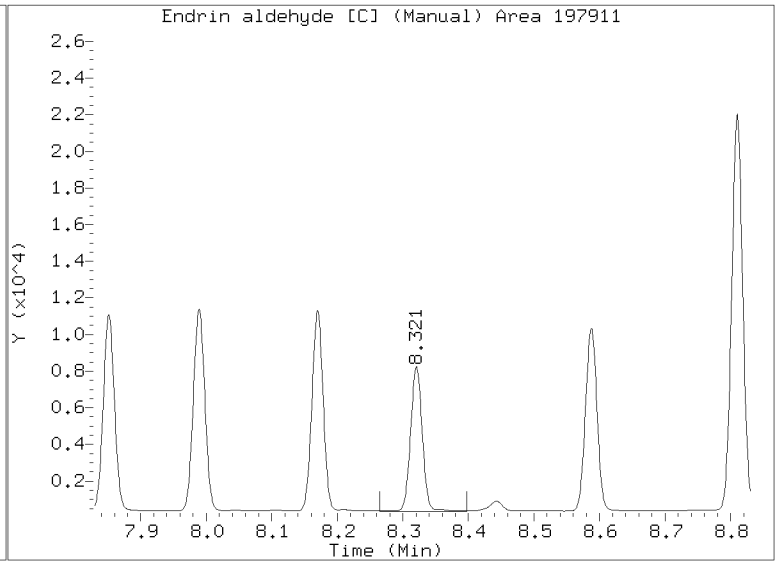






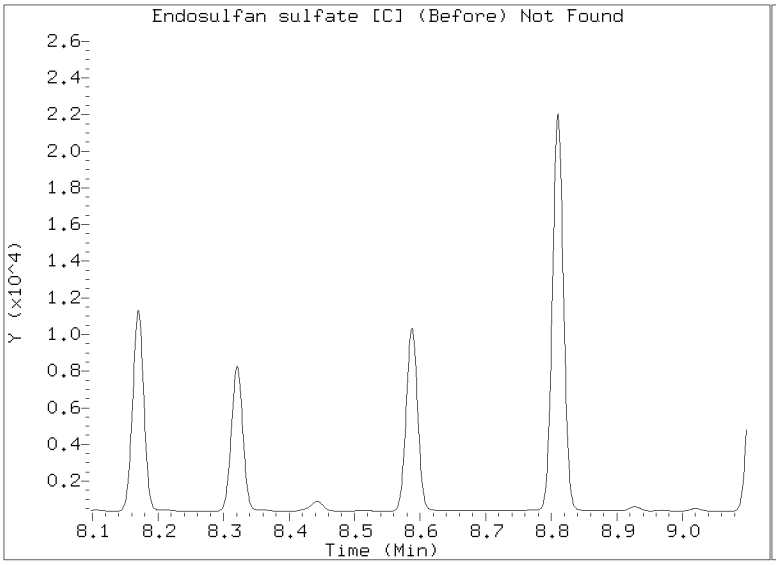


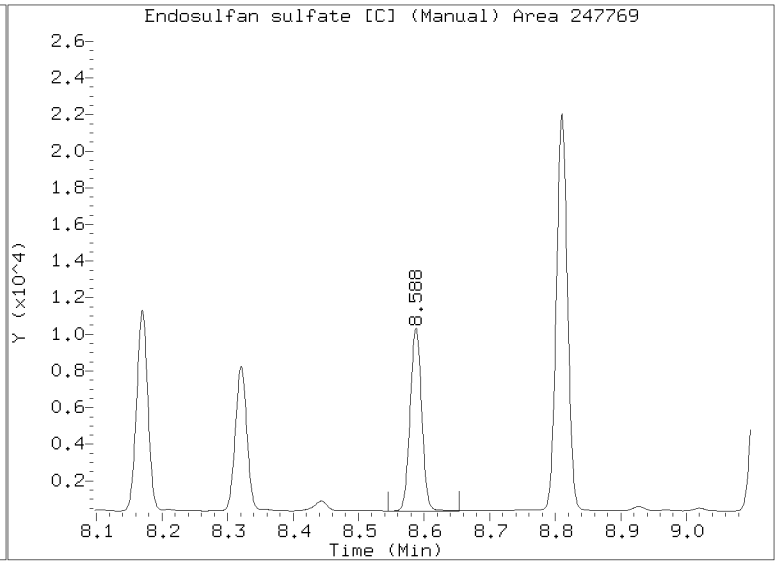


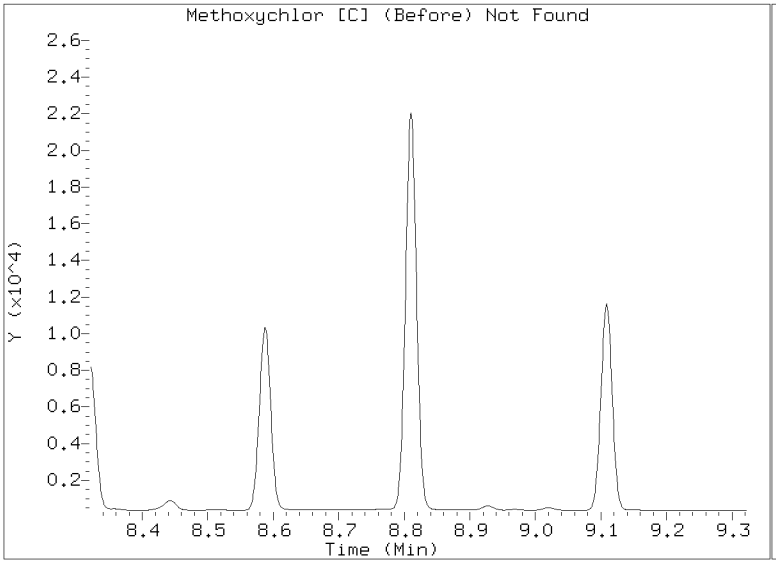


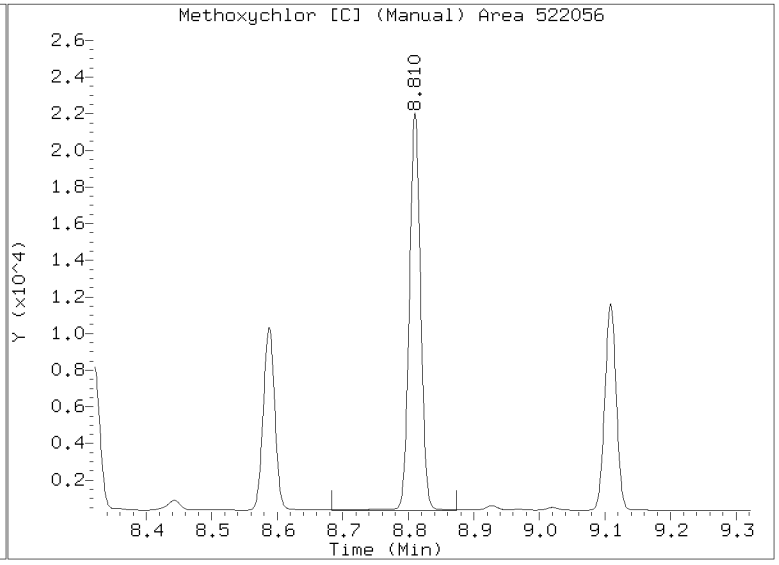
Manual Peak Adjustment Report, CLP-2

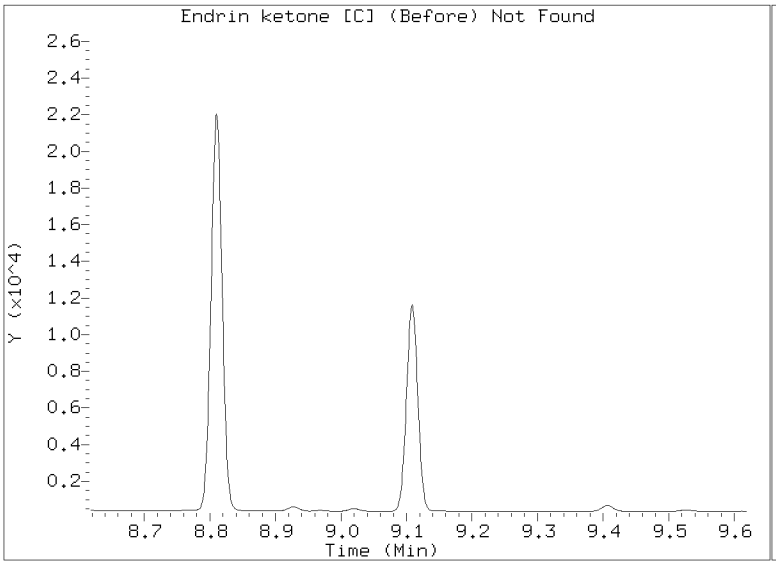
Datafile: /20230502.b/B20230502.b/23050203.D
Injection Date: 02-MAY-2023 14:00
Lab ID:SLE0106-ICV1 Client ID:

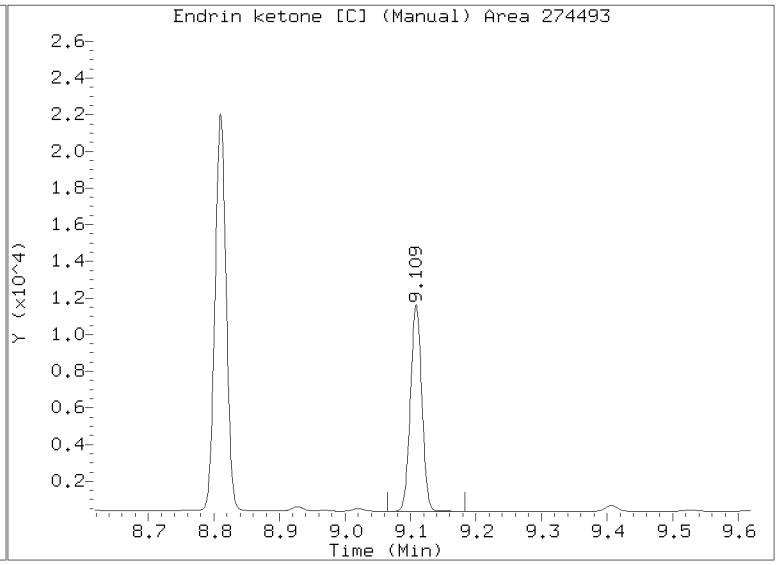












Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23041235.D	Calibration Date:	04/12/2023
Sequence:	SLD0187	Injection Date:	04/13/23
Lab Sample ID:	SLD0187-CCV1	Injection Time:	01:04
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Hexachlorobenzene	A	20.000	17.7	1.5480310	1.3705910		-11.5	+/-20	
Hexachlorobenzene [2C]	A	20.000	17.6	1.4821210	1.3041330		-12.0	+/-20	
Decachlorobiphenyl	A	40.000	31.5	0.9435985	0.7437408		-21.2	+/-20	*
Decachlorobiphenyl [2C]	A	40.000	33.7	0.9656083	0.8132911		-15.8	+/-20	
Tetrachlorometaxylene	A	40.000	35.5	1.1193850	0.9929160		-11.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.1000560	0.9804321		-10.9	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230412.b/23041235.D
Data file 2: /20230412.b/B20230412.b/23041235.D
Method: \20230412.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CCV1
Client ID:
Injection Date: 13-APR-2023 01:04
Report Date: 04/14/2023 08:21
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.333	0.000	208008	4.761	-0.001	287888	18.06	18.02	0.2	alpha-BHC
4.717	0.000	79862	5.229	-0.001	109669	17.36	17.28	0.5	beta-BHC
4.902	0.001	188433	5.576	-0.001	237187	18.07	16.67	8.0	delta-BHC
4.636	-0.001	182247	5.151	-0.001	252117	18.00	17.94	0.3	gamma-BHC (Lindane)
5.124	0.000	169287	5.670	-0.001	224742	18.07	18.24	0.9	Heptachlor
5.448	0.000	171419	6.070	-0.001	229274	17.99	17.93	0.3	Aldrin
6.124	-0.001	148660	6.728	-0.001	192857	17.28	17.13	0.9	Heptachlor epoxide b
6.566	-0.001	138285	7.171	-0.001	170414	18.03	17.76	1.5	Endosulfan I
6.827	-0.001	293527	7.465	-0.001	375070	36.17	35.67	1.4	Dieldrin
6.489	-0.000	275619	7.256	-0.001	359780	36.02	35.95	0.2	4,4'-DDE
7.078	-0.000	245317	7.788	-0.002	307967	32.47	32.73	0.8	Endrin
7.313	-0.001	244401	7.999	-0.002	305137	34.55	34.32	0.6	Endosulfan II
7.136	0.000	235703	7.861	-0.001	297615	34.76	34.60	0.5	4,4'-DDD
8.177	-0.000	226454	8.596	-0.002	280518	33.95	34.27	0.9	Endosulfan sulfate
7.430	-0.001	252702	8.179	-0.002	304879	34.60	35.13	1.5	4,4'-DDT
7.918	-0.002	503978	8.819	-0.003	618699	161.08	166.25	3.2	Methoxychlor
8.451	-0.001	257108	9.118	-0.001	308074	33.78	34.46	2.0	Endrin ketone
7.742	-0.001	185692	8.330	-0.001	219950	34.39	34.22	0.5	Endrin aldehyde
6.266	-0.000	150597	6.938	-0.001	190549	17.89	17.65	1.4	trans-Chlordane
6.413	-0.000	150637	7.099	-0.001	186807	17.83	17.57	1.4	cis-Chlordane
2.309	-0.000	206970	2.453	-0.000	178864	17.42	12.33	34.2	Hexachlorobutadiene
4.175	-0.000	180515	4.622	-0.000	245593	17.71	17.60	0.6	Hexachlorobenzene
3.820	0.001	261546	4.136	-0.000	369268	35.48	35.65	0.5	Tetrachloro-m-xylene
9.366	-0.000	162565	10.304	-0.002	190132	31.53	33.69	6.6	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

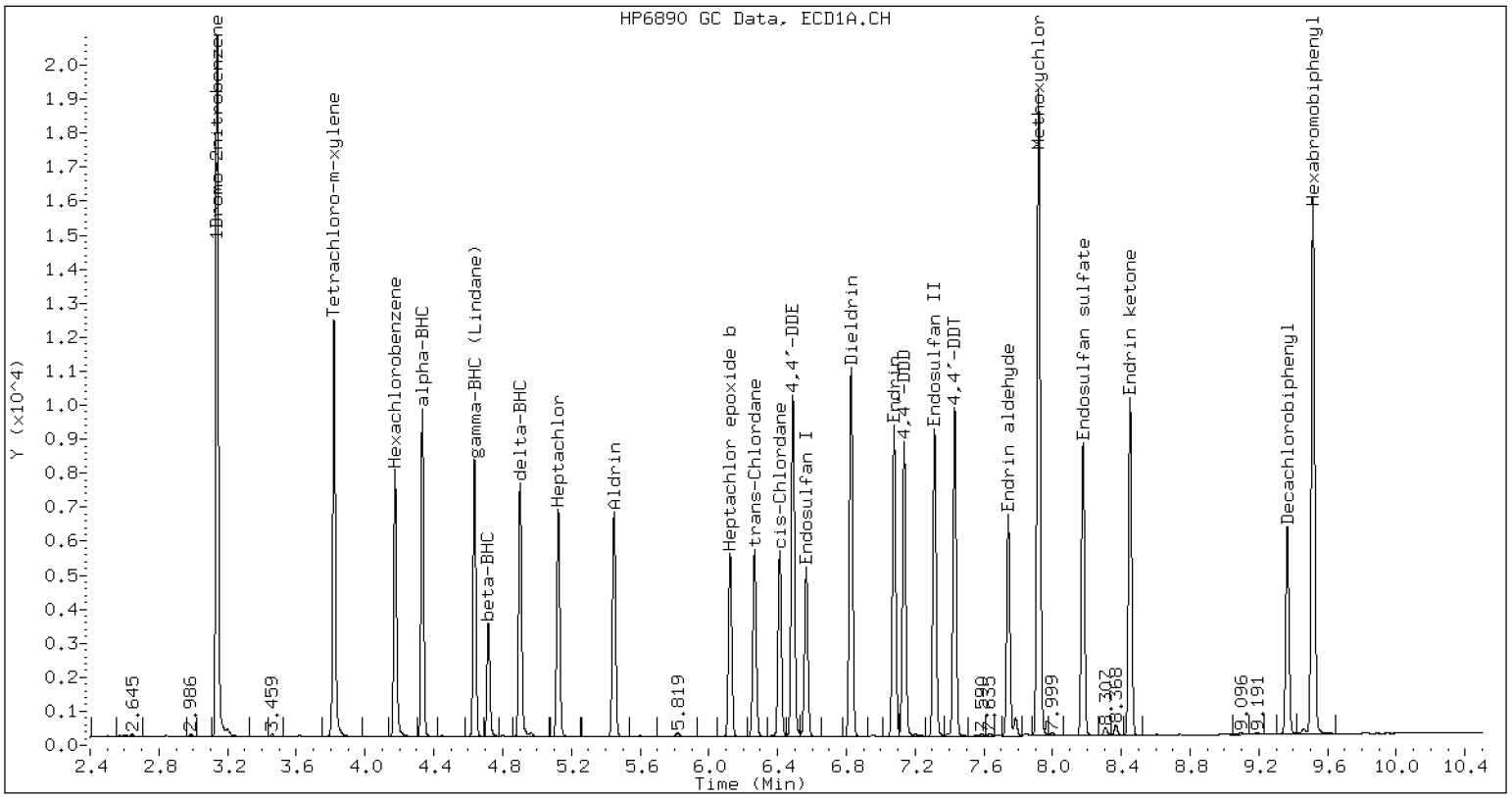
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	864333	526824	-39.0
Hexabromobiphenyl	663237	437155	-34.1

Column 2

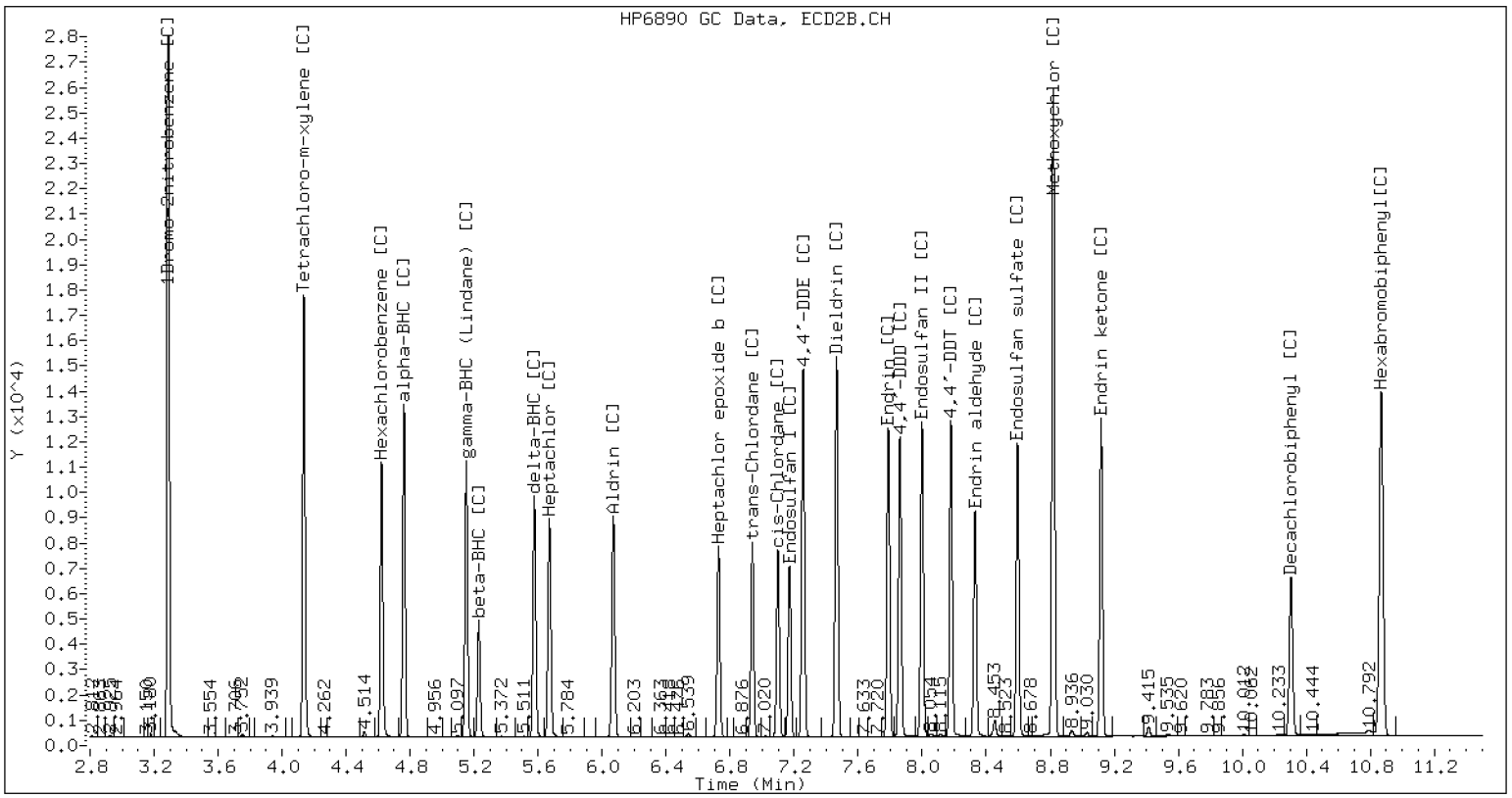
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1480846	753276	-49.1
Hexabromobiphenyl	870561	467562	-46.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

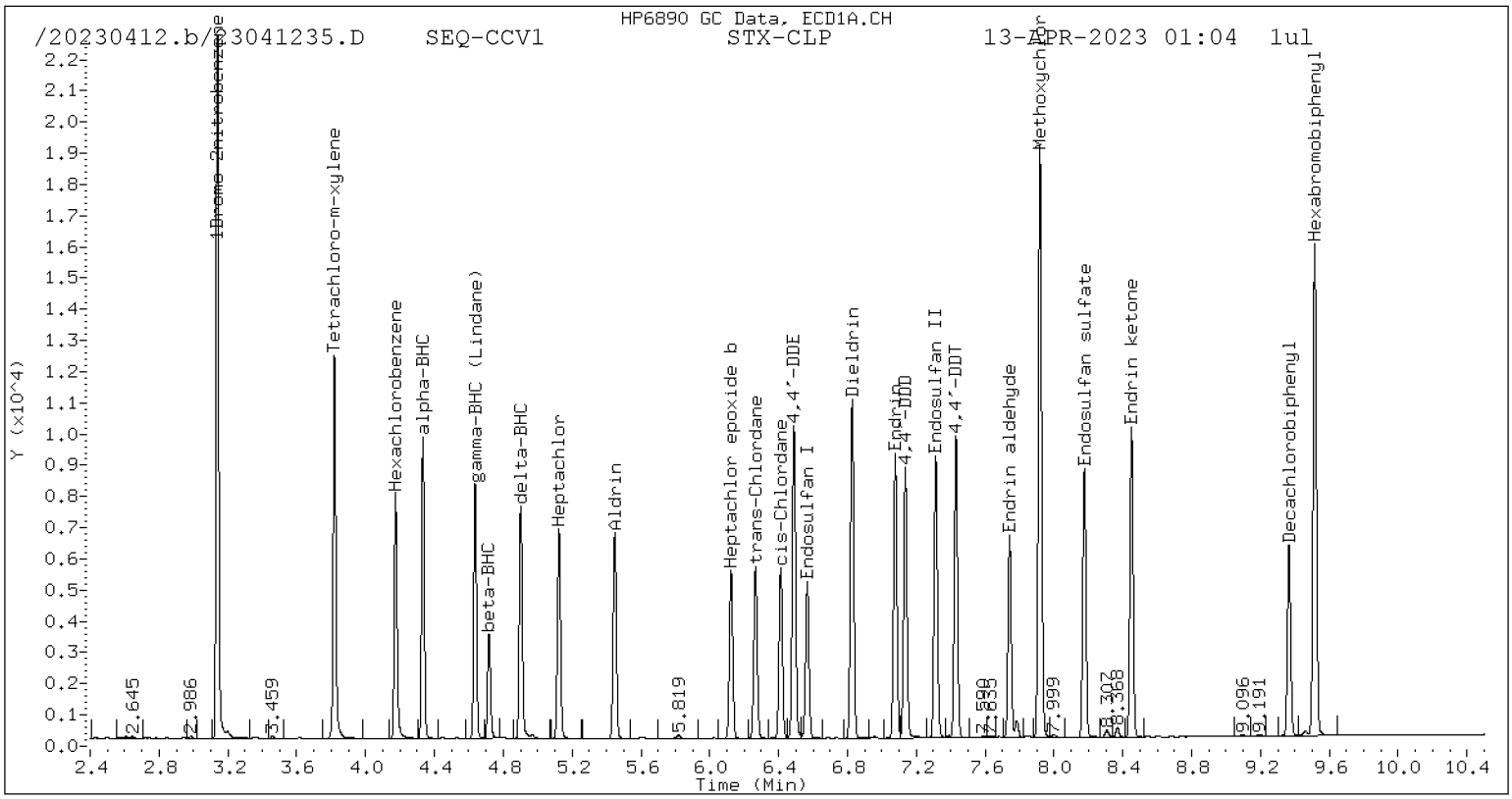
/20230412.b/23041235.D SEQ-CCV1 STX-CLP 13-APR-2023 01:04 1ul



/20230412.b/B20230412.b/23041235.D SEQ-CCV1 CLP2 13-APR-2023 01:04 1ul

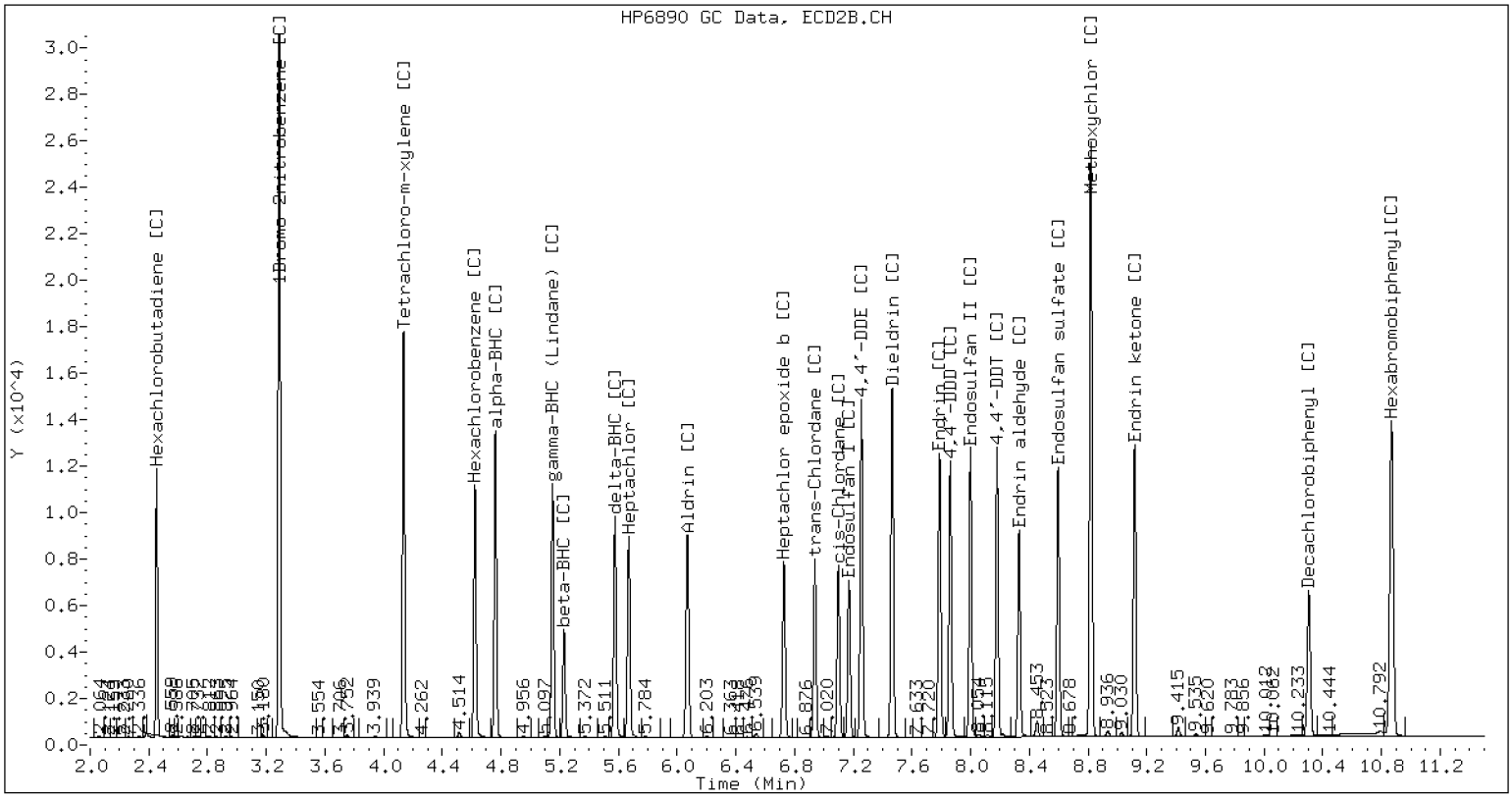


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230412.b/B20230412.b/23041235.D SEQ-CCV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23050221.D	Calibration Date:	04/12/2023
Sequence:	SLE0106	Injection Date:	05/02/23
Lab Sample ID:	SLE0106-CCV1	Injection Time:	19:35
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
alpha-BHC	A	20.000	18.7	1.7493120	1.6374360		-6.4	+/-20	
alpha-BHC [2C]	A	20.000	18.5	1.6971320	1.5732490		-7.3	+/-20	
beta-BHC	A	20.000	17.8	0.6985426	0.6210694		-11.1	+/-20	
beta-BHC [2C]	A	20.000	17.7	0.6741427	0.5965688		-11.5	+/-20	
gamma-BHC (Lindane)	A	20.000	18.6	1.5372540	1.4304800		-6.9	+/-20	
gamma-BHC (Lindane) [2C]	A	20.000	18.6	1.4921000	1.3883390		-7.0	+/-20	
delta-BHC	A	20.000	18.4	1.5838220	1.4558120		-8.1	+/-20	
delta-BHC [2C]	A	20.000	18.1	1.5107810	1.3641380		-9.7	+/-20	
Heptachlor	A	20.000	18.2	1.4227670	1.2927420		-9.1	+/-20	
Heptachlor [2C]	A	20.000	18.5	1.3085210	1.2104570		-7.5	+/-20	
Aldrin	A	20.000	18.2	1.4471840	1.3172100		-9.0	+/-20	
Aldrin [2C]	A	20.000	18.2	1.3583320	1.2377240		-8.9	+/-20	
Heptachlor Epoxide	A	20.000	16.7	1.3062650	1.0920230		-16.4	+/-20	
Heptachlor Epoxide [2C]	A	20.000	16.6	1.1956940	0.9899554		-17.2	+/-20	
trans-Chlordane (beta-Chlordane)	A	20.000	17.7	1.2781630	1.1312860		-11.5	+/-20	
trans-Chlordane (beta-Chlordane) [2C]	A	20.000	17.2	1.1465120	0.9858511		-14.0	+/-20	
cis-Chlordane (alpha-chlordane)	A	20.000	17.4	1.2830810	1.1163020		-13.0	+/-20	
cis-Chlordane (alpha-chlordane) [2C]	A	20.000	16.8	1.1290160	0.9465719		-16.2	+/-20	
Endosulfan I	A	20.000	17.3	1.1644720	1.0064600		-13.6	+/-20	
Endosulfan I [2C]	A	20.000	16.6	1.0187800	0.8481224		-16.8	+/-20	
4,4'-DDE	A	40.000	35.8	1.1619370	1.0385900		-10.6	+/-20	
4,4'-DDE [2C]	A	40.000	33.2	1.0629340	0.8828142		-16.9	+/-20	
Dieldrin	A	40.000	34.5	1.2323180	1.0619980		-13.8	+/-20	
Dieldrin [2C]	A	40.000	31.8	1.1166600	0.8888187		-20.4	+/-20	*
Endrin	A	40.000	37.7	1.3825400	1.3017190		-5.8	+/-20	
Endrin [2C]	A	40.000	33.4	1.6101570	1.3438670		-16.5	+/-20	
Endosulfan II	A	40.000	37.8	1.2946390	1.2247560		-5.4	+/-20	
Endosulfan II [2C]	A	40.000	34.8	1.5210760	1.3237810		-13.0	+/-20	
4,4'-DDD	A	40.000	39.7	1.2408670	1.2311980		-0.8	+/-20	
4,4'-DDD [2C]	A	40.000	35.2	1.4718860	1.2964970		-11.9	+/-20	
Endrin Aldehyde	A	40.000	36.5	0.9880472	0.9005362		-8.9	+/-20	
Endrin Aldehyde [2C]	A	40.000	34.2	1.0998080	0.9409909		-14.4	+/-20	
4,4'-DDT	A	40.000	38.8	1.3364530	1.2951250		-3.1	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	GD00035
Lab File ID:	23050221.D	Calibration Date:	04/12/2023
Sequence:	SLE0106	Injection Date:	05/02/23
Lab Sample ID:	SLE0106-CCV1	Injection Time:	19:35
Sequence Name:	INDA		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
4,4'-DDT [2C]	A	40.000	36.0	1.4849930	1.3362050		-10.0	+/-20
Endosulfan Sulfate	A	40.000	35.9	1.2205710	1.0965560		-10.2	+/-20
Endosulfan Sulfate [2C]	A	40.000	34.9	1.4006150	1.2228200		-12.7	+/-20
Endrin Ketone	A	40.000	35.2	1.3927500	1.2262730		-12.0	+/-20
Endrin Ketone [2C]	A	40.000	33.8	1.5294950	1.2906530		-15.6	+/-20
Methoxychlor	A	200.00	184	0.5725617	0.5273319		-7.9	+/-20
Methoxychlor [2C]	A	200.00	172	0.6367416	0.5487506		-13.8	+/-20
Hexachlorobutadiene	A	20.000	17.9	1.8042650	1.6106140		-10.7	+/-20
Hexachlorobutadiene [2C]	A	20.000	16.4	1.5408270	1.2614730		-18.1	+/-20
Hexachlorobenzene	A	20.000	17.2	1.5480310	1.3279080		-14.2	+/-20
Hexachlorobenzene [2C]	A	20.000	17.6	1.4821210	1.3070640		-11.8	+/-20
Decachlorobiphenyl	A	40.000	31.0	0.9435985	0.7322107		-22.4	+/-20
Decachlorobiphenyl [2C]	A	40.000	32.2	0.9656083	0.7772535		-19.5	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1193850	0.9954747		-11.1	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.1000560	0.9824799		-10.7	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230502.b/23050221.D
Data file 2: /20230502.b/B20230502.b/23050221.D
Method: \20230502.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SLE0106-CCV1
Client ID:
Injection Date: 02-MAY-2023 19:35
Report Date: 05/05/2023 15:04
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.325	-0.008	494366	4.751	-0.011	496778	18.72	18.54	1.0	alpha-BHC
4.709	-0.008	187510	5.219	-0.011	188376	17.78	17.70	0.5	beta-BHC
4.893	-0.008	439531	5.566	-0.011	430748	18.38	18.06	1.8	delta-BHC
4.628	-0.009	431883	5.141	-0.011	438390	18.61	18.61	0.0	gamma-BHC (Lindane)
5.116	-0.008	390298	5.660	-0.011	382221	18.17	18.50	1.8	Heptachlor
5.440	-0.008	397685	6.059	-0.012	390831	18.20	18.22	0.1	Aldrin
6.116	-0.009	329698	6.717	-0.012	312594	16.72	16.56	1.0	Heptachlor epoxide b
6.558	-0.009	303865	7.162	-0.010	267808	17.29	16.65	3.8	Endosulfan I
6.819	-0.009	641266	7.455	-0.011	561317	34.47	31.84	7.9	Dieldrin
6.481	-0.008	627131	7.246	-0.011	557525	35.75	33.22	7.3	4,4'-DDE
7.069	-0.009	533624	7.779	-0.011	440584	37.66	33.38	12.0	Endrin
7.305	-0.009	502074	7.990	-0.011	433999	37.84	34.81	8.3	Endosulfan II
7.128	-0.008	504715	7.852	-0.010	425054	39.69	35.23	11.9	4,4'-DDD
8.168	-0.009	449520	8.588	-0.010	400899	35.94	34.92	2.9	Endosulfan sulfate
7.422	-0.009	530921	8.171	-0.010	438072	38.76	35.99	7.4	4,4'-DDT
7.911	-0.009	1080867	8.812	-0.011	899534	184.20	172.36	6.6	Methoxychlor
8.443	-0.009	502696	9.109	-0.010	423138	35.22	33.75	4.2	Endrin ketone
7.733	-0.010	369164	8.321	-0.010	308502	36.46	34.22	6.3	Endrin aldehyde
6.258	-0.008	341552	6.928	-0.011	311298	17.70	17.20	2.9	trans-Chlordane
6.404	-0.009	337028	7.089	-0.011	298895	17.40	16.77	3.7	cis-Chlordane
2.304	-0.005	486268	2.447	-0.006	398330	17.85	16.37	8.6	Hexachlorobutadiene
4.167	-0.008	400915	4.613	-0.009	412726	17.16	17.64	2.8	Hexachlorobenzene
3.812	-0.007	601097	4.127	-0.009	620467	35.57	35.72	0.4	Tetrachloro-m-xylene
9.358	-0.008	300161	10.295	-0.011	254821	31.04	32.20	3.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	932757	1207659	29.5
Hexabromobiphenyl	745426	819876	10.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1248665	1263063	1.2
Hexabromobiphenyl	754634	655696	-13.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 12-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

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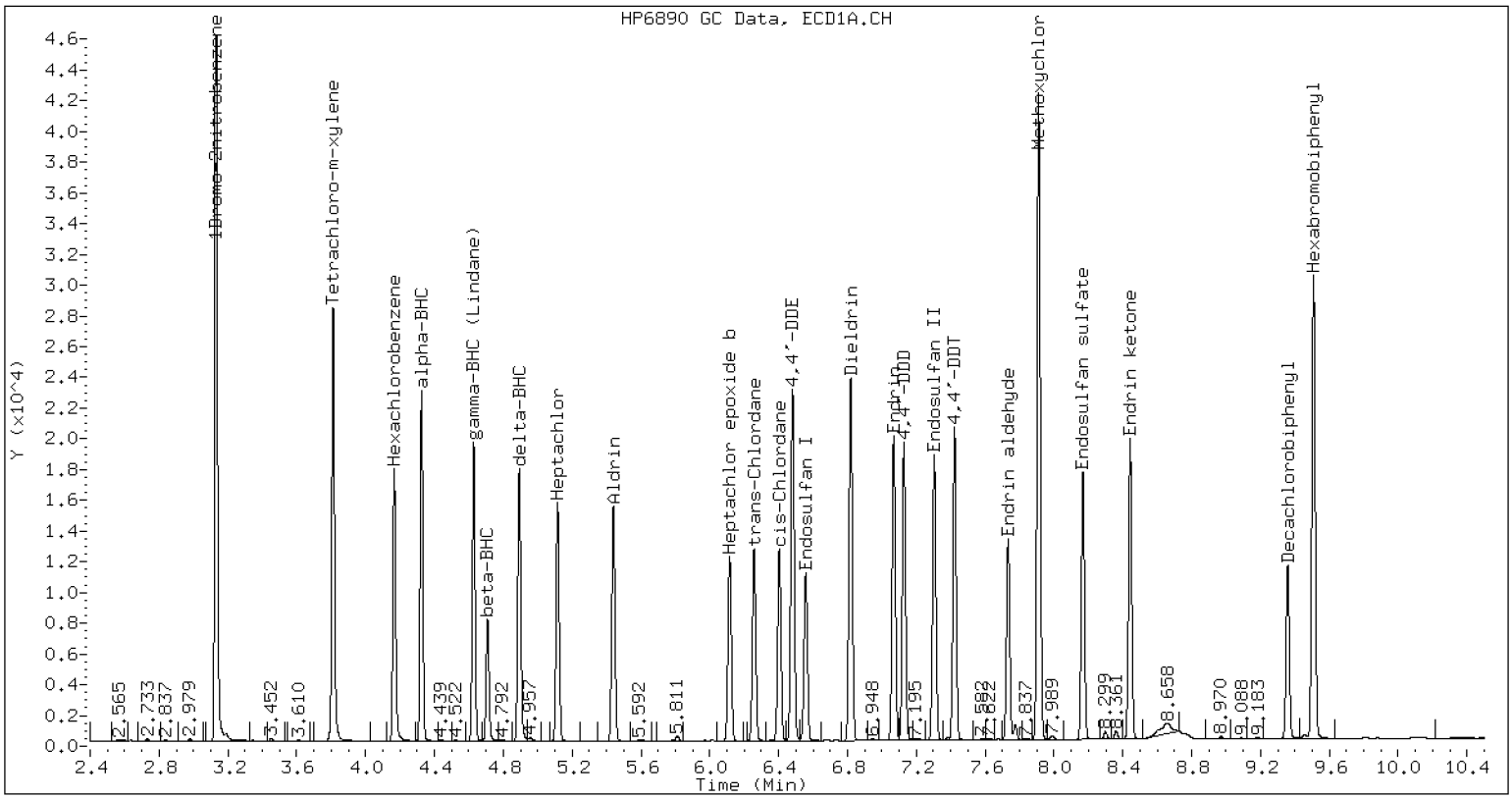

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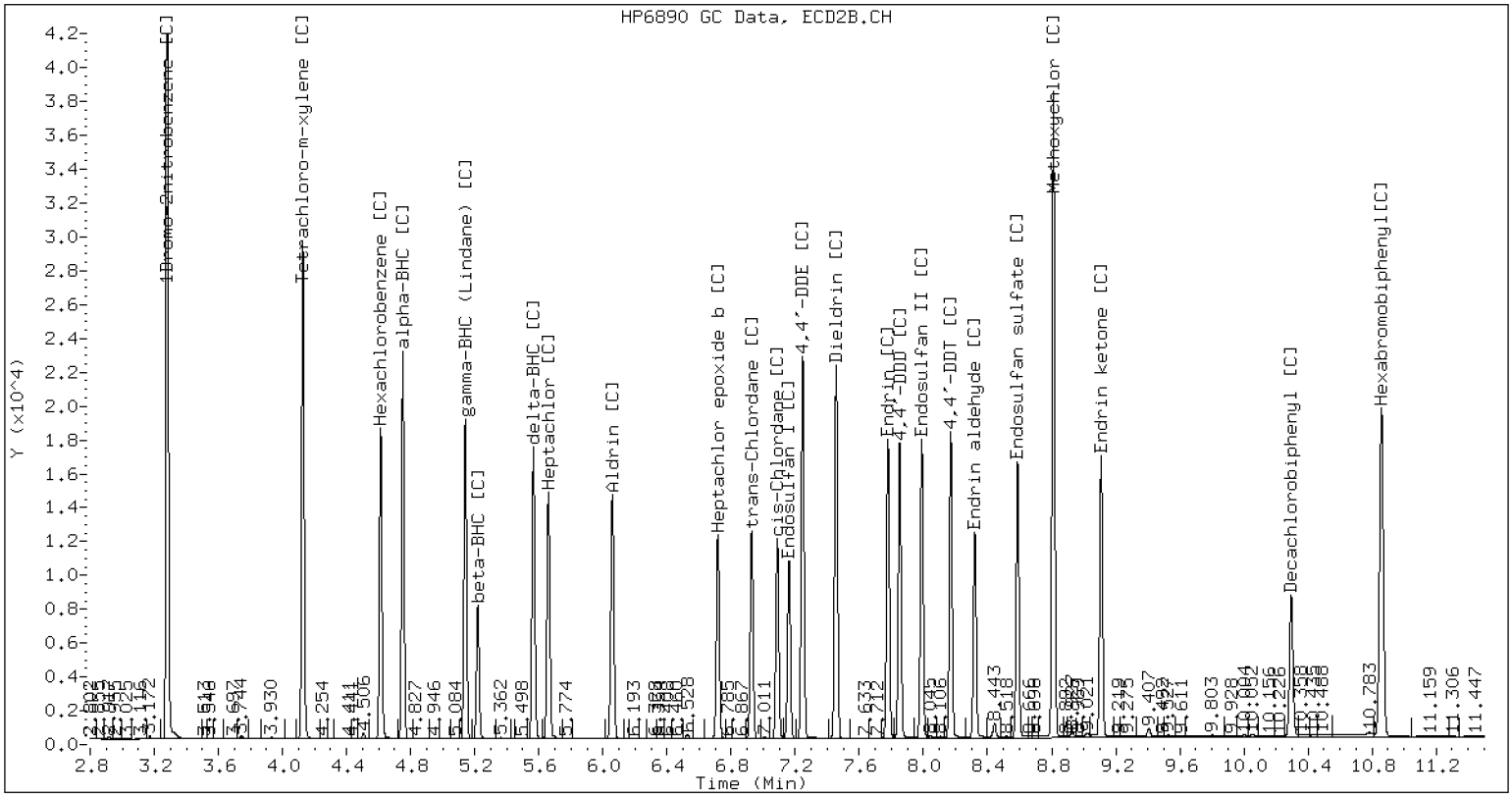
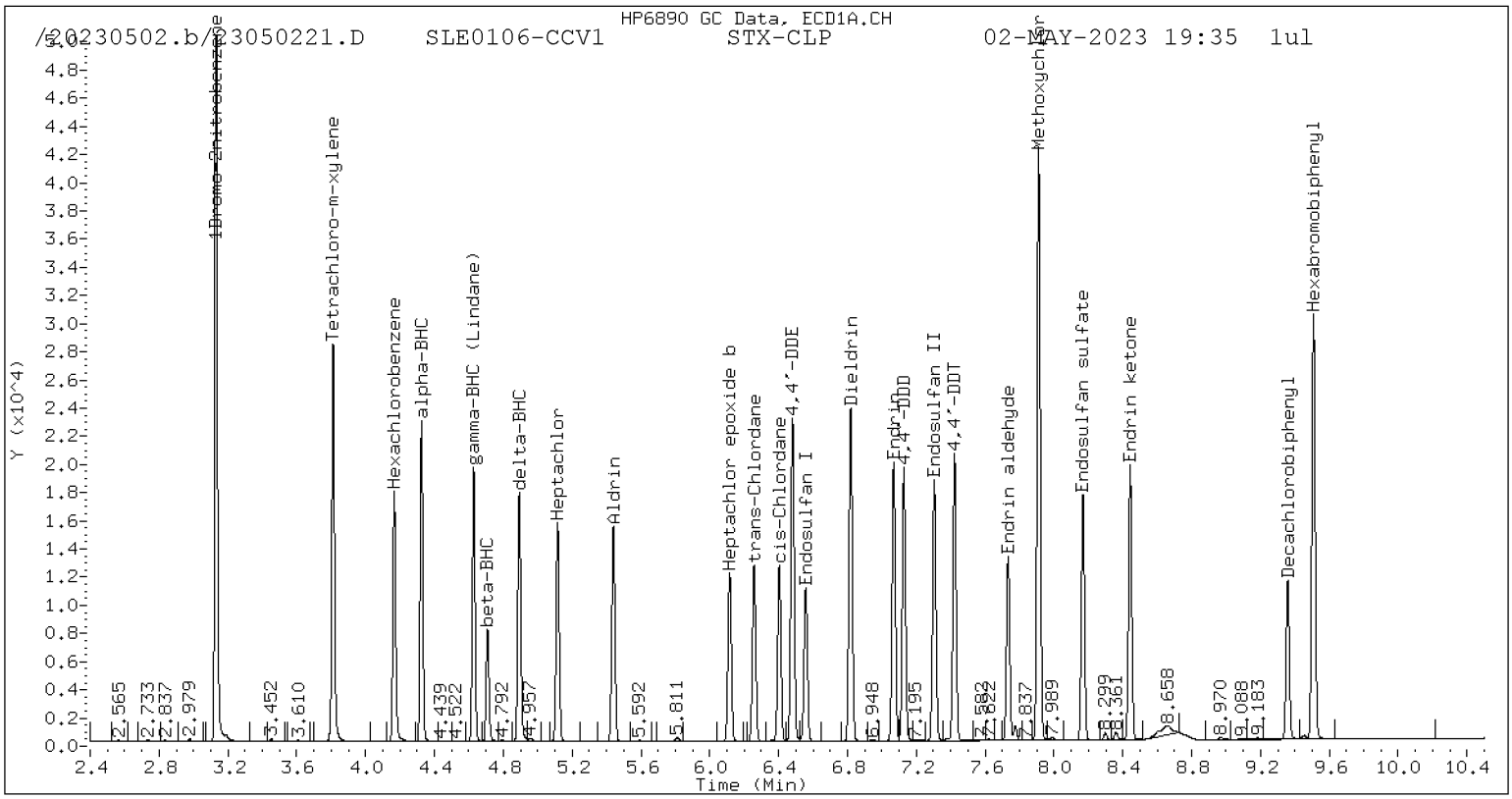


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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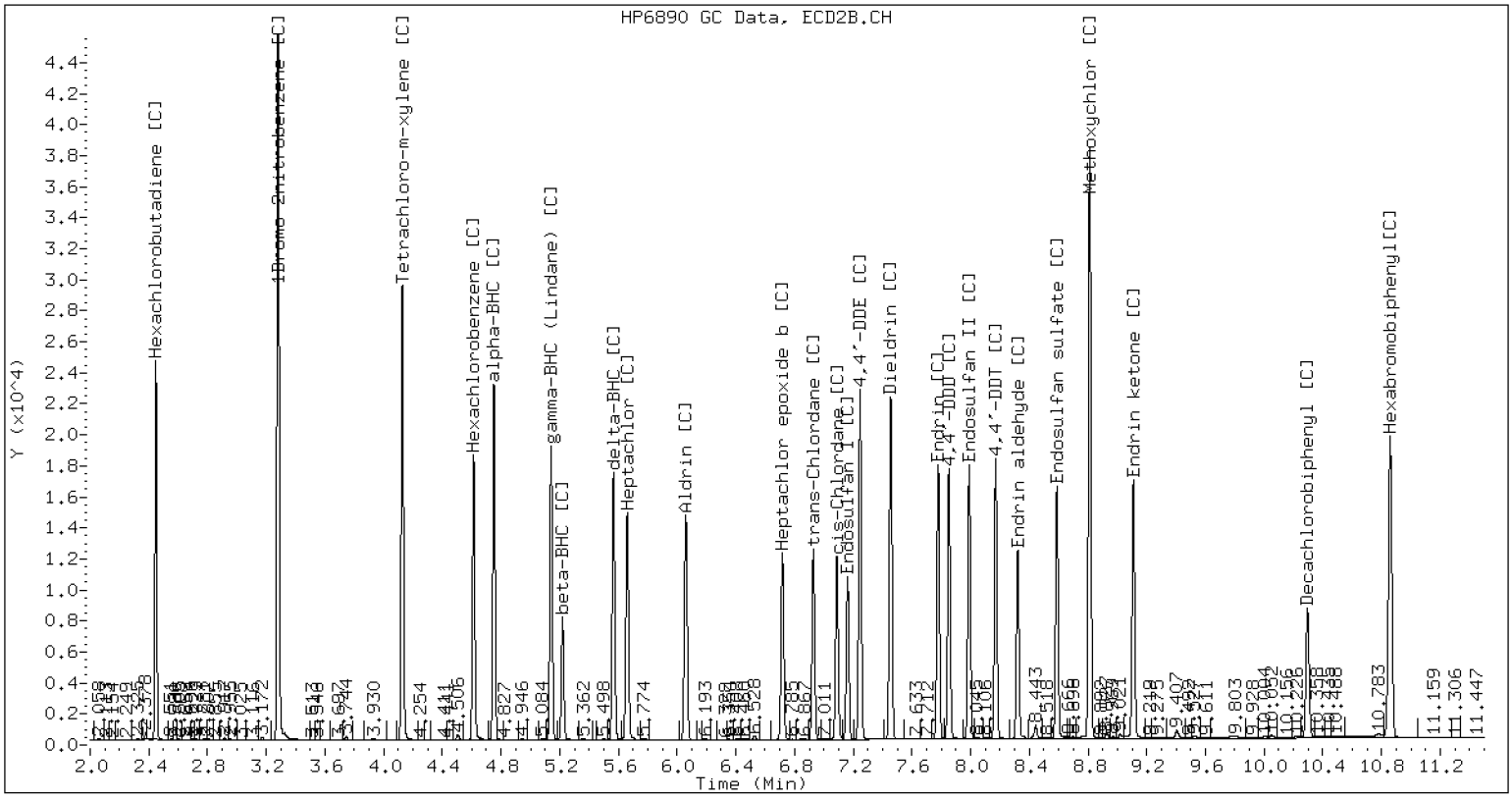

CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory: Analytical Resources, LLC
Laboratory ID: SLE0106-PEM1
File ID: 23050202.D
Client: Anchor QEA, LLC
Matrix: Water
Instrument: ECD6
Project: AOC5 MR Phase 1
Analyzed: 05/02/2023
Sequence: SLE0106
SDG: 23D0136
Calibration: GD00035
Column: 1

PEM COMPOUND	RT	Response
4,4'-DDE	6.48	5647
Endrin	7.07	609412
4,4'-DDD	7.13	7121
Endrin Aldehyde	7.74	34081
4,4'-DDT	7.42	643246
Endrin Ketone	8.44	39601

4,4'-DDT %Breakdown (1): 1.9

Endrin %Breakdown (1): 10.8

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory: Analytical Resources, LLC
Laboratory ID: SLE0106-PEM1
File ID: 23050202.D
Client: Anchor QEA, LLC
Matrix: Water
Instrument: ECD6
Project: AOC5 MR Phase 1
Analyzed: 05/02/2023
Sequence: SLE0106
SDG: 23D0136
Calibration: GD00035
Column: 2

PEM COMPOUND	RT	Response
4,4'-DDE	7.25	6110
Endrin	7.78	618580
4,4'-DDD	7.85	15708
Endrin Aldehyde	8.32	27938
4,4'-DDT	8.17	617027
Endrin Ketone	9.11	32518

4,4'-DDT %Breakdown (1): 3.4

Endrin %Breakdown (1): 8.9

7E
8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SLE0106-PEM1 InstID,Data File: ecd6.i, 23050202.D

Analysis Date: 02-MAY-2023 13:42 Init. Calib. Date: 12-APR-2023

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.133	597294
4,4'-DDE	6.485	5647
Endrin	7.071	609412
4,4'-DDD	7.131	7121
4,4'-DDT	7.424	643246
Endrin ketone	8.444	39601
Endrin aldehyde	7.736	34081
Hexabromobiphenyl	9.509	490924
Tetrachloro-m-xylene	3.814	304900
Decachlorobiphenyl	9.359	182157

DDT Percent Breakdown = 1.9 %
((5647+7121) * 100)/(5647+7121+643246)

Endrin Percent Breakdown = 10.8 %
((34081+39601) * 100)/(34081+39601+609412)

GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.281	675241
4,4'-DDE [C]	7.246	6110
Endrin [C]	7.779	618580
4,4'-DDD [C]	7.852	15708
4,4'-DDT [C]	8.171	617027
Endrin ketone [C]	9.110	32518
Endrin aldehyde [C]	8.321	27938
Hexabromobiphenyl[C]	10.860	416374
Tetrachloro-m-xylene [C]	4.128	339380
Decachlorobiphenyl [C]	10.297	172946

DDT Percent Breakdown = 3.4 %
((6110+15708) * 100)/(6110+15708+617027)

Endrin Percent Breakdown = 8.9 %
((27938+32518) * 100)/(27938+32518+618580)

Form VII Pest-1

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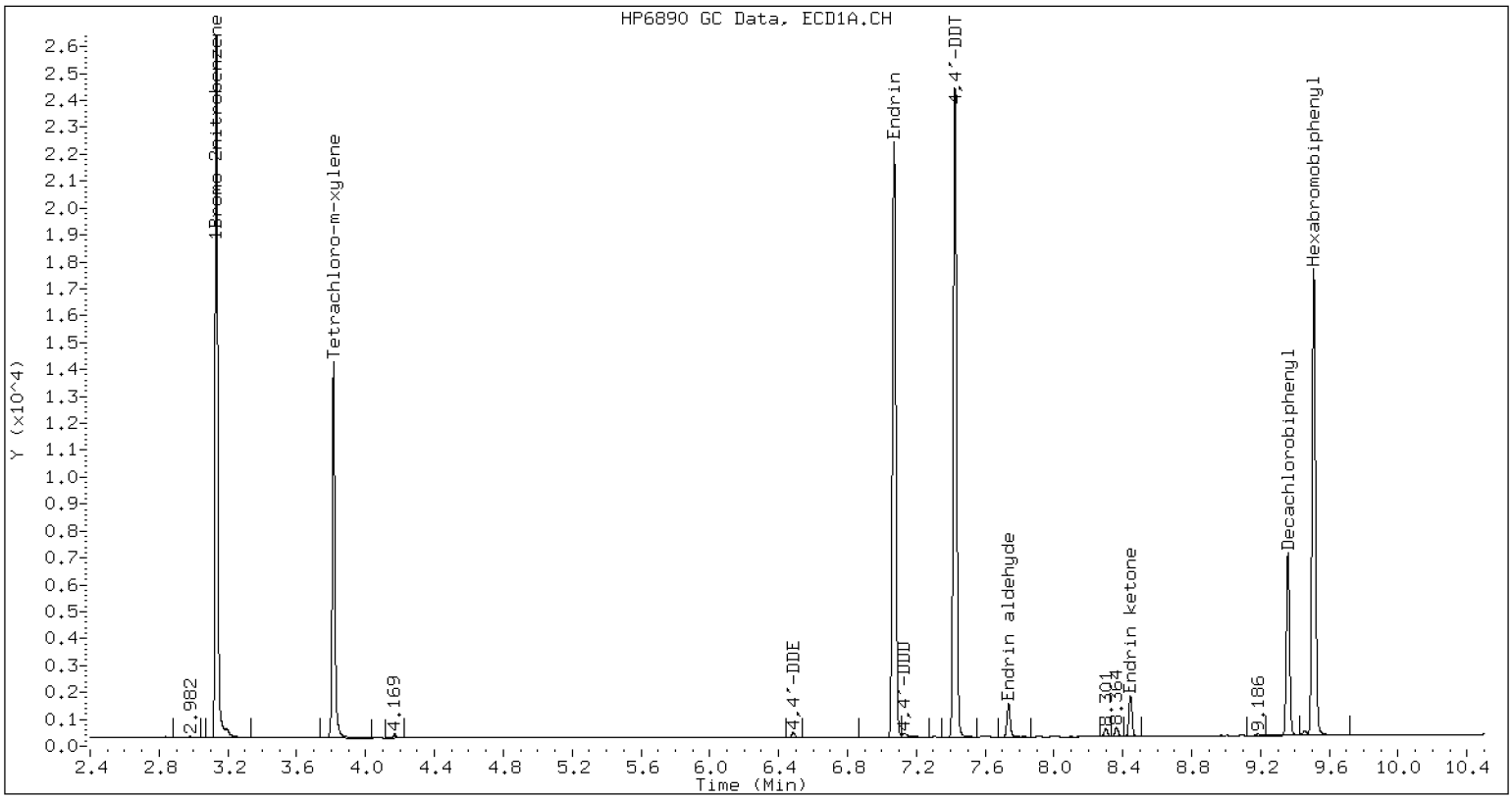

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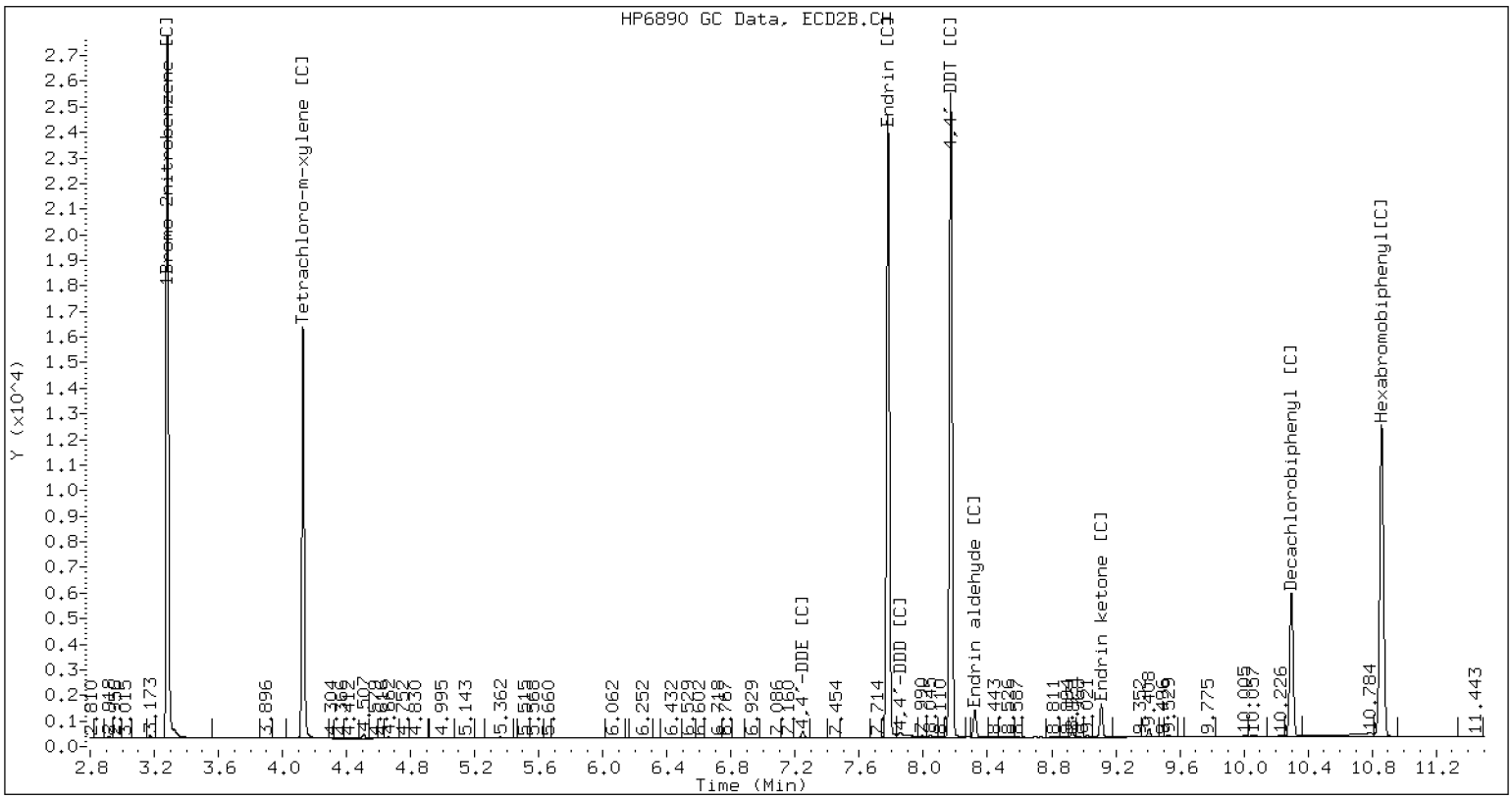


Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS2

EPA 8081B

Laboratory: Analytical Resources, LLC
Laboratory ID: SLE0106-PEM2
File ID: 23050220.D
Client: Anchor QEA, LLC
Matrix: Water
Instrument: ECD6
Project: AOC5 MR Phase 1
Analyzed: 05/02/2023
Sequence: SLE0106
SDG: 23D0136
Calibration: GD00035
Column: 1

PEM COMPOUND	RT	Response
4,4'-DDE	6.48	9965
Endrin	7.07	573954
4,4'-DDD	7.13	10951
Endrin Aldehyde	7.73	23833
4,4'-DDT	7.42	551555
Endrin Ketone	8.44	29512

4,4'-DDT %Breakdown (1): 3.7

Endrin %Breakdown (1): 8.5

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS2

EPA 8081B

Laboratory: Analytical Resources, LLC
Laboratory ID: SLE0106-PEM2
File ID: 23050220.D
Client: Anchor QEA, LLC
Matrix: Water
Instrument: ECD6
Project: AOC5 MR Phase 1
Analyzed: 05/02/2023
Sequence: SLE0106
SDG: 23D0136
Calibration: GD00035
Column: 2

PEM COMPOUND	RT	Response
4,4'-DDE	7.25	10781
Endrin	7.78	480478
4,4'-DDD	7.85	20281
Endrin Aldehyde	8.32	15773
4,4'-DDT	8.17	467277
Endrin Ketone	9.11	20035

4,4'-DDT %Breakdown (1): 6.2

Endrin %Breakdown (1): 6.9

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SLE0106-PEM2 InstID,Data File: ecd6.i, 23050220.D

Analysis Date: 02-MAY-2023 19:16 Init. Calib. Date: 12-APR-2023

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.133	617069
4,4'-DDE	6.482	9965
Endrin	7.069	573954
4,4'-DDD	7.129	10951
4,4'-DDT	7.423	551555
Endrin ketone	8.443	29512
Endrin aldehyde	7.735	23833
Hexabromobiphenyl	9.509	402314
Tetrachloro-m-xylene	3.813	299220
Decachlorobiphenyl	9.359	149088

DDT Percent Breakdown = 3.7 %
((9965+10951) * 100)/(9965+10951+551555)

Endrin Percent Breakdown = 8.5 %
((23833+29512) * 100)/(23833+29512+573954)

GC Column: STX-CLP2 ID: 0.53(mm)

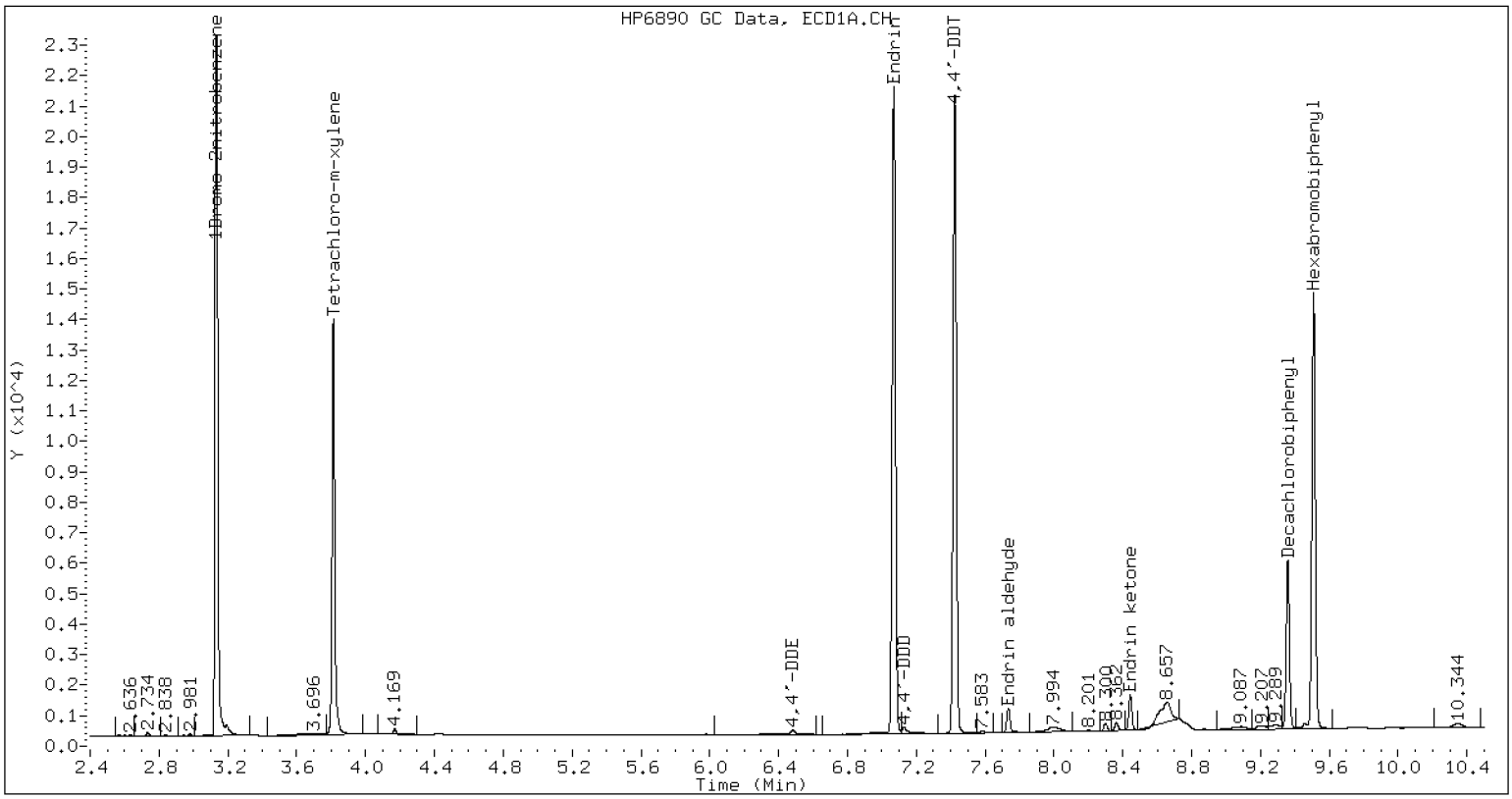
COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.281	620110
4,4'-DDE [C]	7.246	10781
Endrin [C]	7.779	480478
4,4'-DDD [C]	7.852	20281
4,4'-DDT [C]	8.172	467277
Endrin ketone [C]	9.110	20035
Endrin aldehyde [C]	8.322	15773
Hexabromobiphenyl[C]	10.861	324379
Tetrachloro-m-xylene [C]	4.128	312277
Decachlorobiphenyl [C]	10.297	138786

DDT Percent Breakdown = 6.2 %
((10781+20281) * 100)/(10781+20281+467277)

Endrin Percent Breakdown = 6.9 %
((15773+20035) * 100)/(15773+20035+480478)

Form VII Pest-1

/20230502.b/23050220.D SLE0106-PEM2 STX-CLP 02-MAY-2023 19:16 1ul



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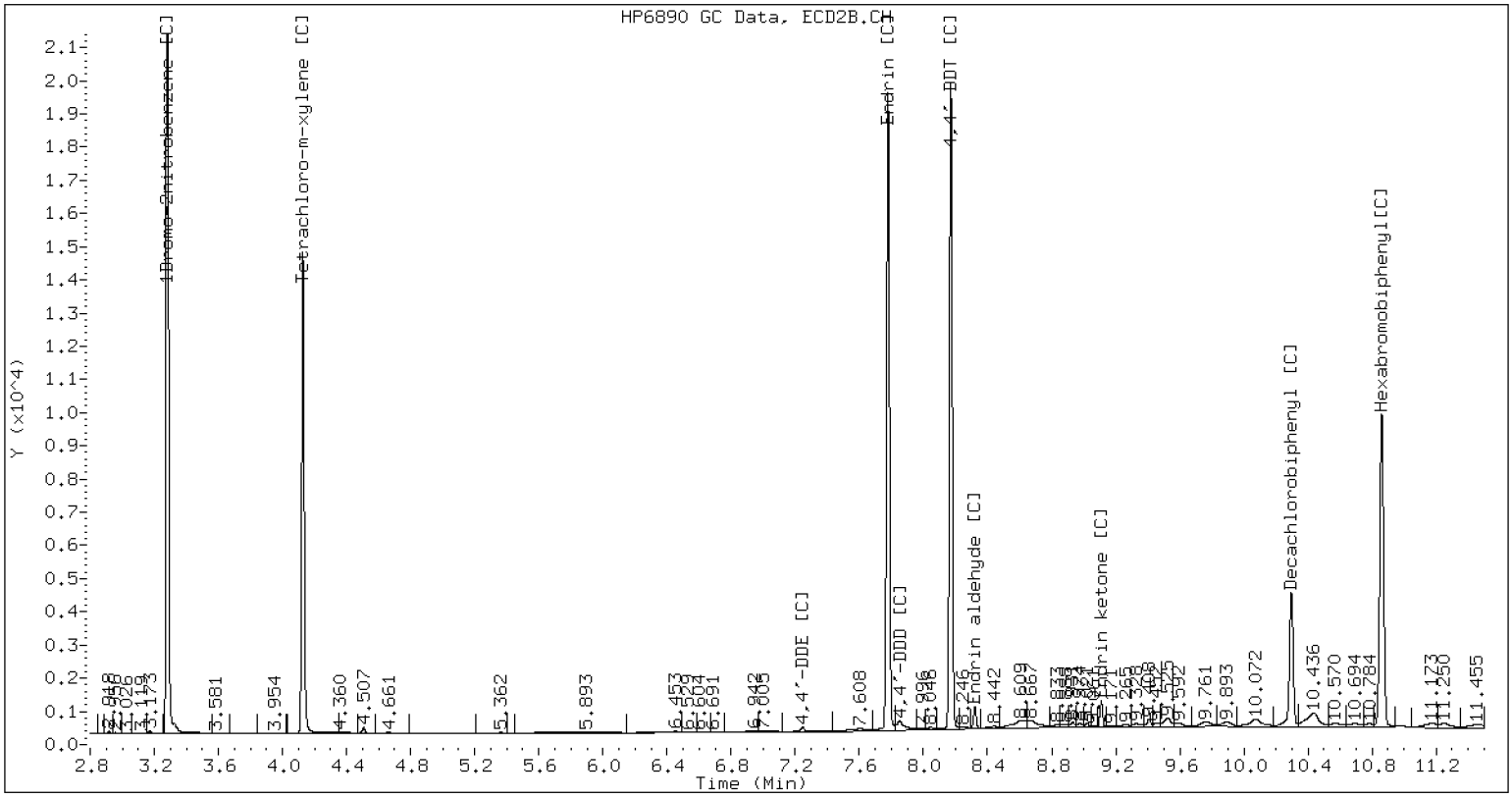
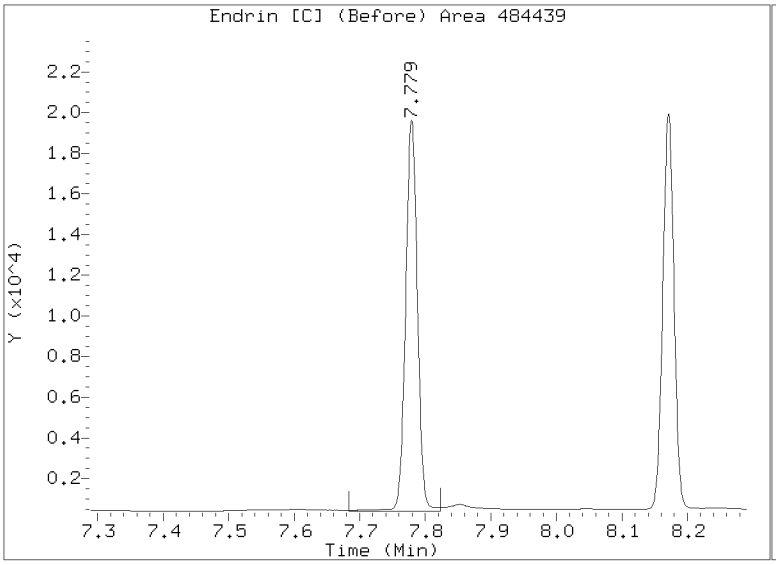
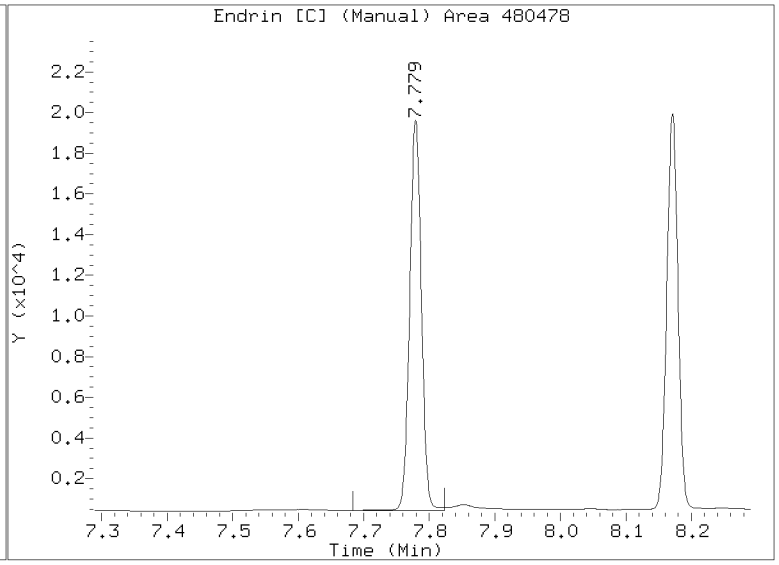
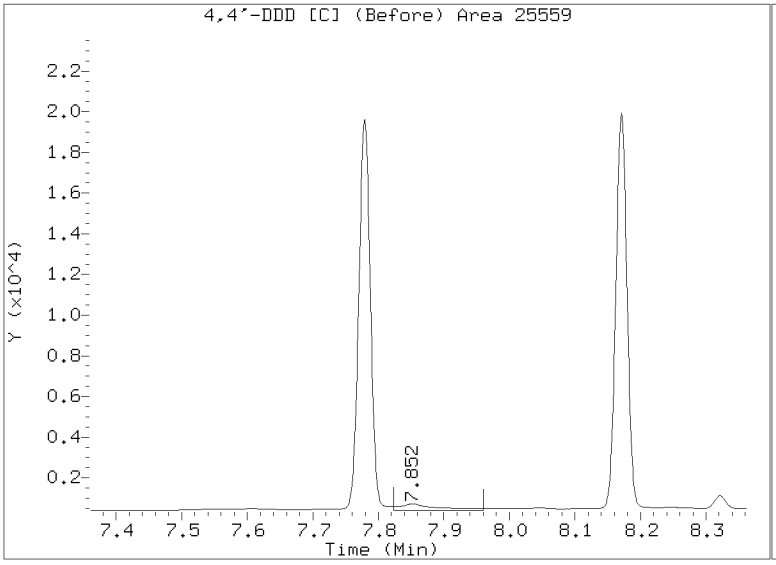


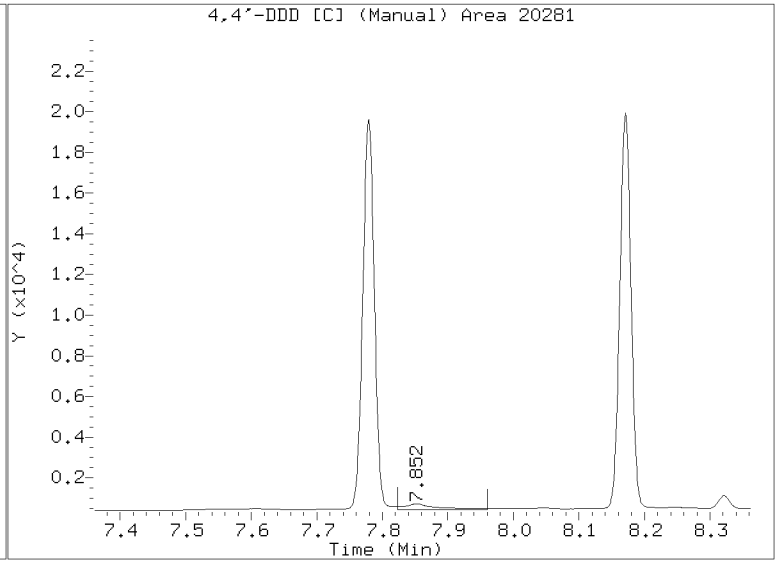
Manual Peak Adjustment Report, CLP-2

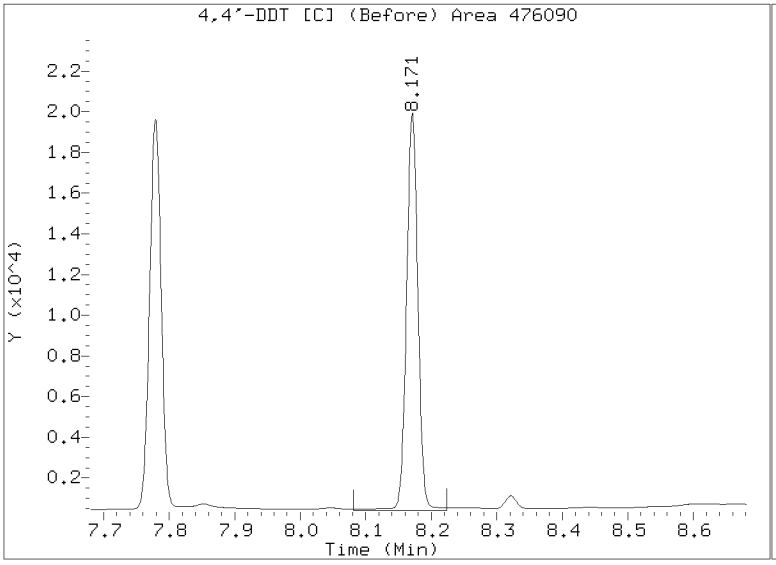
Datafile: /20230502.b/B20230502.b/23050220.D
Injection Date: 02-MAY-2023 19:16
Lab ID:SLE0106-PEM2 Client ID:

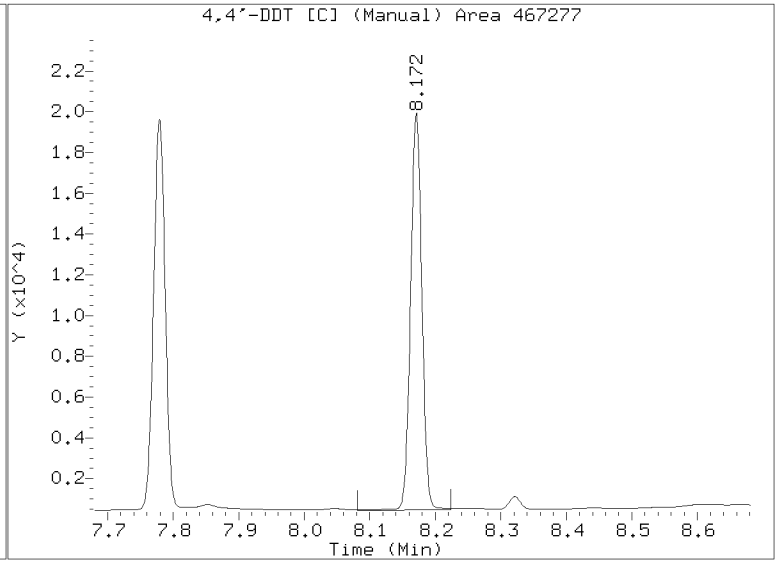












Manual Peak Adjustment Report, CLP-2

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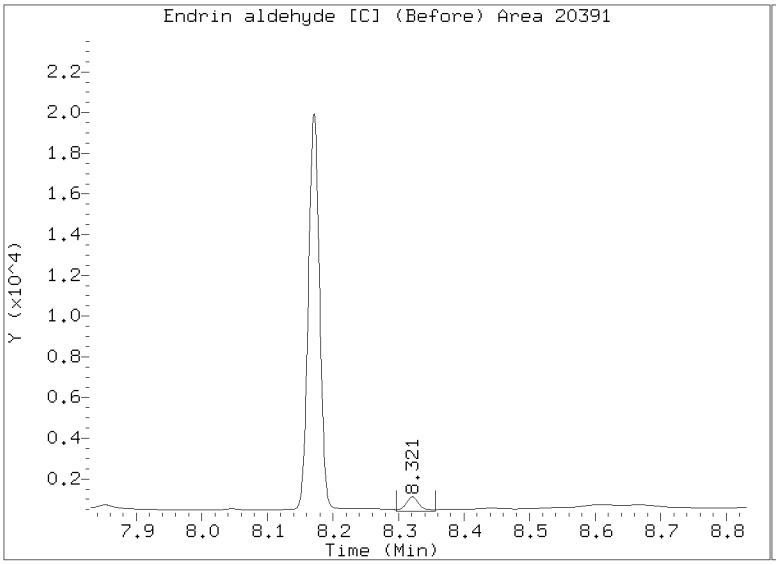
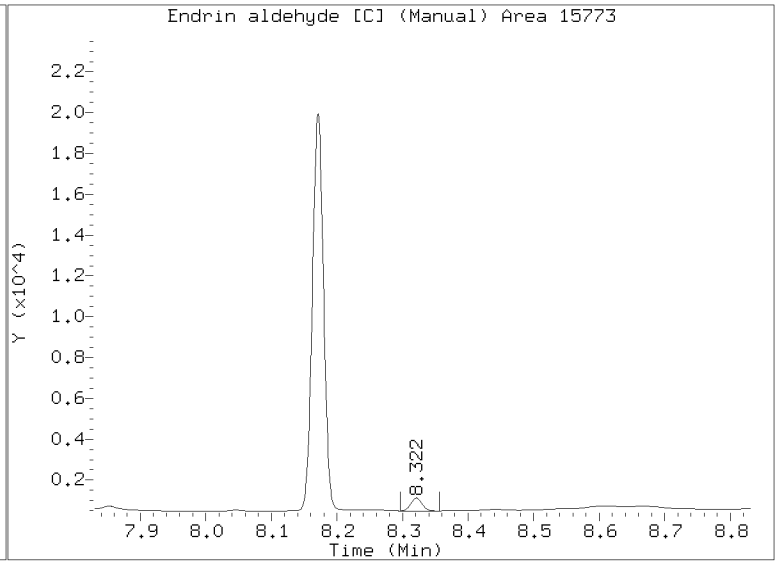
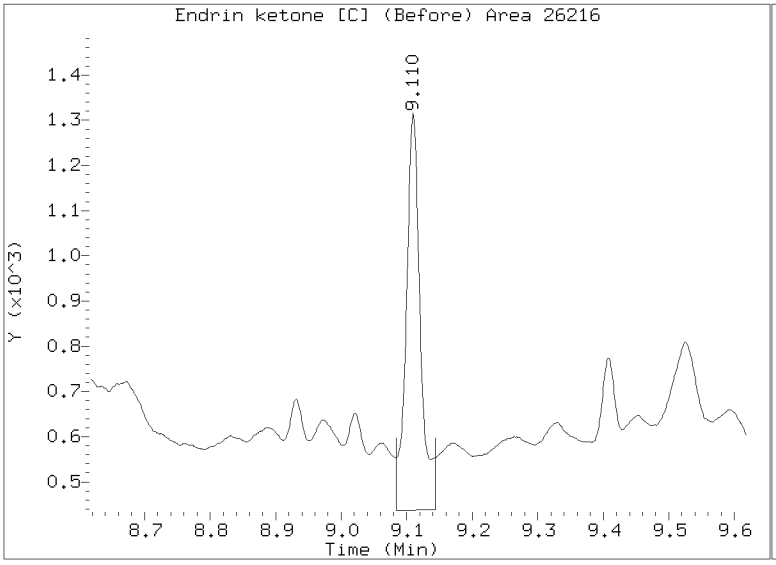
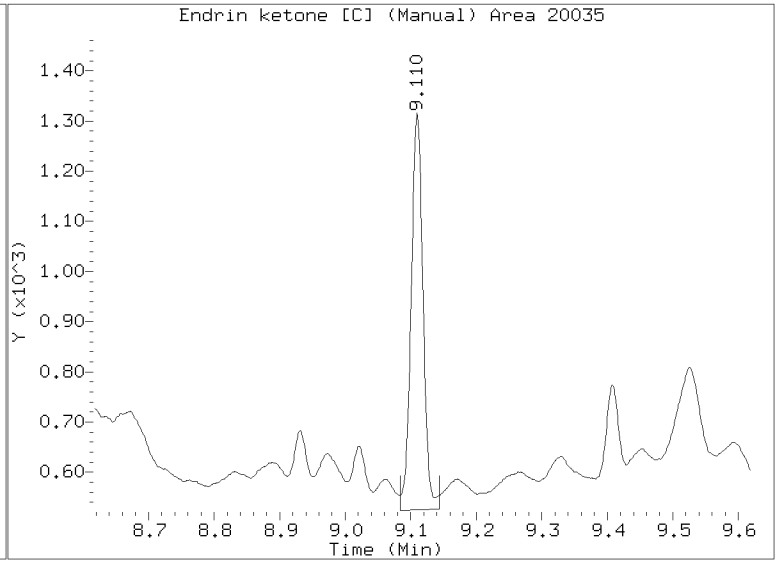
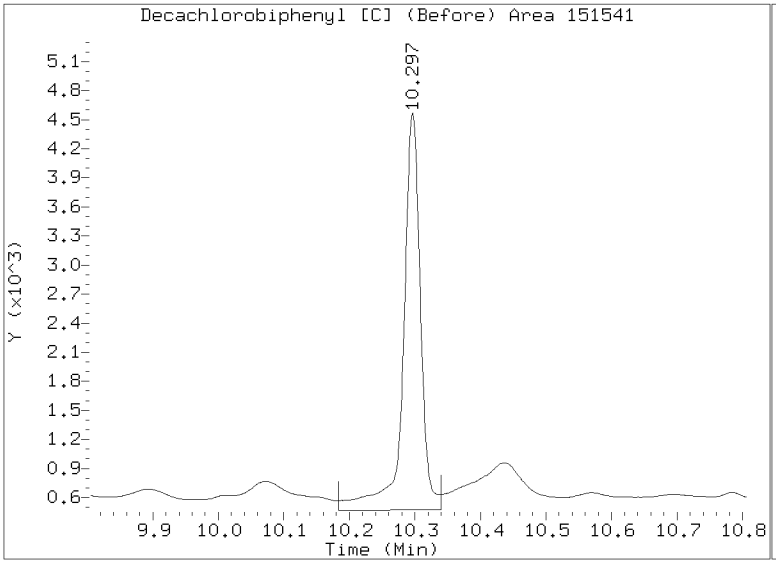
Injection Date: 02-MAY-2023 19:16
Lab ID:SLE0106-PEM2 Client ID:

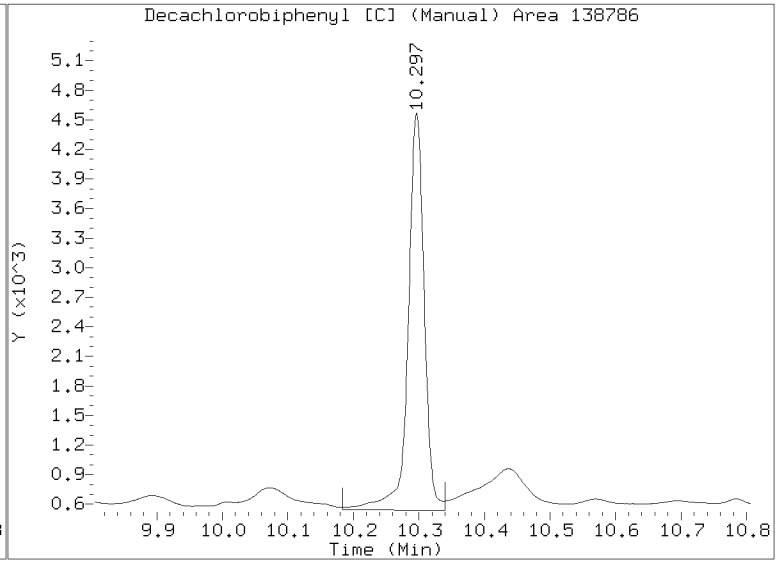












Manual Peak Adjustment Report, CLP-2

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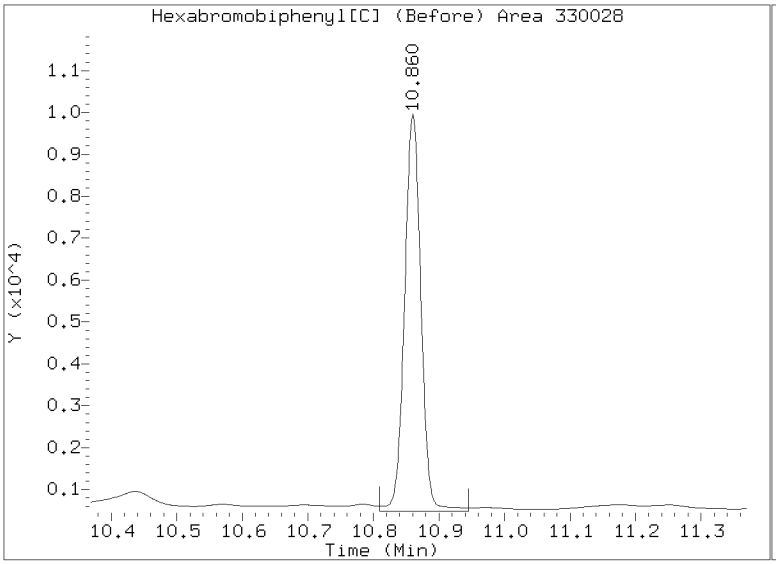
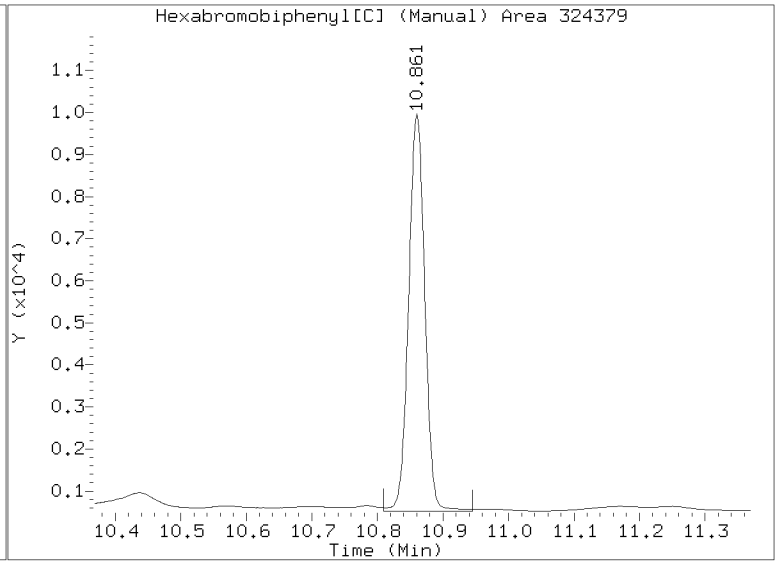
Injection Date: 02-MAY-2023 19:16
Lab ID:SLE0106-PEM2 Client ID:





Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0187
Instrument: ECD6
Calibration: GD00035

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SLD0187-CAL1	23041204.D	23041204.D	NA	04/12/23 15:34
Cal Standard	SLD0187-CAL2	23041205.D	23041205.D	NA	04/12/23 15:53
Cal Standard	SLD0187-CAL3	23041206.D	23041206.D	NA	04/12/23 16:11
Cal Standard	SLD0187-CAL5	23041207.D	23041207.D	NA	04/12/23 16:30
Cal Standard	SLD0187-CAL4	23041208.D	23041208.D	NA	04/12/23 16:48
Cal Standard	SLD0187-CAL6	23041209.D	23041209.D	NA	04/12/23 17:06
Cal Standard	SLD0187-CAL7	23041210.D	23041210.D	NA	04/12/23 17:25
Initial Cal Check	SLD0187-ICV1	23041228.D	23041228.D	NA	04/12/23 22:55
Calibration Check	SLD0187-CCV1	23041235.D	23041235.D	NA	04/13/23 01:04

Analytical Resources, LLC
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ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-PEM1	QC		1		L002116	L000844		
SLD0187-CAL1	QC		2		L003348	L000844		
SLD0187-CAL2	QC		3		L003347	L000844		
SLD0187-CAL3	QC		4		L003346	L000844		
SLD0187-CAL4	QC		5		L003345	L000844		
SLD0187-CAL5	QC		6		L003344	L000844		
SLD0187-CAL6	QC		7		L003343	L000844		
SLD0187-CAL7	QC		8		L000560	L000844		
SLD0187-CAL8	QC		9		L003342	L000844		
SLD0187-CAL9	QC		10		L003341	L000844		
SLD0187-CALA	QC		11		L003340	L000844		
SLD0187-CALB	QC		12		L003339	L000844		
SLD0187-CALC	QC		13		L003338	L000844		
SLD0187-CALD	QC		14		L003337	L000844		
SLD0187-CALE	QC		15		L000377	L000844		
SLD0187-CALF	QC		16		L003398	L000844		
SLD0187-CALG	QC		17		L003397	L000844		
SLD0187-CALH	QC		18		L003396	L000844		
SLD0187-CALI	QC		19		L003395	L000844		
SLD0187-CALJ	QC		20		L003394	L000844		
SLD0187-CALK	QC		21		L003393	L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0187-CALL	QC		22		L000559	L000844		
SLD0187-SCV1	QC		23		L003155	L000844		
SLD0187-SCV2	QC		24		L003156	L000844		
SLD0187-PEM2	QC		25		L002116	L000844		
SLD0187-ICV1	QC		26		L003344	L000844		
SLD0187-ICV2	QC		27		L003338	L000844		
BLD0075-BLK1	QC		28			L000844		
BLD0075-BS1	QC		29			L000844		
BLD0075-MRL1	QC		30			L000844		
23D0028-01	8081B Pest	E 01	31			L000844	Associated Earth Sciences, Inc	
SLD0187-PEM3	QC		32		L002116	L000844		
SLD0187-CCV1	QC		33		L003344	L000844		
SLD0187-CCV2	QC		34		L003338	L000844		
BLD0009-BLK1	QC		35			L000844		
BLD0009-BS1	QC		36			L000844		
BLD0009-BSD1	QC		37			L000844		
BLD0009-MS1	QC		38			L000844		
BLD0009-MSD1	QC		39			L000844		
23C0752-01	8081B Pest (PSDDA)	A 03	40			L000844	Anchor QEA, LLC	
23C0752-02	8081B Pest (PSDDA)	A 03	41			L000844	Anchor QEA, LLC	
23C0752-03	8081B Pest (PSDDA)	A 03	42			L000844	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLD0187

Instrument: ECD6
Calibration ID: UNASSIGNED

Printed: 4/14/2023 8:38:57AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0752-04	8081B Pest (PSDDA)	A 03	43			L000844	Anchor QEA, LLC	
23C0752-06	8081B Pest (PSDDA)	A 03	44			L000844	Anchor QEA, LLC	
SLD0187-PEM4	QC		45		L002116	L000844		
SLD0187-CCV3	QC		46		L000845	L000844		
SLD0187-CCV4	QC		47		L003338	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

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1	12-APR-2023 14:57	23041202.D	1	SEQ-IB	
2	12-APR-2023 15:16	23041203.D	1	SEQ-PEM1	
3	12-APR-2023 15:34	23041204.D	1	SEQ-CAL1	
4	12-APR-2023 15:53	23041205.D	1	SEQ-CAL2	
5	12-APR-2023 16:11	23041206.D	1	SEQ-CAL3	
6	12-APR-2023 16:30	23041207.D	1	SEQ-CAL5	
7	12-APR-2023 16:48	23041208.D	1	SEQ-CAL4	
8	12-APR-2023 17:06	23041209.D	1	SEQ-CAL6	
9	12-APR-2023 17:25	23041210.D	1	SEQ-CAL7	
10	12-APR-2023 17:43	23041211.D	1	SEQ-CAL8	
11	12-APR-2023 18:02	23041212.D	1	SEQ-CAL9	
12	12-APR-2023 18:20	23041213.D	1	SEQ-CALA	
13	12-APR-2023 18:38	23041214.D	1	SEQ-CALB	
14	12-APR-2023 18:57	23041215.D	1	SEQ-CALC	
15	12-APR-2023 19:15	23041216.D	1	SEQ-CALD	
16	12-APR-2023 19:34	23041217.D	1	SEQ-CALE	
17	12-APR-2023 19:52	23041218.D	1	SEQ-CALF	
18	12-APR-2023 20:10	23041219.D	1	SEQ-CALG	
19	12-APR-2023 20:29	23041220.D	1	SEQ-CALH	
20	12-APR-2023 20:47	23041221.D	1	SEQ-CALI	
21	12-APR-2023 21:05	23041222.D	1	SEQ-CALJ	
22	12-APR-2023 21:24	23041223.D	1	SEQ-CALK	
23	12-APR-2023 21:42	23041224.D	1	SEQ-CALL	
24	12-APR-2023 22:00	23041225.D	1	SEQ-SCV1	
25	12-APR-2023 22:19	23041226.D	1	SEQ-SCV2	
26	12-APR-2023 22:37	23041227.D	1	SEQ-PEM2	
27	12-APR-2023 22:55	23041228.D	1	SEQ-ICV1	
28	12-APR-2023 23:14	23041229.D	1	SEQ-ICV2	
29	12-APR-2023 23:32	23041230.D	1	BLD0075-BLK1	
30	12-APR-2023 23:50	23041231.D	1	BLD0075-BS1	
31	13-APR-2023 00:09	23041232.D	1	BLD0075-MRL1	
32	13-APR-2023 00:27	23041233.D	1	23D0028-01	
33	13-APR-2023 00:45	23041234.D	1	SEQ-PEM3	
34	13-APR-2023 01:04	23041235.D	1	SEQ-CCV1	
35	13-APR-2023 01:22	23041236.D	1	SEQ-CCV2	
36	13-APR-2023 01:40	23041237.D	1	BLD0009-BLK1	
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38	13-APR-2023 02:17	23041239.D	1	BLD0009-BSD1	
39	13-APR-2023 02:35	23041240.D	1	BLD0009-MS1	
40	13-APR-2023 02:53	23041241.D	1	BLD0009-MSD1	
41	13-APR-2023 03:12	23041242.D	1	23C0752-01	
42	13-APR-2023 03:30	23041243.D	1	23C0752-02	
43	13-APR-2023 03:48	23041244.D	1	23C0752-03	
44	13-APR-2023 04:07	23041245.D	1	23C0752-04	
45	13-APR-2023 04:25	23041246.D	1	23C0752-06	
46	13-APR-2023 04:43	23041247.D	1	SEQ-PEM4	
47	13-APR-2023 05:02	23041248.D	1	SEQ-CCV3	
48	13-APR-2023 05:20	23041249.D	1	SEQ-CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

ARI Job No.: SEQ- Method: PEST.m Instrument: ecd6.i Date: 12-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1457	23041202.D	SEQ-IB		1	NO MANUAL INTEGRATION
1516	23041203.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1534	23041204.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1553	23041205.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
1611	23041206.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
1630	23041207.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
1648	23041208.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
1706	23041209.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
1725	23041210.D	SEQ-CAL7		1	alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Heptachlor epoxide b, Erdosulfan I, Dieldrin, 4,4'-DDE, Endrin, Endosulfan II, 4,4'-DDD, Endosulfan sulfate, 4,4'-DDT, Methoxychlor, Endrin ketone, Endrin aldehyde, trans-Chlordane, cis-Chlordane, Hexachlorobe
1743	23041211.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
1802	23041212.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
1820	23041213.D	SEQ-CALA		1	NO MANUAL INTEGRATION
1838	23041214.D	SEQ-CALB		1	NO MANUAL INTEGRATION
1857	23041215.D	SEQ-CALC		1	NO MANUAL INTEGRATION
1915	23041216.D	SEQ-CALD		1	NO MANUAL INTEGRATION
1934	23041217.D	SEQ-CALE		1	Oxychlordane, 2,4-DDE, trans-Nonachlor, 2,4-DDD, 2,4-DDT, cis-Nonachlor, Mirex,
1952	23041218.D	SEQ-CALF		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2010	23041219.D	SEQ-CALG		1	NO MANUAL INTEGRATION
2029	23041220.D	SEQ-CALH		1	NO MANUAL INTEGRATION
2047	23041221.D	SEQ-CALI		1	NO MANUAL INTEGRATION
2105	23041222.D	SEQ-CALJ		1	NO MANUAL INTEGRATION
2124	23041223.D	SEQ-CALK		1	NO MANUAL INTEGRATION
2142	23041224.D	SEQ-CALL		1	NO MANUAL INTEGRATION
2200	23041225.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
2219	23041226.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
2237	23041227.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
2255	23041228.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
2314	23041229.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
2332	23041230.D	BLD0075-BLK1		1	NO MANUAL INTEGRATION
2350	23041231.D	BLD0075-BS1		1	NO MANUAL INTEGRATION
0009	23041232.D	BLD0075-MRL1		1	NO MANUAL INTEGRATION
0027	23041233.D	23D0028-01		1	NO MANUAL INTEGRATION
0045	23041234.D	SEQ-PEM3		1	Endrin, 4,4'-DDD,
0104	23041235.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
0122	23041236.D	SEQ-CCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230412.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0140	23041237.D	BLD0009-BLK1		1	NO MANUAL INTEGRATION
0159	23041238.D	BLD0009-BS1		1	NO MANUAL INTEGRATION
0217	23041239.D	BLD0009-BSD1		1	NO MANUAL INTEGRATION
0235	23041240.D	BLD0009-MS1		1	Endrin, 4,4'-DDD, 4,4'-DDT,
0253	23041241.D	BLD0009-MSD1		1	Aldrin,
0312	23041242.D	23C0752-01		1	delta-BHC, gamma-BHC (Lindane), Endrin, 4,4'-DDD, 4,4'-DDT, Endrin aldehyde, Toxaphene, cis-Nonachlor,
0330	23041243.D	23C0752-02		1	Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0348	23041244.D	23C0752-03		1	Dieldrin, 4,4'-DDD, cis-Chlordane, Hexachlorobenzene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0407	23041245.D	23C0752-04		1	delta-BHC, Endrin, 4,4'-DDD, 4,4'-DDT, trans-Chlordane, cis-Chlordane, Toxaphene, trans-Nonachlor, cis-Nonachlor, Chlordane (NOS),
0425	23041246.D	23C0752-06		1	Endrin, 4,4'-DDT, cis-Chlordane, Toxaphene, cis-Nonachlor, Mirex, Chlordane (NOS),
0443	23041247.D	SEQ-PEM4		1	Endrin, 4,4'-DDD,
0502	23041248.D	SEQ-CCV3		1	Hexabromobiphenyl,
0520	23041249.D	SEQ-CCV4		1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Apr-2023 08:24

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23041249.D	Data Locked	yev, 14-

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0106
Instrument: ECD6
Calibration: GD00035

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Performance Mix	SLE0106-PEM1	23050202.D	23050202.D	NA	05/02/23 13:42
Initial Cal Check	SLE0106-ICV1	23050203.D	23050203.D	NA	05/02/23 14:00
Blank	BLD0325-BLK1	23050213.D	23050213.D	Solid	05/02/23 17:06
LCS	BLD0325-BS1	23050214.D	23050214.D	Solid	05/02/23 17:25
LCS Dup	BLD0325-BSD1	23050215.D	23050215.D	Solid	05/02/23 17:43
LDW23-SS1804	BLD0325-MS1	23050216.D	23050216.D	Solid	05/02/23 18:02
LDW23-SS1804	BLD0325-MSD1	23050217.D	23050217.D	Solid	05/02/23 18:21
LDW23-SS1804	23D0136-01	23050218.D	23050218.D	Solid	05/02/23 18:39
LDW23-SS1803	23D0136-03	23050219.D	23050219.D	Solid	05/02/23 18:58
Performance Mix	SLE0106-PEM2	23050220.D	23050220.D	NA	05/02/23 19:16
Calibration Check	SLE0106-CCV1	23050221.D	23050221.D	NA	05/02/23 19:35

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLE0106

Instrument: ECD6
Calibration ID: GD00035

Printed: 5/5/2023 2:31:30PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLE0106-PEM1	QC		1		L002116	L000844		
SLE0106-ICV1	QC		2		L003344	L000844		
BLD0299-BLK1	QC		3			L000844		
BLD0299-BS1	QC		4			L000844		
BLD0299-BSD1	QC		5			L000844		
BLD0299-MS1	QC		6			L000844		
BLD0299-MSD1	QC		7			L000844		
23D0037-01	8081B Pest (PSDDA)	A 02	8			L000844	Anchor QEA, LLC	
23D0037-03	8081B Pest (PSDDA)	A 02	9			L000844	Anchor QEA, LLC	
23D0063-01	8081B Pest (PSDDA)	A 02	10			L000844	Anchor QEA, LLC	
23D0063-03	8081B Pest (PSDDA)	A 02	11			L000844	Anchor QEA, LLC	
BLD0325-BLK1	QC		12			L000844		
BLD0325-BS1	QC		13			L000844		
BLD0325-BSD1	QC		14			L000844		
BLD0325-MS1	QC		15			L000844		
BLD0325-MSD1	QC		16			L000844		
23D0136-01	8081B Pest (PSDDA)	A 02	17			L000844	Anchor QEA, LLC	
23D0136-03	8081B Pest (PSDDA)	A 01	18			L000844	Anchor QEA, LLC	
SLE0106-PEM2	QC		19		L002116	L000844		
SLE0106-CCV1	QC		20		L003344	L000844		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLE0106

Instrument: ECD6
Calibration ID: GD00035

Printed: 5/5/2023 2:31:30PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230502.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	02-MAY-2023 13:42	23050202.D	1	SLE0106-PEM1	
2	02-MAY-2023 14:00	23050203.D	1	SLE0106-ICV1	
3	02-MAY-2023 14:19	23050204.D	1	BLD0299-BLK1	
4	02-MAY-2023 14:37	23050205.D	1	BLD0299-BS1	
5	02-MAY-2023 14:56	23050206.D	1	BLD0299-BSD1	
6	02-MAY-2023 15:14	23050207.D	1	BLD0299-MS1	
7	02-MAY-2023 15:33	23050208.D	1	BLD0299-MSD1	
8	02-MAY-2023 15:52	23050209.D	1	23D0037-01	
9	02-MAY-2023 16:10	23050210.D	1	23D0037-03	
10	02-MAY-2023 16:29	23050211.D	1	23D0063-01	
11	02-MAY-2023 16:48	23050212.D	1	23D0063-03	
12	02-MAY-2023 17:06	23050213.D	1	BLD0325-BLK1	
13	02-MAY-2023 17:25	23050214.D	1	BLD03259-BS1	
14	02-MAY-2023 17:43	23050215.D	1	BLD0325-BSD1	
15	02-MAY-2023 18:02	23050216.D	1	BLD0325-MS1	
16	02-MAY-2023 18:21	23050217.D	1	BLD0325-MSD1	
17	02-MAY-2023 18:39	23050218.D	1	23D0136-01	
18	02-MAY-2023 18:58	23050219.D	1	23D0136-03	
19	02-MAY-2023 19:16	23050220.D	1	SLE0106-PEM2	
20	02-MAY-2023 19:35	23050221.D	1	SLE0106-CCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230502.b

ARI Job No.: SLE0 Method: PEST.m Instrument: ecd6.i Date: 02-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1342	23050202.D	SLE0106-PEM1		1	NO MANUAL INTEGRATION
1400	23050203.D	SLE0106-ICV1		1	NO MANUAL INTEGRATION
1419	23050204.D	BLD0299-BLK1		1	Hexachlorobenzene,
1437	23050205.D	BLD0299-BS1		1	NO MANUAL INTEGRATION
1456	23050206.D	BLD0299-BSD1		1	NO MANUAL INTEGRATION
1514	23050207.D	BLD0299-MS1		1	NO MANUAL INTEGRATION
1533	23050208.D	BLD0299-MSD1		1	NO MANUAL INTEGRATION
1552	23050209.D	23D0037-01		1	Hexachlorobutadiene, Hexachlorobenzene,
1610	23050210.D	23D0037-03		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
1629	23050211.D	23D0063-01		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
1648	23050212.D	23D0063-03		1	Hexachlorobenzene,
1706	23050213.D	BLD0325-BLK1		1	1Bromo-2nitrobenzene, Tetrachloro-m-xylene,
1725	23050214.D	BLD03259-BS1		1	NO MANUAL INTEGRATION
1743	23050215.D	BLD0325-BSD1		1	NO MANUAL INTEGRATION
1802	23050216.D	BLD0325-MS1		1	NO MANUAL INTEGRATION
1821	23050217.D	BLD0325-MSD1		1	NO MANUAL INTEGRATION
1839	23050218.D	23D0136-01		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230502.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1858	23050219.D	23D0136-03	1	1	Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
1916	23050220.D	SLE0106-PEM2	1		NO MANUAL INTEGRATION
1935	23050221.D	SLE0106-CCV1	1		NO MANUAL INTEGRATION

Security Status Report

Date: 05-May-2023 15:15

23050202.D	Data Locked	yev, 05-
23050203.D	Data Locked	yev, 05-
23050204.D	Data Locked	yev, 05-
23050205.D	Data Locked	yev, 05-
23050206.D	Data Locked	yev, 05-
23050207.D	Data Locked	yev, 05-
23050208.D	Data Locked	yev, 05-
23050209.D	Data Locked	yev, 05-
23050210.D	Data Locked	yev, 05-
23050211.D	Data Locked	yev, 05-
23050212.D	Data Locked	yev, 05-
23050213.D	Data Locked	yev, 05-
23050214.D	Data Locked	yev, 05-
23050215.D	Data Locked	yev, 05-
23050216.D	Data Locked	yev, 05-
23050217.D	Data Locked	yev, 05-
23050218.D	Data Locked	yev, 05-
23050219.D	Data Locked	yev, 05-
23050220.D	Data Locked	yev, 05-
23050221.D	Data Locked	yev, 05-

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG/WO:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0187	Instrument:	ECD6
Calibration:	GD00035	Calibration Date:	04/12/2023

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0187-ICV1 (Solid)				Lab File ID: 23041228.D			Analyzed: 04/12/23 22:55	
Decachlorobiphenyl	40.000	79.8	80 - 120	9.366	9.365571	0.0004	+/-0.1	*
Decachlorobiphenyl [2C]	40.000	83.8	80 - 120	10.306	10.30529	0.0007	+/-0.1	
Tetrachlorometaxylene	40.000	88.6	80 - 120	3.82	3.819	0.0010	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	89.4	80 - 120	4.135	4.135572	-0.0006	+/-0.1	
SLD0187-CCV1 (Solid)				Lab File ID: 23041235.D			Analyzed: 04/13/23 01:04	
Decachlorobiphenyl	40.000	78.8	80 - 120	9.365	9.365571	-0.0006	+/-0.1	*
Decachlorobiphenyl [2C]	40.000	84.2	80 - 120	10.304	10.30529	-0.0013	+/-0.1	
Tetrachlorometaxylene	40.000	88.7	80 - 120	3.819	3.819	0.0000	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	89.1	80 - 120	4.135	4.135572	-0.0006	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0106
Instrument: ECD6
Calibration: GD00035
Calibration Date: 04/12/2023

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLE0106-PEM1 (Water)				Lab File ID: 23050202.D			Analyzed: 05/02/23 13:42	
Decachlorobiphenyl	40.000	78.6	0 - 200	9.359	9.365571	-0.0066	+/-0.1	
Decachlorobiphenyl [2C]	40.000	86.0	0 - 200	10.296	10.30529	-0.0093	+/-0.1	
Tetrachlorometaxylene	40.000	91.2	0 - 200	3.814	3.819	-0.0050	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	91.4	0 - 200	4.128	4.135572	-0.0076	+/-0.1	
SLE0106-ICV1 (Water)				Lab File ID: 23050203.D			Analyzed: 05/02/23 14:00	
Decachlorobiphenyl	40.000	78.9	80 - 120	9.358	9.365571	-0.0076	+/-0.1	
Decachlorobiphenyl [2C]	40.000	84.4	80 - 120	10.295	10.30529	-0.0103	+/-0.1	
Tetrachlorometaxylene	40.000	89.0	80 - 120	3.813	3.819	-0.0060	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	89.6	80 - 120	4.127	4.135572	-0.0086	+/-0.1	
BLD0325-BLK1 (Solid)				Lab File ID: 23050213.D			Analyzed: 05/02/23 17:06	
Decachlorobiphenyl	8.0000	59.2	30 - 160	9.358	9.365571	-0.0076	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	72.3	30 - 160	10.296	10.30529	-0.0093	+/-0.1	
Tetrachlorometaxylene	8.0000	48.0	30 - 160	3.811	3.819	-0.0080	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	53.1	30 - 160	4.127	4.135572	-0.0086	+/-0.1	
BLD0325-BS1 (Solid)				Lab File ID: 23050214.D			Analyzed: 05/02/23 17:25	
Decachlorobiphenyl	8.0000	59.6	30 - 160	9.358	9.365571	-0.0076	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	71.6	30 - 160	10.295	10.30529	-0.0103	+/-0.1	
Tetrachlorometaxylene	8.0000	58.9	30 - 160	3.812	3.819	-0.0070	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	56.5	30 - 160	4.126	4.135572	-0.0096	+/-0.1	
BLD0325-BSD1 (Solid)				Lab File ID: 23050215.D			Analyzed: 05/02/23 17:43	
Decachlorobiphenyl	8.0000	60.1	30 - 160	9.358	9.365571	-0.0076	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	70.2	30 - 160	10.296	10.30529	-0.0093	+/-0.1	
Tetrachlorometaxylene	8.0000	56.8	30 - 160	3.812	3.819	-0.0070	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	60.6	30 - 160	4.127	4.135572	-0.0086	+/-0.1	
BLD0325-MS1 (Solid)				Lab File ID: 23050216.D			Analyzed: 05/02/23 18:02	
Decachlorobiphenyl	8.0014	67.6	30 - 160	9.36	9.365571	-0.0056	+/-0.1	
Decachlorobiphenyl [2C]	8.0014	71.0	30 - 160	10.298	10.30529	-0.0073	+/-0.1	
Tetrachlorometaxylene	8.0014	56.5	30 - 160	3.811	3.819	-0.0080	+/-0.1	
Tetrachlorometaxylene [2C]	8.0014	54.8	30 - 160	4.127	4.135572	-0.0086	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0106
Instrument: ECD6
Calibration: GD00035
Calibration Date: 04/12/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0325-MSD1 (Solid)				Lab File ID: 23050217.D			Analyzed: 05/02/23 18:21	
Decachlorobiphenyl	8.0014	71.3	30 - 160	9.36	9.365571	-0.0056	+/-0.1	
Decachlorobiphenyl [2C]	8.0014	80.2	30 - 160	10.297	10.30529	-0.0083	+/-0.1	
Tetrachlorometaxylene	8.0014	56.8	30 - 160	3.811	3.819	-0.0080	+/-0.1	
Tetrachlorometaxylene [2C]	8.0014	63.1	30 - 160	4.127	4.135572	-0.0086	+/-0.1	
23D0136-01 (Solid)				Lab File ID: 23050218.D			Analyzed: 05/02/23 18:39	
Decachlorobiphenyl	7.9856	65.4	30 - 160	9.359	9.365571	-0.0066	+/-0.1	
Decachlorobiphenyl [2C]	7.9856	75.0	30 - 160	10.297	10.30529	-0.0083	+/-0.1	
Tetrachlorometaxylene	7.9856	54.9	30 - 160	3.811	3.819	-0.0080	+/-0.1	
Tetrachlorometaxylene [2C]	7.9856	56.5	30 - 160	4.127	4.135572	-0.0086	+/-0.1	
23D0136-03 (Solid)				Lab File ID: 23050219.D			Analyzed: 05/02/23 18:58	
Decachlorobiphenyl	8.0001	68.7	30 - 160	9.36	9.365571	-0.0056	+/-0.1	
Decachlorobiphenyl [2C]	8.0001	77.5	30 - 160	10.298	10.30529	-0.0073	+/-0.1	
Tetrachlorometaxylene	8.0001	59.3	30 - 160	3.812	3.819	-0.0070	+/-0.1	
Tetrachlorometaxylene [2C]	8.0001	53.8	30 - 160	4.127	4.135572	-0.0086	+/-0.1	
SLE0106-PEM2 (Water)				Lab File ID: 23050220.D			Analyzed: 05/02/23 19:16	
Decachlorobiphenyl	40.000	78.5	0 - 200	9.358	9.365571	-0.0076	+/-0.1	
Decachlorobiphenyl [2C]	40.000	88.6	0 - 200	10.296	10.30529	-0.0093	+/-0.1	
Tetrachlorometaxylene	40.000	86.6	0 - 200	3.813	3.819	-0.0060	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	91.6	0 - 200	4.127	4.135572	-0.0086	+/-0.1	
SLE0106-CCV1 (Water)				Lab File ID: 23050221.D			Analyzed: 05/02/23 19:35	
Decachlorobiphenyl	40.000	77.6	80 - 120	9.358	9.365571	-0.0076	+/-0.1	
Decachlorobiphenyl [2C]	40.000	80.5	80 - 120	10.295	10.30529	-0.0103	+/-0.1	
Tetrachlorometaxylene	40.000	88.9	80 - 120	3.811	3.819	-0.0080	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	89.3	80 - 120	4.127	4.135572	-0.0086	+/-0.1	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0187	Instrument:	ECD6
		Calibration:	GD00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLD0187-ICV1)		(Solid)		Lab File ID: 23041228.D				Analyzed: 04/12/23 22:55	
1-Bromo-2-Nitrobenzene	527944	3.138	527944	3.138	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	428829	9.515	428829	9.515	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	744512	3.287	744512	3.287	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	468235	10.869	468235	10.869	100	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0106
Instrument: ECD6
Calibration: GD00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Performance Mix (SLE0106-PEM1)		(Water)		Lab File ID: 23050202.D				Analyzed: 05/02/23 13:42	
1-Bromo-2-Nitrobenzene	597294	3.133	616264	3.132	97	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	490924	9.509	514817	9.508	95	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	675241	3.281	669299	3.281	101	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	416374	10.859	419050	10.857	99	50 - 200	0.002	+/-0.50	
Initial Cal Check (SLE0106-ICV1)		(Water)		Lab File ID: 23050203.D				Analyzed: 05/02/23 14:00	
1-Bromo-2-Nitrobenzene	616264	3.132	616264	3.132	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	514817	9.508	514817	9.508	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	669299	3.281	669299	3.281	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	419050	10.857	419050	10.857	100	50 - 200	0.000	+/-0.50	
Blank (BLD0325-BLK1)		(Solid)		Lab File ID: 23050213.D				Analyzed: 05/02/23 17:06	
1-Bromo-2-Nitrobenzene	694640	3.131	616264	3.132	113	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	402432	9.507	514817	9.508	78	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	641715	3.281	669299	3.281	96	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	315265	10.86	419050	10.857	75	50 - 200	0.003	+/-0.50	
LCS (BLD0325-BS1)		(Solid)		Lab File ID: 23050214.D				Analyzed: 05/02/23 17:25	
1-Bromo-2-Nitrobenzene	715431	3.131	616264	3.132	116	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	417768	9.507	514817	9.508	81	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	713832	3.28	669299	3.281	107	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	327100	10.858	419050	10.857	78	50 - 200	0.001	+/-0.50	
LCS Dup (BLD0325-BSD1)		(Solid)		Lab File ID: 23050215.D				Analyzed: 05/02/23 17:43	
1-Bromo-2-Nitrobenzene	703657	3.131	616264	3.132	114	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	451092	9.507	514817	9.508	88	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	709244	3.28	669299	3.281	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	334037	10.86	419050	10.857	80	50 - 200	0.003	+/-0.50	
Matrix Spike (BLD0325-MS1)		(Solid)		Lab File ID: 23050216.D				Analyzed: 05/02/23 18:02	
1-Bromo-2-Nitrobenzene	701102	3.131	616264	3.132	114	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	410383	9.511	514817	9.508	80	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	706666	3.28	669299	3.281	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	314558	10.861	419050	10.857	75	50 - 200	0.004	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0106

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ECD6
Calibration: GD00035

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (BLD0325-MSD1)		(Solid)		Lab File ID: 23050217.D			Analyzed: 05/02/23 18:21		
1-Bromo-2-Nitrobenzene	693510	3.131	616264	3.132	113	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	419542	9.511	514817	9.508	81	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	661354	3.28	669299	3.281	99	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	317098	10.861	419050	10.857	76	50 - 200	0.004	+/-0.50	
LDW23-SS1804 (23D0136-01)		(Solid)		Lab File ID: 23050218.D			Analyzed: 05/02/23 18:39		
1-Bromo-2-Nitrobenzene	698789	3.132	616264	3.132	113	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	409047	9.51	514817	9.508	79	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	675008	3.28	669299	3.281	101	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	312046	10.861	419050	10.857	74	50 - 200	0.004	+/-0.50	
LDW23-SS1803 (23D0136-03)		(Solid)		Lab File ID: 23050219.D			Analyzed: 05/02/23 18:58		
1-Bromo-2-Nitrobenzene	665574	3.132	616264	3.132	108	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	400928	9.511	514817	9.508	78	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	677395	3.28	669299	3.281	101	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	300599	10.863	419050	10.857	72	50 - 200	0.006	+/-0.50	
Performance Mix (SLE0106-PEM2)		(Water)		Lab File ID: 23050220.D			Analyzed: 05/02/23 19:16		
1-Bromo-2-Nitrobenzene	617069	3.132	616264	3.132	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	402314	9.508	514817	9.508	78	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	620110	3.281	669299	3.281	93	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	324379	10.86	419050	10.857	77	50 - 200	0.003	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8081B

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/18/23 11:06	12	365	05/02/23 18:39	14	40	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/18/23 11:06	12	365	05/02/23 18:58	14	40	
Matrix Spike BLD0325-MS1	04/05/23 11:45	04/06/23 10:30	04/18/23 11:06	12	365	05/02/23 18:02	14	40	
Matrix Spike Dup BLD0325-MSD1	04/05/23 11:45	04/06/23 10:30	04/18/23 11:06	12	365	05/02/23 18:21	14	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD6

Analyte	MDL	RL	Units
Hexachlorobenzene	0.15	0.50	ug/kg
Hexachlorobenzene [2C]	0.15	0.50	ug/kg

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USA

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CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

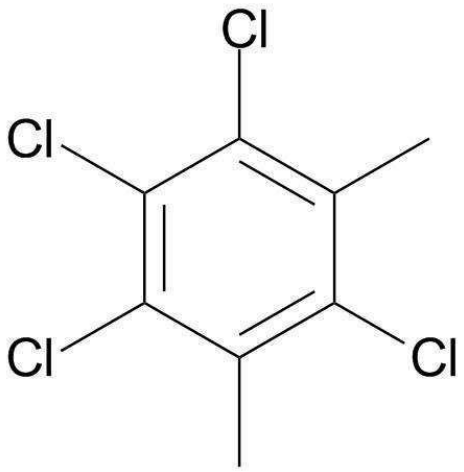
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 5/18

EXPIRED
AccuStandard

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CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

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CERTIFICATE OF ANALYSIS

Catalog No: APP-9-112-D-20X
Description: Hexachlorobenzene in Dichloromethane
Lot: 219051389
Solvent: Dichloromethane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: May 13, 2019
Expiration: May 13, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobenzene	118-74-1	99.0	2002	1982

J006504
Hexachlorobenzene
Solvent / Lot: Dichloromethane
Prep: 6/21/2021 by YZ
Exp: 5/13/2029
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 5/18

1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this [redacted].

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: M-8081-DS
Description: 4,4'-DDT & Endrin
Lot: 221031488-04
Solvent: Hexane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 8, 2022
Expiration: May 8, 2023
Sample Size: 1 mL
Components: 2
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
4,4'-DDT	50-29-3	100.0	200.9	200.9
Endrin	72-20-8	99.8	200.0	199.6

K7002

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

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110 Benner Circle
Bellefonte, PA 16823-8812
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Fax: (814)353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32292 **Lot No.:** A0185477

Description : Organochlorine Pesticide Mix AB # 2

Organochlorine Pesticide Mix AB # 2 8-80 µg/mL, Hexane/Toluene(1:1), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	alpha-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-84-6 (Lot 12307600)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
2	gamma-BHC (Lindane)	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 58-89-9 (Lot 13087200)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
3	beta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-85-7 (Lot 0588007-4)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
4	delta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-86-8 (Lot 13112400)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
5	Heptachlor	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 76-44-8 (Lot 803759)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
6	Aldrin	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 309-00-2 (Lot 12983100)		+/- 0.3702 µg/mL	Unstressed
	Purity 96%		+/- 0.5323 µg/mL	Stressed
7	Heptachlor epoxide (isomer B)	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 1024-57-3 (Lot 13168200)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed

8	trans-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-74-2	(Lot 32943)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
9	cis-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-71-9	(Lot 31766)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
10	Endosulfan I		8.0	µg/mL	+/-	0.0654	µg/mL	Gravimetric
	CAS # 959-98-8	(Lot BCCF4060)			+/-	0.3672	µg/mL	Unstressed
	Purity 99%				+/-	0.5281	µg/mL	Stressed
11	4,4'-DDE		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 72-55-9	(Lot GHYQG)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
12	Dieldrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 60-57-1	(Lot 11129900)			+/-	0.7408	µg/mL	Unstressed
	Purity 98%				+/-	1.0653	µg/mL	Stressed
13	Endrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-20-8	(Lot 13157400)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
14	4,4'-DDD		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-54-8	(Lot HAN02)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
15	Endosulfan II		16.0	µg/mL	+/-	0.1309	µg/mL	Gravimetric
	CAS # 33213-65-9	(Lot 12448900)			+/-	0.7345	µg/mL	Unstressed
	Purity 99%				+/-	1.0562	µg/mL	Stressed
16	4,4'-DDT		16.1	µg/mL	+/-	0.1315	µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 220428JLM)			+/-	0.7378	µg/mL	Unstressed
	Purity 98%				+/-	1.0610	µg/mL	Stressed
17	Endrin aldehyde		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 7421-93-4	(Lot 30720)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
18	Endosulfan sulfate		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 1031-07-8	(Lot BCCB0424)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
19	Methoxychlor		80.2	µg/mL	+/-	0.5781	µg/mL	Gravimetric
	CAS # 72-43-5	(Lot 13027000)			+/-	3.6697	µg/mL	Unstressed
	Purity 98%				+/-	5.2871	µg/mL	Stressed
20	Endrin ketone		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 53494-70-5	(Lot 13026800)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

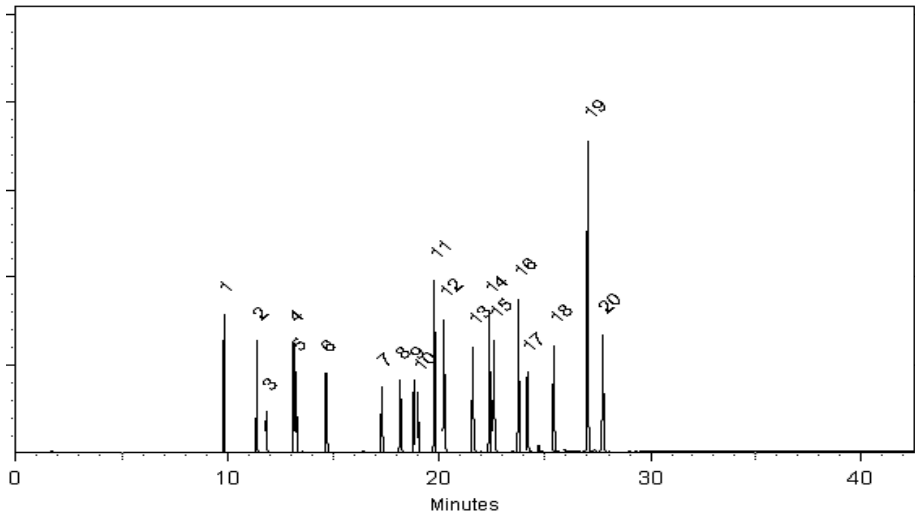
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 19-May-2022 **Balance:** B442140311

Fang-Yun Lo - QC Analyst

Date Passed: 26-May-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

125 Market Street
New Haven, CT 06513
USA

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CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

K 011468

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 7/20

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1804

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23D0136-01 A	File ID:	05022336ECD7.D
Sampled:	04/05/23 11:45	Prepared:	04/18/23 11:37	Analyzed:	05/02/23 23:28
% Solids:	49.34	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.34 g Wet / 2.5 mL
Batch:	BLD0328	Sequence:	SLE0029	Calibration:	GE00002
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	50.8	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	73.8	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	53.6	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9982*	*6.94*	*86.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9982*	*6.01*	*75.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9982*	*6.03*	*75.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9982*	*6.28*	*78.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022336ECD7.D
Data file 2: /230502.b/230502.b/05022336ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23D0136-01RE1
Client ID:
Injection Date: 02-MAY-2023 23:28
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.003	50721	5.645	-0.004	30835	6.0	6.3	4.4	Tetrachloro-m-xylene
13.851	-0.011	46721	14.073	-0.009	40558	6.9	6.0	14.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	577525	3.8
Hexabromobiphenyl	745660	620746	-16.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	349684	0.3
Hexabromobiphenyl	429949	415531	-3.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.365	-0.013	13315	30.1	1	8.268	-0.014	8059	43.9
Aroclor-1248	2	8.536	-0.020	12640	34.2	2	8.675	-0.013	7069	43.8
Aroclor-1248	3	8.954	-0.006	29305	26.5	3	9.117	-0.039	11226	56.7
Aroclor-1248	4	9.255	-0.013	34730	59.9	4	9.539	-0.044	12465	59.0
		Total Col1Ave (4 peaks):			37.7		Total Col2Ave (4 peaks):			50.8 RPD = 30
		Corrected Ave (3 peaks):			30.3		Corrected Ave (3 peaks):			48.1 RPD = 46*
Aroclor-1254	1	9.255	-0.017	34730	55.7	1	9.409	-0.019	20620	78.9
Aroclor-1254	2	9.332	-0.025	18868	63.8	2	9.539	0.013	12465	78.2
Aroclor-1254	3	9.629	-0.017	28999	73.5	3	9.926	-0.022	12299	58.1
Aroclor-1254	4	9.758	-0.028	47451	59.2	4	10.078	-0.028	33984	74.2
Aroclor-1254	5	10.098	-0.062	32506	54.9	5	10.324	-0.029	42097	79.9
		Total Col1Ave (5 peaks):			61.4		Total Col2Ave (5 peaks):			73.9 RPD = 18
		Corrected Ave (4 peaks):			58.4		Corrected Ave (4 peaks):			72.3 RPD = 21
					63.05					
Aroclor-1260	1	11.001	-0.015	18051	51.5	1	11.611	-0.014	18552	62.8
Aroclor-1260	2	11.316	-0.018	15064	42.4	2	11.871	-0.020	28674	37.0
Aroclor-1260	3	11.689	-0.023	43508	47.2	3	12.387	-0.019	13333	75.5
Aroclor-1260	4	12.089	-0.029	20852	45.6	4	12.454	-0.021	20685	39.1
Aroclor-1260	5	12.202	-0.014	8637	41.1	NS	---			----
		Total Col1Ave (5 peaks):			45.6		Total Col2Ave (4 peaks):			53.6 RPD = 16
		Corrected Ave (4 peaks):			44.1		Corrected Ave (3 peaks):			46.3 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.866 - 13.762) = 946258 Col1 Total PCB = 0.1 ppm*

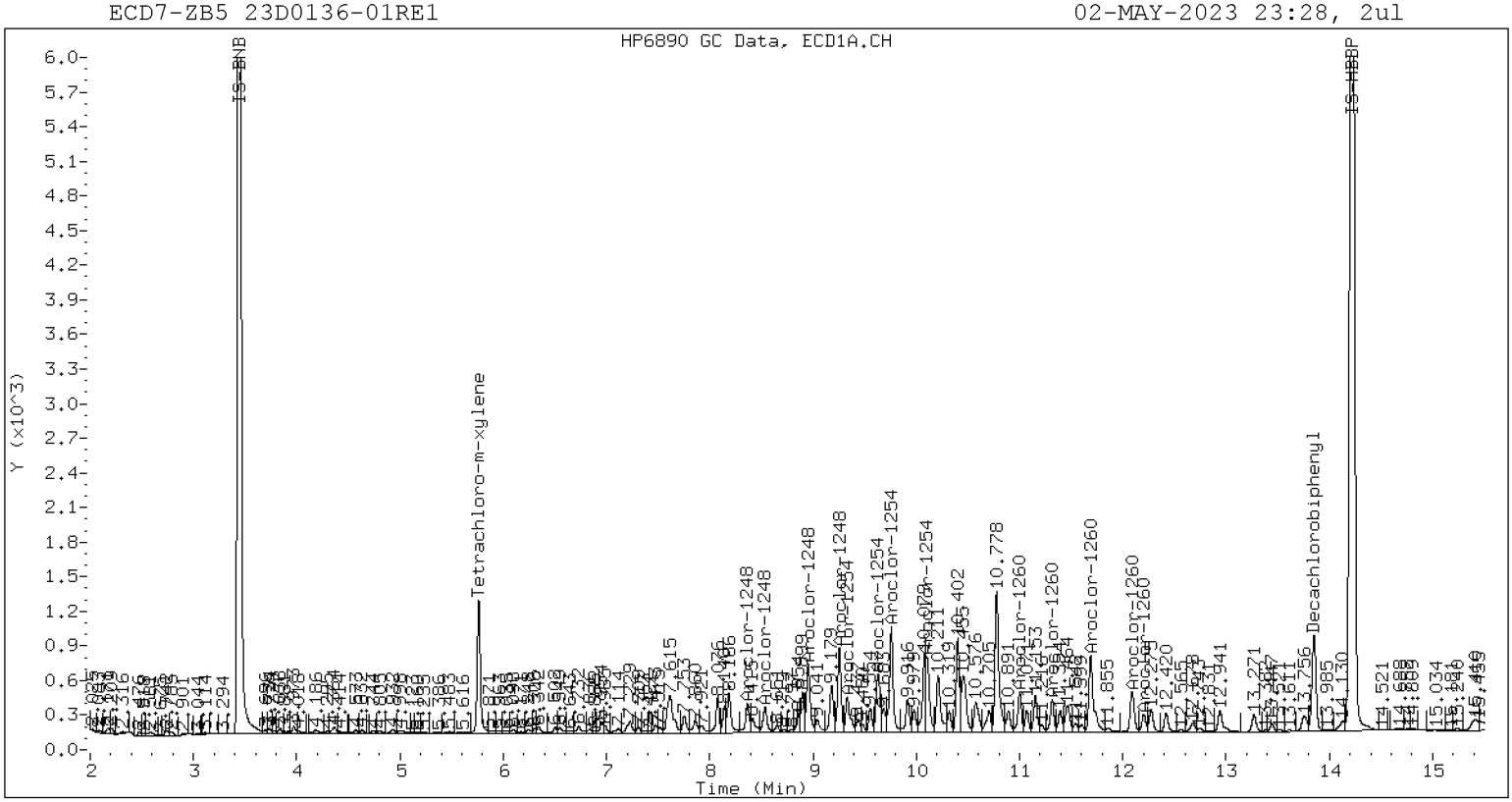
Total PCB Area Col2 (5.749 - 13.983) = 611613 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

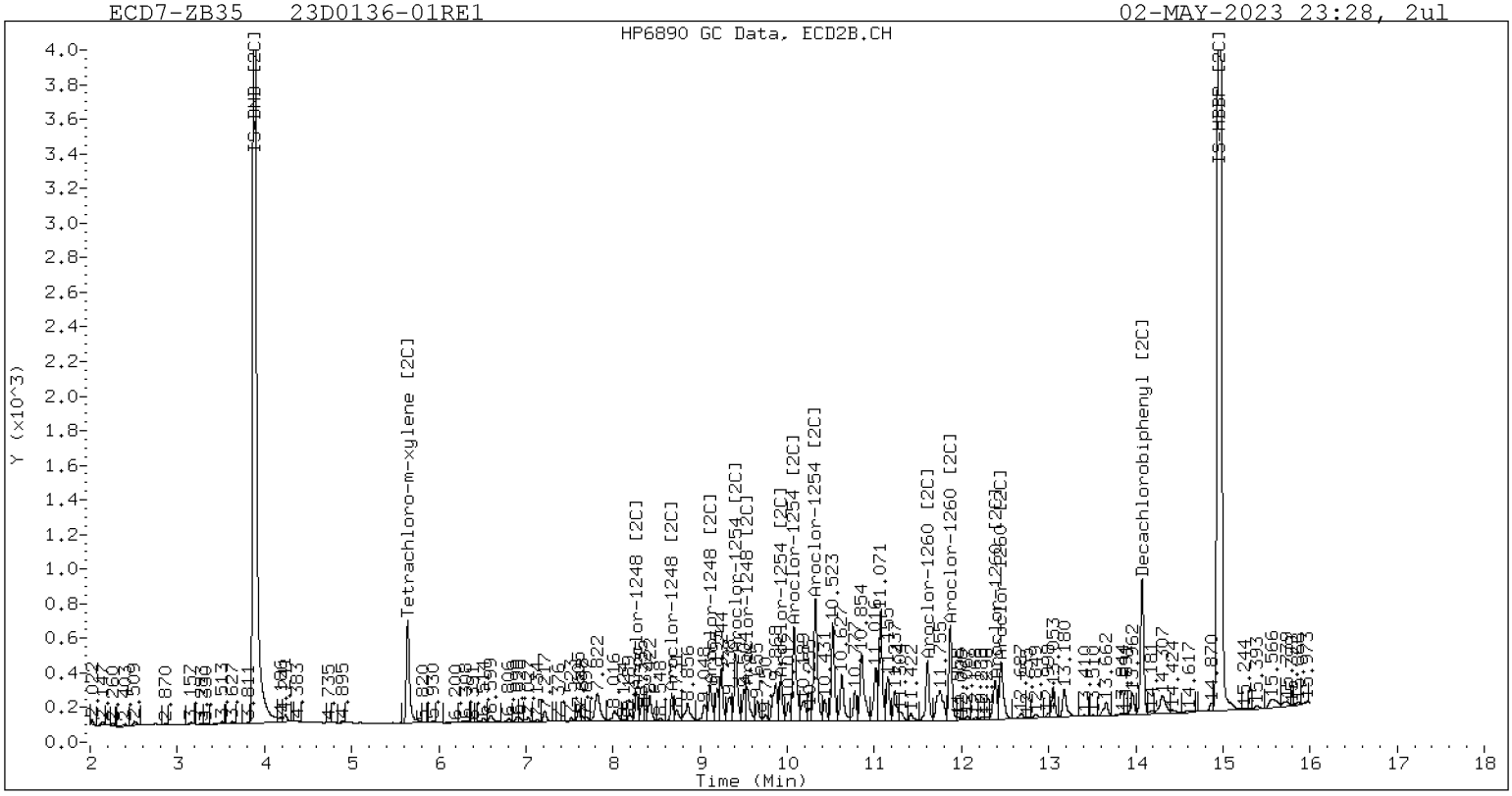
PCB Dual Column Chromatograms

ECD7-ZB5 23D0136-01RE1 02-MAY-2023 23:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23D0136-01RE1 02-MAY-2023 23:28, 2ul

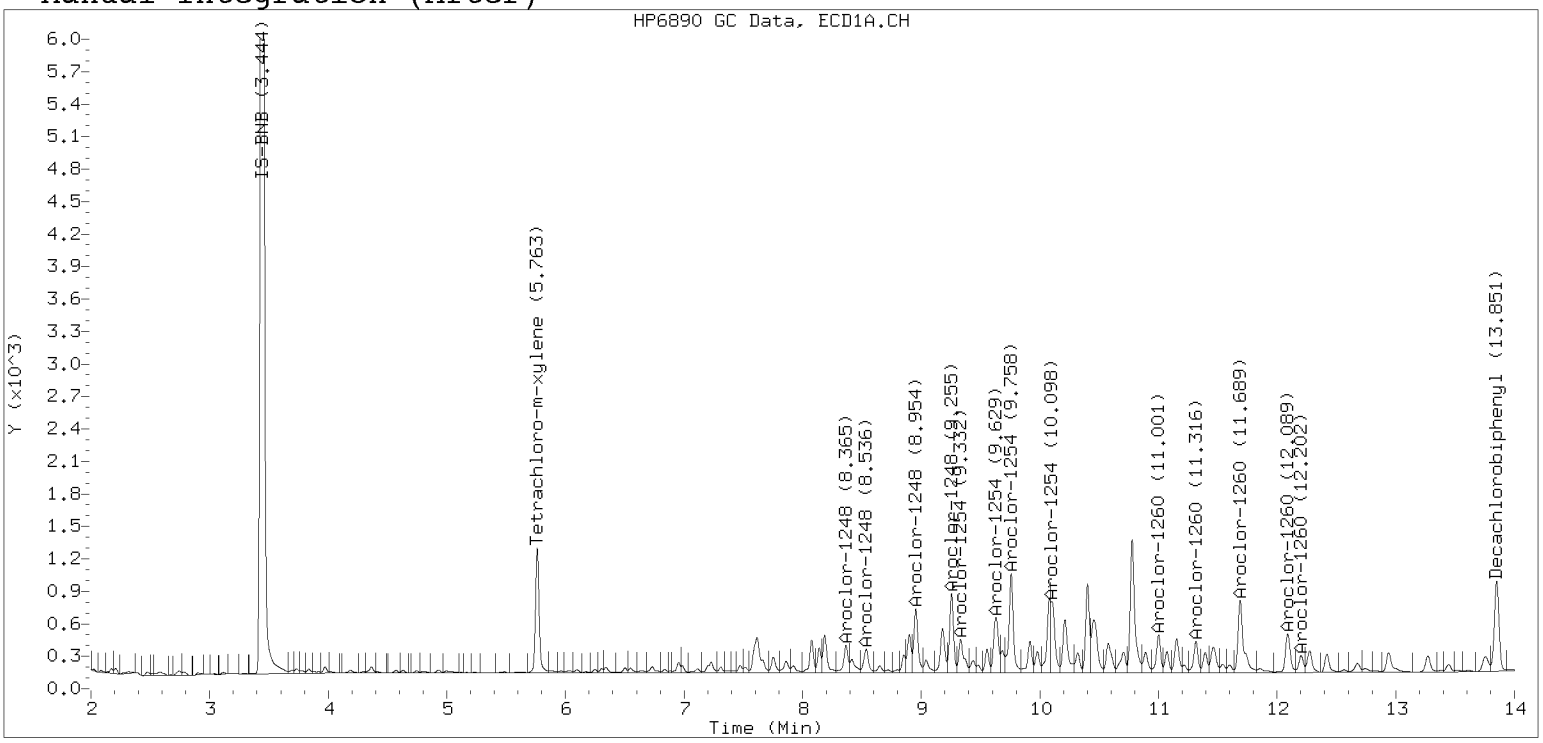


ZB-35 Manual Integration: NO

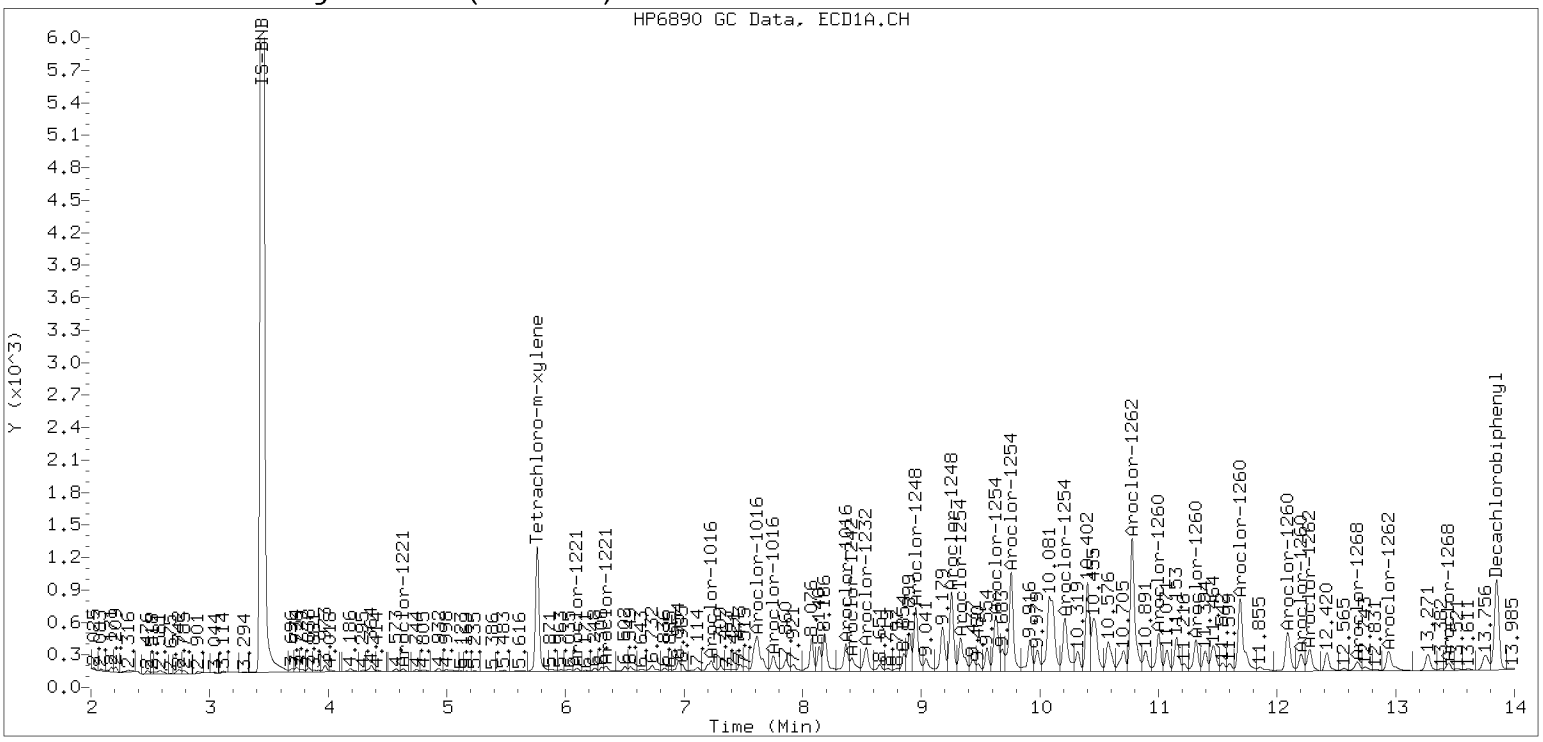
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230502.b/05022336ECD7.D Injection Date: 02-MAY-2023 23:28

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1804

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23D0136-02 A	File ID:	05022337ECD7.D
Sampled:	04/05/23 12:15	Prepared:	04/18/23 11:37	Analyzed:	05/02/23 23:49
% Solids:	49.62	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.2 g Wet / 2.5 mL
Batch:	BLD0328	Sequence:	SLE0029	Calibration:	GE00002
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	43.2	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	61.9	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	42.1	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9973*	*7.49*	*93.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9973*	*6.14*	*76.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9973*	*6.07*	*75.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9973*	*6.21*	*77.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022337ECD7.D
Data file 2: /230502.b/230502.b/05022337ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23D0136-02RE1
Client ID:
Injection Date: 02-MAY-2023 23:49
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.002	52365	5.645	-0.004	30965	6.1	6.2	1.0	Tetrachloro-m-xylene
13.852	-0.010	50756	14.074	-0.008	41195	7.5	6.1	21.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	583001	4.8
Hexabromobiphenyl	745660	625284	-16.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	355322	2.0
Hexabromobiphenyl	429949	419266	-2.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.366	-0.012	9805	22.0	1	8.269	-0.013	7252	38.9
Aroclor-1248	2	8.536	-0.020	9629	25.8	2	8.675	-0.013	6419	39.1
Aroclor-1248	3	8.955	-0.005	24854	22.3	3	9.117	-0.039	9531	47.4
Aroclor-1248	4	9.256	-0.012	29189	49.9	4	9.538	-0.045	10214	47.6
		Total Col1Ave (4 peaks):			30.0		Total Col2Ave (4 peaks):			43.2 RPD = 36
		Corrected Ave (3 peaks):			23.4		Corrected Ave (3 peaks):			41.8 RPD = 57*
Aroclor-1254	1	9.256	-0.016	29189	46.4	1	9.409	-0.019	17398	65.5
Aroclor-1254	2	9.333	-0.024	14290	47.9	2	9.538	0.012	10214	63.1
Aroclor-1254	3	9.631	-0.015	24475	61.5	3	9.927	-0.022	10402	48.4
Aroclor-1254	4	9.759	-0.027	40813	50.5	4	10.078	-0.027	29799	64.0
Aroclor-1254	5	10.096	-0.064	23285	39.0	5	10.324	-0.029	36736	68.7
		Total Col1Ave (5 peaks):			49.0		Total Col2Ave (5 peaks):			61.9 RPD = 23
		Corrected Ave (4 peaks):			45.9		Corrected Ave (4 peaks):			60.2 RPD = 27
					51.575					
Aroclor-1260	1	11.002	-0.015	14925	42.3	1	11.611	-0.014	16356	54.8
Aroclor-1260	2	11.315	-0.018	11254	31.4	2	11.872	-0.019	27455	35.1
Aroclor-1260	3	11.689	-0.023	28562	30.7	3	12.377	-0.029	20364	114.2
Aroclor-1260	4	12.089	-0.029	17349	37.6	4	12.455	-0.020	19386	36.3
Aroclor-1260	5	12.203	-0.013	7540	35.7	NS	---			----
		Total Col1Ave (5 peaks):			35.5		Total Col2Ave (4 peaks):			60.1 RPD = 51*
		Corrected Ave (4 peaks):			33.9		Corrected Ave (3 peaks):			42.1 RPD = 22
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.866 - 13.762) = 782799 Col1 Total PCB = 0.1 ppm*

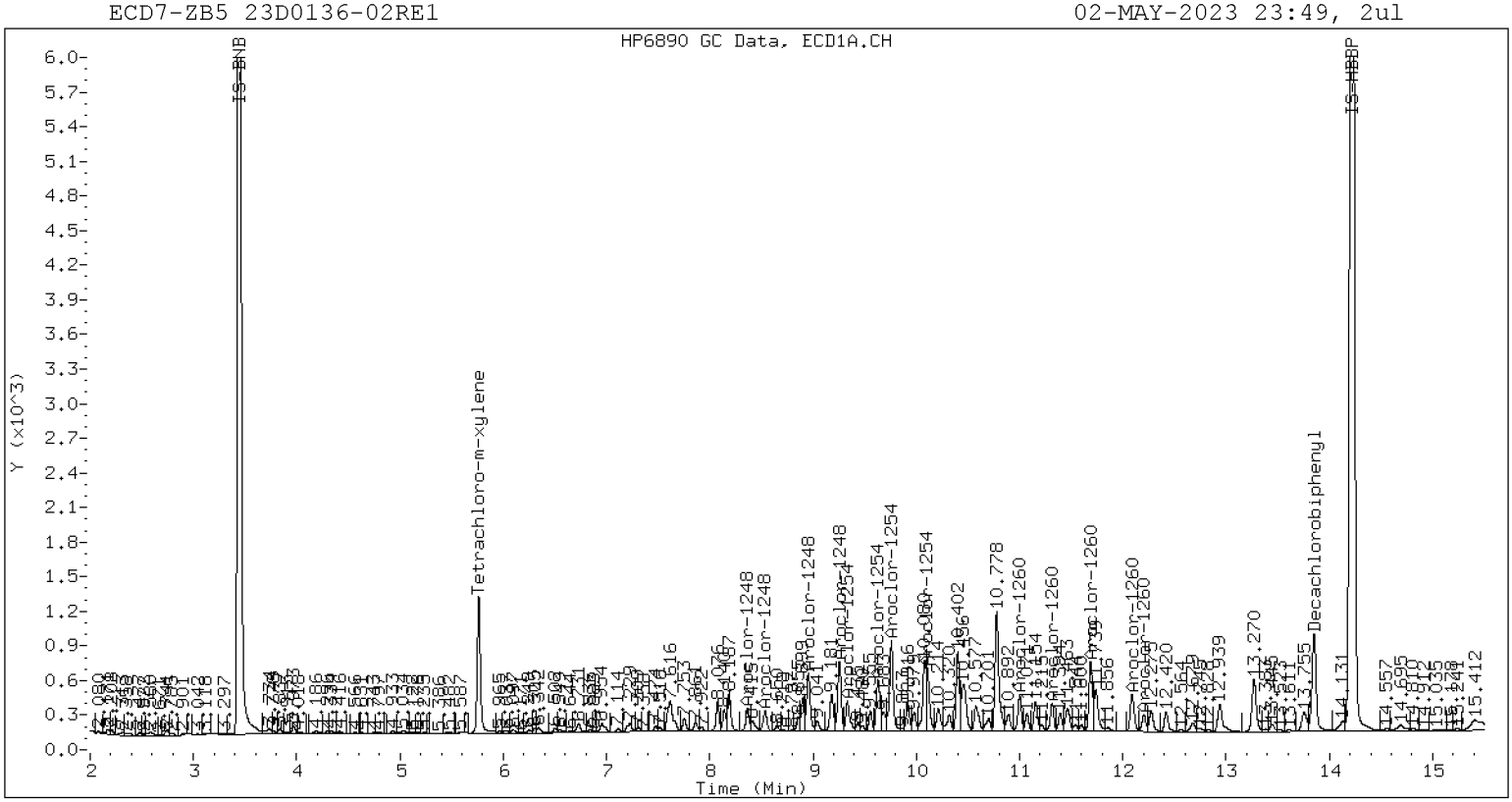
Total PCB Area Col2 (5.749 - 13.983) = 551608 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

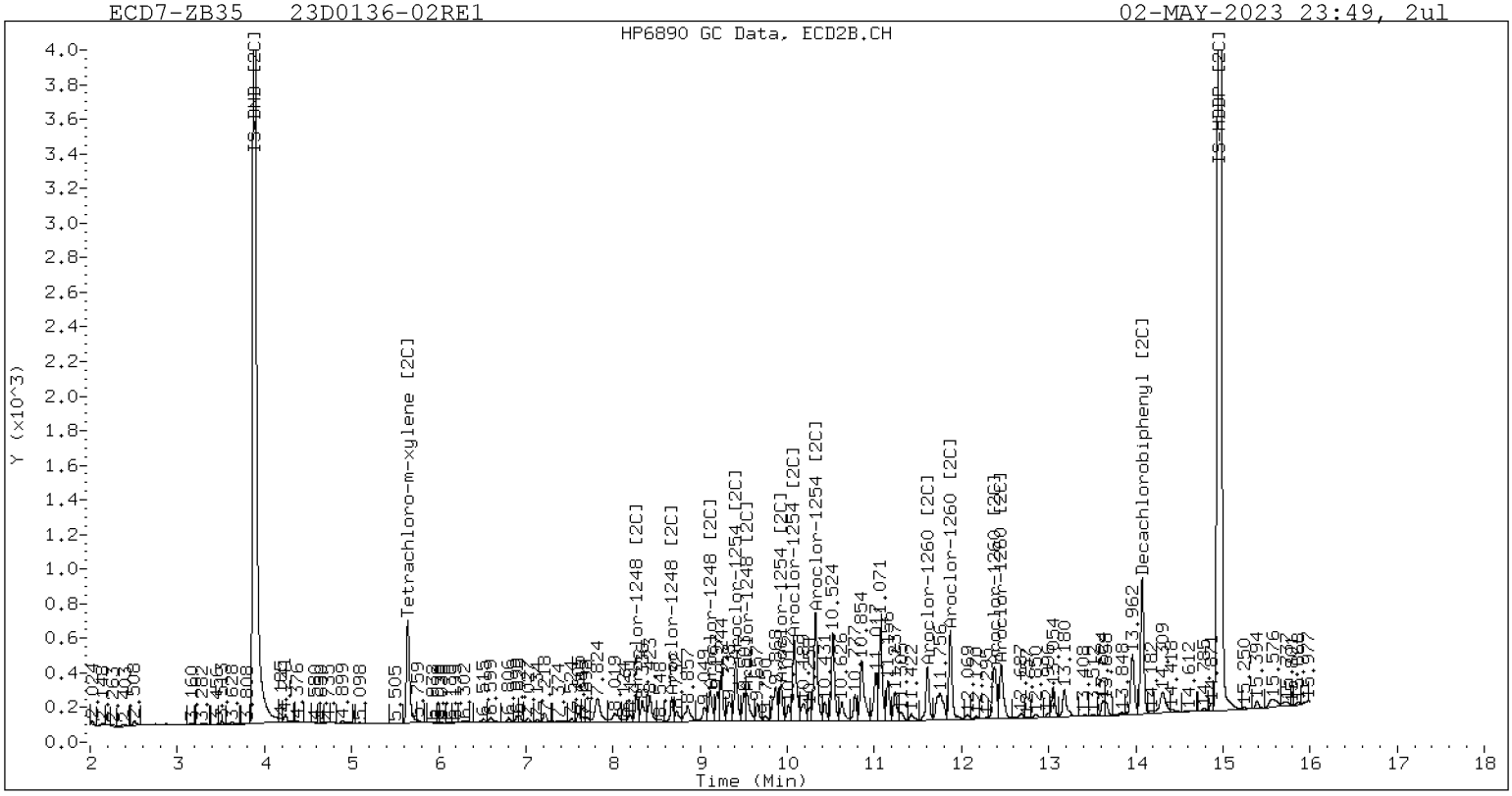
PCB Dual Column Chromatograms

ECD7-ZB5 23D0136-02RE1 02-MAY-2023 23:49, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23D0136-02RE1 02-MAY-2023 23:49, 2ul

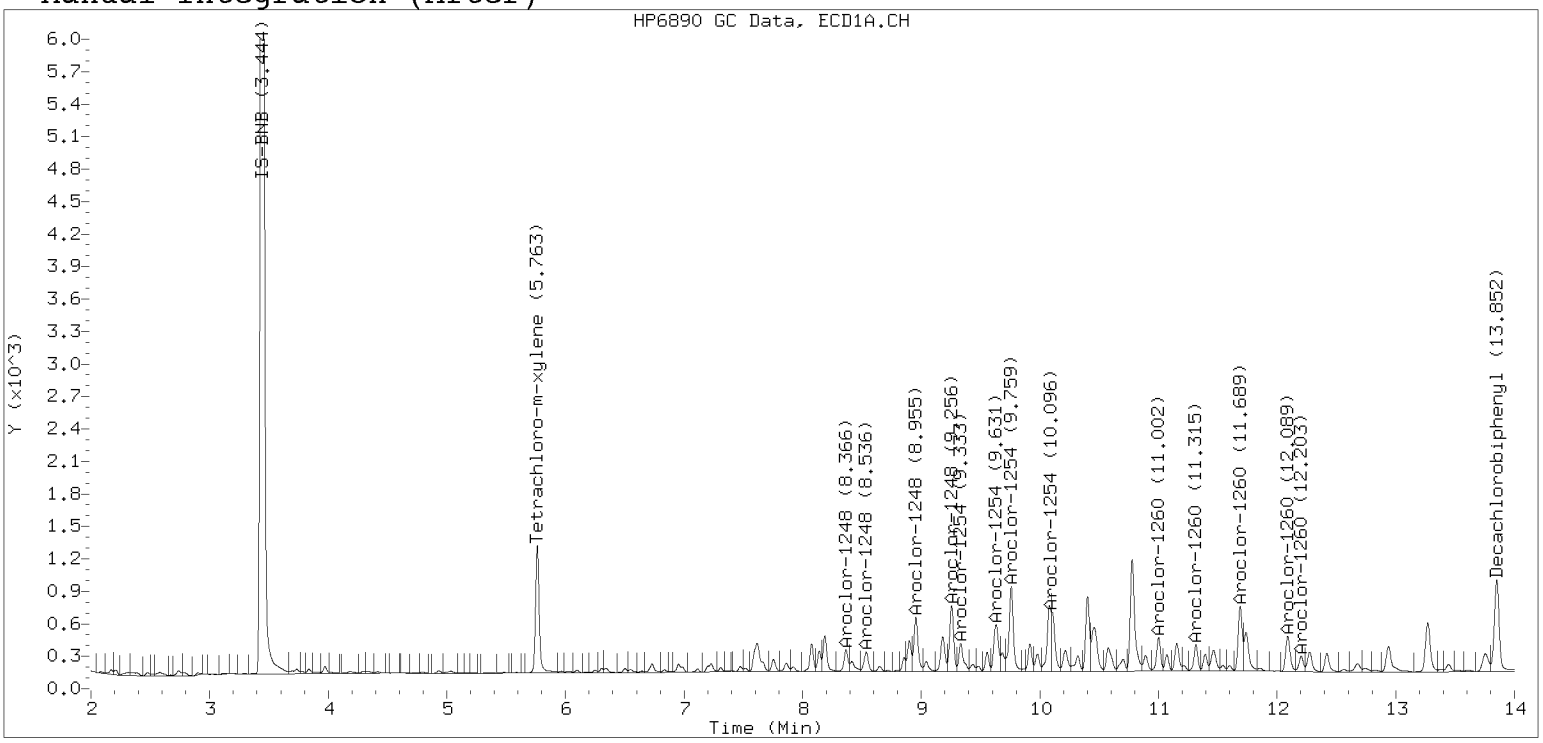


ZB-35 Manual Integration: NO

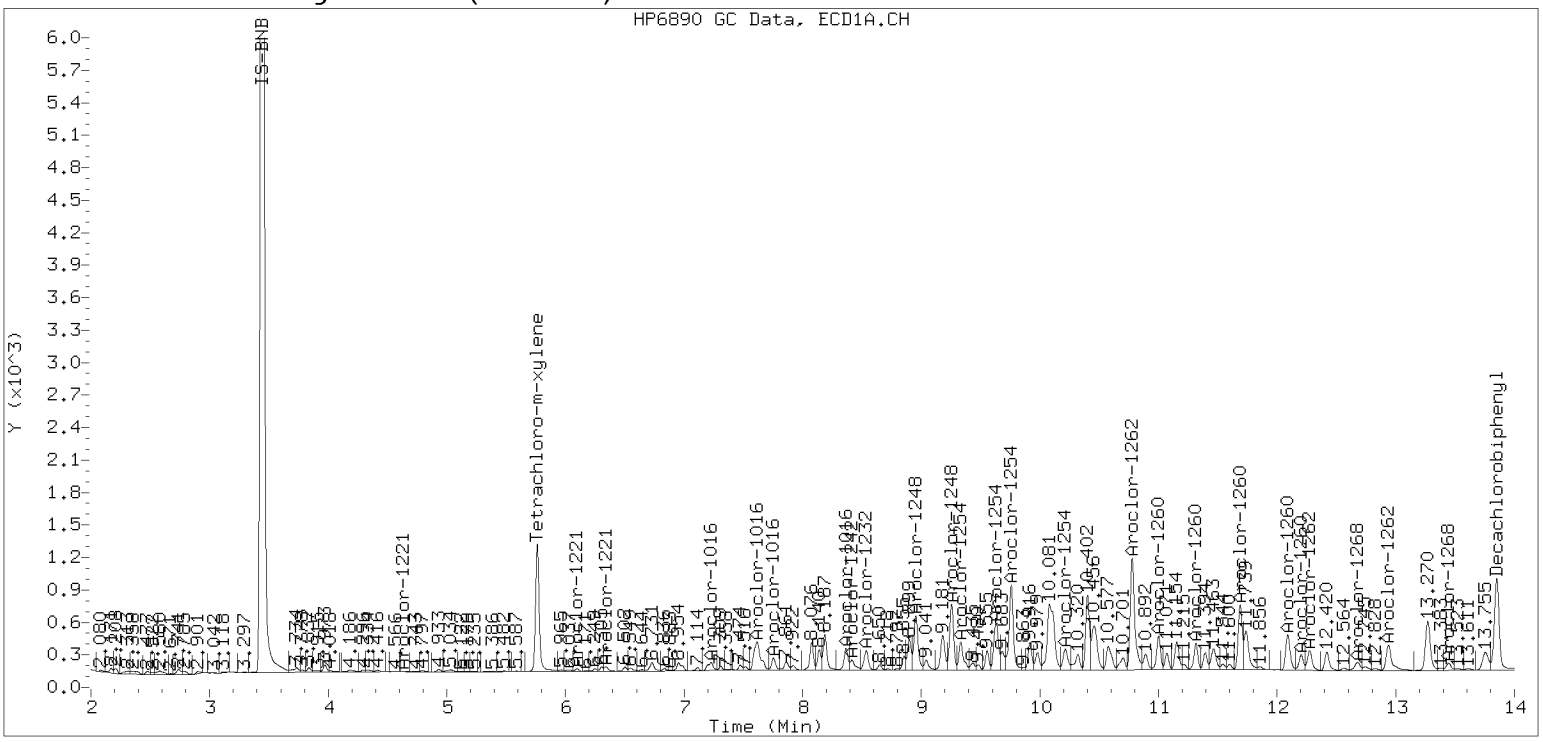
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230502.b/05022337ECD7.D Injection Date: 02-MAY-2023 23:49

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1803

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23D0136-03 A	File ID:	05022340ECD7.D
Sampled:	04/05/23 16:05	Prepared:	04/18/23 11:37	Analyzed:	05/03/23 00:51
% Solids:	44.31	Preparation:	EPA 3546 (Microwave)	Initial/Final:	28.24 g Wet / 2.5 mL
Batch:	BLD0328	Sequence:	SLE0029	Calibration:	GE00002
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	52.8	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	76.5	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	55.5	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9916*	*6.27*	*78.5*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9916*	*5.33*	*66.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9916*	*5.50*	*68.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9916*	*5.51*	*68.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022340ECD7.D
Data file 2: /230502.b/230502.b/05022340ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23D0136-03RE1
Client ID:
Injection Date: 03-MAY-2023 00:51
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.003	45243	5.645	-0.004	27247	5.3	5.5	3.3	Tetrachloro-m-xylene
13.852	-0.010	41833	14.073	-0.009	36632	6.3	5.5	13.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	580285	4.3
Hexabromobiphenyl	745660	614670	-17.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	351909	1.0
Hexabromobiphenyl	429949	410688	-4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.366	-0.012	11877	26.8	1	8.269	-0.013	9125	49.4
Aroclor-1248	2	8.536	-0.020	11576	31.1	2	8.675	-0.013	8222	50.6
Aroclor-1248	3	8.954	-0.006	29819	26.9	3	9.117	-0.039	12215	61.3
Aroclor-1248	4	9.256	-0.012	35366	60.7	4	9.537	-0.046	12500	58.8
	Total Col1Ave (4 peaks):				36.4	Total Col2Ave (4 peaks):				55.0 RPD = 41*
	Corrected Ave (3 peaks):				28.3	Corrected Ave (3 peaks):				52.9 RPD = 61*
Aroclor-1254	1	9.256	-0.017	35366	56.4	1	9.408	-0.019	21368	81.2
Aroclor-1254	2	9.332	-0.024	17141	57.7	2	9.537	0.011	12500	78.0
Aroclor-1254	3	9.629	-0.016	29147	73.5	3	9.926	-0.022	13323	62.6
Aroclor-1254	4	9.758	-0.028	48261	59.9	4	10.078	-0.027	35799	77.6
Aroclor-1254	5	10.104	-0.057	29225	49.1	5	10.324	-0.029	44306	83.6
	Total Col1Ave (5 peaks):				59.4	Total Col2Ave (5 peaks):				76.6 RPD = 25
	Corrected Ave (4 peaks):				55.8	Corrected Ave (4 peaks):				74.8 RPD = 29
					61.875					
Aroclor-1260	1	11.002	-0.014	17579	50.7	1	11.611	-0.014	19323	66.1
Aroclor-1260	2	11.316	-0.018	14859	42.2	2	11.872	-0.019	29400	38.3
Aroclor-1260	3	11.689	-0.022	43436	47.5	3	12.386	-0.020	13445	77.0
Aroclor-1260	4	12.089	-0.029	21262	46.9	4	12.455	-0.020	21329	40.8
Aroclor-1260	5	12.203	-0.013	8802	42.3	NS	---			----
	Total Col1Ave (5 peaks):				45.9	Total Col2Ave (4 peaks):				55.6 RPD = 19
	Corrected Ave (4 peaks):				44.8	Corrected Ave (3 peaks):				48.4 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 909093 Col1 Total PCB = 0.1 ppm*

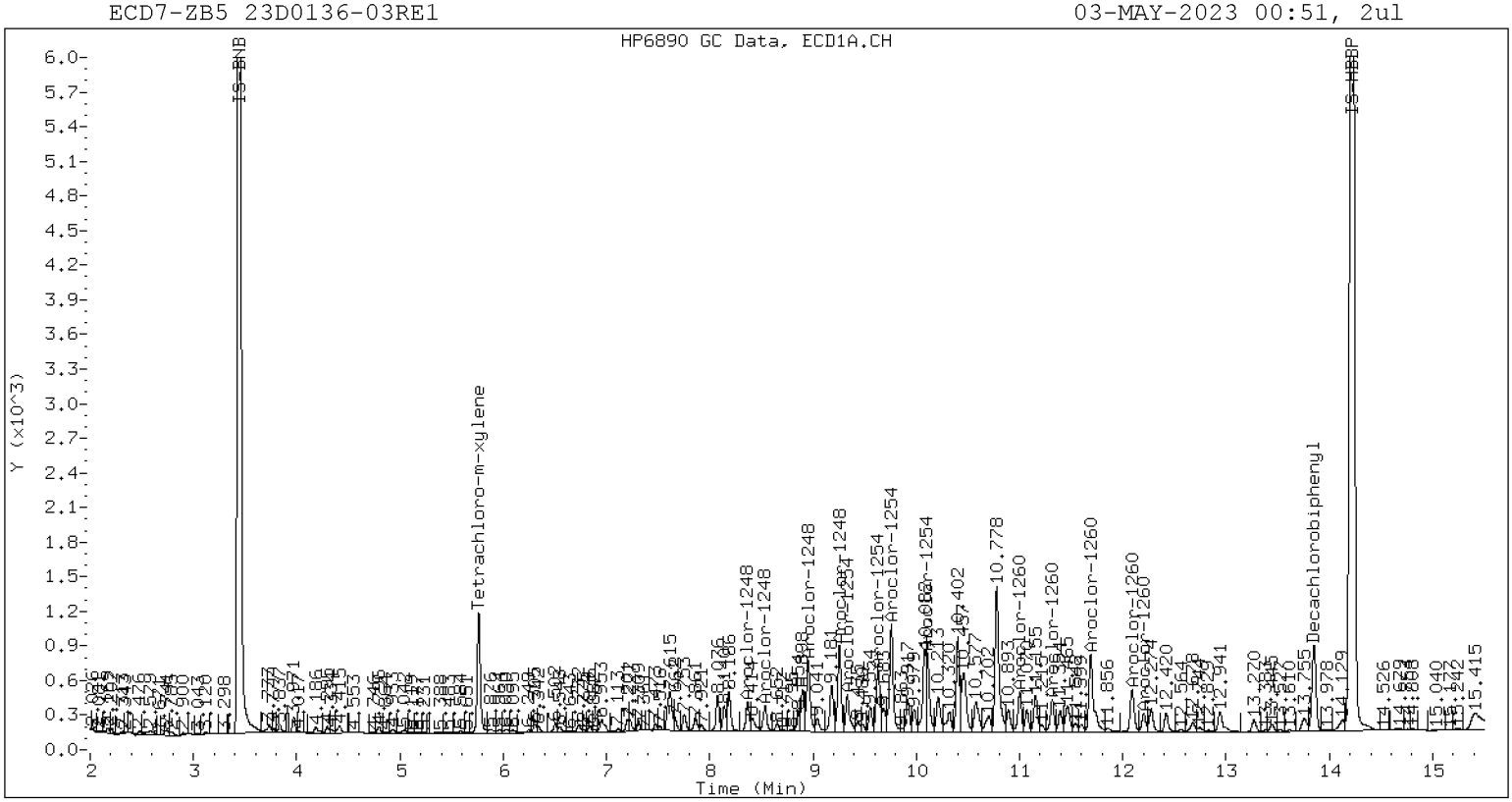
Total PCB Area Col2 (5.749 - 13.983) = 660314 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

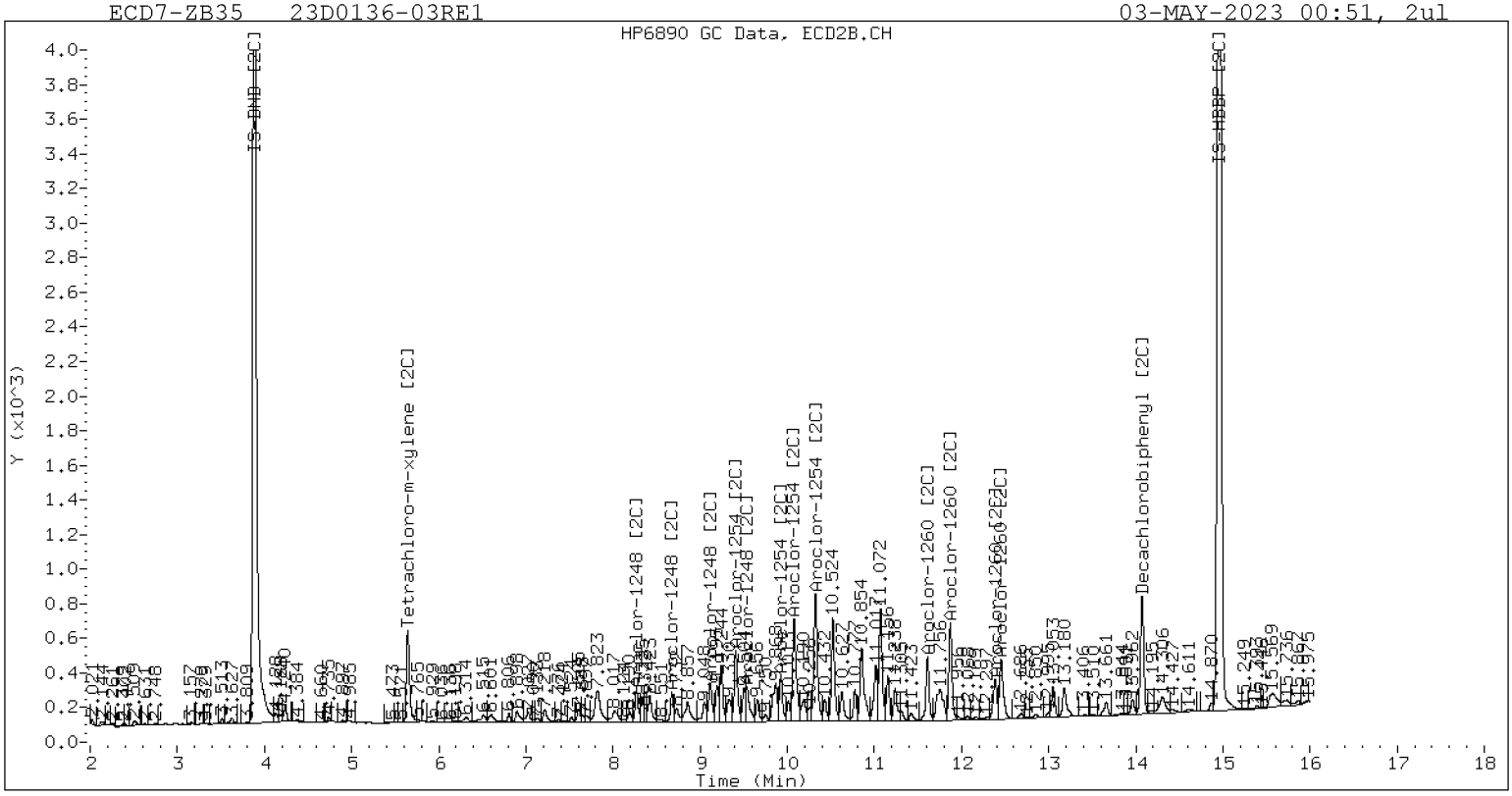
PCB Dual Column Chromatograms

ECD7-ZB5 23D0136-03RE1 03-MAY-2023 00:51, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23D0136-03RE1 03-MAY-2023 00:51, 2ul

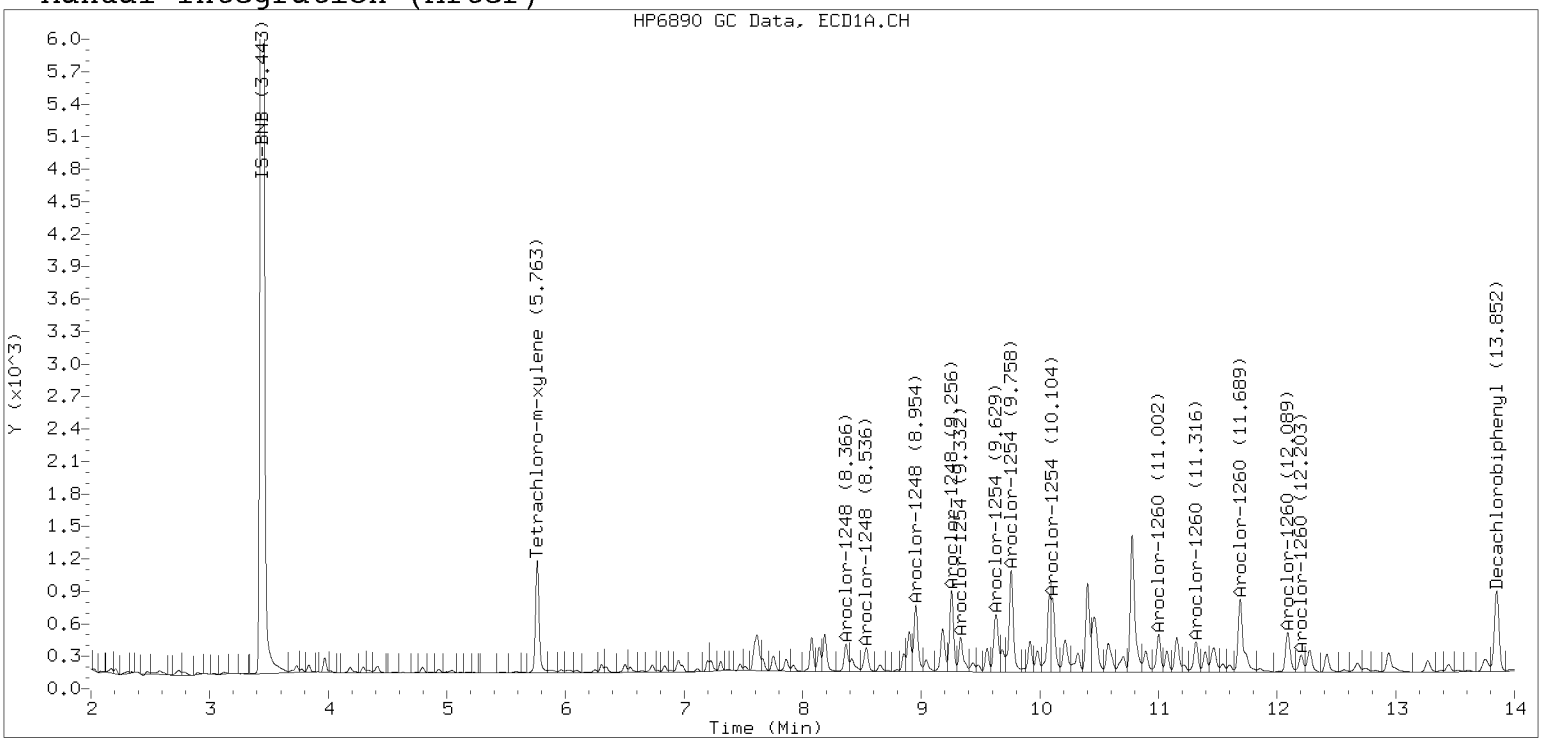


ZB-35 Manual Integration: NO

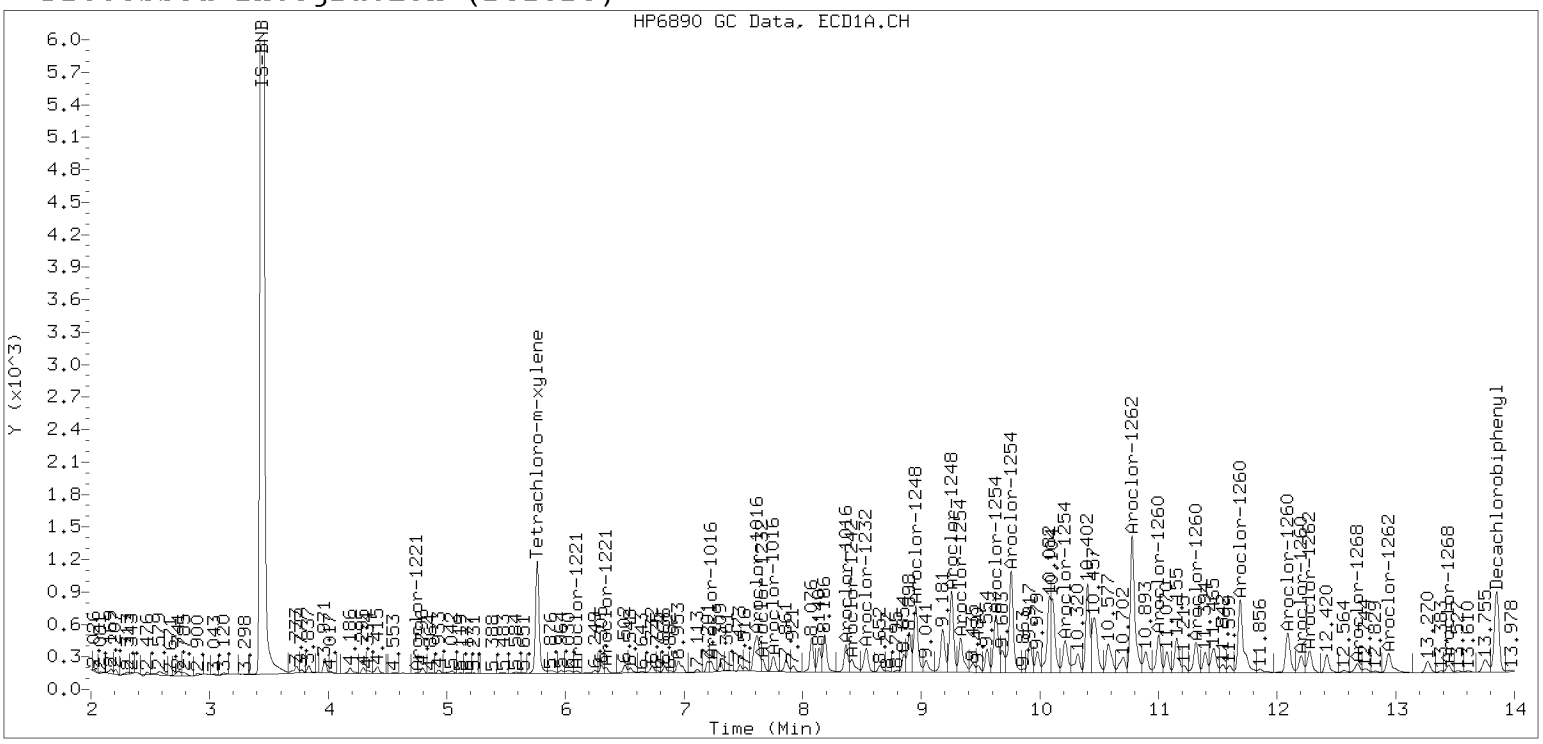
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230502.b/05022340ECD7.D Injection Date: 03-MAY-2023 00:51

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1803

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23D0136-04 A	File ID:	05022341ECD7.D
Sampled:	04/05/23 16:30	Prepared:	04/18/23 11:37	Analyzed:	05/03/23 01:12
% Solids:	49.02	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.5 g Wet / 2.5 mL
Batch:	BLD0328	Sequence:	SLE0029	Calibration:	GE00002
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	41.9	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	62.5	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	51.5	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9999*	*6.12*	*76.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9999*	*5.46*	*68.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9999*	*5.42*	*67.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9999*	*5.54*	*69.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022341ECD7.D
Data file 2: /230502.b/230502.b/05022341ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23D0136-04RE1
Client ID:
Injection Date: 03-MAY-2023 01:12
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.003	46172	5.645	-0.004	27461	5.5	5.5	1.5	Tetrachloro-m-xylene
13.852	-0.009	41285	14.073	-0.009	35698	6.1	5.4	12.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	578926	4.1
Hexabromobiphenyl	745660	621847	-16.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	352942	1.3
Hexabromobiphenyl	429949	406912	-5.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.367	-0.011	10758	24.3	1	8.270	-0.012	7336	39.6
Aroclor-1248	2	8.537	-0.019	10971	29.6	2	8.677	-0.011	5945	36.5
Aroclor-1248	3	8.955	-0.005	27544	24.9	3	9.120	-0.036	9402	47.0
Aroclor-1248	4	9.257	-0.011	31755	54.6	4	9.538	-0.045	9474	44.4
		Total Col1Ave (4 peaks):			33.3		Total Col2Ave (4 peaks):			41.9 RPD = 23
		Corrected Ave (3 peaks):			26.3		Corrected Ave (3 peaks):			40.2 RPD = 42*
Aroclor-1254	1	9.257	-0.015	31755	50.8	1	9.410	-0.018	17467	66.2
Aroclor-1254	2	9.333	-0.023	15918	53.7	2	9.538	0.012	9474	58.9
Aroclor-1254	3	9.631	-0.015	25257	63.9	3	9.927	-0.021	10538	49.3
Aroclor-1254	4	9.759	-0.026	43896	54.7	4	10.080	-0.026	30813	66.6
Aroclor-1254	5	10.106	-0.055	25641	~~43.2~~ 55.775	5	10.326	-0.028	37905	71.3
		Total Col1Ave (5 peaks):			53.2		Total Col2Ave (5 peaks):			62.5 RPD = 16
		Corrected Ave (4 peaks):			50.6		Corrected Ave (4 peaks):			60.3 RPD = 17
Aroclor-1260	1	11.002	-0.014	17665	50.3	1	11.611	-0.014	17444	60.3
Aroclor-1260	2	11.317	-0.017	13286	37.3	2	11.873	-0.018	27946	36.8
Aroclor-1260	3	11.690	-0.021	39171	42.4	3	12.389	-0.016	11907	68.8
Aroclor-1260	4	12.091	-0.028	19896	43.4	4	12.455	-0.019	20848	40.3
Aroclor-1260	5	12.203	-0.013	8764	41.7	NS	---			----
		Total Col1Ave (5 peaks):			43.0		Total Col2Ave (4 peaks):			51.5 RPD = 18
		Corrected Ave (4 peaks):			41.2		Corrected Ave (3 peaks):			45.8 RPD = 11
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.866 - 13.762) = 842388 Col1 Total PCB = 0.1 ppm*

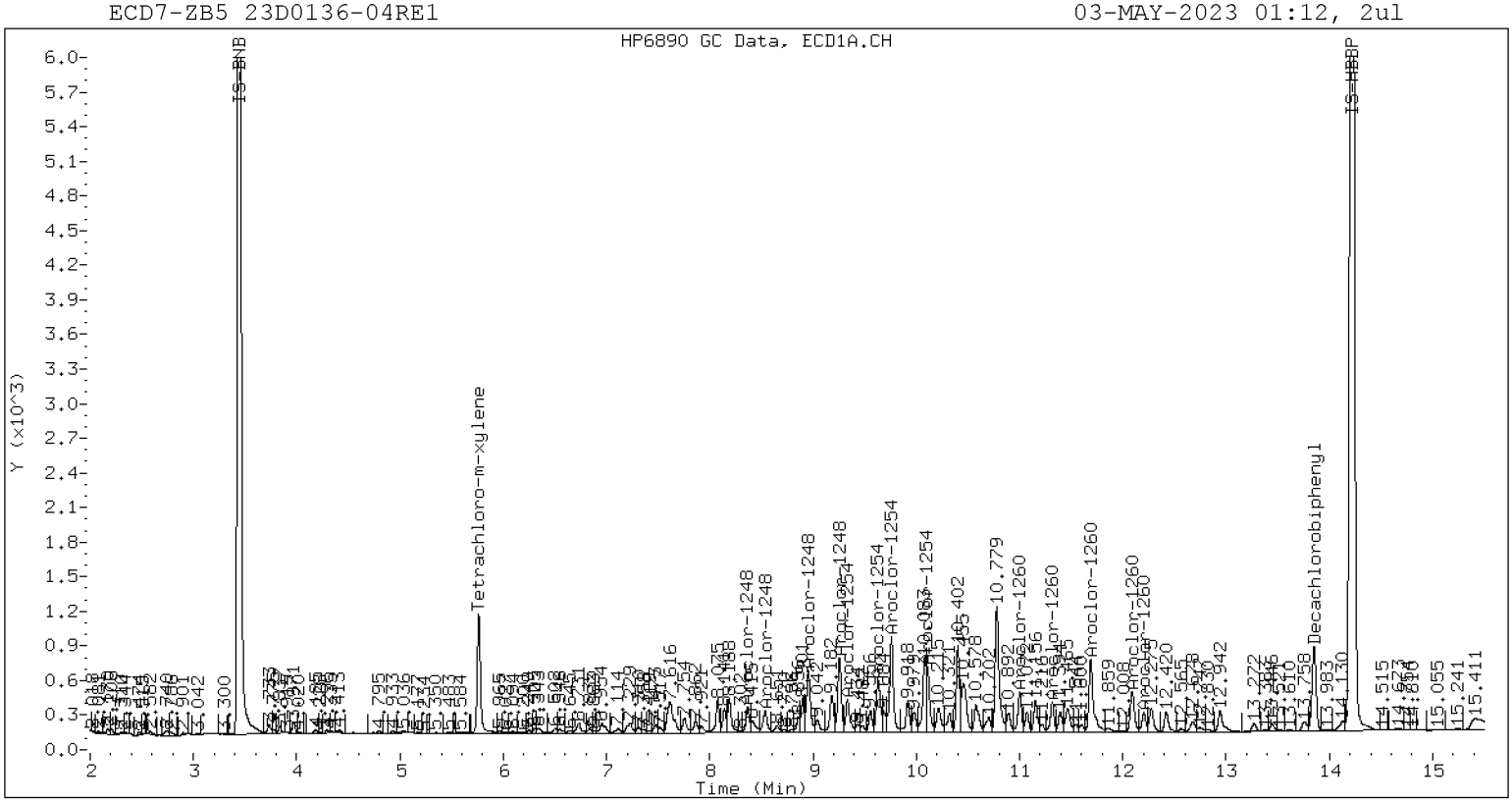
Total PCB Area Col2 (5.749 - 13.983) = 547806 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

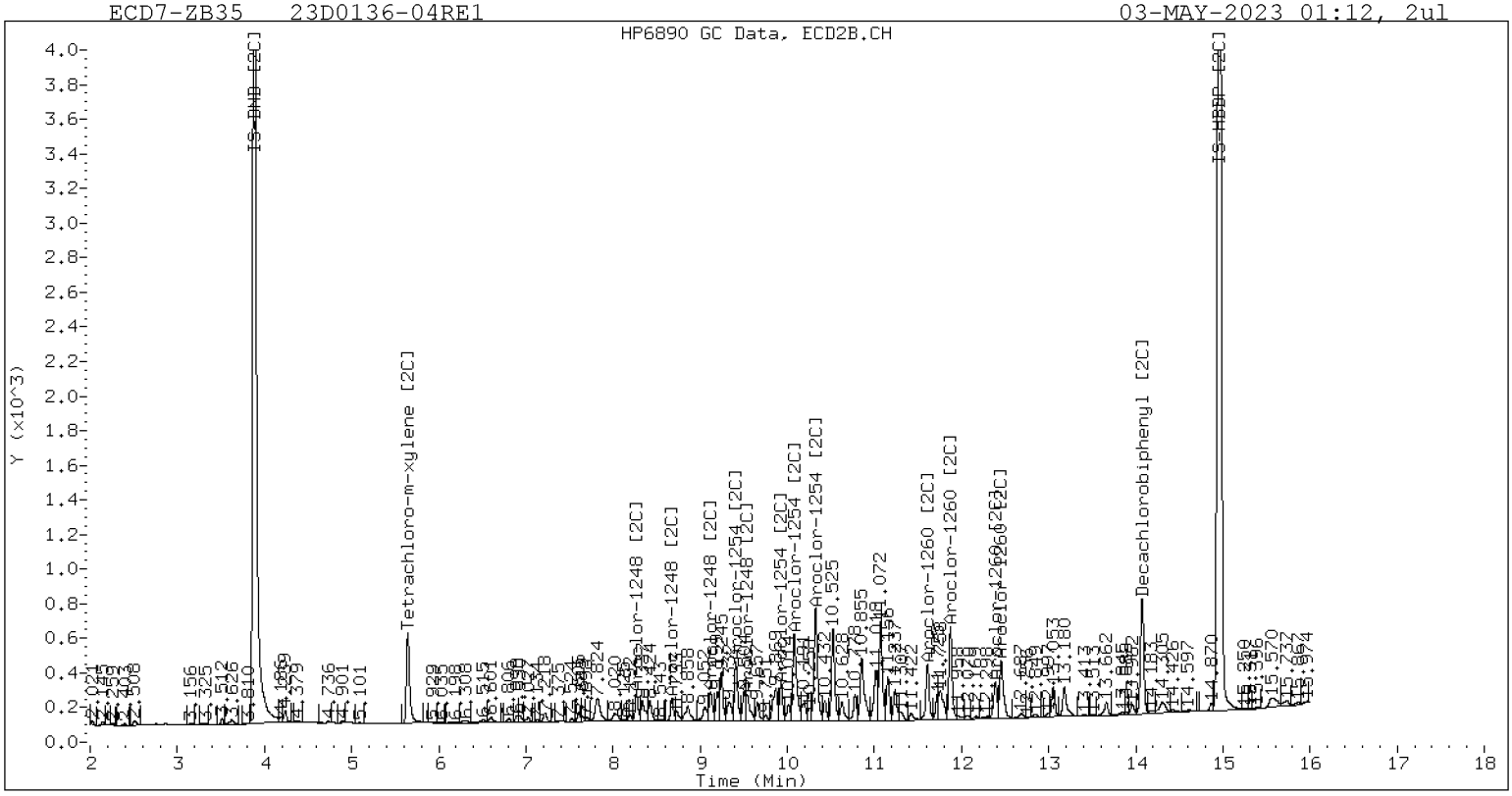
PCB Dual Column Chromatograms

ECD7-ZB5 23D0136-04RE1 03-MAY-2023 01:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23D0136-04RE1 03-MAY-2023 01:12, 2ul

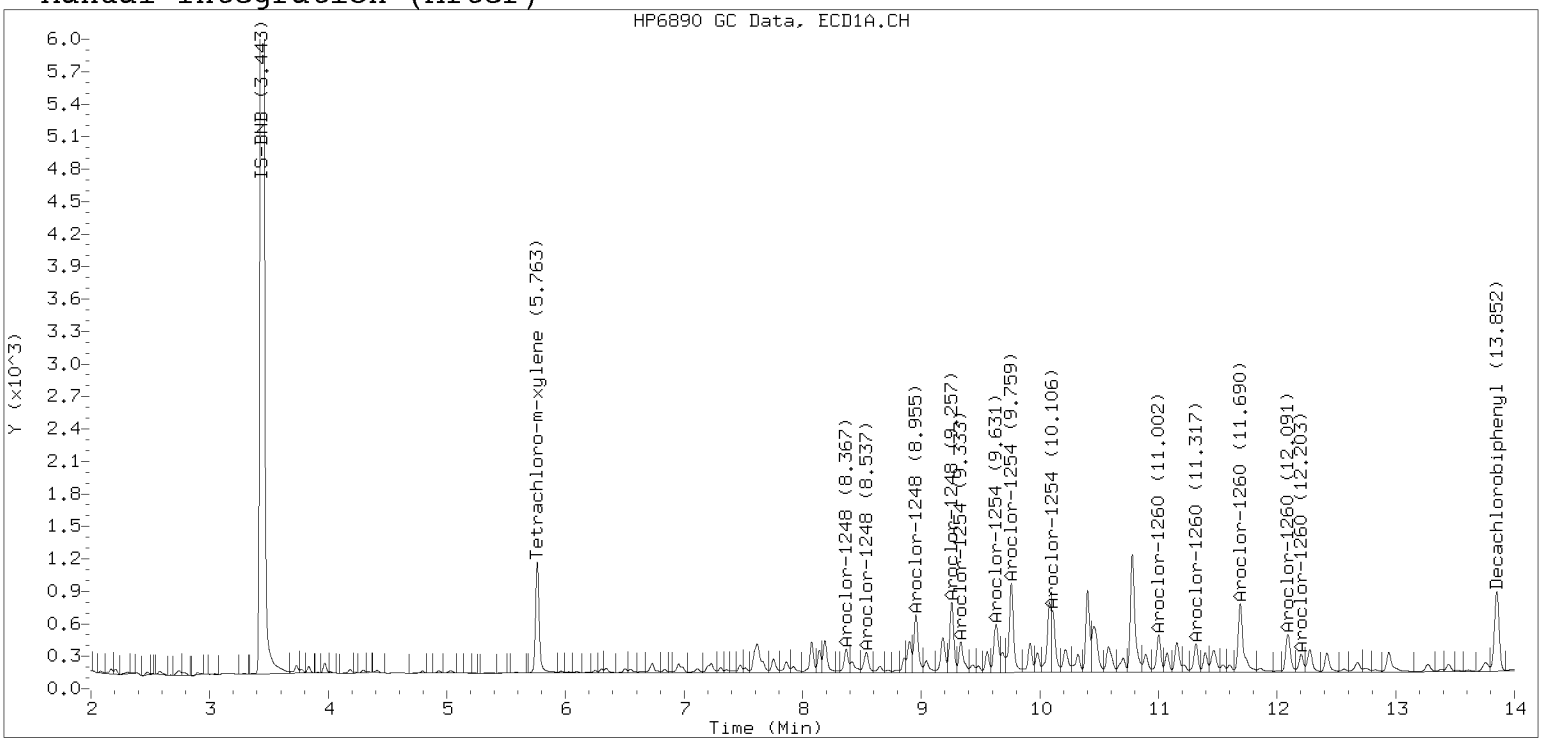


ZB-35 Manual Integration: NO

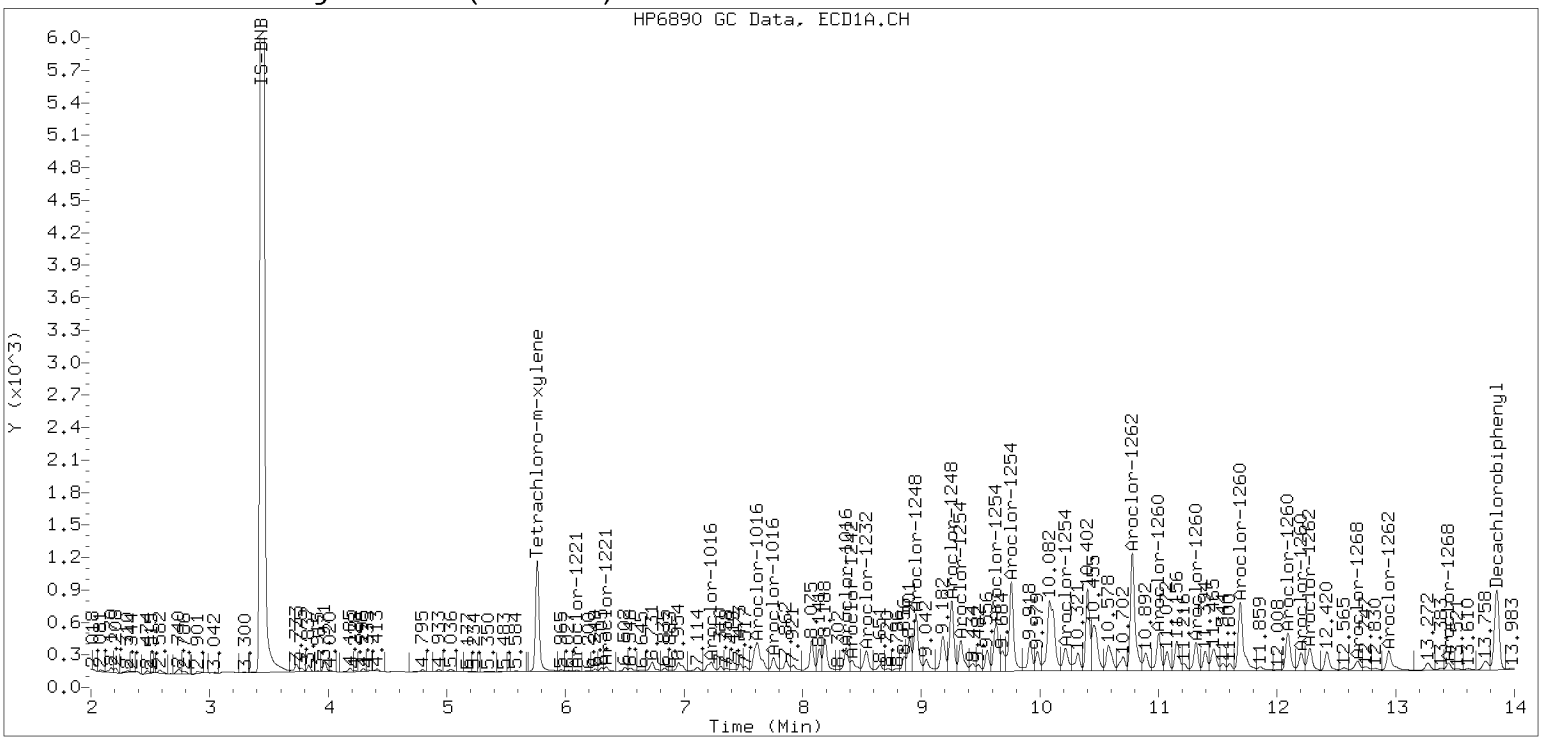
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230502.b/05022341ECD7.D Injection Date: 03-MAY-2023 01:12

Manual Integration (After)



Processed Integration (Before)



PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Batch: BLD0328 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	05022336ECD7.D	04/18/23 11:37	
LDW23-SC1804	23D0136-02	05022337ECD7.D	04/18/23 11:37	
LDW23-SS1803	23D0136-03	05022340ECD7.D	04/18/23 11:37	
LDW23-SC1803	23D0136-04	05022341ECD7.D	04/18/23 11:37	
Blank	BLD0328-BLK1	05022332ECD7.D	04/18/23 11:37	
LCS	BLD0328-BS1	05022333ECD7.D	04/18/23 11:37	
LCS Dup	BLD0328-BSD1	05022334ECD7.D	04/18/23 11:37	
LDW23-SC1804	BLD0328-MS1	05022338ECD7.D	04/18/23 11:37	
LDW23-SC1804	BLD0328-MSD1	05022339ECD7.D	04/18/23 11:37	
Reference	BLD0328-SRM1	05022335ECD7.D	04/18/23 11:37	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0328

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 04/18/23 **Balance ID:** B14646261 4 **Set Up By:** CTO 4/13/23

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23D0136-01 A	49.3	(25.33) 25.34	5mL	5mL	2mL	2.5	1.0	
23D0136-02 A	49.6	(25.19) 25.24	5mL	5mL	2mL	2.5	1.0	
23D0136-03 A	44.3	(28.21) 28.24	5mL	5mL	2mL	2.5	1.0	
23D0136-04 A	49.0	(25.50) 25.54	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLD0328-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLD0328-BS1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLD0328-BSD1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLD0328-MS1	49.6	(25.19) 25.19	5mL	5mL	2mL	2.5	1.0	Use 23D0136-02
BLD0328-MSD1	49.6	(25.19) 25.19	5mL	5mL	2mL	2.5	1.0	Use 23D0136-02
BLD0328-SRM1	100.0	~~(12.50)~~ (2.50) 2.54 +1g DI WATER	5mL	5mL	2mL	2.5	1.0	Use ~~K003636~~ 300/07 CTO 4/18/23

04/18/23 — Client ID verified By — Date

ZH 4/26/23 — Preparation Reviewed By — Date

04/18/23 11:37 — Extraction Date and Time

Printed: 4/13/2023 9:20:09AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0328

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

Prep Steps

Microwave

1 2 3

CT 4/18/23

Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)

1 2 3 (4) (5) 6

CR 4/24/23

Analyst/Date

TurboVap
Pre Cleanups

1 2 3 (4) 5

ZH 4/26/23

Analyst/Date

TurboVap
Post Cleanups

1 2 (3) 4 5

ZH 4/26/23

Analyst/Date

Vialing

ZH 4/26/23

Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 4/18/23	
Neutral Glass Wool	L004037
1:1 Hexane/Acetone	L003045
Hexane	L004957
Anhydrous Sodium Sulfate	L004365
KD Analyst: CR Date: 4/24/23	
~~Anhydrous Sodium Sulfate~~	
Hexane	L003500
Vialing Analyst: ZH Date: 4/26/23	
Hexane	L003500
Concentrated Sulfuric Acid	L001033
Silica Gel (SPE) Darts	L003399
Sodium Sulfite	L002437
Tetrabutylammonium hydrogensulfate (TBAS)	L003024

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N L000773 L004367 Exp Date: 7/24/23	50µL	CT	
Spike 20µg/mL	1 L001587 Exp Date: 2/13/2023	63µL	CT	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLD0328

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

23D0136: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E> Sample ID for -03 and -04 changed by client

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch BLD0328

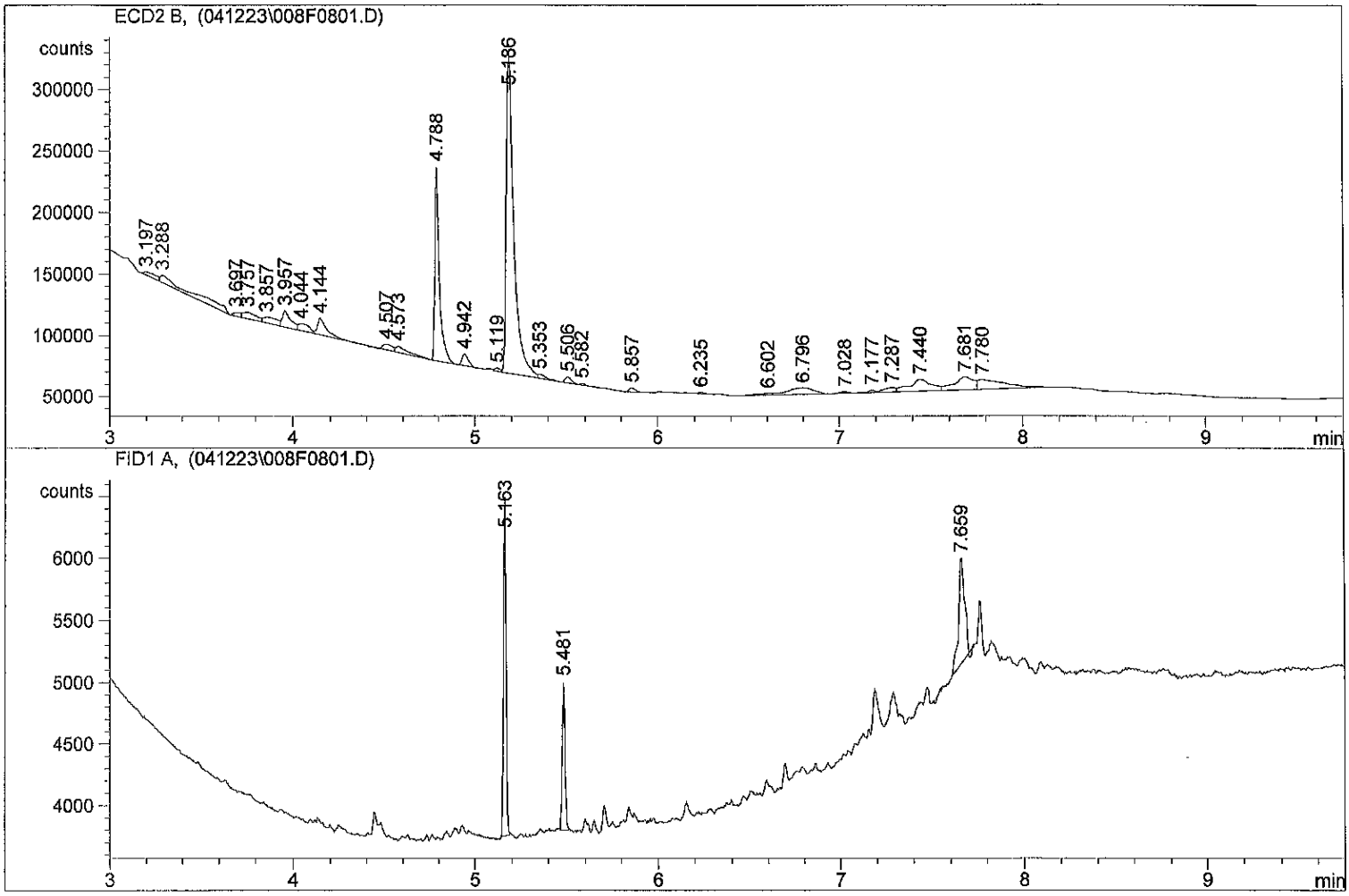
Total Solids Batch: BLD0208 Work Order(s): 23D0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 01-04	CR 4/12/23
[ ] Standing Water Decanted (Not shared)=	
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 4/12/23
[X] Multiple Jars Y / (N)	CR 4/12/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Data File C:\HPCHEM\1\DATA\041223\008F0801.D Sample Name: 23D0136 01

Injection Date	: 4/12/2023 4:16:03 PM	Seq. Line	: 8
Sample Name	: 23D0136 01	Location	: Vial 8
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\041223.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

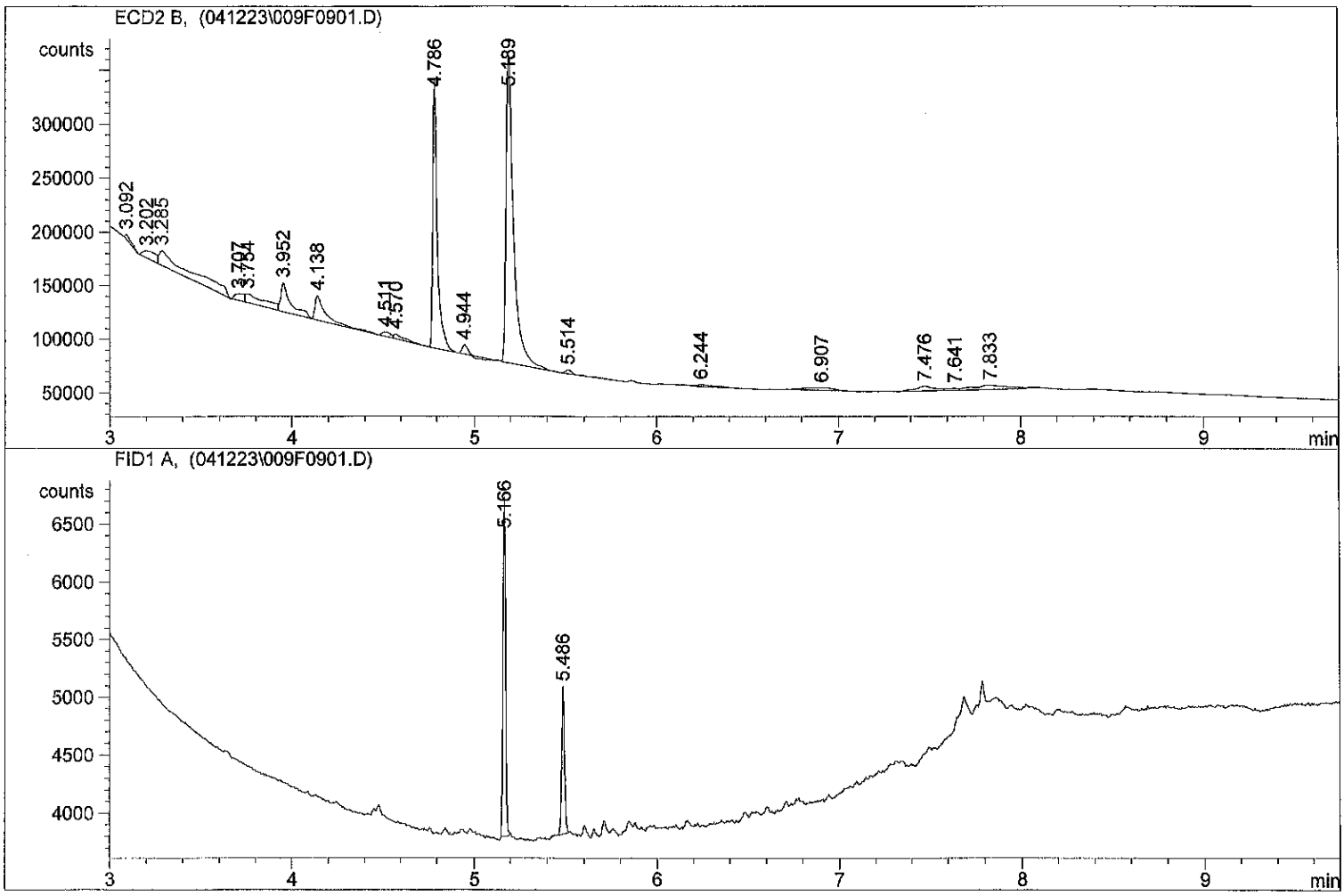
SCREEN METHOD



*** End of Report ***

Injection Date : 4/12/2023 4:30:30 PM Seq. Line : 9
Sample Name : 23D0136 02 Location : Vial 9
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

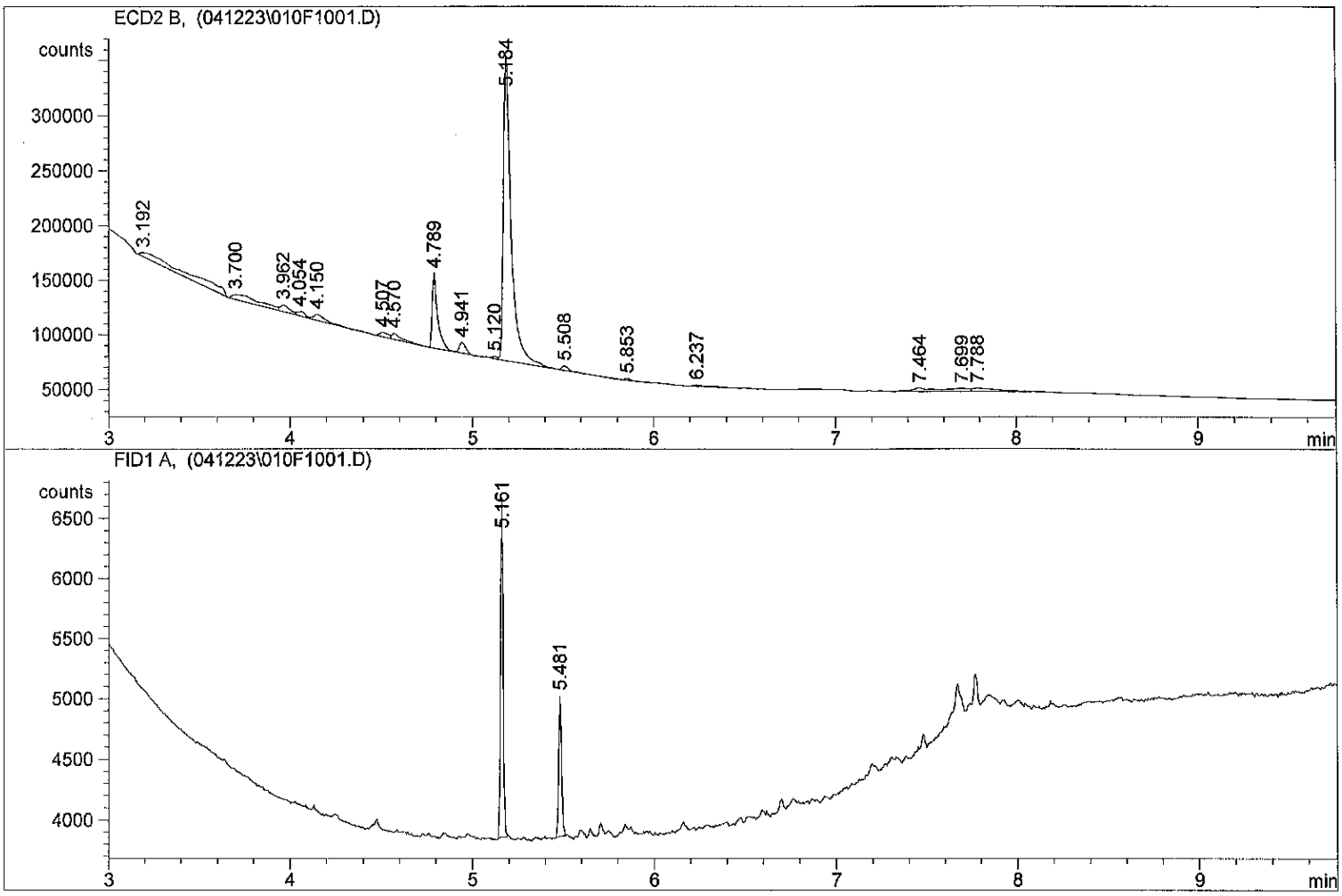
Sequence File : C:\HPCHEM\1\SEQUENCE\041223.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 4/12/2023 4:44:26 PM Seq. Line : 10
Sample Name : 23D0136 03 Location : Vial 10
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\041223.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

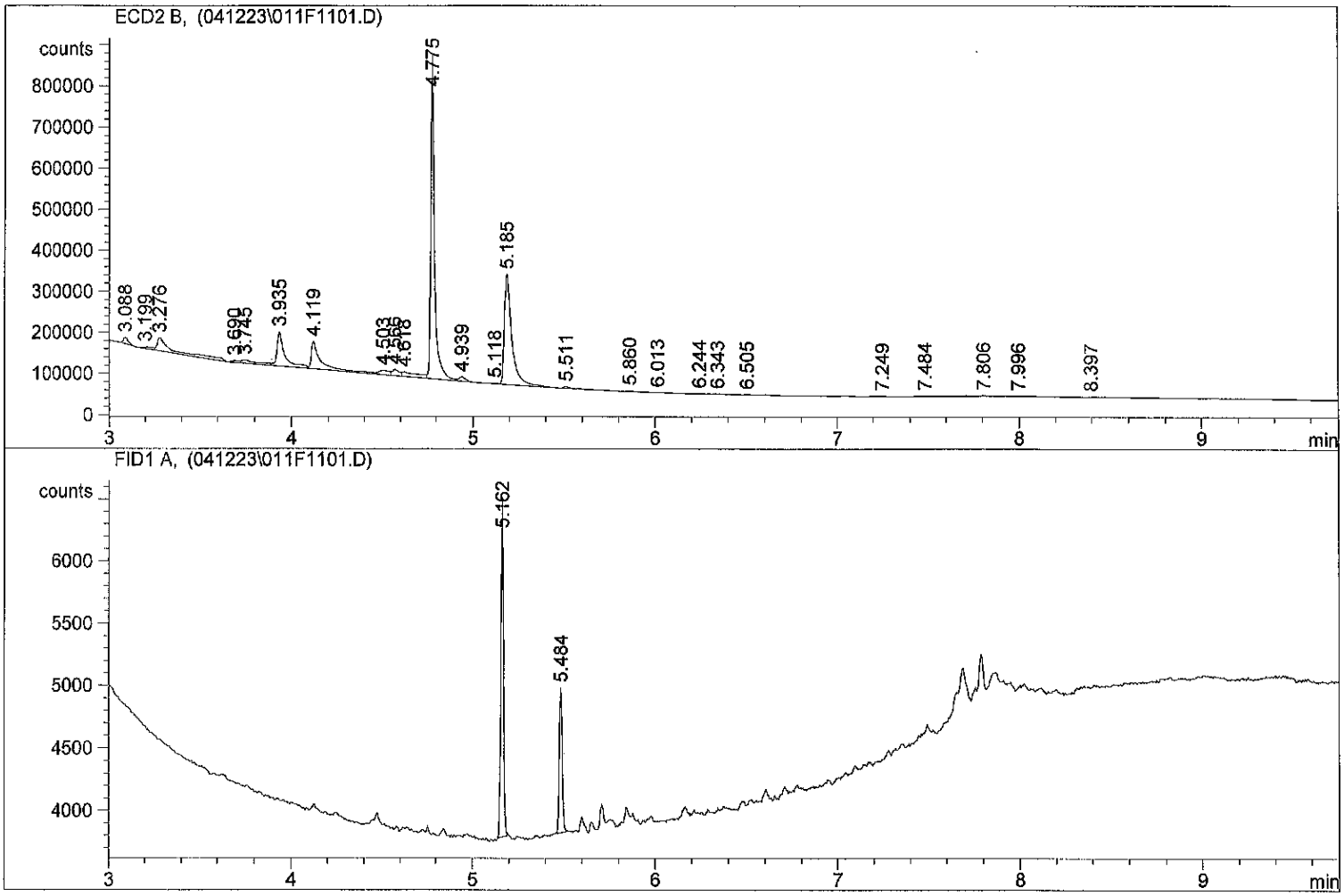


*** End of Report ***

Data File C:\HPCHEM\1\DATA\041223\011F1101.D Sample Name: 23D0136 04

Injection Date : 4/12/2023 4:58:57 PM Seq. Line : 11
Sample Name : 23D0136 04 Location : Vial 11
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\041223.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0178	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1803	23D0136-04	05022341ECD7.D	04/26/2023	
LDW23-SC1804	23D0136-02	05022337ECD7.D	04/26/2023	
LDW23-SS1803	23D0136-03	05022340ECD7.D	04/26/2023	
LDW23-SS1804	23D0136-01	05022336ECD7.D	04/26/2023	
LCS	BLD0328-BS1	05022333ECD7.D	04/26/2023	
LCS Dup	BLD0328-BSD1	05022334ECD7.D	04/26/2023	
Matrix Spike	BLD0328-MS1	05022338ECD7.D	04/26/2023	
Matrix Spike Dup	BLD0328-MSD1	05022339ECD7.D	04/26/2023	
Reference	BLD0328-SRM1	05022335ECD7.D	04/26/2023	
Blank	BLD0328-BLK1	05022332ECD7.D	04/26/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0178

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 4/26/2023 12:57:05PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 03	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-02	A	LDW23-SC1804	A 02	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-03	A	LDW23-SS1803	A 02	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-04	A	LDW23-SC1803	A 01	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
BLD0328-BLK1	-	Blank	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-BS1	-	LCS	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-BSD1	-	LCS Dup	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-MS1	-	Matrix Spike	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-SRM1	-	Reference	-	2.5	2.5	-	4/26/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0179	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	05022336ECD7.D	04/26/2023	
Matrix Spike	BLD0328-MS1	05022338ECD7.D	04/26/2023	
LCS Dup	BLD0328-BSD1	05022334ECD7.D	04/26/2023	
LCS	BLD0328-BS1	05022333ECD7.D	04/26/2023	
Blank	BLD0328-BLK1	05022332ECD7.D	04/26/2023	
LDW23-SC1803	23D0136-04	05022341ECD7.D	04/26/2023	
Matrix Spike Dup	BLD0328-MSD1	05022339ECD7.D	04/26/2023	
LDW23-SC1804	23D0136-02	05022337ECD7.D	04/26/2023	
Reference	BLD0328-SRM1	05022335ECD7.D	04/26/2023	
LDW23-SS1803	23D0136-03	05022340ECD7.D	04/26/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0179

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 4/26/2023 12:57:47PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 03	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-02	A	LDW23-SC1804	A 02	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-03	A	LDW23-SS1803	A 02	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-04	A	LDW23-SC1803	A 01	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
BLD0328-BLK1	-	Blank	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-BS1	-	LCS	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-BSD1	-	LCS Dup	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-MS1	-	Matrix Spike	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-SRM1	-	Reference	-	2.5	2.5	-	4/26/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0180	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS	BLD0328-BS1	05022333ECD7.D	04/26/2023	
Reference	BLD0328-SRM1	05022335ECD7.D	04/26/2023	
Matrix Spike Dup	BLD0328-MSD1	05022339ECD7.D	04/26/2023	
LCS Dup	BLD0328-BSD1	05022334ECD7.D	04/26/2023	
LDW23-SC1803	23D0136-04	05022341ECD7.D	04/26/2023	
Blank	BLD0328-BLK1	05022332ECD7.D	04/26/2023	
LDW23-SC1804	23D0136-02	05022337ECD7.D	04/26/2023	
LDW23-SS1803	23D0136-03	05022340ECD7.D	04/26/2023	
LDW23-SS1804	23D0136-01	05022336ECD7.D	04/26/2023	
Matrix Spike	BLD0328-MS1	05022338ECD7.D	04/26/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLD0180

Matrix: Solid **Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL** **Printed: 4/26/2023 12:58:15PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23D0136-01	A	LDW23-SS1804	A 03	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-02	A	LDW23-SC1804	A 02	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-03	A	LDW23-SS1803	A 02	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
23D0136-04	A	LDW23-SC1803	A 01	2.5	2.5	8082A PCB Solid 4	4/26/2023	ZH	
BLD0328-BLK1	-	Blank	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-BS1	-	LCS	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-BSD1	-	LCS Dup	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-MS1	-	Matrix Spike	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	4/26/2023	ZH	
BLD0328-SRM1	-	Reference	-	2.5	2.5	-	4/26/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0328-BLK1	File ID:	05022332ECD7.D
Sampled:	N/A	Prepared:	04/18/23 11:37	Analyzed:	05/02/23 22:05
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLD0328	Sequence:	SLE0029	Calibration:	GE00002
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	6.96	87.0	40 - 126	
Tetrachlorometaxylene	8.0000	6.17	77.1	44 - 120	
Decachlorobiphenyl [2C]	8.0000	7.19	89.9	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	6.01	75.2	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022332ECD7.D
Data file 2: /230502.b/230502.b/05022332ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0328-BLK1
Client ID:
Injection Date: 02-MAY-2023 22:05
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.765	-0.000	264675	5.648	-0.001	147990	30.8	30.1	2.5	Tetrachloro-m-xylene
13.859	-0.002	336885	14.080	-0.002	258142	34.8	36.0	3.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	587428	5.6
Hexabromobiphenyl	745660	892849	19.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	350622	0.6
Hexabromobiphenyl	429949	443216	3.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col		
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 149363 Col1 Total PCB = 0.0 ppm*

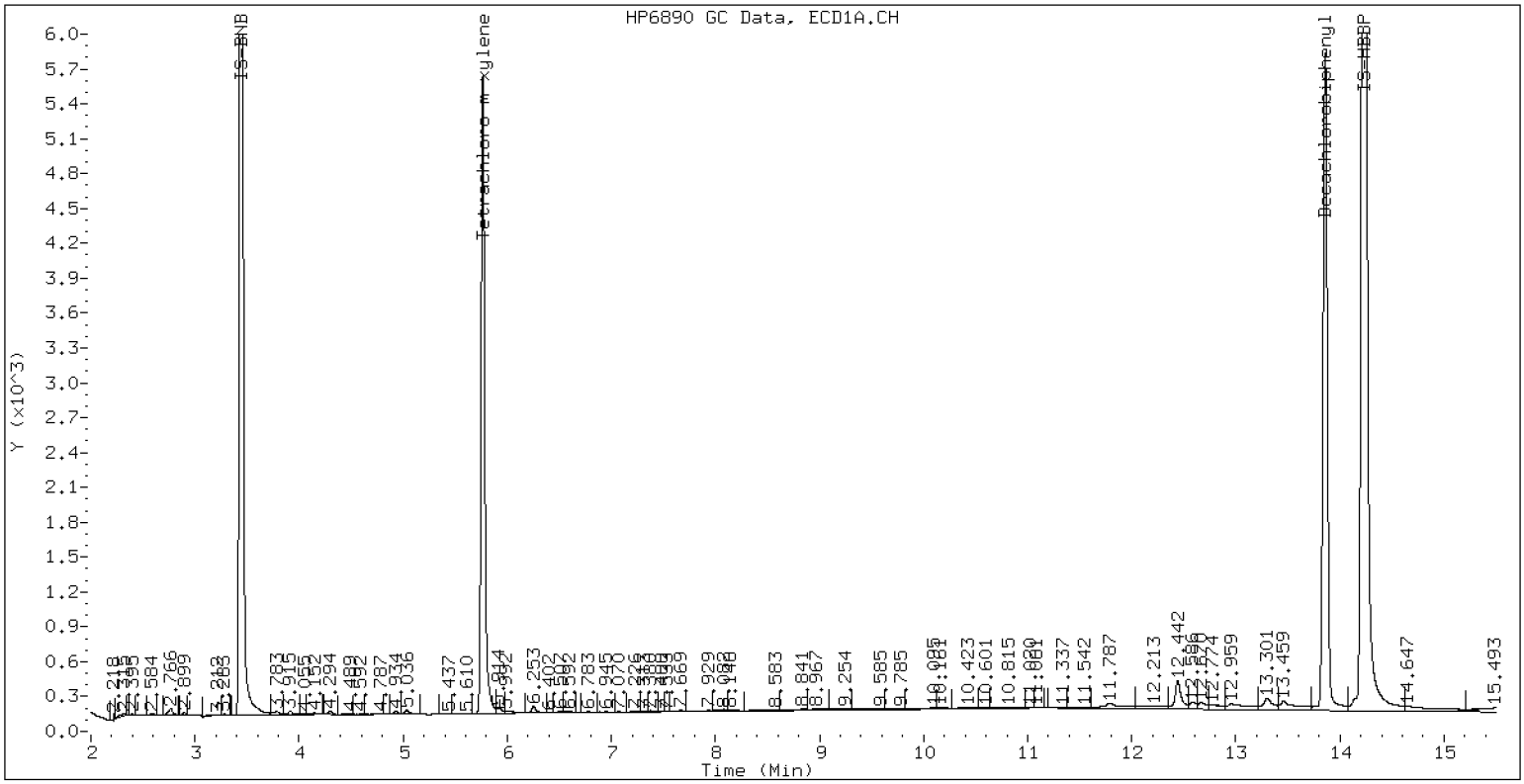
Total PCB Area Col2 (5.749 - 13.983) = 15958 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

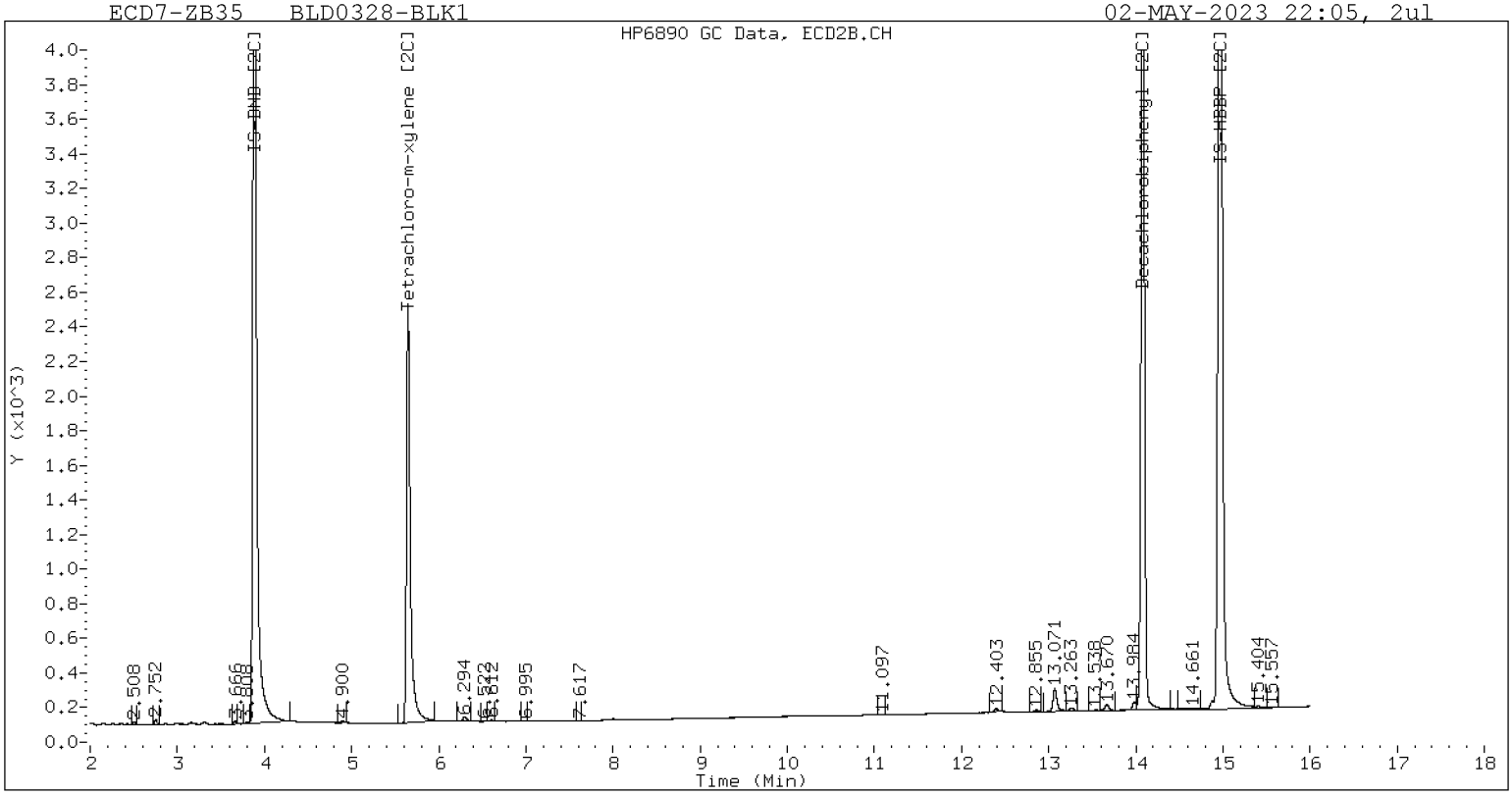
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0328-BLK1 02-MAY-2023 22:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0328-BLK1 02-MAY-2023 22:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 22:25
Batch:	BLD0328	Laboratory ID:	BLD0328-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	88.2		87.5	56 - 120
Aroclor 1260 [2C]	101	92.1		91.3	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	89.0		88.3	0.900	30	56 - 120
Aroclor 1260 [2C]	101	87.9		87.2	4.69	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022333ECD7.D
Data file 2: /230502.b/230502.b/05022333ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0328-BS1
Client ID:
Injection Date: 02-MAY-2023 22:25
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	-0.000	287701	5.649	-0.000	152291	32.8	31.0	5.5	Tetrachloro-m-xylene
13.860	-0.002	376000	14.081	-0.002	271984	35.9	36.1	0.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	601022	8.0
Hexabromobiphenyl	745660	966904	29.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	349925	0.4
Hexabromobiphenyl	429949	465538	8.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.234	-0.002	97391	435.5	1	7.219	-0.003	78018	411.7
Aroclor-1016	2	7.622	-0.010	315009	511.2	2	7.833	-0.015	181467	484.5
Aroclor-1016	3	7.759	-0.006	151290	358.8	3	8.030	-0.028	87931	381.5
Aroclor-1016	4	8.373	-0.006	99461	458.6	4	8.276	-0.007	61968	360.9
Total Col1Ave (4 peaks):					441.0	Total Col2Ave (4 peaks):				409.6 RPD = 7
Corrected Ave (3 peaks):					417.6	Corrected Ave (3 peaks):				384.7 RPD = 8
Aroclor-1221	1	4.684	0.002	593	12.9	1	---			0.0
Aroclor-1221	2	6.091	-0.002	13480	146.1	2	6.263	-0.003	6708	120.9
Aroclor-1221	3	6.345	-0.001	60898	278.2	3	6.590	-0.004	34010	267.8
Total Col1Ave (3 peaks):					145.7	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.684	0.001	593	20.3	1	---			0.0
Aroclor-1232	2	6.091	-0.002	13480	208.3	2	7.219	-0.005	78018	931.3
Aroclor-1232	3	7.622	-0.029	315009	1227.6	3	7.833	-0.029	181467	1097.6
Aroclor-1232	4	8.548	-0.016	128913	1078.6	4	8.683	-0.011	57450	1128.5
Total Col1Ave (4 peaks):					633.7	Total Col2Ave (3 peaks):				1052.5 RPD = 50*
Corrected Ave (3 peaks):					435.7	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.234	-0.002	97391	519.3	1	7.219	-0.003	78018	513.2
Aroclor-1242	2	7.622	-0.009	315009	614.5	2	7.833	-0.013	181467	596.7
Aroclor-1242	3	8.420	-0.005	60791	496.1	3	9.139	-0.019	12408	118.0
Aroclor-1242	4	8.548	-0.008	128913	505.3	4	9.562	-0.028	4867	45.1
Total Col1Ave (4 peaks):					533.8	Total Col2Ave (4 peaks):				318.2 RPD = 51*
Corrected Ave (3 peaks):					506.9	Corrected Ave (3 peaks):				225.4 RPD = 77*
Aroclor-1248	1	8.373	-0.005	99461	216.3	1	8.276	-0.005	61968	337.5
Aroclor-1248	2	8.548	-0.009	128913	334.8	2	8.683	-0.005	57450	355.5
Aroclor-1248	3	8.961	0.001	152280	132.5	3	9.139	-0.017	12408	62.6
Aroclor-1248	4	9.269	0.001	120062	198.9	4	9.562	-0.021	4867	23.0
Total Col1Ave (4 peaks):					220.6	Total Col2Ave (4 peaks):				194.7 RPD = 13
Corrected Ave (3 peaks):					182.6	Corrected Ave (3 peaks):				141.1 RPD = 26
Aroclor-1254	1	9.269	-0.004	120062	184.9	1	9.421	-0.007	55058	210.4
Aroclor-1254	2	---			0.0	2	9.562	0.036	4867	30.5
Aroclor-1254	3	9.638	-0.007	24406	59.5	3	9.942	-0.007	12622	59.6
Aroclor-1254	4	9.777	-0.009	66214	79.4	4	10.115	0.010	114468	249.7
Aroclor-1254	5	10.088	-0.073	297200	482.6	5	10.338	-0.015	150707	286.0
Total Col1Ave (4 peaks):					201.6	Total Col2Ave (5 peaks):				167.2 RPD = 19
Corrected Ave (3 peaks):					107.9	Corrected Ave (4 peaks):				137.6 RPD = 24
Aroclor-1260	1	11.013	-0.004	231816	424.6	1	11.620	-0.004	149784	452.2
Aroclor-1260	2	11.329	-0.005	233514	421.7	2	11.886	-0.005	390627	449.4
Aroclor-1260	3	11.705	-0.006	598678	416.6	3	12.402	-0.004	99064	500.5
Aroclor-1260	4	12.108	-0.010	306322	429.8	4	12.469	-0.006	260184	439.3
Aroclor-1260	5	12.213	-0.004	134916	412.6	NS	---			----
Total Col1Ave (5 peaks):					421.1	Total Col2Ave (4 peaks):				460.4 RPD = 9
Corrected Ave (4 peaks):					418.9	Corrected Ave (3 peaks):				447.0 RPD = 6
Aroclor-1262	1	10.796	-0.013	453808	1202.7	1	11.167	-0.006	146161	314.1
Aroclor-1262	2	12.213	-0.004	134916	204.8	2	11.620	-0.004	149784	382.1
Aroclor-1262	3	12.287	-0.005	168715	233.0	3	12.402	-0.002	99064	240.0
Aroclor-1262	4	12.956	-0.006	178692	305.9	4	12.469	-0.007	260184	364.6
Total Col1Ave (4 peaks):					486.6	Total Col2Ave (4 peaks):				325.2 RPD = 40
Corrected Ave (3 peaks):					247.9	Corrected Ave (3 peaks):				306.2 RPD = 21
Aroclor-1268	1	12.213	-0.006	134916	81.3	1	12.402	-0.002	99064	92.1
Aroclor-1268	2	12.287	-0.004	168715	97.6	2	12.469	-0.003	260184	213.1
Aroclor-1268	3	12.693	0.024	80796	56.2	3	12.856	-0.002	8524	8.5
Aroclor-1268	4	13.457	-0.004	68689	16.5	4	13.673	-0.004	27978	9.1
Total Col1Ave (4 peaks):					62.9	Total Col2Ave (4 peaks):				80.7 RPD = 25
Corrected Ave (3 peaks):					51.3	Corrected Ave (3 peaks):				36.5 RPD = 34

Total PCB Area Col1 (5.866 - 13.762) = 6580348 Col1 Total PCB = 0.9 ppm*

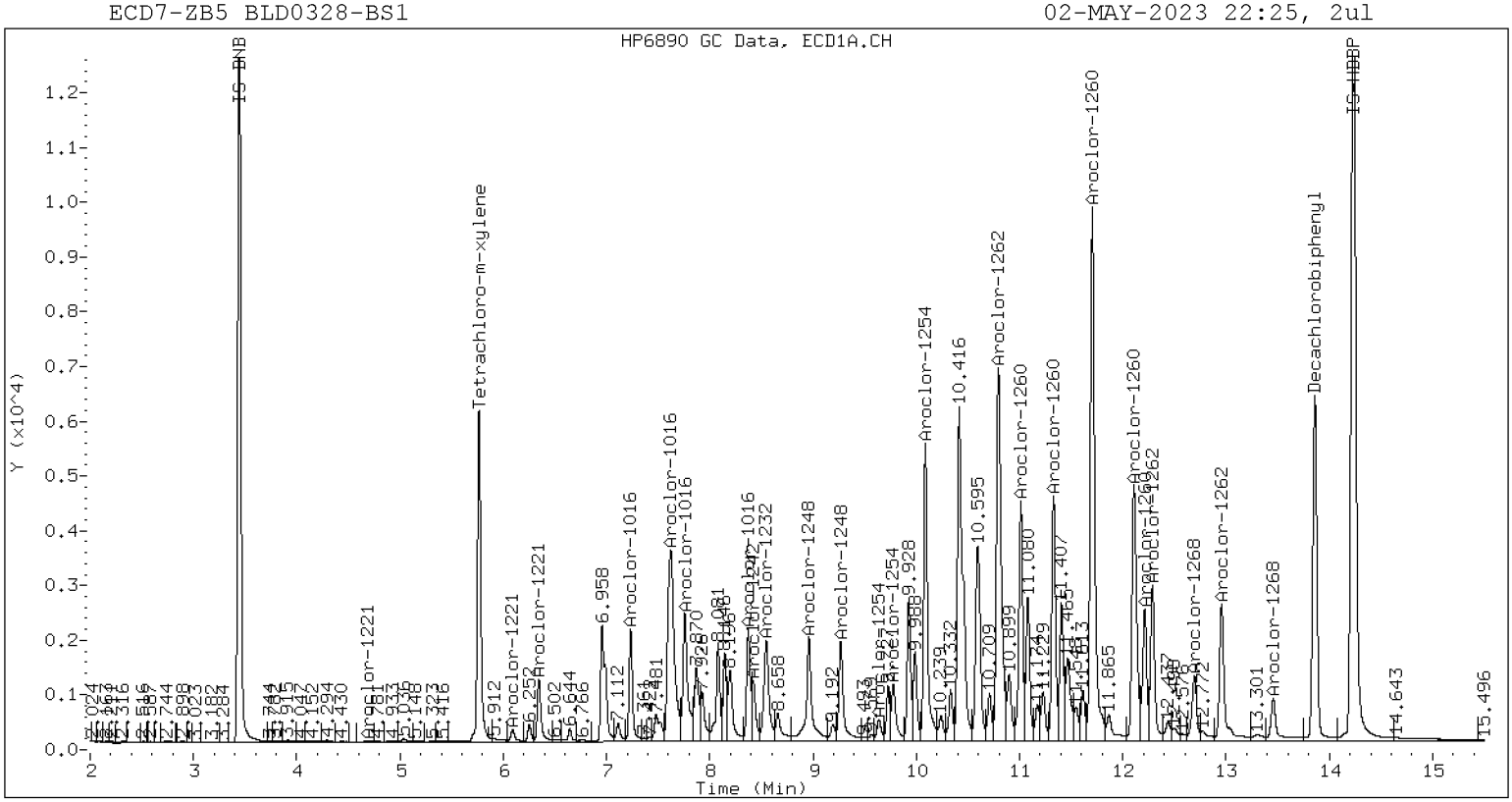
Total PCB Area Col2 (5.749 - 13.983) = 3598856 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

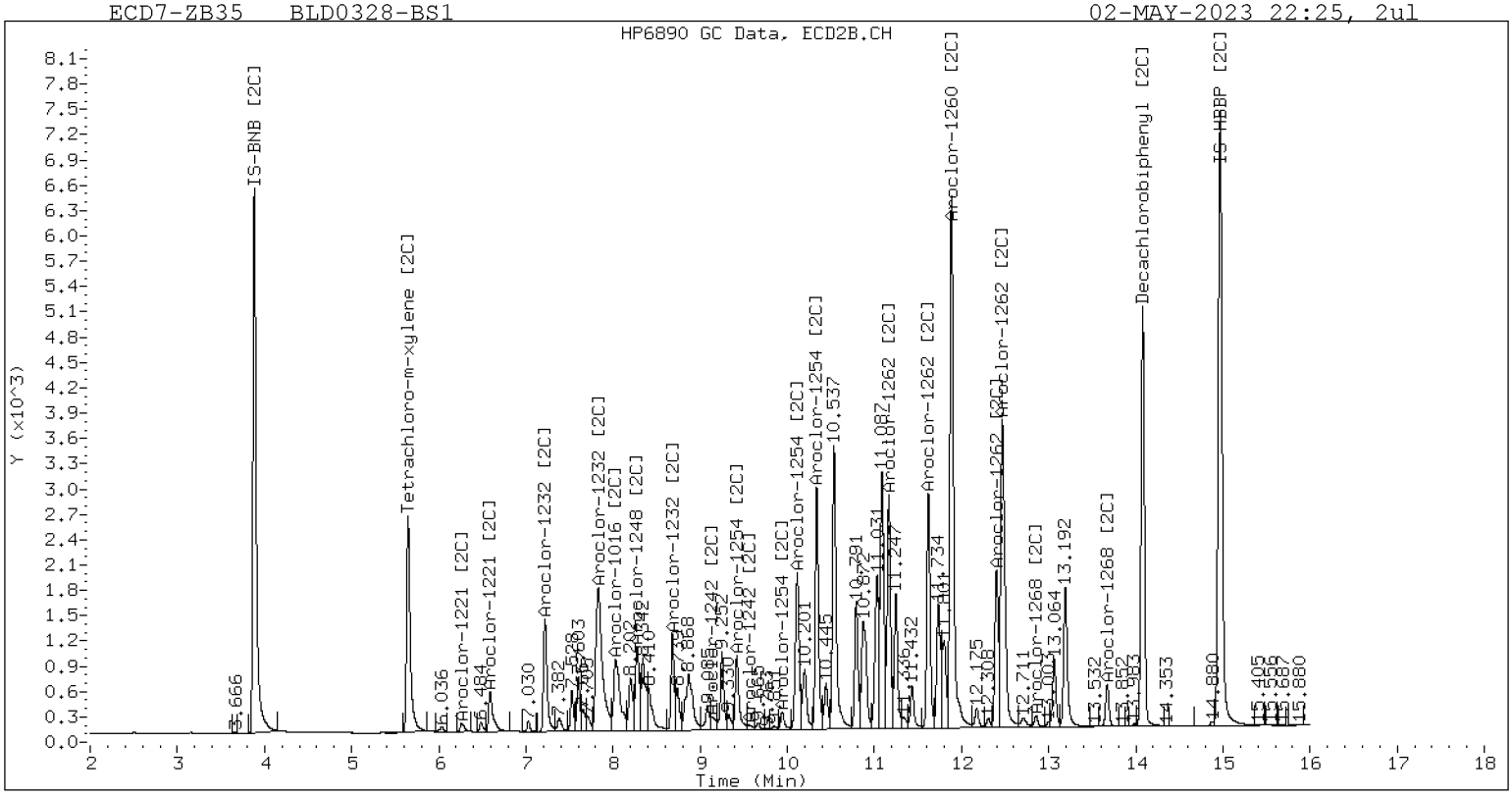
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0328-BS1 02-MAY-2023 22:25, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0328-BS1 02-MAY-2023 22:25, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022334ECD7.D
Data file 2: /230502.b/230502.b/05022334ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0328-BSD1
Client ID:
Injection Date: 02-MAY-2023 22:46
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.765	-0.000	295192	5.648	-0.001	156360	34.5	32.0	7.7	Tetrachloro-m-xylene
13.859	-0.003	385466	14.080	-0.002	277334	36.3	35.9	1.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	584721	5.1
Hexabromobiphenyl	745660	978758	31.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	348110	-0.1
Hexabromobiphenyl	429949	477486	11.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.233	-0.003	96972	445.7	1	7.219	-0.004	77408	410.6
Aroclor-1016	2	7.621	-0.012	312386	521.1	2	7.832	-0.016	178344	478.6
Aroclor-1016	3	7.758	-0.007	147057	358.5	3	8.029	-0.029	86702	378.1
Aroclor-1016	4	8.372	-0.007	95957	454.8	4	8.276	-0.007	60808	356.0
Total Col1Ave (4 peaks):		445.0				Total Col2Ave (4 peaks):			405.8	RPD = 9
Corrected Ave (3 peaks):		419.7				Corrected Ave (3 peaks):			381.6	RPD = 10
Aroclor-1221	1	4.682	-0.001	438	9.8	1	---			0.0
Aroclor-1221	2	6.090	-0.003	13521	150.6	2	6.262	-0.004	7303	132.3
Aroclor-1221	3	6.344	-0.002	60621	284.6	3	6.589	-0.005	34280	271.3
Total Col1Ave (3 peaks):		148.3				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.682	-0.001	438	15.4	1	---			0.0
Aroclor-1232	2	6.090	-0.003	13521	214.8	2	7.219	-0.006	77408	928.8
Aroclor-1232	3	7.621	-0.031	312386	1251.3	3	7.832	-0.031	178344	1084.3
Aroclor-1232	4	8.546	-0.017	125581	1080.0	4	8.682	-0.011	55337	1092.6
Total Col1Ave (4 peaks):		640.4				Total Col2Ave (3 peaks):			1035.3	RPD = 47*
Corrected Ave (3 peaks):		436.7				Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.233	-0.002	96972	531.5	1	7.219	-0.004	77408	511.8
Aroclor-1242	2	7.621	-0.011	312386	626.4	2	7.832	-0.015	178344	589.5
Aroclor-1242	3	8.419	-0.006	59483	499.0	3	9.138	-0.019	12301	117.6
Aroclor-1242	4	8.546	-0.010	125581	506.0	4	9.562	-0.027	4491	41.8
Total Col1Ave (4 peaks):		540.7				Total Col2Ave (4 peaks):			315.2	RPD = 53*
Corrected Ave (3 peaks):		512.2				Corrected Ave (3 peaks):			223.7	RPD = 78*
Aroclor-1248	1	8.372	-0.006	95957	214.5	1	8.276	-0.006	60808	332.9
Aroclor-1248	2	8.546	-0.011	125581	335.2	2	8.682	-0.006	55337	344.2
Aroclor-1248	3	8.960	-0.000	149833	134.0	3	9.138	-0.018	12301	62.4
Aroclor-1248	4	9.267	-0.001	118548	201.9	4	9.562	-0.021	4491	21.4
Total Col1Ave (4 peaks):		221.4				Total Col2Ave (4 peaks):			190.2	RPD = 15
Corrected Ave (3 peaks):		183.5				Corrected Ave (3 peaks):			138.9	RPD = 28
Aroclor-1254	1	9.267	-0.005	118548	187.7	1	9.419	-0.009	54017	207.5
Aroclor-1254	2	---			0.0	2	9.562	0.037	4491	28.3
Aroclor-1254	3	9.637	-0.009	23415	58.6	3	9.941	-0.008	12092	57.4
Aroclor-1254	4	9.775	-0.011	63484	78.3	4	10.113	0.008	110986	243.3
Aroclor-1254	5	10.237	0.077	28542	47.6	5	10.337	-0.016	146064	278.6
Total Col1Ave (4 peaks):		93.1				Total Col2Ave (5 peaks):			163.0	RPD = 55*
Corrected Ave (3 peaks):		61.5				Corrected Ave (4 peaks):			134.1	RPD = 74*
Aroclor-1260	1	11.012	-0.005	227168	411.1	1	11.618	-0.006	146266	430.6
Aroclor-1260	2	11.329	-0.005	230586	411.3	2	11.883	-0.008	382069	428.6
Aroclor-1260	3	11.703	-0.008	586136	402.9	3	12.400	-0.005	97057	478.1
Aroclor-1260	4	12.108	-0.011	294575	408.3	4	12.468	-0.007	255006	419.8
Aroclor-1260	5	12.211	-0.005	127959	386.6	NS	---			----
Total Col1Ave (5 peaks):		404.1				Total Col2Ave (4 peaks):			439.3	RPD = 8
Corrected Ave (4 peaks):		402.2				Corrected Ave (3 peaks):			426.3	RPD = 6
Aroclor-1262	1	10.795	-0.014	446650	1169.4	1	11.166	-0.007	141994	297.5
Aroclor-1262	2	12.211	-0.005	127959	191.8	2	11.618	-0.006	146266	363.8
Aroclor-1262	3	12.287	-0.005	159359	217.4	3	12.400	-0.003	97057	229.2
Aroclor-1262	4	12.955	-0.007	178000	301.0	4	12.468	-0.008	255006	348.4
Total Col1Ave (4 peaks):		469.9				Total Col2Ave (4 peaks):			309.7	RPD = 41*
Corrected Ave (3 peaks):		236.7				Corrected Ave (3 peaks):			291.7	RPD = 21
Aroclor-1268	1	12.211	-0.007	127959	76.2	1	12.400	-0.003	97057	87.9
Aroclor-1268	2	12.287	-0.004	159359	91.1	2	12.468	-0.004	255006	203.6
Aroclor-1268	3	12.692	0.023	78520	54.0	3	12.854	-0.004	8127	7.9
Aroclor-1268	4	13.455	-0.005	69428	16.5	4	13.673	-0.004	27624	8.8
Total Col1Ave (4 peaks):		59.4				Total Col2Ave (4 peaks):			77.0	RPD = 26
Corrected Ave (3 peaks):		48.9				Corrected Ave (3 peaks):			34.9	RPD = 33

Total PCB Area Col1 (5.866 - 13.762) = 6433583 Col1 Total PCB = 0.9 ppm*

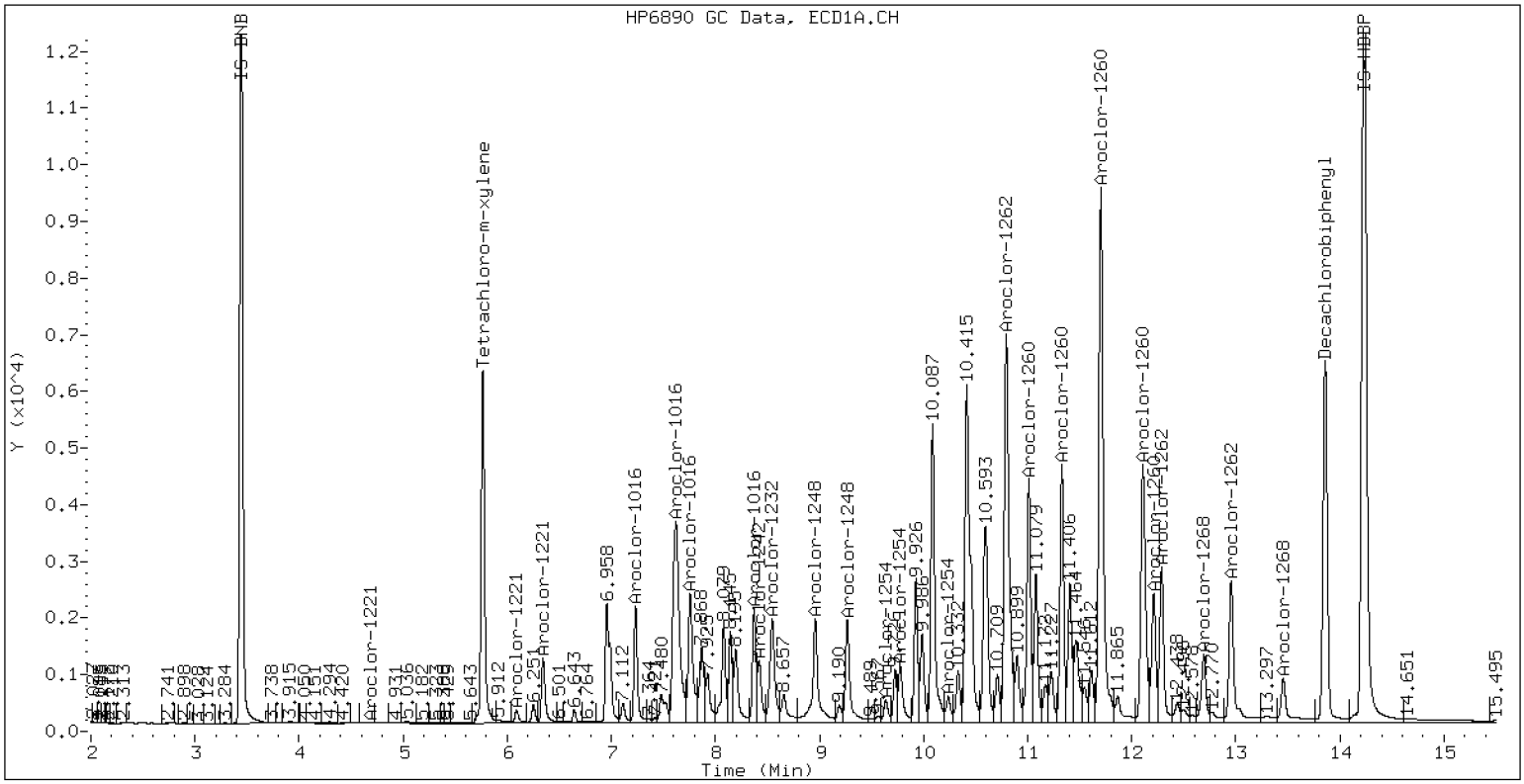
Total PCB Area Col2 (5.749 - 13.983) = 3520684 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

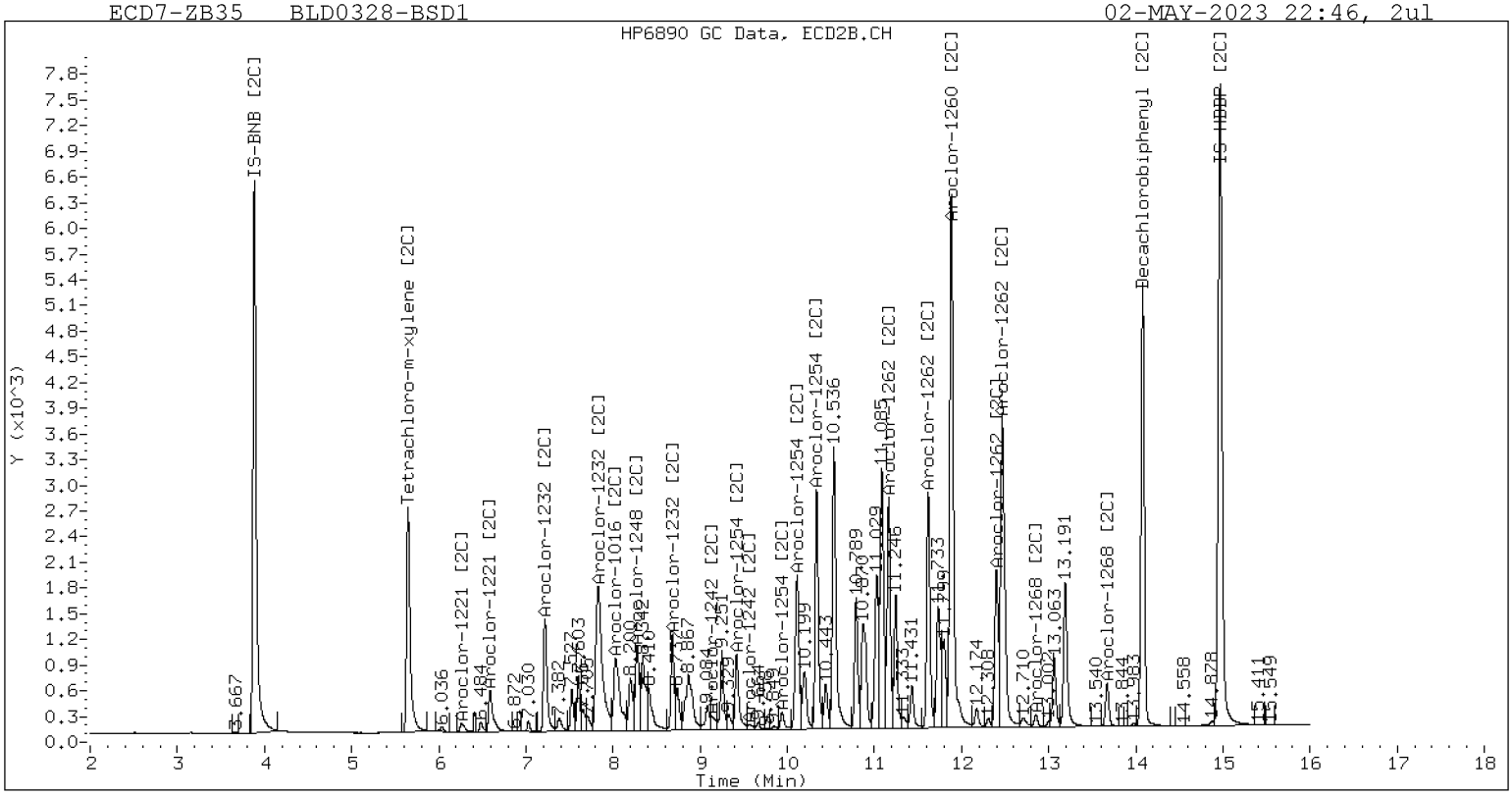
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0328-BSD1 02-MAY-2023 22:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0328-BSD1 02-MAY-2023 22:46, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/03/23 00:10
Batch:	BLD0328	Laboratory ID:	BLD0328-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	25.19 g / 2.5 mL	Source Sample:	LDW23-SC1804

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	97.3	D	96.3	56 - 120
Aroclor 1260 [2C]	101	42.1	D	109	D	66.2	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/03/23 00:31
Batch:	BLD0328	Laboratory ID:	BLD0328-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	25.19 g / 2.5 mL	Source Sample:	LDW23-SC1804

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	91.3	D	90.4	6.37	30	56 - 120
Aroclor 1260 [2C]	101	111	D	68.2	1.48	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022338ECD7.D
Data file 2: /230502.b/230502.b/05022338ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0328-MS1RE1
Client ID:
Injection Date: 03-MAY-2023 00:10
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.003	51078	5.645	-0.004	28883	5.9	5.8	2.3	Tetrachloro-m-xylene
13.852	-0.009	45187	14.072	-0.010	38541	6.6	5.7	15.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	593414	6.7
Hexabromobiphenyl	745660	630407	-15.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	357546	2.6
Hexabromobiphenyl	429949	420968	-2.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.230	-0.006	21021	95.2	1	7.216	-0.006	16423	84.8
Aroclor-1016	2	7.616	-0.017	70204	115.4	2	7.821	-0.027	40603	106.1
Aroclor-1016	3	7.752	-0.013	25957	62.4	3	8.019	-0.039	16560	70.3
Aroclor-1016	4	8.366	-0.013	24867	116.1	4	8.269	-0.014	15998	91.2
Total Col1Ave (4 peaks):					97.3	Total Col2Ave (4 peaks):				88.1 RPD = 10
Corrected Ave (3 peaks):					91.0	Corrected Ave (3 peaks):				82.1 RPD = 10
Aroclor-1221	1	4.742	0.060	246	5.4	1	4.900	-0.010	493	18.6
Aroclor-1221	2	6.091	-0.003	2912	32.0	2	6.260	-0.005	405	7.1
Aroclor-1221	3	6.342	-0.005	14011	64.8	3	6.587	-0.007	8040	62.0
Total Col1Ave (3 peaks):					34.1	Total Col2Ave (3 peaks):				29.2 RPD = 15
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.742	0.060	246	8.5	1	4.900	-0.011	493	32.0
Aroclor-1232	2	6.091	-0.003	2912	45.6	2	7.216	-0.008	16423	191.9
Aroclor-1232	3	7.616	-0.036	70204	277.1	3	7.821	-0.041	40603	240.4
Aroclor-1232	4	8.537	-0.027	26627	225.6	4	8.675	-0.018	14485	278.5
Total Col1Ave (4 peaks):					139.2	Total Col2Ave (4 peaks):				185.7 RPD = 29
Corrected Ave (3 peaks):					93.2	Corrected Ave (3 peaks):				154.8 RPD = 50*
Aroclor-1242	1	7.230	-0.005	21021	113.5	1	7.216	-0.006	16423	105.7
Aroclor-1242	2	7.616	-0.016	70204	138.7	2	7.821	-0.025	40603	130.7
Aroclor-1242	3	8.414	-0.011	15080	124.6	3	9.196	0.038	8483	78.9
Aroclor-1242	4	8.537	-0.019	26627	105.7	4	9.656	0.067	5742	52.0
Total Col1Ave (4 peaks):					120.6	Total Col2Ave (4 peaks):				91.8 RPD = 27
Corrected Ave (3 peaks):					114.6	Corrected Ave (3 peaks):				78.9 RPD = 37
Aroclor-1248	1	8.366	-0.012	24867	54.8	1	8.269	-0.013	15998	85.3
Aroclor-1248	2	8.537	-0.020	26627	70.0	2	8.675	-0.013	14485	87.7
Aroclor-1248	3	8.954	-0.006	35324	31.1	3	9.117	-0.038	10994	54.3
Aroclor-1248	4	9.256	-0.012	41684	70.0	4	9.538	-0.045	10190	47.2
Total Col1Ave (4 peaks):					56.5	Total Col2Ave (4 peaks):				68.6 RPD = 19
Corrected Ave (3 peaks):					52.0	Corrected Ave (3 peaks):				62.2 RPD = 18
Aroclor-1254	1	9.256	-0.017	41684	65.0	1	9.408	-0.019	23997	89.8
Aroclor-1254	2	9.332	-0.024	16106	53.0	2	9.538	0.012	10190	62.5
Aroclor-1254	3	9.629	-0.017	27861	68.7	3	9.926	-0.022	11977	55.3
Aroclor-1254	4	9.758	-0.028	55502	67.4	4	10.081	-0.025	43616	93.1
Aroclor-1254	5	10.079	-0.082	83384	137.1	5	10.326	-0.027	56227	104.4
Total Col1Ave (5 peaks):					78.3	Total Col2Ave (5 peaks):				81.0 RPD = 3
Corrected Ave (4 peaks):					63.6	Corrected Ave (4 peaks):				75.2 RPD = 17
Aroclor-1260	1	11.001	-0.015	39534	111.1	1	11.609	-0.015	34344	114.7
Aroclor-1260	2	11.316	-0.018	34106	94.5	2	11.871	-0.020	72244	91.9
Aroclor-1260	3	11.689	-0.023	96830	103.3	3	12.388	-0.017	24946	139.4
Aroclor-1260	4	12.090	-0.028	47046	101.3	4	12.454	-0.021	48665	90.9
Aroclor-1260	5	12.202	-0.014	18940	88.8	NS	---			----
Total Col1Ave (5 peaks):					99.8	Total Col2Ave (4 peaks):				109.2 RPD = 9
Corrected Ave (4 peaks):					97.0	Corrected Ave (3 peaks):				99.2 RPD = 2
Aroclor-1262	1	10.778	-0.030	105244	427.8	1	11.156	-0.017	27269	64.8
Aroclor-1262	2	12.202	-0.015	18940	44.1	2	11.609	-0.015	34344	96.9
Aroclor-1262	3	12.273	-0.019	24353	51.6	3	12.388	-0.015	24946	66.8
Aroclor-1262	4	12.942	-0.021	24664	64.8	4	12.454	-0.022	48665	75.4
Total Col1Ave (4 peaks):					147.1	Total Col2Ave (4 peaks):				76.0 RPD = 64*
Corrected Ave (3 peaks):					53.5	Corrected Ave (3 peaks):				69.0 RPD = 25
Aroclor-1268	1	12.202	-0.016	18940	17.5	1	12.388	-0.015	24946	25.6
Aroclor-1268	2	12.273	-0.018	24353	21.6	2	12.454	-0.018	48665	44.1
Aroclor-1268	3	12.679	0.010	11403	12.2	3	12.848	-0.011	1877	2.1
Aroclor-1268	4	13.446	-0.015	6916	2.6	4	13.662	-0.015	8578	3.1
Total Col1Ave (4 peaks):					13.5	Total Col2Ave (4 peaks):				18.7 RPD = 33

Corrected Ave (3 peaks): 10.7 Corrected Ave (3 peaks): 10.3 RPD = 5

Total PCB Area Col1 (5.866 - 13.762) = 1502311 Col1 Total PCB = 0.2 ppm*

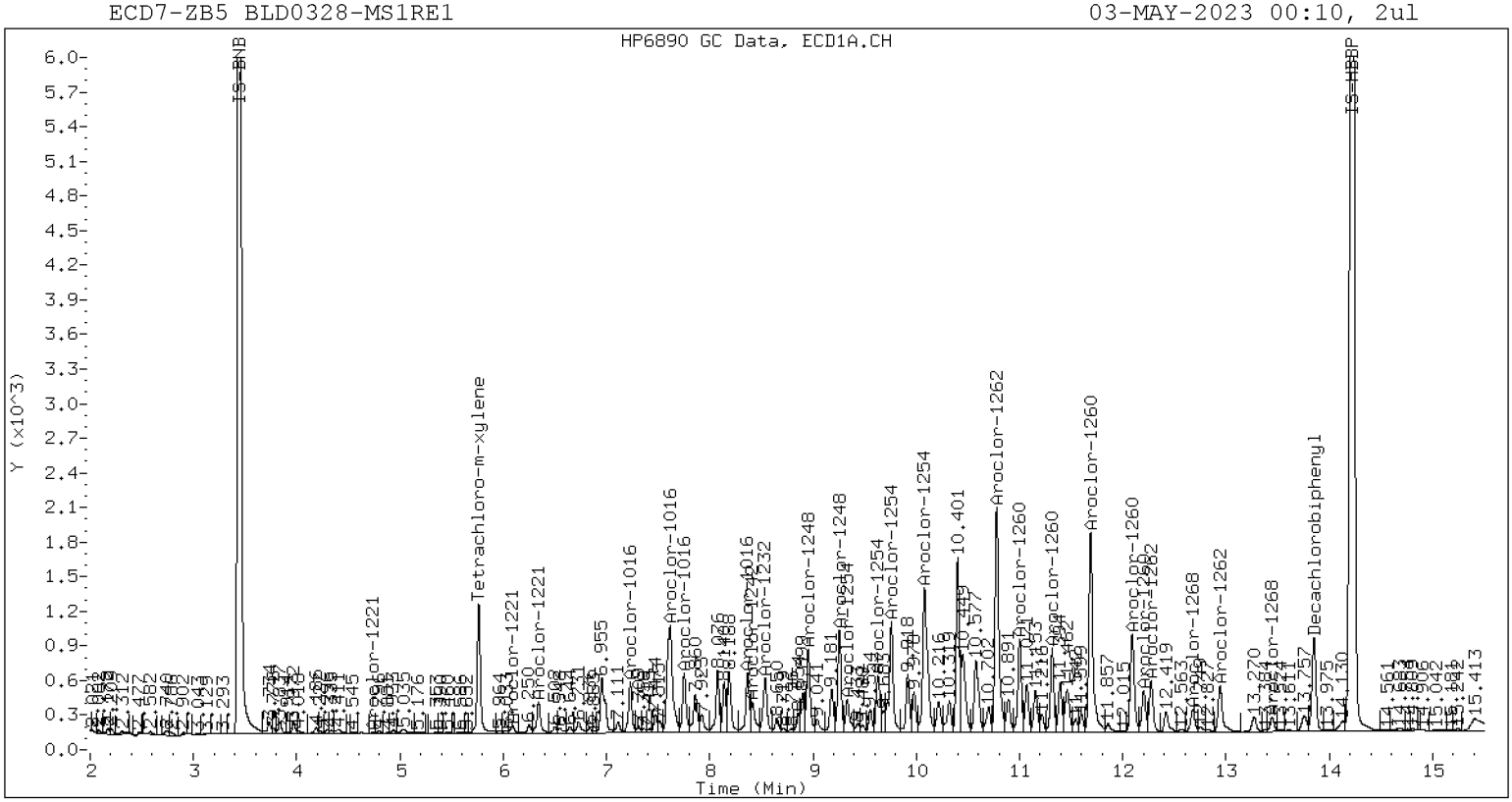
Total PCB Area Col2 (5.749 - 13.983) = 996990 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

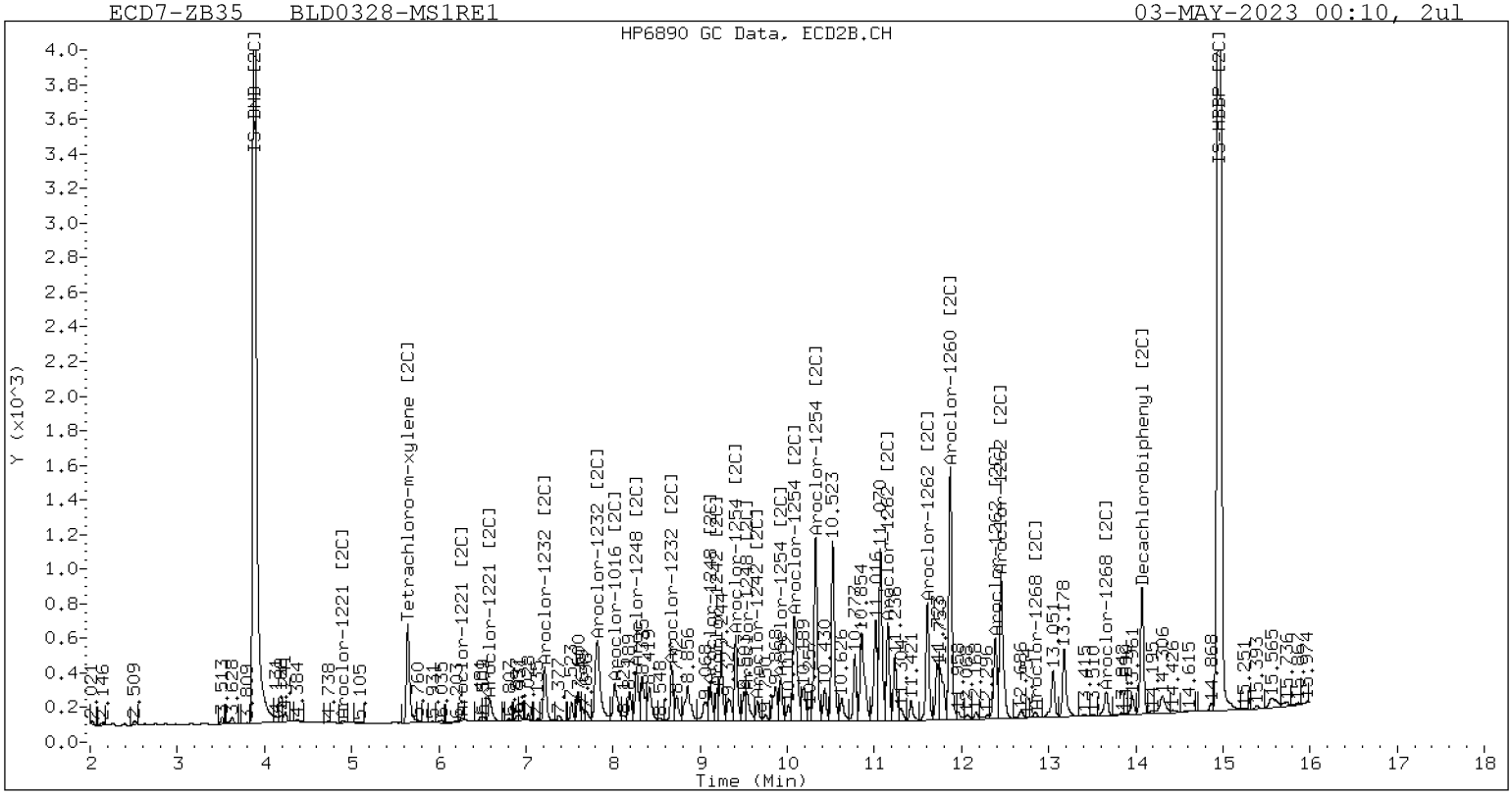
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0328-MS1RE1 03-MAY-2023 00:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0328-MS1RE1 03-MAY-2023 00:10, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022339ECD7.D
Data file 2: /230502.b/230502.b/05022339ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0328-MSD1RE
Client ID:
Injection Date: 03-MAY-2023 00:31
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.003	45878	5.645	-0.004	27455	5.4	5.5	2.6	Tetrachloro-m-xylene
13.852	-0.010	42599	14.074	-0.009	36068	6.3	5.4	14.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	583991	5.0
Hexabromobiphenyl	745660	624434	-16.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	354377	1.7
Hexabromobiphenyl	429949	410587	-4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.230	-0.006	19396	89.3	1	7.216	-0.006	15516	80.8
Aroclor-1016	2	7.615	-0.017	64995	108.6	2	7.822	-0.026	38252	100.8
Aroclor-1016	3	7.752	-0.012	24397	59.5	3	8.020	-0.039	15394	66.0
Aroclor-1016	4	8.366	-0.012	22691	107.7	4	8.270	-0.013	15016	86.3
	Total Col1Ave (4 peaks):				91.3	Total Col2Ave (4 peaks):				83.5 RPD = 9
	Corrected Ave (3 peaks):				85.5	Corrected Ave (3 peaks):				77.7 RPD = 10
Aroclor-1221	1	4.742	0.060	128	2.9	1	4.900	-0.010	388	14.7
Aroclor-1221	2	6.092	-0.002	2776	31.0	2	6.261	-0.004	600	10.7
Aroclor-1221	3	6.342	-0.004	12386	58.2	3	6.587	-0.007	7362	57.2
	Total Col1Ave (3 peaks):				30.7	Total Col2Ave (3 peaks):				27.6 RPD = 11
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.742	0.060	128	4.5	1	4.900	-0.011	388	25.4
Aroclor-1232	2	6.092	-0.001	2776	44.1	2	7.216	-0.008	15516	182.9
Aroclor-1232	3	7.615	-0.036	64995	260.7	3	7.822	-0.040	38252	228.5
Aroclor-1232	4	8.537	-0.026	25059	215.8	4	8.675	-0.018	13588	263.5
	Total Col1Ave (4 peaks):				131.3	Total Col2Ave (4 peaks):				175.1 RPD = 29
	Corrected Ave (3 peaks):				88.1	Corrected Ave (3 peaks):				145.6 RPD = 49*
Aroclor-1242	1	7.230	-0.005	19396	106.4	1	7.216	-0.006	15516	100.8
Aroclor-1242	2	7.615	-0.016	64995	130.5	2	7.822	-0.024	38252	124.2
Aroclor-1242	3	8.414	-0.011	13804	115.9	3	9.198	0.041	7629	71.6
Aroclor-1242	4	8.537	-0.018	25059	101.1	4	9.657	0.067	5480	50.1
	Total Col1Ave (4 peaks):				113.5	Total Col2Ave (4 peaks):				86.7 RPD = 27
	Corrected Ave (3 peaks):				107.8	Corrected Ave (3 peaks):				74.2 RPD = 37
Aroclor-1248	1	8.366	-0.011	22691	50.8	1	8.270	-0.012	15016	80.8
Aroclor-1248	2	8.537	-0.019	25059	67.0	2	8.675	-0.013	13588	83.0
Aroclor-1248	3	8.955	-0.005	33011	29.6	3	9.119	-0.037	10077	50.2
Aroclor-1248	4	9.257	-0.011	38809	66.2	4	9.539	-0.044	9578	44.7
	Total Col1Ave (4 peaks):				53.4	Total Col2Ave (4 peaks):				64.7 RPD = 19
	Corrected Ave (3 peaks):				48.8	Corrected Ave (3 peaks):				58.6 RPD = 18
Aroclor-1254	1	9.257	-0.016	38809	61.5	1	9.409	-0.019	22441	84.7
Aroclor-1254	2	9.332	-0.024	15022	50.2	2	9.539	0.013	9578	59.3
Aroclor-1254	3	9.630	-0.016	25355	63.6	3	9.927	-0.022	11033	51.4
Aroclor-1254	4	9.758	-0.028	51993	64.2	4	10.083	-0.023	41229	88.8
Aroclor-1254	5	10.080	-0.081	77703	129.8	5	10.326	-0.027	52215	97.8
	Total Col1Ave (5 peaks):				73.9	Total Col2Ave (5 peaks):				76.4 RPD = 3
	Corrected Ave (4 peaks):				59.9	Corrected Ave (4 peaks):				71.1 RPD = 17
Aroclor-1260	1	11.002	-0.014	37978	107.7	1	11.610	-0.015	32439	111.1
Aroclor-1260	2	11.316	-0.018	32250	90.2	2	11.871	-0.020	68743	89.7
Aroclor-1260	3	11.688	-0.023	96192	103.6	3	12.388	-0.018	26710	153.0
Aroclor-1260	4	12.091	-0.027	44451	96.6	4	12.455	-0.020	46819	89.6
Aroclor-1260	5	12.202	-0.014	18998	90.0	NS	---			----
	Total Col1Ave (5 peaks):				97.6	Total Col2Ave (4 peaks):				110.8 RPD = 13
	Corrected Ave (4 peaks):				95.1	Corrected Ave (3 peaks):				96.8 RPD = 2
Aroclor-1262	1	10.779	-0.030	97131	398.6	1	11.155	-0.018	26260	64.0
Aroclor-1262	2	12.202	-0.015	18998	44.6	2	11.610	-0.014	32439	93.8
Aroclor-1262	3	12.275	-0.017	23944	51.2	3	12.388	-0.016	26710	73.4
Aroclor-1262	4	12.942	-0.020	24695	65.5	4	12.455	-0.021	46819	74.4
	Total Col1Ave (4 peaks):				140.0	Total Col2Ave (4 peaks):				76.4 RPD = 59*
	Corrected Ave (3 peaks):				53.8	Corrected Ave (3 peaks):				70.6 RPD = 27
Aroclor-1268	1	12.202	-0.016	18998	17.7	1	12.388	-0.016	26710	28.1
Aroclor-1268	2	12.275	-0.016	23944	21.5	2	12.455	-0.017	46819	43.5
Aroclor-1268	3	12.677	0.008	11299	12.2	3	12.847	-0.011	2181	2.5
Aroclor-1268	4	13.447	-0.014	7617	2.8	4	13.662	-0.015	9562	3.5
	Total Col1Ave (4 peaks):				13.5	Total Col2Ave (4 peaks):				19.4 RPD = 36

Corrected Ave (3 peaks): 10.9 Corrected Ave (3 peaks): 11.4 RPD = 4

Total PCB Area Col1 (5.866 - 13.762) = 1415186 Col1 Total PCB = 0.2 ppm*

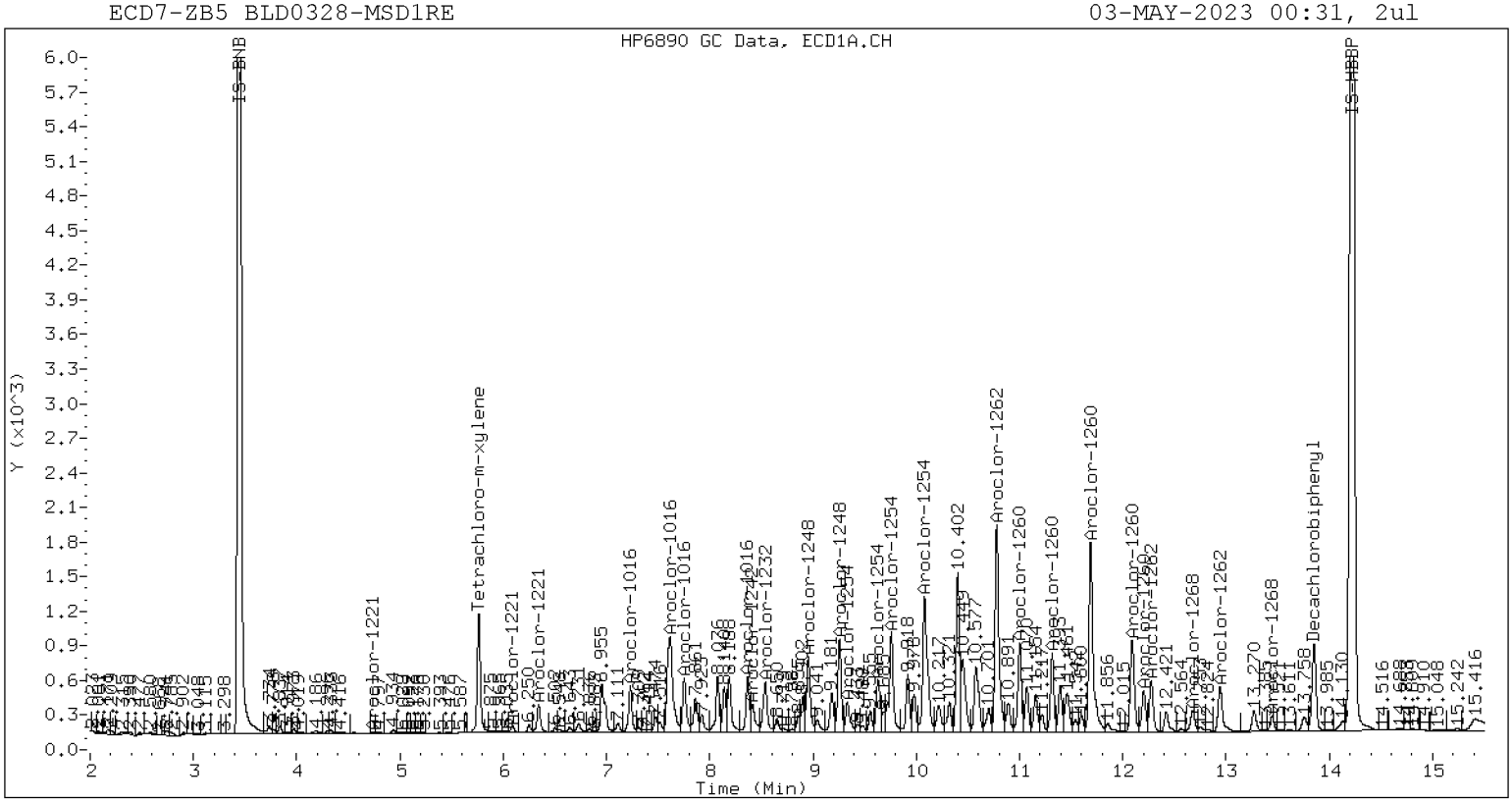
Total PCB Area Col2 (5.749 - 13.983) = 944407 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

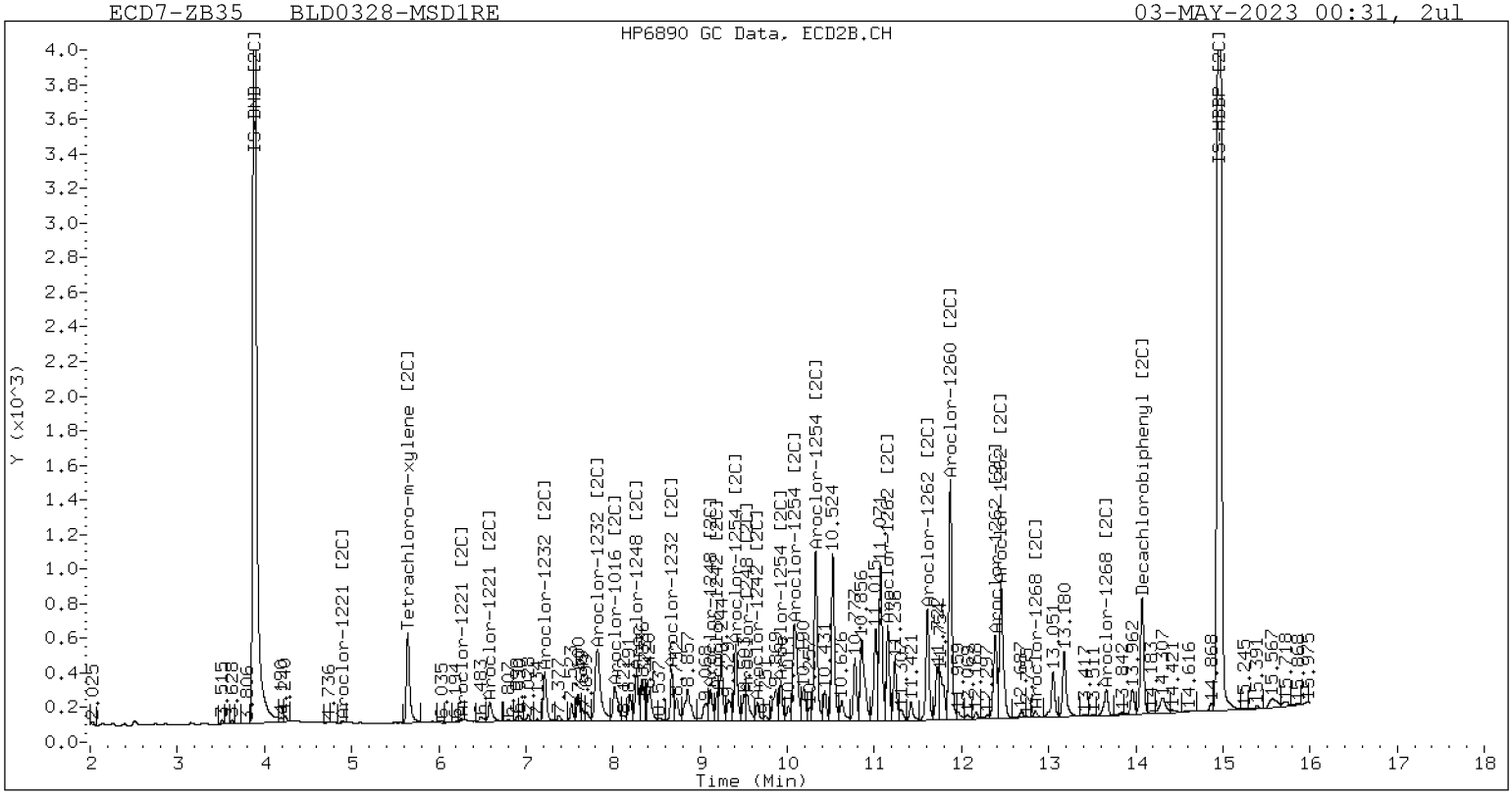
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0328-MSD1RE 03-MAY-2023 00:31, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 BLD0328-MSD1RE 03-MAY-2023 00:31, 2ul

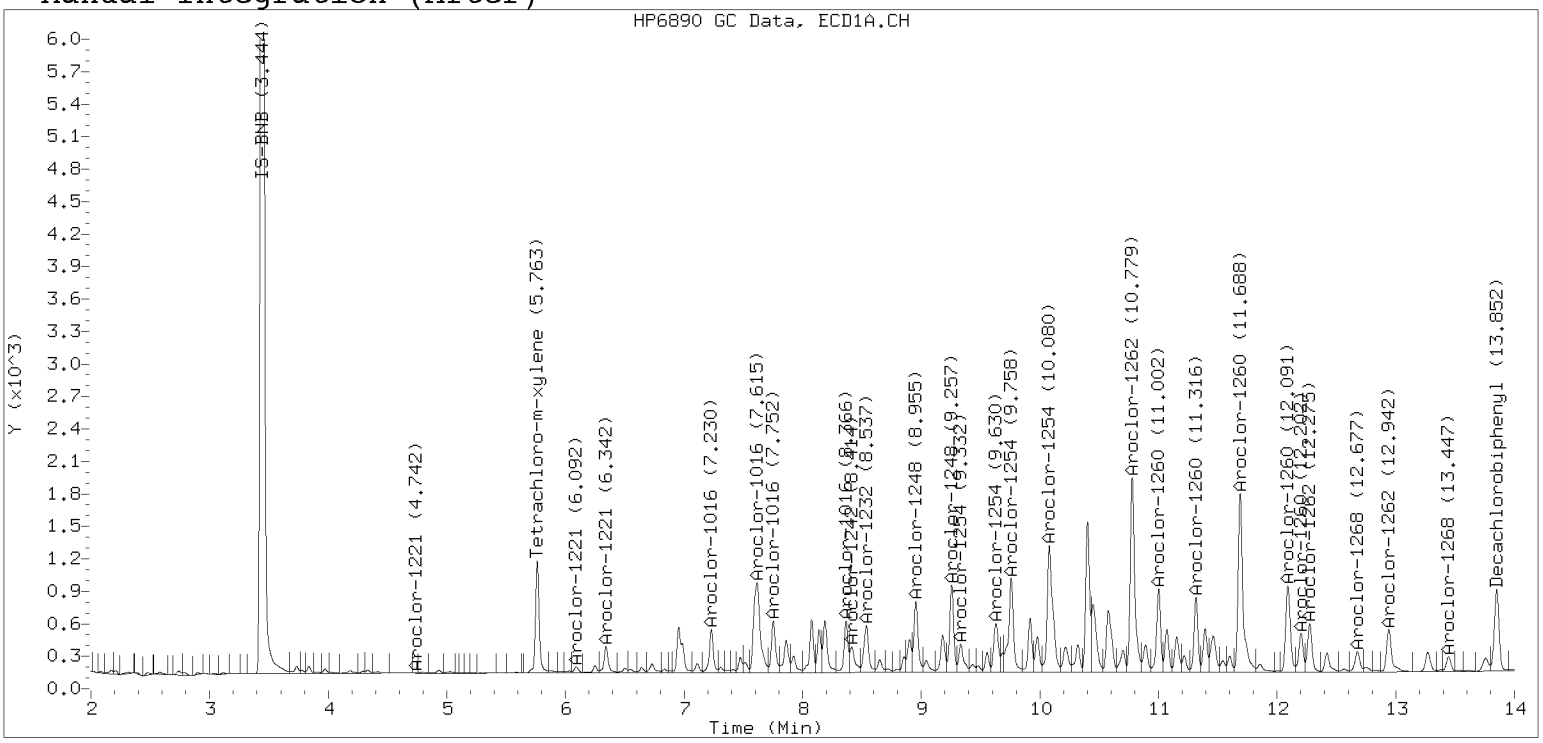


ZB-35 Manual Integration: NO

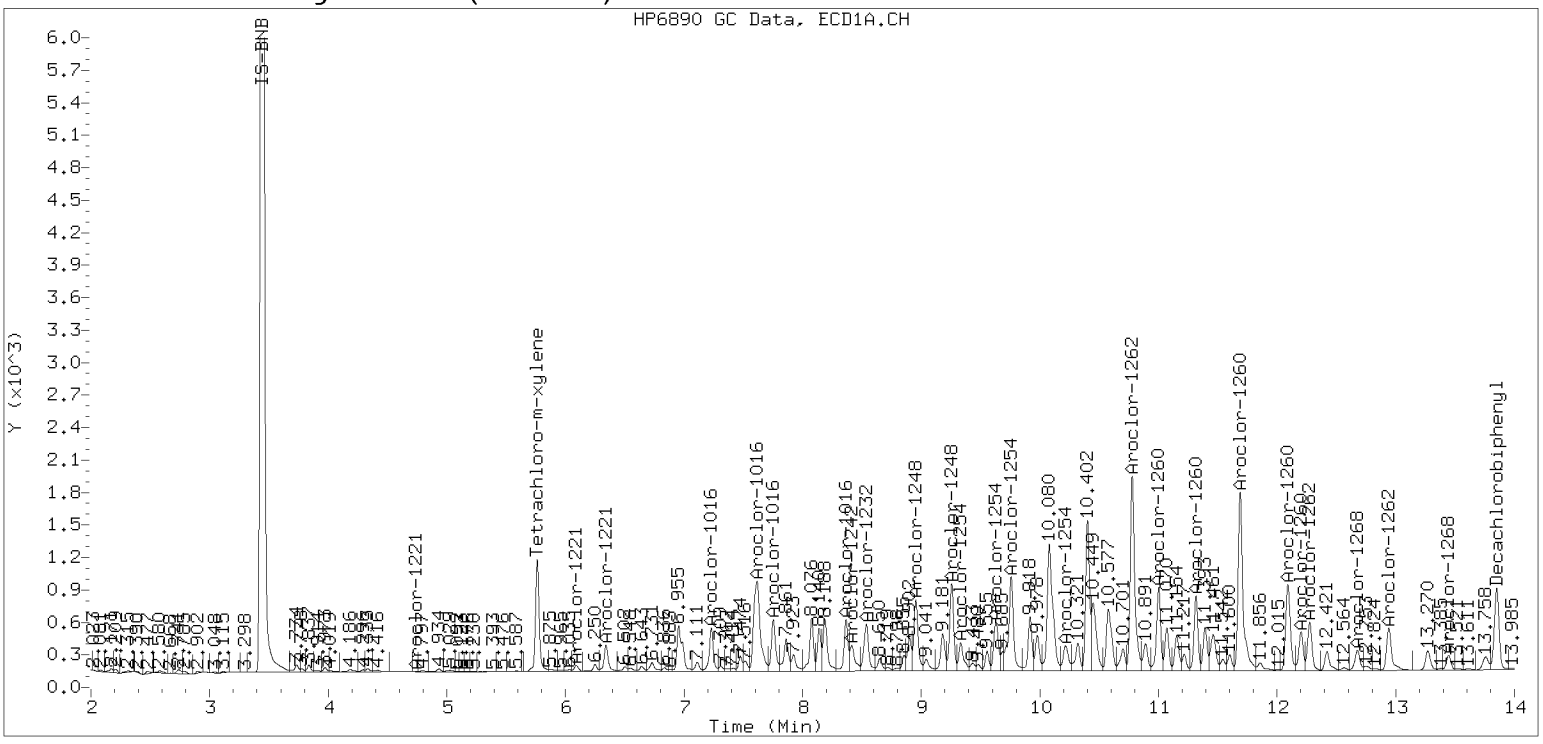
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230502.b/05022339ECD7.D Injection Date: 03-MAY-2023 00:31

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0328-SRM1
Batch: BLD0328
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 05/02/2023 23:07
Standard ID: K003636
Expires: 04/15/2023
Standard Lot#: PSRM0153
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	100	2.9	20.0		93.0	38 - 167
Aroclor 1260 [2C]	108.00	114	2.9	20.0		106	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022335ECD7.D
Data file 2: /230502.b/230502.b/05022335ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLD0328-SRM1
Client ID:
Injection Date: 02-MAY-2023 23:07
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.763	-0.002	252969	5.645	-0.004	146596	29.8	30.3	1.5	Tetrachloro-m-xylene
13.854	-0.008	249867	14.075	-0.008	218099	32.0	30.6	4.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	580399	4.3
Hexabromobiphenyl	745660	721339	-3.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	344991	-1.0
Hexabromobiphenyl	429949	440401	2.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016 1	7.201	-0.035	7161	33.2	1	7.221	-0.001	3700	19.8
Aroclor-1016 2	7.616	-0.016	8658	14.6	2	7.826	-0.023	7400	20.0
Aroclor-1016 3	7.757	-0.007	3905	9.6	3	8.054	-0.004	2484	10.9
Aroclor-1016 4	8.367	-0.011	7635	36.5	4	8.270	-0.013	6960	41.1
Total Col1Ave (4 peaks):				23.4	Total Col2Ave (4 peaks):				23.0 RPD = 2
Corrected Ave (3 peaks):				19.1	Corrected Ave (3 peaks):				16.9 RPD = 12
Aroclor-1221 1	4.612	-0.070	168	3.8	1	4.895	-0.015	670	26.2
Aroclor-1221 2	6.040	-0.053	4158	46.7	2	6.305	0.040	5132	93.8
Aroclor-1221 3	6.347	0.001	822	3.9	3	6.601	0.007	3309	26.4
Total Col1Ave (3 peaks):				18.1	Total Col2Ave (3 peaks):				48.8 RPD = 92*
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232 1	4.612	-0.070	168	5.9	1	4.895	-0.016	670	45.1
Aroclor-1232 2	6.040	-0.053	4158	66.5	2	7.221	-0.004	3700	44.8
Aroclor-1232 3	7.665	0.014	3547	14.3	3	7.826	-0.037	7400	45.4
Aroclor-1232 4	8.539	-0.024	6994	60.6	4	8.677	-0.017	5334	106.3
Total Col1Ave (4 peaks):				36.8	Total Col2Ave (4 peaks):				60.4 RPD = 48*
Corrected Ave (3 peaks):				27.0	Corrected Ave (3 peaks):				45.1 RPD = 50*
Aroclor-1242 1	7.201	-0.034	7161	39.5	1	7.221	-0.001	3700	24.7
Aroclor-1242 2	7.616	-0.015	8658	17.5	2	7.826	-0.021	7400	24.7
Aroclor-1242 3	8.415	-0.010	3770	31.9	3	9.201	0.044	3716	35.8
Aroclor-1242 4	8.539	-0.016	6994	28.4	4	9.658	0.068	5737	53.9
Total Col1Ave (4 peaks):				29.3	Total Col2Ave (4 peaks):				34.8 RPD = 17
Corrected Ave (3 peaks):				25.9	Corrected Ave (3 peaks):				28.4 RPD = 9
Aroclor-1248 1	8.367	-0.010	7635	17.2	1	8.270	-0.012	6960	38.5
Aroclor-1248 2	8.539	-0.017	6994	18.8	2	8.677	-0.011	5334	33.5
Aroclor-1248 3	8.957	-0.003	22552	20.3	3	9.122	-0.034	6769	34.6
Aroclor-1248 4	9.259	-0.009	35639	61.1	4	9.542	-0.041	6554	31.4
Total Col1Ave (4 peaks):				29.4	Total Col2Ave (4 peaks):				34.5 RPD = 16
Corrected Ave (3 peaks):				18.8	Corrected Ave (3 peaks):				33.2 RPD = 55*
Aroclor-1254 1	9.259	-0.014	35639	56.8	1	9.411	-0.016	21283	82.5
Aroclor-1254 2	9.334	-0.022	14492	48.8	2	9.542	0.016	6554	41.7
Aroclor-1254 3	9.629	-0.016	21479	54.2	3	9.930	-0.019	10632	50.9
Aroclor-1254 4	9.762	-0.024	54277	67.4	4	10.088	-0.018	40013	88.5
Aroclor-1254 5	10.220	0.060	15885	26.7	5	10.330	-0.023	51191	98.5
Total Col1Ave (5 peaks):				50.8	Total Col2Ave (5 peaks):				72.4 RPD = 35
Corrected Ave (4 peaks):				46.6	Corrected Ave (4 peaks):				65.9 RPD = 34
Aroclor-1260 1	11.004	-0.013	44129	108.4	1	11.613	-0.012	36443	116.3
Aroclor-1260 2	11.317	-0.016	35706	86.4	2	11.874	-0.017	81592	99.2
Aroclor-1260 3	11.691	-0.020	116347	108.5	3	12.391	-0.015	27137	144.9
Aroclor-1260 4	12.094	-0.024	56505	106.3	4	12.457	-0.017	54141	96.6
Aroclor-1260 5	12.204	-0.013	22637	92.8	NS	---			----
Total Col1Ave (5 peaks):				100.5	Total Col2Ave (4 peaks):				114.3 RPD = 13
Corrected Ave (4 peaks):				98.5	Corrected Ave (3 peaks):				104.1 RPD = 6
Aroclor-1262 1	10.782	-0.027	104312	370.6	1	11.158	-0.015	32289	73.3
Aroclor-1262 2	12.204	-0.013	22637	46.0	2	11.613	-0.011	36443	98.3
Aroclor-1262 3	12.278	-0.014	28045	51.9	3	12.391	-0.012	27137	69.5
Aroclor-1262 4	12.945	-0.018	30520	70.0	4	12.457	-0.018	54141	80.2
Total Col1Ave (4 peaks):				134.6	Total Col2Ave (4 peaks):				80.3 RPD = 51*
Corrected Ave (3 peaks):				56.0	Corrected Ave (3 peaks):				74.3 RPD = 28
Aroclor-1268 1	12.204	-0.015	22637	18.3	1	12.391	-0.012	27137	26.7
Aroclor-1268 2	12.278	-0.012	28045	21.8	2	12.457	-0.014	54141	46.9
Aroclor-1268 3	12.683	0.014	13804	12.9	3	12.850	-0.008	1542	1.6
Aroclor-1268 4	13.448	-0.013	6871	2.2	4	13.664	-0.013	8197	2.8
Total Col1Ave (4 peaks):				13.8	Total Col2Ave (4 peaks):				19.5 RPD = 34

Corrected Ave (3 peaks): 11.1 Corrected Ave (3 peaks): 10.4 RPD = 7

Total PCB Area Col1 (5.866 - 13.762) = 1243029 Col1 Total PCB = 0.2 ppm*

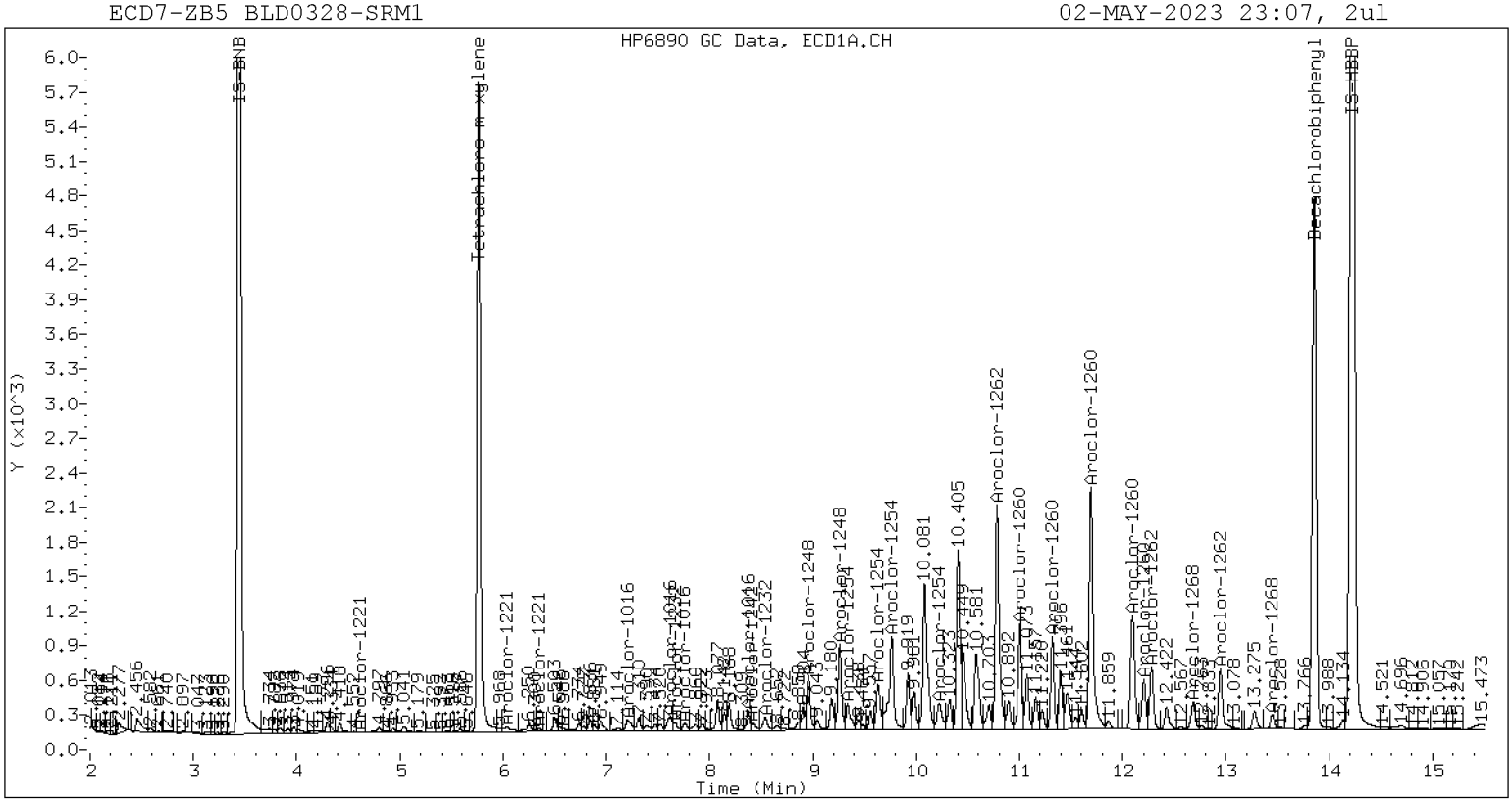
Total PCB Area Col2 (5.749 - 13.983) = 870520 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

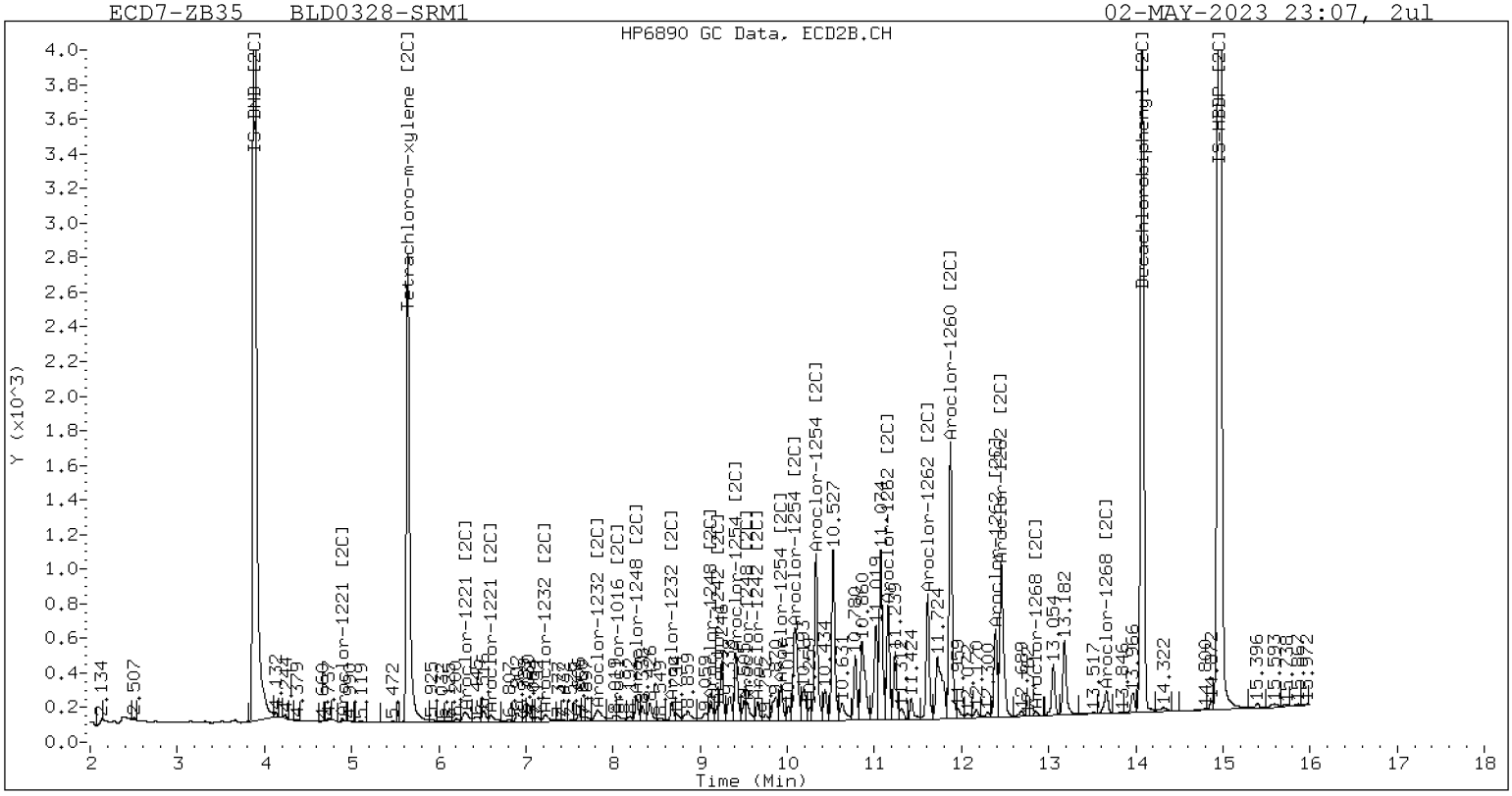
PCB Dual Column Chromatograms

ECD7-ZB5 BLD0328-SRM1 02-MAY-2023 23:07, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLD0328-SRM1 02-MAY-2023 23:07, 2ul



ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (1):	ZB5

Calibration Comments: ECD7 PCB ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Aroclor 1016	250	5.056783E-02	20	4.721433E-02	50	0.0513125	1000	0.0466938	100	5.060817E-02	500	4.975368E-02
Aroclor-1016 (1)	250	3.263958E-02	20	2.818093E-02	50	3.456732E-02	1000	2.658949E-02	100	3.409616E-02	500	2.953707E-02
Aroclor-1016 (2)	250	8.726708E-02	20	6.830245E-02	50	7.643699E-02	1000	8.946717E-02	100	7.961956E-02	500	9.101418E-02
Aroclor-1016 (3)	250	0.0530806	20	6.490495E-02	50	6.485228E-02	1000	0.0429376	100	0.0582397	500	4.902967E-02
Aroclor-1016 (4)	250	2.928404E-02	20	0.027469	50	0.0293934	1000	2.778089E-02	100	3.047728E-02	500	2.943378E-02
Aroclor 1260	250	6.484954E-02	20	6.161974E-02	50	5.943495E-02	1000	5.513393E-02	100	0.0583577	500	5.569976E-02
Aroclor-1260 (1)	250	5.025046E-02	20	0.048291	50	4.640952E-02	1000	4.085685E-02	100	4.364709E-02	500	4.155521E-02
Aroclor-1260 (2)	250	5.079248E-02	20	0.0475396	50	4.625285E-02	1000	4.287829E-02	100	4.464574E-02	500	0.0428166
Aroclor-1260 (3)	250	0.1317499	20	0.121439	50	0.1205215	1000	0.1104033	100	0.1178843	500	0.1114432
Aroclor-1260 (4)	250	6.305458E-02	20	6.180665E-02	50	5.678142E-02	1000	5.671439E-02	100	5.824422E-02	500	5.717673E-02
Aroclor-1260 (5)	250	2.840029E-02	20	0.0290225	50	2.720953E-02	1000	2.481678E-02	100	2.736718E-02	500	2.550705E-02
Decachlorobiphenyl	40	0.8620444	3.2	0.9311091	8	0.9494266	160	0.7622335	16	0.8909056	80	0.807456
Tetrachlorometaxylene	40	1.205885	3.2	1.142339	8	1.245982	160	1.091444	16	1.176406	80	1.152149

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (1):	ZB5

Calibration Comments: ECD7 PCB ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.584936E-02				
Aroclor-1221 (1)							250	6.123226E-03				
Aroclor-1221 (2)							250	0.0122844				
Aroclor-1221 (3)							250	2.914046E-02				
Aroclor 1232									250	1.564296E-02		
Aroclor-1232 (1)									250	3.893573E-03		
Aroclor-1232 (2)									250	8.613407E-03		
Aroclor-1232 (3)									250	3.415578E-02		
Aroclor-1232 (4)									250	0.0159091		
Aroclor 1242	250	3.752427E-02										
Aroclor-1242 (1)	250	0.0249622										
Aroclor-1242 (2)	250	6.823346E-02										
Aroclor-1242 (3)	250	2.294635E-02										
Aroclor-1242 (4)	250	3.395507E-02										
Aroclor 1248			250	8.080314E-02								
Aroclor-1248 (1)			250	3.865209E-02								
Aroclor-1248 (2)			250	5.125333E-02								
Aroclor-1248 (3)			250	0.1529725								
Aroclor-1248 (4)			250	8.033468E-02								
Aroclor 1254					250	7.026587E-02						
Aroclor-1254 (1)					250	8.641465E-02						
Aroclor-1254 (2)					250	4.095794E-02						
Aroclor-1254 (3)					250	0.054634						
Aroclor-1254 (4)					250	0.1109842						
Aroclor-1254 (5)					250	5.833854E-02						
Aroclor 1262							250	4.849915E-02				
Aroclor-1262 (1)							250	3.121886E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (1):	ZB5

Calibration Comments: ECD7 PCB ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (2)							250	5.451848E-02				
Aroclor-1262 (3)							250	5.992317E-02				
Aroclor-1262 (4)							250	0.0483361				
Aroclor 1268									250	0.1857986		
Aroclor-1268 (1)									250	0.1373364		
Aroclor-1268 (2)									250	0.1429928		
Aroclor-1268 (3)									250	0.1189357		
Aroclor-1268 (4)									250	0.3439297		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (1):	ZB5

Calibration Comments: ECD7 PCB ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	4.935838E-02	3.9			RSD (20)	
Aroclor-1016 (1)	3.093509E-02	10.7			RSD (20)	
Aroclor-1016 (2)	0.0820179	10.8			RSD (20)	
Aroclor-1016 (3)	5.550747E-02	15.9			RSD (20)	
Aroclor-1016 (4)	2.897306E-02	3.9			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (1):	ZB5

Calibration Comments: ECD7 PCB ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1260	0.0591826	6.2			RSD (20)	
Aroclor-1260 (1)	4.516836E-02	8.3			RSD (20)	
Aroclor-1260 (2)	4.582093E-02	6.7			RSD (20)	
Aroclor-1260 (3)	0.1189069	6.5			RSD (20)	
Aroclor-1260 (4)	0.058963	4.7			RSD (20)	
Aroclor-1260 (5)	2.705389E-02	6.0			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.8671959	8.3			RSD (20)	
Tetrachlorometaxylene	1.169034	4.6			RSD (20)	

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (2):	ZB35

Calibration Comments: ECD7 PCB ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Aroclor 1016 [2C]	250	5.505636E-02	20	6.107309E-02	50	6.002524E-02	1000	4.921421E-02	100	5.518314E-02	500	0.0523458
Aroclor-1016 (1) [2C]	250	4.342049E-02	20	4.739614E-02	50	4.740637E-02	1000	3.722123E-02	100	4.387657E-02	500	4.062668E-02
Aroclor-1016 (2) [2C]	250	8.935883E-02	20	7.387129E-02	50	9.113975E-02	1000	8.675969E-02	100	8.360505E-02	500	8.908324E-02
Aroclor-1016 (3) [2C]	250	5.114483E-02	20	7.122377E-02	50	5.809185E-02	1000	4.282698E-02	100	0.0525844	500	4.639808E-02
Aroclor-1016 (4) [2C]	250	3.630128E-02	20	5.180115E-02	50	4.346298E-02	1000	3.004894E-02	100	4.066653E-02	500	3.327522E-02
Aroclor 1260 [2C]	250	9.086845E-02	20	8.891759E-02	50	9.133645E-02	1000	7.819496E-02	100	8.344865E-02	500	8.032869E-02
Aroclor-1260 (1) [2C]	250	6.037032E-02	20	0.0608685	50	6.124292E-02	1000	0.0508431	100	5.563162E-02	500	0.0525359
Aroclor-1260 (2) [2C]	250	0.1599066	20	0.1527289	50	0.1595204	1000	0.1367161	100	0.1473203	500	0.139962
Aroclor-1260 (3) [2C]	250	3.558897E-02	20	3.459903E-02	50	0.0353228	1000	3.355193E-02	100	3.170584E-02	500	3.330675E-02
Aroclor-1260 (4) [2C]	250	0.1076079	20	0.1074739	50	0.1092597	1000	0.0916687	100	9.913688E-02	500	9.551002E-02
Decachlorobiphenyl [2C]	40	1.350649	3.2	1.229339	8	1.342633	160	1.273092	16	1.288975	80	1.288255
Tetrachlorometaxylene [2C]	40	1.132033	3.2	1.135685	8	1.232705	160	1.052431	16	1.100134	80	1.085933

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (2):	ZB35

Calibration Comments: ECD7 PCB ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	1.588673E-02				
Aroclor-1221 (1) [2C]							250	5.938963E-03				
Aroclor-1221 (2) [2C]							250	1.268641E-02				
Aroclor-1221 (3) [2C]							250	2.903483E-02				
Aroclor 1232 [2C]									250	1.800803E-02		
Aroclor-1232 (1) [2C]									250	3.443199E-03		
Aroclor-1232 (2) [2C]									250	1.915234E-02		
Aroclor-1232 (3) [2C]									250	3.779751E-02		
Aroclor-1232 (4) [2C]									250	1.163907E-02		
Aroclor 1242 [2C]	250	3.825533E-02										
Aroclor-1242 (1) [2C]	250	3.475792E-02										
Aroclor-1242 (2) [2C]	250	6.953199E-02										
Aroclor-1242 (3) [2C]	250	2.404682E-02										
Aroclor-1242 (4) [2C]	250	2.468459E-02										
Aroclor 1248 [2C]			250	4.314235E-02								
Aroclor-1248 (1) [2C]			250	4.197231E-02								
Aroclor-1248 (2) [2C]			250	3.694382E-02								
Aroclor-1248 (3) [2C]			250	4.531488E-02								
Aroclor-1248 (4) [2C]			250	4.833837E-02								
Aroclor 1254 [2C]					250	7.399525E-02						
Aroclor-1254 (1) [2C]					250	0.0598131						
Aroclor-1254 (2) [2C]					250	3.645383E-02						
Aroclor-1254 (3) [2C]					250	4.841718E-02						
Aroclor-1254 (4) [2C]					250	0.1048212						
Aroclor-1254 (5) [2C]					250	0.120471						
Aroclor 1262 [2C]							250	0.0852231				
Aroclor-1262 (1) [2C]							250	7.997486E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (2):	ZB35

Calibration Comments: ECD7 PCB ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (2) [2C]							250	6.736027E-02				
Aroclor-1262 (3) [2C]							250	7.094302E-02				
Aroclor-1262 (4) [2C]							250	0.1226143				
Aroclor 1268 [2C]									250	0.2740532		
Aroclor-1268 (1) [2C]									250	0.1849198		
Aroclor-1268 (2) [2C]									250	0.2098056		
Aroclor-1268 (3) [2C]									250	0.1733282		
Aroclor-1268 (4) [2C]									250	0.5281591		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (2):	ZB35

Calibration Comments: ECD7 PCB ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	5.548297E-02	8.1			RSD (20)	
Aroclor-1016 (1) [2C]	4.332458E-02	9.1			RSD (20)	
Aroclor-1016 (2) [2C]	8.563631E-02	7.4			RSD (20)	
Aroclor-1016 (3) [2C]	5.371165E-02	18.7			RSD (20)	
Aroclor-1016 (4) [2C]	3.925935E-02	19.9			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00002	Instrument:	ECD7
Calibration Date:	04/28/2023	Column (2):	ZB35

Calibration Comments: ECD7 PCB ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1260 [2C]	0.0855158	6.6			RSD (20)	
Aroclor-1260 (1) [2C]	5.691539E-02	8.0			RSD (20)	
Aroclor-1260 (2) [2C]	0.149359	6.5			RSD (20)	
Aroclor-1260 (3) [2C]	3.401255E-02	4.3			RSD (20)	
Aroclor-1260 (4) [2C]	0.1017762	7.2			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.295491	3.5			RSD (20)	
Tetrachlorometaxylene [2C]	1.123153	5.5			RSD (20)	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0427

Instrument: ECD7
Calibration ID: GE00002

Printed: 5/1/2023 12:46:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0427-CAL1	QC		1		L000856	L000844		
SLD0427-CAL2	QC		2		L000859	L000844		
SLD0427-CAL3	QC		3		L000858	L000844		
SLD0427-CAL4	QC		4		L000731	L000844		
SLD0427-CAL5	QC		5		L000857	L000844		
SLD0427-CAL6	QC		6		L000855	L000844		
SLD0427-CAL7	QC		7		L000860	L000844		
SLD0427-CAL8	QC		8		L000861	L000844		
SLD0427-CAL9	QC		9		L000862	L000844		
SLD0427-CALA	QC		10		L000863	L000844		
SLD0427-CALB	QC		11		L000864	L000844		
SLD0427-SCV1	QC		12		L002065	L000844		
SLD0427-SCV2	QC		13		L003970	L000844		
SLD0427-SCV3	QC		14		L002066	L000844		
SLD0427-SCV4	QC		15		L002067	L000844		
SLD0427-SCV5	QC		16		L002068	L000844		
SLD0427-SCV6	QC		17		L002069	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	28-APR-2023 09:39	04282301ECD7.D	1	AR1660	
2	28-APR-2023 11:28	04282302ECD7.D	1		
3	28-APR-2023 11:59	04282303ECD7.D	1	IB	
4	28-APR-2023 12:20	04282304ECD7.D	1	0.25PPMAR1660	
5	28-APR-2023 12:41	04282305ECD7.D	1	0.02PPMAR1660	
6	28-APR-2023 13:02	04282306ECD7.D	1	0.05PPMAR1660	
7	28-APR-2023 13:23	04282307ECD7.D	1	1.0PPMAR1660	
8	28-APR-2023 13:43	04282308ECD7.D	1	0.1PPMAR1660	
9	28-APR-2023 14:04	04282309ECD7.D	1	0.5PPMAR1660	
10	28-APR-2023 14:25	04282310ECD7.D	1	0.25PPMAR1242	
11	28-APR-2023 14:46	04282311ECD7.D	1	0.25PPMAR1248	
12	28-APR-2023 15:07	04282312ECD7.D	1	0.25PPMAR1254	
13	28-APR-2023 15:28	04282313ECD7.D	1	0.25PPMAR2162	
14	28-APR-2023 15:49	04282314ECD7.D	1	0.25PPMAR3268	
15	28-APR-2023 16:09	04282315ECD7.D	1	AR1660SCV	
16	28-APR-2023 16:30	04282316ECD7.D	1	AR1242SCV	
17	28-APR-2023 16:51	04282317ECD7.D	1	AR1248SCV	
18	28-APR-2023 17:12	04282318ECD7.D	1	AR1254SCV	
19	28-APR-2023 17:33	04282319ECD7.D	1	AR2162SCV	
20	28-APR-2023 17:54	04282320ECD7.D	1	AR3268SCV	
21	28-APR-2023 18:15	04282321ECD7.D	1	DDTS	
22	28-APR-2023 18:35	04282322ECD7.D	1	DDT BD	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b

ARI Job No.: AR16 Method: PCB.m Instrument: ecd7.i Date: 28-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0939	04282301ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1128	04282302ECD7.D			1	NO MANUAL INTEGRATION
1159	04282303ECD7.D	IB		1	NO MANUAL INTEGRATION
1220	04282304ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1241	04282305ECD7.D	0.02PPMAR1660		1	Aroclor-1016,
1302	04282306ECD7.D	0.05PPMAR1660		1	Aroclor-1016,
1323	04282307ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1343	04282308ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1404	04282309ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1425	04282310ECD7.D	0.25PPMAR1242		1	Aroclor-1242,
1446	04282311ECD7.D	0.25PPMAR1248		1	Aroclor-1248,
1507	04282312ECD7.D	0.25PPMAR1254		1	Aroclor-1254,
1528	04282313ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1549	04282314ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1609	04282315ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1630	04282316ECD7.D	AR1242SCV		1	Aroclor-1242,
1651	04282317ECD7.D	AR1248SCV		1	Aroclor-1016, Aroclor-1242, Aroclor-1248,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1712	04282318ECD7.D	AR1254SCV		1	Aroclor-1254,
1733	04282319ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1754	04282320ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1815	04282321ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1835	04282322ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
0939	04282301ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1128	04282302ECD7.D	RINSE		1	NO MANUAL INTEGRATION
1159	04282303ECD7.D	IB		1	NO MANUAL INTEGRATION
1220	04282304ECD7.D	0.25PPMAR1660		1	IS-BNB [2C],
1241	04282305ECD7.D	0.02PPMAR1660		1	Aroclor-1016 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1302	04282306ECD7.D	0.05PPMAR1660		1	Aroclor-1016 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1323	04282307ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1343	04282308ECD7.D	0.1PPMAR1660		1	Aroclor-1016 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1404	04282309ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1425	04282310ECD7.D	0.25PPMAR1242		1	Aroclor-1242 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1446	04282311ECD7.D	0.25PPMAR1248		1	Aroclor-1248 [2C],
1507	04282312ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1528	04282313ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b\230428.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1549	04282314ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1609	04282315ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1630	04282316ECD7.D	AR1242SCV		1	Aroclor-1242 [2C],
1651	04282317ECD7.D	AR1248SCV		1	Aroclor-1248 [2C],
1712	04282318ECD7.D	AR1254SCV		1	Aroclor-1254 [2C],
1733	04282319ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1754	04282320ECD7.D	AR3268SCV		1	Aroclor-1232 [2C], Aroclor-1242 [2C], Aroclor-1248 [2C],
1815	04282321ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1835	04282322ECD7.D	DDT BD		1	NO MANUAL INTEGRATION

Security Status Report

Date: 01-May-2023 12:34

04282301ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282302ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282303ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282304ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282305ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282306ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282307ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282308ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282309ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282310ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282311ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282312ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282313ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282314ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282315ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282316ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282317ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282318ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282319ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282320ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282321ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282322ECD7.D	Data Locked	richardl, 01-May-2023 12:34

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m
Last Edit : 01-May-2023 12:04 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230428.b\04282305ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230428.b\04282306ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230428.b\04282308ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230428.b\04282304ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230428.b\04282309ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230428.b\04282307ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230428.b\04282314ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00612	0.00612	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01228	0.01228	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02914	0.02914	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02496	0.02496	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.06823	0.06823	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02295	0.02295	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.03396	0.03396	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00389	0.00389	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m
Last Edit : 01-May-2023 12:04 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.00861						0.00861	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03416						0.03416	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.01591						0.01591	0.000
7 Aroclor-1016(1)	0.02818	0.03457	0.03410	0.03264	0.02954	0.02659		
	+++++						0.03094	10.674
(2)	0.06830	0.07644	0.07962	0.08727	0.09101	0.08947		
	+++++						0.08202	10.754
(3)	0.06455	0.06485	0.05824	0.05308	0.04903	0.04294		
	+++++						0.05545	15.773
(4)	0.02747	0.02939	0.03048	0.02928	0.02943	0.02778		
	+++++						0.02897	3.915
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.03865						0.03865	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.05125						0.05125	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.15297						0.15297	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++		
	0.08033						0.08033	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m
Last Edit : 01-May-2023 12:04 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.08641	0.08641	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.04096	0.04096	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.05463	0.05463	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.11098	0.11098	0.000
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.05834	0.05834	0.000
9 Aroclor-1260(1)	0.04829	0.04641	0.04365	0.05025	0.04156	0.04086	+++++	0.04517	8.347
(2)	0.04754	0.04625	0.04465	0.05079	0.04282	0.04288	+++++	0.04582	6.686
(3)	0.12144	0.12052	0.11788	0.13175	0.11144	0.11040	+++++	0.11891	6.547
(4)	0.06181	0.05678	0.05824	0.06305	0.05718	0.05671	+++++	0.05896	4.697
(5)	0.02902	0.02721	0.02737	0.02840	0.02551	0.02482	+++++	0.02705	6.008
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03122	0.03122	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m
Last Edit : 01-May-2023 12:04 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	___ RRF	% RSD
(2)	+++++ / 0.05452	+++++	+++++	+++++	+++++	+++++	0.05452	0.000
(3)	+++++ / 0.05992	+++++	+++++	+++++	+++++	+++++	0.05992	0.000
(4)	+++++ / 0.04834	+++++	+++++	+++++	+++++	+++++	0.04834	0.000
11 Aroclor-1268(1)	+++++ / 0.13734	+++++	+++++	+++++	+++++	+++++	0.13734	0.000
(2)	+++++ / 0.14299	+++++	+++++	+++++	+++++	+++++	0.14299	0.000
(3)	+++++ / 0.11894	+++++	+++++	+++++	+++++	+++++	0.11894	0.000
(4)	+++++ / 0.34393	+++++	+++++	+++++	+++++	+++++	0.34393	0.000
42 2,4-DDE	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 2,4-DDD	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 2,4-DDT	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 4,4-DDE	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m
Last Edit : 01-May-2023 12:04 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1.14234	1.24598	1.17641	1.20588	1.15215	1.09144	+++++	1.16903	4.583
$ 13 Decachlorobiphenyl	0.93111	0.94943	0.89091	0.86204	0.80746	0.76223	+++++	0.86720	8.319

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Last Edit : 01-May-2023 12:08 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282305ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282306ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282308ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282304ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282309ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282307ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230428.b\230428.b\04282314ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
1 Aroclor-1221 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00594	0.00594	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01269	0.01269	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02903	0.02903	0.000
4 Aroclor-1232 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00344	0.00344	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01915	0.01915	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.03780	0.03780	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01164	0.01164	0.000
3 Aroclor-1242 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03476	0.03476	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Last Edit : 01-May-2023 12:08 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	0.06953	0.06953	0.000
(3)	*****	*****	*****	*****	*****	*****	0.02405	0.02405	0.000
(4)	*****	*****	*****	*****	*****	*****	0.02468	0.02468	0.000
6 Aroclor-1248 [2C](1)	*****	*****	*****	*****	*****	*****	0.04197	0.04197	0.000
(2)	*****	*****	*****	*****	*****	*****	0.03694	0.03694	0.000
(3)	*****	*****	*****	*****	*****	*****	0.04531	0.04531	0.000
(4)	*****	*****	*****	*****	*****	*****	0.04834	0.04834	0.000
7 Aroclor-1016 [2C](1)	0.04740	0.04741	0.04388	0.04342	0.04063	0.03722	*****	0.04332	9.121
(2)	0.07387	0.09114	0.08361	0.08936	0.08908	0.08676	*****	0.08564	7.382
(3)	0.06512	0.05809	0.05258	0.05114	0.04640	0.04283	*****	0.05269	15.250
(4)	0.05180	0.04346	0.04067	0.03630	0.03328	0.03005	*****	0.03926	19.938

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Last Edit : 01-May-2023 12:08 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254 [2C](1)	*****	*****	*****	*****	*****	*****	0.05981	0.05981	0.000
(2)	*****	*****	*****	*****	*****	*****	0.03645	0.03645	0.000
(3)	*****	*****	*****	*****	*****	*****	0.04842	0.04842	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10482	0.10482	0.000
(5)	*****	*****	*****	*****	*****	*****	0.12047	0.12047	0.000
10 Aroclor-1262 [2C](1)	*****	*****	*****	*****	*****	*****	0.07997	0.07997	0.000
(2)	*****	*****	*****	*****	*****	*****	0.06736	0.06736	0.000
(3)	*****	*****	*****	*****	*****	*****	0.07094	0.07094	0.000
(4)	*****	*****	*****	*****	*****	*****	0.12261	0.12261	0.000
9 Aroclor-1260 [2C](1)	0.06087	0.06124	0.05563	0.06037	0.05254	0.05084	*****	0.05692	8.013
(2)	0.15273	0.15952	0.14732	0.15991	0.13996	0.13672	*****	0.14936	6.547

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Last Edit : 01-May-2023 12:08 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	RRF	% RSD
(3)	0.03460	0.03532	0.03171	0.03559	0.03331	0.03355		
	*****						0.03401	4.276
(4)	0.10747	0.10926	0.09914	0.10761	0.09551	0.09167		
	*****						0.10178	7.232
11 Aroclor-1268 [2C](1)	*****	*****	*****	*****	*****	*****		
	0.18492						0.18492	0.000
(2)	*****	*****	*****	*****	*****	*****		
	0.20981						0.20981	0.000
(3)	*****	*****	*****	*****	*****	*****		
	0.17333						0.17333	0.000
(4)	*****	*****	*****	*****	*****	*****		
	0.52816						0.52816	0.000
41 2,4-DDE [2C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
42 2,4-DDD [2C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
44 4,4-DDE [2C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
45 4,4-DDD/2,4-DDT [2C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****
46 4,4-DDT [2C]	*****	*****	*****	*****	*****	*****		
	*****						*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 28-APR-2023 12:20
End Cal Date : 28-APR-2023 15:49
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Last Edit : 01-May-2023 12:08 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene [2C]	1.13569	1.23271	1.10013	1.13203	1.08593	1.05243	+++++	1.12315	5.511
$ 13 Decachlorobiphenyl [2C]	1.22934	1.34263	1.28898	1.35065	1.28826	1.27309	+++++	1.29549	3.493

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230428.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	04282304ECD7	04282305ECD7	04282306ECD7	04282307ECD7	04282308ECD7	04282309ECD7
INJ.DATE:	28-APR-2023	28-APR-2023	28-APR-2023	28-APR-2023	28-APR-2023	28-APR-2023
INJ.TIME:	12:20	12:41	13:02	13:23	13:43	14:04

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BNB	3.444	3.443	3.444	3.443	3.444	3.443	3.444	3.344-3.544	3.443	0.000
$ 1 Tetrachloro-m-xylene	5.767	5.766	5.766	5.767	5.766	5.766	5.766	5.666-5.866	5.766	0.000
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	4.682	4.582-4.782	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	7.236	7.136-7.336	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	4.682	4.582-4.782	+++++	+++++
7 Aroclor-1016	7.238	7.237	7.238	7.235	7.237	7.235	7.235	7.135-7.335	7.237	0.001
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	8.379	8.279-8.479	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	9.276	9.176-9.376	+++++	+++++
9 Aroclor-1260	11.020	11.025	11.023	11.015	11.021	11.017	11.017	10.917-11.117	11.020	0.003
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	10.809	10.709-10.909	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	12.218	12.118-12.318	+++++	+++++
$ 13 Decachlorobiphenyl	13.861	13.862	13.864	13.863	13.863	13.862	13.862	13.762-13.962	13.862	0.001
* 12 IS-HBBP	14.240	14.239	14.239	14.238	14.238	14.238	14.239	14.139-14.339	14.238	0.001
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.237	9.187-9.287	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.779	9.729-9.829	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.293	10.243-10.343	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.665	9.565-9.765	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230428.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	10.242	10.142-10.342	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.731	10.631-10.831	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.842	1.742-1.942	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	6.708	6.608-6.808	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230428.b\230428.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	04282304ECD7	04282305ECD7	04282306ECD7	04282307ECD7	04282308ECD7	04282309ECD7
INJ.DATE:	28-APR-2023	28-APR-2023	28-APR-2023	28-APR-2023	28-APR-2023	28-APR-2023
INJ.TIME:	12:20	12:41	13:02	13:23	13:43	14:04

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNB [2C]	3.883	3.883	3.883	3.883	3.883	3.883	3.883	3.783-3.983	3.883	0.000
$ 2 Tetrachloro-m-xylene [	5.650	5.654	5.651	5.649	5.651	5.650	5.650	5.550-5.750	5.651	0.002
1 Aroclor-1221 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.910	4.810-5.010	+++++	+++++
4 Aroclor-1232 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.911	4.811-5.011	+++++	+++++
3 Aroclor-1242 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	7.222	7.122-7.322	+++++	+++++
6 Aroclor-1248 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	8.285	8.185-8.385	+++++	+++++
7 Aroclor-1016 [2C]	7.224	7.227	8.291	7.222	8.290	7.221	7.224	7.124-7.324	7.579	0.551
8 Aroclor-1254 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.430	9.330-9.530	+++++	+++++
10 Aroclor-1262 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.173	11.073-11.273	+++++	+++++
9 Aroclor-1260 [2C]	11.626	11.630	11.629	11.623	11.627	11.624	11.626	11.526-11.726	11.627	0.003
11 Aroclor-1268 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	12.403	12.303-12.503	+++++	+++++
$ 13 Decachlorobiphenyl [2C	14.085	14.084	14.084	14.084	14.084	14.083	14.085	13.985-14.185	14.084	0.001
* 12 IS-HBBP [2C]	14.974	14.973	14.974	14.973	14.972	14.975	14.974	14.874-15.074	14.974	0.001
41 2,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.891	9.841-9.941	+++++	+++++
42 2,4-DDD [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.512	9.462-9.562	+++++	+++++
44 4,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.187	10.087-10.287	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.655	10.555-10.755	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230428.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230428.b\230428.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.093	10.993-11.193	+++++	+++++
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.703	1.603-1.803	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	7.178	7.078-7.278	+++++	+++++

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282303ECD7.D
Data file 2: /230428.b/230428.b/04282303ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 28-APR-2023 11:59
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.781	0.015	295586	5.649	-0.001	171130	36.4	35.5	2.5	Tetrachloro-m-xylene
13.867	0.006	243867	14.084	0.000	230484	35.5	37.0	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	555978	-0.1
Hexabromobiphenyl	745660	632957	-15.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	343614	-1.4
Hexabromobiphenyl	429949	384923	-10.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.298	0.033	1567	28.8
Aroclor-1221	3	---			0.0	3	6.608	0.014	415	3.3
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.072	0.054	359	1.0	1	---			0.0
Aroclor-1260	2	11.347	0.013	290	0.8	2	---			0.0
Aroclor-1260	3	11.661	-0.049	563	0.6	3	---			0.0
Aroclor-1260	4	12.133	0.018	348	0.7	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Total Col1Ave (4 peaks):			0.8		Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	12.133	-0.083	348	0.8	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	13.029	0.067	476	1.2	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	12.133	-0.085	348	0.3	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.673	0.004	1144	1.2	3	12.862	0.004	682	0.8
Aroclor-1268	4	13.471	0.011	5377	2.0	4	13.681	0.004	1376	0.5
	Total Col1Ave (3 peaks):			1.2		Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 29258 Col1 Total PCB = 0.0 ppm*

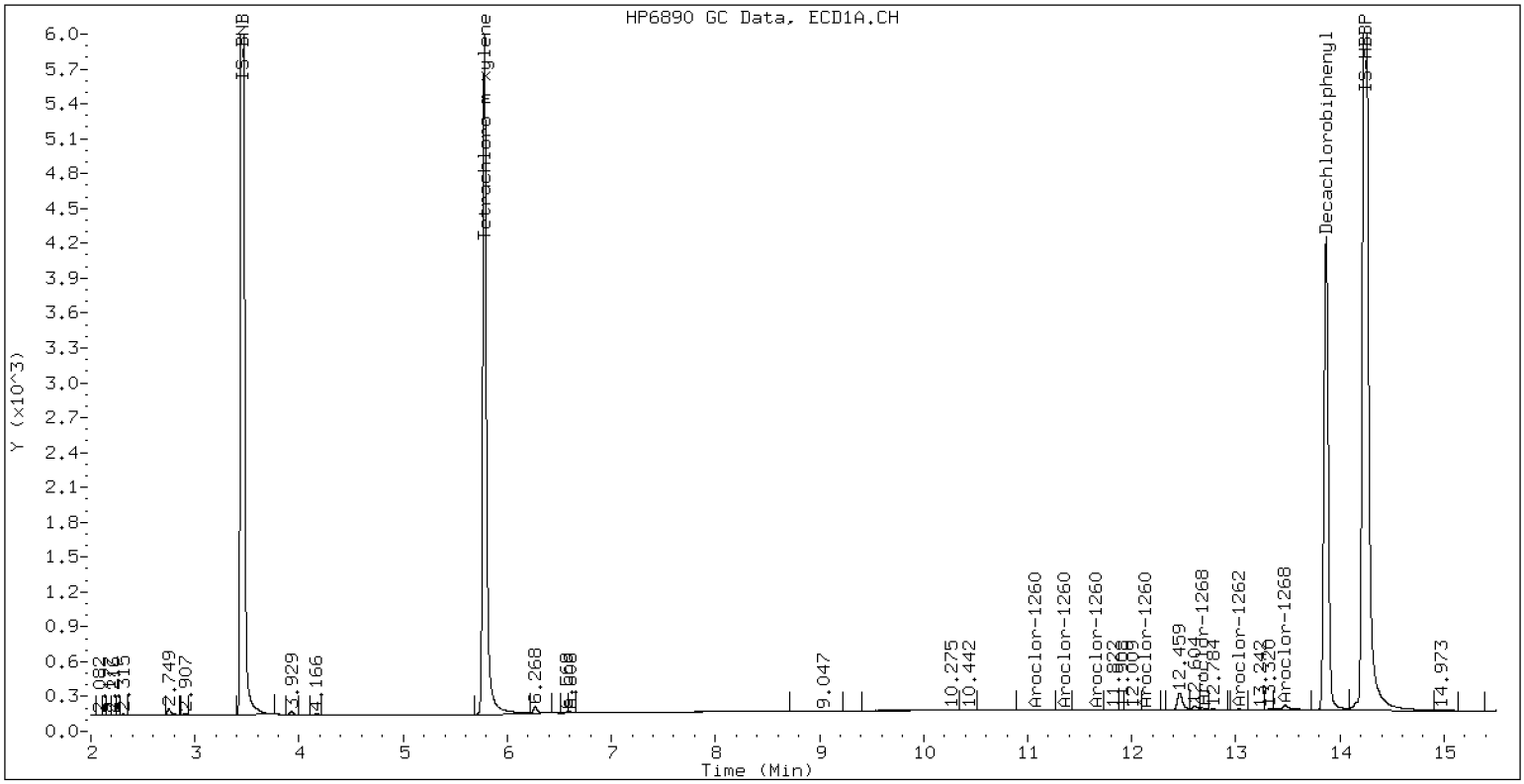
Total PCB Area Col2 (5.751 - 13.984) = 12580 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

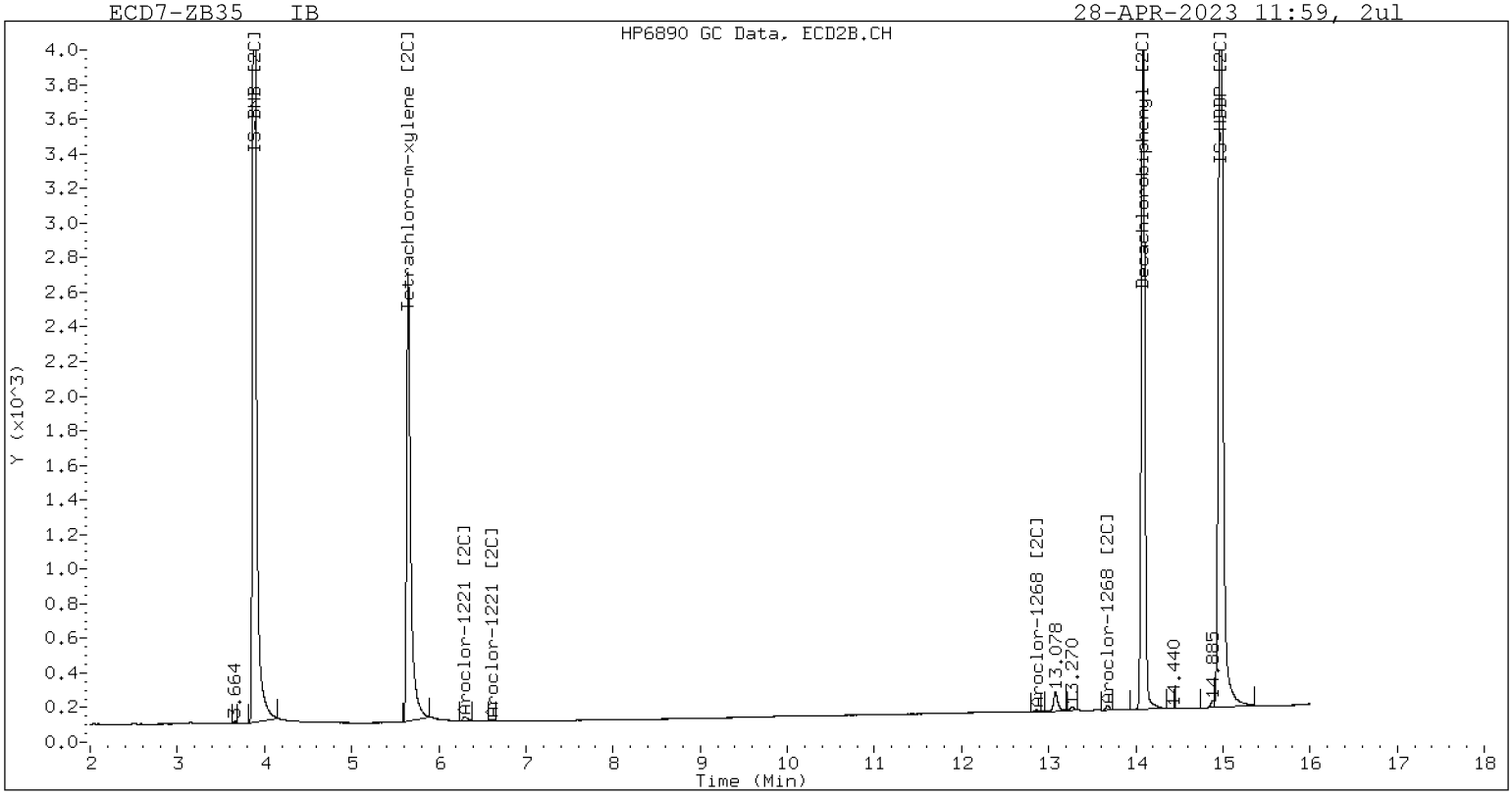
PCB Dual Column Chromatograms

ECD7-ZB5 IB 28-APR-2023 11:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 28-APR-2023 11:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282304ECD7.D
Data file 2: /230428.b/230428.b/04282304ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660
Client ID:
Injection Date: 28-APR-2023 12:20
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	335394	5.650	-0.001	197250	41.3	40.3	2.3	Tetrachloro-m-xylene
13.861	-0.001	321396	14.085	0.001	290355	39.8	41.7	4.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	556262	0.0
Hexabromobiphenyl	745660	745660	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	348488	0.0
Hexabromobiphenyl	429949	429949	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.238	0.002	56738	263.8	1	7.224	0.003	47286	250.6
Aroclor-1016	2	7.636	0.008	151698	266.0	2	7.857	0.013	97314	260.9
Aroclor-1016	3	7.769	0.006	92271	239.1	3	8.062	0.007	55698	238.1
Aroclor-1016	4	8.381	0.005	50905	252.7	4	8.286	0.005	39533	231.2
Total Col1Ave (4 peaks):					255.4	Total Col2Ave (4 peaks):				245.2 RPD = 4
Corrected Ave (3 peaks):					251.8	Corrected Ave (3 peaks):				239.9 RPD = 5
CalAmt %D:					2.2	CalAmt %D:				-1.9
Aroclor-1260	1	11.020	0.003	117093	278.1	1	11.626	0.002	81113	265.2
Aroclor-1260	2	11.337	0.003	118356	277.1	2	11.895	0.003	214849	267.7
Aroclor-1260	3	11.714	0.004	307002	277.0	3	12.408	0.001	47817	261.6
Aroclor-1260	4	12.121	0.005	146929	267.3	4	12.477	0.002	144581	264.3
Aroclor-1260	5	12.218	0.002	66178	262.4	NS	---			----
Total Col1Ave (5 peaks):					272.4	Total Col2Ave (4 peaks):				264.7 RPD = 3
Corrected Ave (4 peaks):					271.0	Corrected Ave (3 peaks):				263.7 RPD = 3
CalAmt %D:					9.0	CalAmt %D:				5.9

Total PCB Area Col1 (5.866 - 13.762) = 3329205 Col1 Total PCB = 0.5 ppm*

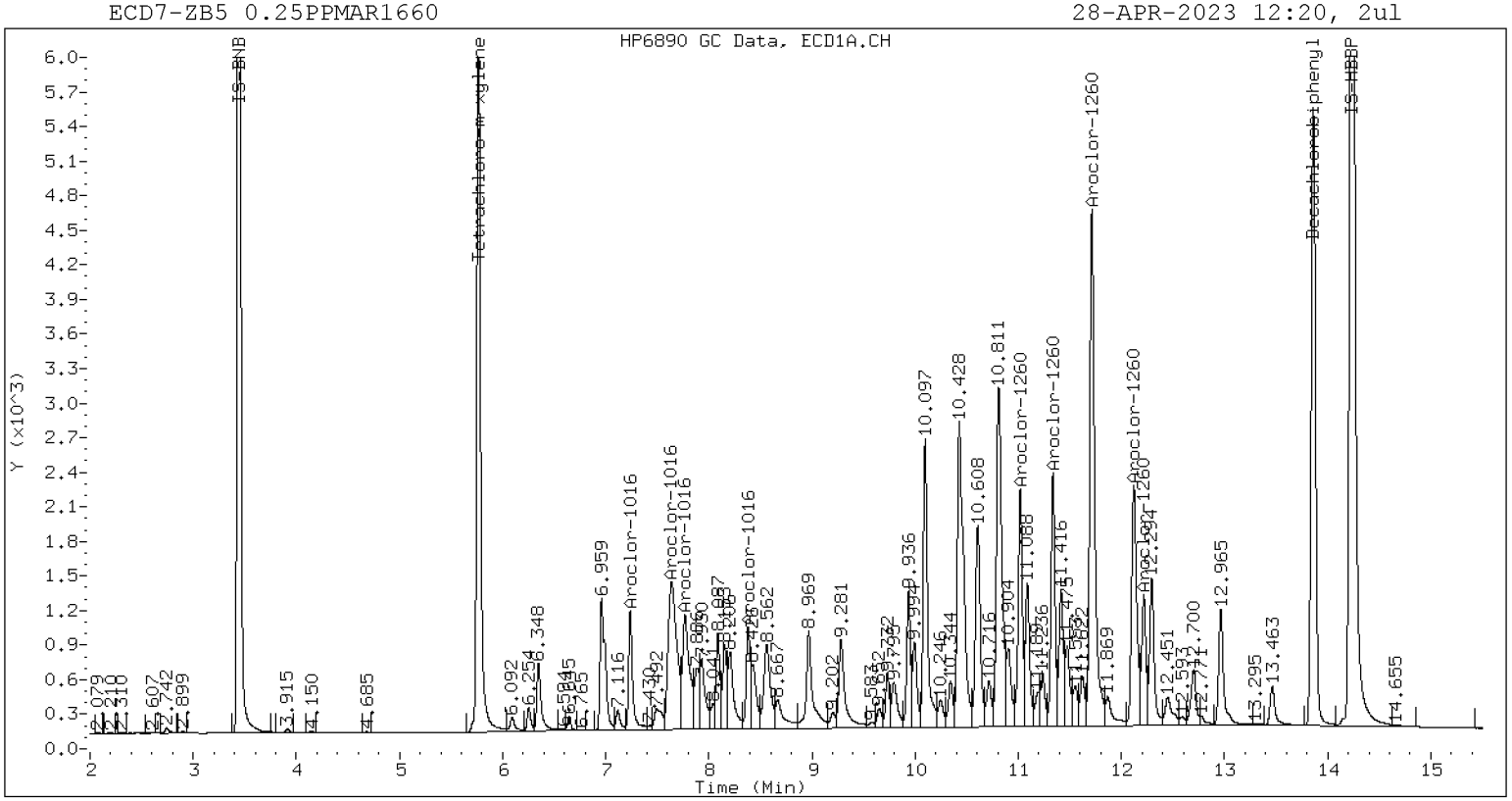
Total PCB Area Col2 (5.751 - 13.984) = 1991771 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

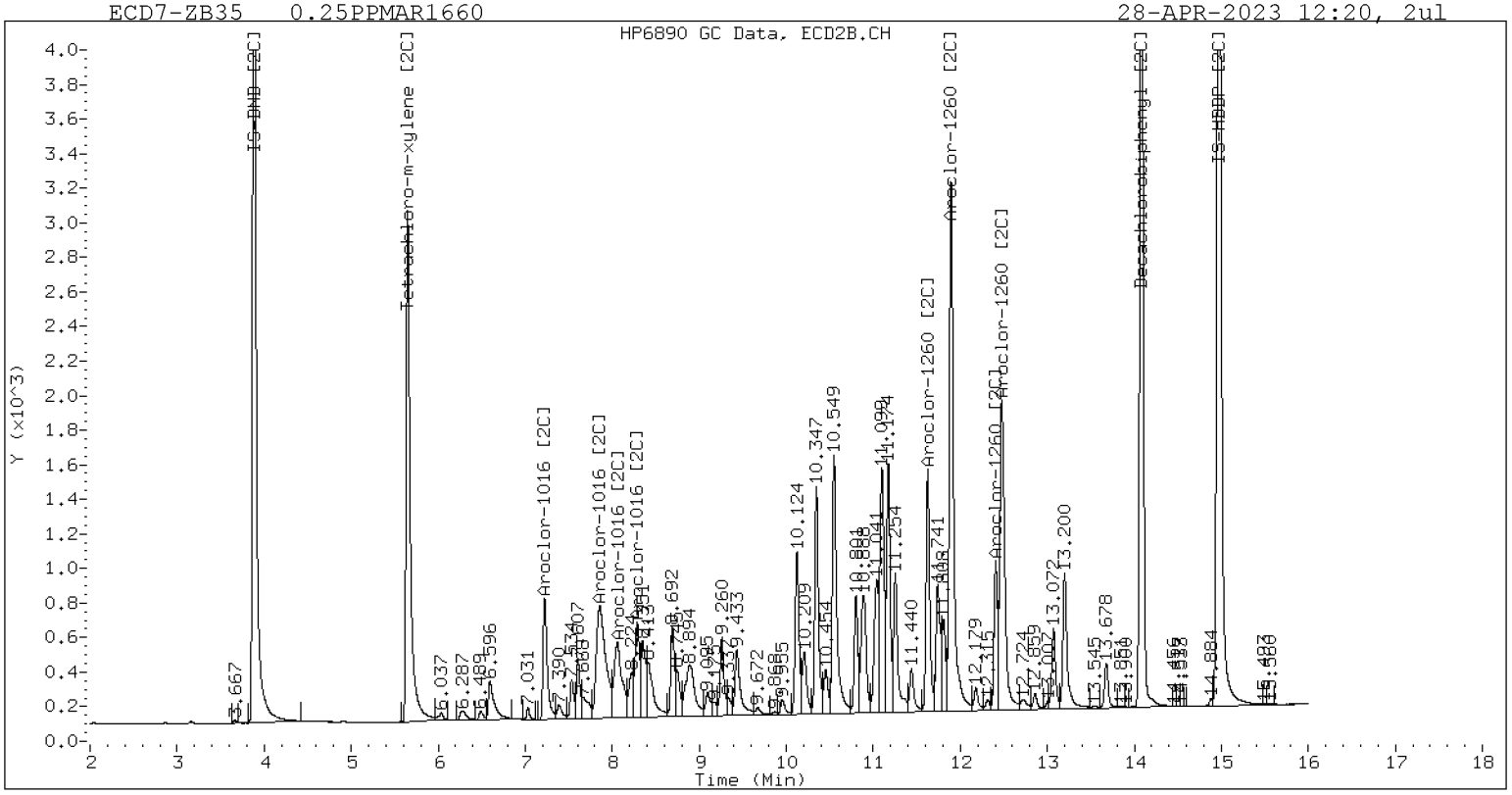
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660 28-APR-2023 12:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660 28-APR-2023 12:20, 2ul

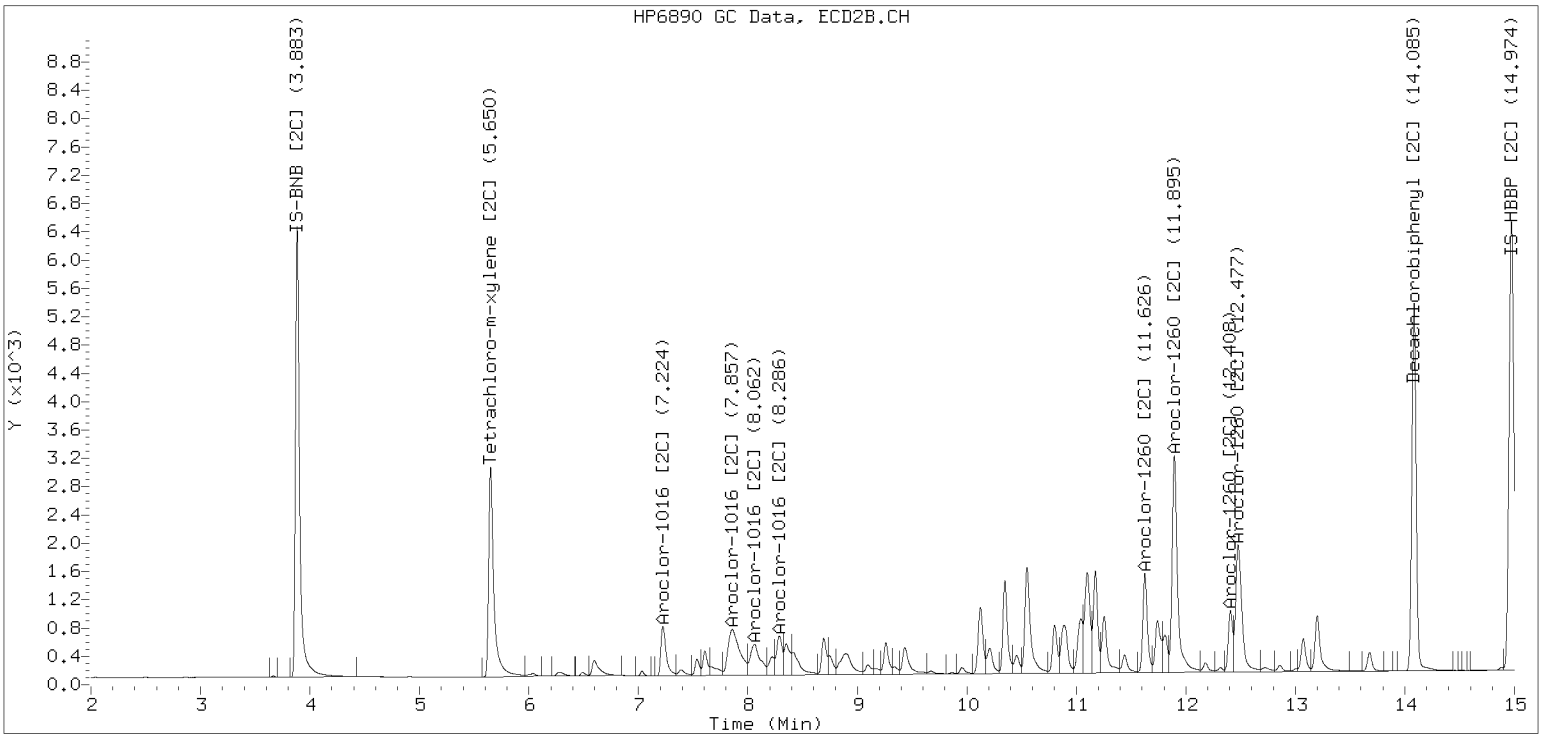


ZB-35 Manual Integration: YES

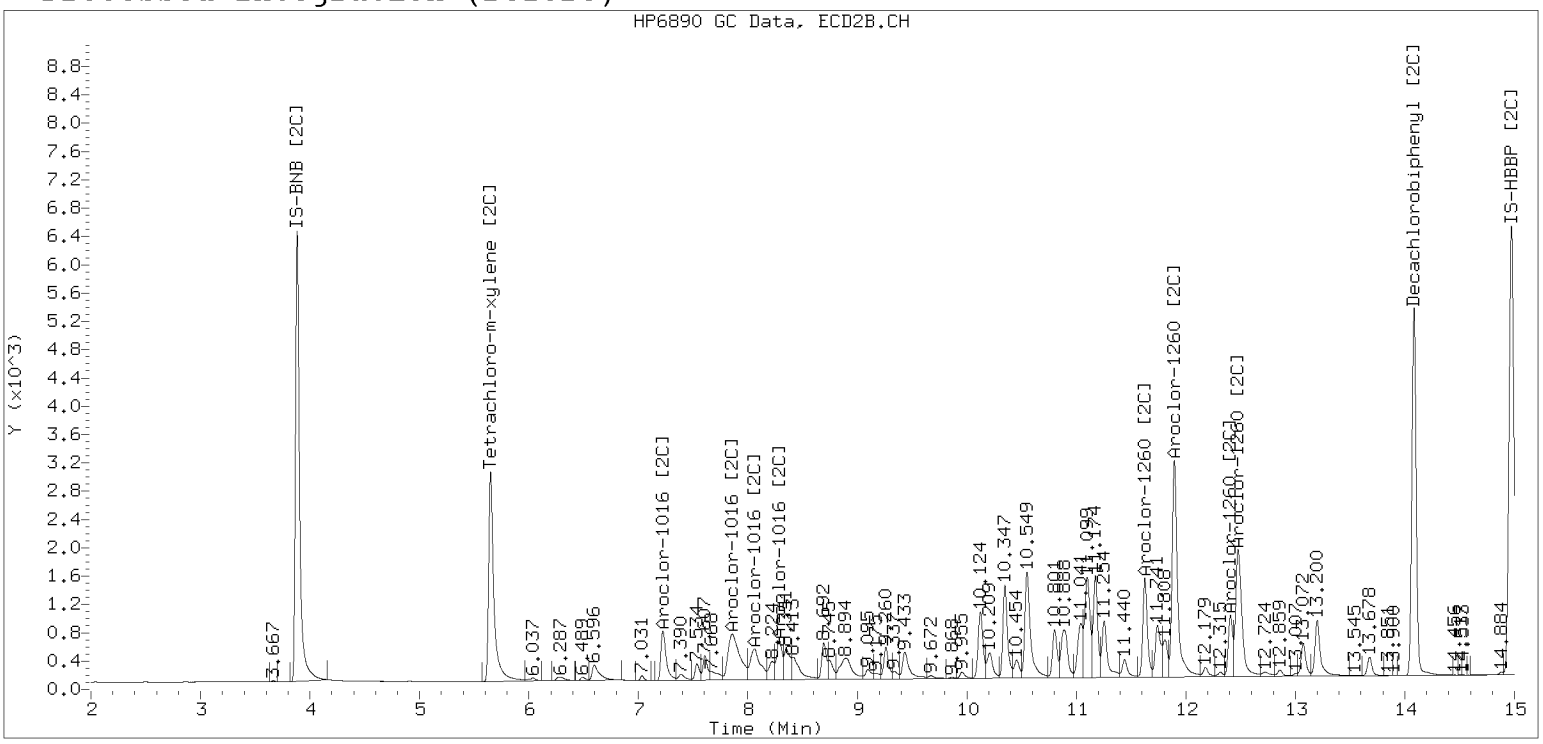
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282304ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282305ECD7.D
Data file 2: /230428.b/230428.b/04282305ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660
Client ID:
Injection Date: 28-APR-2023 12:41
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	25930	5.651	0.000	16129	3.1	3.2	3.4	Tetrachloro-m-xylene
13.862	0.000	31723	14.084	0.000	22575	3.4	3.0	12.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	567476	2.0
Hexabromobiphenyl	745660	851753	14.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	355050	1.9
Hexabromobiphenyl	429949	459088	6.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	3998	18.2	1	7.227	0.005	4207	21.9
Aroclor-1016	2	7.679	0.052	9690	16.7	2	7.887	0.043	6557	17.3
Aroclor-1016	3	7.764	0.001	9208	23.4	3	8.065	0.010	6322	26.5
Aroclor-1016	4	8.386	0.010	3897	19.0	4	8.294	0.013	4598	26.4
Total Col1Ave (4 peaks):					19.3	Total Col2Ave (4 peaks):				23.0 RPD = 18
Corrected Ave (3 peaks):					17.9	Corrected Ave (3 peaks):				21.8 RPD = 20
CalAmt %D:					-3.5	CalAmt %D:				15.1
Aroclor-1260	1	11.025	0.008	10283	21.4	1	11.630	0.006	6986	21.4
Aroclor-1260	2	11.342	0.008	10123	20.8	2	11.901	0.009	17529	20.5
Aroclor-1260	3	11.723	0.013	25859	20.4	3	12.412	0.005	3971	20.3
Aroclor-1260	4	12.126	0.010	13161	21.0	4	12.484	0.009	12335	21.1
Aroclor-1260	5	12.221	0.005	6180	21.5	NS	---			----
Total Col1Ave (5 peaks):					21.0	Total Col2Ave (4 peaks):				20.8 RPD = 1
Corrected Ave (4 peaks):					20.9	Corrected Ave (3 peaks):				20.6 RPD = 1
CalAmt %D:					5.0	CalAmt %D:				4.1

Total PCB Area Col1 (5.866 - 13.762) = 306607 Col1 Total PCB = 0.0 ppm*

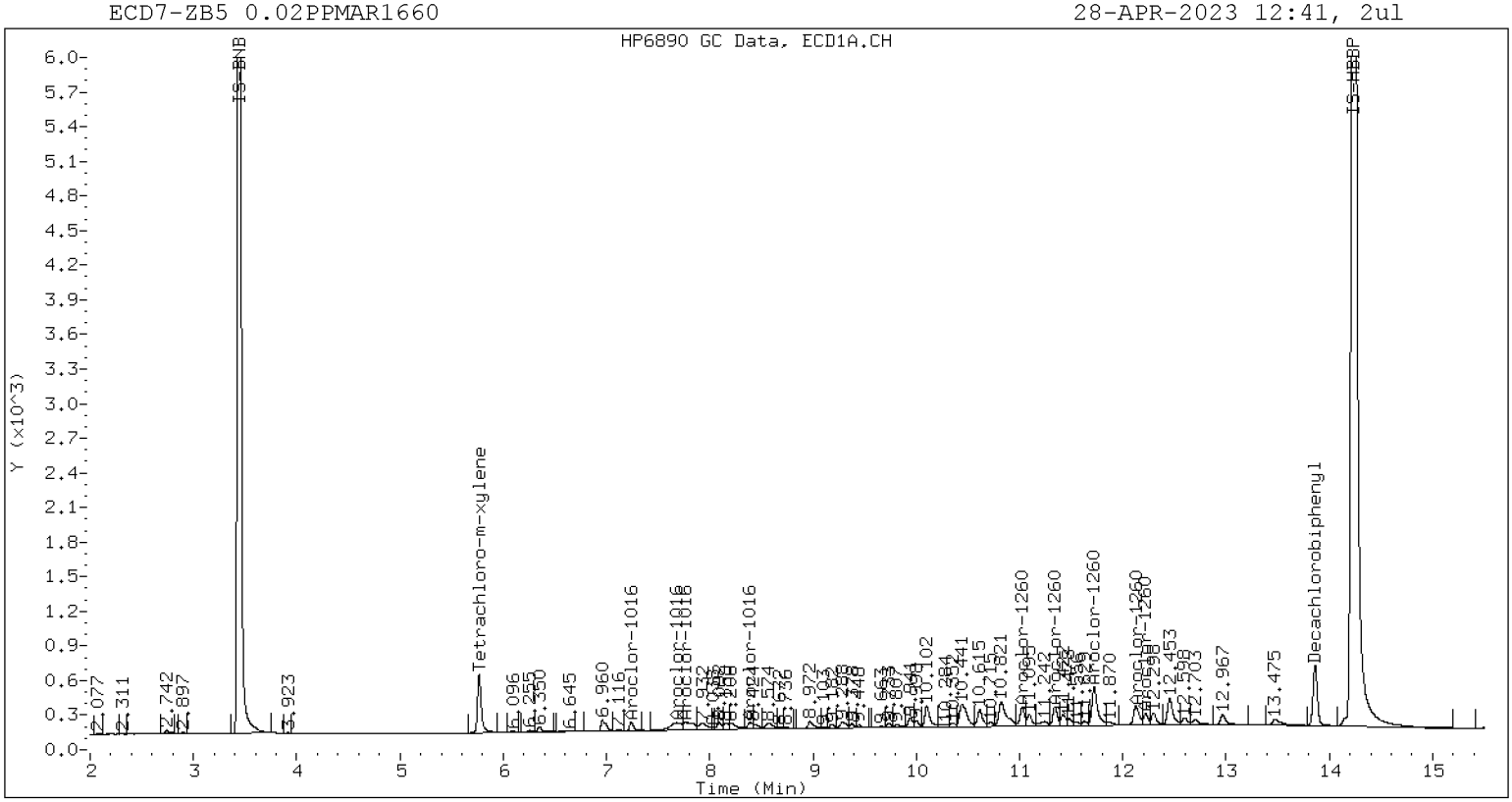
Total PCB Area Col2 (5.751 - 13.984) = 173055 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

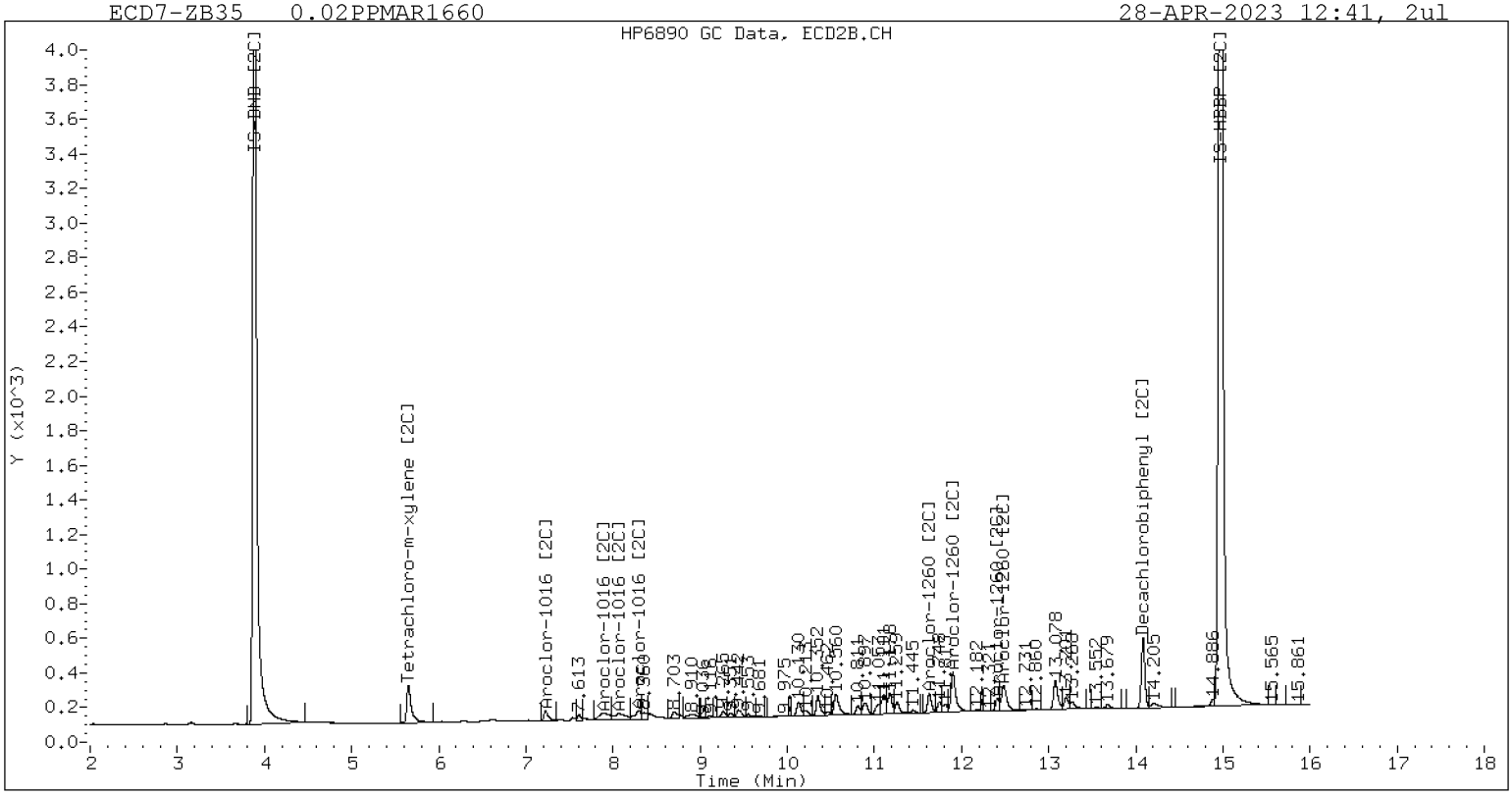
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPMAR1660 28-APR-2023 12:41, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 0.02PPMAR1660 28-APR-2023 12:41, 2ul

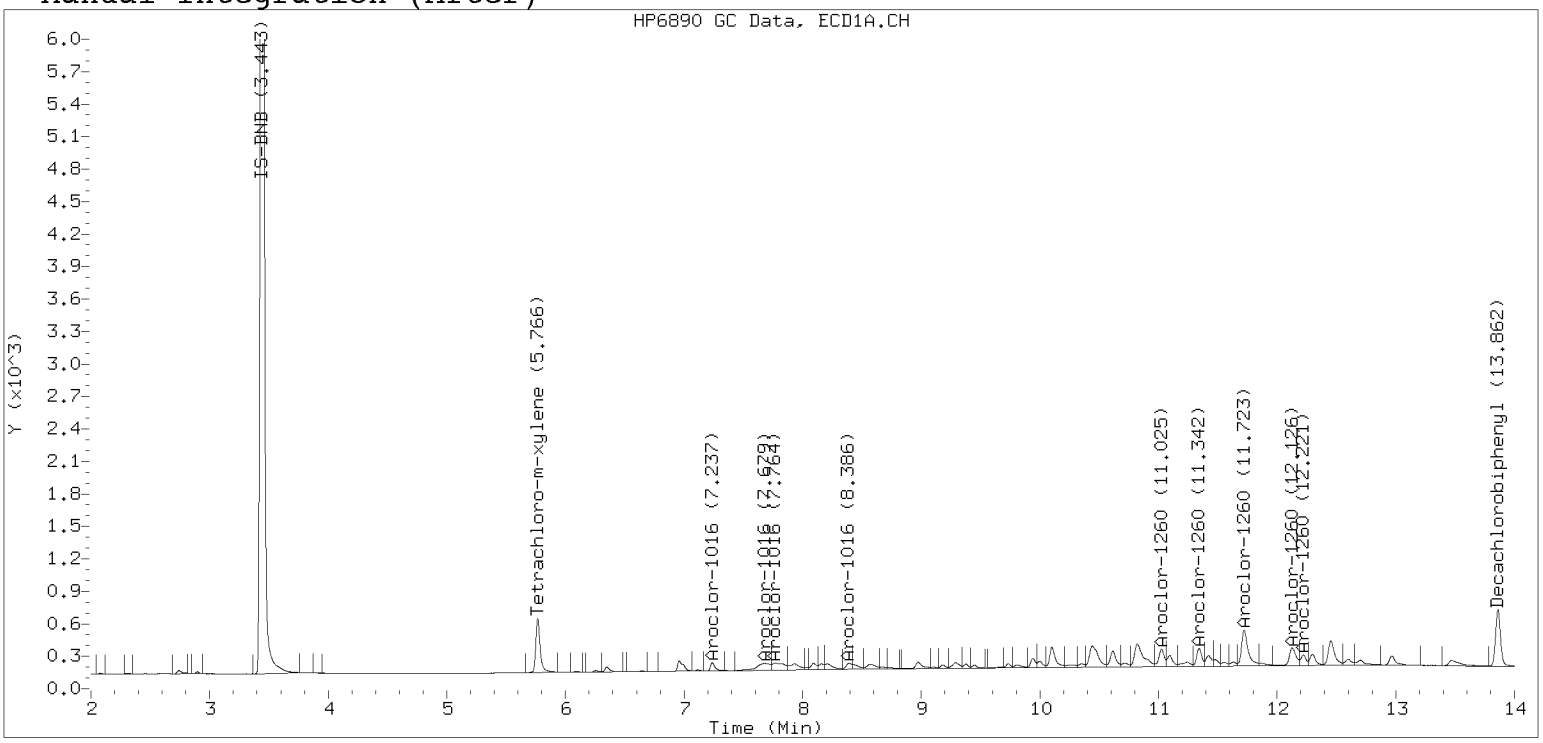


ZB-35 Manual Integration: YES

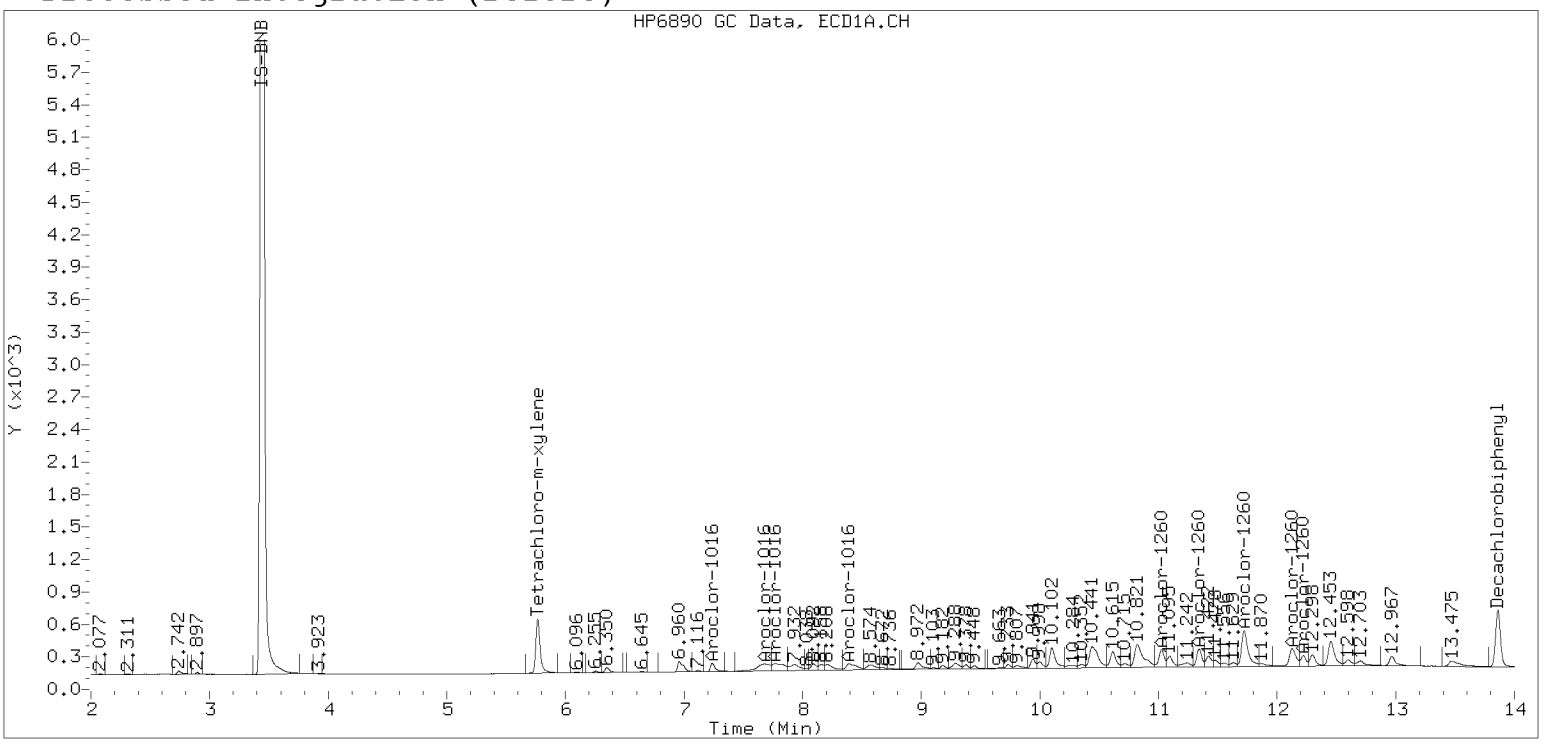
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282305ECD7.D Injection Date: 28-APR-2023 12:41

Manual Integration (After)



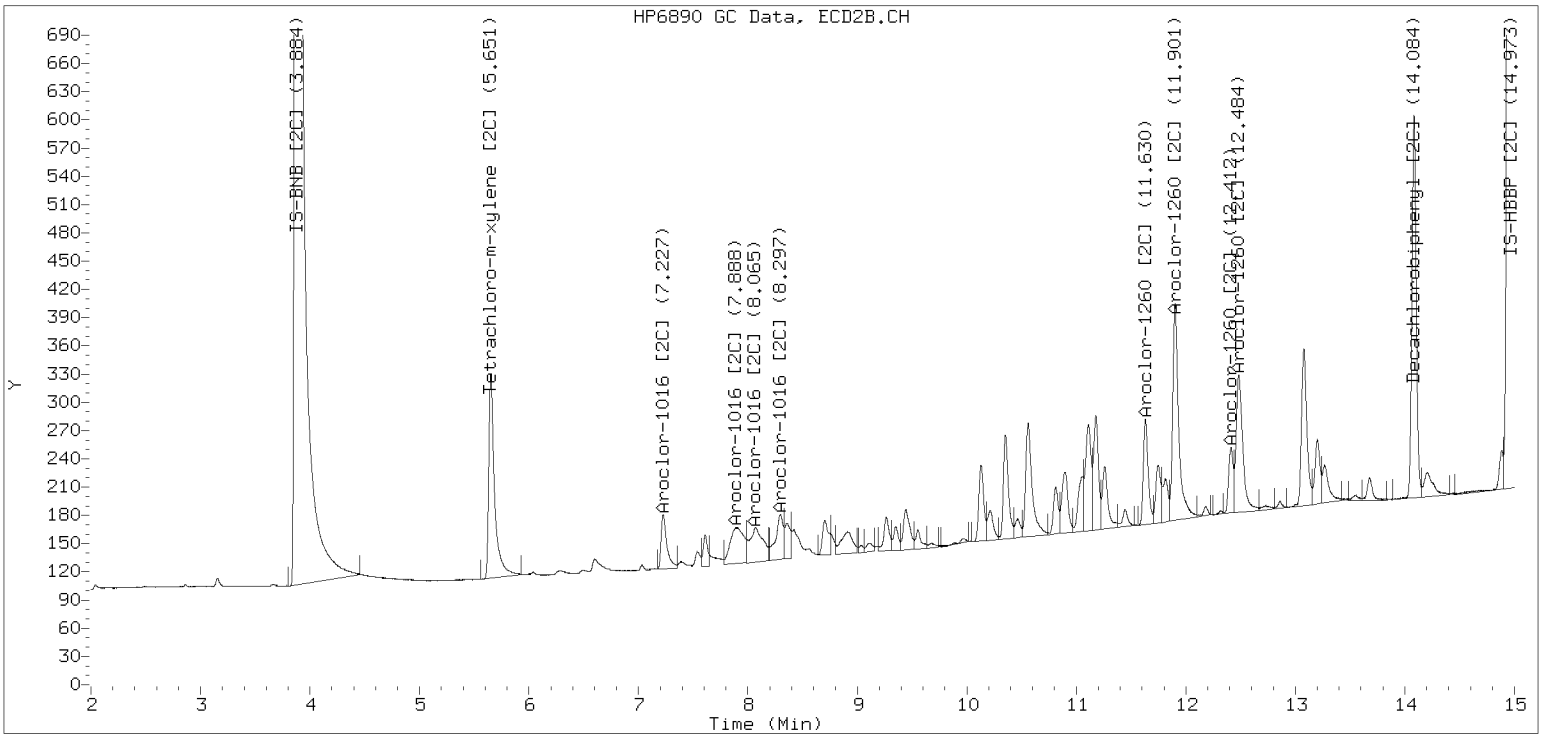
Processed Integration (Before)



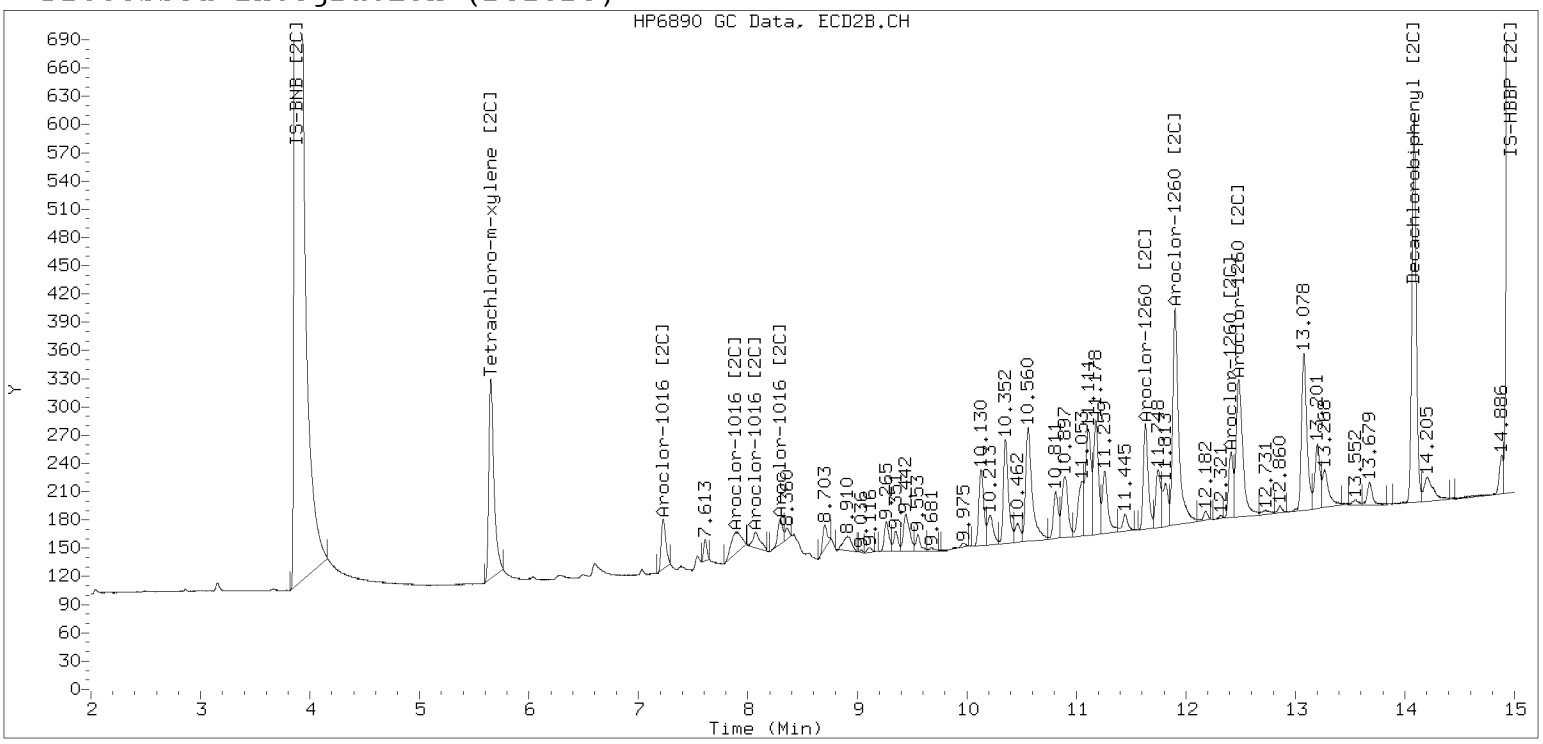
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282305ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282306ECD7.D
Data file 2: /230428.b/230428.b/04282306ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660
Client ID:
Injection Date: 28-APR-2023 13:02
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.001	70435	5.651	-0.000	43764	8.5	8.8	2.9	Tetrachloro-m-xylene
13.864	0.002	86295	14.084	0.001	63377	8.8	8.3	5.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	565297	1.6
Hexabromobiphenyl	745660	908917	21.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	355024	1.9
Hexabromobiphenyl	429949	472035	9.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.238	0.002	12213	55.9	1	7.227	0.006	10519	54.7
Aroclor-1016	2	7.665	0.037	27006	46.6	2	7.886	0.041	20223	53.2
Aroclor-1016	3	7.771	0.008	22913	58.4	3	8.068	0.013	12890	54.1
Aroclor-1016	4	8.384	0.008	10385	50.7	4	8.291	0.010	9644	55.4
Total Col1Ave (4 peaks):					52.9	Total Col2Ave (4 peaks):				54.3 RPD = 3
Corrected Ave (3 peaks):					51.1	Corrected Ave (3 peaks):				54.0 RPD = 6
CalAmt %D:					5.8	CalAmt %D:				8.7
Aroclor-1260	1	11.023	0.005	26364	51.4	1	11.629	0.005	18068	53.8
Aroclor-1260	2	11.340	0.006	26275	50.5	2	11.899	0.007	47062	53.4
Aroclor-1260	3	11.719	0.009	68465	50.7	3	12.411	0.004	10421	51.9
Aroclor-1260	4	12.124	0.008	32256	48.2	4	12.482	0.007	32234	53.7
Aroclor-1260	5	12.220	0.004	15457	50.3	NS	---			----
Total Col1Ave (5 peaks):					50.2	Total Col2Ave (4 peaks):				53.2 RPD = 6
Corrected Ave (4 peaks):					49.9	Corrected Ave (3 peaks):				53.0 RPD = 6
CalAmt %D:					0.4	CalAmt %D:				6.4

Total PCB Area Col1 (5.866 - 13.762) = 736093 Col1 Total PCB = 0.1 ppm*

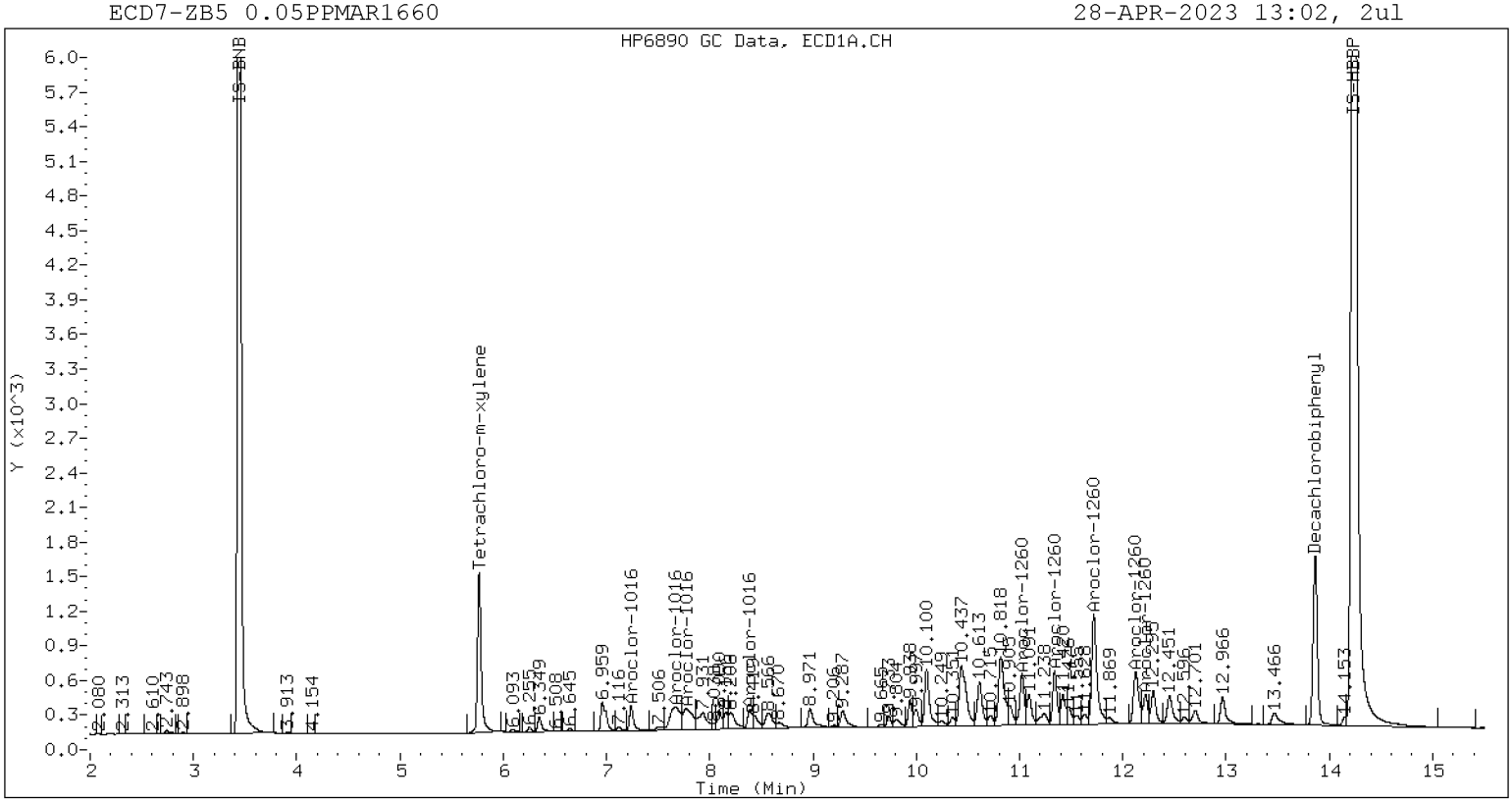
Total PCB Area Col2 (5.751 - 13.984) = 450761 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

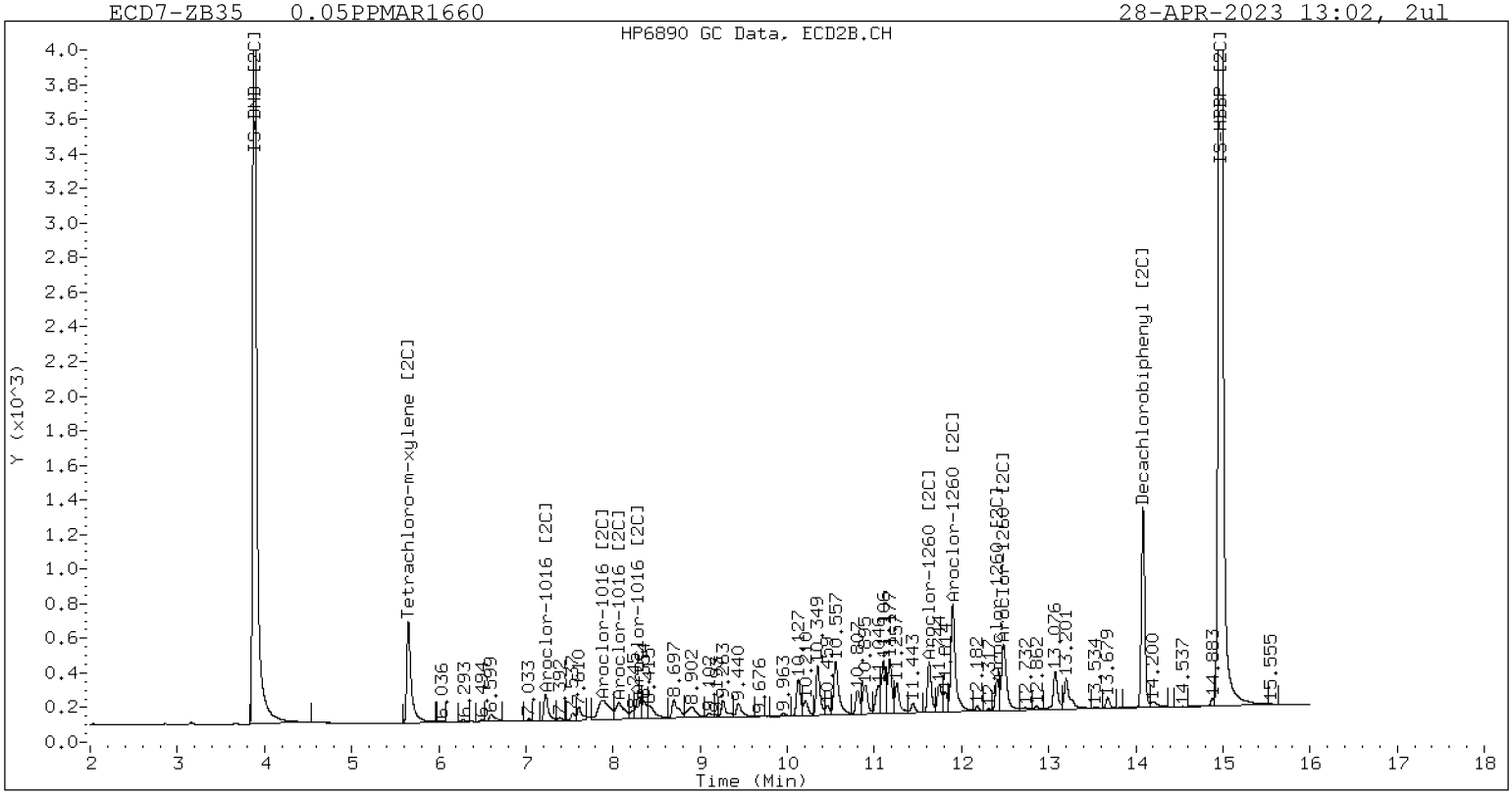
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660 28-APR-2023 13:02, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 0.05PPMAR1660 28-APR-2023 13:02, 2ul

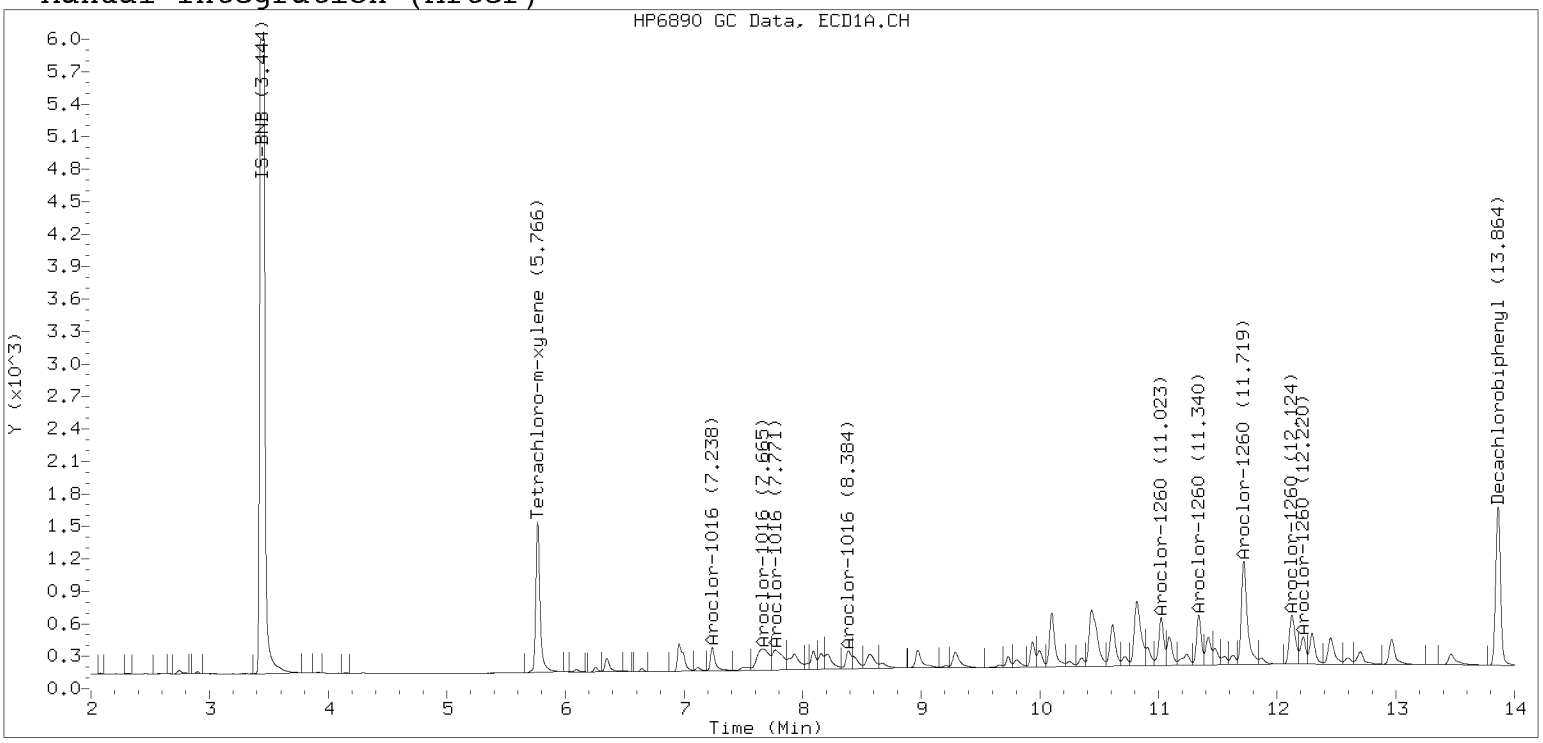


ZB-35 Manual Integration: YES

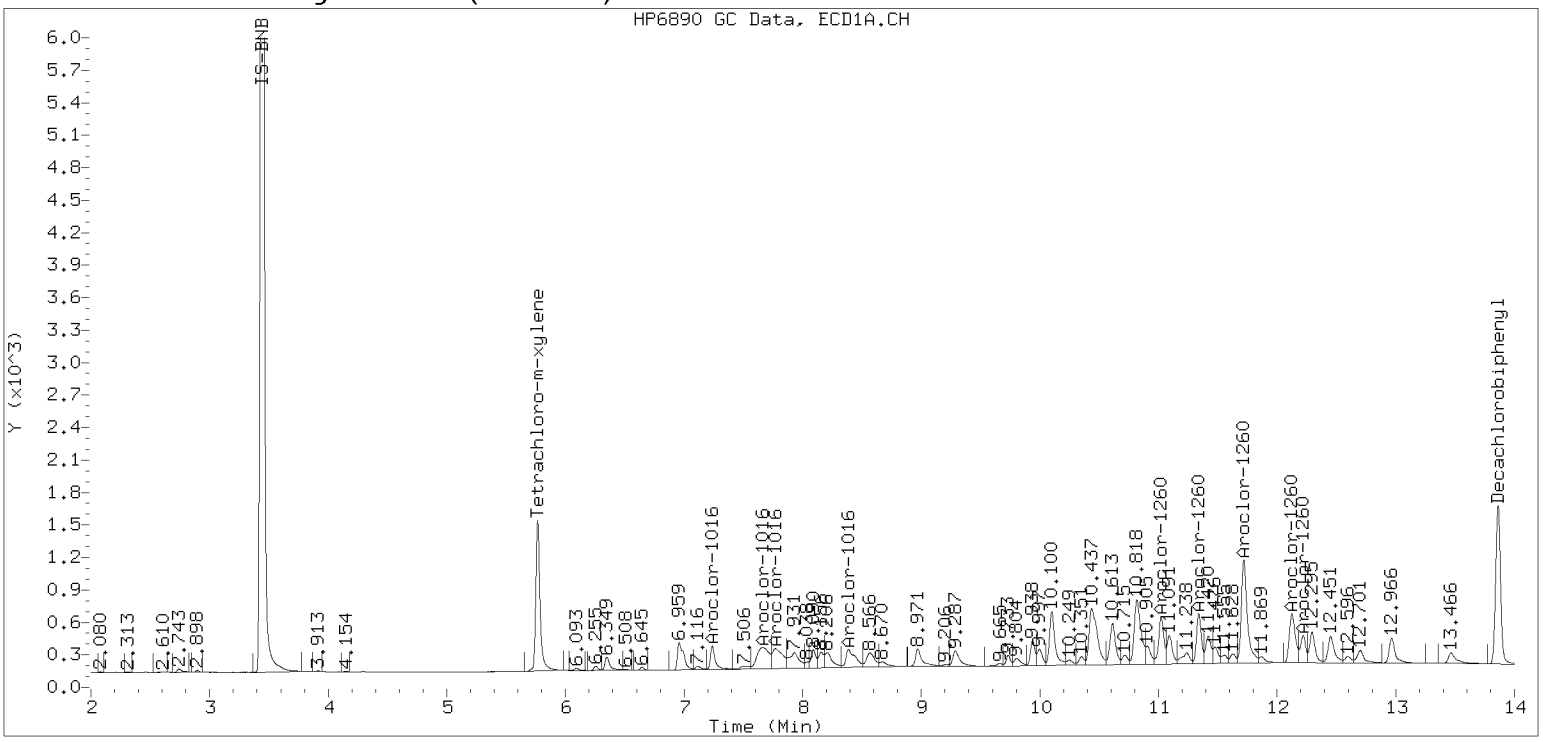
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282306ECD7.D Injection Date: 28-APR-2023 13:02

Manual Integration (After)



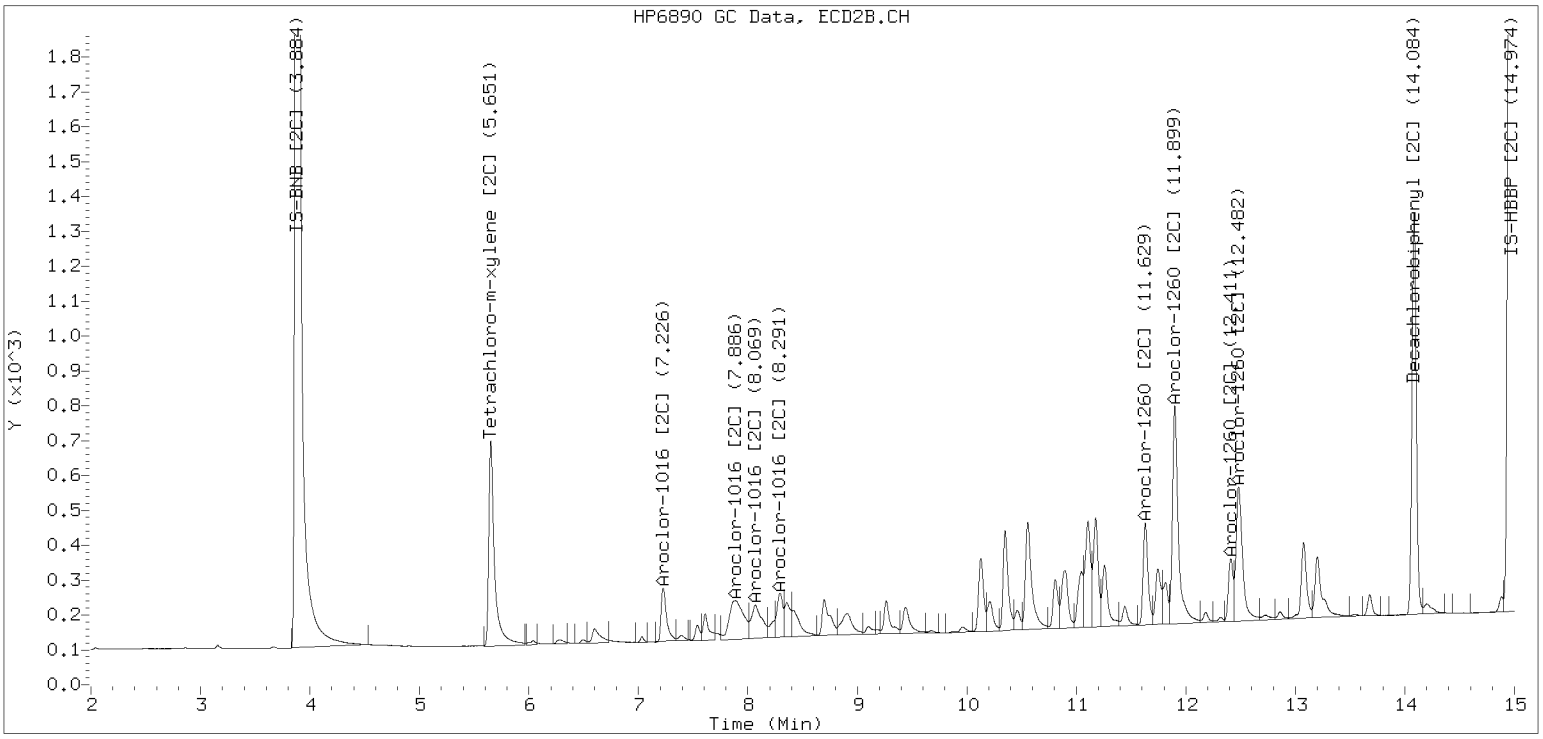
Processed Integration (Before)



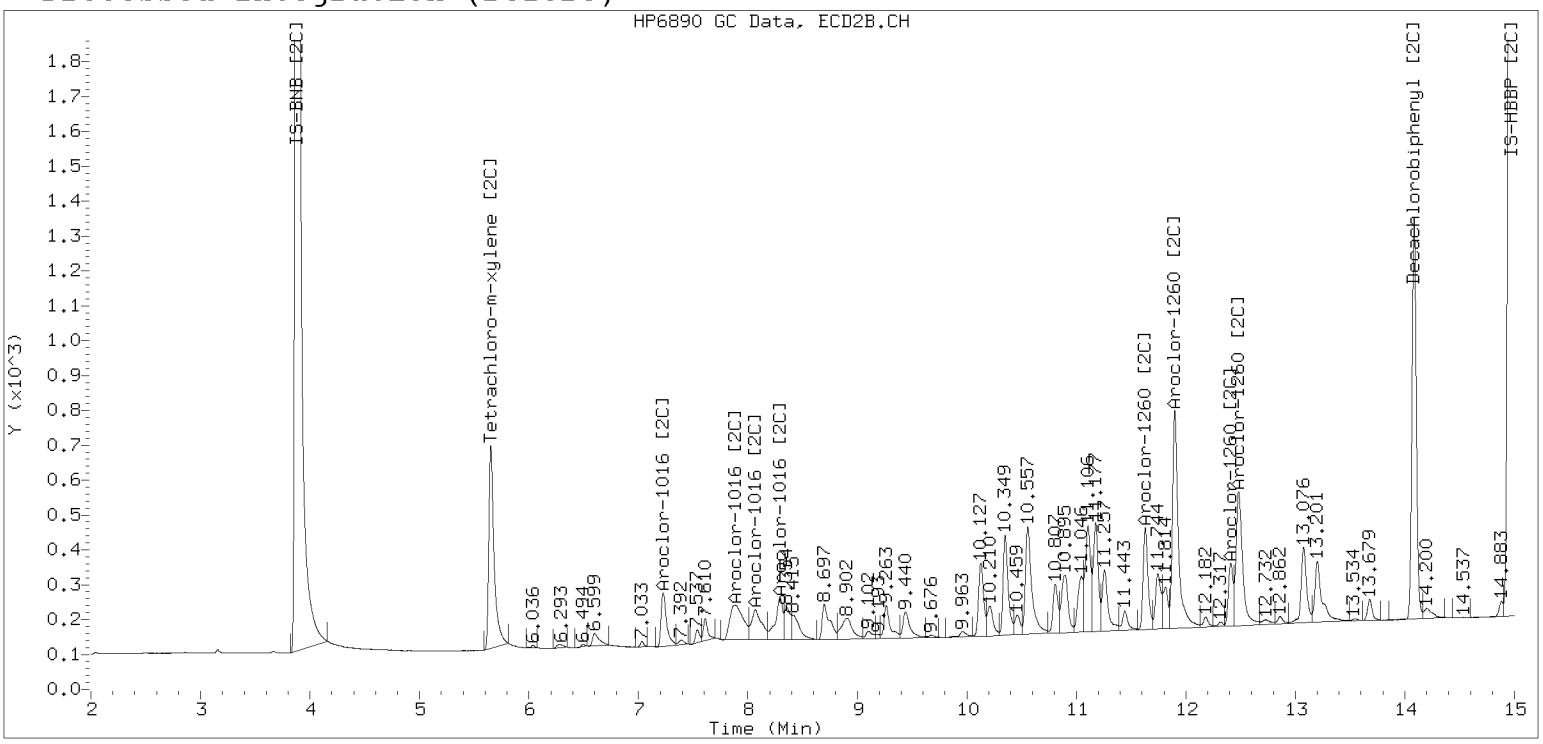
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282306ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282307ECD7.D
Data file 2: /230428.b/230428.b/04282307ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660
Client ID:
Injection Date: 28-APR-2023 13:23
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	1267882	5.649	-0.002	750935	149.4	149.9	0.4	Tetrachloro-m-xylene
13.863	0.001	1438551	14.084	0.000	1240651	140.6	157.2	11.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	580828	4.4
Hexabromobiphenyl	745660	943642	26.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	356762	2.4
Hexabromobiphenyl	429949	487259	13.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.235	-0.000	193049	859.5	1	7.222	0.001	165989	859.1
Aroclor-1016	2	7.626	-0.002	649563	1090.8	2	7.834	-0.010	386907	1013.1
Aroclor-1016	3	7.760	-0.003	311742	773.5	3	8.031	-0.024	190988	797.3
Aroclor-1016	4	8.374	-0.002	201699	958.9	4	8.279	-0.002	134004	765.4
Total Col1Ave (4 peaks):					920.7	Total Col2Ave (4 peaks):				858.7 RPD = 7
Corrected Ave (3 peaks):					864.0	Corrected Ave (3 peaks):				807.3 RPD = 7
CalAmt %D:					-7.9	CalAmt %D:				-14.1
Aroclor-1260	1	11.015	-0.002	481928	904.5	1	11.623	-0.001	309672	893.3
Aroclor-1260	2	11.333	-0.001	505772	935.8	2	11.892	-0.000	832702	915.4
Aroclor-1260	3	11.708	-0.001	1302265	928.5	3	12.405	-0.002	204356	986.5
Aroclor-1260	4	12.113	-0.003	668976	961.9	4	12.474	-0.001	558330	900.7
Aroclor-1260	5	12.215	-0.001	292727	917.3	NS	---			----
Total Col1Ave (5 peaks):					929.6	Total Col2Ave (4 peaks):				924.0 RPD = 1
Corrected Ave (4 peaks):					921.5	Corrected Ave (3 peaks):				903.1 RPD = 2
CalAmt %D:					-7.0	CalAmt %D:				-7.6

Total PCB Area Col1 (5.866 - 13.762) = 13445417 Col1 Total PCB = 1.9 ppm*

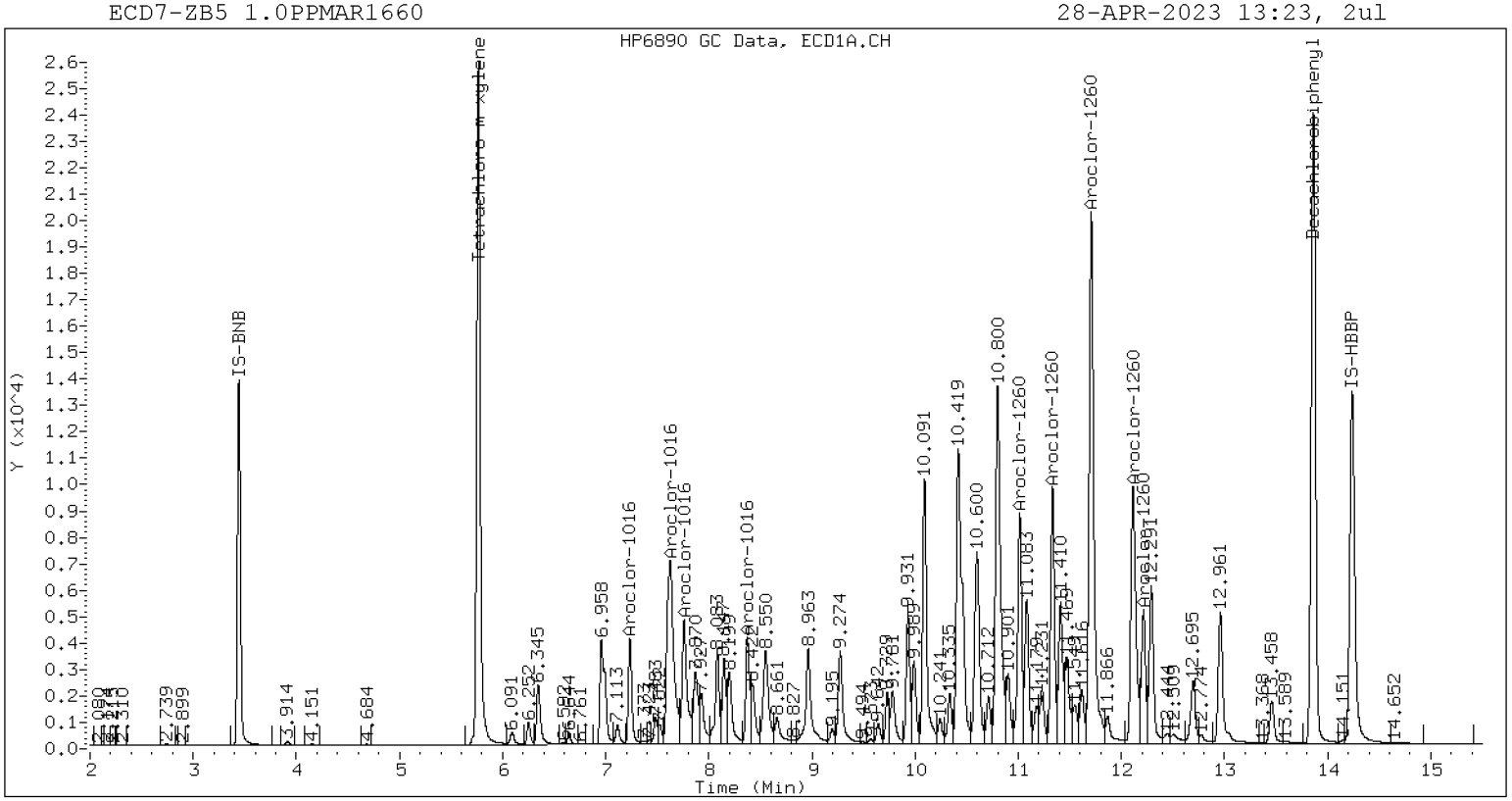
Total PCB Area Col2 (5.751 - 13.984) = 7592155 Col2 Total PCB = 1.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

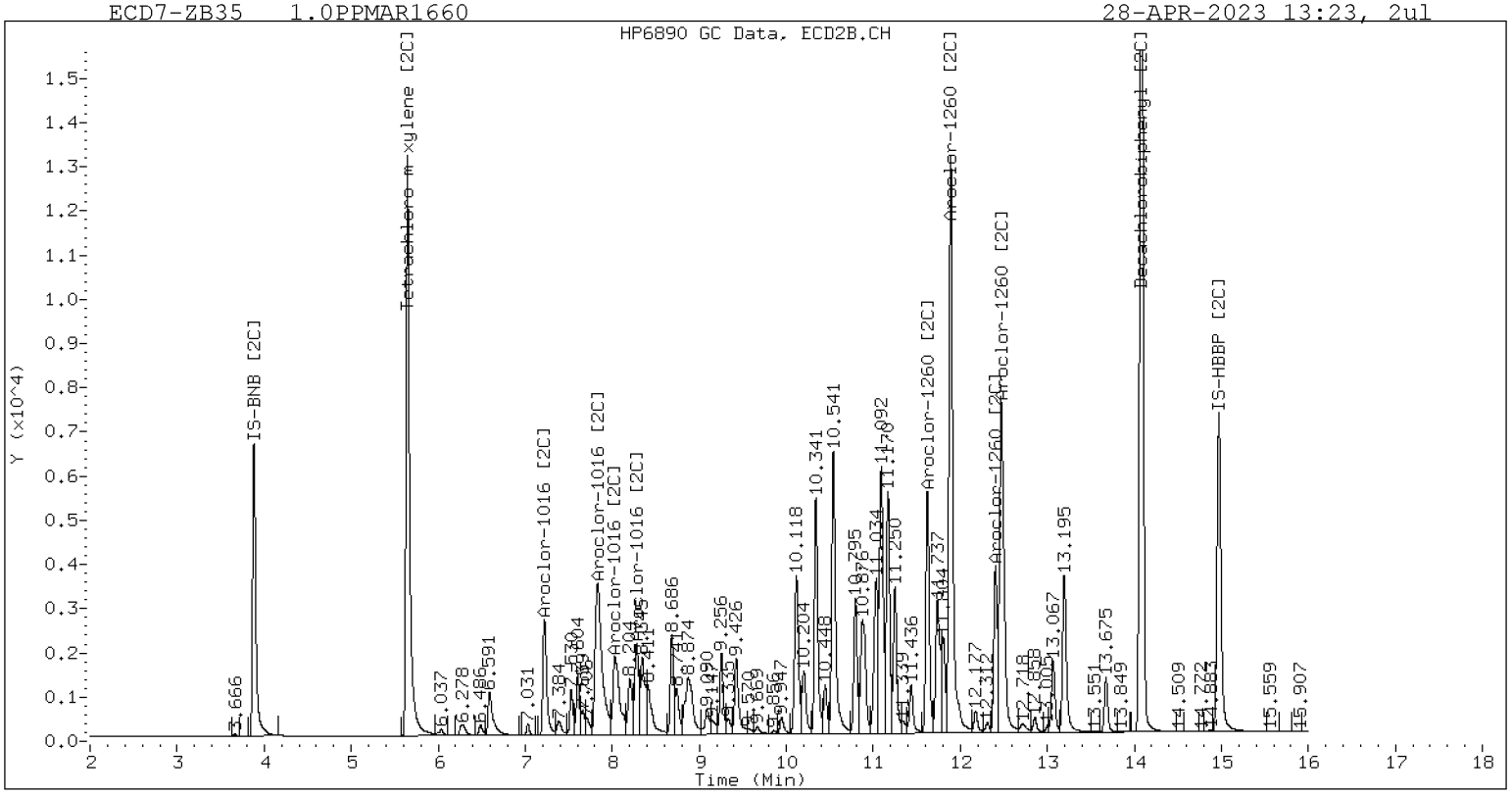
PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660 28-APR-2023 13:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660 28-APR-2023 13:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282308ECD7.D
Data file 2: /230428.b/230428.b/04282308ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 28-APR-2023 13:43
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	134919	5.650	-0.000	78249	16.1	15.7	2.7	Tetrachloro-m-xylene
13.863	0.001	175853	14.084	0.001	126789	16.4	15.9	3.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	573437	3.1
Hexabromobiphenyl	745660	986934	32.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	355634	2.1
Hexabromobiphenyl	429949	491821	14.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.001	24440	110.2	1	7.225	0.004	19505	101.3
Aroclor-1016	2	7.647	0.019	57071	97.1	2	7.872	0.027	37166	97.6
Aroclor-1016	3	7.769	0.007	41746	104.9	3	8.064	0.010	23376	97.9
Aroclor-1016	4	8.384	0.008	21846	105.2	4	8.290	0.010	18078	103.6
Total Col1Ave (4 peaks):					104.4	Total Col2Ave (4 peaks):				100.1 RPD = 4
Corrected Ave (3 peaks):					102.4	Corrected Ave (3 peaks):				98.9 RPD = 3
CalAmt %D:					4.4	CalAmt %D:				0.1
Aroclor-1260	1	11.021	0.004	53846	96.6	1	11.627	0.003	34201	97.7
Aroclor-1260	2	11.338	0.004	55078	97.4	2	11.897	0.005	90569	98.6
Aroclor-1260	3	11.717	0.007	145430	99.1	3	12.408	0.002	19492	93.2
Aroclor-1260	4	12.123	0.008	71854	98.8	4	12.480	0.005	60947	97.4
Aroclor-1260	5	12.220	0.004	33762	101.2	NS	---			----
Total Col1Ave (5 peaks):					98.6	Total Col2Ave (4 peaks):				96.8 RPD = 2
Corrected Ave (4 peaks):					98.0	Corrected Ave (3 peaks):				96.1 RPD = 2
CalAmt %D:					-1.4	CalAmt %D:				-3.2

Total PCB Area Col1 (5.866 - 13.762) = 1625145 Col1 Total PCB = 0.2 ppm*

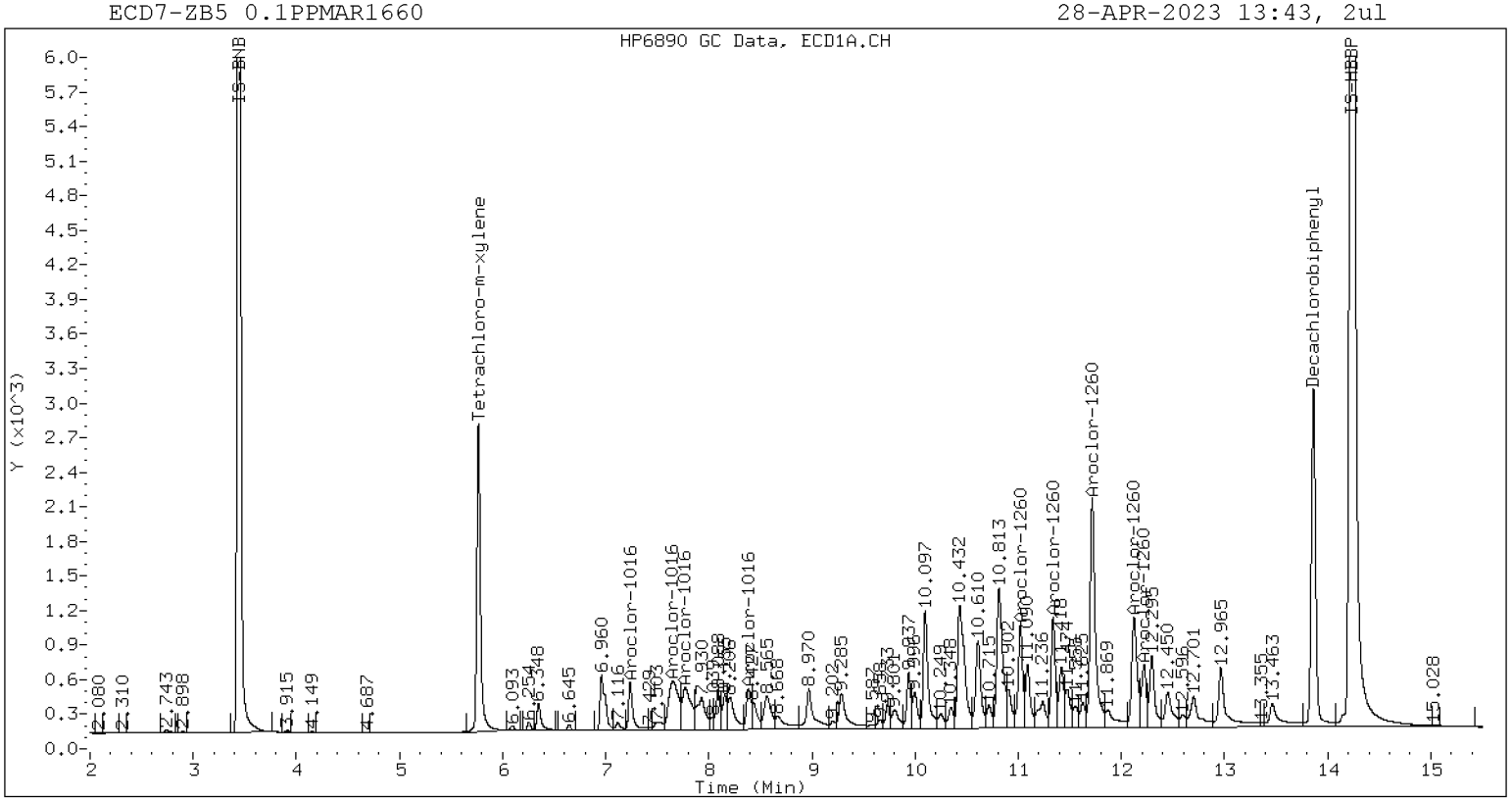
Total PCB Area Col2 (5.751 - 13.984) = 833910 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

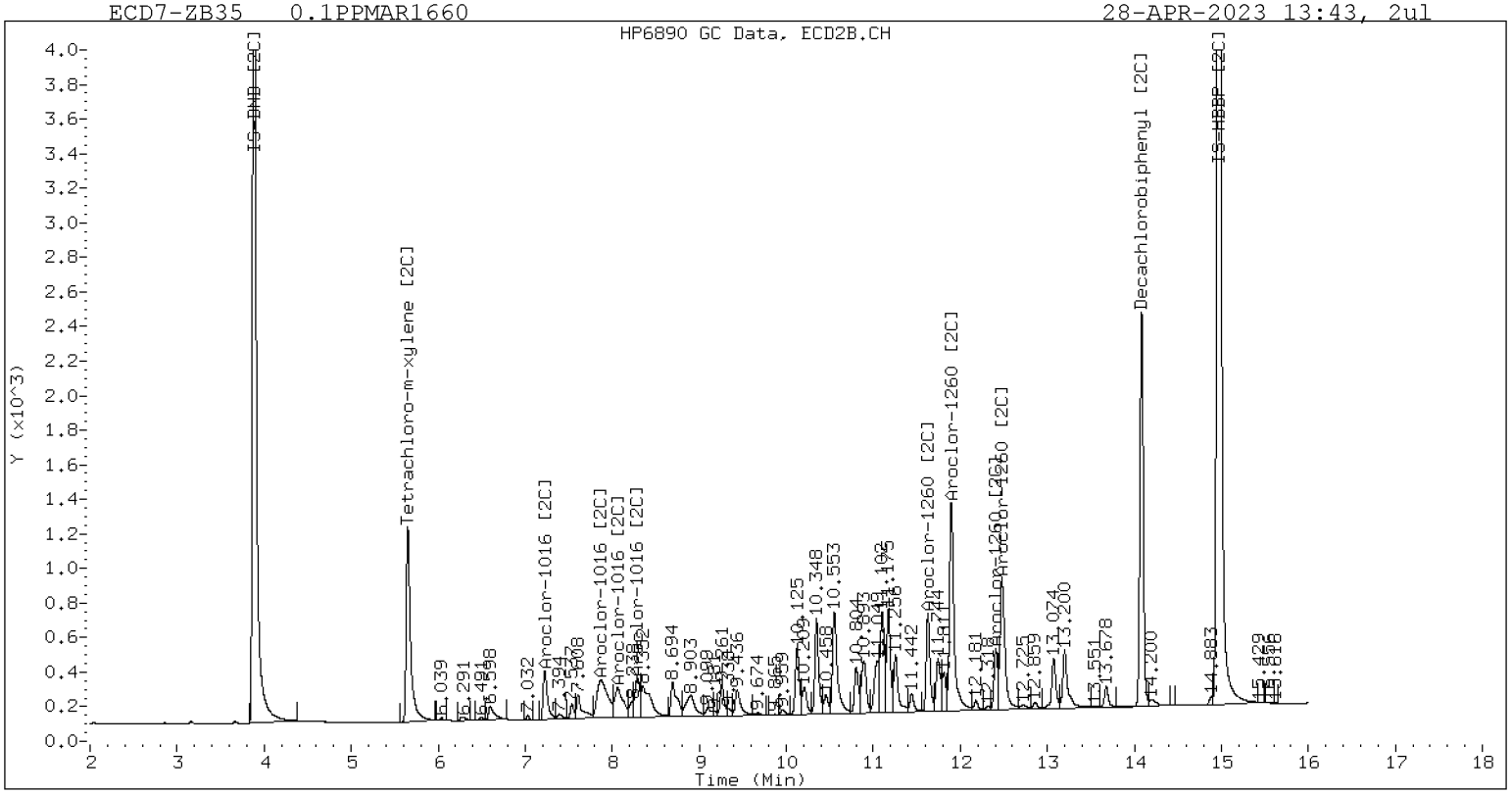
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 28-APR-2023 13:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 28-APR-2023 13:43, 2ul

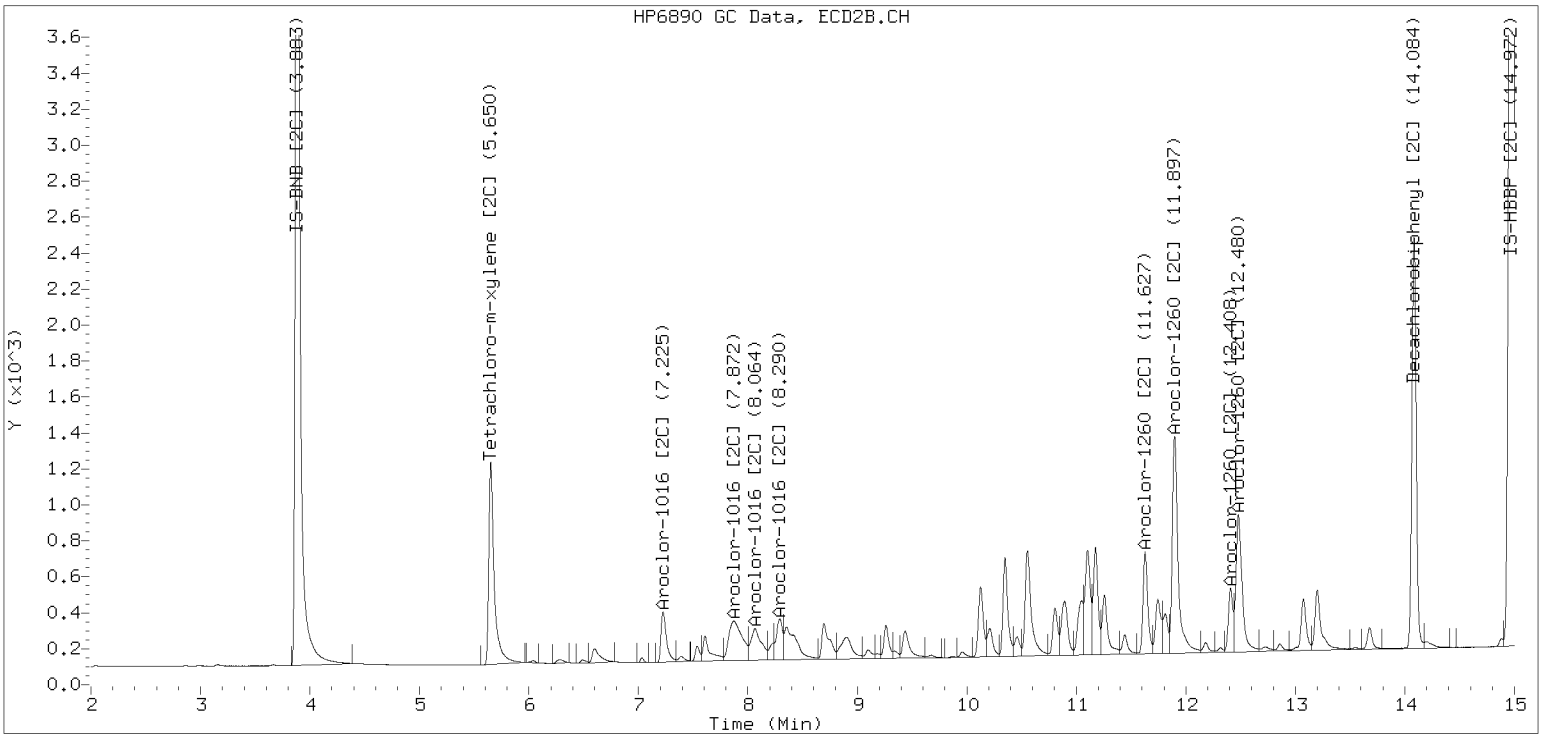


ZB-35 Manual Integration: YES

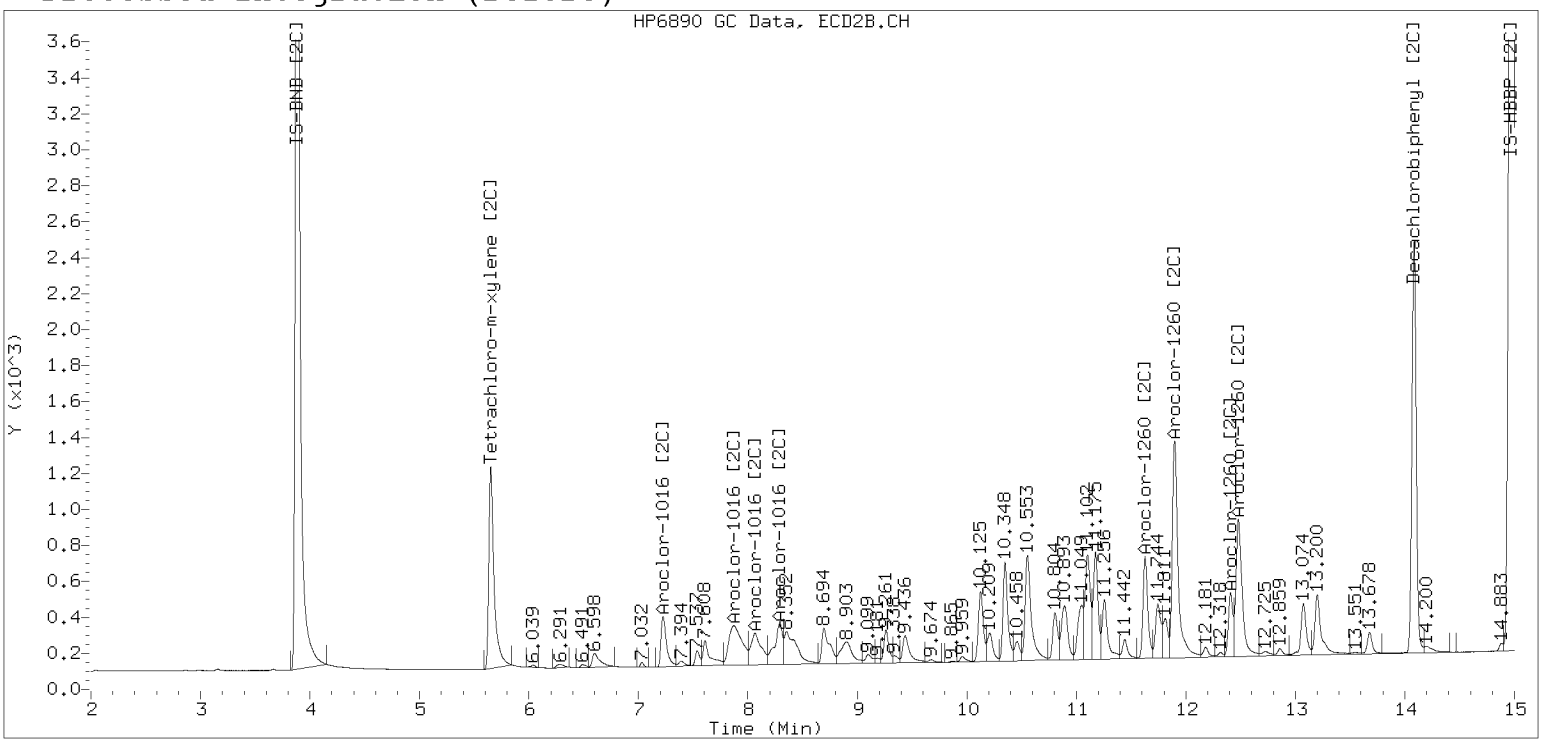
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282308ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282309ECD7.D
Data file 2: /230428.b/230428.b/04282309ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 28-APR-2023 14:04
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	-0.000	662131	5.650	-0.001	385316	78.8	77.3	1.9	Tetrachloro-m-xylene
13.862	-0.000	801241	14.083	-0.001	644223	74.5	79.6	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	574692	3.3
Hexabromobiphenyl	745660	992303	33.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	354825	1.8
Hexabromobiphenyl	429949	500074	16.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.235	0.000	106092	477.4	1	7.221	0.000	90096	468.9
Aroclor-1016	2	7.628	0.000	326907	554.8	2	7.844	0.000	197556	520.1
Aroclor-1016	3	7.763	0.000	176106	441.6	3	8.055	0.000	102895	431.9
Aroclor-1016	4	8.376	0.000	105721	508.0	4	8.281	0.000	73793	423.8
Total Col1Ave (4 peaks):					495.5	Total Col2Ave (4 peaks):				461.2 RPD = 7
Corrected Ave (3 peaks):					475.7	Corrected Ave (3 peaks):				441.5 RPD = 7
CalAmt %D:					-0.9	CalAmt %D:				-7.8
Aroclor-1260	1	11.017	0.000	257721	460.0	1	11.624	0.000	164199	461.5
Aroclor-1260	2	11.333	0.000	265544	467.2	2	11.892	0.000	437446	468.5
Aroclor-1260	3	11.710	0.000	691159	468.6	3	12.407	0.000	104099	489.6
Aroclor-1260	4	12.116	0.000	354604	484.9	4	12.475	0.000	298513	469.2
Aroclor-1260	5	12.216	0.000	158192	471.4	NS	---			----
Total Col1Ave (5 peaks):					470.4	Total Col2Ave (4 peaks):				472.2 RPD = 0
Corrected Ave (4 peaks):					466.8	Corrected Ave (3 peaks):				466.4 RPD = 0
CalAmt %D:					-5.9	CalAmt %D:				-5.6

Total PCB Area Col1 (5.866 - 13.762) = 7184678 Col1 Total PCB = 1.0 ppm*

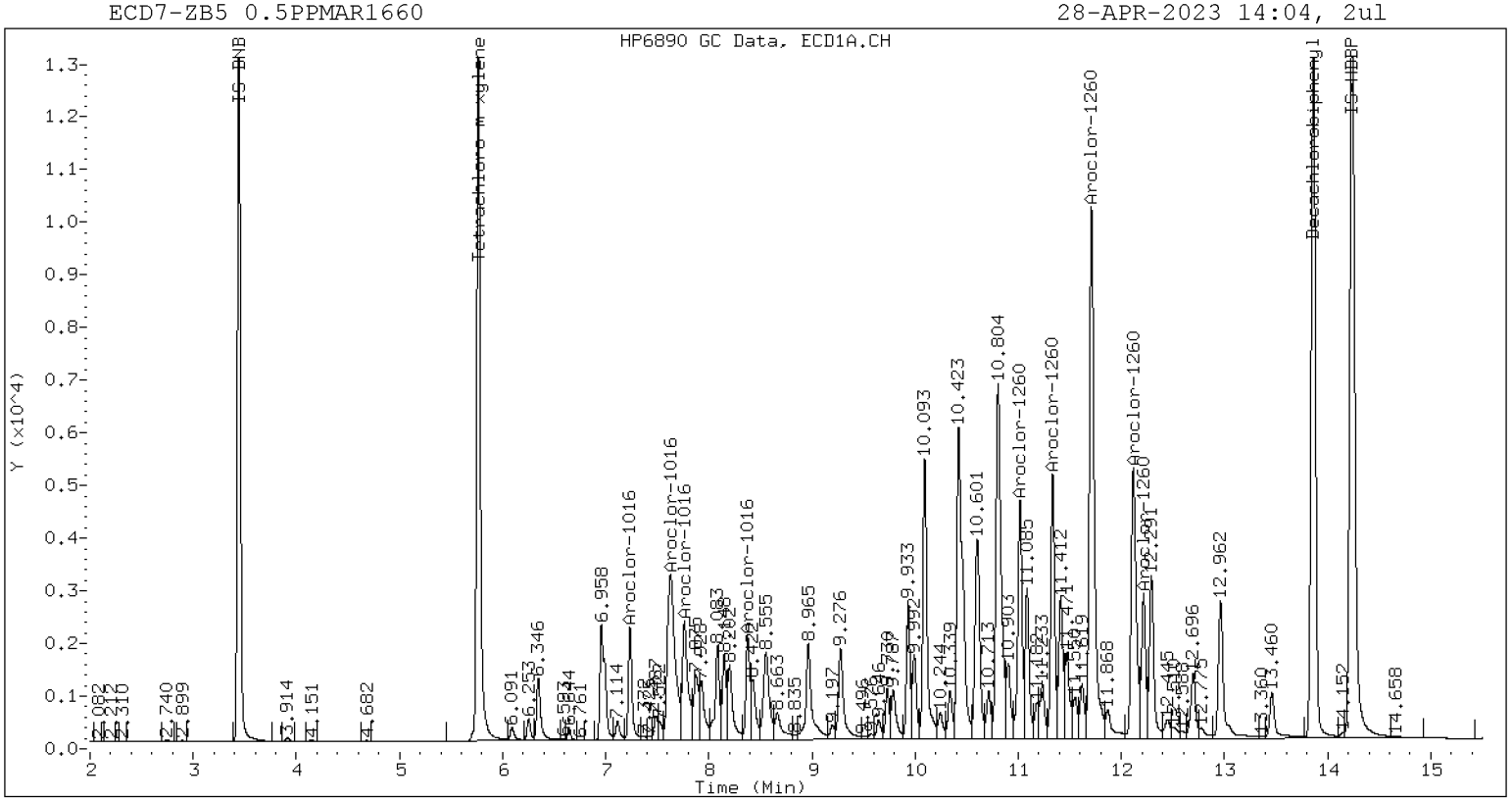
Total PCB Area Col2 (5.751 - 13.984) = 3991357 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

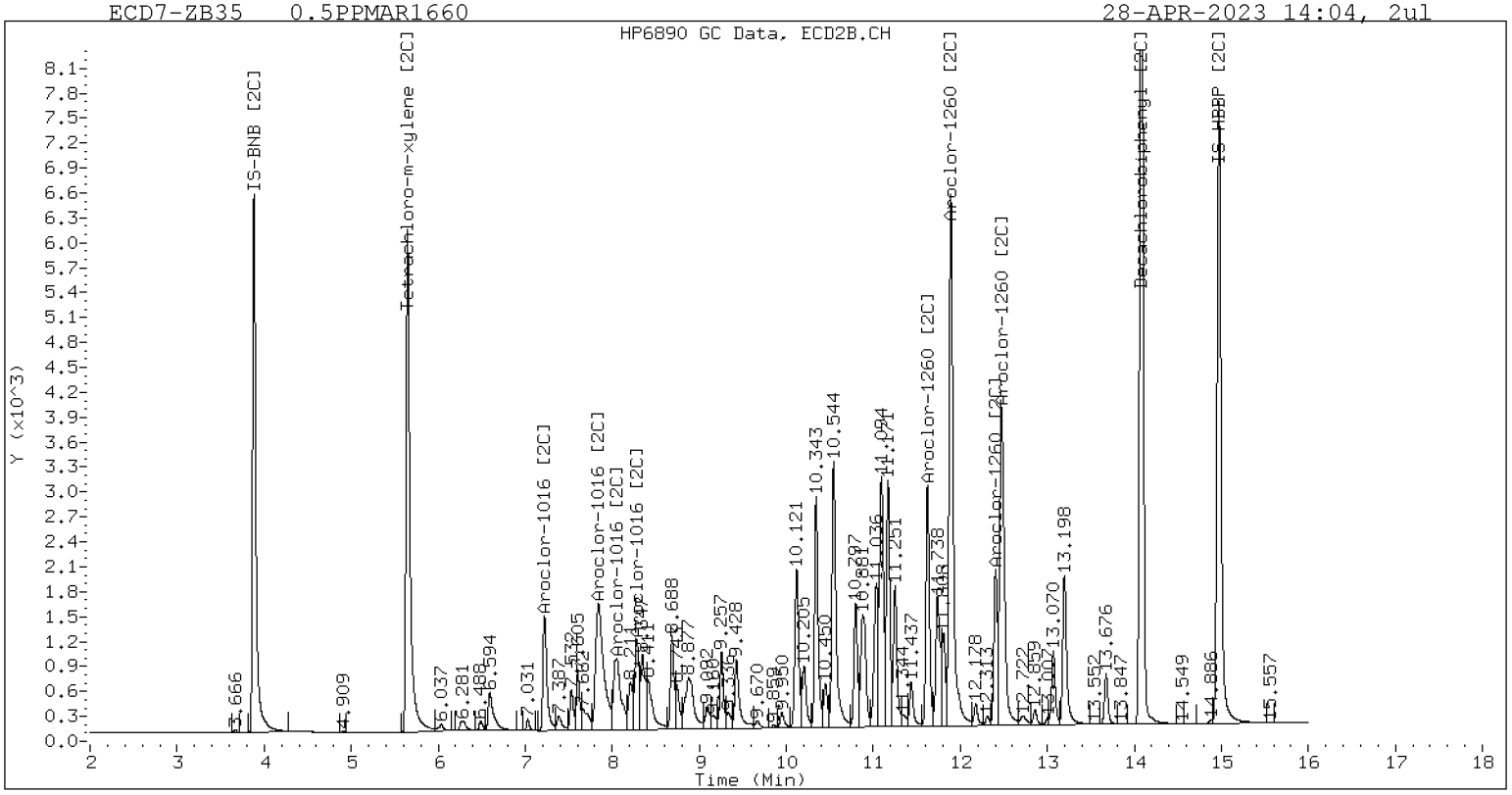
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 28-APR-2023 14:04, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 28-APR-2023 14:04, 2ul

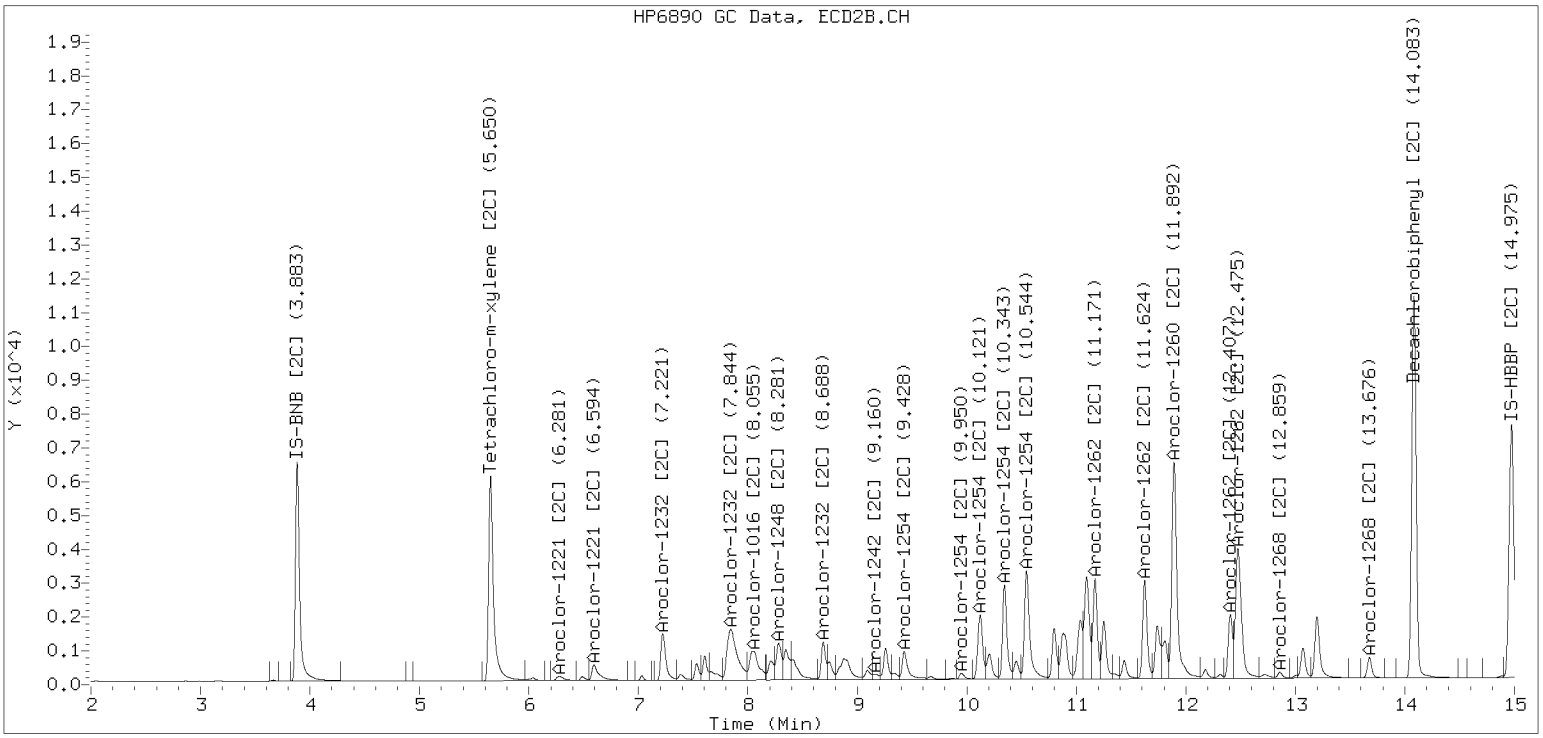


ZB-35 Manual Integration: NO

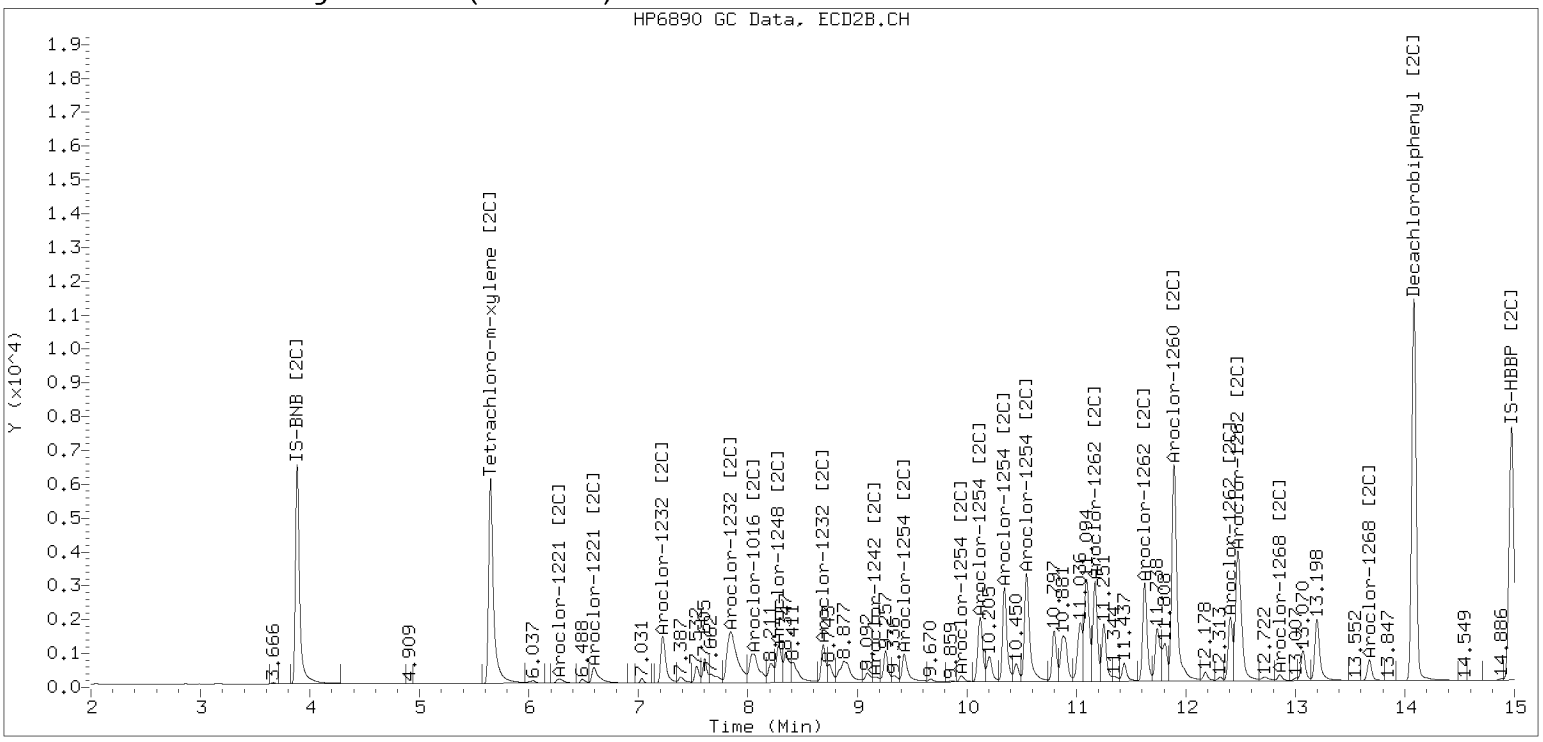
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282309ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282310ECD7.D
Data file 2: /230428.b/230428.b/04282310ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242
Client ID:
Injection Date: 28-APR-2023 14:25
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	402017	5.650	-0.000	234482	47.7	46.8	1.8	Tetrachloro-m-xylene
13.862	0.000	418478	14.083	-0.000	317420	35.9	38.5	7.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	577026	3.7
Hexabromobiphenyl	745660	1074625	44.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	356744	2.4
Hexabromobiphenyl	429949	508972	18.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.236	0.000	45012	250.0	1	7.222	0.000	38749	250.0
Aroclor-1242	2	7.639	0.000	123039	250.0	2	7.859	0.000	77516	250.0
Aroclor-1242	3	8.381	0.000	41377	250.0	3	9.167	0.000	26808	250.0
Aroclor-1242	4	8.560	0.000	61228	250.0	4	9.603	0.000	27519	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.866 - 13.762) = 1181918 Col1 Total PCB = 0.2 ppm*

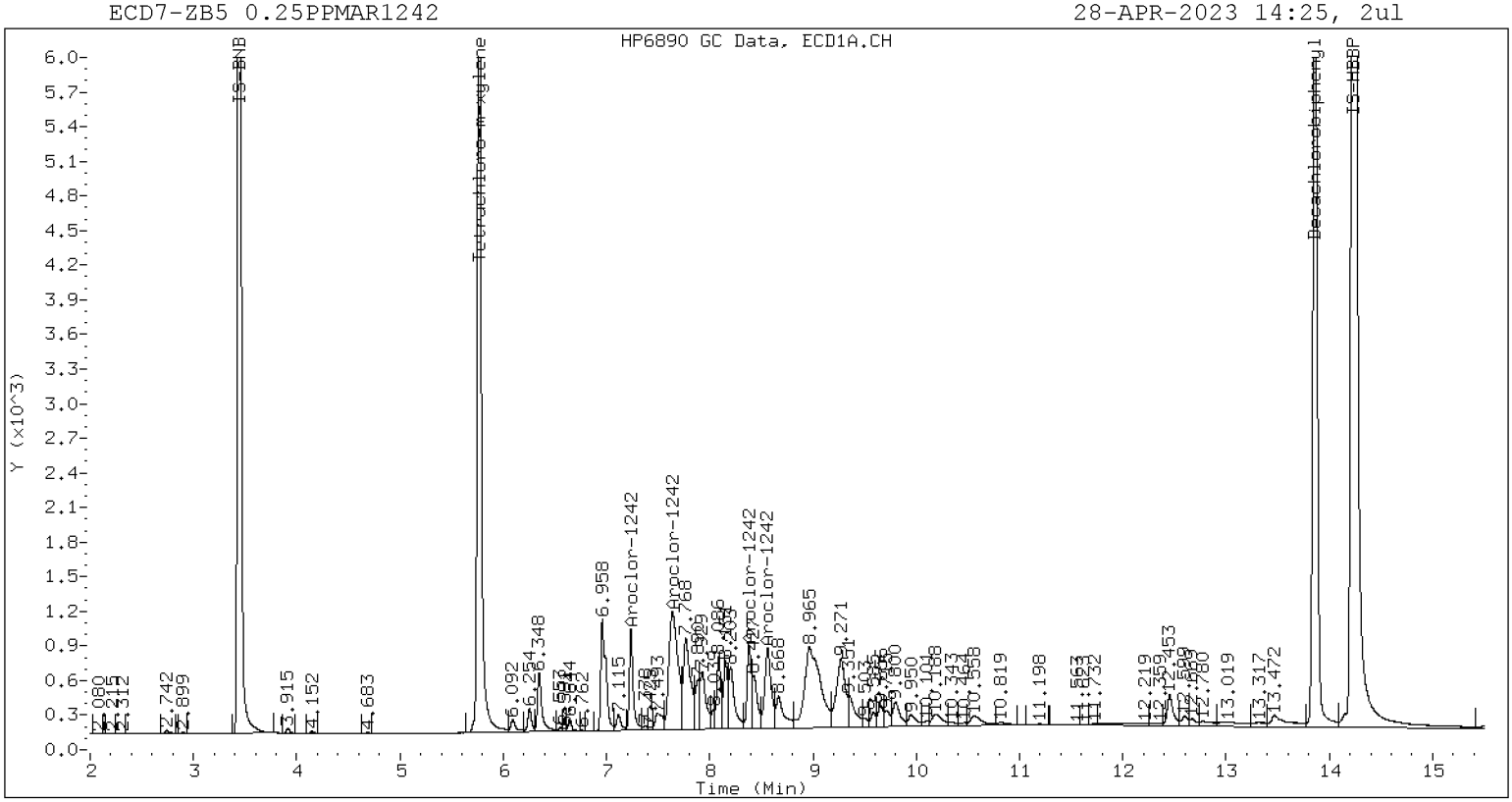
Total PCB Area Col2 (5.751 - 13.984) = 622927 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

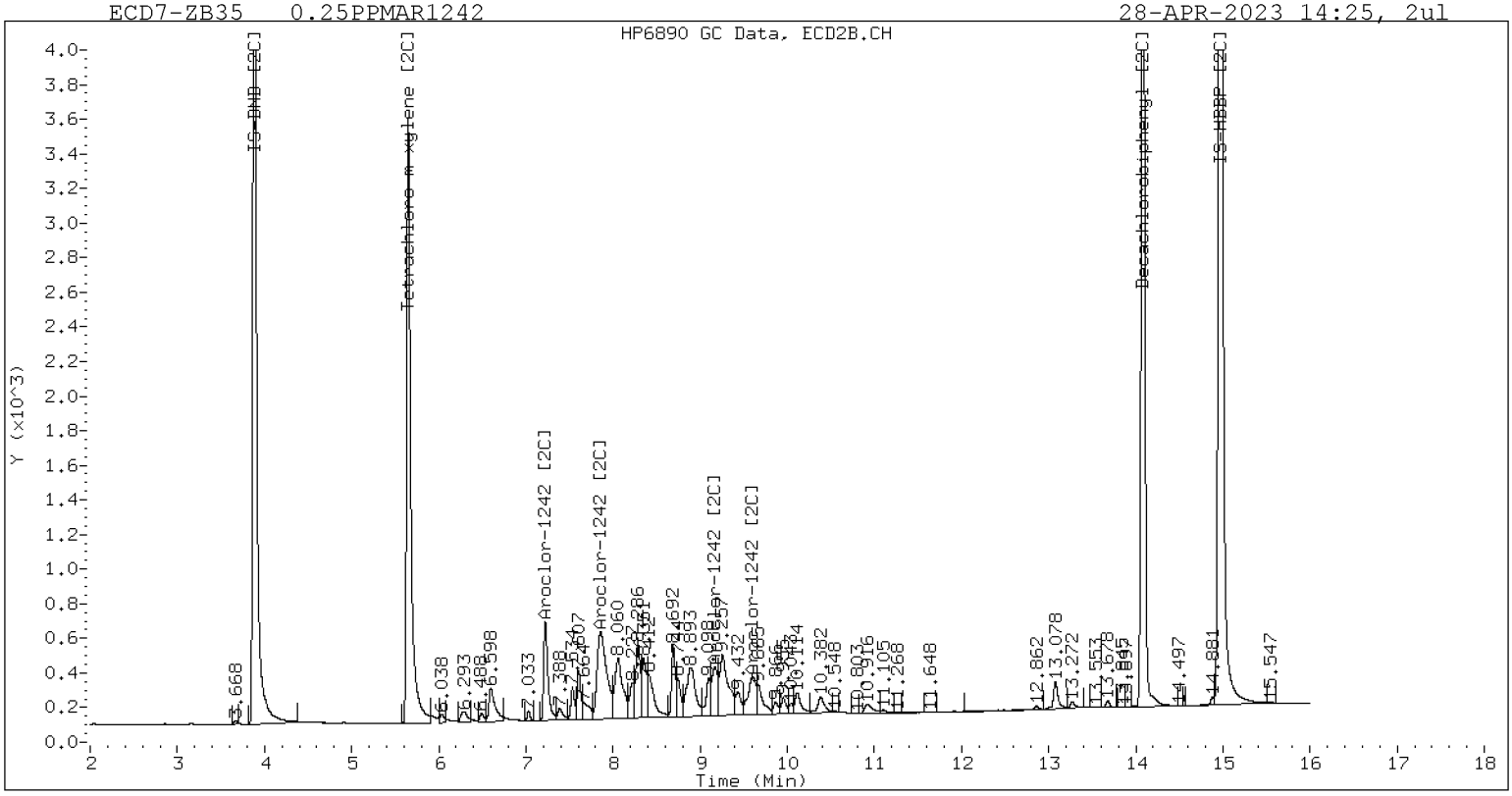
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242 28-APR-2023 14:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 0.25PPMAR1242 28-APR-2023 14:25, 2ul

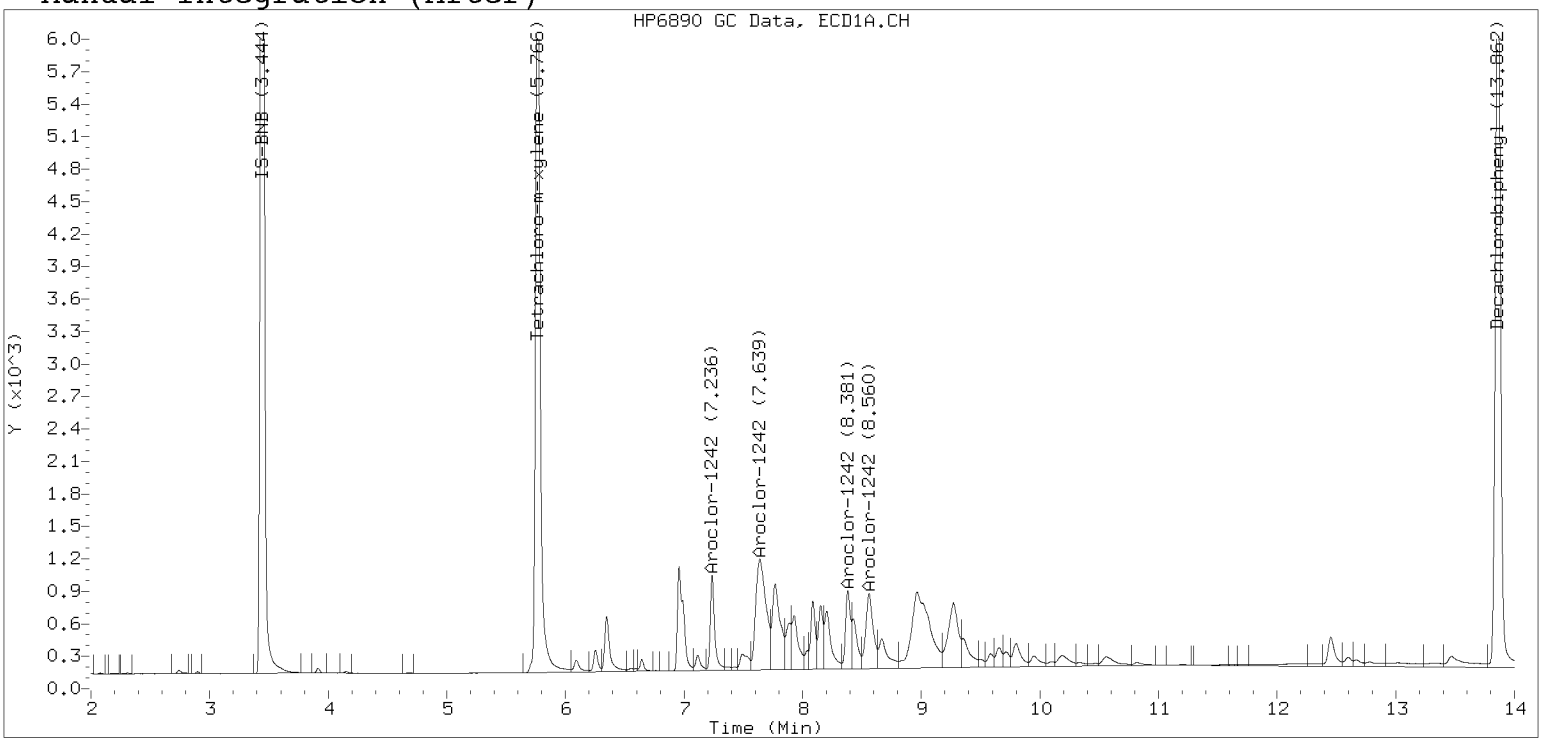


ZB-35 Manual Integration: YES

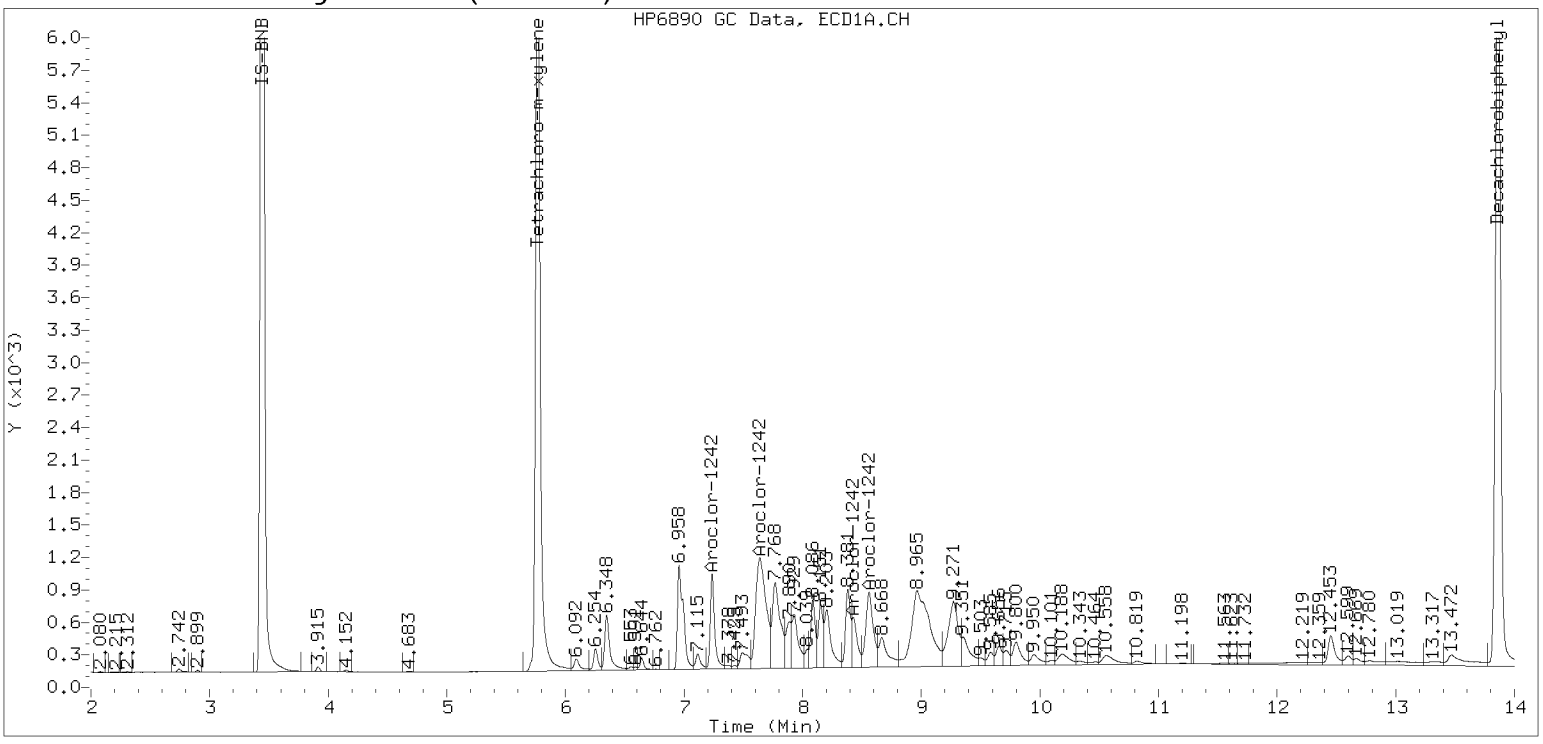
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282310ECD7.D Injection Date: 28-APR-2023 14:25

Manual Integration (After)



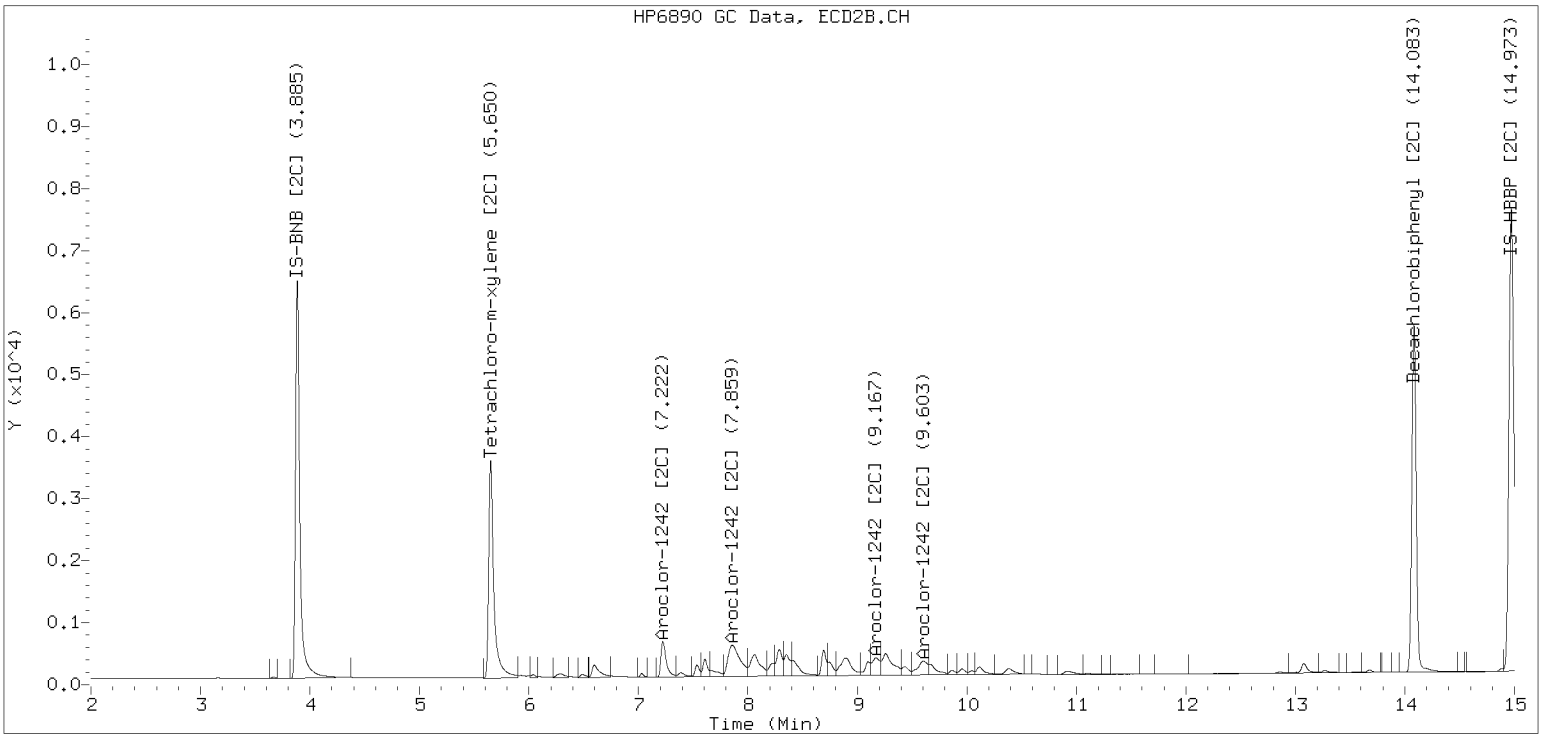
Processed Integration (Before)



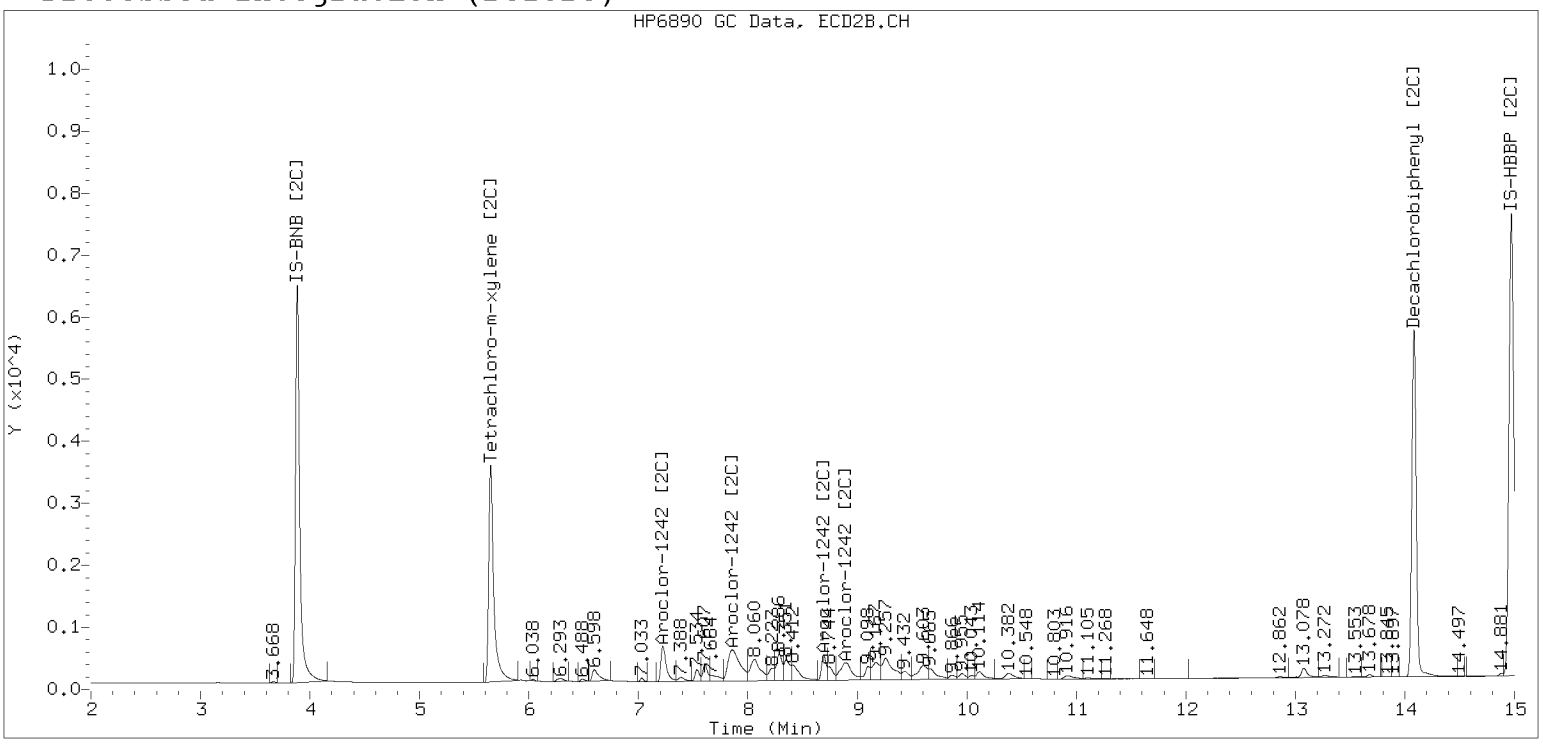
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282310ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282311ECD7.D
Data file 2: /230428.b/230428.b/04282311ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248
Client ID:
Injection Date: 28-APR-2023 14:46
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	327875	5.650	-0.001	186683	38.8	38.0	2.1	Tetrachloro-m-xylene
13.862	0.000	430037	14.083	-0.001	329800	37.0	39.2	5.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	578229	3.9
Hexabromobiphenyl	745660	1073041	43.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	350006	0.4
Hexabromobiphenyl	429949	519197	20.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.379	0.000	69843	250.0	1	8.285	0.000	45908	250.0
Aroclor-1248	2	8.559	0.000	92613	250.0	2	8.691	0.000	40408	250.0
Aroclor-1248	3	8.964	0.000	276416	250.0	3	9.164	0.000	49564	250.0
Aroclor-1248	4	9.271	0.000	145162	250.0	4	9.594	0.000	52871	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.866 - 13.762) = 1492838 Col1 Total PCB = 0.2 ppm*

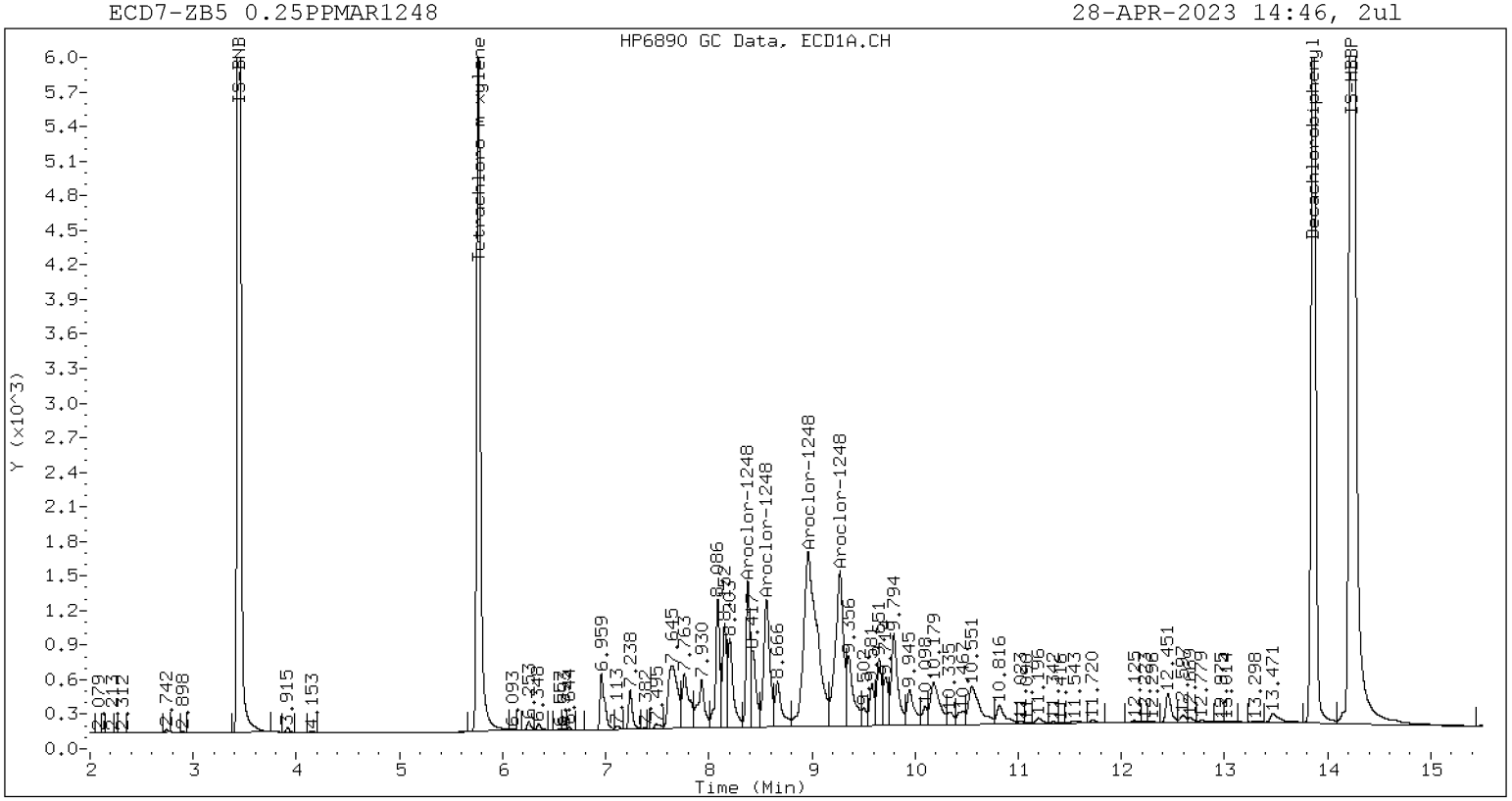
Total PCB Area Col2 (5.751 - 13.984) = 815809 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

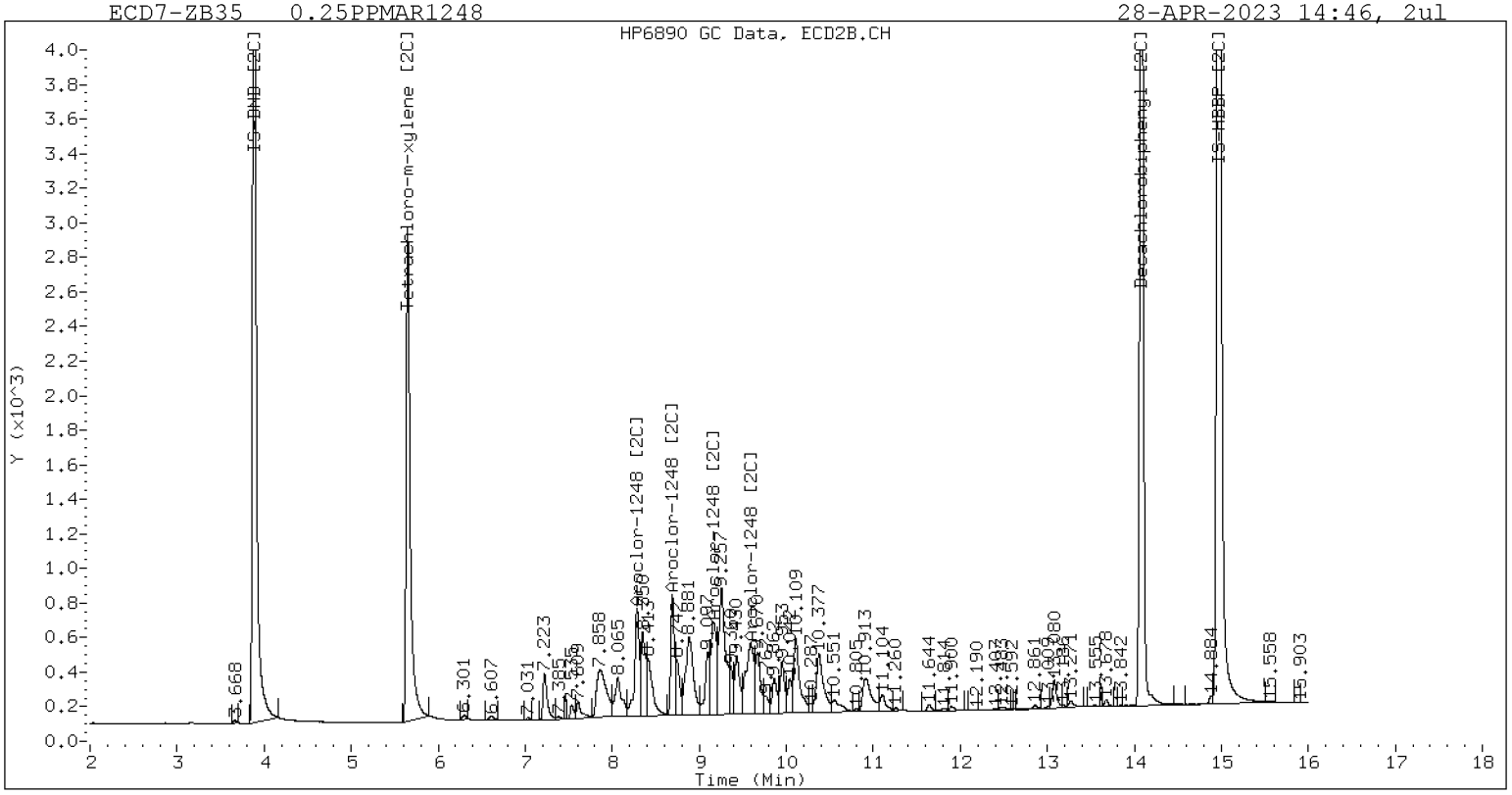
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248 28-APR-2023 14:46, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 0.25PPMAR1248 28-APR-2023 14:46, 2ul

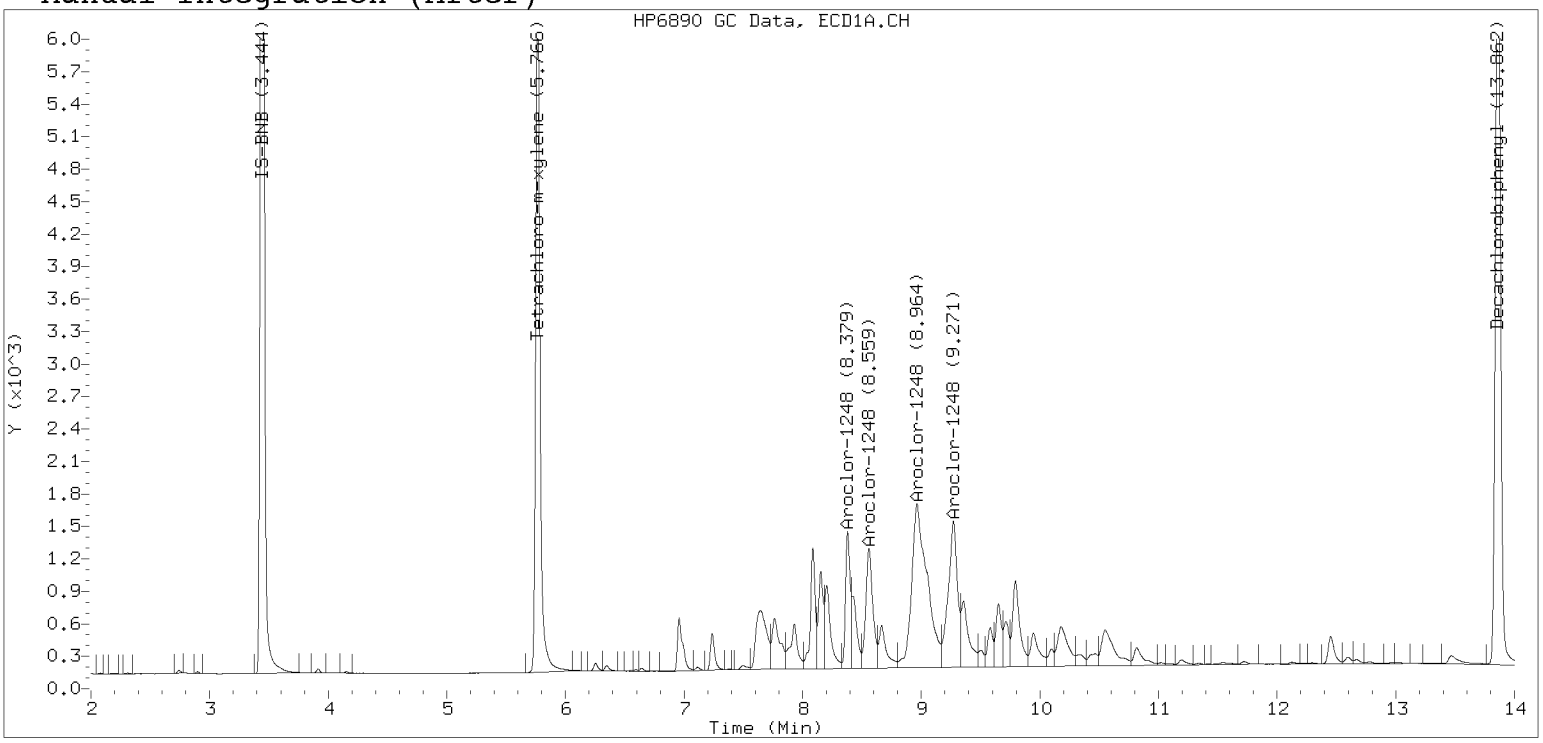


ZB-35 Manual Integration: YES

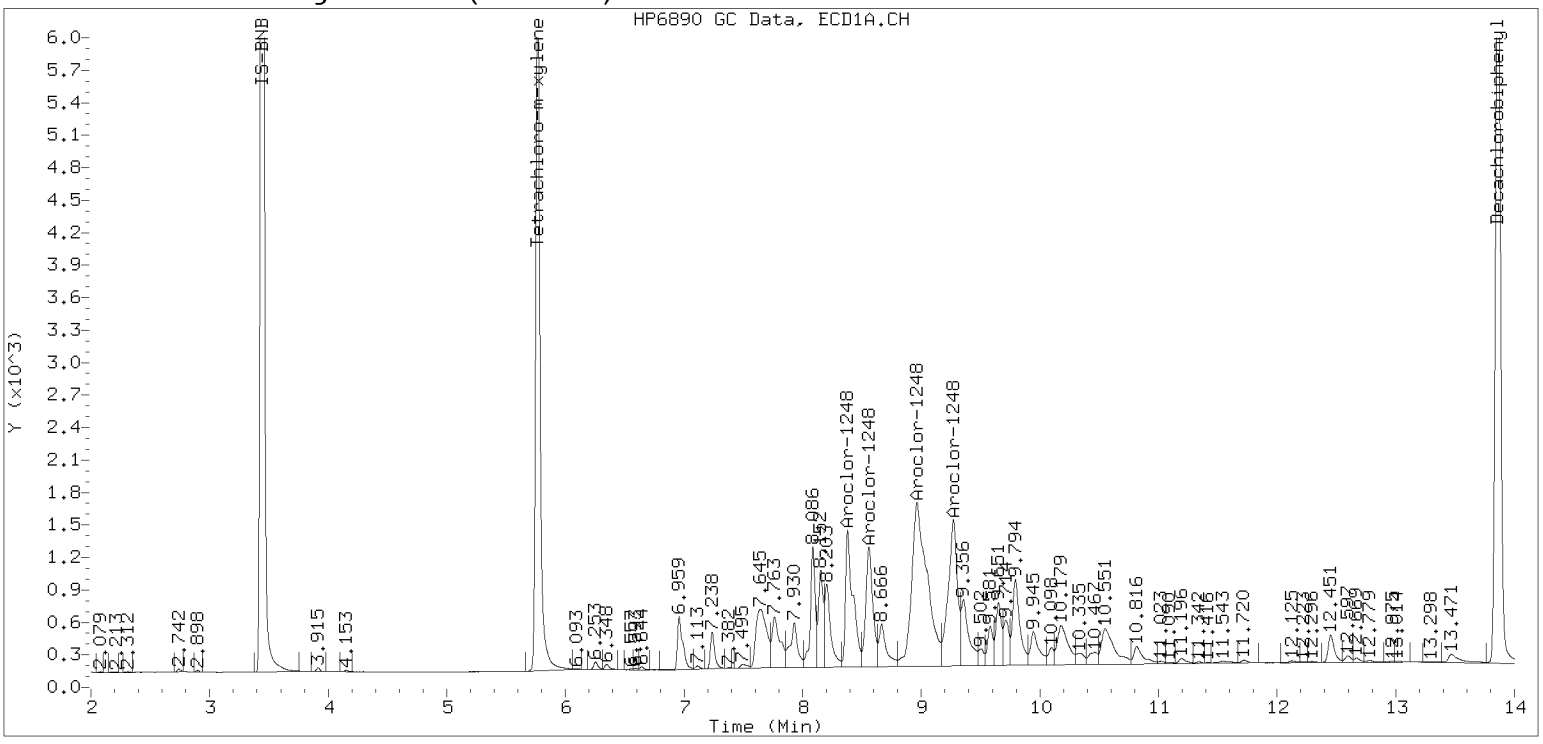
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282311ECD7.D Injection Date: 28-APR-2023 14:46

Manual Integration (After)



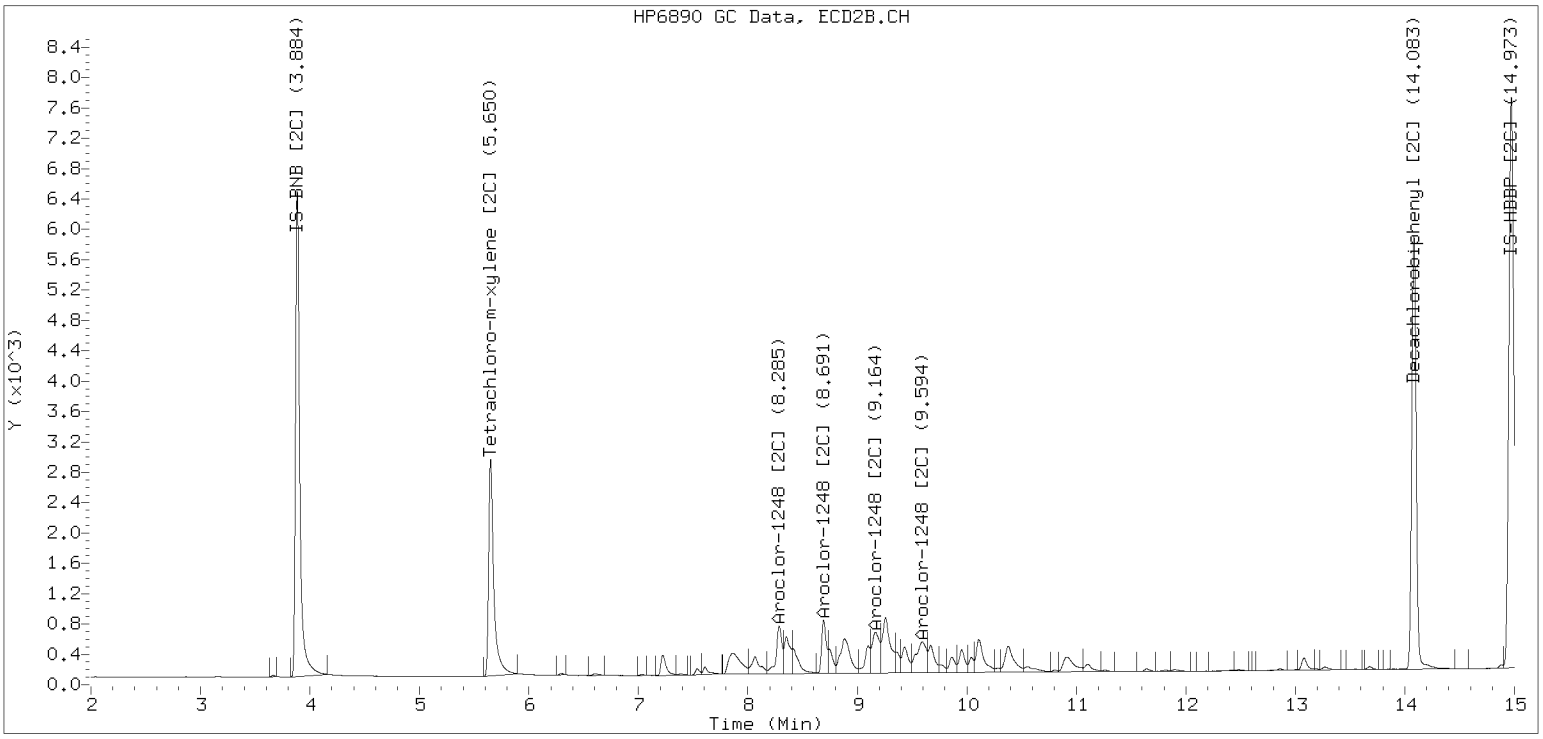
Processed Integration (Before)



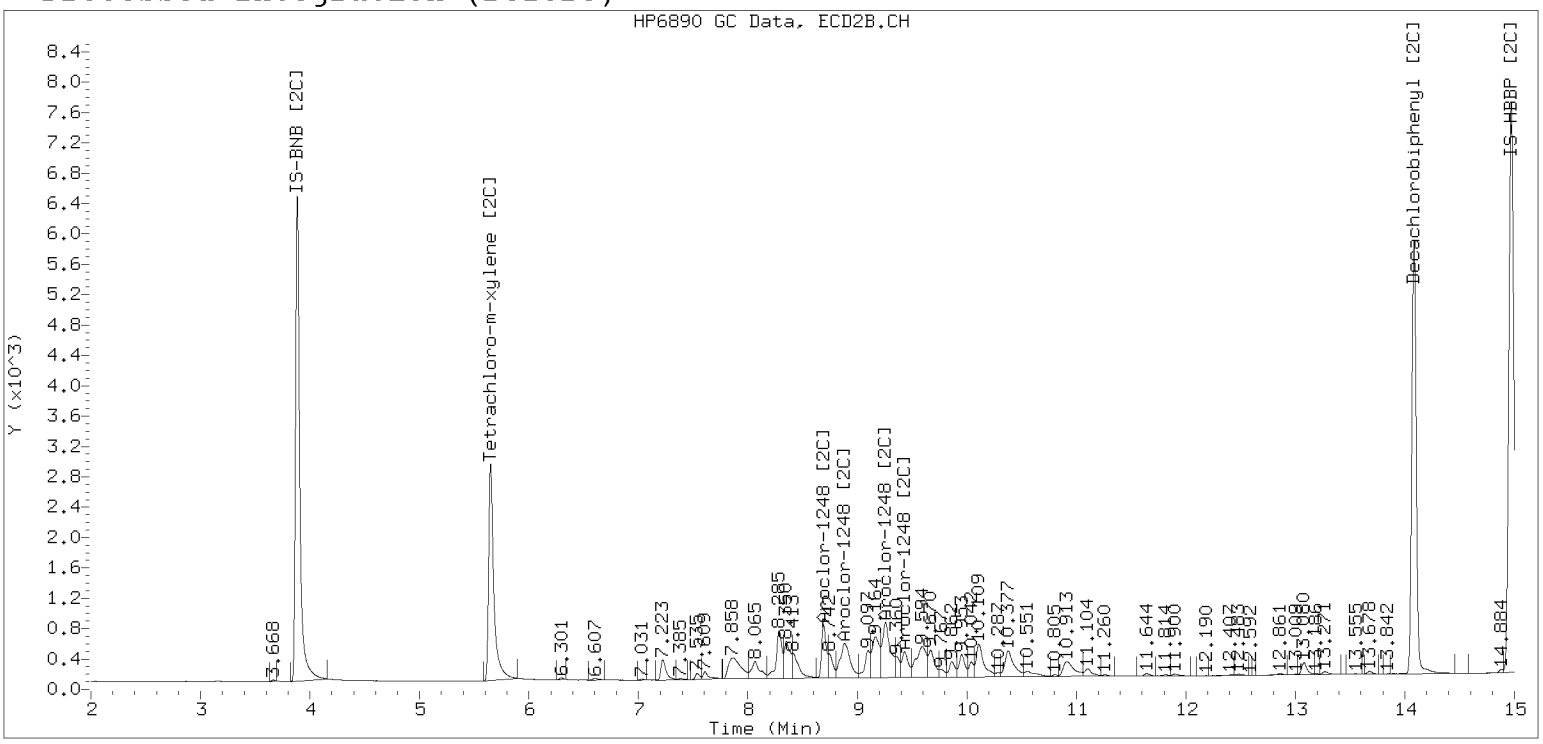
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282311ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282312ECD7.D
Data file 2: /230428.b/230428.b/04282312ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254
Client ID:
Injection Date: 28-APR-2023 15:07
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	328655	5.650	-0.000	184993	38.9	37.6	3.4	Tetrachloro-m-xylene
13.863	0.001	429537	14.084	0.000	334681	36.9	39.3	6.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	578576	4.0
Hexabromobiphenyl	745660	1074201	44.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	350778	0.7
Hexabromobiphenyl	429949	525817	22.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.276	0.000	156242	250.0	1	9.430	0.000	65566	250.0
Aroclor-1254	2	9.358	0.000	74054	250.0	2	9.528	0.000	39960	250.0
Aroclor-1254	3	9.648	0.000	98781	250.0	3	9.950	0.000	53074	250.0
Aroclor-1254	4	9.790	0.000	200665	250.0	4	10.110	0.000	114903	250.0
Aroclor-1254	5	10.168	0.000	105479	250.0	5	10.356	0.000	132058	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.866 - 13.762) = 2118035 Col1 Total PCB = 0.3 ppm*

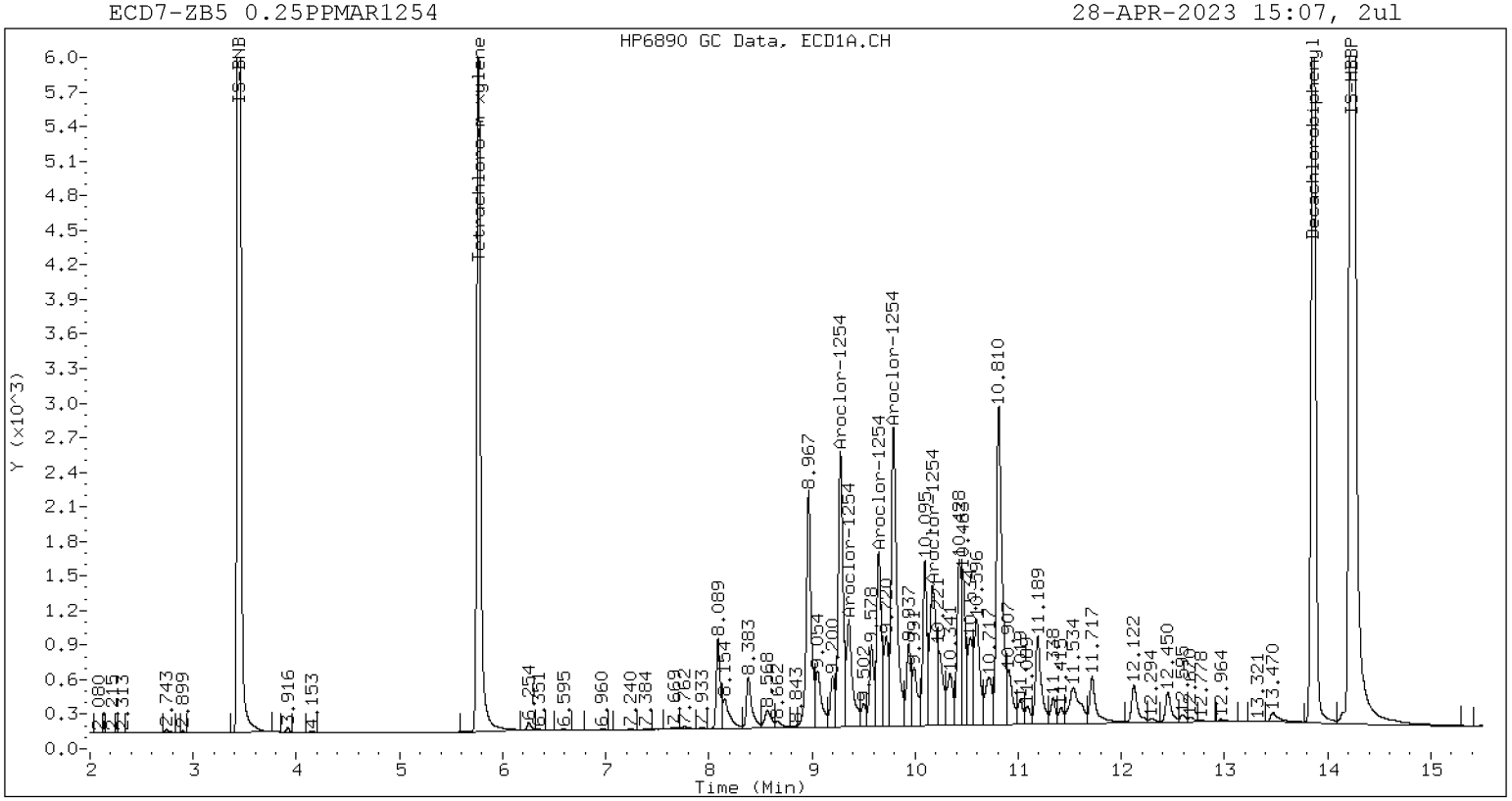
Total PCB Area Col2 (5.751 - 13.984) = 1140217 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

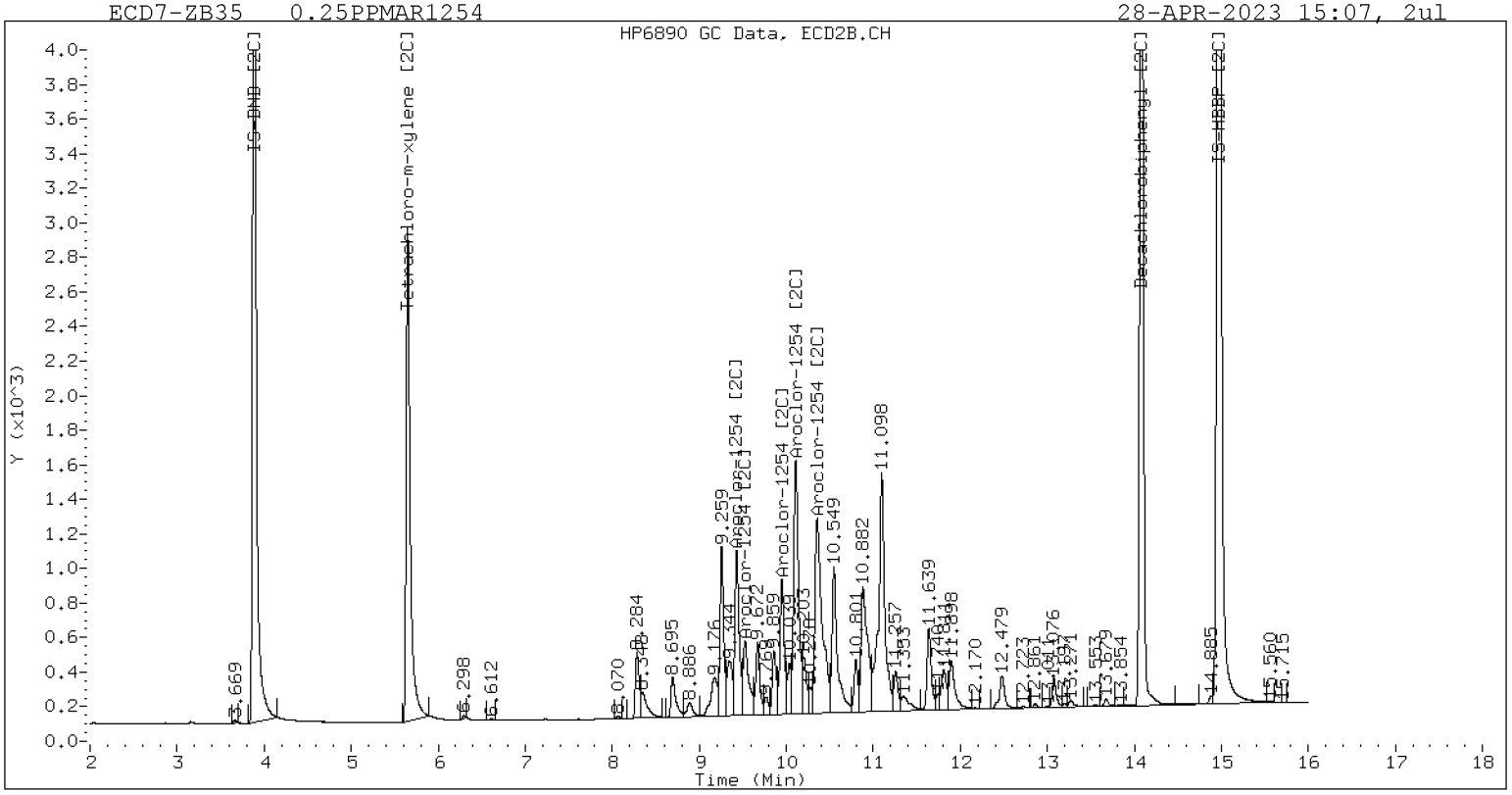
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254 28-APR-2023 15:07, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 0.25PPMAR1254 28-APR-2023 15:07, 2ul

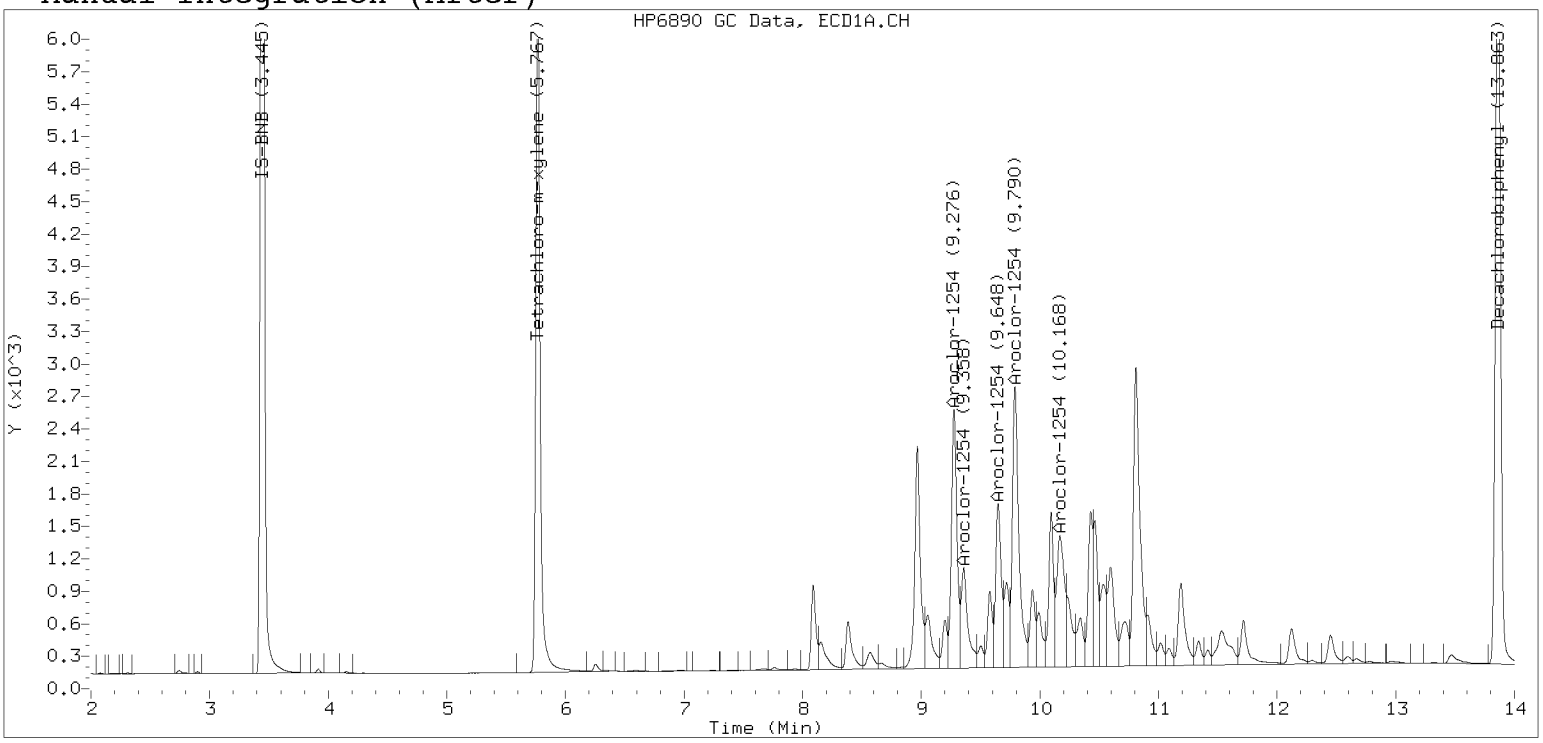


ZB-35 Manual Integration: NO

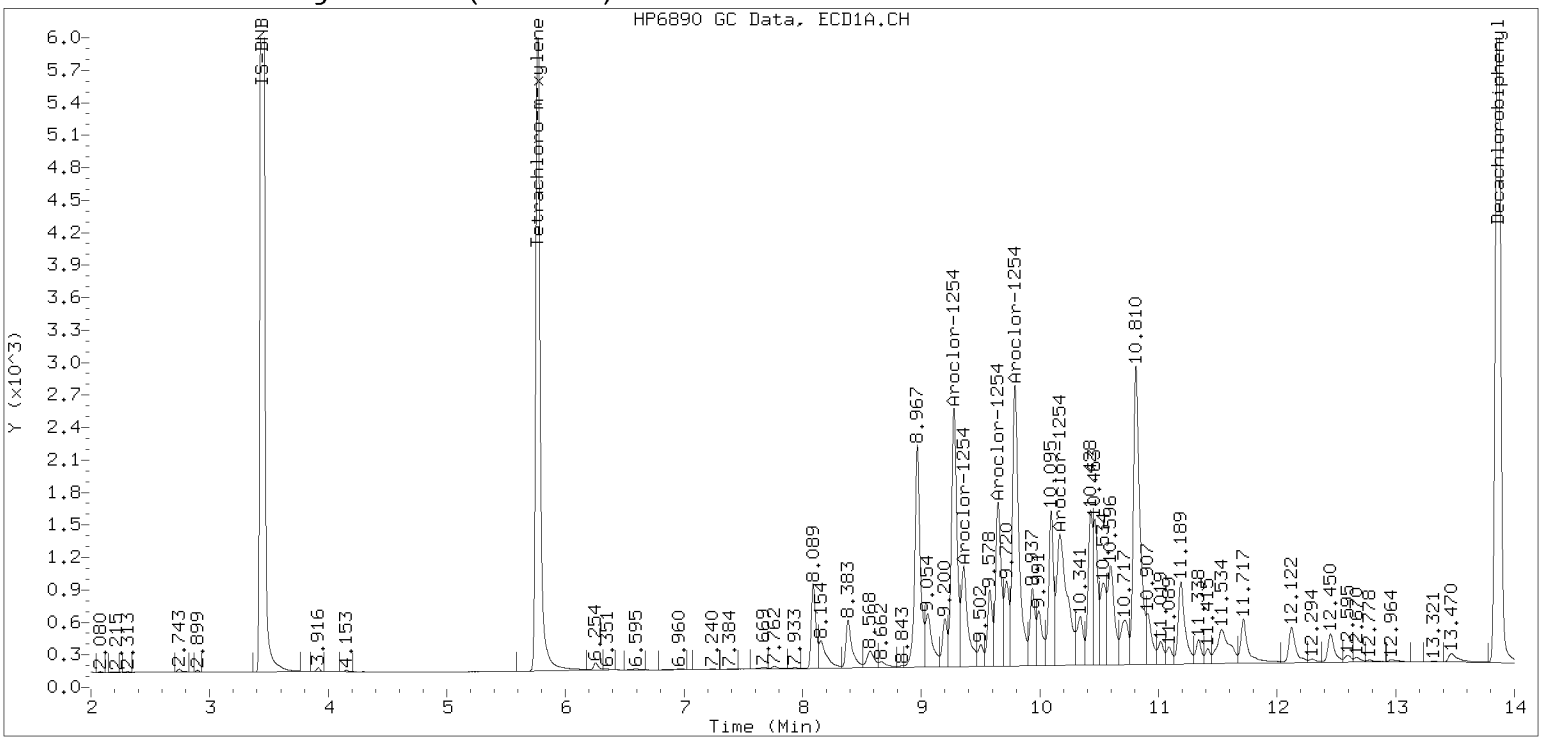
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282312ECD7.D Injection Date: 28-APR-2023 15:07

Manual Integration (After)



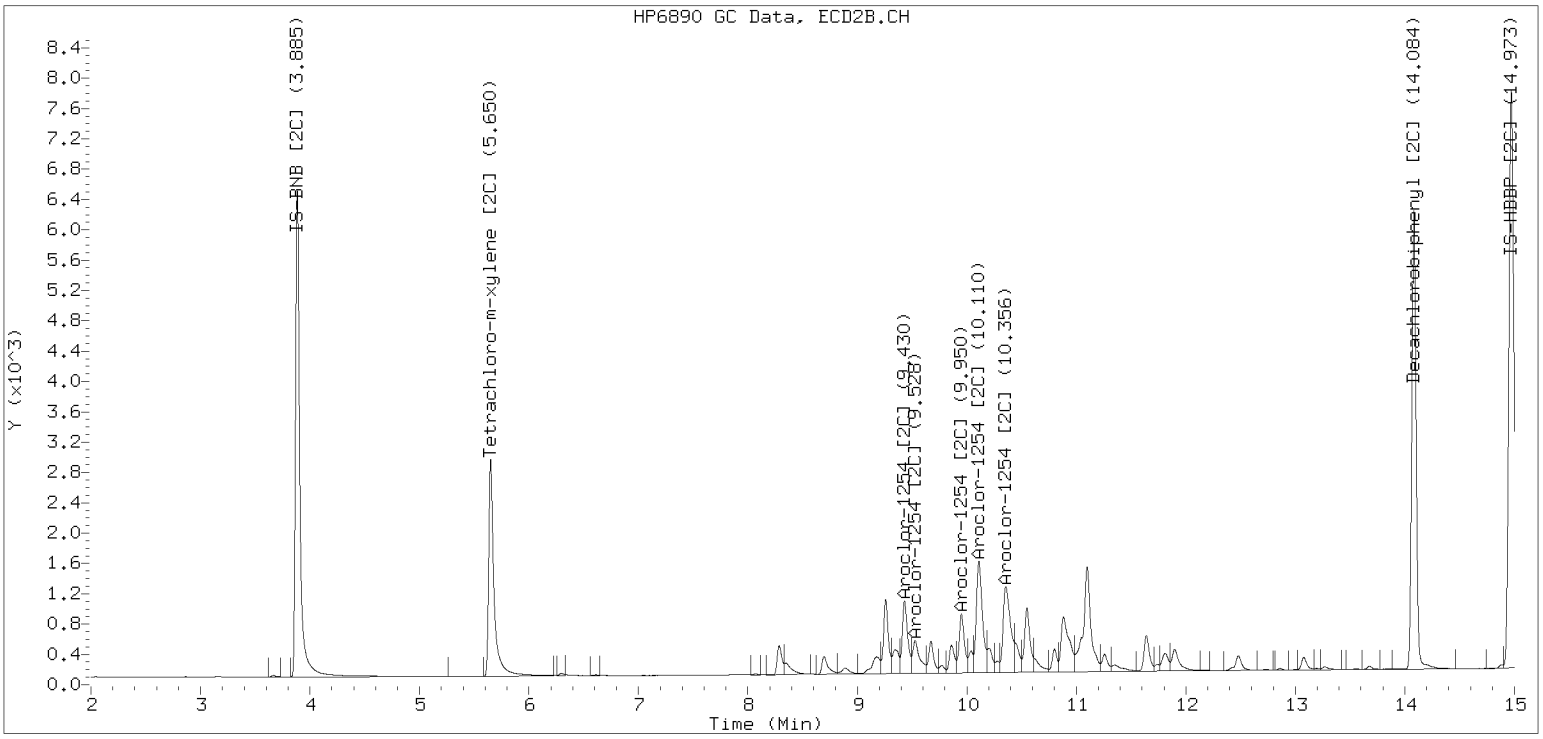
Processed Integration (Before)



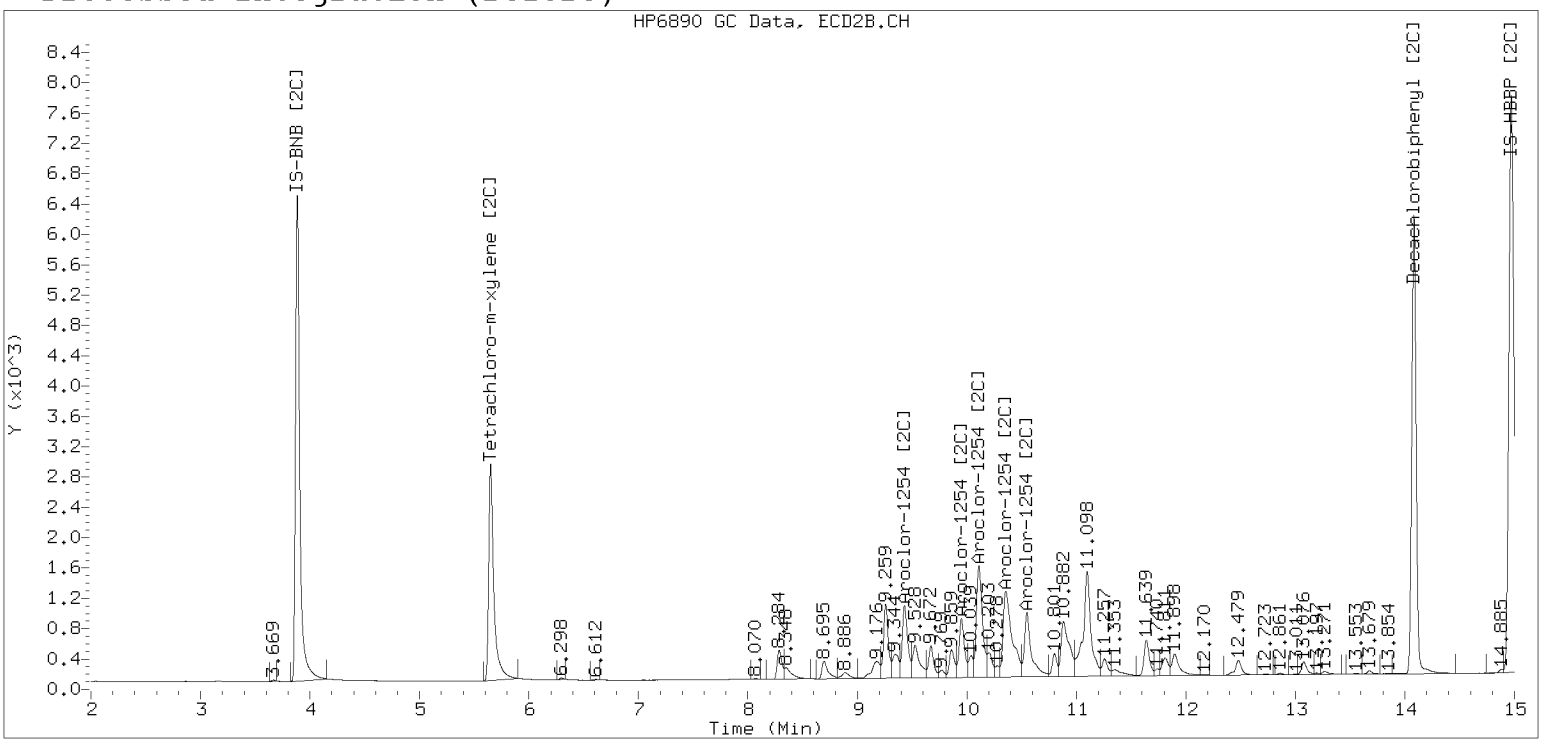
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282312ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282313ECD7.D
Data file 2: /230428.b/230428.b/04282313ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR2162
Client ID:
Injection Date: 28-APR-2023 15:28
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	332246	5.650	-0.000	190089	39.1	38.8	0.8	Tetrachloro-m-xylene
13.862	0.001	427054	14.084	0.000	328530	36.3	38.2	5.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	581811	4.6
Hexabromobiphenyl	745660	1086287	45.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	349098	0.2
Hexabromobiphenyl	429949	531347	23.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1221	1	4.682	0.000	11133	250.0	1	4.910	0.000	6479	250.0
Aroclor-1221	2	6.093	0.000	22335	250.0	2	6.265	0.000	13840	250.0
Aroclor-1221	3	6.346	0.000	52982	250.0	3	6.594	0.000	31675	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.809	0.000	105977	250.0	1	11.173	0.000	132795	250.0
Aroclor-1262	2	12.217	0.000	185071	250.0	2	11.624	0.000	111849	250.0
Aroclor-1262	3	12.292	0.000	203418	250.0	3	12.403	0.000	117798	250.0
Aroclor-1262	4	12.963	0.000	164084	250.0	4	12.475	0.000	203596	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.866 - 13.762) = 2989194 Col1 Total PCB = 0.4 ppm*

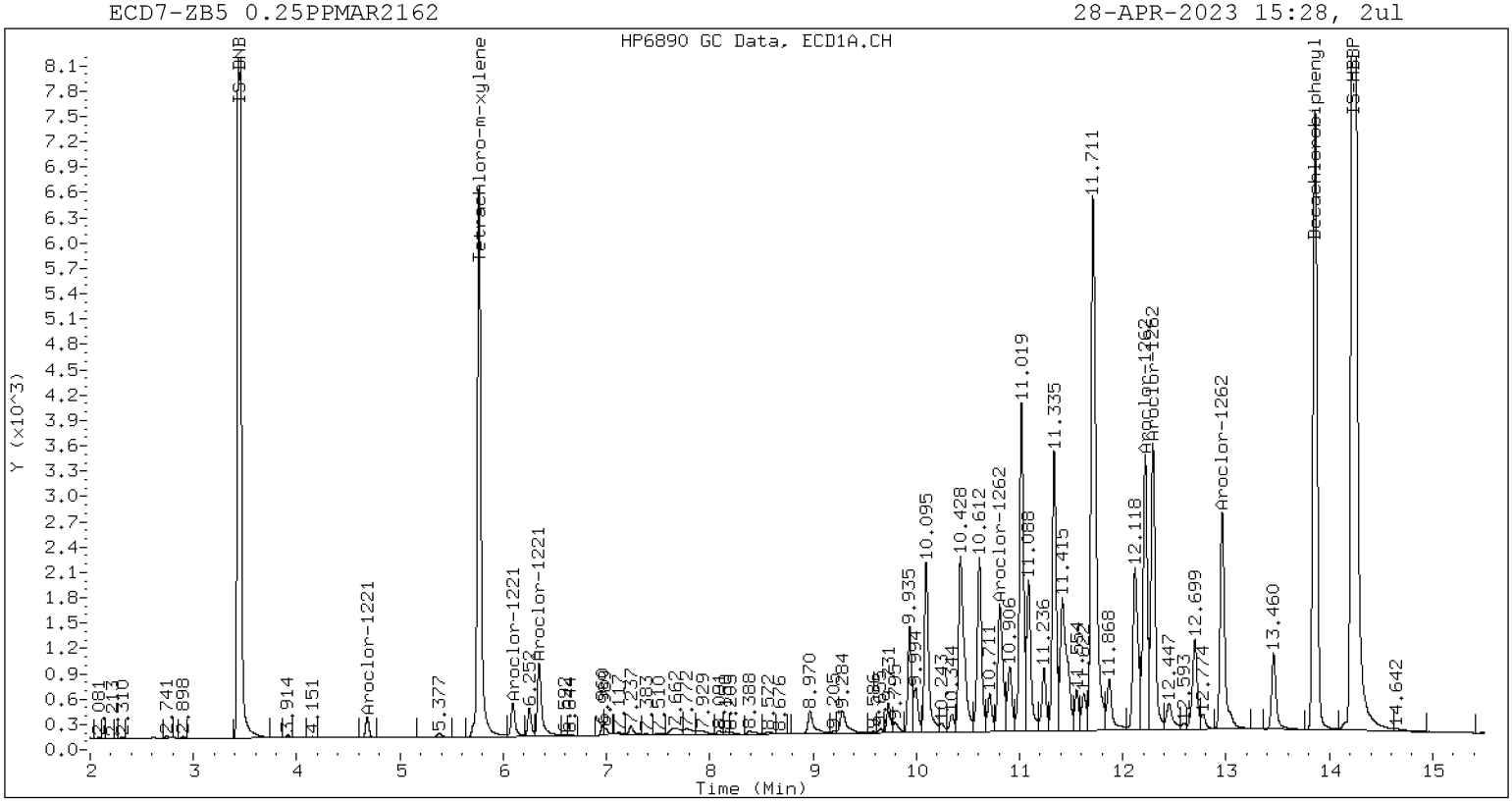
Total PCB Area Col2 (5.751 - 13.984) = 1770720 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

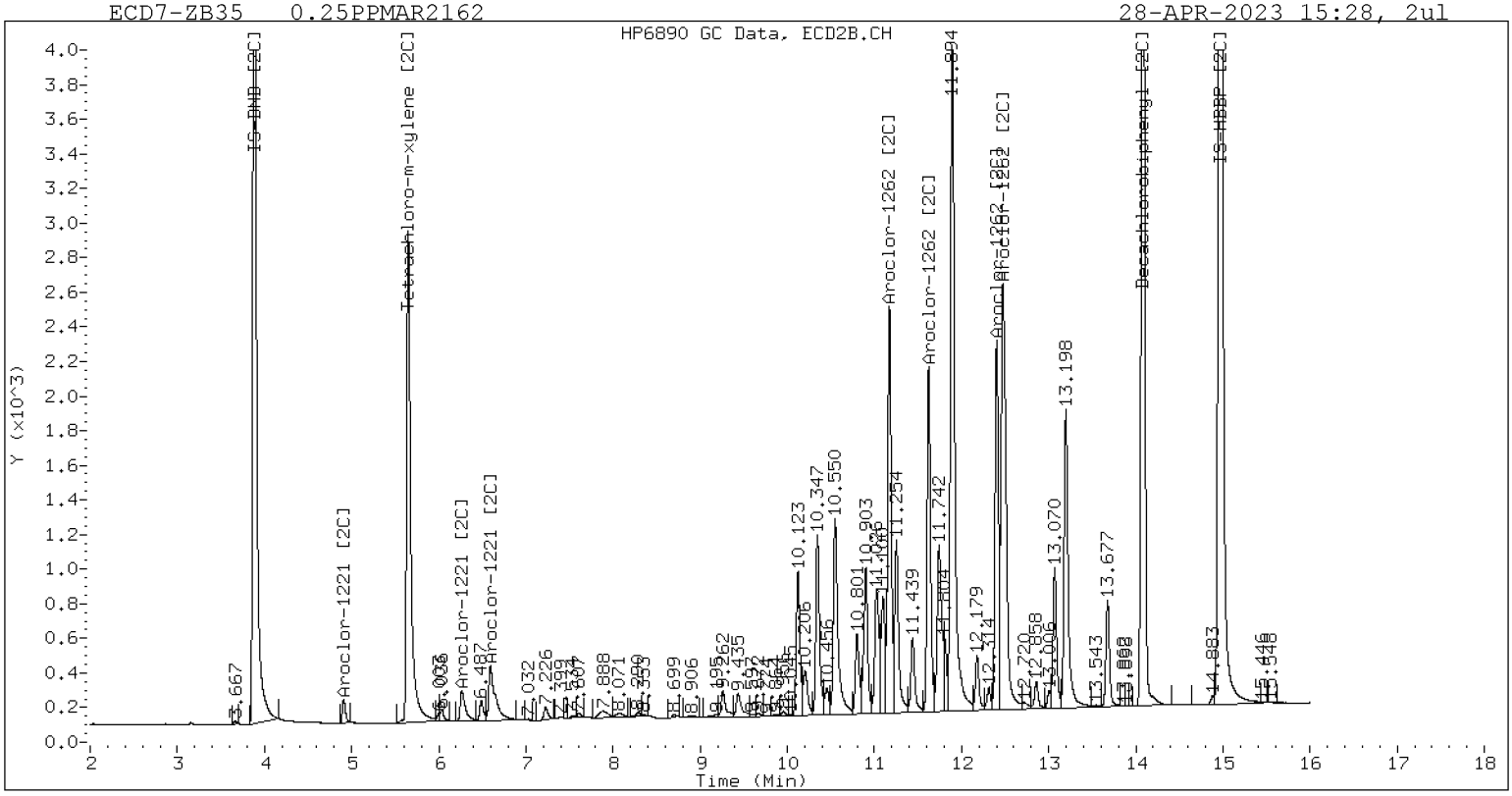
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162 28-APR-2023 15:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162 28-APR-2023 15:28, 2ul

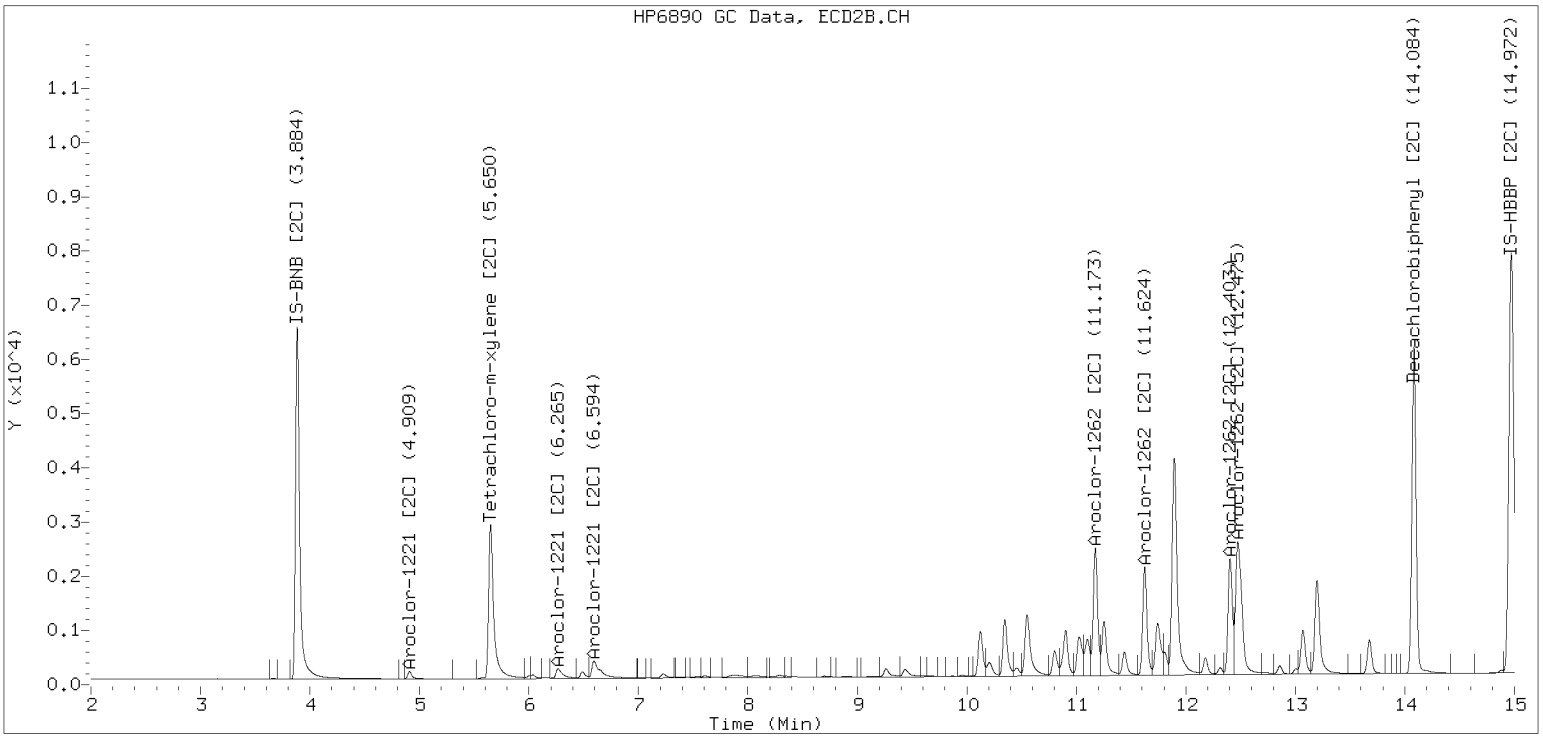


ZB-35 Manual Integration: NO

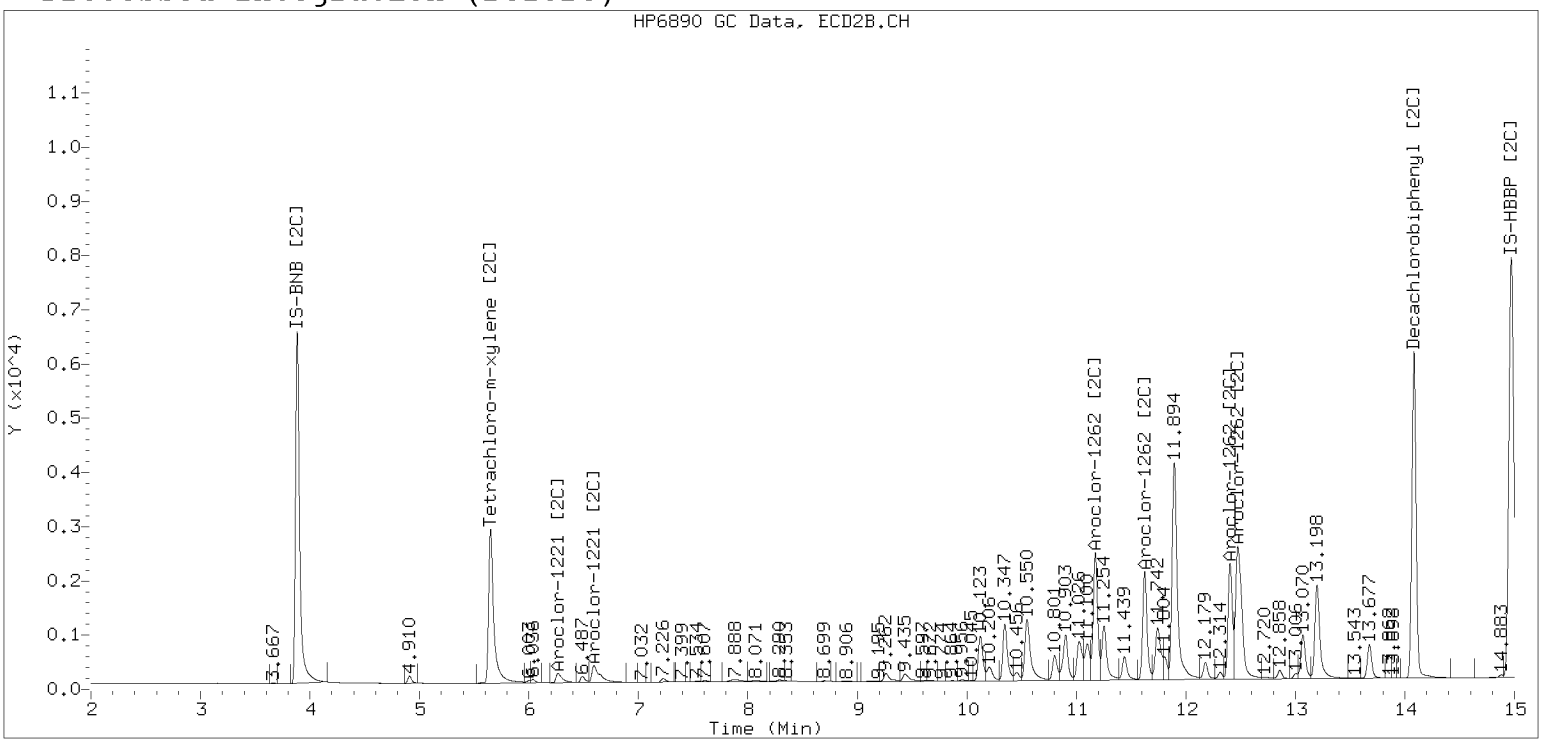
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282313ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282314ECD7.D
Data file 2: /230428.b/230428.b/04282314ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268
Client ID:
Injection Date: 28-APR-2023 15:49
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	-0.000	337763	5.651	0.000	194138	39.8	39.5	0.9	Tetrachloro-m-xylene
13.860	-0.001	643123	14.084	0.000	501139	53.6	57.6	7.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	580156	4.3
Hexabromobiphenyl	745660	1107258	48.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	350186	0.5
Hexabromobiphenyl	429949	537160	24.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1232	1	4.682	0.000	7059	250.0	1	4.911	0.000	3768	250.0
Aroclor-1232	2	6.093	0.000	15616	250.0	2	7.225	0.000	20959	250.0
Aroclor-1232	3	7.651	0.000	61924	250.0	3	7.863	0.000	41363	250.0
Aroclor-1232	4	8.563	0.000	28843	250.0	4	8.694	0.000	12737	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.218	0.000	475209	250.0	1	12.403	0.000	310411	250.0
Aroclor-1268	2	12.291	0.000	494781	250.0	2	12.472	0.000	352185	250.0
Aroclor-1268	3	12.669	0.000	411539	250.0	3	12.858	0.000	290953	250.0
Aroclor-1268	4	13.461	0.000	1190059	250.0	4	13.677	0.000	886581	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.866 - 13.762) = 3795737 Col1 Total PCB = 0.5 ppm*

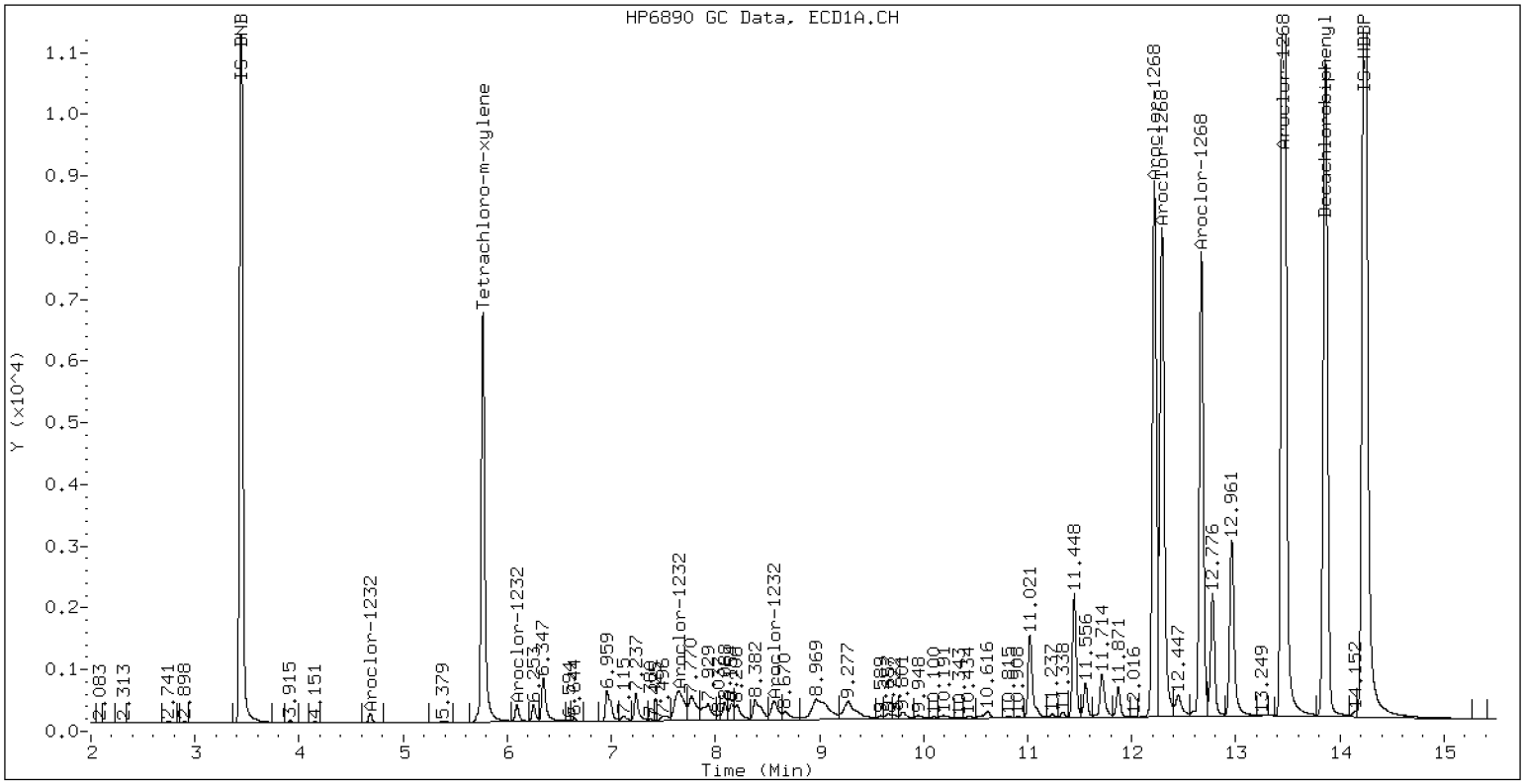
Total PCB Area Col2 (5.751 - 13.984) = 2603857 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

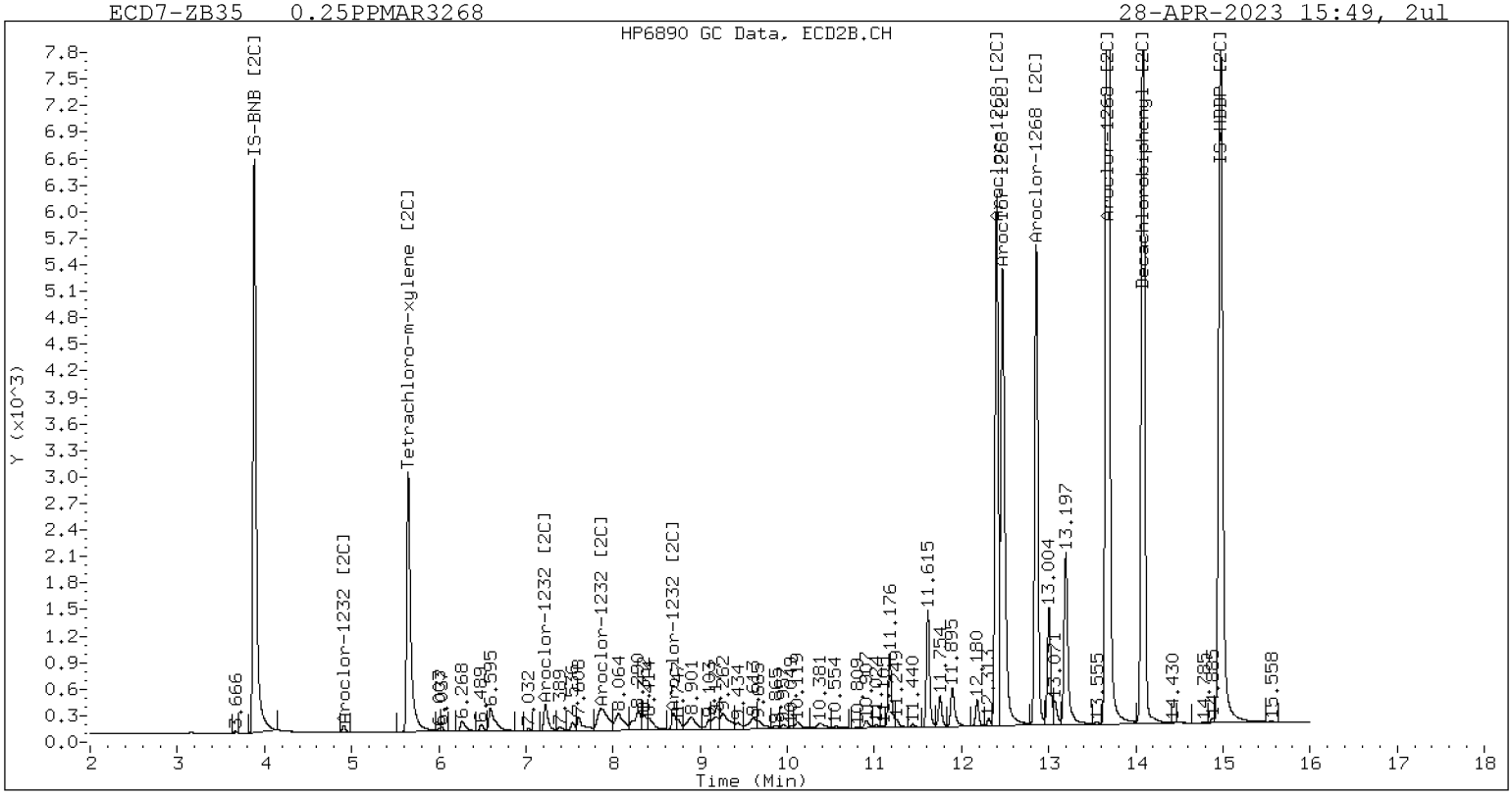
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268 28-APR-2023 15:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268 28-APR-2023 15:49, 2ul

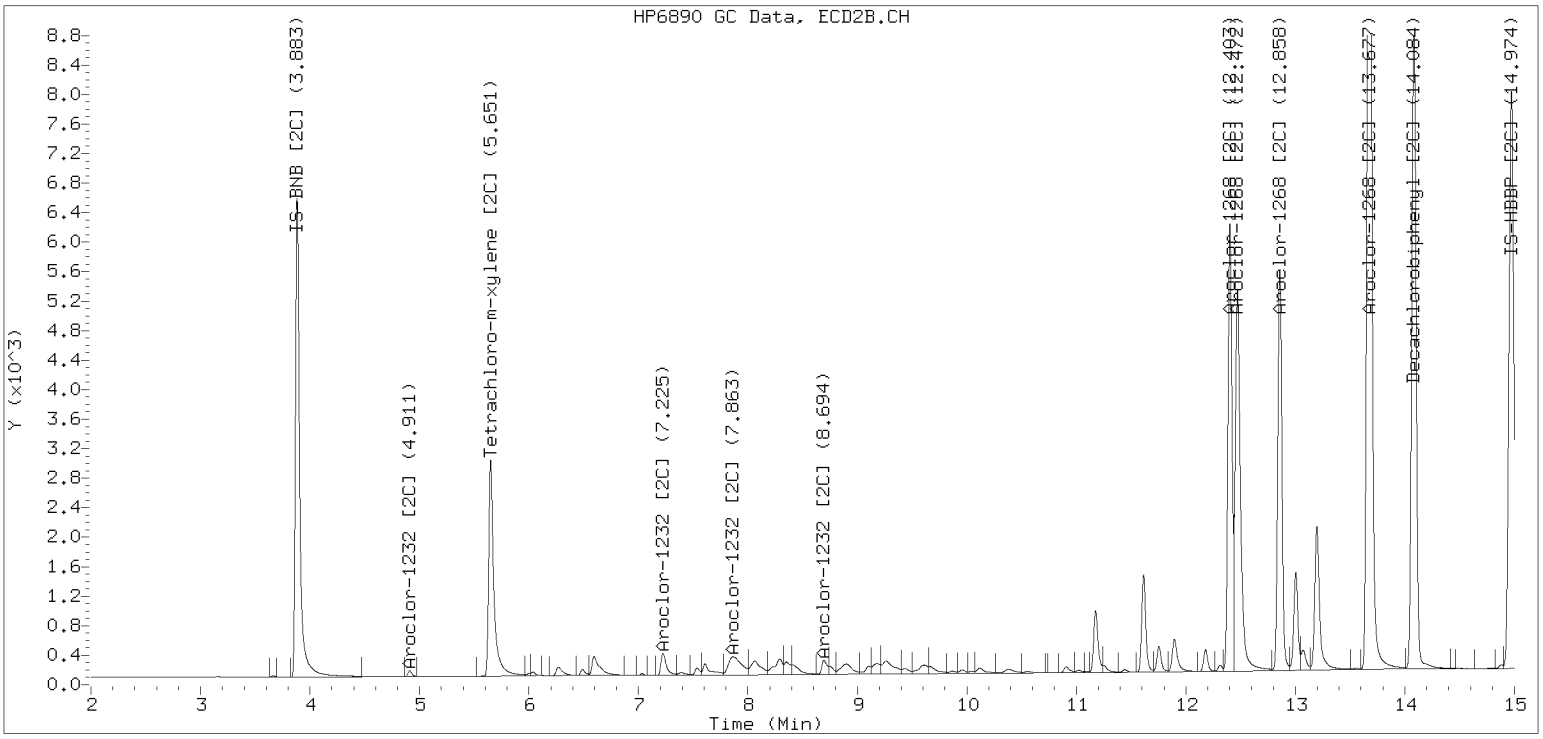


ZB-35 Manual Integration: NO

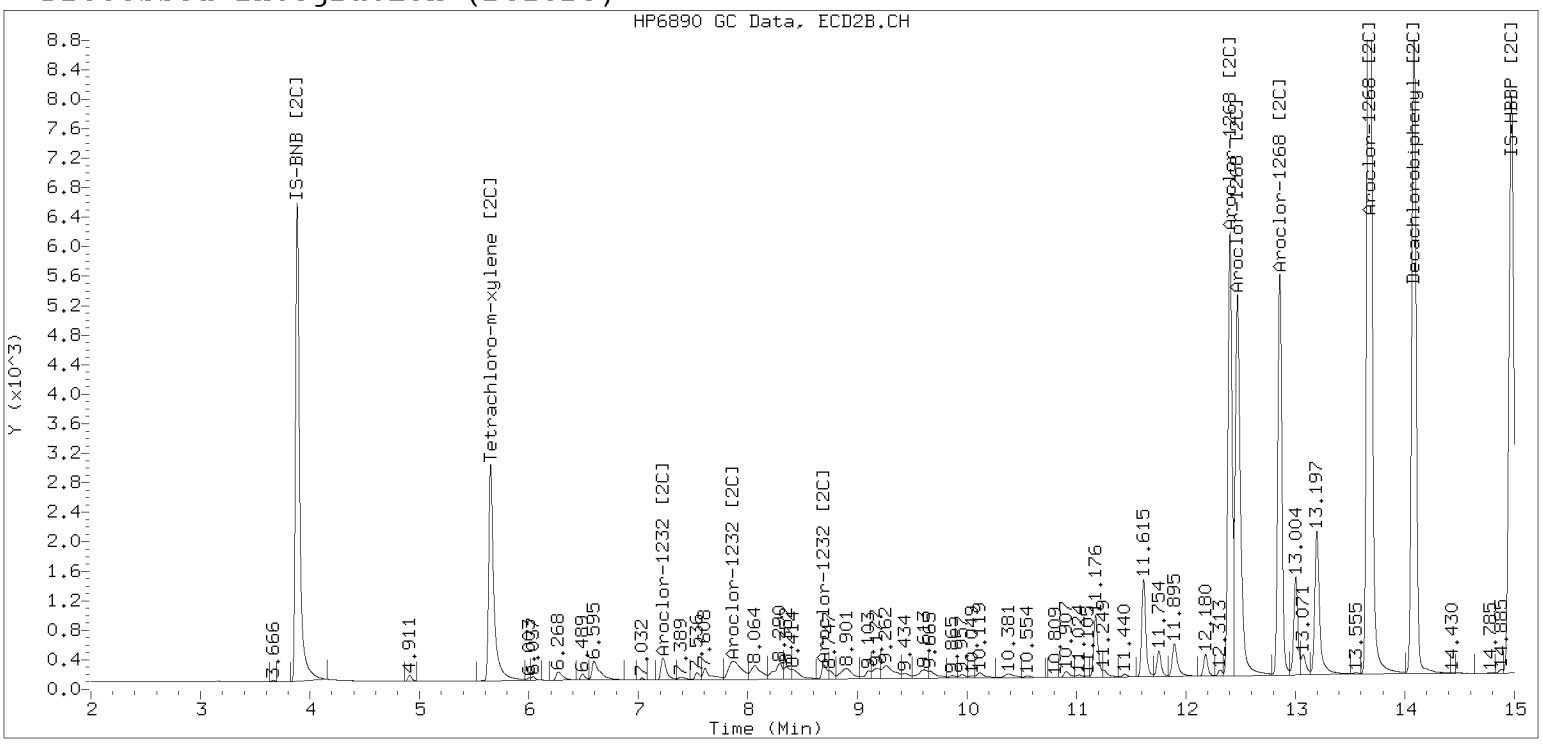
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282314ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282315ECD7.D
Data file 2: /230428.b/230428.b/04282315ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 28-APR-2023 16:09
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	-0.000	328442	5.650	-0.000	184023	37.6	36.1	4.0	Tetrachloro-m-xylene
13.862	0.000	457973	14.083	-0.001	349905	36.6	38.9	6.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	597924	7.5
Hexabromobiphenyl	745660	1154377	54.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	362828	4.1
Hexabromobiphenyl	429949	555238	29.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.236	0.001	58167	251.6	1	7.223	0.002	49868	253.8
Aroclor-1016	2	7.636	0.008	162832	265.6	2	7.853	0.009	102116	262.9
Aroclor-1016	3	7.766	0.003	98114	236.5	3	8.060	0.005	57971	242.6
Aroclor-1016	4	8.378	0.002	55690	257.2	4	8.285	0.005	41472	232.9
Total Col1Ave (4 peaks):					252.7	Total Col2Ave (4 peaks):				248.1 RPD = 2
Corrected Ave (3 peaks):					248.4	Corrected Ave (3 peaks):				243.1 RPD = 2
Aroclor-1221	1	4.683	0.001	327	7.1	1	---			0.0
Aroclor-1221	2	6.092	-0.001	8500	92.6	2	6.279	0.013	4329	75.2
Aroclor-1221	3	6.347	0.001	39437	181.1	3	6.596	0.002	22951	174.3
Total Col1Ave (3 peaks):					93.6	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.683	0.001	327	11.2	1	---			0.0
Aroclor-1232	2	6.092	-0.001	8500	132.0	2	7.223	-0.002	49868	574.1
Aroclor-1232	3	7.636	-0.015	162832	637.9	3	7.853	-0.010	102116	595.7
Aroclor-1232	4	8.559	-0.004	77917	655.3	4	8.690	-0.003	33380	632.3
Total Col1Ave (4 peaks):					359.1	Total Col2Ave (3 peaks):				600.7 RPD = 50*
Corrected Ave (3 peaks):					260.4	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.236	-0.000	58167	311.8	1	7.223	0.001	49868	316.3
Aroclor-1242	2	7.636	-0.002	162832	319.3	2	7.853	-0.006	102116	323.8
Aroclor-1242	3	8.423	0.042	38520	224.6	3	8.690	-0.477	33380	306.1
Aroclor-1242	4	8.559	-0.002	77917	307.0	4	8.889	-0.714	53314	476.2
Total Col1Ave (4 peaks):					290.7	Total Col2Ave (4 peaks):				355.6 RPD = 20
Corrected Ave (3 peaks):					281.1	Corrected Ave (3 peaks):				315.4 RPD = 11
Aroclor-1248	1	8.378	-0.001	55690	192.8	1	8.690	0.406	33380	175.4
Aroclor-1248	2	8.559	-0.000	77917	203.4	2	8.889	0.198	53314	318.2
Aroclor-1248	3	8.966	0.002	73557	64.3	3	9.258	0.095	27563	134.1
Aroclor-1248	4	9.279	0.008	51235	85.3	4	9.431	-0.163	27687	126.3
Total Col1Ave (4 peaks):					136.5	Total Col2Ave (4 peaks):				188.5 RPD = 32
Corrected Ave (3 peaks):					114.1	Corrected Ave (3 peaks):				145.3 RPD = 24
Aroclor-1254	1	9.279	0.004	51235	79.3	1	9.431	0.001	27687	102.1
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.649	0.001	5569	13.6	3	9.953	0.003	2877	13.1
Aroclor-1254	4	9.790	0.001	20622	24.9	4	10.122	0.013	59350	124.8
Aroclor-1254	5	10.094	-0.074	163613	375.2	5	10.345	-0.011	83726	153.2
Total Col1Ave (4 peaks):					123.3	Total Col2Ave (4 peaks):				98.3 RPD = 23
Corrected Ave (3 peaks):					39.3	Corrected Ave (3 peaks):				80.0 RPD = 68*
Aroclor-1260	1	11.018	0.001	162373	249.1	1	11.624	0.000	96769	245.0
Aroclor-1260	2	11.335	0.002	163247	246.9	2	11.893	0.001	269412	259.9
Aroclor-1260	3	11.711	0.001	430555	250.9	3	12.406	-0.001	64881	274.8
Aroclor-1260	4	12.118	0.002	188077	221.1	4	12.476	0.001	182024	257.7
Aroclor-1260	5	12.216	0.000	99127	253.9	NS	---			----
Total Col1Ave (5 peaks):					244.4	Total Col2Ave (4 peaks):				259.3 RPD = 6
Corrected Ave (4 peaks):					242.0	Corrected Ave (3 peaks):				254.2 RPD = 5
Aroclor-1262	1	10.808	-0.000	229421	509.3	1	11.172	-0.001	104566	188.4
Aroclor-1262	2	12.216	-0.000	99127	126.0	2	11.624	0.000	96769	207.0
Aroclor-1262	3	12.292	0.000	123787	143.2	3	12.406	0.002	64881	131.8
Aroclor-1262	4	12.963	0.001	107216	153.7	4	12.476	0.001	182024	213.9
Total Col1Ave (4 peaks):					233.0	Total Col2Ave (4 peaks):				185.3 RPD = 23
Corrected Ave (3 peaks):					141.0	Corrected Ave (3 peaks):				175.7 RPD = 22
Aroclor-1268	1	12.216	-0.002	99127	50.0	1	12.406	0.002	64881	50.6
Aroclor-1268	2	12.292	0.002	123787	60.0	2	12.476	0.005	182024	125.0
Aroclor-1268	3	12.700	0.030	49518	28.9	3	12.859	0.000	4065	3.4
Aroclor-1268	4	13.461	0.000	25958	5.2	4	13.677	-0.000	14756	4.0
Total Col1Ave (4 peaks):					36.0	Total Col2Ave (4 peaks):				45.7 RPD = 24
Corrected Ave (3 peaks):					28.0	Corrected Ave (3 peaks):				19.3 RPD = 37

Total PCB Area Col1 (5.866 - 13.762) = 3921238 Col1 Total PCB = 0.5 ppm*

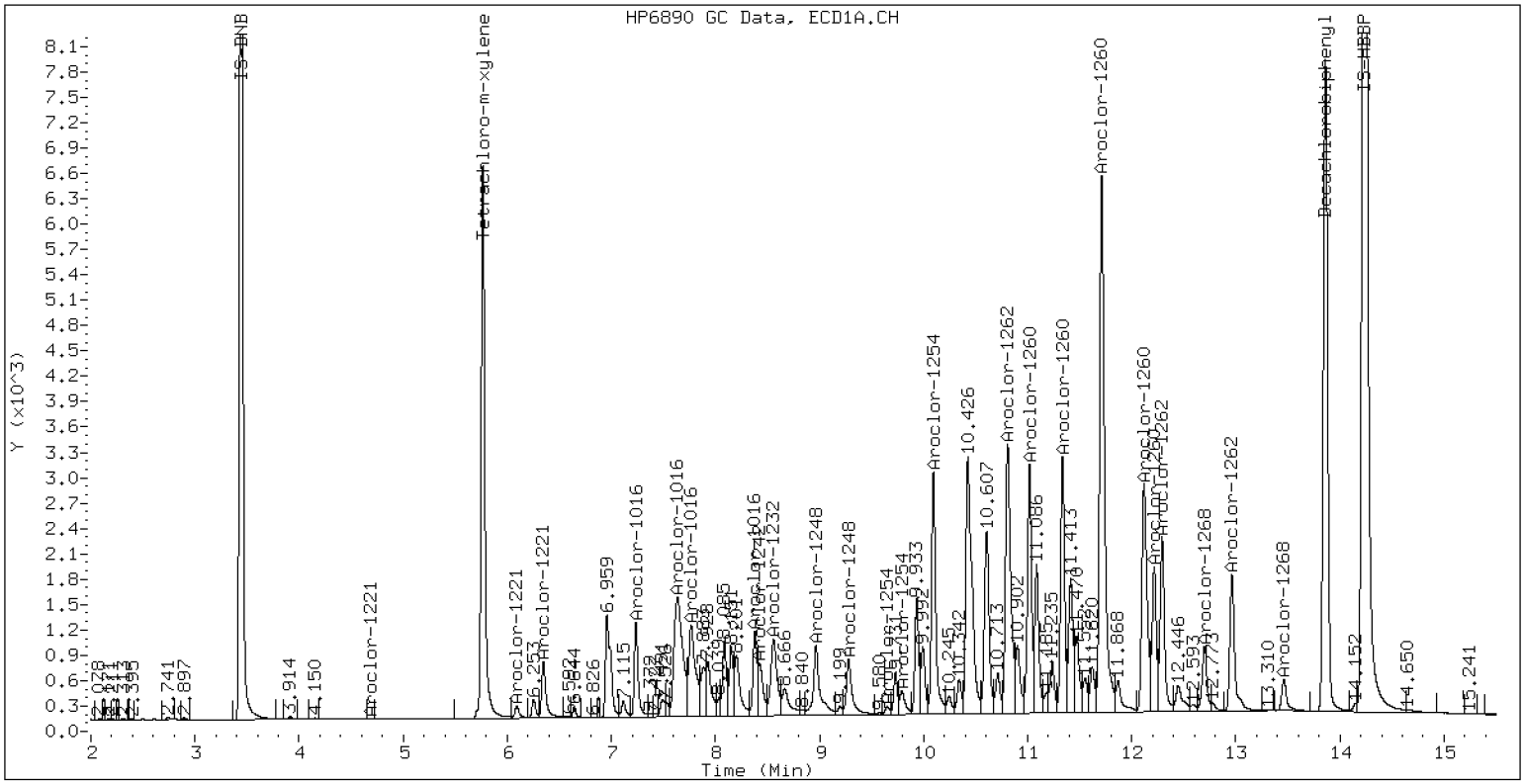
Total PCB Area Col2 (5.751 - 13.984) = 2234032 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

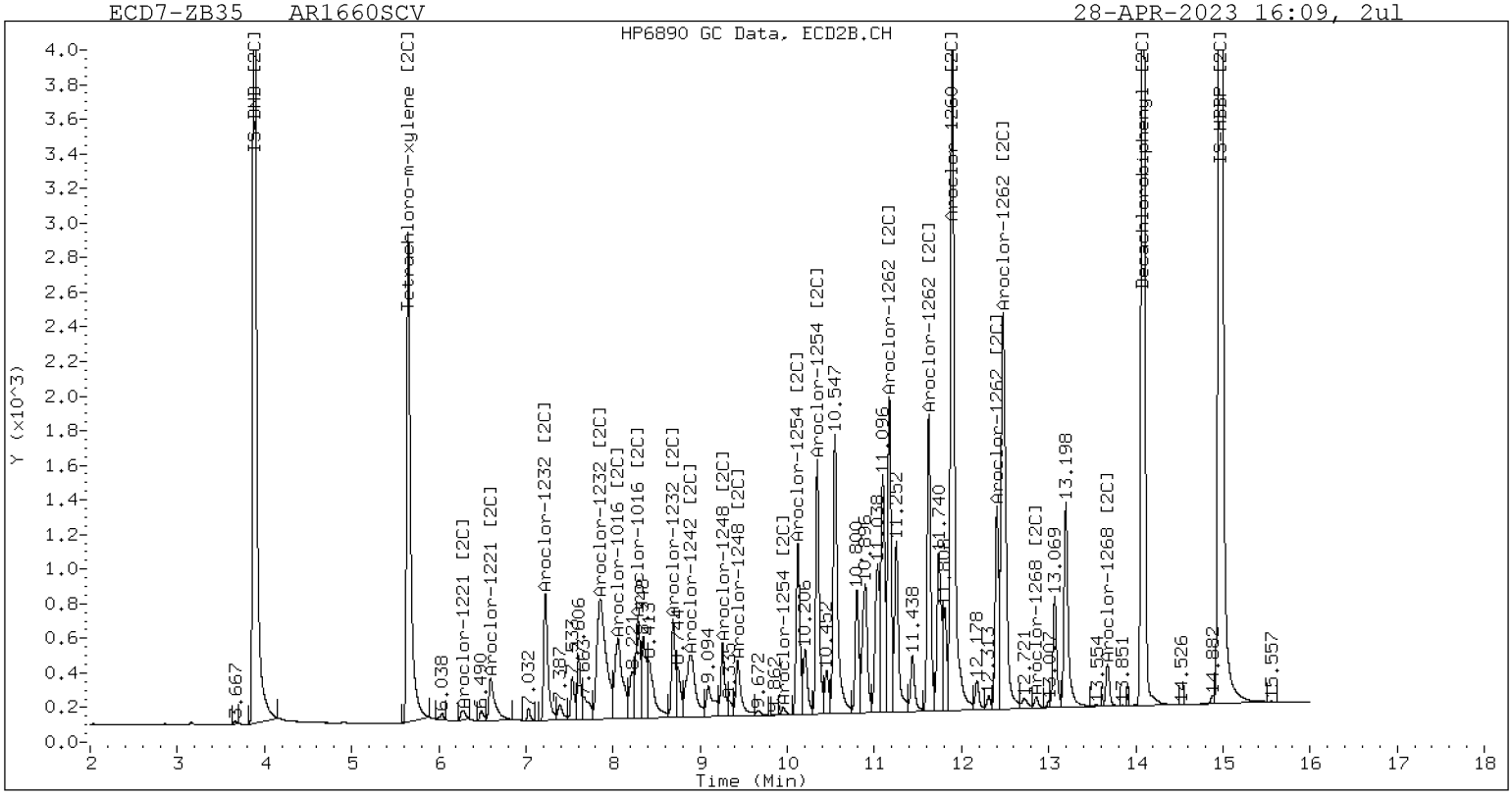
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 28-APR-2023 16:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 28-APR-2023 16:09, 2ul

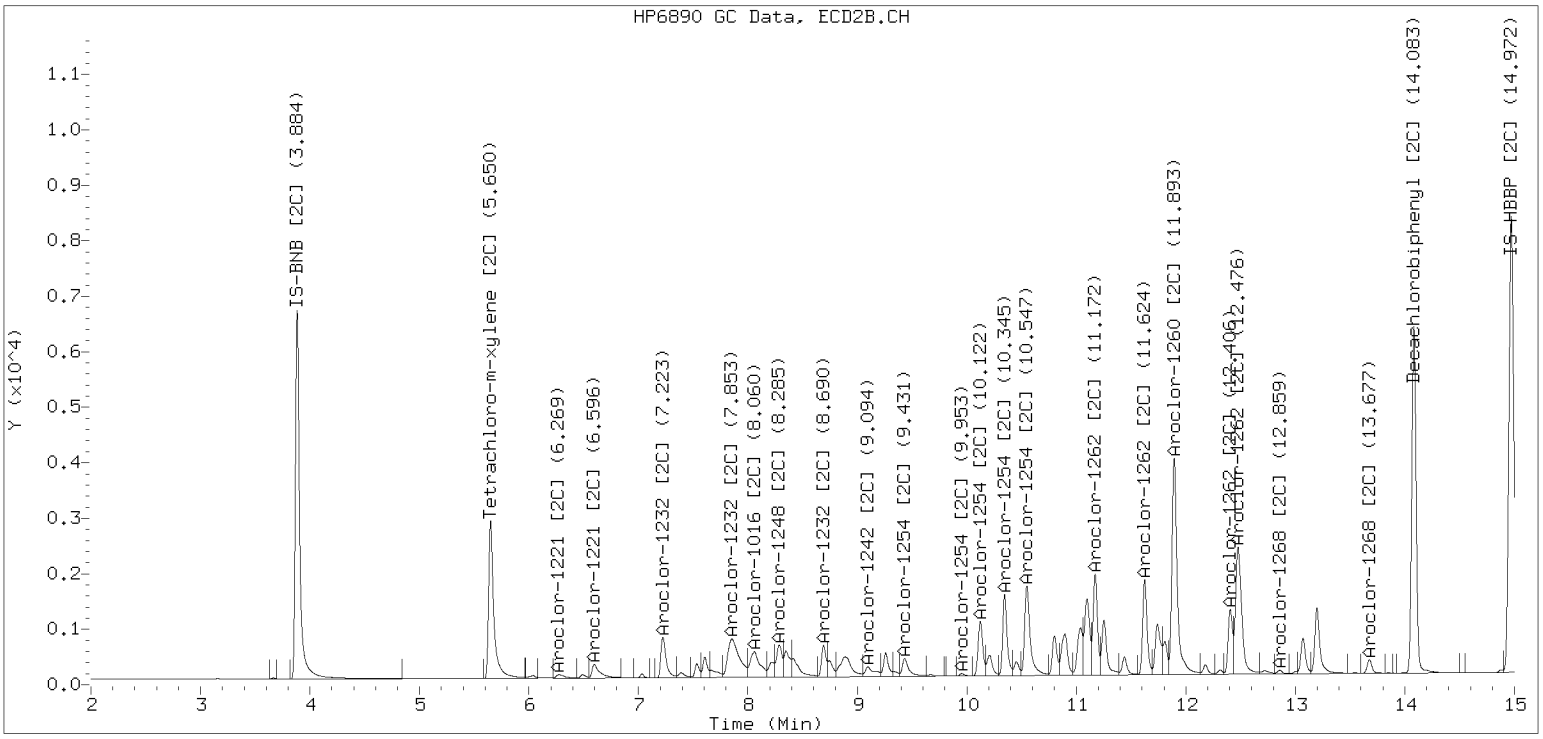


ZB-35 Manual Integration: NO

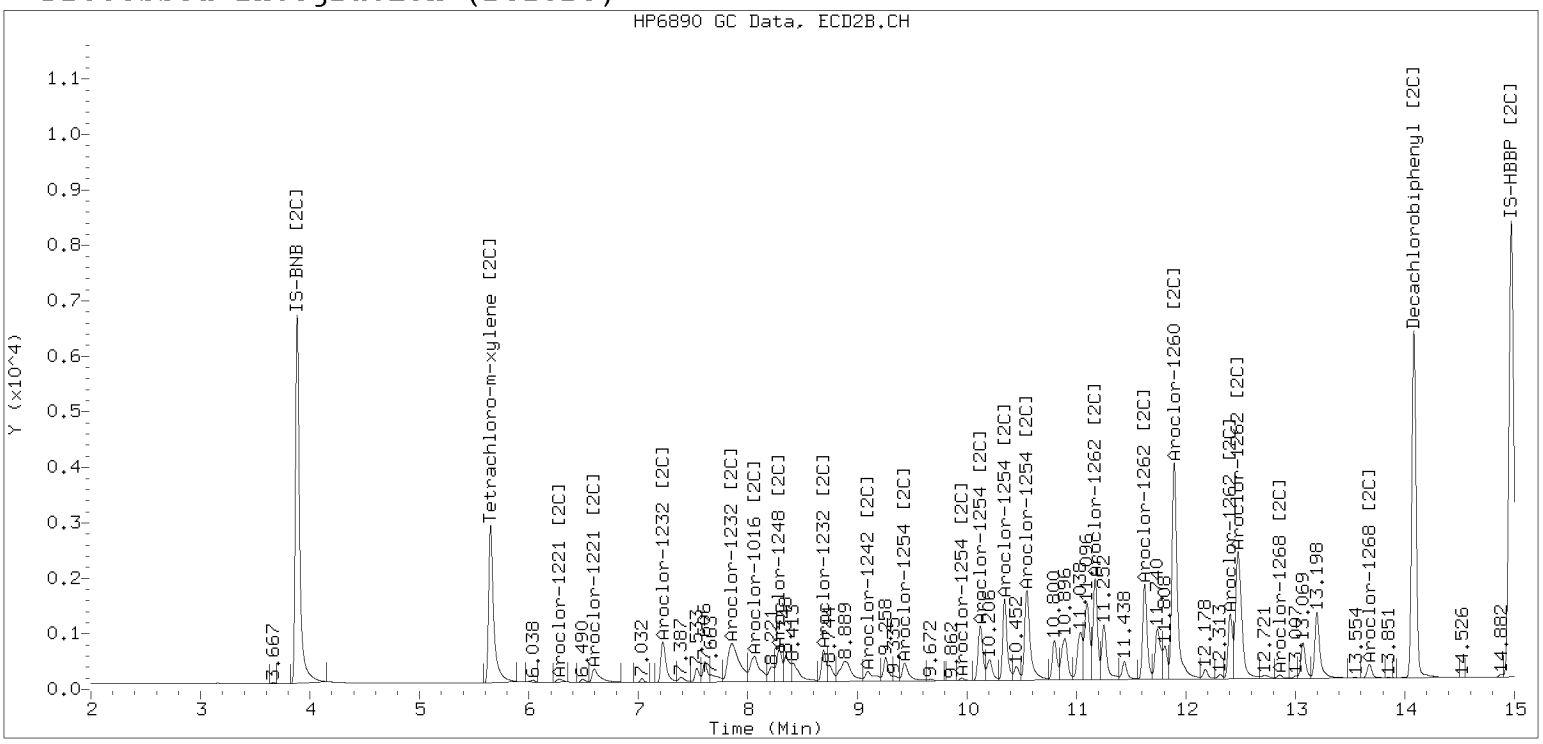
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282315ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282316ECD7.D
Data file 2: /230428.b/230428.b/04282316ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 28-APR-2023 16:30
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	292500	5.650	-0.001	164326	33.9	32.6	3.7	Tetrachloro-m-xylene
13.864	0.002	517644	14.083	-0.001	393716	40.7	43.6	6.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	591263	6.3
Hexabromobiphenyl	745660	1174114	57.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	358789	3.0
Hexabromobiphenyl	429949	558275	29.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.001	42869	187.5	1	7.224	0.002	36830	189.5
Aroclor-1016	2	7.642	0.014	116563	192.3	2	7.859	0.015	74679	194.4
Aroclor-1016	3	7.767	0.004	72620	177.0	3	8.061	0.007	42627	180.4
Aroclor-1016	4	8.381	0.005	41808	195.2	4	8.287	0.006	31937	181.4
Total Col1Ave (4 peaks):		188.0				Total Col2Ave (4 peaks):		186.4	RPD = 1	
Corrected Ave (3 peaks):		185.6				Corrected Ave (3 peaks):		183.8	RPD = 1	
Aroclor-1221	1	4.687	0.005	261	5.8	1	---			0.0
Aroclor-1221	2	6.092	-0.002	5439	59.9	2	6.288	0.022	3034	53.3
Aroclor-1221	3	6.348	0.002	27795	129.1	3	6.597	0.003	16171	124.2
Total Col1Ave (3 peaks):		64.9				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.687	0.004	261	9.1	1	---			0.0
Aroclor-1232	2	6.092	-0.002	5439	85.4	2	7.224	-0.001	36830	428.8
Aroclor-1232	3	7.642	-0.009	116563	461.7	3	7.859	-0.003	74679	440.5
Aroclor-1232	4	8.560	-0.004	60506	514.6	4	8.693	-0.001	25516	488.8
Total Col1Ave (4 peaks):		267.7				Total Col2Ave (3 peaks):		452.7	RPD = 51*	
Corrected Ave (3 peaks):		185.4				Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.237	0.000	42869	232.4	1	7.224	0.002	36830	236.3
Aroclor-1242	2	7.642	0.003	116563	231.1	2	7.859	0.001	74679	239.5
Aroclor-1242	3	8.381	-0.000	41808	246.5	3	9.173	0.005	27704	256.9
Aroclor-1242	4	8.560	-0.001	60506	241.1	4	9.602	-0.001	29247	264.2
Total Col1Ave (4 peaks):		237.8				Total Col2Ave (4 peaks):		249.2	RPD = 5	
Corrected Ave (3 peaks):		234.9				Corrected Ave (3 peaks):		244.2	RPD = 4	
Aroclor-1248	1	8.381	0.002	41808	146.4	1	8.693	0.408	25516	135.6
Aroclor-1248	2	8.560	0.000	60506	159.7	2	8.890	0.199	41427	250.0
Aroclor-1248	3	8.967	0.003	153088	135.4	3	9.258	0.094	51085	251.4
Aroclor-1248	4	9.276	0.004	79463	133.8	4	9.433	-0.160	16032	74.0
Total Col1Ave (4 peaks):		143.8				Total Col2Ave (4 peaks):		177.7	RPD = 21	
Corrected Ave (3 peaks):		138.5				Corrected Ave (3 peaks):		153.2	RPD = 10	
Aroclor-1254	1	9.276	-0.000	79463	124.4	1	9.433	0.004	16032	59.8
Aroclor-1254	2	9.354	-0.004	29048	96.0	2	9.602	0.074	29247	178.9
Aroclor-1254	3	9.654	0.006	18218	45.1	3	9.955	0.005	10890	50.2
Aroclor-1254	4	9.799	0.009	31107	37.9	4	10.114	0.004	21158	45.0
Aroclor-1254	5	10.188	0.019	22524	52.2	5	10.380	0.024	20273	37.5
Total Col1Ave (5 peaks):		71.1				Total Col2Ave (5 peaks):		74.3	RPD = 4	
Corrected Ave (4 peaks):		57.8				Corrected Ave (4 peaks):		48.1	RPD = 18	
Aroclor-1260	1	11.022	0.005	1107	1.7	1	11.645	0.021	2082	5.2
Aroclor-1260	2	11.341	0.007	839	1.2	2	11.903	0.011	1433	1.4
Aroclor-1260	3	11.721	0.011	1240	0.7	3	12.477	0.071	1326	5.6
Aroclor-1260	4	12.127	0.011	1362	1.6	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks):		1.3				Total Col2Ave (3 peaks):		4.1	RPD = 103*	
Corrected Ave (3 peaks):		1.2				Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.818	0.009	16810	36.7	1	11.105	-0.068	10045	18.0
Aroclor-1262	2	12.127	-0.090	1362	1.7	2	11.645	0.021	2082	4.4
Aroclor-1262	3	12.308	0.016	110	0.1	3	12.477	0.074	1326	2.7
Aroclor-1262	4	13.018	0.056	1070	1.5	4	---			0.0
Total Col1Ave (4 peaks):		10.0				Total Col2Ave (3 peaks):		8.4	RPD = 18	
Corrected Ave (3 peaks):		1.1				Corrected Ave: < 3 Peaks				
Aroclor-1268	1	12.308	0.090	110	0.1	1	12.477	0.074	1326	1.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.671	0.001	2482	1.4	3	12.861	0.003	1233	1.0
Aroclor-1268	4	13.468	0.007	10976	2.2	4	13.676	-0.000	2739	0.7
Total Col1Ave (3 peaks):		1.2				Total Col2Ave (3 peaks):		0.9	RPD = 27	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 1193104 Col1 Total PCB = 0.2 ppm*

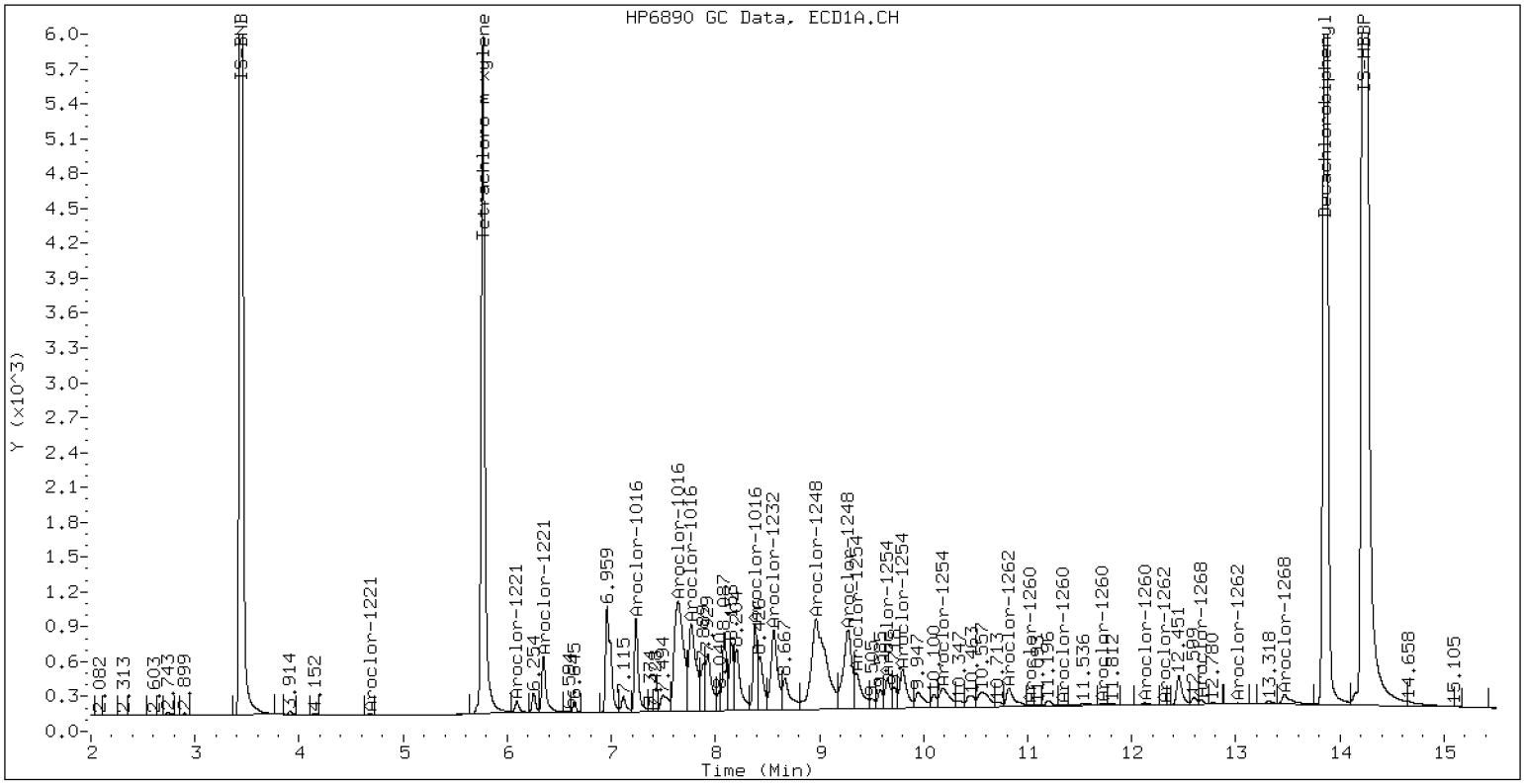
Total PCB Area Col2 (5.751 - 13.984) = 682890 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

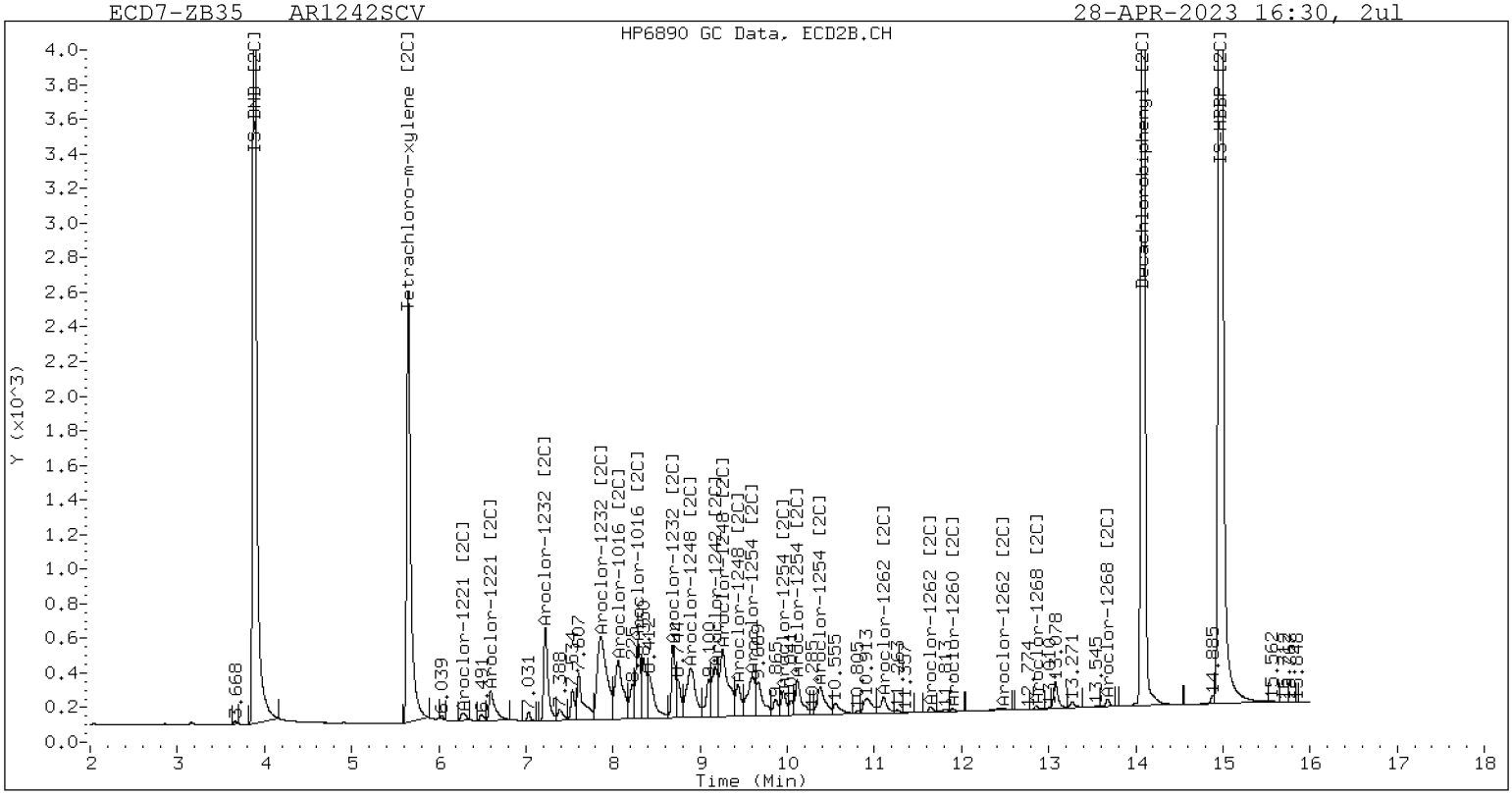
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 28-APR-2023 16:30, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242SCV 28-APR-2023 16:30, 2ul

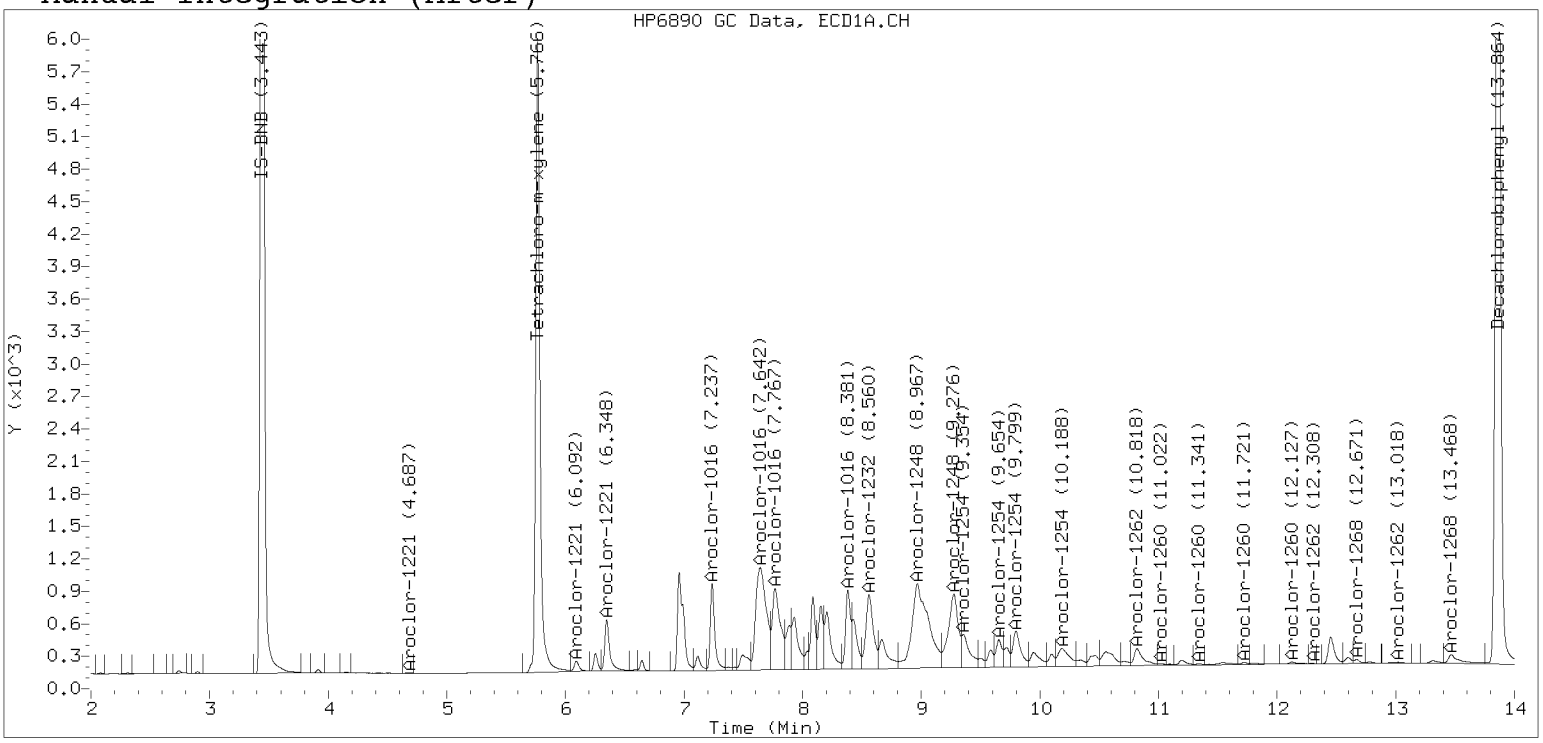


ZB-35 Manual Integration: YES

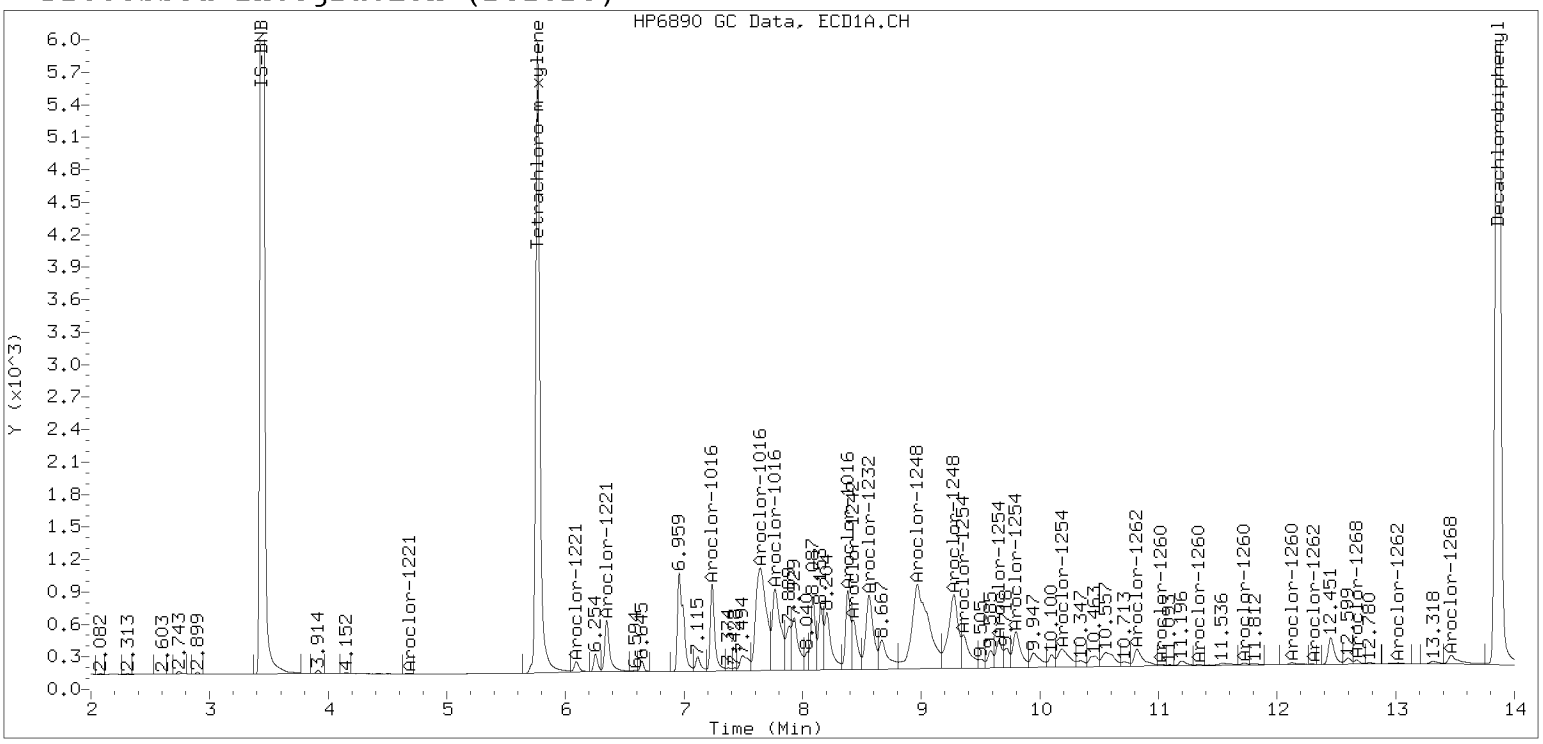
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282316ECD7.D Injection Date: 28-APR-2023 16:30

Manual Integration (After)



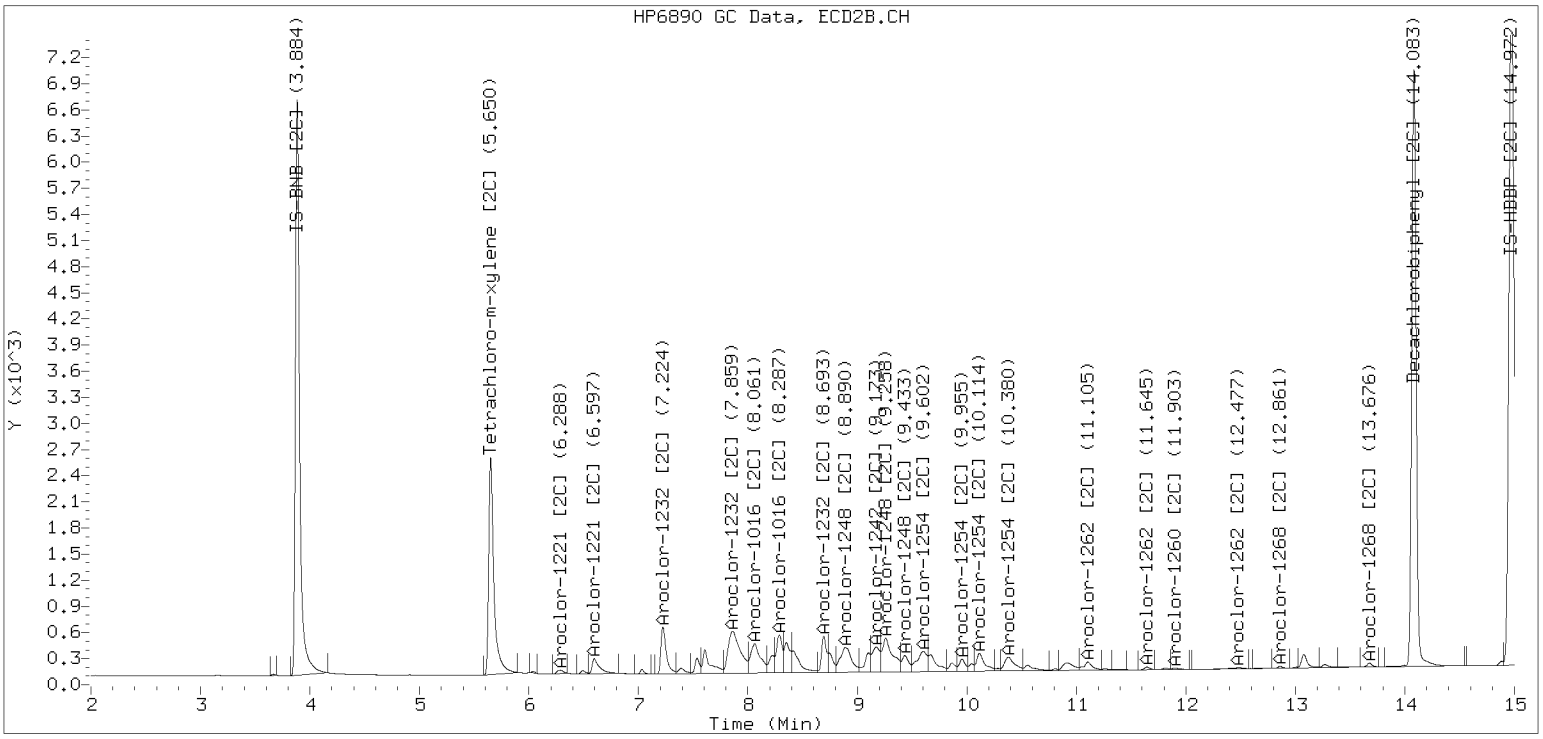
Processed Integration (Before)



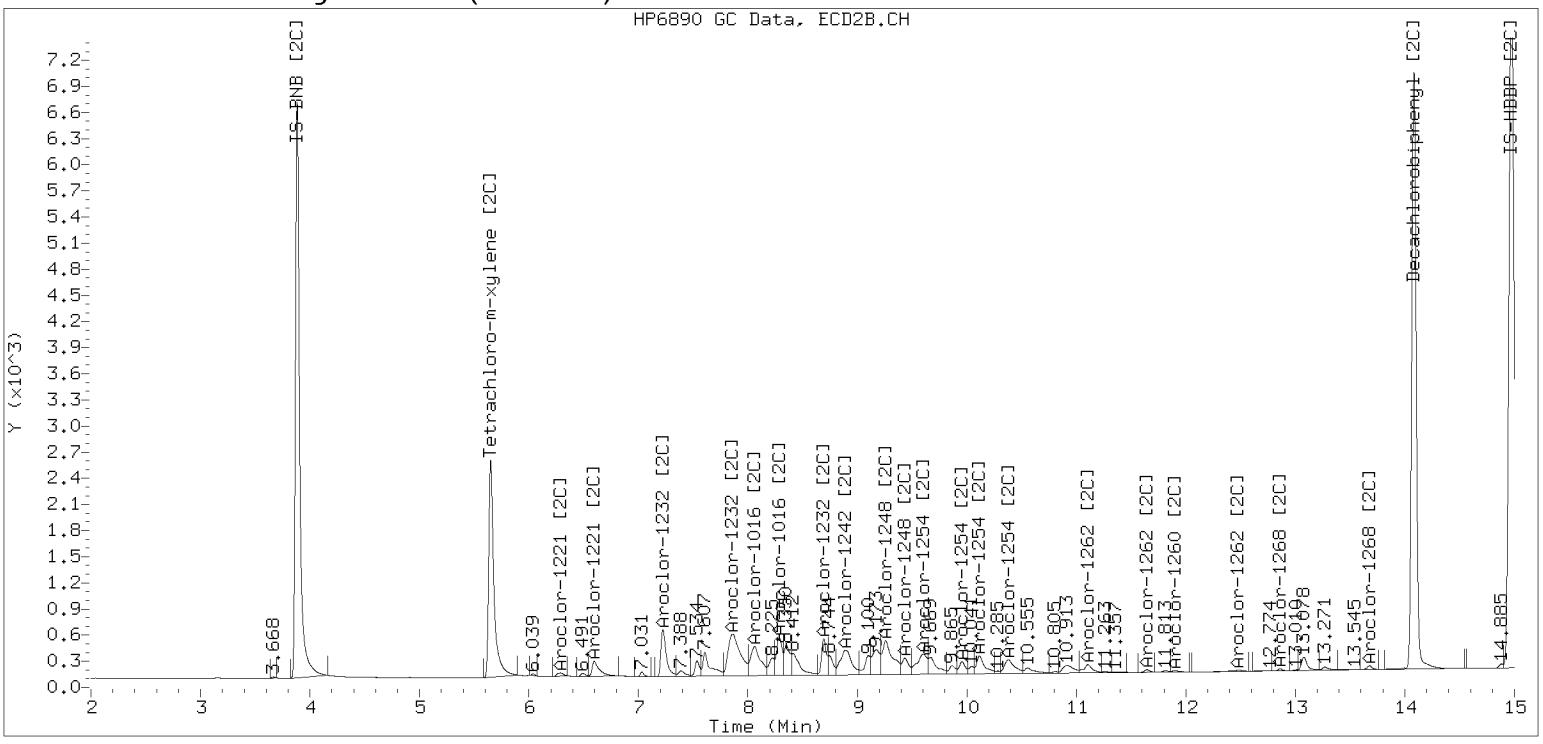
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282316ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282317ECD7.D
Data file 2: /230428.b/230428.b/04282317ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 28-APR-2023 16:51
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	329945	5.650	-0.001	187741	37.4	36.7	1.8	Tetrachloro-m-xylene
13.863	0.002	459099	14.084	0.000	349285	34.9	38.0	8.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	604265	8.6
Hexabromobiphenyl	745660	1214161	62.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	364434	4.6
Hexabromobiphenyl	429949	568134	32.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	19001	81.3	1	7.223	0.002	18808	95.3
Aroclor-1016	2	7.640	0.012	74331	120.0	2	7.860	0.016	45610	116.9
Aroclor-1016	3	7.763	0.000	48390	115.4	3	8.066	0.011	19913	83.0
Aroclor-1016	4	8.380	0.004	75928	347.0	4	8.285	0.004	48388	270.6
Total Col1Ave (4 peaks):		165.9				Total Col2Ave (4 peaks):		141.4	RPD = 16	
Corrected Ave (3 peaks):		105.6				Corrected Ave (3 peaks):		98.4	RPD = 7	
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.088	-0.005	1143	12.3	2	6.298	0.033	1993	34.5
Aroclor-1221	3	6.349	0.002	3172	14.4	3	6.608	0.014	1326	10.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.088	-0.005	1143	17.6	2	7.223	-0.002	18808	215.6
Aroclor-1232	3	7.640	-0.012	74331	288.1	3	7.860	-0.003	45610	264.9
Aroclor-1232	4	8.559	-0.004	98972	823.6	4	8.691	-0.002	42787	807.0
Total Col1Ave (3 peaks):		376.4				Total Col2Ave (3 peaks):		429.1	RPD = 13	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.237	0.001	19001	100.8	1	7.223	0.001	18808	118.8
Aroclor-1242	2	7.640	0.001	74331	144.2	2	7.860	0.001	45610	144.0
Aroclor-1242	3	8.380	-0.001	75928	438.1	3	8.691	-0.476	42787	390.6
Aroclor-1242	4	8.559	-0.001	98972	385.9	4	8.885	-0.718	60719	540.0
Total Col1Ave (4 peaks):		267.2				Total Col2Ave (4 peaks):		298.3	RPD = 11	
Corrected Ave (3 peaks):		210.3				Corrected Ave (3 peaks):		217.8	RPD = 4	
Aroclor-1248	1	8.380	0.002	75928	260.1	1	8.285	0.000	48388	253.1
Aroclor-1248	2	8.559	0.000	98972	255.7	2	8.691	0.000	42787	254.2
Aroclor-1248	3	8.963	-0.001	294362	254.8	3	9.165	0.001	53988	261.5
Aroclor-1248	4	9.271	0.000	156668	258.2	4	9.587	-0.007	55820	253.5
Total Col1Ave (4 peaks):		257.2				Total Col2Ave (4 peaks):		255.6	RPD = 1	
Corrected Ave (3 peaks):		256.2				Corrected Ave (3 peaks):		253.6	RPD = 1	
Aroclor-1254	1	9.271	-0.004	156668	240.0	1	9.430	0.001	28754	105.5
Aroclor-1254	2	9.355	-0.004	60054	194.1	2	9.587	0.059	55820	336.1
Aroclor-1254	3	9.651	0.003	41060	99.5	3	9.952	0.002	23054	104.5
Aroclor-1254	4	9.793	0.004	73186	87.3	4	10.109	-0.001	44343	92.9
Aroclor-1254	5	10.182	0.013	49460	112.2	5	10.379	0.023	41423	75.5
Total Col1Ave (5 peaks):		146.6				Total Col2Ave (5 peaks):		142.9	RPD = 3	
Corrected Ave (4 peaks):		123.3				Corrected Ave (4 peaks):		94.6	RPD = 26	
Aroclor-1260	1	11.026	0.009	2009	2.9	1	11.643	0.019	2501	6.2
Aroclor-1260	2	11.340	0.006	1228	1.8	2	11.901	0.009	2130	2.0
Aroclor-1260	3	11.721	0.011	1976	1.1	3	12.414	0.007	826	3.4
Aroclor-1260	4	12.127	0.011	1326	1.5	4	12.479	0.004	1478	2.0
Aroclor-1260	5	12.220	0.004	573	1.4	NS	---			----
Total Col1Ave (5 peaks):		1.7				Total Col2Ave (4 peaks):		3.4	RPD = 65*	
Corrected Ave (4 peaks):		1.4				Corrected Ave (3 peaks):		2.5	RPD = 54*	
Aroclor-1262	1	10.818	0.009	19667	41.5	1	11.104	-0.069	9341	16.4
Aroclor-1262	2	12.220	0.003	573	0.7	2	11.643	0.019	2501	5.2
Aroclor-1262	3	12.296	0.004	674	0.7	3	12.414	0.010	826	1.6
Aroclor-1262	4	12.967	0.005	1383	1.9	4	12.479	0.004	1478	1.7
Total Col1Ave (4 peaks):		11.2				Total Col2Ave (4 peaks):		6.3	RPD = 57*	
Corrected Ave (3 peaks):		1.1				Corrected Ave (3 peaks):		2.9	RPD = 88*	
Aroclor-1268	1	12.220	0.002	573	0.3	1	12.414	0.011	826	0.6
Aroclor-1268	2	12.296	0.005	674	0.3	2	12.479	0.008	1478	1.0
Aroclor-1268	3	12.671	0.002	2312	1.3	3	12.861	0.002	1020	0.8
Aroclor-1268	4	13.469	0.008	7516	1.4	4	13.678	0.001	2531	0.7
Total Col1Ave (4 peaks):		0.8				Total Col2Ave (4 peaks):		0.8	RPD = 6	
Corrected Ave (3 peaks):		0.6				Corrected Ave (3 peaks):		0.7	RPD = 13	

Total PCB Area Col1 (5.866 - 13.762) = 1600602 Col1 Total PCB = 0.2 ppm*

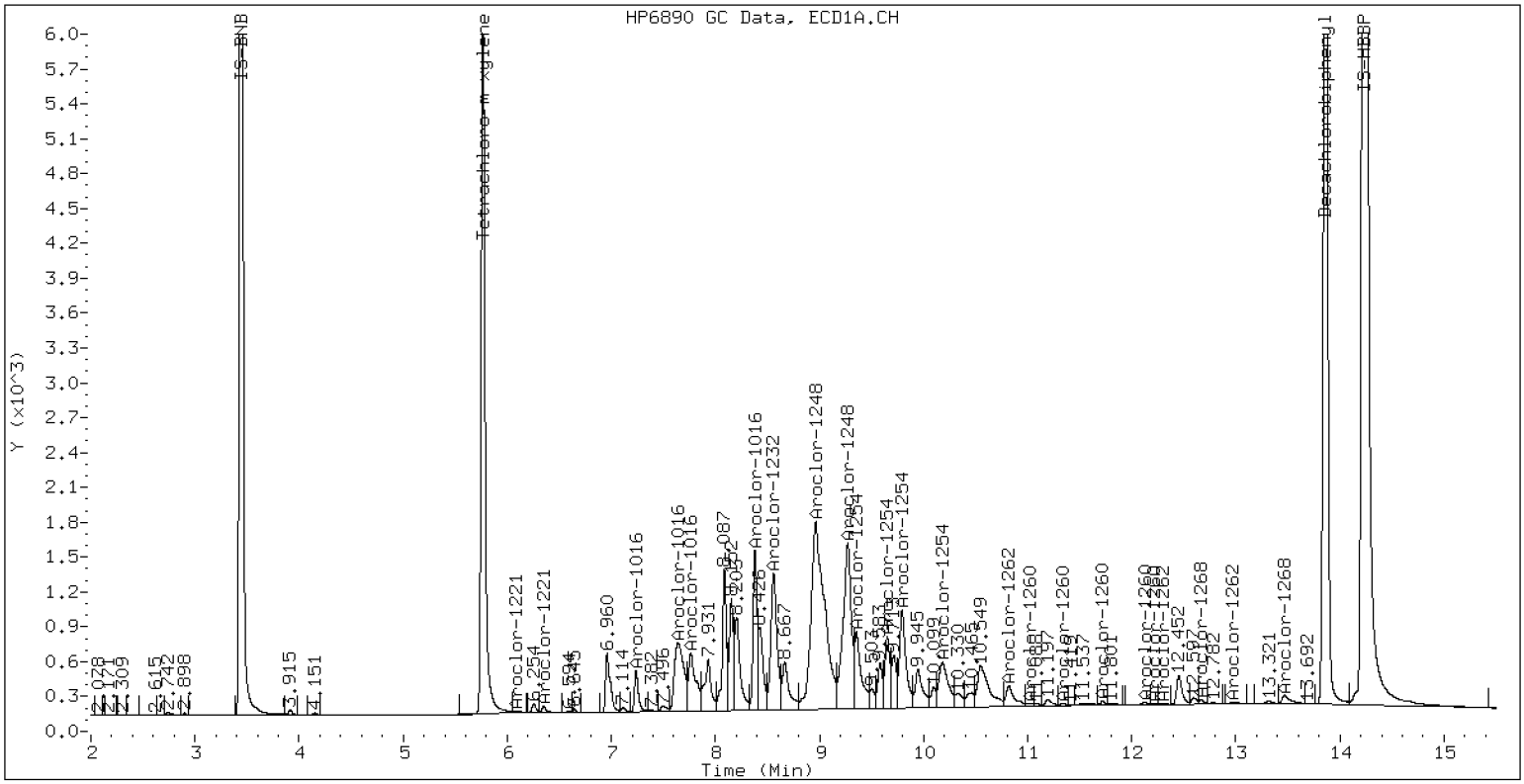
Total PCB Area Col2 (5.751 - 13.984) = 860562 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

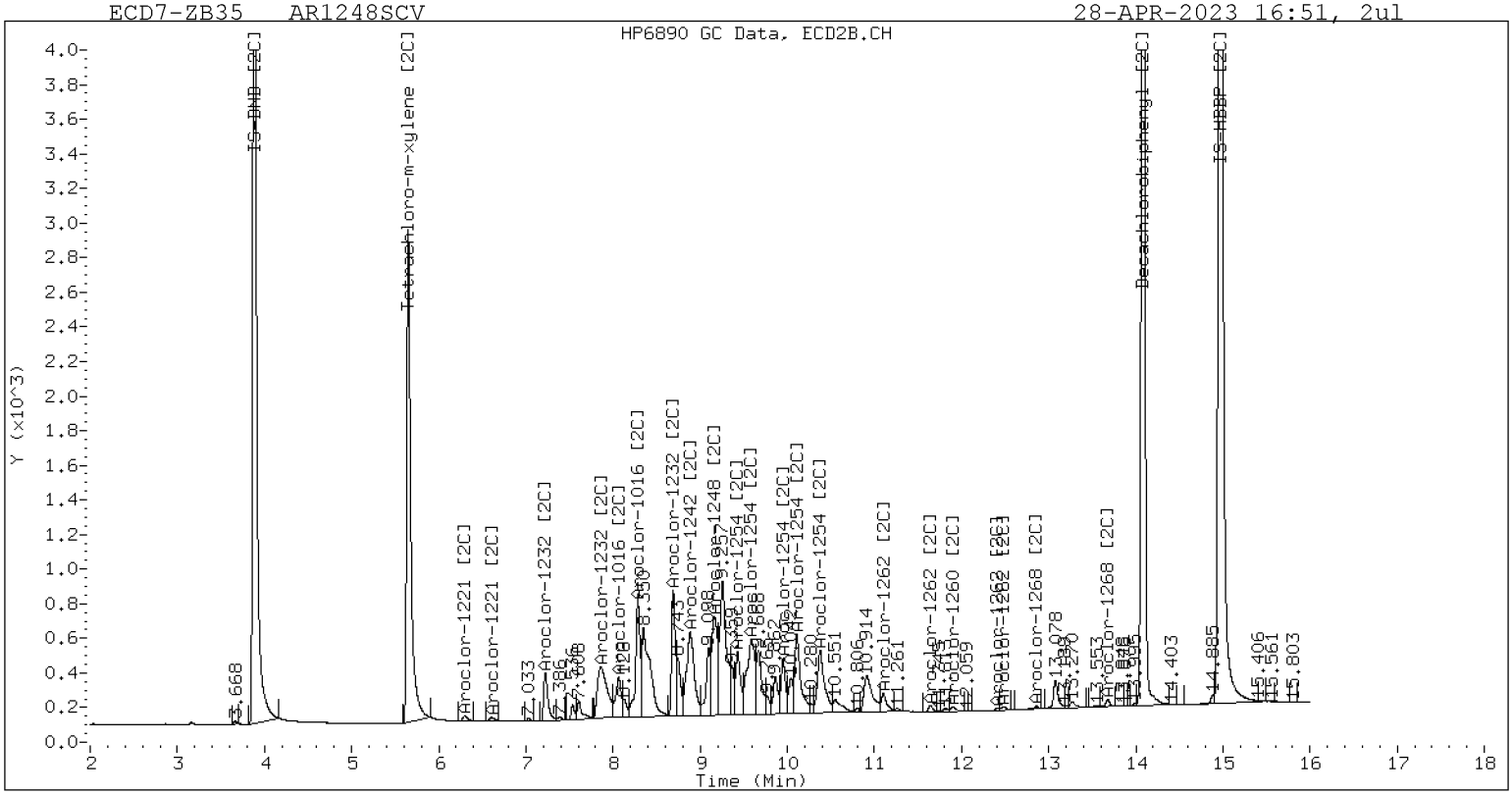
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 28-APR-2023 16:51, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248SCV 28-APR-2023 16:51, 2ul

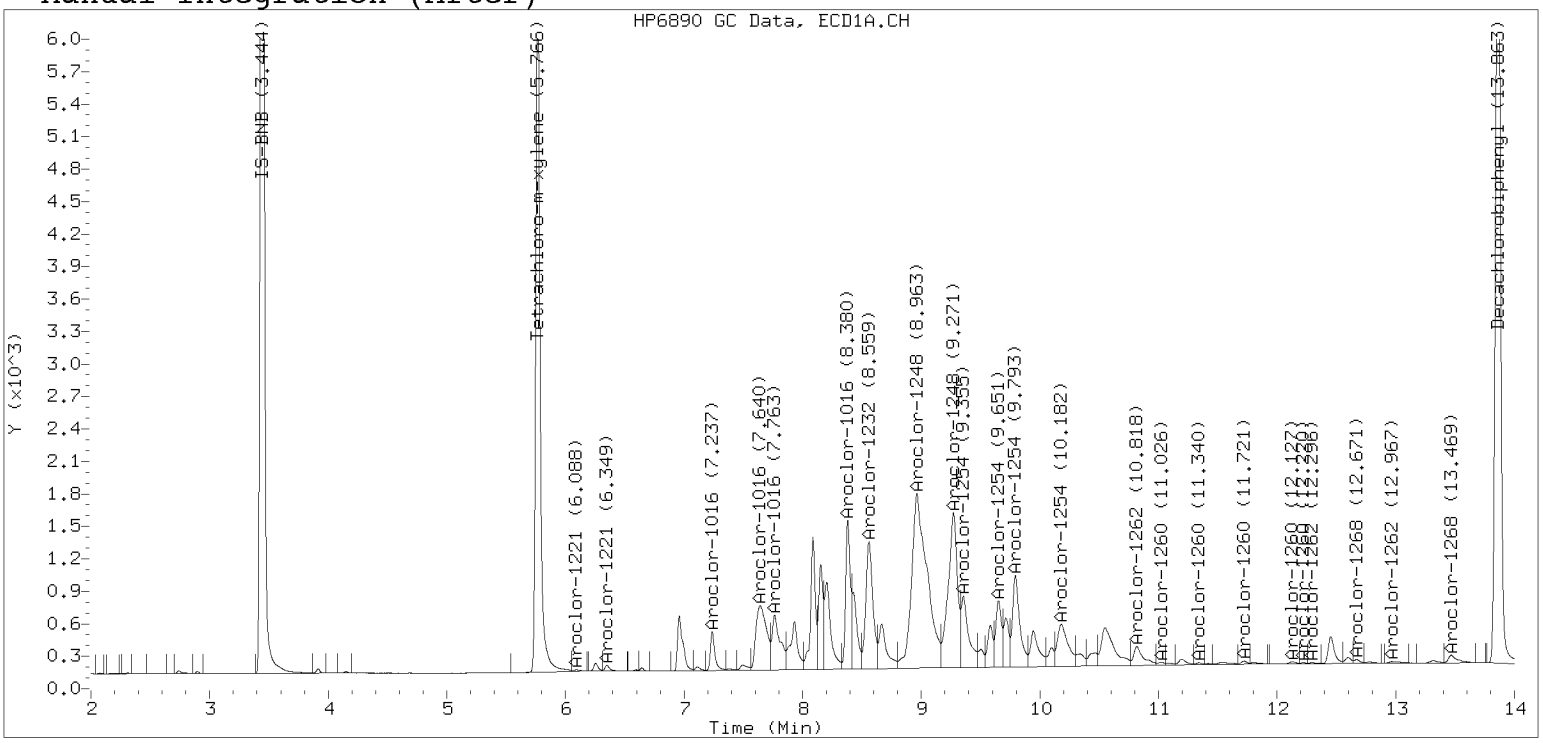


ZB-35 Manual Integration: YES

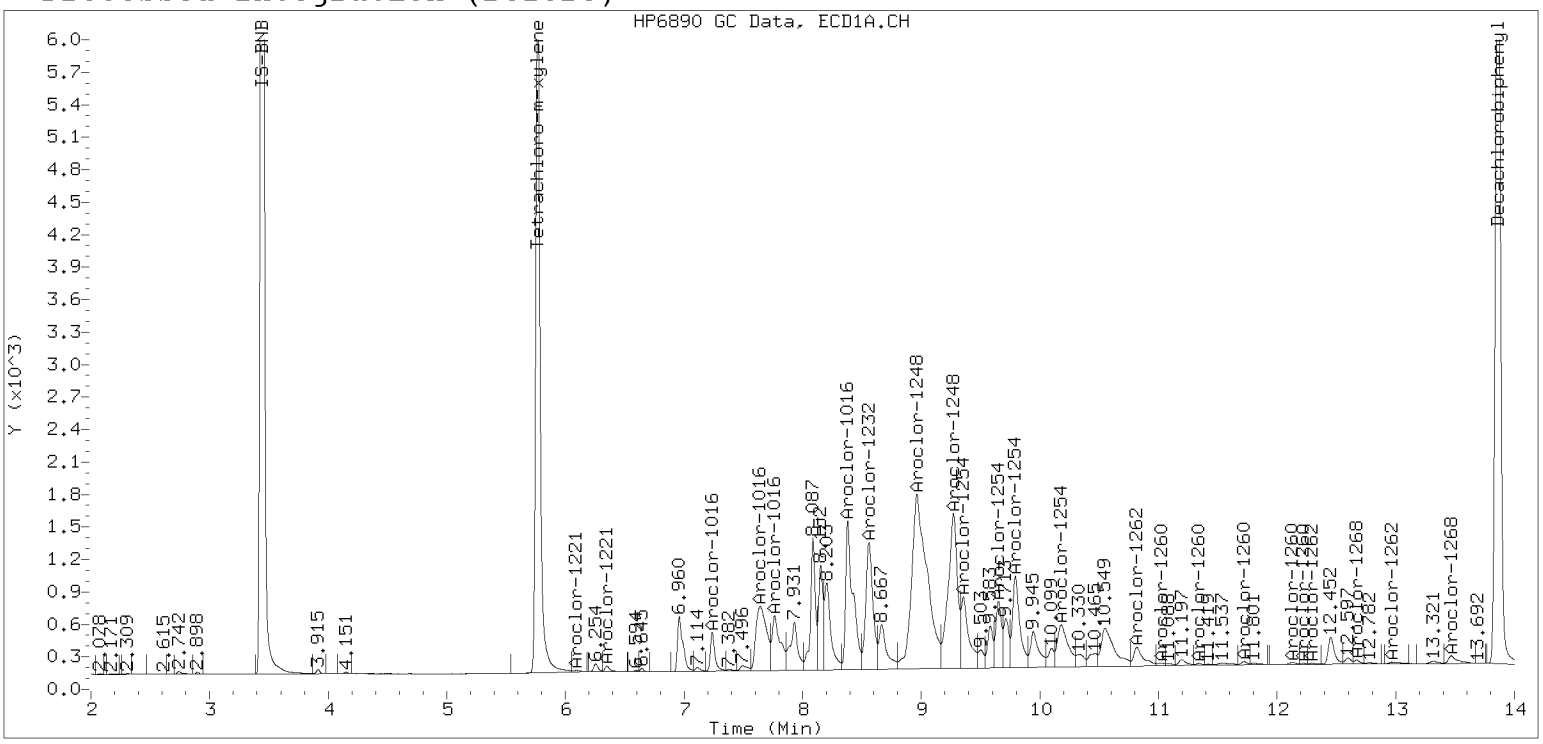
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282317ECD7.D Injection Date: 28-APR-2023 16:51

Manual Integration (After)



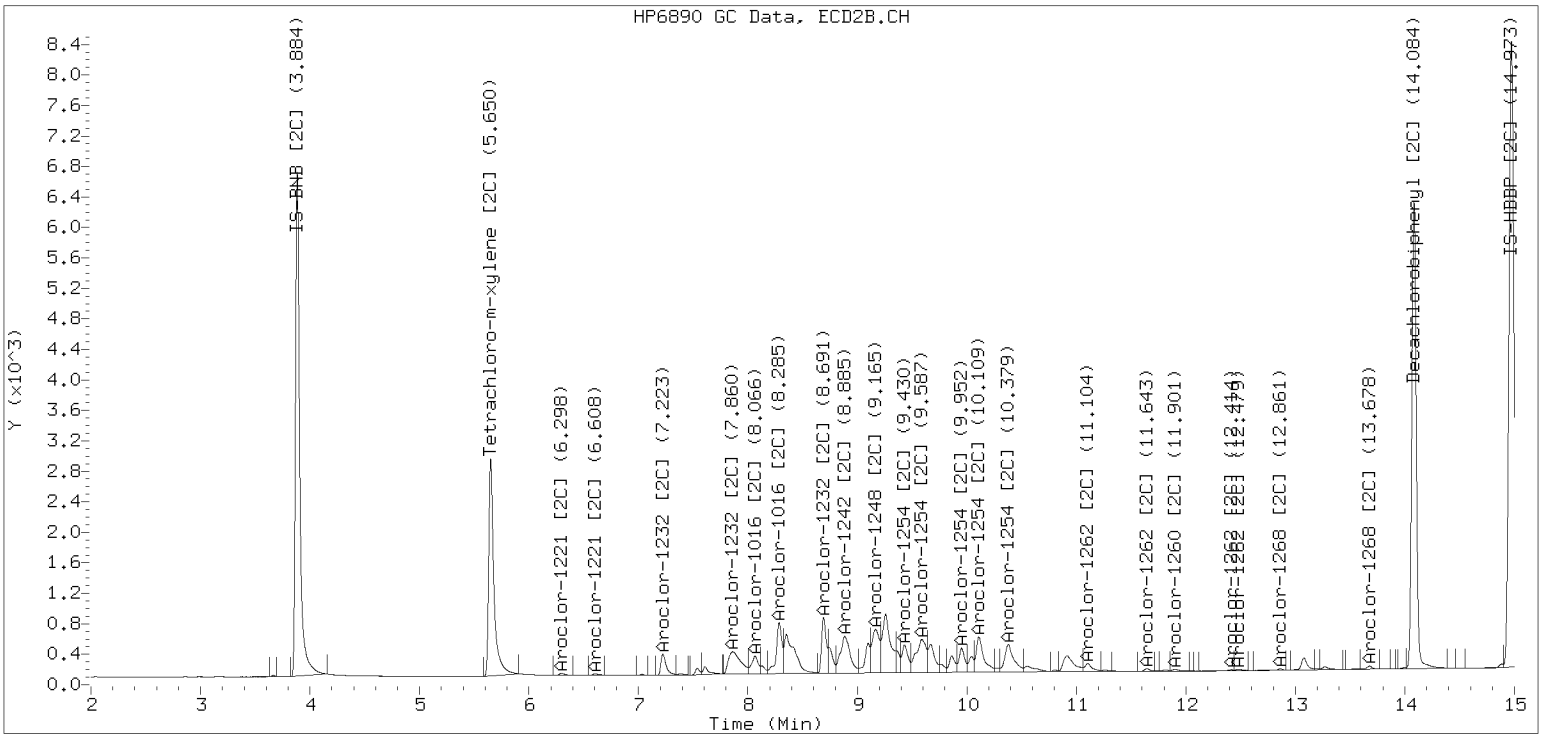
Processed Integration (Before)



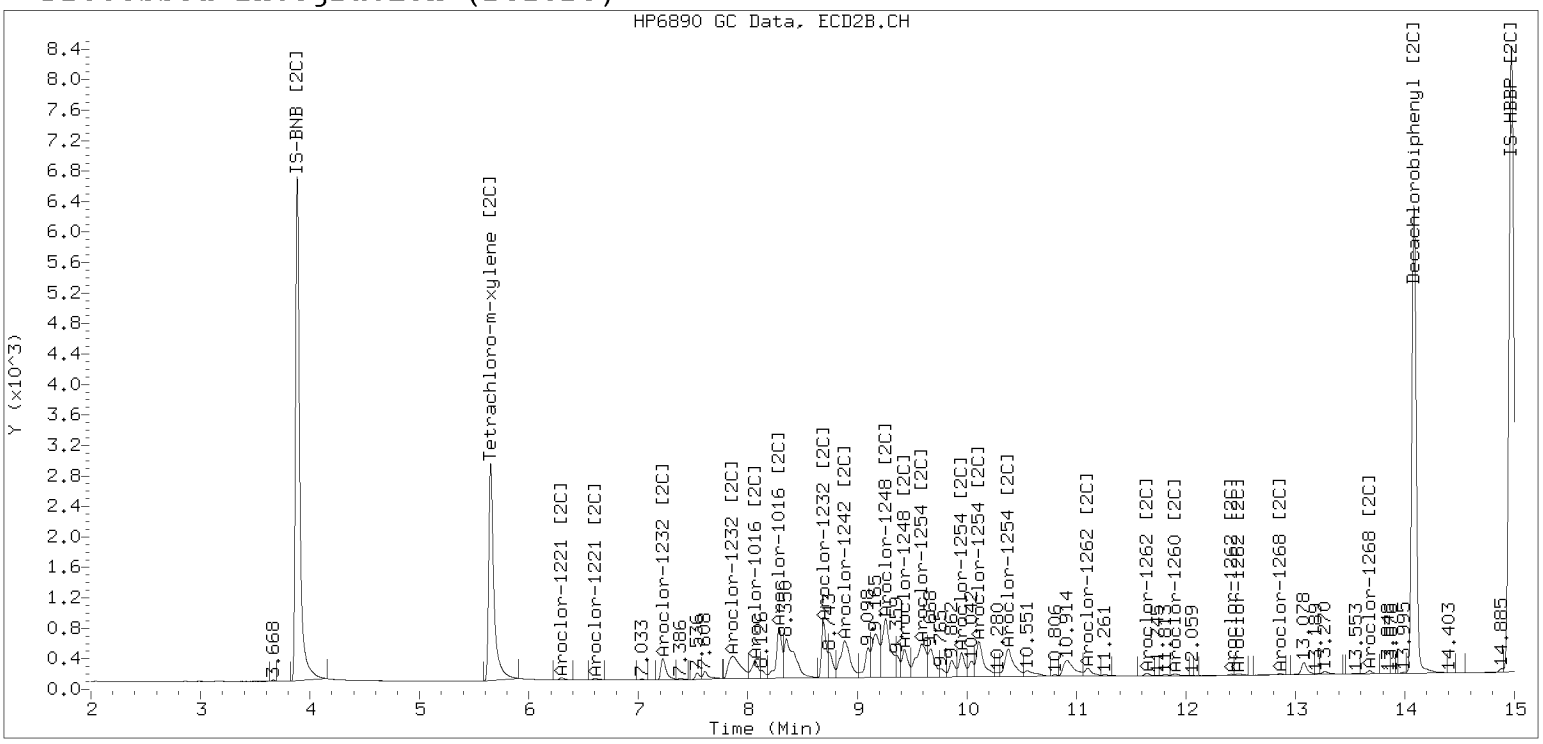
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282317ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282318ECD7.D
Data file 2: /230428.b/230428.b/04282318ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 28-APR-2023 17:12
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	338365	5.650	-0.001	190789	38.3	37.3	2.7	Tetrachloro-m-xylene
13.863	0.001	478757	14.083	-0.001	359021	34.8	38.3	9.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	604006	8.6
Hexabromobiphenyl	745660	1269568	70.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	364366	4.6
Hexabromobiphenyl	429949	578129	34.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.239	0.004	417	1.8	1	7.234	0.013	203	1.0
Aroclor-1016	2	7.672	0.044	1503	2.4	2	---			0.0
Aroclor-1016	3	7.760	-0.003	1975	4.7	3	8.071	0.016	434	1.8
Aroclor-1016	4	8.383	0.006	29140	133.2	4	8.285	0.004	22382	125.2
	Total Col1Ave (4 peaks):				35.5	Total Col2Ave (3 peaks):				42.7 RPD = 18
	Corrected Ave (3 peaks):				3.0	Corrected Ave: < 3 Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.297	0.032	1765	30.5
Aroclor-1221	3	---			0.0	3	6.613	0.019	308	2.3
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.234	0.010	203	2.3
Aroclor-1232	3	7.672	0.020	1503	5.8	3	---			0.0
Aroclor-1232	4	8.568	0.004	12422	103.4	4	8.695	0.001	16356	308.5
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	7.239	0.002	417	2.2	1	7.234	0.012	203	1.3
Aroclor-1242	2	7.672	0.033	1503	2.9	2	---			0.0
Aroclor-1242	3	8.383	0.001	29140	168.2	3	8.695	-0.473	16356	149.3
Aroclor-1242	4	8.568	0.007	12422	48.5	4	8.889	-0.714	7125	63.4
	Total Col1Ave (4 peaks):				55.4	Total Col2Ave (3 peaks):				71.3 RPD = 25
	Corrected Ave (3 peaks):				17.9	Corrected Ave: < 3 Peaks				
Aroclor-1248	1	8.383	0.004	29140	99.9	1	8.695	0.410	16356	85.6
Aroclor-1248	2	8.568	0.008	12422	32.1	2	8.889	0.198	7125	42.3
Aroclor-1248	3	8.967	0.003	131799	114.1	3	9.259	0.095	58924	285.5
Aroclor-1248	4	9.276	0.005	155956	257.1	4	9.430	-0.164	67213	305.3
	Total Col1Ave (4 peaks):				125.8	Total Col2Ave (4 peaks):				179.7 RPD = 35
	Corrected Ave (3 peaks):				82.0	Corrected Ave (3 peaks):				137.8 RPD = 51*
Aroclor-1254	1	9.276	0.000	155956	239.0	1	9.430	0.000	67213	246.7
Aroclor-1254	2	9.356	-0.002	75626	244.6	2	9.527	-0.001	39667	238.9
Aroclor-1254	3	9.648	0.001	99996	242.4	3	9.950	-0.000	53621	243.2
Aroclor-1254	4	9.788	-0.001	198294	236.6	4	10.109	-0.001	114263	239.3
Aroclor-1254	5	10.164	-0.004	108093	245.4	5	10.355	-0.001	111846	203.8
	Total Col1Ave (5 peaks):				241.6	Total Col2Ave (5 peaks):				234.4 RPD = 3
	Corrected Ave (4 peaks):				240.7	Corrected Ave (4 peaks):				231.3 RPD = 4
Aroclor-1260	1	11.018	0.001	14792	20.6	1	11.639	0.015	34047	82.8
Aroclor-1260	2	11.338	0.005	15335	21.1	2	11.896	0.004	28313	26.2
Aroclor-1260	3	11.716	0.006	37253	19.7	3	12.479	0.072	16654	67.8
Aroclor-1260	4	12.122	0.006	28154	30.1	4	---			0.0
Aroclor-1260	5	12.293	0.077	2641	6.2	NS	---			----
	Total Col1Ave (5 peaks):				19.5	Total Col2Ave (3 peaks):				58.9 RPD = 100*
	Corrected Ave (4 peaks):				16.9	Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.810	0.002	229213	462.7	1	11.097	-0.076	148180	256.4
Aroclor-1262	2	12.293	0.076	2641	3.1	2	11.639	0.015	34047	69.9
Aroclor-1262	3	---			0.0	3	12.479	0.076	16654	32.5
Aroclor-1262	4	12.965	0.003	1702	2.2	4	---			0.0
	Total Col1Ave (3 peaks):				156.0	Total Col2Ave (3 peaks):				119.6 RPD = 26
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1268	1	12.293	0.075	2641	1.2	1	12.479	0.076	16654	12.5
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.672	0.003	2924	1.5	3	12.859	0.000	1168	0.9
Aroclor-1268	4	13.468	0.007	11477	2.1	4	13.677	0.000	2357	0.6
	Total Col1Ave (3 peaks):				1.6	Total Col2Ave (3 peaks):				4.7 RPD = 97*
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 2154735 Col1 Total PCB = 0.3 ppm*

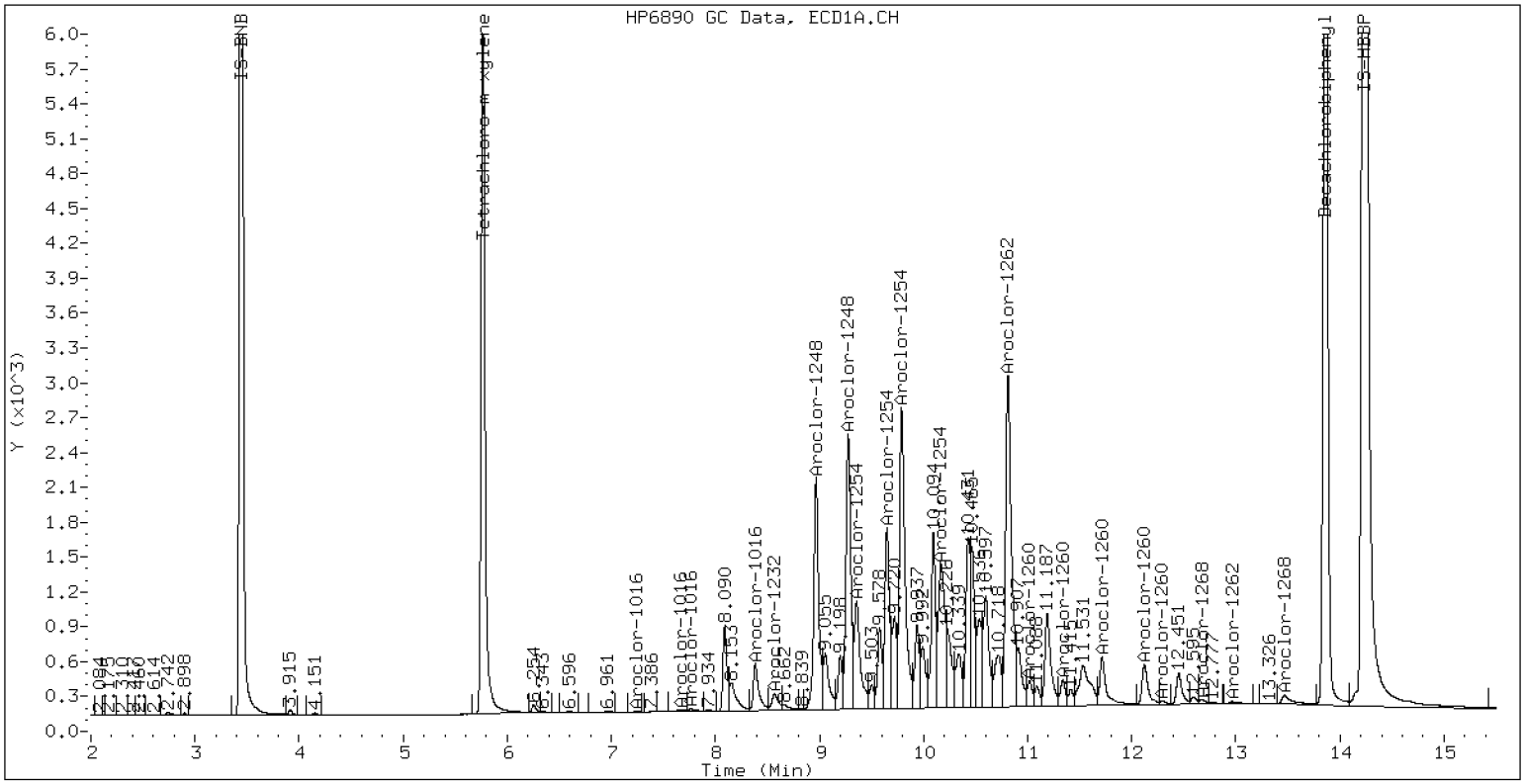
Total PCB Area Col2 (5.751 - 13.984) = 1162346 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

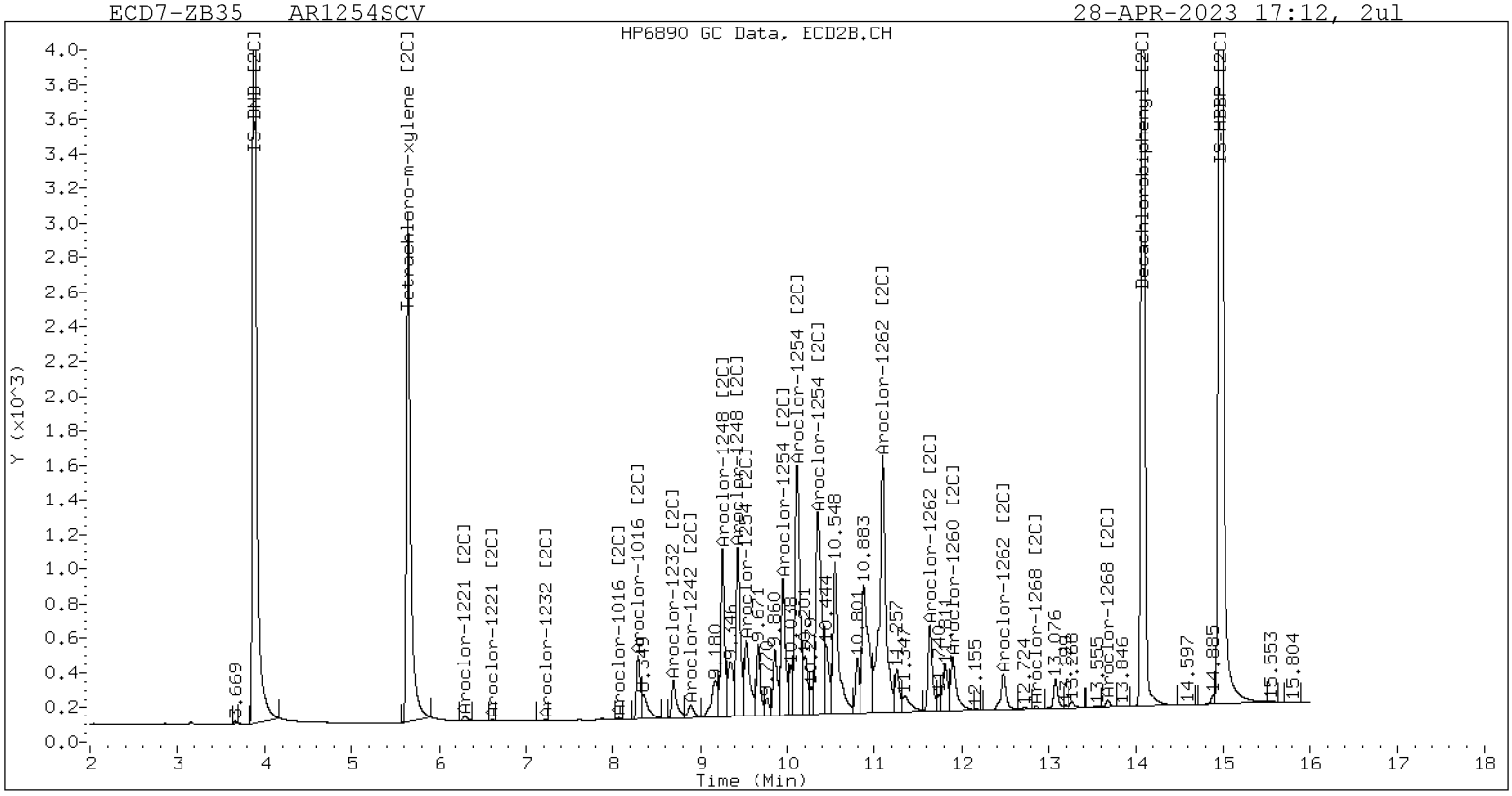
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 28-APR-2023 17:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254SCV 28-APR-2023 17:12, 2ul

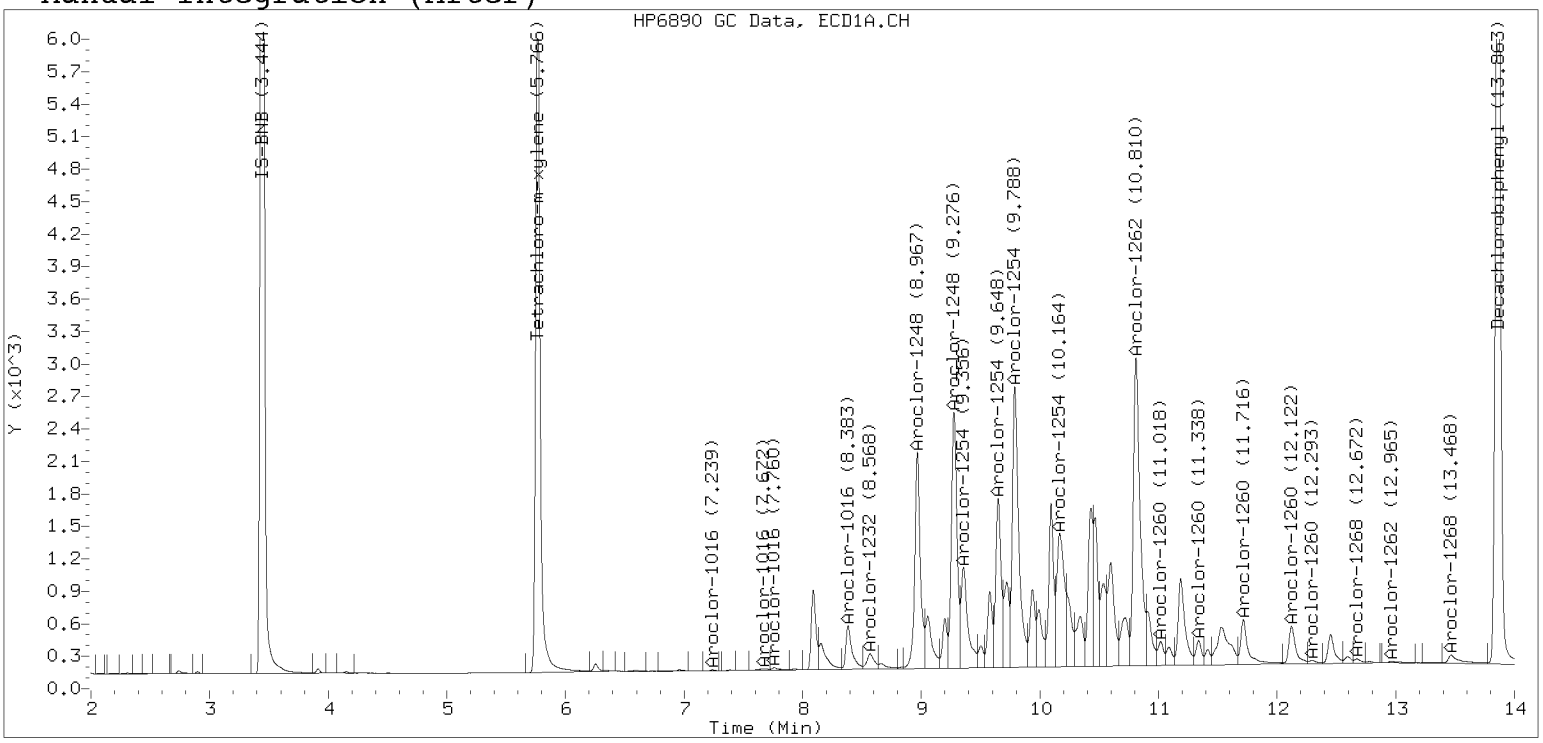


ZB-35 Manual Integration: YES

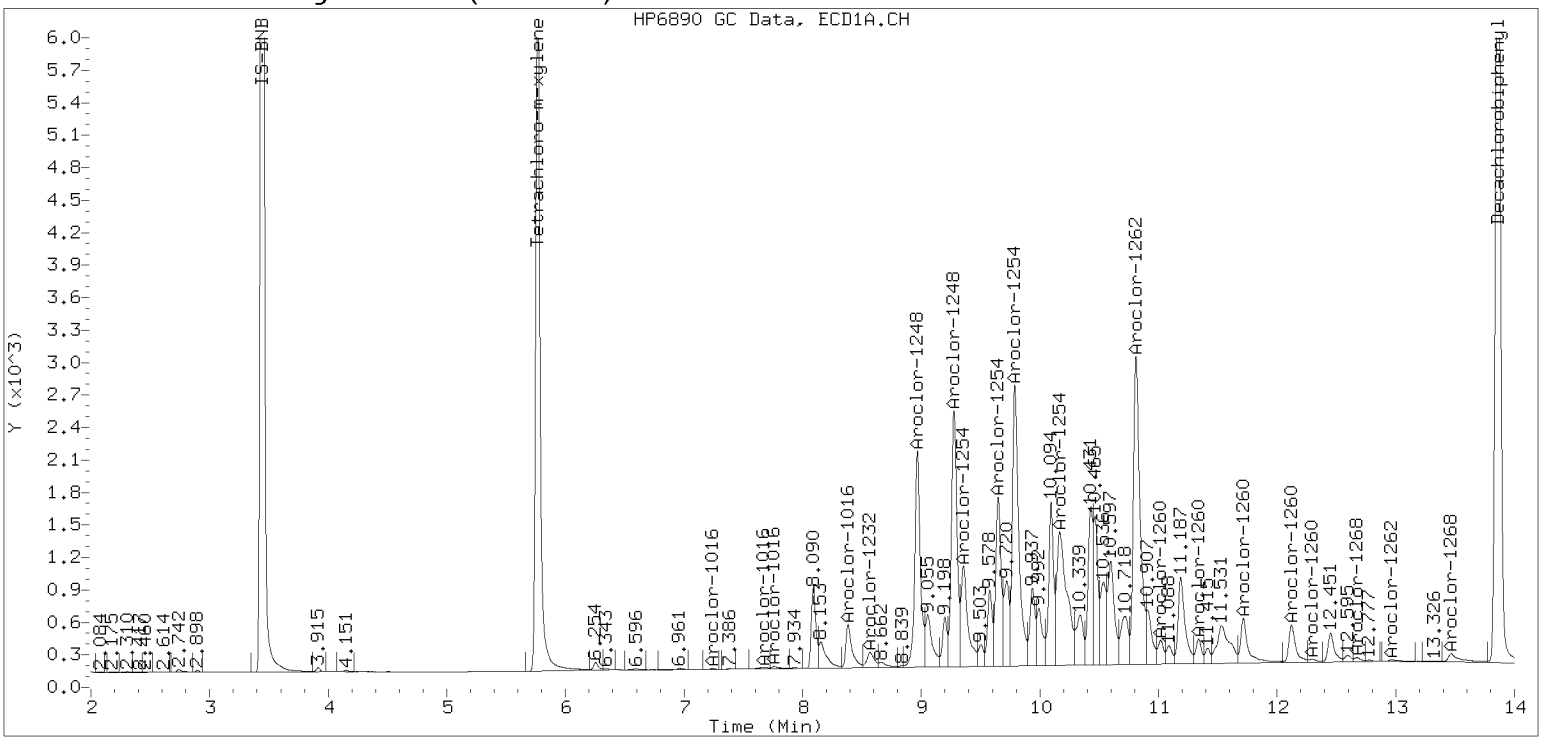
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282318ECD7.D Injection Date: 28-APR-2023 17:12

Manual Integration (After)



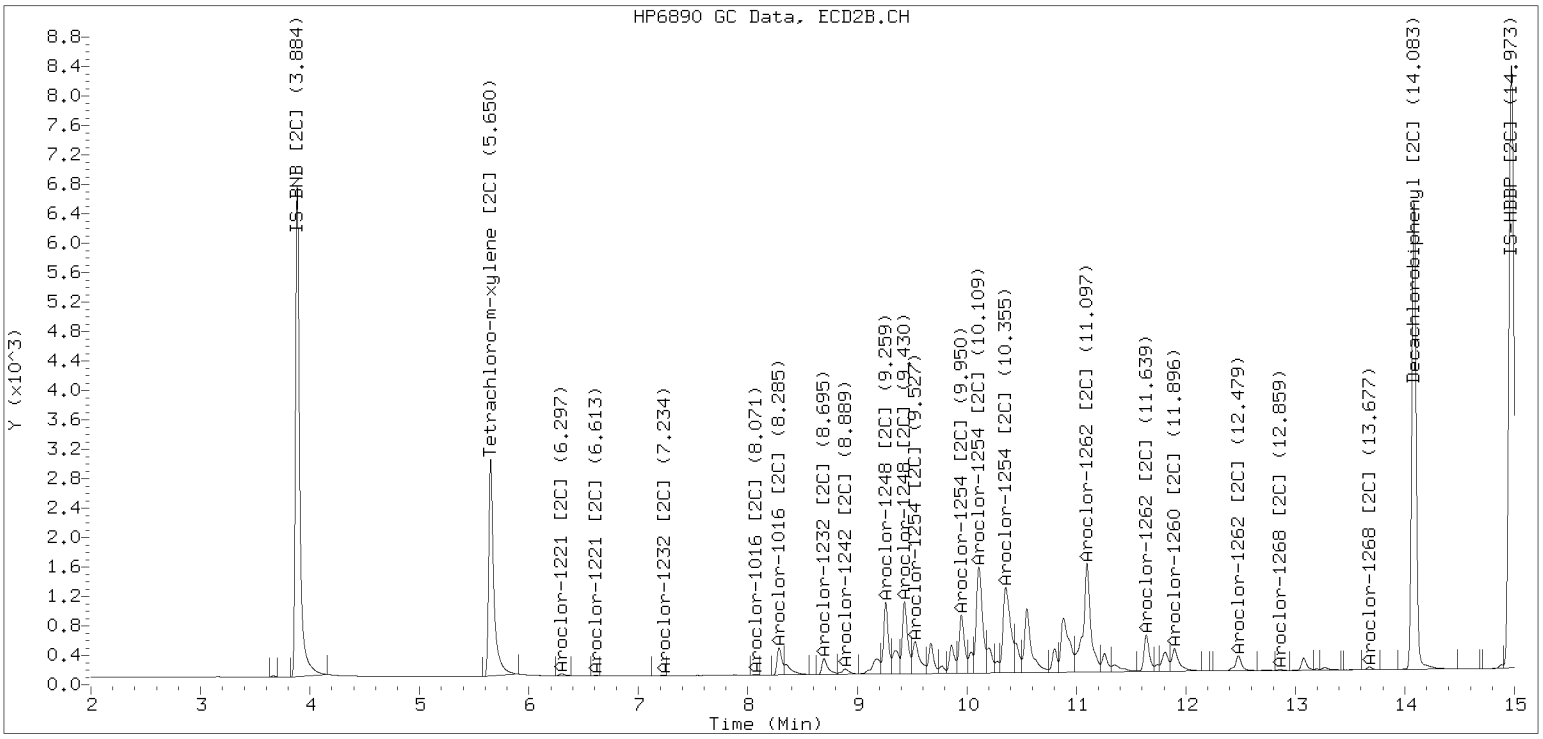
Processed Integration (Before)



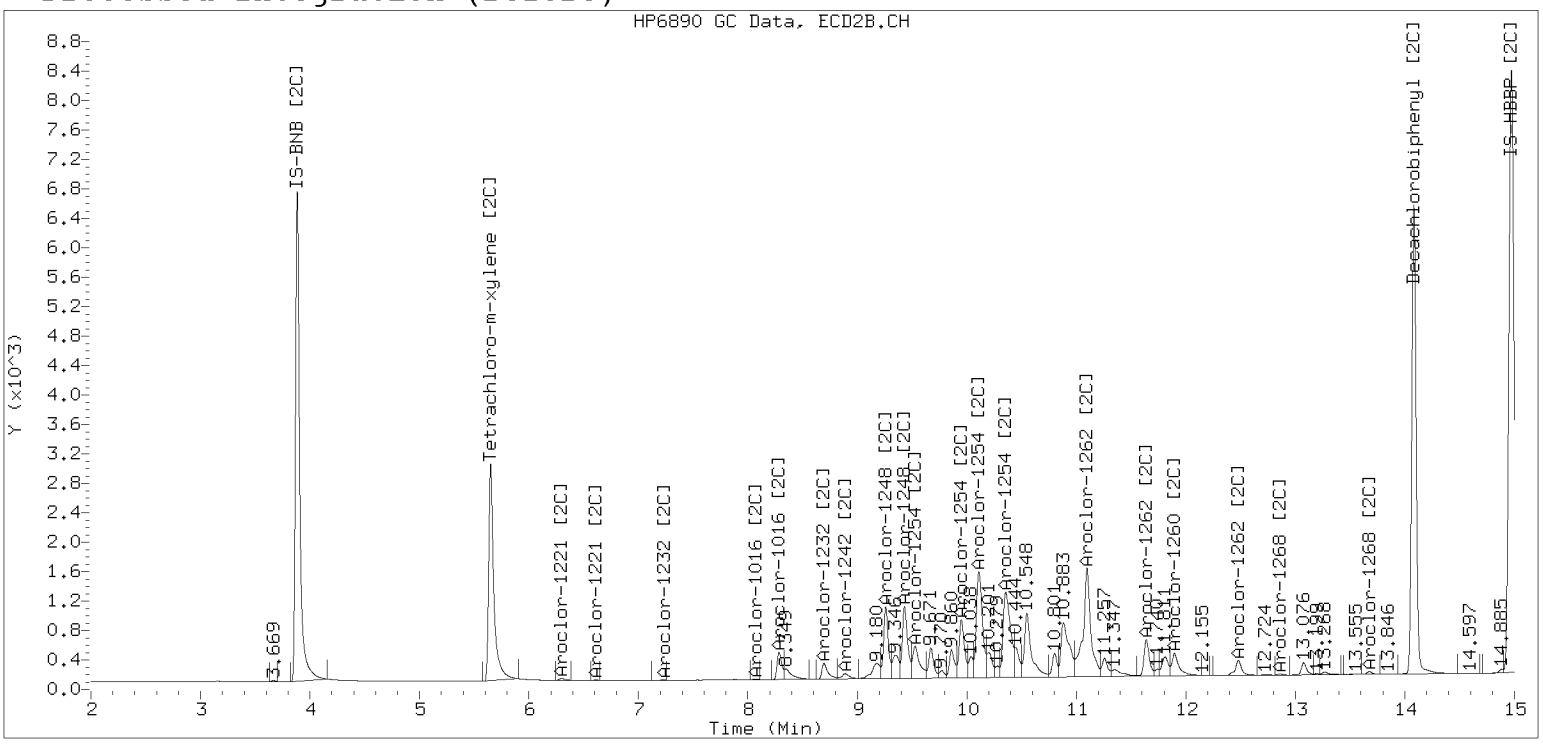
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282318ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282319ECD7.D
Data file 2: /230428.b/230428.b/04282319ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 28-APR-2023 17:33
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	336477	5.650	-0.001	192040	38.3	38.0	0.7	Tetrachloro-m-xylene
13.862	0.001	499246	14.084	-0.000	363267	35.9	38.9	8.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	601660	8.2
Hexabromobiphenyl	745660	1282462	72.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	359781	3.2
Hexabromobiphenyl	429949	576077	34.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	5001	21.5	1	7.227	0.005	3885	19.9
Aroclor-1016	2	7.665	0.037	8647	14.0	2	7.887	0.043	4451	11.6
Aroclor-1016	3	7.777	0.014	6495	15.6	3	8.066	0.012	2267	9.6
Aroclor-1016	4	8.388	0.012	2933	13.5	4	8.290	0.009	1849	10.5
Total Col1Ave (4 peaks):		16.1			Total Col2Ave (4 peaks):		12.9	RPD = 22		
Corrected Ave (3 peaks):		14.3			Corrected Ave (3 peaks):		10.5	RPD = 31		
Aroclor-1221	1	4.683	0.001	12932	280.8	1	4.911	0.000	7988	299.1
Aroclor-1221	2	6.094	0.000	24389	264.0	2	6.265	-0.001	15133	265.2
Aroclor-1221	3	6.348	0.002	57578	262.7	3	6.593	-0.000	34566	264.7
Total Col1Ave (3 peaks):		269.2			Total Col2Ave (3 peaks):		276.3	RPD = 3		
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks					
Aroclor-1232	1	4.683	0.001	12932	441.6	1	4.911	-0.001	7988	515.9
Aroclor-1232	2	6.094	0.001	24389	376.5	2	7.227	0.002	3885	45.1
Aroclor-1232	3	7.665	0.013	8647	33.7	3	7.887	0.025	4451	26.2
Aroclor-1232	4	8.569	0.006	1975	16.5	4	8.699	0.005	1706	32.6
Total Col1Ave (4 peaks):		217.1			Total Col2Ave (4 peaks):		154.9	RPD = 33		
Corrected Ave (3 peaks):		142.2			Corrected Ave (3 peaks):		34.6	RPD = 122*		
Aroclor-1242	1	7.237	0.001	5001	26.6	1	7.227	0.005	3885	24.9
Aroclor-1242	2	7.665	0.026	8647	16.9	2	7.887	0.029	4451	14.2
Aroclor-1242	3	8.388	0.006	2933	17.0	3	8.699	-0.469	1706	15.8
Aroclor-1242	4	8.569	0.009	1975	7.7	4	8.906	-0.697	1208	10.9
Total Col1Ave (4 peaks):		17.1			Total Col2Ave (4 peaks):		16.4	RPD = 4		
Corrected Ave (3 peaks):		13.9			Corrected Ave (3 peaks):		13.6	RPD = 2		
Aroclor-1248	1	8.388	0.009	2933	10.1	1	8.699	0.414	1706	9.0
Aroclor-1248	2	8.569	0.010	1975	5.1	2	8.906	0.215	1208	7.3
Aroclor-1248	3	8.970	0.006	23869	20.7	3	9.261	0.098	12638	62.0
Aroclor-1248	4	9.284	0.013	28188	46.7	4	9.437	-0.157	13948	64.2
Total Col1Ave (4 peaks):		20.7			Total Col2Ave (4 peaks):		35.6	RPD = 53*		
Corrected Ave (3 peaks):		12.0			Corrected Ave (3 peaks):		26.1	RPD = 74*		
Aroclor-1254	1	9.284	0.009	28188	43.4	1	9.437	0.007	13948	51.9
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.654	0.006	4038	9.8	3	9.958	0.008	1791	8.2
Aroclor-1254	4	9.795	0.005	11586	13.9	4	10.124	0.014	55476	117.7
Aroclor-1254	5	10.096	-0.072	138022	314.6	5	10.346	-0.010	70184	129.5
Total Col1Ave (4 peaks):		95.4			Total Col2Ave (4 peaks):		76.8	RPD = 22		
Corrected Ave (3 peaks):		22.4			Corrected Ave (3 peaks):		59.3	RPD = 90*		
Aroclor-1260	1	11.019	0.002	240553	332.2	1	11.623	-0.001	124057	302.7
Aroclor-1260	2	11.335	0.002	202728	276.0	2	11.893	0.001	303878	282.5
Aroclor-1260	3	11.713	0.003	494200	259.3	3	12.405	-0.002	129175	527.4
Aroclor-1260	4	12.118	0.002	155139	164.1	4	12.475	0.000	226410	308.9
Aroclor-1260	5	12.217	0.001	214340	494.2	NS	---			----
Total Col1Ave (5 peaks):		305.2			Total Col2Ave (4 peaks):		355.4	RPD = 15		
Corrected Ave (4 peaks):		257.9			Corrected Ave (3 peaks):		298.1	RPD = 14		
Aroclor-1262	1	10.809	0.000	123367	246.5	1	11.173	-0.000	146790	254.9
Aroclor-1262	2	12.217	0.001	214340	245.2	2	11.623	-0.001	124057	255.8
Aroclor-1262	3	12.293	0.001	236304	246.0	3	12.405	0.001	129175	252.9
Aroclor-1262	4	12.963	0.001	216573	279.5	4	12.475	-0.000	226410	256.4
Total Col1Ave (4 peaks):		254.3			Total Col2Ave (4 peaks):		255.0	RPD = 0		
Corrected Ave (3 peaks):		245.9			Corrected Ave (3 peaks):		254.5	RPD = 3		
Aroclor-1268	1	12.217	-0.001	214340	97.4	1	12.405	0.001	129175	97.0
Aroclor-1268	2	12.293	0.002	236304	103.1	2	12.475	0.004	226410	149.9
Aroclor-1268	3	12.700	0.031	85797	45.0	3	12.859	0.001	9727	7.8
Aroclor-1268	4	13.461	0.001	83654	15.2	4	13.678	0.001	40997	10.8
Total Col1Ave (4 peaks):		65.2			Total Col2Ave (4 peaks):		66.4	RPD = 2		

Corrected Ave (3 peaks): 52.5 Corrected Ave (3 peaks): 38.5 RPD = 31

Total PCB Area Col1 (5.866 - 13.762) = 3513270 Col1 Total PCB = 0.5 ppm*

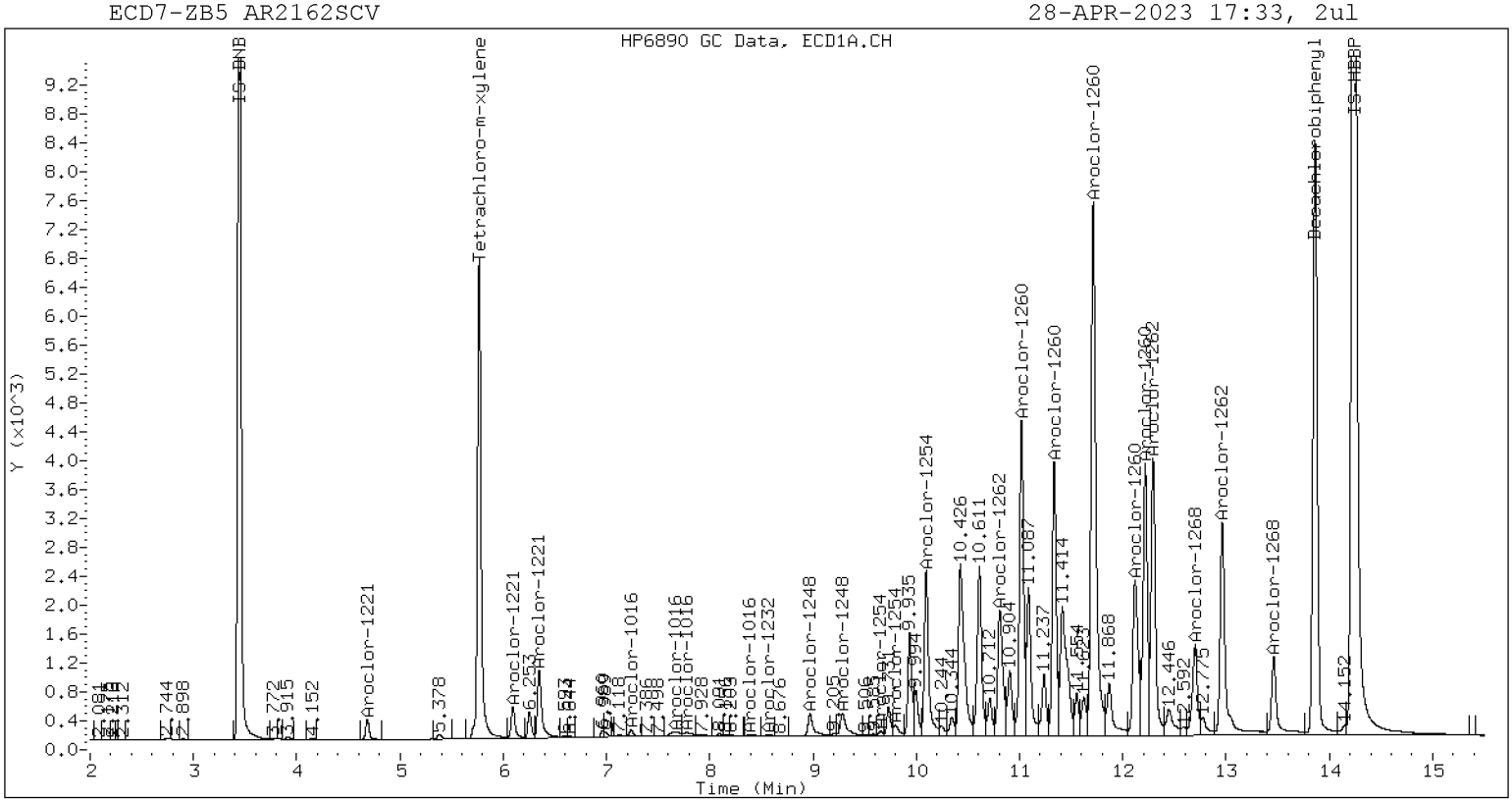
Total PCB Area Col2 (5.751 - 13.984) = 1957095 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

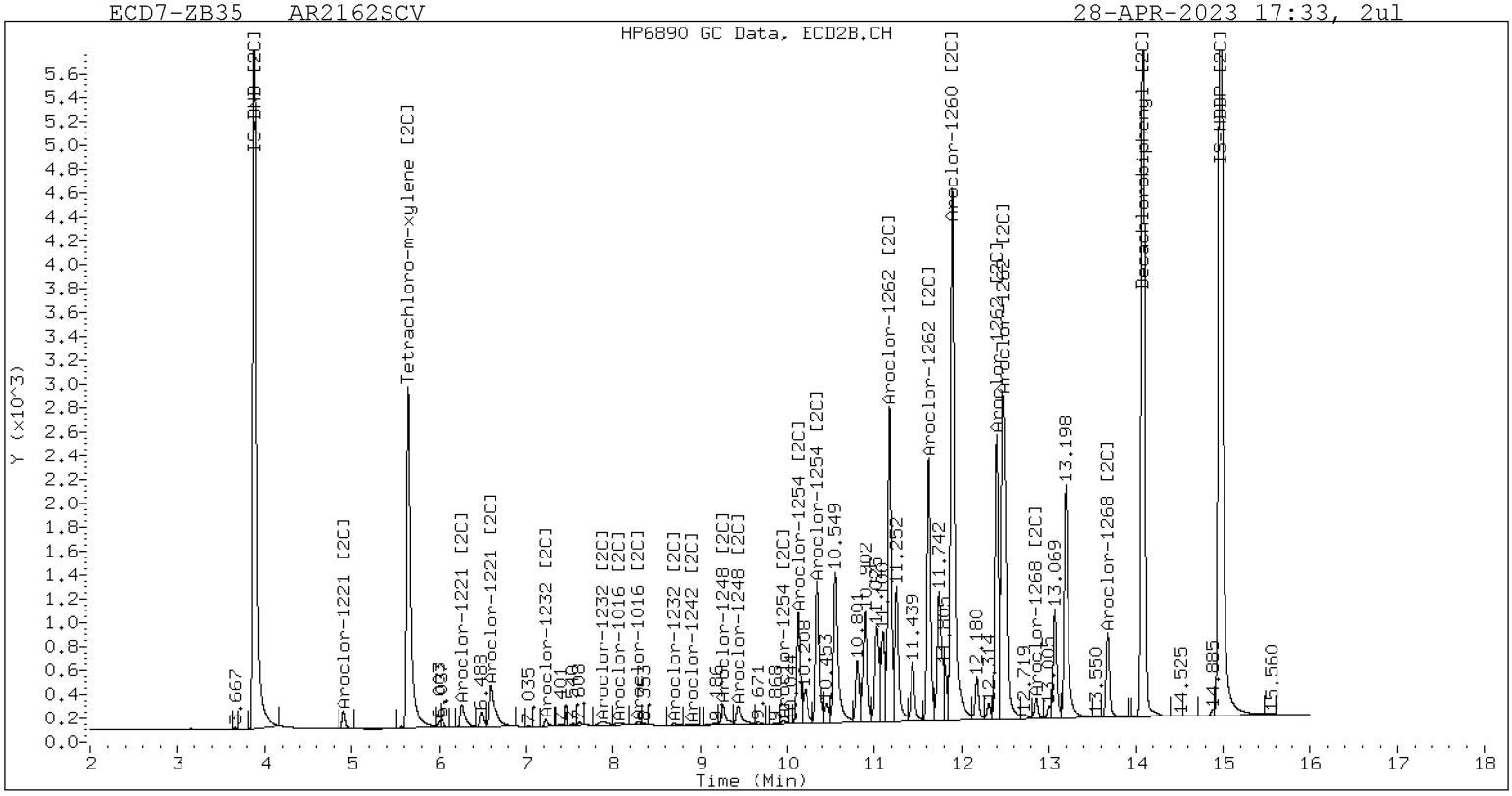
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 28-APR-2023 17:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 28-APR-2023 17:33, 2ul

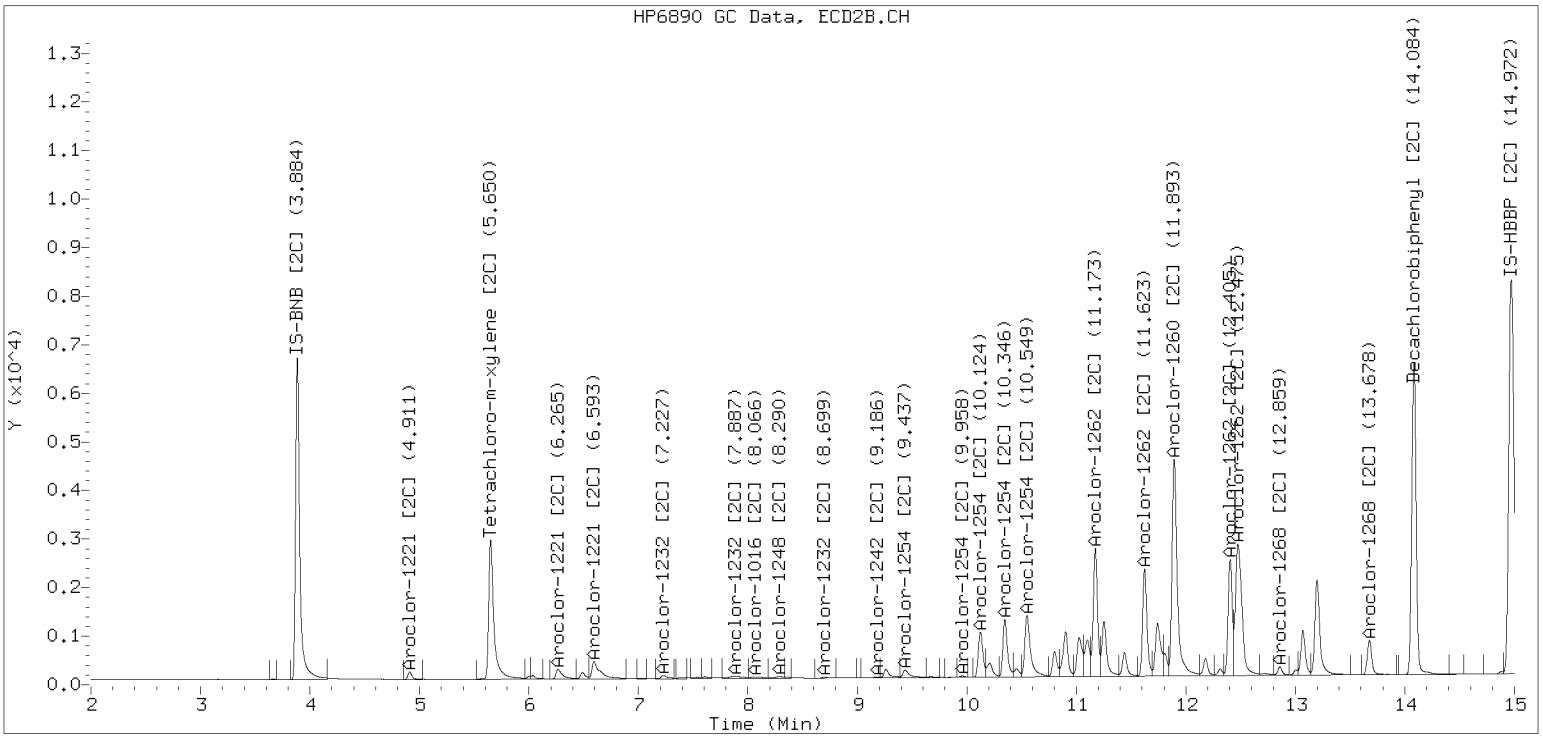


ZB-35 Manual Integration: NO

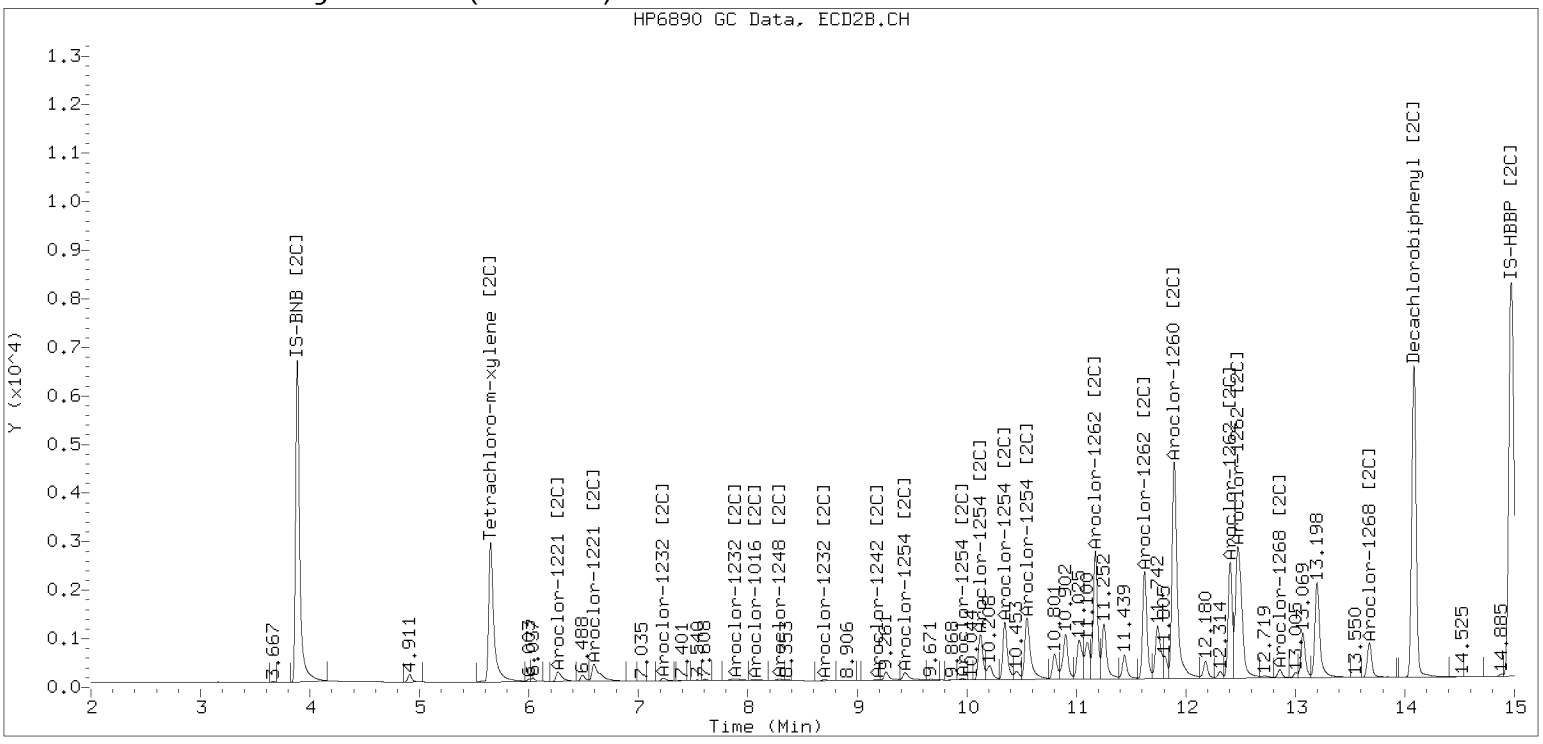
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282319ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282320ECD7.D
Data file 2: /230428.b/230428.b/04282320ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 28-APR-2023 17:54
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	344701	5.650	-0.000	190884	39.7	38.1	4.2	Tetrachloro-m-xylene
13.863	0.002	748678	14.083	-0.001	556825	54.3	60.0	10.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	594267	6.8
Hexabromobiphenyl	745660	1272651	70.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	357253	2.5
Hexabromobiphenyl	429949	572751	33.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.238	0.002	27428	119.4	1	7.224	0.003	22212	114.8
Aroclor-1016	2	7.645	0.018	67306	110.5	2	7.864	0.020	43795	114.5
Aroclor-1016	3	7.770	0.007	44634	108.2	3	8.063	0.009	25689	109.2
Aroclor-1016	4	8.384	0.008	23868	110.9	4	8.289	0.008	18313	104.5
Total Col1Ave (4 peaks):					112.2	Total Col2Ave (4 peaks):				110.7 RPD = 1
Corrected Ave (3 peaks):					109.9	Corrected Ave (3 peaks):				109.4 RPD = 0
Aroclor-1221	1	4.684	0.002	6934	152.4	1	4.912	0.002	3754	141.5
Aroclor-1221	2	6.095	0.001	14371	157.5	2	6.267	0.002	8987	158.6
Aroclor-1221	3	6.348	0.002	41876	193.5	3	6.596	0.002	24420	188.3
Total Col1Ave (3 peaks):					167.8	Total Col2Ave (3 peaks):				162.8 RPD = 3
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.684	0.002	6934	239.7	1	4.912	0.001	3754	244.1
Aroclor-1232	2	6.095	0.001	14371	224.6	2	7.224	-0.001	22212	259.7
Aroclor-1232	3	7.645	-0.006	67306	265.3	3	7.864	0.002	43795	259.5
Aroclor-1232	4	8.564	0.001	33203	281.0	4	8.693	-0.001	13696	263.5
Total Col1Ave (4 peaks):					252.6	Total Col2Ave (4 peaks):				256.7 RPD = 2
Corrected Ave (3 peaks):					243.2	Corrected Ave (3 peaks):				254.4 RPD = 5
Aroclor-1242	1	7.238	0.001	27428	147.9	1	7.224	0.002	22212	143.1
Aroclor-1242	2	7.645	0.007	67306	132.8	2	7.864	0.006	43795	141.0
Aroclor-1242	3	8.428	0.047	16206	95.1	3	8.693	-0.475	13696	127.5
Aroclor-1242	4	8.564	0.004	33203	131.6	4	8.897	-0.706	21265	192.9
Total Col1Ave (4 peaks):					126.9	Total Col2Ave (4 peaks):				151.1 RPD = 17
Corrected Ave (3 peaks):					119.8	Corrected Ave (3 peaks):				137.2 RPD = 14
Aroclor-1248	1	8.384	0.005	23868	83.1	1	8.693	0.408	13696	73.1
Aroclor-1248	2	8.564	0.005	33203	87.2	2	8.897	0.206	21265	128.9
Aroclor-1248	3	8.968	0.004	84096	74.0	3	9.261	0.097	25621	126.6
Aroclor-1248	4	9.276	0.005	56986	95.5	4	9.433	-0.160	6057	28.1
Total Col1Ave (4 peaks):					85.0	Total Col2Ave (4 peaks):				89.2 RPD = 5
Corrected Ave (3 peaks):					81.4	Corrected Ave (3 peaks):				75.9 RPD = 7
Aroclor-1254	1	9.276	0.000	56986	88.8	1	9.433	0.004	6057	22.7
Aroclor-1254	2	---			0.0	2	9.609	0.081	13368	82.1
Aroclor-1254	3	9.660	0.012	7875	19.4	3	9.958	0.008	2781	12.9
Aroclor-1254	4	9.800	0.010	12771	15.5	4	10.117	0.007	5502	11.8
Aroclor-1254	5	10.183	0.015	9957	23.0	5	10.379	0.024	5042	9.4
Total Col1Ave (4 peaks):					36.7	Total Col2Ave (5 peaks):				27.8 RPD = 28
Corrected Ave (3 peaks):					19.3	Corrected Ave (4 peaks):				14.2 RPD = 31
Aroclor-1260	1	11.023	0.005	98362	136.9	1	11.614	-0.010	74582	183.0
Aroclor-1260	2	11.337	0.004	8979	12.3	2	11.895	0.003	33641	31.5
Aroclor-1260	3	11.714	0.004	59413	31.4	3	12.402	-0.005	335038	1375.9
Aroclor-1260	4	---			0.0	4	12.470	-0.005	380342	522.0
Aroclor-1260	5	12.219	0.003	530793	1233.3	NS	---			----
Total Col1Ave (4 peaks):					353.5	Total Col2Ave (4 peaks):				528.1 RPD = 40
Corrected Ave (3 peaks):					60.2	Corrected Ave (3 peaks):				245.5 RPD = 121*
Aroclor-1262	1	10.815	0.006	5713	11.5	1	11.176	0.003	58379	102.0
Aroclor-1262	2	12.219	0.002	530793	612.0	2	11.614	-0.010	74582	154.7
Aroclor-1262	3	12.291	-0.001	548779	575.7	3	12.402	-0.002	335038	659.6
Aroclor-1262	4	12.960	-0.003	218981	284.8	4	12.470	-0.005	380342	433.3
Total Col1Ave (4 peaks):					371.0	Total Col2Ave (4 peaks):				337.4 RPD = 9
Corrected Ave (3 peaks):					290.7	Corrected Ave (3 peaks):				230.0 RPD = 23
Aroclor-1268	1	12.219	0.000	530793	243.0	1	12.402	-0.001	335038	253.1
Aroclor-1268	2	12.291	0.000	548779	241.2	2	12.470	-0.001	380342	253.2
Aroclor-1268	3	12.669	0.000	449251	237.4	3	12.859	0.001	314079	253.1
Aroclor-1268	4	13.461	-0.000	1338158	244.6	4	13.676	-0.001	976802	258.3
Total Col1Ave (4 peaks):					241.6	Total Col2Ave (4 peaks):				254.4 RPD = 5

Corrected Ave (3 peaks): 240.5 Corrected Ave (3 peaks): 253.1 RPD = 5

Total PCB Area Col1 (5.866 - 13.762) = 4336494 Col1 Total PCB = 0.6 ppm*

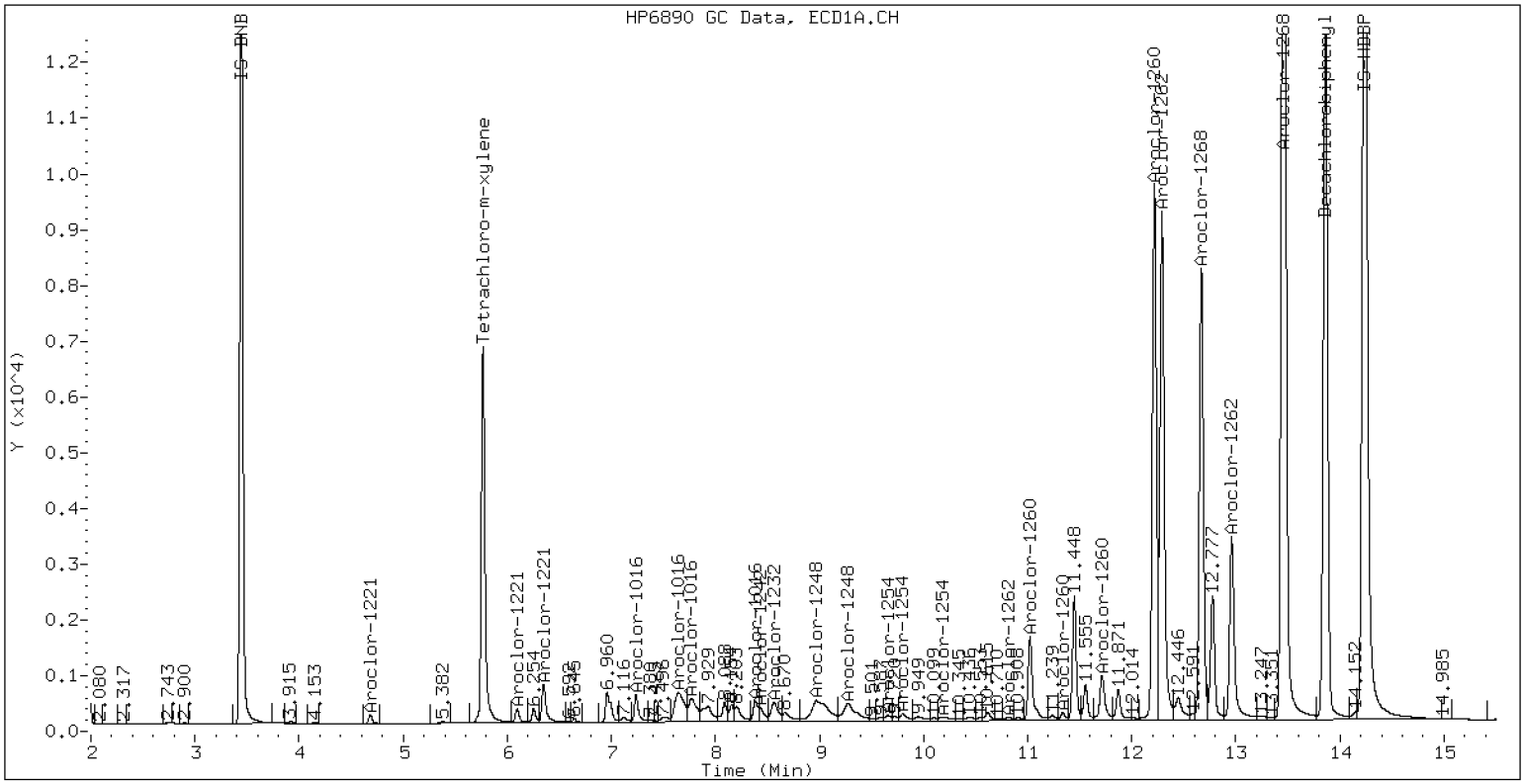
Total PCB Area Col2 (5.751 - 13.984) = 2807426 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

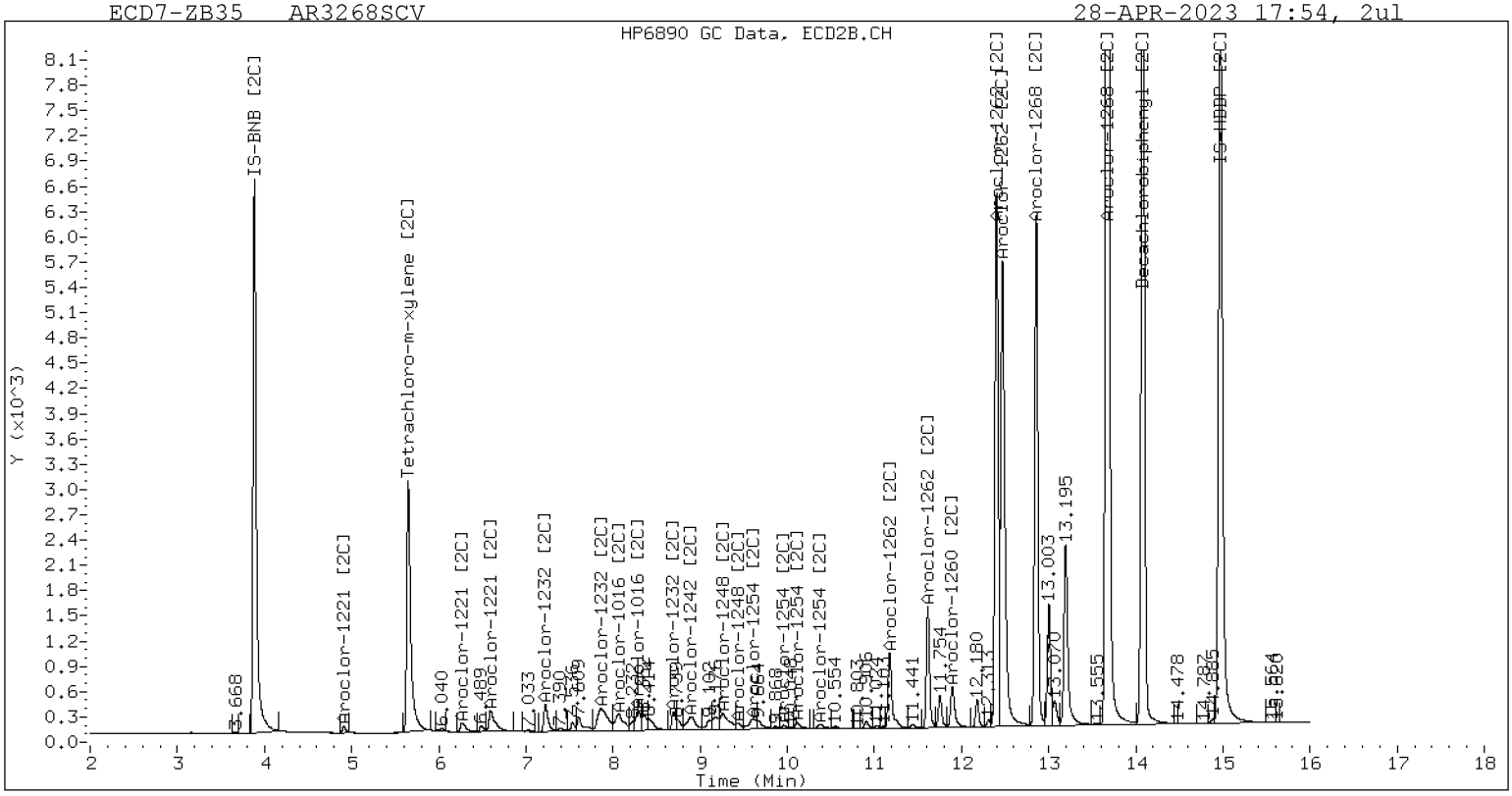
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 28-APR-2023 17:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 28-APR-2023 17:54, 2ul

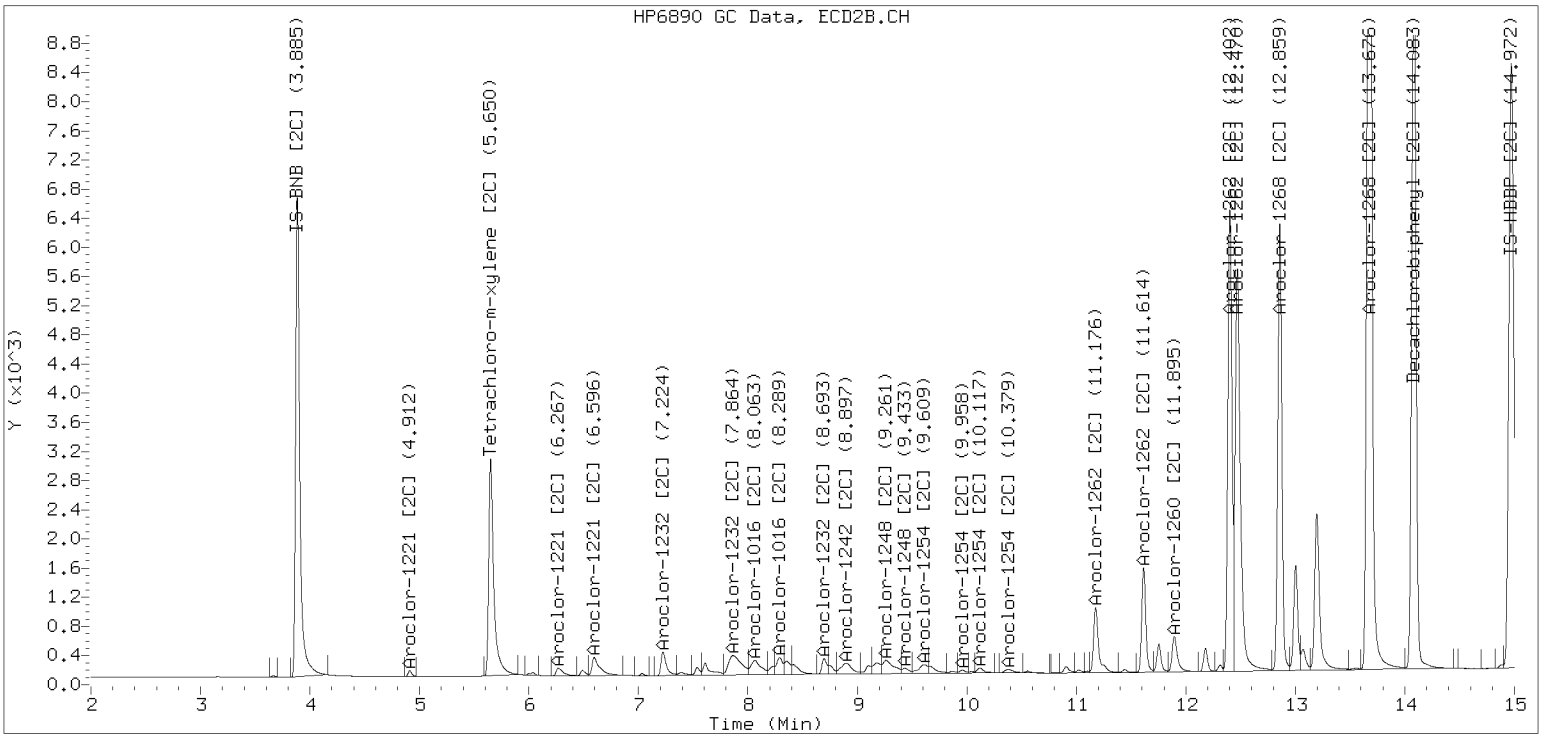


ZB-35 Manual Integration: YES

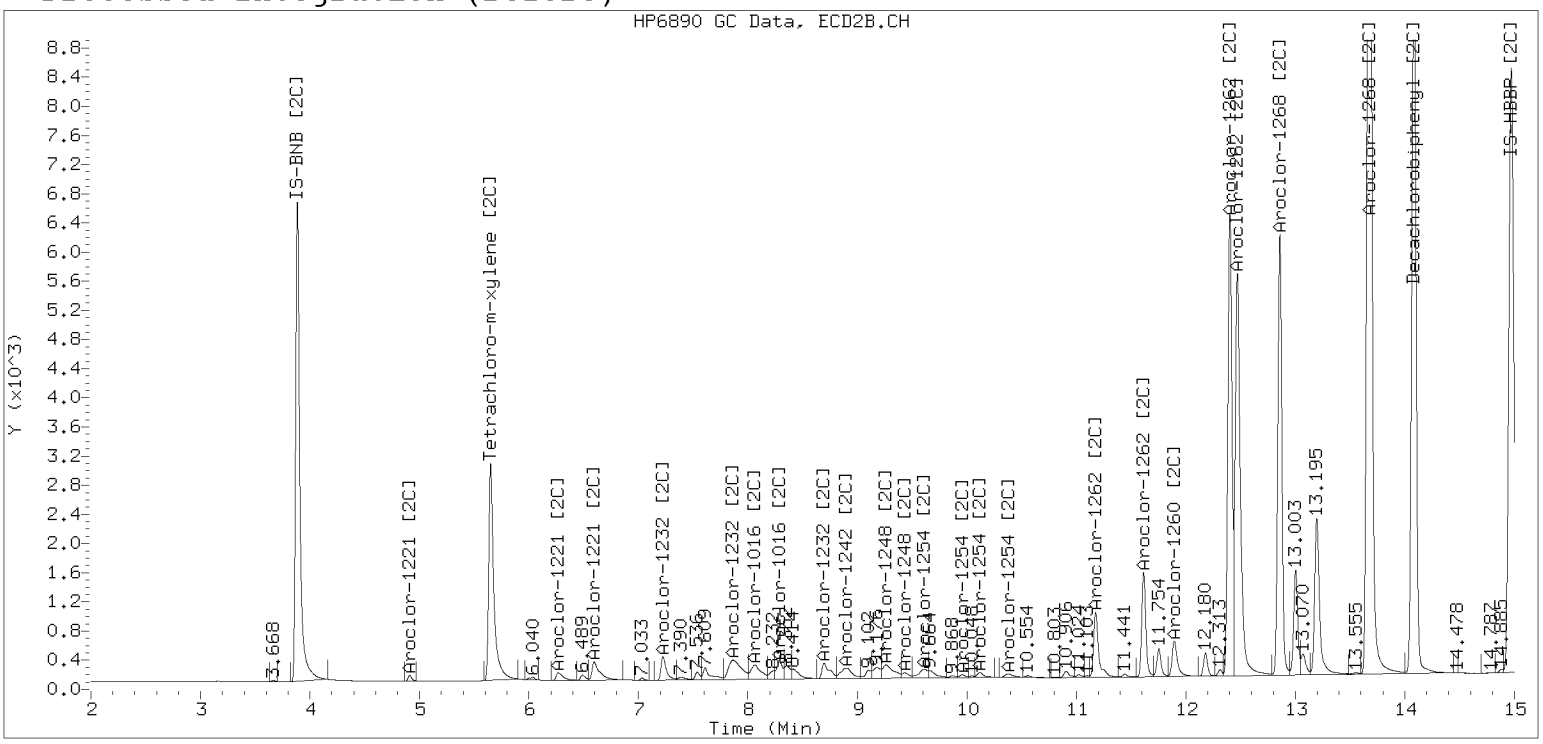
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282320ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230428.b/04282321ECD7.D ARI ID: DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.237	0.000	691585	9.891	0.000	694558	0.000	0.000	----	2,4-DDE
0.000	-10.293	0	10.655	0.000	754211	0.000	0.000#	----	2,4-DDT
9.665	0.000	1165023	10.187	0.000	529858	0.000	0.000	----	4,4-DDE
10.242	0.000	1836599	10.655	0.000	754211	0.000	0.000#	----	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230428.b/04282322ECD7.D ARI ID: DDT BD

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.256	0.019	5776	9.913	0.023	12156	0.000	0.000	----	2,4-DDE
0.000	-10.293	0	10.662	0.007	305670	0.000	0.000#	----	2,4-DDT
9.682	0.017	14639	10.110	-0.077	600	0.000	0.000	----	4,4-DDE
10.250	0.007	480371	10.662	0.007	305670	0.000	0.000#	----	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00002
Laboratory ID: SLD0427-SCV1
Sequence: SLD0427
Sequence Name: AR1660SCV1
Standard ID: L002065

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	253	1.1	20.00
Aroclor 1016 [2C]	250.00	248	-0.8	20.00
Aroclor 1260	250.00	244	-2.2	20.00
Aroclor 1260 [2C]	250.00	259	3.7	20.00
Decachlorobiphenyl	40.000	36.6	-8.5	20.00
Tetrachlorometaxylene	40.000	37.6	-6.0	20.00
Decachlorobiphenyl [2C]	40.000	38.9	-2.7	20.00
Tetrachlorometaxylene [2C]	40.000	36.1	-9.7	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282315ECD7.D
Data file 2: /230428.b/230428.b/04282315ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 28-APR-2023 16:09
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	-0.000	328442	5.650	-0.000	184023	37.6	36.1	4.0	Tetrachloro-m-xylene
13.862	0.000	457973	14.083	-0.001	349905	36.6	38.9	6.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	597924	7.5
Hexabromobiphenyl	745660	1154377	54.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	362828	4.1
Hexabromobiphenyl	429949	555238	29.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.236	0.001	58167	251.6	1	7.223	0.002	49868	253.8
Aroclor-1016	2	7.636	0.008	162832	265.6	2	7.853	0.009	102116	262.9
Aroclor-1016	3	7.766	0.003	98114	236.5	3	8.060	0.005	57971	242.6
Aroclor-1016	4	8.378	0.002	55690	257.2	4	8.285	0.005	41472	232.9
Total Col1Ave (4 peaks):					252.7	Total Col2Ave (4 peaks):				248.1 RPD = 2
Corrected Ave (3 peaks):					248.4	Corrected Ave (3 peaks):				243.1 RPD = 2
Aroclor-1221	1	4.683	0.001	327	7.1	1	---			0.0
Aroclor-1221	2	6.092	-0.001	8500	92.6	2	6.279	0.013	4329	75.2
Aroclor-1221	3	6.347	0.001	39437	181.1	3	6.596	0.002	22951	174.3
Total Col1Ave (3 peaks):					93.6	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.683	0.001	327	11.2	1	---			0.0
Aroclor-1232	2	6.092	-0.001	8500	132.0	2	7.223	-0.002	49868	574.1
Aroclor-1232	3	7.636	-0.015	162832	637.9	3	7.853	-0.010	102116	595.7
Aroclor-1232	4	8.559	-0.004	77917	655.3	4	8.690	-0.003	33380	632.3
Total Col1Ave (4 peaks):					359.1	Total Col2Ave (3 peaks):				600.7 RPD = 50*
Corrected Ave (3 peaks):					260.4	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.236	-0.000	58167	311.8	1	7.223	0.001	49868	316.3
Aroclor-1242	2	7.636	-0.002	162832	319.3	2	7.853	-0.006	102116	323.8
Aroclor-1242	3	8.423	0.042	38520	224.6	3	8.690	-0.477	33380	306.1
Aroclor-1242	4	8.559	-0.002	77917	307.0	4	8.889	-0.714	53314	476.2
Total Col1Ave (4 peaks):					290.7	Total Col2Ave (4 peaks):				355.6 RPD = 20
Corrected Ave (3 peaks):					281.1	Corrected Ave (3 peaks):				315.4 RPD = 11
Aroclor-1248	1	8.378	-0.001	55690	192.8	1	8.690	0.406	33380	175.4
Aroclor-1248	2	8.559	-0.000	77917	203.4	2	8.889	0.198	53314	318.2
Aroclor-1248	3	8.966	0.002	73557	64.3	3	9.258	0.095	27563	134.1
Aroclor-1248	4	9.279	0.008	51235	85.3	4	9.431	-0.163	27687	126.3
Total Col1Ave (4 peaks):					136.5	Total Col2Ave (4 peaks):				188.5 RPD = 32
Corrected Ave (3 peaks):					114.1	Corrected Ave (3 peaks):				145.3 RPD = 24
Aroclor-1254	1	9.279	0.004	51235	79.3	1	9.431	0.001	27687	102.1
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.649	0.001	5569	13.6	3	9.953	0.003	2877	13.1
Aroclor-1254	4	9.790	0.001	20622	24.9	4	10.122	0.013	59350	124.8
Aroclor-1254	5	10.094	-0.074	163613	375.2	5	10.345	-0.011	83726	153.2
Total Col1Ave (4 peaks):					123.3	Total Col2Ave (4 peaks):				98.3 RPD = 23
Corrected Ave (3 peaks):					39.3	Corrected Ave (3 peaks):				80.0 RPD = 68*
Aroclor-1260	1	11.018	0.001	162373	249.1	1	11.624	0.000	96769	245.0
Aroclor-1260	2	11.335	0.002	163247	246.9	2	11.893	0.001	269412	259.9
Aroclor-1260	3	11.711	0.001	430555	250.9	3	12.406	-0.001	64881	274.8
Aroclor-1260	4	12.118	0.002	188077	221.1	4	12.476	0.001	182024	257.7
Aroclor-1260	5	12.216	0.000	99127	253.9	NS	---			----
Total Col1Ave (5 peaks):					244.4	Total Col2Ave (4 peaks):				259.3 RPD = 6
Corrected Ave (4 peaks):					242.0	Corrected Ave (3 peaks):				254.2 RPD = 5
Aroclor-1262	1	10.808	-0.000	229421	509.3	1	11.172	-0.001	104566	188.4
Aroclor-1262	2	12.216	-0.000	99127	126.0	2	11.624	0.000	96769	207.0
Aroclor-1262	3	12.292	0.000	123787	143.2	3	12.406	0.002	64881	131.8
Aroclor-1262	4	12.963	0.001	107216	153.7	4	12.476	0.001	182024	213.9
Total Col1Ave (4 peaks):					233.0	Total Col2Ave (4 peaks):				185.3 RPD = 23
Corrected Ave (3 peaks):					141.0	Corrected Ave (3 peaks):				175.7 RPD = 22
Aroclor-1268	1	12.216	-0.002	99127	50.0	1	12.406	0.002	64881	50.6
Aroclor-1268	2	12.292	0.002	123787	60.0	2	12.476	0.005	182024	125.0
Aroclor-1268	3	12.700	0.030	49518	28.9	3	12.859	0.000	4065	3.4
Aroclor-1268	4	13.461	0.000	25958	5.2	4	13.677	-0.000	14756	4.0
Total Col1Ave (4 peaks):					36.0	Total Col2Ave (4 peaks):				45.7 RPD = 24
Corrected Ave (3 peaks):					28.0	Corrected Ave (3 peaks):				19.3 RPD = 37

Total PCB Area Col1 (5.866 - 13.762) = 3921238 Col1 Total PCB = 0.5 ppm*

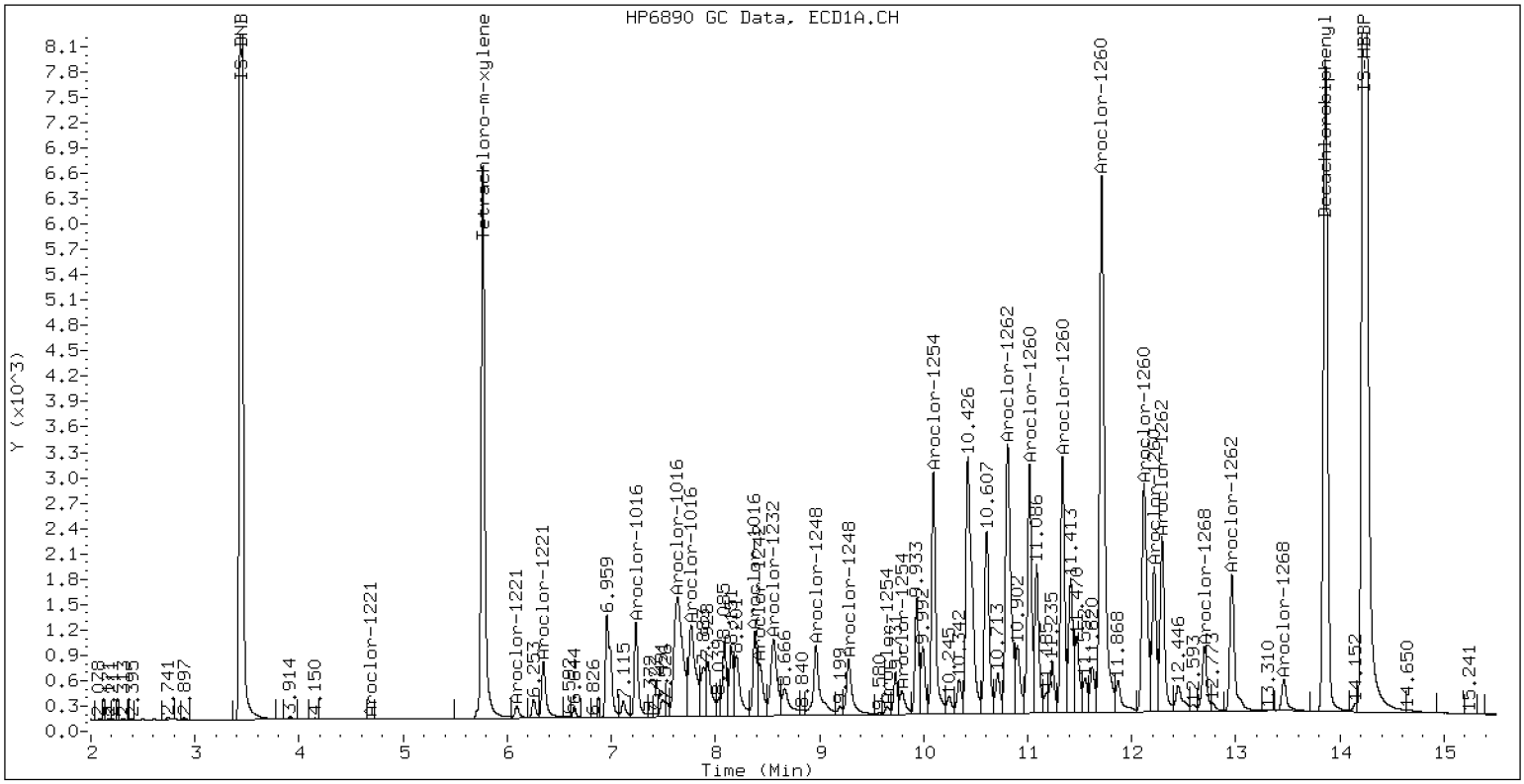
Total PCB Area Col2 (5.751 - 13.984) = 2234032 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

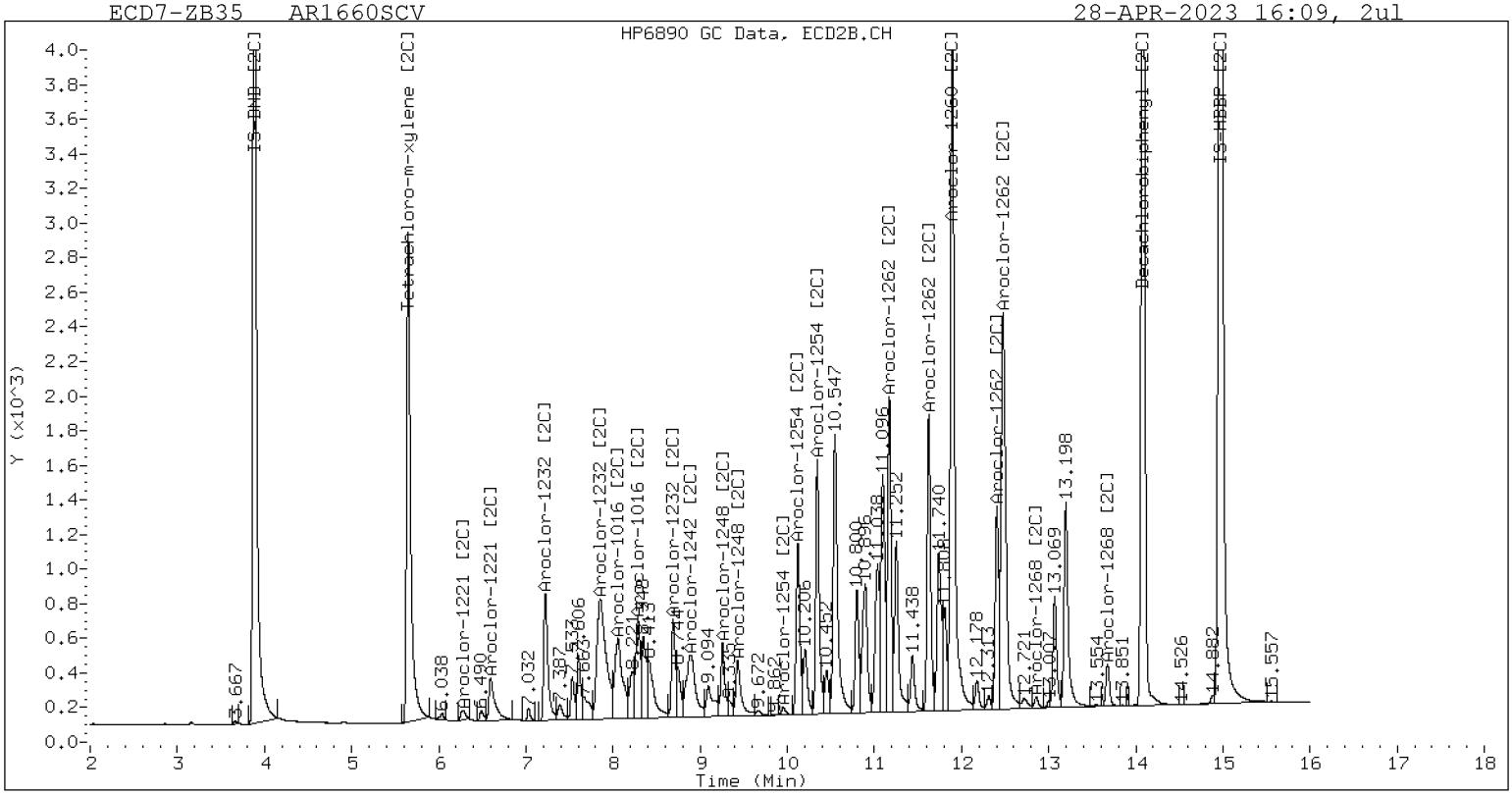
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 28-APR-2023 16:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 28-APR-2023 16:09, 2ul

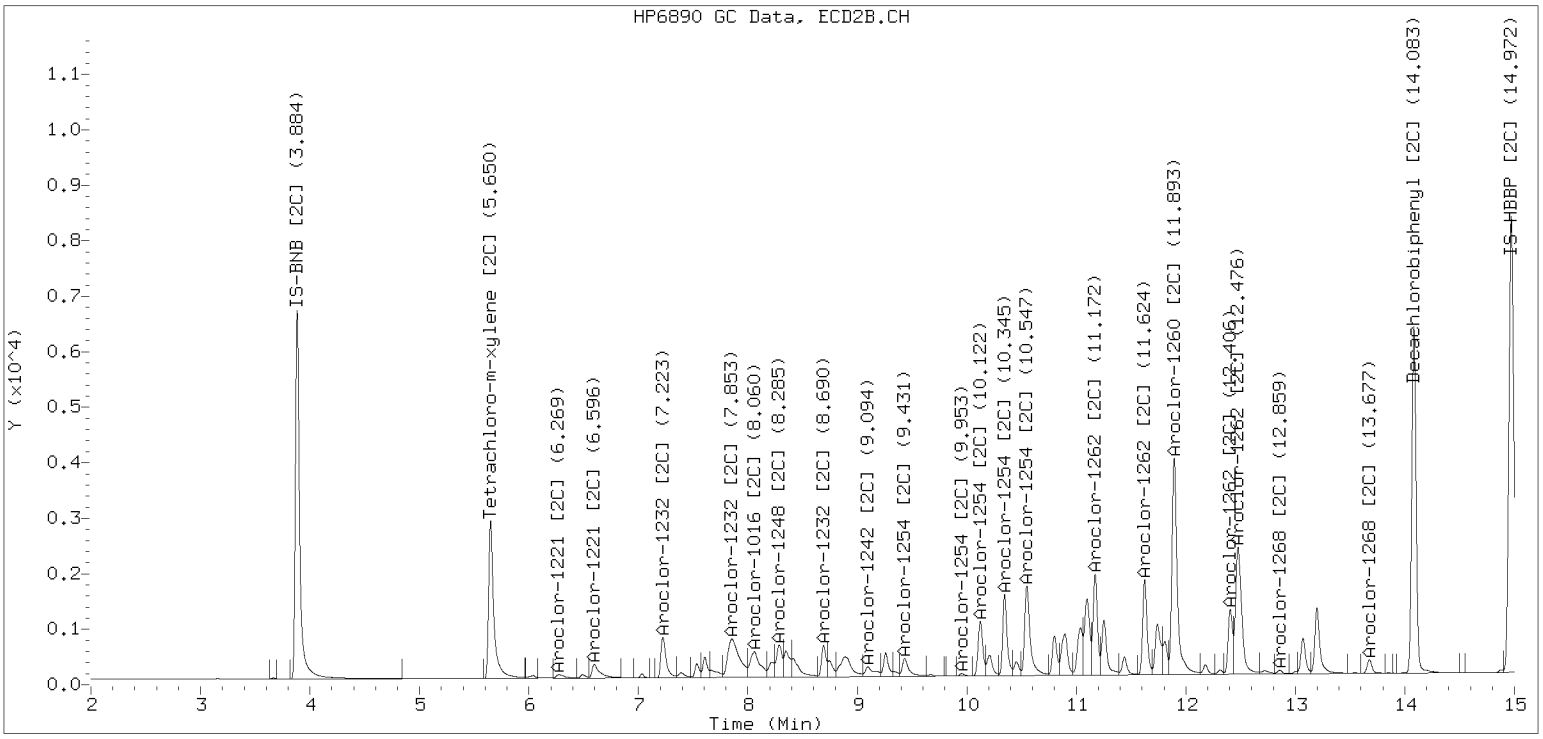


ZB-35 Manual Integration: NO

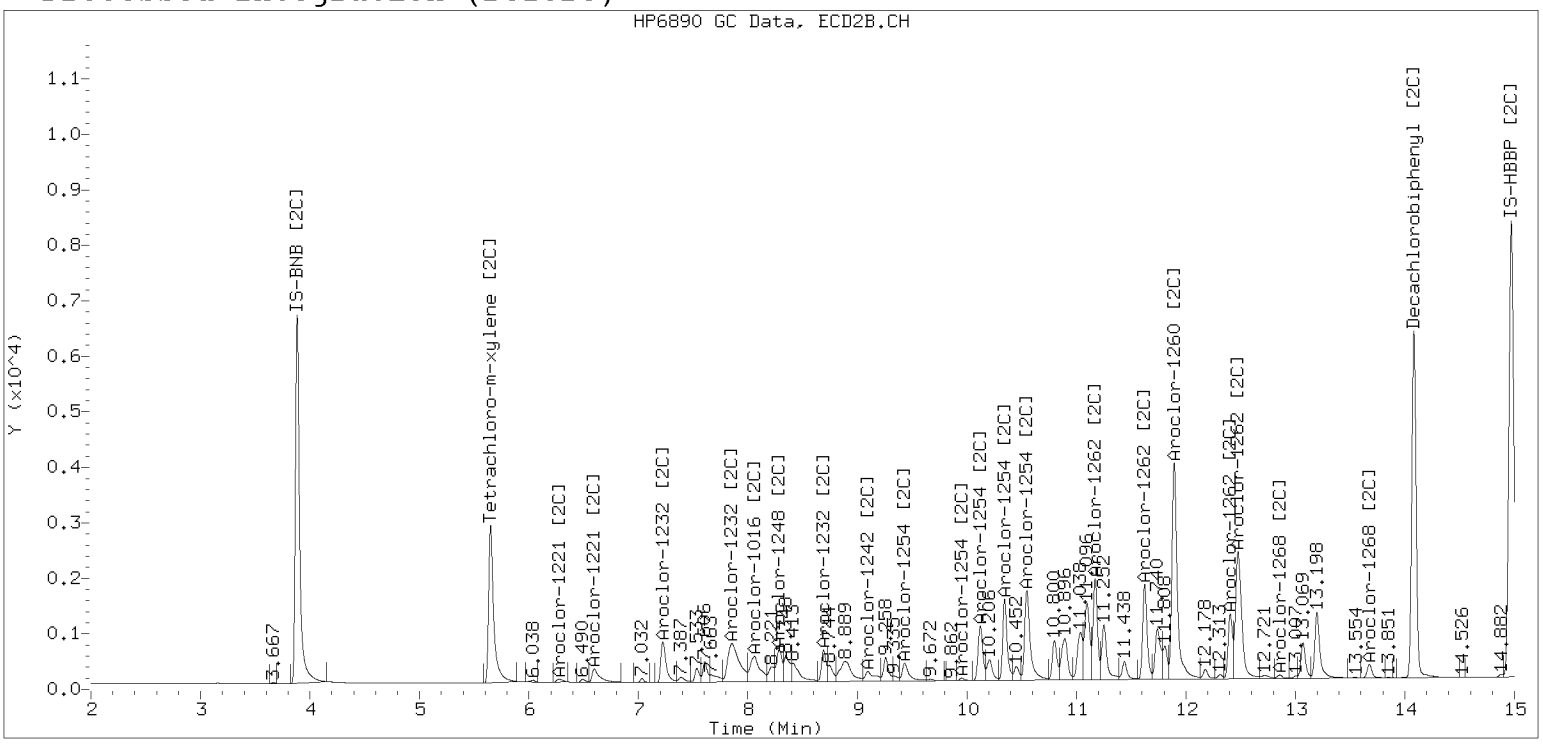
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282315ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00002
Laboratory ID: SLD0427-SCV2
Sequence: SLD0427
Sequence Name: AR1242SCV2
Standard ID: L003970

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	238	-4.9	20.00
Aroclor 1242 [2C]	250.00	249	-0.3	20.00
Decachlorobiphenyl	40.000	40.7	1.7	20.00
Tetrachlorometaxylene	40.000	33.9	-15.4	20.00
Decachlorobiphenyl [2C]	40.000	43.6	8.9	20.00
Tetrachlorometaxylene [2C]	40.000	32.6	-18.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282316ECD7.D
Data file 2: /230428.b/230428.b/04282316ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 28-APR-2023 16:30
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	292500	5.650	-0.001	164326	33.9	32.6	3.7	Tetrachloro-m-xylene
13.864	0.002	517644	14.083	-0.001	393716	40.7	43.6	6.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	591263	6.3
Hexabromobiphenyl	745660	1174114	57.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	358789	3.0
Hexabromobiphenyl	429949	558275	29.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.001	42869	187.5	1	7.224	0.002	36830	189.5
Aroclor-1016	2	7.642	0.014	116563	192.3	2	7.859	0.015	74679	194.4
Aroclor-1016	3	7.767	0.004	72620	177.0	3	8.061	0.007	42627	180.4
Aroclor-1016	4	8.381	0.005	41808	195.2	4	8.287	0.006	31937	181.4
Total Col1Ave (4 peaks):		188.0				Total Col2Ave (4 peaks):		186.4	RPD = 1	
Corrected Ave (3 peaks):		185.6				Corrected Ave (3 peaks):		183.8	RPD = 1	
Aroclor-1221	1	4.687	0.005	261	5.8	1	---			0.0
Aroclor-1221	2	6.092	-0.002	5439	59.9	2	6.288	0.022	3034	53.3
Aroclor-1221	3	6.348	0.002	27795	129.1	3	6.597	0.003	16171	124.2
Total Col1Ave (3 peaks):		64.9				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.687	0.004	261	9.1	1	---			0.0
Aroclor-1232	2	6.092	-0.002	5439	85.4	2	7.224	-0.001	36830	428.8
Aroclor-1232	3	7.642	-0.009	116563	461.7	3	7.859	-0.003	74679	440.5
Aroclor-1232	4	8.560	-0.004	60506	514.6	4	8.693	-0.001	25516	488.8
Total Col1Ave (4 peaks):		267.7				Total Col2Ave (3 peaks):		452.7	RPD = 51*	
Corrected Ave (3 peaks):		185.4				Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.237	0.000	42869	232.4	1	7.224	0.002	36830	236.3
Aroclor-1242	2	7.642	0.003	116563	231.1	2	7.859	0.001	74679	239.5
Aroclor-1242	3	8.381	-0.000	41808	246.5	3	9.173	0.005	27704	256.9
Aroclor-1242	4	8.560	-0.001	60506	241.1	4	9.602	-0.001	29247	264.2
Total Col1Ave (4 peaks):		237.8				Total Col2Ave (4 peaks):		249.2	RPD = 5	
Corrected Ave (3 peaks):		234.9				Corrected Ave (3 peaks):		244.2	RPD = 4	
Aroclor-1248	1	8.381	0.002	41808	146.4	1	8.693	0.408	25516	135.6
Aroclor-1248	2	8.560	0.000	60506	159.7	2	8.890	0.199	41427	250.0
Aroclor-1248	3	8.967	0.003	153088	135.4	3	9.258	0.094	51085	251.4
Aroclor-1248	4	9.276	0.004	79463	133.8	4	9.433	-0.160	16032	74.0
Total Col1Ave (4 peaks):		143.8				Total Col2Ave (4 peaks):		177.7	RPD = 21	
Corrected Ave (3 peaks):		138.5				Corrected Ave (3 peaks):		153.2	RPD = 10	
Aroclor-1254	1	9.276	-0.000	79463	124.4	1	9.433	0.004	16032	59.8
Aroclor-1254	2	9.354	-0.004	29048	96.0	2	9.602	0.074	29247	178.9
Aroclor-1254	3	9.654	0.006	18218	45.1	3	9.955	0.005	10890	50.2
Aroclor-1254	4	9.799	0.009	31107	37.9	4	10.114	0.004	21158	45.0
Aroclor-1254	5	10.188	0.019	22524	52.2	5	10.380	0.024	20273	37.5
Total Col1Ave (5 peaks):		71.1				Total Col2Ave (5 peaks):		74.3	RPD = 4	
Corrected Ave (4 peaks):		57.8				Corrected Ave (4 peaks):		48.1	RPD = 18	
Aroclor-1260	1	11.022	0.005	1107	1.7	1	11.645	0.021	2082	5.2
Aroclor-1260	2	11.341	0.007	839	1.2	2	11.903	0.011	1433	1.4
Aroclor-1260	3	11.721	0.011	1240	0.7	3	12.477	0.071	1326	5.6
Aroclor-1260	4	12.127	0.011	1362	1.6	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks):		1.3				Total Col2Ave (3 peaks):		4.1	RPD = 103*	
Corrected Ave (3 peaks):		1.2				Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.818	0.009	16810	36.7	1	11.105	-0.068	10045	18.0
Aroclor-1262	2	12.127	-0.090	1362	1.7	2	11.645	0.021	2082	4.4
Aroclor-1262	3	12.308	0.016	110	0.1	3	12.477	0.074	1326	2.7
Aroclor-1262	4	13.018	0.056	1070	1.5	4	---			0.0
Total Col1Ave (4 peaks):		10.0				Total Col2Ave (3 peaks):		8.4	RPD = 18	
Corrected Ave (3 peaks):		1.1				Corrected Ave: < 3 Peaks				
Aroclor-1268	1	12.308	0.090	110	0.1	1	12.477	0.074	1326	1.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.671	0.001	2482	1.4	3	12.861	0.003	1233	1.0
Aroclor-1268	4	13.468	0.007	10976	2.2	4	13.676	-0.000	2739	0.7
Total Col1Ave (3 peaks):		1.2				Total Col2Ave (3 peaks):		0.9	RPD = 27	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 1193104 Col1 Total PCB = 0.2 ppm*

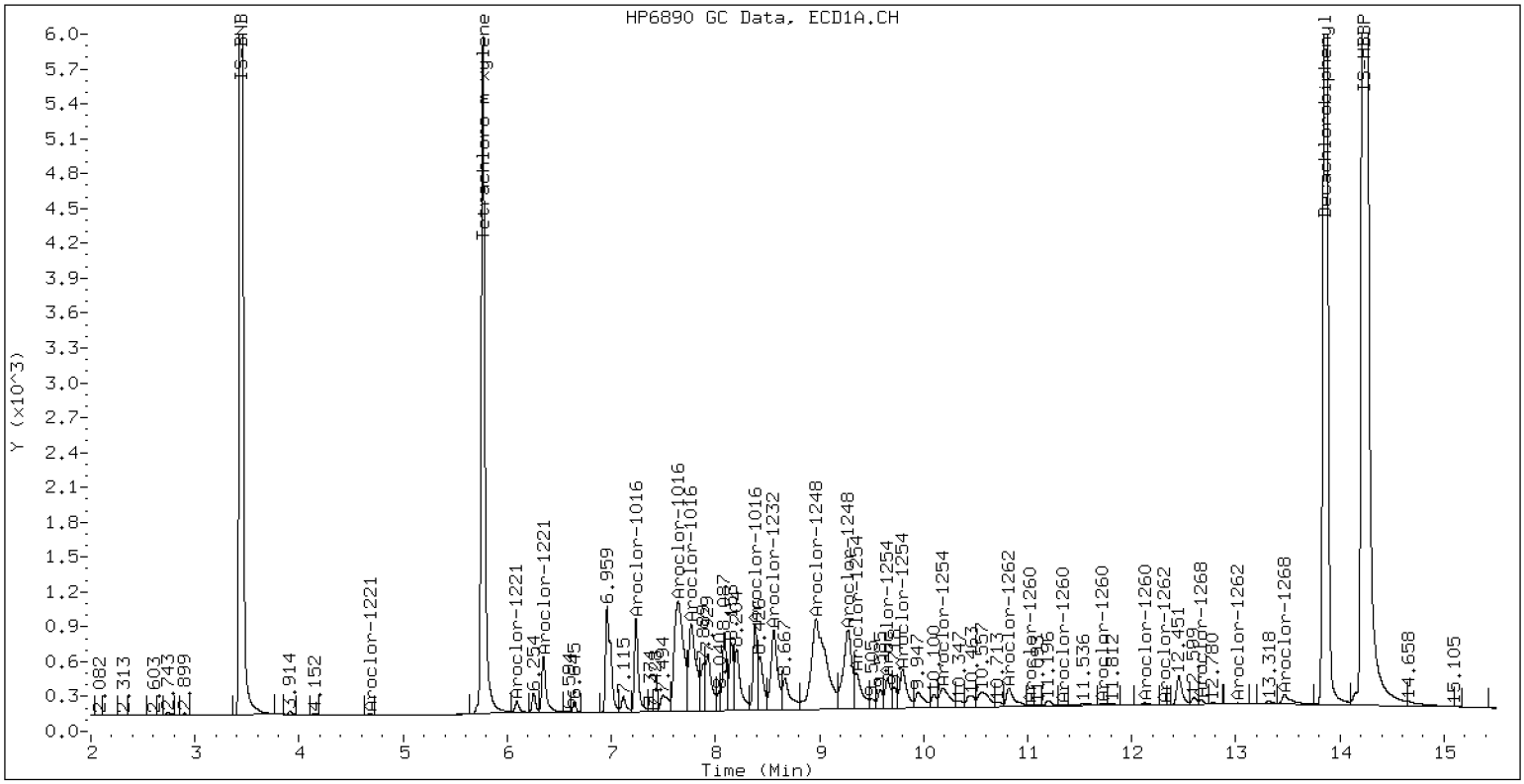
Total PCB Area Col2 (5.751 - 13.984) = 682890 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

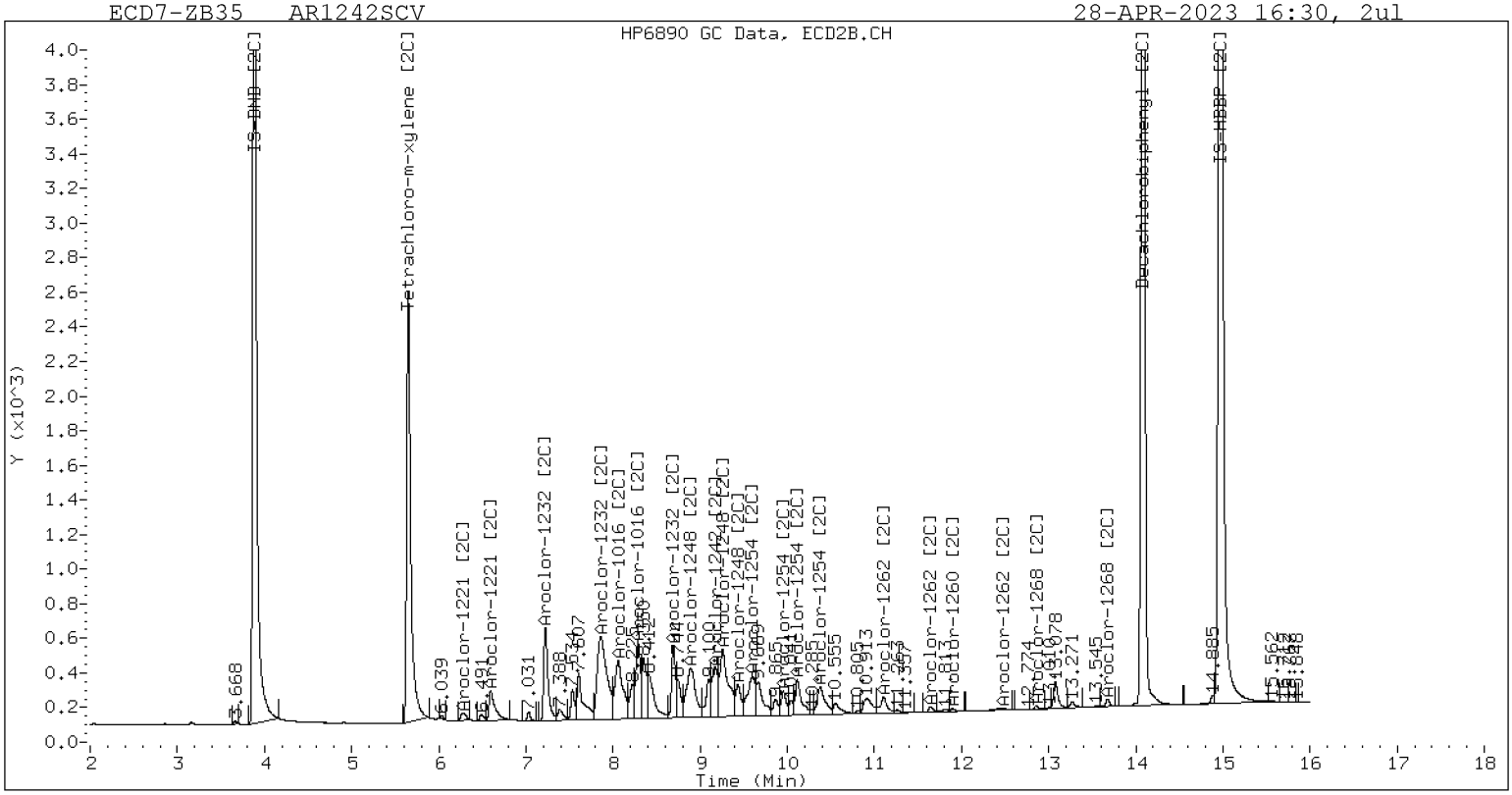
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 28-APR-2023 16:30, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242SCV 28-APR-2023 16:30, 2ul

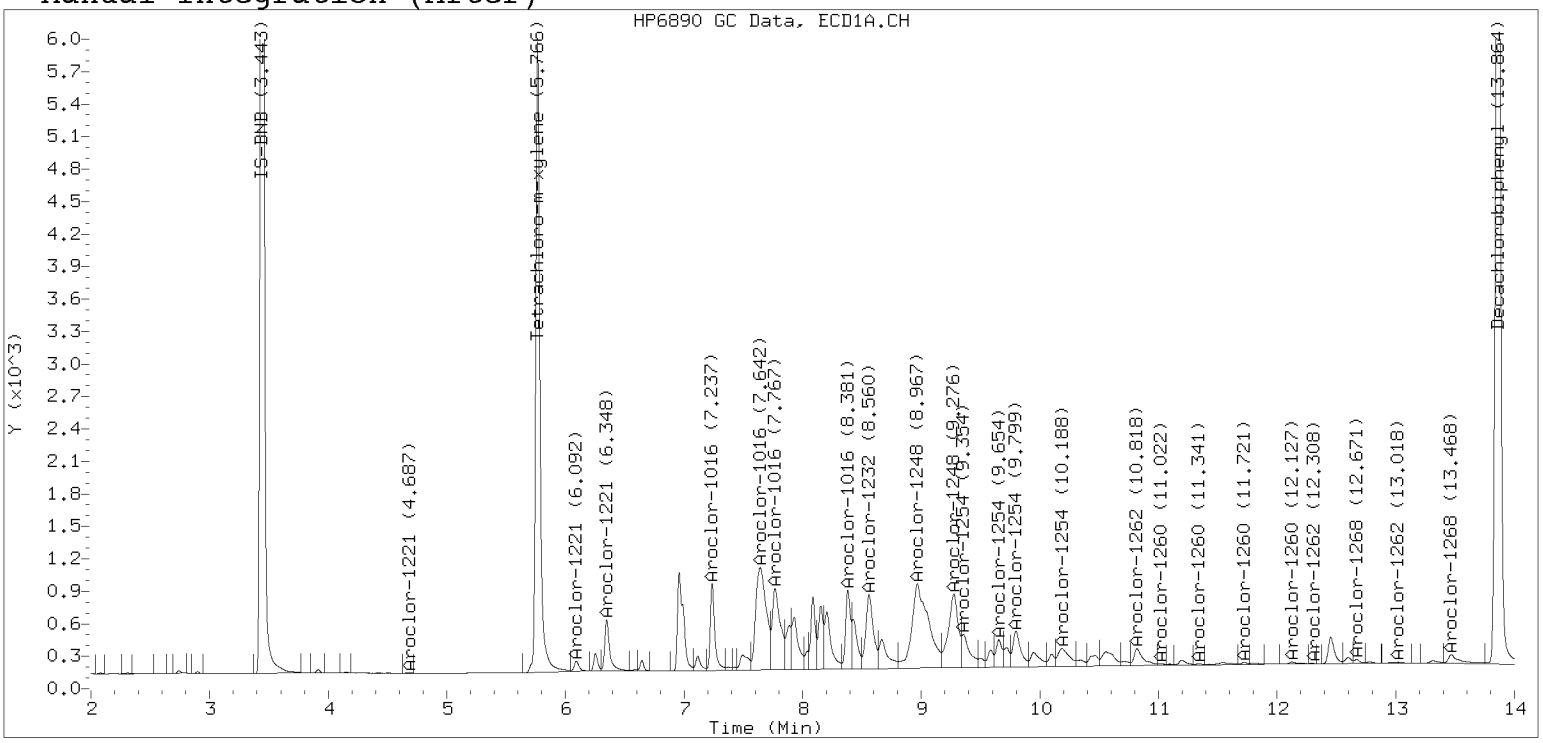


ZB-35 Manual Integration: YES

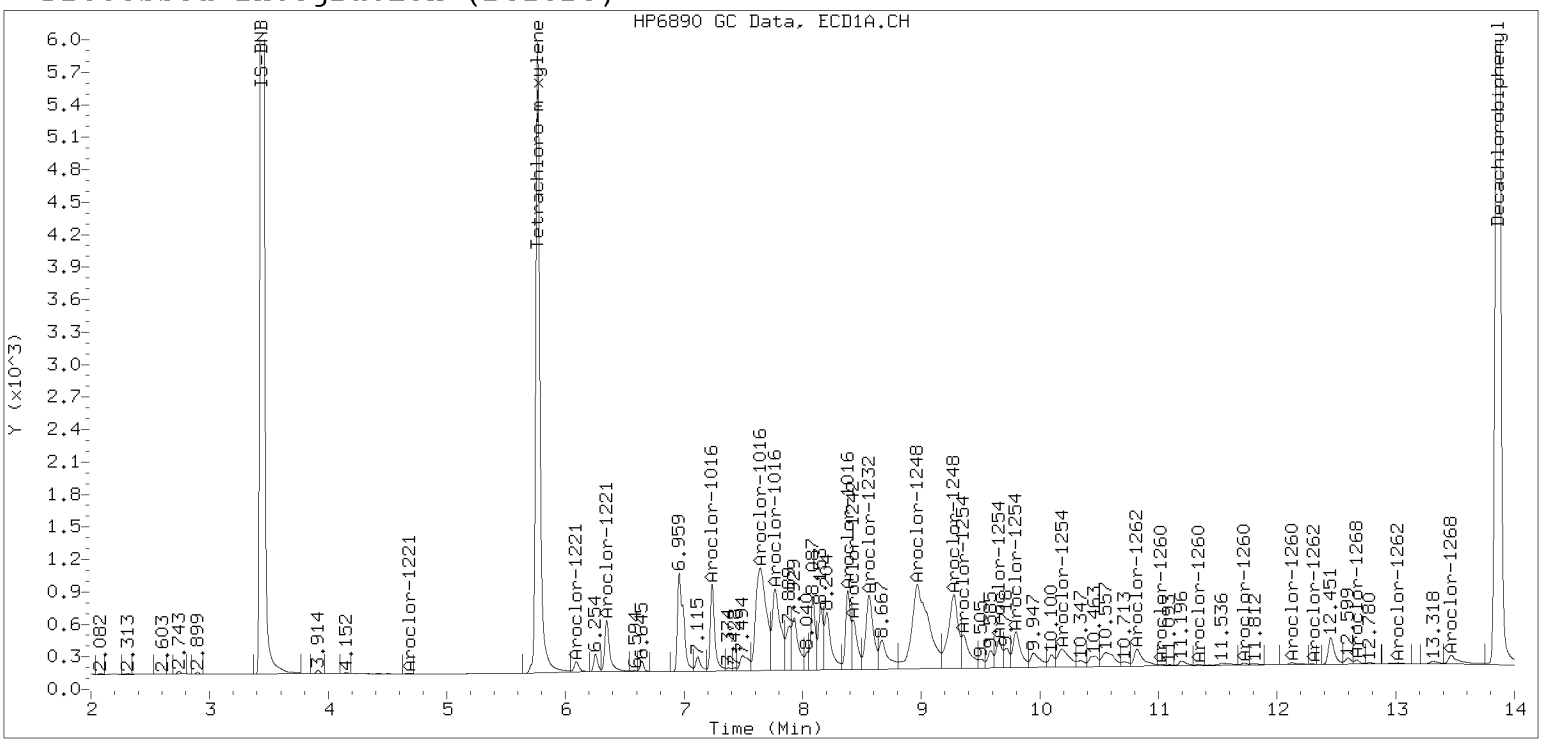
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282316ECD7.D Injection Date: 28-APR-2023 16:30

Manual Integration (After)



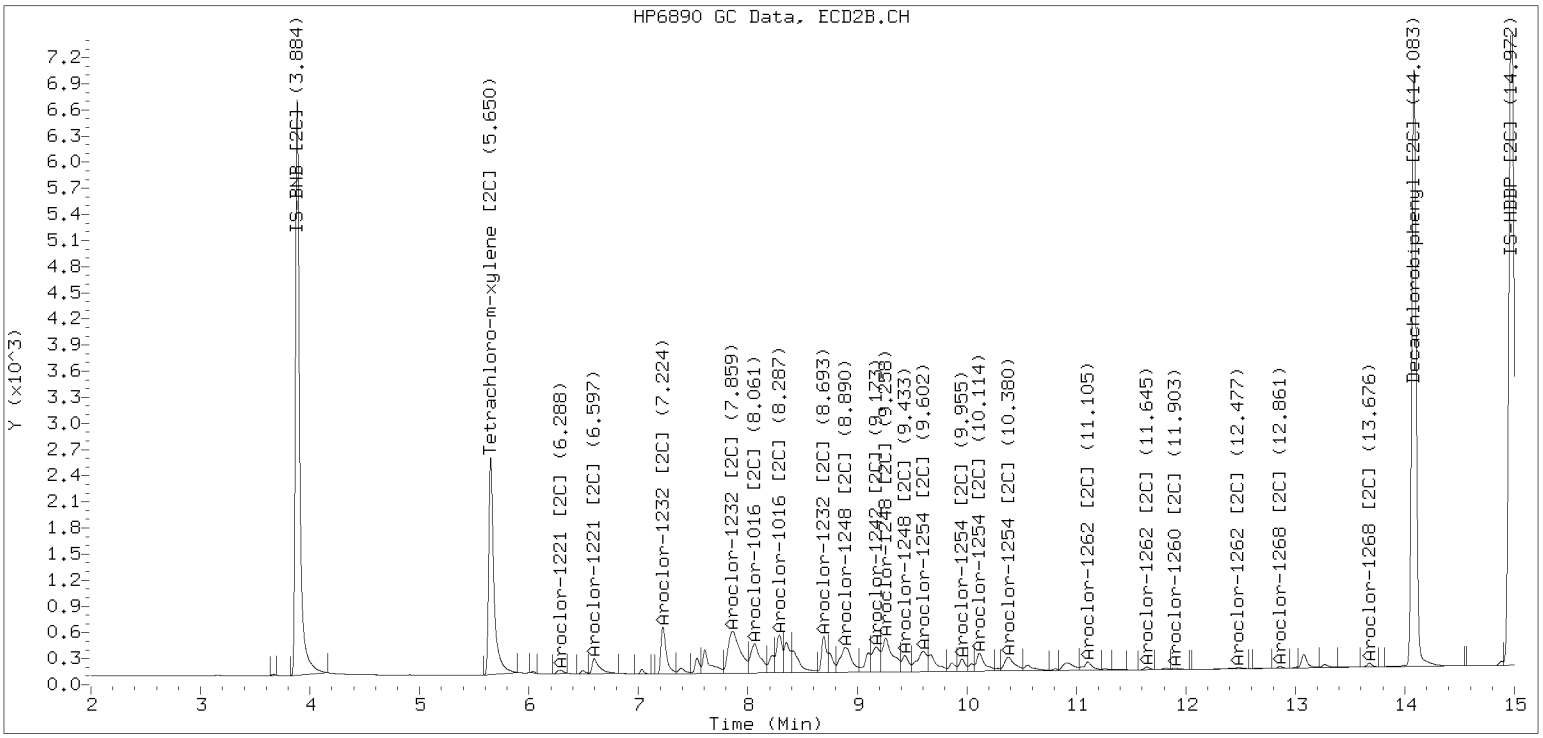
Processed Integration (Before)



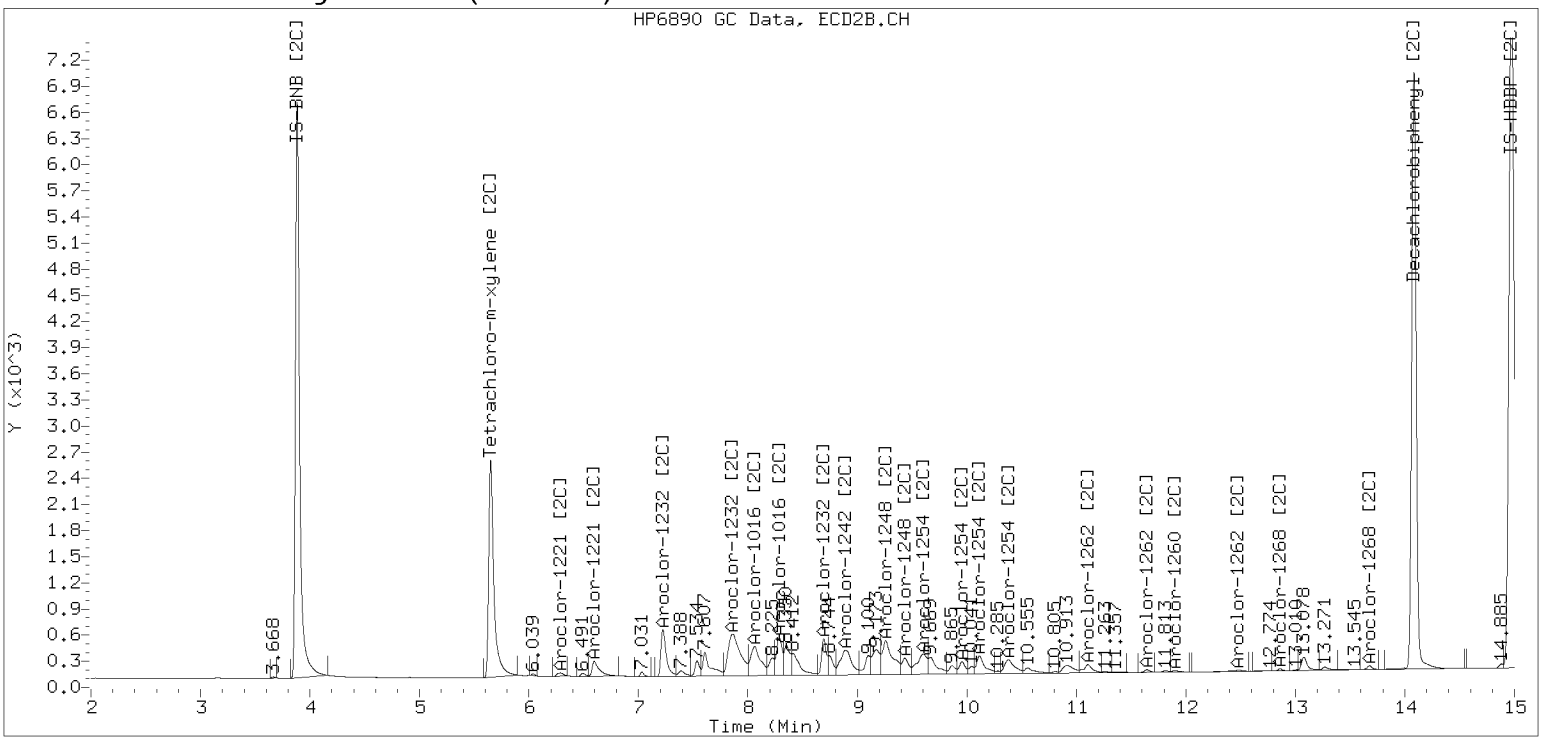
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282316ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00002
Laboratory ID: SLD0427-SCV3
Sequence: SLD0427
Sequence Name: AR1248SCV3
Standard ID: L002066

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	257	2.9	20.00
Aroclor 1248 [2C]	250.00	256	2.2	20.00
Decachlorobiphenyl	40.000	34.9	-12.8	20.00
Tetrachlorometaxylene	40.000	37.4	-6.6	20.00
Decachlorobiphenyl [2C]	40.000	38.0	-5.1	20.00
Tetrachlorometaxylene [2C]	40.000	36.7	-8.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282317ECD7.D
Data file 2: /230428.b/230428.b/04282317ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 28-APR-2023 16:51
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	329945	5.650	-0.001	187741	37.4	36.7	1.8	Tetrachloro-m-xylene
13.863	0.002	459099	14.084	0.000	349285	34.9	38.0	8.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	604265	8.6
Hexabromobiphenyl	745660	1214161	62.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	364434	4.6
Hexabromobiphenyl	429949	568134	32.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	19001	81.3	1	7.223	0.002	18808	95.3
Aroclor-1016	2	7.640	0.012	74331	120.0	2	7.860	0.016	45610	116.9
Aroclor-1016	3	7.763	0.000	48390	115.4	3	8.066	0.011	19913	83.0
Aroclor-1016	4	8.380	0.004	75928	347.0	4	8.285	0.004	48388	270.6
Total Col1Ave (4 peaks):		165.9				Total Col2Ave (4 peaks):		141.4	RPD = 16	
Corrected Ave (3 peaks):		105.6				Corrected Ave (3 peaks):		98.4	RPD = 7	
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.088	-0.005	1143	12.3	2	6.298	0.033	1993	34.5
Aroclor-1221	3	6.349	0.002	3172	14.4	3	6.608	0.014	1326	10.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.088	-0.005	1143	17.6	2	7.223	-0.002	18808	215.6
Aroclor-1232	3	7.640	-0.012	74331	288.1	3	7.860	-0.003	45610	264.9
Aroclor-1232	4	8.559	-0.004	98972	823.6	4	8.691	-0.002	42787	807.0
Total Col1Ave (3 peaks):		376.4				Total Col2Ave (3 peaks):		429.1	RPD = 13	
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.237	0.001	19001	100.8	1	7.223	0.001	18808	118.8
Aroclor-1242	2	7.640	0.001	74331	144.2	2	7.860	0.001	45610	144.0
Aroclor-1242	3	8.380	-0.001	75928	438.1	3	8.691	-0.476	42787	390.6
Aroclor-1242	4	8.559	-0.001	98972	385.9	4	8.885	-0.718	60719	540.0
Total Col1Ave (4 peaks):		267.2				Total Col2Ave (4 peaks):		298.3	RPD = 11	
Corrected Ave (3 peaks):		210.3				Corrected Ave (3 peaks):		217.8	RPD = 4	
Aroclor-1248	1	8.380	0.002	75928	260.1	1	8.285	0.000	48388	253.1
Aroclor-1248	2	8.559	0.000	98972	255.7	2	8.691	0.000	42787	254.2
Aroclor-1248	3	8.963	-0.001	294362	254.8	3	9.165	0.001	53988	261.5
Aroclor-1248	4	9.271	0.000	156668	258.2	4	9.587	-0.007	55820	253.5
Total Col1Ave (4 peaks):		257.2				Total Col2Ave (4 peaks):		255.6	RPD = 1	
Corrected Ave (3 peaks):		256.2				Corrected Ave (3 peaks):		253.6	RPD = 1	
Aroclor-1254	1	9.271	-0.004	156668	240.0	1	9.430	0.001	28754	105.5
Aroclor-1254	2	9.355	-0.004	60054	194.1	2	9.587	0.059	55820	336.1
Aroclor-1254	3	9.651	0.003	41060	99.5	3	9.952	0.002	23054	104.5
Aroclor-1254	4	9.793	0.004	73186	87.3	4	10.109	-0.001	44343	92.9
Aroclor-1254	5	10.182	0.013	49460	112.2	5	10.379	0.023	41423	75.5
Total Col1Ave (5 peaks):		146.6				Total Col2Ave (5 peaks):		142.9	RPD = 3	
Corrected Ave (4 peaks):		123.3				Corrected Ave (4 peaks):		94.6	RPD = 26	
Aroclor-1260	1	11.026	0.009	2009	2.9	1	11.643	0.019	2501	6.2
Aroclor-1260	2	11.340	0.006	1228	1.8	2	11.901	0.009	2130	2.0
Aroclor-1260	3	11.721	0.011	1976	1.1	3	12.414	0.007	826	3.4
Aroclor-1260	4	12.127	0.011	1326	1.5	4	12.479	0.004	1478	2.0
Aroclor-1260	5	12.220	0.004	573	1.4	NS	---			----
Total Col1Ave (5 peaks):		1.7				Total Col2Ave (4 peaks):		3.4	RPD = 65*	
Corrected Ave (4 peaks):		1.4				Corrected Ave (3 peaks):		2.5	RPD = 54*	
Aroclor-1262	1	10.818	0.009	19667	41.5	1	11.104	-0.069	9341	16.4
Aroclor-1262	2	12.220	0.003	573	0.7	2	11.643	0.019	2501	5.2
Aroclor-1262	3	12.296	0.004	674	0.7	3	12.414	0.010	826	1.6
Aroclor-1262	4	12.967	0.005	1383	1.9	4	12.479	0.004	1478	1.7
Total Col1Ave (4 peaks):		11.2				Total Col2Ave (4 peaks):		6.3	RPD = 57*	
Corrected Ave (3 peaks):		1.1				Corrected Ave (3 peaks):		2.9	RPD = 88*	
Aroclor-1268	1	12.220	0.002	573	0.3	1	12.414	0.011	826	0.6
Aroclor-1268	2	12.296	0.005	674	0.3	2	12.479	0.008	1478	1.0
Aroclor-1268	3	12.671	0.002	2312	1.3	3	12.861	0.002	1020	0.8
Aroclor-1268	4	13.469	0.008	7516	1.4	4	13.678	0.001	2531	0.7
Total Col1Ave (4 peaks):		0.8				Total Col2Ave (4 peaks):		0.8	RPD = 6	
Corrected Ave (3 peaks):		0.6				Corrected Ave (3 peaks):		0.7	RPD = 13	

Total PCB Area Col1 (5.866 - 13.762) = 1600602 Col1 Total PCB = 0.2 ppm*

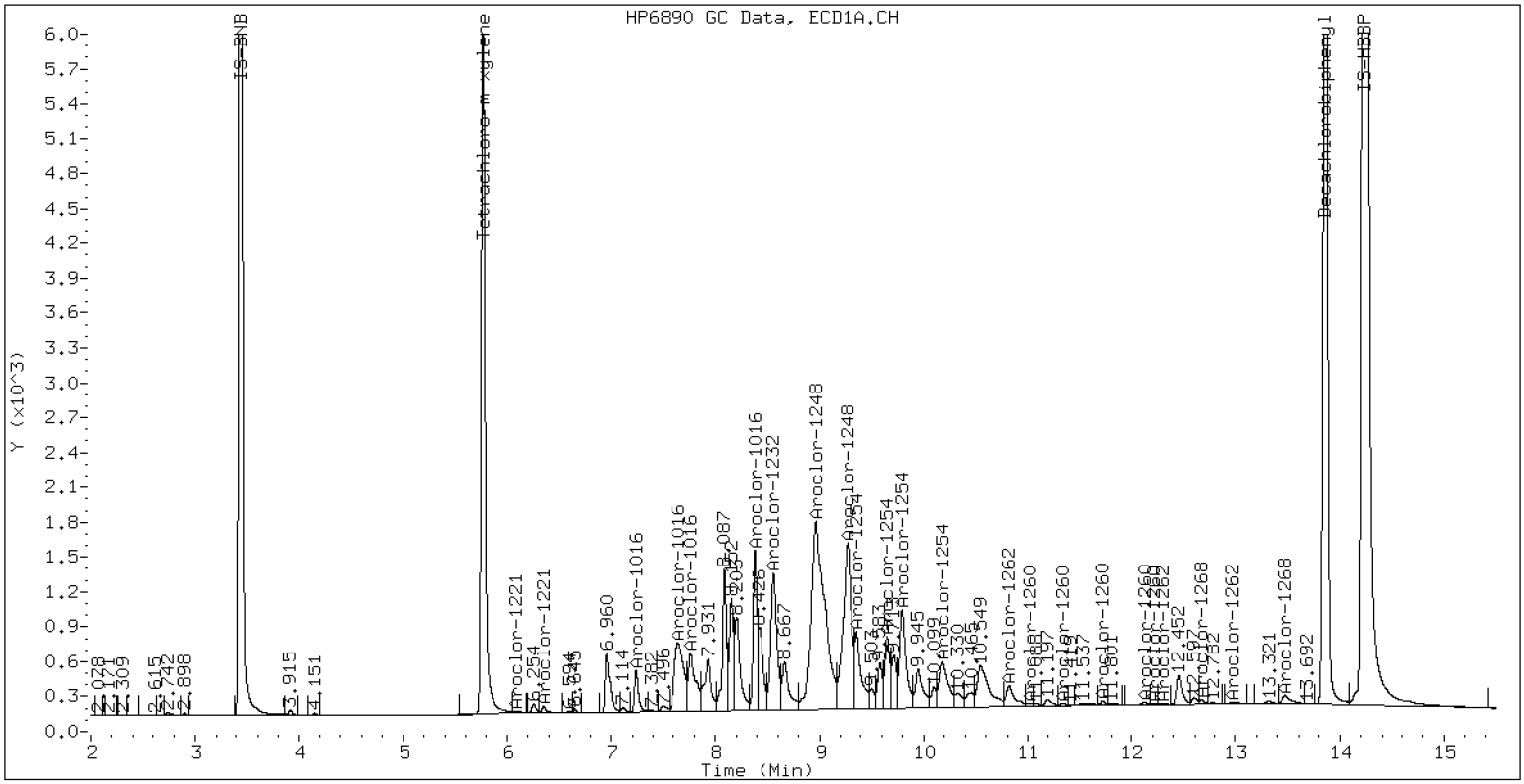
Total PCB Area Col2 (5.751 - 13.984) = 860562 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

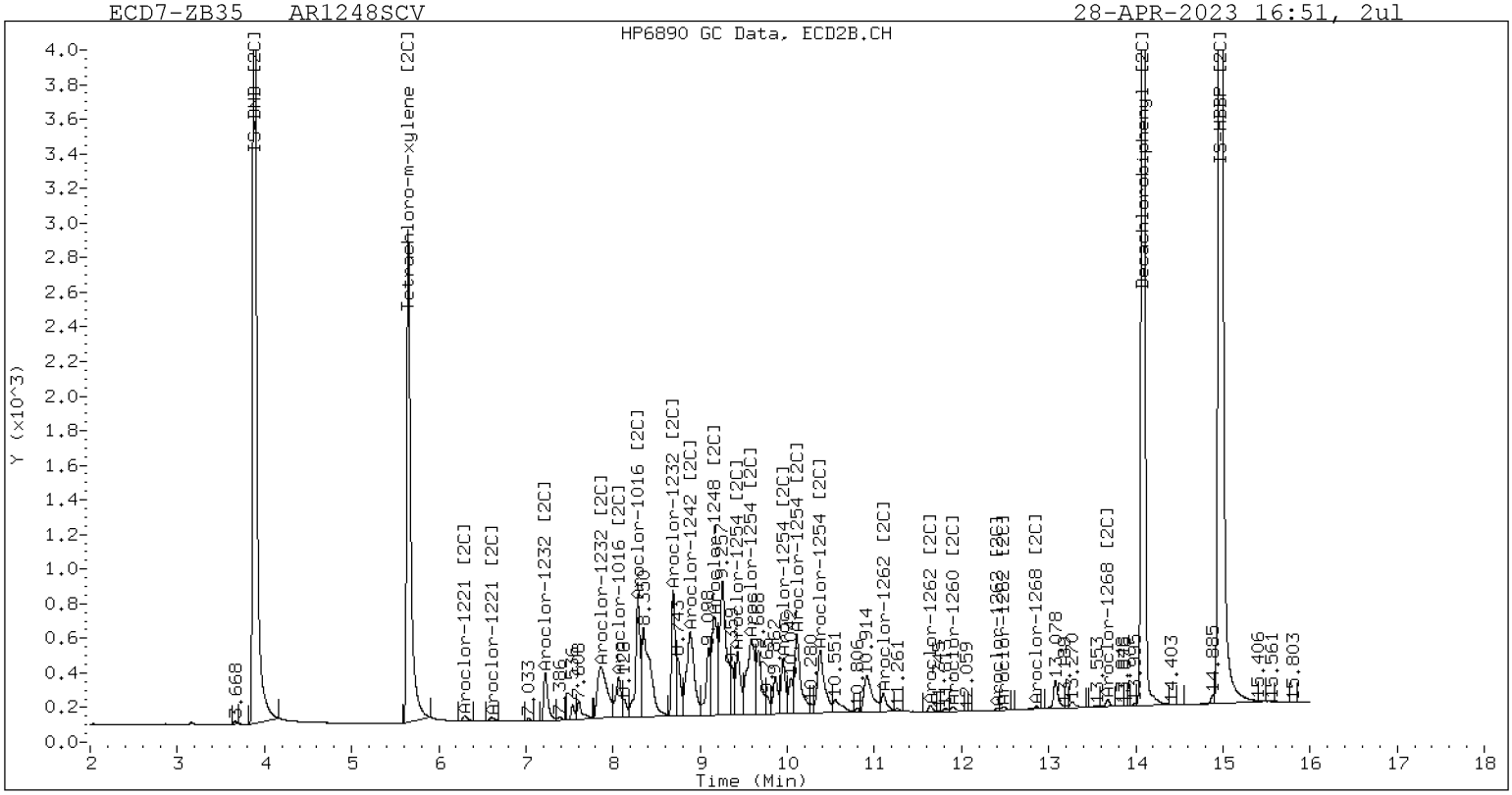
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 28-APR-2023 16:51, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248SCV 28-APR-2023 16:51, 2ul

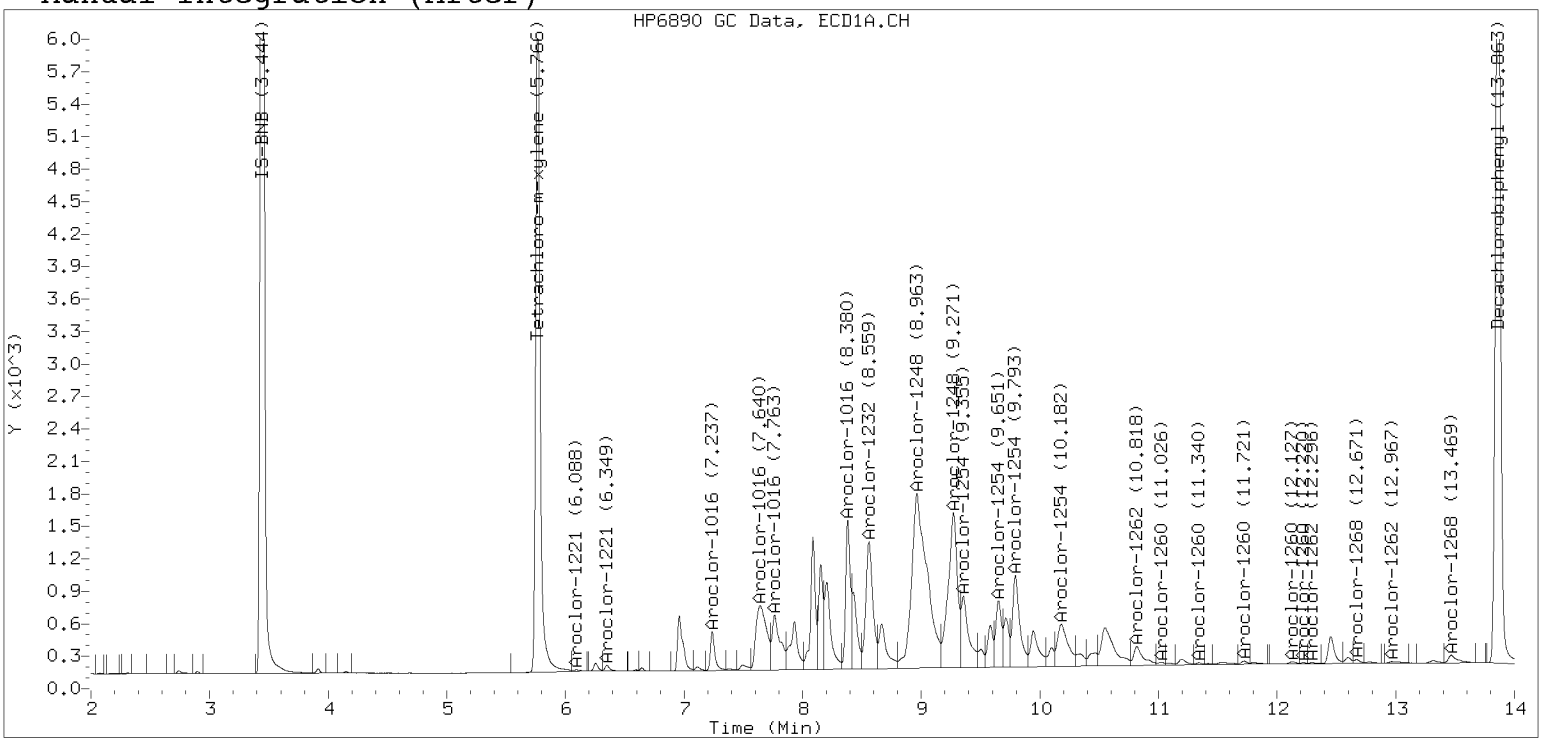


ZB-35 Manual Integration: YES

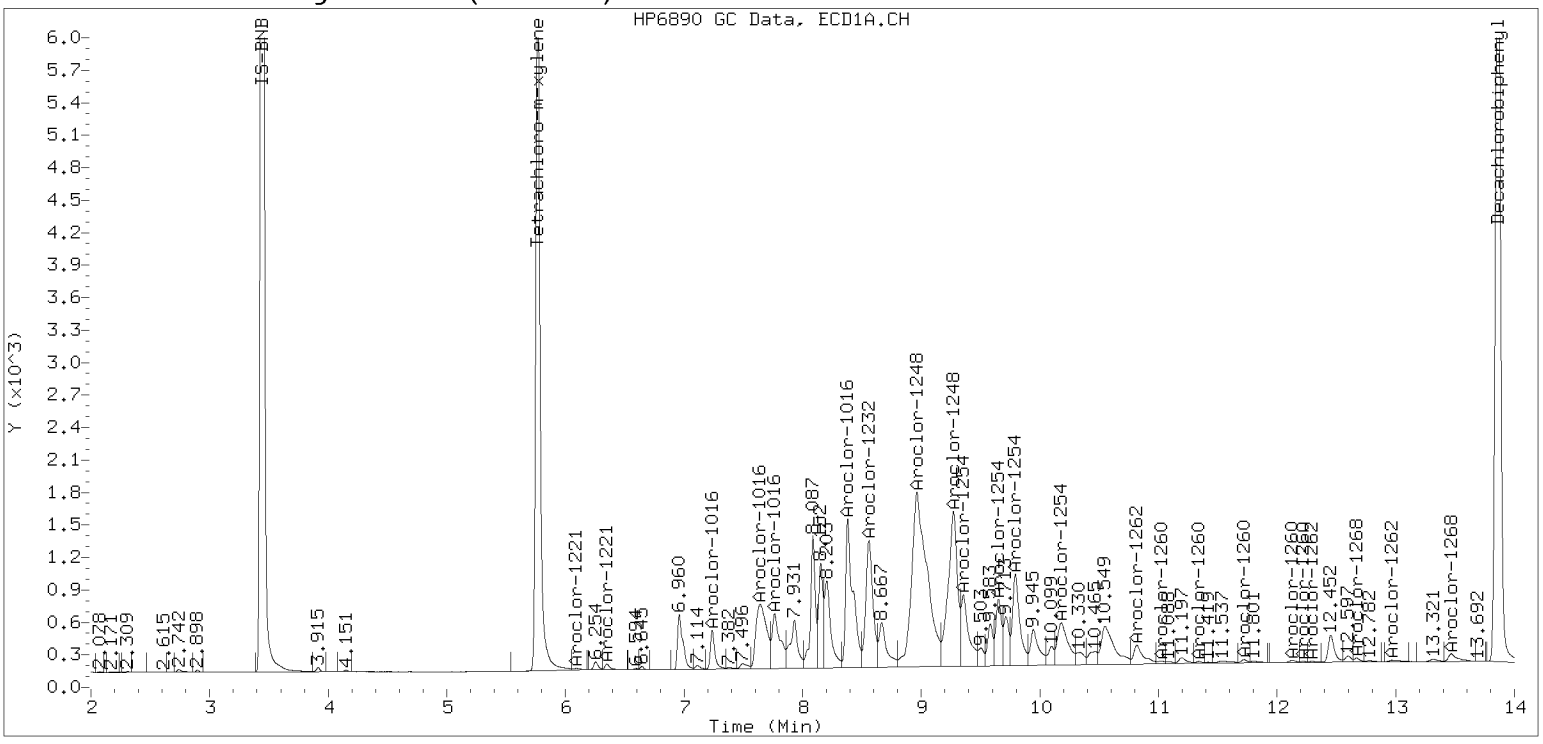
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282317ECD7.D Injection Date: 28-APR-2023 16:51

Manual Integration (After)



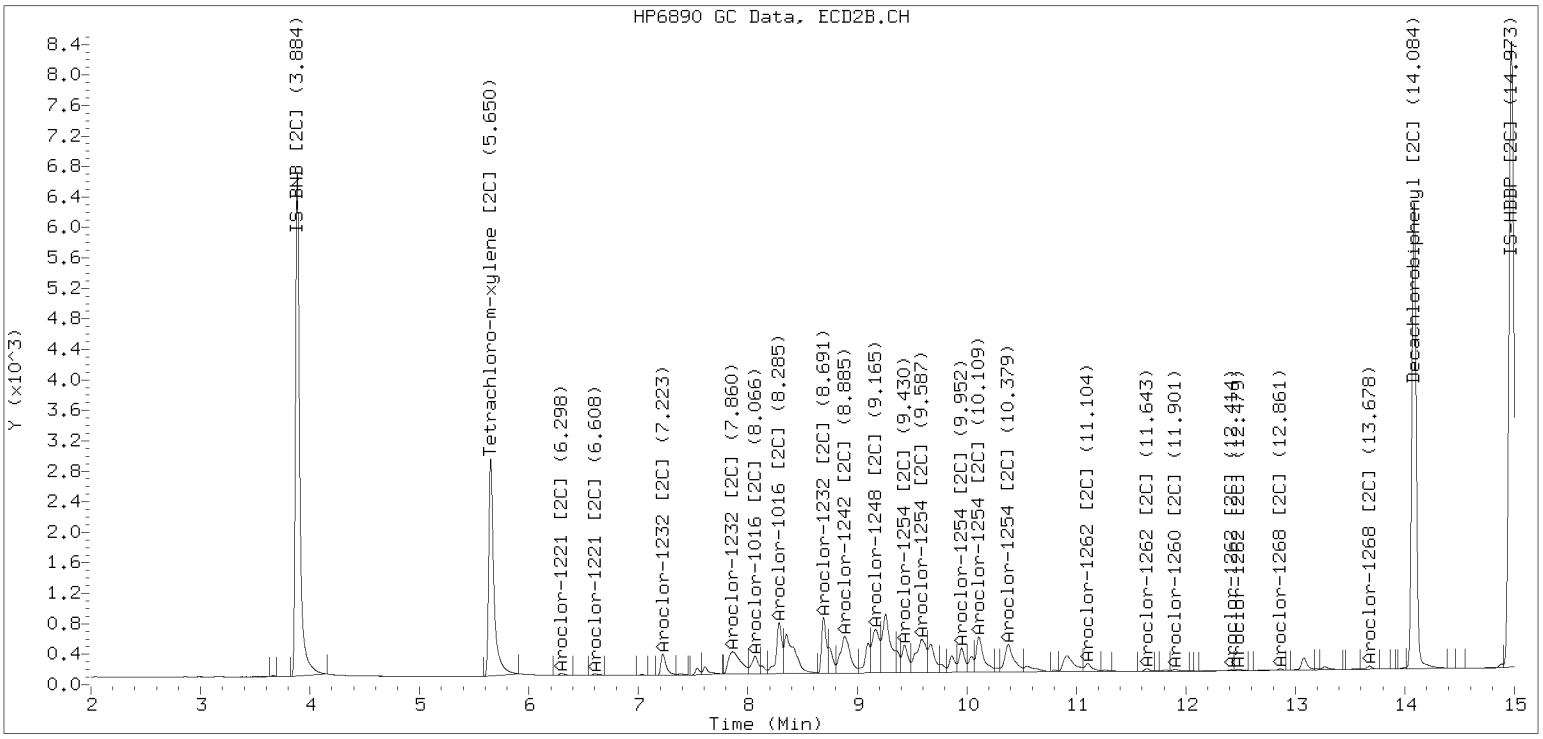
Processed Integration (Before)



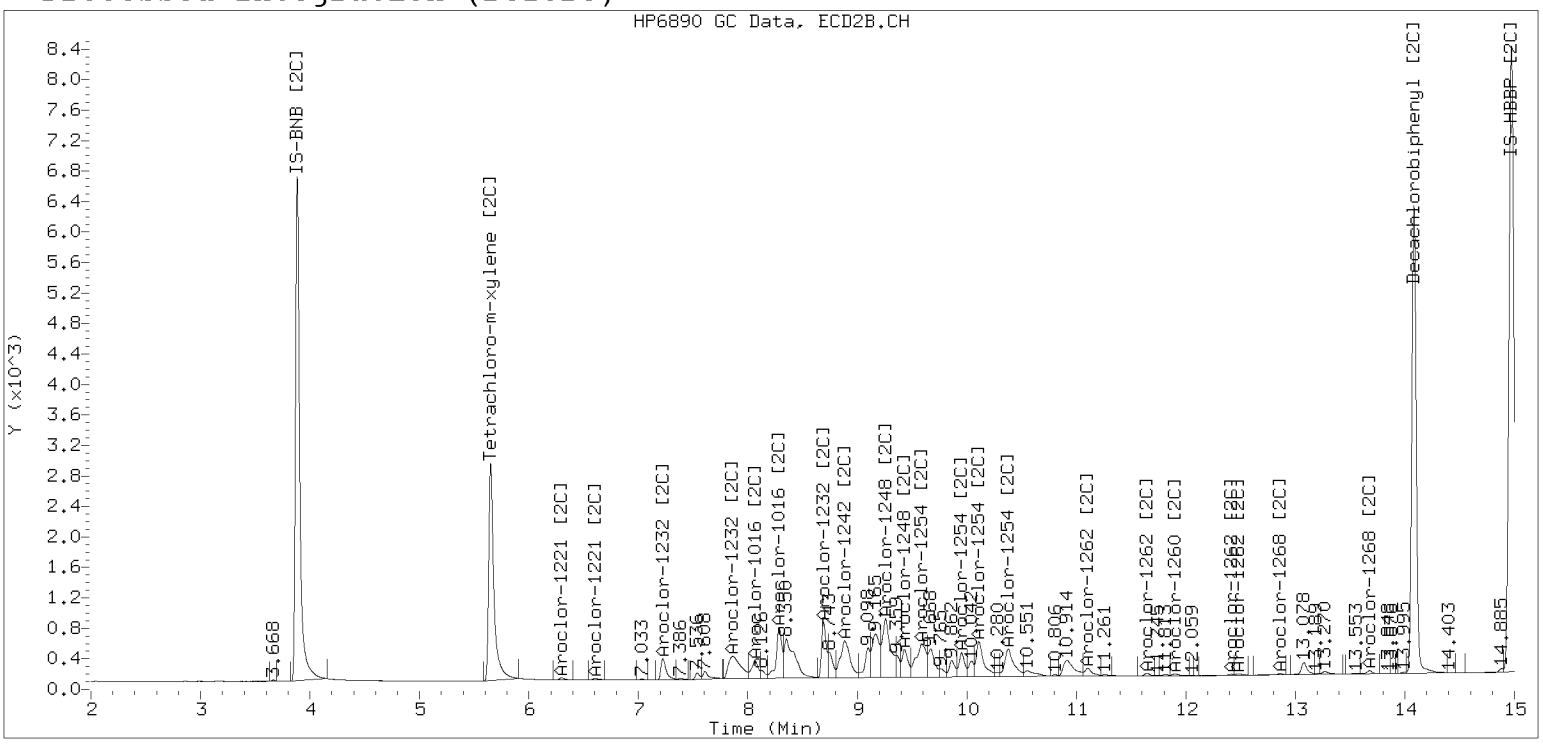
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282317ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00002
Laboratory ID: SLD0427-SCV4
Sequence: SLD0427
Sequence Name: AR1254SCV4
Standard ID: L002067

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	242	-3.4	20.00
Aroclor 1254 [2C]	250.00	234	-6.2	20.00
Decachlorobiphenyl	40.000	34.8	-13.0	20.00
Tetrachlorometaxylene	40.000	38.3	-4.2	20.00
Decachlorobiphenyl [2C]	40.000	38.3	-4.1	20.00
Tetrachlorometaxylene [2C]	40.000	37.3	-6.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282318ECD7.D
Data file 2: /230428.b/230428.b/04282318ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 28-APR-2023 17:12
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	338365	5.650	-0.001	190789	38.3	37.3	2.7	Tetrachloro-m-xylene
13.863	0.001	478757	14.083	-0.001	359021	34.8	38.3	9.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	604006	8.6
Hexabromobiphenyl	745660	1269568	70.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	364366	4.6
Hexabromobiphenyl	429949	578129	34.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.239	0.004	417	1.8	1	7.234	0.013	203	1.0
Aroclor-1016	2	7.672	0.044	1503	2.4	2	---			0.0
Aroclor-1016	3	7.760	-0.003	1975	4.7	3	8.071	0.016	434	1.8
Aroclor-1016	4	8.383	0.006	29140	133.2	4	8.285	0.004	22382	125.2
	Total Col1Ave (4 peaks):				35.5	Total Col2Ave (3 peaks):				42.7 RPD = 18
	Corrected Ave (3 peaks):				3.0	Corrected Ave: < 3 Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.297	0.032	1765	30.5
Aroclor-1221	3	---			0.0	3	6.613	0.019	308	2.3
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.234	0.010	203	2.3
Aroclor-1232	3	7.672	0.020	1503	5.8	3	---			0.0
Aroclor-1232	4	8.568	0.004	12422	103.4	4	8.695	0.001	16356	308.5
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	7.239	0.002	417	2.2	1	7.234	0.012	203	1.3
Aroclor-1242	2	7.672	0.033	1503	2.9	2	---			0.0
Aroclor-1242	3	8.383	0.001	29140	168.2	3	8.695	-0.473	16356	149.3
Aroclor-1242	4	8.568	0.007	12422	48.5	4	8.889	-0.714	7125	63.4
	Total Col1Ave (4 peaks):				55.4	Total Col2Ave (3 peaks):				71.3 RPD = 25
	Corrected Ave (3 peaks):				17.9	Corrected Ave: < 3 Peaks				
Aroclor-1248	1	8.383	0.004	29140	99.9	1	8.695	0.410	16356	85.6
Aroclor-1248	2	8.568	0.008	12422	32.1	2	8.889	0.198	7125	42.3
Aroclor-1248	3	8.967	0.003	131799	114.1	3	9.259	0.095	58924	285.5
Aroclor-1248	4	9.276	0.005	155956	257.1	4	9.430	-0.164	67213	305.3
	Total Col1Ave (4 peaks):				125.8	Total Col2Ave (4 peaks):				179.7 RPD = 35
	Corrected Ave (3 peaks):				82.0	Corrected Ave (3 peaks):				137.8 RPD = 51*
Aroclor-1254	1	9.276	0.000	155956	239.0	1	9.430	0.000	67213	246.7
Aroclor-1254	2	9.356	-0.002	75626	244.6	2	9.527	-0.001	39667	238.9
Aroclor-1254	3	9.648	0.001	99996	242.4	3	9.950	-0.000	53621	243.2
Aroclor-1254	4	9.788	-0.001	198294	236.6	4	10.109	-0.001	114263	239.3
Aroclor-1254	5	10.164	-0.004	108093	245.4	5	10.355	-0.001	111846	203.8
	Total Col1Ave (5 peaks):				241.6	Total Col2Ave (5 peaks):				234.4 RPD = 3
	Corrected Ave (4 peaks):				240.7	Corrected Ave (4 peaks):				231.3 RPD = 4
Aroclor-1260	1	11.018	0.001	14792	20.6	1	11.639	0.015	34047	82.8
Aroclor-1260	2	11.338	0.005	15335	21.1	2	11.896	0.004	28313	26.2
Aroclor-1260	3	11.716	0.006	37253	19.7	3	12.479	0.072	16654	67.8
Aroclor-1260	4	12.122	0.006	28154	30.1	4	---			0.0
Aroclor-1260	5	12.293	0.077	2641	6.2	NS	---			----
	Total Col1Ave (5 peaks):				19.5	Total Col2Ave (3 peaks):				58.9 RPD = 100*
	Corrected Ave (4 peaks):				16.9	Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.810	0.002	229213	462.7	1	11.097	-0.076	148180	256.4
Aroclor-1262	2	12.293	0.076	2641	3.1	2	11.639	0.015	34047	69.9
Aroclor-1262	3	---			0.0	3	12.479	0.076	16654	32.5
Aroclor-1262	4	12.965	0.003	1702	2.2	4	---			0.0
	Total Col1Ave (3 peaks):				156.0	Total Col2Ave (3 peaks):				119.6 RPD = 26
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1268	1	12.293	0.075	2641	1.2	1	12.479	0.076	16654	12.5
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.672	0.003	2924	1.5	3	12.859	0.000	1168	0.9
Aroclor-1268	4	13.468	0.007	11477	2.1	4	13.677	0.000	2357	0.6
	Total Col1Ave (3 peaks):				1.6	Total Col2Ave (3 peaks):				4.7 RPD = 97*
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 2154735 Col1 Total PCB = 0.3 ppm*

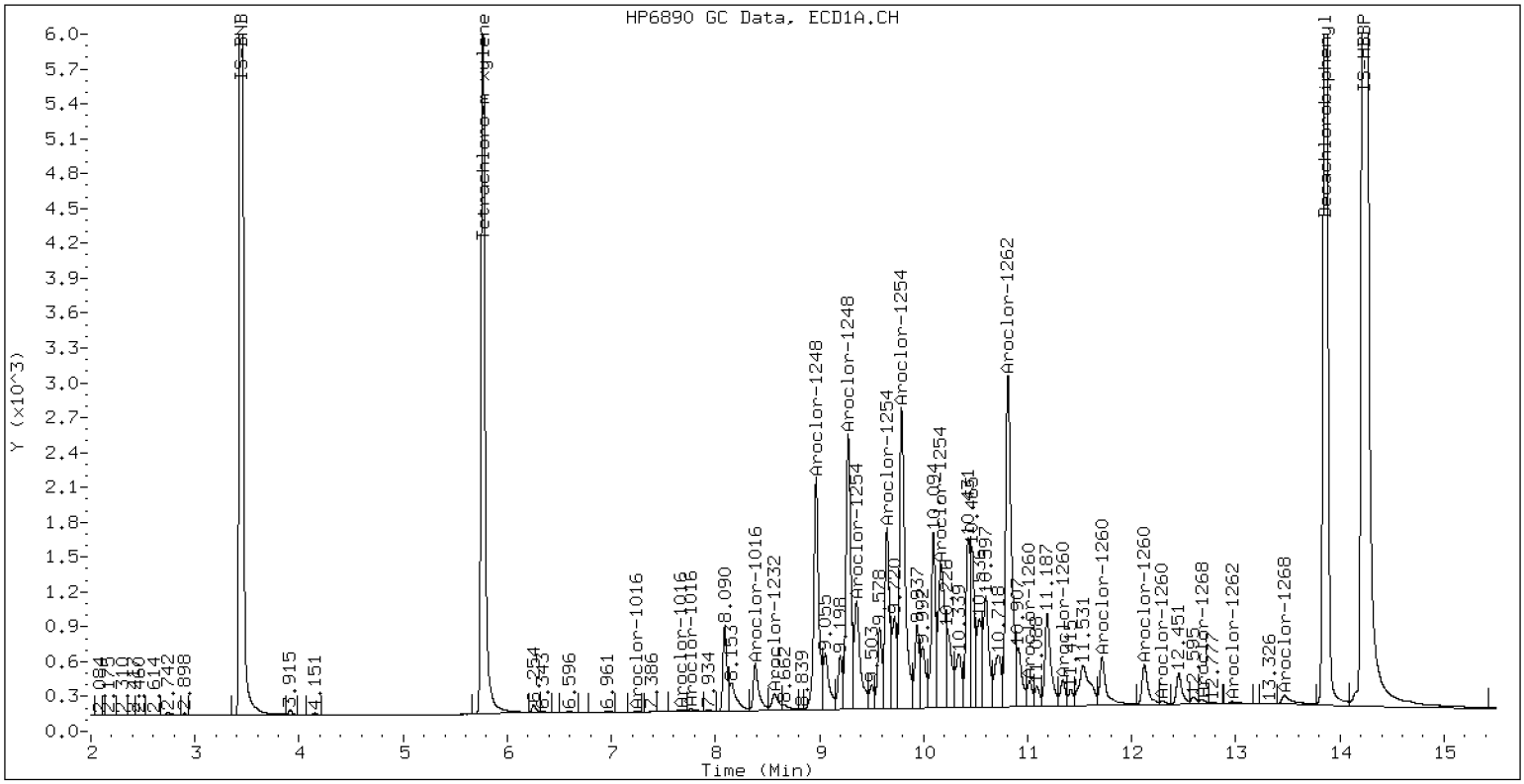
Total PCB Area Col2 (5.751 - 13.984) = 1162346 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

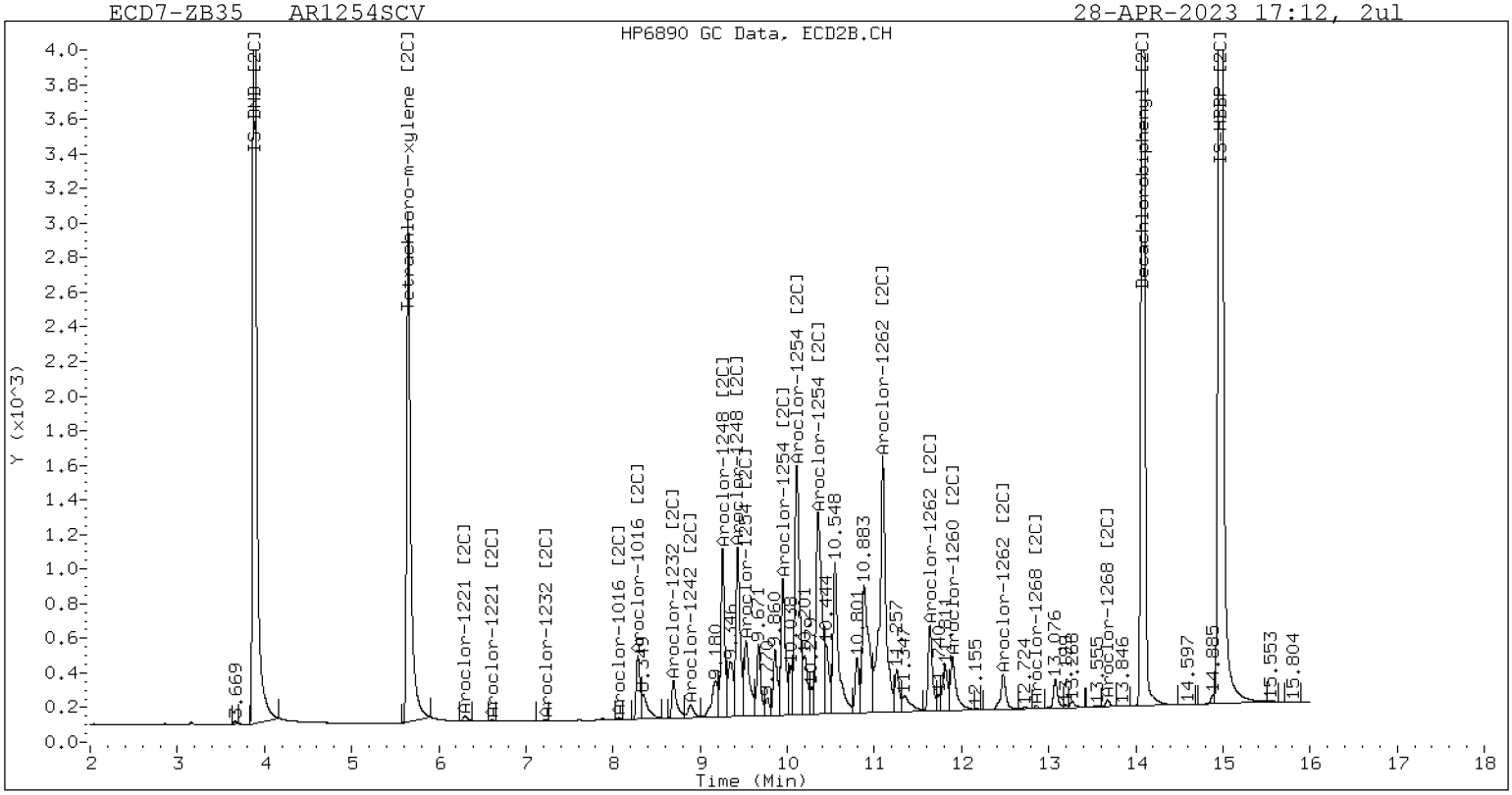
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 28-APR-2023 17:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254SCV 28-APR-2023 17:12, 2ul

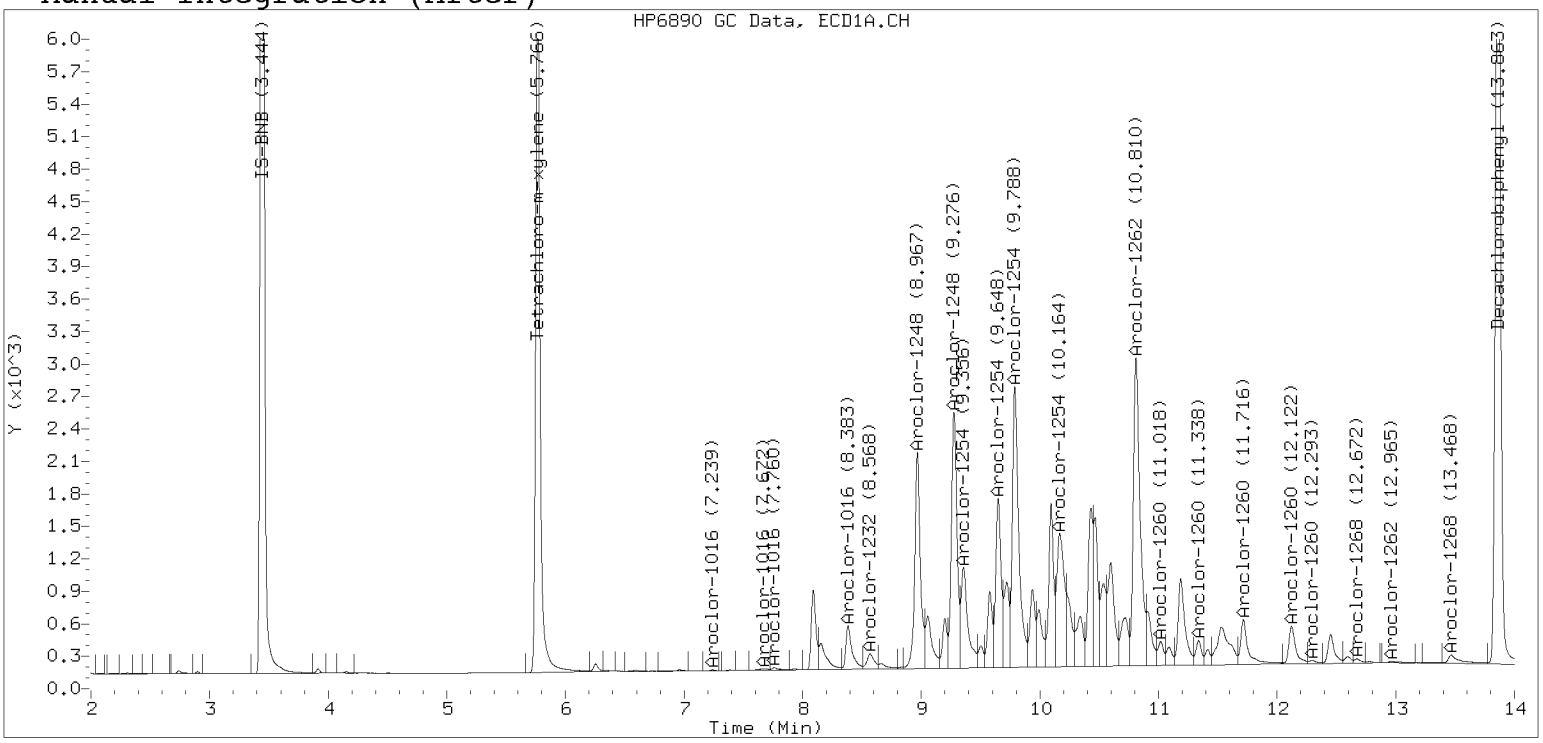


ZB-35 Manual Integration: YES

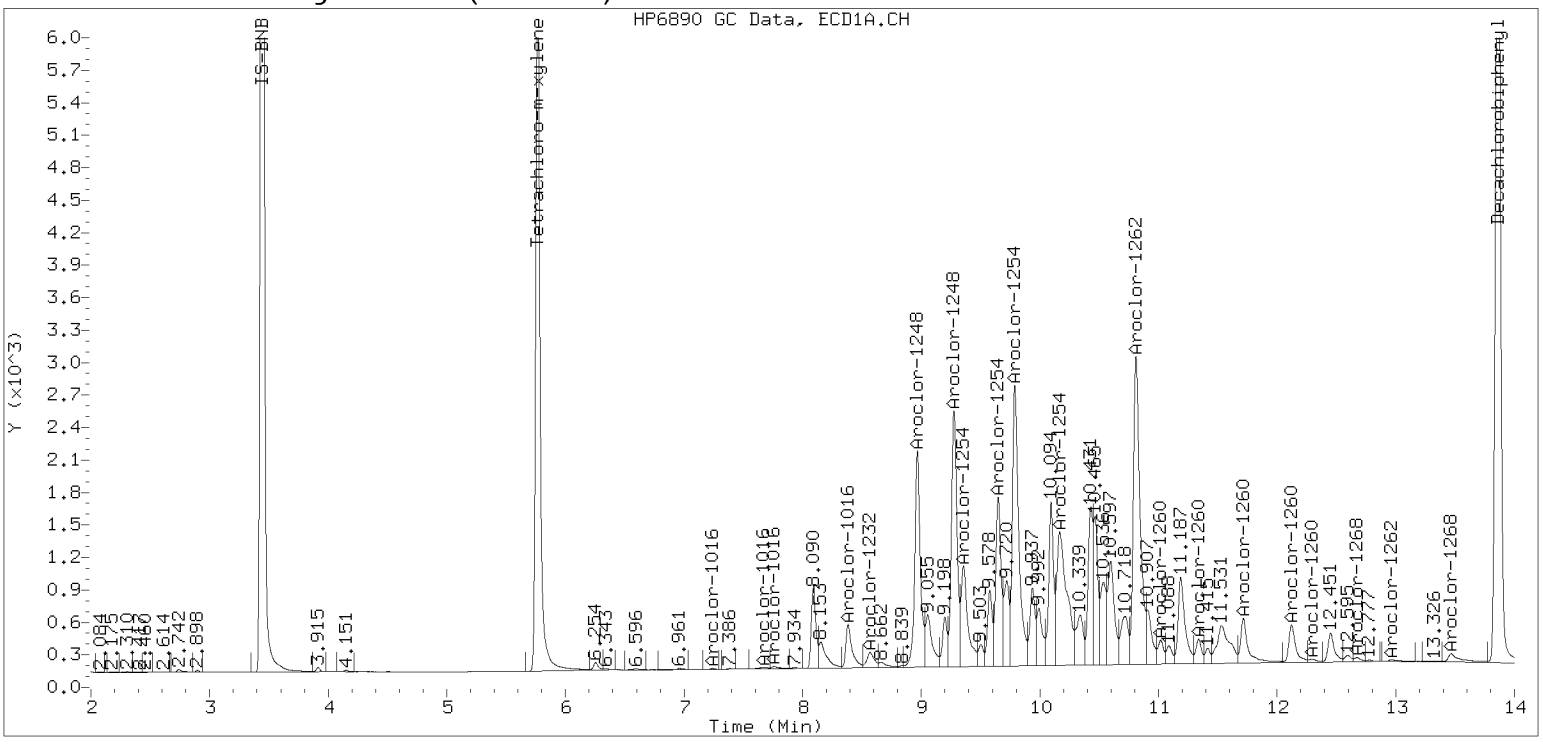
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282318ECD7.D Injection Date: 28-APR-2023 17:12

Manual Integration (After)



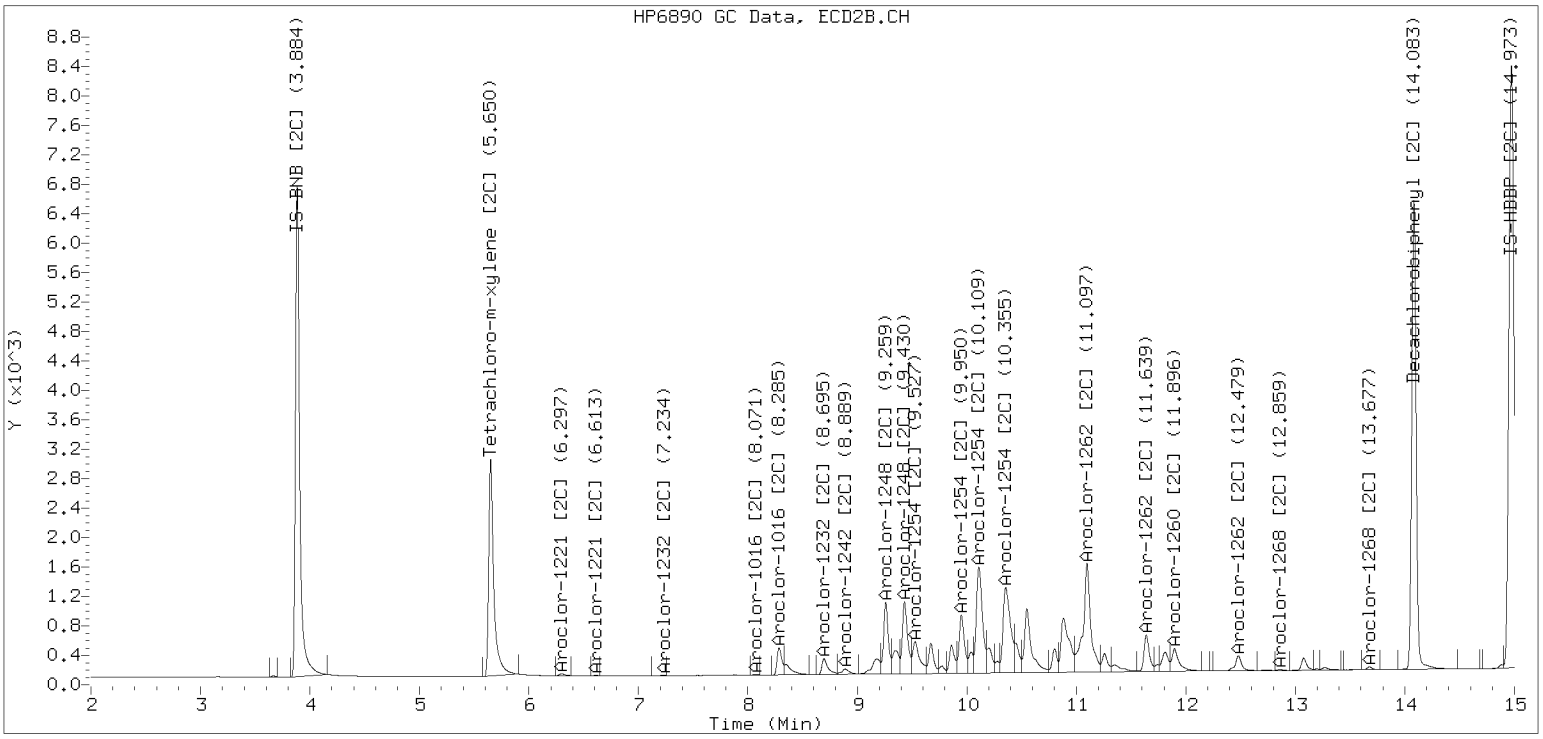
Processed Integration (Before)



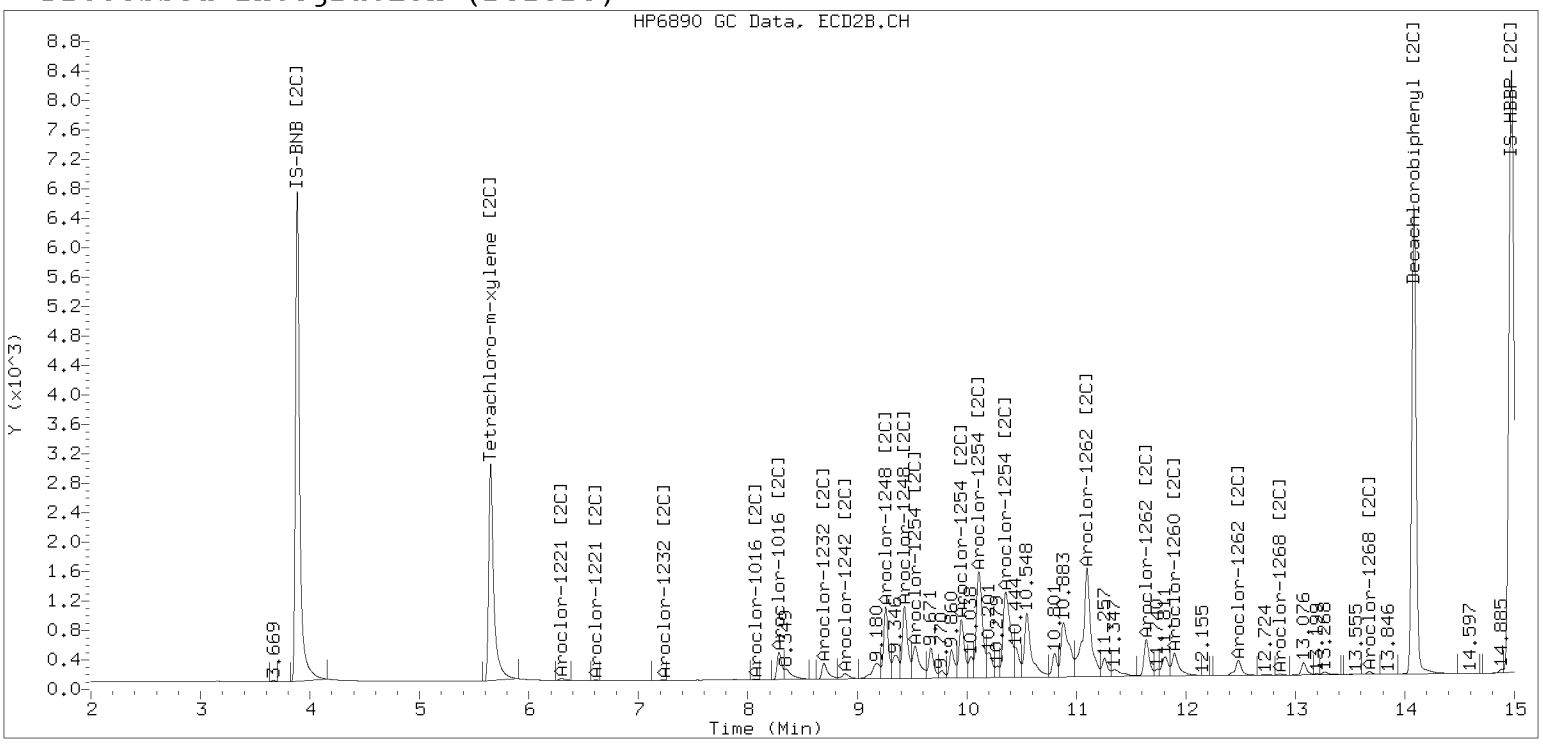
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282318ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00002
Laboratory ID: SLD0427-SCV5
Sequence: SLD0427
Sequence Name: AR2162SCV5
Standard ID: L002068

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	269	7.7	20.00
Aroclor 1221 [2C]	250.00	276	10.5	20.00
Aroclor 1262	250.00	254	1.7	20.00
Aroclor 1262 [2C]	250.00	255	2.0	20.00
Decachlorobiphenyl	40.000	35.9	-10.2	20.00
Tetrachlorometaxylene	40.000	38.3	-4.3	20.00
Decachlorobiphenyl [2C]	40.000	38.9	-2.6	20.00
Tetrachlorometaxylene [2C]	40.000	38.0	-5.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282319ECD7.D
Data file 2: /230428.b/230428.b/04282319ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 28-APR-2023 17:33
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	336477	5.650	-0.001	192040	38.3	38.0	0.7	Tetrachloro-m-xylene
13.862	0.001	499246	14.084	-0.000	363267	35.9	38.9	8.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	601660	8.2
Hexabromobiphenyl	745660	1282462	72.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	359781	3.2
Hexabromobiphenyl	429949	576077	34.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	5001	21.5	1	7.227	0.005	3885	19.9
Aroclor-1016	2	7.665	0.037	8647	14.0	2	7.887	0.043	4451	11.6
Aroclor-1016	3	7.777	0.014	6495	15.6	3	8.066	0.012	2267	9.6
Aroclor-1016	4	8.388	0.012	2933	13.5	4	8.290	0.009	1849	10.5
Total Col1Ave (4 peaks):		16.1			Total Col2Ave (4 peaks):		12.9	RPD = 22		
Corrected Ave (3 peaks):		14.3			Corrected Ave (3 peaks):		10.5	RPD = 31		
Aroclor-1221	1	4.683	0.001	12932	280.8	1	4.911	0.000	7988	299.1
Aroclor-1221	2	6.094	0.000	24389	264.0	2	6.265	-0.001	15133	265.2
Aroclor-1221	3	6.348	0.002	57578	262.7	3	6.593	-0.000	34566	264.7
Total Col1Ave (3 peaks):		269.2			Total Col2Ave (3 peaks):		276.3	RPD = 3		
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks					
Aroclor-1232	1	4.683	0.001	12932	441.6	1	4.911	-0.001	7988	515.9
Aroclor-1232	2	6.094	0.001	24389	376.5	2	7.227	0.002	3885	45.1
Aroclor-1232	3	7.665	0.013	8647	33.7	3	7.887	0.025	4451	26.2
Aroclor-1232	4	8.569	0.006	1975	16.5	4	8.699	0.005	1706	32.6
Total Col1Ave (4 peaks):		217.1			Total Col2Ave (4 peaks):		154.9	RPD = 33		
Corrected Ave (3 peaks):		142.2			Corrected Ave (3 peaks):		34.6	RPD = 122*		
Aroclor-1242	1	7.237	0.001	5001	26.6	1	7.227	0.005	3885	24.9
Aroclor-1242	2	7.665	0.026	8647	16.9	2	7.887	0.029	4451	14.2
Aroclor-1242	3	8.388	0.006	2933	17.0	3	8.699	-0.469	1706	15.8
Aroclor-1242	4	8.569	0.009	1975	7.7	4	8.906	-0.697	1208	10.9
Total Col1Ave (4 peaks):		17.1			Total Col2Ave (4 peaks):		16.4	RPD = 4		
Corrected Ave (3 peaks):		13.9			Corrected Ave (3 peaks):		13.6	RPD = 2		
Aroclor-1248	1	8.388	0.009	2933	10.1	1	8.699	0.414	1706	9.0
Aroclor-1248	2	8.569	0.010	1975	5.1	2	8.906	0.215	1208	7.3
Aroclor-1248	3	8.970	0.006	23869	20.7	3	9.261	0.098	12638	62.0
Aroclor-1248	4	9.284	0.013	28188	46.7	4	9.437	-0.157	13948	64.2
Total Col1Ave (4 peaks):		20.7			Total Col2Ave (4 peaks):		35.6	RPD = 53*		
Corrected Ave (3 peaks):		12.0			Corrected Ave (3 peaks):		26.1	RPD = 74*		
Aroclor-1254	1	9.284	0.009	28188	43.4	1	9.437	0.007	13948	51.9
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.654	0.006	4038	9.8	3	9.958	0.008	1791	8.2
Aroclor-1254	4	9.795	0.005	11586	13.9	4	10.124	0.014	55476	117.7
Aroclor-1254	5	10.096	-0.072	138022	314.6	5	10.346	-0.010	70184	129.5
Total Col1Ave (4 peaks):		95.4			Total Col2Ave (4 peaks):		76.8	RPD = 22		
Corrected Ave (3 peaks):		22.4			Corrected Ave (3 peaks):		59.3	RPD = 90*		
Aroclor-1260	1	11.019	0.002	240553	332.2	1	11.623	-0.001	124057	302.7
Aroclor-1260	2	11.335	0.002	202728	276.0	2	11.893	0.001	303878	282.5
Aroclor-1260	3	11.713	0.003	494200	259.3	3	12.405	-0.002	129175	527.4
Aroclor-1260	4	12.118	0.002	155139	164.1	4	12.475	0.000	226410	308.9
Aroclor-1260	5	12.217	0.001	214340	494.2	NS	---			----
Total Col1Ave (5 peaks):		305.2			Total Col2Ave (4 peaks):		355.4	RPD = 15		
Corrected Ave (4 peaks):		257.9			Corrected Ave (3 peaks):		298.1	RPD = 14		
Aroclor-1262	1	10.809	0.000	123367	246.5	1	11.173	-0.000	146790	254.9
Aroclor-1262	2	12.217	0.001	214340	245.2	2	11.623	-0.001	124057	255.8
Aroclor-1262	3	12.293	0.001	236304	246.0	3	12.405	0.001	129175	252.9
Aroclor-1262	4	12.963	0.001	216573	279.5	4	12.475	-0.000	226410	256.4
Total Col1Ave (4 peaks):		254.3			Total Col2Ave (4 peaks):		255.0	RPD = 0		
Corrected Ave (3 peaks):		245.9			Corrected Ave (3 peaks):		254.5	RPD = 3		
Aroclor-1268	1	12.217	-0.001	214340	97.4	1	12.405	0.001	129175	97.0
Aroclor-1268	2	12.293	0.002	236304	103.1	2	12.475	0.004	226410	149.9
Aroclor-1268	3	12.700	0.031	85797	45.0	3	12.859	0.001	9727	7.8
Aroclor-1268	4	13.461	0.001	83654	15.2	4	13.678	0.001	40997	10.8
Total Col1Ave (4 peaks):		65.2			Total Col2Ave (4 peaks):		66.4	RPD = 2		

Corrected Ave (3 peaks): 52.5 Corrected Ave (3 peaks): 38.5 RPD = 31

Total PCB Area Col1 (5.866 - 13.762) = 3513270 Col1 Total PCB = 0.5 ppm*

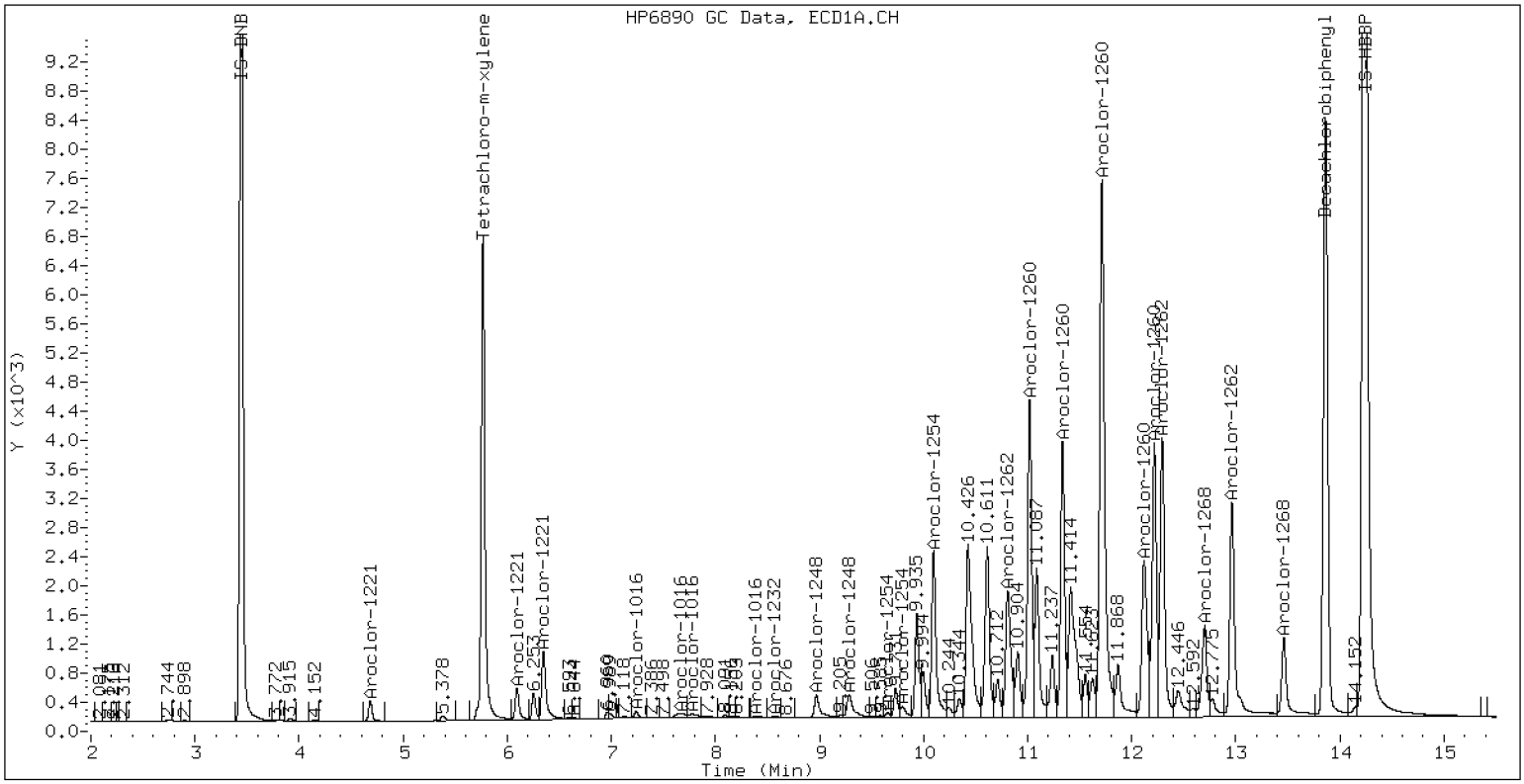
Total PCB Area Col2 (5.751 - 13.984) = 1957095 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

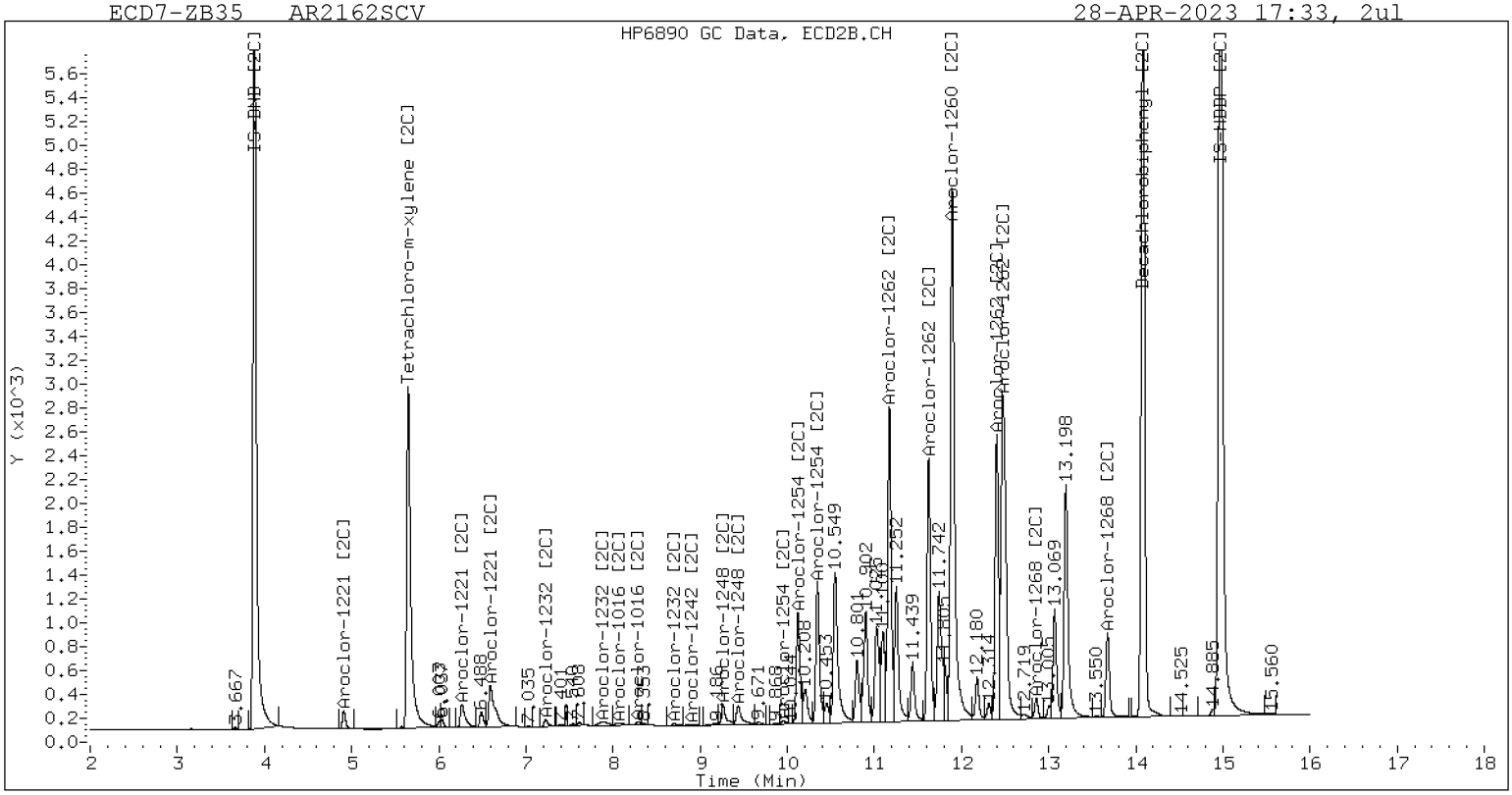
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 28-APR-2023 17:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 28-APR-2023 17:33, 2ul

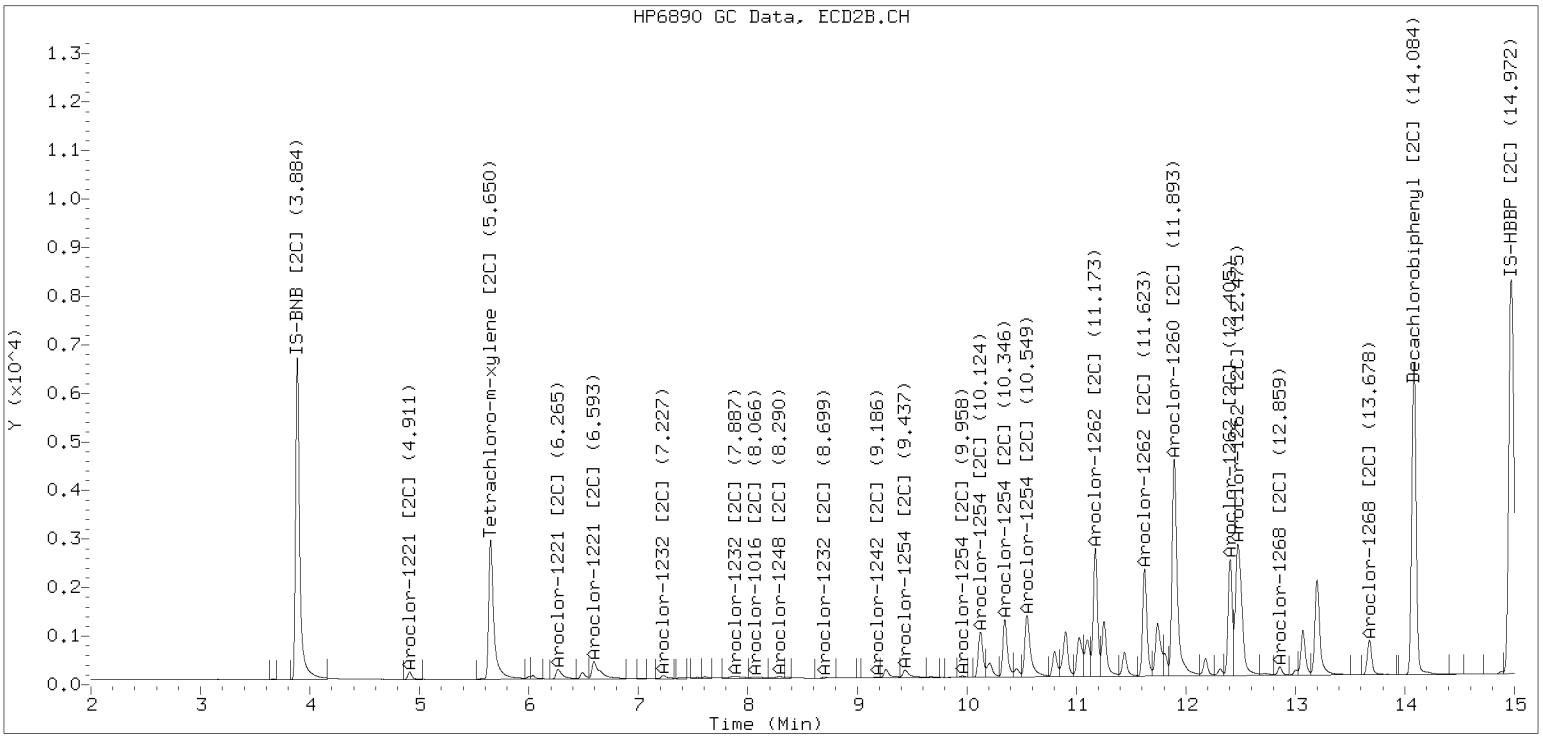


ZB-35 Manual Integration: NO

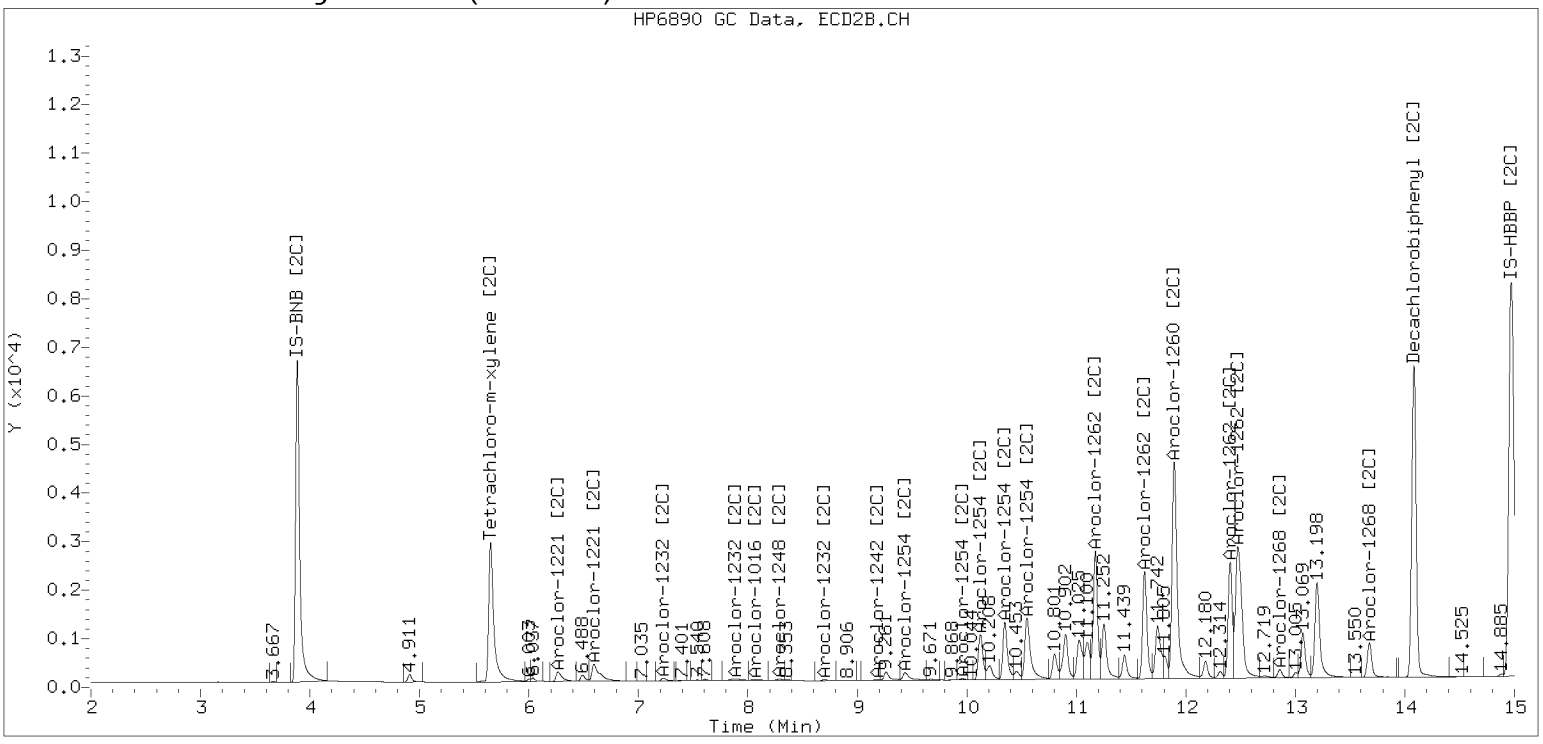
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282319ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00002
Laboratory ID: SLD0427-SCV6
Sequence: SLD0427
Sequence Name: AR3268SCV6
Standard ID: L002069

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	253	1.1	20.00
Aroclor 1232 [2C]	250.00	257	2.7	20.00
Aroclor 1268	250.00	242	-3.4	20.00
Aroclor 1268 [2C]	250.00	254	1.8	20.00
Decachlorobiphenyl	40.000	54.3	35.7	20.00
Tetrachlorometaxylene	40.000	39.7	-0.8	20.00
Decachlorobiphenyl [2C]	40.000	60.0	50.1	20.00
Tetrachlorometaxylene [2C]	40.000	38.1	-4.9	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282320ECD7.D
Data file 2: /230428.b/230428.b/04282320ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 28-APR-2023 17:54
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	344701	5.650	-0.000	190884	39.7	38.1	4.2	Tetrachloro-m-xylene
13.863	0.002	748678	14.083	-0.001	556825	54.3	60.0	10.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	594267	6.8
Hexabromobiphenyl	745660	1272651	70.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	357253	2.5
Hexabromobiphenyl	429949	572751	33.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.238	0.002	27428	119.4	1	7.224	0.003	22212	114.8
Aroclor-1016	2	7.645	0.018	67306	110.5	2	7.864	0.020	43795	114.5
Aroclor-1016	3	7.770	0.007	44634	108.2	3	8.063	0.009	25689	109.2
Aroclor-1016	4	8.384	0.008	23868	110.9	4	8.289	0.008	18313	104.5
Total Col1Ave (4 peaks):					112.2	Total Col2Ave (4 peaks):				110.7 RPD = 1
Corrected Ave (3 peaks):					109.9	Corrected Ave (3 peaks):				109.4 RPD = 0
Aroclor-1221	1	4.684	0.002	6934	152.4	1	4.912	0.002	3754	141.5
Aroclor-1221	2	6.095	0.001	14371	157.5	2	6.267	0.002	8987	158.6
Aroclor-1221	3	6.348	0.002	41876	193.5	3	6.596	0.002	24420	188.3
Total Col1Ave (3 peaks):					167.8	Total Col2Ave (3 peaks):				162.8 RPD = 3
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.684	0.002	6934	239.7	1	4.912	0.001	3754	244.1
Aroclor-1232	2	6.095	0.001	14371	224.6	2	7.224	-0.001	22212	259.7
Aroclor-1232	3	7.645	-0.006	67306	265.3	3	7.864	0.002	43795	259.5
Aroclor-1232	4	8.564	0.001	33203	281.0	4	8.693	-0.001	13696	263.5
Total Col1Ave (4 peaks):					252.6	Total Col2Ave (4 peaks):				256.7 RPD = 2
Corrected Ave (3 peaks):					243.2	Corrected Ave (3 peaks):				254.4 RPD = 5
Aroclor-1242	1	7.238	0.001	27428	147.9	1	7.224	0.002	22212	143.1
Aroclor-1242	2	7.645	0.007	67306	132.8	2	7.864	0.006	43795	141.0
Aroclor-1242	3	8.428	0.047	16206	95.1	3	8.693	-0.475	13696	127.5
Aroclor-1242	4	8.564	0.004	33203	131.6	4	8.897	-0.706	21265	192.9
Total Col1Ave (4 peaks):					126.9	Total Col2Ave (4 peaks):				151.1 RPD = 17
Corrected Ave (3 peaks):					119.8	Corrected Ave (3 peaks):				137.2 RPD = 14
Aroclor-1248	1	8.384	0.005	23868	83.1	1	8.693	0.408	13696	73.1
Aroclor-1248	2	8.564	0.005	33203	87.2	2	8.897	0.206	21265	128.9
Aroclor-1248	3	8.968	0.004	84096	74.0	3	9.261	0.097	25621	126.6
Aroclor-1248	4	9.276	0.005	56986	95.5	4	9.433	-0.160	6057	28.1
Total Col1Ave (4 peaks):					85.0	Total Col2Ave (4 peaks):				89.2 RPD = 5
Corrected Ave (3 peaks):					81.4	Corrected Ave (3 peaks):				75.9 RPD = 7
Aroclor-1254	1	9.276	0.000	56986	88.8	1	9.433	0.004	6057	22.7
Aroclor-1254	2	---			0.0	2	9.609	0.081	13368	82.1
Aroclor-1254	3	9.660	0.012	7875	19.4	3	9.958	0.008	2781	12.9
Aroclor-1254	4	9.800	0.010	12771	15.5	4	10.117	0.007	5502	11.8
Aroclor-1254	5	10.183	0.015	9957	23.0	5	10.379	0.024	5042	9.4
Total Col1Ave (4 peaks):					36.7	Total Col2Ave (5 peaks):				27.8 RPD = 28
Corrected Ave (3 peaks):					19.3	Corrected Ave (4 peaks):				14.2 RPD = 31
Aroclor-1260	1	11.023	0.005	98362	136.9	1	11.614	-0.010	74582	183.0
Aroclor-1260	2	11.337	0.004	8979	12.3	2	11.895	0.003	33641	31.5
Aroclor-1260	3	11.714	0.004	59413	31.4	3	12.402	-0.005	335038	1375.9
Aroclor-1260	4	---			0.0	4	12.470	-0.005	380342	522.0
Aroclor-1260	5	12.219	0.003	530793	1233.3	NS	---			----
Total Col1Ave (4 peaks):					353.5	Total Col2Ave (4 peaks):				528.1 RPD = 40
Corrected Ave (3 peaks):					60.2	Corrected Ave (3 peaks):				245.5 RPD = 121*
Aroclor-1262	1	10.815	0.006	5713	11.5	1	11.176	0.003	58379	102.0
Aroclor-1262	2	12.219	0.002	530793	612.0	2	11.614	-0.010	74582	154.7
Aroclor-1262	3	12.291	-0.001	548779	575.7	3	12.402	-0.002	335038	659.6
Aroclor-1262	4	12.960	-0.003	218981	284.8	4	12.470	-0.005	380342	433.3
Total Col1Ave (4 peaks):					371.0	Total Col2Ave (4 peaks):				337.4 RPD = 9
Corrected Ave (3 peaks):					290.7	Corrected Ave (3 peaks):				230.0 RPD = 23
Aroclor-1268	1	12.219	0.000	530793	243.0	1	12.402	-0.001	335038	253.1
Aroclor-1268	2	12.291	0.000	548779	241.2	2	12.470	-0.001	380342	253.2
Aroclor-1268	3	12.669	0.000	449251	237.4	3	12.859	0.001	314079	253.1
Aroclor-1268	4	13.461	-0.000	1338158	244.6	4	13.676	-0.001	976802	258.3
Total Col1Ave (4 peaks):					241.6	Total Col2Ave (4 peaks):				254.4 RPD = 5

Corrected Ave (3 peaks): 240.5 Corrected Ave (3 peaks): 253.1 RPD = 5

Total PCB Area Col1 (5.866 - 13.762) = 4336494 Col1 Total PCB = 0.6 ppm*

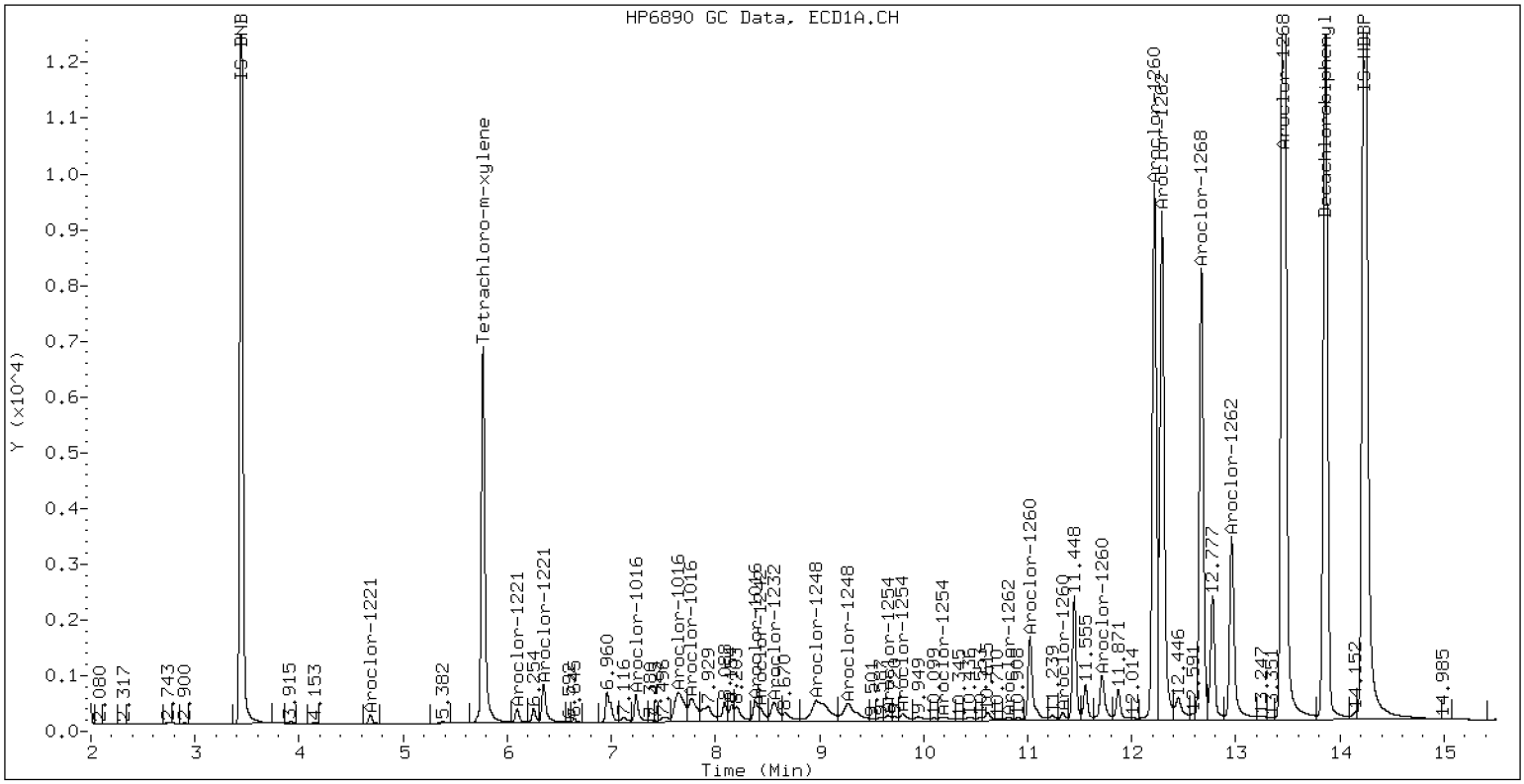
Total PCB Area Col2 (5.751 - 13.984) = 2807426 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

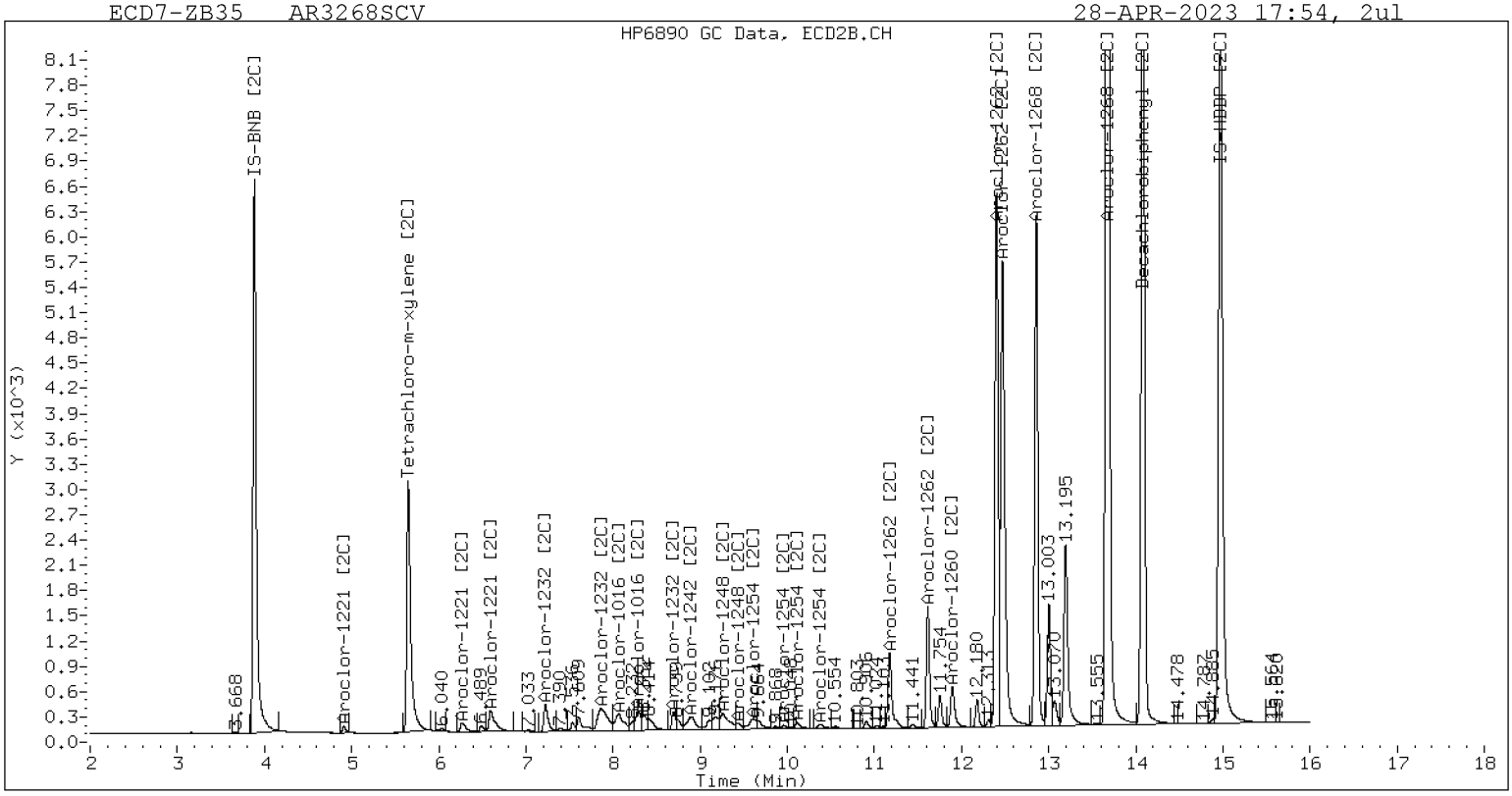
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 28-APR-2023 17:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 28-APR-2023 17:54, 2ul

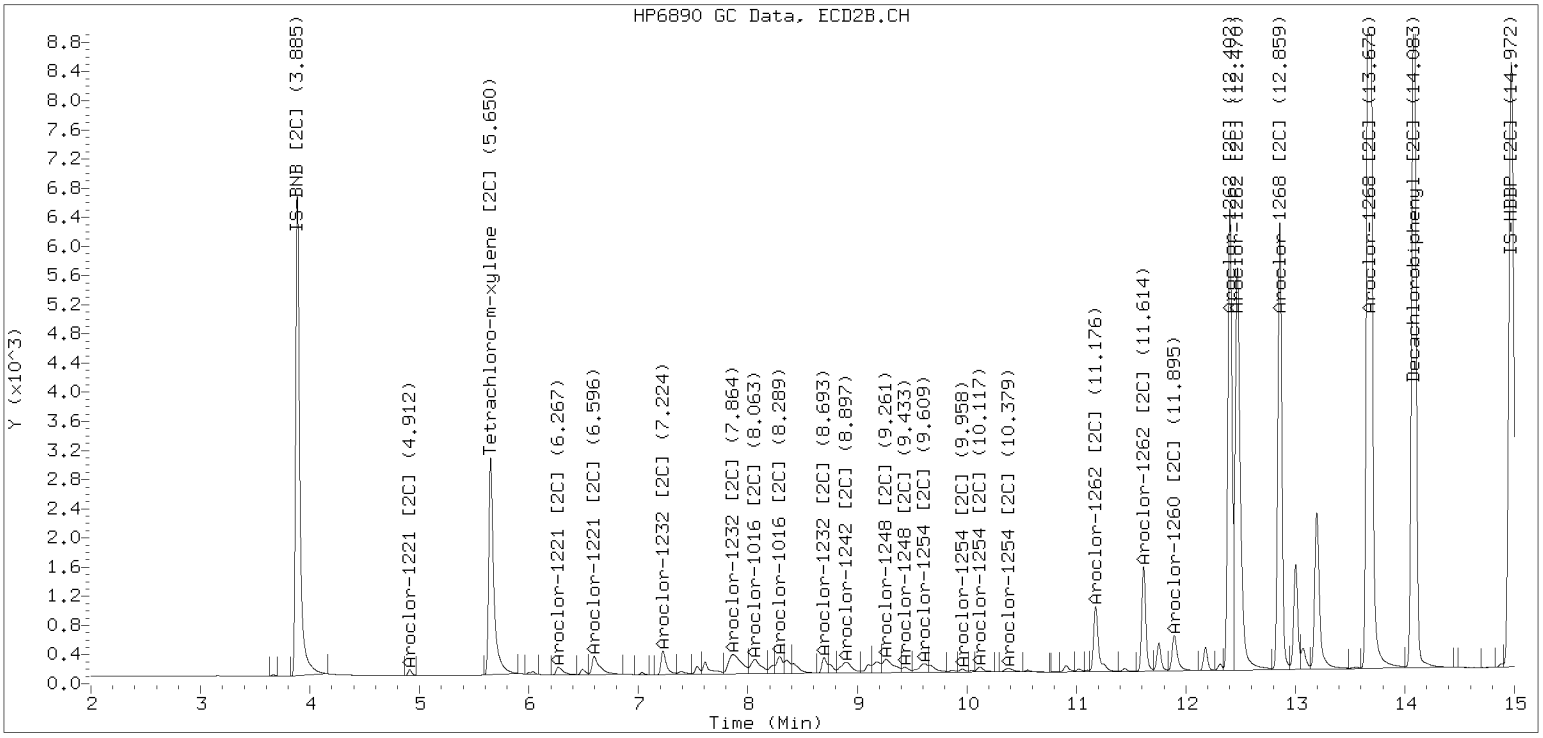


ZB-35 Manual Integration: YES

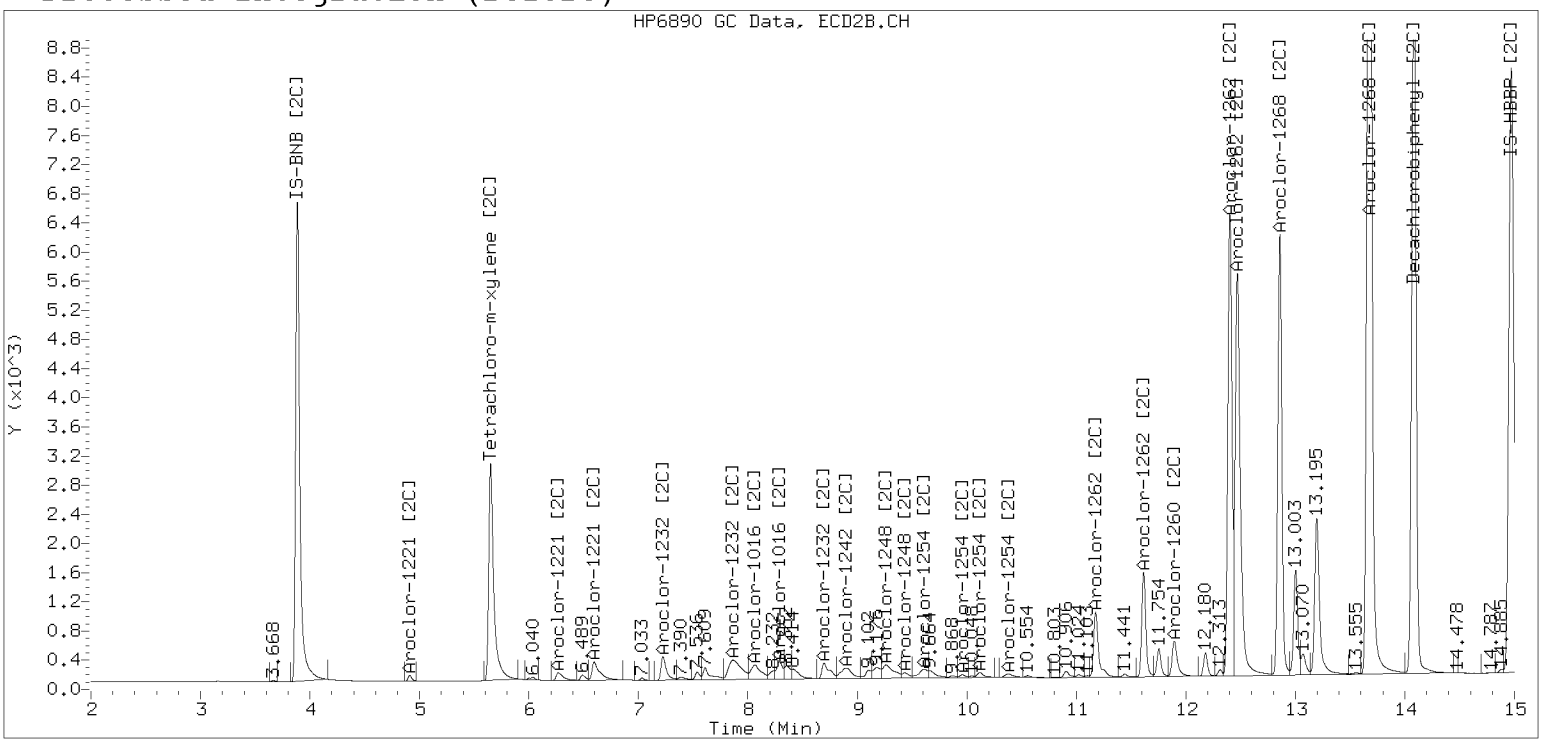
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282320ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022307ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/02/23
Lab Sample ID:	SLE0029-ICV1	Injection Time:	13:23
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	252	0.0702659	0.0758963		0.8	+/-20
Aroclor-1254 (1)	A	250.00	234	0.0864147	0.0808793			
Aroclor-1254 (2)	A	250.00	244	0.0409579	0.0399497			
Aroclor-1254 (3)	A	250.00	263	0.0546340	0.0575179			
Aroclor-1254 (4)	A	250.00	265	0.1109842	0.1177748			
Aroclor-1254 (5)	A	250.00	254	0.0583385	0.0833598			
Aroclor 1254 [2C]	A	250.00	270	0.0739953	0.0799936		7.9	+/-20
Aroclor-1254 (1) [2C]	A	250.00	274	0.0598131	0.0655693			
Aroclor-1254 (2) [2C]	A	250.00	269	0.0364538	0.0392646			
Aroclor-1254 (3) [2C]	A	250.00	265	0.0484172	0.0512634			
Aroclor-1254 (4) [2C]	A	250.00	267	0.1048212	0.1119048			
Aroclor-1254 (5) [2C]	A	250.00	274	0.1204710	0.1319659			
Decachlorobiphenyl	A	40.000	38.1	0.8671959	0.8258731		-4.8	+/-20
Tetrachlorometaxylene	A	40.000	38.9	1.1690340	1.1370750		-2.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.3	1.2954910	1.2394460		-4.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.1	1.1231530	1.1273020		0.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022307ECD7.D
Data file 2: /230502.b/230502.b/05022307ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 02-MAY-2023 13:23
Report Date: 05/02/2023 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	313923	5.650	0.001	172869	38.9	40.1	3.1	Tetrachloro-m-xylene
13.861	0.001	347885	14.082	0.002	271158	38.1	38.3	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	552159	-0.7
Hexabromobiphenyl	745660	842466	13.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	306695	-12.0
Hexabromobiphenyl	429949	437547	1.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.271	-0.004	139557	234.0	1	9.428	0.000	62843	274.1
Aroclor-1254	2	9.355	-0.004	68933	243.8	2	9.524	0.000	37632	269.3
Aroclor-1254	3	9.646	-0.002	99247	263.2	3	9.947	0.000	49132	264.7
Aroclor-1254	4	9.787	-0.003	203220	265.3	4	10.104	0.000	107252	266.9
Aroclor-1254	5	10.162	-0.007	143837	254.2	5	10.351	0.000	126479	273.9

Total Col1Ave (5 peaks): 252.1 Total Col2Ave (5 peaks): 269.8 RPD = 7

Corrected Ave (4 peaks): 248.8 Corrected Ave (4 peaks): 268.7 RPD = 8

CalAmt %D: 0.8 CalAmt %D: 7.9

Total PCB Area Col1 (5.866 - 13.760) = 2129267 Col1 Total PCB = 0.3 ppm*

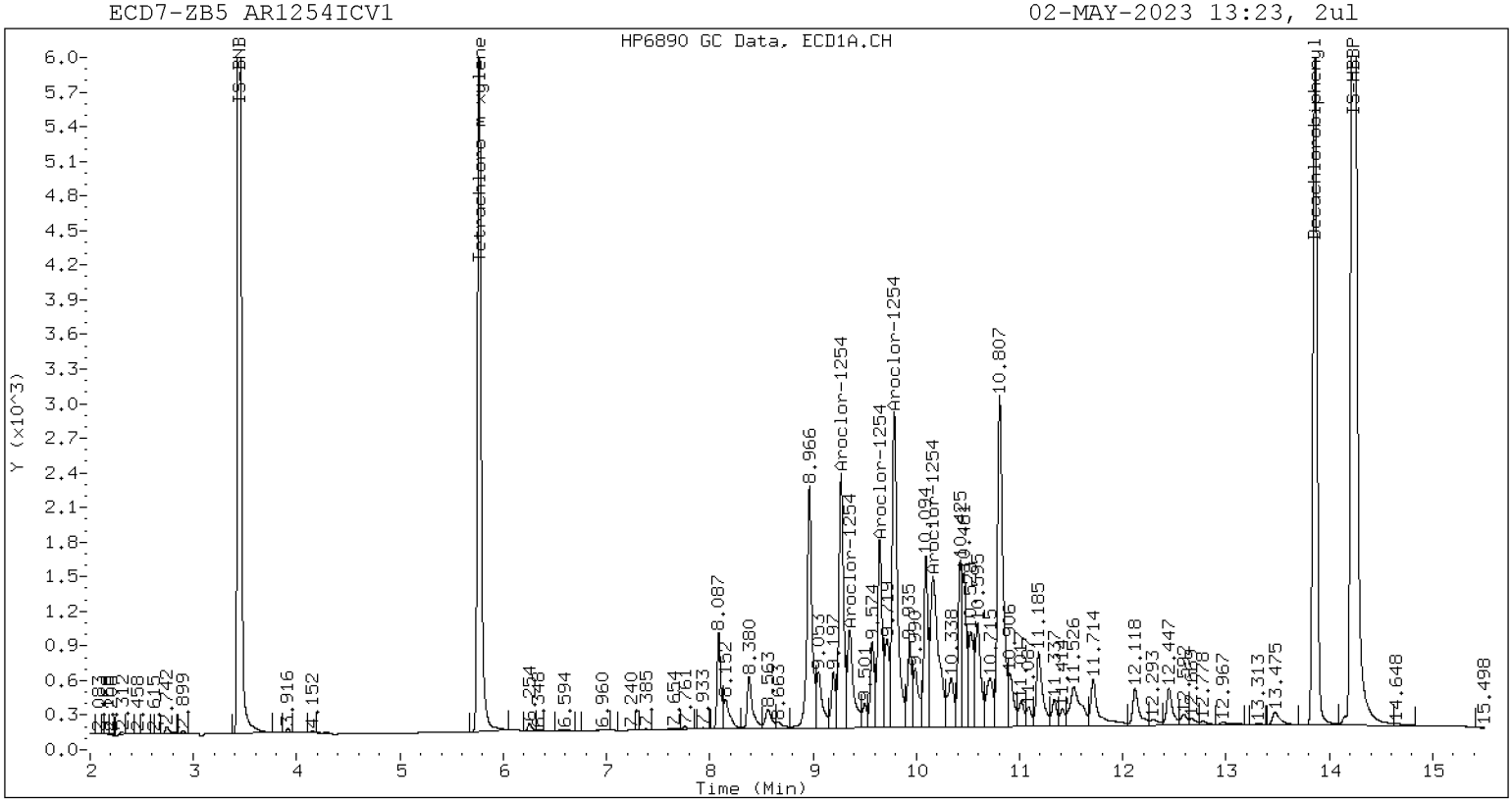
Total PCB Area Col2 (5.748 - 13.981) = 1069464 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

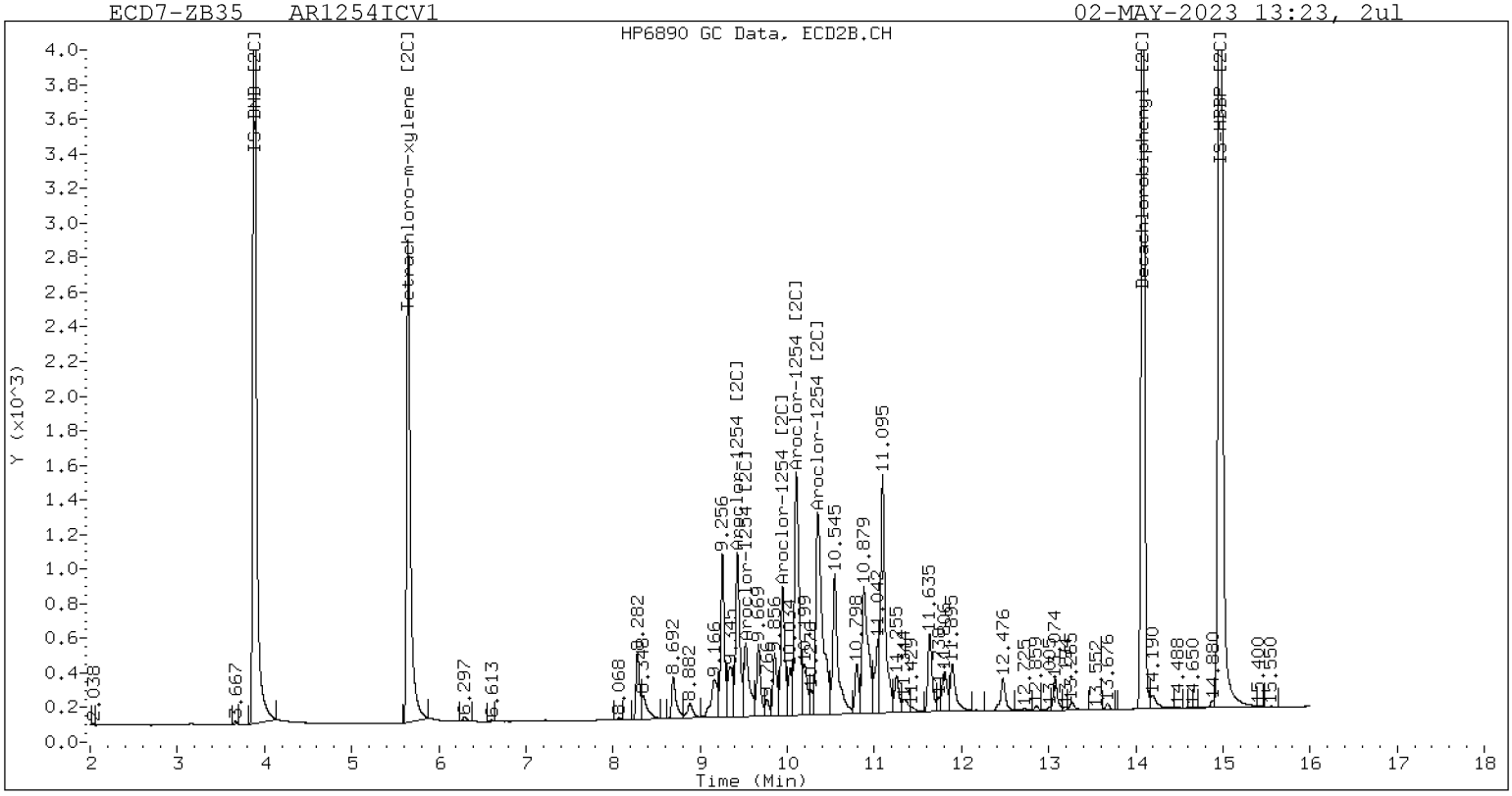
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 02-MAY-2023 13:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 02-MAY-2023 13:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022308ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/02/23
Lab Sample ID:	SLE0029-ICV2	Injection Time:	13:44
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	261	0.0493584	0.0522769		4.3	+/-20
Aroclor-1016 (1)	A	250.00	250	0.0309351	0.0297848		0.0	
Aroclor-1016 (2)	A	250.00	290	0.0820179	0.0950972		16.0	
Aroclor-1016 (3)	A	250.00	240	0.0555075	0.0538926		-4.0	
Aroclor-1016 (4)	A	250.00	263	0.0289731	0.0303329		5.2	
Aroclor 1016 [2C]	A	250.00	281	0.0554830	0.0638546		12.4	+/-20
Aroclor-1016 (1) [2C]	A	250.00	305	0.0433246	0.0528424		22.0	
Aroclor-1016 (2) [2C]	A	250.00	330	0.0856363	0.1129318		32.0	
Aroclor-1016 (3) [2C]	A	250.00	240	0.0537117	0.0505229		-4.0	
Aroclor-1016 (4) [2C]	A	250.00	249	0.0392594	0.0391213		-0.4	
Aroclor 1260	A	250.00	266	0.0591826	0.0636416		6.3	+/-20
Aroclor-1260 (1)	A	250.00	282	0.0451684	0.0509899		12.8	
Aroclor-1260 (2)	A	250.00	274	0.0458209	0.0502357		9.6	
Aroclor-1260 (3)	A	250.00	283	0.1189069	0.1346822		13.2	
Aroclor-1260 (4)	A	250.00	228	0.0589630	0.0539154		-8.8	
Aroclor-1260 (5)	A	250.00	262	0.0270539	0.0283849		4.8	
Aroclor 1260 [2C]	A	250.00	247	0.0855158	0.0841686		-1.2	+/-20
Aroclor-1260 (1) [2C]	A	250.00	243	0.0569154	0.0553722		-2.8	
Aroclor-1260 (2) [2C]	A	250.00	247	0.1493590	0.1474117		-1.2	
Aroclor-1260 (3) [2C]	A	250.00	254	0.0340126	0.0345712		1.6	
Aroclor-1260 (4) [2C]	A	250.00	244	0.1017762	0.0993192		-2.4	
Decachlorobiphenyl	A	40.000	39.8	0.8671959	0.8618546		-0.5	+/-20
Tetrachlorometaxylene	A	40.000	40.6	1.1690340	1.1875130		1.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.3	1.2954910	1.2737920		-1.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	46.1	1.1231530	1.2953060		15.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022308ECD7.D
Data file 2: /230502.b/230502.b/05022308ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 02-MAY-2023 13:44
Report Date: 05/02/2023 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.765	-0.001	334855	5.648	0.000	182280	40.6	46.1	12.7	Tetrachloro-m-xylene
13.860	0.000	374453	14.081	0.000	282543	39.8	39.3	1.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	563960	1.4
Hexabromobiphenyl	745660	868947	16.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	281447	-19.2
Hexabromobiphenyl	429949	443625	3.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.236	0.001	52492	250.2	1	7.220	0.000	46476	304.9
Aroclor-1016	2	7.629	0.002	167597	289.9	2	7.846	0.000	99326	329.7
Aroclor-1016	3	7.763	0.000	94979	240.1	3	8.055	0.000	44436	239.7
Aroclor-1016	4	8.377	0.001	53458	262.7	4	8.281	0.000	34408	249.1
Total Col1Ave (4 peaks):					260.7	Total Col2Ave (4 peaks):				280.9 RPD = 7
Corrected Ave (3 peaks):					251.0	Corrected Ave (3 peaks):				264.6 RPD = 5
CalAmt %D:					4.3	CalAmt %D:				12.3
Aroclor-1260	1	11.016	-0.001	138461	282.2	1	11.623	0.000	76764	243.2
Aroclor-1260	2	11.333	-0.000	136413	274.1	2	11.891	0.000	204361	246.7
Aroclor-1260	3	11.709	-0.001	365724	283.2	3	12.404	0.000	47927	254.1
Aroclor-1260	4	12.117	0.002	146405	228.6	4	12.473	0.000	137689	244.0
Aroclor-1260	5	12.215	-0.001	77078	262.3	NS	---			----
Total Col1Ave (5 peaks):					266.1	Total Col2Ave (4 peaks):				247.0 RPD = 7
Corrected Ave (4 peaks):					261.8	Corrected Ave (3 peaks):				244.6 RPD = 7
CalAmt %D:					6.4	CalAmt %D:				-1.2

Total PCB Area Col1 (5.866 - 13.760) = 3704161 Col1 Total PCB = 0.5 ppm*

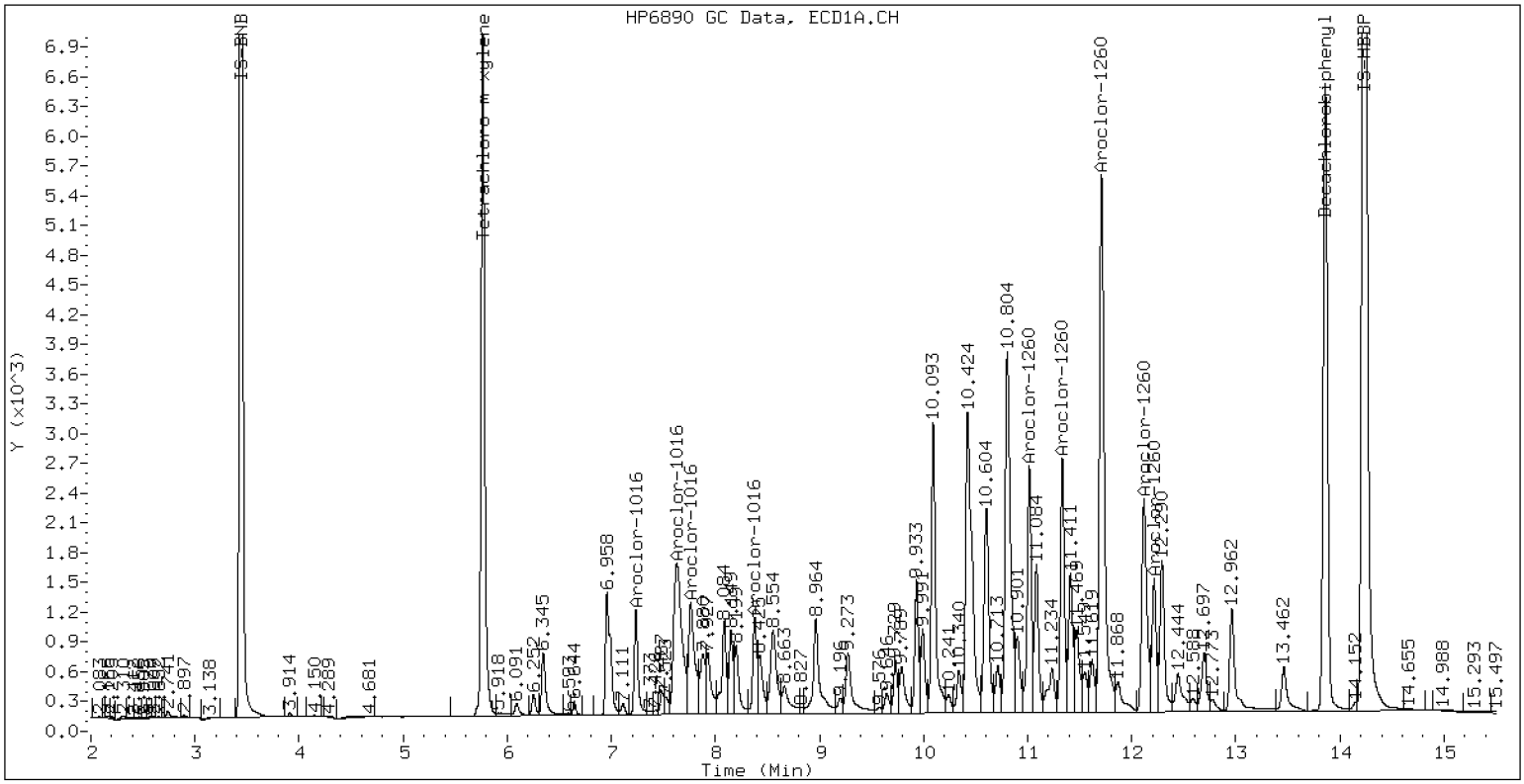
Total PCB Area Col2 (5.748 - 13.981) = 1898967 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

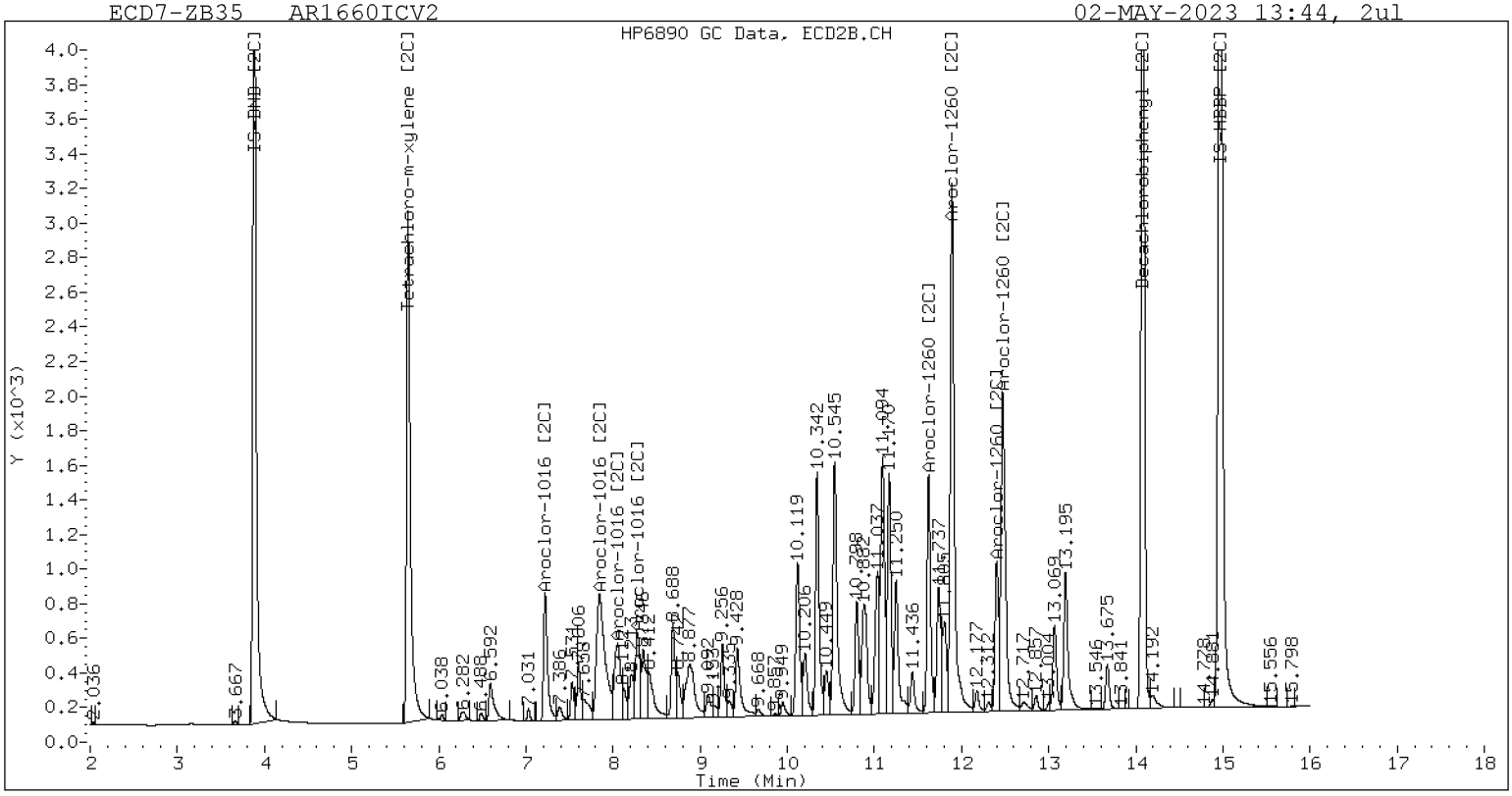
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 02-MAY-2023 13:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 02-MAY-2023 13:44, 2ul

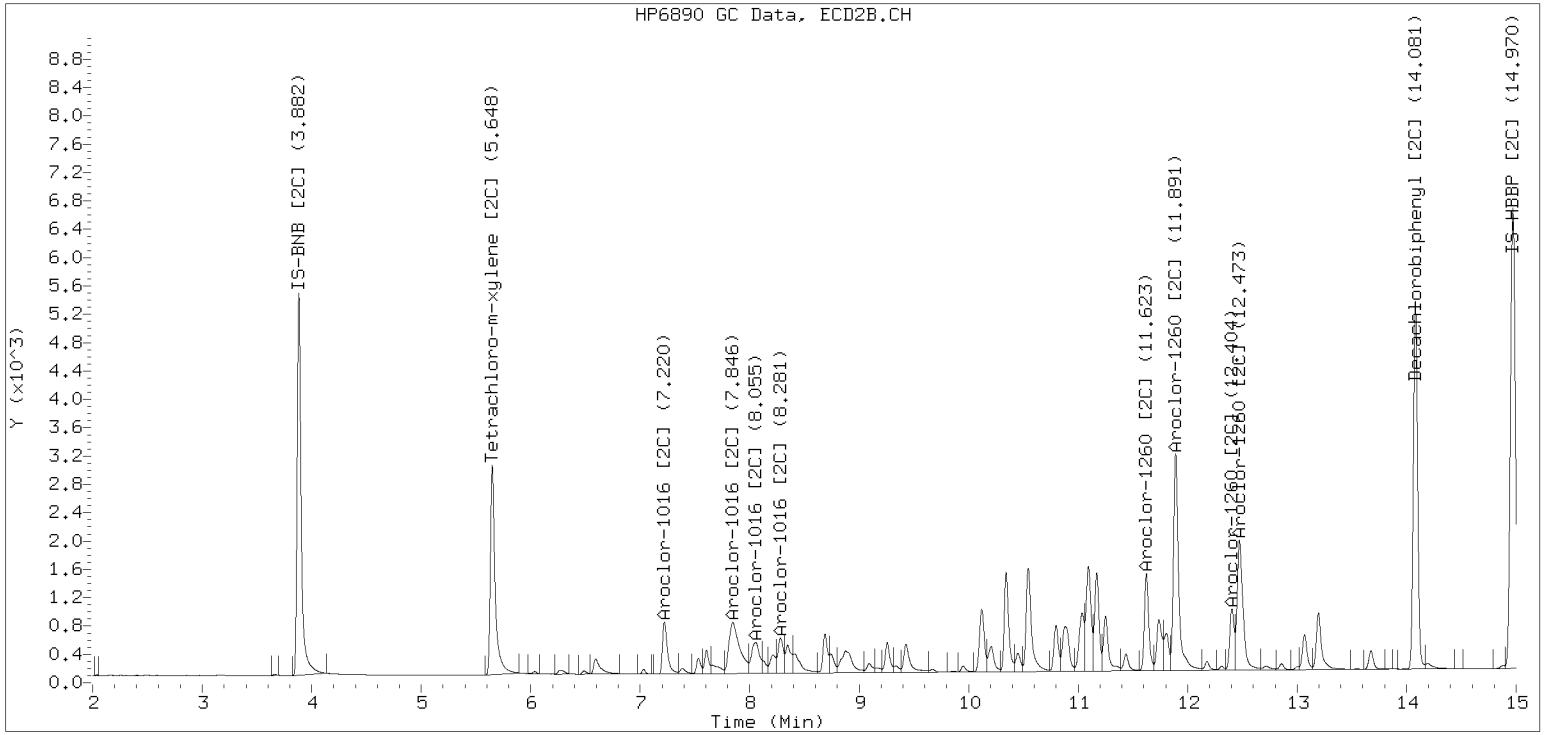


ZB-35 Manual Integration: YES

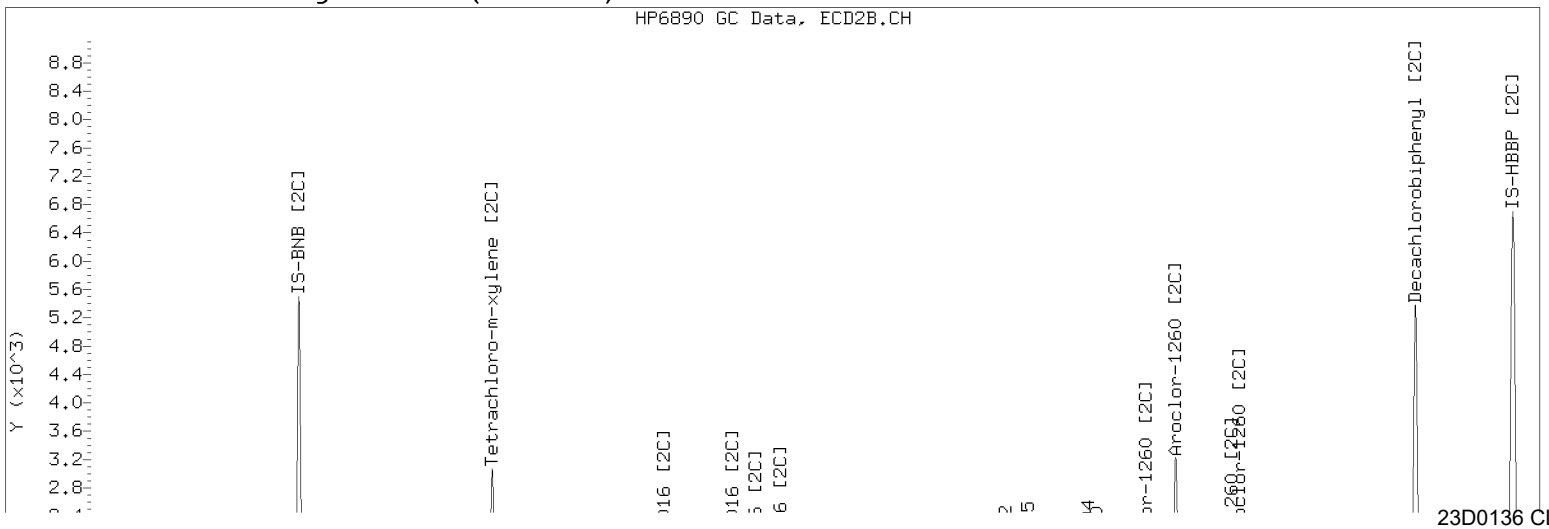
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230502.b/230502.b/05022308ECD7.D Injection Date: 02-MAY-2023 13:44

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	04282315ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLD0427	Injection Date:	04/28/23
Lab Sample ID:	SLD0427-SCV1	Injection Time:	16:09
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	253	0.0493584	0.0501472		1.1	+/-20
Aroclor 1016 [2C]	A	250.00	248	0.0554830	0.0554372		-0.8	+/-20
Aroclor 1260	A	250.00	244	0.0591826	0.0578461		-2.2	+/-20
Aroclor 1260 [2C]	A	250.00	259	0.0855158	0.0883349		3.7	+/-20
Decachlorobiphenyl	A	40.000	36.6	0.8671959	0.7934548		-8.5	+/-20
Tetrachlorometaxylene	A	40.000	37.6	1.1690340	1.0986080		-6.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.9	1.2954910	1.2603780		-2.7	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.1231530	1.0143810		-9.7	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282315ECD7.D
Data file 2: /230428.b/230428.b/04282315ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 28-APR-2023 16:09
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	-0.000	328442	5.650	-0.000	184023	37.6	36.1	4.0	Tetrachloro-m-xylene
13.862	0.000	457973	14.083	-0.001	349905	36.6	38.9	6.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	597924	7.5
Hexabromobiphenyl	745660	1154377	54.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	362828	4.1
Hexabromobiphenyl	429949	555238	29.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016 1	7.236	0.001	58167	251.6	1	7.223	0.002	49868	253.8
Aroclor-1016 2	7.636	0.008	162832	265.6	2	7.853	0.009	102116	262.9
Aroclor-1016 3	7.766	0.003	98114	236.5	3	8.060	0.005	57971	242.6
Aroclor-1016 4	8.378	0.002	55690	257.2	4	8.285	0.005	41472	232.9
Total Col1Ave (4 peaks):				252.7	Total Col2Ave (4 peaks):				248.1 RPD = 2
Corrected Ave (3 peaks):				248.4	Corrected Ave (3 peaks):				243.1 RPD = 2
Aroclor-1221 1	4.683	0.001	327	7.1	1	---			0.0
Aroclor-1221 2	6.092	-0.001	8500	92.6	2	6.279	0.013	4329	75.2
Aroclor-1221 3	6.347	0.001	39437	181.1	3	6.596	0.002	22951	174.3
Total Col1Ave (3 peaks):				93.6	Col2Ave: <3 Quant Peaks				
Aroclor-1232 1	4.683	0.001	327	11.2	1	---			0.0
Aroclor-1232 2	6.092	-0.001	8500	132.0	2	7.223	-0.002	49868	574.1
Aroclor-1232 3	7.636	-0.015	162832	637.9	3	7.853	-0.010	102116	595.7
Aroclor-1232 4	8.559	-0.004	77917	655.3	4	8.690	-0.003	33380	632.3
Total Col1Ave (4 peaks):				359.1	Total Col2Ave (3 peaks):				600.7 RPD = 50*
Corrected Ave (3 peaks):				260.4	Corrected Ave: < 3 Peaks				
Aroclor-1242 1	7.236	-0.000	58167	311.8	1	7.223	0.001	49868	316.3
Aroclor-1242 2	7.636	-0.002	162832	319.3	2	7.853	-0.006	102116	323.8
Aroclor-1242 3	8.423	0.042	38520	224.6	3	8.690	-0.477	33380	306.1
Aroclor-1242 4	8.559	-0.002	77917	307.0	4	8.889	-0.714	53314	476.2
Total Col1Ave (4 peaks):				290.7	Total Col2Ave (4 peaks):				355.6 RPD = 20
Corrected Ave (3 peaks):				281.1	Corrected Ave (3 peaks):				315.4 RPD = 11
Aroclor-1248 1	8.378	-0.001	55690	192.8	1	8.690	0.406	33380	175.4
Aroclor-1248 2	8.559	-0.000	77917	203.4	2	8.889	0.198	53314	318.2
Aroclor-1248 3	8.966	0.002	73557	64.3	3	9.258	0.095	27563	134.1
Aroclor-1248 4	9.279	0.008	51235	85.3	4	9.431	-0.163	27687	126.3
Total Col1Ave (4 peaks):				136.5	Total Col2Ave (4 peaks):				188.5 RPD = 32
Corrected Ave (3 peaks):				114.1	Corrected Ave (3 peaks):				145.3 RPD = 24
Aroclor-1254 1	9.279	0.004	51235	79.3	1	9.431	0.001	27687	102.1
Aroclor-1254 2	---			0.0	2	---			0.0
Aroclor-1254 3	9.649	0.001	5569	13.6	3	9.953	0.003	2877	13.1
Aroclor-1254 4	9.790	0.001	20622	24.9	4	10.122	0.013	59350	124.8
Aroclor-1254 5	10.094	-0.074	163613	375.2	5	10.345	-0.011	83726	153.2
Total Col1Ave (4 peaks):				123.3	Total Col2Ave (4 peaks):				98.3 RPD = 23
Corrected Ave (3 peaks):				39.3	Corrected Ave (3 peaks):				80.0 RPD = 68*
Aroclor-1260 1	11.018	0.001	162373	249.1	1	11.624	0.000	96769	245.0
Aroclor-1260 2	11.335	0.002	163247	246.9	2	11.893	0.001	269412	259.9
Aroclor-1260 3	11.711	0.001	430555	250.9	3	12.406	-0.001	64881	274.8
Aroclor-1260 4	12.118	0.002	188077	221.1	4	12.476	0.001	182024	257.7
Aroclor-1260 5	12.216	0.000	99127	253.9	NS	---			----
Total Col1Ave (5 peaks):				244.4	Total Col2Ave (4 peaks):				259.3 RPD = 6
Corrected Ave (4 peaks):				242.0	Corrected Ave (3 peaks):				254.2 RPD = 5
Aroclor-1262 1	10.808	-0.000	229421	509.3	1	11.172	-0.001	104566	188.4
Aroclor-1262 2	12.216	-0.000	99127	126.0	2	11.624	0.000	96769	207.0
Aroclor-1262 3	12.292	0.000	123787	143.2	3	12.406	0.002	64881	131.8
Aroclor-1262 4	12.963	0.001	107216	153.7	4	12.476	0.001	182024	213.9
Total Col1Ave (4 peaks):				233.0	Total Col2Ave (4 peaks):				185.3 RPD = 23
Corrected Ave (3 peaks):				141.0	Corrected Ave (3 peaks):				175.7 RPD = 22
Aroclor-1268 1	12.216	-0.002	99127	50.0	1	12.406	0.002	64881	50.6
Aroclor-1268 2	12.292	0.002	123787	60.0	2	12.476	0.005	182024	125.0
Aroclor-1268 3	12.700	0.030	49518	28.9	3	12.859	0.000	4065	3.4
Aroclor-1268 4	13.461	0.000	25958	5.2	4	13.677	-0.000	14756	4.0
Total Col1Ave (4 peaks):				36.0	Total Col2Ave (4 peaks):				45.7 RPD = 24
Corrected Ave (3 peaks):				28.0	Corrected Ave (3 peaks):				19.3 RPD = 37

Total PCB Area Col1 (5.866 - 13.762) = 3921238 Col1 Total PCB = 0.5 ppm*

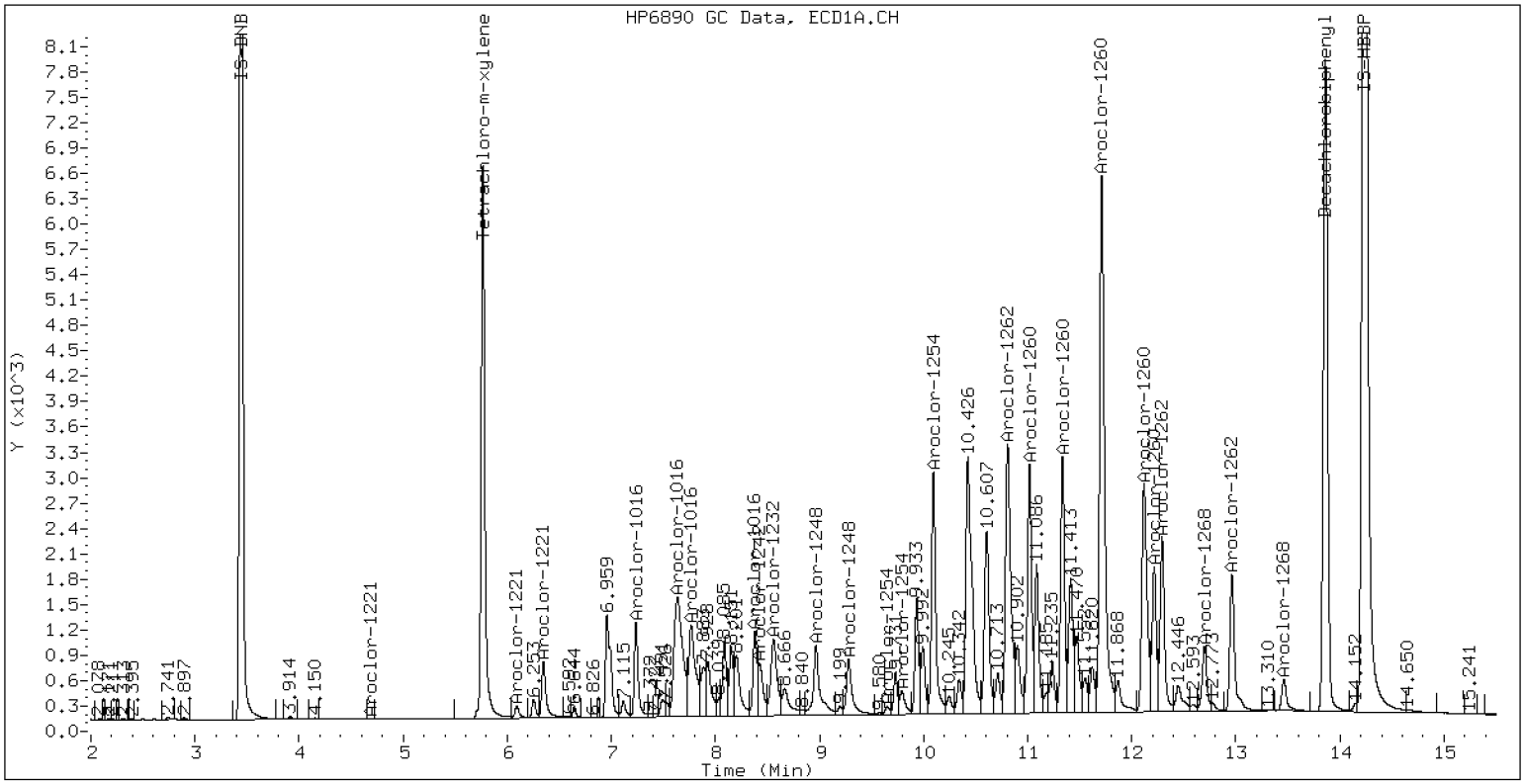
Total PCB Area Col2 (5.751 - 13.984) = 2234032 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

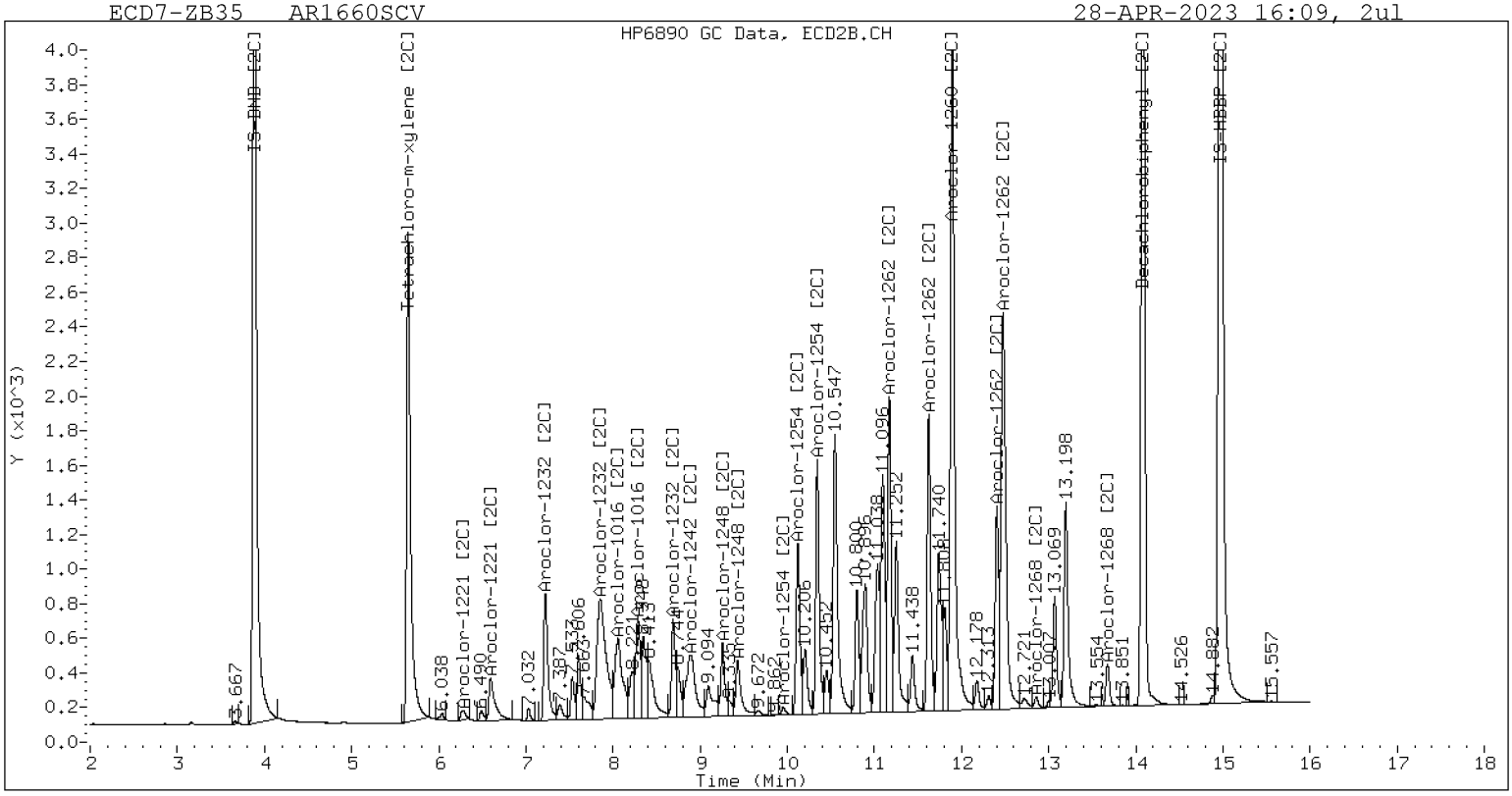
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 28-APR-2023 16:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 28-APR-2023 16:09, 2ul

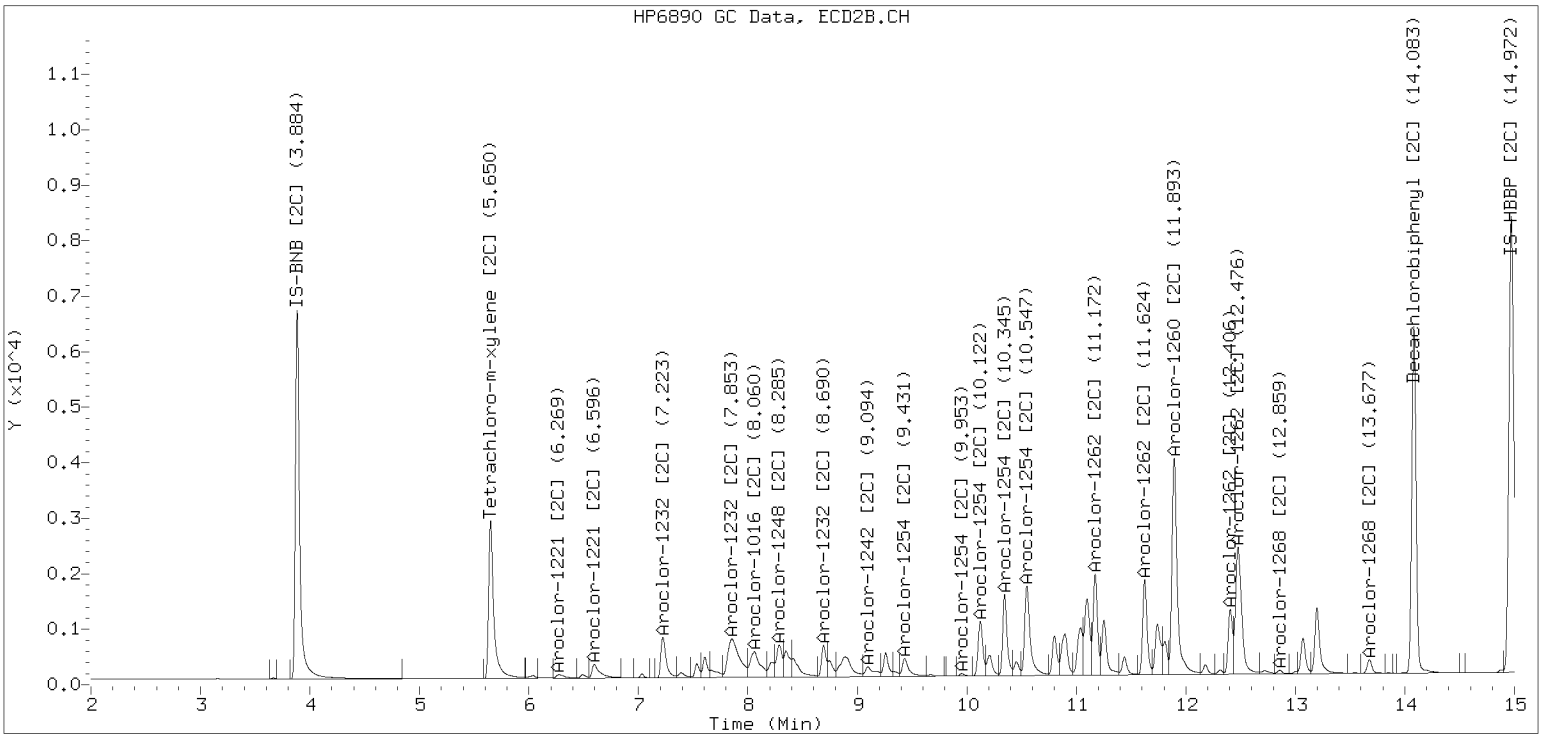


ZB-35 Manual Integration: NO

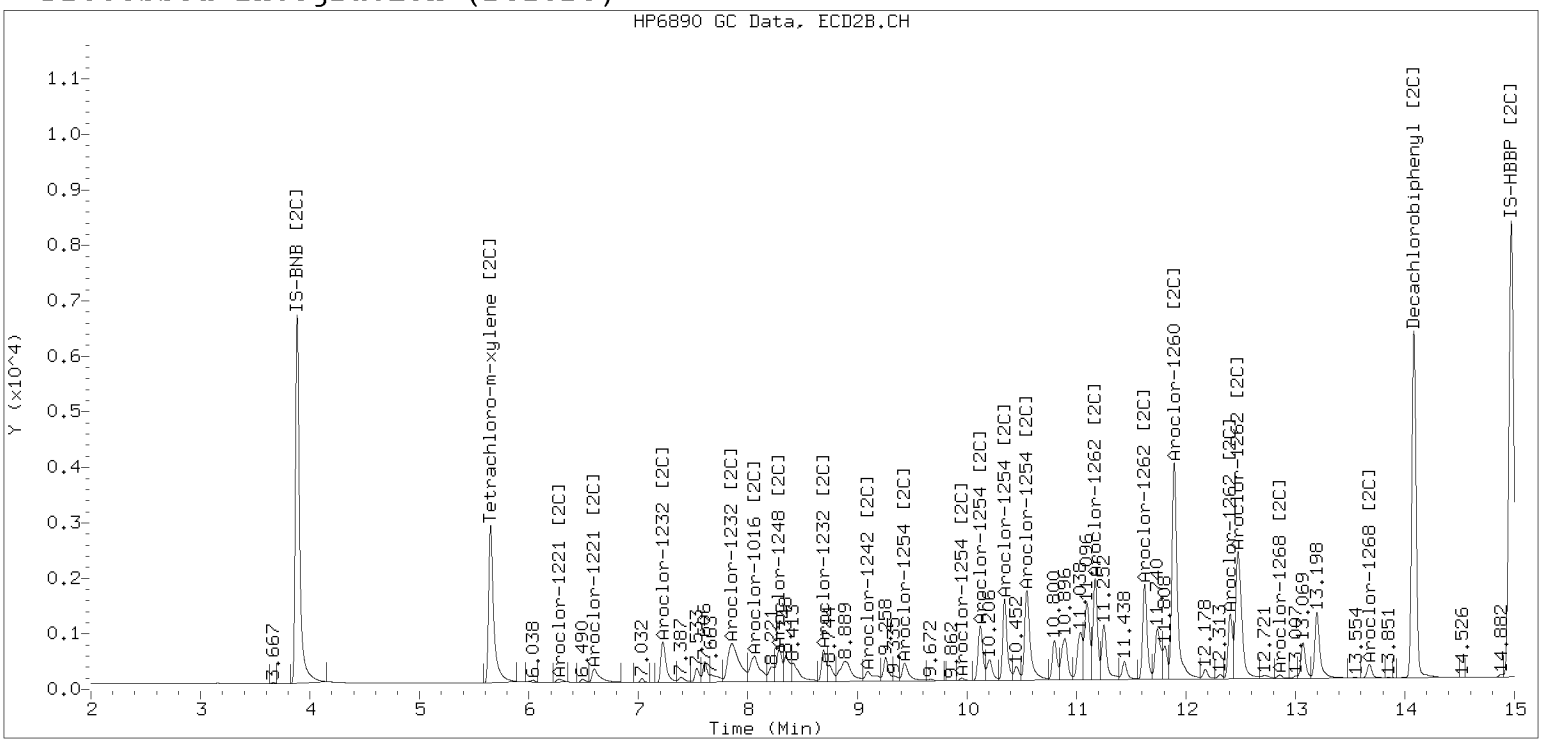
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282315ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	04282316ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLD0427	Injection Date:	04/28/23
Lab Sample ID:	SLD0427-SCV2	Injection Time:	16:30
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	238	0.0375243	0.0354152		-4.9	+/-20
Aroclor 1242 [2C]	A	250.00	249	0.0382553	0.0375619		-0.3	+/-20
Decachlorobiphenyl	A	40.000	40.7	0.8671959	0.8817611		1.7	+/-20
Tetrachlorometaxylene	A	40.000	33.9	1.1690340	0.9894074		-15.4	+/-20
Decachlorobiphenyl [2C]	A	40.000	43.6	1.2954910	1.4104730		8.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	32.6	1.1231530	0.9160036		-18.4	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282316ECD7.D
Data file 2: /230428.b/230428.b/04282316ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 28-APR-2023 16:30
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	292500	5.650	-0.001	164326	33.9	32.6	3.7	Tetrachloro-m-xylene
13.864	0.002	517644	14.083	-0.001	393716	40.7	43.6	6.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	591263	6.3
Hexabromobiphenyl	745660	1174114	57.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	358789	3.0
Hexabromobiphenyl	429949	558275	29.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.001	42869	187.5	1	7.224	0.002	36830	189.5
Aroclor-1016	2	7.642	0.014	116563	192.3	2	7.859	0.015	74679	194.4
Aroclor-1016	3	7.767	0.004	72620	177.0	3	8.061	0.007	42627	180.4
Aroclor-1016	4	8.381	0.005	41808	195.2	4	8.287	0.006	31937	181.4
Total Col1Ave (4 peaks):					188.0	Total Col2Ave (4 peaks):				186.4 RPD = 1
Corrected Ave (3 peaks):					185.6	Corrected Ave (3 peaks):				183.8 RPD = 1
Aroclor-1221	1	4.687	0.005	261	5.8	1	---			0.0
Aroclor-1221	2	6.092	-0.002	5439	59.9	2	6.288	0.022	3034	53.3
Aroclor-1221	3	6.348	0.002	27795	129.1	3	6.597	0.003	16171	124.2
Total Col1Ave (3 peaks):					64.9	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.687	0.004	261	9.1	1	---			0.0
Aroclor-1232	2	6.092	-0.002	5439	85.4	2	7.224	-0.001	36830	428.8
Aroclor-1232	3	7.642	-0.009	116563	461.7	3	7.859	-0.003	74679	440.5
Aroclor-1232	4	8.560	-0.004	60506	514.6	4	8.693	-0.001	25516	488.8
Total Col1Ave (4 peaks):					267.7	Total Col2Ave (3 peaks):				452.7 RPD = 51*
Corrected Ave (3 peaks):					185.4	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.237	0.000	42869	232.4	1	7.224	0.002	36830	236.3
Aroclor-1242	2	7.642	0.003	116563	231.1	2	7.859	0.001	74679	239.5
Aroclor-1242	3	8.381	-0.000	41808	246.5	3	9.173	0.005	27704	256.9
Aroclor-1242	4	8.560	-0.001	60506	241.1	4	9.602	-0.001	29247	264.2
Total Col1Ave (4 peaks):					237.8	Total Col2Ave (4 peaks):				249.2 RPD = 5
Corrected Ave (3 peaks):					234.9	Corrected Ave (3 peaks):				244.2 RPD = 4
Aroclor-1248	1	8.381	0.002	41808	146.4	1	8.693	0.408	25516	135.6
Aroclor-1248	2	8.560	0.000	60506	159.7	2	8.890	0.199	41427	250.0
Aroclor-1248	3	8.967	0.003	153088	135.4	3	9.258	0.094	51085	251.4
Aroclor-1248	4	9.276	0.004	79463	133.8	4	9.433	-0.160	16032	74.0
Total Col1Ave (4 peaks):					143.8	Total Col2Ave (4 peaks):				177.7 RPD = 21
Corrected Ave (3 peaks):					138.5	Corrected Ave (3 peaks):				153.2 RPD = 10
Aroclor-1254	1	9.276	-0.000	79463	124.4	1	9.433	0.004	16032	59.8
Aroclor-1254	2	9.354	-0.004	29048	96.0	2	9.602	0.074	29247	178.9
Aroclor-1254	3	9.654	0.006	18218	45.1	3	9.955	0.005	10890	50.2
Aroclor-1254	4	9.799	0.009	31107	37.9	4	10.114	0.004	21158	45.0
Aroclor-1254	5	10.188	0.019	22524	52.2	5	10.380	0.024	20273	37.5
Total Col1Ave (5 peaks):					71.1	Total Col2Ave (5 peaks):				74.3 RPD = 4
Corrected Ave (4 peaks):					57.8	Corrected Ave (4 peaks):				48.1 RPD = 18
Aroclor-1260	1	11.022	0.005	1107	1.7	1	11.645	0.021	2082	5.2
Aroclor-1260	2	11.341	0.007	839	1.2	2	11.903	0.011	1433	1.4
Aroclor-1260	3	11.721	0.011	1240	0.7	3	12.477	0.071	1326	5.6
Aroclor-1260	4	12.127	0.011	1362	1.6	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks):					1.3	Total Col2Ave (3 peaks):				4.1 RPD = 103*
Corrected Ave (3 peaks):					1.2	Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.818	0.009	16810	36.7	1	11.105	-0.068	10045	18.0
Aroclor-1262	2	12.127	-0.090	1362	1.7	2	11.645	0.021	2082	4.4
Aroclor-1262	3	12.308	0.016	110	0.1	3	12.477	0.074	1326	2.7
Aroclor-1262	4	13.018	0.056	1070	1.5	4	---			0.0
Total Col1Ave (4 peaks):					10.0	Total Col2Ave (3 peaks):				8.4 RPD = 18
Corrected Ave (3 peaks):					1.1	Corrected Ave: < 3 Peaks				
Aroclor-1268	1	12.308	0.090	110	0.1	1	12.477	0.074	1326	1.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.671	0.001	2482	1.4	3	12.861	0.003	1233	1.0
Aroclor-1268	4	13.468	0.007	10976	2.2	4	13.676	-0.000	2739	0.7
Total Col1Ave (3 peaks):					1.2	Total Col2Ave (3 peaks):				0.9 RPD = 27
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 1193104 Col1 Total PCB = 0.2 ppm*

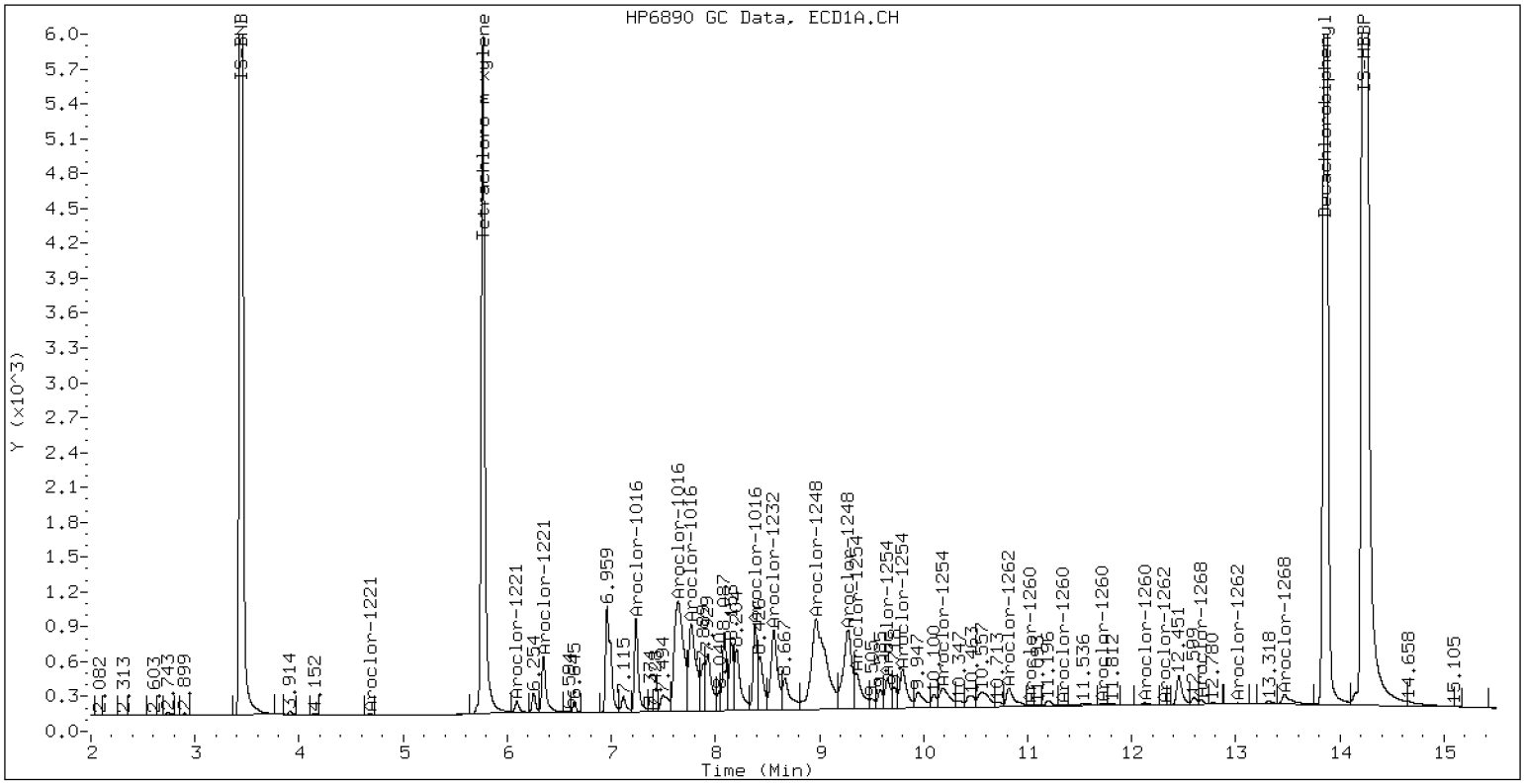
Total PCB Area Col2 (5.751 - 13.984) = 682890 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

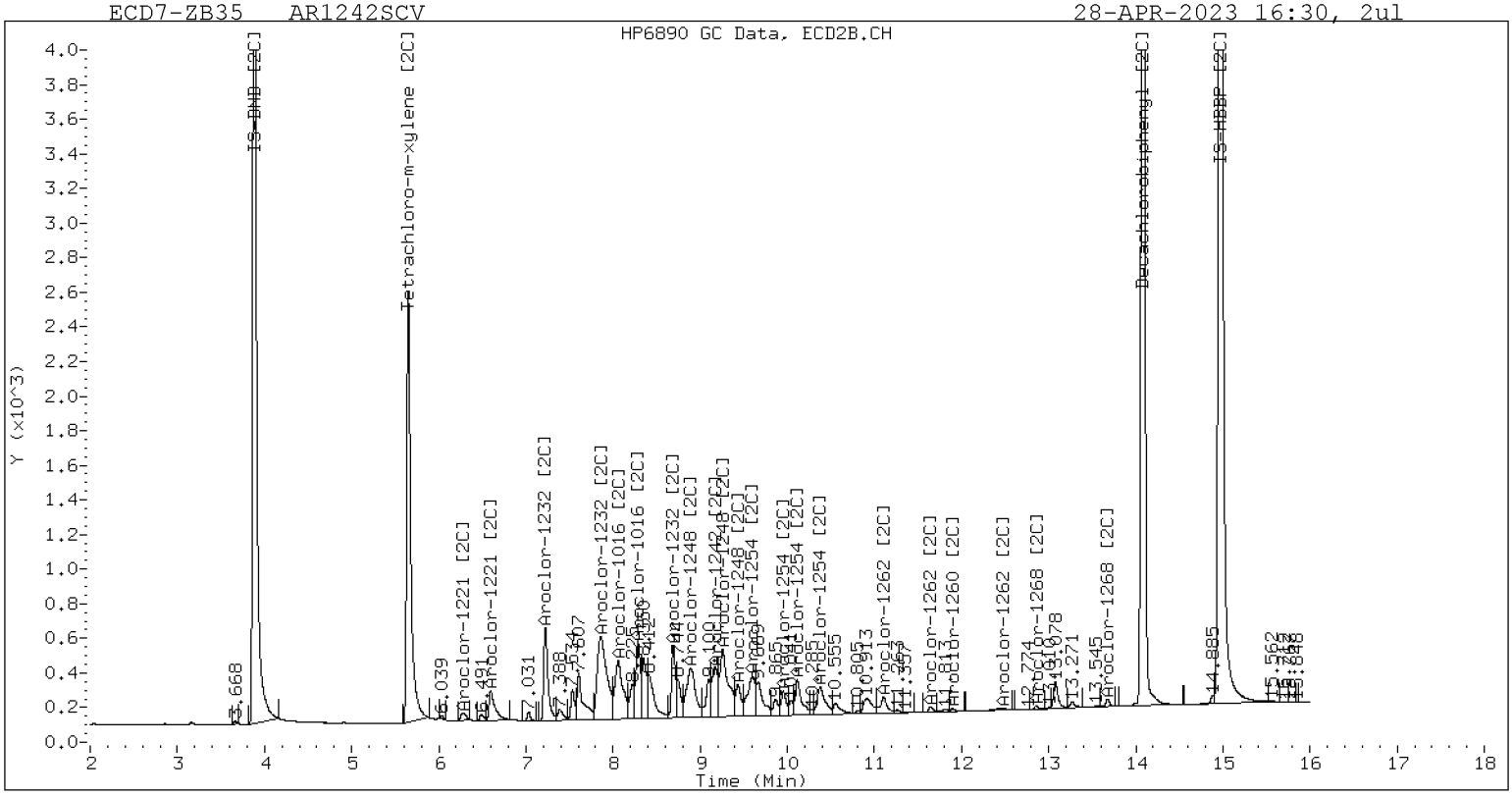
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 28-APR-2023 16:30, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242SCV 28-APR-2023 16:30, 2ul

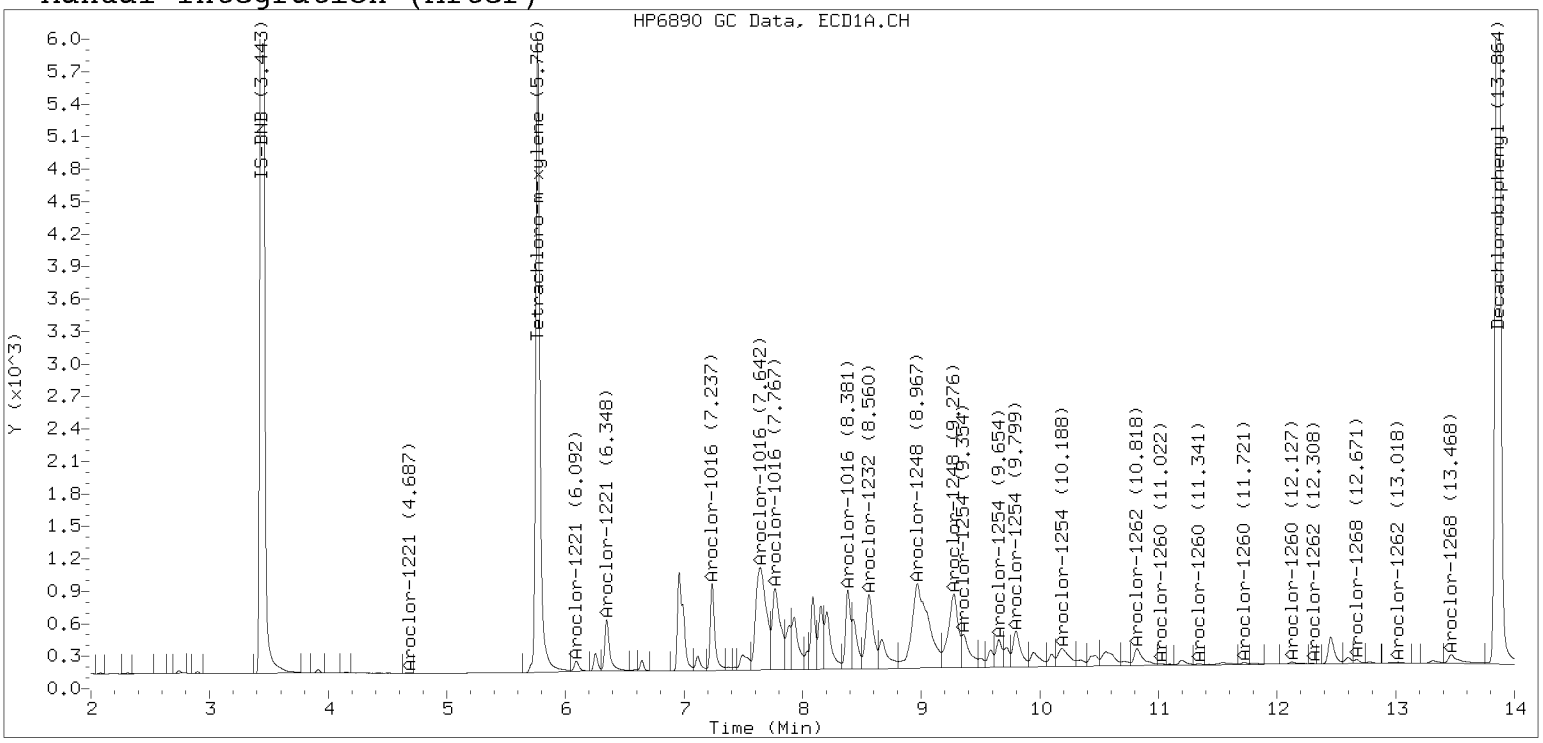


ZB-35 Manual Integration: YES

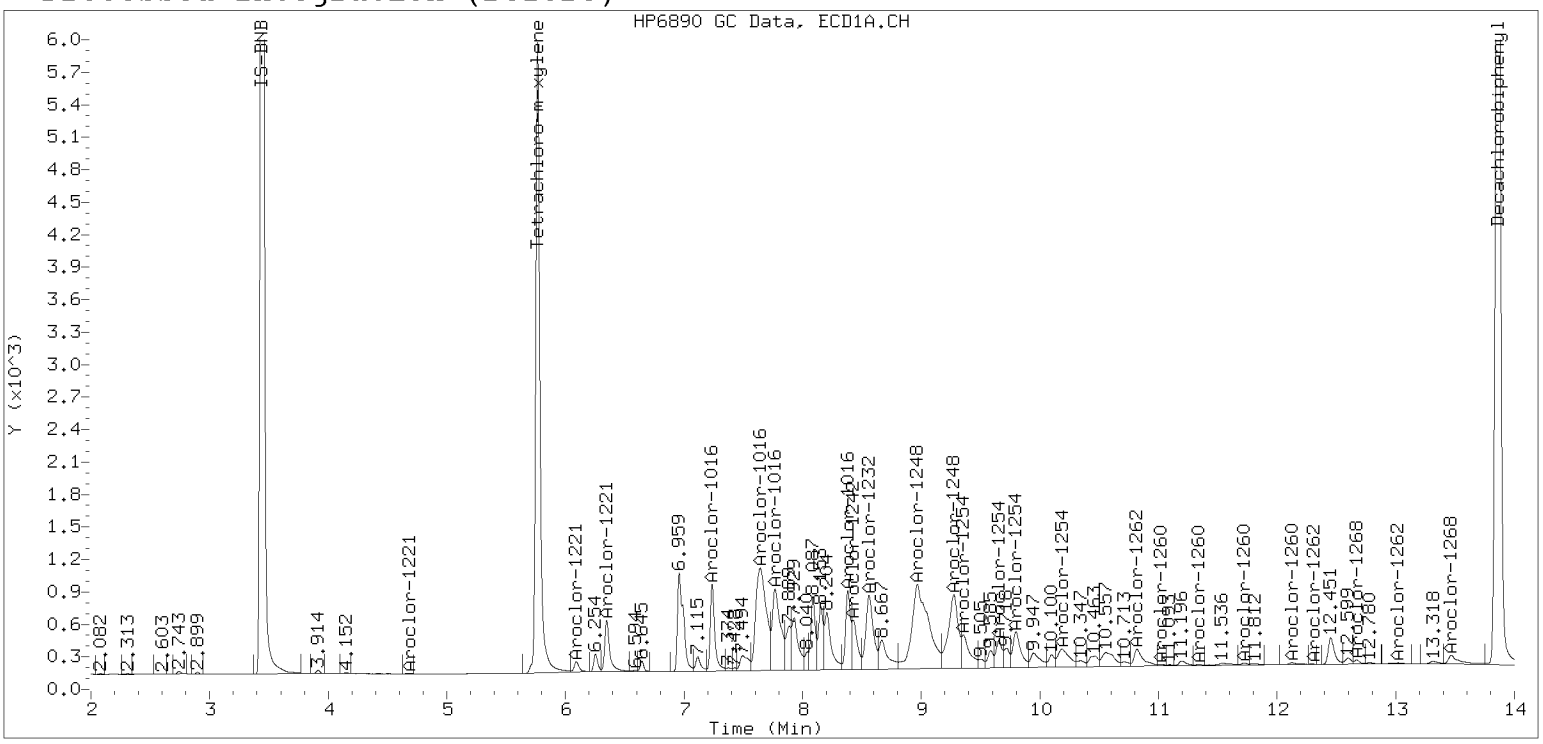
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282316ECD7.D Injection Date: 28-APR-2023 16:30

Manual Integration (After)



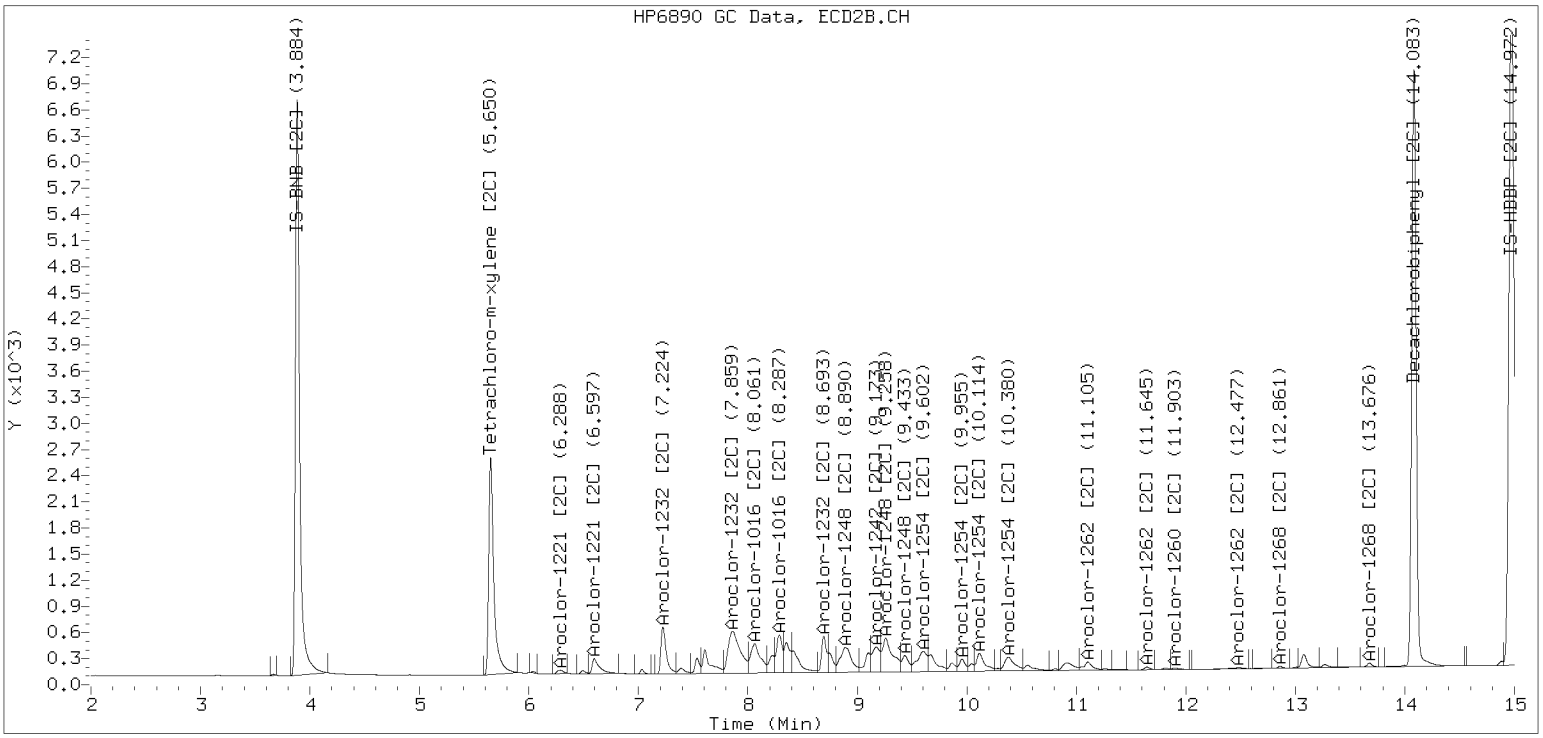
Processed Integration (Before)



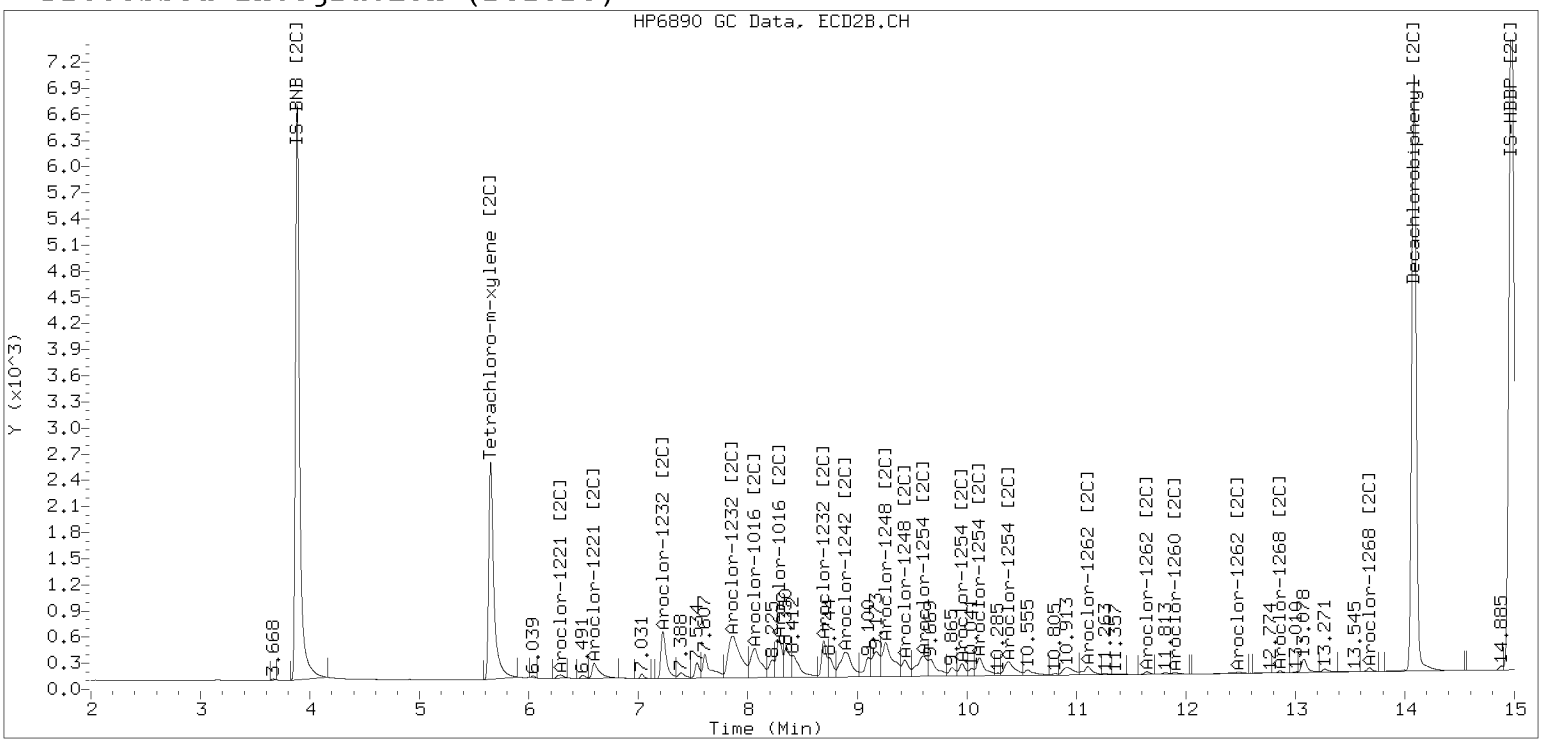
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282316ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	04282317ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLD0427	Injection Date:	04/28/23
Lab Sample ID:	SLD0427-SCV3	Injection Time:	16:51
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	257	0.0808031	0.0828683		2.9	+/-20
Aroclor 1248 [2C]	A	250.00	256	0.0431424	0.0441195		2.2	+/-20
Decachlorobiphenyl	A	40.000	34.9	0.8671959	0.7562407		-12.8	+/-20
Tetrachlorometaxylene	A	40.000	37.4	1.1690340	1.0920540		-6.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.2954910	1.2295870		-5.1	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.7	1.1231530	1.0303160		-8.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282317ECD7.D
Data file 2: /230428.b/230428.b/04282317ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 28-APR-2023 16:51
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	329945	5.650	-0.001	187741	37.4	36.7	1.8	Tetrachloro-m-xylene
13.863	0.002	459099	14.084	0.000	349285	34.9	38.0	8.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	604265	8.6
Hexabromobiphenyl	745660	1214161	62.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	364434	4.6
Hexabromobiphenyl	429949	568134	32.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	19001	81.3	1	7.223	0.002	18808	95.3
Aroclor-1016	2	7.640	0.012	74331	120.0	2	7.860	0.016	45610	116.9
Aroclor-1016	3	7.763	0.000	48390	115.4	3	8.066	0.011	19913	83.0
Aroclor-1016	4	8.380	0.004	75928	347.0	4	8.285	0.004	48388	270.6
Total Col1Ave (4 peaks):					165.9	Total Col2Ave (4 peaks):				141.4 RPD = 16
Corrected Ave (3 peaks):					105.6	Corrected Ave (3 peaks):				98.4 RPD = 7
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.088	-0.005	1143	12.3	2	6.298	0.033	1993	34.5
Aroclor-1221	3	6.349	0.002	3172	14.4	3	6.608	0.014	1326	10.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.088	-0.005	1143	17.6	2	7.223	-0.002	18808	215.6
Aroclor-1232	3	7.640	-0.012	74331	288.1	3	7.860	-0.003	45610	264.9
Aroclor-1232	4	8.559	-0.004	98972	823.6	4	8.691	-0.002	42787	807.0
Total Col1Ave (3 peaks):					376.4	Total Col2Ave (3 peaks):				429.1 RPD = 13
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.237	0.001	19001	100.8	1	7.223	0.001	18808	118.8
Aroclor-1242	2	7.640	0.001	74331	144.2	2	7.860	0.001	45610	144.0
Aroclor-1242	3	8.380	-0.001	75928	438.1	3	8.691	-0.476	42787	390.6
Aroclor-1242	4	8.559	-0.001	98972	385.9	4	8.885	-0.718	60719	540.0
Total Col1Ave (4 peaks):					267.2	Total Col2Ave (4 peaks):				298.3 RPD = 11
Corrected Ave (3 peaks):					210.3	Corrected Ave (3 peaks):				217.8 RPD = 4
Aroclor-1248	1	8.380	0.002	75928	260.1	1	8.285	0.000	48388	253.1
Aroclor-1248	2	8.559	0.000	98972	255.7	2	8.691	0.000	42787	254.2
Aroclor-1248	3	8.963	-0.001	294362	254.8	3	9.165	0.001	53988	261.5
Aroclor-1248	4	9.271	0.000	156668	258.2	4	9.587	-0.007	55820	253.5
Total Col1Ave (4 peaks):					257.2	Total Col2Ave (4 peaks):				255.6 RPD = 1
Corrected Ave (3 peaks):					256.2	Corrected Ave (3 peaks):				253.6 RPD = 1
Aroclor-1254	1	9.271	-0.004	156668	240.0	1	9.430	0.001	28754	105.5
Aroclor-1254	2	9.355	-0.004	60054	194.1	2	9.587	0.059	55820	336.1
Aroclor-1254	3	9.651	0.003	41060	99.5	3	9.952	0.002	23054	104.5
Aroclor-1254	4	9.793	0.004	73186	87.3	4	10.109	-0.001	44343	92.9
Aroclor-1254	5	10.182	0.013	49460	112.2	5	10.379	0.023	41423	75.5
Total Col1Ave (5 peaks):					146.6	Total Col2Ave (5 peaks):				142.9 RPD = 3
Corrected Ave (4 peaks):					123.3	Corrected Ave (4 peaks):				94.6 RPD = 26
Aroclor-1260	1	11.026	0.009	2009	2.9	1	11.643	0.019	2501	6.2
Aroclor-1260	2	11.340	0.006	1228	1.8	2	11.901	0.009	2130	2.0
Aroclor-1260	3	11.721	0.011	1976	1.1	3	12.414	0.007	826	3.4
Aroclor-1260	4	12.127	0.011	1326	1.5	4	12.479	0.004	1478	2.0
Aroclor-1260	5	12.220	0.004	573	1.4	NS	---			----
Total Col1Ave (5 peaks):					1.7	Total Col2Ave (4 peaks):				3.4 RPD = 65*
Corrected Ave (4 peaks):					1.4	Corrected Ave (3 peaks):				2.5 RPD = 54*
Aroclor-1262	1	10.818	0.009	19667	41.5	1	11.104	-0.069	9341	16.4
Aroclor-1262	2	12.220	0.003	573	0.7	2	11.643	0.019	2501	5.2
Aroclor-1262	3	12.296	0.004	674	0.7	3	12.414	0.010	826	1.6
Aroclor-1262	4	12.967	0.005	1383	1.9	4	12.479	0.004	1478	1.7
Total Col1Ave (4 peaks):					11.2	Total Col2Ave (4 peaks):				6.3 RPD = 57*
Corrected Ave (3 peaks):					1.1	Corrected Ave (3 peaks):				2.9 RPD = 88*
Aroclor-1268	1	12.220	0.002	573	0.3	1	12.414	0.011	826	0.6
Aroclor-1268	2	12.296	0.005	674	0.3	2	12.479	0.008	1478	1.0
Aroclor-1268	3	12.671	0.002	2312	1.3	3	12.861	0.002	1020	0.8
Aroclor-1268	4	13.469	0.008	7516	1.4	4	13.678	0.001	2531	0.7
Total Col1Ave (4 peaks):					0.8	Total Col2Ave (4 peaks):				0.8 RPD = 6
Corrected Ave (3 peaks):					0.6	Corrected Ave (3 peaks):				0.7 RPD = 13

Total PCB Area Col1 (5.866 - 13.762) = 1600602 Col1 Total PCB = 0.2 ppm*

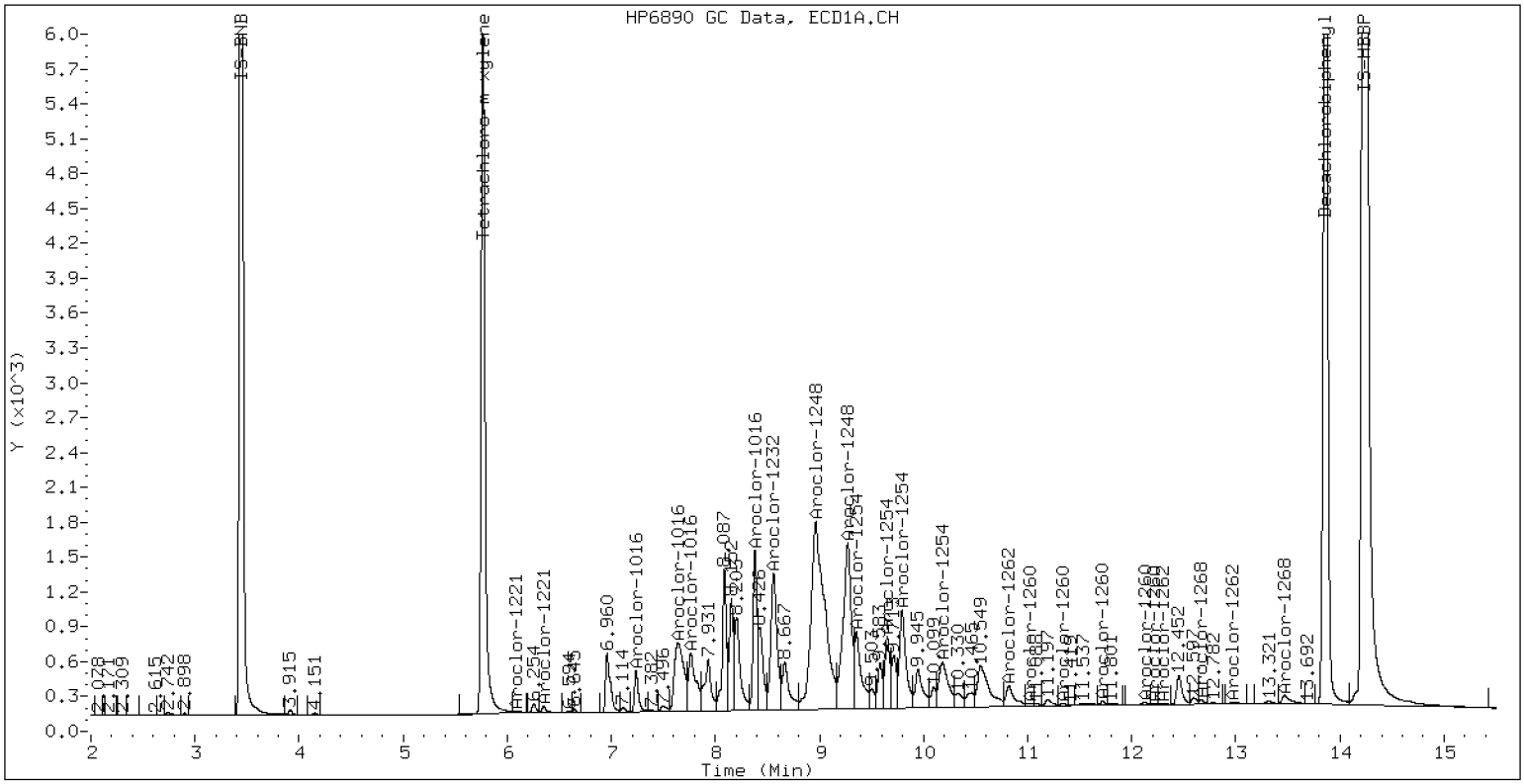
Total PCB Area Col2 (5.751 - 13.984) = 860562 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

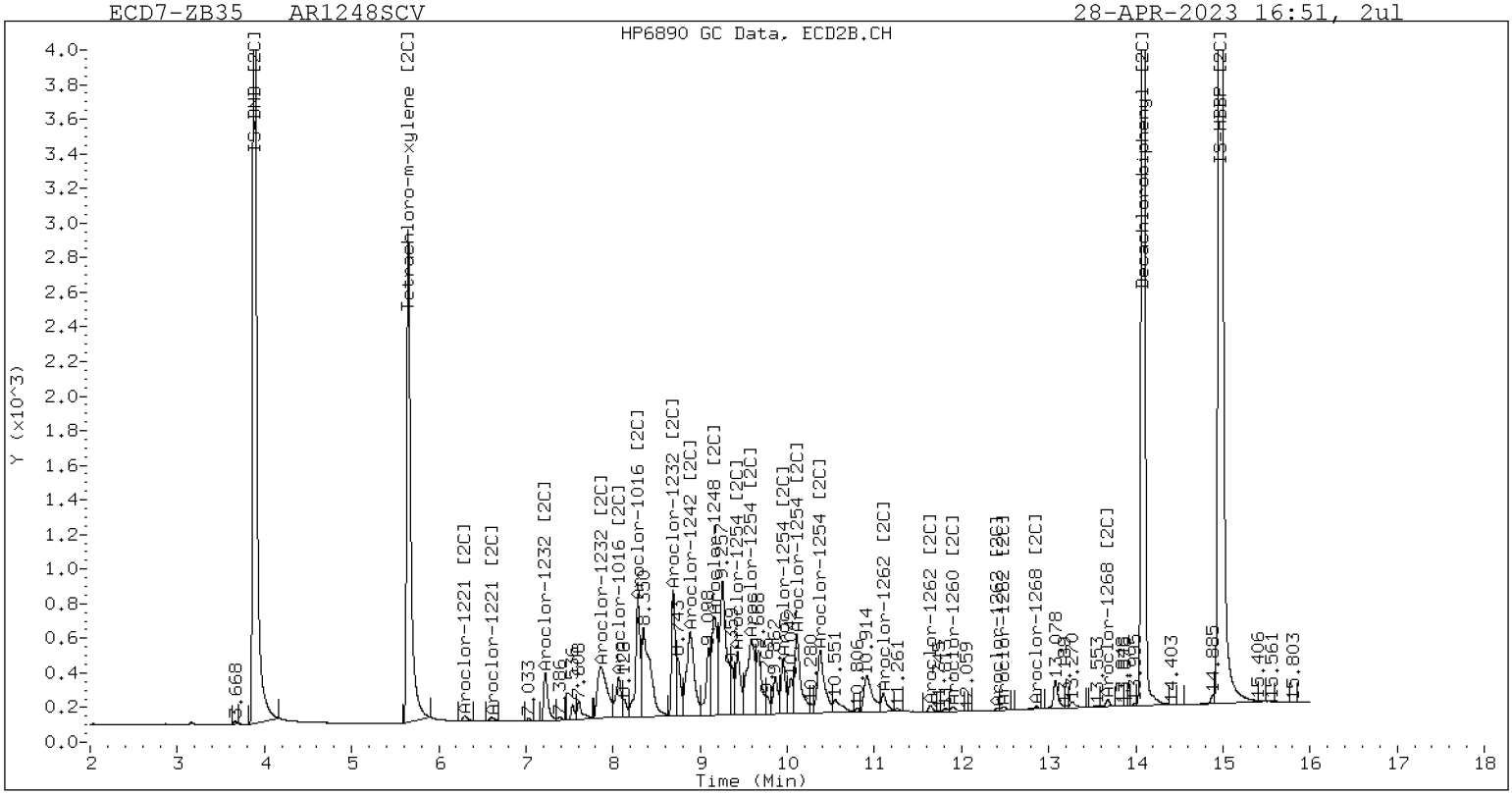
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 28-APR-2023 16:51, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248SCV 28-APR-2023 16:51, 2ul

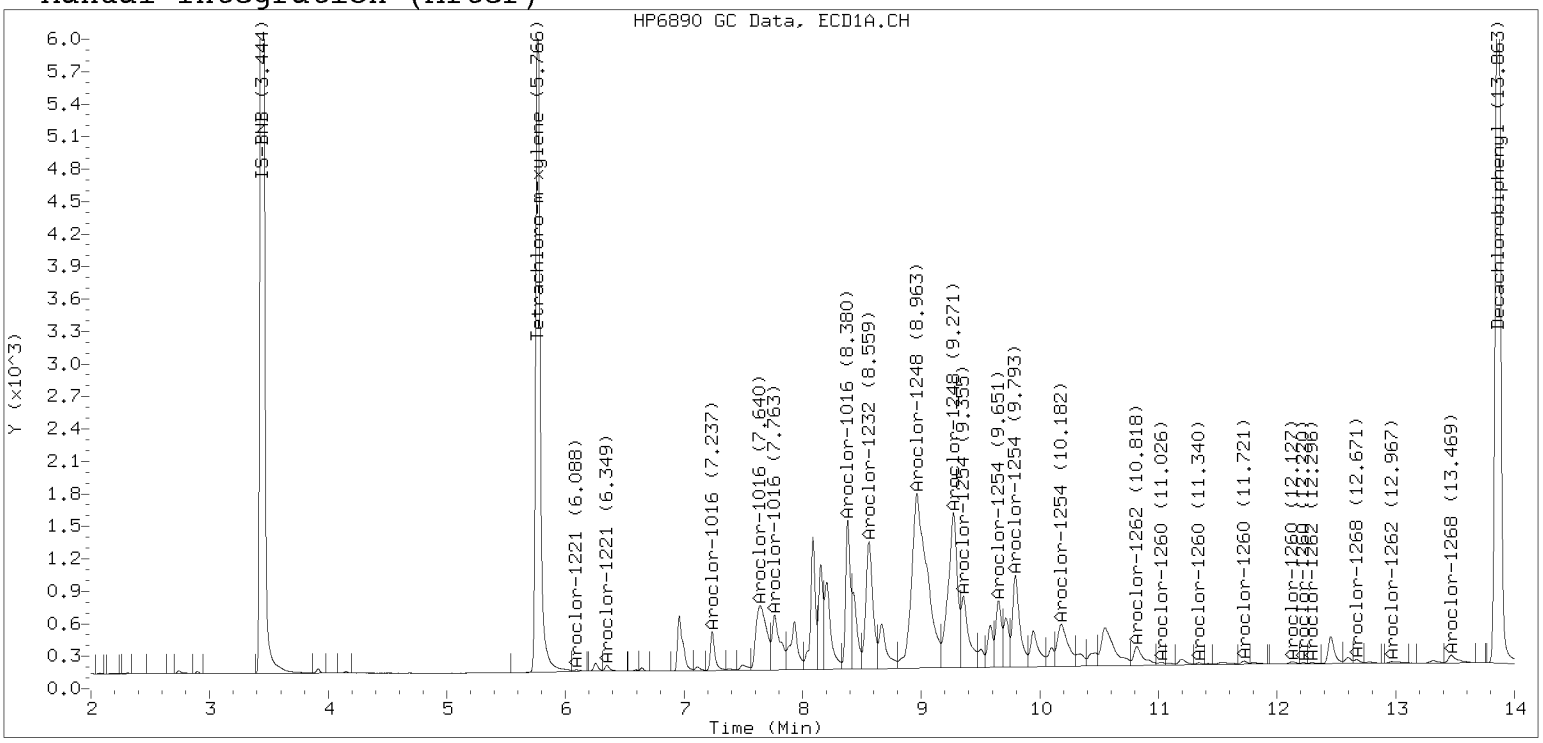


ZB-35 Manual Integration: YES

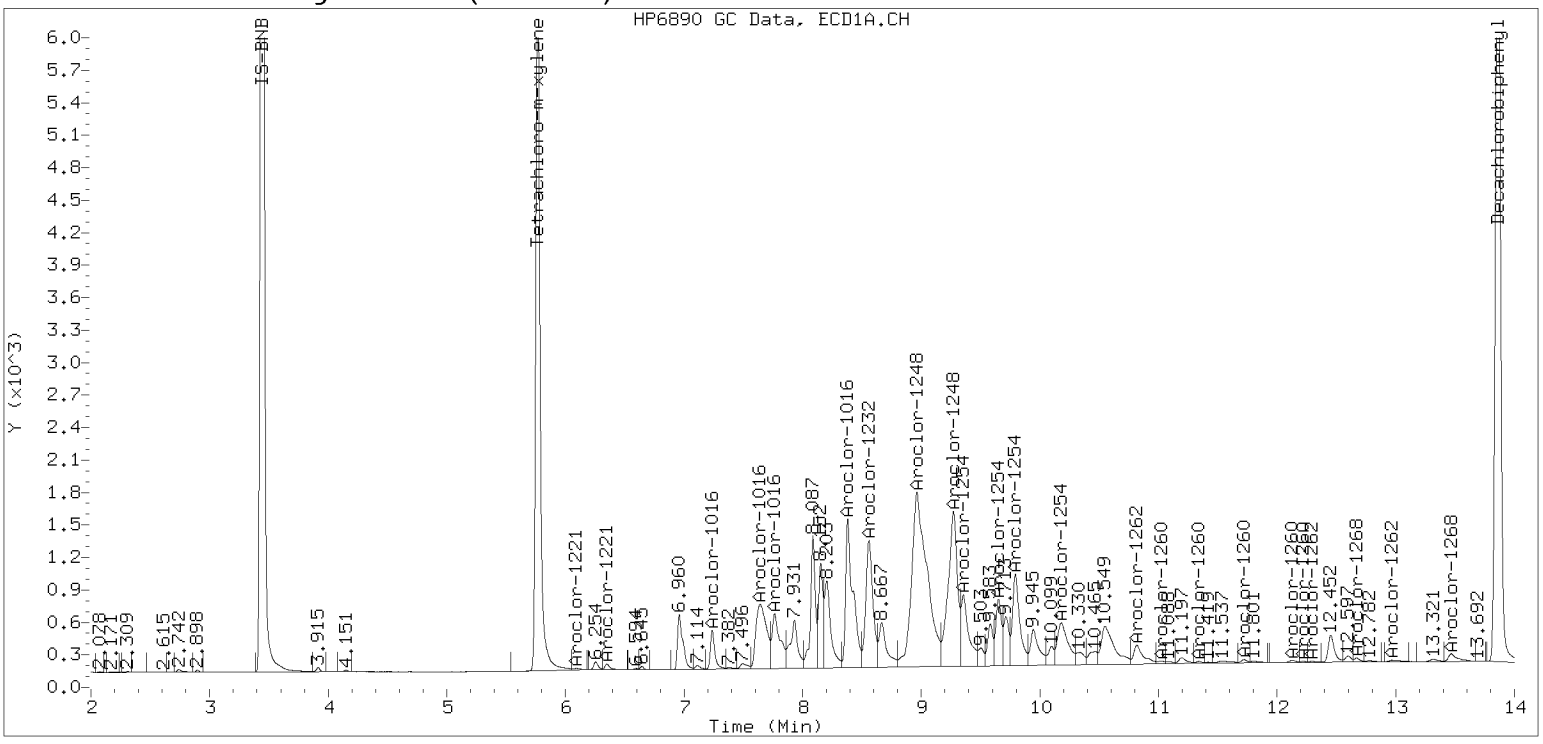
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282317ECD7.D Injection Date: 28-APR-2023 16:51

Manual Integration (After)



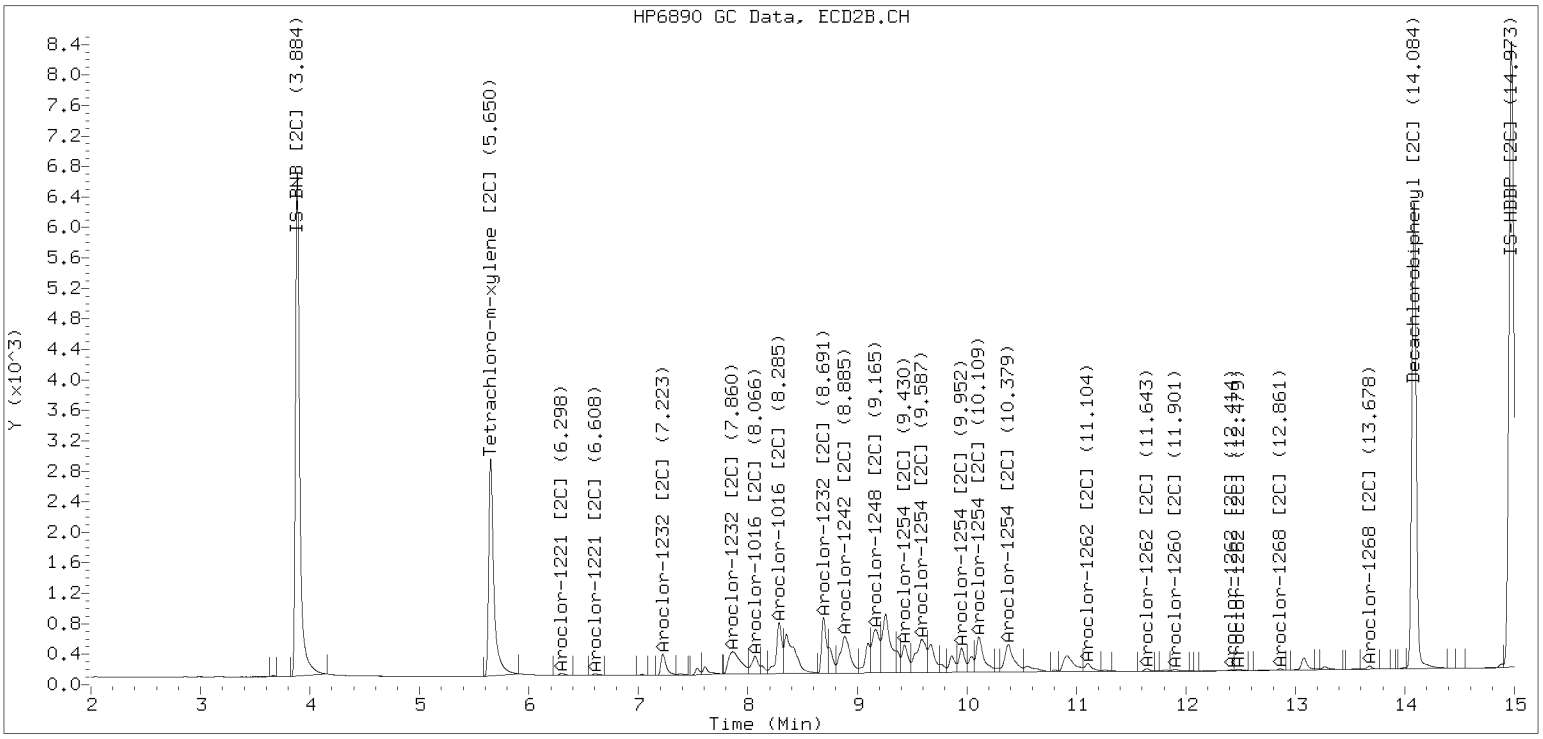
Processed Integration (Before)



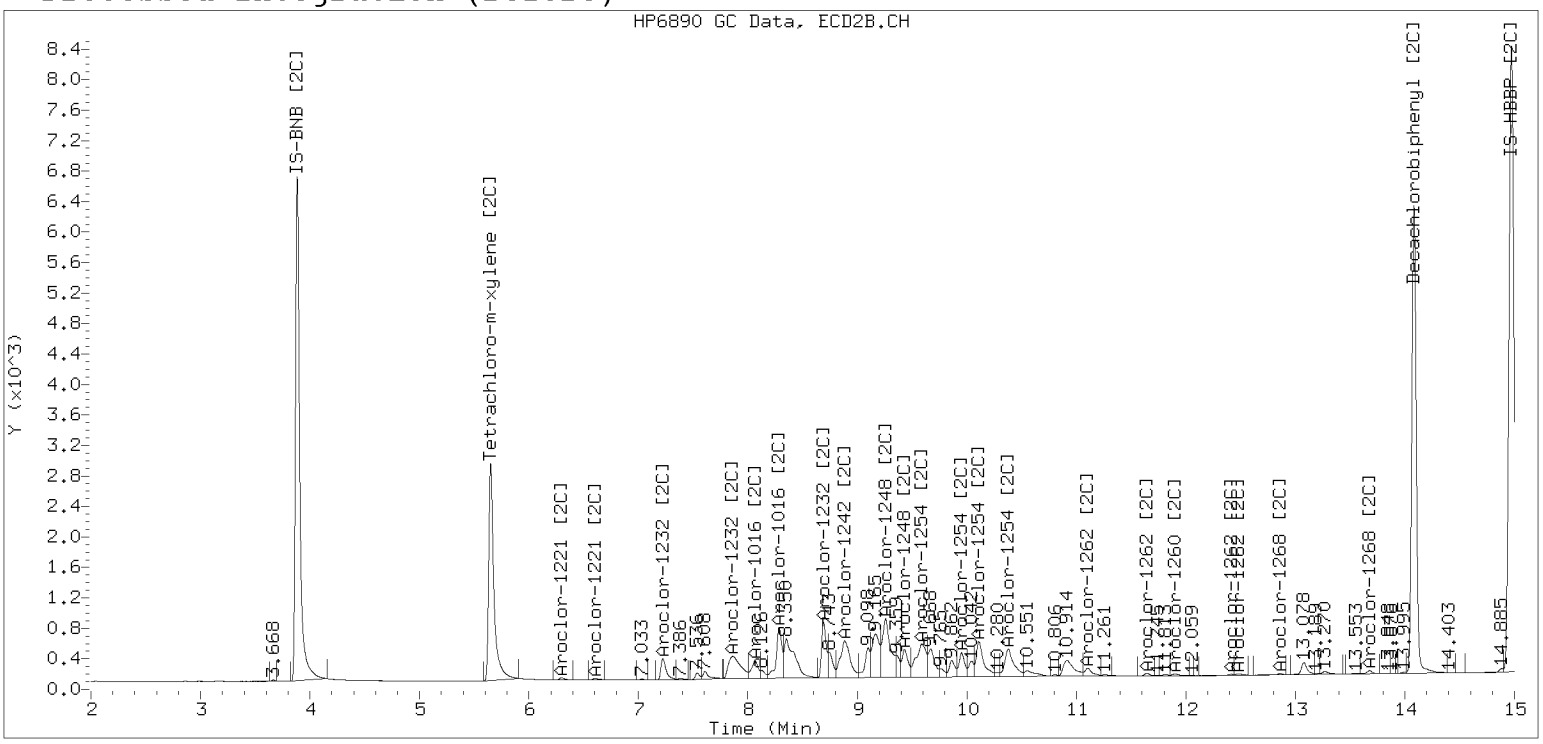
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282317ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	04282318ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLD0427	Injection Date:	04/28/23
Lab Sample ID:	SLD0427-SCV4	Injection Time:	17:12
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	242	0.0702659	0.0675983		-3.4	+/-20
Aroclor 1254 [2C]	A	250.00	234	0.0739953	0.0679071		-6.2	+/-20
Decachlorobiphenyl	A	40.000	34.8	0.8671959	0.7542046		-13.0	+/-20
Tetrachlorometaxylene	A	40.000	38.3	1.1690340	1.1204030		-4.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.3	1.2954910	1.2420100		-4.1	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.3	1.1231530	1.0472380		-6.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282318ECD7.D
Data file 2: /230428.b/230428.b/04282318ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 28-APR-2023 17:12
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	338365	5.650	-0.001	190789	38.3	37.3	2.7	Tetrachloro-m-xylene
13.863	0.001	478757	14.083	-0.001	359021	34.8	38.3	9.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	604006	8.6
Hexabromobiphenyl	745660	1269568	70.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	364366	4.6
Hexabromobiphenyl	429949	578129	34.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.239	0.004	417	1.8	1	7.234	0.013	203	1.0
Aroclor-1016	2	7.672	0.044	1503	2.4	2	---			0.0
Aroclor-1016	3	7.760	-0.003	1975	4.7	3	8.071	0.016	434	1.8
Aroclor-1016	4	8.383	0.006	29140	133.2	4	8.285	0.004	22382	125.2
	Total Col1Ave (4 peaks):				35.5	Total Col2Ave (3 peaks):				42.7 RPD = 18
	Corrected Ave (3 peaks):				3.0	Corrected Ave: < 3 Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.297	0.032	1765	30.5
Aroclor-1221	3	---			0.0	3	6.613	0.019	308	2.3
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.234	0.010	203	2.3
Aroclor-1232	3	7.672	0.020	1503	5.8	3	---			0.0
Aroclor-1232	4	8.568	0.004	12422	103.4	4	8.695	0.001	16356	308.5
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	7.239	0.002	417	2.2	1	7.234	0.012	203	1.3
Aroclor-1242	2	7.672	0.033	1503	2.9	2	---			0.0
Aroclor-1242	3	8.383	0.001	29140	168.2	3	8.695	-0.473	16356	149.3
Aroclor-1242	4	8.568	0.007	12422	48.5	4	8.889	-0.714	7125	63.4
	Total Col1Ave (4 peaks):				55.4	Total Col2Ave (3 peaks):				71.3 RPD = 25
	Corrected Ave (3 peaks):				17.9	Corrected Ave: < 3 Peaks				
Aroclor-1248	1	8.383	0.004	29140	99.9	1	8.695	0.410	16356	85.6
Aroclor-1248	2	8.568	0.008	12422	32.1	2	8.889	0.198	7125	42.3
Aroclor-1248	3	8.967	0.003	131799	114.1	3	9.259	0.095	58924	285.5
Aroclor-1248	4	9.276	0.005	155956	257.1	4	9.430	-0.164	67213	305.3
	Total Col1Ave (4 peaks):				125.8	Total Col2Ave (4 peaks):				179.7 RPD = 35
	Corrected Ave (3 peaks):				82.0	Corrected Ave (3 peaks):				137.8 RPD = 51*
Aroclor-1254	1	9.276	0.000	155956	239.0	1	9.430	0.000	67213	246.7
Aroclor-1254	2	9.356	-0.002	75626	244.6	2	9.527	-0.001	39667	238.9
Aroclor-1254	3	9.648	0.001	99996	242.4	3	9.950	-0.000	53621	243.2
Aroclor-1254	4	9.788	-0.001	198294	236.6	4	10.109	-0.001	114263	239.3
Aroclor-1254	5	10.164	-0.004	108093	245.4	5	10.355	-0.001	111846	203.8
	Total Col1Ave (5 peaks):				241.6	Total Col2Ave (5 peaks):				234.4 RPD = 3
	Corrected Ave (4 peaks):				240.7	Corrected Ave (4 peaks):				231.3 RPD = 4
Aroclor-1260	1	11.018	0.001	14792	20.6	1	11.639	0.015	34047	82.8
Aroclor-1260	2	11.338	0.005	15335	21.1	2	11.896	0.004	28313	26.2
Aroclor-1260	3	11.716	0.006	37253	19.7	3	12.479	0.072	16654	67.8
Aroclor-1260	4	12.122	0.006	28154	30.1	4	---			0.0
Aroclor-1260	5	12.293	0.077	2641	6.2	NS	---			----
	Total Col1Ave (5 peaks):				19.5	Total Col2Ave (3 peaks):				58.9 RPD = 100*
	Corrected Ave (4 peaks):				16.9	Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.810	0.002	229213	462.7	1	11.097	-0.076	148180	256.4
Aroclor-1262	2	12.293	0.076	2641	3.1	2	11.639	0.015	34047	69.9
Aroclor-1262	3	---			0.0	3	12.479	0.076	16654	32.5
Aroclor-1262	4	12.965	0.003	1702	2.2	4	---			0.0
	Total Col1Ave (3 peaks):				156.0	Total Col2Ave (3 peaks):				119.6 RPD = 26
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1268	1	12.293	0.075	2641	1.2	1	12.479	0.076	16654	12.5
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.672	0.003	2924	1.5	3	12.859	0.000	1168	0.9
Aroclor-1268	4	13.468	0.007	11477	2.1	4	13.677	0.000	2357	0.6
	Total Col1Ave (3 peaks):				1.6	Total Col2Ave (3 peaks):				4.7 RPD = 97*
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				

Total PCB Area Col1 (5.866 - 13.762) = 2154735 Col1 Total PCB = 0.3 ppm*

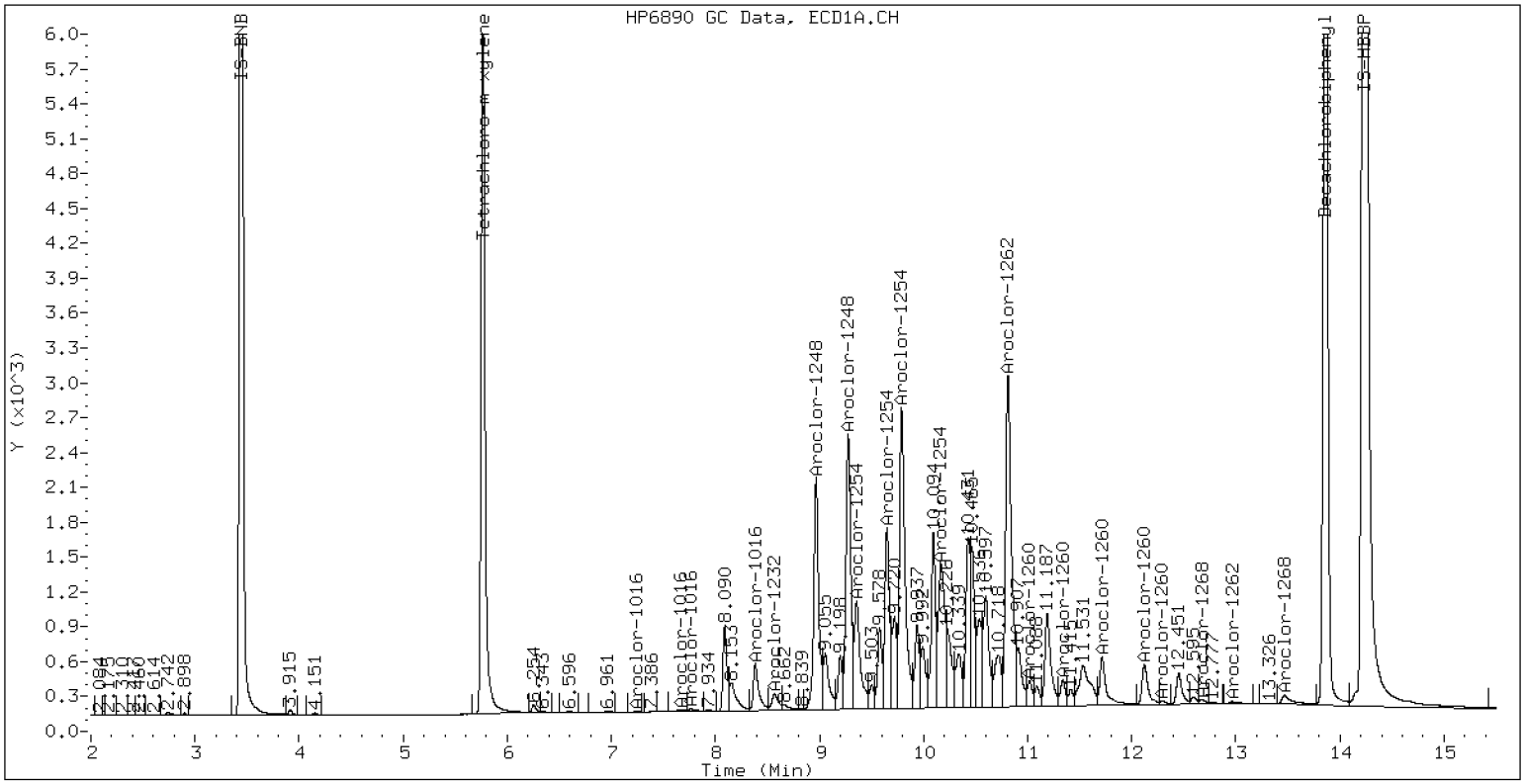
Total PCB Area Col2 (5.751 - 13.984) = 1162346 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

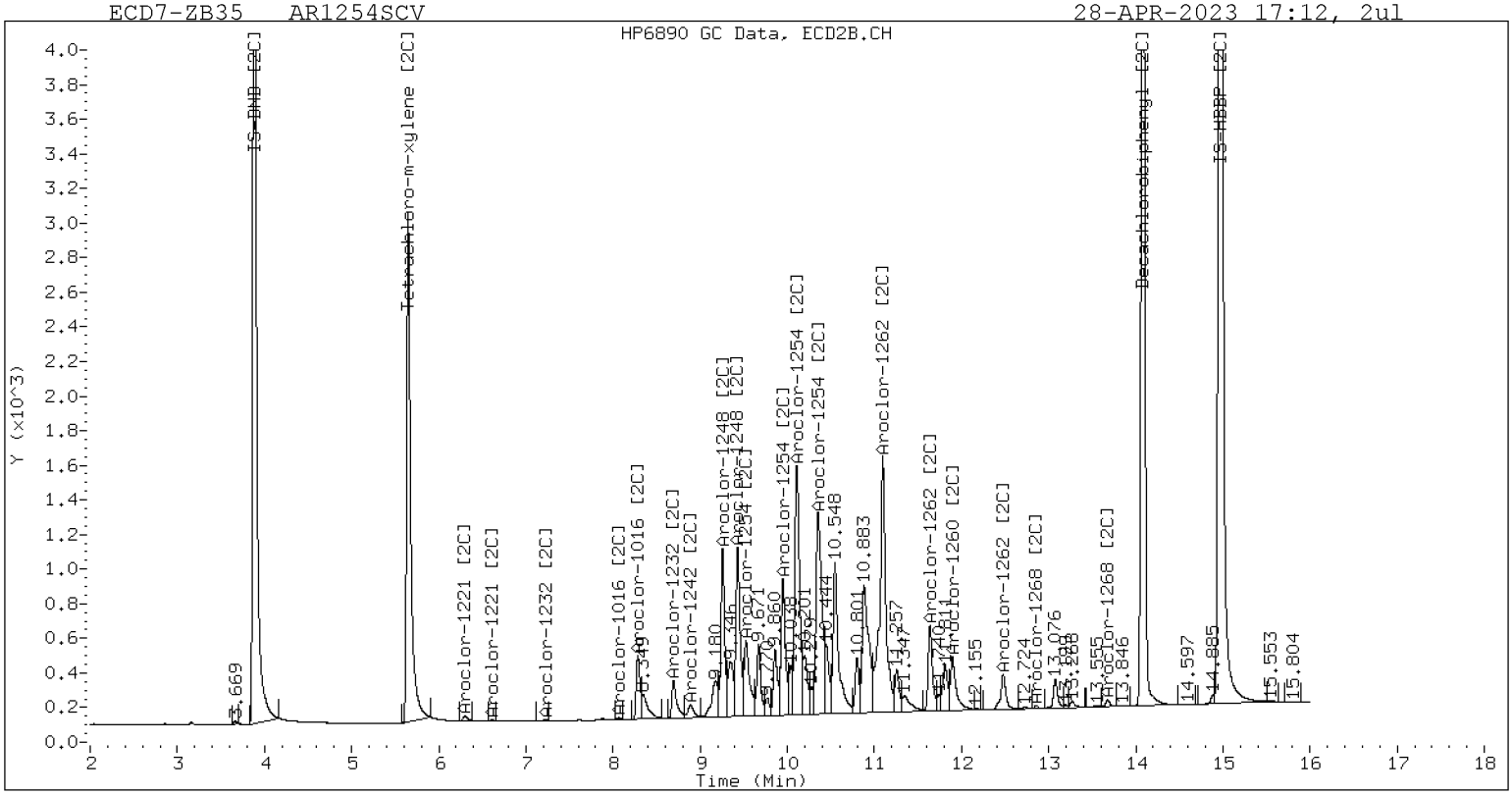
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 28-APR-2023 17:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254SCV 28-APR-2023 17:12, 2ul

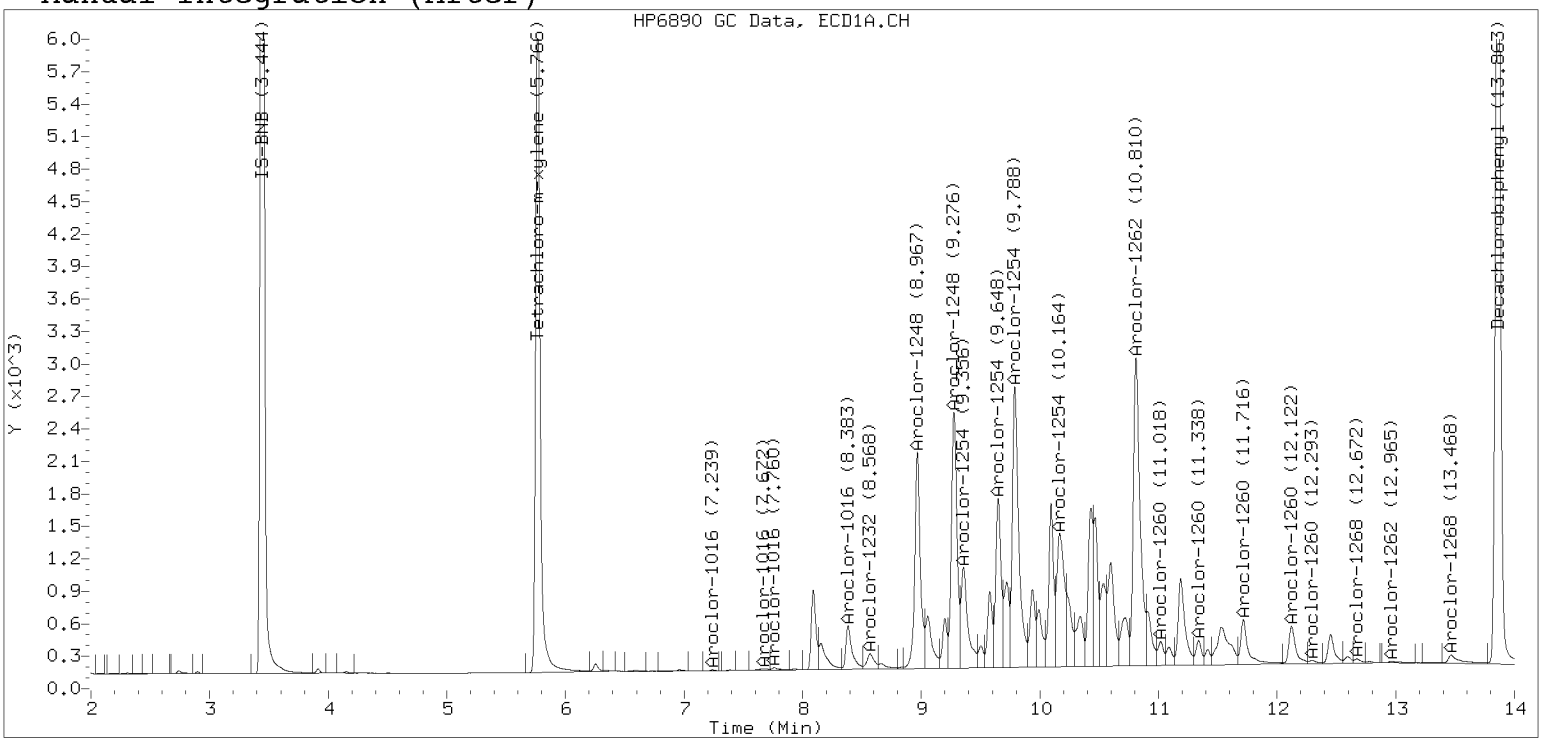


ZB-35 Manual Integration: YES

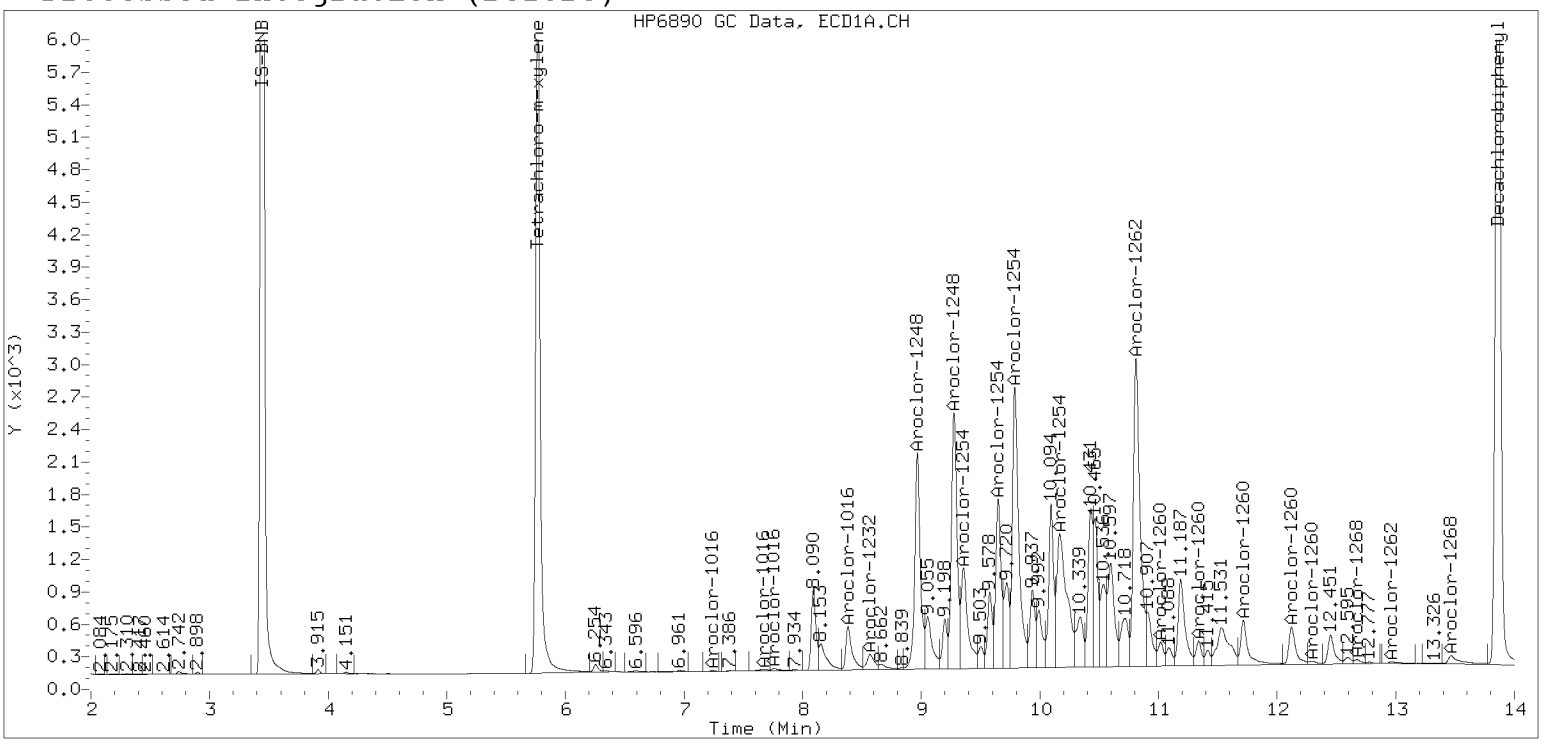
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230428.b/04282318ECD7.D Injection Date: 28-APR-2023 17:12

Manual Integration (After)



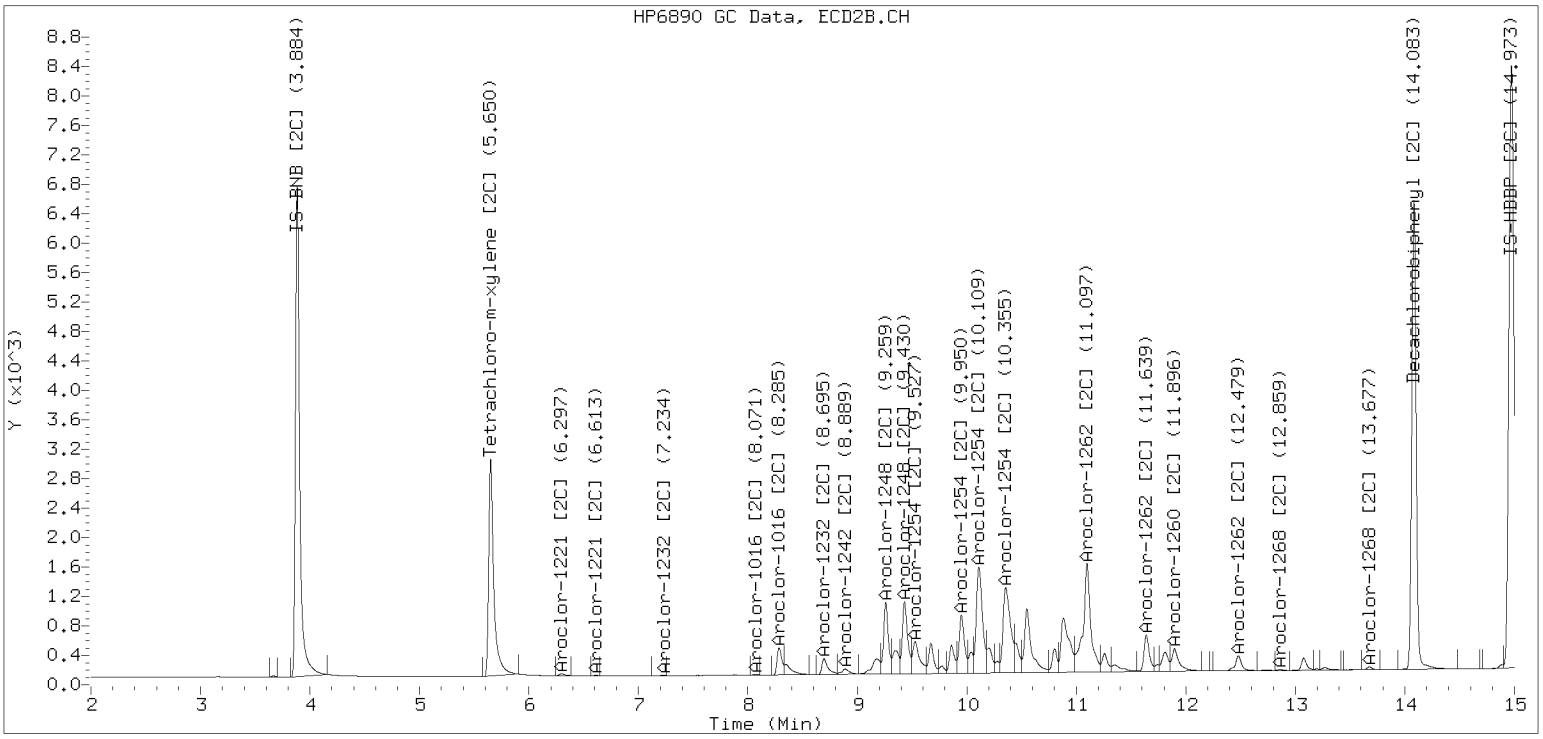
Processed Integration (Before)



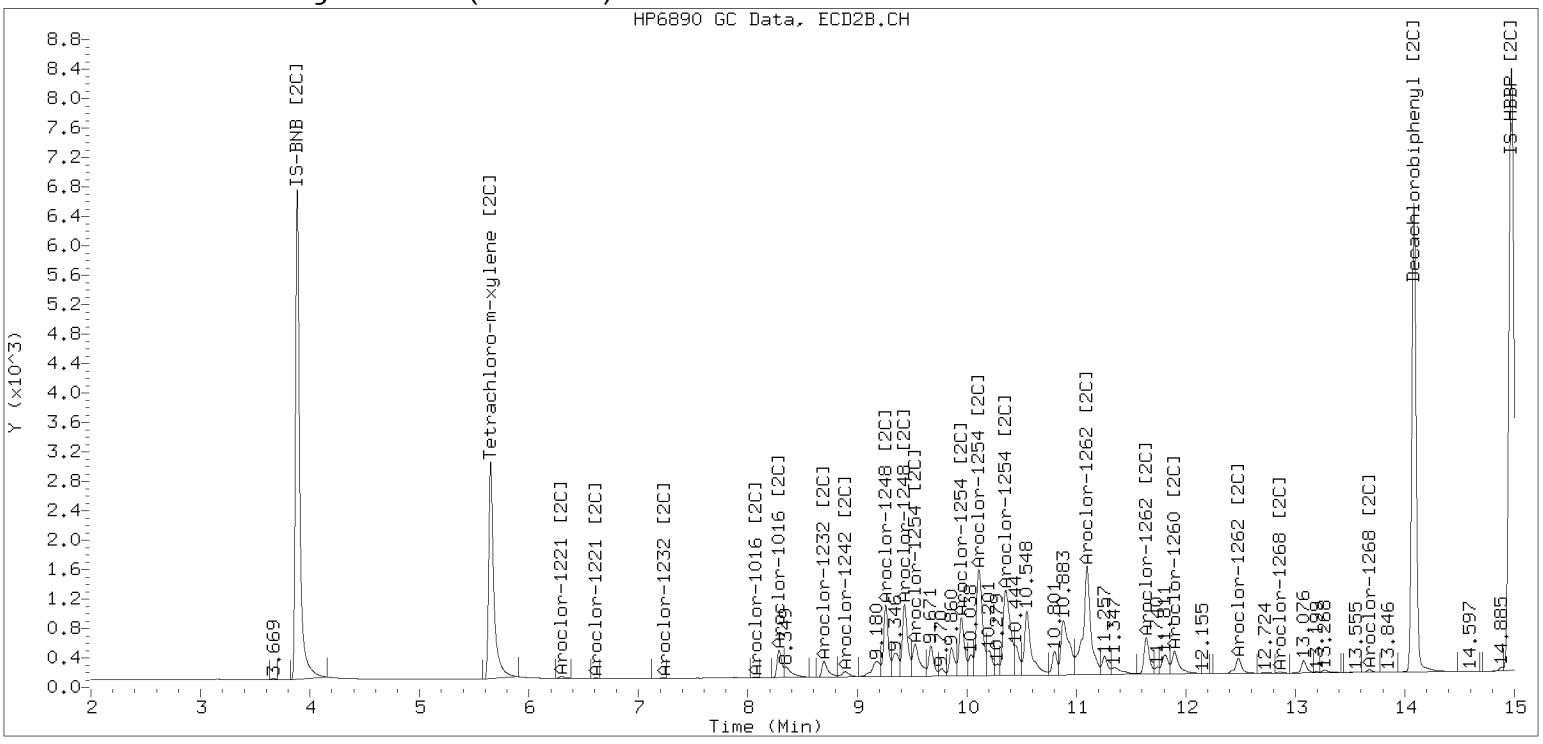
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282318ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	04282319ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLD0427	Injection Date:	04/28/23
Lab Sample ID:	SLD0427-SCV5	Injection Time:	17:33
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	269	0.0158494	0.0168244		7.7	+/-20
Aroclor 1221 [2C]	A	250.00	276	0.0158867	0.0171029		10.5	+/-20
Aroclor 1262	A	250.00	254	0.0484992	0.0493166		1.7	+/-20
Aroclor 1262 [2C]	A	250.00	255	0.0852231	0.0869928		2.0	+/-20
Decachlorobiphenyl	A	40.000	35.9	0.8671959	0.7785743		-10.2	+/-20
Tetrachlorometaxylene	A	40.000	38.3	1.1690340	1.1184950		-4.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.9	1.2954910	1.2611750		-2.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.0	1.1231530	1.0675380		-5.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282319ECD7.D
Data file 2: /230428.b/230428.b/04282319ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 28-APR-2023 17:33
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	336477	5.650	-0.001	192040	38.3	38.0	0.7	Tetrachloro-m-xylene
13.862	0.001	499246	14.084	-0.000	363267	35.9	38.9	8.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	601660	8.2
Hexabromobiphenyl	745660	1282462	72.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	359781	3.2
Hexabromobiphenyl	429949	576077	34.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.002	5001	21.5	1	7.227	0.005	3885	19.9
Aroclor-1016	2	7.665	0.037	8647	14.0	2	7.887	0.043	4451	11.6
Aroclor-1016	3	7.777	0.014	6495	15.6	3	8.066	0.012	2267	9.6
Aroclor-1016	4	8.388	0.012	2933	13.5	4	8.290	0.009	1849	10.5
Total Col1Ave (4 peaks):		16.1			Total Col2Ave (4 peaks):		12.9	RPD = 22		
Corrected Ave (3 peaks):		14.3			Corrected Ave (3 peaks):		10.5	RPD = 31		
Aroclor-1221	1	4.683	0.001	12932	280.8	1	4.911	0.000	7988	299.1
Aroclor-1221	2	6.094	0.000	24389	264.0	2	6.265	-0.001	15133	265.2
Aroclor-1221	3	6.348	0.002	57578	262.7	3	6.593	-0.000	34566	264.7
Total Col1Ave (3 peaks):		269.2			Total Col2Ave (3 peaks):		276.3	RPD = 3		
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks					
Aroclor-1232	1	4.683	0.001	12932	441.6	1	4.911	-0.001	7988	515.9
Aroclor-1232	2	6.094	0.001	24389	376.5	2	7.227	0.002	3885	45.1
Aroclor-1232	3	7.665	0.013	8647	33.7	3	7.887	0.025	4451	26.2
Aroclor-1232	4	8.569	0.006	1975	16.5	4	8.699	0.005	1706	32.6
Total Col1Ave (4 peaks):		217.1			Total Col2Ave (4 peaks):		154.9	RPD = 33		
Corrected Ave (3 peaks):		142.2			Corrected Ave (3 peaks):		34.6	RPD = 122*		
Aroclor-1242	1	7.237	0.001	5001	26.6	1	7.227	0.005	3885	24.9
Aroclor-1242	2	7.665	0.026	8647	16.9	2	7.887	0.029	4451	14.2
Aroclor-1242	3	8.388	0.006	2933	17.0	3	8.699	-0.469	1706	15.8
Aroclor-1242	4	8.569	0.009	1975	7.7	4	8.906	-0.697	1208	10.9
Total Col1Ave (4 peaks):		17.1			Total Col2Ave (4 peaks):		16.4	RPD = 4		
Corrected Ave (3 peaks):		13.9			Corrected Ave (3 peaks):		13.6	RPD = 2		
Aroclor-1248	1	8.388	0.009	2933	10.1	1	8.699	0.414	1706	9.0
Aroclor-1248	2	8.569	0.010	1975	5.1	2	8.906	0.215	1208	7.3
Aroclor-1248	3	8.970	0.006	23869	20.7	3	9.261	0.098	12638	62.0
Aroclor-1248	4	9.284	0.013	28188	46.7	4	9.437	-0.157	13948	64.2
Total Col1Ave (4 peaks):		20.7			Total Col2Ave (4 peaks):		35.6	RPD = 53*		
Corrected Ave (3 peaks):		12.0			Corrected Ave (3 peaks):		26.1	RPD = 74*		
Aroclor-1254	1	9.284	0.009	28188	43.4	1	9.437	0.007	13948	51.9
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.654	0.006	4038	9.8	3	9.958	0.008	1791	8.2
Aroclor-1254	4	9.795	0.005	11586	13.9	4	10.124	0.014	55476	117.7
Aroclor-1254	5	10.096	-0.072	138022	314.6	5	10.346	-0.010	70184	129.5
Total Col1Ave (4 peaks):		95.4			Total Col2Ave (4 peaks):		76.8	RPD = 22		
Corrected Ave (3 peaks):		22.4			Corrected Ave (3 peaks):		59.3	RPD = 90*		
Aroclor-1260	1	11.019	0.002	240553	332.2	1	11.623	-0.001	124057	302.7
Aroclor-1260	2	11.335	0.002	202728	276.0	2	11.893	0.001	303878	282.5
Aroclor-1260	3	11.713	0.003	494200	259.3	3	12.405	-0.002	129175	527.4
Aroclor-1260	4	12.118	0.002	155139	164.1	4	12.475	0.000	226410	308.9
Aroclor-1260	5	12.217	0.001	214340	494.2	NS	---			----
Total Col1Ave (5 peaks):		305.2			Total Col2Ave (4 peaks):		355.4	RPD = 15		
Corrected Ave (4 peaks):		257.9			Corrected Ave (3 peaks):		298.1	RPD = 14		
Aroclor-1262	1	10.809	0.000	123367	246.5	1	11.173	-0.000	146790	254.9
Aroclor-1262	2	12.217	0.001	214340	245.2	2	11.623	-0.001	124057	255.8
Aroclor-1262	3	12.293	0.001	236304	246.0	3	12.405	0.001	129175	252.9
Aroclor-1262	4	12.963	0.001	216573	279.5	4	12.475	-0.000	226410	256.4
Total Col1Ave (4 peaks):		254.3			Total Col2Ave (4 peaks):		255.0	RPD = 0		
Corrected Ave (3 peaks):		245.9			Corrected Ave (3 peaks):		254.5	RPD = 3		
Aroclor-1268	1	12.217	-0.001	214340	97.4	1	12.405	0.001	129175	97.0
Aroclor-1268	2	12.293	0.002	236304	103.1	2	12.475	0.004	226410	149.9
Aroclor-1268	3	12.700	0.031	85797	45.0	3	12.859	0.001	9727	7.8
Aroclor-1268	4	13.461	0.001	83654	15.2	4	13.678	0.001	40997	10.8
Total Col1Ave (4 peaks):		65.2			Total Col2Ave (4 peaks):		66.4	RPD = 2		

Corrected Ave (3 peaks): 52.5 Corrected Ave (3 peaks): 38.5 RPD = 31

Total PCB Area Col1 (5.866 - 13.762) = 3513270 Col1 Total PCB = 0.5 ppm*

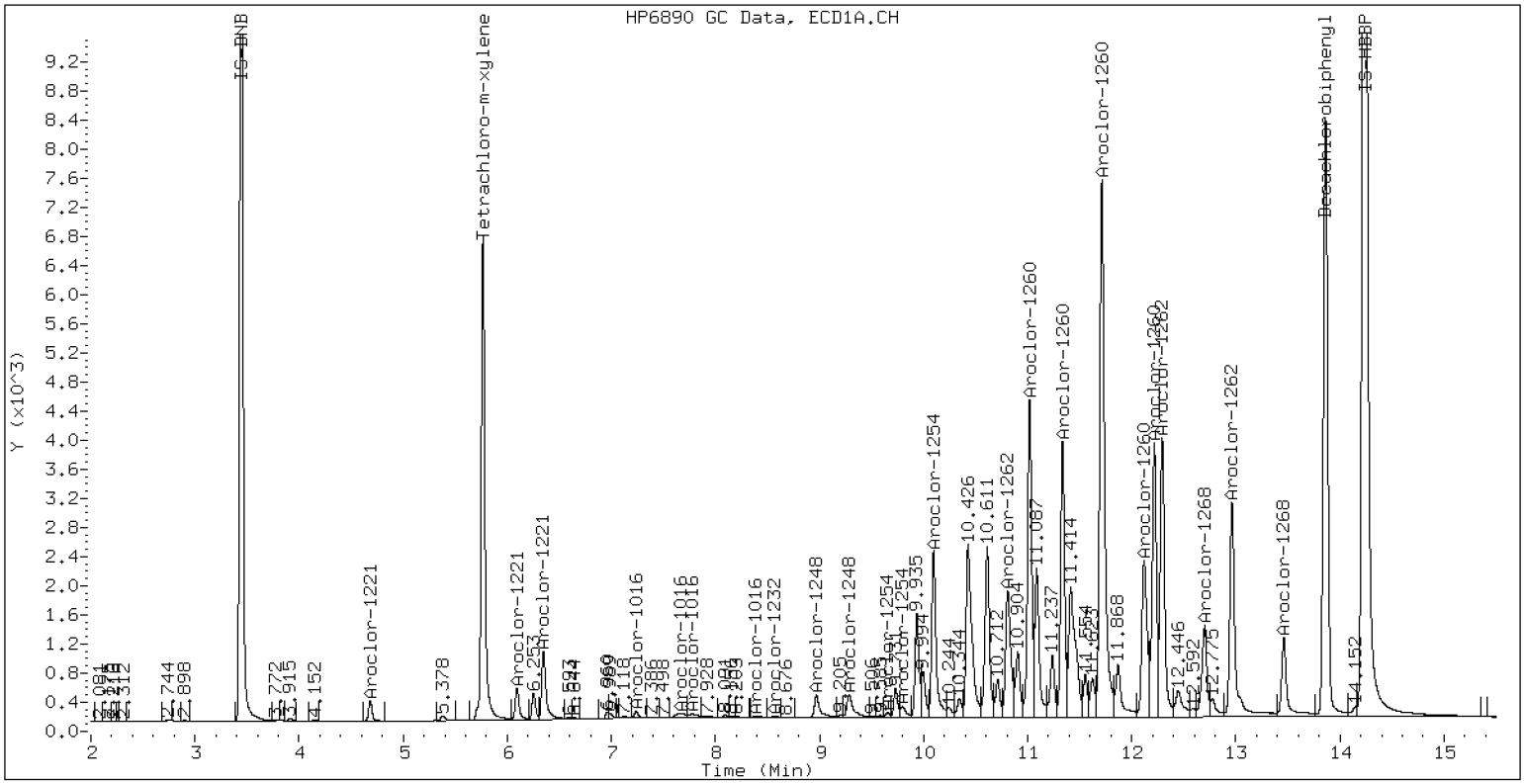
Total PCB Area Col2 (5.751 - 13.984) = 1957095 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

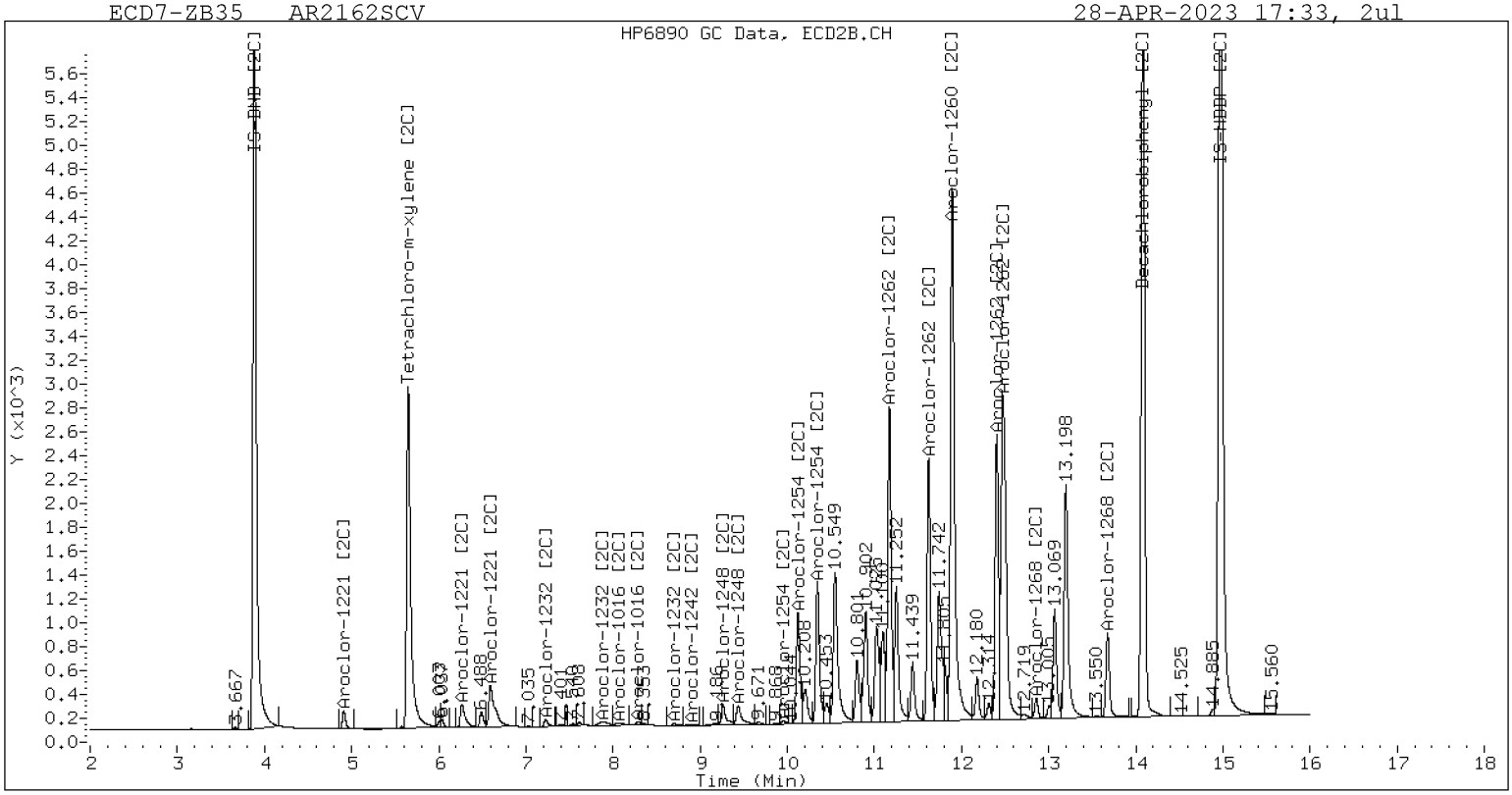
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 28-APR-2023 17:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 28-APR-2023 17:33, 2ul

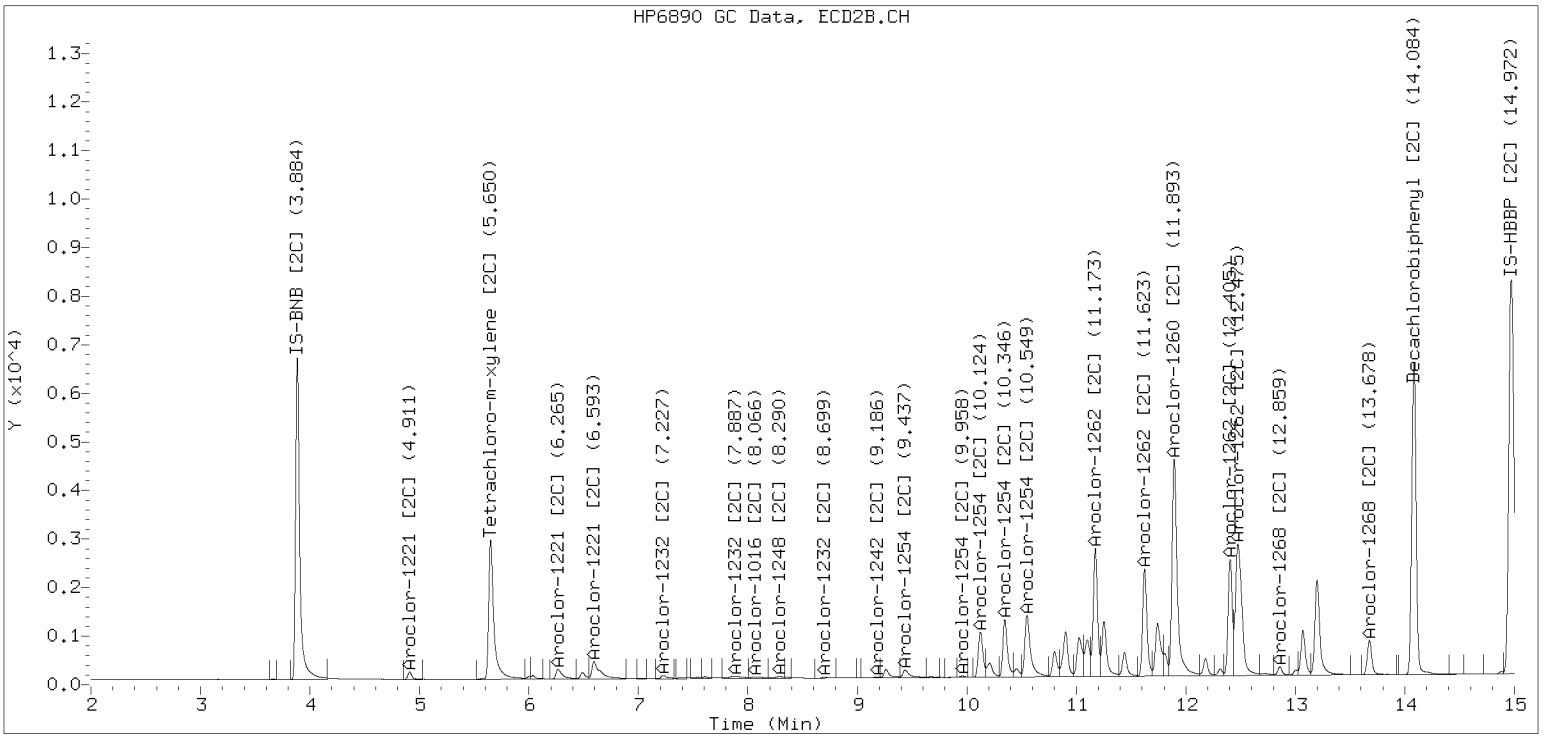


ZB-35 Manual Integration: NO

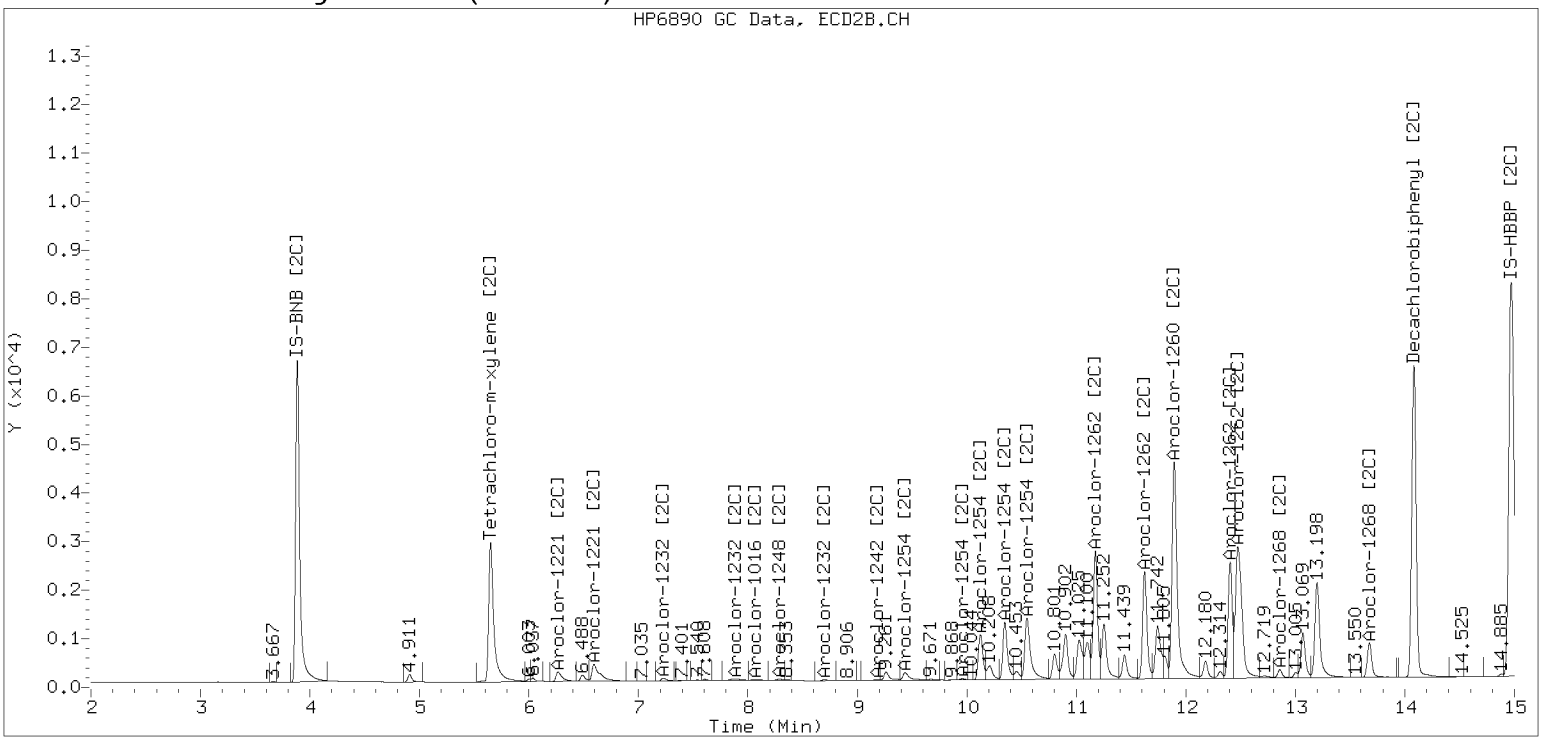
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282319ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	04282320ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLD0427	Injection Date:	04/28/23
Lab Sample ID:	SLD0427-SCV6	Injection Time:	17:54
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	253	0.0156430	0.0163986		1.1	+/-20
Aroclor 1232 [2C]	A	250.00	257	0.0180080	0.0186886		2.7	+/-20
Aroclor 1268	A	250.00	242	0.1857986	0.1802210		-3.4	+/-20
Aroclor 1268 [2C]	A	250.00	254	0.2740532	0.2802281		1.8	+/-20
Decachlorobiphenyl	A	40.000	54.3	0.8671959	1.1765650		35.7	+/-20
Tetrachlorometaxylene	A	40.000	39.7	1.1690340	1.1600880		-0.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	60.0	1.2954910	1.9443880		50.1	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.1	1.1231530	1.0686210		-4.9	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230428.b/04282320ECD7.D
Data file 2: /230428.b/230428.b/04282320ECD7.D
Method: \\target\share\chem4\ecd7.i\230428.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 28-APR-2023 17:54
Report Date: 05/01/2023 12:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	344701	5.650	-0.000	190884	39.7	38.1	4.2	Tetrachloro-m-xylene
13.863	0.002	748678	14.083	-0.001	556825	54.3	60.0	10.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	594267	6.8
Hexabromobiphenyl	745660	1272651	70.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	357253	2.5
Hexabromobiphenyl	429949	572751	33.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.238	0.002	27428	119.4	1	7.224	0.003	22212	114.8
Aroclor-1016	2	7.645	0.018	67306	110.5	2	7.864	0.020	43795	114.5
Aroclor-1016	3	7.770	0.007	44634	108.2	3	8.063	0.009	25689	109.2
Aroclor-1016	4	8.384	0.008	23868	110.9	4	8.289	0.008	18313	104.5
Total Col1Ave (4 peaks):					112.2	Total Col2Ave (4 peaks):				110.7 RPD = 1
Corrected Ave (3 peaks):					109.9	Corrected Ave (3 peaks):				109.4 RPD = 0
Aroclor-1221	1	4.684	0.002	6934	152.4	1	4.912	0.002	3754	141.5
Aroclor-1221	2	6.095	0.001	14371	157.5	2	6.267	0.002	8987	158.6
Aroclor-1221	3	6.348	0.002	41876	193.5	3	6.596	0.002	24420	188.3
Total Col1Ave (3 peaks):					167.8	Total Col2Ave (3 peaks):				162.8 RPD = 3
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.684	0.002	6934	239.7	1	4.912	0.001	3754	244.1
Aroclor-1232	2	6.095	0.001	14371	224.6	2	7.224	-0.001	22212	259.7
Aroclor-1232	3	7.645	-0.006	67306	265.3	3	7.864	0.002	43795	259.5
Aroclor-1232	4	8.564	0.001	33203	281.0	4	8.693	-0.001	13696	263.5
Total Col1Ave (4 peaks):					252.6	Total Col2Ave (4 peaks):				256.7 RPD = 2
Corrected Ave (3 peaks):					243.2	Corrected Ave (3 peaks):				254.4 RPD = 5
Aroclor-1242	1	7.238	0.001	27428	147.9	1	7.224	0.002	22212	143.1
Aroclor-1242	2	7.645	0.007	67306	132.8	2	7.864	0.006	43795	141.0
Aroclor-1242	3	8.428	0.047	16206	95.1	3	8.693	-0.475	13696	127.5
Aroclor-1242	4	8.564	0.004	33203	131.6	4	8.897	-0.706	21265	192.9
Total Col1Ave (4 peaks):					126.9	Total Col2Ave (4 peaks):				151.1 RPD = 17
Corrected Ave (3 peaks):					119.8	Corrected Ave (3 peaks):				137.2 RPD = 14
Aroclor-1248	1	8.384	0.005	23868	83.1	1	8.693	0.408	13696	73.1
Aroclor-1248	2	8.564	0.005	33203	87.2	2	8.897	0.206	21265	128.9
Aroclor-1248	3	8.968	0.004	84096	74.0	3	9.261	0.097	25621	126.6
Aroclor-1248	4	9.276	0.005	56986	95.5	4	9.433	-0.160	6057	28.1
Total Col1Ave (4 peaks):					85.0	Total Col2Ave (4 peaks):				89.2 RPD = 5
Corrected Ave (3 peaks):					81.4	Corrected Ave (3 peaks):				75.9 RPD = 7
Aroclor-1254	1	9.276	0.000	56986	88.8	1	9.433	0.004	6057	22.7
Aroclor-1254	2	---			0.0	2	9.609	0.081	13368	82.1
Aroclor-1254	3	9.660	0.012	7875	19.4	3	9.958	0.008	2781	12.9
Aroclor-1254	4	9.800	0.010	12771	15.5	4	10.117	0.007	5502	11.8
Aroclor-1254	5	10.183	0.015	9957	23.0	5	10.379	0.024	5042	9.4
Total Col1Ave (4 peaks):					36.7	Total Col2Ave (5 peaks):				27.8 RPD = 28
Corrected Ave (3 peaks):					19.3	Corrected Ave (4 peaks):				14.2 RPD = 31
Aroclor-1260	1	11.023	0.005	98362	136.9	1	11.614	-0.010	74582	183.0
Aroclor-1260	2	11.337	0.004	8979	12.3	2	11.895	0.003	33641	31.5
Aroclor-1260	3	11.714	0.004	59413	31.4	3	12.402	-0.005	335038	1375.9
Aroclor-1260	4	---			0.0	4	12.470	-0.005	380342	522.0
Aroclor-1260	5	12.219	0.003	530793	1233.3	NS	---			----
Total Col1Ave (4 peaks):					353.5	Total Col2Ave (4 peaks):				528.1 RPD = 40
Corrected Ave (3 peaks):					60.2	Corrected Ave (3 peaks):				245.5 RPD = 121*
Aroclor-1262	1	10.815	0.006	5713	11.5	1	11.176	0.003	58379	102.0
Aroclor-1262	2	12.219	0.002	530793	612.0	2	11.614	-0.010	74582	154.7
Aroclor-1262	3	12.291	-0.001	548779	575.7	3	12.402	-0.002	335038	659.6
Aroclor-1262	4	12.960	-0.003	218981	284.8	4	12.470	-0.005	380342	433.3
Total Col1Ave (4 peaks):					371.0	Total Col2Ave (4 peaks):				337.4 RPD = 9
Corrected Ave (3 peaks):					290.7	Corrected Ave (3 peaks):				230.0 RPD = 23
Aroclor-1268	1	12.219	0.000	530793	243.0	1	12.402	-0.001	335038	253.1
Aroclor-1268	2	12.291	0.000	548779	241.2	2	12.470	-0.001	380342	253.2
Aroclor-1268	3	12.669	0.000	449251	237.4	3	12.859	0.001	314079	253.1
Aroclor-1268	4	13.461	-0.000	1338158	244.6	4	13.676	-0.001	976802	258.3
Total Col1Ave (4 peaks):					241.6	Total Col2Ave (4 peaks):				254.4 RPD = 5

Corrected Ave (3 peaks): 240.5 Corrected Ave (3 peaks): 253.1 RPD = 5

Total PCB Area Col1 (5.866 - 13.762) = 4336494 Col1 Total PCB = 0.6 ppm*

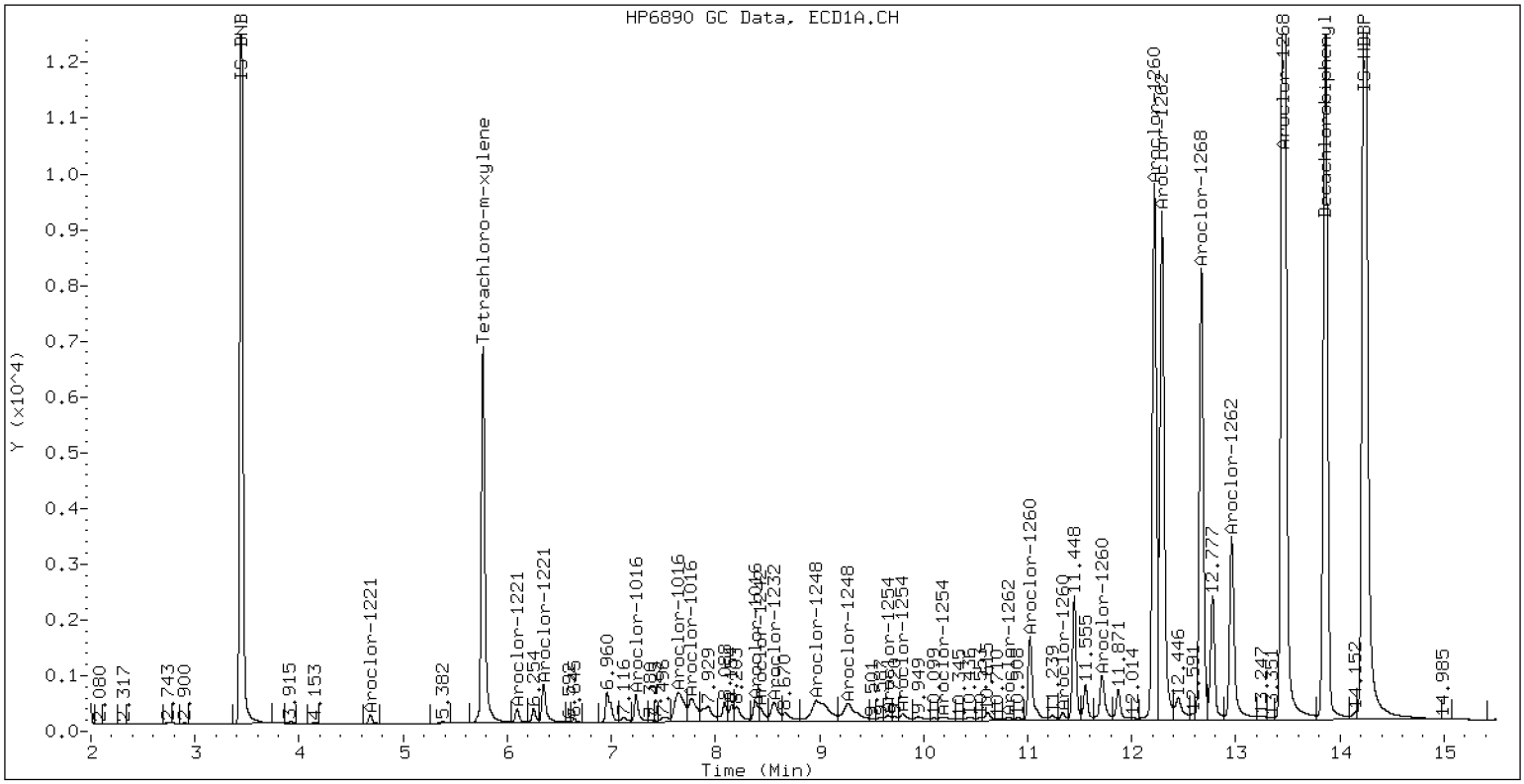
Total PCB Area Col2 (5.751 - 13.984) = 2807426 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

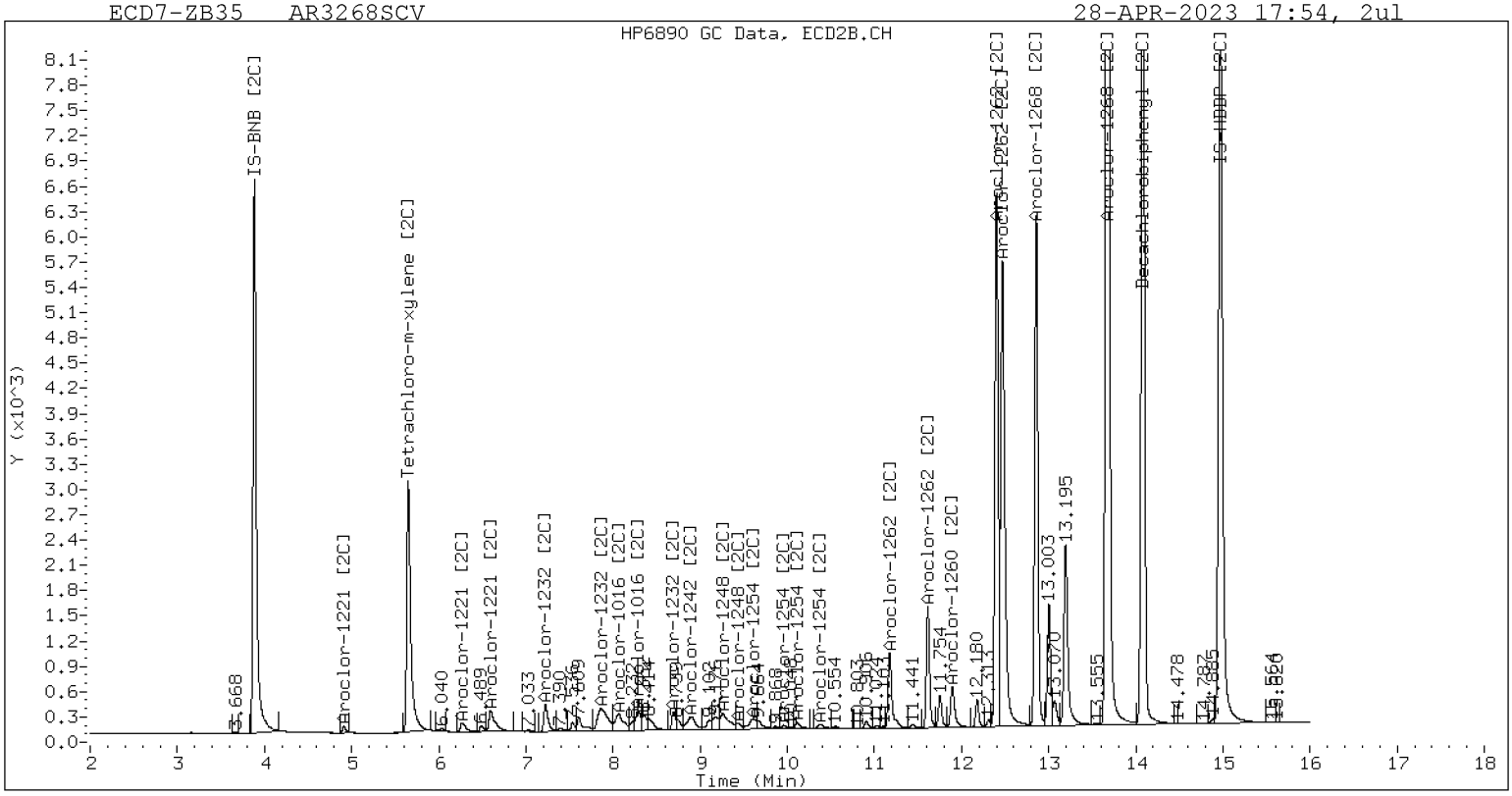
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 28-APR-2023 17:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 28-APR-2023 17:54, 2ul

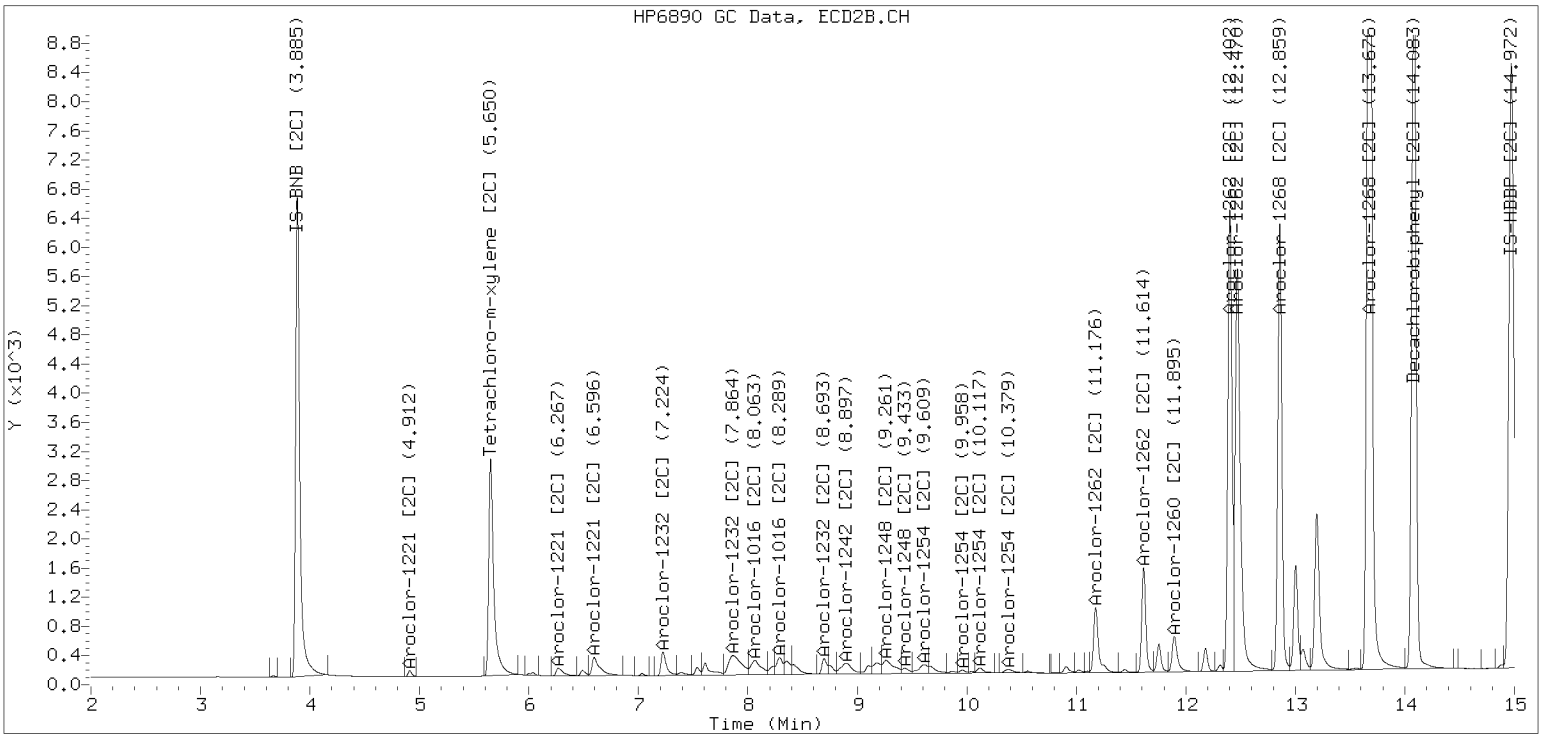


ZB-35 Manual Integration: YES

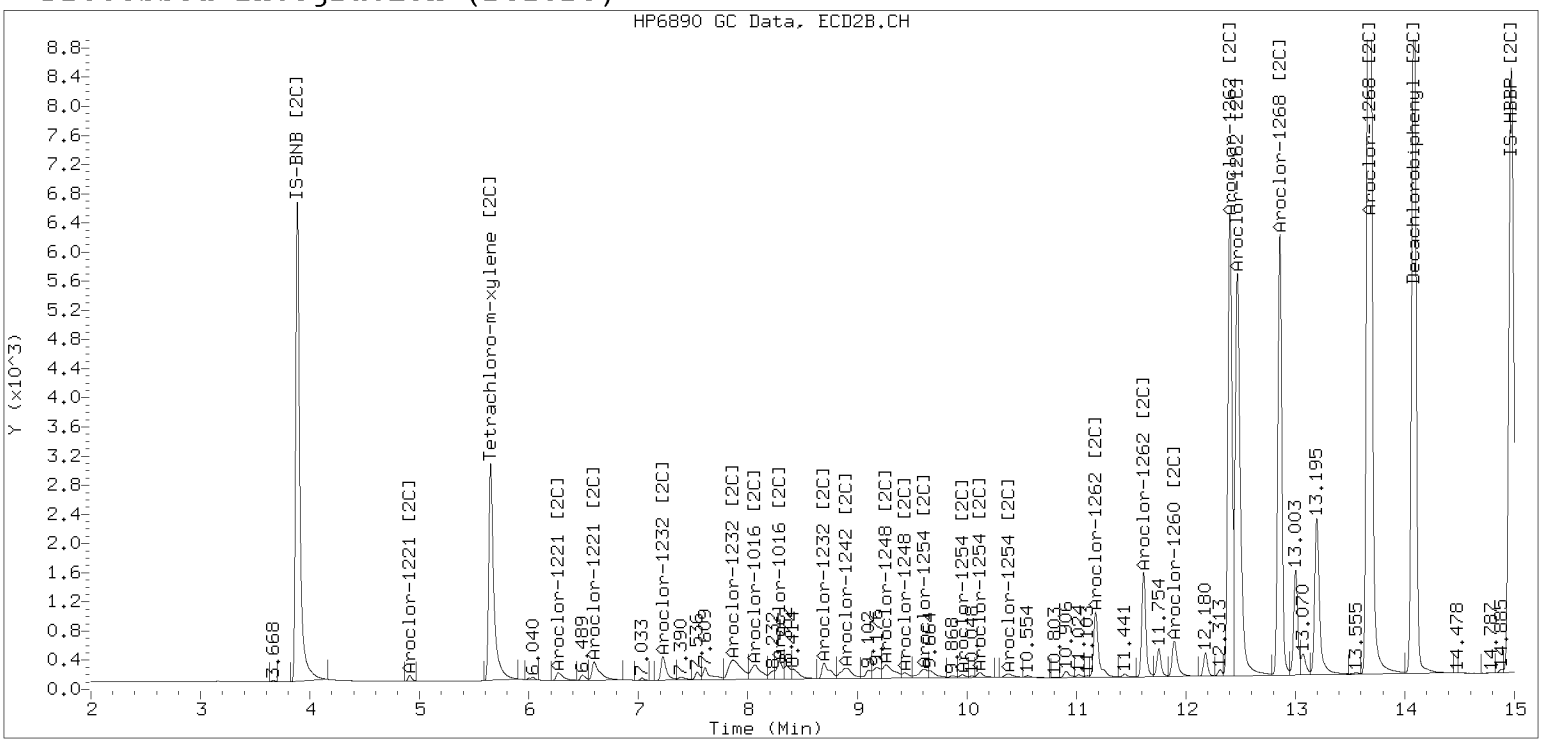
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230428.b/230428.b/04282320ECD7.D Injection Date: 28-APR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022314ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/02/23
Lab Sample ID:	SLE0029-CCV1	Injection Time:	15:49
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	232	0.0808031	0.0825809		-7.1	+/-20
Aroclor-1248 (1)	A	250.00	166		0.0407748			
Aroclor-1248 (2)	A	250.00	256		0.0524824			
Aroclor-1248 (3)	A	250.00	255		0.1560695			
Aroclor-1248 (4)	A	250.00	252		0.0809969			
Aroclor 1248 [2C]	A	250.00	263	0.0431424	0.0454425		5.3	+/-20
Aroclor-1248 (1) [2C]	A	250.00	265		0.0445118			
Aroclor-1248 (2) [2C]	A	250.00	263		0.0388649			
Aroclor-1248 (3) [2C]	A	250.00	255		0.0462090			
Aroclor-1248 (4) [2C]	A	250.00	270		0.0521845			
Decachlorobiphenyl	A	40.000	36.3	0.8671959	0.7869299		-9.3	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1690340	1.1412640		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.2	1.2954910	1.2034880		-7.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.8	1.1231530	1.0888680		-3.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022314ECD7.D
Data file 2: /230502.b/230502.b/05022314ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 02-MAY-2023 15:49
Report Date: 05/02/2023 16:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.001	319814	5.650	0.001	180764	39.0	38.8	0.7	Tetrachloro-m-xylene
13.862	0.002	320779	14.083	0.001	284413	36.3	37.2	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	560456	0.8
Hexabromobiphenyl	745660	815267	9.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	332022	-4.7
Hexabromobiphenyl	429949	472648	9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.378	-0.001	71414	166.6	1	8.282	0.000	46184	265.1
Aroclor-1248	2	8.556	-0.003	91919	256.0	2	8.688	0.000	40325	263.0
Aroclor-1248	3	8.960	-0.004	273344	255.1	3	9.156	0.000	47945	254.9
Aroclor-1248	4	9.268	-0.003	141860	252.1	4	9.583	0.000	54145	269.9
Total Col1Ave (4 peaks):					232.4	Total Col2Ave (4 peaks):				263.2 RPD = 12
Corrected Ave (3 peaks):					224.6	Corrected Ave (3 peaks):				261.0 RPD = 15
CalAmt %D:					-7.0	CalAmt %D:				5.3

Total PCB Area Col1 (5.865 - 13.760) = 1467012 Col1 Total PCB = 0.2 ppm*

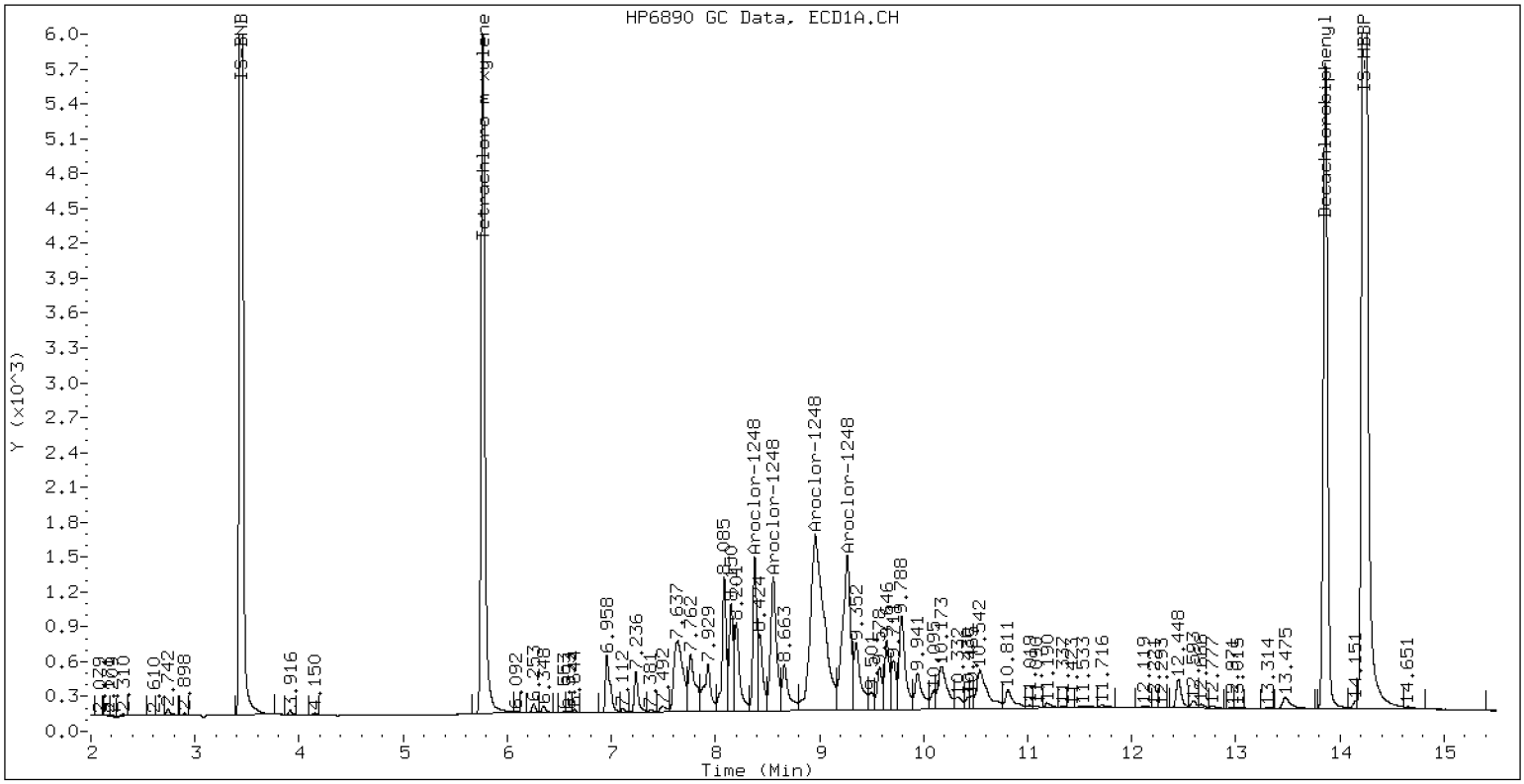
Total PCB Area Col2 (5.749 - 13.982) = 804987 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

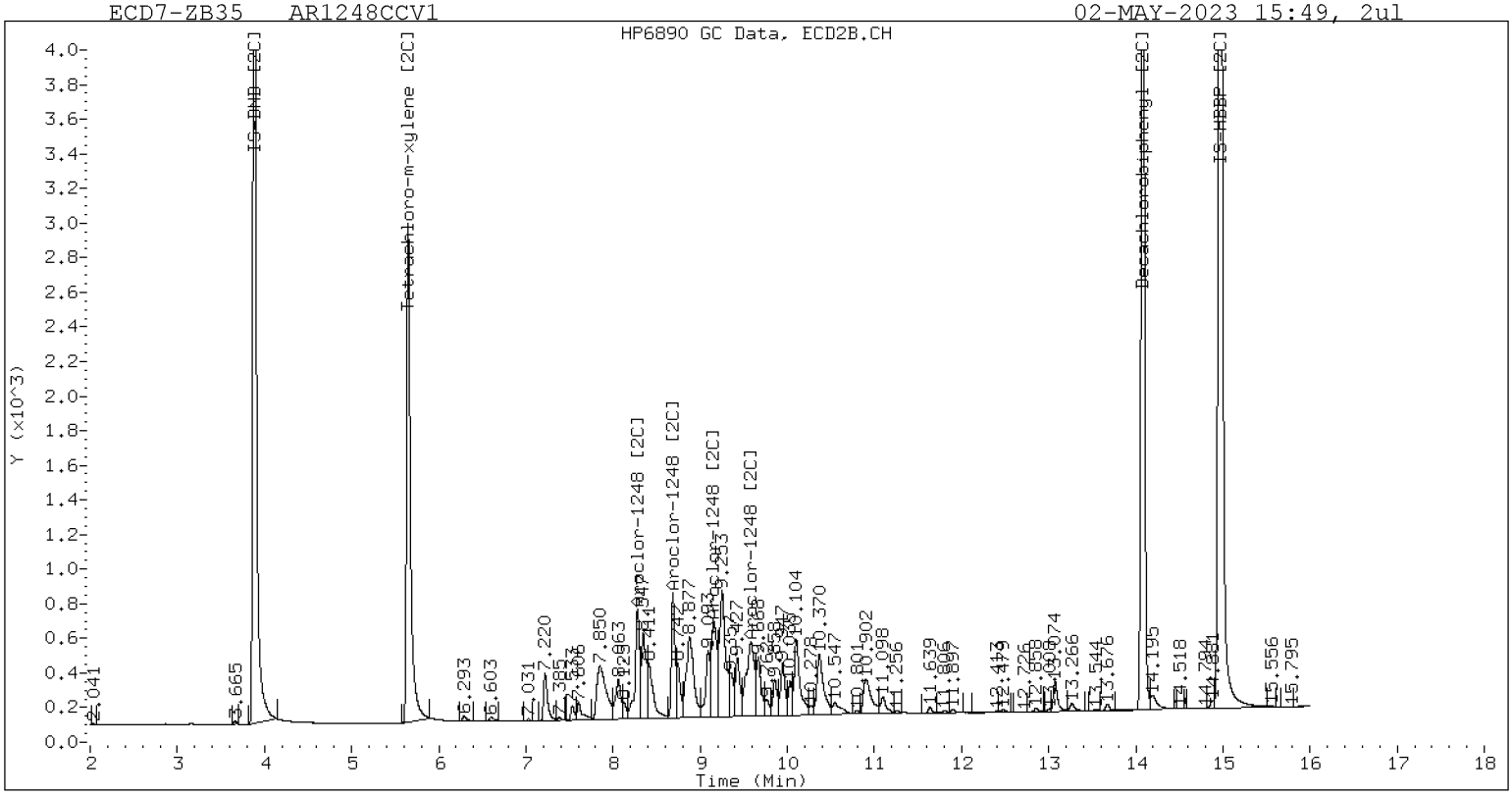
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 02-MAY-2023 15:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 02-MAY-2023 15:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022315ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/02/23
Lab Sample ID:	SLE0029-CCV2	Injection Time:	16:10
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	258	0.0493584	0.0519462		3.2	+/-20
Aroclor-1016 (1)	A	250.00	250	0.0309351	0.0297961		0.0	
Aroclor-1016 (2)	A	250.00	291	0.0820179	0.0956215		16.4	
Aroclor-1016 (3)	A	250.00	235	0.0555075	0.0528520		-6.0	
Aroclor-1016 (4)	A	250.00	256	0.0289731	0.0295154		2.4	
Aroclor 1016 [2C]	A	250.00	283	0.0554830	0.0642518		13.2	+/-20
Aroclor-1016 (1) [2C]	A	250.00	307	0.0433246	0.0532682		22.8	
Aroclor-1016 (2) [2C]	A	250.00	330	0.0856363	0.1130258		32.0	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0537117	0.0507748		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	254	0.0392594	0.0399385		1.6	
Aroclor 1260	A	250.00	245	0.0591826	0.0587948		-1.8	+/-20
Aroclor-1260 (1)	A	250.00	263	0.0451684	0.0474543		5.2	
Aroclor-1260 (2)	A	250.00	253	0.0458209	0.0463971		1.2	
Aroclor-1260 (3)	A	250.00	263	0.1189069	0.1249337		5.2	
Aroclor-1260 (4)	A	250.00	209	0.0589630	0.0493584		-16.4	
Aroclor-1260 (5)	A	250.00	239	0.0270539	0.0258304		-4.4	
Aroclor 1260 [2C]	A	250.00	230	0.0855158	0.0788438		-7.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	224	0.0569154	0.0511155		-10.4	
Aroclor-1260 (2) [2C]	A	250.00	231	0.1493590	0.1380678		-7.6	
Aroclor-1260 (3) [2C]	A	250.00	235	0.0340126	0.0319904		-6.0	
Aroclor-1260 (4) [2C]	A	250.00	231	0.1017762	0.0942015		-7.6	
Decachlorobiphenyl	A	40.000	38.4	0.8671959	0.8336346		-4.0	+/-20
Tetrachlorometaxylene	A	40.000	40.6	1.1690340	1.1864030		1.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.6	1.2954910	1.2503520		-3.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	45.8	1.1231530	1.2867590		14.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022315ECD7.D
Data file 2: /230502.b/230502.b/05022315ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 02-MAY-2023 16:10
Report Date: 05/02/2023 16:36
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.001	334804	5.649	0.000	182393	40.6	45.8	12.1	Tetrachloro-m-xylene
13.860	-0.000	380242	14.082	0.000	298436	38.5	38.6	0.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	564402	1.5
Hexabromobiphenyl	745660	912251	22.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	283492	-18.7
Hexabromobiphenyl	429949	477363	11.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	0.000	52553	250.2	1	7.221	0.000	47191	307.4
Aroclor-1016	2	7.632	0.003	168653	291.5	2	7.848	0.000	100131	330.0
Aroclor-1016	3	7.765	0.001	93218	235.4	3	8.054	0.000	44982	240.9
Aroclor-1016	4	8.378	0.001	52058	255.6	4	8.282	0.000	35382	254.3
Total Col1Ave (4 peaks):					258.2	Total Col2Ave (4 peaks):				283.1 RPD = 9
Corrected Ave (3 peaks):					247.1	Corrected Ave (3 peaks):				267.5 RPD = 8
CalAmt %D:					3.3	CalAmt %D:				13.3
Aroclor-1260	1	11.017	0.001	135282	262.7	1	11.623	0.000	76252	224.5
Aroclor-1260	2	11.334	0.001	132268	253.1	2	11.890	0.000	205964	231.1
Aroclor-1260	3	11.710	0.001	356159	262.7	3	12.405	0.000	47722	235.1
Aroclor-1260	4	12.117	-0.001	140710	209.3	4	12.474	0.000	140526	231.4
Aroclor-1260	5	12.216	0.001	73637	238.7	NS	---			----
Total Col1Ave (5 peaks):					245.3	Total Col2Ave (4 peaks):				230.5 RPD = 6
Corrected Ave (4 peaks):					240.9	Corrected Ave (3 peaks):				229.0 RPD = 5
CalAmt %D:					-1.9	CalAmt %D:				-7.8

Total PCB Area Col1 (5.865 - 13.760) = 3614926 Col1 Total PCB = 0.5 ppm*

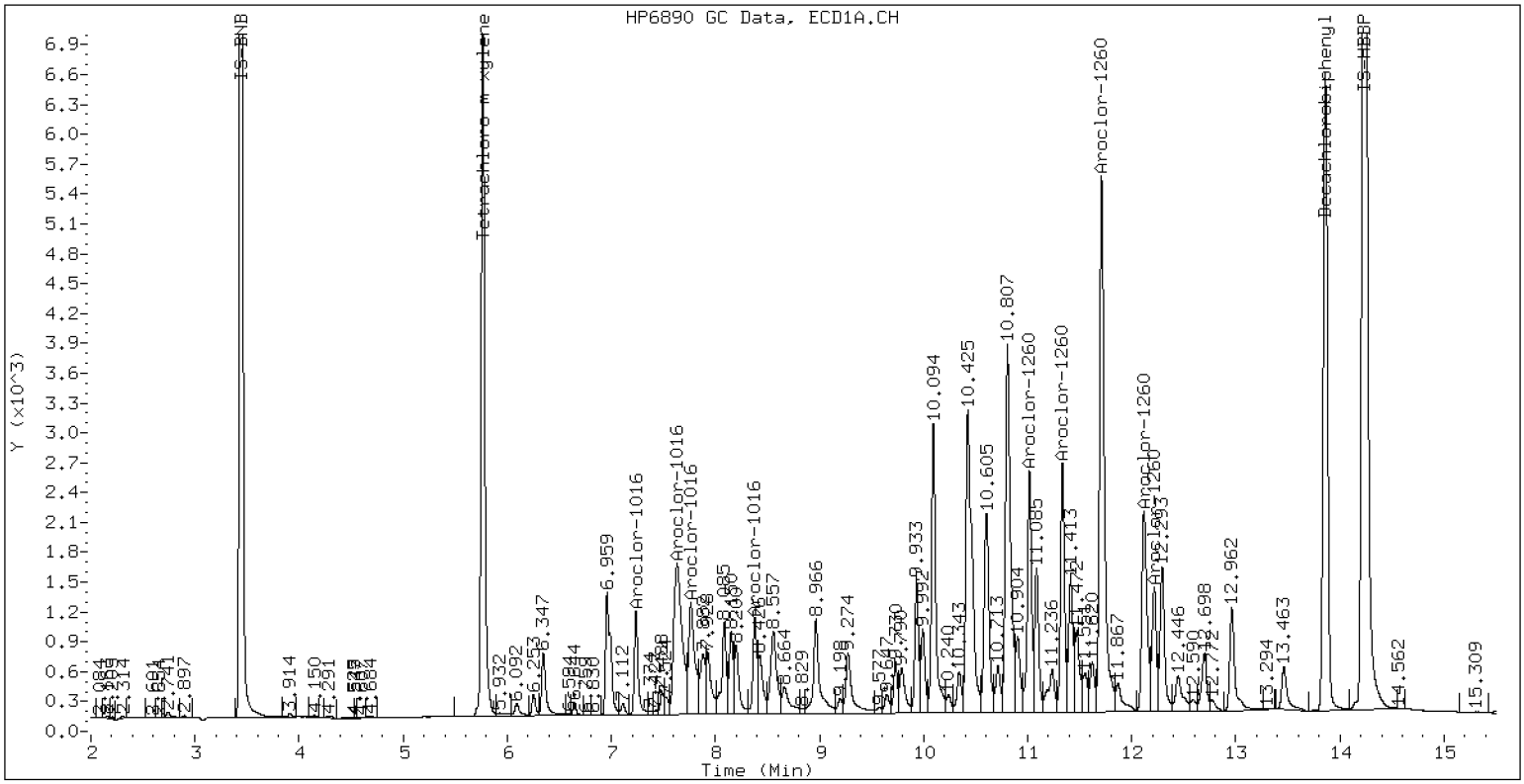
Total PCB Area Col2 (5.749 - 13.982) = 1914988 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

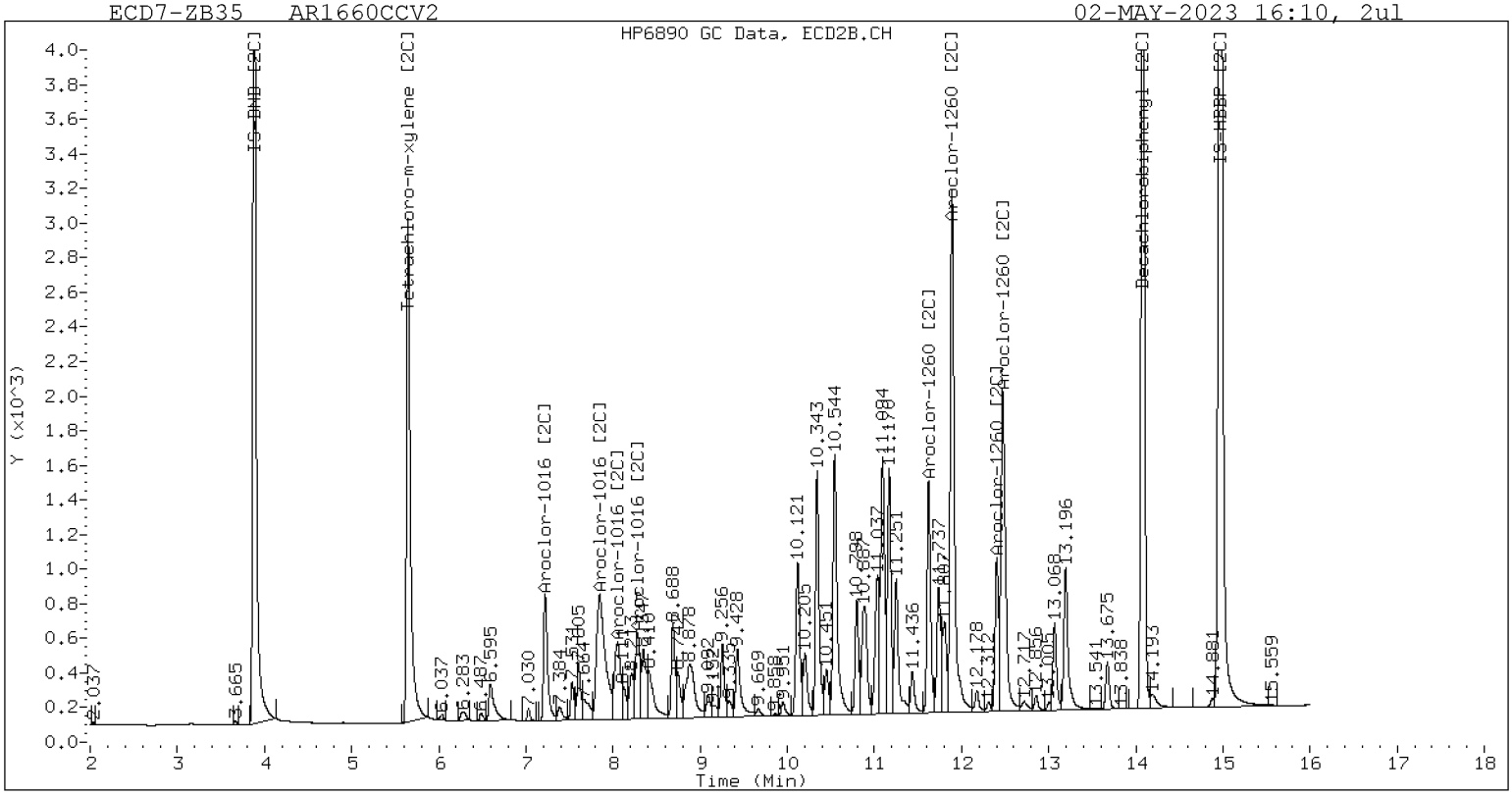
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 02-MAY-2023 16:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 02-MAY-2023 16:10, 2ul

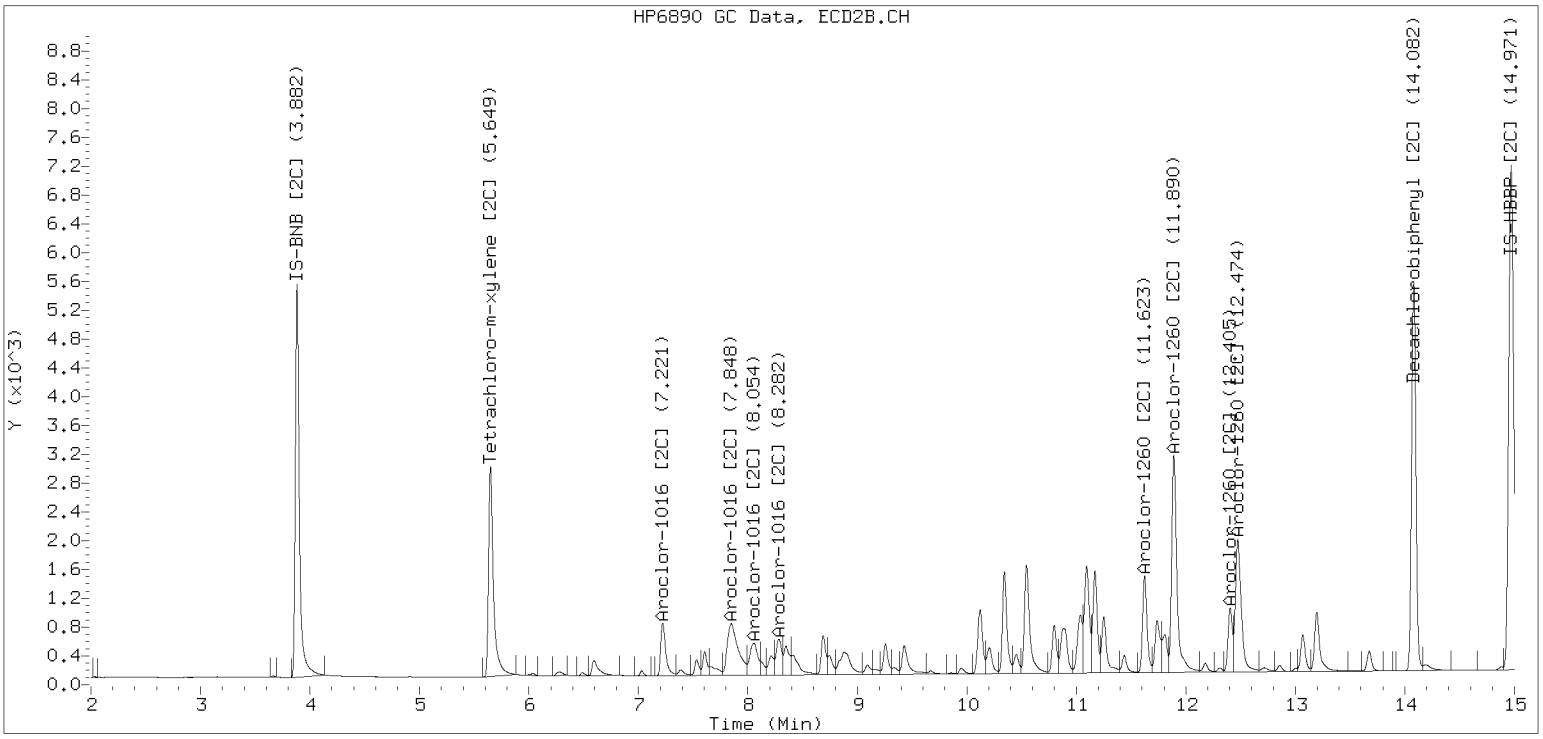


ZB-35 Manual Integration: YES

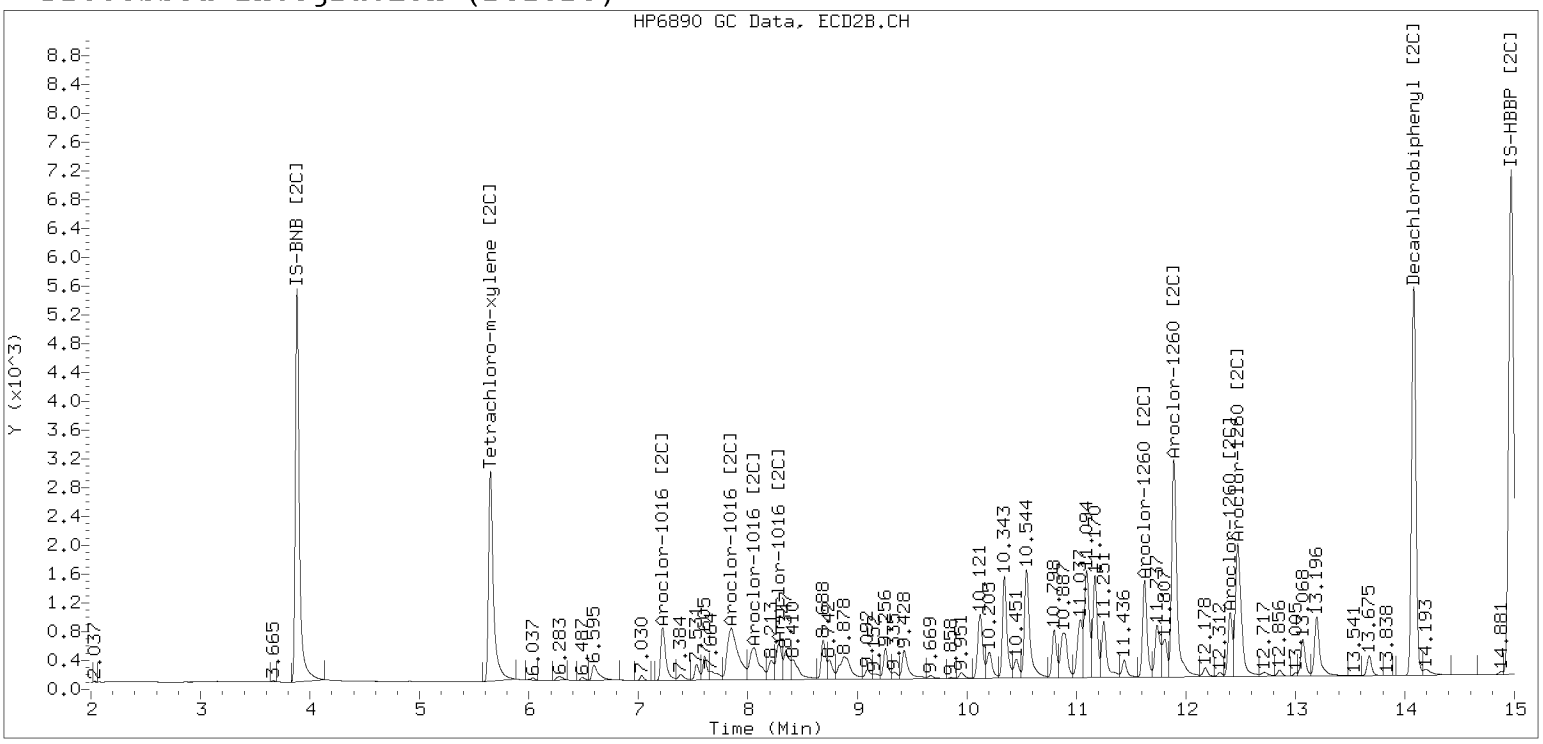
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230502.b/230502.b/05022315ECD7.D Injection Date: 02-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022330ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/02/23
Lab Sample ID:	SLE0029-CCV3	Injection Time:	21:23
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1242	A	250.00	257	0.0375243	0.0376183		2.8	+/-20	
Aroclor-1242 (1)	A	250.00	251		0.0250613				
Aroclor-1242 (2)	A	250.00	272		0.0741401				
Aroclor-1242 (3)	A	250.00	246		0.0160413				
Aroclor-1242 (4)	A	250.00	259		0.0352306				
Aroclor 1242 [2C]	A	250.00	273	0.0382553	0.0420062		9.3	+/-20	
Aroclor-1242 (1) [2C]	A	250.00	267		0.0370745				
Aroclor-1242 (2) [2C]	A	250.00	279		0.0776484				
Aroclor-1242 (3) [2C]	A	250.00	267		0.0256503				
Aroclor-1242 (4) [2C]	A	250.00	280		0.0276516				
Decachlorobiphenyl	A	40.000	36.2	0.8671959	0.7859002		-9.5	+/-20	
Tetrachlorometaxylene	A	40.000	47.8	1.1690340	1.3960730		19.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	38.1	1.2954910	1.2333160		-4.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	48.4	1.1231530	1.3579020		21.0	+/-20	*

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022330ECD7.D
Data file 2: /230502.b/230502.b/05022330ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 02-MAY-2023 21:23
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	396718	5.648	-0.000	224944	47.8	48.4	1.2	Tetrachloro-m-xylene
13.861	-0.001	287120	14.082	-0.000	248422	36.3	38.1	4.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	568334	2.2
Hexabromobiphenyl	745660	730678	-2.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	331311	-4.9
Hexabromobiphenyl	429949	402852	-6.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1242	1	7.235	0.000	44510	251.0	1	7.222	0.000	38385	266.7
Aroclor-1242	2	7.632	0.000	131676	271.6	2	7.847	0.000	80393	279.2
Aroclor-1242	3	8.425	0.000	28490	245.9	3	9.158	0.000	26557	266.7
Aroclor-1242	4	8.555	0.000	62571	259.4	4	9.590	0.000	28629	280.0
Total Col1Ave (4 peaks):					257.0	Total Col2Ave (4 peaks):				273.1 RPD = 6
Corrected Ave (3 peaks):					252.1	Corrected Ave (3 peaks):				270.8 RPD = 7
CalAmt %D:					2.8	CalAmt %D:				9.3

Total PCB Area Col1 (5.866 - 13.762) = 1122339 Col1 Total PCB = 0.2 ppm*

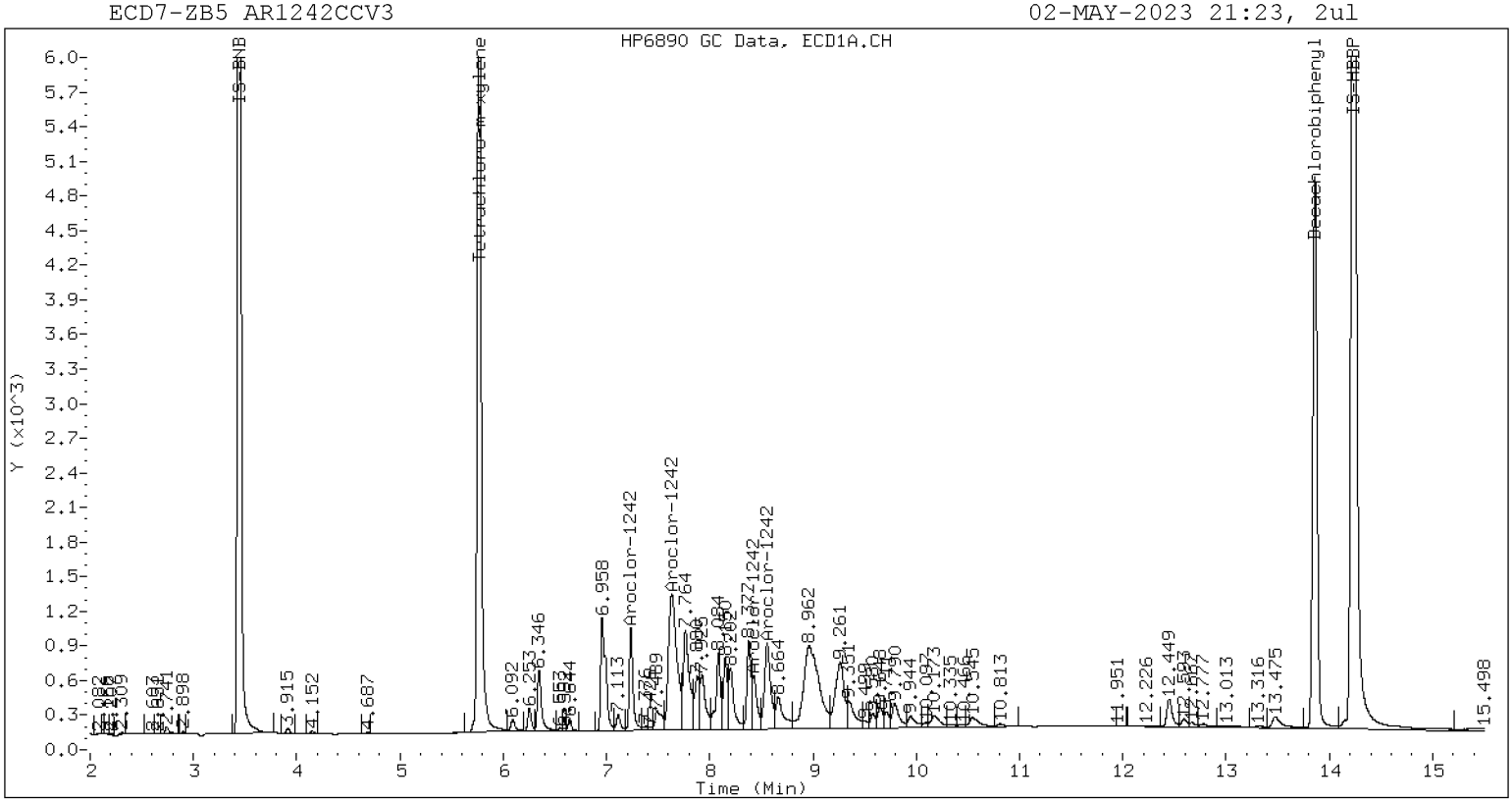
Total PCB Area Col2 (5.749 - 13.983) = 607990 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

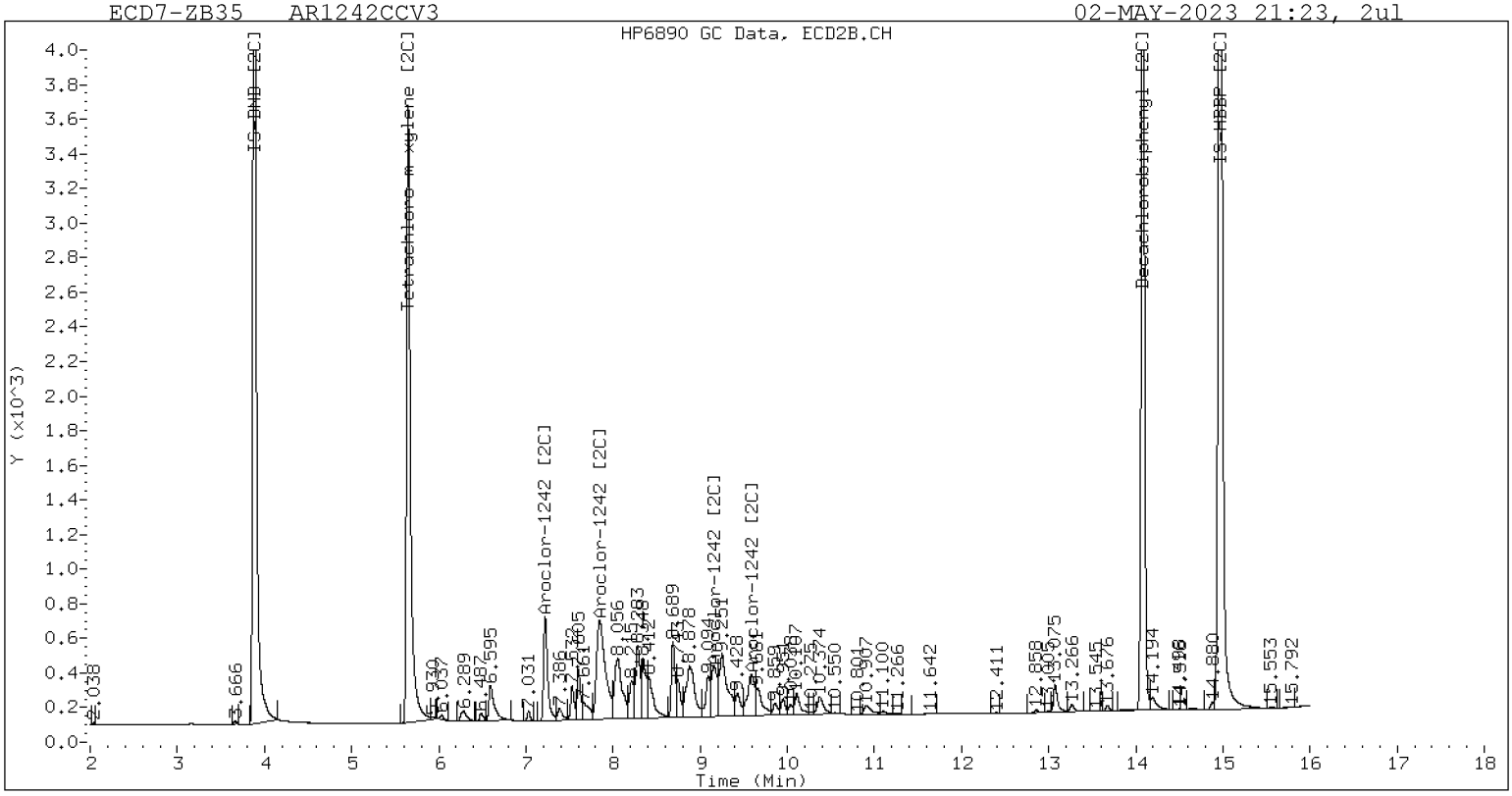
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 02-MAY-2023 21:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 02-MAY-2023 21:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022331ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/02/23
Lab Sample ID:	SLE0029-CCV4	Injection Time:	21:44
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	260	0.0493584	0.0522782		3.9	+/-20
Aroclor-1016 (1)	A	250.00	248	0.0309351	0.0295061		-0.8	
Aroclor-1016 (2)	A	250.00	293	0.0820179	0.0962142		17.2	
Aroclor-1016 (3)	A	250.00	238	0.0555075	0.0533674		-4.8	
Aroclor-1016 (4)	A	250.00	260	0.0289731	0.0300252		4.0	
Aroclor 1016 [2C]	A	250.00	281	0.0554830	0.0641725		12.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	307	0.0433246	0.0532346		22.8	
Aroclor-1016 (2) [2C]	A	250.00	335	0.0856363	0.1147545		34.0	
Aroclor-1016 (3) [2C]	A	250.00	237	0.0537117	0.0499787		-5.2	
Aroclor-1016 (4) [2C]	A	250.00	246	0.0392594	0.0387222		-1.6	
Aroclor 1260	A	250.00	257	0.0591826	0.0615507		2.9	+/-20
Aroclor-1260 (1)	A	250.00	265	0.0451684	0.0479619		6.0	
Aroclor-1260 (2)	A	250.00	259	0.0458209	0.0474896		3.6	
Aroclor-1260 (3)	A	250.00	274	0.1189069	0.1303529		9.6	
Aroclor-1260 (4)	A	250.00	228	0.0589630	0.0538145		-8.8	
Aroclor-1260 (5)	A	250.00	260	0.0270539	0.0281344		4.0	
Aroclor 1260 [2C]	A	250.00	249	0.0855158	0.0848913		-0.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	247	0.0569154	0.0563090		-1.2	
Aroclor-1260 (2) [2C]	A	250.00	251	0.1493590	0.1500763		0.4	
Aroclor-1260 (3) [2C]	A	250.00	254	0.0340126	0.0346148		1.6	
Aroclor-1260 (4) [2C]	A	250.00	242	0.1017762	0.0985652		-3.2	
Decachlorobiphenyl	A	40.000	40.0	0.8671959	0.8681316		0.0	+/-20
Tetrachlorometaxylene	A	40.000	40.4	1.1690340	1.1814060		1.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.5	1.2954910	1.3120630		1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	46.1	1.1231530	1.2942810		15.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022331ECD7.D
Data file 2: /230502.b/230502.b/05022331ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 02-MAY-2023 21:44
Report Date: 05/03/2023 09:34
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.767	0.001	342238	5.649	0.000	188457	40.4	46.1	13.1	Tetrachloro-m-xylene
13.862	0.000	354673	14.081	-0.001	281429	40.0	40.5	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	579374	4.2
Hexabromobiphenyl	745660	817095	9.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	291215	-16.4
Hexabromobiphenyl	429949	428987	-0.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.236	0.000	53422	247.8	1	7.222	-0.000	48446	307.2
Aroclor-1016	2	7.630	-0.002	174200	293.3	2	7.843	-0.005	104432	335.0
Aroclor-1016	3	7.764	-0.001	96624	237.7	3	8.043	-0.015	45483	237.1
Aroclor-1016	4	8.377	-0.002	54362	260.0	4	8.280	-0.003	35239	246.6
Total Col1Ave (4 peaks):					259.7	Total Col2Ave (4 peaks):				281.5 RPD = 8
Corrected Ave (3 peaks):					248.5	Corrected Ave (3 peaks):				263.6 RPD = 6
CalAmt %D:					3.9	CalAmt %D:				12.6
Aroclor-1260	1	11.017	0.001	122467	265.5	1	11.623	-0.001	75487	247.3
Aroclor-1260	2	11.334	0.000	121261	259.1	2	11.890	-0.000	201190	251.2
Aroclor-1260	3	11.710	-0.001	332846	274.1	3	12.405	-0.001	46404	254.4
Aroclor-1260	4	12.115	-0.003	137411	228.2	4	12.473	-0.001	132135	242.1
Aroclor-1260	5	12.215	-0.001	71839	260.0	NS	---			----
Total Col1Ave (5 peaks):					257.4	Total Col2Ave (4 peaks):				248.8 RPD = 3
Corrected Ave (4 peaks):					253.2	Corrected Ave (3 peaks):				246.9 RPD = 3
CalAmt %D:					2.9	CalAmt %D:				-0.5

Total PCB Area Col1 (5.866 - 13.762) = 3485750 Col1 Total PCB = 0.5 ppm*

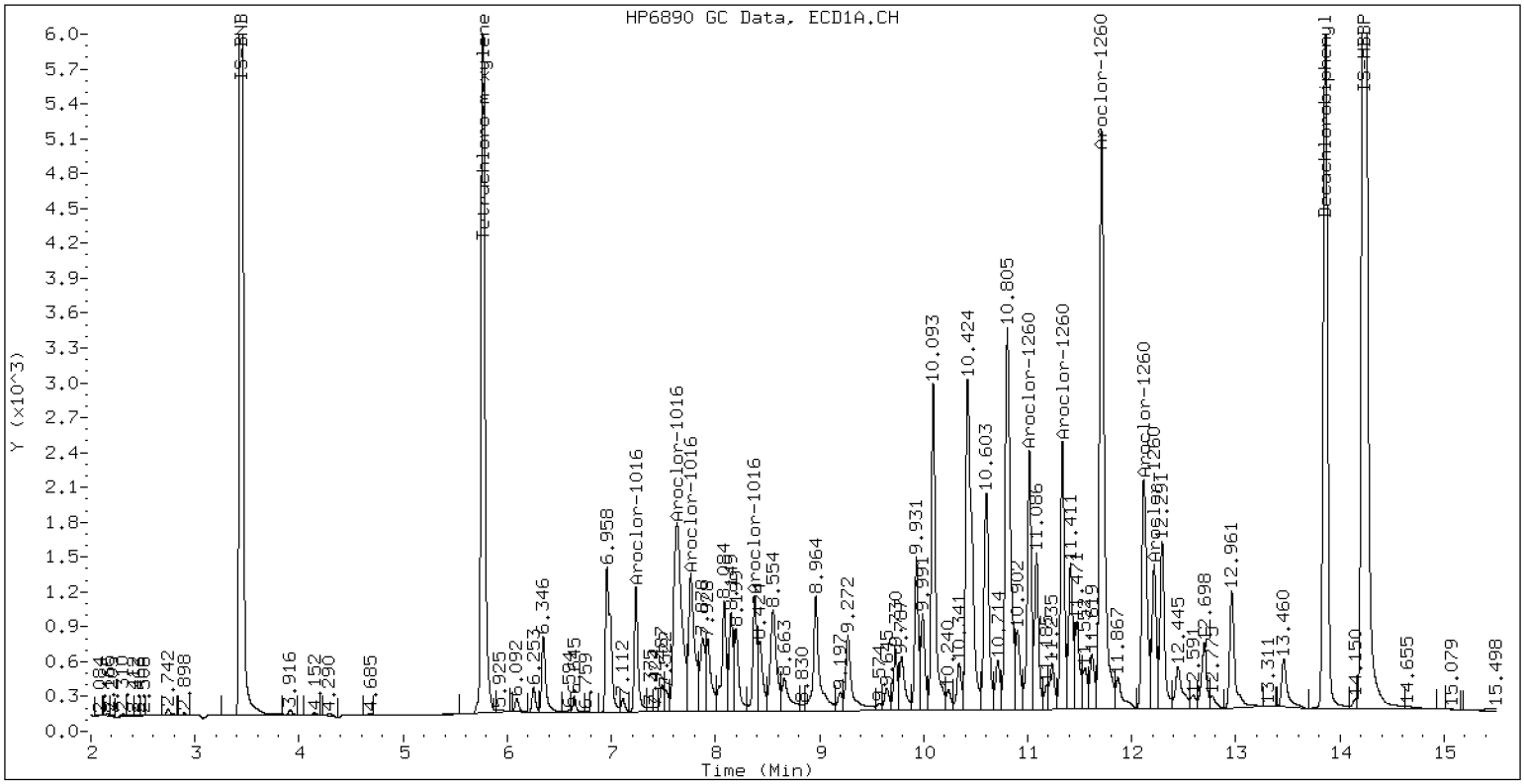
Total PCB Area Col2 (5.749 - 13.983) = 1908113 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

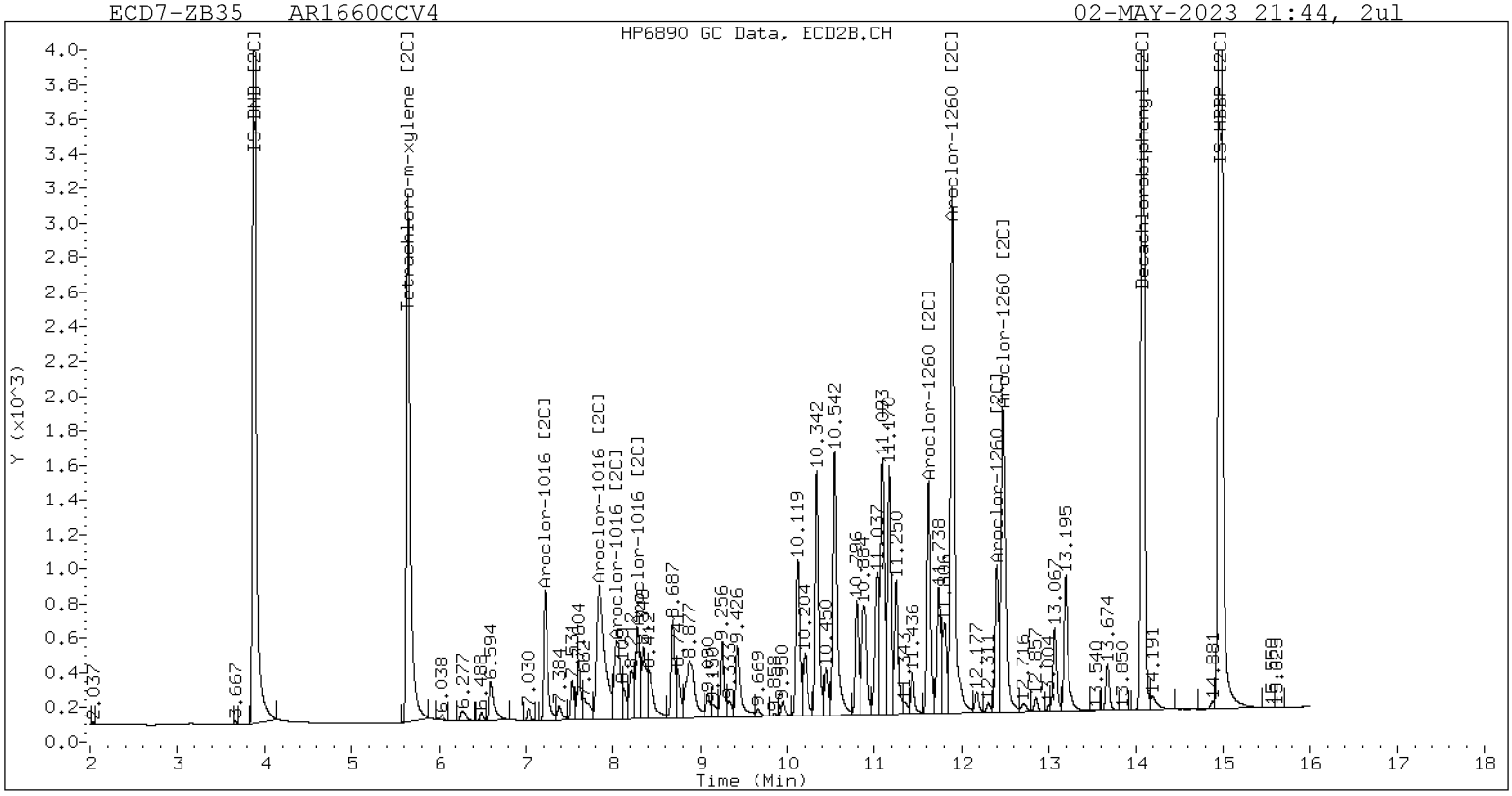
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 02-MAY-2023 21:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 02-MAY-2023 21:44, 2ul

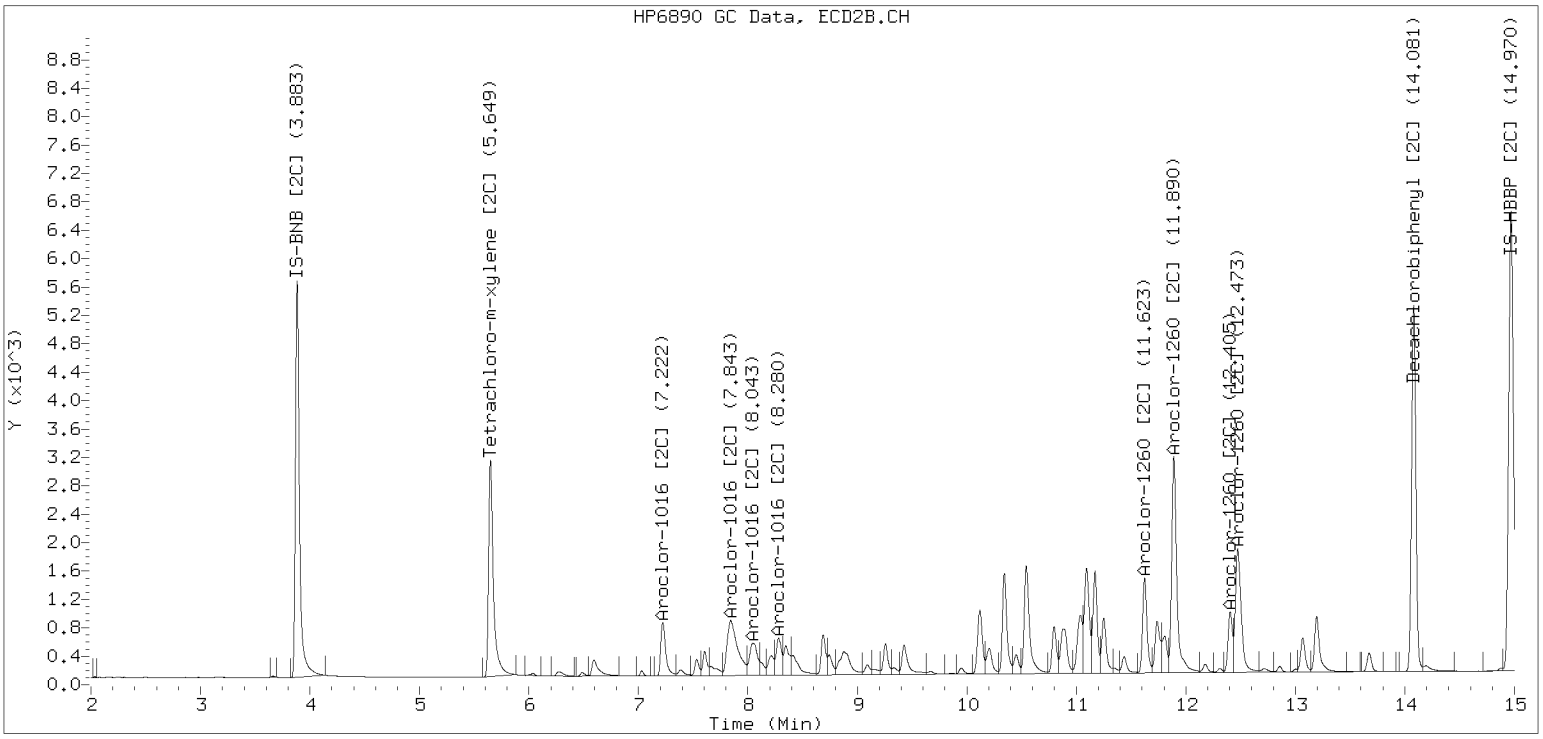


ZB-35 Manual Integration: YES

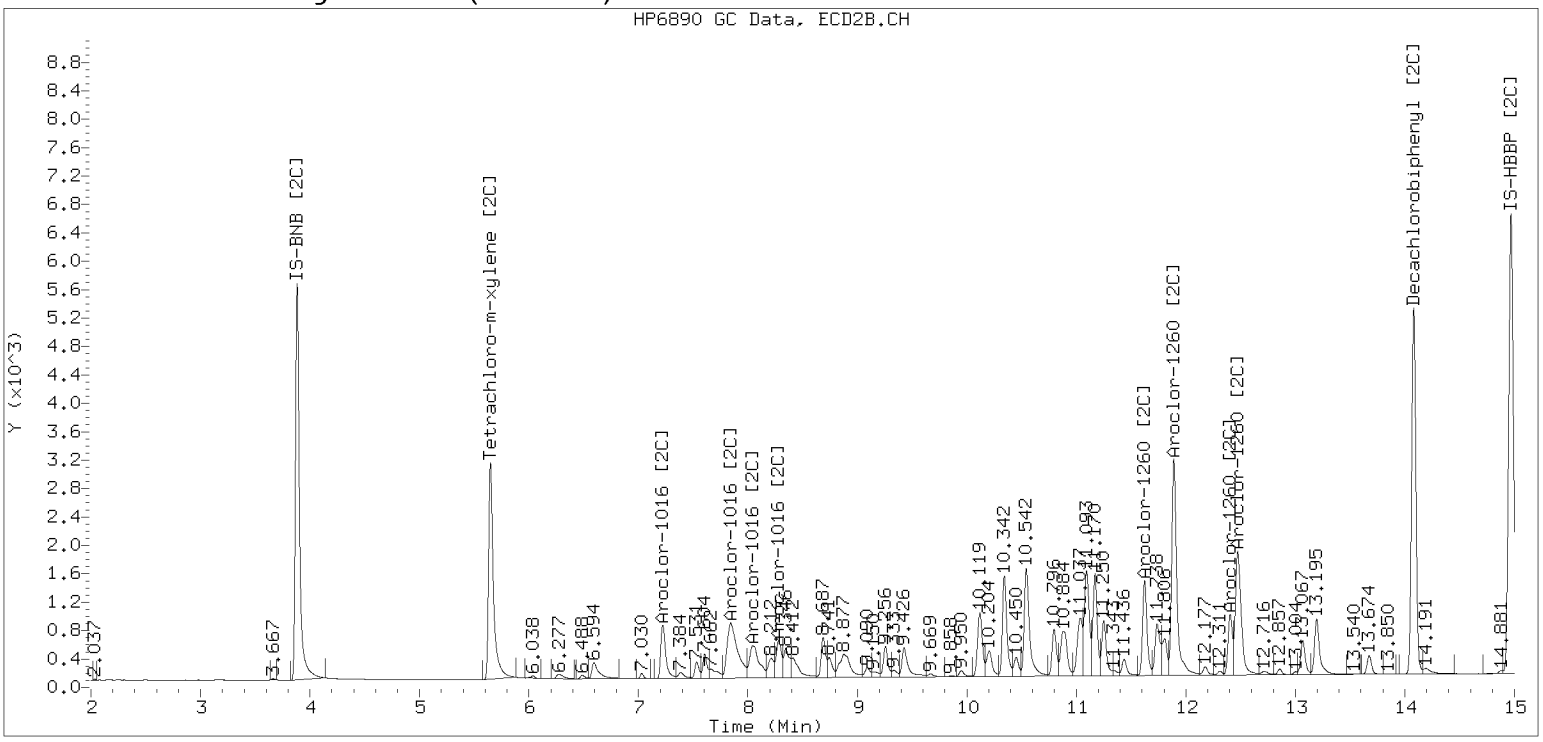
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230502.b/230502.b/05022331ECD7.D Injection Date: 02-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022351ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/03/23
Lab Sample ID:	SLE0029-CCV5	Injection Time:	04:41
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	208	0.0702659	0.0623428		-16.8	+/-20
Aroclor-1254 (1)	A	250.00	205		0.0709024			
Aroclor-1254 (2)	A	250.00	207		0.0338912			
Aroclor-1254 (3)	A	250.00	216		0.0473197			
Aroclor-1254 (4)	A	250.00	211		0.0936261			
Aroclor-1254 (5)	A	250.00	201		0.0659748			
Aroclor 1254 [2C]	A	250.00	244	0.0739953	0.0716548		-2.4	+/-20
Aroclor-1254 (1) [2C]	A	250.00	251		0.0600651			
Aroclor-1254 (2) [2C]	A	250.00	255		0.0372022			
Aroclor-1254 (3) [2C]	A	250.00	238		0.0461614			
Aroclor-1254 (4) [2C]	A	250.00	236		0.0989080			
Aroclor-1254 (5) [2C]	A	250.00	240		0.1159374			
Decachlorobiphenyl	A	40.000	36.3	0.8671959	0.7879929		-9.3	+/-20
Tetrachlorometaxylene	A	40.000	38.7	1.1690340	1.1305690		-3.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	36.7	1.2954910	1.1886820		-8.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.1231530	1.1274930		0.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022351ECD7.D
Data file 2: /230502.b/230502.b/05022351ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 03-MAY-2023 04:41
Report Date: 05/03/2023 09:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.001	327930	5.650	0.001	184282	38.7	40.2	3.7	Tetrachloro-m-xylene
13.862	0.001	234801	14.084	0.001	231727	36.3	36.7	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	580115	4.3
Hexabromobiphenyl	745660	595947	-20.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	326888	-6.2
Hexabromobiphenyl	429949	389889	-9.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.272	0.000	128536	205.1	1	9.428	0.000	61358	251.1
Aroclor-1254	2	9.356	0.000	61440	206.9	2	9.526	0.000	38003	255.1
Aroclor-1254	3	9.646	0.000	85784	216.5	3	9.948	0.000	47155	238.4
Aroclor-1254	4	9.786	0.000	169731	210.9	4	10.106	0.000	101037	235.9
Aroclor-1254	5	10.161	0.000	119603	201.2	5	10.353	0.000	118433	240.6

Total Col1Ave (5 peaks): 208.1 Total Col2Ave (5 peaks): 244.2 RPD = 16

Corrected Ave (4 peaks): 206.0 Corrected Ave (4 peaks): 241.5 RPD = 16

CalAmt %D: -16.8 CalAmt %D: -2.3

Total PCB Area Col1 (5.866 - 13.762) = 1740905 Col1 Total PCB = 0.3 ppm*

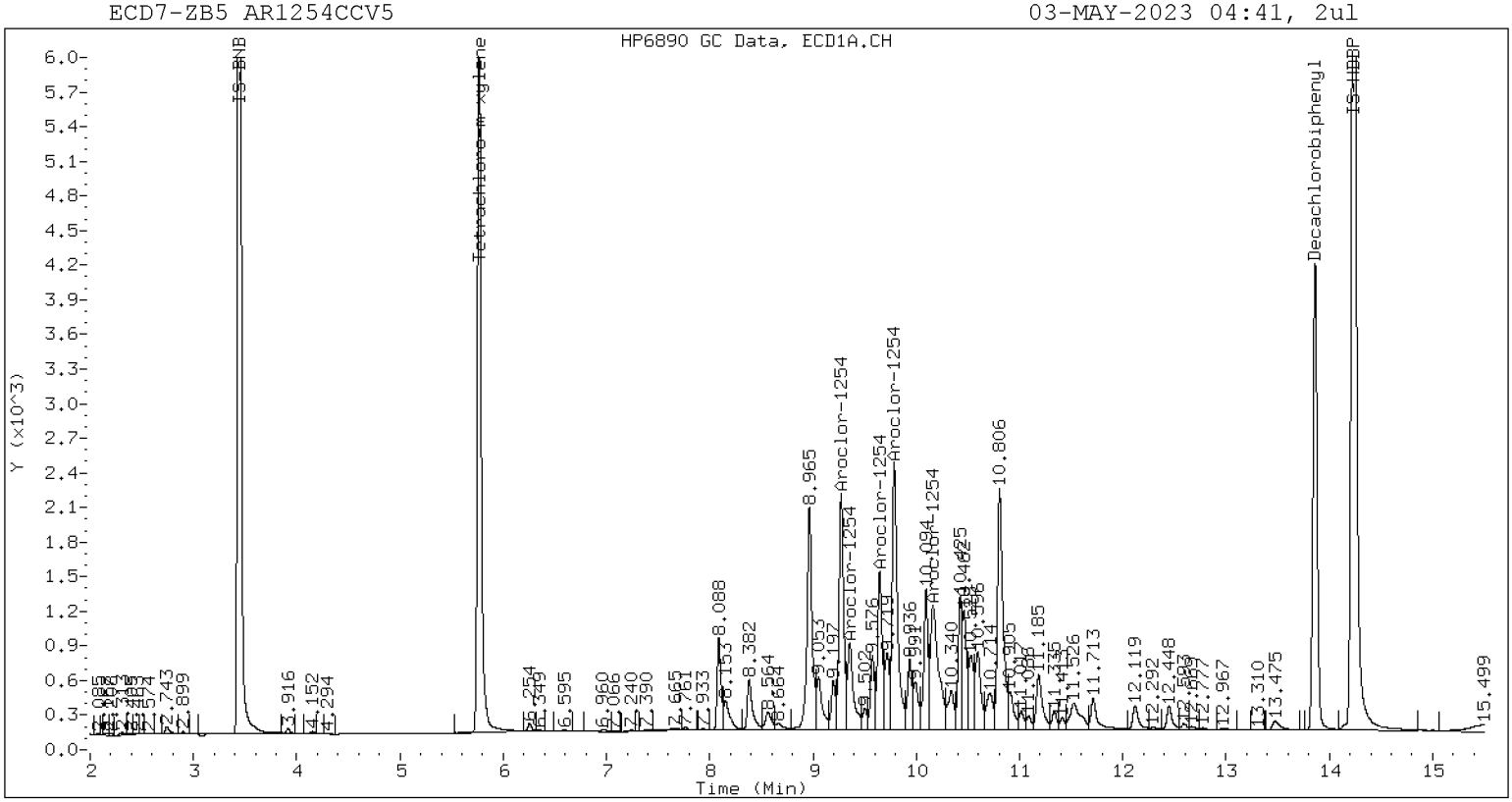
Total PCB Area Col2 (5.749 - 13.983) = 1003774 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

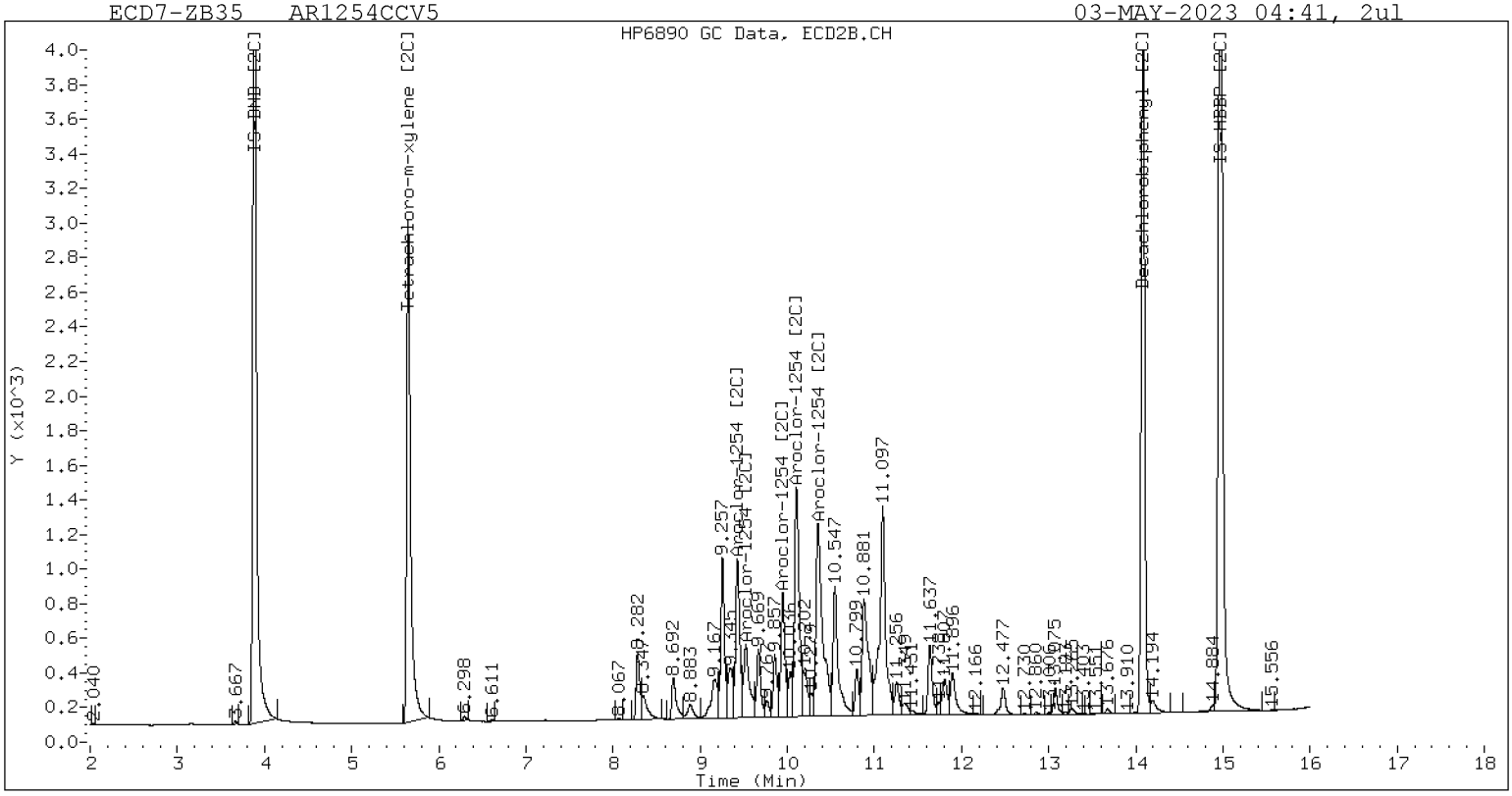
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 03-MAY-2023 04:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 03-MAY-2023 04:41, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GE00002
Lab File ID:	05022352ECD7.D	Calibration Date:	04/28/2023
Sequence:	SLE0029	Injection Date:	05/03/23
Lab Sample ID:	SLE0029-CCV6	Injection Time:	05:02
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	256	0.0493584	0.0517993		2.5	+/-20
Aroclor-1016 (1)	A	250.00	244	0.0309351	0.0290830		-2.4	
Aroclor-1016 (2)	A	250.00	291	0.0820179	0.0955693		16.4	
Aroclor-1016 (3)	A	250.00	238	0.0555075	0.0534855		-4.8	
Aroclor-1016 (4)	A	250.00	252	0.0289731	0.0290593		0.8	
Aroclor 1016 [2C]	A	250.00	288	0.0554830	0.0651635		15.0	+/-20
Aroclor-1016 (1) [2C]	A	250.00	311	0.0433246	0.0538405		24.4	
Aroclor-1016 (2) [2C]	A	250.00	334	0.0856363	0.1144168		33.6	
Aroclor-1016 (3) [2C]	A	250.00	245	0.0537117	0.0516173		-2.0	
Aroclor-1016 (4) [2C]	A	250.00	260	0.0392594	0.0407793		4.0	
Aroclor 1260	A	250.00	248	0.0591826	0.0593902		-0.6	+/-20
Aroclor-1260 (1)	A	250.00	274	0.0451684	0.0495661		9.6	
Aroclor-1260 (2)	A	250.00	262	0.0458209	0.0479757		4.8	
Aroclor-1260 (3)	A	250.00	263	0.1189069	0.1250456		5.2	
Aroclor-1260 (4)	A	250.00	207	0.0589630	0.0488779		-17.2	
Aroclor-1260 (5)	A	250.00	236	0.0270539	0.0254856		-5.6	
Aroclor 1260 [2C]	A	250.00	238	0.0855158	0.0816236		-4.8	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0569154	0.0531088		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	243	0.1493590	0.1451160		-2.8	
Aroclor-1260 (3) [2C]	A	250.00	242	0.0340126	0.0329624		-3.2	
Aroclor-1260 (4) [2C]	A	250.00	234	0.1017762	0.0953071		-6.4	
Decachlorobiphenyl	A	40.000	38.9	0.8671959	0.8443898		-2.8	+/-20
Tetrachlorometaxylene	A	40.000	41.3	1.1690340	1.2074910		3.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.5	1.2954910	1.2785670		-1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	46.0	1.1231530	1.2927510		15.0	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230502.b/05022352ECD7.D
Data file 2: /230502.b/230502.b/05022352ECD7.D
Method: \\target\share\chem4\ecd7.i\230502.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 03-MAY-2023 05:02
Report Date: 05/03/2023 09:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.766	0.000	357872	5.649	0.000	193519	41.3	46.0	10.8	Tetrachloro-m-xylene
13.862	0.000	354322	14.083	0.000	294899	38.9	39.5	1.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	556262	592753	6.6
Hexabromobiphenyl	745660	839238	12.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	348488	299391	-14.1
Hexabromobiphenyl	429949	461296	7.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 28-APR-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.236	0.000	53872	244.3	1	7.222	0.000	50373	310.7
Aroclor-1016	2	7.632	0.000	177028	291.3	2	7.848	0.000	107048	334.0
Aroclor-1016	3	7.765	0.000	99074	238.3	3	8.058	0.000	48293	244.9
Aroclor-1016	4	8.379	0.000	53828	251.7	4	8.283	0.000	38153	259.7
Total Col1Ave (4 peaks):					256.4	Total Col2Ave (4 peaks):				287.3 RPD = 11
Corrected Ave (3 peaks):					244.7	Corrected Ave (3 peaks):				271.8 RPD = 10
CalAmt %D:					2.5	CalAmt %D:				14.9
Aroclor-1260	1	11.016	0.000	129993	274.3	1	11.624	0.000	76559	233.3
Aroclor-1260	2	11.334	0.000	125822	261.8	2	11.891	0.000	209192	242.9
Aroclor-1260	3	11.711	0.000	327947	262.9	3	12.406	0.000	47517	242.3
Aroclor-1260	4	12.118	0.000	128188	207.2	4	12.475	0.000	137390	234.1
Aroclor-1260	5	12.216	0.000	66839	235.5	NS	---			----
Total Col1Ave (5 peaks):					248.4	Total Col2Ave (4 peaks):				238.1 RPD = 4
Corrected Ave (4 peaks):					241.9	Corrected Ave (3 peaks):				236.6 RPD = 2
CalAmt %D:					-0.7	CalAmt %D:				-4.7

Total PCB Area Col1 (5.866 - 13.762) = 3550802 Col1 Total PCB = 0.5 ppm*

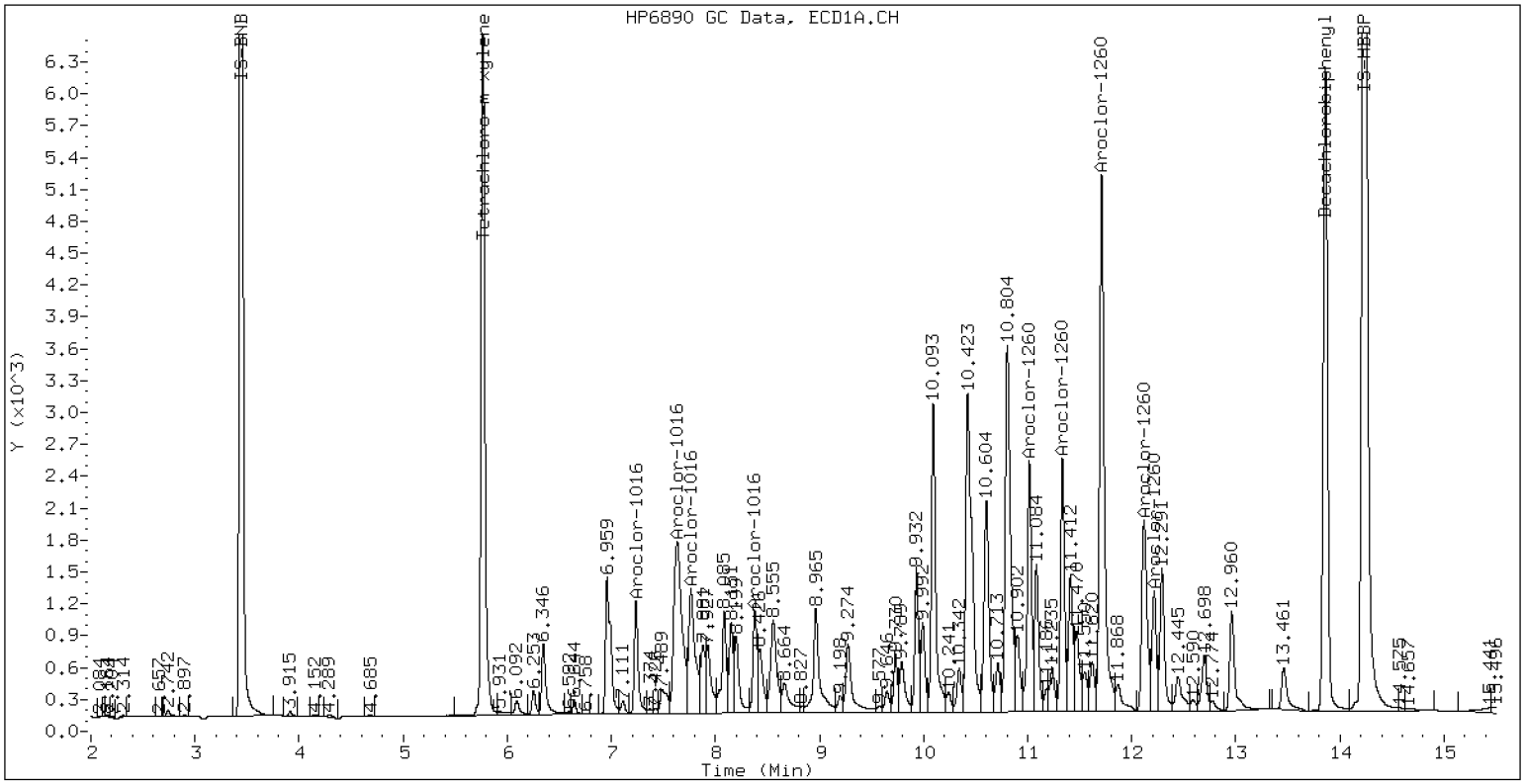
Total PCB Area Col2 (5.749 - 13.983) = 1961601 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

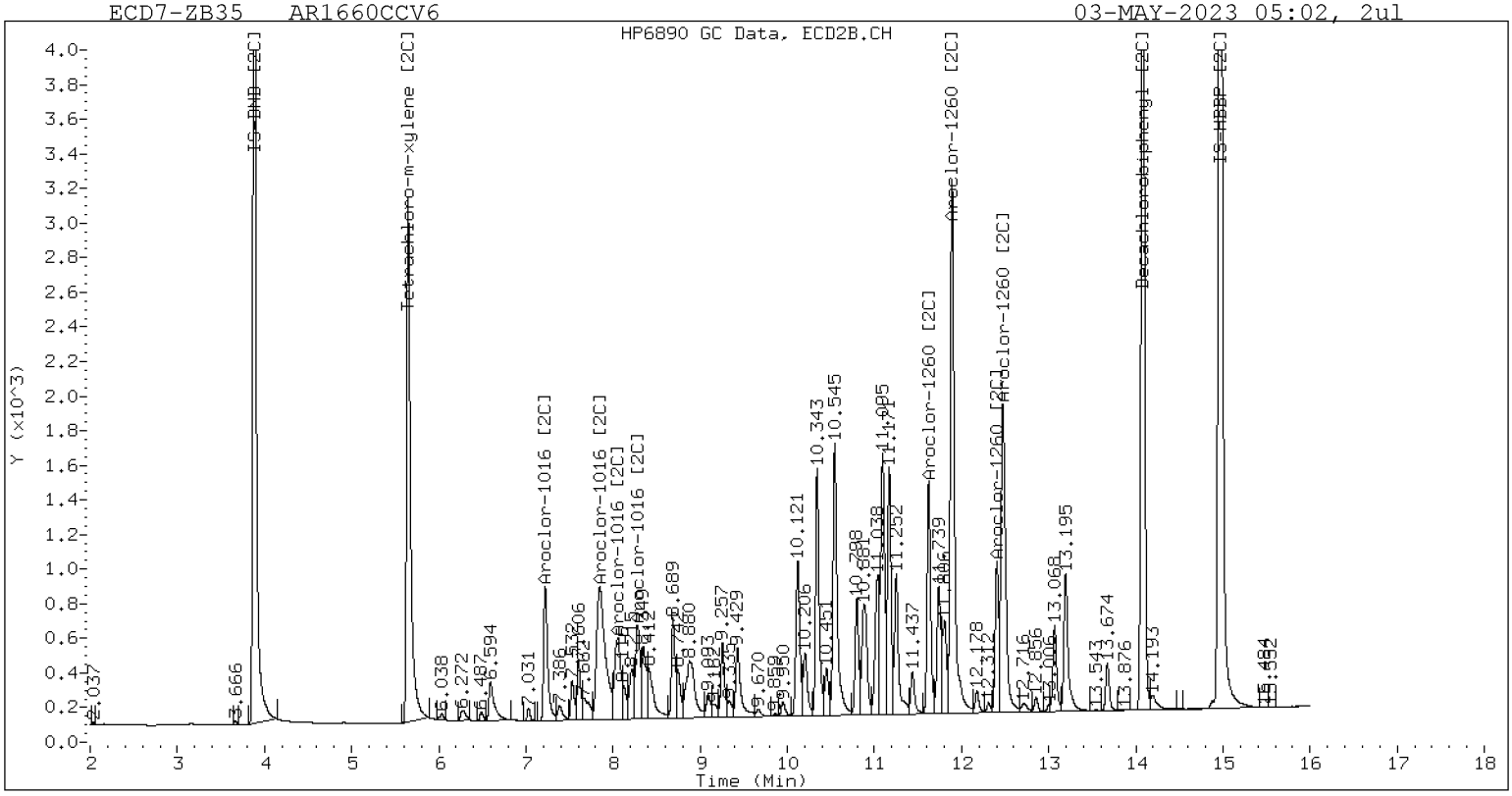
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 03-MAY-2023 05:02, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 03-MAY-2023 05:02, 2ul

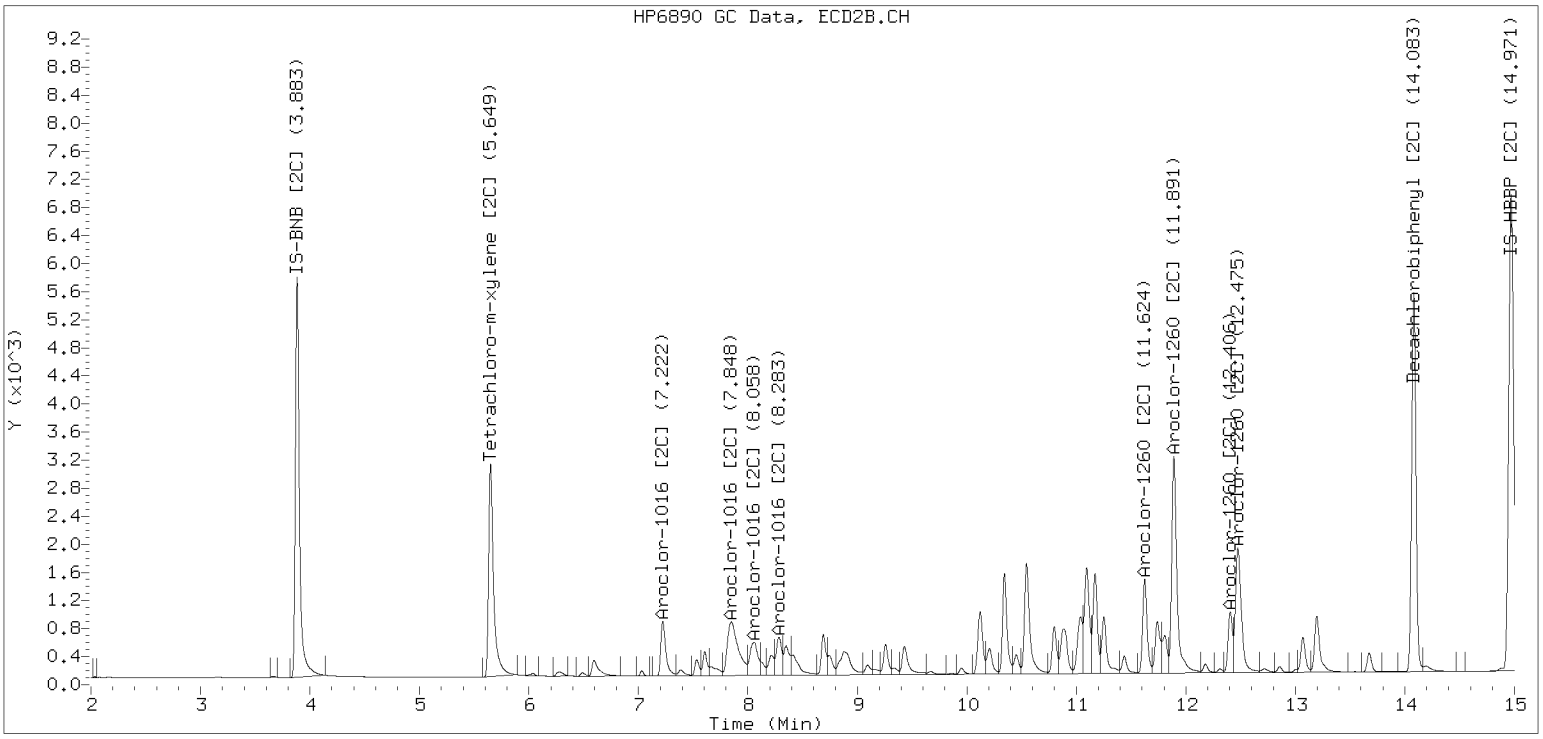


ZB-35 Manual Integration: YES

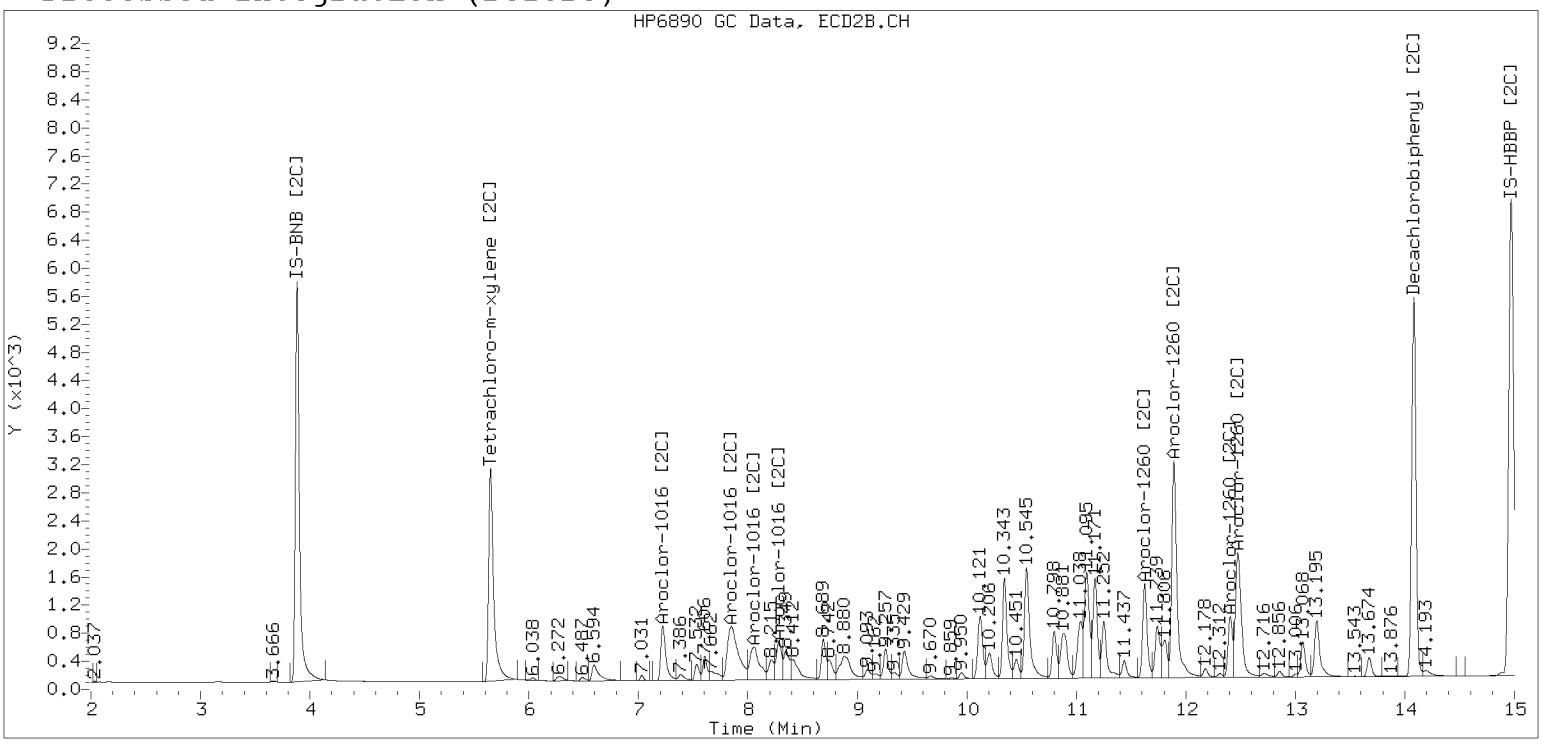
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230502.b/230502.b/05022352ECD7.D Injection Date: 03-MAY-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0427
Instrument: ECD7
Calibration: GE00002

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SLD0427-CAL1	04282304ECD7.D	04282304ECD7.D	NA	04/28/23 12:20
Cal Standard	SLD0427-CAL2	04282305ECD7.D	04282305ECD7.D	NA	04/28/23 12:41
Cal Standard	SLD0427-CAL3	04282306ECD7.D	04282306ECD7.D	NA	04/28/23 13:02
Cal Standard	SLD0427-CAL4	04282307ECD7.D	04282307ECD7.D	NA	04/28/23 13:23
Cal Standard	SLD0427-CAL5	04282308ECD7.D	04282308ECD7.D	NA	04/28/23 13:43
Cal Standard	SLD0427-CAL6	04282309ECD7.D	04282309ECD7.D	NA	04/28/23 14:04
Cal Standard	SLD0427-CAL7	04282310ECD7.D	04282310ECD7.D	NA	04/28/23 14:25
Cal Standard	SLD0427-CAL8	04282311ECD7.D	04282311ECD7.D	NA	04/28/23 14:46
Cal Standard	SLD0427-CAL9	04282312ECD7.D	04282312ECD7.D	NA	04/28/23 15:07
Cal Standard	SLD0427-CALA	04282313ECD7.D	04282313ECD7.D	NA	04/28/23 15:28
Cal Standard	SLD0427-CALB	04282314ECD7.D	04282314ECD7.D	NA	04/28/23 15:49
Secondary Cal Check	SLD0427-SCV1	04282315ECD7.D	04282315ECD7.D	NA	04/28/23 16:09
Secondary Cal Check	SLD0427-SCV2	04282316ECD7.D	04282316ECD7.D	NA	04/28/23 16:30
Secondary Cal Check	SLD0427-SCV3	04282317ECD7.D	04282317ECD7.D	NA	04/28/23 16:51
Secondary Cal Check	SLD0427-SCV4	04282318ECD7.D	04282318ECD7.D	NA	04/28/23 17:12
Secondary Cal Check	SLD0427-SCV5	04282319ECD7.D	04282319ECD7.D	NA	04/28/23 17:33
Secondary Cal Check	SLD0427-SCV6	04282320ECD7.D	04282320ECD7.D	NA	04/28/23 17:54

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLD0427

Instrument: ECD7
Calibration ID: GE00002

Printed: 5/1/2023 12:46:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLD0427-CAL1	QC		1		L000856	L000844		
SLD0427-CAL2	QC		2		L000859	L000844		
SLD0427-CAL3	QC		3		L000858	L000844		
SLD0427-CAL4	QC		4		L000731	L000844		
SLD0427-CAL5	QC		5		L000857	L000844		
SLD0427-CAL6	QC		6		L000855	L000844		
SLD0427-CAL7	QC		7		L000860	L000844		
SLD0427-CAL8	QC		8		L000861	L000844		
SLD0427-CAL9	QC		9		L000862	L000844		
SLD0427-CALA	QC		10		L000863	L000844		
SLD0427-CALB	QC		11		L000864	L000844		
SLD0427-SCV1	QC		12		L002065	L000844		
SLD0427-SCV2	QC		13		L003970	L000844		
SLD0427-SCV3	QC		14		L002066	L000844		
SLD0427-SCV4	QC		15		L002067	L000844		
SLD0427-SCV5	QC		16		L002068	L000844		
SLD0427-SCV6	QC		17		L002069	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	28-APR-2023 09:39	04282301ECD7.D	1	AR1660	
2	28-APR-2023 11:28	04282302ECD7.D	1		
3	28-APR-2023 11:59	04282303ECD7.D	1	IB	
4	28-APR-2023 12:20	04282304ECD7.D	1	0.25PPMAR1660	
5	28-APR-2023 12:41	04282305ECD7.D	1	0.02PPMAR1660	
6	28-APR-2023 13:02	04282306ECD7.D	1	0.05PPMAR1660	
7	28-APR-2023 13:23	04282307ECD7.D	1	1.0PPMAR1660	
8	28-APR-2023 13:43	04282308ECD7.D	1	0.1PPMAR1660	
9	28-APR-2023 14:04	04282309ECD7.D	1	0.5PPMAR1660	
10	28-APR-2023 14:25	04282310ECD7.D	1	0.25PPMAR1242	
11	28-APR-2023 14:46	04282311ECD7.D	1	0.25PPMAR1248	
12	28-APR-2023 15:07	04282312ECD7.D	1	0.25PPMAR1254	
13	28-APR-2023 15:28	04282313ECD7.D	1	0.25PPMAR2162	
14	28-APR-2023 15:49	04282314ECD7.D	1	0.25PPMAR3268	
15	28-APR-2023 16:09	04282315ECD7.D	1	AR1660SCV	
16	28-APR-2023 16:30	04282316ECD7.D	1	AR1242SCV	
17	28-APR-2023 16:51	04282317ECD7.D	1	AR1248SCV	
18	28-APR-2023 17:12	04282318ECD7.D	1	AR1254SCV	
19	28-APR-2023 17:33	04282319ECD7.D	1	AR2162SCV	
20	28-APR-2023 17:54	04282320ECD7.D	1	AR3268SCV	
21	28-APR-2023 18:15	04282321ECD7.D	1	DDTS	
22	28-APR-2023 18:35	04282322ECD7.D	1	DDT BD	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b

ARI Job No.: AR16 Method: PCB.m Instrument: ecd7.i Date: 28-APR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0939	04282301ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1128	04282302ECD7.D			1	NO MANUAL INTEGRATION
1159	04282303ECD7.D	IB		1	NO MANUAL INTEGRATION
1220	04282304ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1241	04282305ECD7.D	0.02PPMAR1660		1	Aroclor-1016,
1302	04282306ECD7.D	0.05PPMAR1660		1	Aroclor-1016,
1323	04282307ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1343	04282308ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1404	04282309ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1425	04282310ECD7.D	0.25PPMAR1242		1	Aroclor-1242,
1446	04282311ECD7.D	0.25PPMAR1248		1	Aroclor-1248,
1507	04282312ECD7.D	0.25PPMAR1254		1	Aroclor-1254,
1528	04282313ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1549	04282314ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1609	04282315ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1630	04282316ECD7.D	AR1242SCV		1	Aroclor-1242,
1651	04282317ECD7.D	AR1248SCV		1	Aroclor-1016, Aroclor-1242, Aroclor-1248,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1712	04282318ECD7.D	AR1254SCV		1	Aroclor-1254,
1733	04282319ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1754	04282320ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1815	04282321ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1835	04282322ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
0939	04282301ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1128	04282302ECD7.D	RINSE		1	NO MANUAL INTEGRATION
1159	04282303ECD7.D	IB		1	NO MANUAL INTEGRATION
1220	04282304ECD7.D	0.25PPMAR1660		1	IS-BNB [2C],
1241	04282305ECD7.D	0.02PPMAR1660		1	Aroclor-1016 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1302	04282306ECD7.D	0.05PPMAR1660		1	Aroclor-1016 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1323	04282307ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1343	04282308ECD7.D	0.1PPMAR1660		1	Aroclor-1016 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1404	04282309ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1425	04282310ECD7.D	0.25PPMAR1242		1	Aroclor-1242 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1446	04282311ECD7.D	0.25PPMAR1248		1	Aroclor-1248 [2C],
1507	04282312ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1528	04282313ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230428.b\230428.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1549	04282314ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1609	04282315ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1630	04282316ECD7.D	AR1242SCV		1	Aroclor-1242 [2C],
1651	04282317ECD7.D	AR1248SCV		1	Aroclor-1248 [2C],
1712	04282318ECD7.D	AR1254SCV		1	Aroclor-1254 [2C],
1733	04282319ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1754	04282320ECD7.D	AR3268SCV		1	Aroclor-1232 [2C], Aroclor-1242 [2C], Aroclor-1248 [2C],
1815	04282321ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1835	04282322ECD7.D	DDT BD		1	NO MANUAL INTEGRATION

Security Status Report

Date: 01-May-2023 12:34

04282301ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282302ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282303ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282304ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282305ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282306ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282307ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282308ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282309ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282310ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282311ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282312ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282313ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282314ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282315ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282316ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282317ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282318ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282319ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282320ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282321ECD7.D	Data Locked	richardl, 01-May-2023 12:34
04282322ECD7.D	Data Locked	richardl, 01-May-2023 12:34

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0029
Instrument: ECD7
Calibration: GE00002

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLE0029-ICV1	05022307ECD7.D	05022307ECD7.D	NA	05/02/23 13:23
Initial Cal Check	SLE0029-ICV2	05022308ECD7.D	05022308ECD7.D	NA	05/02/23 13:44
Calibration Check	SLE0029-CCV1	05022314ECD7.D	05022314ECD7.D	NA	05/02/23 15:49
Calibration Check	SLE0029-CCV2	05022315ECD7.D	05022315ECD7.D	NA	05/02/23 16:10
Calibration Check	SLE0029-CCV3	05022330ECD7.D	05022330ECD7.D	NA	05/02/23 21:23
Calibration Check	SLE0029-CCV4	05022331ECD7.D	05022331ECD7.D	NA	05/02/23 21:44
Blank	BLD0328-BLK1	05022332ECD7.D	05022332ECD7.D	Solid	05/02/23 22:05
LCS	BLD0328-BS1	05022333ECD7.D	05022333ECD7.D	Solid	05/02/23 22:25
LCS Dup	BLD0328-BSD1	05022334ECD7.D	05022334ECD7.D	Solid	05/02/23 22:46
Reference	BLD0328-SRM1	05022335ECD7.D	05022335ECD7.D	Solid	05/02/23 23:07
LDW23-SS1804	23D0136-01	05022336ECD7.D	05022336ECD7.D	Solid	05/02/23 23:28
LDW23-SC1804	23D0136-02	05022337ECD7.D	05022337ECD7.D	Solid	05/02/23 23:49
LDW23-SC1804	BLD0328-MS1	05022338ECD7.D	05022338ECD7.D	Solid	05/03/23 00:10
LDW23-SC1804	BLD0328-MSD1	05022339ECD7.D	05022339ECD7.D	Solid	05/03/23 00:31
LDW23-SS1803	23D0136-03	05022340ECD7.D	05022340ECD7.D	Solid	05/03/23 00:51
LDW23-SC1803	23D0136-04	05022341ECD7.D	05022341ECD7.D	Solid	05/03/23 01:12
Calibration Check	SLE0029-CCV5	05022351ECD7.D	05022351ECD7.D	NA	05/03/23 04:41
Calibration Check	SLE0029-CCV6	05022352ECD7.D	05022352ECD7.D	NA	05/03/23 05:02

Analytical Resources, LLC
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ANALYSIS SEQUENCE

SLE0029

Instrument: ECD7
Calibration ID: GE00002

Printed: 5/3/2023 10:17:49AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLE0029-ICV1	QC		1		L000862	L000844		
SLE0029-ICV2	QC		2		L000856	L000844		
BLE0011-BLK1	QC		3			L000844		
BLE0011-BS1	QC		4			L000844		
BLE0011-BSD1	QC		5			L000844		
23D0677-01	082A PCB Medium Level Oil	A 01	6			L000844	The Boeing Company [Auburn]	
SLE0029-CCV1	QC		7		L000861	L000844		
SLE0029-CCV2	QC		8		L000856	L000844		
BLD0300-BLK1	QC		9			L000844		
BLD0300-BS1	QC		10			L000844		
BLD0300-BSD1	QC		11			L000844		
BLD0300-SRM1	QC		12			L000844		
23D0037-01	8082A PCB Solid 4	A 03	13			L000844	Anchor QEA, LLC	
23D0037-02	8082A PCB Solid 4	A 03	14			L000844	Anchor QEA, LLC	
23D0037-03	8082A PCB Solid 4	A 03	15			L000844	Anchor QEA, LLC	
BLD0300-MS1	QC		16			L000844		
BLD0300-MSD1	QC		17			L000844		
23D0037-04	8082A PCB Solid 4	A 03	18			L000844	Anchor QEA, LLC	
23D0063-01	8082A PCB Solid 4	A 03	19			L000844	Anchor QEA, LLC	
23D0063-02	8082A PCB Solid 4	A 03	20			L000844	Anchor QEA, LLC	
23D0063-03	8082A PCB Solid 4	A 03	21			L000844	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLE0029

Instrument: ECD7
Calibration ID: GE00002

Printed: 5/3/2023 10:17:49AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23D0063-04	8082A PCB Solid 4	A 01	22			L000844	Anchor QEA, LLC	
SLE0029-CCV3	QC		23		L000860	L000844		
SLE0029-CCV4	QC		24		L000856	L000844		
BLD0328-BLK1	QC		25			L000844		
BLD0328-BS1	QC		26			L000844		
BLD0328-BSD1	QC		27			L000844		
BLD0328-SRM1	QC		28			L000844		
23D0136-01	8082A PCB Solid 4	A 03	29			L000844	Anchor QEA, LLC	
23D0136-02	8082A PCB Solid 4	A 02	30			L000844	Anchor QEA, LLC	
BLD0328-MS1	QC		31			L000844		
BLD0328-MSD1	QC		32			L000844		
23D0136-03	8082A PCB Solid 4	A 02	33			L000844	Anchor QEA, LLC	
23D0136-04	8082A PCB Solid 4	A 01	34			L000844	Anchor QEA, LLC	
BLD0531-BLK1	QC		35			L000844		
BLD0531-BS1	QC		36			L000844		
BLD0531-BSD1	QC		37			L000844		
23D0383-01	PCB (20 ug/kg) or (MTCA 0.	A 01	38			L000844	Nucor Steel Corporation	
23D0384-01	PCB (20 ug/kg) or (MTCA 0.	B 01	39			L000844	Nucor Steel Corporation	
23D0420-01	PCB (20 ug/kg) or (MTCA 0.	C 01	40			L000844	Nucor Steel Corporation	
23D0421-01	PCB (20 ug/kg) or (MTCA 0.	C 01	41			L000844	Nucor Steel Corporation	
23D0437-01	PCB (20 ug/kg) or (MTCA 0.	E 01	42			L000844	Seattle Public Utilities	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLE0029

Instrument: ECD7
Calibration ID: GE00002

Printed: 5/3/2023 10:17:49AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23D0437-02	PCB (20 ug/kg) or (MTCA 0.	F 01	43			L000844	Seattle Public Utilities	
SLE0029-CCV5	QC		44		L000862	L000844		
SLE0029-CCV6	QC		45		L000856	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	02-MAY-2023 11:18	05022301ECD7.D	1	AR1660	
2	02-MAY-2023 11:38	05022302ECD7.D	1	AR1254	
3	02-MAY-2023 11:59	05022303ECD7.D	1	AR1248	
4	02-MAY-2023 12:20	05022304ECD7.D	1	AR1242	
5	02-MAY-2023 12:41	05022305ECD7.D	1	AR1660	
6	02-MAY-2023 13:02	05022306ECD7.D	1	DDTS	
7	02-MAY-2023 13:23	05022307ECD7.D	1	AR1254ICV1	
8	02-MAY-2023 13:44	05022308ECD7.D	1	AR1660ICV2	
9	02-MAY-2023 14:05	05022309ECD7.D	1	BLE0011-BLK1	
10	02-MAY-2023 14:26	05022310ECD7.D	1	BLE0011-BS1	
11	02-MAY-2023 14:46	05022311ECD7.D	1	BLE0011-BSD1	
12	02-MAY-2023 15:07	05022312ECD7.D	1	23D0677-01	
13	02-MAY-2023 15:28	05022313ECD7.D	5	23D0677-01RE1	
14	02-MAY-2023 15:49	05022314ECD7.D	1	AR1248CCV1	
15	02-MAY-2023 16:10	05022315ECD7.D	1	AR1660CCV2	
16	02-MAY-2023 16:31	05022316ECD7.D	1	BLD0300-BLK1	
17	02-MAY-2023 16:52	05022317ECD7.D	1	BLD0300-BS1	
18	02-MAY-2023 17:13	05022318ECD7.D	1	BLD0300-BSD1	
19	02-MAY-2023 17:33	05022319ECD7.D	1	BLD0300-SRM1	
20	02-MAY-2023 17:54	05022320ECD7.D	5	23D0037-01RE1	
21	02-MAY-2023 18:15	05022321ECD7.D	5	23D0037-02RE1	
22	02-MAY-2023 18:36	05022322ECD7.D	5	23D0037-03RE1	
23	02-MAY-2023 18:57	05022323ECD7.D	5	BLD0300-MS1RE1	
24	02-MAY-2023 19:18	05022324ECD7.D	5	BLD0300-MSD1RE	
25	02-MAY-2023 19:39	05022325ECD7.D	5	23D0037-04RE1	
26	02-MAY-2023 19:59	05022326ECD7.D	5	23D0063-01RE1	
27	02-MAY-2023 20:20	05022327ECD7.D	5	23D0063-02RE1	
28	02-MAY-2023 20:41	05022328ECD7.D	5	23D0063-03RE1	
29	02-MAY-2023 21:02	05022329ECD7.D	5	23D0063-04RE1	
30	02-MAY-2023 21:23	05022330ECD7.D	1	AR1242CCV3	
31	02-MAY-2023 21:44	05022331ECD7.D	1	AR1660CCV4	
32	02-MAY-2023 22:05	05022332ECD7.D	1	BLD0328-BLK1	
33	02-MAY-2023 22:25	05022333ECD7.D	1	BLD0328-BS1	
34	02-MAY-2023 22:46	05022334ECD7.D	1	BLD0328-BSD1	
35	02-MAY-2023 23:07	05022335ECD7.D	1	BLD0328-SRM1	
36	02-MAY-2023 23:28	05022336ECD7.D	5	23D0136-01RE1	
37	02-MAY-2023 23:49	05022337ECD7.D	5	23D0136-02RE1	
38	03-MAY-2023 00:10	05022338ECD7.D	5	BLD0328-MS1RE1	
39	03-MAY-2023 00:31	05022339ECD7.D	5	BLD0328-MSD1RE	
40	03-MAY-2023 00:51	05022340ECD7.D	5	23D0136-03RE1	
41	03-MAY-2023 01:12	05022341ECD7.D	5	23D0136-04RE1	
42	03-MAY-2023 01:33	05022342ECD7.D	1	BLD0531-BLK1	
43	03-MAY-2023 01:54	05022343ECD7.D	1	BLD0531-BS1	
44	03-MAY-2023 02:15	05022344ECD7.D	1	BLD0531-BSD1	
45	03-MAY-2023 02:36	05022345ECD7.D	1	23D0383-01	
46	03-MAY-2023 02:56	05022346ECD7.D	1	23D0384-01	
47	03-MAY-2023 03:17	05022347ECD7.D	1	23D0420-01	
48	03-MAY-2023 03:38	05022348ECD7.D	1	23D0421-01	
49	03-MAY-2023 03:59	05022349ECD7.D	1	23D0437-01	
50	03-MAY-2023 04:20	05022350ECD7.D	1	23D0437-02	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	03-MAY-2023 04:41	05022351ECD7.D	1	AR1254CCV5	
52	03-MAY-2023 05:02	05022352ECD7.D	1	AR1660CCV6	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b

ARI Job No.: AR16 Method: PCB.m Instrument: ecd7.i Date: 02-MAY-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1118	05022301ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1138	05022302ECD7.D	AR1254		1	NO MANUAL INTEGRATION
1159	05022303ECD7.D	AR1248		1	NO MANUAL INTEGRATION
1220	05022304ECD7.D	AR1242		1	NO MANUAL INTEGRATION
1241	05022305ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1302	05022306ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1323	05022307ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1344	05022308ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1405	05022309ECD7.D	BLE0011-BLK1		1	NO MANUAL INTEGRATION
1426	05022310ECD7.D	BLE0011-BS1		1	NO MANUAL INTEGRATION
1446	05022311ECD7.D	BLE0011-BSD1		1	NO MANUAL INTEGRATION
1507	05022312ECD7.D	23D0677-01		1	NO MANUAL INTEGRATION
1528	05022313ECD7.D	23D0677-01RE1		5	NO MANUAL INTEGRATION
1549	05022314ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1610	05022315ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1631	05022316ECD7.D	BLD0300-BLK1		1	NO MANUAL INTEGRATION
1652	05022317ECD7.D	BLD0300-BS1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1713	05022318ECD7.D	BLD0300-BSD1		1	NO MANUAL INTEGRATION
1733	05022319ECD7.D	BLD0300-SRM1		1	NO MANUAL INTEGRATION
1754	05022320ECD7.D	23D0037-01RE1		5	Aroclor-1254, Aroclor-1260,
1815	05022321ECD7.D	23D0037-02RE1		5	Aroclor-1254, Aroclor-1260,
1836	05022322ECD7.D	23D0037-03RE1		5	Aroclor-1254, Aroclor-1260,
1857	05022323ECD7.D	BLD0300-MS1RE1		5	Aroclor-1254, Aroclor-1260,
1918	05022324ECD7.D	BLD0300-MSD1RE		5	Aroclor-1254,
1939	05022325ECD7.D	23D0037-04RE1		5	Aroclor-1254,
1959	05022326ECD7.D	23D0063-01RE1		5	Aroclor-1254,
2020	05022327ECD7.D	23D0063-02RE1		5	Aroclor-1254,
2041	05022328ECD7.D	23D0063-03RE1		5	Aroclor-1254,
2102	05022329ECD7.D	23D0063-04RE1		5	Aroclor-1254,
2123	05022330ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2144	05022331ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2205	05022332ECD7.D	BLD0328-BLK1		1	NO MANUAL INTEGRATION
2225	05022333ECD7.D	BLD0328-BS1		1	NO MANUAL INTEGRATION
2246	05022334ECD7.D	BLD0328-BSD1		1	NO MANUAL INTEGRATION
2307	05022335ECD7.D	BLD0328-SRM1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2328	05022336ECD7.D	23D0136-01RE1		5	Aroclor-1254,
2349	05022337ECD7.D	23D0136-02RE1		5	Aroclor-1254,
0010	05022338ECD7.D	BLD0328-MS1RE1		5	NO MANUAL INTEGRATION
0031	05022339ECD7.D	BLD0328-MSD1RE		5	Aroclor-1254,
0051	05022340ECD7.D	23D0136-03RE1		5	Aroclor-1254,
0112	05022341ECD7.D	23D0136-04RE1		5	Aroclor-1254,
0133	05022342ECD7.D	BLD0531-BLK1		1	NO MANUAL INTEGRATION
0154	05022343ECD7.D	BLD0531-BS1		1	NO MANUAL INTEGRATION
0215	05022344ECD7.D	BLD0531-BSD1		1	NO MANUAL INTEGRATION
0236	05022345ECD7.D	23D0383-01		1	Aroclor-1260,
0256	05022346ECD7.D	23D0384-01		1	NO MANUAL INTEGRATION
0317	05022347ECD7.D	23D0420-01		1	Aroclor-1254,
0338	05022348ECD7.D	23D0421-01		1	Aroclor-1254, Aroclor-1260,
0359	05022349ECD7.D	23D0437-01		1	Aroclor-1254, Aroclor-1260,
0420	05022350ECD7.D	23D0437-02		1	Aroclor-1254,
0441	05022351ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0502	05022352ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
1118	05022301ECD7.D	AR1660		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b\230502.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1138	05022302ECD7.D	AR1254		1	NO MANUAL INTEGRATION
1159	05022303ECD7.D	AR1248		1	NO MANUAL INTEGRATION
1220	05022304ECD7.D	AR1242		1	NO MANUAL INTEGRATION
1241	05022305ECD7.D	AR1660		1	NO MANUAL INTEGRATION
1302	05022306ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1323	05022307ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1344	05022308ECD7.D	AR1660ICV2		1	Aroclor-1016 [2C],
1405	05022309ECD7.D	BLE0011-BLK1		1	NO MANUAL INTEGRATION
1426	05022310ECD7.D	BLE0011-BS1		1	NO MANUAL INTEGRATION
1446	05022311ECD7.D	BLE0011-BSD1		1	NO MANUAL INTEGRATION
1507	05022312ECD7.D	23D0677-01		1	NO MANUAL INTEGRATION
1528	05022313ECD7.D	23D0677-01RE1		5	NO MANUAL INTEGRATION
1549	05022314ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1610	05022315ECD7.D	AR1660CCV2		1	Aroclor-1016 [2C],
1631	05022316ECD7.D	BLD0300-BLK1		1	NO MANUAL INTEGRATION
1652	05022317ECD7.D	BLD0300-BS1		1	NO MANUAL INTEGRATION
1713	05022318ECD7.D	BLD0300-BSD1		1	NO MANUAL INTEGRATION
1733	05022319ECD7.D	BLD0300-SRM1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b\230502.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1754	05022320ECD7.D	23D0037-01RE1		5	Aroclor-1254 [2C],
1815	05022321ECD7.D	23D0037-02RE1		5	Aroclor-1254 [2C],
1836	05022322ECD7.D	23D0037-03RE1		5	Aroclor-1254 [2C],
1857	05022323ECD7.D	BLD0300-MS1RE1		5	NO MANUAL INTEGRATION
1918	05022324ECD7.D	BLD0300-MSD1RE		5	NO MANUAL INTEGRATION
1939	05022325ECD7.D	23D0037-04RE1		5	Aroclor-1254 [2C],
1959	05022326ECD7.D	23D0063-01RE1		5	NO MANUAL INTEGRATION
2020	05022327ECD7.D	23D0063-02RE1		5	Aroclor-1254 [2C],
2041	05022328ECD7.D	23D0063-03RE1		5	NO MANUAL INTEGRATION
2102	05022329ECD7.D	23D0063-04RE1		5	Aroclor-1254 [2C],
2123	05022330ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2144	05022331ECD7.D	AR1660CCV4		1	Aroclor-1016 [2C],
2205	05022332ECD7.D	BLD0328-BLK1		1	NO MANUAL INTEGRATION
2225	05022333ECD7.D	BLD0328-BS1		1	NO MANUAL INTEGRATION
2246	05022334ECD7.D	BLD0328-BSD1		1	NO MANUAL INTEGRATION
2307	05022335ECD7.D	BLD0328-SRM1		1	NO MANUAL INTEGRATION
2328	05022336ECD7.D	23D0136-01RE1		5	NO MANUAL INTEGRATION
2349	05022337ECD7.D	23D0136-02RE1		5	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230502.b\230502.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0010	05022338ECD7.D	BLD0328-MS1RE1		5	NO MANUAL INTEGRATION
0031	05022339ECD7.D	BLD0328-MSD1RE		5	NO MANUAL INTEGRATION
0051	05022340ECD7.D	23D0136-03RE1		5	NO MANUAL INTEGRATION
0112	05022341ECD7.D	23D0136-04RE1		5	NO MANUAL INTEGRATION
0133	05022342ECD7.D	BLD0531-BLK1		1	NO MANUAL INTEGRATION
0154	05022343ECD7.D	BLD0531-BS1		1	NO MANUAL INTEGRATION
0215	05022344ECD7.D	BLD0531-BSD1		1	NO MANUAL INTEGRATION
0236	05022345ECD7.D	23D0383-01		1	NO MANUAL INTEGRATION
0256	05022346ECD7.D	23D0384-01		1	NO MANUAL INTEGRATION
0317	05022347ECD7.D	23D0420-01		1	NO MANUAL INTEGRATION
0338	05022348ECD7.D	23D0421-01		1	Aroclor-1260 [2C],
0359	05022349ECD7.D	23D0437-01		1	Aroclor-1260 [2C],
0420	05022350ECD7.D	23D0437-02		1	NO MANUAL INTEGRATION
0441	05022351ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0502	05022352ECD7.D	AR1660CCV6		1	Aroclor-1016 [2C],

Security Status Report

Date: 03-May-2023 10:16

05022301ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022302ECD7.D	Data Locked	richardl, 03-May-2023 10:16
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05022306ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022307ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022308ECD7.D	Data Locked	richardl, 03-May-2023 10:16
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05022310ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022311ECD7.D	Data Locked	richardl, 03-May-2023 10:16
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05022313ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022314ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022315ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022316ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022317ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022318ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022319ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022320ECD7.D	Data Locked	richardl, 03-May-2023 10:16
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05022323ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022324ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022325ECD7.D	Data Locked	richardl, 03-May-2023 10:16
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05022327ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022328ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022329ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022330ECD7.D	Data Locked	richardl, 03-May-2023 10:16
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05022350ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022351ECD7.D	Data Locked	richardl, 03-May-2023 10:16
05022352ECD7.D	Data Locked	richardl, 03-May-2023 10:16

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0427
Instrument: ECD7
Calibration: GE00002
Calibration Date: 04/28/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLD0427-SCV1 (Water)			Lab File ID: 04282315ECD7.D			Analyzed: 04/28/23 16:09		
Decachlorobiphenyl	40.000	91.5	80 - 120	13.861	13.862	-0.0010	N/A	
Tetrachlorometaxylene	40.000	94.0	80 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	40.000	97.3	80 - 120	14.082	14.08367	-0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	90.3	80 - 120	5.65	5.6495	0.0005	N/A	
SLD0427-SCV2 (Water)			Lab File ID: 04282316ECD7.D			Analyzed: 04/28/23 16:30		
Decachlorobiphenyl	40.000	102	80 - 120	13.863	13.862	0.0010	N/A	
Tetrachlorometaxylene	40.000	84.6	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	109	80 - 120	14.083	14.08367	-0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	81.6	80 - 120	5.649	5.6495	-0.0005	N/A	
SLD0427-SCV3 (Water)			Lab File ID: 04282317ECD7.D			Analyzed: 04/28/23 16:51		
Decachlorobiphenyl	40.000	87.2	80 - 120	13.863	13.862	0.0010	N/A	
Tetrachlorometaxylene	40.000	93.4	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	94.9	80 - 120	14.083	14.08367	-0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	91.7	80 - 120	5.649	5.6495	-0.0005	N/A	
SLD0427-SCV4 (Water)			Lab File ID: 04282318ECD7.D			Analyzed: 04/28/23 17:12		
Decachlorobiphenyl	40.000	87.0	80 - 120	13.863	13.862	0.0010	N/A	
Tetrachlorometaxylene	40.000	95.8	80 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	40.000	95.9	80 - 120	14.083	14.08367	-0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	93.2	80 - 120	5.65	5.6495	0.0005	N/A	
SLD0427-SCV5 (Water)			Lab File ID: 04282319ECD7.D			Analyzed: 04/28/23 17:33		
Decachlorobiphenyl	40.000	89.8	80 - 120	13.862	13.862	0.0000	N/A	
Tetrachlorometaxylene	40.000	95.7	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	97.4	80 - 120	14.083	14.08367	-0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	95.0	80 - 120	5.65	5.6495	0.0005	N/A	
SLD0427-SCV6 (Water)			Lab File ID: 04282320ECD7.D			Analyzed: 04/28/23 17:54		
Decachlorobiphenyl	40.000	136	80 - 120	13.863	13.862	0.0010	N/A	
Tetrachlorometaxylene	40.000	99.2	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	150	80 - 120	14.083	14.08367	-0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	95.1	80 - 120	5.65	5.6495	0.0005	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0029
Instrument: ECD7
Calibration: GE00002
Calibration Date: 04/28/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLE0029-ICV1 (Solid)			Lab File ID: 05022307ECD7.D			Analyzed: 05/02/23 13:23		
Decachlorobiphenyl	40.000	95.3	80 - 120	13.861	13.862	-0.0010	N/A	
Tetrachlorometaxylene	40.000	97.3	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	95.8	80 - 120	14.082	14.08367	-0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.649	5.6495	-0.0005	N/A	
SLE0029-ICV2 (Solid)			Lab File ID: 05022308ECD7.D			Analyzed: 05/02/23 13:44		
Decachlorobiphenyl	40.000	99.5	80 - 120	13.86	13.862	-0.0020	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	40.000	98.3	80 - 120	14.08	14.08367	-0.0037	N/A	
Tetrachlorometaxylene [2C]	40.000	115	80 - 120	5.648	5.6495	-0.0015	N/A	
SLE0029-CCV1 (Solid)			Lab File ID: 05022314ECD7.D			Analyzed: 05/02/23 15:49		
Decachlorobiphenyl	40.000	90.8	80 - 120	13.862	13.862	0.0000	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	93.0	80 - 120	14.082	14.08367	-0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	97.0	80 - 120	5.65	5.6495	0.0005	N/A	
SLE0029-CCV2 (Solid)			Lab File ID: 05022315ECD7.D			Analyzed: 05/02/23 16:10		
Decachlorobiphenyl	40.000	96.0	80 - 120	13.86	13.862	-0.0020	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	40.000	96.5	80 - 120	14.081	14.08367	-0.0027	N/A	
Tetrachlorometaxylene [2C]	40.000	115	80 - 120	5.648	5.6495	-0.0015	N/A	
SLE0029-CCV3 (Solid)			Lab File ID: 05022330ECD7.D			Analyzed: 05/02/23 21:23		
Decachlorobiphenyl	40.000	90.5	80 - 120	13.861	13.862	-0.0010	N/A	
Tetrachlorometaxylene	40.000	120	80 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	40.000	95.3	80 - 120	14.082	14.08367	-0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	121	80 - 120	5.648	5.6495	-0.0015	N/A	*
SLE0029-CCV4 (Solid)			Lab File ID: 05022331ECD7.D			Analyzed: 05/02/23 21:44		
Decachlorobiphenyl	40.000	100	80 - 120	13.862	13.862	0.0000	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.081	14.08367	-0.0027	N/A	
Tetrachlorometaxylene [2C]	40.000	115	80 - 120	5.649	5.6495	-0.0005	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0029
Instrument: ECD7
Calibration: GE00002
Calibration Date: 04/28/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0328-BLK1 (Solid)			Lab File ID: 05022332ECD7.D			Analyzed: 05/02/23 22:05		
Decachlorobiphenyl	8.0000	87.0	40 - 126	13.859	13.862	-0.0030	N/A	
Tetrachlorometaxylene	8.0000	77.1	44 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	8.0000	89.9	40 - 126	14.08	14.08367	-0.0037	N/A	
Tetrachlorometaxylene [2C]	8.0000	75.2	44 - 120	5.648	5.6495	-0.0015	N/A	
BLD0328-BS1 (Solid)			Lab File ID: 05022333ECD7.D			Analyzed: 05/02/23 22:25		
Decachlorobiphenyl	8.0000	89.7	40 - 126	13.859	13.862	-0.0030	N/A	
Tetrachlorometaxylene	8.0000	81.9	44 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	8.0000	90.2	40 - 126	14.081	14.08367	-0.0027	N/A	
Tetrachlorometaxylene [2C]	8.0000	77.5	44 - 120	5.648	5.6495	-0.0015	N/A	
BLD0328-BSD1 (Solid)			Lab File ID: 05022334ECD7.D			Analyzed: 05/02/23 22:46		
Decachlorobiphenyl	8.0000	90.8	40 - 126	13.858	13.862	-0.0040	N/A	
Tetrachlorometaxylene	8.0000	86.4	44 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	8.0000	89.7	40 - 126	14.08	14.08367	-0.0037	N/A	
Tetrachlorometaxylene [2C]	8.0000	80.0	44 - 120	5.647	5.6495	-0.0025	N/A	
BLD0328-SRM1 (Solid)			Lab File ID: 05022335ECD7.D			Analyzed: 05/02/23 23:07		
Decachlorobiphenyl	40.000	79.9	40 - 126	13.853	13.862	-0.0090	N/A	
Tetrachlorometaxylene	40.000	74.6	44 - 120	5.763	5.765833	-0.0028	N/A	
Decachlorobiphenyl [2C]	40.000	76.5	40 - 126	14.074	14.08367	-0.0097	N/A	
Tetrachlorometaxylene [2C]	40.000	75.7	44 - 120	5.645	5.6495	-0.0045	N/A	
23D0136-01 (Solid)			Lab File ID: 05022336ECD7.D			Analyzed: 05/02/23 23:28		
Decachlorobiphenyl	7.9982	86.8	40 - 126	13.85	13.862	-0.0120	N/A	
Tetrachlorometaxylene	7.9982	75.1	44 - 120	5.762	5.765833	-0.0038	N/A	
Decachlorobiphenyl [2C]	7.9982	75.3	40 - 126	14.073	14.08367	-0.0107	N/A	
Tetrachlorometaxylene [2C]	7.9982	78.5	44 - 120	5.644	5.6495	-0.0055	N/A	
23D0136-02 (Solid)			Lab File ID: 05022337ECD7.D			Analyzed: 05/02/23 23:49		
Decachlorobiphenyl	7.9973	93.6	40 - 126	13.852	13.862	-0.0100	N/A	
Tetrachlorometaxylene	7.9973	76.8	44 - 120	5.763	5.765833	-0.0028	N/A	
Decachlorobiphenyl [2C]	7.9973	75.8	40 - 126	14.074	14.08367	-0.0097	N/A	
Tetrachlorometaxylene [2C]	7.9973	77.6	44 - 120	5.645	5.6495	-0.0045	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0029
Instrument: ECD7
Calibration: GE00002
Calibration Date: 04/28/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLD0328-MS1 (Solid)			Lab File ID: 05022338ECD7.D			Analyzed: 05/03/23 00:10		
Decachlorobiphenyl	8.0005	82.7	40 - 126	13.852	13.862	-0.0100	N/A	
Tetrachlorometaxylene	8.0005	73.6	44 - 120	5.762	5.765833	-0.0038	N/A	
Decachlorobiphenyl [2C]	8.0005	70.7	40 - 126	14.072	14.08367	-0.0117	N/A	
Tetrachlorometaxylene [2C]	8.0005	71.9	44 - 120	5.645	5.6495	-0.0045	N/A	
BLD0328-MSD1 (Solid)			Lab File ID: 05022339ECD7.D			Analyzed: 05/03/23 00:31		
Decachlorobiphenyl	8.0005	78.7	40 - 126	13.851	13.862	-0.0110	N/A	
Tetrachlorometaxylene	8.0005	67.2	44 - 120	5.762	5.765833	-0.0038	N/A	
Decachlorobiphenyl [2C]	8.0005	67.8	40 - 126	14.073	14.08367	-0.0107	N/A	
Tetrachlorometaxylene [2C]	8.0005	69.0	44 - 120	5.645	5.6495	-0.0045	N/A	
23D0136-03 (Solid)			Lab File ID: 05022340ECD7.D			Analyzed: 05/03/23 00:51		
Decachlorobiphenyl	7.9916	78.5	40 - 126	13.851	13.862	-0.0110	N/A	
Tetrachlorometaxylene	7.9916	66.7	44 - 120	5.762	5.765833	-0.0038	N/A	
Decachlorobiphenyl [2C]	7.9916	68.9	40 - 126	14.073	14.08367	-0.0107	N/A	
Tetrachlorometaxylene [2C]	7.9916	68.9	44 - 120	5.644	5.6495	-0.0055	N/A	
23D0136-04 (Solid)			Lab File ID: 05022341ECD7.D			Analyzed: 05/03/23 01:12		
Decachlorobiphenyl	7.9999	76.6	40 - 126	13.852	13.862	-0.0100	N/A	
Tetrachlorometaxylene	7.9999	68.2	44 - 120	5.762	5.765833	-0.0038	N/A	
Decachlorobiphenyl [2C]	7.9999	67.7	40 - 126	14.073	14.08367	-0.0107	N/A	
Tetrachlorometaxylene [2C]	7.9999	69.3	44 - 120	5.644	5.6495	-0.0055	N/A	
SLE0029-CCV5 (Solid)			Lab File ID: 05022351ECD7.D			Analyzed: 05/03/23 04:41		
Decachlorobiphenyl	40.000	90.8	80 - 120	13.862	13.862	0.0000	N/A	
Tetrachlorometaxylene	40.000	96.8	80 - 120	5.766	5.765833	0.0002	N/A	
Decachlorobiphenyl [2C]	40.000	91.8	80 - 120	14.083	14.08367	-0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.649	5.6495	-0.0005	N/A	
SLE0029-CCV6 (Solid)			Lab File ID: 05022352ECD7.D			Analyzed: 05/03/23 05:02		
Decachlorobiphenyl	40.000	97.3	80 - 120	13.861	13.862	-0.0010	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.765	5.765833	-0.0008	N/A	
Decachlorobiphenyl [2C]	40.000	98.8	80 - 120	14.082	14.08367	-0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	115	80 - 120	5.648	5.6495	-0.0015	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0427	Instrument:	ECD7
		Calibration:	GE00002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLD0427-SCV1)		(Water)	Lab File ID: 04282315ECD7.D				Analyzed: 04/28/23 16:09		
1-Bromo-2-Nitrobenzene	597924	3.443	556262	3.443	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1154377	14.239	745660	14.239	155	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	362828	3.883	348488	3.883	104	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	555238	14.972	429949	14.973	129	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLD0427-SCV2)		(Water)	Lab File ID: 04282316ECD7.D				Analyzed: 04/28/23 16:30		
1-Bromo-2-Nitrobenzene	591263	3.443	556262	3.443	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1174114	14.239	745660	14.239	157	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	358789	3.883	348488	3.883	103	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	558275	14.972	429949	14.973	130	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLD0427-SCV3)		(Water)	Lab File ID: 04282317ECD7.D				Analyzed: 04/28/23 16:51		
1-Bromo-2-Nitrobenzene	604265	3.443	556262	3.443	109	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1214161	14.238	745660	14.239	163	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	364434	3.883	348488	3.883	105	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	568134	14.973	429949	14.973	132	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLD0427-SCV4)		(Water)	Lab File ID: 04282318ECD7.D				Analyzed: 04/28/23 17:12		
1-Bromo-2-Nitrobenzene	604006	3.444	556262	3.443	109	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1269568	14.24	745660	14.239	170	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	364366	3.884	348488	3.883	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	578129	14.973	429949	14.973	134	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLD0427-SCV5)		(Water)	Lab File ID: 04282319ECD7.D				Analyzed: 04/28/23 17:33		
1-Bromo-2-Nitrobenzene	601660	3.444	556262	3.443	108	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1282462	14.242	745660	14.239	172	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	359781	3.884	348488	3.883	103	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	576077	14.971	429949	14.973	134	50 - 200	-0.002	+/-0.50	
Secondary Cal Check (SLD0427-SCV6)		(Water)	Lab File ID: 04282320ECD7.D				Analyzed: 04/28/23 17:54		
1-Bromo-2-Nitrobenzene	594267	3.445	556262	3.443	107	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	1272651	14.241	745660	14.239	171	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	357253	3.884	348488	3.883	103	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	572751	14.972	429949	14.973	133	50 - 200	-0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0029
Instrument: ECD7
Calibration: GE00002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLE0029-ICV1)		(Solid)	Lab File ID: 05022307ECD7.D				Analyzed: 05/02/23 13:23		
1-Bromo-2-Nitrobenzene	552159	3.444	552159	3.444	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	842466	14.238	842466	14.238	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	306695	3.884	306695	3.884	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	437547	14.97	437547	14.97	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLE0029-ICV2)		(Solid)	Lab File ID: 05022308ECD7.D				Analyzed: 05/02/23 13:44		
1-Bromo-2-Nitrobenzene	563960	3.443	563960	3.443	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	868947	14.237	868947	14.237	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	281447	3.882	281447	3.882	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	443625	14.97	443625	14.97	100	50 - 200	0.000	+/-0.50	
Blank (BLD0328-BLK1)		(Solid)	Lab File ID: 05022332ECD7.D				Analyzed: 05/02/23 22:05		
1-Bromo-2-Nitrobenzene	587428	3.444	563960	3.443	104	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	892849	14.232	868947	14.237	103	50 - 200	-0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	350622	3.883	281447	3.882	125	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	443216	14.968	443625	14.97	100	50 - 200	-0.002	+/-0.50	
LCS (BLD0328-BS1)		(Solid)	Lab File ID: 05022333ECD7.D				Analyzed: 05/02/23 22:25		
1-Bromo-2-Nitrobenzene	601022	3.444	563960	3.443	107	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	966904	14.233	868947	14.237	111	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	349925	3.883	281447	3.882	124	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	465538	14.969	443625	14.97	105	50 - 200	-0.001	+/-0.50	
LCS Dup (BLD0328-BSD1)		(Solid)	Lab File ID: 05022334ECD7.D				Analyzed: 05/02/23 22:46		
1-Bromo-2-Nitrobenzene	584721	3.444	563960	3.443	104	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	978758	14.233	868947	14.237	113	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	348110	3.884	281447	3.882	124	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	477486	14.968	443625	14.97	108	50 - 200	-0.002	+/-0.50	
Reference (BLD0328-SRM1)		(Solid)	Lab File ID: 05022335ECD7.D				Analyzed: 05/02/23 23:07		
1-Bromo-2-Nitrobenzene	580399	3.444	563960	3.443	103	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	721339	14.221	868947	14.237	83	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	344991	3.883	281447	3.882	123	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	440401	14.961	443625	14.97	99	50 - 200	-0.009	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0029

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GE00002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1804 (23D0136-01)		(Solid)	Lab File ID: 05022336ECD7.D				Analyzed: 05/02/23 23:28		
1-Bromo-2-Nitrobenzene	577525	3.443	563960	3.443	102	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	620746	14.219	868947	14.237	71	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	349684	3.883	281447	3.882	124	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	415531	14.959	443625	14.97	94	50 - 200	-0.011	+/-0.50	
LDW23-SC1804 (23D0136-02)		(Solid)	Lab File ID: 05022337ECD7.D				Analyzed: 05/02/23 23:49		
1-Bromo-2-Nitrobenzene	583001	3.444	563960	3.443	103	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	625284	14.219	868947	14.237	72	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	355322	3.883	281447	3.882	126	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	419266	14.96	443625	14.97	95	50 - 200	-0.010	+/-0.50	
Matrix Spike (BLD0328-MS1)		(Solid)	Lab File ID: 05022338ECD7.D				Analyzed: 05/03/23 00:10		
1-Bromo-2-Nitrobenzene	593414	3.444	563960	3.443	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	630407	14.219	868947	14.237	73	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	357546	3.883	281447	3.882	127	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	420968	14.958	443625	14.97	95	50 - 200	-0.012	+/-0.50	
Matrix Spike Dup (BLD0328-MSD1)		(Solid)	Lab File ID: 05022339ECD7.D				Analyzed: 05/03/23 00:31		
1-Bromo-2-Nitrobenzene	583991	3.444	563960	3.443	104	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	624434	14.22	868947	14.237	72	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	354377	3.883	281447	3.882	126	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	410587	14.958	443625	14.97	93	50 - 200	-0.012	+/-0.50	
LDW23-SS1803 (23D0136-03)		(Solid)	Lab File ID: 05022340ECD7.D				Analyzed: 05/03/23 00:51		
1-Bromo-2-Nitrobenzene	580285	3.443	563960	3.443	103	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	614670	14.219	868947	14.237	71	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	351909	3.883	281447	3.882	125	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	410688	14.957	443625	14.97	93	50 - 200	-0.013	+/-0.50	
LDW23-SC1803 (23D0136-04)		(Solid)	Lab File ID: 05022341ECD7.D				Analyzed: 05/03/23 01:12		
1-Bromo-2-Nitrobenzene	578926	3.443	563960	3.443	103	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	621847	14.22	868947	14.237	72	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	352942	3.882	281447	3.882	125	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	406912	14.96	443625	14.97	92	50 - 200	-0.010	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23D0136-01	File ID:	05022336ECD7.D
Sampled:	04/05/23 11:45	Prepared:	04/18/23 11:37	Analyzed:	05/02/23 23:28
Solids:	49.34	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0328	Sequence:	SLE0029		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.365	8.378	0.013	22497.5	37.7	29.6
	* 2	8.268	8.284	0.016	9704.75	50.8	
Aroclor 1254	1	9.255	9.275	0.02	32510.8	63.0	15.8
	* 2	9.408	9.429	0.021	24293	73.8	
Aroclor 1260	1	11.001	11.01983	0.0188	21222.4	45.5	16.3
	* 2	11.61	11.62633	0.0163	20311	53.6	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23D0136-02	File ID:	05022337ECD7.D
Sampled:	04/05/23 12:15	Prepared:	04/18/23 11:37	Analyzed:	05/02/23 23:49
Solids:	49.62	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0328	Sequence:	SLE0029		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.365	8.378	0.013	18369.25	30.0	36.1
	* 2	8.268	8.284	0.016	8354	43.2	
Aroclor 1254	1	9.255	9.275	0.02	26410.4	51.6	18.1
	* 2	9.408	9.429	0.021	20909.8	61.9	
Aroclor 1260	1	11.001	11.01983	0.0188	15926	35.5	17.
	* 2	11.61	11.62633	0.0163	20890.25	42.1	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23D0136-03	File ID:	05022340ECD7.D
Sampled:	04/05/23 16:05	Prepared:	04/18/23 11:37	Analyzed:	05/03/23 00:51
Solids:	44.31	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0328	Sequence:	SLE0029		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.365	8.378	0.013	22159.5	36.3	37.
	* 2	8.268	8.284	0.016	10515.5	52.8	
Aroclor 1254	1	9.255	9.275	0.02	31828	61.8	21.3
	* 2	9.408	9.429	0.021	25459.2	76.5	
Aroclor 1260	1	11.002	11.01983	0.0178	21187.6	45.9	18.9
	* 2	11.61	11.62633	0.0163	20874.25	55.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23D0136-04	File ID:	05022341ECD7.D
Sampled:	04/05/23 16:30	Prepared:	04/18/23 11:37	Analyzed:	05/03/23 01:12
Solids:	49.02	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLD0328	Sequence:	SLE0029		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.366	8.378	0.012	20257	33.3	22.9
	* 2	8.269	8.284	0.015	8039.25	41.9	
Aroclor 1254	1	9.257	9.275	0.018	28493.4	55.8	11.3
	* 2	9.409	9.429	0.02	21239.4	62.5	
Aroclor 1260	1	11.002	11.01983	0.0178	19756.4	43.0	18.
	* 2	11.61	11.62633	0.0163	19536.25	51.5	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/18/23 11:37	12	365	05/02/23 23:28	14	40	
LDW23-SC1804 23D0136-02	04/05/23 12:15	04/06/23 10:30	04/18/23 11:37	12	365	05/02/23 23:49	15	40	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/18/23 11:37	12	365	05/03/23 00:51	15	40	
LDW23-SC1803 23D0136-04	04/05/23 16:30	04/06/23 10:30	04/18/23 11:37	12	365	05/03/23 01:12	15	40	
Matrix Spike BLD0328-MS1	04/05/23 12:15	04/06/23 10:30	04/18/23 11:37	12	365	05/03/23 00:10	15	40	
Matrix Spike Dup BLD0328-MSD1	04/05/23 12:15	04/06/23 10:30	04/18/23 11:37	12	365	05/03/23 00:31	15	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

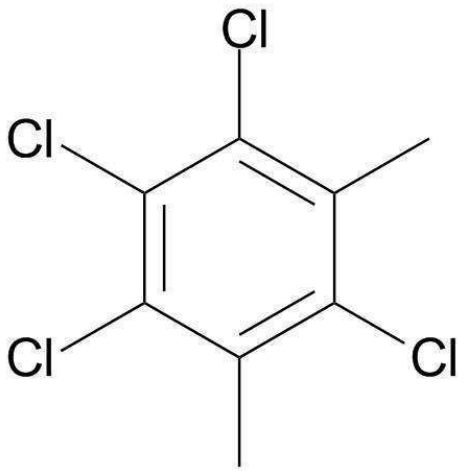
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

EXPIRED
Accustandard

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

2,

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/264480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101461
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL13053
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.246%

I09808
Recd. JP
02/24/20

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova Certified Reference Materials

Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111110613_us

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

J004466
Rec'd
06/18/21

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Certified Reference Materials

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

J006467 JR
read
06/18/21

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470
Description: Aroclor 1242
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14018
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

J006468
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Certicate No. 2427.02

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101471	**Lot Number:**	CL15384
Description:	Aroclor 1248	**Certification Date:**	June 19, 2020
Storage:	4 °C	**Expiration Date:**	June 30, 2028
Provided As:	1 mL in 2 mL Ampoule in Isooctane		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

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Reed, JR
06/18/21

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2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101474
Description: Aroclor 1262
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL11330
Certification Date: May 15, 2015
Expiration Date: April 30, 2023
Revision Date: April 2, 2018

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

J 00647
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06/18/21

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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

J006472
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06/18/21

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Reference Material Producer
Certificate No. 2427.02

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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova®
Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 JR
Reed
02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MJBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

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CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15355

Order Number: CB014770

Date Shipped: 4/14/2022

AirBill No(s): 519204140499

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

K003635
K003636

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0152	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0153	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM

ANACORTES OUTFALL

04/14/2022

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time 1400 04/14/2022	Received by: (Signature)	Date/Time 04/15/22 10:25
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Report No. 00, 9/11/2014

SMP Version 3.3

PUGET SOUND SEDIMENT REFERENCE MATERIAL
QATS LABORATORY INSTRUCTIONS FOR
HRGC/HRMS CDD/CDF/CB CONGENER AND GC/ECD AROCLOR ANALYSIS

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocols or your contract, disregard these instructions.

APPLICATION: For the analysis of CDD/CDF and CB Congener analytes using project-specified HRGC/HRMS methods, and Aroclors using project-specified GC/ECD methods.

CAUTION: Read instructions carefully before opening bottles and proceeding with the analyses.

Contains CDD/CDF, CB Congener, and/or Aroclors
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a Puget Sound (Washington State) Sediment Reference Material (SRM) set for chlorinated dibenzo-p-dioxins/chlorinated dibenzofurans (CDD/CDF), and/or chlorinated biphenyl (CB) congener analysis using project-specified high resolution gas chromatography/ high resolution mass spectrometry (HRGC/HRMS) methods. This SRM is also suitable for Aroclors analysis using project-specified gas chromatography/electron capture detection (GC/ECD) methods. This set consists of one (1) or more bottles, each with approximately 30 grams of Puget Sound SRM containing CDD/CDF, CB Congener, and/or Aroclor analytes. Check the chain-of-custody record to determine the number of bottles provided for CDD/CDF, CB Congener, and/or Aroclor analysis. None of the bottles are to be opened until SRM preparation/analysis is to occur.

CAUTION: The SRM could contain compounds that are light sensitive and should be protected from light during storage. Store the SRM at ≤ 6° C, preferably at < 0° C, until SRM preparation and analysis is to occur. Allow the bottle(s) to reach ambient temperature before opening.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

The SRM is to be analyzed as described in the project-specified methods employed for the analysis of CDD/CDF and/or CB Congener analytes using HRGC/HRMS instrumentation and/or Aroclors using GC/ECD instrumentation. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the project-specified methods, or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The SRM contains CDD/CDF, CB Congener, and Aroclor analytes which are known or suspected to have severe health effects. Employing appropriate safety precautions, this SRM is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The SRM should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials. When calculating the concentrations of analytes, use 0% as the soil moisture content.

Allow the bottle(s) to reach ambient temperature before opening and removing gravimetric amounts for sample preparation. To begin the extraction and analysis procedure, break the seal and open the bottle carefully. Weigh out the appropriate aliquot for extraction and analysis as prescribed in the project-specified methods (typically 10 grams for HRGC/HRMS methods and 30 grams for GC/ECD methods), or in accordance with your contract.

Proceed immediately with the extraction and analysis as described in the project-specified methods or your contract.

(E) *REPORTING*

Report the results for the prepared SRM as received.

Report the analytical results for the SRM to EPA or other appropriate Agency, using the format and other instructions for submission of data packages as specified in your contract.

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL12975
Certification Date: November 19, 2018
Expiration Date: October 31, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K5829

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Certificate No. 2427.02

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Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
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Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106I3_US

Certificate of Analysis

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Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ISO17025 Cert No.
AT-1937

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1804

Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 A	File ID:	23050928
Sampled:	04/05/23 11:45	Prepared:	04/25/23 14:15	Analyzed:	05/10/23 11:11
% Solids:	48.26	Preparation:	EPA 1613	Initial/Final:	20.74 g Wet / 20 uL
Result Basis:	Dry	Sequence:	SLE0060	Calibration:	GC00015
Batch:	BLD0657	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.701	0.655-0.886	0.110	0.999	1.56	ng/kg	
1746-01-6	2,3,7,8-TCDD	1	0.522	0.655-0.886	0.112	0.999	0.529	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.624	1.318-1.783	0.248	0.999	1.53	ng/kg	
57117-31-4	2,3,4,7,8-PeCDF	1	1.628	1.318-1.783	0.228	0.999	2.98	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.580	1.318-1.783	0.300	0.999	2.41	ng/kg	
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.303	1.054-1.426	0.135	0.999	10.8	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.298	1.054-1.426	0.136	0.999	2.93	ng/kg	
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.302	1.054-1.426	0.138	0.999	4.19	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.204	1.054-1.426	0.152	0.999	2.38	ng/kg	
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.179	1.054-1.426	0.271	0.999	2.61	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.252	1.054-1.426	0.263	0.999	12.1	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.283	1.054-1.426	0.294	0.999	5.86	ng/kg	
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.017	0.893-1.208	0.274	0.999	91.7	ng/kg	
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.013	0.893-1.208	0.362	0.999	7.71	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.040	0.893-1.208	0.656	2.50	396	ng/kg	
39001-02-0	OCDF	1	0.897	0.757-1.024	0.349	2.50	383	ng/kg	
3268-87-9	OCDD	1	0.868	0.757-1.024	0.574	9.99	3380	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	24.3	ng/kg	
41903-57-5	Total TCDD	1	0.000			0.999	3.92	ng/kg	
30402-15-4	Total PeCDF	1	0.000			0.999	26.4	ng/kg	
36088-22-9	Total PeCDD	1	0.000			0.999	5.30	ng/kg	
55684-94-1	Total HxCDF	1	0.000			0.999	119	ng/kg	
34465-46-8	Total HxCDD	1	0.000			0.999	88.4	ng/kg	
38998-75-3	Total HpCDF	1	0.000			0.999	388	ng/kg	
37871-00-4	Total HpCDD	1	0.000			0.999	880	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 14.20

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 14.20

LDW23-SS1804

Form 2

ORGANIC ANALYSIS DATA SHEET

EPA 1613B

Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23D0136-01	File ID:	23050928
Sampled:	04/05/23 11:45	Prepared:	04/25/23 14:15	Analyzed:	05/10/23 11:11
Solids Wt%:	48.26	Preparation:	EPA 1613	Initial/Final:	20.74 g / 20 uL
Result Basis:	Dry	Sequence:	SLE0060	Calibration:	GC00015
Batch:	BLD0657	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.780	0.655-0.886	0.111	90.1	24 - 169 %	
13C12-2,3,7,8-TCDD		0.790	0.655-0.886	0.143	96.4	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.537	1.318-1.783	0.296	104	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.534	1.318-1.783	0.329	108	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.629	1.318-1.783	0.174	97.4	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.504	0.434-0.587	0.171	78.3	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.507	0.434-0.587	0.145	69.3	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.509	0.434-0.587	0.177	78.7	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.506	0.434-0.587	0.215	85.5	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.302	1.054-1.426	0.138	85.6	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.234	1.054-1.426	0.119	75.7	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.453	0.374-0.506	0.192	91.8	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.442	0.374-0.506	0.224	97.8	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.079	0.893-1.208	0.233	86.9	23 - 140 %	
13C12-OCDD		0.894	0.757-1.024	0.211	112	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.051	96.6	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:20:59 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.704	1.001	2.173e3	3.102e3	0.702	0.701	0.770	849	1027	2.81e4	4.13e4	33.1	40.2	NO	bd	bd	0.783
12378-PeCDF	29.855	1.001	2.740e3	1.687e3	0.679	1.624	1.550	1759	1873	4.20e4	2.50e4	23.9	13.4	NO	bb	bb	0.768
23478-PeCDF	31.192	1.001	5.744e3	3.528e3	0.786	1.628	1.550	1759	1873	9.07e4	5.37e4	51.5	28.7	NO	dd	bb	1.493
123478-HxCDF	34.813	1.000	2.343e4	1.797e4	1.166	1.303	1.240	1333	1386	3.68e5	2.83e5	276.0	204.3	NO	dd	bd	5.382
234678-HxCDF	35.794	1.000	8.663e3	6.651e3	1.140	1.302	1.240	1333	1386	1.04e5	7.94e4	78.0	57.3	NO	bb	bb	2.096
123678-HxCDF	34.947	1.000	6.266e3	4.827e3	1.091	1.298	1.240	1333	1386	1.00e5	7.55e4	75.3	54.5	NO	dd	db	1.468
123789-HxCDF	36.819	1.000	4.244e3	3.526e3	1.137	1.204	1.240	1333	1386	6.39e4	5.36e4	48.0	38.7	NO	bd	bd	1.190
1234678-HpCDF	38.690	1.000	1.376e5	1.353e5	1.003	1.017	1.050	2484	2124	2.37e6	2.33e6	955.2	1097.2	NO	bb	bb	45.897
1234789-HpCDF	40.919	1.000	1.004e4	9.911e3	0.953	1.013	1.050	2484	2124	1.56e5	1.41e5	62.9	66.6	NO	bb	bb	3.857
OCDF	45.107	1.005	4.361e5	4.861e5	0.778	0.897	0.890	1939	1458	5.45e6	6.04e6	2809.9	4143.5	NO	bb	bb	191.811
2378-TCDD	26.339	1.000	7.618e2	1.459e3	1.149	0.522	0.770	1373	1064	1.06e4	2.42e4	7.7	22.7	YES	bd	bd	0.265
12378-PeCDD	31.449	1.001	4.004e3	2.534e3	1.022	1.580	1.550	1734	2337	5.20e4	3.69e4	30.0	15.8	NO	bb	bb	1.206
123478-HxCDD	35.950	1.001	4.318e3	3.664e3	0.996	1.179	1.240	2255	2247	6.60e4	6.50e4	29.3	28.9	NO	bd	bd	1.305
123678-HxCDD	36.061	1.000	2.121e4	1.694e4	1.001	1.252	1.240	2255	2247	3.47e5	2.84e5	153.7	126.2	NO	dd	dd	6.036
123789-HxCDD	36.451	1.011	9.313e3	7.258e3	0.907	1.283	1.240	2255	2247	1.54e5	1.25e5	68.4	55.8	NO	bd	bb	2.932
1234678-HpCDD	40.183	1.001	5.531e5	5.317e5	1.039	1.040	1.050	5228	4119	8.66e6	8.32e6	1655.8	2020.9	NO	bb	bb	198.189
OCDD	44.869	1.000	4.469e6	5.148e6	0.920	0.868	0.890	3251	3359	5.74e7	6.69e7	17659.3	19917.7	NO	bb	bb	1691.349
13C-2378-TCDF	25.689	1.007	4.206e5	5.393e5	1.620	0.780	0.770	1654	1362	6.37e6	8.11e6	3854.1	5955.3	NO	bb	bb	90.149
13C-12378-PeCDF	29.833	1.169	5.144e5	3.348e5	1.240	1.537	1.550	2848	3299	7.83e6	5.18e6	2749.9	1569.9	NO	bb	bb	104.166
13C-23478-PeCDF	31.170	1.221	4.782e5	3.116e5	1.118	1.534	1.550	2848	3299	7.36e6	4.85e6	2583.5	1470.5	NO	bb	bb	107.513
13C-123478-HxCDF	34.802	0.955	2.212e5	4.385e5	1.168	0.504	0.510	1573	2277	3.48e6	6.97e6	2212.6	3062.0	NO	bd	bd	78.290
13C-123678-HxCDF	34.936	0.959	2.329e5	4.597e5	1.386	0.507	0.510	1573	2277	3.68e6	7.22e6	2340.2	3171.8	NO	db	db	69.269
13C-234678-HxCDF	35.805	0.983	2.161e5	4.250e5	1.129	0.509	0.510	1573	2277	3.50e6	6.86e6	2225.5	3013.0	NO	bb	bb	78.717
13C-123789-HxCDF	36.830	1.011	1.931e5	3.813e5	0.932	0.506	0.510	1573	2277	3.16e6	6.28e6	2011.3	2759.2	NO	bb	bb	85.480
13C-1234678-HpCDF	38.679	1.062	1.848e5	4.080e5	0.895	0.453	0.440	1487	1822	3.14e6	6.97e6	2111.0	3828.8	NO	bb	bb	91.824
13C-1234789-HpCDF	40.896	1.123	1.665e5	3.763e5	0.770	0.442	0.440	1487	1822	2.45e6	5.40e6	1650.4	2962.8	NO	bb	bb	97.772
13C-1234-TCDD	25.520	0.000	2.876e5	3.696e5	1.000	0.778	0.770	1910	836	4.39e6	5.68e6	2296.4	6791.9	NO	bb	bb	100.000
13C-2378-TCDD	26.325	1.032	3.222e5	4.077e5	1.152	0.790	0.770	1910	836	4.99e6	6.28e6	2615.0	7508.9	NO	bb	bb	96.371
13C-12378-PeCDD	31.427	1.232	3.287e5	2.018e5	0.829	1.629	1.550	1221	1197	4.93e6	3.04e6	4034.1	2539.4	NO	bb	bd	97.385
13C-123478-HxCDD	35.928	0.986	3.476e5	2.669e5	0.995	1.302	1.240	1502	1142	5.66e6	4.46e6	3764.9	3902.7	NO	bd	bd	85.627
13C-123678-HxCDD	36.050	0.990	3.488e5	2.827e5	1.157	1.234	1.240	1502	1142	5.66e6	4.46e6	3767.1	3899.7	NO	db	db	75.692
13C-1234678-HpCDD	40.161	1.102	2.734e5	2.534e5	0.840	1.079	1.050	2199	1568	4.26e6	4.02e6	1939.5	2561.6	NO	bb	bb	86.946
13C-OCDD	44.860	1.231	5.834e5	6.528e5	0.767	0.894	0.890	1351	1759	7.09e6	7.76e6	5246.3	4410.9	NO	bb	bd	223.343
13C-123789-HxCDD	36.429	0.000	4.012e5	3.200e5	1.000	1.254	1.240	1502	1142	6.41e6	5.13e6	4266.7	4489.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.032	3.270e5		1.288			1104		5.00e6		4529.4			bb		38.641

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:20:59 Pacific Daylight Time

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.201	0.864	1.155e3	1.313e3	0.802	0.879	0.770	849	1027	1.69e4	2.48e4	19.9	24.2	NO	bb	bb	0.321
1289-TCDF					0.678		0.770	849	1027								
13468-PECDF					1.246		1.550	932	846								
12389-PECDF					0.496		1.550	1759	1873								
123468-HXCDF	33.142	0.952	1.956e4	1.561e4	1.169	1.253	1.240	1333	1386	2.96e5	2.47e5	221.9	178.6	NO	bb	bb	4.560
1368-TCDD	23.472	0.892	2.629e3	3.274e3	1.015	0.803	0.770	1373	1064	4.18e4	5.30e4	30.4	49.9	NO	bb	bb	0.796
1289-TCDD					0.909		0.770	1373	1064								
12479-PECDD	28.775	0.916	7.424e3	5.702e3	2.301	1.302	1.550	1734	2337	7.50e4	5.59e4	43.3	23.9	YES	bb	bb	1.075
12389-PECDD					1.184		1.550	1734	2337								
124679-HXCDD	33.922	0.944	4.699e4	3.605e4	1.115	1.303	1.240	2255	2247	7.53e5	5.78e5	333.9	257.2	NO	bb	bb	12.115
1234679-HPCDD	39.136	0.975	7.386e5	7.117e5	1.137	1.038	1.050	5228	4119	1.25e7	1.20e7	2397.1	2916.9	NO	bb	bb	242.159
Total-tetrafurans			3.508e4		0.727			849		4.98e5							12.155
Total-penta1			3.389e4					932		5.18e5							7.205
Total-pentafurans			2.069e4		0.654			1759		3.02e5							5.995
Total-hexafurans			2.451e5		1.141			1333		3.73e6							59.610
Total-heptafurans			5.497e5		0.978			2484		9.35e6							193.977
Total-Furans			1.321e6		0.922			849		1.98e7							470.753
Total-tetradioxins			6.355e3		1.024			1373		9.03e4							1.961
Total-pentadioxins			1.087e4		1.502			1734		1.60e5							2.651
Total-hexadioxins			1.570e5		1.005			2255		2.27e6							44.239
Total-heptadioxins			1.292e6		1.088			5228		2.12e7							440.349
Total-Dioxins			5.935e6		1.130			1373		8.11e7							2180.548
Total-TEQ			7.256e6					1373		1.01e8							2651.301
FUNCTION1 PFK			7.083e6					244314		1.71e7							
FUNCTION2 PFK			1.938e6					174540		5.96e6							0.000
FUNCTION3 PFK			4.840e6					230472		2.09e7							0.000
FUNCTION4 PFK			0.000e0					143012		0.00e0							
FUNCTION5 PFK			0.000e0					138198		0.00e0							
FUNCTION1 HXCD...			8.089e3					1261		1.34e5							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.949e3					1115		3.52e4							0.000
FUNCTION3 OCDPE			3.519e2					498		5.96e3							0.000
FUNCTION4 NCDPE			8.652e4					1383		1.52e6							0.000
FUNCTION5 DCDPE			1.004e3					608		9.27e3							0.000

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.95	2.239e3	2.894e3	0.727	0.77	0.77	35.9	YES	NO	db	db	0.736
2	Total-tetrafurans	23.81	1.462e3	2.029e3	0.727	0.72	0.77	27.3	YES	NO	dd	dd	0.500
3	Total-tetrafurans	23.54	8.949e2	1.288e3	0.727	0.69	0.77	20.0	YES	NO	db	dd	0.313
4	Total-tetrafurans	23.36	7.682e3	1.134e4	0.727	0.68	0.77	119.5	YES	NO	dd	dd	2.726
5	Total-tetrafurans	23.05	3.256e3	4.761e3	0.727	0.68	0.77	55.3	YES	NO	bd	bd	1.149
6	1368-TCDF	22.20	1.155e3	1.313e3	0.802	0.88	0.77	19.9	YES	NO	bb	bb	0.321
7	Total-tetrafurans	27.34	6.651e2	9.275e2	0.727	0.72	0.77	13.0	YES	NO	bb	db	0.228
8	Total-tetrafurans	27.10	3.365e2	3.859e2	0.727	0.87	0.77	6.6	YES	NO	bb	bd	0.104
9	Total-tetrafurans	26.76	1.664e2	2.043e2	0.727	0.81	0.77	3.4	YES	NO	bb	bb	0.053
10	Total-tetrafurans	25.84	1.585e3	2.320e3	0.727	0.68	0.77	31.5	YES	NO	dd	dd	0.560
11	2378-TCDF	25.70	2.173e3	3.102e3	0.702	0.70	0.77	33.1	YES	NO	bd	bd	0.783
12	Total-tetrafurans	25.46	6.412e3	9.170e3	0.727	0.70	0.77	91.7	YES	NO	bb	bb	2.233
13	Total-tetrafurans	25.19	8.200e2	1.176e3	0.727	0.70	0.77	17.4	YES	NO	bb	db	0.286
14	Total-tetrafurans	25.01	1.438e3	1.863e3	0.727	0.77	0.77	23.9	YES	NO	bb	bd	0.473
15	Total-tetrafurans	24.79	1.790e3	2.613e3	0.727	0.69	0.77	32.8	YES	NO	bb	bb	0.631
16	Total-tetrafurans	24.60	3.007e3	4.396e3	0.727	0.68	0.77	55.1	YES	NO	db	db	1.061

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.13	3.389e4	2.222e4		1.53	1.55	555.7	YES	NO	bb	bb	7.205

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	29.39	7.717e2	4.443e2	0.654	1.74	1.55	6.2	YES	NO	dd	bd	0.227
2	Total-pentafurans	28.62	4.666e3	3.408e3	0.654	1.37	1.55	33.9	YES	NO	dd	bd	1.507
3	23478-PeCDF	31.19	5.744e3	3.528e3	0.786	1.63	1.55	51.5	YES	NO	dd	bb	1.493
4	Total-pentafurans	30.91	2.675e3	1.532e3	0.654	1.75	1.55	19.8	YES	NO	bd	bd	0.785
5	Total-pentafurans	30.06	4.094e3	2.421e3	0.654	1.69	1.55	36.1	YES	NO	bd	bb	1.216
6	12378-PeCDF	29.86	2.740e3	1.687e3	0.679	1.62	1.55	23.9	YES	NO	bb	bb	0.768

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.35	6.083e4	4.813e4	1.141	1.26	1.24	675.5	YES	NO	bb	bb	14.882
2	123468-HXCDF	33.14	1.956e4	1.561e4	1.169	1.25	1.24	221.9	YES	NO	bb	bb	4.560
3	Total-hexafurans	36.93	5.080e2	4.447e2	1.141	1.14	1.24	6.8	YES	NO	db	dd	0.130
4	123789-HxCDF	36.82	4.244e3	3.526e3	1.137	1.20	1.24	48.0	YES	NO	bd	bd	1.190
5	Total-hexafurans	36.31	3.424e2	2.712e2	1.141	1.26	1.24	3.6	YES	NO	bb	bb	0.084
6	234678-HxCDF	35.79	8.663e3	6.651e3	1.140	1.30	1.24	78.0	YES	NO	bb	bb	2.096
7	123678-HxCDF	34.95	6.266e3	4.827e3	1.091	1.30	1.24	75.3	YES	NO	dd	db	1.468
8	123478-HxCDF	34.81	2.343e4	1.797e4	1.166	1.30	1.24	276.0	YES	NO	dd	bd	5.382
9	Total-hexafurans	34.66	3.035e3	2.396e3	1.141	1.27	1.24	34.6	YES	NO	bd	bb	0.742
10	Total-hexafurans	34.19	1.165e5	9.303e4	1.141	1.25	1.24	1354.7	YES	NO	bb	bb	28.617
11	Total-hexafurans	33.90	1.747e3	1.610e3	1.141	1.08	1.24	21.2	YES	NO	bb	bb	0.458

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.92	1.004e4	9.911e3	0.953	1.01	1.05	62.9	YES	NO	bb	bb	3.857
2	Total-heptafurans	39.35	3.998e5	3.965e5	0.978	1.01	1.05	2735.1	YES	NO	bb	bb	143.396
3	Total-heptafurans	39.10	2.294e3	2.304e3	0.978	1.00	1.05	13.0	YES	NO	bb	bb	0.828
4	1234678-HpCDF	38.69	1.376e5	1.353e5	1.003	1.02	1.05	955.2	YES	NO	bb	bb	45.897

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.95	2.239e3	2.894e3	0.727	0.77	0.77	35.9	YES	NO	db	db	0.736
2	Total-tetrafurans	23.81	1.462e3	2.029e3	0.727	0.72	0.77	27.3	YES	NO	dd	dd	0.500
3	Total-tetrafurans	23.54	8.949e2	1.288e3	0.727	0.69	0.77	20.0	YES	NO	db	dd	0.313
4	Total-tetrafurans	23.36	7.682e3	1.134e4	0.727	0.68	0.77	119.5	YES	NO	dd	dd	2.726
5	Total-tetrafurans	23.05	3.256e3	4.761e3	0.727	0.68	0.77	55.3	YES	NO	bd	bd	1.149
6	1368-TCDF	22.20	1.155e3	1.313e3	0.802	0.88	0.77	19.9	YES	NO	bb	bb	0.321
7	Total-tetrafurans	27.34	6.651e2	9.275e2	0.727	0.72	0.77	13.0	YES	NO	bb	db	0.228
8	Total-tetrafurans	27.10	3.365e2	3.859e2	0.727	0.87	0.77	6.6	YES	NO	bb	bd	0.104
9	Total-tetrafurans	26.76	1.664e2	2.043e2	0.727	0.81	0.77	3.4	YES	NO	bb	bb	0.053
10	Total-tetrafurans	25.84	1.585e3	2.320e3	0.727	0.68	0.77	31.5	YES	NO	dd	dd	0.560
11	2378-TCDF	25.70	2.173e3	3.102e3	0.702	0.70	0.77	33.1	YES	NO	bd	bd	0.783
12	Total-tetrafurans	25.46	6.412e3	9.170e3	0.727	0.70	0.77	91.7	YES	NO	bb	bb	2.233
13	Total-tetrafurans	25.19	8.200e2	1.176e3	0.727	0.70	0.77	17.4	YES	NO	bb	db	0.286
14	Total-tetrafurans	25.01	1.438e3	1.863e3	0.727	0.77	0.77	23.9	YES	NO	bb	bd	0.473
15	Total-tetrafurans	24.79	1.790e3	2.613e3	0.727	0.69	0.77	32.8	YES	NO	bb	bb	0.631
16	Total-tetrafurans	24.60	3.007e3	4.396e3	0.727	0.68	0.77	55.1	YES	NO	db	db	1.061
17	Total-pentafurans	29.39	7.717e2	4.443e2	0.654	1.74	1.55	6.2	YES	NO	dd	bd	0.227
18	Total-pentafurans	28.62	4.666e3	3.408e3	0.654	1.37	1.55	33.9	YES	NO	dd	bd	1.507
19	23478-PeCDF	31.19	5.744e3	3.528e3	0.786	1.63	1.55	51.5	YES	NO	dd	bb	1.493
20	Total-pentafurans	30.91	2.675e3	1.532e3	0.654	1.75	1.55	19.8	YES	NO	bd	bd	0.785
21	Total-pentafurans	30.06	4.094e3	2.421e3	0.654	1.69	1.55	36.1	YES	NO	bd	bb	1.216
22	12378-PeCDF	29.86	2.740e3	1.687e3	0.679	1.62	1.55	23.9	YES	NO	bb	bb	0.768
23	Total-hexafurans	33.35	6.083e4	4.813e4	1.141	1.26	1.24	675.5	YES	NO	bb	bb	14.882
24	123468-HXCDF	33.14	1.956e4	1.561e4	1.169	1.25	1.24	221.9	YES	NO	bb	bb	4.560
25	Total-hexafurans	36.93	5.080e2	4.447e2	1.141	1.14	1.24	6.8	YES	NO	db	dd	0.130
26	123789-HxCDF	36.82	4.244e3	3.526e3	1.137	1.20	1.24	48.0	YES	NO	bd	bd	1.190
27	Total-hexafurans	36.31	3.424e2	2.712e2	1.141	1.26	1.24	3.6	YES	NO	bb	bb	0.084
28	234678-HxCDF	35.79	8.663e3	6.651e3	1.140	1.30	1.24	78.0	YES	NO	bb	bb	2.096
29	123678-HxCDF	34.95	6.266e3	4.827e3	1.091	1.30	1.24	75.3	YES	NO	dd	db	1.468
30	123478-HxCDF	34.81	2.343e4	1.797e4	1.166	1.30	1.24	276.0	YES	NO	dd	bd	5.382
31	Total-hexafurans	34.66	3.035e3	2.396e3	1.141	1.27	1.24	34.6	YES	NO	bd	bb	0.742
32	Total-hexafurans	34.19	1.165e5	9.303e4	1.141	1.25	1.24	1354.7	YES	NO	bb	bb	28.617
33	Total-hexafurans	33.90	1.747e3	1.610e3	1.141	1.08	1.24	21.2	YES	NO	bb	bb	0.458
34	1234789-HpCDF	40.92	1.004e4	9.911e3	0.953	1.01	1.05	62.9	YES	NO	bb	bb	3.857
35	Total-heptafurans	39.35	3.998e5	3.965e5	0.978	1.01	1.05	2735.1	YES	NO	bb	bb	143.396
36	Total-heptafurans	39.10	2.294e3	2.304e3	0.978	1.00	1.05	13.0	YES	NO	bb	bb	0.828
37	1234678-HpCDF	38.69	1.376e5	1.353e5	1.003	1.02	1.05	955.2	YES	NO	bb	bb	45.897

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	OCDF	45.11	4.361e5	4.861e5	0.778	0.90	0.89	2809.9	YES	NO	bb	bb	191.811
39	Total-penta1	27.13	3.389e4	2.222e4		1.53	1.55	555.7	YES	NO	bb	bb	7.205

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.47	9.986e2	1.316e3	1.024	0.76	0.77	9.6	YES	NO	bd	bd	0.310
2	Total-tetradioxins	23.74	1.494e3	2.169e3	1.024	0.69	0.77	17.5	YES	NO	bb	dd	0.490
3	1368-TCDD	23.47	2.629e3	3.274e3	1.015	0.80	0.77	30.4	YES	NO	bb	bb	0.796
4	Total-tetradioxins	25.99	1.234e3	1.492e3	1.024	0.83	0.77	8.2	YES	NO	db	bb	0.365

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.45	4.004e3	2.534e3	1.022	1.58	1.55	30.0	YES	NO	bb	bb	1.206
2	Total-pentadioxins	30.07	3.100e3	1.854e3	1.502	1.67	1.55	26.2	YES	NO	bd	bd	0.622
3	Total-pentadioxins	29.86	3.768e3	2.793e3	1.502	1.35	1.55	36.0	YES	NO	bb	bb	0.823

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.17	6.662e3	5.584e3	1.005	1.19	1.24	49.5	YES	NO	db	db	1.956
2	Total-hexadioxins	35.06	5.534e4	4.529e4	1.005	1.22	1.24	276.0	YES	NO	bd	bd	16.076
3	Total-hexadioxins	34.69	1.027e4	8.479e3	1.005	1.21	1.24	73.0	YES	NO	bb	bb	2.996
4	124679-HXCDD	33.92	4.699e4	3.605e4	1.115	1.30	1.24	333.9	YES	NO	bb	bb	12.115
5	123789-HxCDD	36.45	9.313e3	7.258e3	0.907	1.28	1.24	68.4	YES	NO	bd	bb	2.932
6	Total-hexadioxins	36.22	2.901e3	2.247e3	1.005	1.29	1.24	22.1	YES	NO	dd	db	0.822
7	123678-HxCDD	36.06	2.121e4	1.694e4	1.001	1.25	1.24	153.7	YES	NO	dd	dd	6.036
8	123478-HxCDD	35.95	4.318e3	3.664e3	0.996	1.18	1.24	29.3	YES	NO	bd	bd	1.305

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.14	7.386e5	7.117e5	1.137	1.04	1.05	2397.1	YES	NO	bb	bb	242.159
2	1234678-HpCDD	40.18	5.531e5	5.317e5	1.039	1.04	1.05	1655.8	YES	NO	bb	bb	198.189

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.47	9.986e2	1.316e3	1.024	0.76	0.77	9.6	YES	NO	bd	bd	0.310
2	Total-tetradioxins	23.74	1.494e3	2.169e3	1.024	0.69	0.77	17.5	YES	NO	bb	dd	0.490
3	1368-TCDD	23.47	2.629e3	3.274e3	1.015	0.80	0.77	30.4	YES	NO	bb	bb	0.796
4	Total-tetradioxins	25.99	1.234e3	1.492e3	1.024	0.83	0.77	8.2	YES	NO	db	bb	0.365
5	12378-PeCDD	31.45	4.004e3	2.534e3	1.022	1.58	1.55	30.0	YES	NO	bb	bb	1.206
6	Total-pentadioxins	30.07	3.100e3	1.854e3	1.502	1.67	1.55	26.2	YES	NO	bd	bd	0.622
7	Total-pentadioxins	29.86	3.768e3	2.793e3	1.502	1.35	1.55	36.0	YES	NO	bb	bb	0.823
8	Total-hexadioxins	35.17	6.662e3	5.584e3	1.005	1.19	1.24	49.5	YES	NO	db	db	1.956
9	Total-hexadioxins	35.06	5.534e4	4.529e4	1.005	1.22	1.24	276.0	YES	NO	bd	bd	16.076
10	Total-hexadioxins	34.69	1.027e4	8.479e3	1.005	1.21	1.24	73.0	YES	NO	bb	bb	2.996
11	124679-HXCDD	33.92	4.699e4	3.605e4	1.115	1.30	1.24	333.9	YES	NO	bb	bb	12.115
12	123789-HxCDD	36.45	9.313e3	7.258e3	0.907	1.28	1.24	68.4	YES	NO	bd	bb	2.932
13	Total-hexadioxins	36.22	2.901e3	2.247e3	1.005	1.29	1.24	22.1	YES	NO	dd	db	0.822
14	123678-HxCDD	36.06	2.121e4	1.694e4	1.001	1.25	1.24	153.7	YES	NO	dd	dd	6.036
15	123478-HxCDD	35.95	4.318e3	3.664e3	0.996	1.18	1.24	29.3	YES	NO	bd	bd	1.305
16	1234679-HPCDD	39.14	7.386e5	7.117e5	1.137	1.04	1.05	2397.1	YES	NO	bb	bb	242.159
17	1234678-HpCDD	40.18	5.531e5	5.317e5	1.039	1.04	1.05	1655.8	YES	NO	bb	bb	198.189
18	OCDD	44.87	4.469e6	5.148e6	0.920	0.87	0.89	17659.3	YES	NO	bb	bb	1691.3...

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.95	2.239e3	2.894e3	0.727	0.77	0.77	35.9	YES	NO	db	db	0.736
2	Total-tetrafurans	23.81	1.462e3	2.029e3	0.727	0.72	0.77	27.3	YES	NO	dd	dd	0.500
3	Total-tetrafurans	23.54	8.949e2	1.288e3	0.727	0.69	0.77	20.0	YES	NO	db	dd	0.313
4	Total-tetrafurans	23.36	7.682e3	1.134e4	0.727	0.68	0.77	119.5	YES	NO	dd	dd	2.726
5	Total-tetrafurans	23.05	3.256e3	4.761e3	0.727	0.68	0.77	55.3	YES	NO	bd	bd	1.149
6	1368-TCDF	22.20	1.155e3	1.313e3	0.802	0.88	0.77	19.9	YES	NO	bb	bb	0.321
7	Total-tetrafurans	27.34	6.651e2	9.275e2	0.727	0.72	0.77	13.0	YES	NO	bb	db	0.228
8	Total-tetrafurans	27.10	3.365e2	3.859e2	0.727	0.87	0.77	6.6	YES	NO	bb	bd	0.104
9	Total-tetrafurans	26.76	1.664e2	2.043e2	0.727	0.81	0.77	3.4	YES	NO	bb	bb	0.053
10	Total-tetrafurans	25.84	1.585e3	2.320e3	0.727	0.68	0.77	31.5	YES	NO	dd	dd	0.560
11	2378-TCDF	25.70	2.173e3	3.102e3	0.702	0.70	0.77	33.1	YES	NO	bd	bd	0.783
12	Total-tetrafurans	25.46	6.412e3	9.170e3	0.727	0.70	0.77	91.7	YES	NO	bb	bb	2.233
13	Total-tetrafurans	25.19	8.200e2	1.176e3	0.727	0.70	0.77	17.4	YES	NO	bb	db	0.286
14	Total-tetrafurans	25.01	1.438e3	1.863e3	0.727	0.77	0.77	23.9	YES	NO	bb	bd	0.473
15	Total-tetrafurans	24.79	1.790e3	2.613e3	0.727	0.69	0.77	32.8	YES	NO	bb	bb	0.631
16	Total-tetrafurans	24.60	3.007e3	4.396e3	0.727	0.68	0.77	55.1	YES	NO	db	db	1.061
17	Total-pentafurans	29.39	7.717e2	4.443e2	0.654	1.74	1.55	6.2	YES	NO	dd	bd	0.227
18	Total-pentafurans	28.62	4.666e3	3.408e3	0.654	1.37	1.55	33.9	YES	NO	dd	bd	1.507
19	23478-PeCDF	31.19	5.744e3	3.528e3	0.786	1.63	1.55	51.5	YES	NO	dd	bb	1.493
20	Total-pentafurans	30.91	2.675e3	1.532e3	0.654	1.75	1.55	19.8	YES	NO	bd	bd	0.785
21	Total-pentafurans	30.06	4.094e3	2.421e3	0.654	1.69	1.55	36.1	YES	NO	bd	bb	1.216
22	12378-PeCDF	29.86	2.740e3	1.687e3	0.679	1.62	1.55	23.9	YES	NO	bb	bb	0.768
23	Total-hexafurans	33.35	6.083e4	4.813e4	1.141	1.26	1.24	675.5	YES	NO	bb	bb	14.882
24	123468-HXCDF	33.14	1.956e4	1.561e4	1.169	1.25	1.24	221.9	YES	NO	bb	bb	4.560
25	Total-hexafurans	36.93	5.080e2	4.447e2	1.141	1.14	1.24	6.8	YES	NO	db	dd	0.130
26	123789-HxCDF	36.82	4.244e3	3.526e3	1.137	1.20	1.24	48.0	YES	NO	bd	bd	1.190
27	Total-hexafurans	36.31	3.424e2	2.712e2	1.141	1.26	1.24	3.6	YES	NO	bb	bb	0.084
28	234678-HxCDF	35.79	8.663e3	6.651e3	1.140	1.30	1.24	78.0	YES	NO	bb	bb	2.096
29	123678-HxCDF	34.95	6.266e3	4.827e3	1.091	1.30	1.24	75.3	YES	NO	dd	db	1.468
30	123478-HxCDF	34.81	2.343e4	1.797e4	1.166	1.30	1.24	276.0	YES	NO	dd	bd	5.382
31	Total-hexafurans	34.66	3.035e3	2.396e3	1.141	1.27	1.24	34.6	YES	NO	bd	bb	0.742
32	Total-hexafurans	34.19	1.165e5	9.303e4	1.141	1.25	1.24	1354.7	YES	NO	bb	bb	28.617
33	Total-hexafurans	33.90	1.747e3	1.610e3	1.141	1.08	1.24	21.2	YES	NO	bb	bb	0.458
34	1234789-HpCDF	40.92	1.004e4	9.911e3	0.953	1.01	1.05	62.9	YES	NO	bb	bb	3.857
35	Total-heptafurans	39.35	3.998e5	3.965e5	0.978	1.01	1.05	2735.1	YES	NO	bb	bb	143.396
36	Total-heptafurans	39.10	2.294e3	2.304e3	0.978	1.00	1.05	13.0	YES	NO	bb	bb	0.828
37	1234678-HpCDF	38.69	1.376e5	1.353e5	1.003	1.02	1.05	955.2	YES	NO	bb	bb	45.897

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	OCDF	45.11	4.361e5	4.861e5	0.778	0.90	0.89	2809.9	YES	NO	bb	bb	191.811
39	Total-penta1	27.13	3.389e4	2.222e4		1.53	1.55	555.7	YES	NO	bb	bb	7.205
40	Total-tetradioxins	24.47	9.986e2	1.316e3	1.024	0.76	0.77	9.6	YES	NO	bd	bd	0.310
41	Total-tetradioxins	23.74	1.494e3	2.169e3	1.024	0.69	0.77	17.5	YES	NO	bb	dd	0.490
42	1368-TCDD	23.47	2.629e3	3.274e3	1.015	0.80	0.77	30.4	YES	NO	bb	bb	0.796
43	Total-tetradioxins	25.99	1.234e3	1.492e3	1.024	0.83	0.77	8.2	YES	NO	db	bb	0.365
44	12378-PeCDD	31.45	4.004e3	2.534e3	1.022	1.58	1.55	30.0	YES	NO	bb	bb	1.206
45	Total-pentadioxins	30.07	3.100e3	1.854e3	1.502	1.67	1.55	26.2	YES	NO	bd	bd	0.622
46	Total-pentadioxins	29.86	3.768e3	2.793e3	1.502	1.35	1.55	36.0	YES	NO	bb	bb	0.823
47	Total-hexadioxins	35.17	6.662e3	5.584e3	1.005	1.19	1.24	49.5	YES	NO	db	db	1.956
48	Total-hexadioxins	35.06	5.534e4	4.529e4	1.005	1.22	1.24	276.0	YES	NO	bd	bd	16.076
49	Total-hexadioxins	34.69	1.027e4	8.479e3	1.005	1.21	1.24	73.0	YES	NO	bb	bb	2.996
50	124679-HXCDD	33.92	4.699e4	3.605e4	1.115	1.30	1.24	333.9	YES	NO	bb	bb	12.115
51	123789-HxCDD	36.45	9.313e3	7.258e3	0.907	1.28	1.24	68.4	YES	NO	bd	bb	2.932
52	Total-hexadioxins	36.22	2.901e3	2.247e3	1.005	1.29	1.24	22.1	YES	NO	dd	db	0.822
53	123678-HxCDD	36.06	2.121e4	1.694e4	1.001	1.25	1.24	153.7	YES	NO	dd	dd	6.036
54	123478-HxCDD	35.95	4.318e3	3.664e3	0.996	1.18	1.24	29.3	YES	NO	bd	bd	1.305
55	1234679-HPCDD	39.14	7.386e5	7.117e5	1.137	1.04	1.05	2397.1	YES	NO	bb	bb	242.159
56	1234678-HpCDD	40.18	5.531e5	5.317e5	1.039	1.04	1.05	1655.8	YES	NO	bb	bb	198.189
57	OCDD	44.87	4.469e6	5.148e6	0.920	0.87	0.89	17659.3	YES	NO	bb	bb	1691.3...

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.79	5.182e6					21.1	YES		db		
2	FUNCTION1 PFK	21.11	1.901e6					48.7	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.37	1.045e5					4.7	YES		bb		0.000
2	FUNCTION2 PFK	29.40	7.329e5					16.8	YES		bb		0.000
3	FUNCTION2 PFK	28.95	1.100e6					12.7	YES		bb		0.000

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.28	9.207e5					10.6	YES		bb		0.000
2	FUNCTION3 PFK	36.83	4.314e5					16.5	YES		db		0.000
3	FUNCTION3 PFK	36.57	1.806e6					19.7	YES		bd		0.000
4	FUNCTION3 PFK	36.22	5.287e5					11.6	YES		bb		0.000
5	FUNCTION3 PFK	35.67	3.372e4					3.8	YES		bb		0.000
6	FUNCTION3 PFK	35.57	2.058e5					12.2	YES		db		0.000
7	FUNCTION3 PFK	35.44	6.636e5					12.1	YES		bd		0.000
8	FUNCTION3 PFK	35.04	2.493e5					4.2	YES		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.87	3.554e3					47.8	YES		db		0.000
2	FUNCTION1 HXCD...	25.76	3.573e2					5.9	YES		dd		0.000
3	FUNCTION1 HXCD...	25.73	3.054e2					5.5	YES		bd		0.000
4	FUNCTION1 HXCD...	25.52	1.753e2					1.8	NO		bb		0.000
5	FUNCTION1 HXCD...	25.07	3.131e2					2.2	NO		db		0.000
6	FUNCTION1 HXCD...	24.84	1.262e2					1.3	NO		bd		0.000
7	FUNCTION1 HXCD...	24.79	1.921e2					3.4	YES		db		0.000
8	FUNCTION1 HXCD...	24.71	2.676e2					2.7	NO		dd		0.000
9	FUNCTION1 HXCD...	24.60	1.471e2					1.9	NO		dd		0.000
10	FUNCTION1 HXCD...	24.55	1.532e2					1.8	NO		dd		0.000
11	FUNCTION1 HXCD...	24.46	1.780e2					2.5	NO		bd		0.000
12	FUNCTION1 HXCD...	23.74	2.922e2					3.4	YES		bb		0.000
13	FUNCTION1 HXCD...	22.77	1.966e2					1.4	NO		db		0.000
14	FUNCTION1 HXCD...	22.61	9.327e1					1.3	NO		bd		0.000
15	FUNCTION1 HXCD...	22.27	5.165e2					6.2	YES		db		0.000
16	FUNCTION1 HXCD...	22.10	9.847e1					1.9	NO		bd		0.000
17	FUNCTION1 HXCD...	27.62	1.367e2					1.5	NO		bb		0.000
18	FUNCTION1 HXCD...	27.13	1.092e2					1.3	NO		bb		0.000
19	FUNCTION1 HXCD...	26.73	1.618e2					2.1	NO		bb		0.000
20	FUNCTION1 HXCD...	26.18	1.225e2					3.3	YES		db		0.000
21	FUNCTION1 HXCD...	26.08	5.924e2					7.4	YES		bd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.16	1.427e2					2.4	NO		dd		0.000
2	FUNCTION2 HPCD...	32.12	7.189e1					2.7	NO		bd		0.000
3	FUNCTION2 HPCD...	31.91	9.525e1					1.1	NO		bb		0.000
4	FUNCTION2 HPCD...	30.25	9.497e1					1.0	NO		bb		0.000
5	FUNCTION2 HPCD...	29.92	2.381e2					6.2	YES		db		0.000
6	FUNCTION2 HPCD...	29.83	3.050e2					4.4	YES		bd		0.000
7	FUNCTION2 HPCD...	29.21	1.185e2					1.3	NO		db		0.000
8	FUNCTION2 HPCD...	29.08	1.548e2					3.1	YES		dd		0.000
9	FUNCTION2 HPCD...	28.92	5.402e2					6.4	YES		bd		0.000
10	FUNCTION2 HPCD...	28.17	8.886e1					1.6	NO		bb		0.000
11	FUNCTION2 HPCD...	32.28	9.888e1					1.5	NO		db		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.95	1.256e2					3.8	YES		bb		0.000
2	FUNCTION3 OCDPE	33.06	2.263e2					8.2	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.78	2.013e2					3.4	YES		bb		0.000
2	FUNCTION4 NCDPE	38.69	1.350e2					2.4	NO		bb		0.000
3	FUNCTION4 NCDPE	38.36	8.618e4					1095.3	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.91	1.004e3					15.2	YES		bb		0.000

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Printed: Thursday, May 11, 2023 11:20:59 Pacific Daylight Time

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ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

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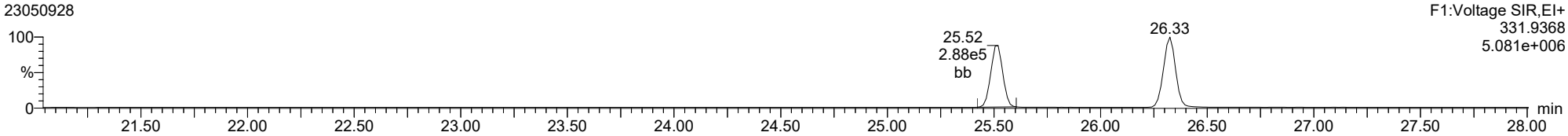

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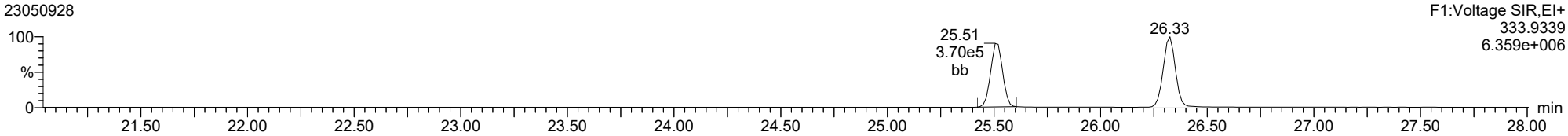

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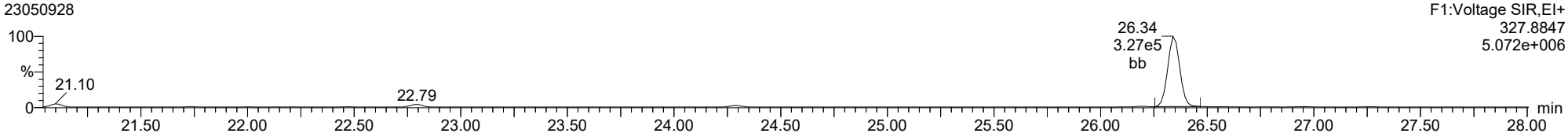

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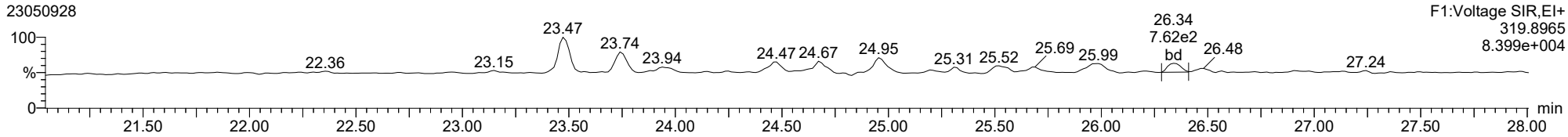

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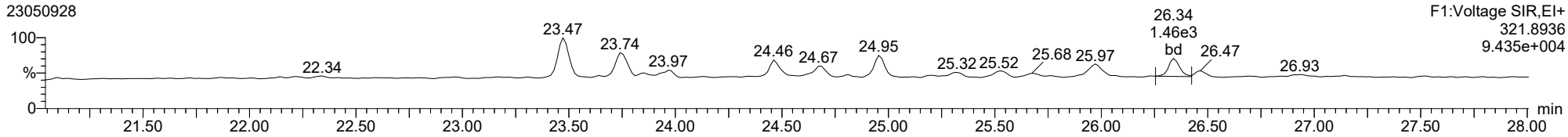

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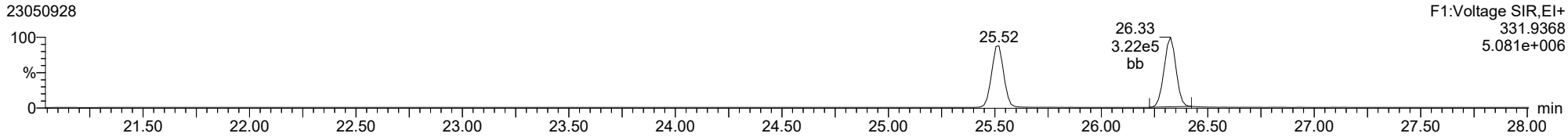

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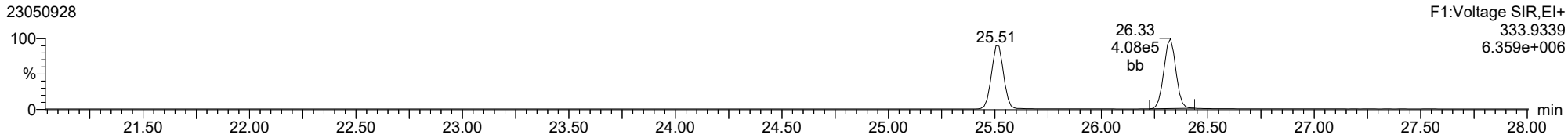

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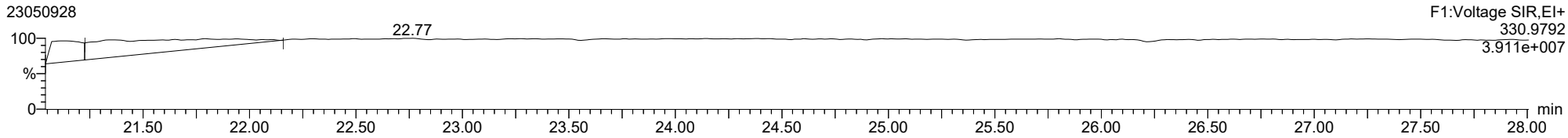

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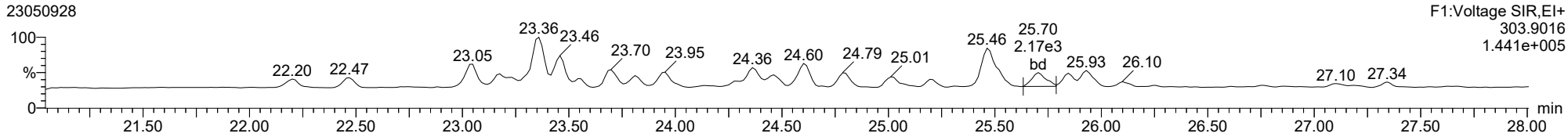

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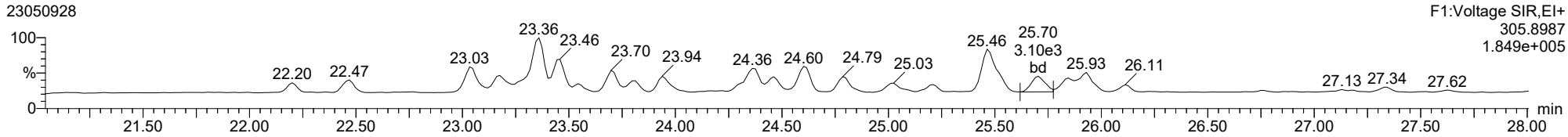

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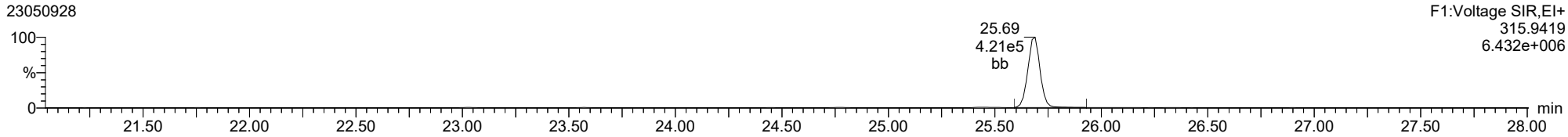

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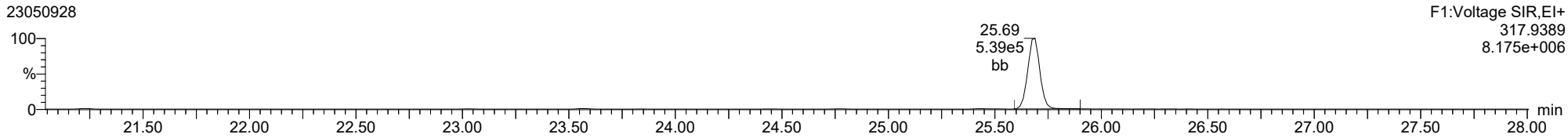

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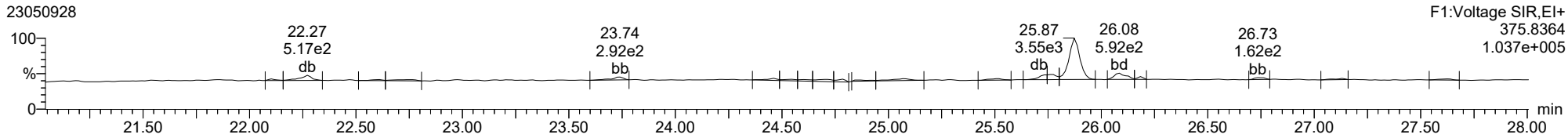

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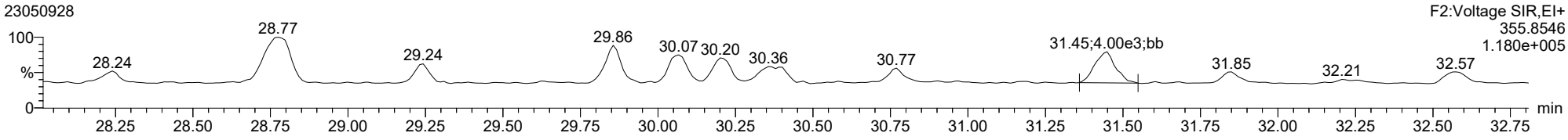
12378-PeCDD



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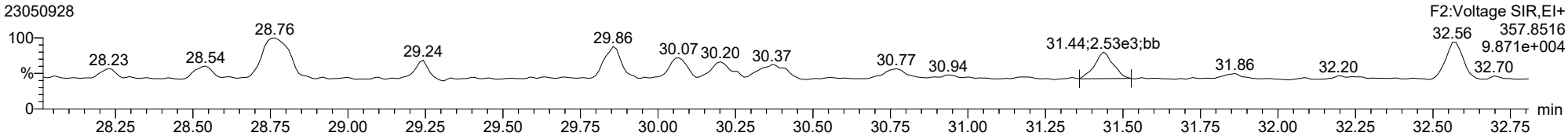

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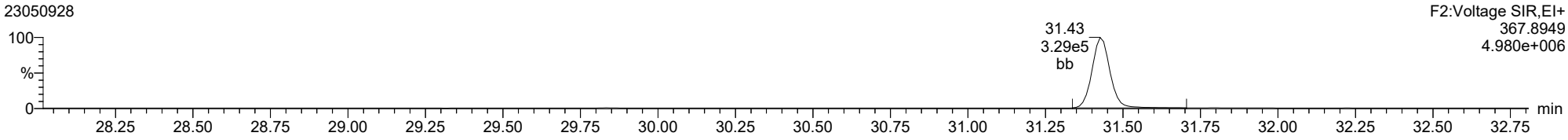

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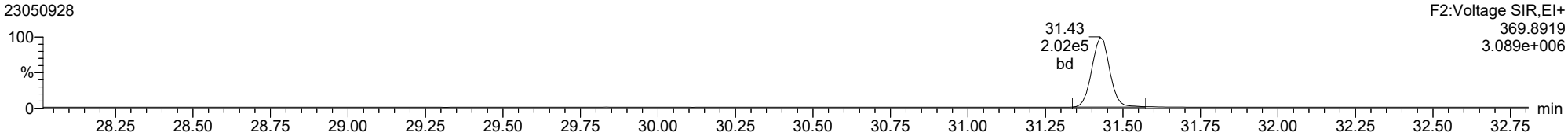
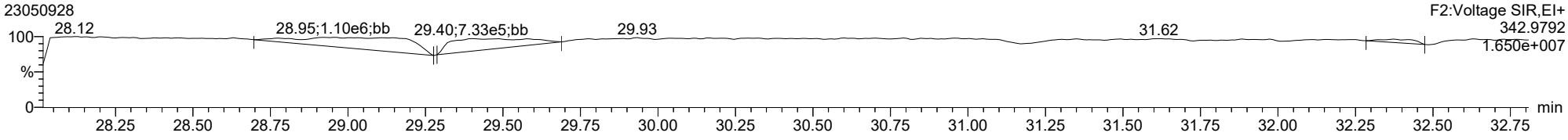


FUNCTION2 PFK



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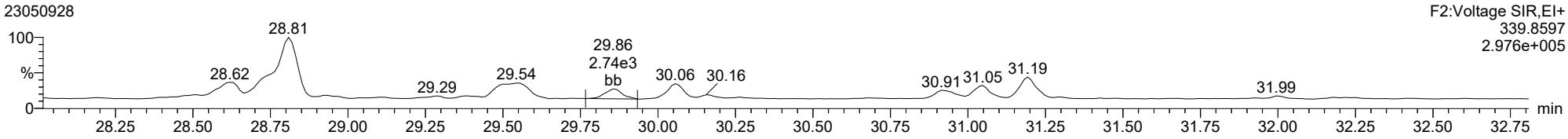

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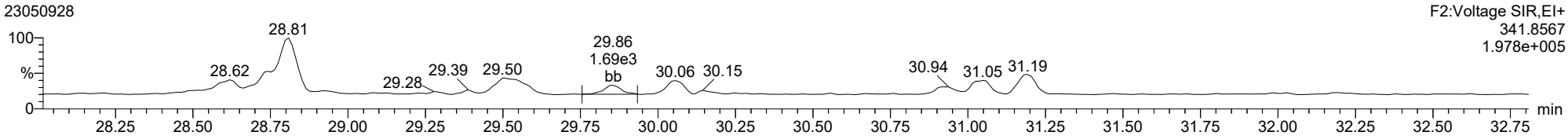

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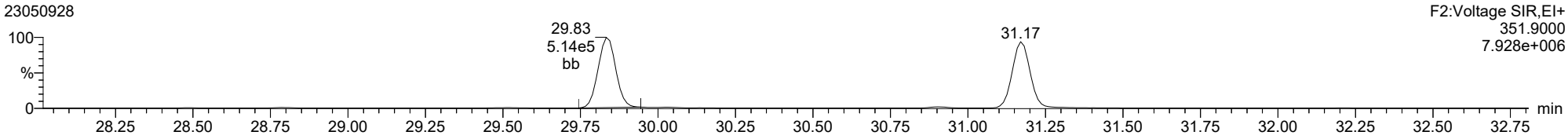

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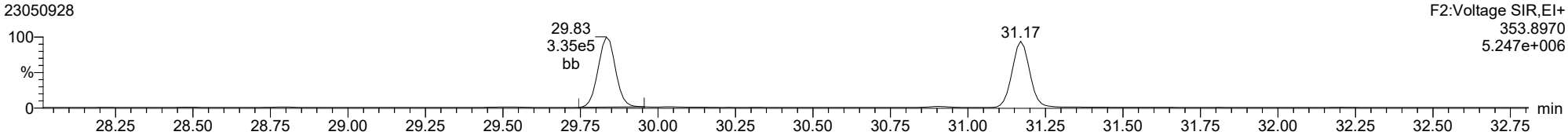

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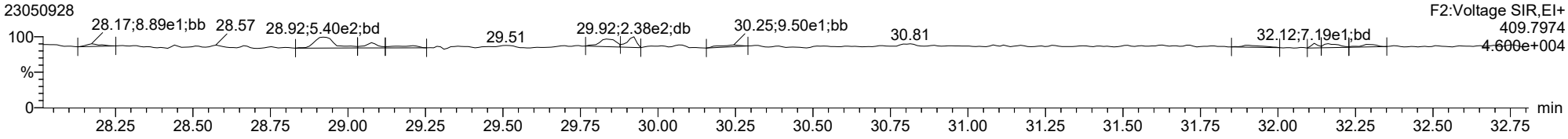

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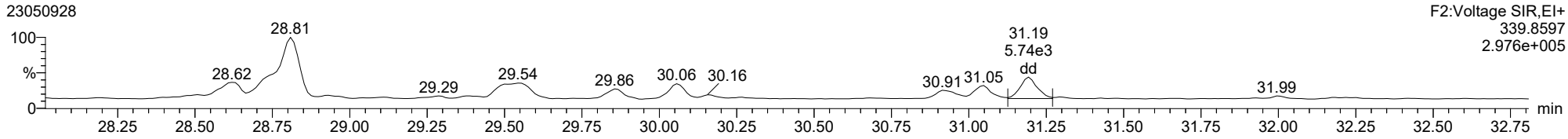

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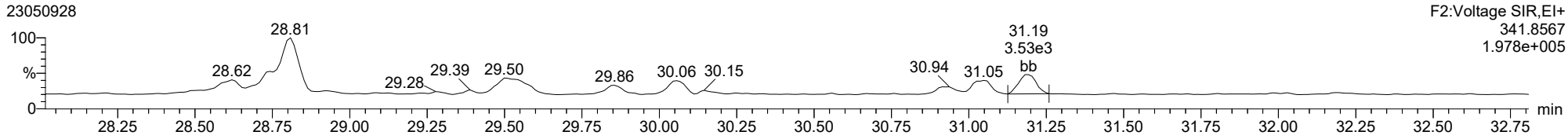

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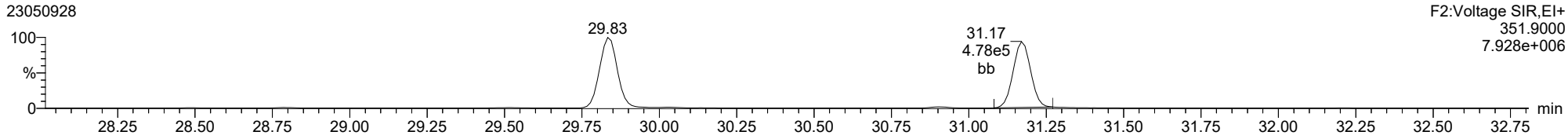

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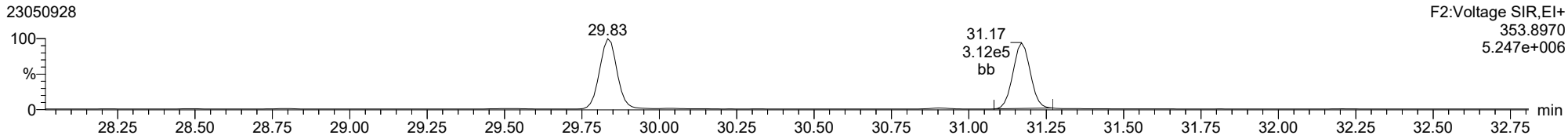

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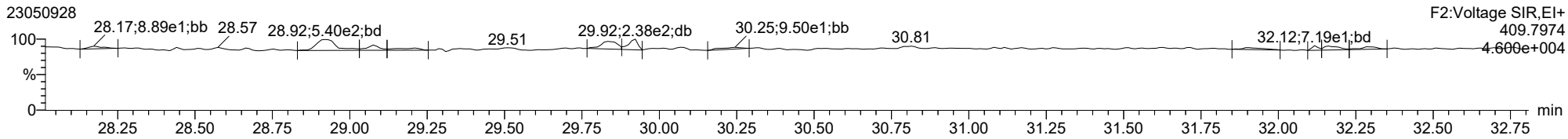

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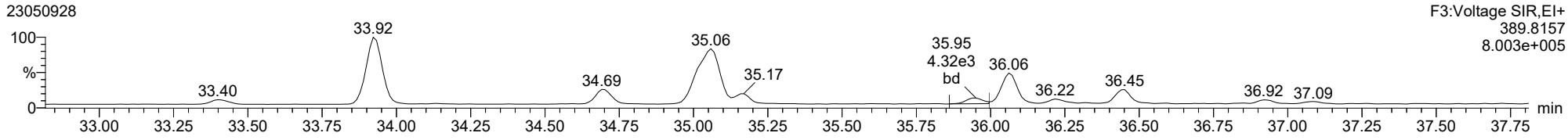

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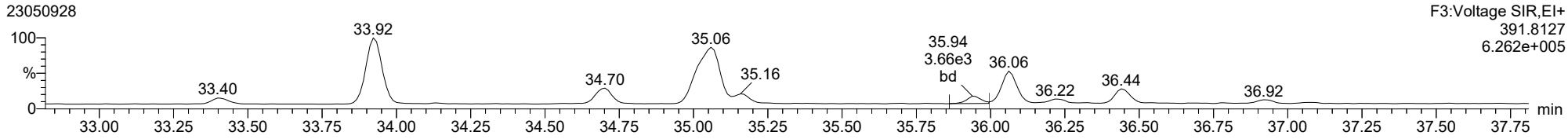

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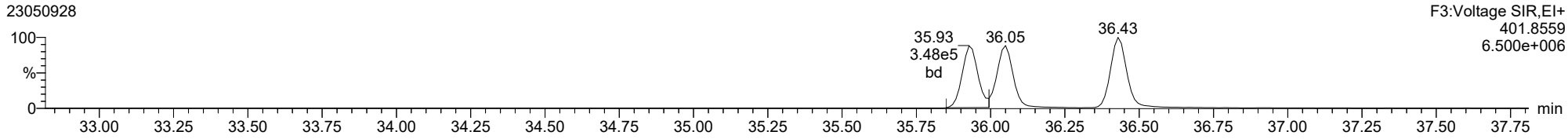

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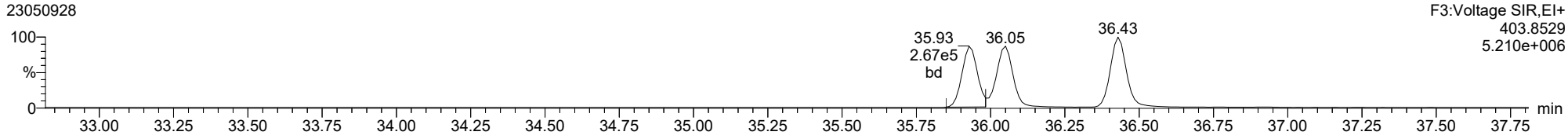

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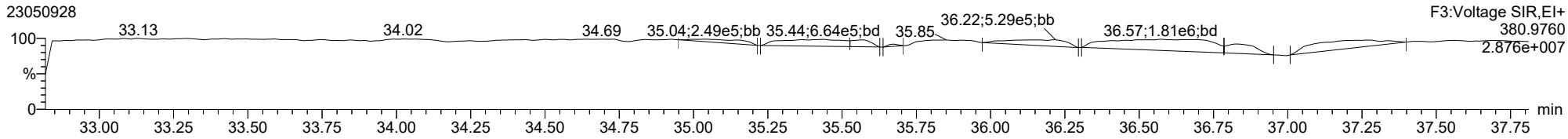

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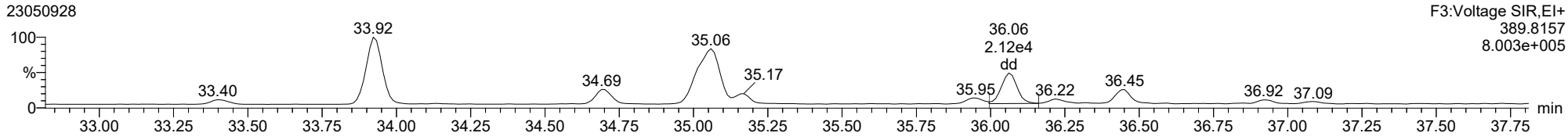

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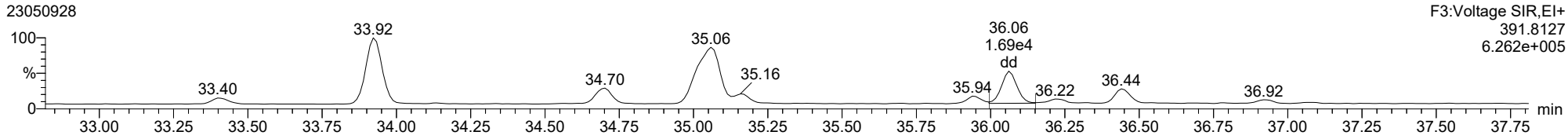

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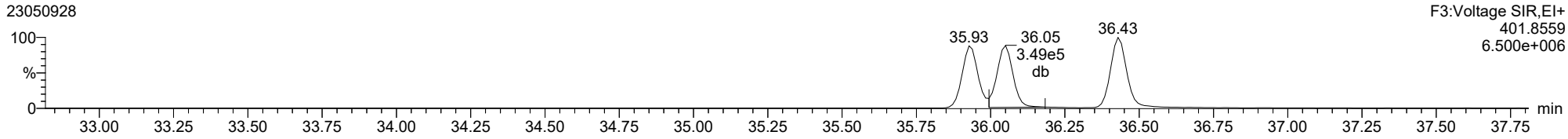

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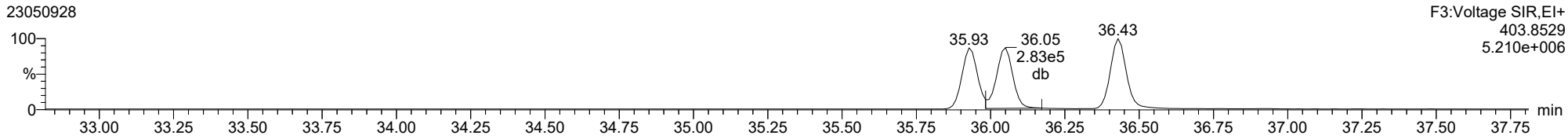

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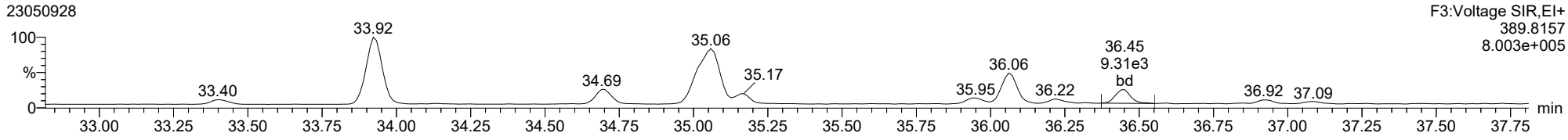

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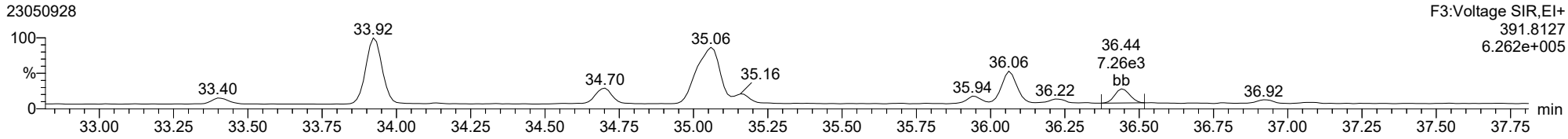

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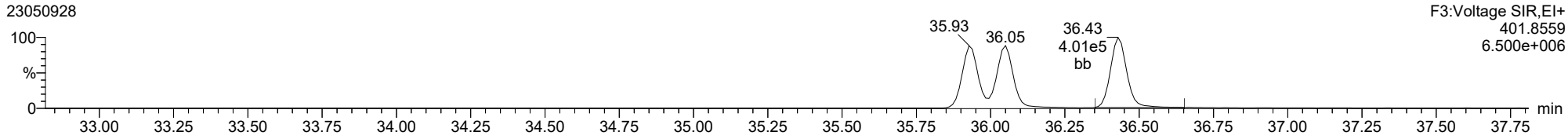

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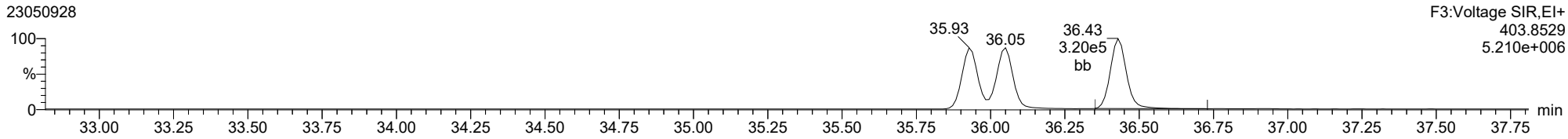

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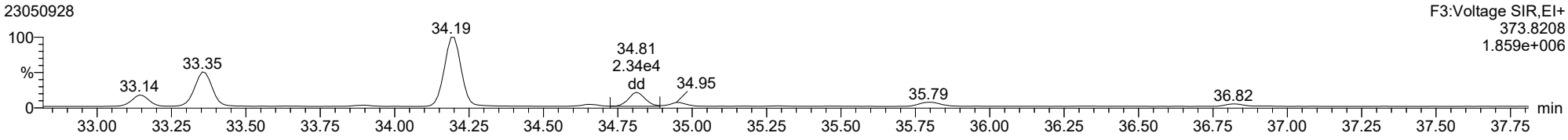

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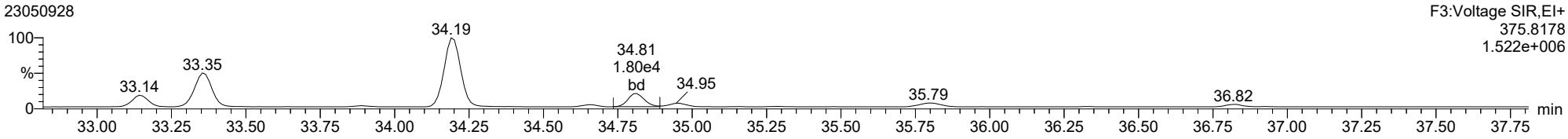

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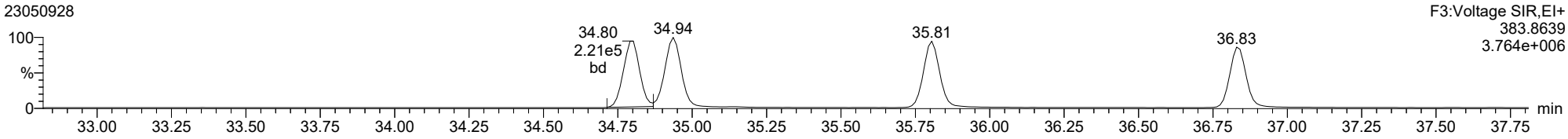

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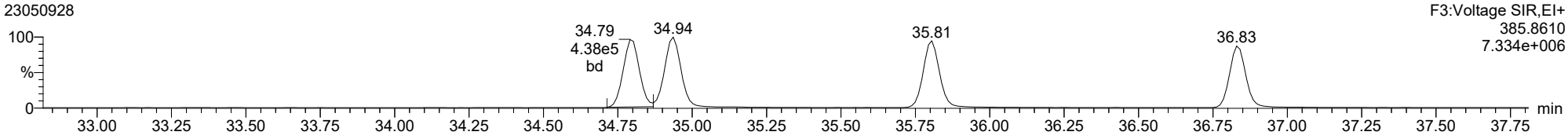

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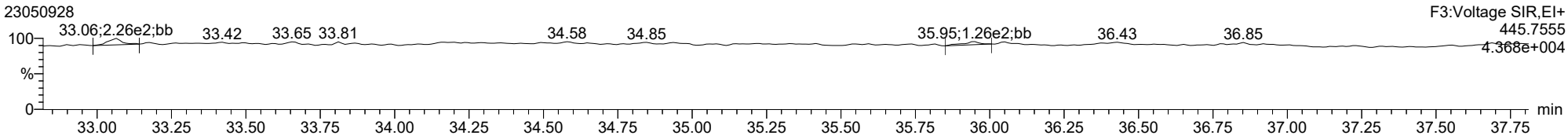

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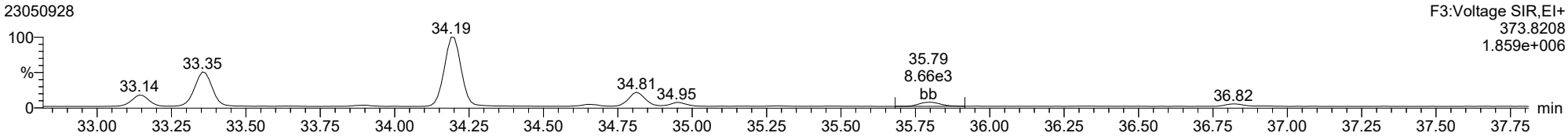

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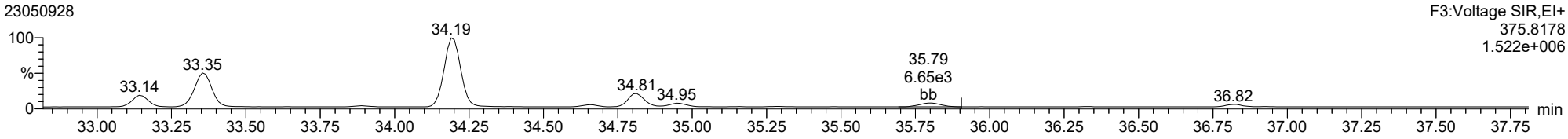

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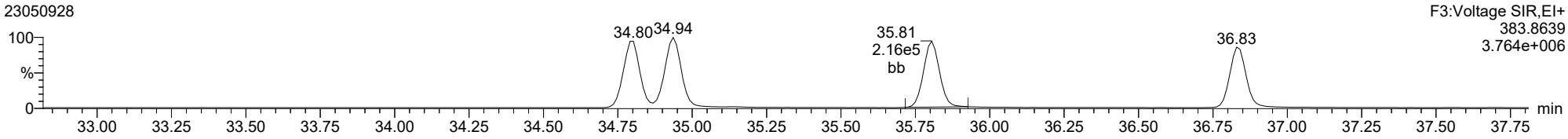

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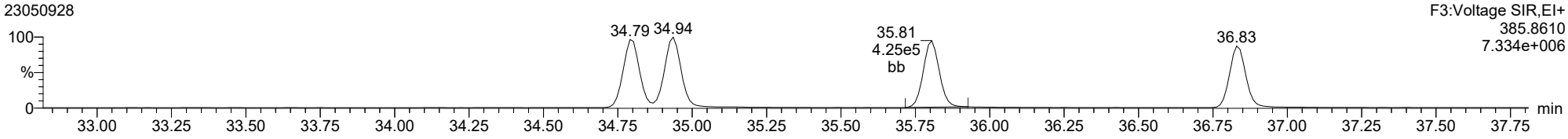

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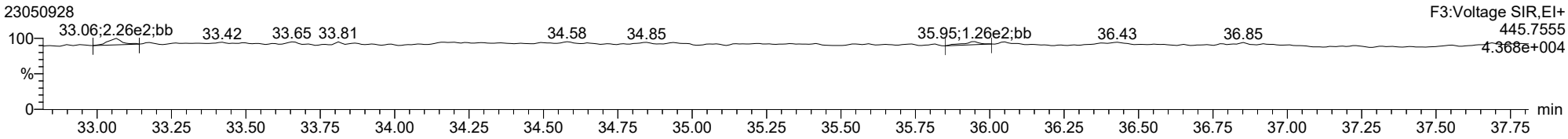

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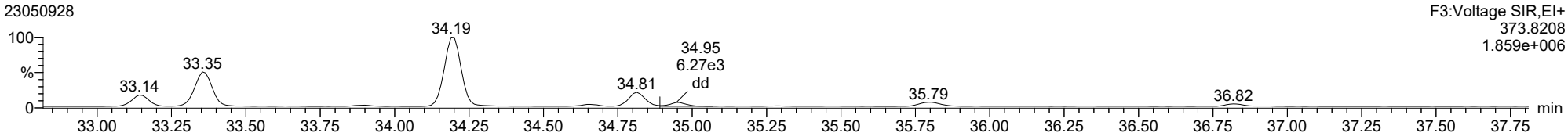

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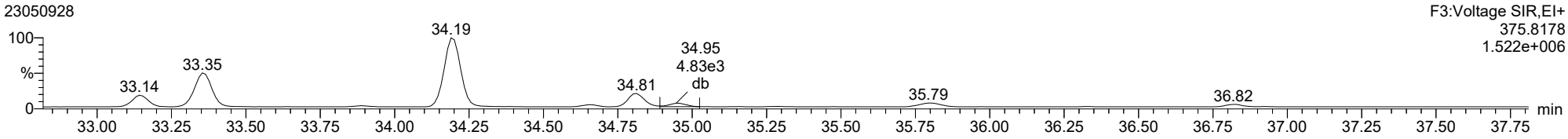

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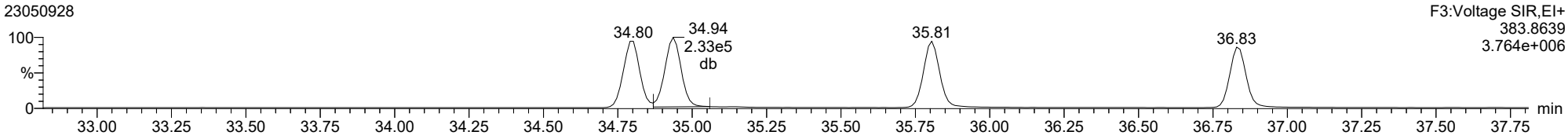

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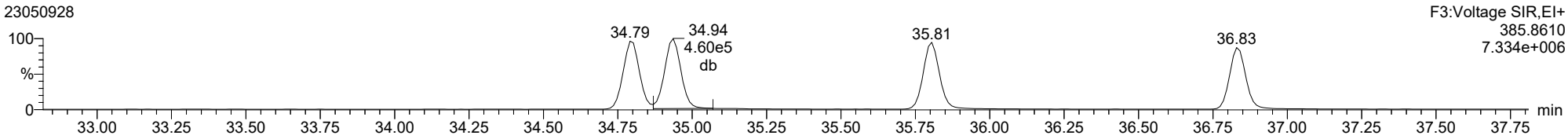

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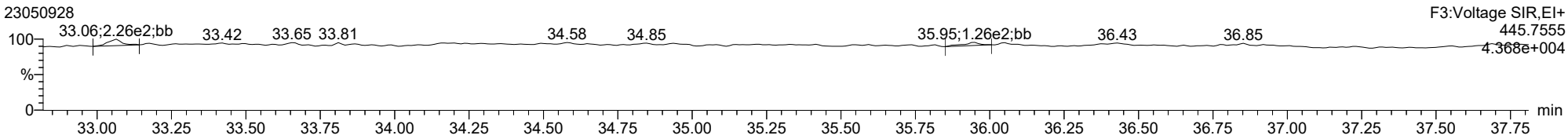

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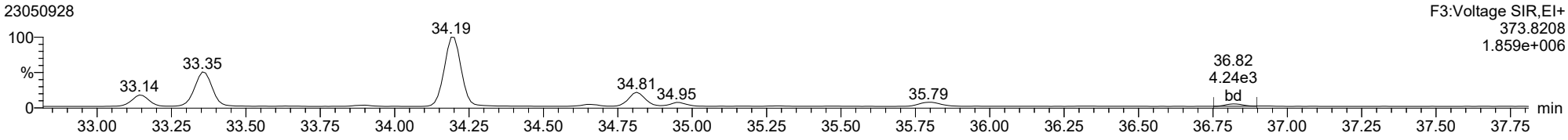

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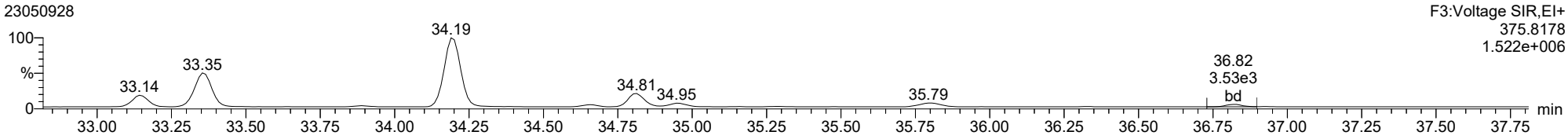

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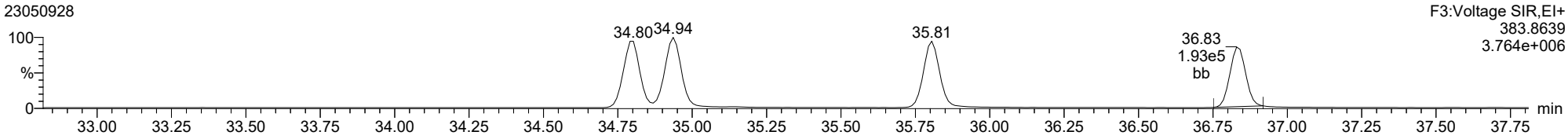

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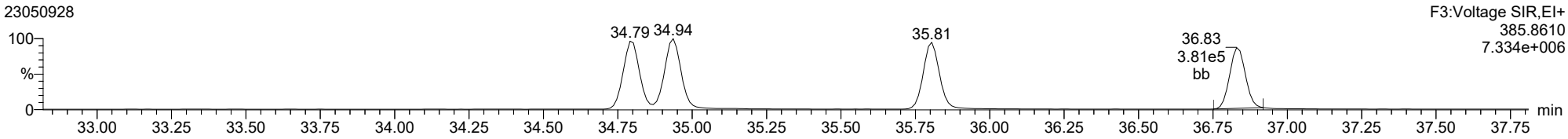

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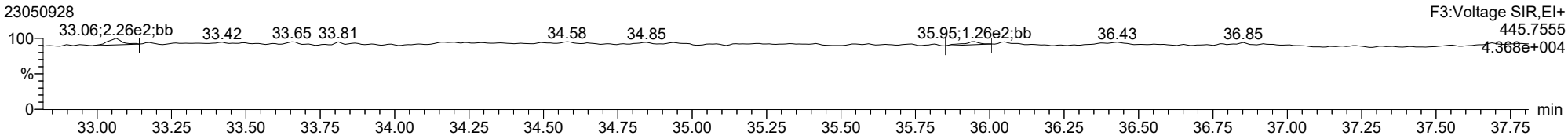

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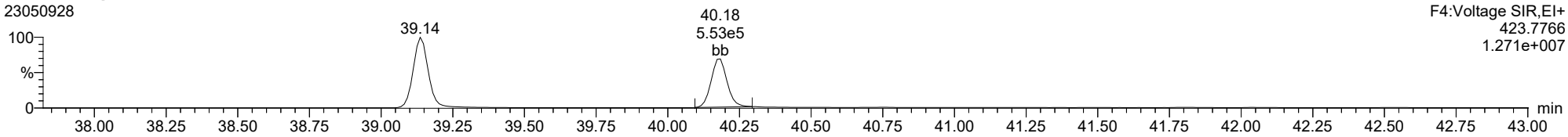

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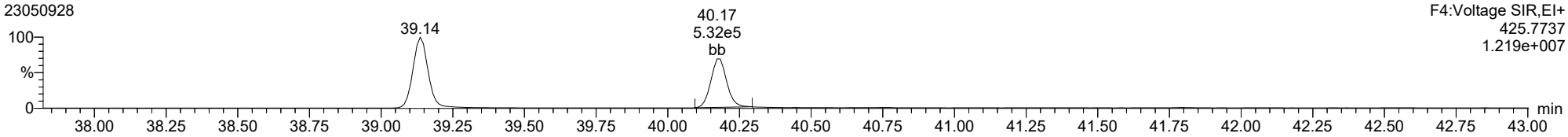

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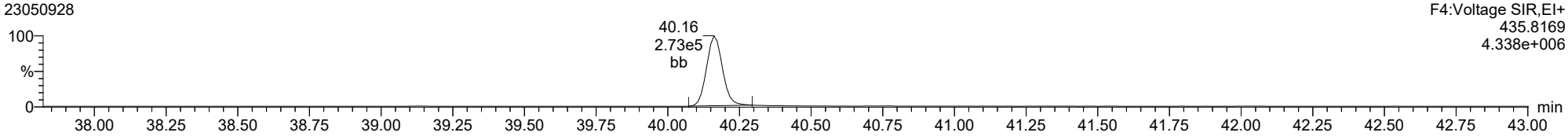

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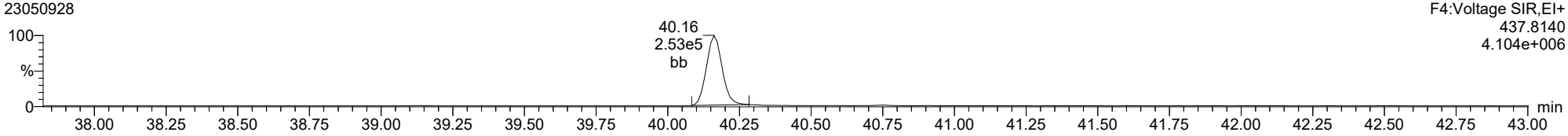

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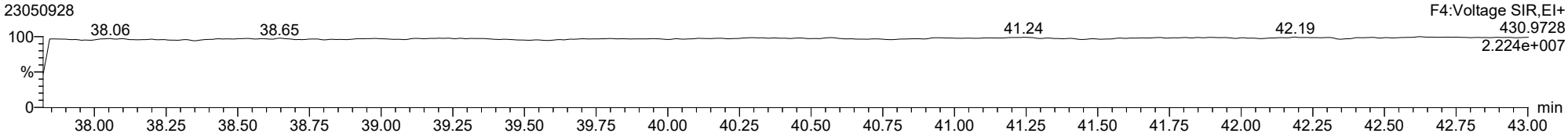

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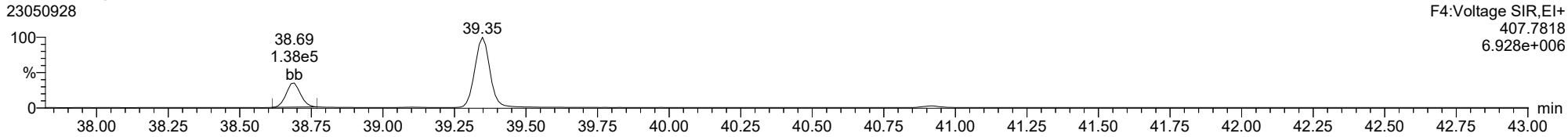

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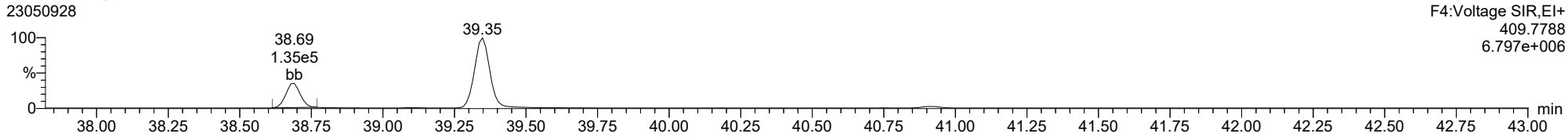

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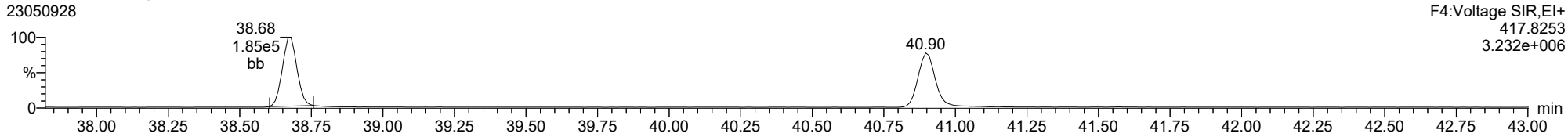

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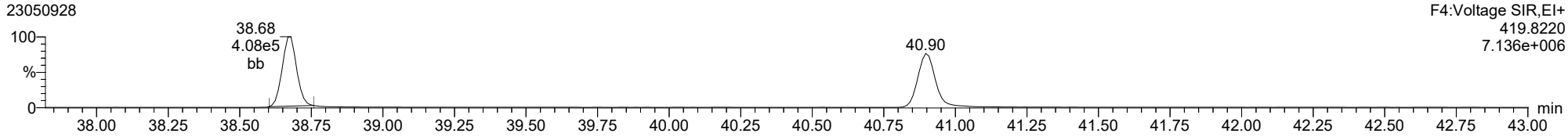
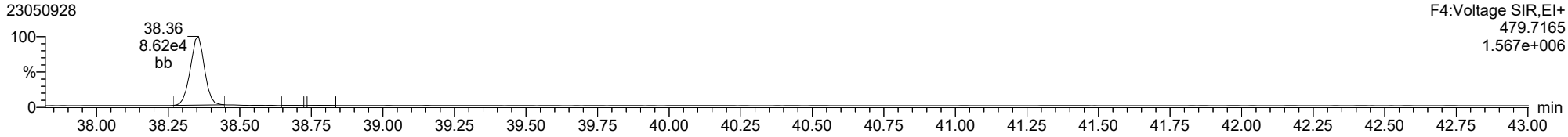
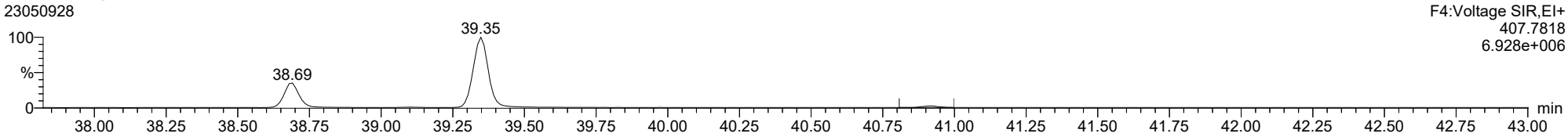


FUNCTION4 NCDPE

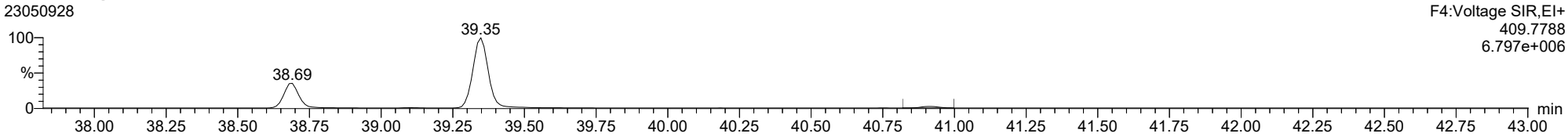


ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF



1234789-HpCDF



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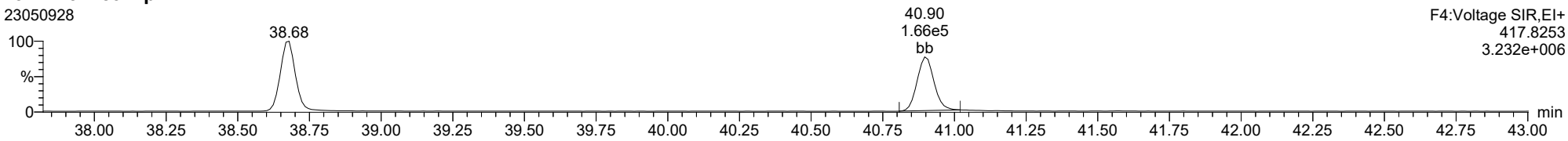

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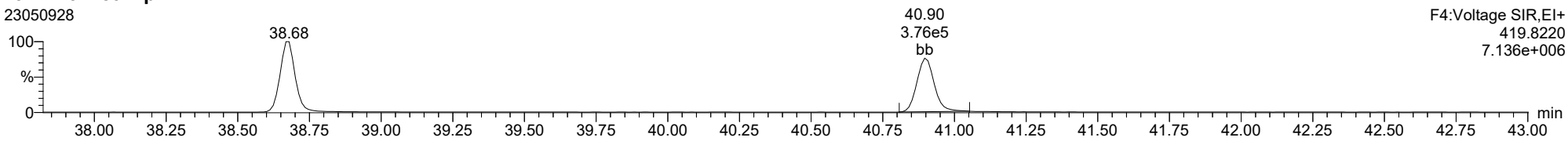
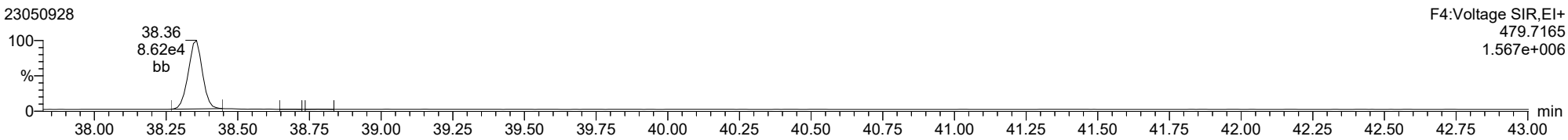


FUNCTION4 NCDPE



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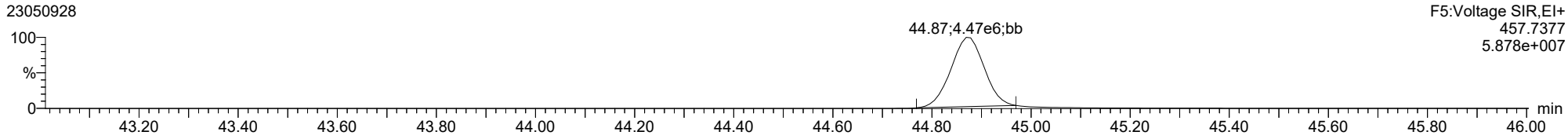

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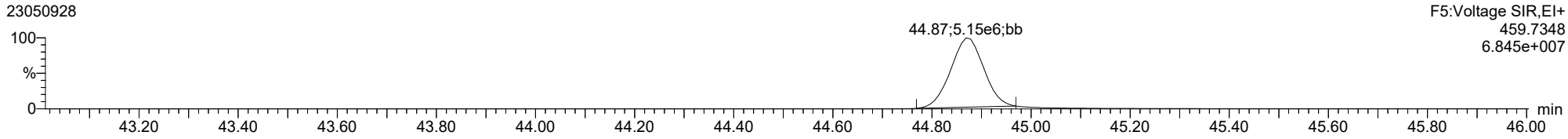

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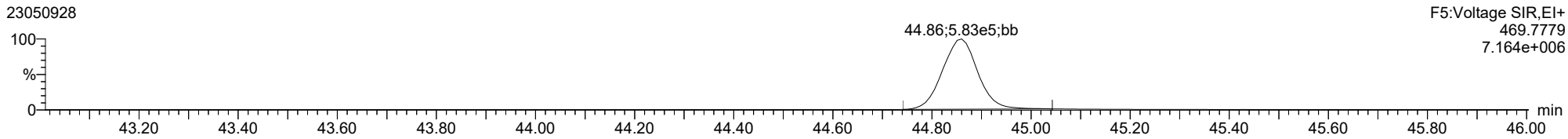

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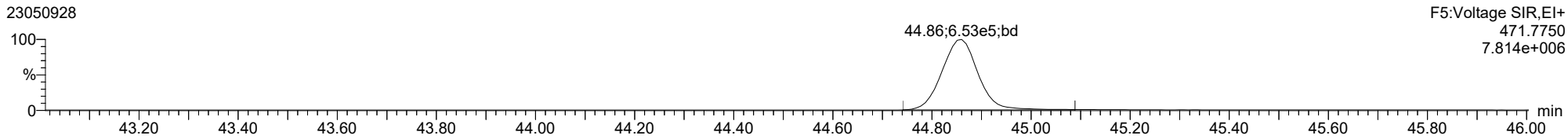

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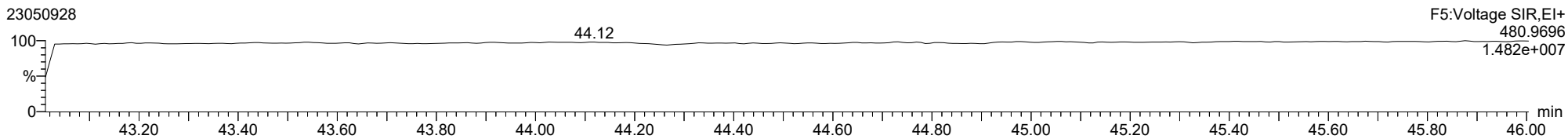

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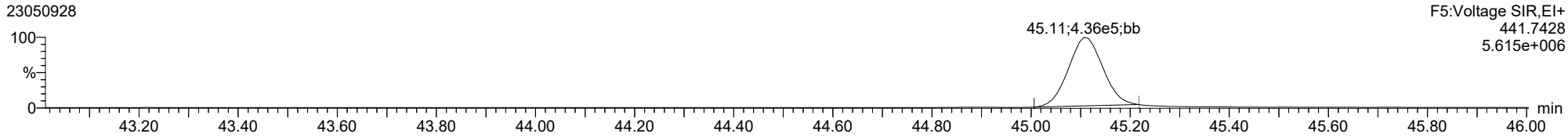
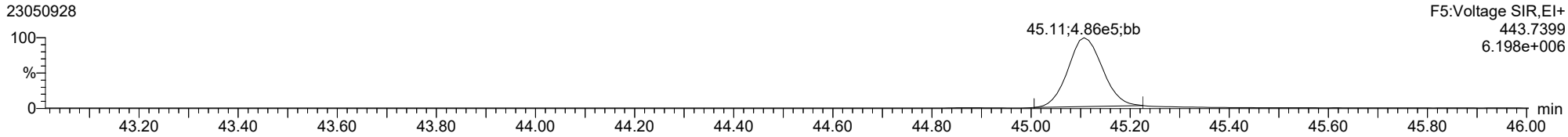


OCDF



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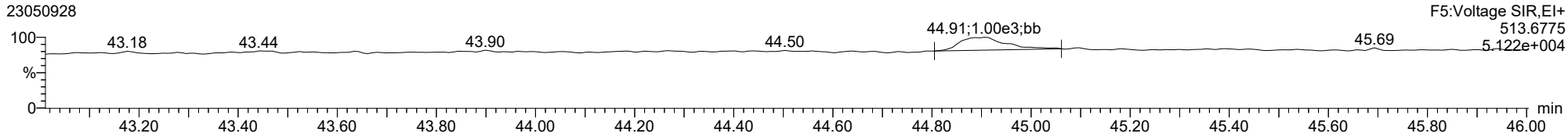

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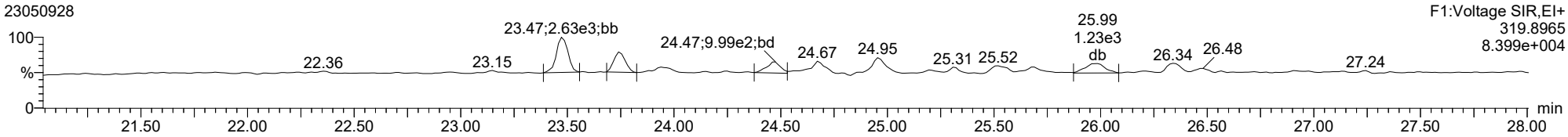
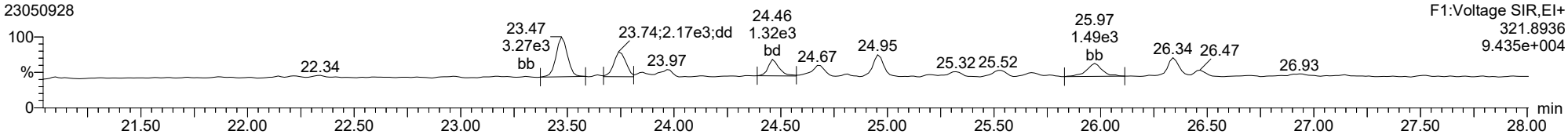


Total-tetradioxins



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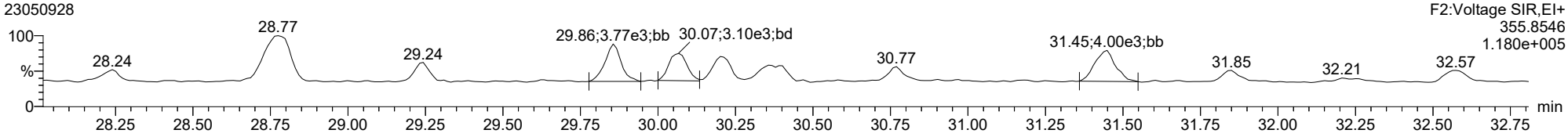
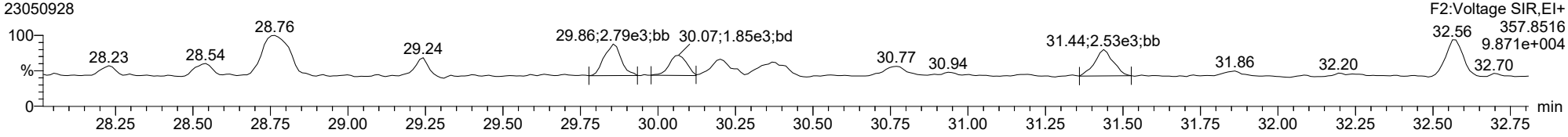


Total-pentadioxins



ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

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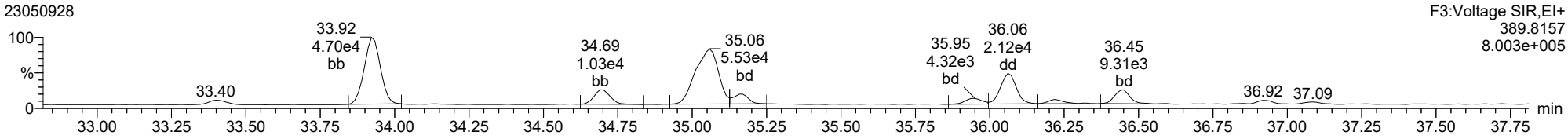
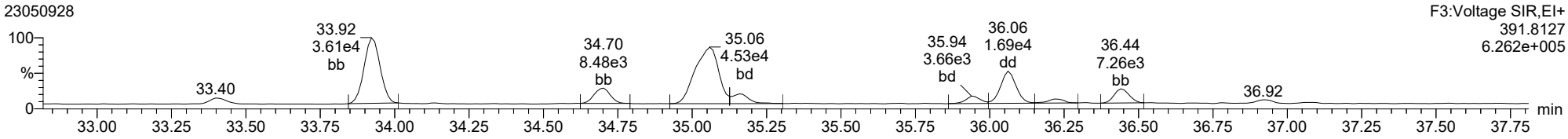


Total-hexadioxins



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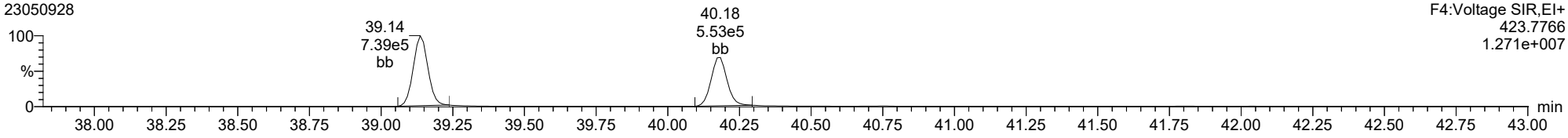

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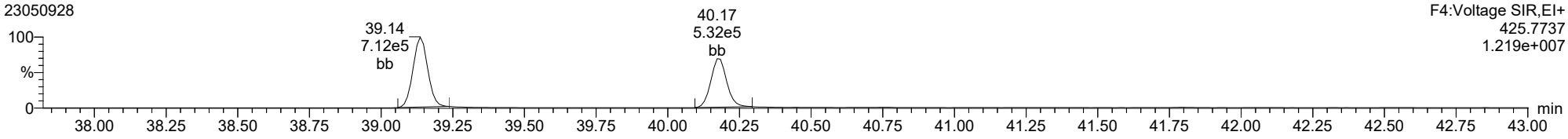

ID: 23D0136-01, Name: 23050928, Date: 10-May-2023, Time: 11:11:26, Conditions: AUTOSPEC01, User: pk

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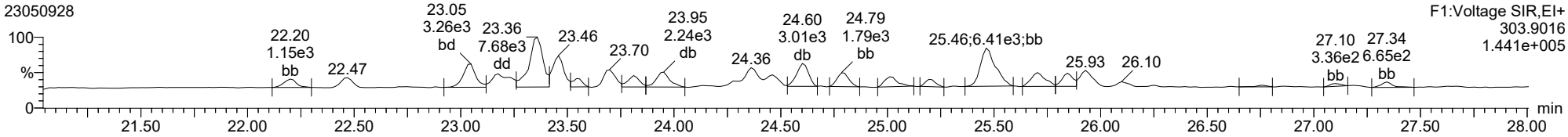

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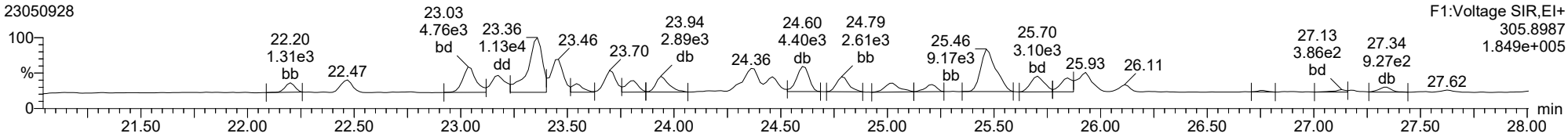

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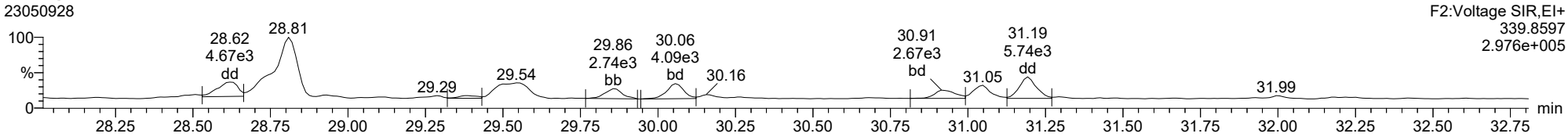

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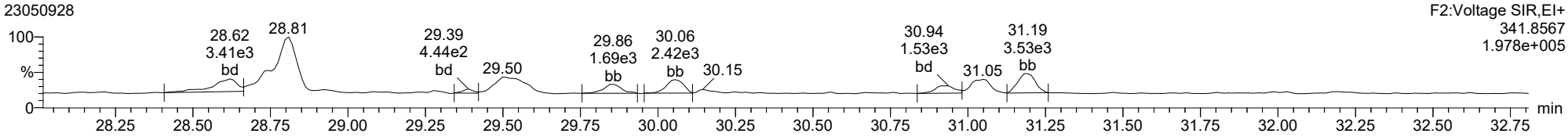

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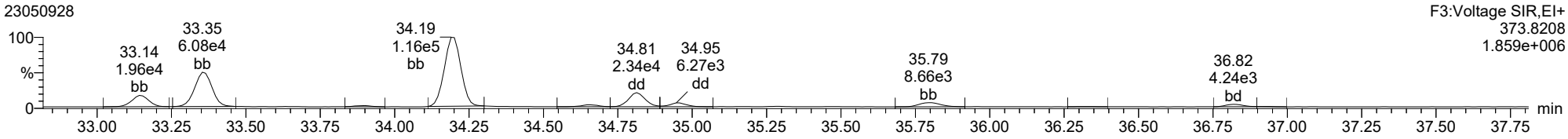

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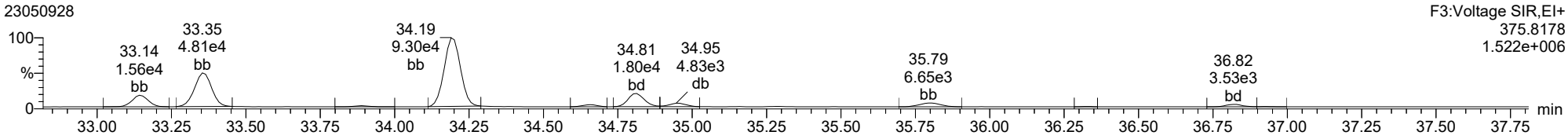

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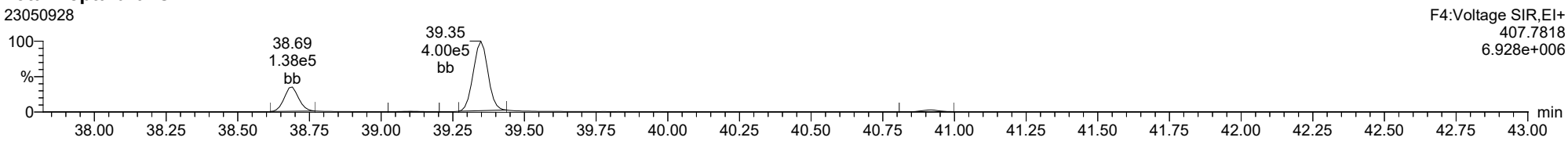
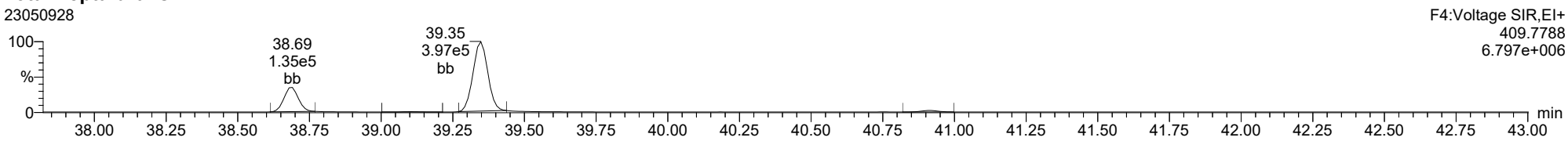


Total-heptafurans



PREPARATION BATCH SUMMARY

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0657 Batch Matrix: Solid
Preparation: EPA 1613

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050928	04/25/23 14:15	From BLD0240 by NPL on 24-Apr-2023
Blank	BLD0657-BLK2	23050121A	04/25/23 14:15	
LCS	BLD0657-BS2	23050122A	04/25/23 14:15	
Reference	BLD0657-SRM1	23050924	04/25/23 14:15	

138°

Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A, 1613B or HRSM02.1

Batch: BLD0657

Solid Samples

From BLD0240 on 24-Apr-2023 by NPL

ARI Work Orders: 23C0761,23C0765,23D0063,23D0136

Matrix (circle one)	(Soil)	Sediment	Oil Tissue
Extraction Method	Start Date/Time:		End Date/Time:
(Soxhlet) SepF Shake out	4/25/23	14:15	4/26/23 0624

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool		J012850	TW	5/1/23
Basic Silica		L000710	TW	5/1/23
Acid Silica		L000459	TW	5/1/23
Activated Florisil		K005956	TW	5/1/23
Balance		24650344	TW	4/25/23
Toluene		L003023	TW	4/25/23
Hexane		L003500	TW	4/26/23
CH2Cl2		L002621	TW	5/1/23
H2SO4	TW 5/1/23	~~K001037~~ L001033	TW	4/26/23
Na2SO4		L003875	TW	4/25/23
Other (RM)		L001275	TW	4/25/23
0% Silica		L002081	TW	5/1/23
Nonane		H006038	TW	5/1/23

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry)	Actual	RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
23C0761-03 A	PCB988	81.07	(12.34)	12.34	1 (2)	2.0	20
23C0761-08 A	PCB9C0	85.82	(11.65)	11.68	(1) 2	1.5	20
23C0761-09 A	PCB9C1	63.95	(15.64)	15.65	1 (2)	4.5	20
23C0765-03 A	PCB9C2	67.15	(14.89)	14.93	(1) 2	4.5	20
23C0765-06 A	PCB9C7	70.64	(14.16)	14.16	1 (2)	4.0	20
23D0063-01 C	LDW23-SS1818	40.43	(24.73)	24.74	(1) 2	12.0	20
~~23D0063-01RE1 C~~	~~LDW23-SS1818~~	~~40.43~~	~~(24.73)~~		~~1 2~~		~~20~~
23D0063-03 C	LDW23-SS1819	35.65	(28.05)	28.06	1 (2)	12.0	20
23D0136-01 A	LDW23-SS1804	48.26	(20.72)	20.74	(1) 2	7.5	20
BLD0657-BLK1	DBLK25	100	()		(1) 2	0.0	20
BLD0657-BS1	DLCS25	100	()		1 (2)	0.0	20
BLD0657-BSD1	DLCSD25	100	()		(1) 2	0.0	20
BLD0657-DUP1	23D0063-01C Duplicate	40.43	(24.73)	24.74	1 (2)	12.0	20
BLD0657-SRM1	Reference	100	()	100.3	(1) 2	0.0	20
Prep Analyst / Date:				TW 4/25/23		TW 4/26/23	

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	L003529	2/4 ng/mL	4/5/24	TW	[illegible]	4/25/23
OPR	1.0 mL	L000046	0.2/1.0/2.0 ng/mL	1/3/24	TW	[illegible]	4/25/23
~~QC Standard~~	~~1.0 mL~~		~~20/8.0/0.4 ng/mL ng/L~~				
Cleanu-up Standard	1.0 mL	L003530	0.8 ng/mL	4/5/24	TW	LD	5/1/23

Verify Client ID
Analyst / Date: TW 4/25/23

Acid Clean (Y) N
Analyst / Date: TW 4/26/23

Silica-Florisil Clean (Y) N
Analyst / Date: TW 5/1/23

Supervisor Review By [signature] Date 5/1/23

Printed: 4/25/2023 5:25:23AM

3083F
Page 1 of 1

Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A, 1613B or HRSM02.1

Batch: BLD0657

Solid Samples

From BLD0240 on 24-Apr-2023 by NPL

ARI Work Orders: 23C0761,23C0765,23D0063,23D0136

Matrix (circle one)	(Soil) Sediment Oil Tissue	
Extraction Method	Start Date/Time:	End Date/Time:
(Soxhlet) SepF Shake out		

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool				
Basic Silica				
Acid Silica				
Activated Florisil				
Balance		24650344		
Toluene				
Hexane				
CH2Cl2				
H2SO4				
Na2SO4				
Other (RM)				
0% Silica				
Nonane				

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry) Actual	RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
23C0761-03 A	PCB988	81.07	(12.34)	1 / 2		20
23C0761-08 A	PCB9C0	85.82	(11.65)	1 / 2		20
23C0761-09 A	PCB9C1	63.95	(15.64)	1 / 2		20
23C0765-03 A	PCB9C2	67.15	(14.89)	1 / 2		20
23C0765-06 A	PCB9C7	70.64	(14.16)	1 / 2		20
23D0063-01 C	LDW23-SS1818	40.43	(24.73)	1 / 2		20
~~23D0063-01RE1 C~~	~~LDW23-SS1818~~	~~40.43~~	~~(24.73)~~	~~1 / 2~~		~~20~~
23D0063-03 C	LDW23-SS1819	35.65	(28.05)	1 / 2		20
23D0136-01 A	LDW23-SS1804	48.26	(20.72)	1 / 2		20
BLD0657-BLK1	DBLK25	100	()	1 / 2		20
BLD0657-BS1	DLCS25	100	()	1 / 2		20
BLD0657-BSD1	DLCSD25	100	()	1 / 2		20
BLD0657-DUP1	Duplicate 23D0063-01C	40.43	(24.73)	1 / 2		20
BLD0657-SRM1	Reference	100	()	1 / 2		20
Prep Analyst / Date:						

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL		2/4 ng/mL				
OPR	1.0 mL		0.2/1.0/2.0 ng/mL				
~~QLS Standard~~	~~1.0 mL~~		~~0.01/0.05/0.1ng/mL ng/L~~				
Cleanu-up Standard	1.0 mL		0.8 ng/mL				

Verify Client ID

Analyst / Date:

Acid Clean (Y) N

Analyst / Date:

Silica-Florisil Clean (Y) N

Analyst / Date:

Supervisor Review By Date

Printed: 4/25/2023 5:25:23AM

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin Extraction Laboratory – Glassware

Batch ID: BLD0657 Work Order: 23C0761, 23C0765, 23D0063, 23D0136 Extraction Parameter: Dioxin ARI Analyst TW

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BLD0657 – BLK1	83	7		4	21	229	115	35				4	4	A1
– BS1	19	59		32	67	35	4	71				4	4	A2
– BSD1	16	60		33	82	43	103	81				4	4	A3
– DUP1	9		32	12	26	42	158	83				4	4	A5
– SRM1	60	25		23	30	185	164	28				4	4	A6
23C0761 – 03	59	94		20	19	20	21	39				4	4	B1
– 08	8	79		50	11	57	36	76				4	4	B2
– 09	21	46		9	76	121	43	5				4	4	B3
23C0765 – 03	56	27		30	14	34	35	58				4	4	B4
– 06	11	74		27	88	27	61	37				4	4	B5
23D0063 – 01	7		68	19	47	72	71	82				4	4	B6
– 03	15		35	51	70	44	64	41				4	4	C1
23D0136 – 01	43		1	18	61	15	123	16				4	4	C2
												4	4	
												4	4	
												4	4	
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												4	4	
												4	4	

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Dioxin Extraction Laboratory – Glassware

Batch ID: BLK0248 Work Order: 23G7401, 23G7705, 23D0003, 23D0136 Extraction Parameter: DIOXIN ARI Analyst LO

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BLK0248 - BLK1	9	27		9	14	220	4	32				4	4	A1
- BS1	10	25		24	82	42	37	33				4	4	A2
- BSD1	46	24		58	67	15	54	28				4	4	A3
- DUP1	34	~~40~~ 40	73	51	~~70~~ 79	28	184	71				4	4	A9
- SRM1	14	94		29	38	43	67	6				4	4	A10
23G7401 - 03A	2	46		49	65	78	43	35				4	4	B1
- 08A	19	79		88	11	41	37	83				4	4	B2
- 09A	49	7		1	19	191	142	29				4	4	B5
23G7705 - 05A	32	74		10	88	34	101	18				4	4	B4
- 06A	38	88		6	49	57	64	62				4	4	B9
23D0003 - 01C	25		24	19	24	31	29	91				4	4	B6
- 03C	20		69	52	62	27	97	34				4	4	C1
23D0136 - 01A	39	101	32	37	59	121	183	41				4	4	C2
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	
												4	4	

TOTAL SOLIDS BENCHSHEET						Batch:	BLD0086
Method HRSM01.2						Date:	4/10/2023 0:00
(dry at 110 C)						Analyst:	LD
Instrumentation						Drying Oven:	18
						Analytical Balance:	24650344

Batch drying time					
Record times as mm/dd/yy hh:mm		Oven Temp, C	TS (%) calculated as:		
Date/time in oven:	4/10/2023 14:41	108	Final dry wt (g) = (Dry Wt - Tare Wt)		
Date/time out:	4/11/2023 7:14	111	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)		
Elapsed hrs:	16.5				

Oven Temps, °C	
Start Temp:	108
End Temp:	111

SAMPLE ID (4/26/23)	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0761-~~03~~01	0.7900	11.6700	9.6100	8.82	81.07%	No
23C0765-06	0.8000	11.8700	8.6200	7.82	70.64%	No
23D0063-01	0.8000	10.9900	4.9200	4.12	40.43%	No
23D0063-03	0.8400	11.7800	4.7400	3.90	35.65%	No
23D0136-01	0.8300	11.4800	5.9700	5.14	48.26%	No

TOTAL SOLIDS BENCHSHEET

Method HRSM01.2

(dry at 110 C)

Batch:	BLD0080
Date:	4-18-23
Analyst:	LO
Drying Oven:	18
Analytical Balance:	2446583444

Instrumentation

Batch drying time			Oven Temp, C	TS (%) calculated as:
Record times as mm/dd/yy hh:mm				
Date/time in oven:	04/18/23	14:41	108	Final dry wt (g) = (Dry Wt - Tare Wt)
Date/time out:	04/19/23	7:14	111	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)
Elapsed hrs:	0.0			

Oven Temps, °C	
Start Temp:	108
End Temp:	111

SAMPLE ID 4/26	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0761-~~03~~ 01	0.79	11.07	9.01			No
23C0765-06	0.98	11.97	9.02			No
23D0063-01	8.98	18.99	4.92			No
23D0063-03	8.94	11.78	4.74			No
23D0136-01	8.95	11.49	6.97			No

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: Dioxin Extraction Batch: ~~BLD0057~~ BLD0065 m 5/12/23

Total Solids Batch: BLD0086 Work Order(s): 23C0761, 765, 23D0063, 130

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 23C0761-08A, 23C0765-03A	m 5/12/23
☒ Standing Water Decanted (Not shared)= 1mL in 765-BW, ~10mL in 063-B1 and -B3. 5mL in 761-B3 & 130-B1.	LD 4/18/23
☐ Standing Water Homogenized (Shared samples)= ~~m 5/12/23 23C0765-03A~~	
☐ Clay/Clumps (Difficult to homogenize)=	
☒ Rocks (%+size)? <5% ~1-2 small 1/4-1/2 in. in size sample 130-B1. ~1% 1/8 in. in size sample 765-BW, ~1% 1/8 in. in size sample 761-B3	LD 4/18/23
☒ Organics (Leaves/sticks/grass)= 23C0761-09	m 5/12/23
☒ Oily, obvious fuel/sulfur odors= Slight odor in 761-B3, B63-B1 & B3. minimal smell in 130-B1.	LD 4/18/23
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☑ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☒ Other Notes/Comments= (Note problems, concerns, corrective actions).	
Sample B63-B1 wintery due to known solvent. Zero water in water trap. (completely)	LD 4/13/23
- sample pupl bumped, loss of ~10%.	LD 4/13/23
765-03 = Bump on Rotovap ~5% loss	Tw 4/26/23
☐ Share Samples Y / N	
☐ Multiple Jars Y / N	
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0095	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050928	04/14/2023	

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CLEANUP BENCH SHEET

CLD0095

Matrix: Solid **Cleanup using: HRGCMS - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 4/17/2023 9:30:25AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0761-03	A	PCB988	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0761-08	A	PCB9C0	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0761-09	A	PCB9C1	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0765-03	A	PCB9C2	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0765-06	A	PCB9C7	A 01	20	20	HRSM02.x	4/14/2023	LD	
23D0063-01	C	LDW23-SS1818	C 01	20	20	HRSM02.x	4/14/2023	LD	
23D0063-01	C	LDW23-SS1818	C 01	20	20	1613B Dioxin	4/14/2023	LD	
23D0063-03	C	LDW23-SS1819	C 01	20	20	1613B Dioxin	4/14/2023	LD	
23D0136-01	A	LDW23-SS1804	A 01	20	20	1613B Dioxin	4/14/2023	LD	
BLD0240-BLK1	-	DBLK12	-	20	20	-	4/14/2023	LD	
BLD0240-BS1	-	DLCS12	-	20	20	-	4/14/2023	LD	
BLD0240-BSD1	-	DLCSD12	-	20	20	-	4/14/2023	LD	
BLD0240-DUP1	-	Duplicate	-	20	20	-	4/14/2023	LD	
BLD0240-SRM1	-	Reference	-	20	20	-	4/14/2023	LD	

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CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0096	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050928	04/14/2023	

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CLEANUP BENCH SHEET

CLD0096

Matrix: Solid **Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup - uL** **Printed: 4/17/2023 9:31:16AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0761-03	A	PCB988	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0761-08	A	PCB9C0	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0761-09	A	PCB9C1	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0765-03	A	PCB9C2	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0765-06	A	PCB9C7	A 01	20	20	HRSM02.x	4/14/2023	LD	
23D0063-01	C	LDW23-SS1818	C 01	20	20	HRSM02.x	4/14/2023	LD	
23D0063-01	C	LDW23-SS1818	C 01	20	20	1613B Dioxin	4/14/2023	LD	
23D0063-03	C	LDW23-SS1819	C 01	20	20	1613B Dioxin	4/14/2023	LD	
23D0136-01	A	LDW23-SS1804	A 01	20	20	1613B Dioxin	4/14/2023	LD	
BLD0240-BLK1	-	DBLK12	-	20	20	-	4/14/2023	LD	
BLD0240-BS1	-	DLCS12	-	20	20	-	4/14/2023	LD	
BLD0240-BSD1	-	DLCSD12	-	20	20	-	4/14/2023	LD	
BLD0240-DUP1	-	Duplicate	-	20	20	-	4/14/2023	LD	
BLD0240-SRM1	-	Reference	-	20	20	-	4/14/2023	LD	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLD0097	Cleanup Type:	Florisil
Cleanup Method:	EPA 3620B Florisil Cleanup (uL)	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050928	04/14/2023	

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CLEANUP BENCH SHEET

CLD0097

Matrix: Solid **Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup (uL)** **Check Standard: CKK0015-FLO1** **Printed: 4/17/2023 9:32:05AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0761-03	A	PCB988	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0761-08	A	PCB9C0	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0761-09	A	PCB9C1	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0765-03	A	PCB9C2	A 01	20	20	HRSM02.x	4/14/2023	LD	
23C0765-06	A	PCB9C7	A 01	20	20	HRSM02.x	4/14/2023	LD	
23D0063-01	C	LDW23-SS1818	C 01	20	20	HRSM02.x	4/14/2023	LD	
23D0063-01	C	LDW23-SS1818	C 01	20	20	1613B Dioxin	4/14/2023	LD	
23D0063-03	C	LDW23-SS1819	C 01	20	20	1613B Dioxin	4/14/2023	LD	
23D0136-01	A	LDW23-SS1804	A 01	20	20	1613B Dioxin	4/14/2023	LD	
BLD0240-BLK1	-	DBLK12	-	20	20	-	4/14/2023	LD	
BLD0240-BS1	-	DLCS12	-	20	20	-	4/14/2023	LD	
BLD0240-BSD1	-	DLCSD12	-	20	20	-	4/14/2023	LD	
BLD0240-DUP1	-	Duplicate	-	20	20	-	4/14/2023	LD	
BLD0240-SRM1	-	Reference	-	20	20	-	4/14/2023	LD	

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CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0004	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050928	04/26/2023	
Reference	BLD0657-SRM1	23050924	04/26/2023	

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CLEANUP BENCH SHEET

CLE0004

Matrix: Solid **Cleanup using: HRGCMS - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 5/1/2023 11:38:00AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0761-03	A	PCB988	A 06	20	20	HRSM02.x	4/26/2023	TW	
23C0761-08	A	PCB9C0	A 06	20	20	HRSM02.x	4/26/2023	TW	
23C0761-09	A	PCB9C1	A 06	20	20	HRSM02.x	4/26/2023	TW	
23C0765-03	A	PCB9C2	A 06	20	20	HRSM02.x	4/26/2023	TW	
23C0765-06	A	PCB9C7	A 06	20	20	HRSM02.x	4/26/2023	TW	
23D0063-01	C	LDW23-SS1818	C 02	20	20	1613B Dioxin	4/26/2023	TW	
23D0063-01RE1	C	LDW23-SS1818	C 02	20	20	HRSM02.x	4/26/2023	TW	
23D0063-03	C	LDW23-SS1819	C 02	20	20	1613B Dioxin	4/26/2023	TW	
23D0136-01	A	LDW23-SS1804	A 06	20	20	1613B Dioxin	4/26/2023	TW	
BLD0657-BLK1	-	DBLK25	-	20	20	-	4/26/2023	TW	
BLD0657-BS1	-	DLCS25	-	20	20	-	4/26/2023	TW	
BLD0657-BSD1	-	DLCSD25	-	20	20	-	4/26/2023	TW	
BLD0657-DUP1	-	Duplicate	-	20	20	-	4/26/2023	TW	
BLD0657-SRM1	-	Reference	-	20	20	-	4/26/2023	TW	

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CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0005	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Reference	BLD0657-SRM1	23050924	05/01/2023	
LDW23-SS1804	23D0136-01	23050928	05/01/2023	

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CLEANUP BENCH SHEET

CLE0005

Matrix: Solid **Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup - uL** **Printed: 5/1/2023 11:38:42AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0761-03	A	PCB988	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0761-08	A	PCB9C0	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0761-09	A	PCB9C1	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0765-03	A	PCB9C2	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0765-06	A	PCB9C7	A 06	20	20	HRSM02.x	5/1/2023	TW	
23D0063-01	C	LDW23-SS1818	C 02	20	20	1613B Dioxin	5/1/2023	TW	
23D0063-01RE1	C	LDW23-SS1818	C 02	20	20	HRSM02.x	5/1/2023	TW	
23D0063-03	C	LDW23-SS1819	C 02	20	20	1613B Dioxin	5/1/2023	TW	
23D0136-01	A	LDW23-SS1804	A 06	20	20	1613B Dioxin	5/1/2023	TW	
BLD0657-BLK1	-	DBLK25	-	20	20	-	5/1/2023	TW	
BLD0657-BS1	-	DLCS25	-	20	20	-	5/1/2023	TW	
BLD0657-BSD1	-	DLCSD25	-	20	20	-	5/1/2023	TW	
BLD0657-DUP1	-	Duplicate	-	20	20	-	5/1/2023	TW	
BLD0657-SRM1	-	Reference	-	20	20	-	5/1/2023	TW	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLE0006	Cleanup Type:	Florisil
Cleanup Method:	EPA 3620B Florisil Cleanup (uL)	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	23050928	05/01/2023	
Reference	BLD0657-SRM1	23050924	05/01/2023	

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CLEANUP BENCH SHEET

CLE0006

Matrix: Solid **Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup (uL)** **Check Standard: CKK0015-FLO1** **Printed: 5/1/2023 11:39:16AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0761-03	A	PCB988	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0761-08	A	PCB9C0	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0761-09	A	PCB9C1	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0765-03	A	PCB9C2	A 06	20	20	HRSM02.x	5/1/2023	TW	
23C0765-06	A	PCB9C7	A 06	20	20	HRSM02.x	5/1/2023	TW	
23D0063-01	C	LDW23-SS1818	C 02	20	20	1613B Dioxin	5/1/2023	TW	
23D0063-01RE1	C	LDW23-SS1818	C 02	20	20	HRSM02.x	5/1/2023	TW	
23D0063-03	C	LDW23-SS1819	C 02	20	20	1613B Dioxin	5/1/2023	TW	
23D0136-01	A	LDW23-SS1804	A 06	20	20	1613B Dioxin	5/1/2023	TW	
BLD0657-BLK1	-	DBLK25	-	20	20	-	5/1/2023	TW	
BLD0657-BS1	-	DLCS25	-	20	20	-	5/1/2023	TW	
BLD0657-BSD1	-	DLCSD25	-	20	20	-	5/1/2023	TW	
BLD0657-DUP1	-	Duplicate	-	20	20	-	5/1/2023	TW	
BLD0657-SRM1	-	Reference	-	20	20	-	5/1/2023	TW	

Analytical Resources, LLC
Analytical Chemists and Consultants

Blank

Form 1
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0657-BLK2	File ID:	23050121A
Sampled:	N/A	Prepared:	04/25/23 14:15	Analyzed:	05/02/23 02:53
Solids Wt%:		Preparation:	EPA 1613	Initial/Final:	10 g / 20 uL
Result Basis:	Dry	Sequence:	SLE0060	Calibration:	GC00015
Batch:	BLD0657	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.179	1.00	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.134	1.00	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.199	1.00	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.186	1.00	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	0.000	1.318-1.783	0.220	1.00	ND	ng/kg	U
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.118	1.00	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.106	1.00	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.125	1.00	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.194	1.00	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.238	1.00	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.215	1.00	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.248	1.00	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.000	0.893-1.208	0.156	1.00	ND	ng/kg	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.251	1.00	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.000	0.893-1.208	0.272	2.50	ND	ng/kg	U
39001-02-0	OCDF	1	0.000	0.757-1.024	0.564	2.50	ND	ng/kg	U
3268-87-9	OCDD	1	0.825	0.757-1.024	0.425	10.0	0.661	ng/kg	J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.00	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			1.00	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			1.00	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			1.00	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			1.00	ND	ng/kg
34465-46-8	Total HxCDD	1	0.000			1.00	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			1.00	ND	ng/kg
37871-00-4	Total HpCDD	1	0.000			1.00	ND	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.000
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.283

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Blank

Form 2
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLD0657-BLK2	File ID:	23050121A
Sampled:	N/A	Prepared:	04/25/23 14:15	Analyzed:	05/02/23 02:53
Solids Wt%:	0.00	Preparation:	EPA 1613	Initial/Final:	10 g / 20 uL
Result Basis:	Dry	Sequence:	SLE0060	Calibration:	GC00015
Batch:	BLD0657	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.756	0.655-0.886	0.16	81.8	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.779	0.655-0.886	0.23	92.9	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.510	1.318-1.783	0.51	91.5	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.541	1.318-1.783	0.57	95.7	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.744	1.318-1.783	0.25	59.7	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.527	0.434-0.587	1.02	106	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.444	0.434-0.587	0.86	117	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.479	0.434-0.587	1.05	111	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.578	0.434-0.587	1.28	99.2	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.327	1.054-1.426	0.60	99.7	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.173	1.054-1.426	0.52	104	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.452	0.374-0.506	1.02	107	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.414	0.374-0.506	1.18	98.2	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.047	0.893-1.208	0.79	89.9	23 - 140 %	
13C12-OCDD	1	0.904	0.757-1.024	1.24	92.1	17 - 157 %	
37Cl4-2,3,7,8-TCDD	1	328.000		0.12	93.5	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230501IHQC.qld
Last Altered: Wednesday, May 10, 2023 16:26:38 Pacific Daylight Time
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Method: T:\Autospec\Methods\Dioxin230501.mdb 02 May 2023 09:11:55
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.702		0.770	652	847								
12378-PeCDF					0.679		1.550	477	917								
23478-PeCDF					0.786		1.550	477	917								
123478-HxCDF					1.166		1.240	436	535								
234678-HxCDF					1.140		1.240	436	535								
123678-HxCDF					1.091		1.240	436	535								
123789-HxCDF					1.137		1.240	436	535								
1234678-HpCDF					1.003		1.050	443	436								
1234789-HpCDF					0.953		1.050	443	436								
OCDF					0.778		0.890	518	721								
2378-TCDD					1.149		0.770	1066	537								
12378-PeCDD					1.022		1.550	647	366								
123478-HxCDD					0.996		1.240	591	824								
123678-HxCDD					1.001		1.240	591	824								
123789-HxCDD					0.907		1.240	591	824								
1234678-HpCDD					1.039		1.050	528	549								
OCDD	44.706	1.001	2.406e2	2.916e2	0.920	0.825	0.890	489	614	4.65e3	7.03e3	9.5	11.4	NO	db	db	0.331
13C-2378-TCDF	25.520	1.007	2.395e5	3.168e5	1.620	0.756	0.770	1286	1389	3.09e6	4.09e6	2399.7	2947.4	NO	bd	bb	81.845
13C-12378-PeCDF	29.669	1.170	2.864e5	1.897e5	1.240	1.510	1.550	2622	3870	3.72e6	2.36e6	1418.9	608.8	NO	bd	bb	91.489
13C-23478-PeCDF	31.006	1.223	2.720e5	1.766e5	1.118	1.541	1.550	2622	3870	3.46e6	2.23e6	1320.1	576.8	NO	bd	bd	95.660
13C-123478-HxCDF	34.639	0.955	1.057e5	2.005e5	1.168	0.527	0.510	3421	3169	1.47e6	2.89e6	428.6	911.0	NO	bd	bd	105.903
13C-123678-HxCDF	34.784	0.959	1.231e5	2.775e5	1.386	0.444	0.510	3421	3169	1.54e6	3.12e6	451.2	985.3	NO	db	db	116.754
13C-234678-HxCDF	35.653	0.983	1.002e5	2.091e5	1.129	0.479	0.510	3421	3169	1.33e6	2.70e6	387.6	851.1	NO	bb	bd	110.662
13C-123789-HxCDF	36.689	1.011	8.384e4	1.449e5	0.932	0.578	0.510	3421	3169	9.68e5	1.87e6	282.9	590.0	NO	bb	bb	99.207
13C-1234678-HpCDF	38.525	1.062	7.376e4	1.631e5	0.895	0.452	0.440	1740	3295	1.05e6	2.35e6	601.7	713.9	NO	bb	bb	106.915
13C-1234789-HpCDF	40.742	1.123	5.476e4	1.324e5	0.770	0.414	0.440	1740	3295	6.44e5	1.51e6	370.1	456.9	NO	bd	bb	98.217
13C-1234-TCDD	25.351	0.000	1.876e5	2.320e5	1.000	0.809	0.770	1606	1060	2.74e6	3.43e6	1707.5	3236.3	NO	bb	bb	100.000
13C-2378-TCDD	26.156	1.032	1.965e5	2.524e5	1.152	0.779	0.770	1606	1060	2.72e6	3.53e6	1695.9	3325.1	NO	bb	bb	92.859
13C-12378-PeCDD	31.262	1.233	1.319e5	7.565e4	0.829	1.744	1.550	1154	965	1.72e6	9.41e5	1489.1	974.3	NO	MM	bd	59.700
13C-123478-HxCDD	35.764	0.986	1.400e5	1.055e5	0.995	1.327	1.240	1824	1496	2.04e6	1.60e6	1118.6	1067.2	NO	bd	bd	99.678
13C-123678-HxCDD	35.887	0.989	1.610e5	1.373e5	1.157	1.173	1.240	1824	1496	2.14e6	1.73e6	1170.5	1153.6	NO	db	db	104.193
13C-1234678-HpCDD	40.007	1.103	9.566e4	9.135e4	0.840	1.047	1.050	1688	1964	1.17e6	1.12e6	692.8	570.5	NO	bb	bd	89.942
13C-OCDD	44.669	1.231	1.661e5	1.838e5	0.767	0.904	0.890	2797	2457	1.61e6	1.75e6	575.1	713.2	NO	bd	bd	184.216
13C-123789-HxCDD	36.277	0.000	1.384e5	1.091e5	1.000	1.268	1.240	1824	1496	1.86e6	1.46e6	1018.3	979.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.170	1.032	2.020e5		1.288			1616		2.70e6		1669.6			bd		37.384

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Last Altered: Wednesday, May 10, 2023 16:26:38 Pacific Daylight Time
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ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	652	847								
1289-TCDF					0.678		0.770	652	847								
13468-PECDF					1.246		1.550	512	898								
12389-PECDF					0.496		1.550	477	917								
123468-HXCDF					1.169		1.240	436	535								
1368-TCDD					1.015		0.770	1066	537								
1289-TCDD					0.909		0.770	1066	537								
12479-PECDD					2.301		1.550	647	366								
12389-PECDD					1.184		1.550	647	366								
124679-HXCDD					1.115		1.240	591	824								
1234679-HPCDD	38.981	0.974	1.894e2	7.256e1	1.137	2.611	1.050	528	549	4.25e3	1.62e3	8.1	3.0	YES	bb	bb	0.123
Total-tetrafurans			0.000e0		0.727			652		0.00e0							
Total-penta1			0.000e0					512		0.00e0							
Total-pentafurans			0.000e0		0.654			477		0.00e0							
Total-hexafurans			0.000e0		1.141			436		0.00e0							
Total-heptafurans			0.000e0		0.978			443		0.00e0							
Total-Furans			0.000e0		0.922			652		0.00e0							
Total-tetradioxins			0.000e0		1.024			1066		0.00e0							
Total-pentadioxins			0.000e0		1.502			647		0.00e0							
Total-hexadioxins			0.000e0		1.005			591		0.00e0							
Total-heptadioxins			0.000e0		1.088			528		0.00e0							
Total-Dioxins			2.406e2		1.130			1066		4.65e3							0.331
Total-TEQ			2.406e2					1066		4.65e3							0.331
FUNCTION1 PFK			5.361e5					335102		1.04e7							
FUNCTION2 PFK			1.684e5					204641		5.66e6							0.000
FUNCTION3 PFK			5.301e7					204692		1.97e8							0.000
FUNCTION4 PFK			3.785e4					254899		9.26e5							
FUNCTION5 PFK			1.659e5					153444		6.10e6							
FUNCTION1 HXCD...			4.938e2					466		7.11e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.389e2					884		1.03e4							0.000
FUNCTION3 OCDPE			1.757e2					365		1.93e3							0.000
FUNCTION4 NCDPE			1.488e2					582		2.82e3							0.000
FUNCTION5 DCDPE			0.000e0					430		0.00e0							

Method: T:\Autospec\Methods\Dioxin230501.mdb 02 May 2023 09:11:55
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	OCDD	44.71	2.406e2	2.916e2	0.920	0.82	0.89	9.5	YES	NO	db	db	0.331

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.12	2.401e4					1.5	NO		bb		
2	FUNCTION1 PFK	24.88	5.894e4					1.8	NO		bb		
3	FUNCTION1 PFK	24.73	4.709e4					1.9	NO		bb		
4	FUNCTION1 PFK	24.53	3.796e4					1.7	NO		bb		
5	FUNCTION1 PFK	24.40	7.741e3					0.7	NO		bb		
6	FUNCTION1 PFK	24.32	2.101e3					0.4	NO		bb		
7	FUNCTION1 PFK	24.04	9.018e3					0.9	NO		bb		
8	FUNCTION1 PFK	23.73	4.685e4					1.5	NO		bb		
9	FUNCTION1 PFK	23.33	2.028e4					0.9	NO		bb		
10	FUNCTION1 PFK	22.36	1.321e4					1.1	NO		bb		
11	FUNCTION1 PFK	22.30	1.366e4					1.5	NO		db		
12	FUNCTION1 PFK	22.27	1.765e4					1.9	NO		bd		
13	FUNCTION1 PFK	21.51	1.422e4					1.3	NO		db		
14	FUNCTION1 PFK	21.31	9.995e4					2.8	NO		bd		
15	FUNCTION1 PFK	21.20	4.960e3					1.1	NO		bb		
16	FUNCTION1 PFK	21.16	1.476e4					1.0	NO		bb		
17	FUNCTION1 PFK	27.71	3.205e4					1.9	NO		db		
18	FUNCTION1 PFK	27.65	1.195e4					1.3	NO		bd		
19	FUNCTION1 PFK	27.31	1.435e4					1.2	NO		bb		
20	FUNCTION1 PFK	26.33	2.850e3					0.6	NO		bb		
21	FUNCTION1 PFK	26.27	1.642e4					1.1	NO		db		
22	FUNCTION1 PFK	26.20	1.115e4					1.2	NO		bd		
23	FUNCTION1 PFK	25.79	3.835e3					0.8	NO		bb		
24	FUNCTION1 PFK	25.27	1.114e4					1.2	NO		bb		

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.08	9.793e3					1.4	NO		bb		0.000
2	FUNCTION2 PFK	29.81	5.256e3					0.8	NO		bb		0.000
3	FUNCTION2 PFK	28.79	1.764e4					2.2	NO		db		0.000
4	FUNCTION2 PFK	28.76	1.980e4					2.2	NO		bd		0.000
5	FUNCTION2 PFK	28.38	1.092e4					1.7	NO		bb		0.000
6	FUNCTION2 PFK	28.00	1.840e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	27.94	1.357e4					2.1	NO		bb		0.000
8	FUNCTION2 PFK	32.41	5.114e3					1.0	NO		bb		0.000
9	FUNCTION2 PFK	32.30	4.485e3					0.9	NO		db		0.000
10	FUNCTION2 PFK	32.27	5.188e3					1.2	NO		bd		0.000
11	FUNCTION2 PFK	32.13	2.197e3					0.7	NO		bb		0.000
12	FUNCTION2 PFK	31.74	8.786e3					1.8	NO		db		0.000
13	FUNCTION2 PFK	31.71	1.551e4					1.9	NO		bd		0.000
14	FUNCTION2 PFK	31.28	5.186e3					1.0	NO		bb		0.000
15	FUNCTION2 PFK	31.23	1.625e3					0.7	NO		bb		0.000
16	FUNCTION2 PFK	31.04	1.165e4					1.4	NO		bb		0.000
17	FUNCTION2 PFK	30.88	5.387e3					1.1	NO		bb		0.000
18	FUNCTION2 PFK	30.74	9.391e3					1.6	NO		bb		0.000
19	FUNCTION2 PFK	30.45	4.497e3					1.0	NO		bb		0.000
20	FUNCTION2 PFK	30.37	7.979e3					1.3	NO		bb		0.000
21	FUNCTION2 PFK	30.15	2.598e3					0.7	NO		bb		0.000

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	32.89	1.057e7					157.9	YES		bd		0.000
2	FUNCTION3 PFK	36.56	3.158e4					2.3	NO		db		0.000
3	FUNCTION3 PFK	36.48	1.085e4					1.9	NO		bd		0.000
4	FUNCTION3 PFK	36.40	1.079e3					0.5	NO		bb		0.000
5	FUNCTION3 PFK	36.31	1.702e3					0.5	NO		bb		0.000
6	FUNCTION3 PFK	35.98	1.905e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	35.93	4.136e3					1.0	NO		db		0.000
8	FUNCTION3 PFK	35.81	2.295e4					1.2	NO		bd		0.000
9	FUNCTION3 PFK	35.55	4.587e4					5.3	YES		db		0.000
10	FUNCTION3 PFK	35.06	2.617e6					33.8	YES		dd		0.000
11	FUNCTION3 PFK	34.79	1.815e6					49.0	YES		dd		0.000
12	FUNCTION3 PFK	34.54	5.729e6					64.1	YES		dd		0.000
13	FUNCTION3 PFK	34.12	1.454e7					88.5	YES		dd		0.000
14	FUNCTION3 PFK	33.52	7.459e6					121.9	YES		dd		0.000
15	FUNCTION3 PFK	33.20	2.793e6					139.3	YES		dd		0.000
16	FUNCTION3 PFK	33.17	1.279e6					140.9	YES		dd		0.000
17	FUNCTION3 PFK	33.01	6.069e6					151.0	YES		dd		0.000
18	FUNCTION3 PFK	37.15	3.558e3					0.8	NO		bb		0.000
19	FUNCTION3 PFK	37.00	1.074e3					0.5	NO		bb		0.000
20	FUNCTION3 PFK	36.88	1.425e4					1.8	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.95	2.324e3					0.8	NO		bb		
2	FUNCTION4 PFK	37.74	3.553e4					2.8	NO		bb		

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.93	8.681e3					1.5	NO		db		
2	FUNCTION5 PFK	43.86	4.517e3					1.3	NO		dd		
3	FUNCTION5 PFK	43.84	6.998e3					1.8	NO		dd		
4	FUNCTION5 PFK	43.78	6.787e3					1.2	NO		bd		
5	FUNCTION5 PFK	43.55	3.330e3					1.2	NO		bb		
6	FUNCTION5 PFK	43.37	6.415e3					1.3	NO		bb		
7	FUNCTION5 PFK	43.28	5.529e3					1.4	NO		bb		
8	FUNCTION5 PFK	43.15	4.462e3					1.5	NO		bb		
9	FUNCTION5 PFK	43.09	9.499e3					2.5	NO		bb		
10	FUNCTION5 PFK	45.52	1.961e3					0.6	NO		db		
11	FUNCTION5 PFK	45.49	1.885e3					0.7	NO		bd		
12	FUNCTION5 PFK	45.40	3.340e3					0.9	NO		bb		
13	FUNCTION5 PFK	45.36	5.840e3					1.6	NO		bb		
14	FUNCTION5 PFK	45.05	3.643e3					1.0	NO		bb		
15	FUNCTION5 PFK	44.95	1.592e3					0.6	NO		bb		
16	FUNCTION5 PFK	44.91	9.940e3					1.6	NO		bb		
17	FUNCTION5 PFK	44.55	6.818e3					1.7	NO		db		
18	FUNCTION5 PFK	44.50	4.655e3					1.3	NO		bd		
19	FUNCTION5 PFK	44.46	6.097e3					1.7	NO		db		
20	FUNCTION5 PFK	44.42	1.873e4					3.0	NO		bd		
21	FUNCTION5 PFK	44.27	8.248e3					1.9	NO		db		
22	FUNCTION5 PFK	44.23	8.757e3					1.8	NO		bd		
23	FUNCTION5 PFK	44.16	3.588e3					1.2	NO		bb		
24	FUNCTION5 PFK	44.05	7.815e3					1.3	NO		db		
25	FUNCTION5 PFK	43.98	5.746e3					1.3	NO		bd		
26	FUNCTION5 PFK	45.93	2.551e3					1.0	NO		bb		
27	FUNCTION5 PFK	45.89	2.286e3					0.9	NO		bb		
28	FUNCTION5 PFK	45.79	8.025e2					0.5	NO		bb		
29	FUNCTION5 PFK	45.74	4.665e3					1.2	NO		bb		
30	FUNCTION5 PFK	45.69	7.334e2					0.5	NO		bb		

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.82	7.673e1					2.3	NO		bb		0.000
2	FUNCTION1 HXCD...	26.17	8.681e1					2.7	NO		bb		0.000
3	FUNCTION1 HXCD...	25.87	9.447e1					2.7	NO		bb		0.000
4	FUNCTION1 HXCD...	25.36	1.008e2					3.6	YES		bb		0.000
5	FUNCTION1 HXCD...	21.55	1.350e2					4.1	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.48	7.530e1					1.9	NO		bb		0.000
2	FUNCTION2 HPCD...	29.33	1.478e2					3.2	YES		db		0.000
3	FUNCTION2 HPCD...	29.25	1.232e2					2.7	NO		bd		0.000
4	FUNCTION2 HPCD...	28.21	9.261e1					3.8	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	34.13	8.786e1					2.6	NO		bb		0.000
2	FUNCTION3 OCDPE	32.74	8.781e1					2.7	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.66	7.028e1					2.5	NO		bb		0.000
2	FUNCTION4 NCDPE	37.66	7.847e1					2.4	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
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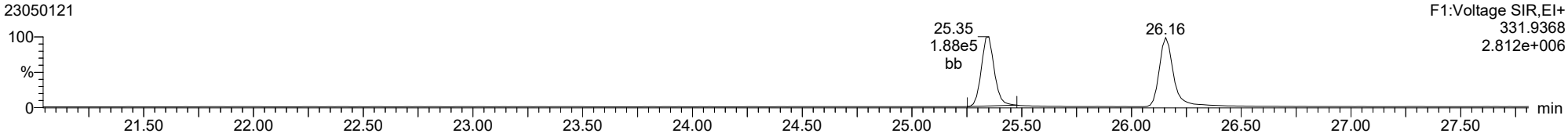

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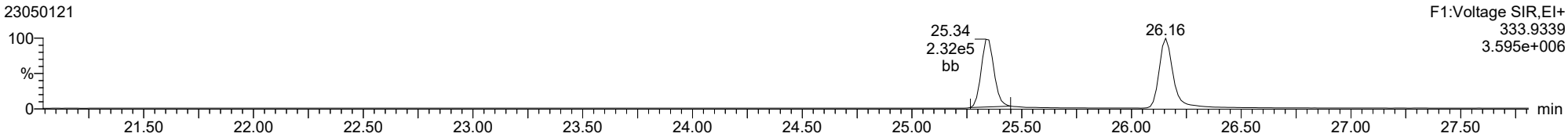

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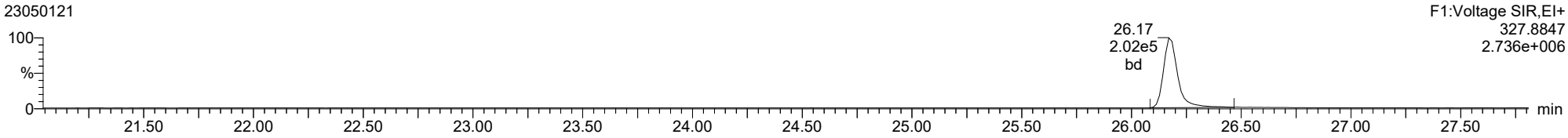

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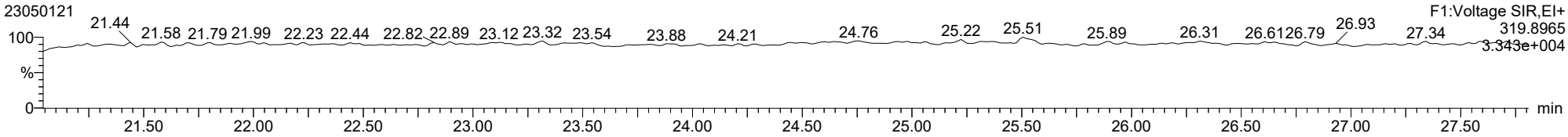

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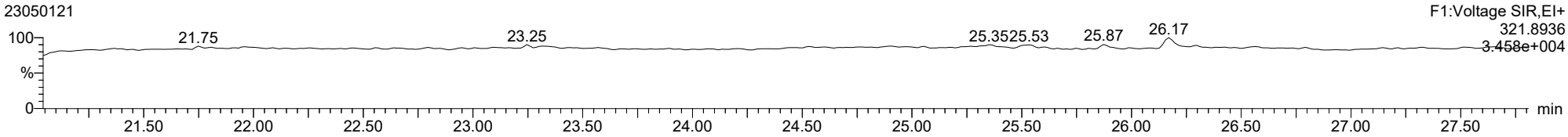

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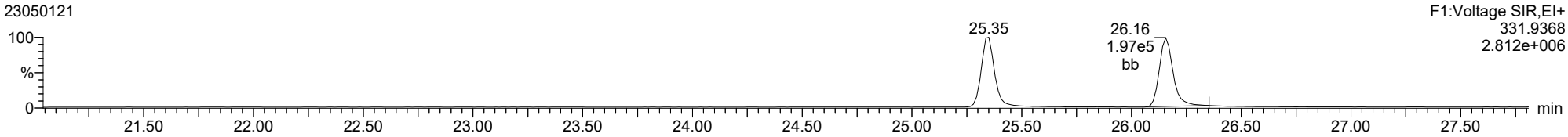

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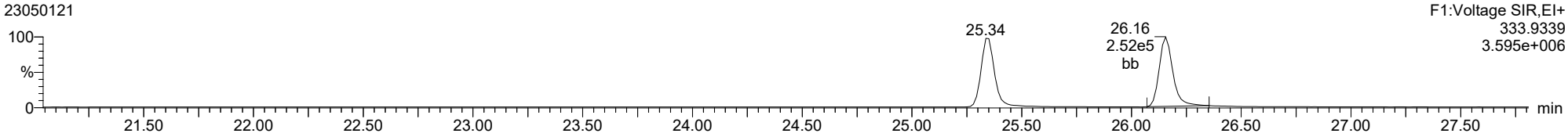

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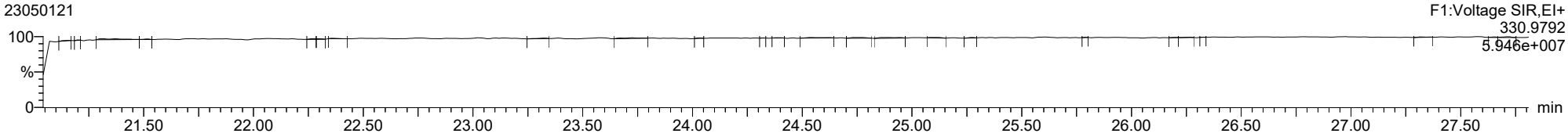

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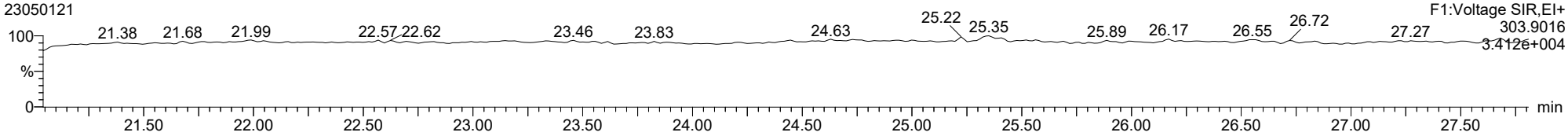

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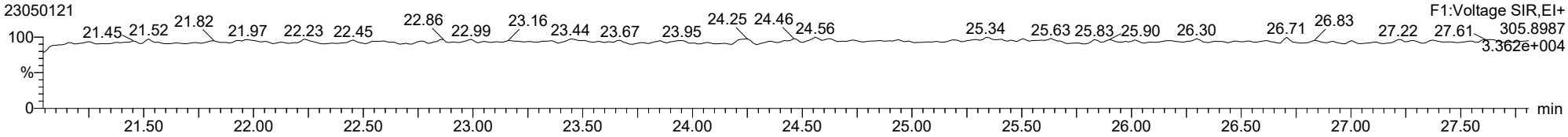

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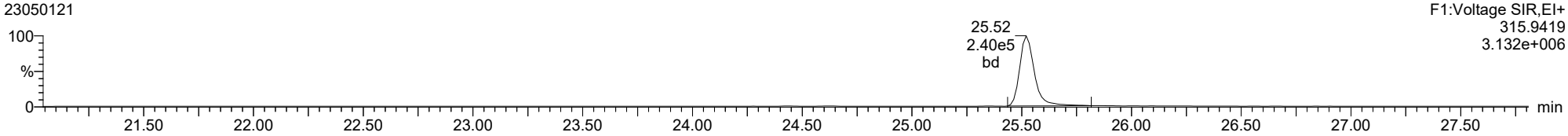

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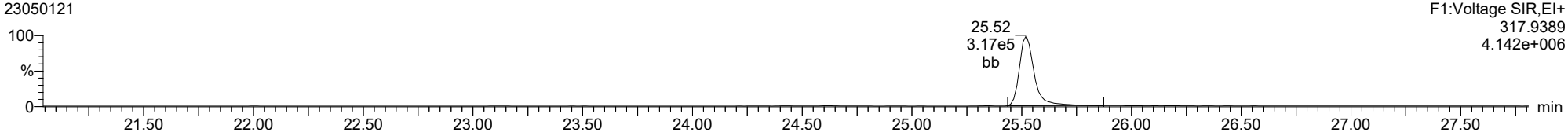

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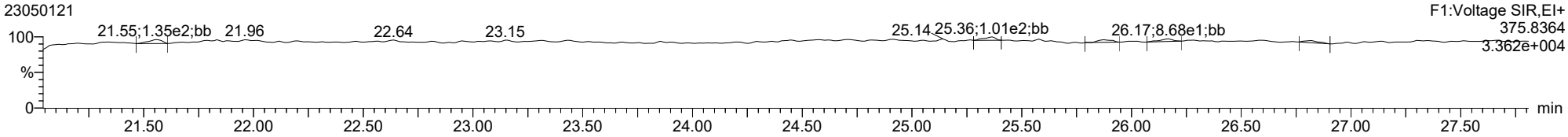

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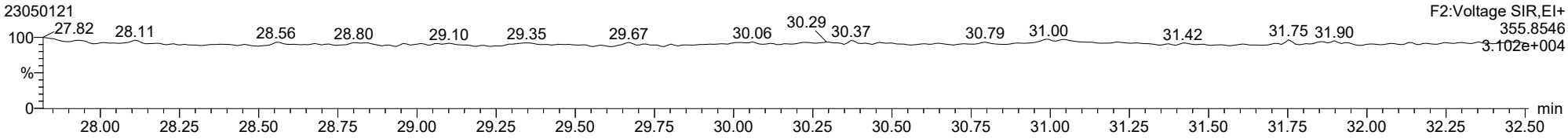

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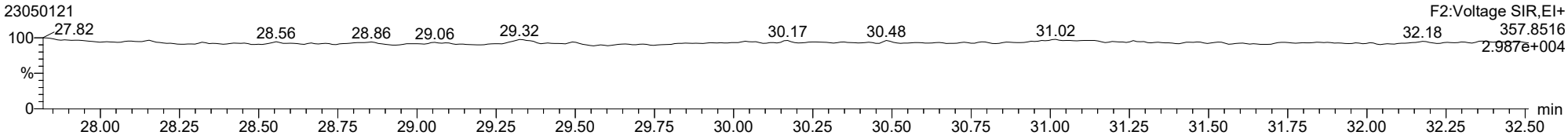

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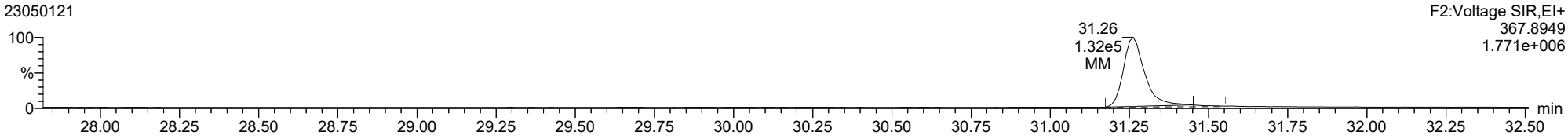

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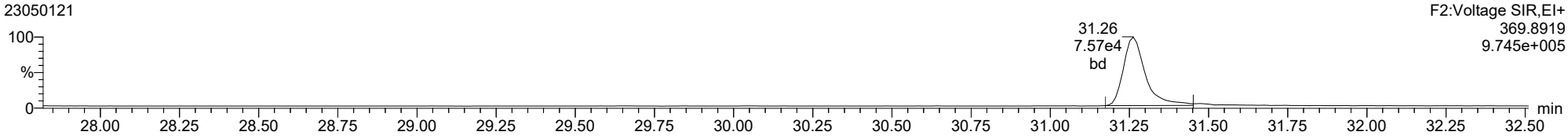

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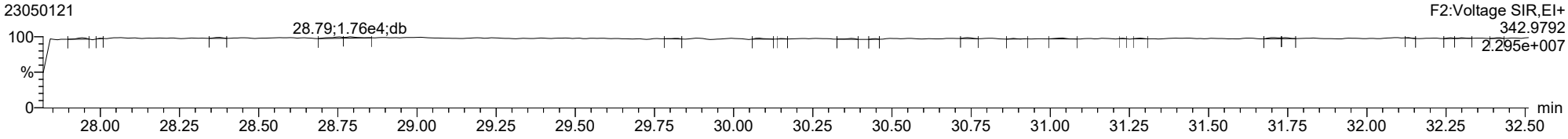

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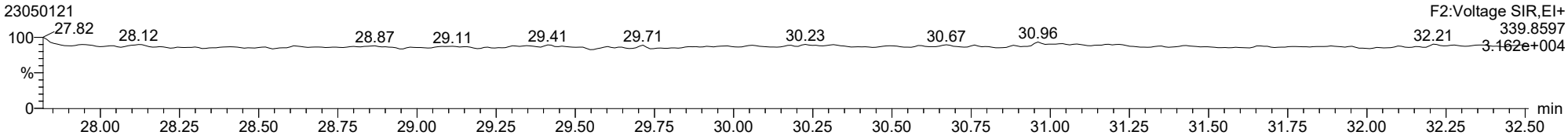

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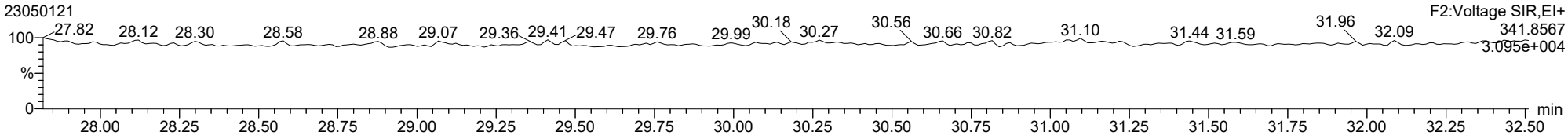

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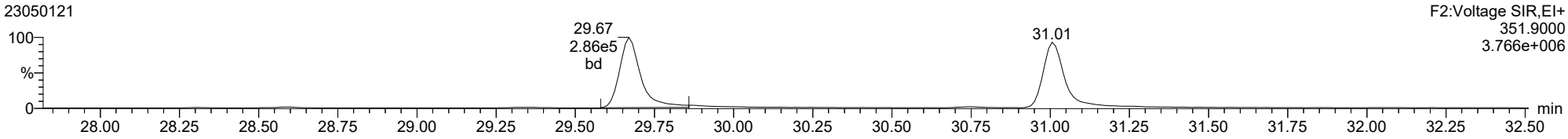

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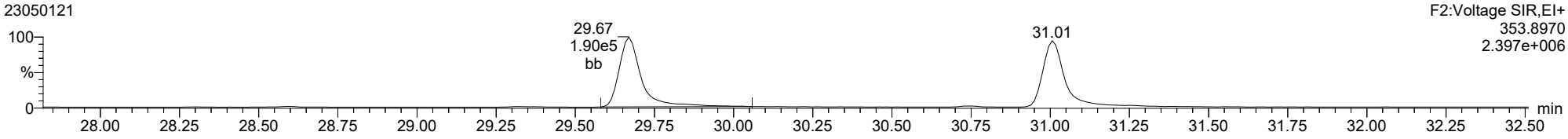

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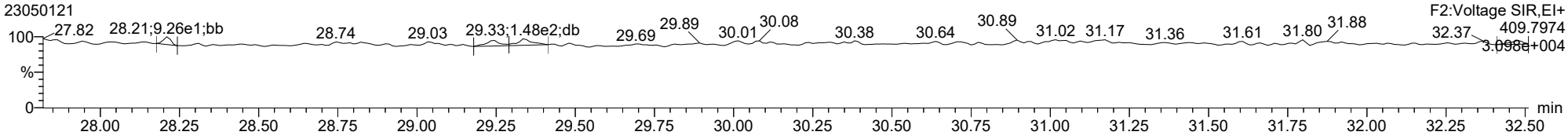

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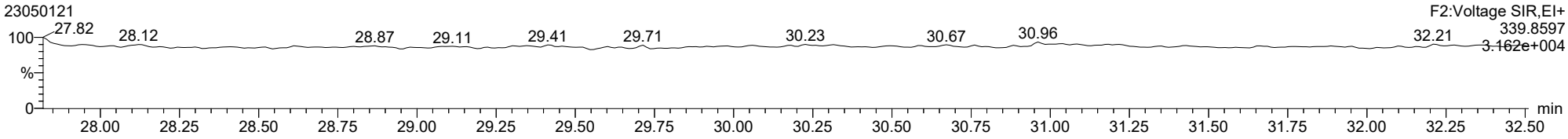

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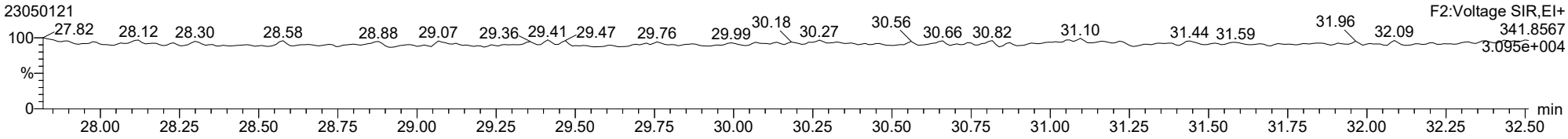

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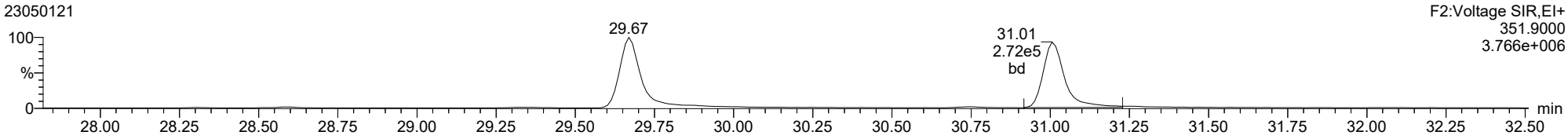

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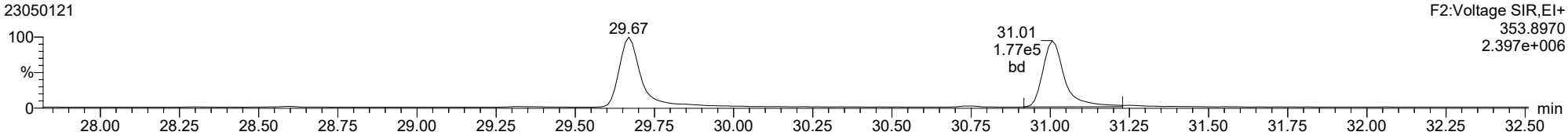

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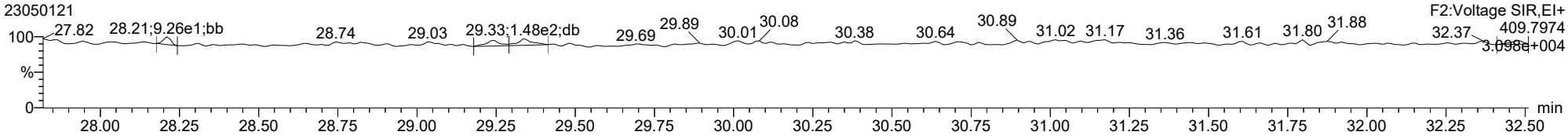

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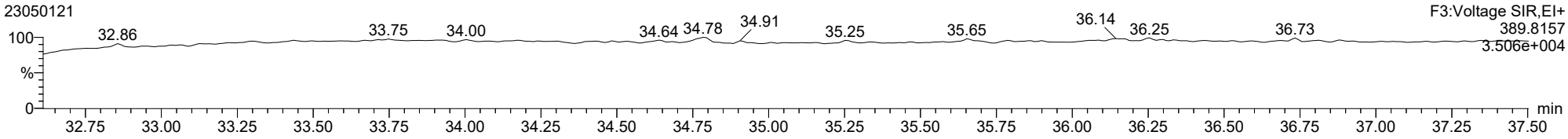

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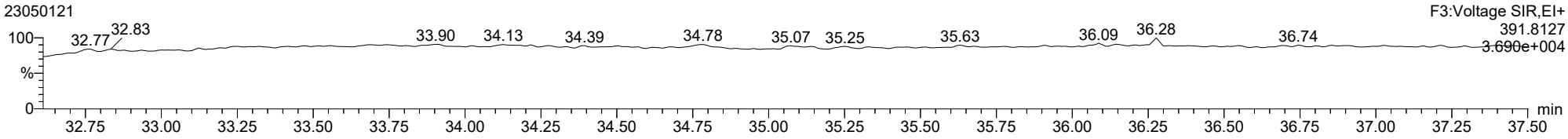

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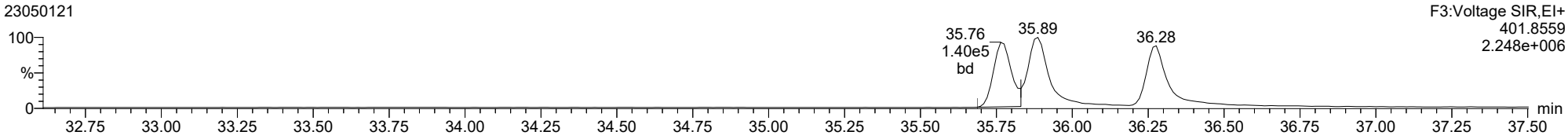

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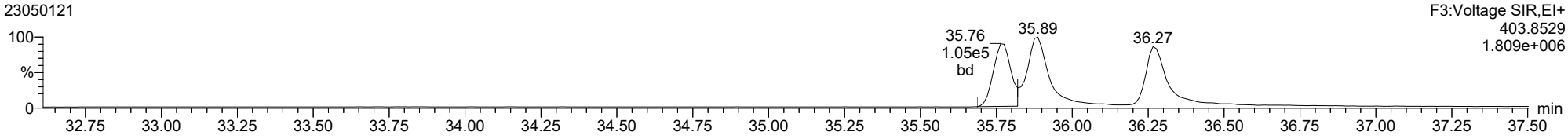

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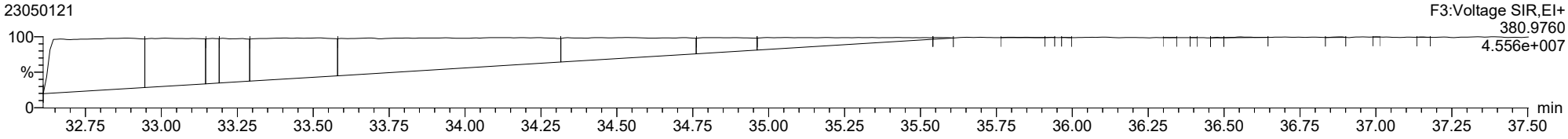

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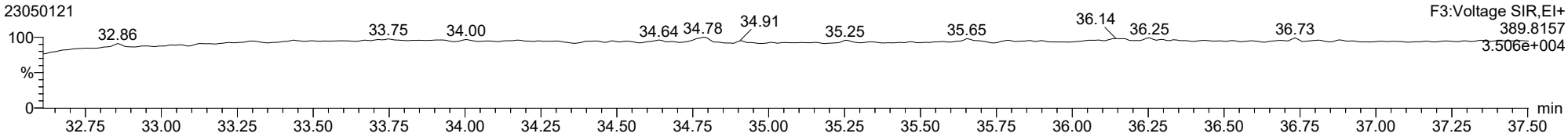

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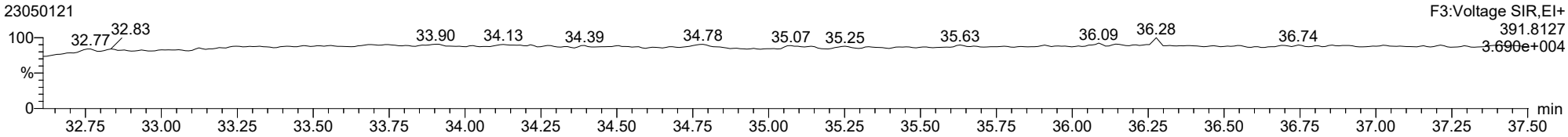

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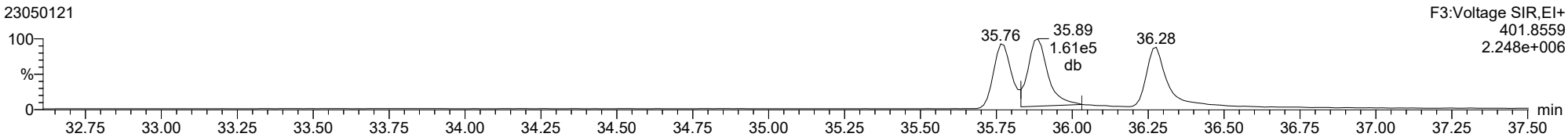

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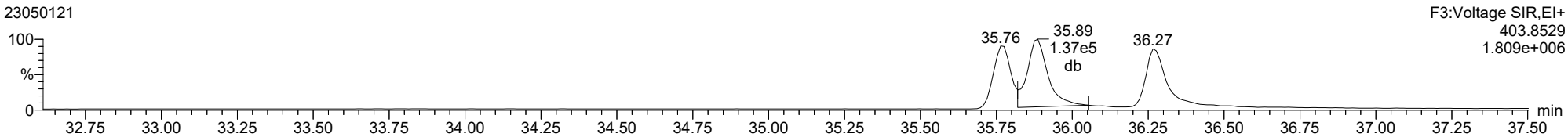

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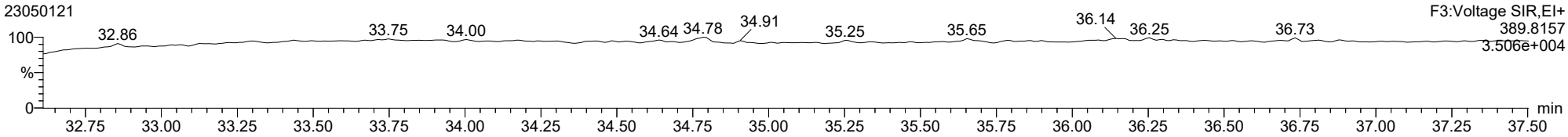

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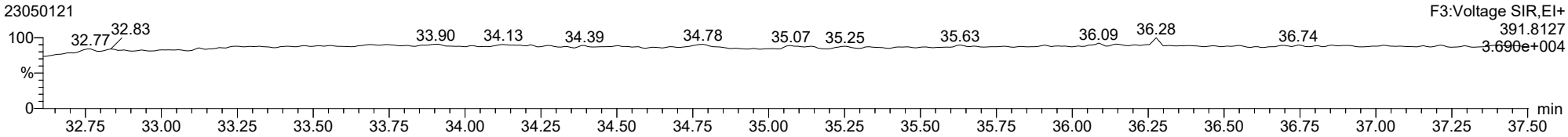

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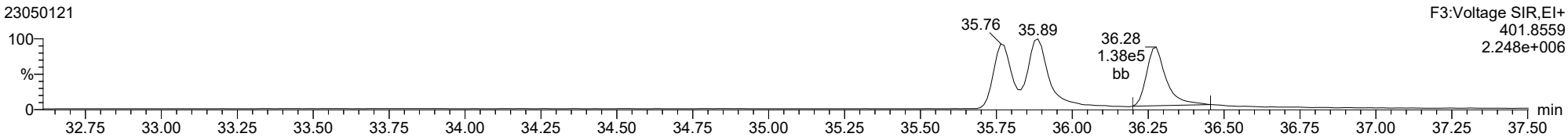

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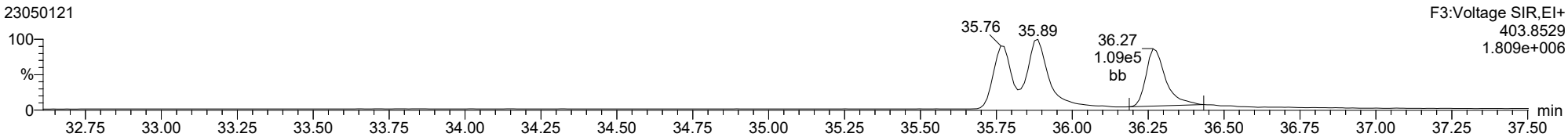

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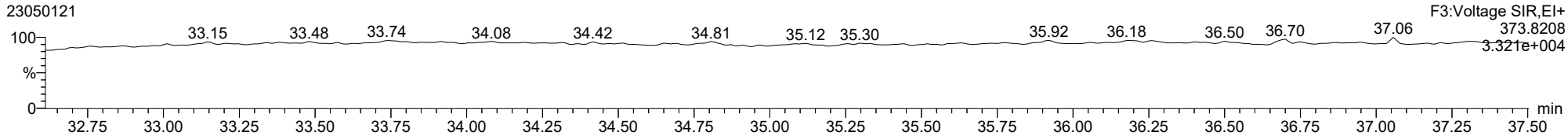

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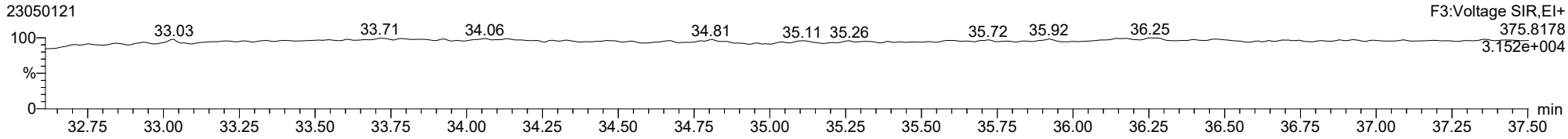

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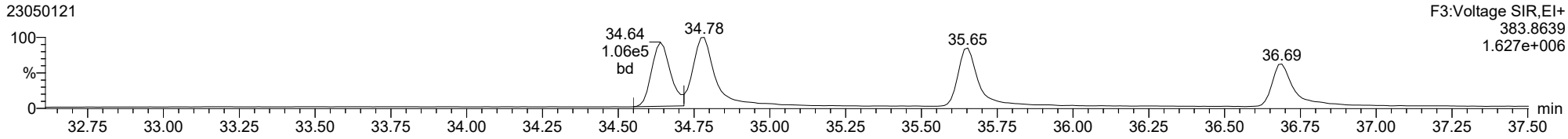

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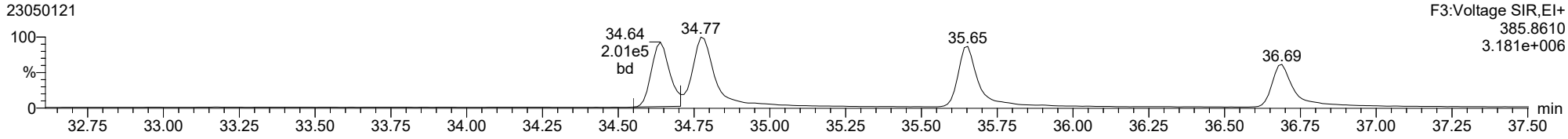

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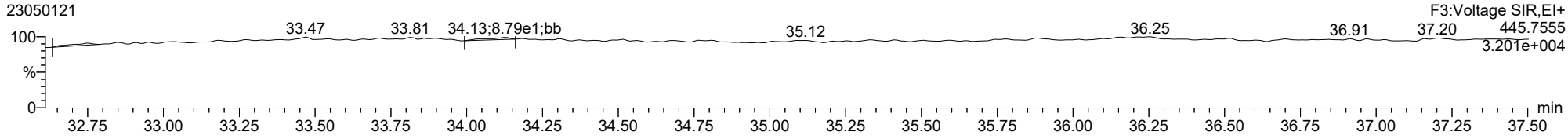

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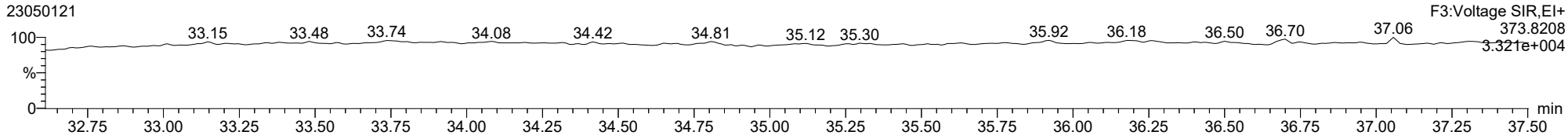

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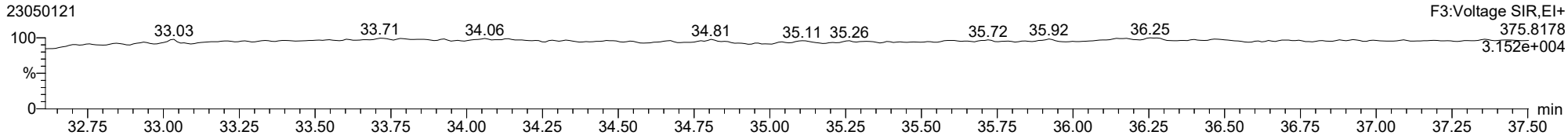

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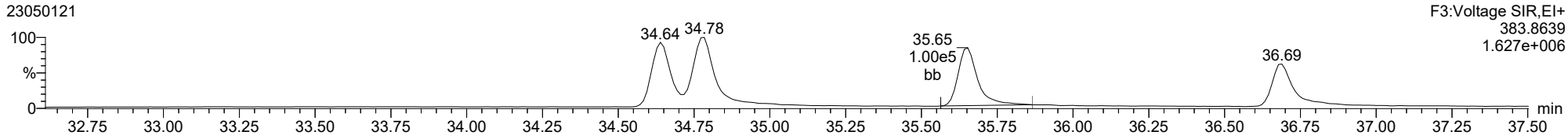

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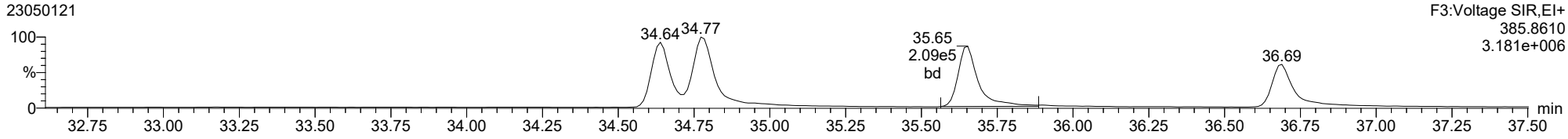

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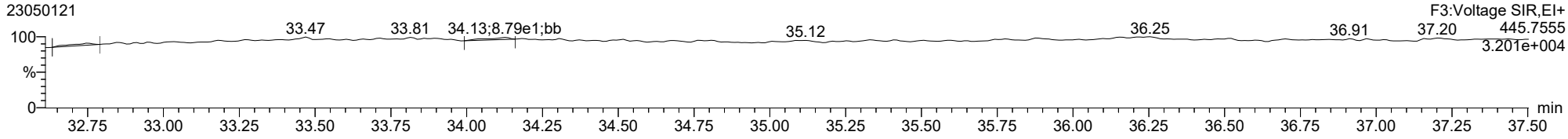

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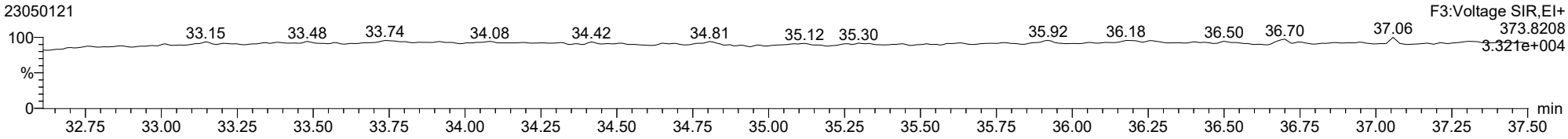

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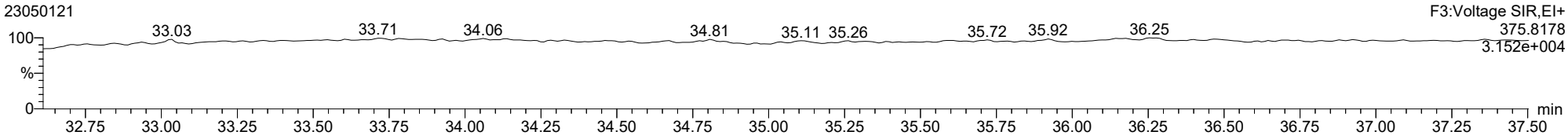

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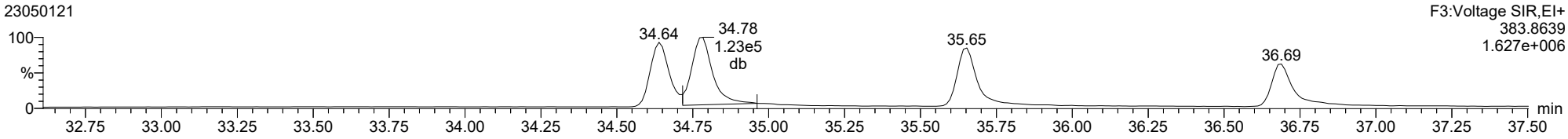

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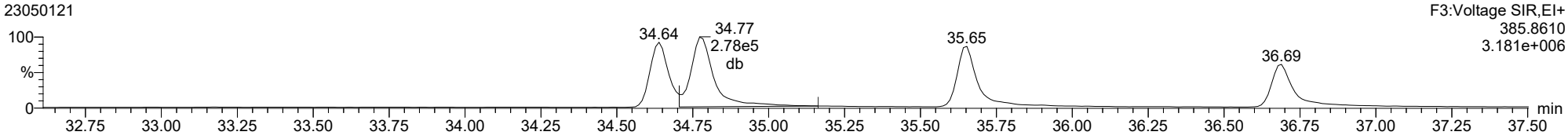

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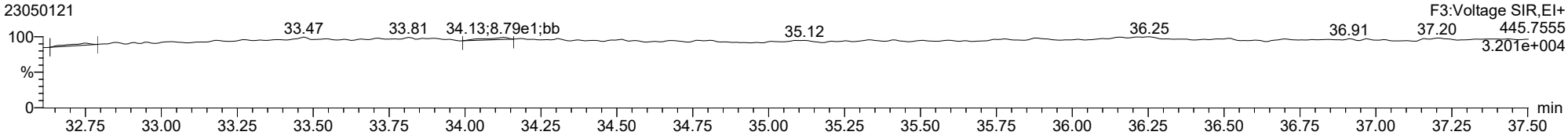

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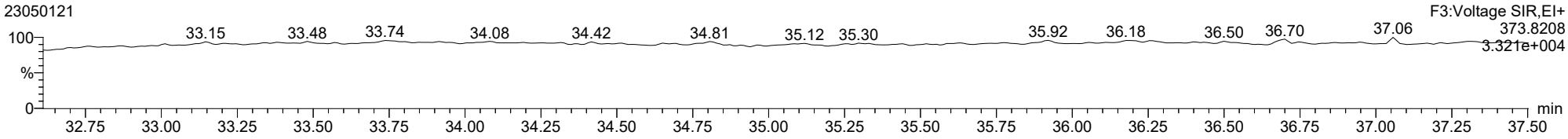

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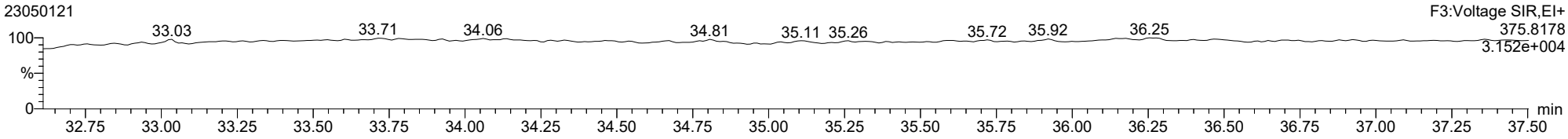

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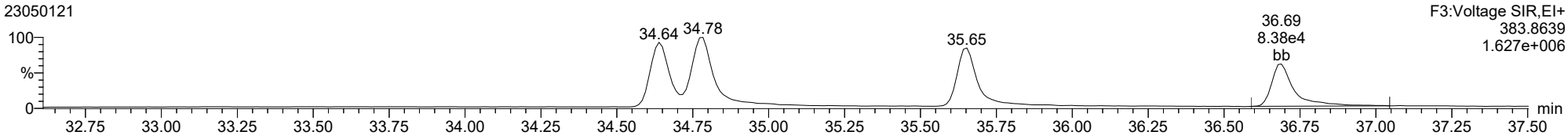

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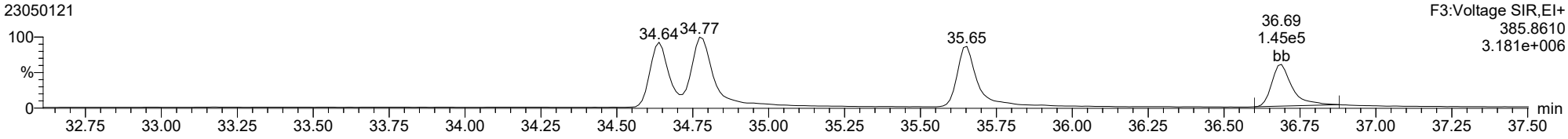

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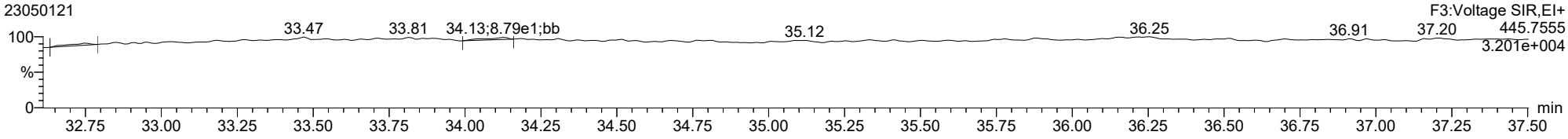

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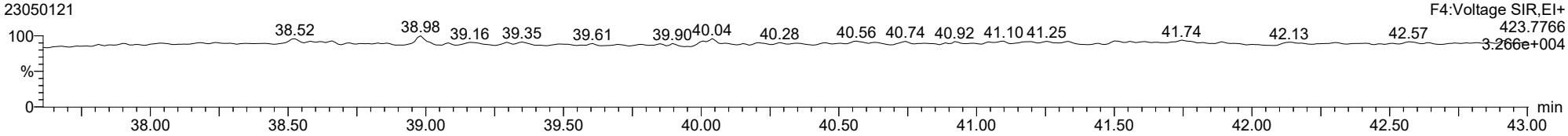

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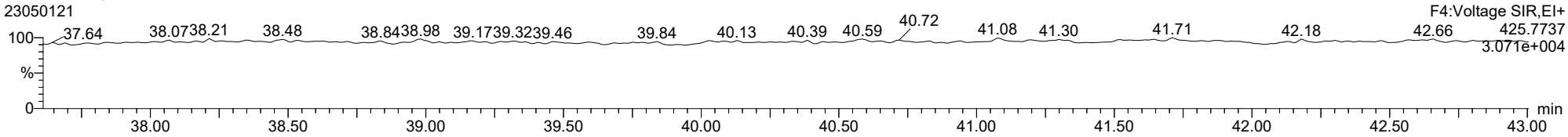

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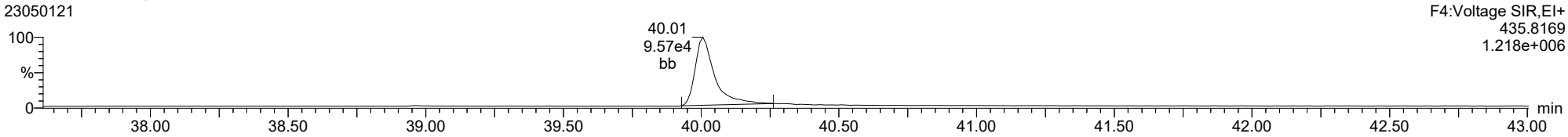

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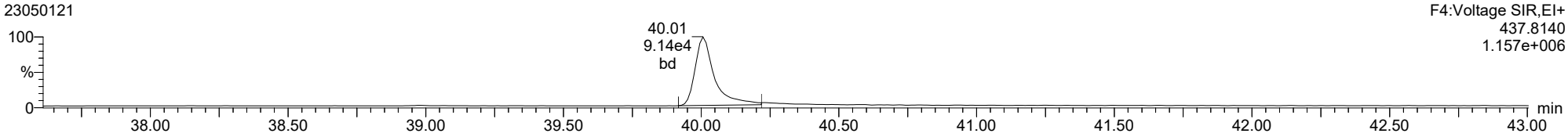

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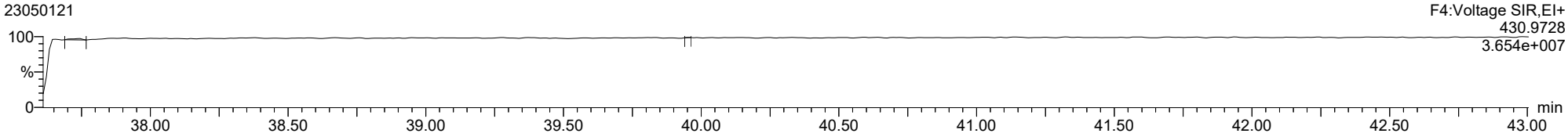

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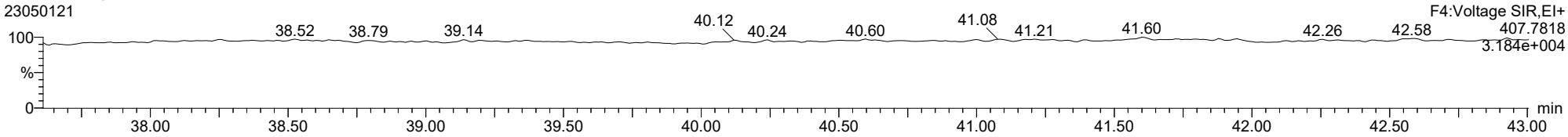

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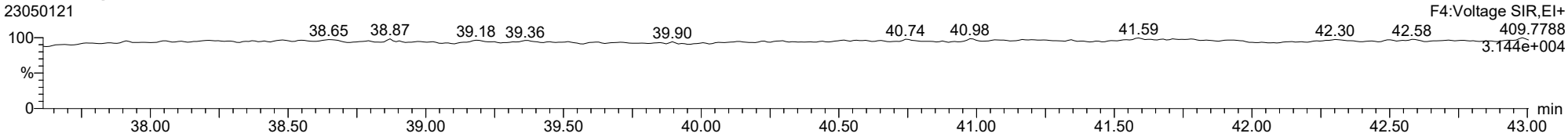

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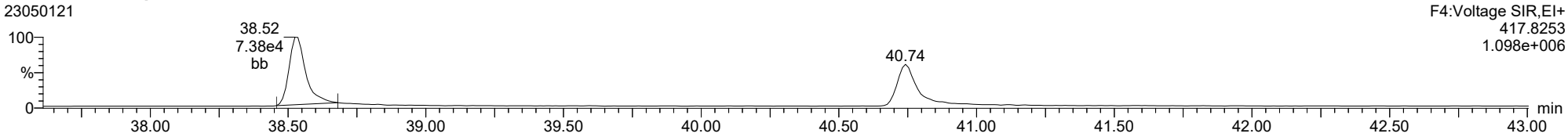

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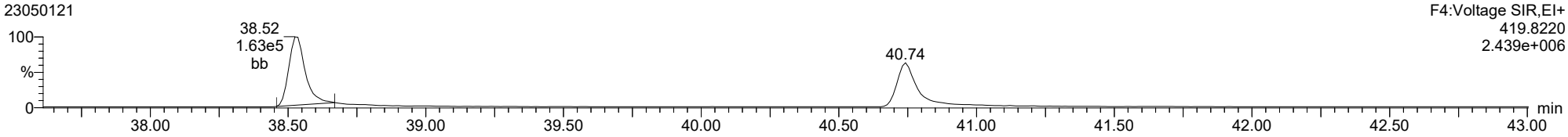

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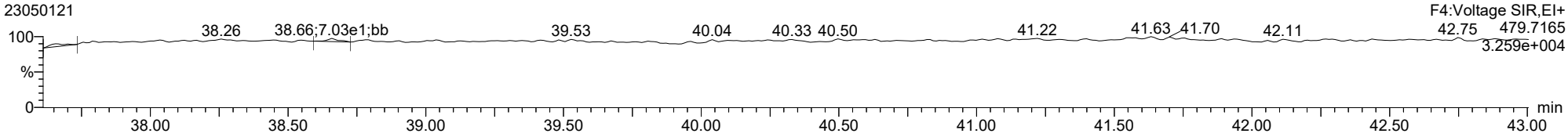

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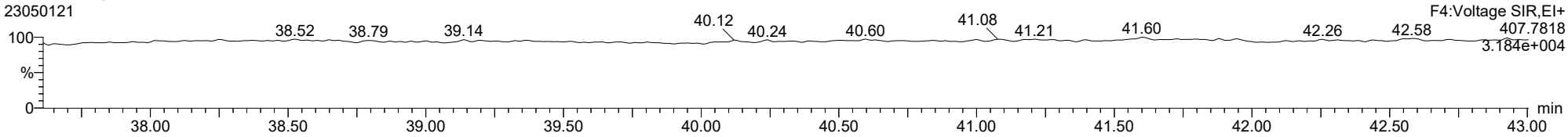

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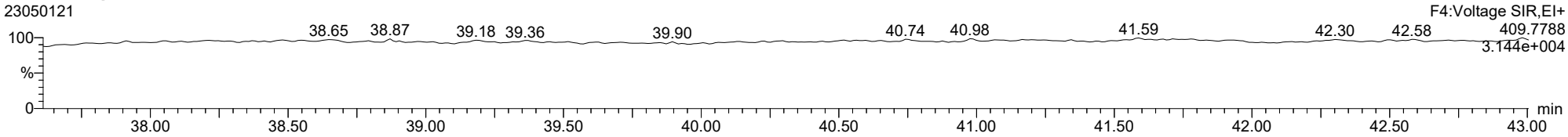

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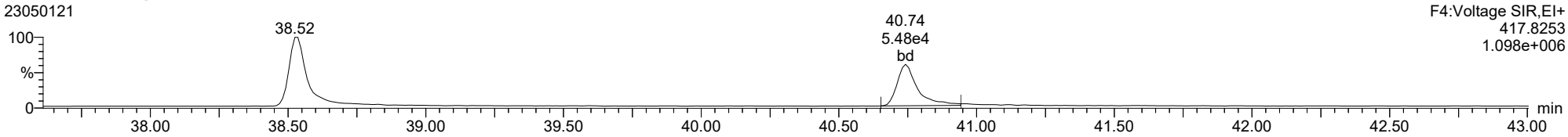

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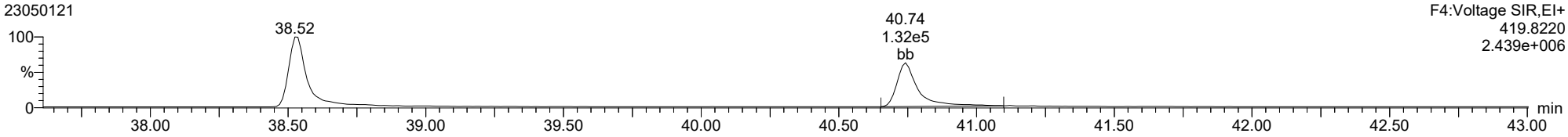

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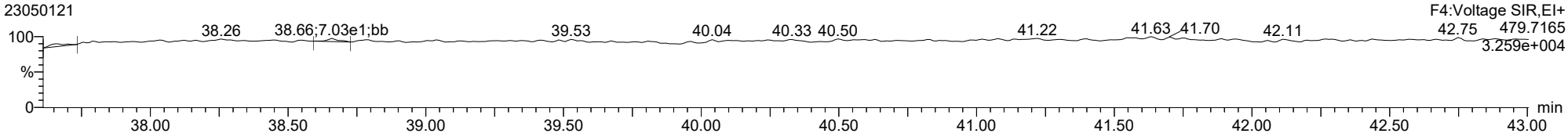

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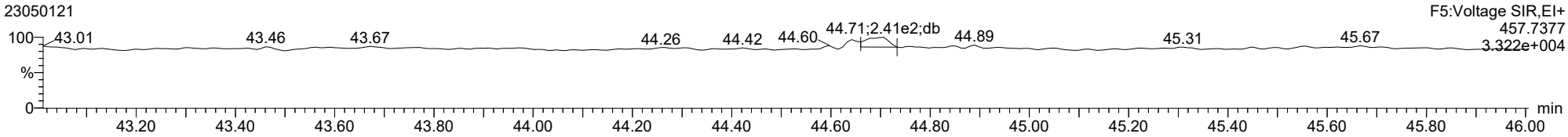

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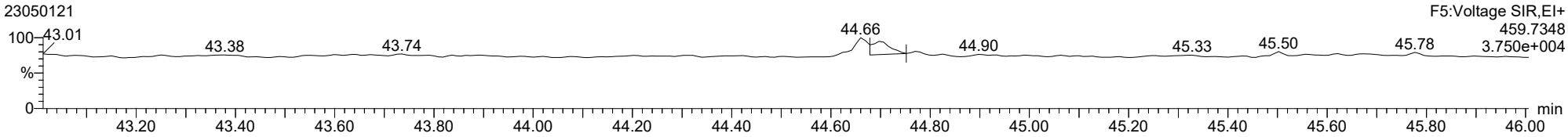

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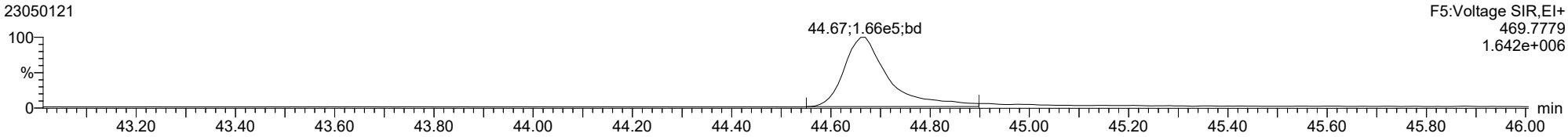

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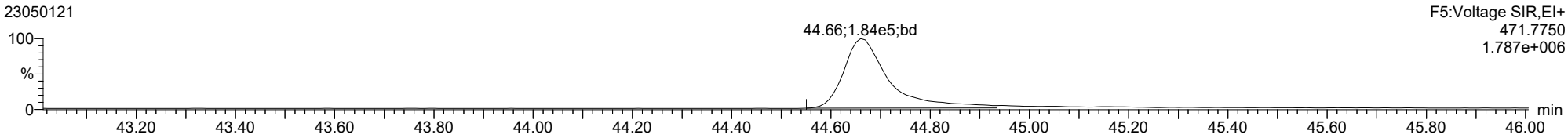
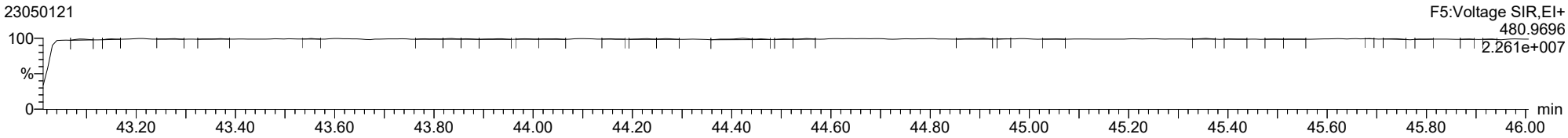


FUNCTION5 PFK



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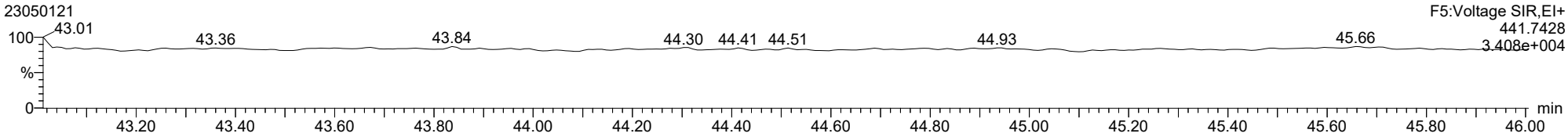
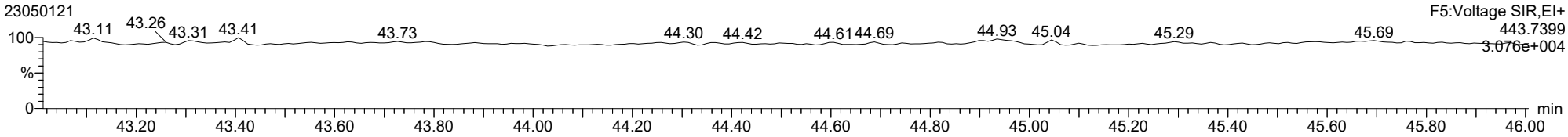
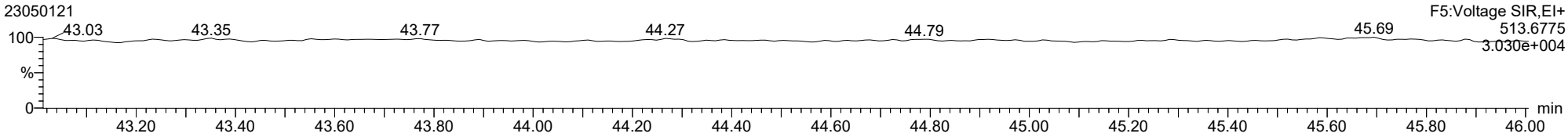


OCDF

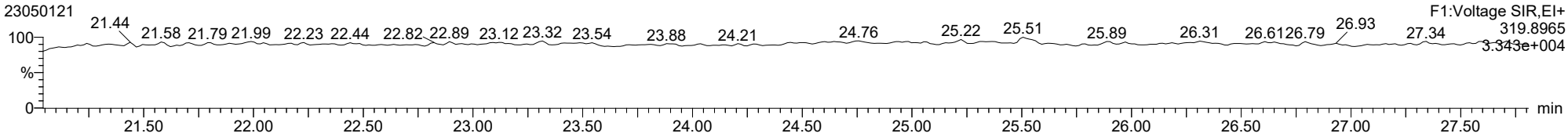


FUNCTION5 DCDPE

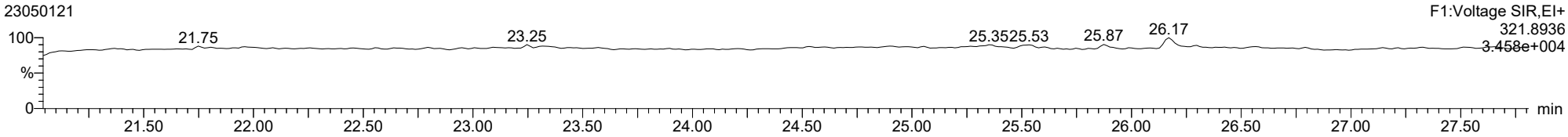


ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

Total-tetradioxins



Total-tetradioxins



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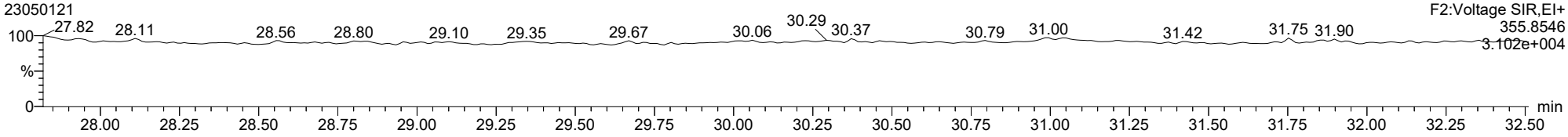

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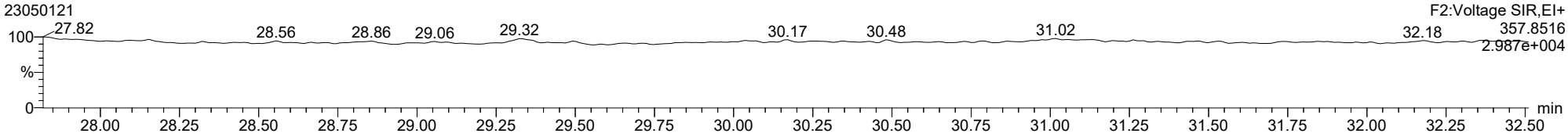
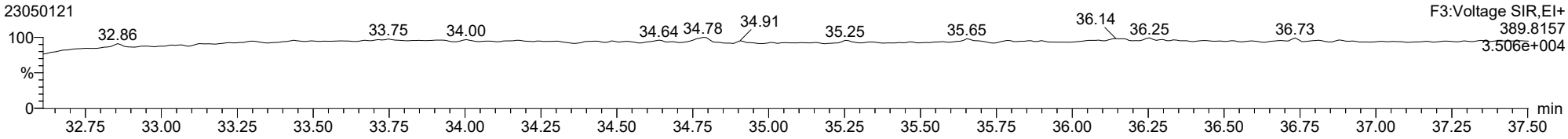
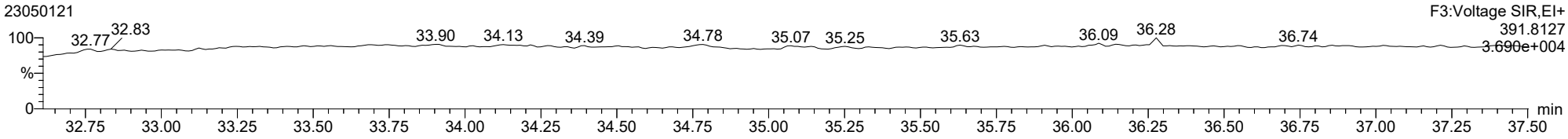


ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

Total-hexadioxins



Total-hexadioxins



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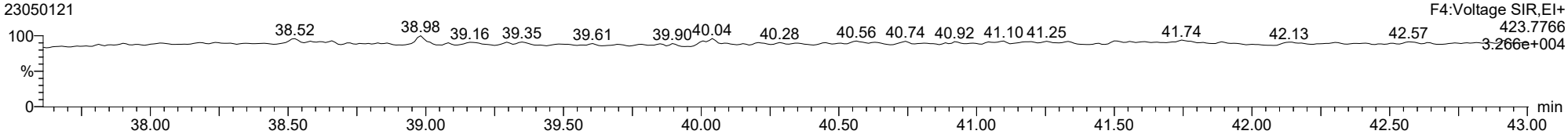
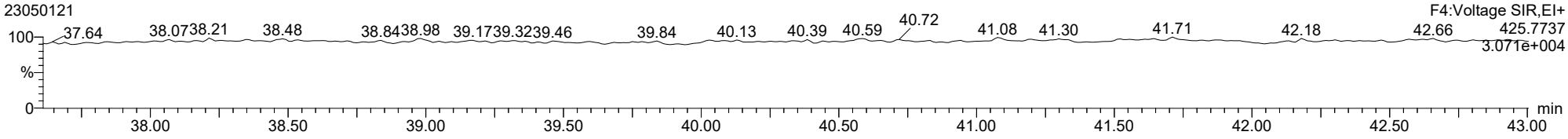


Total-heptadioxins



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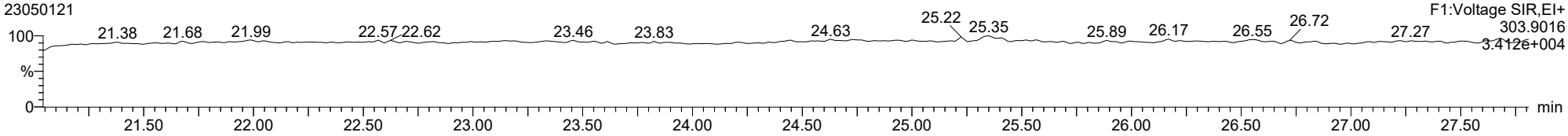
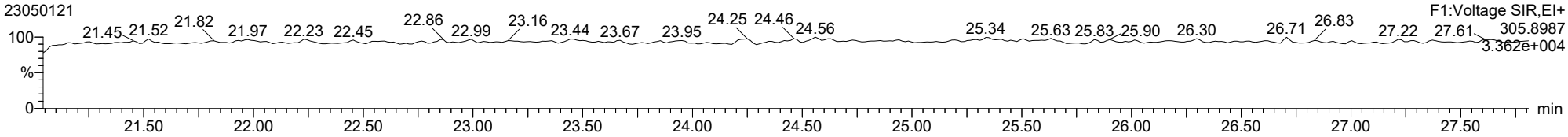
Printed: Wednesday, May 10, 2023 16:27:54 Pacific Daylight Time

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

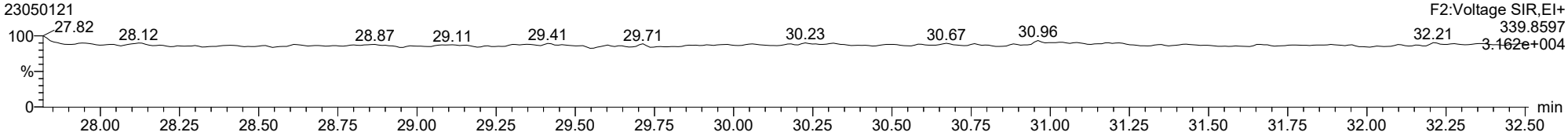
Total-tetrafurans



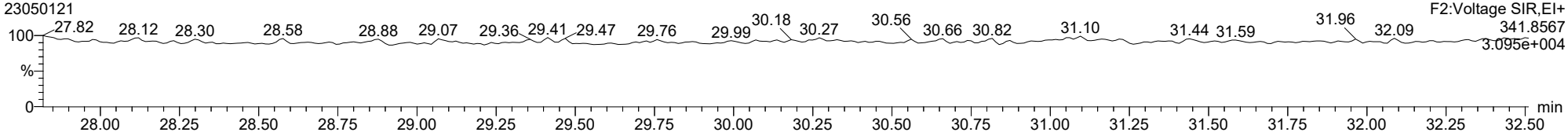
Total-tetrafurans



Total-pentafurans



Total-pentafurans



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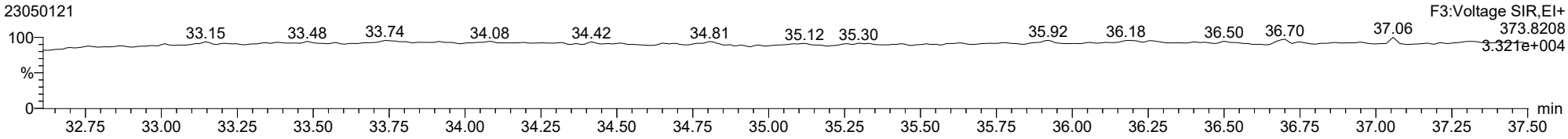
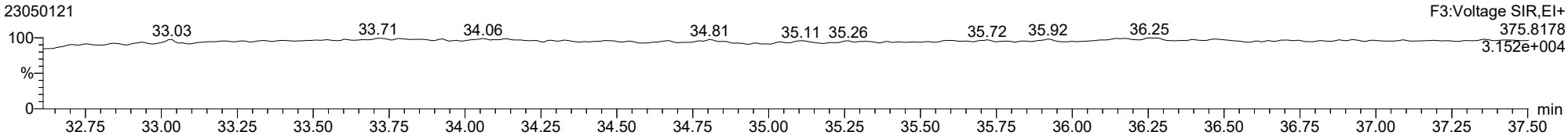
Last Altered: Wednesday, May 10, 2023 16:26:38 Pacific Daylight Time
Printed: Wednesday, May 10, 2023 16:27:54 Pacific Daylight Time

ID: DBLK25, Name: 23050121, Date: 02-May-2023, Time: 02:53:26, Conditions: AUTOSPEC01, User: pk

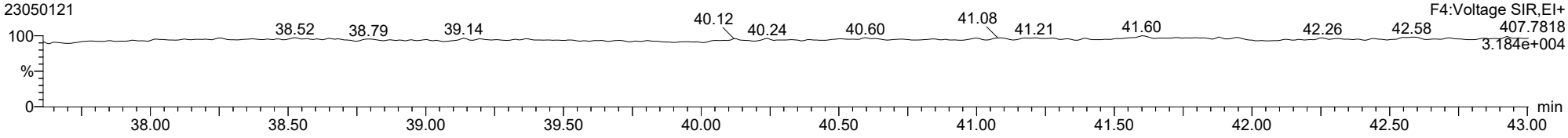
Total-hexafurans



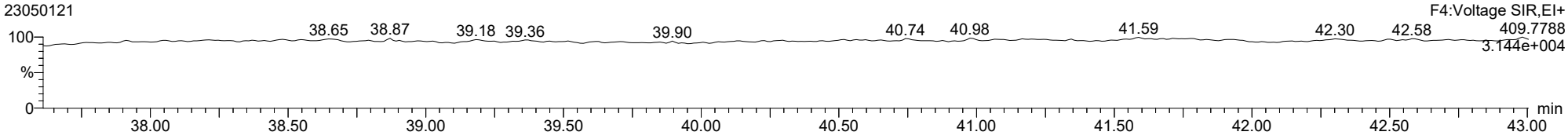
Total-hexafurans



Total-heptafurans



Total-heptafurans



LCS RECOVERY
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 03:42
Batch:	BLD0657	Laboratory ID:	BLD0657-BS2
Preparation:	EPA 1613	Sequence Name:	LCS
Initial/Final:	10 g / 20 uL		

COMPOUND	SPIKE ADDED (ng/kg wet)	LCS CONCENTRATION (ng/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
2,3,7,8-TCDF	20.0	19.3		96.3	75 - 158
2,3,7,8-TCDD	20.0	19.7		98.7	67 - 158
1,2,3,7,8-PeCDF	100	122		122	80 - 134
2,3,4,7,8-PeCDF	100	122		122	68 - 160
1,2,3,7,8-PeCDD	100	128		128	70 - 142
1,2,3,4,7,8-HxCDF	100	101		101	72 - 134
1,2,3,6,7,8-HxCDF	100	121		121	84 - 130
2,3,4,6,7,8-HxCDF	100	111		111	70 - 156
1,2,3,7,8,9-HxCDF	100	107		107	78 - 130
1,2,3,4,7,8-HxCDD	100	100		100	70 - 164
1,2,3,6,7,8-HxCDD	100	115		115	76 - 134
1,2,3,7,8,9-HxCDD	100	117		117	64 - 162
1,2,3,4,6,7,8-HpCDF	100	104		104	82 - 122
1,2,3,4,7,8,9-HpCDF	100	113		113	78 - 138
1,2,3,4,6,7,8-HpCDD	100	96.3		96.3	70 - 140
OCDF	200	176		88.2	63 - 170
OCDD	200	208	B	104	78 - 144

* Indicates values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230501IHQC.qld
Last Altered: Wednesday, May 10, 2023 16:26:38 Pacific Daylight Time
Printed: Wednesday, May 10, 2023 16:28:06 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230501.mdb 02 May 2023 09:11:55
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.549	1.001	1.570e4	2.013e4	0.702	0.780	0.770	609	945	2.13e5	3.03e5	350.6	320.6	NO	bb	bb	9.629
12378-PeCDF	29.691	1.001	1.182e5	7.631e4	0.679	1.549	1.550	1698	1859	1.72e6	1.08e6	1012.9	582.8	NO	bb	bb	60.848
23478-PeCDF	31.028	1.001	1.209e5	7.666e4	0.786	1.577	1.550	1698	1859	1.73e6	1.09e6	1017.3	583.7	NO	bb	bb	60.756
123478-HxCDF	34.661	1.001	9.812e4	7.975e4	1.166	1.230	1.240	1871	1817	1.42e6	1.13e6	759.3	624.3	NO	bd	bd	50.749
234678-HxCDF	35.664	1.000	1.007e5	8.170e4	1.140	1.233	1.240	1871	1817	1.30e6	1.07e6	694.3	588.3	NO	bd	bd	55.579
123678-HxCDF	34.795	1.000	1.278e5	1.030e5	1.091	1.241	1.240	1871	1817	1.58e6	1.27e6	842.6	698.8	NO	dd	dd	60.547
123789-HxCDF	36.700	1.000	7.638e4	6.082e4	1.137	1.256	1.240	1871	1817	9.76e5	7.59e5	521.7	417.7	NO	bd	bd	53.476
1234678-HpCDF	38.547	1.000	6.577e4	6.372e4	1.003	1.032	1.050	3496	1601	9.90e5	9.79e5	283.1	611.5	NO	bb	bb	51.784
1234789-HpCDF	40.764	1.001	4.849e4	4.712e4	0.953	1.029	1.050	3496	1601	5.73e5	5.50e5	163.8	343.3	NO	bd	bd	56.262
OCDF	44.916	1.006	5.529e4	6.097e4	0.778	0.907	0.890	1533	2962	6.07e5	7.07e5	396.0	238.8	NO	bb	bb	88.209
2378-TCDD	26.170	1.001	2.106e4	2.849e4	1.149	0.739	0.770	886	769	2.88e5	3.92e5	325.0	509.0	NO	bd	bd	9.869
12378-PeCDD	31.285	1.001	8.781e4	5.420e4	1.022	1.620	1.550	1439	885	1.28e6	7.62e5	891.7	861.3	NO	bb	bb	64.102
123478-HxCDD	35.786	1.001	7.105e4	5.565e4	0.996	1.277	1.240	1036	1402	1.11e6	8.38e5	1067.9	597.8	NO	bd	bd	50.080
123678-HxCDD	35.898	1.000	8.905e4	6.856e4	1.001	1.299	1.240	1036	1402	1.21e6	9.56e5	1163.5	682.1	NO	db	db	57.258
123789-HxCDD	36.288	1.011	7.583e4	6.511e4	0.907	1.165	1.240	1036	1402	1.02e6	7.93e5	985.3	565.5	NO	bd	bd	58.729
1234678-HpCDD	40.029	1.000	5.103e4	4.959e4	1.039	1.029	1.050	1489	1882	7.09e5	6.89e5	476.3	366.4	NO	bb	bb	48.155
OCDD	44.678	1.000	7.340e4	8.881e4	0.920	0.826	0.890	1813	2387	7.58e5	8.95e5	418.2	374.9	NO	bd	bd	104.056
13C-2378-TCDF	25.520	1.007	2.276e5	3.028e5	1.620	0.752	0.770	1857	1497	3.09e6	4.13e6	1665.2	2761.8	NO	bd	bb	81.721
13C-12378-PeCDF	29.669	1.170	2.878e5	1.829e5	1.240	1.574	1.550	2857	2253	3.60e6	2.38e6	1259.6	1058.7	NO	bb	bd	94.730
13C-23478-PeCDF	31.006	1.223	2.488e5	1.648e5	1.118	1.510	1.550	2857	2253	3.32e6	2.20e6	1161.7	974.5	NO	bb	bb	92.373
13C-123478-HxCDF	34.639	0.955	1.016e5	1.990e5	1.168	0.510	0.510	1944	3121	1.47e6	2.87e6	756.3	918.4	NO	bd	bd	101.114
13C-123678-HxCDF	34.784	0.959	1.204e5	2.291e5	1.386	0.525	0.510	1944	3121	1.61e6	3.09e6	828.9	988.8	NO	db	db	99.053
13C-234678-HxCDF	35.653	0.983	9.613e4	1.919e5	1.129	0.501	0.510	1944	3121	1.34e6	2.61e6	687.2	836.9	NO	bb	bb	100.230
13C-123789-HxCDF	36.689	1.011	7.454e4	1.511e5	0.932	0.493	0.510	1944	3121	1.03e6	1.98e6	530.2	634.4	NO	bb	bb	95.175
13C-1234678-HpCDF	38.536	1.062	7.600e4	1.733e5	0.895	0.438	0.440	1952	2626	1.11e6	2.53e6	569.8	964.1	NO	bb	bb	109.454
13C-1234789-HpCDF	40.742	1.123	5.739e4	1.209e5	0.770	0.475	0.440	1952	2626	6.34e5	1.42e6	324.8	540.4	NO	bd	bb	91.034
13C-1234-TCDD	25.351	0.000	1.768e5	2.238e5	1.000	0.790	0.770	2069	1090	2.68e6	3.38e6	1296.7	3104.8	NO	bb	bb	100.000
13C-2378-TCDD	26.156	1.032	1.937e5	2.434e5	1.152	0.796	0.770	2069	1090	2.74e6	3.48e6	1324.8	3191.7	NO	bb	bb	94.693
13C-12378-PeCDD	31.262	1.233	1.363e5	8.052e4	0.829	1.693	1.550	989	843	1.72e6	1.03e6	1742.8	1225.6	NO	bb	bd	65.302
13C-123478-HxCDD	35.764	0.986	1.413e5	1.128e5	0.995	1.253	1.240	1798	1346	2.11e6	1.69e6	1174.2	1258.1	NO	bd	bd	100.378
13C-123678-HxCDD	35.887	0.989	1.595e5	1.155e5	1.157	1.380	1.240	1798	1346	2.28e6	1.68e6	1267.3	1251.4	NO	db	db	93.440
13C-1234678-HpCDD	40.018	1.103	1.049e5	9.625e4	0.840	1.090	1.050	1331	1687	1.24e6	1.14e6	933.4	673.6	NO	bb	bd	94.088
13C-OCDD	44.660	1.231	1.620e5	1.769e5	0.767	0.915	0.890	2185	1918	1.61e6	1.80e6	738.8	936.9	NO	bd	bd	173.552
13C-123789-HxCDD	36.277	0.000	1.448e5	1.097e5	1.000	1.320	1.240	1798	1346	1.87e6	1.48e6	1037.9	1098.7	NO	bb	bb	100.000
37CL-2378-TCDD	26.170	1.032	1.963e5		1.288			1458		2.63e6		1800.9			bb		38.056

Dataset: T:\Autospec\Processed Data Batch\230501IHQC.qld
Last Altered: Wednesday, May 10, 2023 16:26:38 Pacific Daylight Time
Printed: Wednesday, May 10, 2023 16:28:06 Pacific Daylight Time

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	609	945								
1289-TCDF					0.678		0.770	609	945								
13468-PECDF					1.246		1.550	600	830								
12389-PECDF					0.496		1.550	1698	1859								
123468-HXCDF					1.169		1.240	1871	1817								
1368-TCDD					1.015		0.770	886	769								
1289-TCDD					0.909		0.770	886	769								
12479-PECDD					2.301		1.550	1439	885								
12389-PECDD					1.184		1.550	1439	885								
124679-HXCDD					1.115		1.240	1036	1402								
1234679-HPCDD	38.993	0.974	3.402e2	4.980e2	1.137	0.683	1.050	1489	1882	5.99e3	8.58e3	4.0	4.6	YES	bb	bb	0.367
Total-tetrafurans			1.570e4		0.727			609		2.13e5							9.629
Total-penta1			0.000e0					600		0.00e0							
Total-pentafurans			2.391e5		0.654			1698		3.45e6							121.604
Total-hexafurans			4.030e5		1.141			1871		5.27e6							220.351
Total-heptafurans			1.143e5		0.978			3496		1.56e6							108.047
Total-Furans			8.274e5		0.922			609		1.11e7							547.840
Total-tetradioxins			2.156e4		1.024			886		2.94e5							10.108
Total-pentadioxins			8.781e4		1.502			1439		1.28e6							64.102
Total-hexadioxins			2.359e5		1.005			1036		3.33e6							166.067
Total-heptadioxins			5.103e4		1.088			1489		7.09e5							48.155
Total-Dioxins			4.697e5		1.130			886		6.38e6							392.488
Total-TEQ			1.297e6					886		1.75e7							940.328
FUNCTION1 PFK			5.223e5					357736		1.07e7							
FUNCTION2 PFK			3.871e5					168572		1.11e7							0.000
FUNCTION3 PFK			3.310e7					285059		1.45e7							0.000
FUNCTION4 PFK			1.984e5					204830		6.56e6							
FUNCTION5 PFK			1.173e7					132788		8.87e7							
FUNCTION1 HXCD...			8.392e2					528		1.06e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.041e3					1123		2.34e4							0.000
FUNCTION3 OCDPE			2.440e2					516		3.27e3							0.000
FUNCTION4 NCDPE			1.653e2					610		6.08e3							0.000
FUNCTION5 DCDPE			8.711e1					406		1.92e3							0.000

Method: T:\Autospec\Methods\Dioxin230501.mdb 02 May 2023 09:11:55
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.55	1.570e4	2.013e4	0.702	0.78	0.77	350.6	YES	NO	bb	bb	9.629

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.03	1.209e5	7.666e4	0.786	1.58	1.55	1017.3	YES	NO	bb	bb	60.756
2	12378-PeCDF	29.69	1.182e5	7.631e4	0.679	1.55	1.55	1012.9	YES	NO	bb	bb	60.848

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.66	1.007e5	8.170e4	1.140	1.23	1.24	694.3	YES	NO	bd	bd	55.579
2	123678-HxCDF	34.79	1.278e5	1.030e5	1.091	1.24	1.24	842.6	YES	NO	dd	dd	60.547
3	123478-HxCDF	34.66	9.812e4	7.975e4	1.166	1.23	1.24	759.3	YES	NO	bd	bd	50.749
4	123789-HxCDF	36.70	7.638e4	6.082e4	1.137	1.26	1.24	521.7	YES	NO	bd	bd	53.476

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.76	4.849e4	4.712e4	0.953	1.03	1.05	163.8	YES	NO	bd	bd	56.262
2	1234678-HpCDF	38.55	6.577e4	6.372e4	1.003	1.03	1.05	283.1	YES	NO	bb	bb	51.784

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.55	1.570e4	2.013e4	0.702	0.78	0.77	350.6	YES	NO	bb	bb	9.629
2	23478-PeCDF	31.03	1.209e5	7.666e4	0.786	1.58	1.55	1017.3	YES	NO	bb	bb	60.756
3	12378-PeCDF	29.69	1.182e5	7.631e4	0.679	1.55	1.55	1012.9	YES	NO	bb	bb	60.848
4	234678-HxCDF	35.66	1.007e5	8.170e4	1.140	1.23	1.24	694.3	YES	NO	bd	bd	55.579
5	123678-HxCDF	34.79	1.278e5	1.030e5	1.091	1.24	1.24	842.6	YES	NO	dd	dd	60.547
6	123478-HxCDF	34.66	9.812e4	7.975e4	1.166	1.23	1.24	759.3	YES	NO	bd	bd	50.749
7	123789-HxCDF	36.70	7.638e4	6.082e4	1.137	1.26	1.24	521.7	YES	NO	bd	bd	53.476
8	1234789-HpCDF	40.76	4.849e4	4.712e4	0.953	1.03	1.05	163.8	YES	NO	bd	bd	56.262
9	1234678-HpCDF	38.55	6.577e4	6.372e4	1.003	1.03	1.05	283.1	YES	NO	bb	bb	51.784
10	OCDF	44.92	5.529e4	6.097e4	0.778	0.91	0.89	396.0	YES	NO	bb	bb	88.209

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.17	2.106e4	2.849e4	1.149	0.74	0.77	325.0	YES	NO	bd	bd	9.869
2	Total-tetradioxins	25.79	4.977e2	5.740e2	1.024	0.87	0.77	6.7	YES	NO	bb	bb	0.239

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.28	8.781e4	5.420e4	1.022	1.62	1.55	891.7	YES	NO	bb	bb	64.102

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.29	7.583e4	6.511e4	0.907	1.16	1.24	985.3	YES	NO	bd	bd	58.729
2	123678-HxCDD	35.90	8.905e4	6.856e4	1.001	1.30	1.24	1163.5	YES	NO	db	db	57.258
3	123478-HxCDD	35.79	7.105e4	5.565e4	0.996	1.28	1.24	1067.9	YES	NO	bd	bd	50.080

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.03	5.103e4	4.959e4	1.039	1.03	1.05	476.3	YES	NO	bb	bb	48.155

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.17	2.106e4	2.849e4	1.149	0.74	0.77	325.0	YES	NO	bd	bd	9.869
2	Total-tetradioxins	25.79	4.977e2	5.740e2	1.024	0.87	0.77	6.7	YES	NO	bb	bb	0.239
3	12378-PeCDD	31.28	8.781e4	5.420e4	1.022	1.62	1.55	891.7	YES	NO	bb	bb	64.102
4	123789-HxCDD	36.29	7.583e4	6.511e4	0.907	1.16	1.24	985.3	YES	NO	bd	bd	58.729
5	123678-HxCDD	35.90	8.905e4	6.856e4	1.001	1.30	1.24	1163.5	YES	NO	db	db	57.258
6	123478-HxCDD	35.79	7.105e4	5.565e4	0.996	1.28	1.24	1067.9	YES	NO	bd	bd	50.080
7	1234678-HpCDD	40.03	5.103e4	4.959e4	1.039	1.03	1.05	476.3	YES	NO	bb	bb	48.155
8	OCDD	44.68	7.340e4	8.881e4	0.920	0.83	0.89	418.2	YES	NO	bd	bd	104.056

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.55	1.570e4	2.013e4	0.702	0.78	0.77	350.6	YES	NO	bb	bb	9.629
2	23478-PeCDF	31.03	1.209e5	7.666e4	0.786	1.58	1.55	1017.3	YES	NO	bb	bb	60.756
3	12378-PeCDF	29.69	1.182e5	7.631e4	0.679	1.55	1.55	1012.9	YES	NO	bb	bb	60.848
4	234678-HxCDF	35.66	1.007e5	8.170e4	1.140	1.23	1.24	694.3	YES	NO	bd	bd	55.579
5	123678-HxCDF	34.79	1.278e5	1.030e5	1.091	1.24	1.24	842.6	YES	NO	dd	dd	60.547
6	123478-HxCDF	34.66	9.812e4	7.975e4	1.166	1.23	1.24	759.3	YES	NO	bd	bd	50.749
7	123789-HxCDF	36.70	7.638e4	6.082e4	1.137	1.26	1.24	521.7	YES	NO	bd	bd	53.476
8	1234789-HpCDF	40.76	4.849e4	4.712e4	0.953	1.03	1.05	163.8	YES	NO	bd	bd	56.262
9	1234678-HpCDF	38.55	6.577e4	6.372e4	1.003	1.03	1.05	283.1	YES	NO	bb	bb	51.784
10	OCDF	44.92	5.529e4	6.097e4	0.778	0.91	0.89	396.0	YES	NO	bb	bb	88.209
11	2378-TCDD	26.17	2.106e4	2.849e4	1.149	0.74	0.77	325.0	YES	NO	bd	bd	9.869
12	Total-tetradioxins	25.79	4.977e2	5.740e2	1.024	0.87	0.77	6.7	YES	NO	bb	bb	0.239
13	12378-PeCDD	31.28	8.781e4	5.420e4	1.022	1.62	1.55	891.7	YES	NO	bb	bb	64.102
14	123789-HxCDD	36.29	7.583e4	6.511e4	0.907	1.16	1.24	985.3	YES	NO	bd	bd	58.729
15	123678-HxCDD	35.90	8.905e4	6.856e4	1.001	1.30	1.24	1163.5	YES	NO	db	db	57.258
16	123478-HxCDD	35.79	7.105e4	5.565e4	0.996	1.28	1.24	1067.9	YES	NO	bd	bd	50.080
17	1234678-HpCDD	40.03	5.103e4	4.959e4	1.039	1.03	1.05	476.3	YES	NO	bb	bb	48.155
18	OCDD	44.68	7.340e4	8.881e4	0.920	0.83	0.89	418.2	YES	NO	bd	bd	104.056

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.57	2.166e3					0.4	NO		db		
2	FUNCTION1 PFK	22.51	1.583e4					1.3	NO		bd		
3	FUNCTION1 PFK	22.31	3.667e4					1.3	NO		bb		
4	FUNCTION1 PFK	21.92	7.350e4					2.8	NO		db		
5	FUNCTION1 PFK	21.81	2.436e4					1.5	NO		bd		
6	FUNCTION1 PFK	21.42	1.028e4					1.4	NO		db		
7	FUNCTION1 PFK	21.41	2.170e4					1.3	NO		bd		
8	FUNCTION1 PFK	21.18	5.078e4					2.4	NO		bb		
9	FUNCTION1 PFK	27.24	2.074e4					1.0	NO		db		
10	FUNCTION1 PFK	27.17	1.076e4					1.0	NO		bd		
11	FUNCTION1 PFK	27.12	2.778e3					0.5	NO		bb		
12	FUNCTION1 PFK	26.41	5.986e3					0.8	NO		bb		
13	FUNCTION1 PFK	25.92	2.494e4					1.1	NO		bb		
14	FUNCTION1 PFK	25.63	1.203e4					1.0	NO		bb		
15	FUNCTION1 PFK	25.53	1.652e4					0.8	NO		db		
16	FUNCTION1 PFK	25.48	2.551e4					1.4	NO		bd		
17	FUNCTION1 PFK	25.28	6.804e3					0.7	NO		bb		
18	FUNCTION1 PFK	24.87	1.304e4					0.9	NO		bb		
19	FUNCTION1 PFK	23.81	6.489e4					2.3	NO		bb		
20	FUNCTION1 PFK	23.37	3.567e4					1.4	NO		db		
21	FUNCTION1 PFK	23.32	1.611e4					1.4	NO		bd		
22	FUNCTION1 PFK	22.95	9.679e3					0.9	NO		bb		
23	FUNCTION1 PFK	22.85	1.152e4					1.1	NO		bb		
24	FUNCTION1 PFK	22.78	8.066e3					1.0	NO		bb		
25	FUNCTION1 PFK	27.36	2.004e3					0.4	NO		bb		

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.23	1.509e4					2.3	NO		dd		0.000
2	FUNCTION2 PFK	29.18	6.930e3					1.6	NO		dd		0.000
3	FUNCTION2 PFK	29.13	4.055e3					0.9	NO		bd		0.000
4	FUNCTION2 PFK	28.83	4.540e3					1.1	NO		db		0.000
5	FUNCTION2 PFK	28.79	1.061e4					1.7	NO		bd		0.000
6	FUNCTION2 PFK	28.50	3.552e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	28.39	1.344e4					1.6	NO		bb		0.000
8	FUNCTION2 PFK	28.20	1.465e4					2.0	NO		db		0.000
9	FUNCTION2 PFK	28.15	1.018e4					1.9	NO		dd		0.000
10	FUNCTION2 PFK	28.11	1.218e4					2.2	NO		dd		0.000
11	FUNCTION2 PFK	28.05	1.991e4					2.6	NO		dd		0.000
12	FUNCTION2 PFK	28.01	1.170e4					1.9	NO		dd		0.000
13	FUNCTION2 PFK	27.96	1.090e4					1.9	NO		dd		0.000
14	FUNCTION2 PFK	27.90	1.356e4					2.2	NO		bd		0.000
15	FUNCTION2 PFK	30.99	6.095e3					1.2	NO		bb		0.000
16	FUNCTION2 PFK	30.65	2.369e3					0.6	NO		bb		0.000
17	FUNCTION2 PFK	30.58	9.303e3					2.0	NO		db		0.000
18	FUNCTION2 PFK	30.50	8.841e3					1.4	NO		bd		0.000
19	FUNCTION2 PFK	30.42	1.811e4					2.3	NO		db		0.000
20	FUNCTION2 PFK	30.36	8.492e3					1.5	NO		dd		0.000
21	FUNCTION2 PFK	30.33	4.068e3					0.9	NO		bd		0.000
22	FUNCTION2 PFK	30.27	1.958e3					0.7	NO		bb		0.000
23	FUNCTION2 PFK	30.15	4.872e3					1.1	NO		db		0.000
24	FUNCTION2 PFK	30.09	7.590e3					1.4	NO		bd		0.000
25	FUNCTION2 PFK	29.76	4.144e3					0.9	NO		db		0.000
26	FUNCTION2 PFK	29.72	5.964e3					1.5	NO		dd		0.000
27	FUNCTION2 PFK	29.68	5.010e3					1.3	NO		bd		0.000
28	FUNCTION2 PFK	29.37	6.353e3					1.5	NO		bb		0.000
29	FUNCTION2 PFK	29.32	5.080e3					1.4	NO		db		0.000
30	FUNCTION2 PFK	29.29	1.013e4					1.7	NO		dd		0.000
31	FUNCTION2 PFK	32.31	2.702e4					1.5	NO		bb		0.000
32	FUNCTION2 PFK	32.24	3.621e3					1.0	NO		bb		0.000
33	FUNCTION2 PFK	32.13	6.447e3					1.3	NO		db		0.000
34	FUNCTION2 PFK	32.09	3.417e3					0.9	NO		bd		0.000
35	FUNCTION2 PFK	32.03	1.215e4					2.0	NO		db		0.000
36	FUNCTION2 PFK	31.94	2.145e4					1.9	NO		bd		0.000
37	FUNCTION2 PFK	31.88	4.750e3					1.4	NO		bb		0.000

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	31.80	5.515e3					0.5	NO		bb		0.000
39	FUNCTION2 PFK	31.65	1.516e3					0.5	NO		bb		0.000
40	FUNCTION2 PFK	31.53	1.144e4					2.1	NO		db		0.000
41	FUNCTION2 PFK	31.49	9.762e3					1.9	NO		dd		0.000
42	FUNCTION2 PFK	31.44	6.144e3					1.2	NO		bd		0.000
43	FUNCTION2 PFK	31.38	7.977e3					1.5	NO		bb		0.000
44	FUNCTION2 PFK	31.28	2.977e3					0.8	NO		bb		0.000
45	FUNCTION2 PFK	31.06	3.258e3					0.9	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.10	1.747e6					15.8	YES		bb		0.000
2	FUNCTION3 PFK	33.96	3.135e7					35.2	YES		bb		0.000

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.11	6.743e3					1.2	NO		bb		
2	FUNCTION4 PFK	40.05	8.866e3					1.0	NO		bb		
3	FUNCTION4 PFK	39.40	4.378e3					1.0	NO		bb		
4	FUNCTION4 PFK	39.10	7.840e3					1.4	NO		bb		
5	FUNCTION4 PFK	38.65	2.085e3					0.6	NO		db		
6	FUNCTION4 PFK	38.58	1.908e4					1.7	NO		bd		
7	FUNCTION4 PFK	38.42	2.901e4					2.7	NO		bb		
8	FUNCTION4 PFK	38.37	7.515e3					1.3	NO		bb		
9	FUNCTION4 PFK	38.26	3.244e3					0.8	NO		bb		
10	FUNCTION4 PFK	38.17	7.754e3					0.8	NO		bb		
11	FUNCTION4 PFK	38.09	9.760e2					0.4	NO		bb		
12	FUNCTION4 PFK	38.00	5.082e3					1.0	NO		bb		
13	FUNCTION4 PFK	37.70	6.602e3					1.3	NO		bb		
14	FUNCTION4 PFK	42.95	4.540e3					0.9	NO		bb		
15	FUNCTION4 PFK	42.86	3.672e3					0.8	NO		bb		
16	FUNCTION4 PFK	42.42	3.036e3					0.7	NO		bb		
17	FUNCTION4 PFK	42.26	9.862e2					0.4	NO		bb		
18	FUNCTION4 PFK	42.21	3.089e3					0.8	NO		bb		
19	FUNCTION4 PFK	42.08	4.526e3					0.7	NO		bb		
20	FUNCTION4 PFK	41.97	4.791e3					1.1	NO		bb		
21	FUNCTION4 PFK	41.82	8.208e3					1.4	NO		bb		
22	FUNCTION4 PFK	41.76	1.651e4					2.4	NO		db		
23	FUNCTION4 PFK	41.71	5.344e3					1.2	NO		bd		
24	FUNCTION4 PFK	41.51	7.383e3					1.3	NO		bb		
25	FUNCTION4 PFK	41.08	1.503e3					0.7	NO		bb		
26	FUNCTION4 PFK	41.03	9.987e3					1.3	NO		bb		
27	FUNCTION4 PFK	40.54	5.253e3					1.2	NO		bb		
28	FUNCTION4 PFK	40.37	1.427e3					0.5	NO		bb		
29	FUNCTION4 PFK	40.30	8.986e3					1.5	NO		bb		

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.19	3.337e3					1.2	NO		bb		
2	FUNCTION5 PFK	45.14	2.023e3					0.8	NO		db		
3	FUNCTION5 PFK	45.11	1.312e3					0.8	NO		bd		
4	FUNCTION5 PFK	44.97	7.873e3					1.1	NO		bb		
5	FUNCTION5 PFK	44.65	3.738e5					7.6	YES		db		
6	FUNCTION5 PFK	44.43	1.454e5					20.7	YES		dd		
7	FUNCTION5 PFK	44.11	2.106e6					39.7	YES		dd		
8	FUNCTION5 PFK	43.90	4.264e5					51.8	YES		dd		
9	FUNCTION5 PFK	43.85	2.579e5					54.1	YES		dd		
10	FUNCTION5 PFK	43.82	6.190e5					56.6	YES		dd		
11	FUNCTION5 PFK	43.68	8.920e5					63.4	YES		dd		
12	FUNCTION5 PFK	43.32	3.540e6					84.7	YES		dd		
13	FUNCTION5 PFK	43.20	1.283e6					91.6	YES		dd		
14	FUNCTION5 PFK	43.17	4.455e5					92.4	YES		dd		
15	FUNCTION5 PFK	43.10	1.602e6					96.8	YES		bd		
16	FUNCTION5 PFK	45.88	7.379e3					1.4	NO		bb		
17	FUNCTION5 PFK	45.67	6.835e3					1.7	NO		bb		
18	FUNCTION5 PFK	45.42	5.438e3					1.3	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.41	1.593e2					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	26.74	8.251e1					2.7	NO		db		0.000
3	FUNCTION1 HXCD...	26.65	1.262e2					4.0	YES		dd		0.000
4	FUNCTION1 HXCD...	26.59	1.059e2					3.1	YES		dd		0.000
5	FUNCTION1 HXCD...	26.51	1.210e2					2.4	NO		bd		0.000
6	FUNCTION1 HXCD...	25.65	1.373e2					2.1	NO		bb		0.000
7	FUNCTION1 HXCD...	24.35	1.068e2					2.7	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.43	1.120e2					1.7	NO		bd		0.000
2	FUNCTION2 HPCD...	30.13	8.765e1					2.1	NO		bb		0.000
3	FUNCTION2 HPCD...	29.10	7.123e1					1.3	NO		db		0.000
4	FUNCTION2 HPCD...	29.00	9.658e1					2.0	NO		bd		0.000
5	FUNCTION2 HPCD...	31.31	1.169e2					2.4	NO		db		0.000
6	FUNCTION2 HPCD...	31.23	1.170e2					1.9	NO		bd		0.000
7	FUNCTION2 HPCD...	31.13	7.156e1					2.2	NO		bb		0.000
8	FUNCTION2 HPCD...	31.07	7.093e1					2.4	NO		bb		0.000
9	FUNCTION2 HPCD...	30.82	1.379e2					1.5	NO		bb		0.000
10	FUNCTION2 HPCD...	30.60	8.189e1					1.7	NO		db		0.000
11	FUNCTION2 HPCD...	30.54	7.770e1					1.6	NO		dd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.74	9.981e1					3.0	NO		db		0.000
2	FUNCTION3 OCDPE	35.67	1.442e2					3.4	YES		bd		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.29	7.471e1					3.3	YES		bb		0.000
2	FUNCTION4 NCDPE	37.96	9.056e1					6.7	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.09	8.711e1					4.7	YES		bb		0.000

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Printed: Wednesday, May 10, 2023 16:28:06 Pacific Daylight Time

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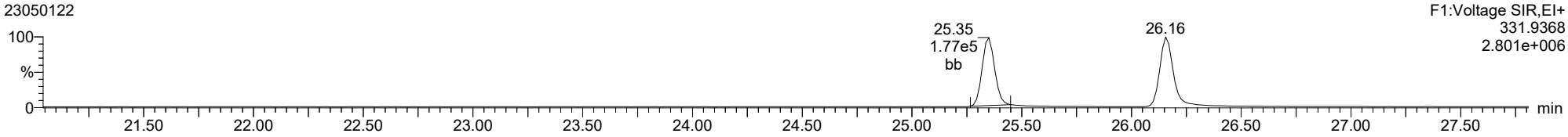

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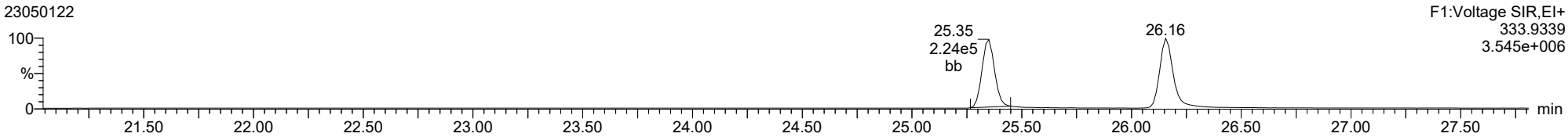

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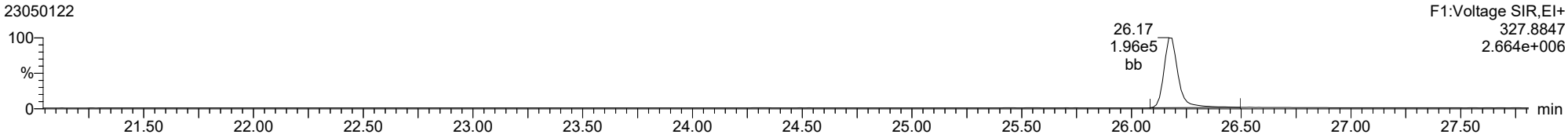

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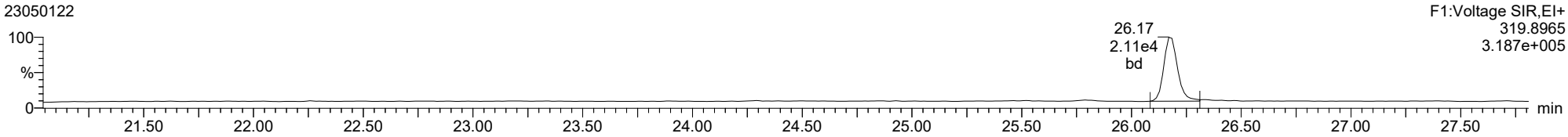

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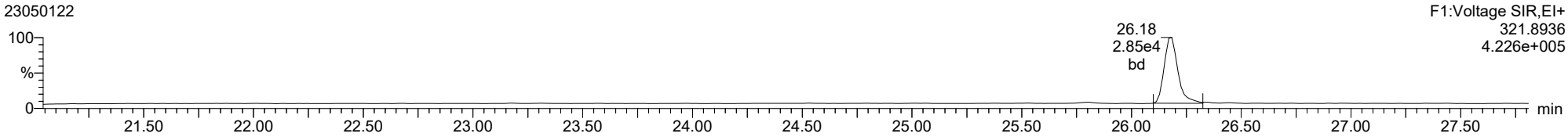

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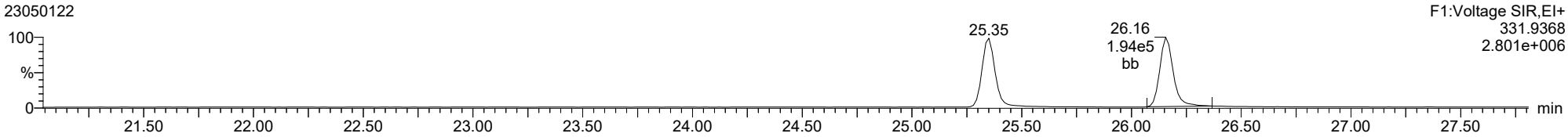

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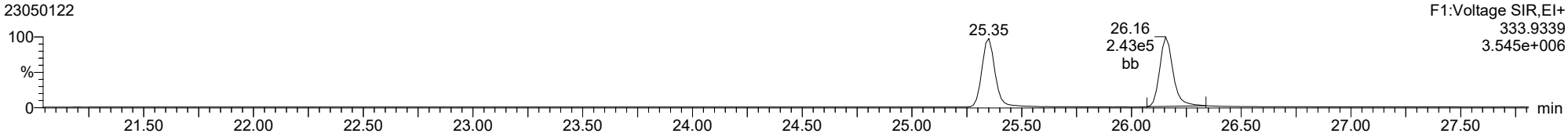

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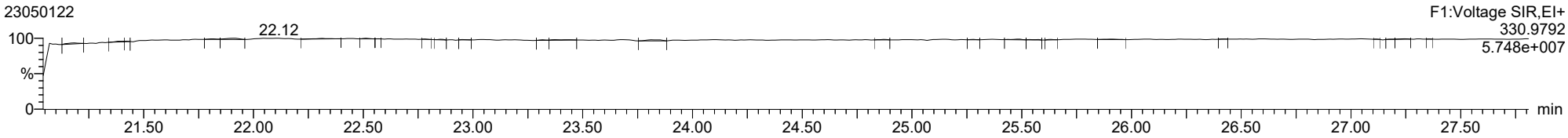

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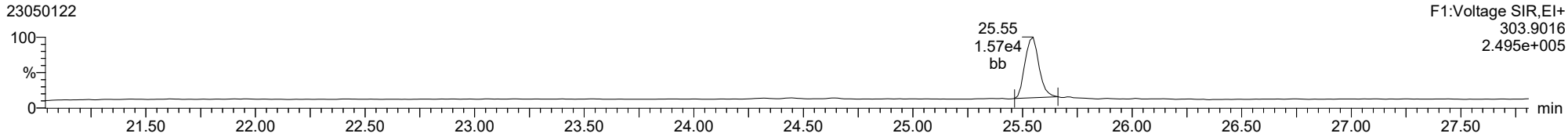
2378-TCDF



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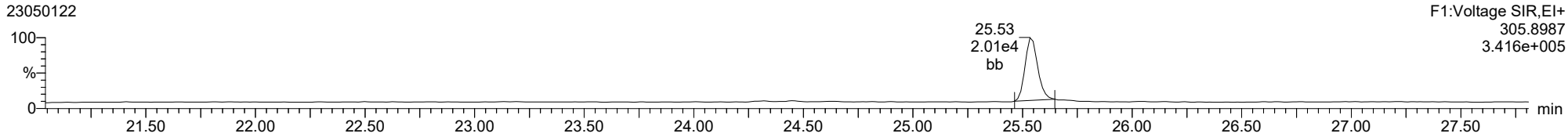

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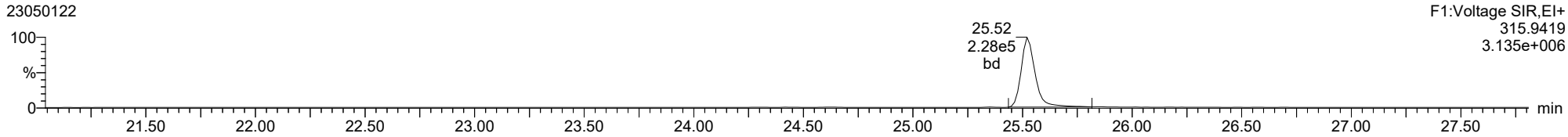

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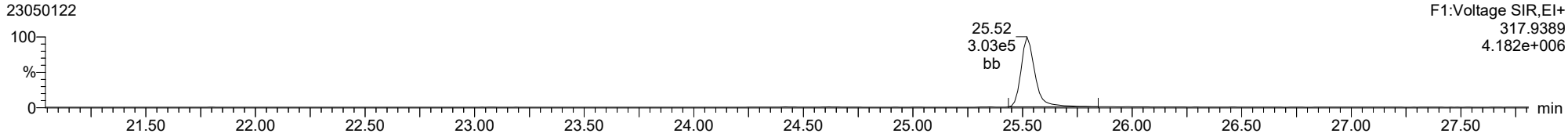

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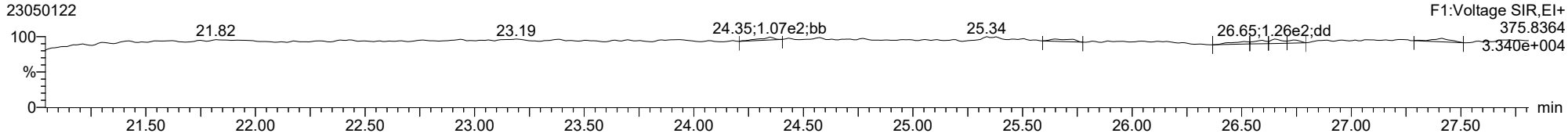

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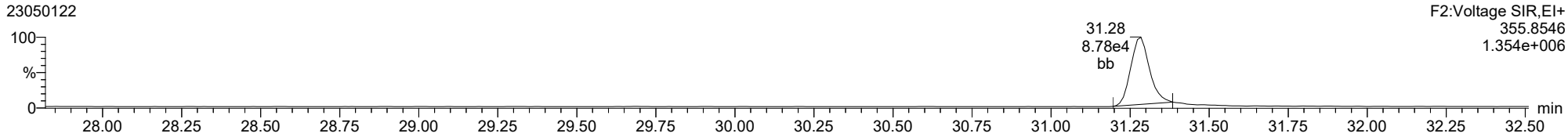
12378-PeCDD



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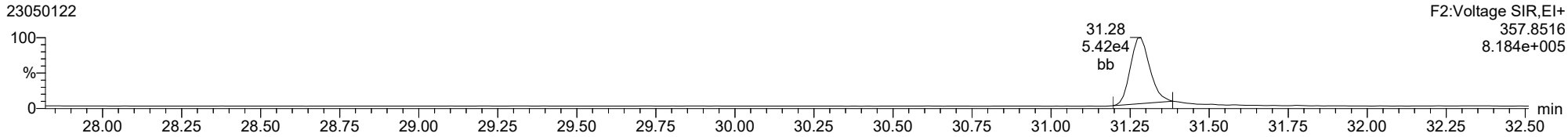

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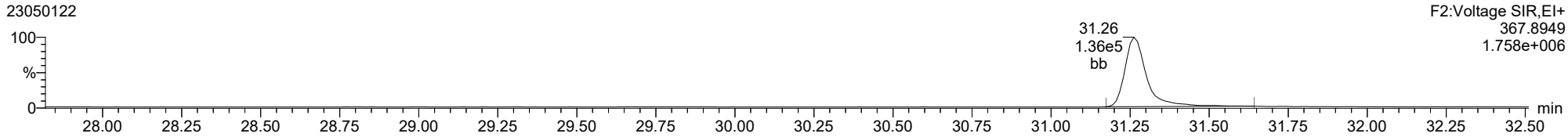

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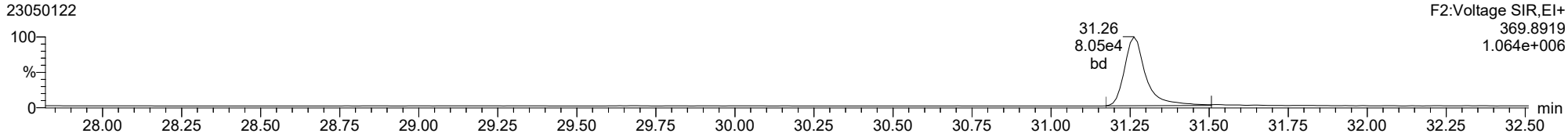

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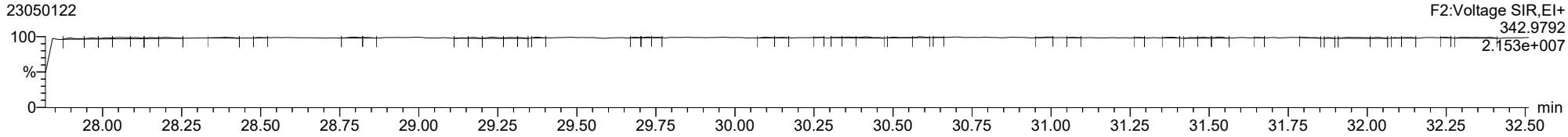

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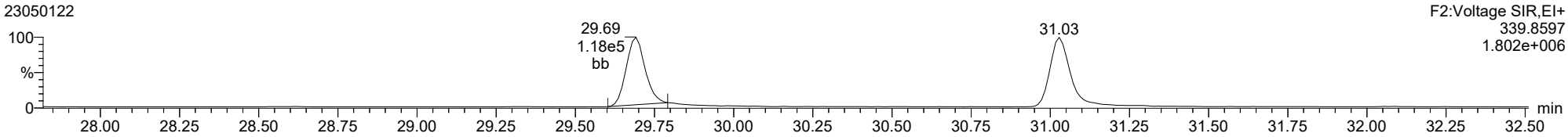

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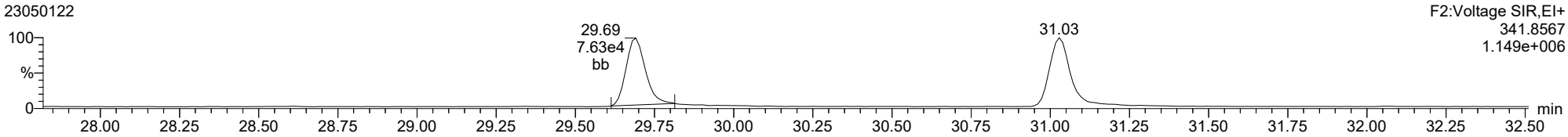

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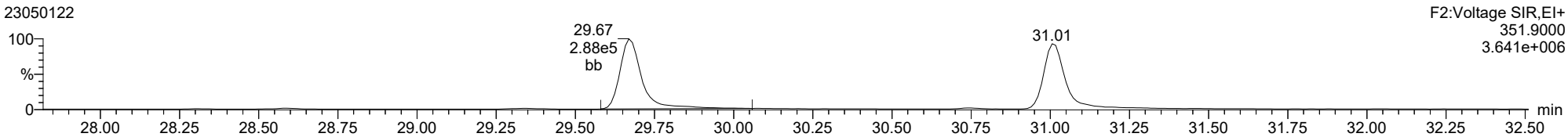

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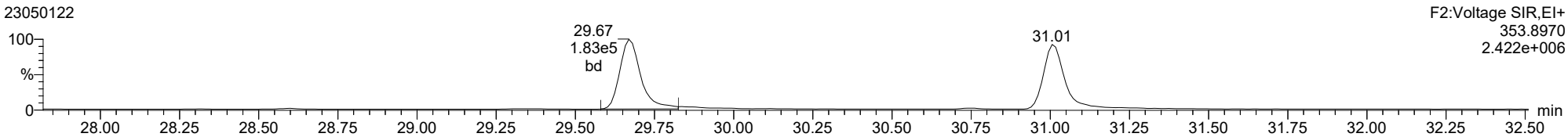

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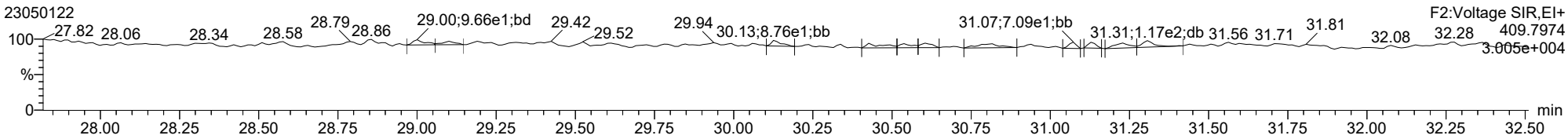

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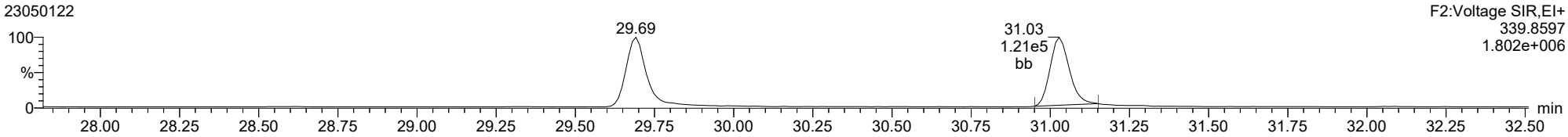

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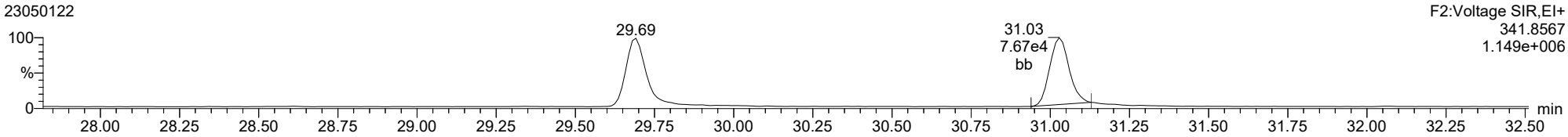

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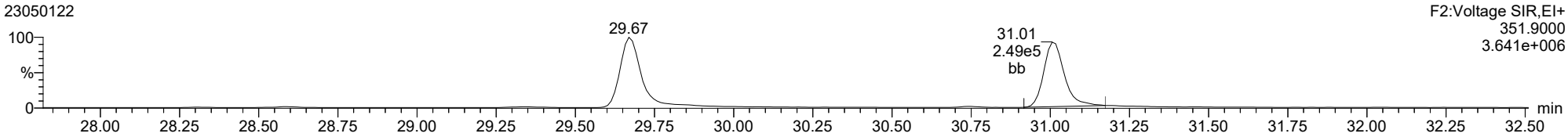

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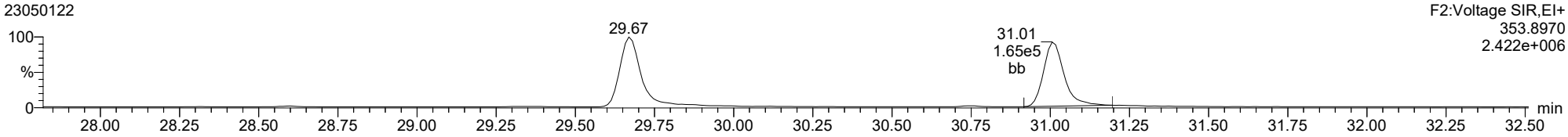

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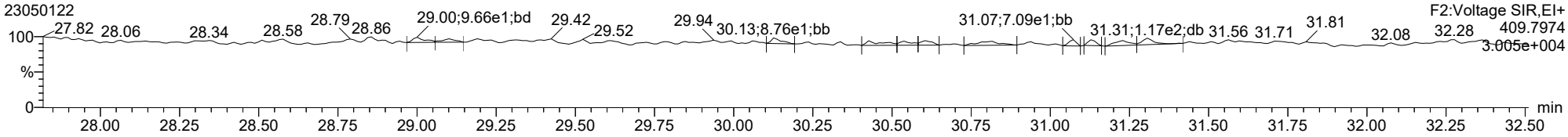

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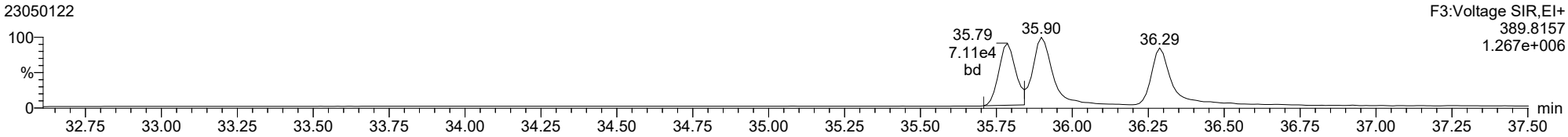

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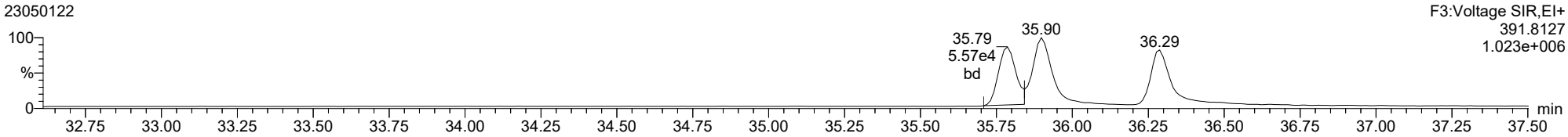

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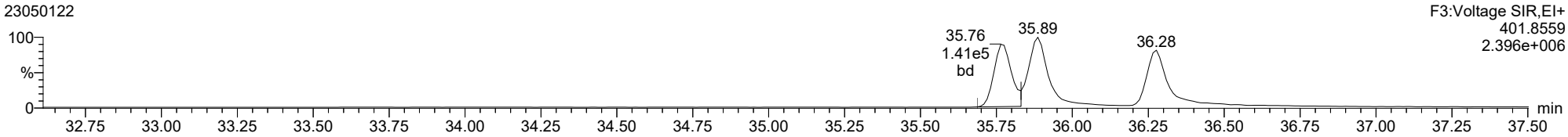

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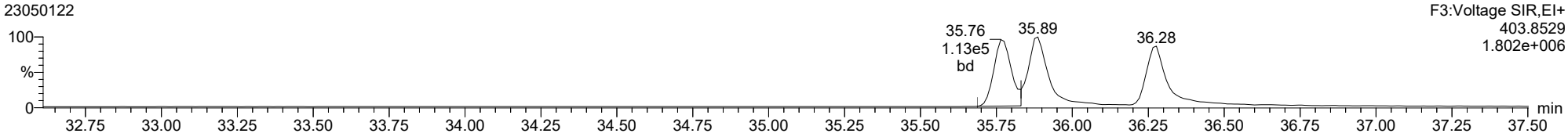

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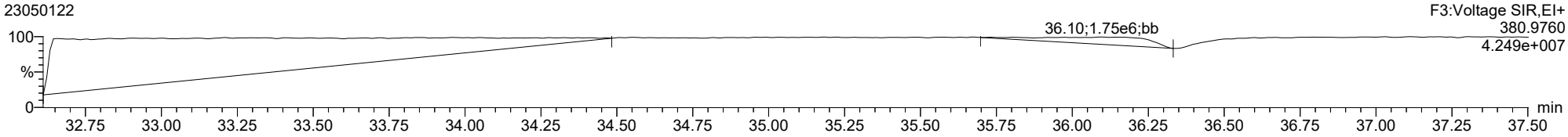

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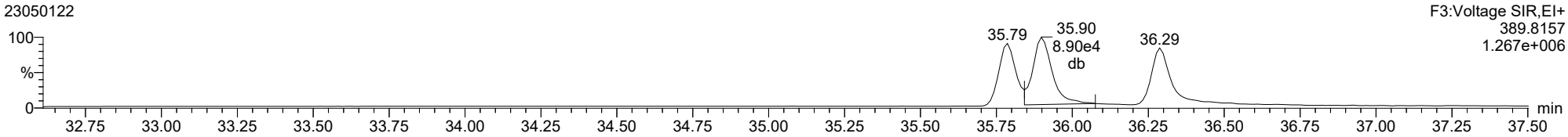

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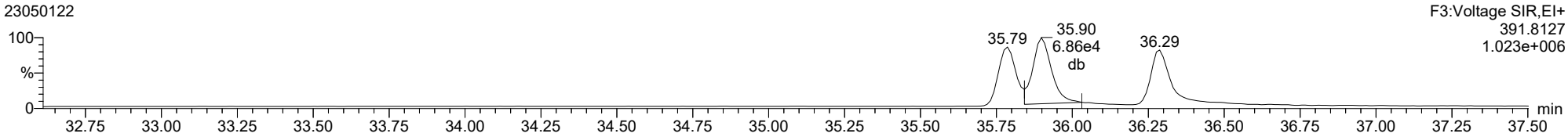

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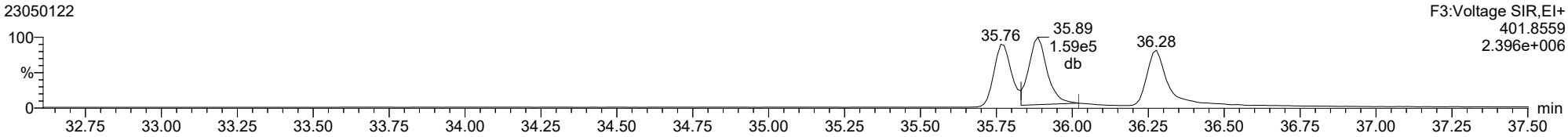

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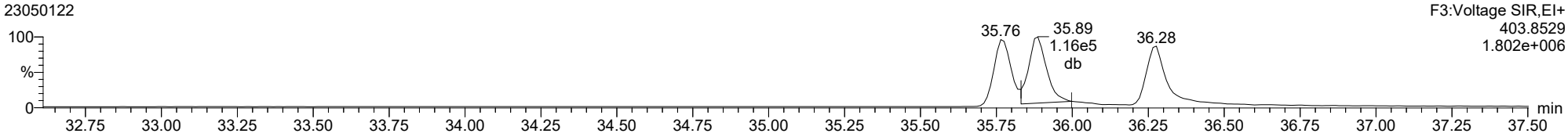

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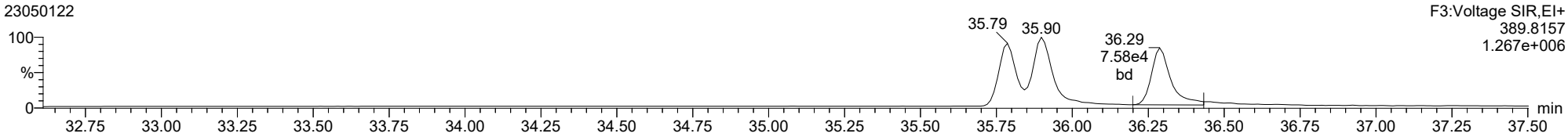

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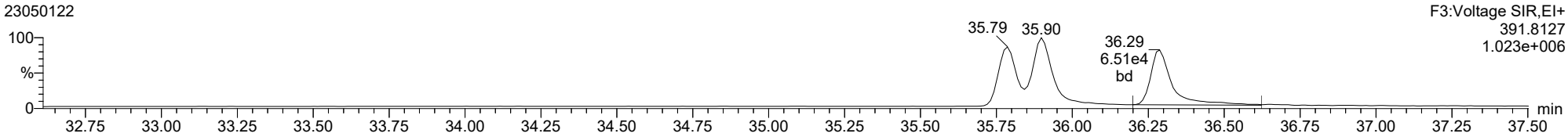

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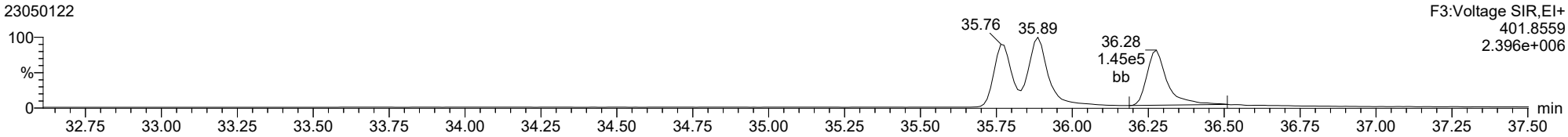

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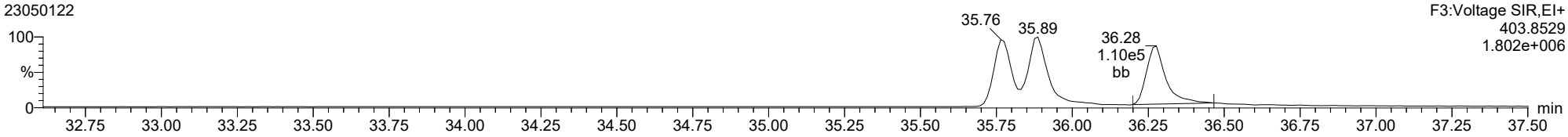

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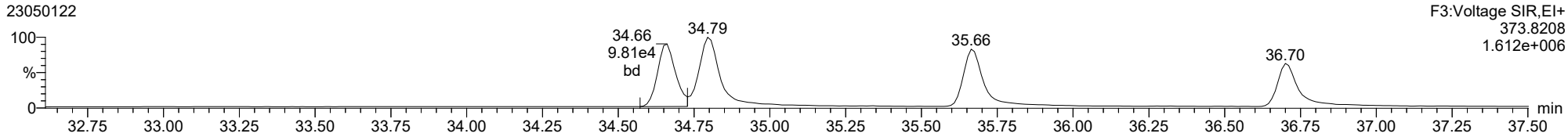

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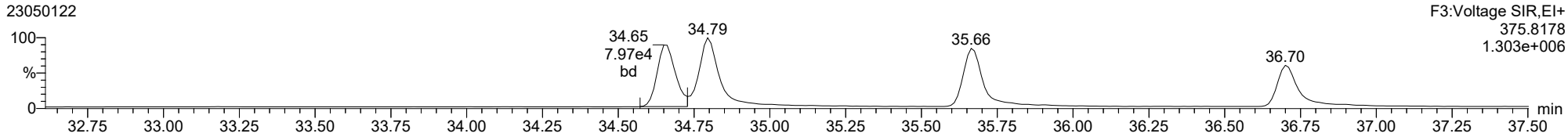

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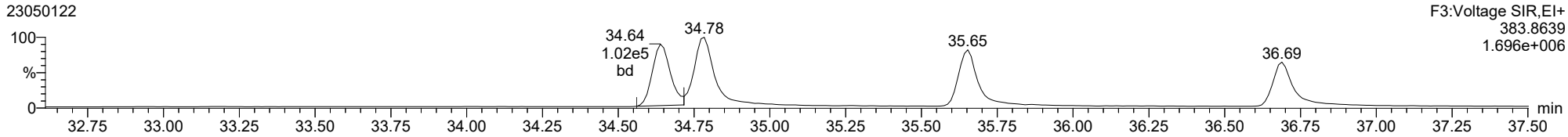

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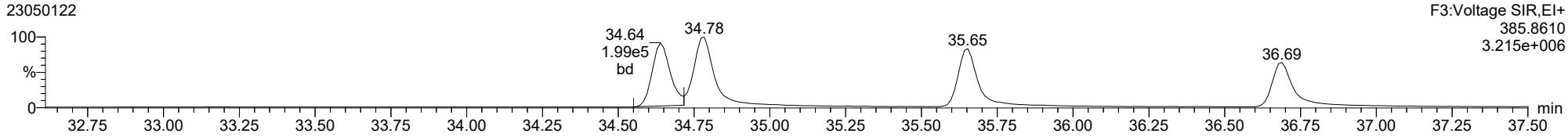

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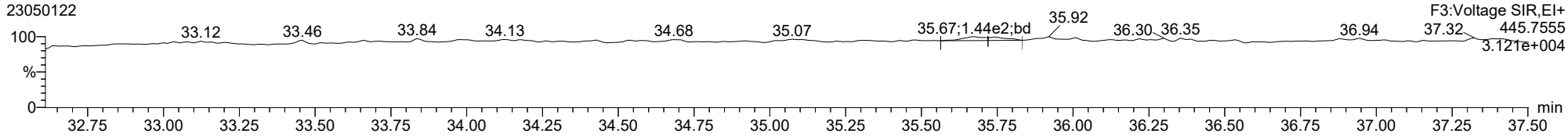

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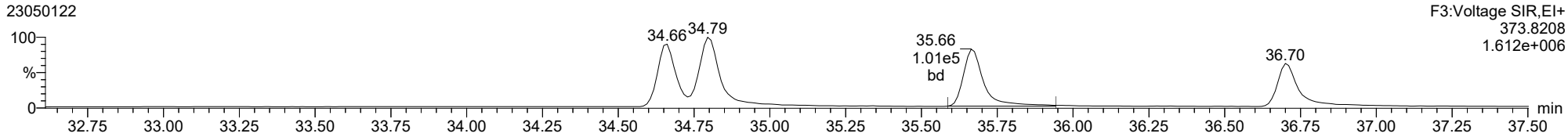

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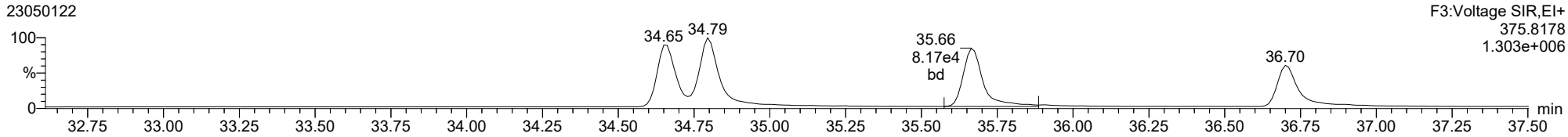

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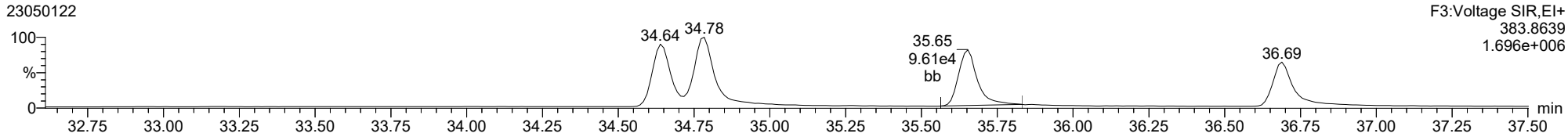

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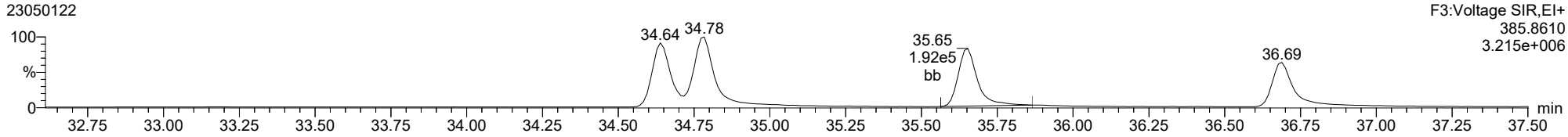

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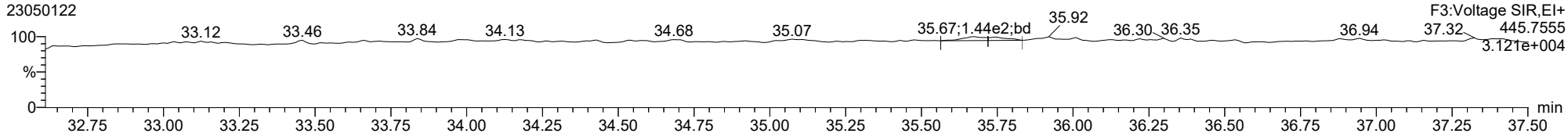

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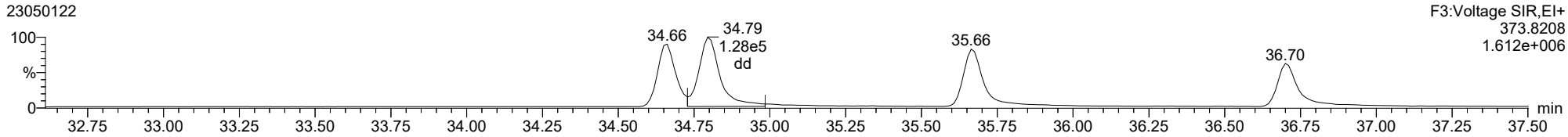

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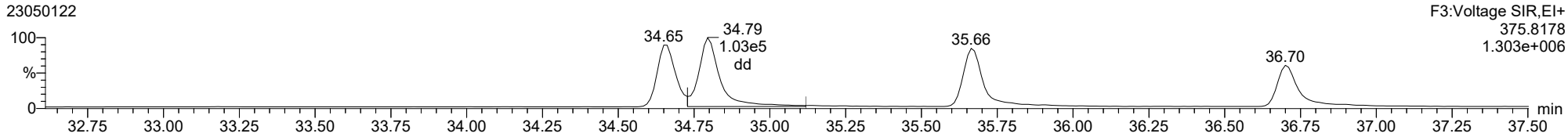

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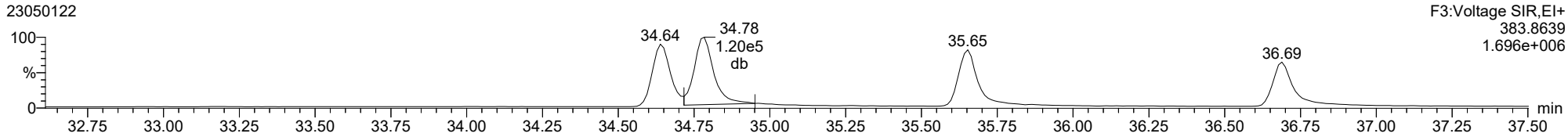

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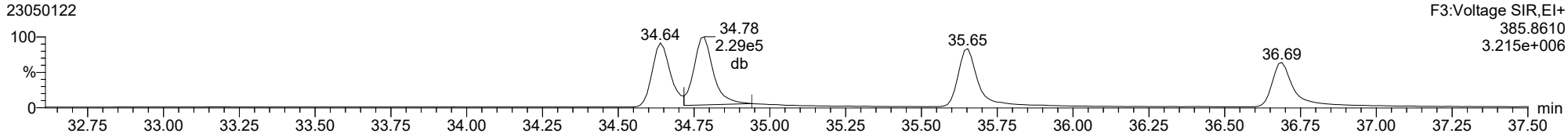

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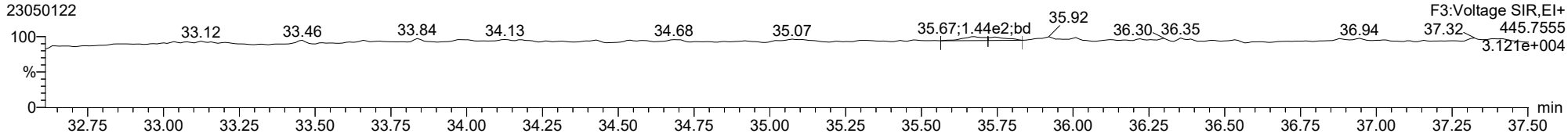

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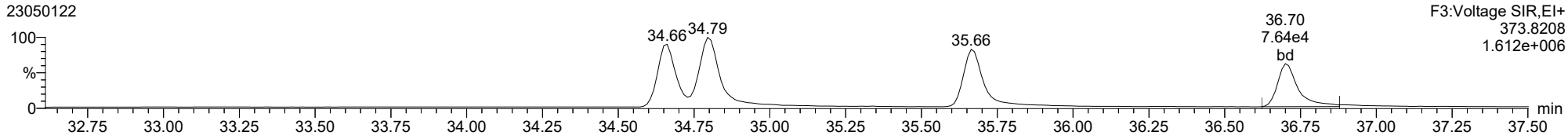

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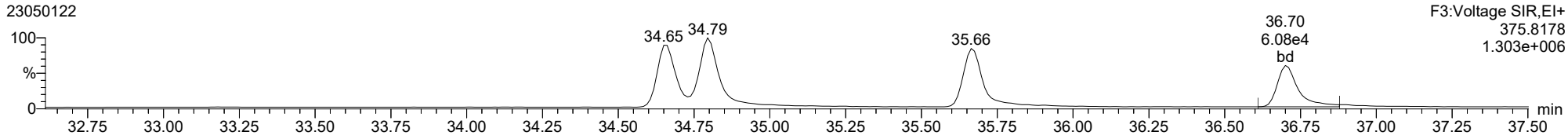

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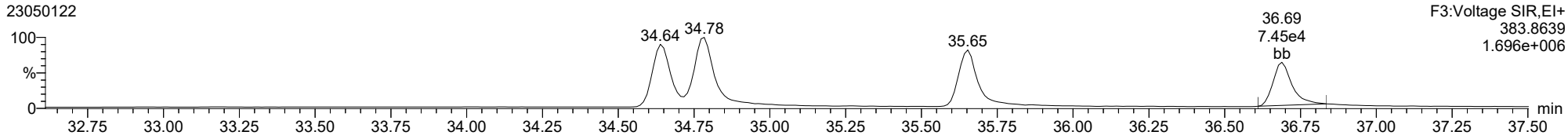

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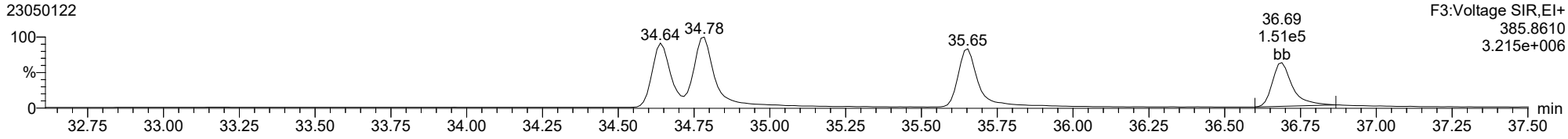

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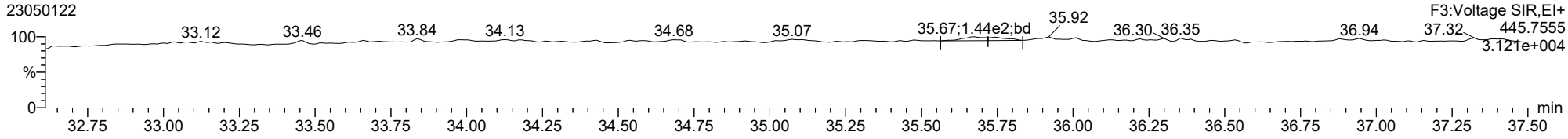

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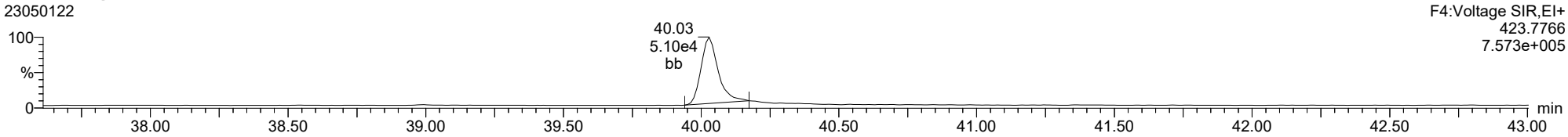

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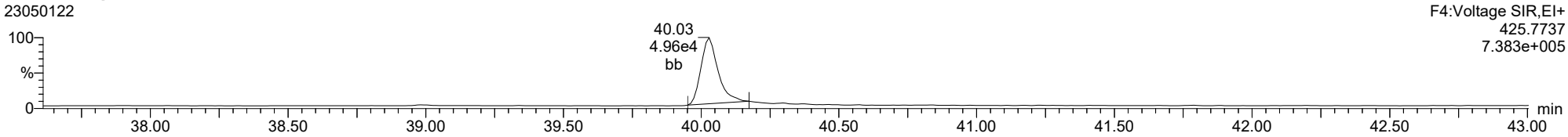

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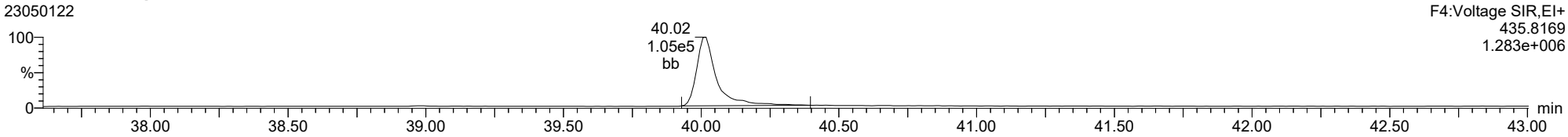

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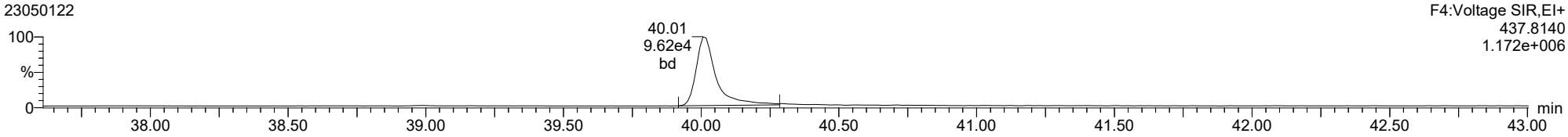

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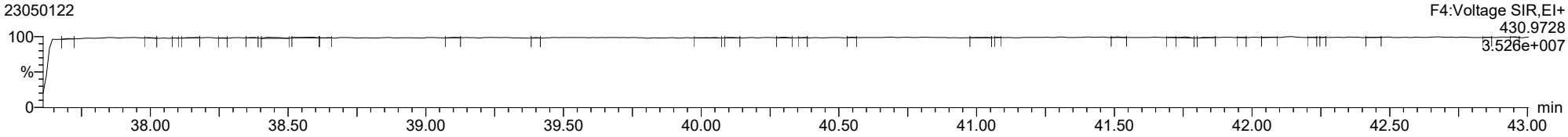

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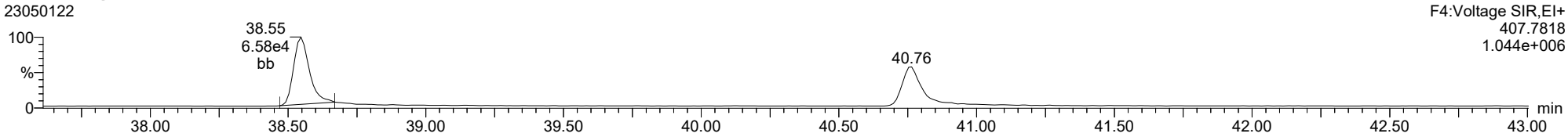

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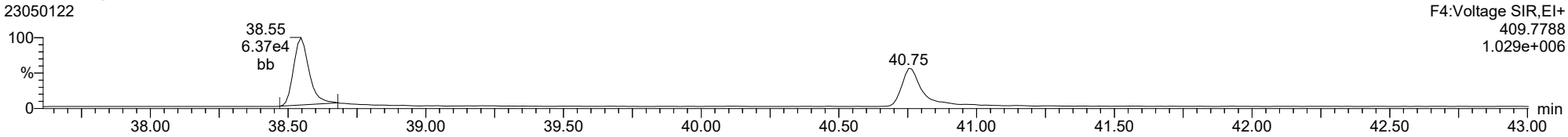

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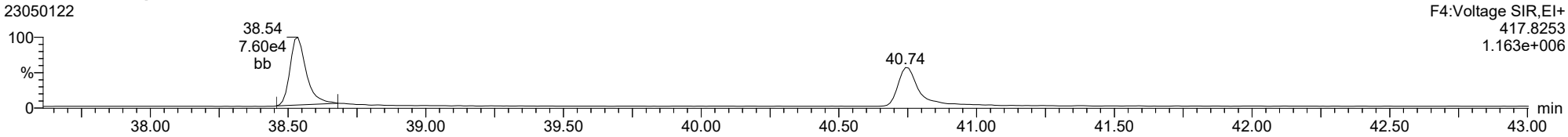

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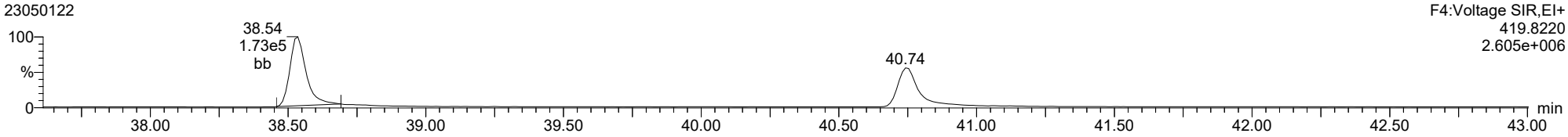

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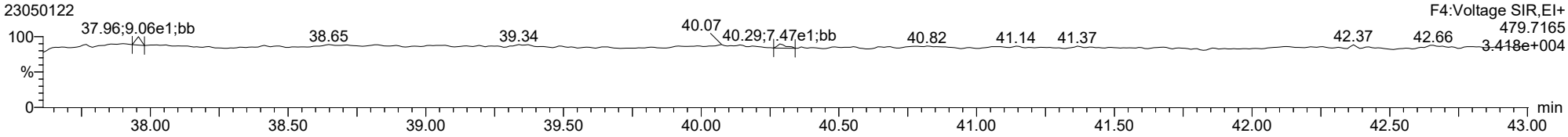

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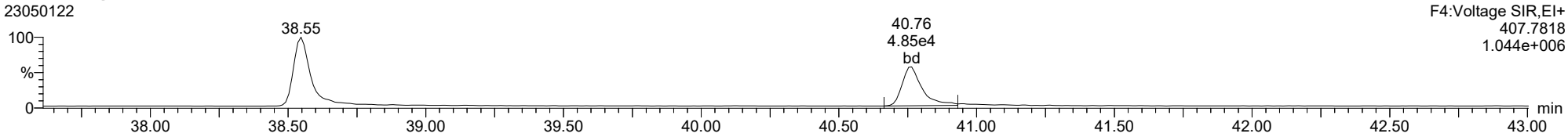

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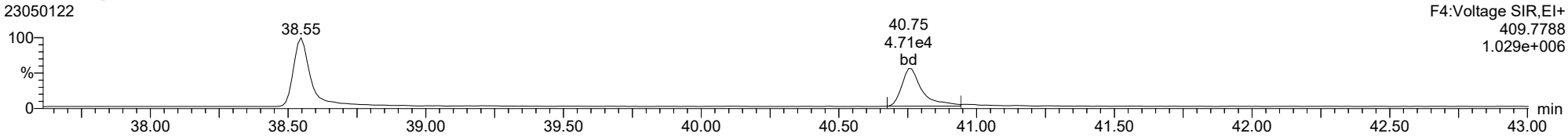

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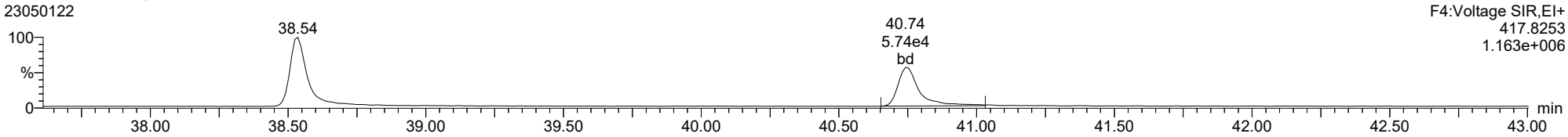

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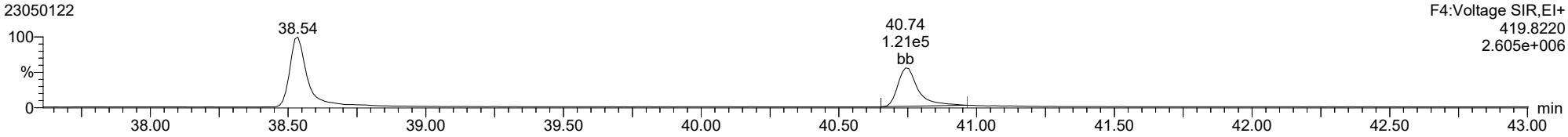

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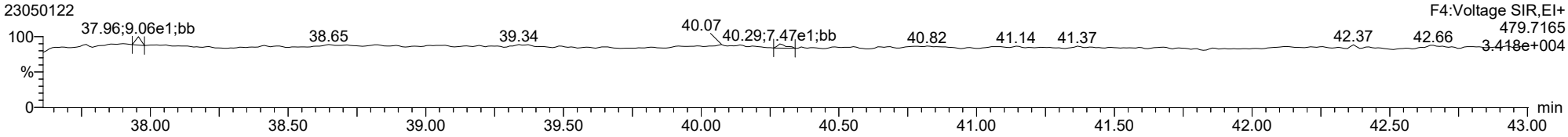

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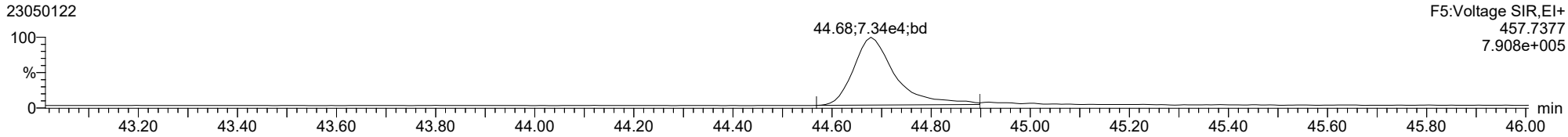

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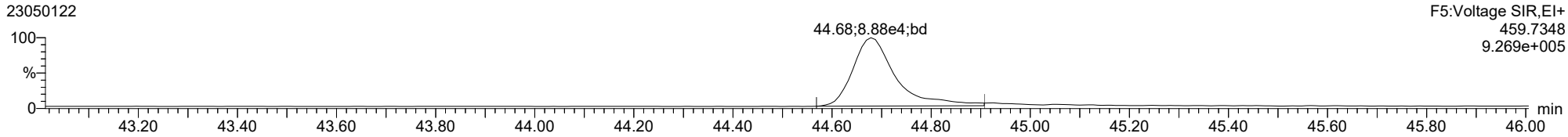

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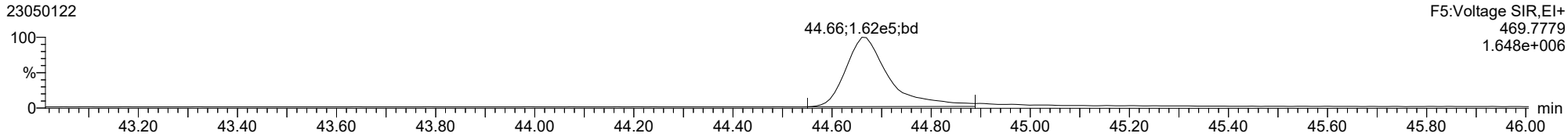

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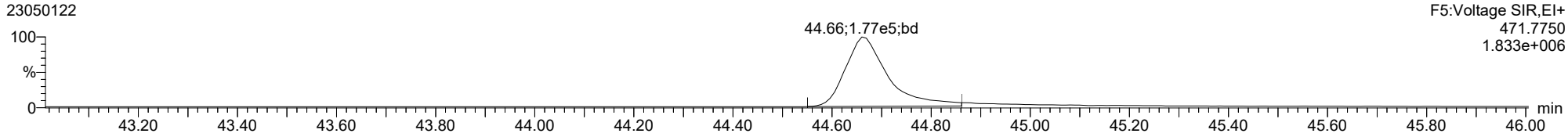
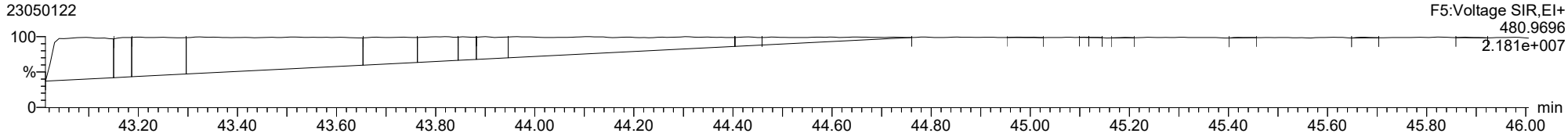


FUNCTION5 PFK



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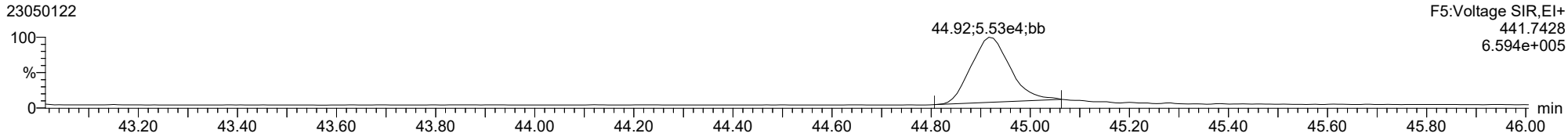

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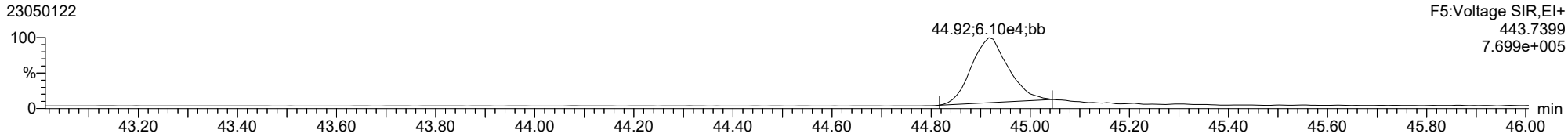
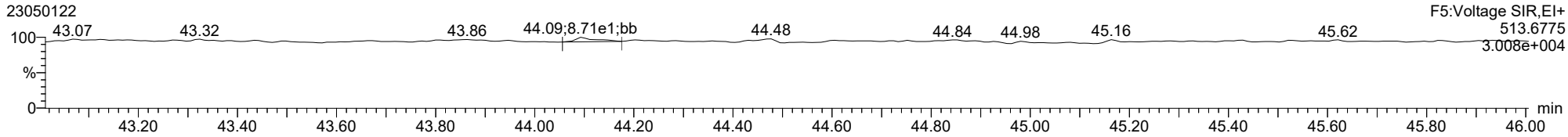


FUNCTION5 DCDPE



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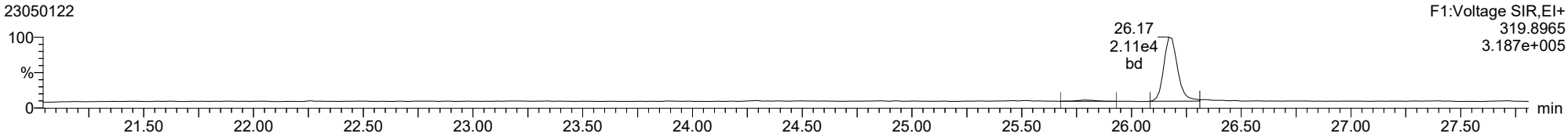
Total-tetradioxins



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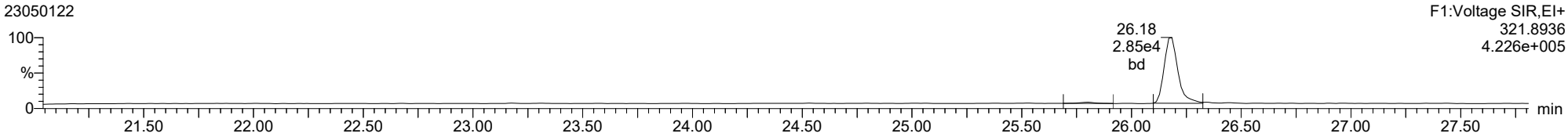

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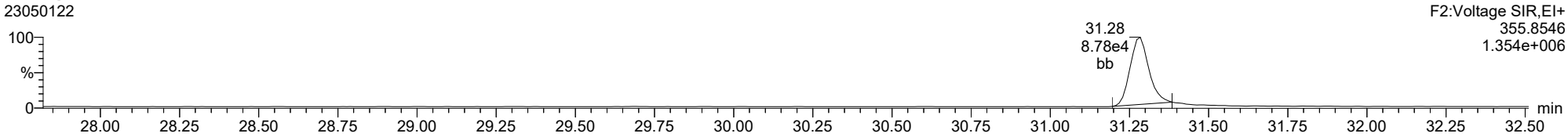
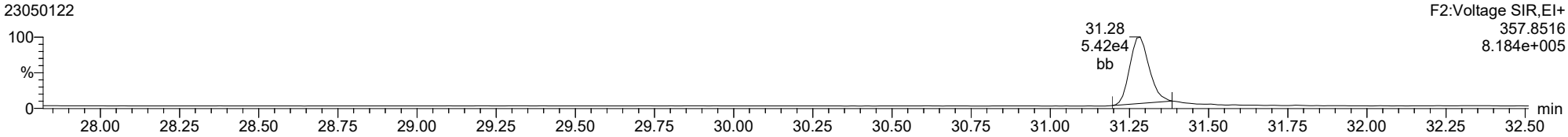


Total-pentadioxins



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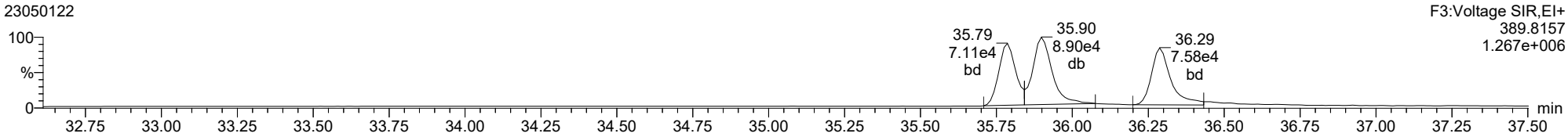
Total-hexadioxins



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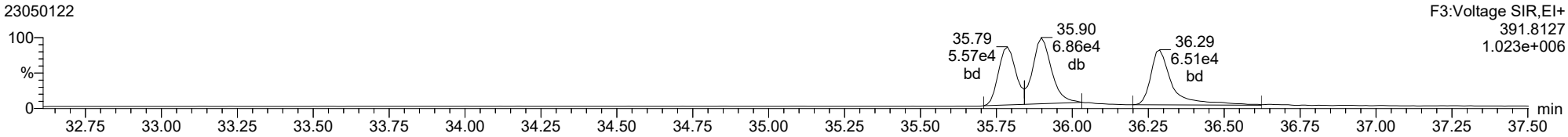
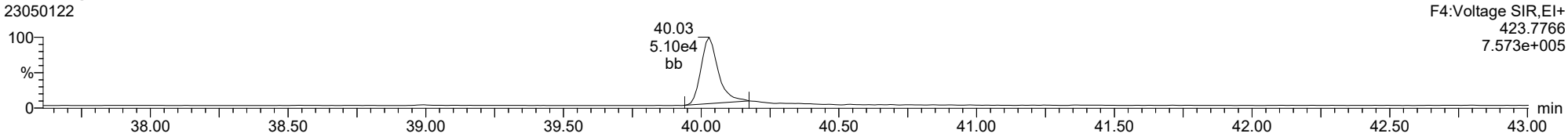
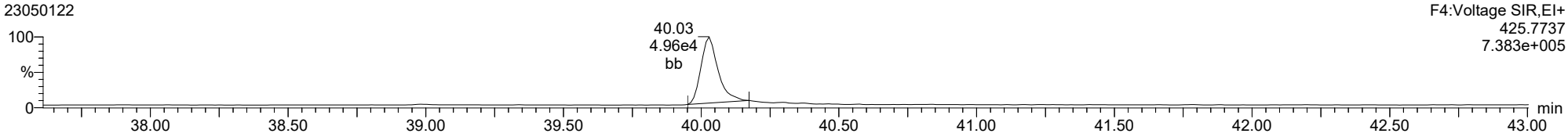


Total-heptadioxins

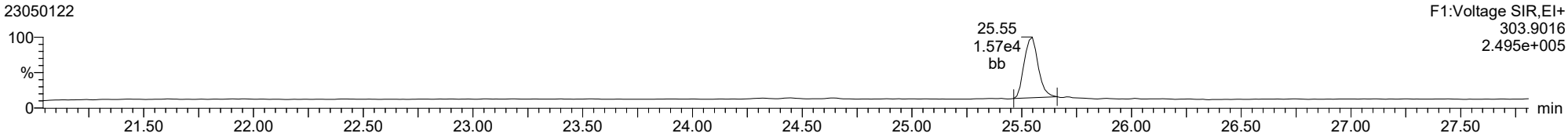


Total-heptadioxins

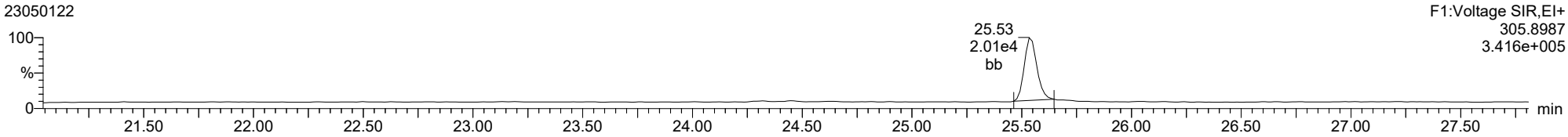


ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



Total-tetrafurans



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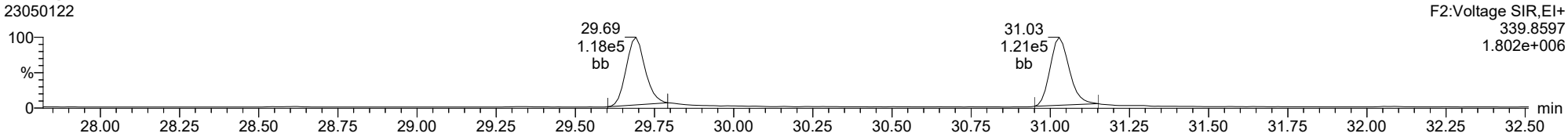
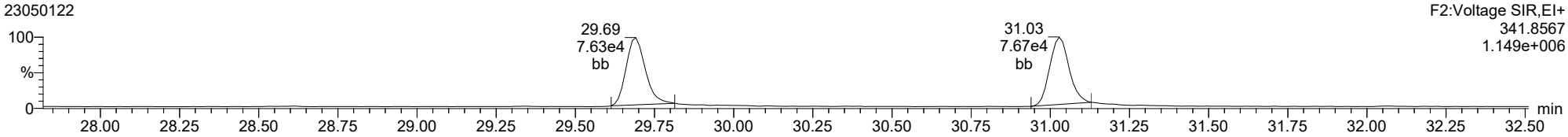
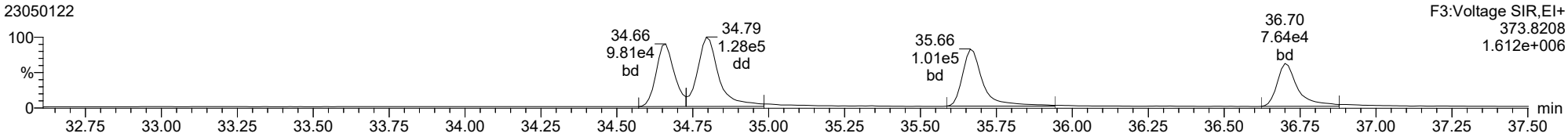


Total-pentafurans



ID: DLCS25, Name: 23050122, Date: 02-May-2023, Time: 03:42:31, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



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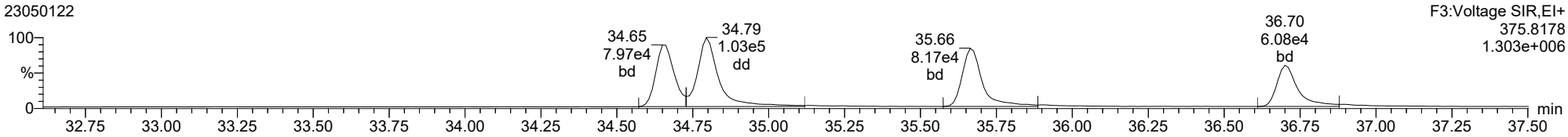
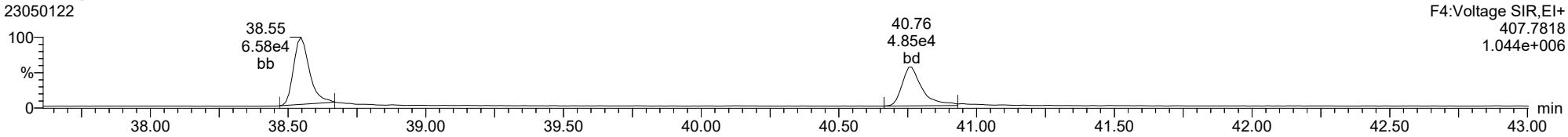
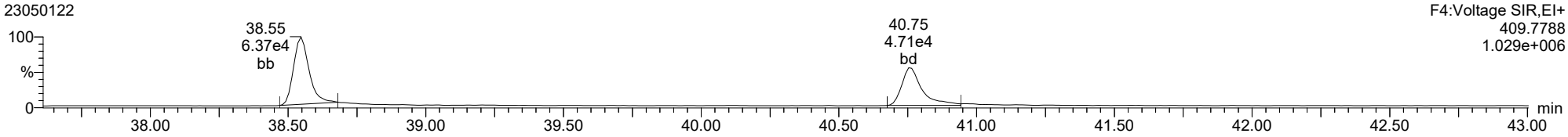


Total-heptafurans



Total-heptafurans



Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0657-SRM1
Batch: BLD0657
Initial/Final: 10.03 g / 20 uL
Preparation: EPA 1613
Analyzed: 05/10/2023 7:55
Standard ID: L001275
Expires: 08/05/2023
Standard Lot#: PSRM0174
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ng/kg wet)	FOUND (ng/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,3,7,8-TCDF	1.1100	1.02	0.203	0.997		91.6	50 - 150
2,3,7,8-TCDD	1.0500	0.924	0.150	0.997	J	88.0	50 - 150
1,2,3,7,8-PeCDF	1.2300	1.02	0.239	0.997		82.9	50 - 150
2,3,4,7,8-PeCDF	1.0700	0.830	0.219	0.997	J	77.6	50 - 150
1,2,3,7,8-PeCDD	1.0800	1.23	0.197	0.997		114	50 - 150
1,2,3,4,7,8-HxCDF	3.0200	2.54	0.279	0.997		84.2	50 - 150
1,2,3,6,7,8-HxCDF	1.0900	1.00	0.199	0.997		91.8	50 - 150
2,3,4,6,7,8-HxCDF	1.8300	1.90	0.169	0.997		104	50 - 150
1,2,3,7,8,9-HxCDF	0.51100	0.438	0.189	0.997	EMPC, J	85.7	50 - 150
1,2,3,4,7,8-HxCDD	1.5900	1.36	0.177	0.997	EMPC	85.4	50 - 150
1,2,3,6,7,8-HxCDD	3.8800	3.28	0.179	0.997		84.5	50 - 150
1,2,3,7,8,9-HxCDD	3.0400	2.71	0.219	0.997		89.0	50 - 150
1,2,3,4,6,7,8-HpCDF	18.700	22.2	0.209	0.997		118	50 - 150
1,2,3,4,7,8,9-HpCDF	1.6300	1.47	0.239	0.997		89.9	50 - 150
1,2,3,4,6,7,8-HpCDD	90.600	98.8	0.558	2.49		109	50 - 150
OCDF	58.400	63.4	1.10	2.49		109	50 - 150
OCDD	811.00	816	4.59	9.97	B	101	50 - 150

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:20:00 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.704	1.001	1.931e3	2.281e3	0.702	0.847	0.770	1348	2756	2.57e4	3.42e4	19.0	12.4	NO	dd	bd	0.510
12378-PeCDF	29.844	1.000	2.259e3	1.302e3	0.679	1.736	1.550	1494	1518	3.67e4	1.90e4	24.6	12.5	NO	bb	bb	0.512
23478-PeCDF	31.192	1.001	1.904e3	1.201e3	0.786	1.585	1.550	1494	1518	3.30e4	1.61e4	22.1	10.6	NO	MM	bb	0.416
123478-HxCDF	34.813	1.001	6.498e3	4.782e3	1.166	1.359	1.240	853	989	9.96e4	7.36e4	116.8	74.4	NO	dd	dd	1.275
234678-HxCDF	35.816	1.000	4.403e3	3.948e3	1.140	1.115	1.240	853	989	4.68e4	4.08e4	54.8	41.3	NO	bb	bd	0.953
123678-HxCDF	34.958	1.001	2.657e3	1.912e3	1.091	1.390	1.240	853	989	3.58e4	2.84e4	42.0	28.7	NO	db	db	0.502
123789-HxCDF	36.819	1.000	7.916e2	8.807e2	1.137	0.899	1.240	853	989	1.41e4	1.39e4	16.5	14.1	YES	bb	bb	0.220
1234678-HpCDF	38.680	1.000	3.328e4	3.223e4	1.003	1.033	1.050	1761	1340	5.07e5	5.15e5	288.1	384.7	NO	bb	bb	11.109
1234789-HpCDF	40.908	1.000	1.990e3	2.221e3	0.953	0.896	1.050	1761	1340	3.23e4	2.99e4	18.3	22.3	NO	bb	bb	0.735
OCDF	45.107	1.006	6.639e4	7.422e4	0.778	0.895	0.890	1046	751	7.89e5	8.99e5	754.4	1197.1	NO	bb	bb	31.800
2378-TCDD	26.339	1.001	1.913e3	2.863e3	1.149	0.668	0.770	1018	618	2.99e4	4.10e4	29.4	66.4	NO	bd	bd	0.464
12378-PeCDD	31.449	1.001	2.532e3	1.454e3	1.022	1.741	1.550	1546	1421	3.44e4	2.04e4	22.2	14.3	NO	bd	bb	0.615
123478-HxCDD	35.961	1.000	2.424e3	2.389e3	0.996	1.015	1.240	1662	1458	3.61e4	3.51e4	21.7	24.1	YES	bd	bd	0.681
123678-HxCDD	36.072	1.000	6.676e3	6.194e3	1.001	1.078	1.240	1662	1458	1.08e5	9.06e4	65.0	62.1	NO	db	MM	1.643
123789-HxCDD	36.451	1.011	4.736e3	4.449e3	0.907	1.065	1.240	1662	1458	7.56e4	6.37e4	45.5	43.7	NO	bb	bb	1.357
1234678-HpCDD	40.172	1.000	1.484e5	1.422e5	1.039	1.044	1.050	3190	2181	2.25e6	2.13e6	705.6	977.3	NO	bb	bb	49.528
OCDD	44.869	1.000	1.002e6	1.137e6	0.920	0.881	0.890	2912	1679	1.26e7	1.46e7	4337.5	8691.9	NO	bb	bb	409.065
13C-2378-TCDF	25.676	1.007	5.202e5	6.571e5	1.620	0.792	0.770	1736	1439	7.61e6	9.73e6	4383.9	6763.5	NO	bb	bd	91.753
13C-12378-PeCDF	29.833	1.170	6.185e5	4.062e5	1.240	1.523	1.550	2793	2840	8.90e6	5.78e6	3186.6	2036.1	NO	bd	bd	104.304
13C-23478-PeCDF	31.170	1.222	5.773e5	3.717e5	1.118	1.553	1.550	2793	2840	8.58e6	5.55e6	3072.4	1953.3	NO	bb	bb	107.197
13C-123478-HxCDF	34.791	0.955	2.532e5	5.055e5	1.168	0.501	0.510	1743	2517	3.85e6	7.60e6	2208.1	3021.7	NO	bd	bd	77.371
13C-123678-HxCDF	34.936	0.959	2.953e5	5.398e5	1.386	0.547	0.510	1743	2517	4.10e6	7.81e6	2351.9	3101.7	NO	dd	db	71.754
13C-234678-HxCDF	35.816	0.983	2.655e5	5.033e5	1.129	0.527	0.510	1743	2517	3.73e6	7.36e6	2142.8	2924.0	NO	bd	bb	81.103
13C-123789-HxCDF	36.830	1.011	2.247e5	4.448e5	0.932	0.505	0.510	1743	2517	4.11e6	8.10e6	2358.2	3218.1	NO	bb	bb	85.592
13C-1234678-HpCDF	38.668	1.061	1.793e5	4.086e5	0.895	0.439	0.440	2067	2277	3.03e6	6.71e6	1464.3	2945.6	NO	bb	bb	78.235
13C-1234789-HpCDF	40.897	1.122	1.795e5	4.218e5	0.770	0.426	0.440	2067	2277	2.50e6	5.67e6	1210.1	2491.0	NO	bb	bb	93.069
13C-1234-TCDD	25.506	0.000	3.460e5	4.459e5	1.000	0.776	0.770	1881	1127	5.32e6	6.84e6	2828.7	6068.5	NO	bb	bb	100.000
13C-2378-TCDD	26.311	1.032	3.937e5	5.031e5	1.152	0.783	0.770	1881	1127	5.61e6	7.19e6	2981.3	6377.8	NO	bb	bb	98.266
13C-12378-PeCDD	31.426	1.232	3.898e5	2.446e5	0.829	1.594	1.550	1136	1313	5.42e6	3.39e6	4768.9	2578.5	NO	bd	bd	96.659
13C-123478-HxCDD	35.950	0.987	3.970e5	3.127e5	0.995	1.270	1.240	1799	1152	5.92e6	4.68e6	3291.3	4059.7	NO	bd	bd	84.961
13C-123678-HxCDD	36.061	0.990	4.376e5	3.449e5	1.157	1.269	1.240	1799	1152	6.26e6	5.00e6	3478.9	4337.6	NO	db	db	80.590
13C-1234678-HpCDD	40.161	1.102	2.973e5	2.674e5	0.840	1.112	1.050	1937	1586	4.18e6	3.85e6	2157.3	2424.1	NO	bb	bb	80.065
13C-OCDD	44.851	1.231	5.382e5	5.988e5	0.767	0.899	0.890	1195	1004	6.10e6	6.88e6	5108.6	6853.2	NO	bd	bd	176.483
13C-123789-HxCDD	36.440	0.000	4.661e5	3.733e5	1.000	1.249	1.240	1799	1152	6.87e6	5.46e6	3821.0	4738.6	NO	bb	bd	100.000
37CL-2378-TCDD	26.339	1.033	3.739e5		1.288			982		5.52e6		5624.1			bb		36.663

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:20:00 Pacific Daylight Time

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.201	0.865	2.768e2	5.924e2	0.802	0.467	0.770	1348	2756	5.63e3	9.10e3	4.2	3.3	YES	bb	bb	0.092
1289-TCDF					0.678		0.770	1348	2756								
13468-PECDF					1.246		1.550	703	764								
12389-PECDF					0.496		1.550	1494	1518								
123468-HXCDF	33.142	0.953	5.506e3	4.482e3	1.169	1.229	1.240	853	989	8.81e4	6.89e4	103.2	69.7	NO	bb	bb	1.126
1368-TCDD	23.472	0.892	1.839e3	1.550e3	1.015	1.186	0.770	1018	618	2.53e4	2.65e4	24.9	42.9	YES	bb	bb	0.372
1289-TCDD					0.909		0.770	1018	618								
12479-PECDD	28.753	0.915	2.350e3	2.038e3	2.301	1.153	1.550	1546	1421	4.20e4	2.56e4	27.1	18.0	YES	bd	bb	0.300
12389-PECDD	31.839	1.013	5.263e2	3.227e2	1.184	1.631	1.550	1546	1421	6.64e3	5.94e3	4.3	4.2	NO	bb	bb	0.113
124679-HXCDD	33.922	0.944	1.877e4	1.534e4	1.115	1.223	1.240	1662	1458	2.71e5	2.32e5	163.0	158.9	NO	bb	bb	4.310
1234679-HPCDD	39.136	0.975	2.216e5	2.156e5	1.137	1.028	1.050	3190	2181	3.53e6	3.40e6	1106.1	1557.1	NO	bb	bb	68.114
Total-tetrafurans			2.435e4		0.727			1348		3.42e5							6.517
Total-penta1			1.699e4					703		2.41e5							3.002
Total-pentafurans			1.100e4		0.654			1494		1.64e5							2.725
Total-hexafurans			6.347e4		1.141			853		9.43e5							13.106
Total-heptafurans			1.028e5		0.978			1761		1.63e6							34.883
Total-Furans			2.850e5		0.922			1348		4.10e6							92.034
Total-tetradioxins			6.662e3		1.024			1018		1.02e5							1.621
Total-pentadioxins			7.699e3		1.502			1546		1.15e5							1.546
Total-hexadioxins			5.860e4		1.005			1662		7.66e5							14.122
Total-heptadioxins			3.700e5		1.088			3190		5.78e6							117.642
Total-Dioxins			1.445e6		1.130			1018		1.94e7							543.995
Total-TEQ			1.730e6					1018		2.35e7							636.028
FUNCTION1 PFK			4.776e7					125834		2.81e7							
FUNCTION2 PFK			1.643e5					107400		4.59e5							0.000
FUNCTION3 PFK			2.791e6					128271		5.12e6							0.000
FUNCTION4 PFK			0.000e0					136511		0.00e0							
FUNCTION5 PFK			7.044e4					102936		1.94e6							
FUNCTION1 HXCD...			2.444e3					857		4.00e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			3.773e2					704		7.53e3							0.000
FUNCTION3 OCDPE			1.099e2					487		1.64e3							0.000
FUNCTION4 NCDPE			1.781e4					650		2.99e5							0.000
FUNCTION5 DCDPE			7.001e1					530		1.46e3							0.000

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.45	4.546e3	6.048e3	0.727	0.75	0.77	49.1	YES	NO	dd	dd	1.238
2	Total-tetrafurans	24.38	1.504e3	1.948e3	0.727	0.77	0.77	16.5	YES	NO	dd	dd	0.403
3	Total-tetrafurans	23.95	1.655e3	1.872e3	0.727	0.88	0.77	12.7	YES	NO	db	bb	0.412
4	Total-tetrafurans	23.70	1.123e3	1.489e3	0.727	0.75	0.77	12.8	YES	NO	dd	bd	0.305
5	Total-tetrafurans	23.44	1.352e3	1.891e3	0.727	0.71	0.77	15.3	YES	NO	dd	dd	0.379
6	Total-tetrafurans	23.36	1.959e3	2.515e3	0.727	0.78	0.77	20.0	YES	NO	dd	dd	0.523
7	Total-tetrafurans	23.03	2.453e3	3.091e3	0.727	0.79	0.77	24.3	YES	NO	bd	bd	0.648
8	Total-tetrafurans	25.92	1.260e3	1.884e3	0.727	0.67	0.77	14.6	YES	NO	db	dd	0.367
9	2378-TCDF	25.70	1.931e3	2.281e3	0.702	0.85	0.77	19.0	YES	NO	dd	bd	0.510
10	Total-tetrafurans	25.52	7.067e2	9.421e2	0.727	0.75	0.77	10.2	YES	NO	dd	db	0.193
11	Total-tetrafurans	25.45	1.258e3	1.687e3	0.727	0.75	0.77	14.4	YES	NO	bd	bd	0.344
12	Total-tetrafurans	24.79	2.795e3	3.393e3	0.727	0.82	0.77	29.1	YES	NO	bb	bb	0.723
13	Total-tetrafurans	24.60	1.813e3	2.231e3	0.727	0.81	0.77	15.5	YES	NO	db	db	0.473

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	26.79	4.950e2	3.063e2		1.62	1.55	10.6	YES	NO	db	db	0.085
2	Total-penta1	26.69	8.097e2	6.127e2		1.32	1.55	16.7	YES	NO	bd	bd	0.151
3	Total-penta1	27.54	5.830e2	3.360e2		1.74	1.55	9.6	YES	NO	bb	bb	0.098
4	Total-penta1	27.13	1.510e4	9.970e3		1.51	1.55	305.5	YES	NO	bd	bd	2.668

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.80	5.474e3	3.892e3	0.654	1.41	1.55	48.5	YES	NO	db	db	1.451
2	23478-PeCDF	31.19	1.904e3	1.201e3	0.786	1.58	1.55	22.1	YES	NO	MM	bb	0.416
3	Total-pentafurans	31.05	1.360e3	8.701e2	0.654	1.56	1.55	14.5	YES	NO	dd	db	0.346
4	12378-PeCDF	29.84	2.259e3	1.302e3	0.679	1.74	1.55	24.6	YES	NO	bb	bb	0.512

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.35	1.894e4	1.507e4	1.141	1.26	1.24	336.2	YES	NO	bb	bb	3.935
2	123468-HXCDF	33.14	5.506e3	4.482e3	1.169	1.23	1.24	103.2	YES	NO	bb	bb	1.126
3	234678-HxCDF	35.82	4.403e3	3.948e3	1.140	1.12	1.24	54.8	YES	NO	bb	bd	0.953
4	123678-HxCDF	34.96	2.657e3	1.912e3	1.091	1.39	1.24	42.0	YES	NO	db	db	0.502
5	123478-HxCDF	34.81	6.498e3	4.782e3	1.166	1.36	1.24	116.8	YES	NO	dd	dd	1.275
6	Total-hexafurans	34.19	2.546e4	2.050e4	1.141	1.24	1.24	452.1	YES	NO	bb	bb	5.316

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.34	6.754e4	6.645e4	0.978	1.02	1.05	616.4	YES	NO	bb	bb	23.039
2	1234678-HpCDF	38.68	3.328e4	3.223e4	1.003	1.03	1.05	288.1	YES	NO	bb	bb	11.109
3	1234789-HpCDF	40.91	1.990e3	2.221e3	0.953	0.90	1.05	18.3	YES	NO	bb	bb	0.735

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.45	4.546e3	6.048e3	0.727	0.75	0.77	49.1	YES	NO	dd	dd	1.238
2	Total-tetrafurans	24.38	1.504e3	1.948e3	0.727	0.77	0.77	16.5	YES	NO	dd	dd	0.403
3	Total-tetrafurans	23.95	1.655e3	1.872e3	0.727	0.88	0.77	12.7	YES	NO	db	bb	0.412
4	Total-tetrafurans	23.70	1.123e3	1.489e3	0.727	0.75	0.77	12.8	YES	NO	dd	bd	0.305
5	Total-tetrafurans	23.44	1.352e3	1.891e3	0.727	0.71	0.77	15.3	YES	NO	dd	dd	0.379
6	Total-tetrafurans	23.36	1.959e3	2.515e3	0.727	0.78	0.77	20.0	YES	NO	dd	dd	0.523
7	Total-tetrafurans	23.03	2.453e3	3.091e3	0.727	0.79	0.77	24.3	YES	NO	bd	bd	0.648
8	Total-tetrafurans	25.92	1.260e3	1.884e3	0.727	0.67	0.77	14.6	YES	NO	db	dd	0.367
9	2378-TCDF	25.70	1.931e3	2.281e3	0.702	0.85	0.77	19.0	YES	NO	dd	bd	0.510
10	Total-tetrafurans	25.52	7.067e2	9.421e2	0.727	0.75	0.77	10.2	YES	NO	dd	db	0.193
11	Total-tetrafurans	25.45	1.258e3	1.687e3	0.727	0.75	0.77	14.4	YES	NO	bd	bd	0.344
12	Total-tetrafurans	24.79	2.795e3	3.393e3	0.727	0.82	0.77	29.1	YES	NO	bb	bb	0.723
13	Total-tetrafurans	24.60	1.813e3	2.231e3	0.727	0.81	0.77	15.5	YES	NO	db	db	0.473
14	Total-pentafurans	28.80	5.474e3	3.892e3	0.654	1.41	1.55	48.5	YES	NO	db	db	1.451
15	23478-PeCDF	31.19	1.904e3	1.201e3	0.786	1.58	1.55	22.1	YES	NO	MM	bb	0.416
16	Total-pentafurans	31.05	1.360e3	8.701e2	0.654	1.56	1.55	14.5	YES	NO	dd	db	0.346
17	12378-PeCDF	29.84	2.259e3	1.302e3	0.679	1.74	1.55	24.6	YES	NO	bb	bb	0.512
18	Total-hexafurans	33.35	1.894e4	1.507e4	1.141	1.26	1.24	336.2	YES	NO	bb	bb	3.935
19	123468-HXCDF	33.14	5.506e3	4.482e3	1.169	1.23	1.24	103.2	YES	NO	bb	bb	1.126
20	234678-HxCDF	35.82	4.403e3	3.948e3	1.140	1.12	1.24	54.8	YES	NO	bb	bd	0.953
21	123678-HxCDF	34.96	2.657e3	1.912e3	1.091	1.39	1.24	42.0	YES	NO	db	db	0.502
22	123478-HxCDF	34.81	6.498e3	4.782e3	1.166	1.36	1.24	116.8	YES	NO	dd	dd	1.275
23	Total-hexafurans	34.19	2.546e4	2.050e4	1.141	1.24	1.24	452.1	YES	NO	bb	bb	5.316
24	Total-heptafurans	39.34	6.754e4	6.645e4	0.978	1.02	1.05	616.4	YES	NO	bb	bb	23.039
25	1234678-HpCDF	38.68	3.328e4	3.223e4	1.003	1.03	1.05	288.1	YES	NO	bb	bb	11.109
26	1234789-HpCDF	40.91	1.990e3	2.221e3	0.953	0.90	1.05	18.3	YES	NO	bb	bb	0.735
27	OCDF	45.11	6.639e4	7.422e4	0.778	0.89	0.89	754.4	YES	NO	bb	bb	31.800
28	Total-penta1	26.79	4.950e2	3.063e2		1.62	1.55	10.6	YES	NO	db	db	0.085
29	Total-penta1	26.69	8.097e2	6.127e2		1.32	1.55	16.7	YES	NO	bd	bd	0.151
30	Total-penta1	27.54	5.830e2	3.360e2		1.74	1.55	9.6	YES	NO	bb	bb	0.098
31	Total-penta1	27.13	1.510e4	9.970e3		1.51	1.55	305.5	YES	NO	bd	bd	2.668

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.95	1.285e3	1.530e3	1.024	0.84	0.77	17.2	YES	NO	bb	bb	0.306
2	Total-tetradioxins	24.46	1.243e3	1.419e3	1.024	0.88	0.77	20.0	YES	NO	bb	bb	0.290
3	2378-TCDD	26.34	1.913e3	2.863e3	1.149	0.67	0.77	29.4	YES	NO	bd	bd	0.464
4	Total-tetradioxins	25.97	7.484e2	8.797e2	1.024	0.85	0.77	8.6	YES	NO	bb	bb	0.177
5	Total-tetradioxins	25.52	1.473e3	2.053e3	1.024	0.72	0.77	25.6	YES	NO	bb	bb	0.384

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.19	9.855e2	6.640e2	1.502	1.48	1.55	11.7	YES	NO	bb	db	0.173
2	Total-pentadioxins	30.07	1.830e3	1.190e3	1.502	1.54	1.55	20.4	YES	NO	bb	dd	0.317
3	Total-pentadioxins	29.84	1.825e3	1.300e3	1.502	1.40	1.55	15.7	YES	NO	bb	bd	0.328
4	12389-PECDD	31.84	5.263e2	3.227e2	1.184	1.63	1.55	4.3	YES	NO	bb	bb	0.113
5	12378-PeCDD	31.45	2.532e3	1.454e3	1.022	1.74	1.55	22.2	YES	NO	bd	bb	0.615

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.45	4.736e3	4.449e3	0.907	1.06	1.24	45.5	YES	NO	bb	bb	1.357
2	123678-HxCDD	36.07	6.676e3	6.194e3	1.001	1.08	1.24	65.0	YES	NO	db	MM	1.643
3	Total-hexadioxins	35.16	2.390e3	1.769e3	1.005	1.35	1.24	25.3	YES	NO	db	db	0.555
4	Total-hexadioxins	35.06	2.171e4	1.777e4	1.005	1.22	1.24	127.1	YES	NO	bd	bd	5.266
5	Total-hexadioxins	34.70	4.313e3	3.108e3	1.005	1.39	1.24	35.0	YES	NO	bb	bb	0.990
6	124679-HXCDD	33.92	1.877e4	1.534e4	1.115	1.22	1.24	163.0	YES	NO	bb	bb	4.310

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.14	2.216e5	2.156e5	1.137	1.03	1.05	1106.1	YES	NO	bb	bb	68.114
2	1234678-HpCDD	40.17	1.484e5	1.422e5	1.039	1.04	1.05	705.6	YES	NO	bb	bb	49.528

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.95	1.285e3	1.530e3	1.024	0.84	0.77	17.2	YES	NO	bb	bb	0.306
2	Total-tetradioxins	24.46	1.243e3	1.419e3	1.024	0.88	0.77	20.0	YES	NO	bb	bb	0.290
3	2378-TCDD	26.34	1.913e3	2.863e3	1.149	0.67	0.77	29.4	YES	NO	bd	bd	0.464
4	Total-tetradioxins	25.97	7.484e2	8.797e2	1.024	0.85	0.77	8.6	YES	NO	bb	bb	0.177
5	Total-tetradioxins	25.52	1.473e3	2.053e3	1.024	0.72	0.77	25.6	YES	NO	bb	bb	0.384
6	Total-pentadioxins	30.19	9.855e2	6.640e2	1.502	1.48	1.55	11.7	YES	NO	bb	db	0.173
7	Total-pentadioxins	30.07	1.830e3	1.190e3	1.502	1.54	1.55	20.4	YES	NO	bb	dd	0.317
8	Total-pentadioxins	29.84	1.825e3	1.300e3	1.502	1.40	1.55	15.7	YES	NO	bb	bd	0.328
9	12389-PECDD	31.84	5.263e2	3.227e2	1.184	1.63	1.55	4.3	YES	NO	bb	bb	0.113
10	12378-PeCDD	31.45	2.532e3	1.454e3	1.022	1.74	1.55	22.2	YES	NO	bd	bb	0.615
11	123789-HxCDD	36.45	4.736e3	4.449e3	0.907	1.06	1.24	45.5	YES	NO	bb	bb	1.357
12	123678-HxCDD	36.07	6.676e3	6.194e3	1.001	1.08	1.24	65.0	YES	NO	db	MM	1.643
13	Total-hexadioxins	35.16	2.390e3	1.769e3	1.005	1.35	1.24	25.3	YES	NO	db	db	0.555
14	Total-hexadioxins	35.06	2.171e4	1.777e4	1.005	1.22	1.24	127.1	YES	NO	bd	bd	5.266
15	Total-hexadioxins	34.70	4.313e3	3.108e3	1.005	1.39	1.24	35.0	YES	NO	bb	bb	0.990
16	124679-HXCDD	33.92	1.877e4	1.534e4	1.115	1.22	1.24	163.0	YES	NO	bb	bb	4.310
17	1234679-HPCDD	39.14	2.216e5	2.156e5	1.137	1.03	1.05	1106.1	YES	NO	bb	bb	68.114
18	1234678-HpCDD	40.17	1.484e5	1.422e5	1.039	1.04	1.05	705.6	YES	NO	bb	bb	49.528
19	OCDD	44.87	1.002e6	1.137e6	0.920	0.88	0.89	4337.5	YES	NO	bb	bb	409.065

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	24.45	4.546e3	6.048e3	0.727	0.75	0.77	49.1	YES	NO	dd	dd	1.238
2	Total-tetrafurans	24.38	1.504e3	1.948e3	0.727	0.77	0.77	16.5	YES	NO	dd	dd	0.403
3	Total-tetrafurans	23.95	1.655e3	1.872e3	0.727	0.88	0.77	12.7	YES	NO	db	bb	0.412
4	Total-tetrafurans	23.70	1.123e3	1.489e3	0.727	0.75	0.77	12.8	YES	NO	dd	bd	0.305
5	Total-tetrafurans	23.44	1.352e3	1.891e3	0.727	0.71	0.77	15.3	YES	NO	dd	dd	0.379
6	Total-tetrafurans	23.36	1.959e3	2.515e3	0.727	0.78	0.77	20.0	YES	NO	dd	dd	0.523
7	Total-tetrafurans	23.03	2.453e3	3.091e3	0.727	0.79	0.77	24.3	YES	NO	bd	bd	0.648
8	Total-tetrafurans	25.92	1.260e3	1.884e3	0.727	0.67	0.77	14.6	YES	NO	db	dd	0.367
9	2378-TCDF	25.70	1.931e3	2.281e3	0.702	0.85	0.77	19.0	YES	NO	dd	bd	0.510
10	Total-tetrafurans	25.52	7.067e2	9.421e2	0.727	0.75	0.77	10.2	YES	NO	dd	db	0.193
11	Total-tetrafurans	25.45	1.258e3	1.687e3	0.727	0.75	0.77	14.4	YES	NO	bd	bd	0.344
12	Total-tetrafurans	24.79	2.795e3	3.393e3	0.727	0.82	0.77	29.1	YES	NO	bb	bb	0.723
13	Total-tetrafurans	24.60	1.813e3	2.231e3	0.727	0.81	0.77	15.5	YES	NO	db	db	0.473
14	Total-pentafurans	28.80	5.474e3	3.892e3	0.654	1.41	1.55	48.5	YES	NO	db	db	1.451
15	23478-PeCDF	31.19	1.904e3	1.201e3	0.786	1.58	1.55	22.1	YES	NO	MM	bb	0.416
16	Total-pentafurans	31.05	1.360e3	8.701e2	0.654	1.56	1.55	14.5	YES	NO	dd	db	0.346
17	12378-PeCDF	29.84	2.259e3	1.302e3	0.679	1.74	1.55	24.6	YES	NO	bb	bb	0.512
18	Total-hexafurans	33.35	1.894e4	1.507e4	1.141	1.26	1.24	336.2	YES	NO	bb	bb	3.935
19	123468-HXCDF	33.14	5.506e3	4.482e3	1.169	1.23	1.24	103.2	YES	NO	bb	bb	1.126
20	234678-HxCDF	35.82	4.403e3	3.948e3	1.140	1.12	1.24	54.8	YES	NO	bb	bd	0.953
21	123678-HxCDF	34.96	2.657e3	1.912e3	1.091	1.39	1.24	42.0	YES	NO	db	db	0.502
22	123478-HxCDF	34.81	6.498e3	4.782e3	1.166	1.36	1.24	116.8	YES	NO	dd	dd	1.275
23	Total-hexafurans	34.19	2.546e4	2.050e4	1.141	1.24	1.24	452.1	YES	NO	bb	bb	5.316
24	Total-heptafurans	39.34	6.754e4	6.645e4	0.978	1.02	1.05	616.4	YES	NO	bb	bb	23.039
25	1234678-HpCDF	38.68	3.328e4	3.223e4	1.003	1.03	1.05	288.1	YES	NO	bb	bb	11.109
26	1234789-HpCDF	40.91	1.990e3	2.221e3	0.953	0.90	1.05	18.3	YES	NO	bb	bb	0.735
27	OCDF	45.11	6.639e4	7.422e4	0.778	0.89	0.89	754.4	YES	NO	bb	bb	31.800
28	Total-penta1	26.79	4.950e2	3.063e2		1.62	1.55	10.6	YES	NO	db	db	0.085
29	Total-penta1	26.69	8.097e2	6.127e2		1.32	1.55	16.7	YES	NO	bd	bd	0.151
30	Total-penta1	27.54	5.830e2	3.360e2		1.74	1.55	9.6	YES	NO	bb	bb	0.098
31	Total-penta1	27.13	1.510e4	9.970e3		1.51	1.55	305.5	YES	NO	bd	bd	2.668
32	Total-tetradioxins	24.95	1.285e3	1.530e3	1.024	0.84	0.77	17.2	YES	NO	bb	bb	0.306
33	Total-tetradioxins	24.46	1.243e3	1.419e3	1.024	0.88	0.77	20.0	YES	NO	bb	bb	0.290
34	2378-TCDD	26.34	1.913e3	2.863e3	1.149	0.67	0.77	29.4	YES	NO	bd	bd	0.464
35	Total-tetradioxins	25.97	7.484e2	8.797e2	1.024	0.85	0.77	8.6	YES	NO	bb	bb	0.177
36	Total-tetradioxins	25.52	1.473e3	2.053e3	1.024	0.72	0.77	25.6	YES	NO	bb	bb	0.384
37	Total-pentadioxins	30.19	9.855e2	6.640e2	1.502	1.48	1.55	11.7	YES	NO	bb	db	0.173

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-pentadioxins	30.07	1.830e3	1.190e3	1.502	1.54	1.55	20.4	YES	NO	bb	dd	0.317
39	Total-pentadioxins	29.84	1.825e3	1.300e3	1.502	1.40	1.55	15.7	YES	NO	bb	bd	0.328
40	12389-PECDD	31.84	5.263e2	3.227e2	1.184	1.63	1.55	4.3	YES	NO	bb	bb	0.113
41	12378-PeCDD	31.45	2.532e3	1.454e3	1.022	1.74	1.55	22.2	YES	NO	bd	bb	0.615
42	123789-HxCDD	36.45	4.736e3	4.449e3	0.907	1.06	1.24	45.5	YES	NO	bb	bb	1.357
43	123678-HxCDD	36.07	6.676e3	6.194e3	1.001	1.08	1.24	65.0	YES	NO	db	MM	1.643
44	Total-hexadioxins	35.16	2.390e3	1.769e3	1.005	1.35	1.24	25.3	YES	NO	db	db	0.555
45	Total-hexadioxins	35.06	2.171e4	1.777e4	1.005	1.22	1.24	127.1	YES	NO	bd	bd	5.266
46	Total-hexadioxins	34.70	4.313e3	3.108e3	1.005	1.39	1.24	35.0	YES	NO	bb	bb	0.990
47	124679-HXCDD	33.92	1.877e4	1.534e4	1.115	1.22	1.24	163.0	YES	NO	bb	bb	4.310
48	1234679-HPCDD	39.14	2.216e5	2.156e5	1.137	1.03	1.05	1106.1	YES	NO	bb	bb	68.114
49	1234678-HpCDD	40.17	1.484e5	1.422e5	1.039	1.04	1.05	705.6	YES	NO	bb	bb	49.528
50	OCDD	44.87	1.002e6	1.137e6	0.920	0.88	0.89	4337.5	YES	NO	bb	bb	409.065

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.91	1.312e6					26.1	YES		bb		
2	FUNCTION1 PFK	24.70	3.906e7					68.1	YES		db		
3	FUNCTION1 PFK	22.33	2.766e6					49.8	YES		dd		
4	FUNCTION1 PFK	21.93	4.346e6					47.2	YES		dd		
5	FUNCTION1 PFK	21.10	2.728e5					31.9	YES		bd		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.22	1.643e5					4.3	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.21	1.006e6					11.7	YES		bb		0.000
2	FUNCTION3 PFK	36.61	1.785e6					28.2	YES		bb		0.000

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.73	2.594e3					0.9	NO		db		
2	FUNCTION5 PFK	44.70	1.373e3					0.7	NO		bd		
3	FUNCTION5 PFK	44.38	2.645e3					1.2	NO		bb		
4	FUNCTION5 PFK	44.13	2.679e3					0.7	NO		bb		
5	FUNCTION5 PFK	43.85	1.212e4					0.8	NO		bb		
6	FUNCTION5 PFK	43.27	3.461e3					1.3	NO		db		
7	FUNCTION5 PFK	43.19	5.849e3					1.6	NO		dd		
8	FUNCTION5 PFK	43.16	3.222e3					1.4	NO		dd		
9	FUNCTION5 PFK	43.12	3.709e3					1.6	NO		dd		
10	FUNCTION5 PFK	43.06	9.071e3					2.3	NO		bd		
11	FUNCTION5 PFK	45.95	7.673e3					1.7	NO		bb		
12	FUNCTION5 PFK	45.78	3.897e3					1.1	NO		bb		
13	FUNCTION5 PFK	45.72	2.839e3					1.2	NO		bb		
14	FUNCTION5 PFK	45.17	5.935e3					1.6	NO		bb		
15	FUNCTION5 PFK	44.83	3.369e3					0.9	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.26	7.543e1					1.3	NO		bb		0.000
2	FUNCTION1 HXCD...	26.10	4.365e2					7.2	YES		bb		0.000
3	FUNCTION1 HXCD...	25.87	9.421e2					19.4	YES		db		0.000
4	FUNCTION1 HXCD...	25.75	2.335e2					4.2	YES		bd		0.000
5	FUNCTION1 HXCD...	24.95	7.972e1					1.3	NO		bb		0.000
6	FUNCTION1 HXCD...	23.73	8.264e1					2.1	NO		bb		0.000
7	FUNCTION1 HXCD...	22.92	1.129e2					1.4	NO		bb		0.000
8	FUNCTION1 HXCD...	22.27	2.848e2					6.5	YES		db		0.000
9	FUNCTION1 HXCD...	22.07	1.066e2					1.6	NO		bd		0.000
10	FUNCTION1 HXCD...	21.96	8.994e1					1.8	NO		bb		0.000

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	29.83	2.749e2					7.6	YES		bb		0.000
2	FUNCTION2 HPCD...	28.22	1.025e2					3.1	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.43	1.099e2					3.4	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.35	1.781e4					459.8	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.75	7.001e1					2.7	NO		bb		0.000

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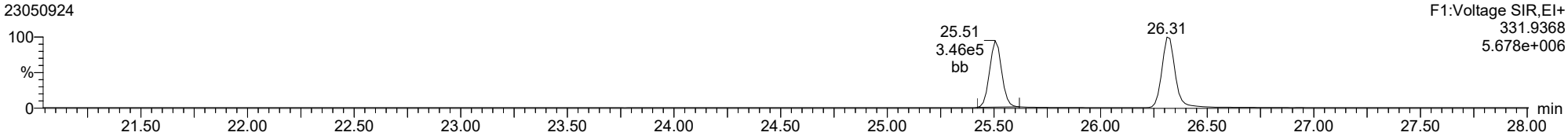

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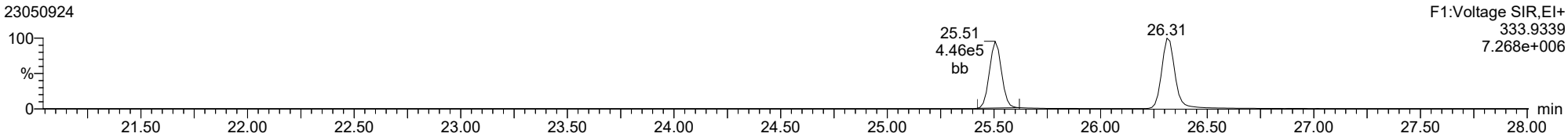

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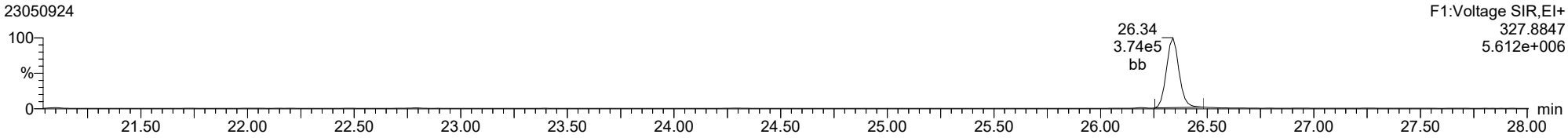

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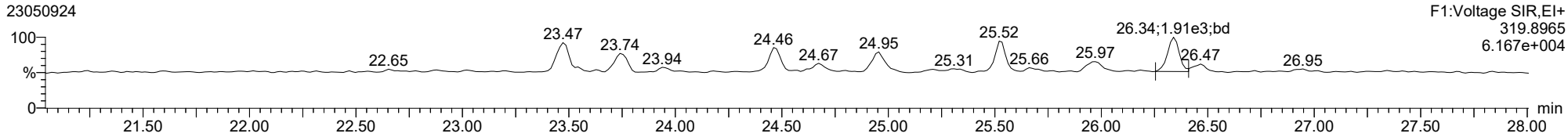

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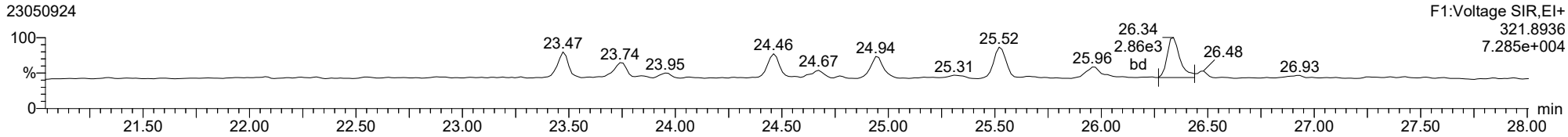

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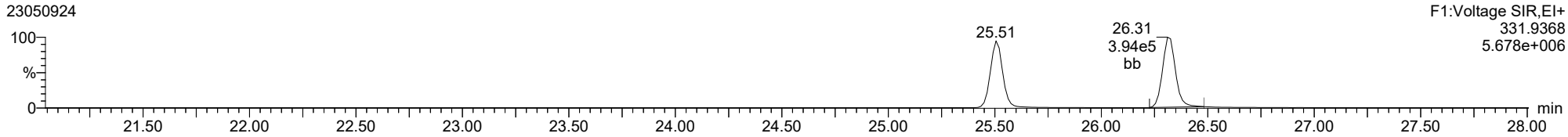

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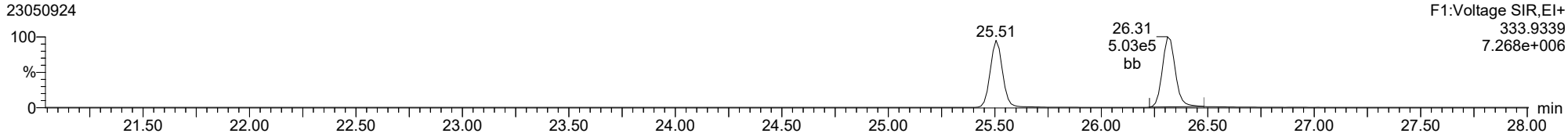

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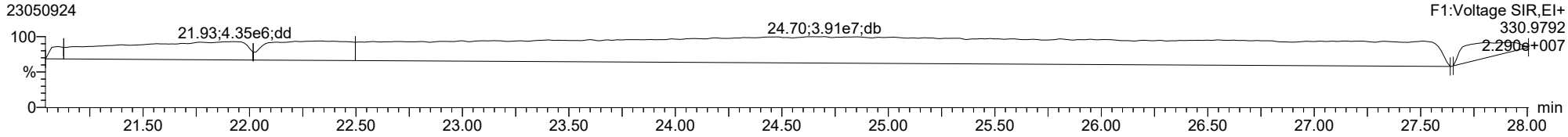

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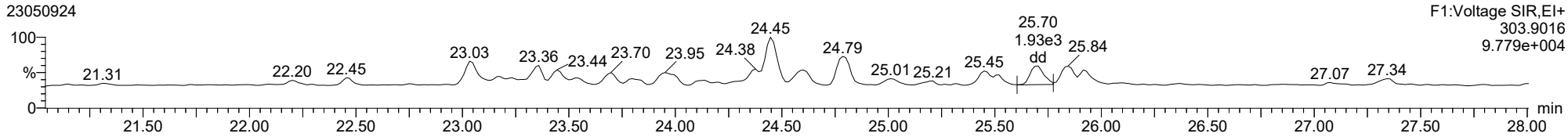

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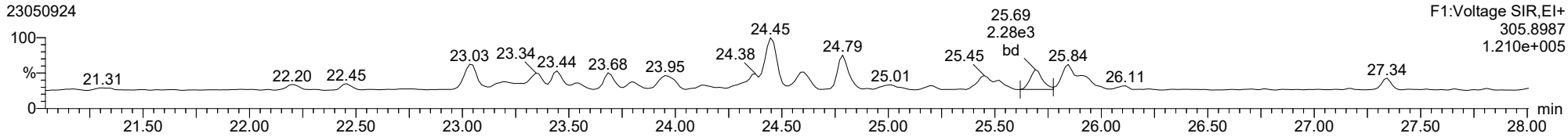

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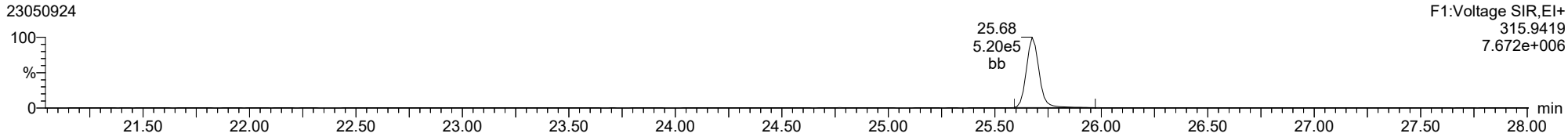

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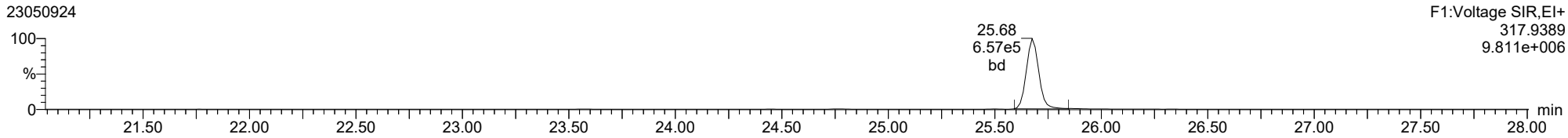

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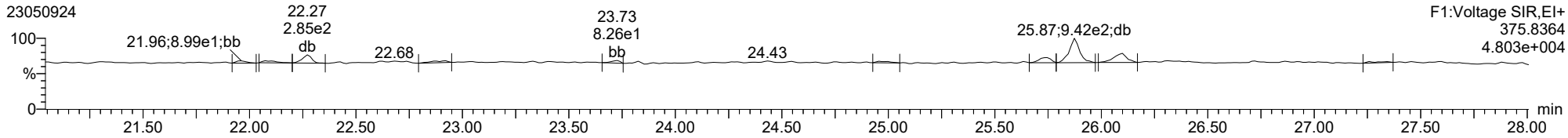

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ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

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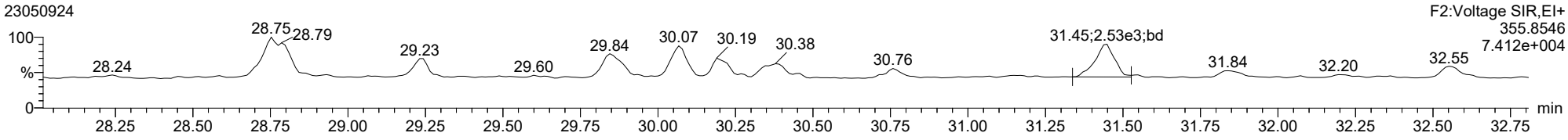

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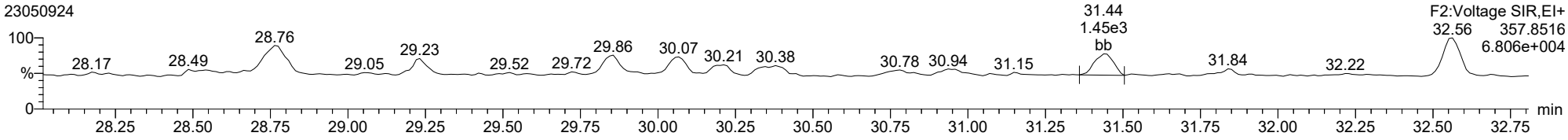

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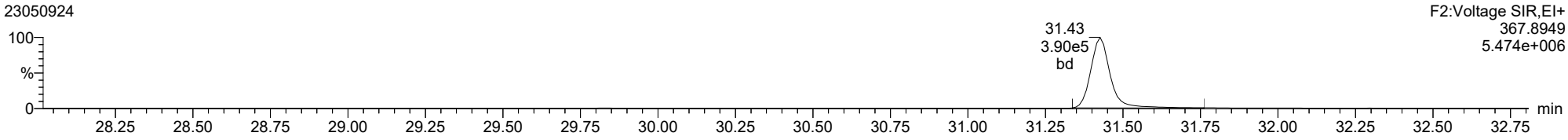

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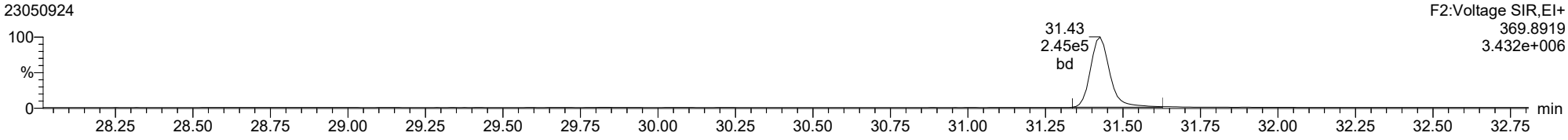

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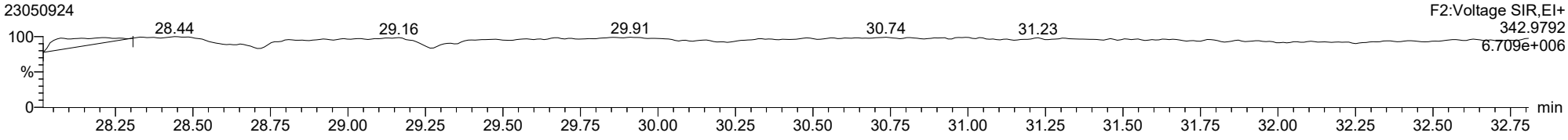

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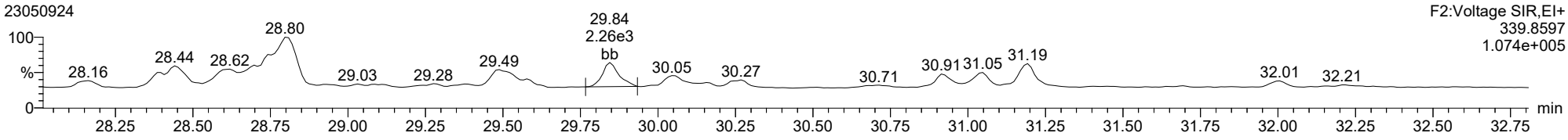

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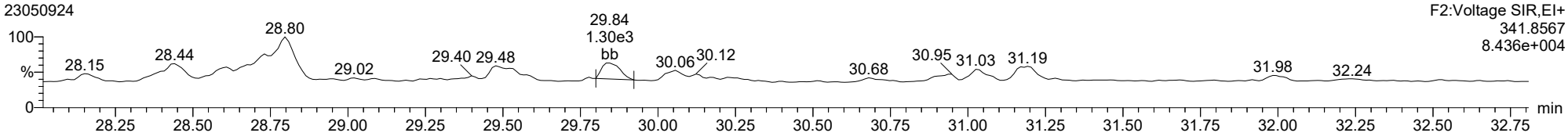

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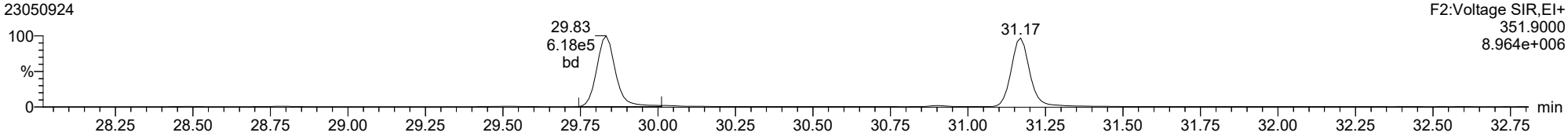

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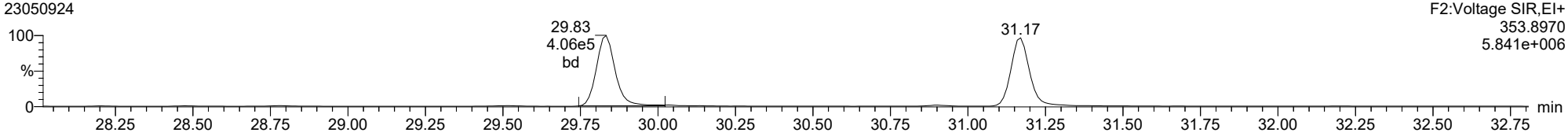
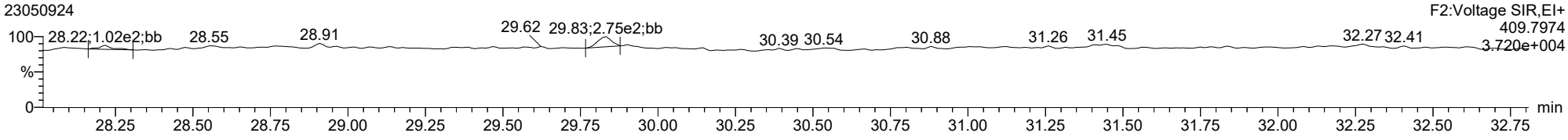


FUNCTION2 HPCDPE



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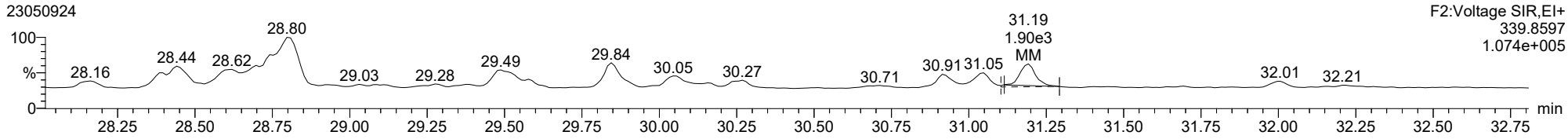

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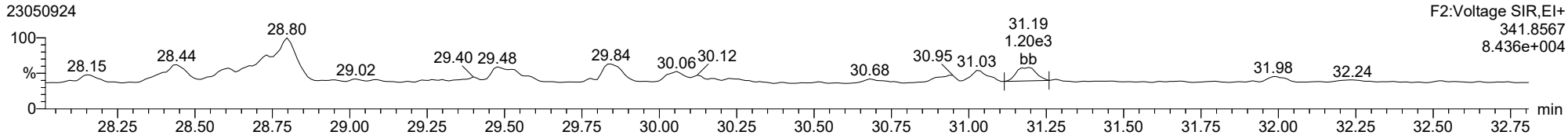

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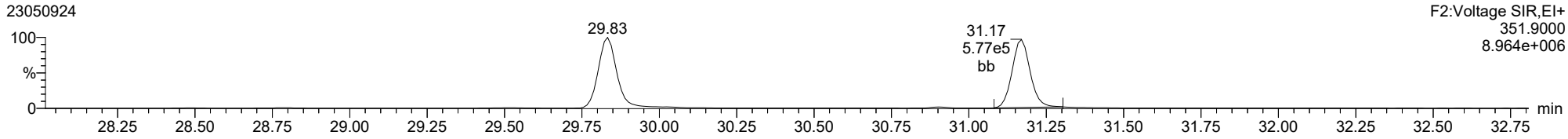

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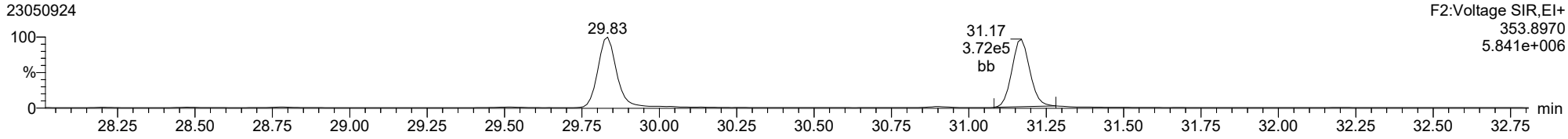

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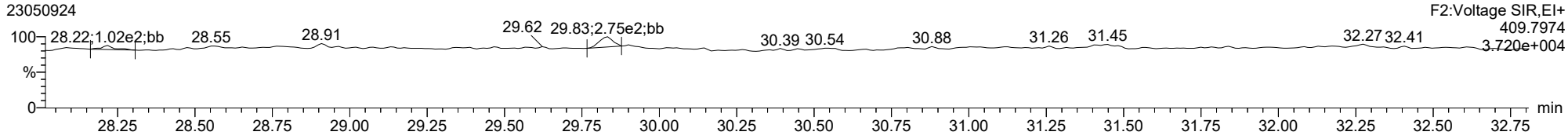

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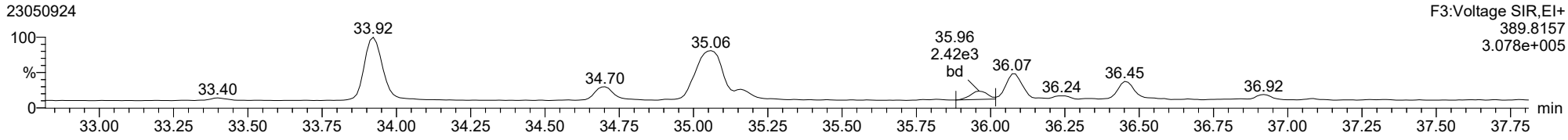
123478-HxCDD



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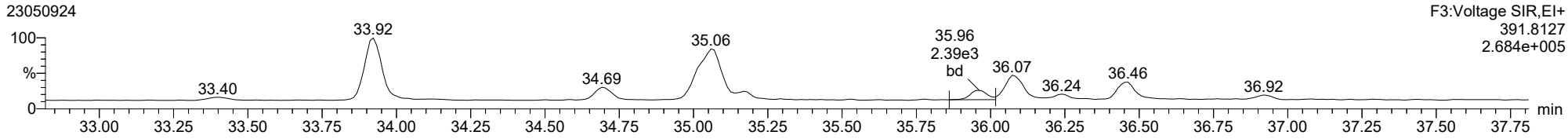

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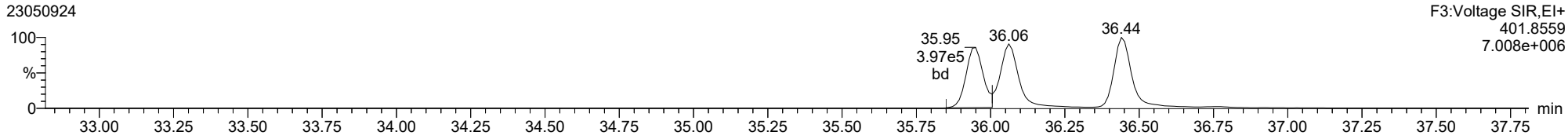

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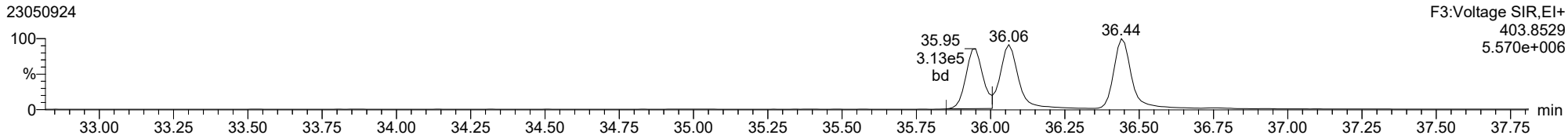

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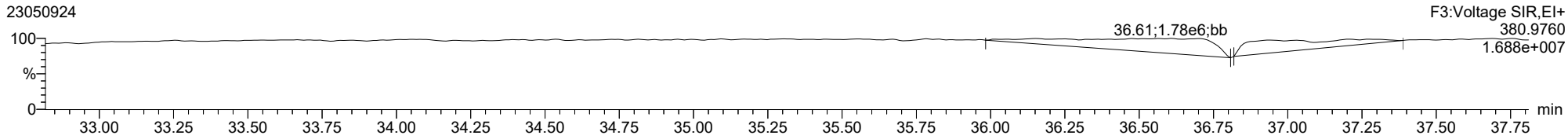

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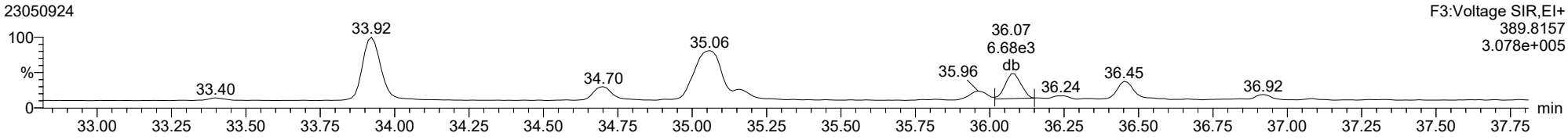
123678-HxCDD



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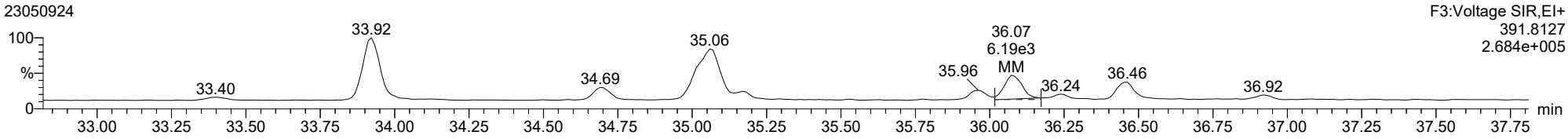

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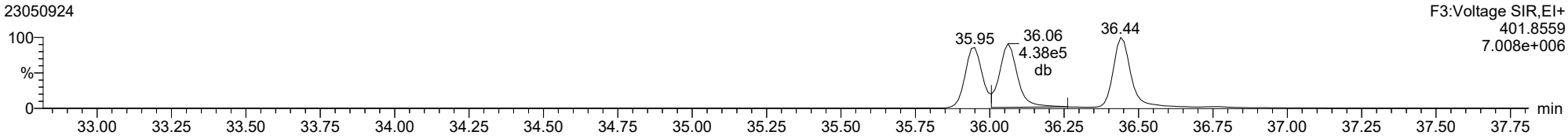

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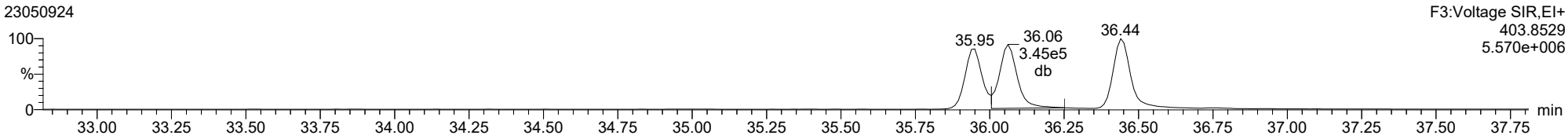

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Printed: Thursday, May 11, 2023 11:20:00 Pacific Daylight Time

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

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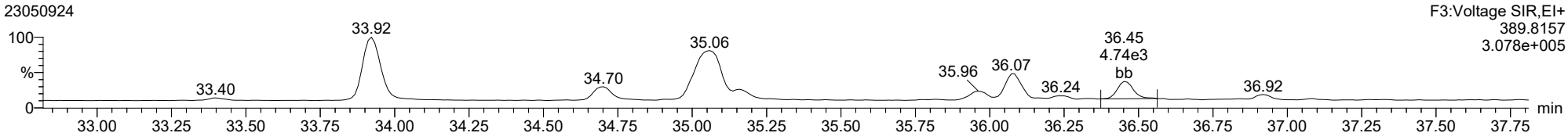

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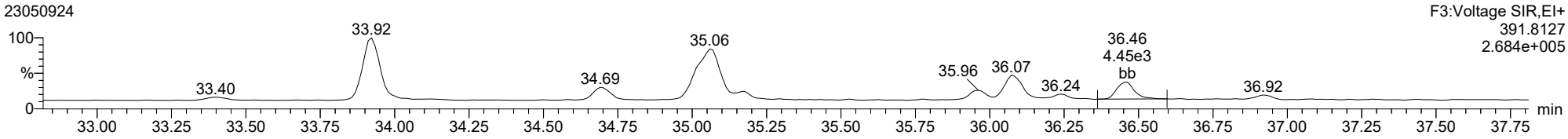

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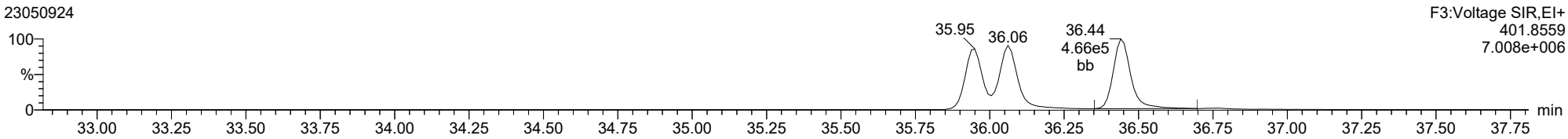

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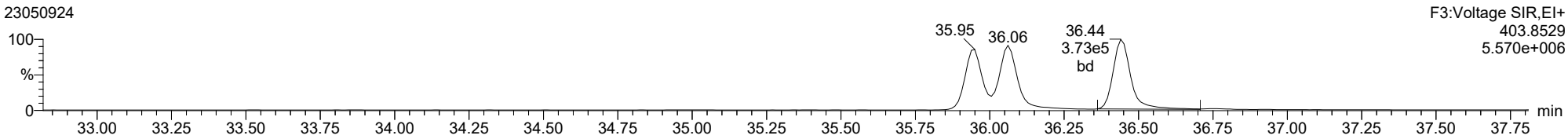

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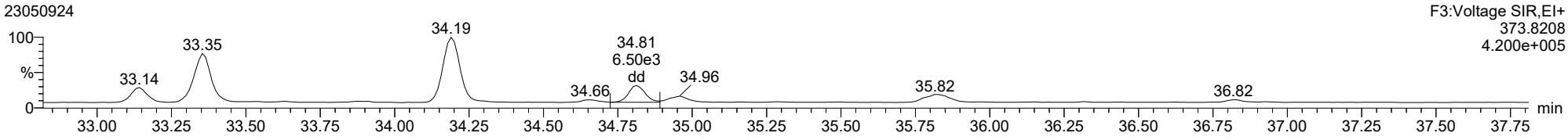

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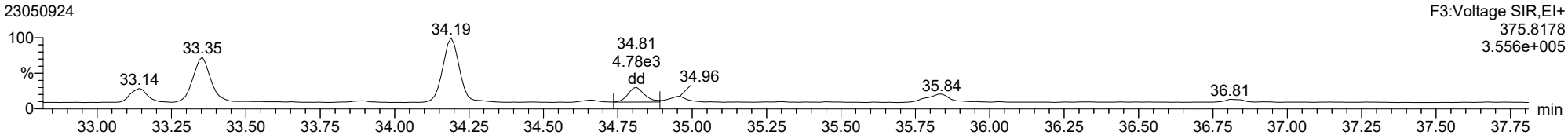

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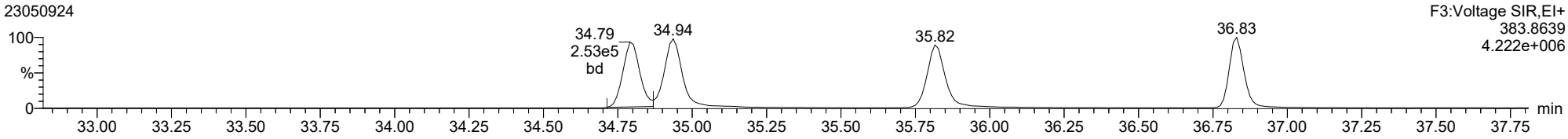

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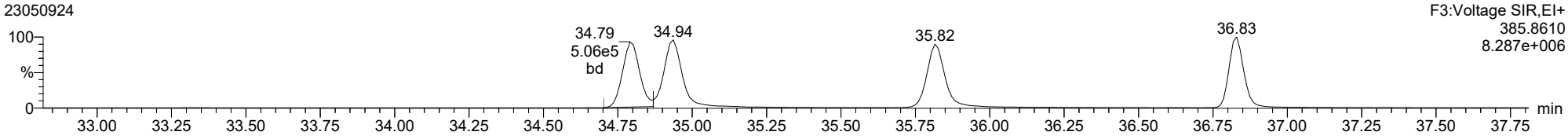

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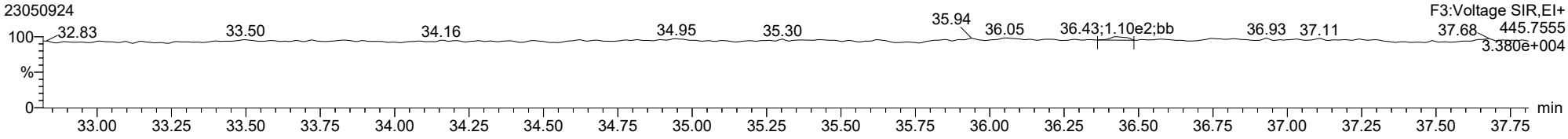

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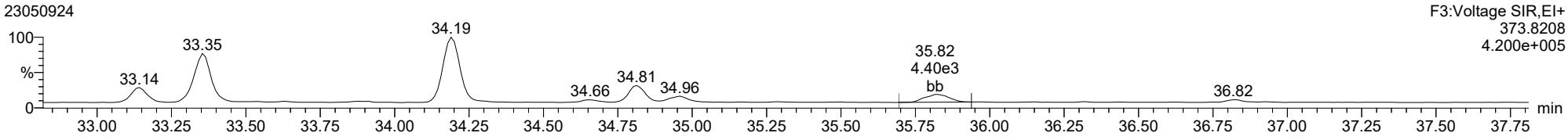

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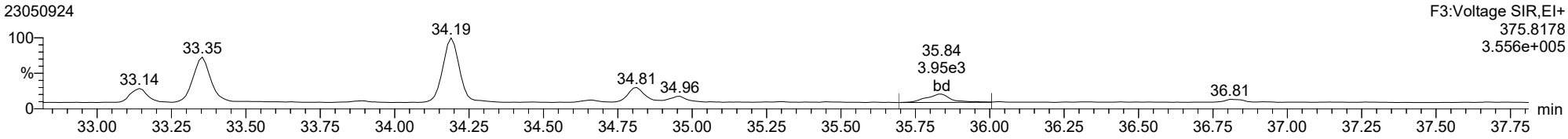

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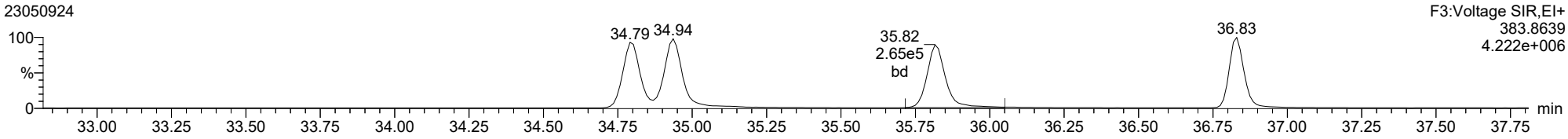

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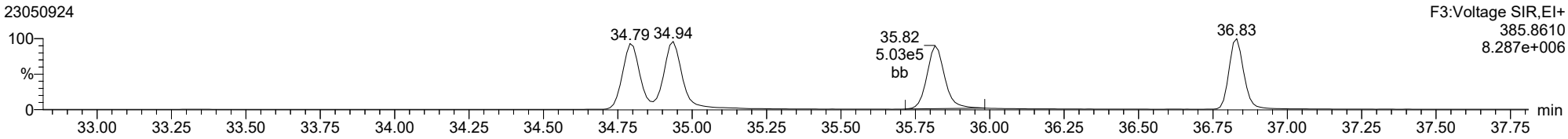

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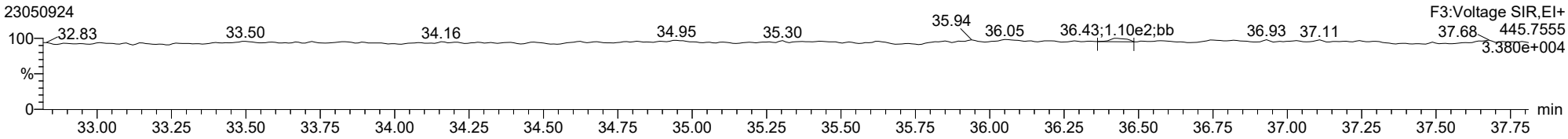

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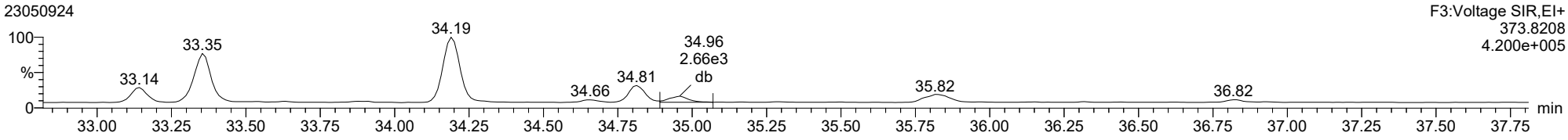

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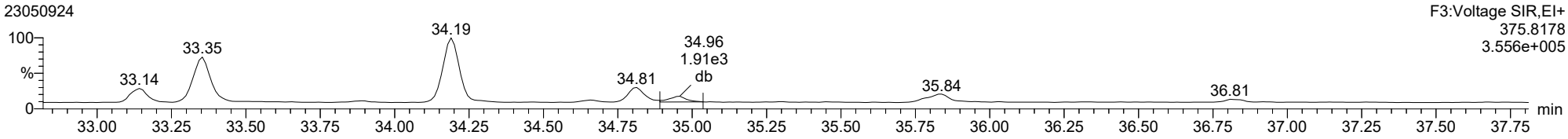

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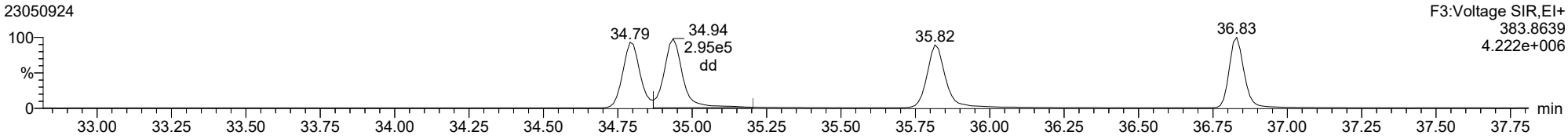

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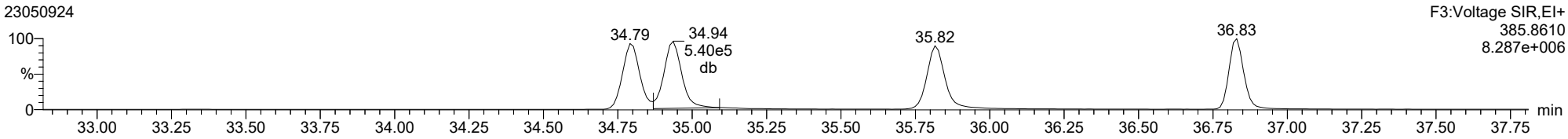

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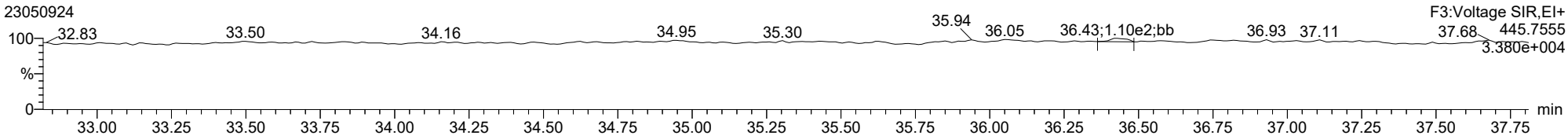

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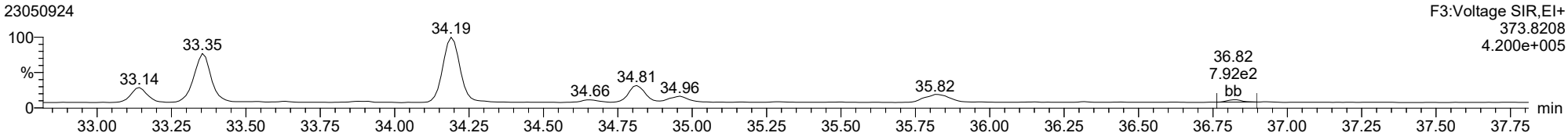

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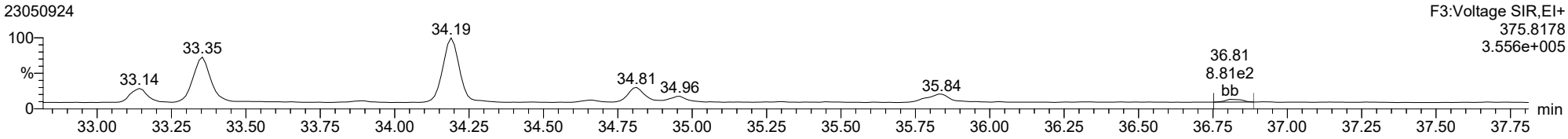

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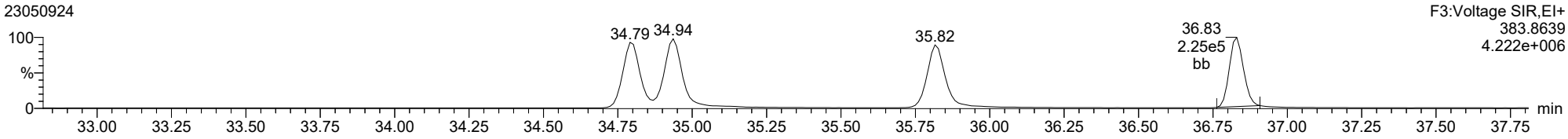

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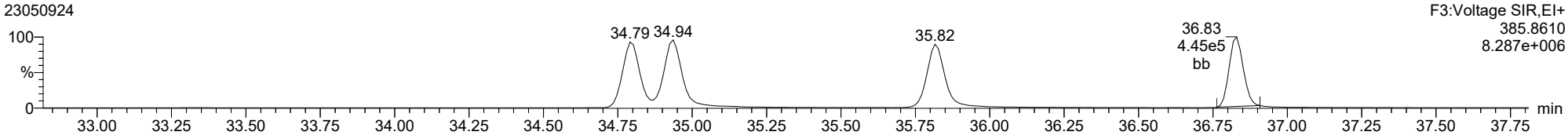

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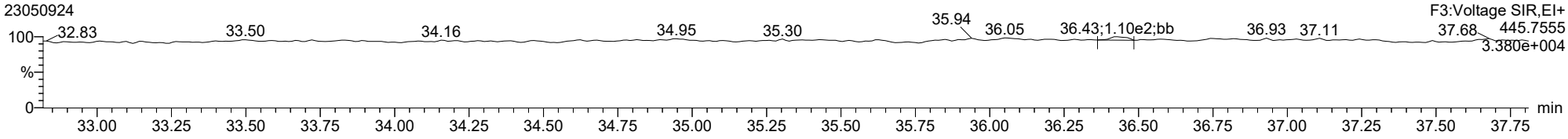

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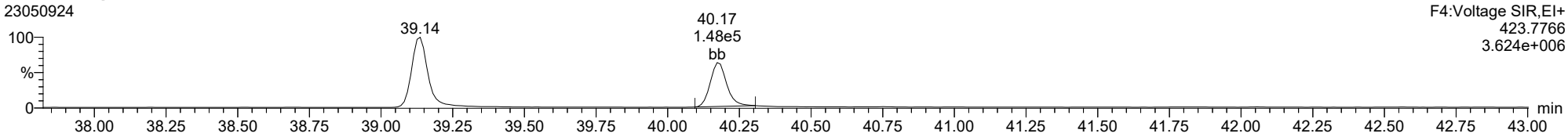

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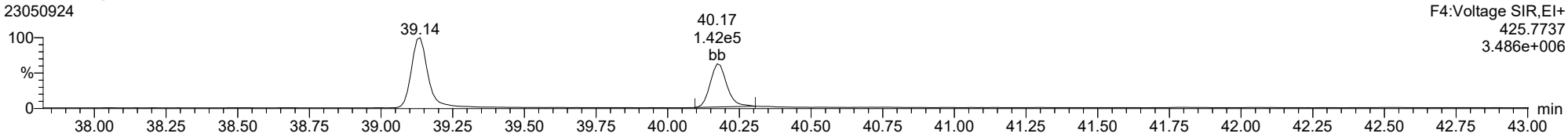

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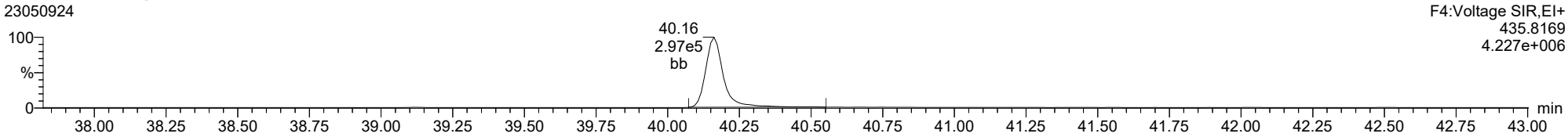

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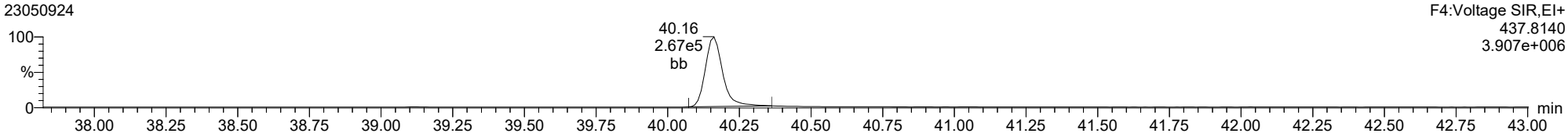
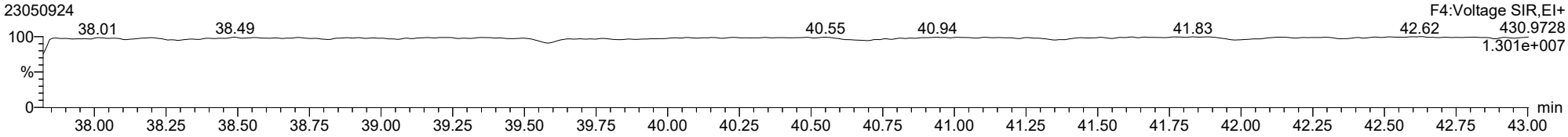


FUNCTION4 PFK



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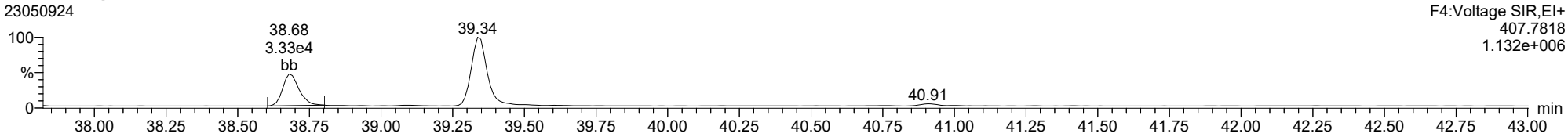

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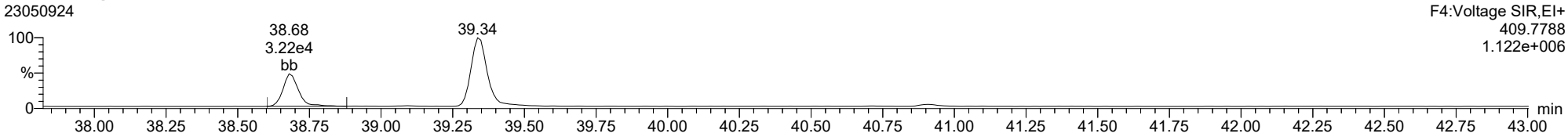

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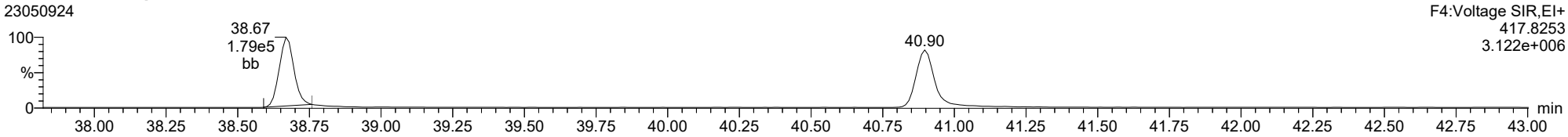

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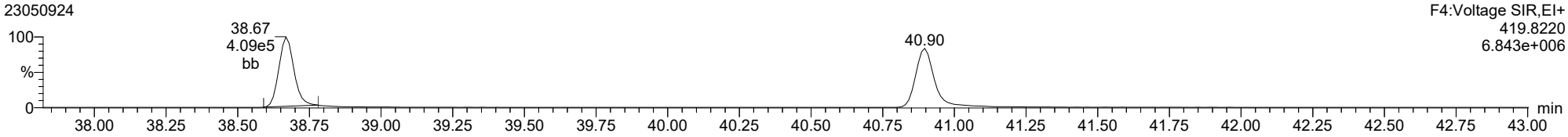

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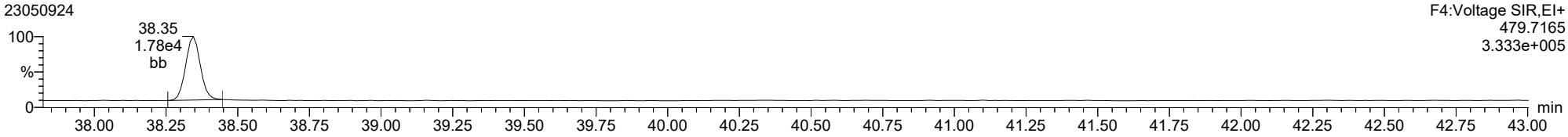

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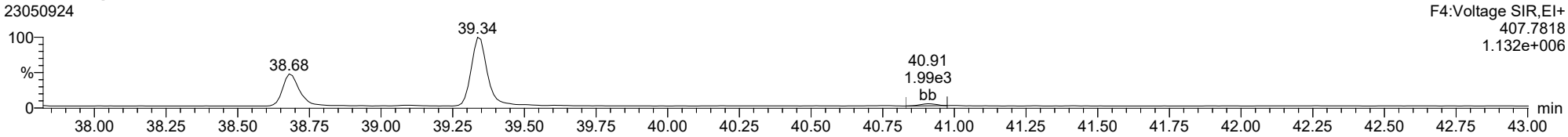

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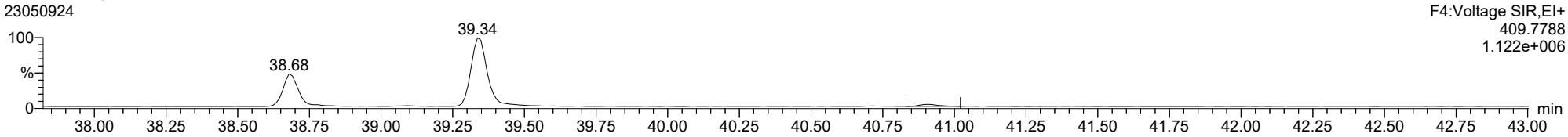

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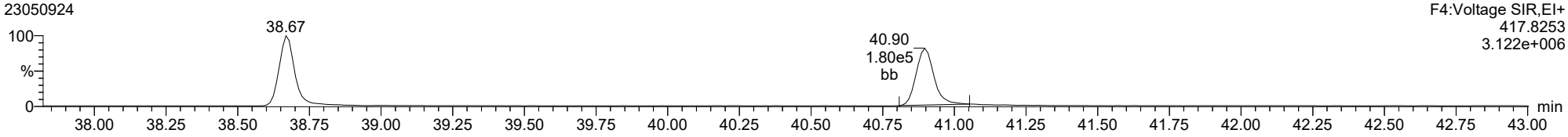

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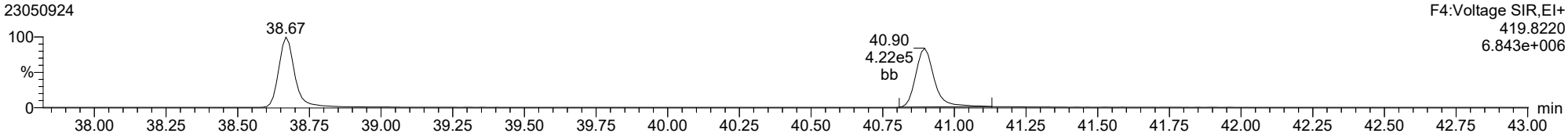

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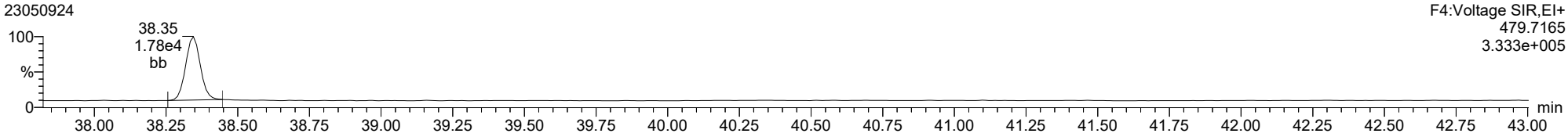

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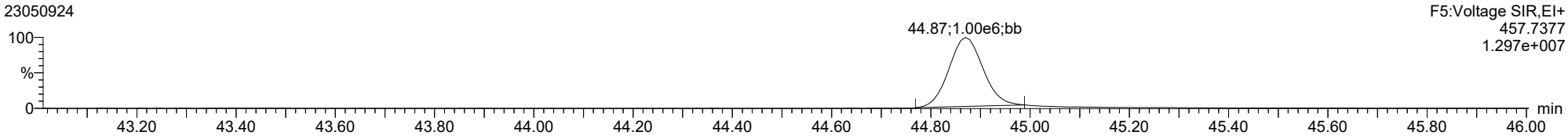

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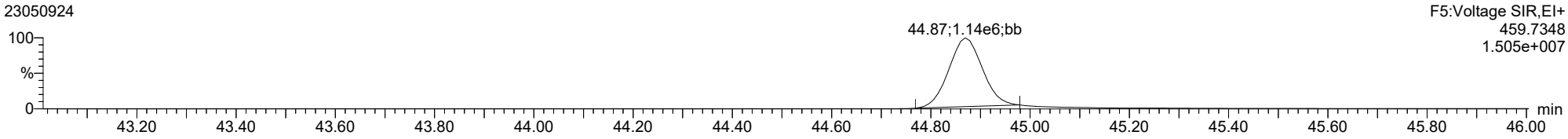

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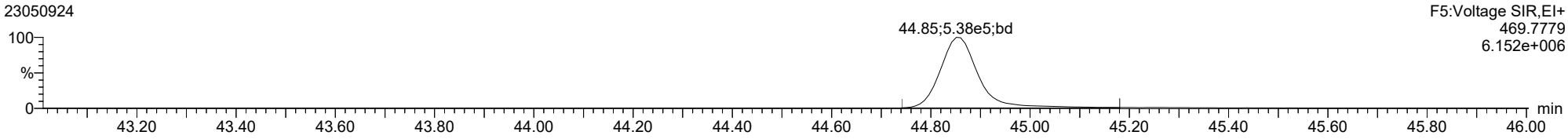

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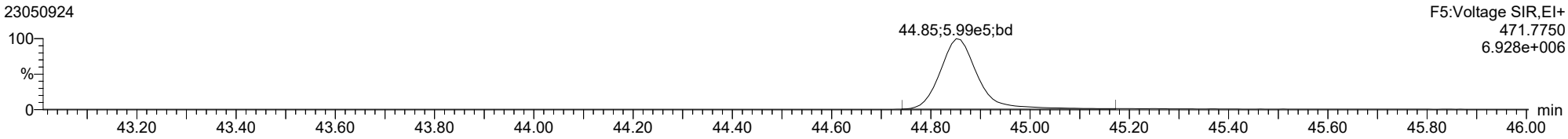
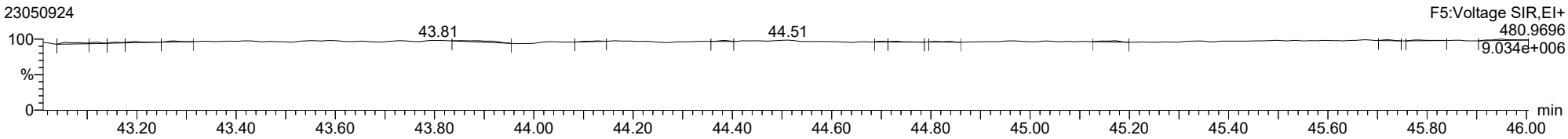


FUNCTION5 PFK



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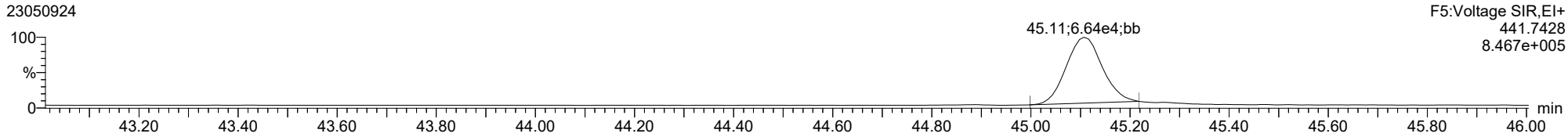

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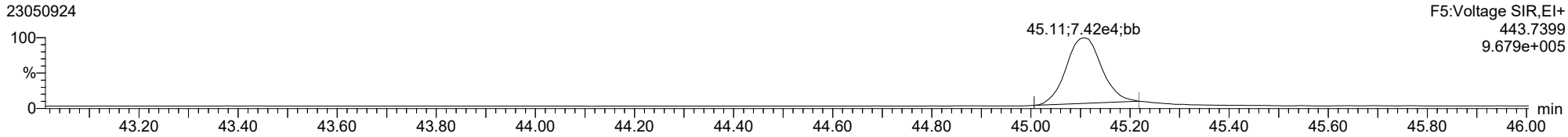

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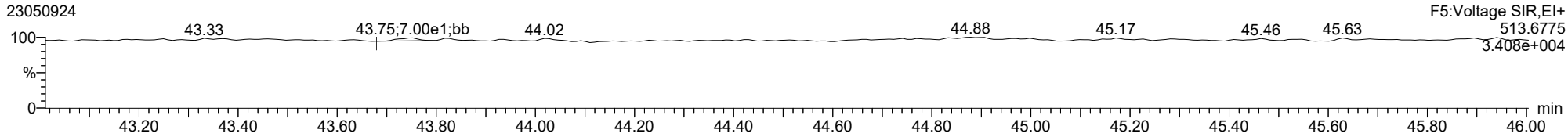

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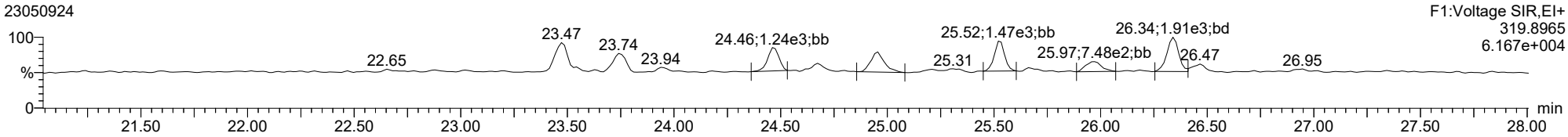
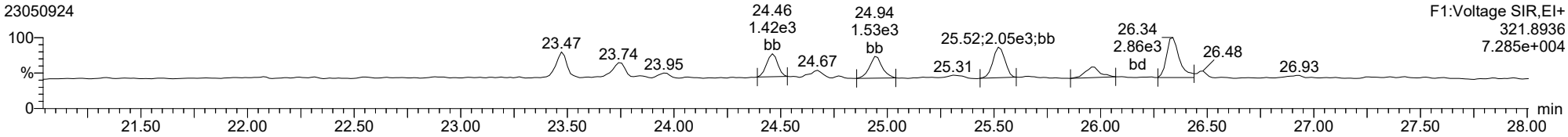
Total-tetradioxins



Total-tetradioxins



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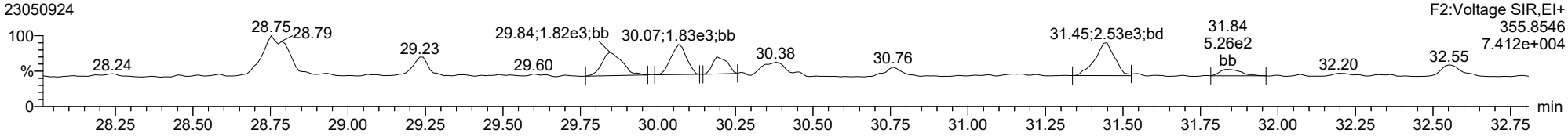

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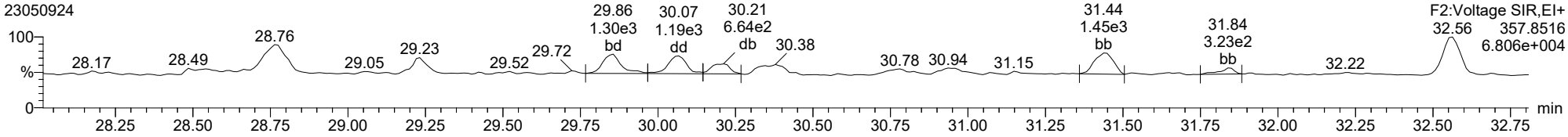

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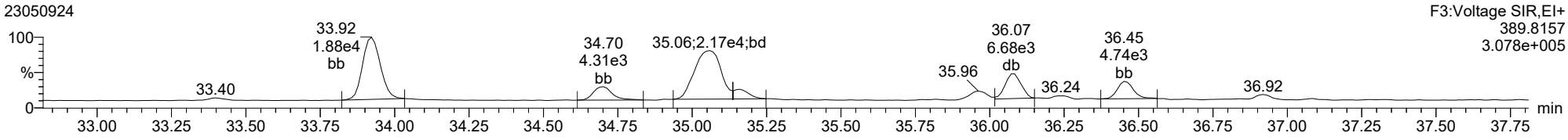
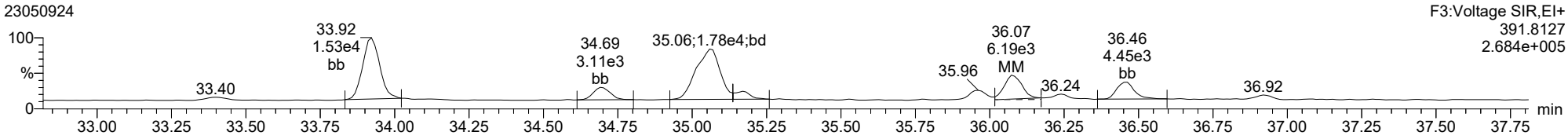
Total-hexadioxins



Total-hexadioxins



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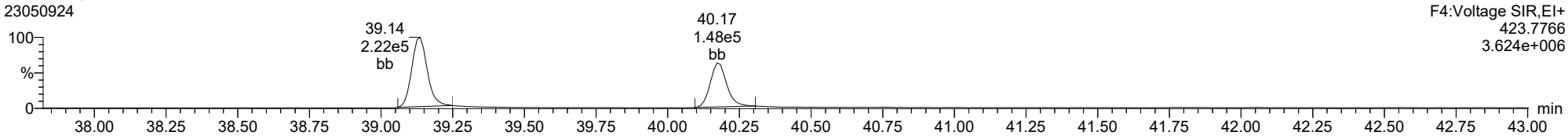

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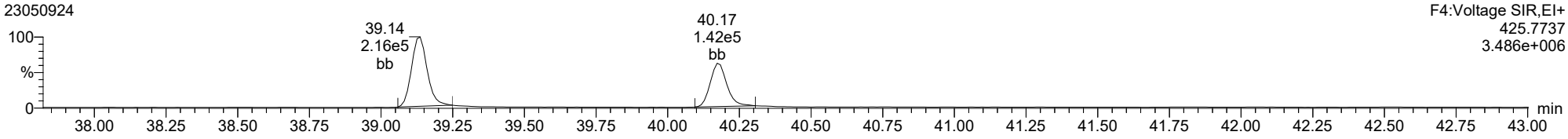

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Printed: Thursday, May 11, 2023 11:20:00 Pacific Daylight Time

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

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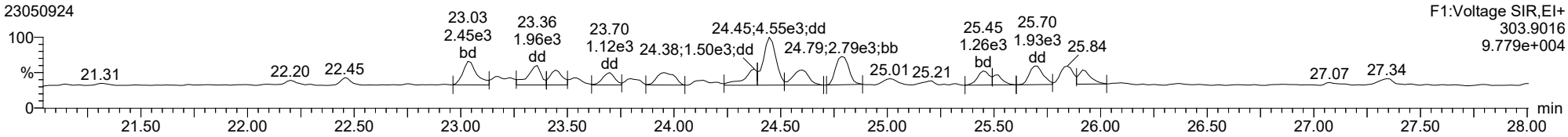

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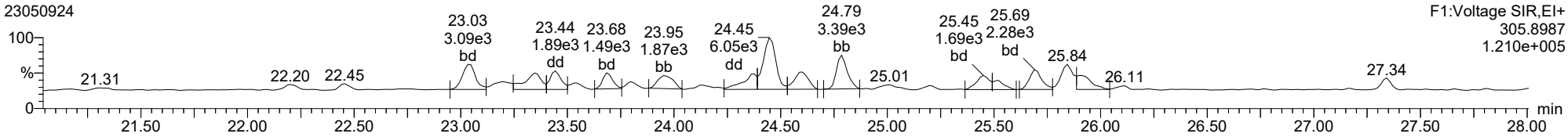

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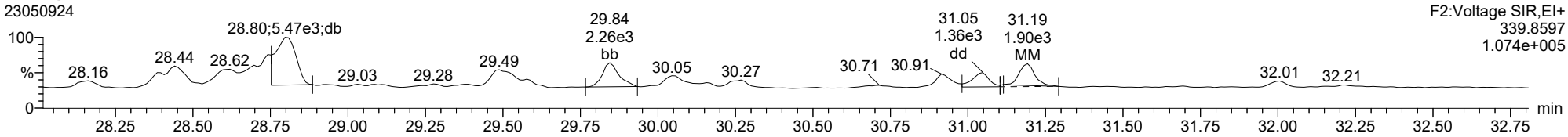

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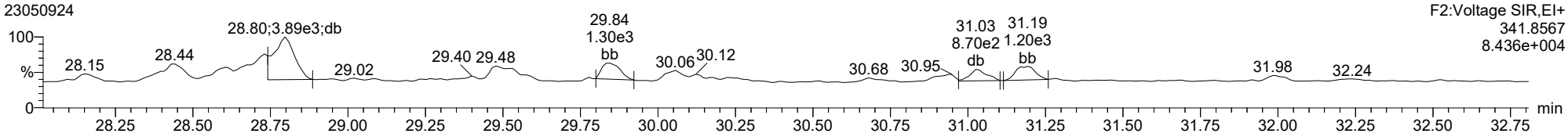

ID: BLD0657-SRM1, Name: 23050924, Date: 10-May-2023, Time: 07:55:32, Conditions: AUTOSPEC01, User: pk

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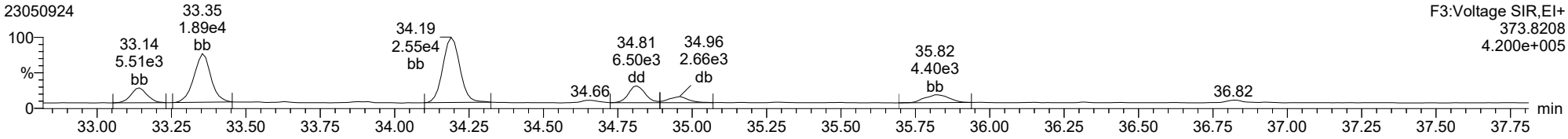

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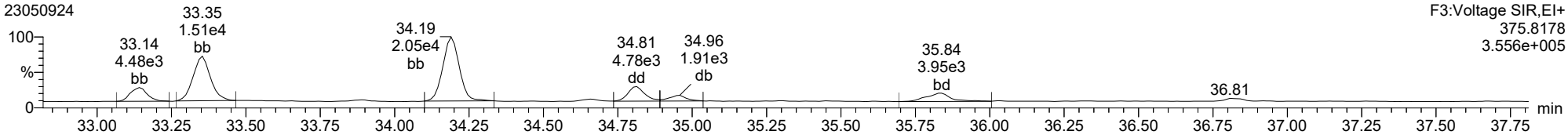

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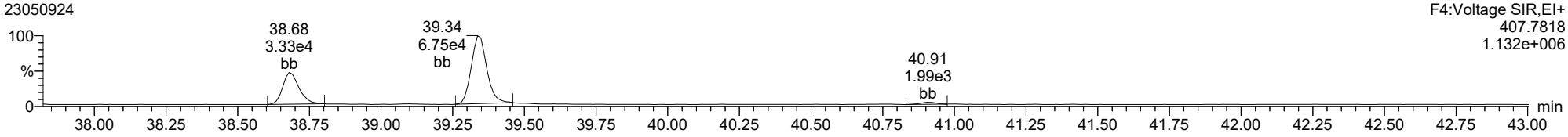
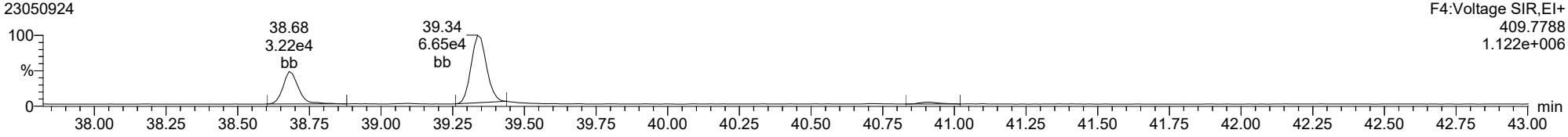


Total-heptafurans



INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,3,7,8-TCDF			0.5	0.6926363	2	0.6813225	10	0.7107923	40	0.719723	200	0.703162
2,3,7,8-TCDD			0.5	1.116738	2	1.187915	10	1.134128	40	1.147736	200	1.156792
1,2,3,7,8-PeCDF	0.5	0.7064839	2.5	0.5889757	10	0.710829	50	0.6668491	200	0.6891968	1000	0.7130453
2,3,4,7,8-PeCDF	0.5	0.7979673	2.5	0.750268	10	0.8092124	50	0.7777683	200	0.7907891	1000	0.7910175
1,2,3,7,8-PeCDD	0.5	1.103364	2.5	0.959607	10	1.01992	50	1.019473	200	1.01999	1000	1.008719
1,2,3,4,7,8-HxCDF	0.5	1.217557	2.5	1.181192	10	1.149885	50	1.142227	200	1.15269	1000	1.152678
1,2,3,6,7,8-HxCDF	0.5	1.080855	2.5	1.053928	10	1.175308	50	1.102076	200	1.035098	1000	1.097184
2,3,4,6,7,8-HxCDF	0.5	1.045907	2.5	1.140857	10	1.199347	50	1.11691	200	1.197861	1000	1.13731
1,2,3,7,8,9-HxCDF	0.5	1.190403	2.5	1.119796	10	1.130872	50	1.147742	200	1.139146	1000	1.094601
1,2,3,4,7,8-HxCDD	0.5	1.079554	2.5	0.961704	10	0.973768	50	0.967789	200	0.9862736	1000	1.004325
1,2,3,6,7,8-HxCDD	0.5	0.9586431	2.5	0.9983677	10	0.9838912	50	1.030566	200	1.022077	1000	1.012084
1,2,3,7,8,9-HxCDD	0.5	0.930997	2.5	0.8854269	10	0.8092562	50	0.9267543	200	0.9251392	1000	0.9651099
1,2,3,4,6,7,8-HpCDF	0.5	0.934103	2.5	1.075239	10	1.011687	50	0.9661089	200	1.026311	1000	1.004508
1,2,3,4,7,8,9-HpCDF	0.5	0.8861422	2.5	0.8930411	10	1.006144	50	0.9387033	200	0.9934576	1000	1.001203
1,2,3,4,6,7,8-HpCDD	0.5	1.103772	2.5	0.971421	10	1.040117	50	1.038088	200	1.030577	1000	1.050103
OCDF	1	0.8118871	5	0.7091624	20	0.7657645	100	0.7266152	400	0.8162858	2000	0.8371317
OCDD			5	1.012935	20	0.8906655	100	0.878436	400	0.9061913	2000	0.9115405
13C12-2,3,7,8-TCDF	100	1.631571	100	1.588495	100	1.670669	100	1.492829	100	1.645068	100	1.692541
13C12-2,3,7,8-TCDD	100	1.103543	100	1.165686	100	1.103763	100	1.147762	100	1.181831	100	1.211872
13C12-1,2,3,7,8-PeCDF	100	1.373516	100	0.8861478	100	1.254697	100	1.157546	100	1.425701	100	1.345107
13C12-2,3,4,7,8-PeCDF	100	1.219579	100	0.8983995	100	1.113808	100	0.8611233	100	1.32733	100	1.286474
13C12-1,2,3,7,8-PeCDD	100	0.9177021	100	0.7002528	100	0.8365419	100	0.5962156	100	0.9821822	100	0.939983
13C12-1,2,3,4,7,8-HxCDF	100	1.152029	100	1.095885	100	1.513935	100	1.121285	100	1.094572	100	1.032122
13C12-1,2,3,6,7,8-HxCDF	100	1.353853	100	1.348693	100	1.689158	100	1.367383	100	1.37092	100	1.188788
13C12-2,3,4,6,7,8-HxCDF	100	1.092029	100	1.127896	100	1.240354	100	1.126074	100	1.087409	100	1.101774
13C12-1,2,3,7,8,9-HxCDF	100	0.8958406	100	0.9493947	100	0.9152119	100	0.9630403	100	0.8996667	100	0.9673701
13C12-1,2,3,4,7,8-HxCDD	100	0.9718531	100	0.9656819	100	1.113686	100	0.9864835	100	0.9766715	100	0.95586
13C12-1,2,3,6,7,8-HxCDD	100	1.184228	100	1.157253	100	1.278683	100	1.163318	100	1.111106	100	1.045546

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
13C12-1,2,3,4,6,7,8-HpCDF	100	0.7396157	100	0.9023055	100	1.063192	100	0.9589237	100	0.7622694	100	0.9449039
13C12-1,2,3,4,7,8,9-HpCDF	100	0.6488087	100	0.8119515	100	0.8176949	100	0.8667001	100	0.665459	100	0.8078955
13C12-1,2,3,4,6,7,8-HpCDD	100	0.724191	100	0.8737196	100	0.9555336	100	0.9094052	100	0.7229358	100	0.8549505
13C12-OCDD	200	0.701507	200	0.6312376	200	0.823691	200	0.8980531	200	0.7066522	200	0.8436876
37Cl4-2,3,7,8-TCDD	0.1	1.576039	0.5	1.320077	2	1.177166	10	1.132717	40	1.2366	200	1.284223
13C12-1,2,3,4-TCDD	100	1	100	1	100	1	100	1	100	1	100	1
13C12-1,2,3,7,8,9-HxCDD	100	1	100	1	100	1	100	1	100	1	100	1

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.7015272	2.1			RSD ()	
2,3,7,8-TCDD	1.148662	2.3			RSD ()	
1,2,3,7,8-PeCDF	0.67923	7.0			RSD ()	
2,3,4,7,8-PeCDF	0.7861704	2.6			RSD ()	
1,2,3,7,8-PeCDD	1.021845	4.5			RSD ()	
1,2,3,4,7,8-HxCDF	1.166038	2.4			RSD ()	
1,2,3,6,7,8-HxCDF	1.090741	4.5			RSD ()	
2,3,4,6,7,8-HxCDF	1.139699	5.0			RSD ()	
1,2,3,7,8,9-HxCDF	1.137093	2.8			RSD ()	
1,2,3,4,7,8-HxCDD	0.9955689	4.4			RSD ()	
1,2,3,6,7,8-HxCDD	1.000938	2.7			RSD ()	
1,2,3,7,8,9-HxCDD	0.9071139	6.0			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.002993	4.9			RSD ()	
1,2,3,4,7,8,9-HpCDF	0.9531152	5.8			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.039013	4.1			RSD ()	
OCDF	0.7778078	6.7			RSD ()	
OCDD	0.9199537	5.8			RSD ()	
13C12-2,3,7,8-TCDF	1.620196	4.4			RSD ()	
13C12-2,3,7,8-TCDD	1.152409	3.8			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.240452	15.9			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.117786	17.7			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.8288129	18.3			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.168305	14.9			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.386466	11.8			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.129256	5.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.9317541	3.4			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.9950393	5.9			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	1.156689	6.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	0.8952017	13.8			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.7697516	11.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.8401226	11.5			RSD ()	

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
13C12-OCDD	0.7674714	13.4			RSD ()	
37Cl4-2,3,7,8-TCDD	1.287804	12.2			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	

ANALYSIS SEQUENCE

SLC0045

Instrument: AUTOSPEC01 HRGCMS Column ID: K2310
Calibration ID: GC00015 Tune File: FEB0923_1-5
EM Voltage: 350 Resolution check times : 9:51, 18:18

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SLC0045-RES1	ISCW1	QC		2	L002084		03/03/2023 10:39	23030303	PK	
SLC0045-CAL1	CSLCW	QC		3	I005460		03/03/2023 11:28	23030304	PK	
SLC0045-CAL2	CS1CW	QC		4	I005456		03/03/2023 12:23	23030305	PK	
SLC0045-CAL3	CS2CW	QC		5	I005457		03/03/2023 13:16	23030306	PK	
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SLC0045-CAL5	CS4CW	QC		7	I005458		03/03/2023 14:59	23030308	PK	
SLC0045-CAL6	CS5CW	QC		8	I005459		03/03/2023 15:47	23030309	PK	
SLC0045-SCV1	ICVCW	QC		9	H008219		03/03/2023 16:36	23030310	PK	
SLC0045-CCV1	CS3V4	QC		10	K009821		03/03/2023 17:25	23030311	PK	
SLC0045-RES2	ISCV4	QC		11	L002084		03/03/2023 18:18	23030312	PK	

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Printed: Monday, March 06, 2023 10:58:44 Pacific Standard Time

3/6/23 PK

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Process Integrate		
Process Calibrate		
Process Quantify		
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Peak modified	Sample:23030305, Compound:TF, RT:25.774	2
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Peak deleted	Sample:23030309, Compound:PF, RT:32.307	6
Peak deleted	Sample:23030309, Compound:HF, RT:33.220	6
Peak deleted	Sample:23030309, Compound:TD, RT:27.017	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.995	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.917	6
Peak deleted	Sample:23030308, Compound:HD, RT:34.000	5
Peak deleted	Sample:23030308, Compound:HPD, RT:39.225	5
Peak deleted	Sample:23030309, Compound:HPD, RT:39.214	6
Pre modification peak	Sample:23030305, Compound:OF, RT:45.237	2
Peak modified	Sample:23030305, Compound:OF, RT:45.237	2
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Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time
Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	4.469e4	5.839e4	0.702	0.765	0.770	894	1638	6.87e5	9.09e5	769.3	554.8	NO	bb	bb	9.550
12378-PeCDF	29.956	1.001	2.355e5	1.540e5	0.679	1.529	1.550	2187	1572	3.61e6	2.40e6	1652.4	1526.9	NO	bb	bb	49.641
23478-PeCDF	31.293	1.001	2.214e5	1.482e5	0.786	1.494	1.550	2187	1572	3.41e6	2.30e6	1560.8	1464.8	NO	bb	bb	47.528
123478-HxCDF	34.914	1.001	2.600e5	2.102e5	1.166	1.237	1.240	1592	1910	4.13e6	3.31e6	2594.2	1730.9	NO	bd	bd	47.118
234678-HxCDF	35.917	1.001	2.733e5	2.175e5	1.140	1.257	1.240	1592	1910	4.33e6	3.47e6	2719.2	1818.9	NO	bb	bb	49.341
123678-HxCDF	35.048	1.000	2.727e5	2.151e5	1.091	1.268	1.240	1592	1910	4.23e6	3.33e6	2659.9	1743.3	NO	db	db	49.569
123789-HxCDF	36.941	1.000	2.420e5	1.912e5	1.137	1.266	1.240	1592	1910	3.95e6	3.13e6	2482.2	1637.3	NO	bb	bb	46.959
1234678-HpCDF	38.780	1.000	1.767e5	1.776e5	1.003	0.995	1.050	1849	2300	2.99e6	3.02e6	1618.0	1311.0	NO	bb	bb	47.490
1234789-HpCDF	41.019	1.000	1.595e5	1.575e5	0.953	1.013	1.050	1849	2300	2.36e6	2.33e6	1274.2	1012.6	NO	bb	bb	50.221
OCDF	45.246	1.005	2.326e5	2.612e5	0.778	0.891	0.890	910	1225	2.82e6	3.14e6	3100.2	2559.9	NO	bb	bb	88.591
2378-TCDD	26.438	1.001	5.709e4	7.150e4	1.149	0.798	0.770	1506	757	9.09e5	1.12e6	603.1	1485.0	NO	bb	bb	9.450
12378-PeCDD	31.549	1.001	2.156e5	1.424e5	1.022	1.514	1.550	2044	1419	3.32e6	2.17e6	1626.0	1530.4	NO	bb	bb	49.654
123478-HxCDD	36.028	1.000	2.225e5	1.815e5	0.996	1.226	1.240	1845	1377	3.65e6	2.93e6	1979.4	2130.4	NO	bd	bd	50.053
123678-HxCDD	36.150	1.000	2.361e5	1.995e5	1.001	1.184	1.240	1845	1377	3.83e6	3.15e6	2076.5	2285.7	NO	db	db	49.648
123789-HxCDD	36.529	1.011	2.267e5	1.883e5	0.907	1.204	1.240	1845	1377	3.65e6	3.02e6	1979.8	2191.3	NO	bb	bb	54.229
1234678-HpCDD	40.284	1.001	1.918e5	1.891e5	1.039	1.015	1.050	2026	1655	2.99e6	2.92e6	1477.4	1764.9	NO	bb	bb	47.619
OCDD	45.008	1.000	3.015e5	3.475e5	0.920	0.868	0.890	1418	1100	3.70e6	4.29e6	2606.9	3904.9	NO	bb	bb	98.432
13C-2378-TCDF	25.774	1.007	6.611e5	8.775e5	1.620	0.753	0.770	2458	1918	1.00e7	1.34e7	4080.0	6997.2	NO	bb	bb	94.015
13C-12378-PeCDF	29.934	1.169	6.937e5	4.618e5	1.240	1.502	1.550	2176	1857	1.07e7	7.10e6	4925.2	3826.5	NO	bb	bb	92.213
13C-23478-PeCDF	31.271	1.221	5.928e5	3.963e5	1.118	1.496	1.550	2176	1857	9.20e6	6.25e6	4229.1	3368.5	NO	bb	bb	87.601
13C-123478-HxCDF	34.891	0.955	2.871e5	5.687e5	1.168	0.505	0.510	1657	1593	4.56e6	9.04e6	2750.7	5674.1	NO	bd	bd	84.013
13C-123678-HxCDF	35.036	0.959	3.069e5	5.954e5	1.386	0.515	0.510	1657	1593	4.75e6	9.14e6	2868.0	5738.5	NO	db	db	74.642
13C-234678-HxCDF	35.894	0.983	2.954e5	5.775e5	1.129	0.512	0.510	1657	1593	4.85e6	9.48e6	2926.1	5951.0	NO	bb	bb	88.651
13C-123789-HxCDF	36.930	1.011	2.724e5	5.390e5	0.932	0.505	0.510	1657	1593	4.39e6	8.57e6	2648.2	5379.8	NO	bb	bb	99.871
13C-1234678-HpCDF	38.769	1.062	2.262e5	5.177e5	0.895	0.437	0.440	2036	2545	3.83e6	8.70e6	1881.8	3416.5	NO	bb	bb	95.295
13C-1234789-HpCDF	41.008	1.123	1.995e5	4.627e5	0.770	0.431	0.440	2036	2545	2.95e6	6.70e6	1450.8	2632.3	NO	bb	bb	98.667
13C-1234-TCDD	25.605	0.000	4.500e5	5.601e5	1.000	0.803	0.770	1910	1117	7.08e6	8.81e6	3705.2	7891.1	NO	bb	bb	100.000
13C-2378-TCDD	26.424	1.032	5.241e5	6.605e5	1.152	0.794	0.770	1910	1117	7.92e6	9.96e6	4144.8	8917.7	NO	bb	bb	101.762
13C-12378-PeCDD	31.527	1.231	4.348e5	2.708e5	0.829	1.606	1.550	951	872	6.72e6	4.16e6	7062.4	4771.1	NO	bb	bb	84.283
13C-123478-HxCDD	36.017	0.986	4.575e5	3.533e5	0.995	1.295	1.240	1714	1036	7.67e6	5.90e6	4475.1	5696.2	NO	bd	bd	93.458
13C-123678-HxCDD	36.139	0.990	4.929e5	3.835e5	1.157	1.285	1.240	1714	1036	7.72e6	6.07e6	4504.9	5859.4	NO	db	db	86.905
13C-1234678-HpCDD	40.262	1.103	3.870e5	3.828e5	0.840	1.011	1.050	1736	1260	5.92e6	5.62e6	3411.3	4462.2	NO	bb	bb	105.085
13C-OCDD	44.999	1.232	6.781e5	7.554e5	0.767	0.898	0.890	1440	1232	8.22e6	9.13e6	5710.3	7413.0	NO	bb	bb	214.218
13C-123789-HxCDD	36.518	0.000	4.889e5	3.830e5	1.000	1.277	1.240	1714	1036	7.91e6	6.13e6	4618.2	5918.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.438	1.033	1.177e5		1.288			2053		1.80e6		877.6			bb		9.046

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Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time
Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.285	0.865	4.825e4	6.619e4	0.802	0.729	0.770	894	1638	7.69e5	1.08e6	860.8	657.5	NO	bb	bb	9.280
1289-TCDF	27.286	1.059	4.233e4	5.922e4	0.678	0.715	0.770	894	1638	6.48e5	8.96e5	725.0	547.0	NO	db	db	9.735
13468-PECDF	27.145	0.907	4.529e5	2.964e5	1.246	1.528	1.550	639	866	7.07e6	4.64e6	11052.6	5356.5	NO	bb	bb	52.031
12389-PECDF	32.329	1.080	1.727e5	1.137e5	0.496	1.519	1.550	2187	1572	2.66e6	1.70e6	1217.2	1080.5	NO	bb	bb	49.938
123468-HXCDF	33.243	0.953	2.450e5	1.964e5	1.169	1.248	1.240	1592	1910	3.71e6	2.99e6	2333.1	1567.3	NO	bb	bb	44.113
1368-TCDD	23.571	0.892	5.082e4	6.674e4	1.015	0.761	0.770	1506	757	8.30e5	1.09e6	551.2	1438.0	NO	bb	bb	9.774
1289-TCDD	27.031	1.023	4.817e4	6.482e4	0.909	0.743	0.770	1506	757	7.39e5	9.76e5	490.7	1289.2	NO	bb	bb	10.496
12479-PECDD	28.831	0.914	4.117e5	2.743e5	2.301	1.501	1.550	2044	1419	3.99e6	2.64e6	1950.7	1862.6	NO	bb	bb	42.238
12389-PECDD	31.939	1.013	2.280e5	1.502e5	1.184	1.518	1.550	2044	1419	3.50e6	2.32e6	1711.4	1633.6	NO	bb	bb	45.288
124679-HXCDD	34.022	0.945	2.111e5	1.738e5	1.115	1.214	1.240	1845	1377	3.36e6	2.72e6	1819.4	1971.8	NO	bb	bb	42.563
1234679-HPCDD	39.236	0.975	2.063e5	2.043e5	1.137	1.010	1.050	2026	1655	3.38e6	3.38e6	1668.0	2041.4	NO	bb	bb	46.924
Total-tetrafurans			1.368e5		0.727			894		2.13e6							28.888
Total-penta1			4.529e5					639		7.07e6							52.031
Total-pentafurans			6.685e5		0.654			2187		1.03e7							156.333
Total-hexafurans			1.293e6		1.141			1592		2.04e7							237.100
Total-heptafurans			3.381e5		0.978			1849		5.38e6							98.217
Total-Furans			3.122e6		0.922			894		4.80e7							661.160
Total-tetradioxins			2.626e5		1.024			1506		3.74e6							49.711
Total-pentadioxins			8.563e5		1.502			2044		1.08e7							137.339
Total-hexadioxins			8.975e5		1.005			1845		1.45e7							196.701
Total-heptadioxins			3.982e5		1.088			2026		6.38e6							94.566
Total-Dioxins			2.716e6		1.130			1506		3.92e7							576.750
Total-TEQ			5.838e6					1506		8.72e7							1237.909
FUNCTION1 PFK			0.000e0					705807		0.00e0							
FUNCTION2 PFK			1.098e6					272509		2.65e6							0.000
FUNCTION3 PFK			8.030e5					419872		3.44e6							0.000
FUNCTION4 PFK			2.346e5					346452		6.90e6							
FUNCTION5 PFK			5.429e4					176842		2.44e6							
FUNCTION1 HXCD...			8.708e2					511		1.38e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.374e3					1181		2.70e4							0.000
FUNCTION3 OCDPE			4.232e2					570		6.10e3							0.000
FUNCTION4 NCDPE			7.938e2					683		4.57e3							0.000
FUNCTION5 DCDPE			0.000e0					526		0.00e0							

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
2	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
3	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
4	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
2	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
3	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
4	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
5	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
2	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
3	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
4	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
5	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280
7	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
8	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
9	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
10	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528
11	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
12	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
13	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
14	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
15	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113
16	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
17	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
18	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
19	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
20	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490
21	OCDF	45.25	2.326e5	2.612e5	0.778	0.89	0.89	3100.2	YES	NO	bb	bb	88.591
22	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
2	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
3	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
4	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
5	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
2	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
3	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
4	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
2	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
3	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
4	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
5	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924
2	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
3	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
2	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
3	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
4	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
5	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660
6	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
7	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
8	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
9	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238
10	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
11	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
12	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
13	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
14	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563
15	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924
16	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
17	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619
18	OCDD	45.01	3.015e5	3.475e5	0.920	0.87	0.89	2606.9	YES	NO	bb	bb	98.432

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280
7	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
8	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
9	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
10	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528
11	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
12	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
13	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
14	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
15	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113
16	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
17	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
18	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
19	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
20	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490
21	OCDF	45.25	2.326e5	2.612e5	0.778	0.89	0.89	3100.2	YES	NO	bb	bb	88.591
22	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031
23	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
24	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
25	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
26	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
27	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660
28	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
29	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
30	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
31	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238
32	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
33	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
34	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
35	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
36	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563
37	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
39	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619
40	OCDD	45.01	3.015e5	3.475e5	0.920	0.87	0.89	2606.9	YES	NO	bb	bb	98.432

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.96	1.058e5					1.1	NO		bb		0.000
2	FUNCTION2 PFK	30.15	5.471e5					3.7	YES		bb		0.000
3	FUNCTION2 PFK	28.28	4.455e5					4.9	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.89	2.667e5					4.7	YES		bb		0.000
2	FUNCTION3 PFK	33.03	5.362e5					3.5	YES		bb		0.000

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	4.905e4					2.0	NO		db		
2	FUNCTION4 PFK	37.96	1.071e4					1.3	NO		bd		
3	FUNCTION4 PFK	37.89	4.848e3					0.7	NO		bb		
4	FUNCTION4 PFK	42.18	1.359e4					1.2	NO		bb		
5	FUNCTION4 PFK	41.91	8.056e3					0.9	NO		db		
6	FUNCTION4 PFK	41.83	2.292e4					1.6	NO		bd		
7	FUNCTION4 PFK	41.77	1.673e4					1.5	NO		bb		
8	FUNCTION4 PFK	41.48	1.418e4					1.4	NO		bb		
9	FUNCTION4 PFK	41.32	2.104e3					0.5	NO		bb		
10	FUNCTION4 PFK	41.13	8.695e3					1.0	NO		bb		
11	FUNCTION4 PFK	40.63	8.163e3					0.8	NO		bb		
12	FUNCTION4 PFK	40.08	1.008e4					1.1	NO		db		
13	FUNCTION4 PFK	40.04	1.572e4					1.4	NO		bd		
14	FUNCTION4 PFK	39.51	7.181e3					1.0	NO		bb		
15	FUNCTION4 PFK	39.44	5.021e3					0.7	NO		bb		
16	FUNCTION4 PFK	38.96	9.511e3					1.3	NO		db		
17	FUNCTION4 PFK	38.92	2.806e4					1.5	NO		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.57	1.411e3					0.9	NO		bb		
2	FUNCTION5 PFK	45.95	2.307e4					3.9	YES		bb		
3	FUNCTION5 PFK	45.69	1.018e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.54	1.146e3					0.7	NO		bb		
5	FUNCTION5 PFK	45.12	9.805e3					2.3	NO		bb		
6	FUNCTION5 PFK	44.83	5.276e3					1.3	NO		bb		
7	FUNCTION5 PFK	44.58	5.554e3					1.4	NO		bb		
8	FUNCTION5 PFK	44.38	2.760e3					0.9	NO		db		
9	FUNCTION5 PFK	44.35	3.252e3					1.1	NO		bd		
10	FUNCTION5 PFK	42.99	9.959e2					0.6	NO		bb		

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.01	7.970e1					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	23.47	8.919e1					3.0	YES		db		0.000
3	FUNCTION1 HXCD...	23.40	8.065e1					2.9	NO		dd		0.000
4	FUNCTION1 HXCD...	23.32	1.305e2					3.4	YES		dd		0.000
5	FUNCTION1 HXCD...	23.22	1.146e2					2.8	NO		bd		0.000
6	FUNCTION1 HXCD...	22.41	7.936e1					4.3	YES		bb		0.000
7	FUNCTION1 HXCD...	27.40	7.698e1					2.2	NO		bb		0.000
8	FUNCTION1 HXCD...	27.14	1.376e2					3.3	YES		bb		0.000
9	FUNCTION1 HXCD...	25.79	8.222e1					1.9	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.53	2.999e2					2.9	NO		bb		0.000
2	FUNCTION2 HPCD...	31.17	3.219e2					4.5	YES		bb		0.000
3	FUNCTION2 HPCD...	29.58	8.369e1					1.2	NO		db		0.000
4	FUNCTION2 HPCD...	29.50	8.185e1					1.4	NO		bd		0.000
5	FUNCTION2 HPCD...	29.43	9.066e1					2.2	NO		bb		0.000
6	FUNCTION2 HPCD...	28.26	1.049e2					2.5	NO		db		0.000
7	FUNCTION2 HPCD...	28.22	1.658e2					2.8	NO		bd		0.000
8	FUNCTION2 HPCD...	28.15	1.360e2					3.3	YES		db		0.000
9	FUNCTION2 HPCD...	28.11	8.921e1					2.1	NO		bd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.53	2.562e2					6.2	YES		bb		0.000
2	FUNCTION3 OCDPE	36.14	1.671e2					4.5	YES		bb		0.000

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	8.282e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	38.07	5.777e2					4.3	YES		bb		0.000
3	FUNCTION4 NCDPE	37.82	1.333e2					0.0	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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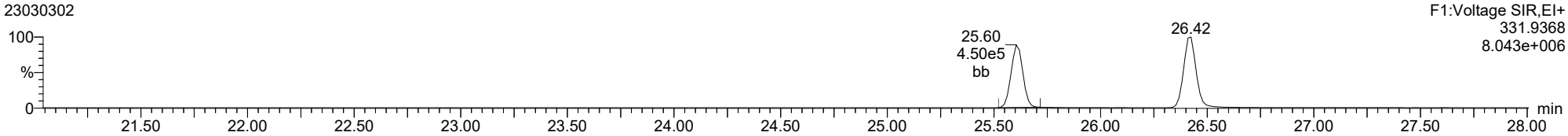
ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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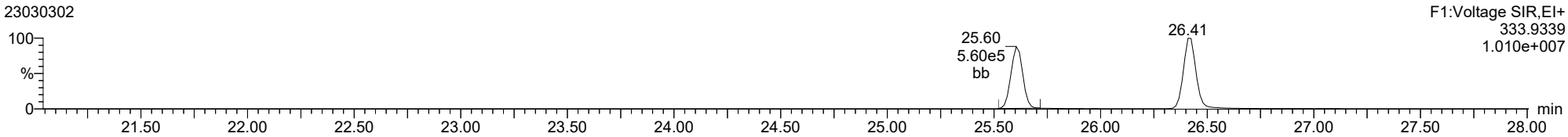
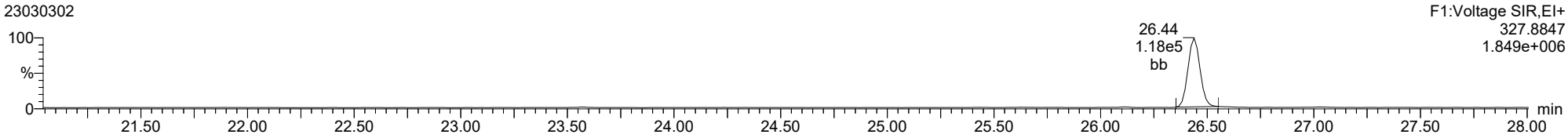


37CL-2378-TCDD



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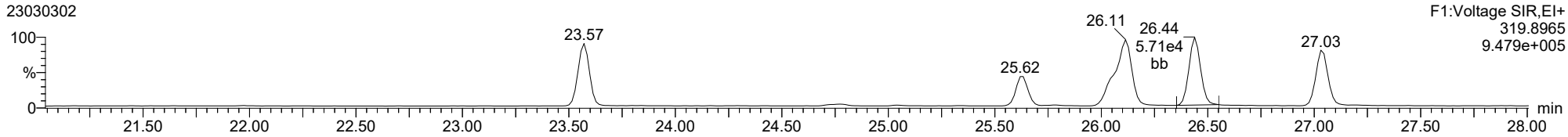
2378-TCDD



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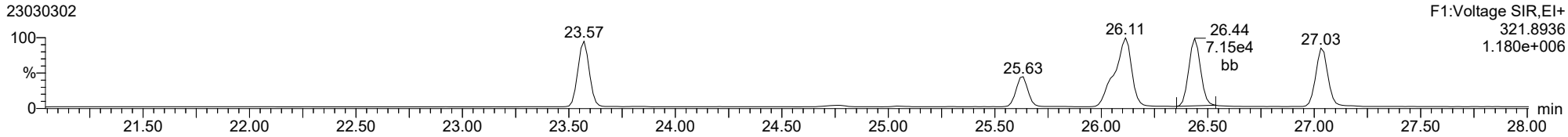

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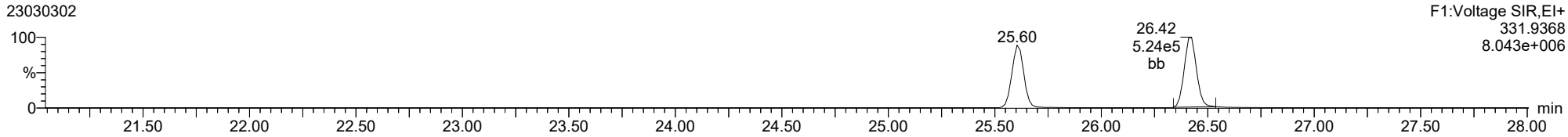

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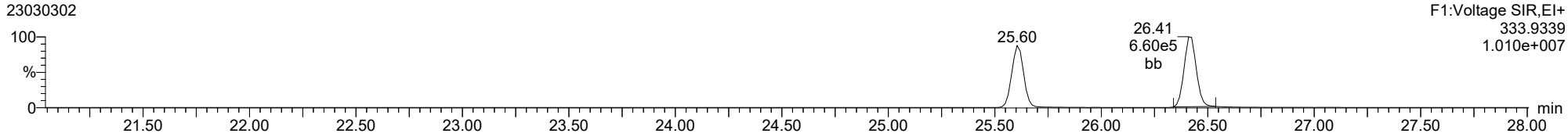
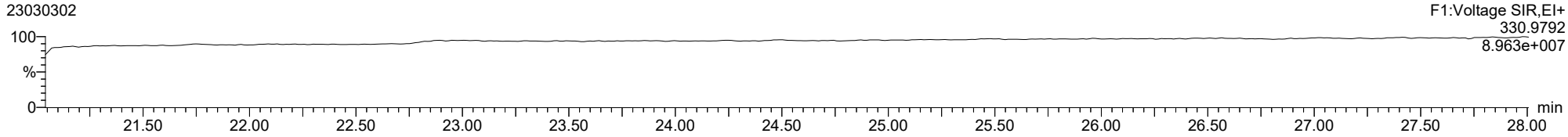
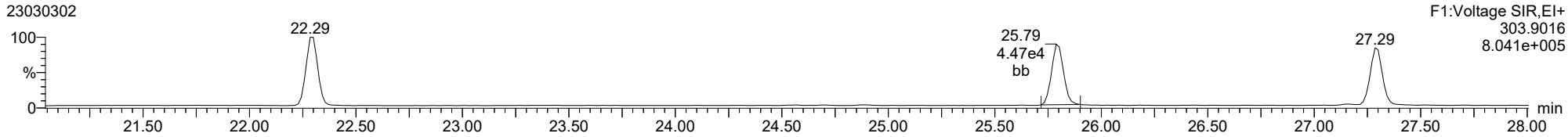


FUNCTION1 PFK

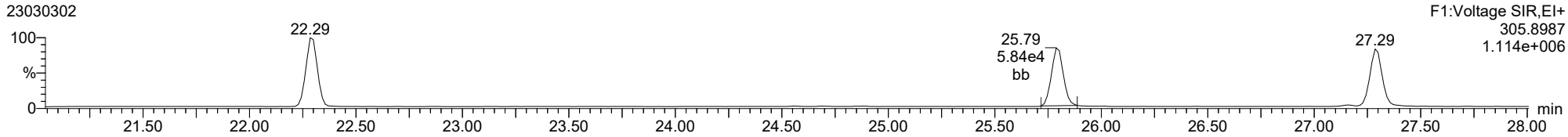


ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

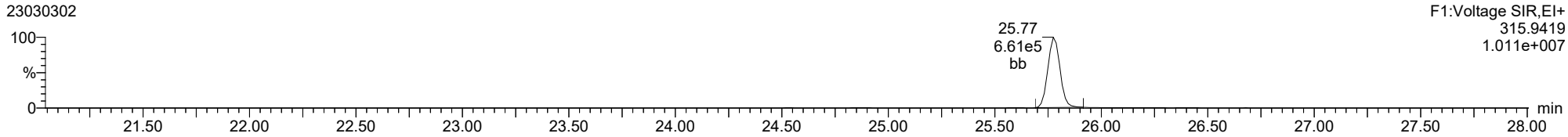
2378-TCDF



2378-TCDF



13C-2378-TCDF



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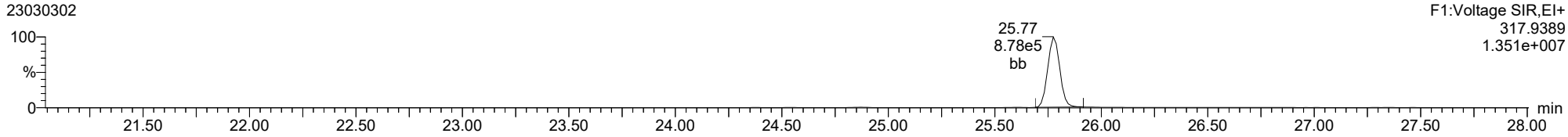

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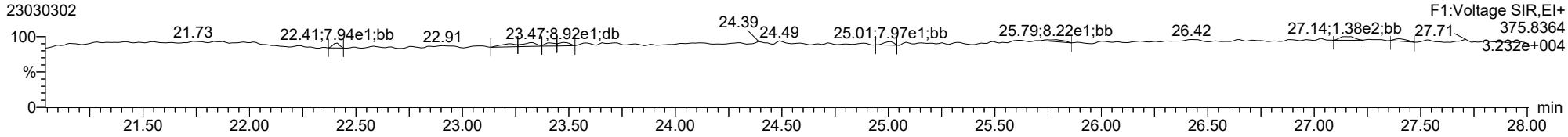

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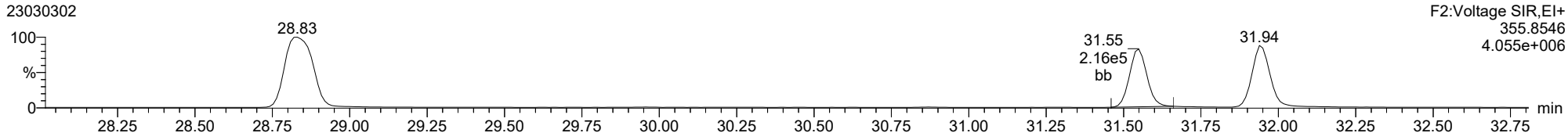
12378-PeCDD



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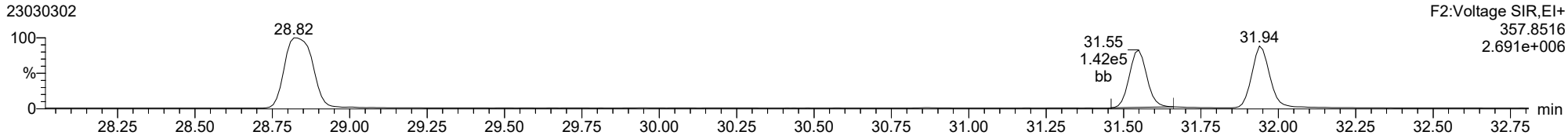

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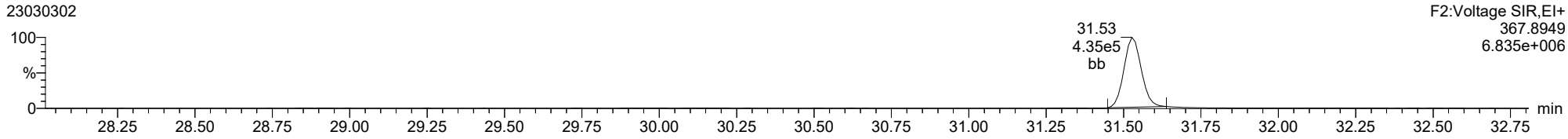

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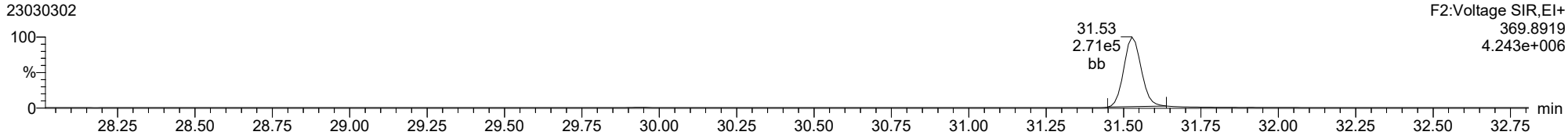

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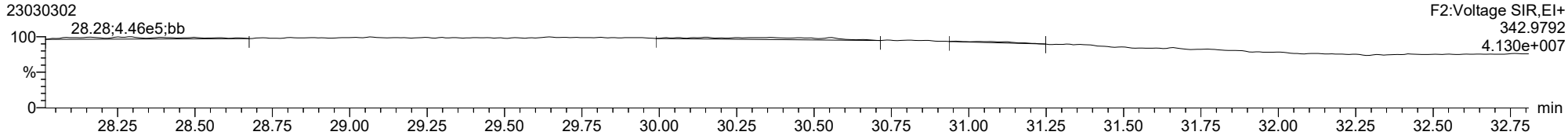

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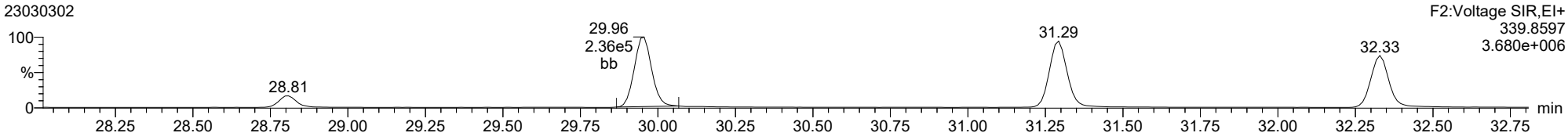
12378-PeCDF



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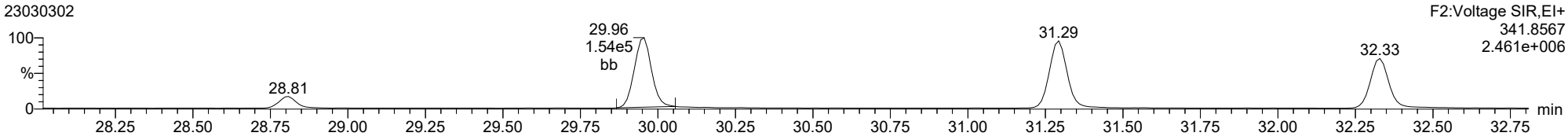

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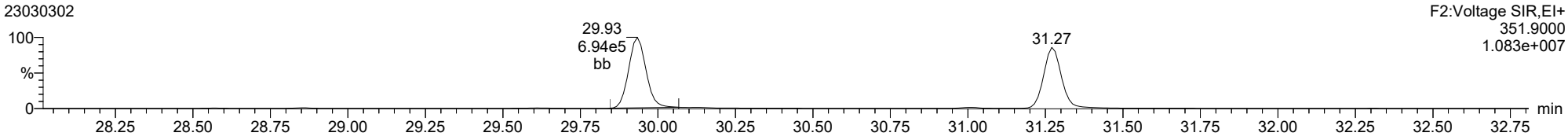

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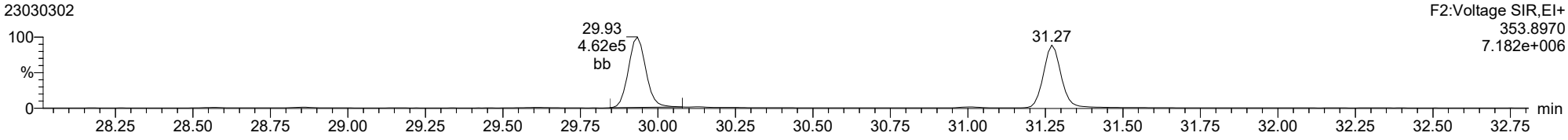
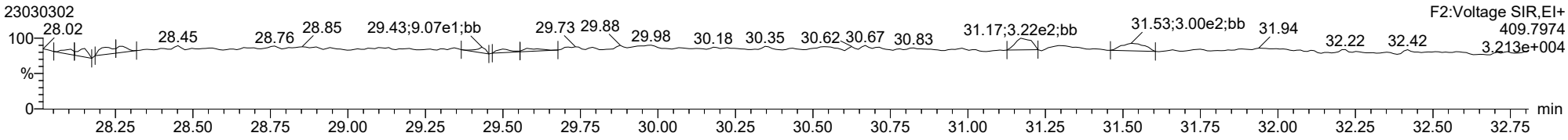


FUNCTION2 HPCDPE



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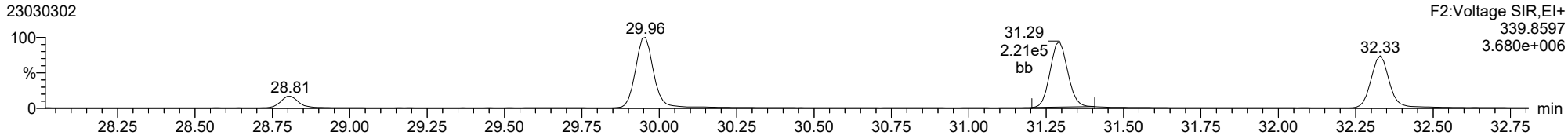
23478-PeCDF



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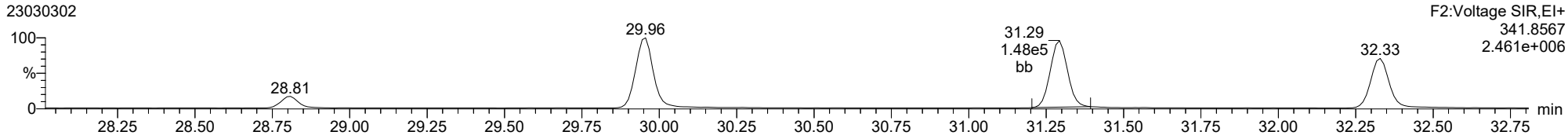

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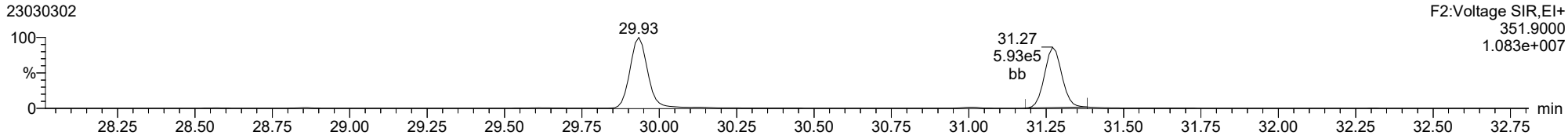

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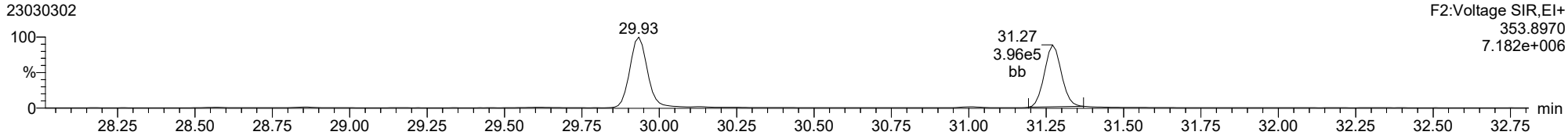

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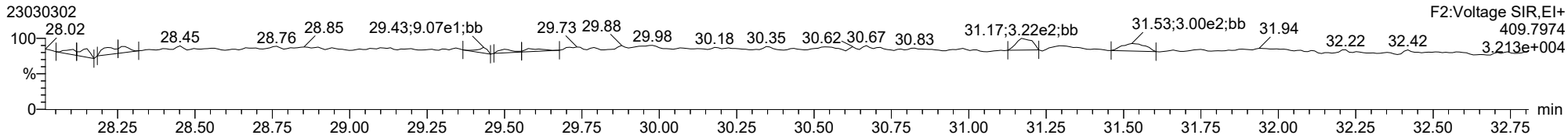

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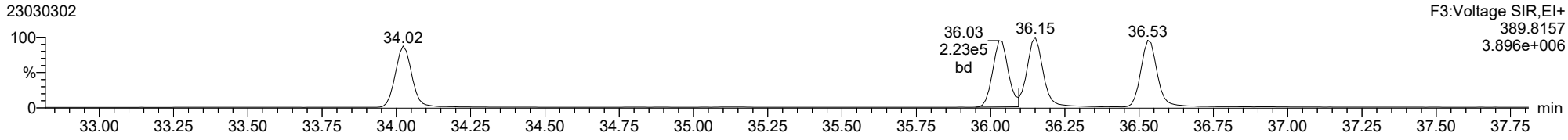
123478-HxCDD



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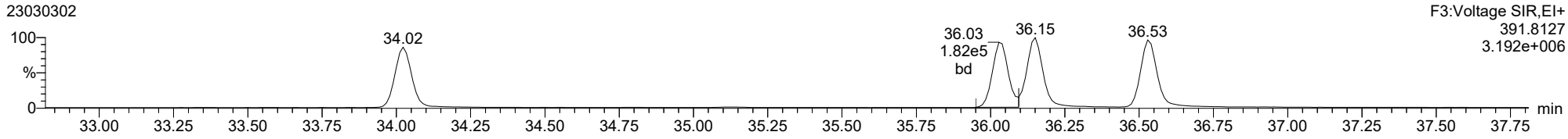

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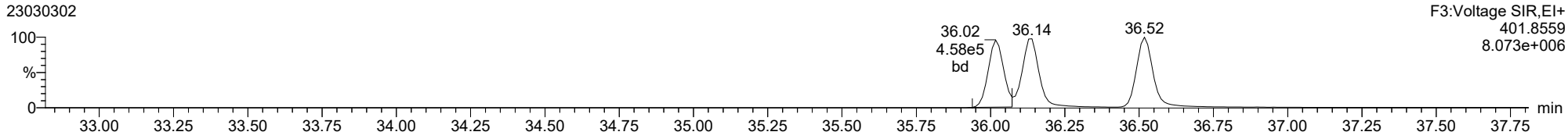

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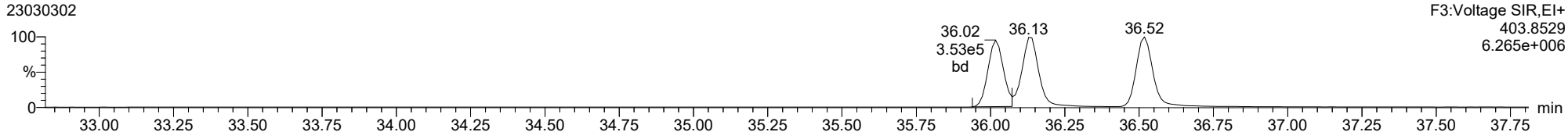
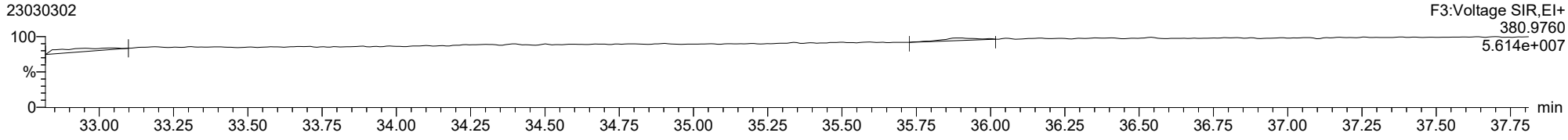


FUNCTION3 PFK



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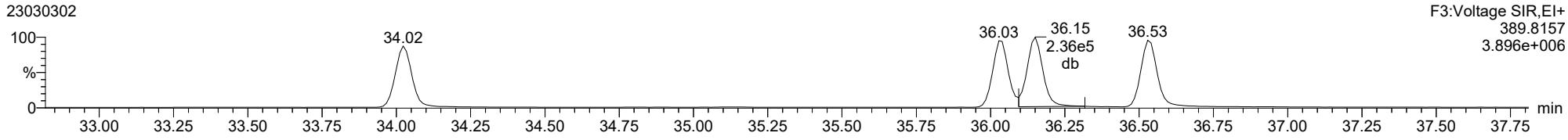

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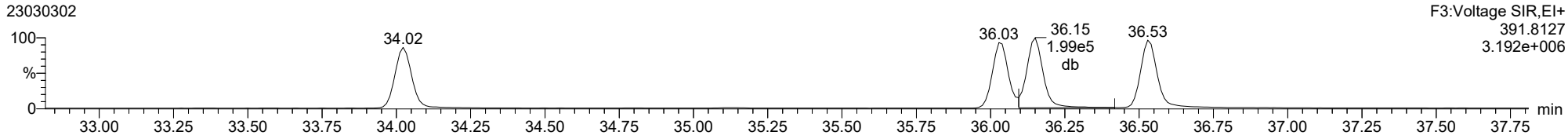

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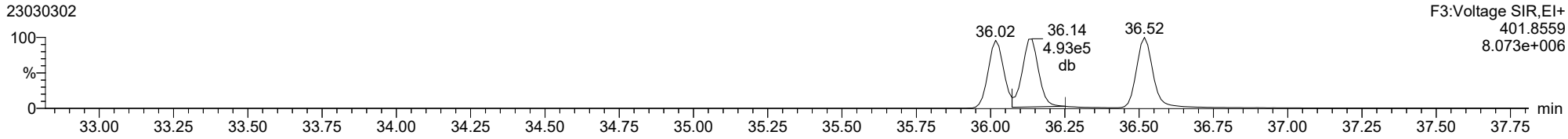

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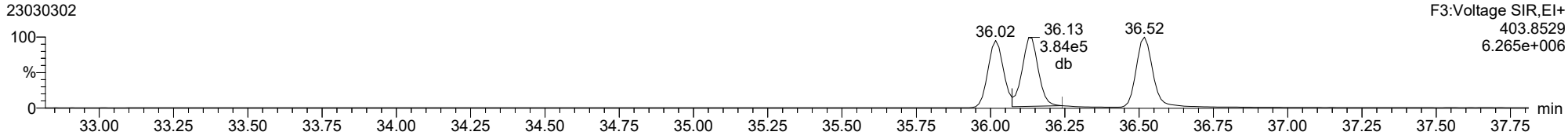

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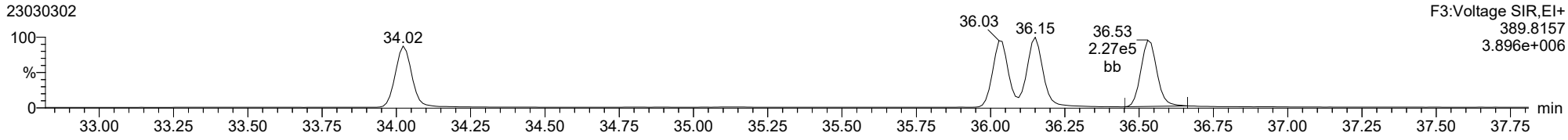

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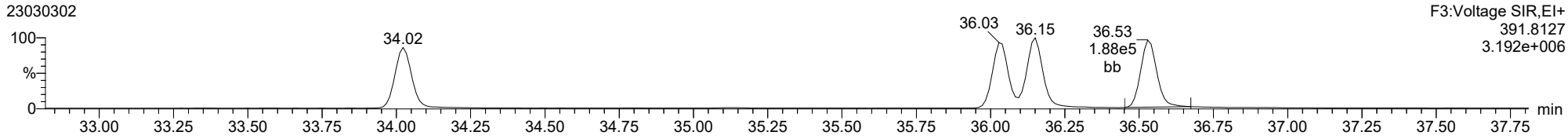

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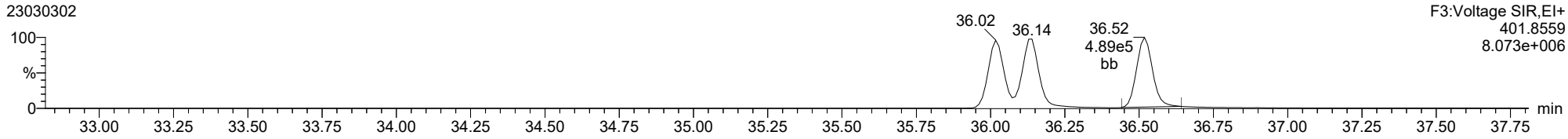

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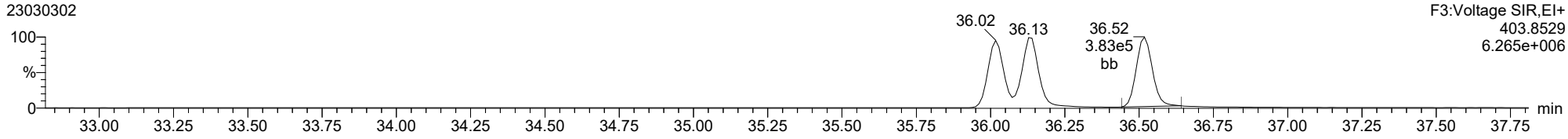

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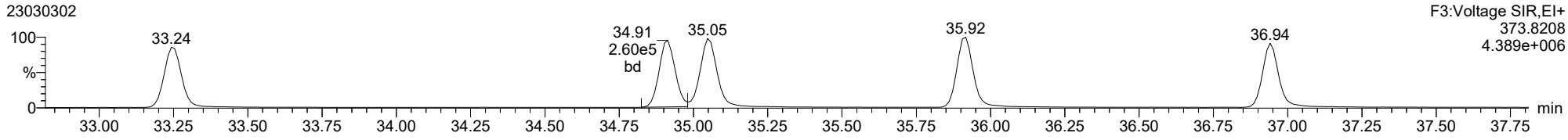

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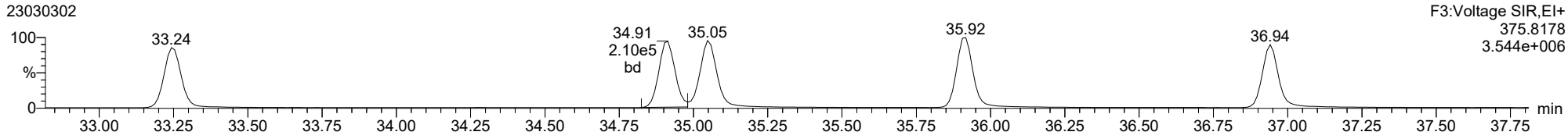

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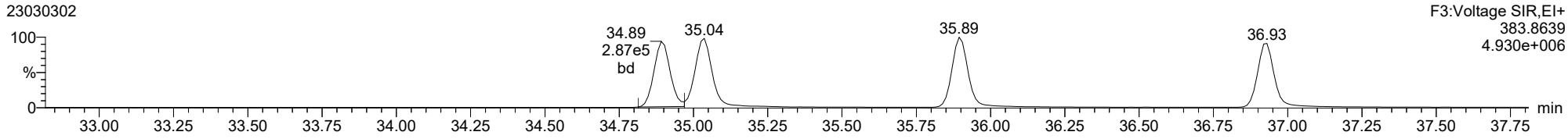

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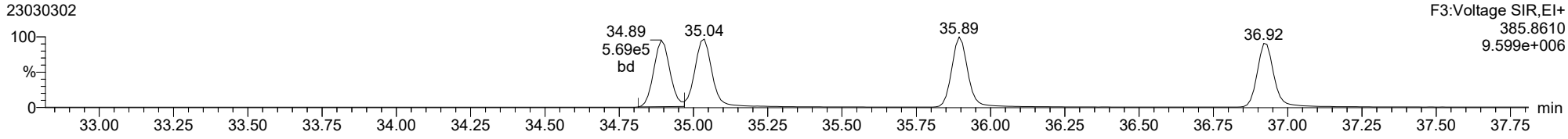

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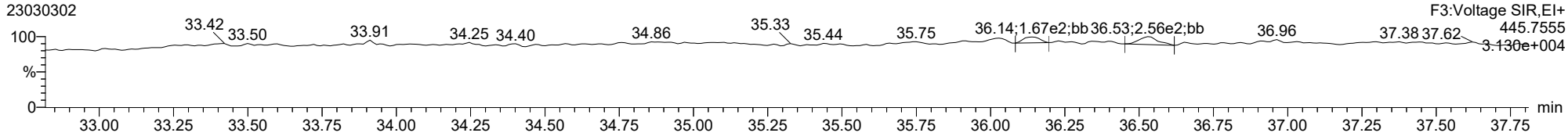

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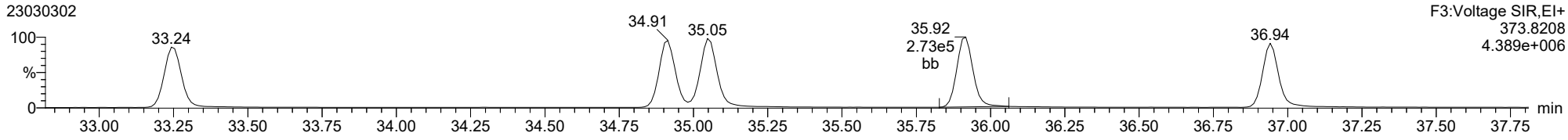
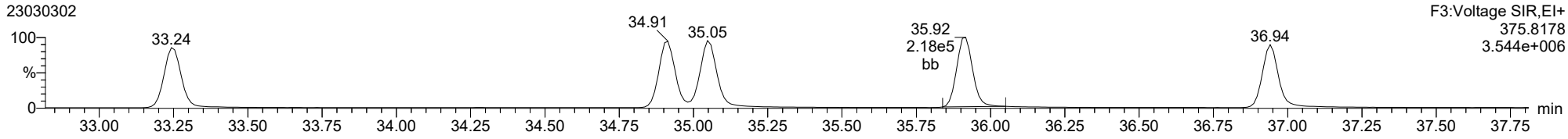
234678-HxCDF



234678-HxCDF



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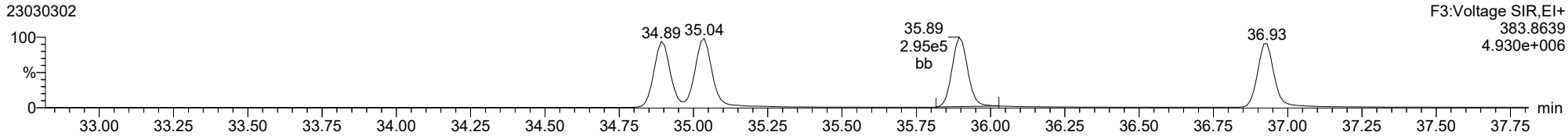

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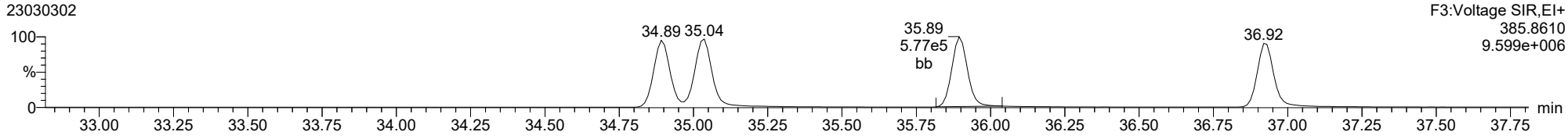
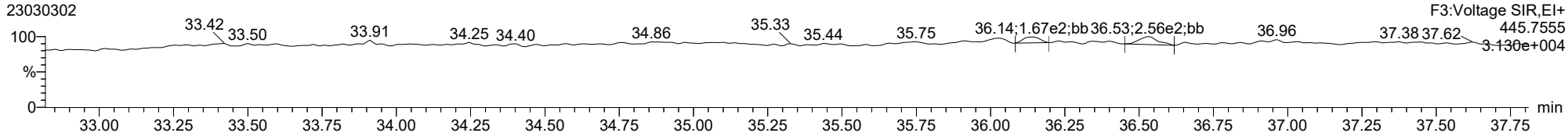


FUNCTION3 OCDPE



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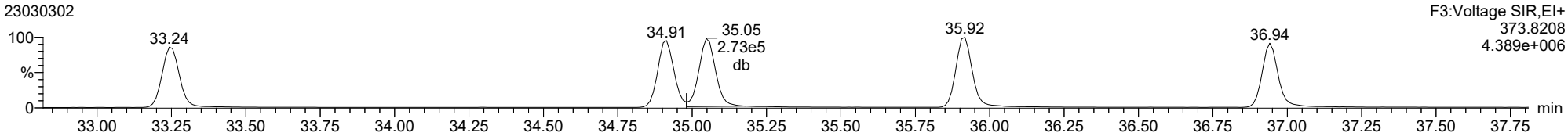

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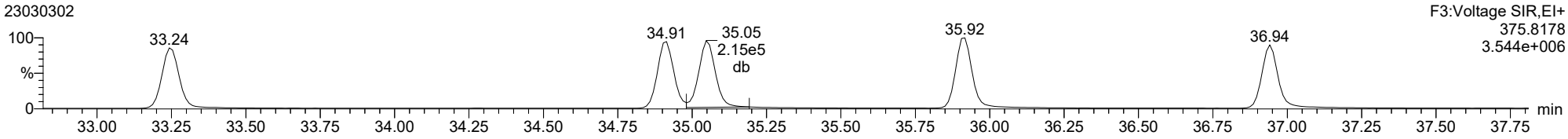

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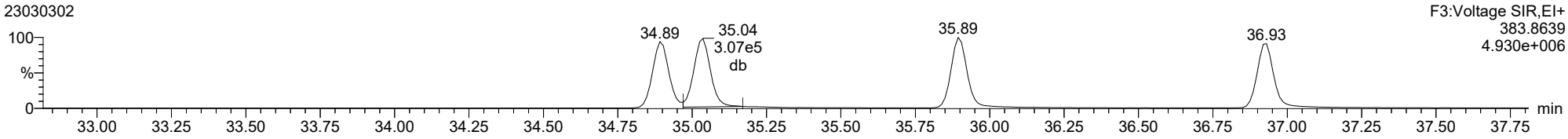

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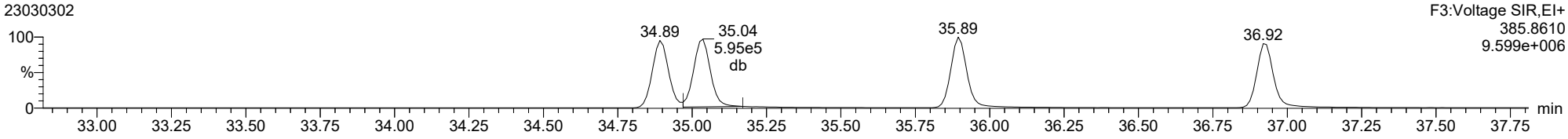
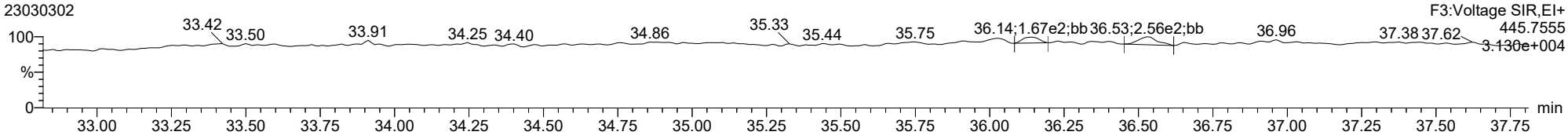


FUNCTION3 OCDPE



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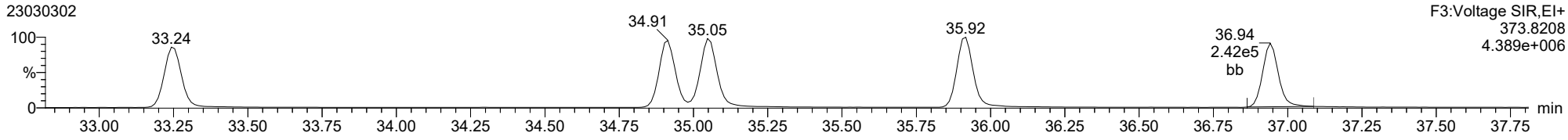

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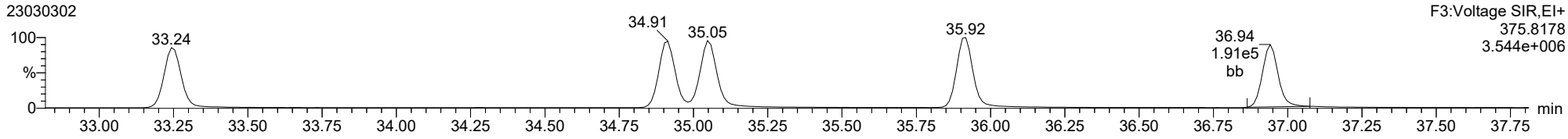

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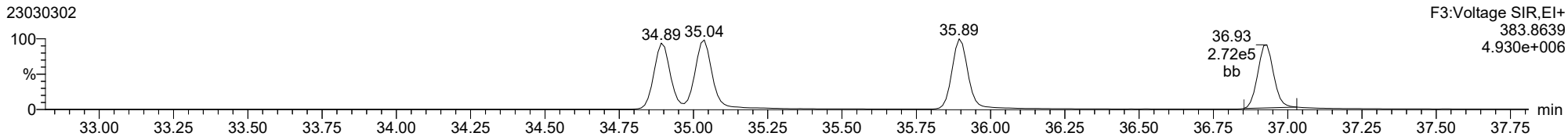

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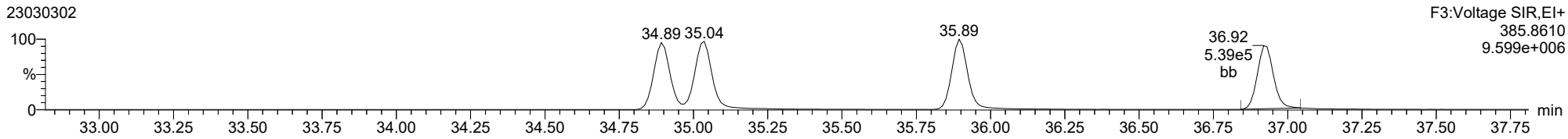

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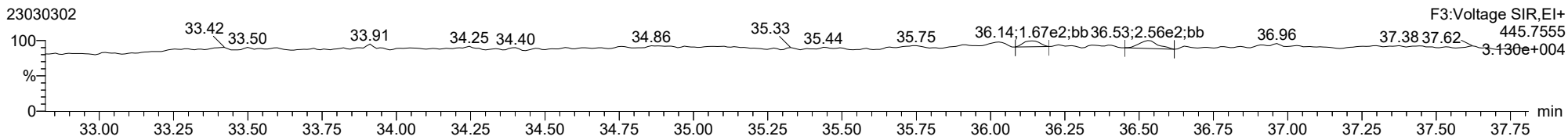

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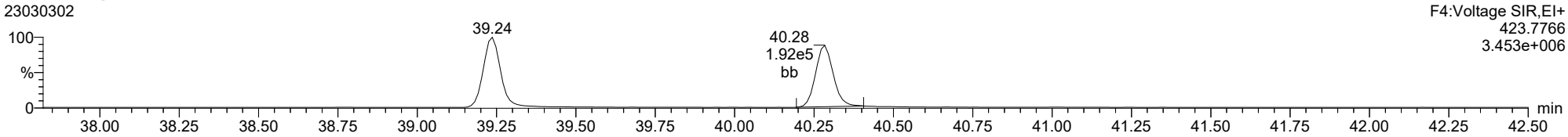

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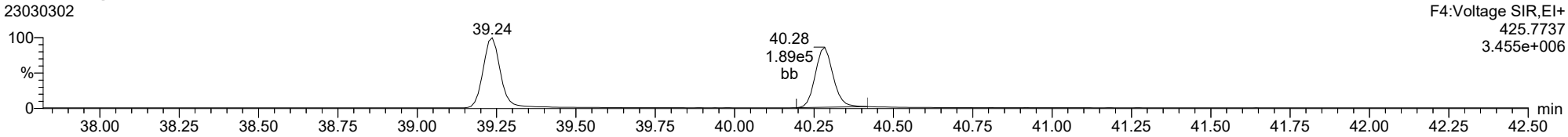

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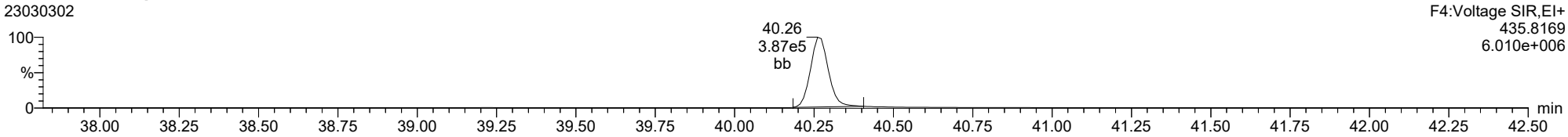

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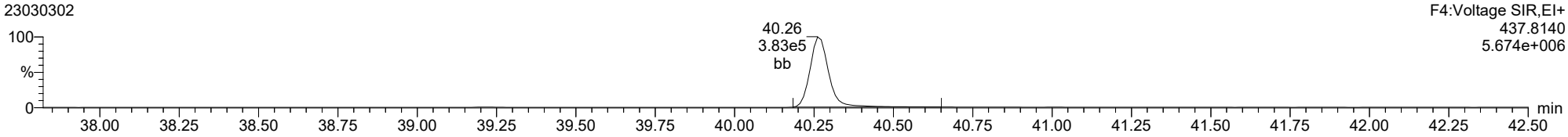

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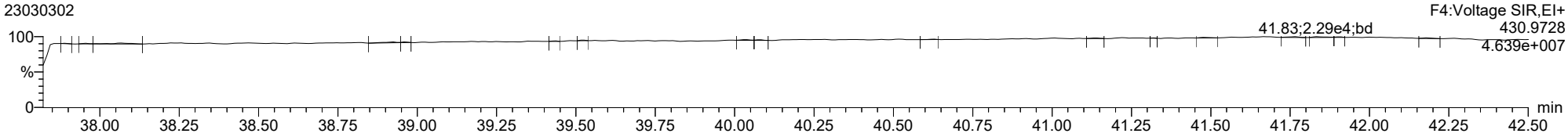

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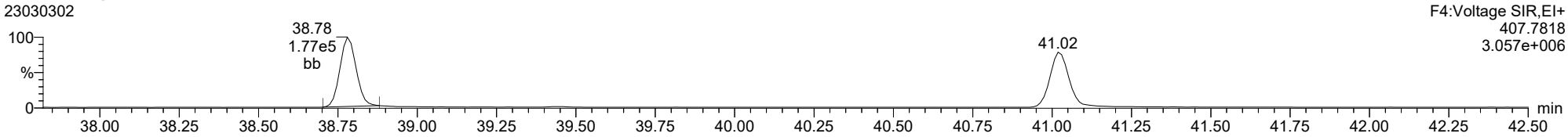

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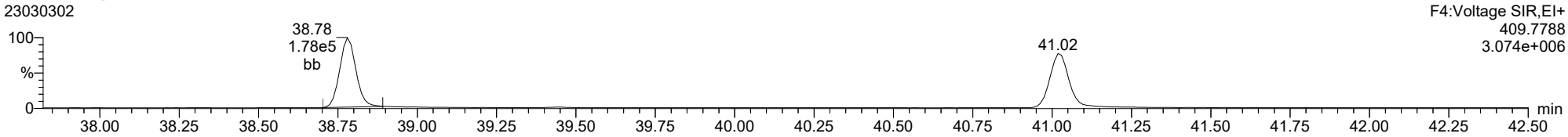

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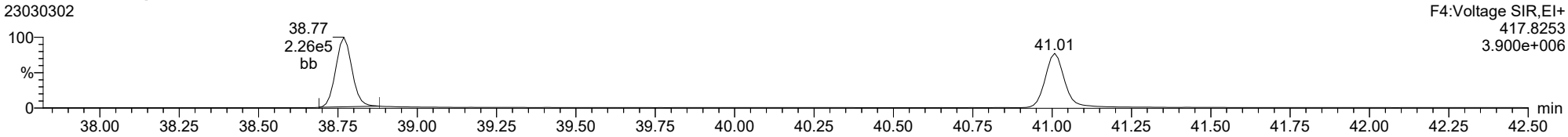

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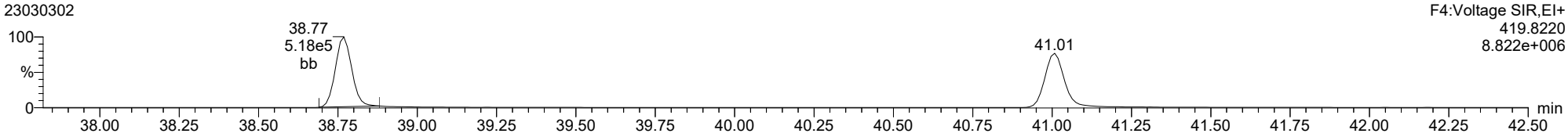

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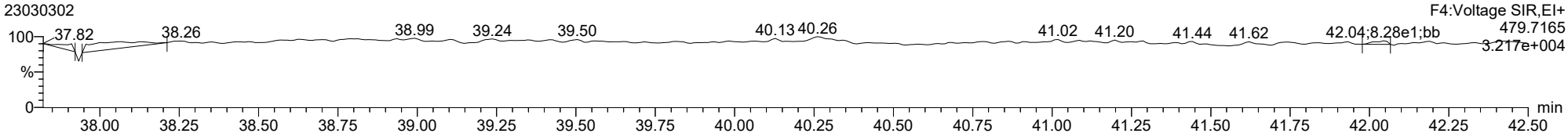

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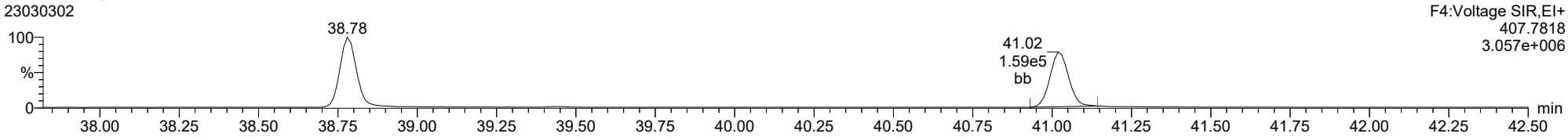

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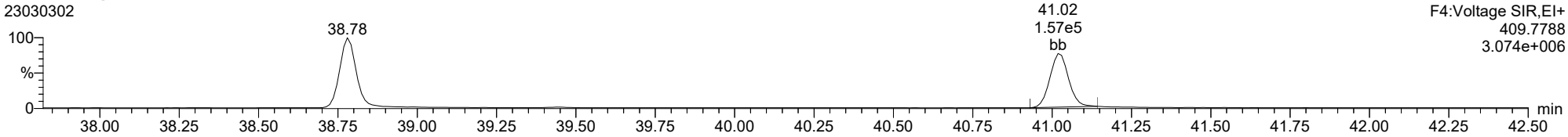

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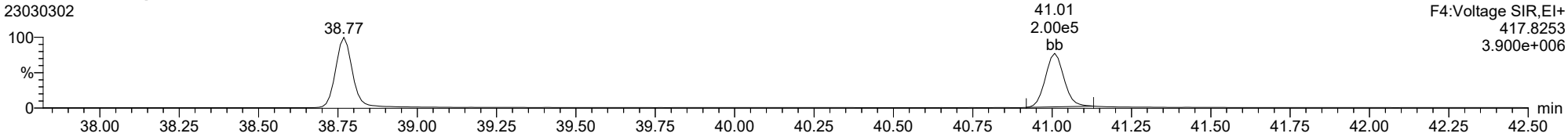

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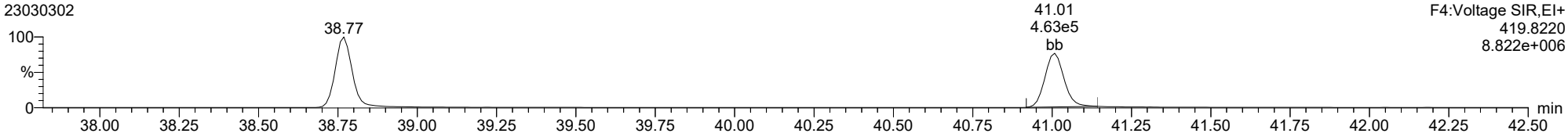

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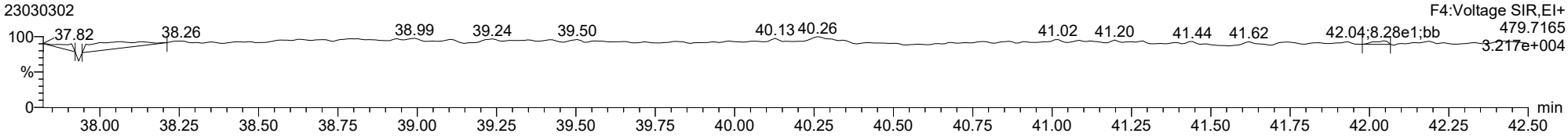

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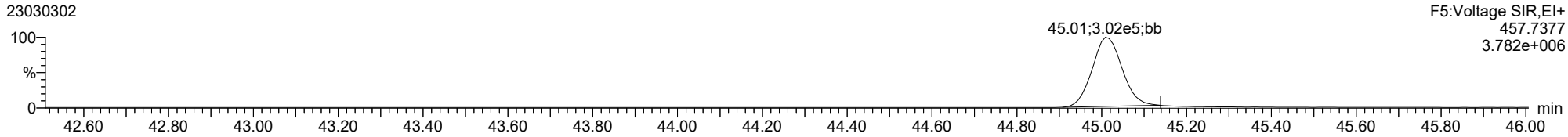

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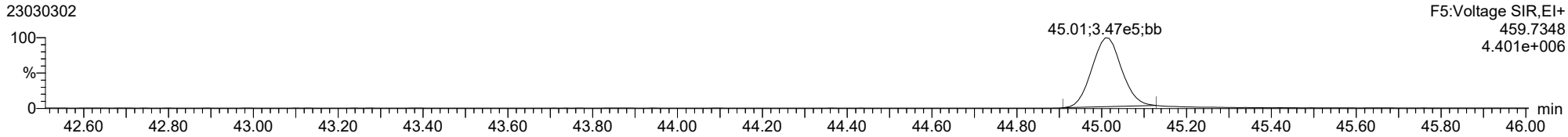

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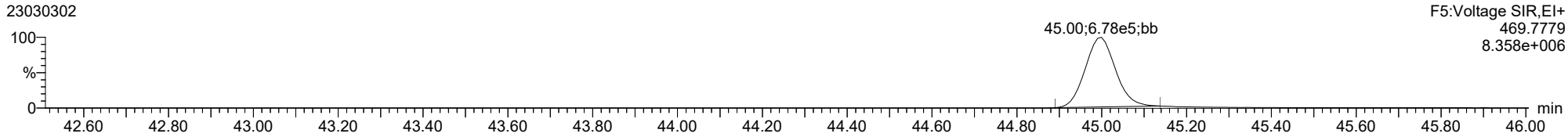

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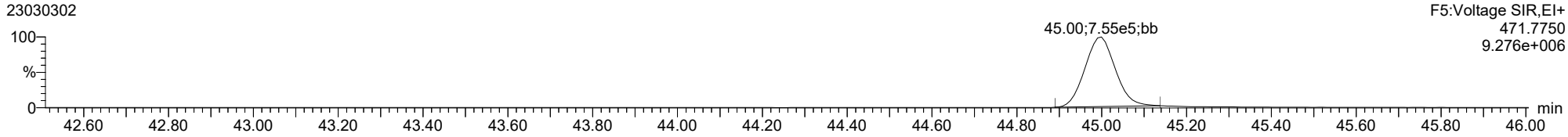
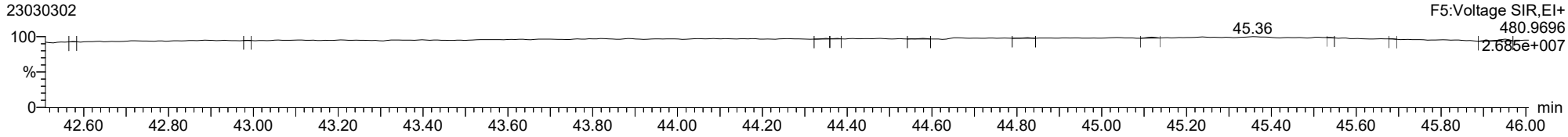


FUNCTION5 PFK



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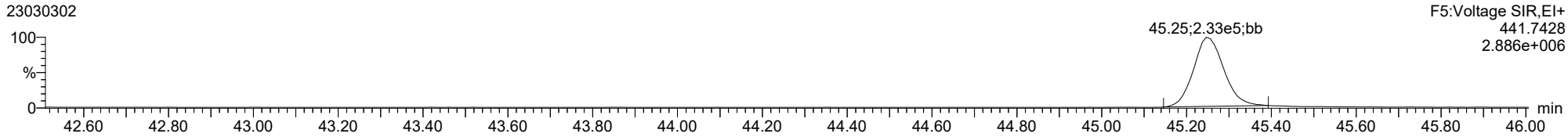

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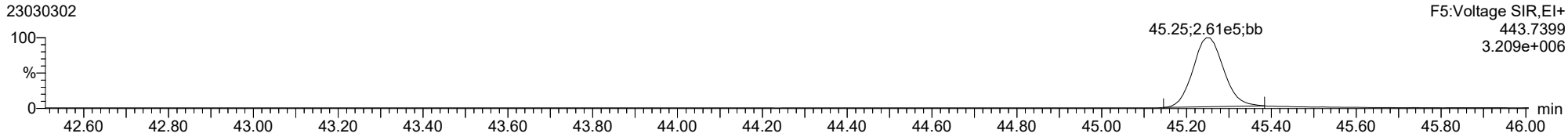

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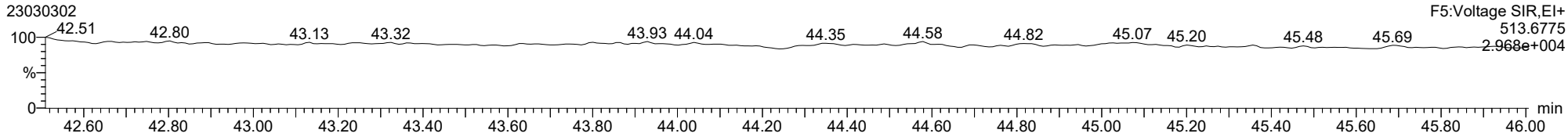

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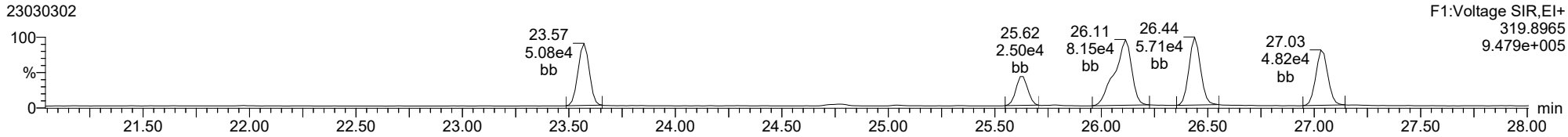
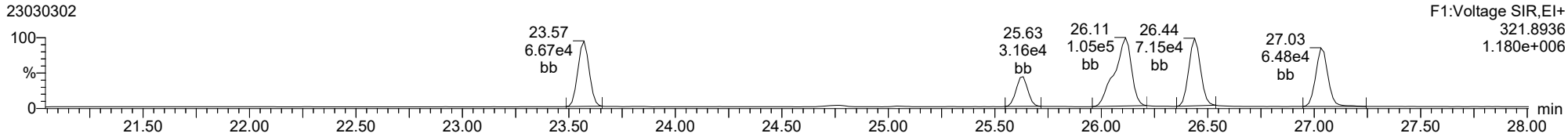
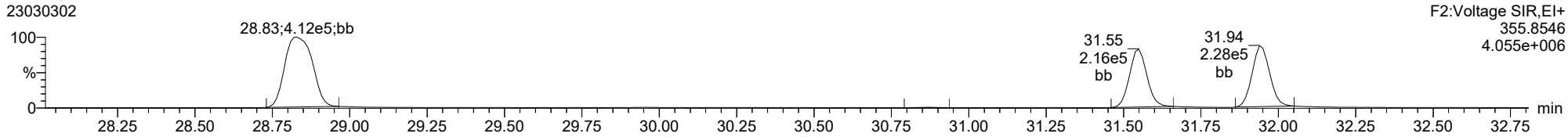


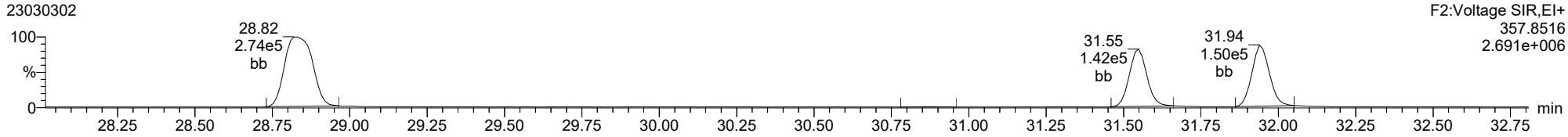
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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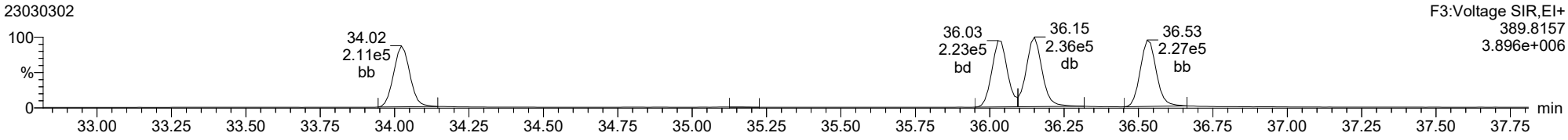

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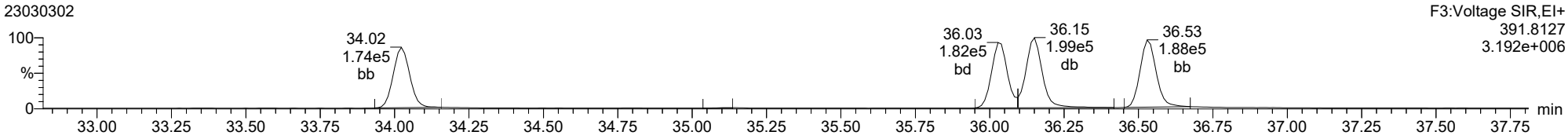

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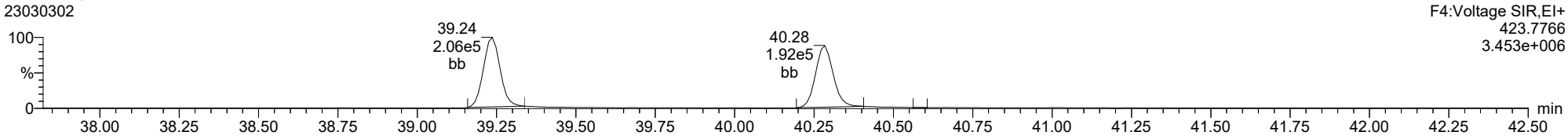

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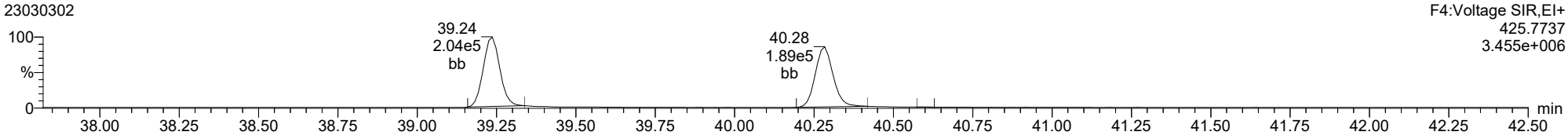

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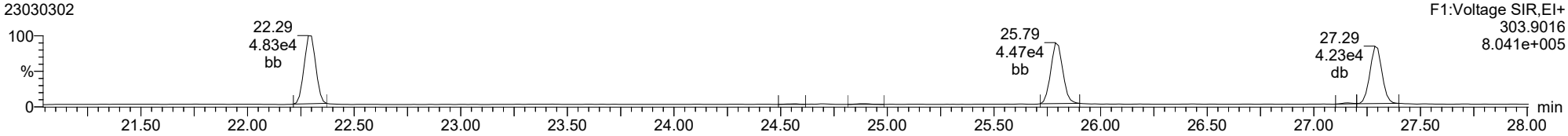
Total-tetrafurans



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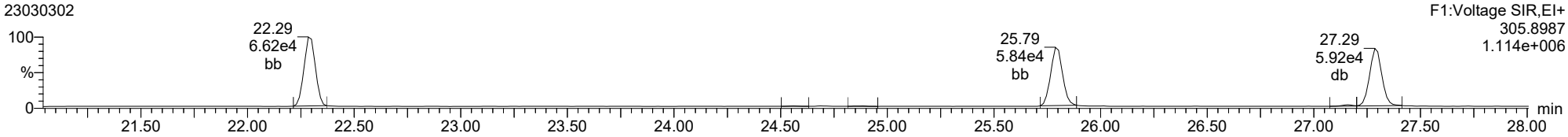

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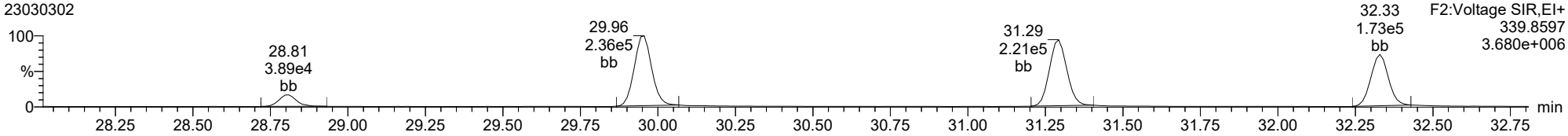

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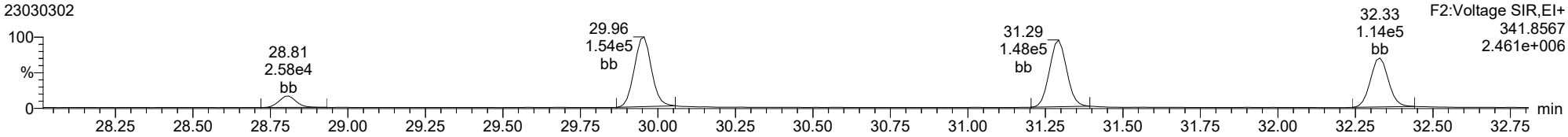

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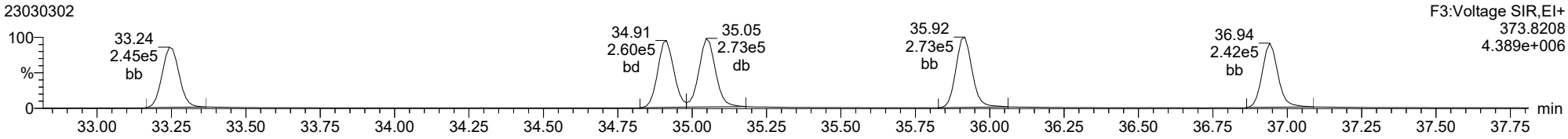
Total-hexafurans



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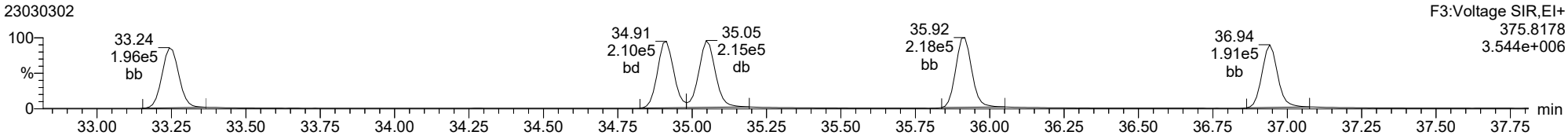

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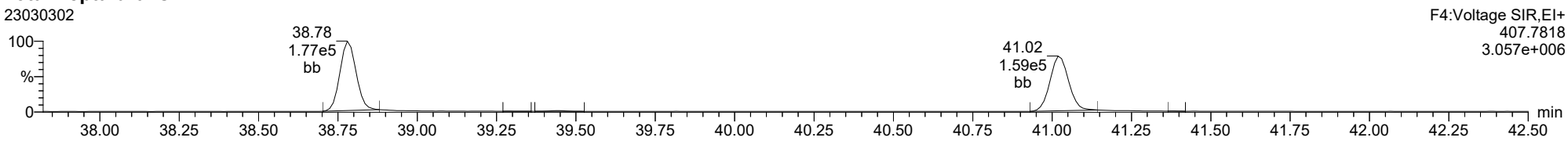

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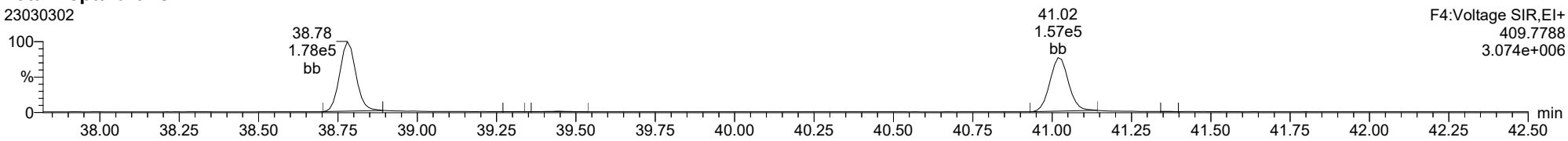

Printed: Friday, March 03, 2023 09:51:10 Pacific Standard Time

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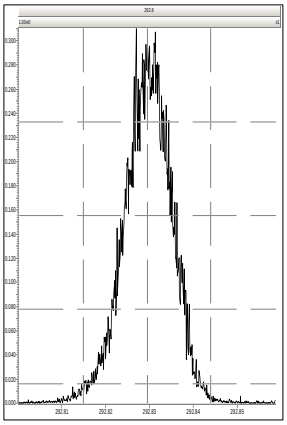

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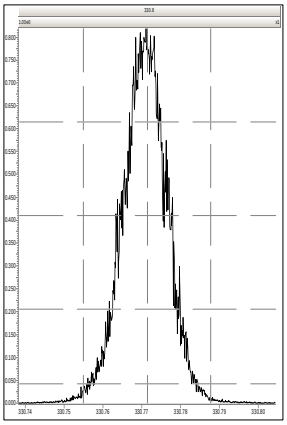

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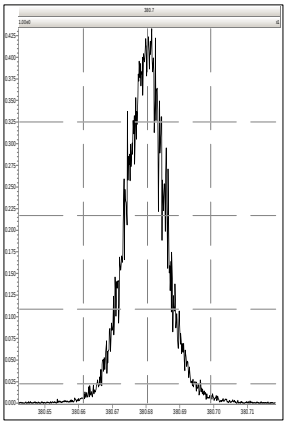

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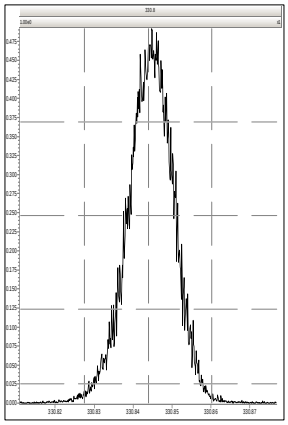

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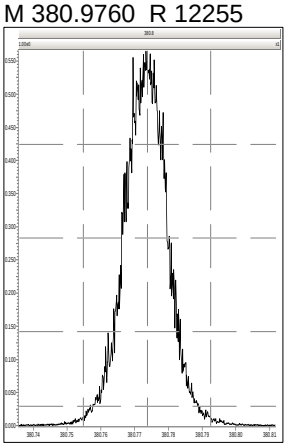

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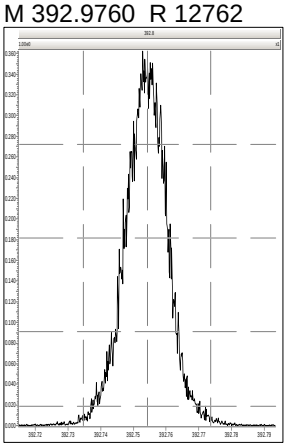

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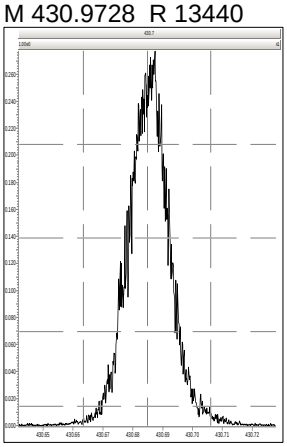
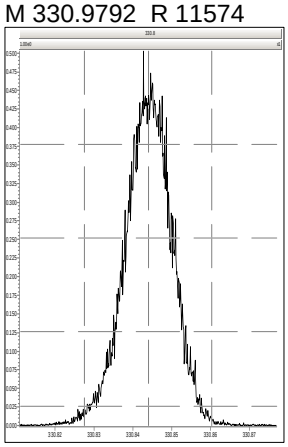
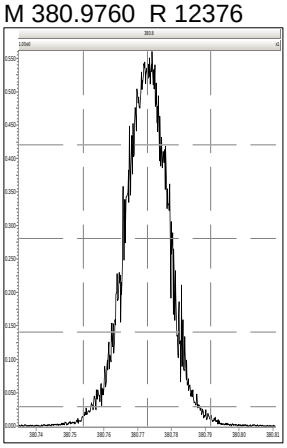


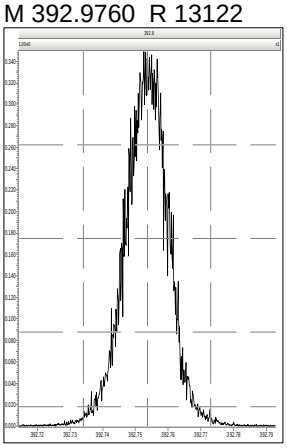
M 330.9792 R 11574



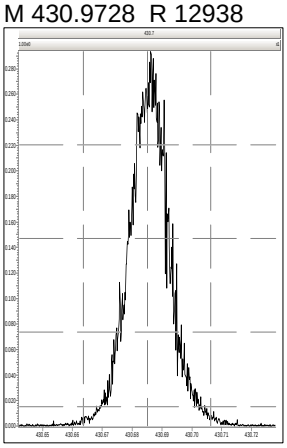
M 380.9760 R 12376



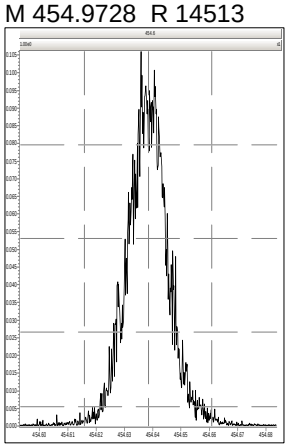
M 392.9760 R 13122



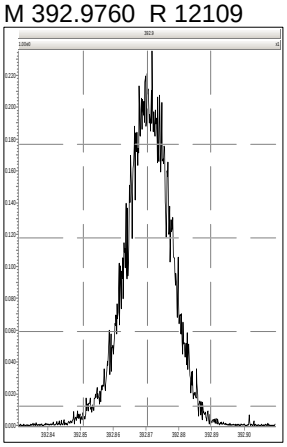
M 430.9728 R 12938



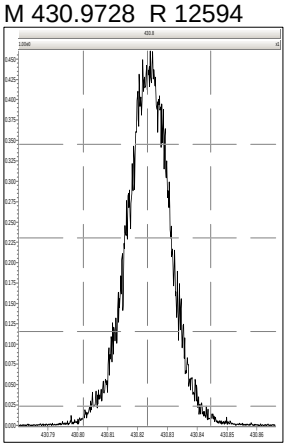
M 454.9728 R 14513



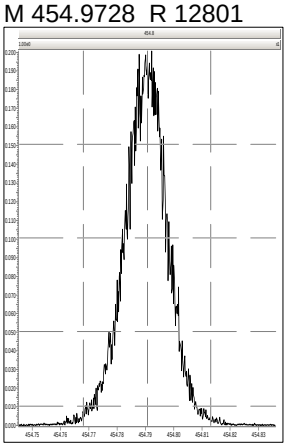
M 392.9760 R 12109



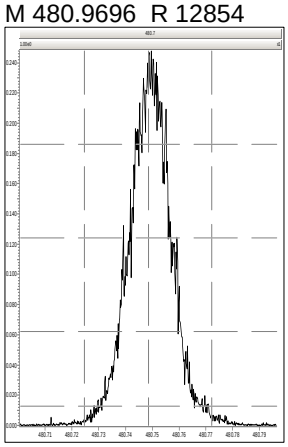
M 430.9728 R 12594



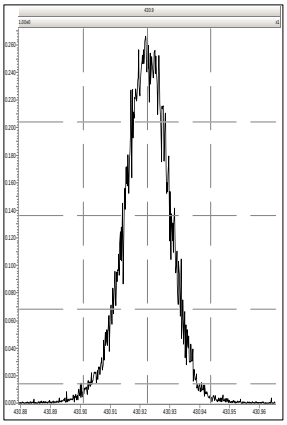
M 454.9728 R 12801



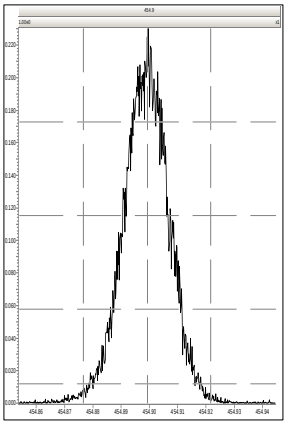
M 480.9696 R 12854



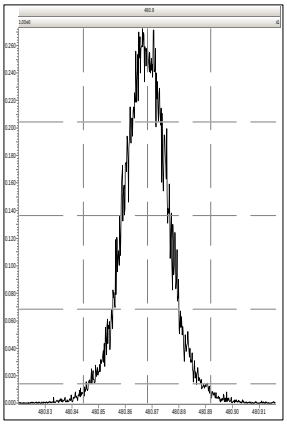
M 430.9728 R 12109



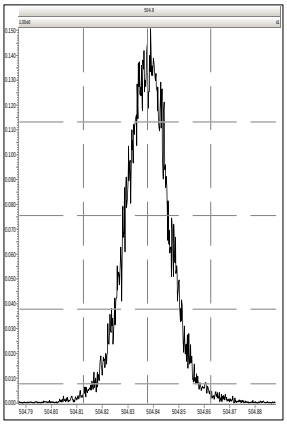
M 454.9728 R 12077



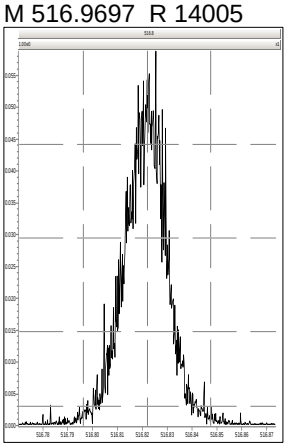
M 480.9696 R 11443

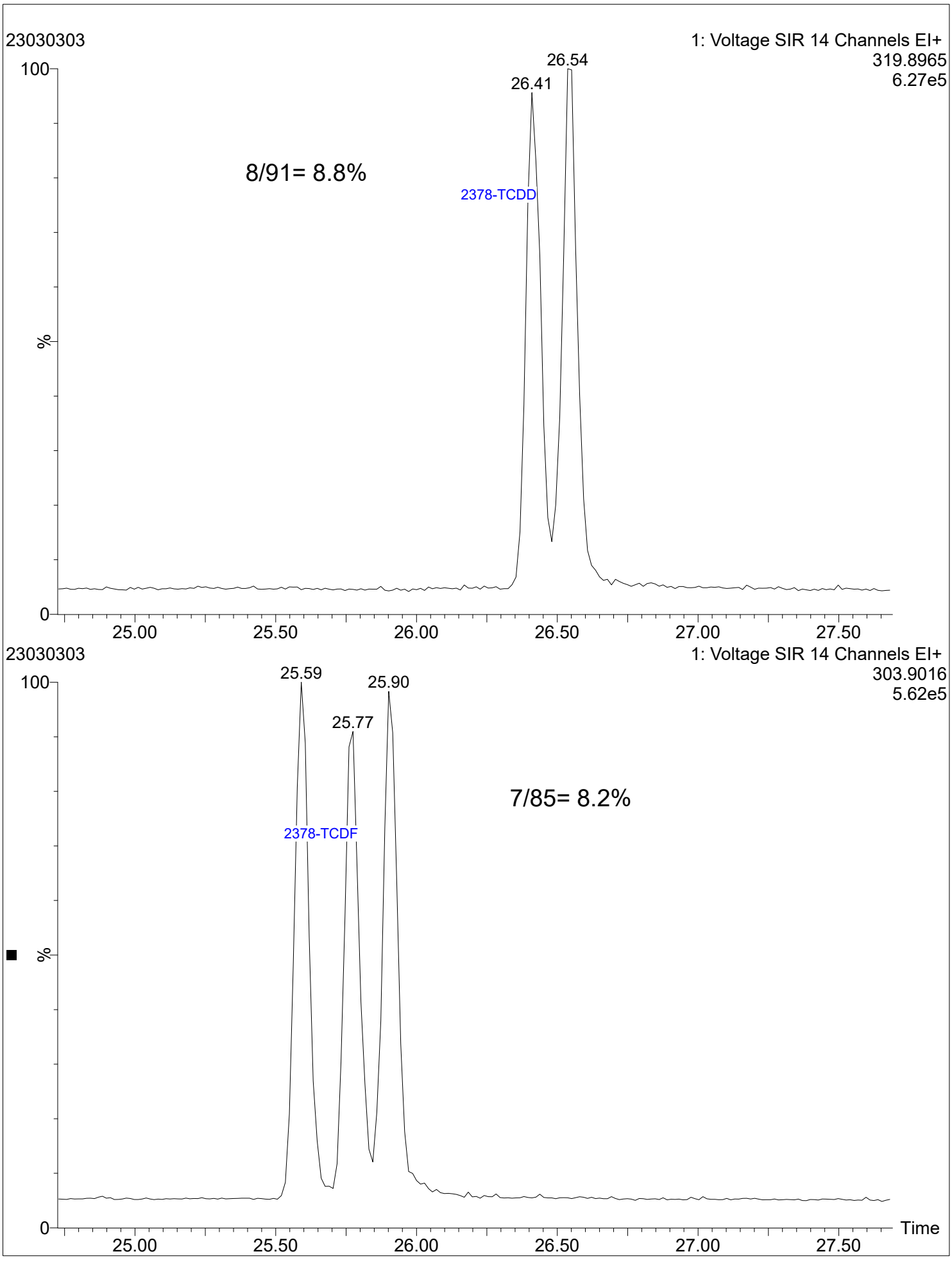


M 504.9696 R 12722



M 516.9697 R 14005




23030303
1: Voltage SIR 14 Channels EI+
319.8965
6.27e5
100
26.54
26.41
8/91= 8.8%
2378-TCDD
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23030303
1: Voltage SIR 14 Channels EI+
303.9016
5.62e5
100
25.59
25.90
25.77
7/85= 8.2%
2378-TCDF
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:33:58 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.702		0.770	1141	1568								
12378-PeCDF	29.922	1.000	2.331e3	1.631e3	0.679	1.429	1.550	717	1165	3.89e4	2.49e4	54.3	21.4	NO	bb	bd	0.520
23478-PeCDF	31.270	1.001	2.446e3	1.527e3	0.786	1.602	1.550	717	1165	3.60e4	2.25e4	50.1	19.4	NO	bb	bb	0.508
123478-HxCDF	34.891	1.001	2.740e3	2.578e3	1.166	1.063	1.240	675	706	4.36e4	3.63e4	64.6	51.5	NO	bd	bd	0.522
234678-HxCDF	35.894	1.001	2.363e3	1.967e3	1.140	1.201	1.240	675	706	3.52e4	3.17e4	52.2	44.9	NO	bb	bb	0.459
123678-HxCDF	35.025	1.000	2.955e3	2.593e3	1.091	1.140	1.240	675	706	3.97e4	3.71e4	58.8	52.6	NO	db	dd	0.495
123789-HxCDF	36.919	1.000	2.292e3	1.751e3	1.137	1.309	1.240	675	706	3.51e4	2.45e4	52.0	34.7	NO	bd	bb	0.523
1234678-HpCDF	38.769	1.001	1.264e3	1.356e3	1.003	0.932	1.050	1176	1150	2.17e4	2.11e4	18.4	18.3	NO	bd	bb	0.466
1234789-HpCDF	40.997	1.000	1.144e3	1.036e3	0.953	1.105	1.050	1176	1150	1.78e4	1.51e4	15.1	13.1	NO	bb	bd	0.465
OCDF	45.228	1.006	2.105e3	2.214e3	0.778	0.951	0.890	762	984	2.31e4	2.16e4	30.2	22.0	NO	bb	bb	1.044
2378-TCDD					1.149		0.770	1186	741								
12378-PeCDD	31.527	1.001	2.628e3	1.506e3	1.022	1.745	1.550	935	615	3.66e4	1.58e4	39.1	25.7	NO	bb	bb	0.540
123478-HxCDD	36.016	1.001	2.113e3	1.865e3	0.996	1.133	1.240	725	812	3.30e4	2.93e4	45.6	36.1	NO	dd	bd	0.542
123678-HxCDD	36.128	1.001	2.428e3	1.876e3	1.001	1.294	1.240	725	812	3.70e4	2.39e4	51.1	29.5	NO	db	db	0.479
123789-HxCDD	36.507	1.011	2.154e3	1.651e3	0.907	1.304	1.240	725	812	3.30e4	2.34e4	45.5	28.9	NO	bd	bb	0.513
1234678-HpCDD	40.261	1.000	1.634e3	1.397e3	1.039	1.170	1.050	985	1205	2.31e4	2.24e4	23.5	18.6	NO	MM	bb	0.531
OCDD					0.920		0.890	1090	941								
13C-2378-TCDF	25.746	1.007	5.730e5	7.592e5	1.620	0.755	0.770	2498	2006	8.42e6	1.11e7	3371.3	5556.4	NO	bb	bb	100.702
13C-12378-PeCDF	29.911	1.169	6.805e5	4.409e5	1.240	1.543	1.550	2678	2220	9.20e6	6.10e6	3433.8	2749.3	NO	bb	bd	110.727
13C-23478-PeCDF	31.248	1.222	6.001e5	3.956e5	1.118	1.517	1.550	2678	2220	8.66e6	5.74e6	3235.2	2585.6	NO	bb	bb	109.107
13C-123478-HxCDF	34.869	0.955	2.965e5	5.770e5	1.168	0.514	0.510	1558	3112	4.38e6	8.54e6	2813.2	2745.5	NO	bd	bd	98.607
13C-123678-HxCDF	35.014	0.959	3.446e5	6.820e5	1.386	0.505	0.510	1558	3112	4.56e6	9.02e6	2927.1	2898.6	NO	db	dd	97.648
13C-234678-HxCDF	35.872	0.983	2.821e5	5.460e5	1.129	0.517	0.510	1558	3112	4.13e6	8.00e6	2652.6	2572.0	NO	bb	bb	96.703
13C-123789-HxCDF	36.908	1.011	2.282e5	4.511e5	0.932	0.506	0.510	1558	3112	3.31e6	6.47e6	2122.2	2079.8	NO	bb	bb	96.146
13C-1234678-HpCDF	38.746	1.062	1.794e5	3.814e5	0.895	0.470	0.440	2435	3572	2.60e6	5.93e6	1069.0	1659.1	NO	bd	bb	82.620
13C-1234789-HpCDF	40.986	1.123	1.404e5	3.516e5	0.770	0.399	0.440	2435	3572	1.98e6	4.51e6	813.8	1262.1	NO	bb	bb	84.288
13C-1234-TCDD	25.576	0.000	3.640e5	4.524e5	1.000	0.805	0.770	1931	1352	5.55e6	6.91e6	2875.2	5114.0	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.032	4.012e5	4.998e5	1.152	0.803	0.770	1931	1352	5.75e6	7.10e6	2979.4	5249.9	NO	bb	bb	95.760
13C-12378-PeCDD	31.504	1.232	4.613e5	2.880e5	0.829	1.602	1.550	1401	1533	6.70e6	4.14e6	4781.1	2700.1	NO	bb	bb	110.725
13C-123478-HxCDD	35.994	0.986	4.133e5	3.236e5	0.995	1.277	1.240	1744	1461	6.55e6	5.10e6	3756.0	3493.2	NO	bd	bd	97.670
13C-123678-HxCDD	36.106	0.989	5.195e5	3.785e5	1.157	1.372	1.240	1744	1461	6.84e6	5.29e6	3920.0	3622.3	NO	db	db	102.381
13C-1234678-HpCDD	40.250	1.103	2.785e5	2.707e5	0.840	1.029	1.050	1497	2275	3.82e6	3.65e6	2553.8	1605.5	NO	bb	bd	86.201
13C-OCDD	44.972	1.232	5.210e5	5.429e5	0.767	0.960	0.890	2989	1436	5.87e6	6.48e6	1964.2	4513.5	NO	bd	bb	182.810
13C-123789-HxCDD	36.496	0.000	4.181e5	3.402e5	1.000	1.229	1.240	1744	1461	6.11e6	4.85e6	3503.9	3317.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.410	1.033	1.287e3		1.288			1959		1.53e4		7.8			db		0.122

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:33:58 Pacific Standard Time

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1141	1568								
1289-TCDF					0.678		0.770	1141	1568								
13468-PECDF					1.246		1.550	669	893								
12389-PECDF					0.496		1.550	717	1165								
123468-HXCDF					1.169		1.240	675	706								
1368-TCDD					1.015		0.770	1186	741								
1289-TCDD					0.909		0.770	1186	741								
12479-PECDD					2.301		1.550	935	615								
12389-PECDD					1.184		1.550	935	615								
124679-HXCDD					1.115		1.240	725	812								
1234679-HPCDD					1.137		1.050	985	1205								
Total-tetrafurans			0.000e0		0.727			1141		0.00e0							
Total-penta1			0.000e0					669		0.00e0							
Total-pentafurans			4.777e3		0.654			717		7.49e4							1.028
Total-hexafurans			1.035e4		1.141			675		1.54e5							2.000
Total-heptafurans			2.408e3		0.978			1176		3.94e4							0.931
Total-Furans			1.971e4		0.922			1141		2.93e5							5.016
Total-tetradioxins			0.000e0		1.024			1186		0.00e0							
Total-pentadioxins			2.628e3		1.502			935		3.66e4							0.540
Total-hexadioxins			6.694e3		1.005			725		1.03e5							1.534
Total-heptadioxins			1.634e3		1.088			985		2.31e4							0.531
Total-Dioxins			1.096e4		1.130			1186		1.63e5							2.605
Total-TEQ			3.067e4					1186		4.55e5							7.621
FUNCTION1 PFK			3.116e6					620464		1.62e6							
FUNCTION2 PFK			1.698e6					301200		2.24e6							0.000
FUNCTION3 PFK			5.380e7					450736		2.93e7							0.000
FUNCTION4 PFK			1.391e7					291095		1.60e7							
FUNCTION5 PFK			7.208e4					238350		2.59e6							
FUNCTION1 HXCD...			4.809e2					559		5.84e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.084e2					933		1.50e4							0.000
FUNCTION3 OCDPE			0.000e0					494		0.00e0							
FUNCTION4 NCDPE			6.931e2					845		1.26e4							0.000
FUNCTION5 DCDPE			7.511e2					821		1.86e4							0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
2	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
2	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
3	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
4	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
2	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.68	7.033e1	1.021e2	0.922	0.69	0.77	1.5	NO	NO	bb	bb	0.014
2	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
3	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
4	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
5	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522
6	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
7	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520
8	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
9	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465
10	OCDF	45.23	2.105e3	2.214e3	0.778	0.95	0.89	30.2	YES	NO	bb	bb	1.044

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
2	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
3	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540
2	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
3	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
4	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542
5	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.68	7.033e1	1.021e2	0.922	0.69	0.77	1.5	NO	NO	bb	bb	0.014
2	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
3	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
4	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
5	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522
6	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
7	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520
8	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
9	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465
10	OCDF	45.23	2.105e3	2.214e3	0.778	0.95	0.89	30.2	YES	NO	bb	bb	1.044
11	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540
12	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
13	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
14	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542
15	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.18	3.116e6					2.6	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.19	1.560e6					3.1	YES		bb		0.000
2	FUNCTION2 PFK	28.13	1.376e5					4.3	YES		bb		0.000

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.12	2.560e6					15.7	YES		db		0.000
2	FUNCTION3 PFK	36.37	7.058e6					24.4	YES		dd		0.000
3	FUNCTION3 PFK	36.11	4.418e7					24.8	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.43	1.404e5					1.6	NO		bb		
2	FUNCTION4 PFK	37.89	1.377e7					53.2	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.15	7.152e3					1.1	NO		bb		
2	FUNCTION5 PFK	45.07	1.178e3					0.5	NO		bb		
3	FUNCTION5 PFK	44.98	1.177e3					0.5	NO		bb		
4	FUNCTION5 PFK	44.19	7.772e3					0.8	NO		bb		
5	FUNCTION5 PFK	43.72	7.921e3					1.3	NO		bb		
6	FUNCTION5 PFK	43.60	4.474e3					0.7	NO		bb		
7	FUNCTION5 PFK	43.17	6.636e3					1.2	NO		bb		
8	FUNCTION5 PFK	43.01	5.001e3					0.7	NO		bb		
9	FUNCTION5 PFK	42.76	1.253e4					1.4	NO		bb		
10	FUNCTION5 PFK	45.91	8.220e3					0.4	NO		bb		
11	FUNCTION5 PFK	45.75	6.523e3					1.4	NO		bb		
12	FUNCTION5 PFK	45.25	3.501e3					0.7	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.60	9.542e1					2.4	NO		bb		0.000
2	FUNCTION1 HXCD...	26.42	7.837e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.58	1.709e2					3.5	YES		bb		0.000
4	FUNCTION1 HXCD...	23.40	1.362e2					2.7	NO		bb		0.000

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.36	1.308e2					1.8	NO		bb		0.000
2	FUNCTION2 HPCD...	31.75	8.377e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	31.30	1.170e2					2.2	NO		db		0.000
4	FUNCTION2 HPCD...	31.24	1.138e2					2.6	NO		bd		0.000
5	FUNCTION2 HPCD...	30.92	1.786e2					3.2	YES		bb		0.000
6	FUNCTION2 HPCD...	30.04	8.034e1					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	29.47	1.041e2					2.9	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	9.826e1					2.2	NO		bb		0.000
2	FUNCTION4 NCDPE	41.83	1.085e2					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	41.67	8.318e1					2.8	NO		db		0.000
4	FUNCTION4 NCDPE	41.58	1.047e2					2.5	NO		bd		0.000
5	FUNCTION4 NCDPE	41.32	1.741e2					2.4	NO		bb		0.000
6	FUNCTION4 NCDPE	41.15	1.244e2					2.8	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.53	7.557e1					1.5	NO		bb		0.000
2	FUNCTION5 DCDPE	43.39	1.767e2					2.9	NO		bb		0.000
3	FUNCTION5 DCDPE	43.31	8.303e1					2.9	NO		db		0.000
4	FUNCTION5 DCDPE	43.27	1.217e2					4.5	YES		bd		0.000
5	FUNCTION5 DCDPE	43.04	1.550e2					3.9	YES		bb		0.000
6	FUNCTION5 DCDPE	42.73	1.390e2					7.0	YES		bb		0.000

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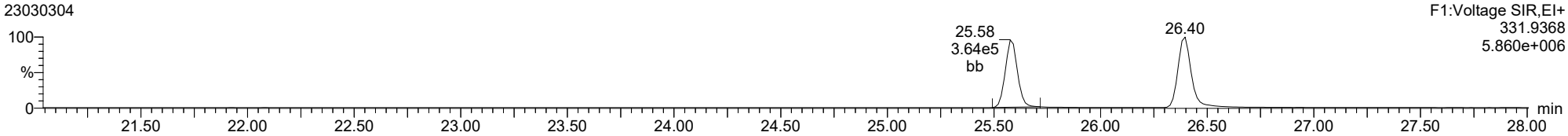

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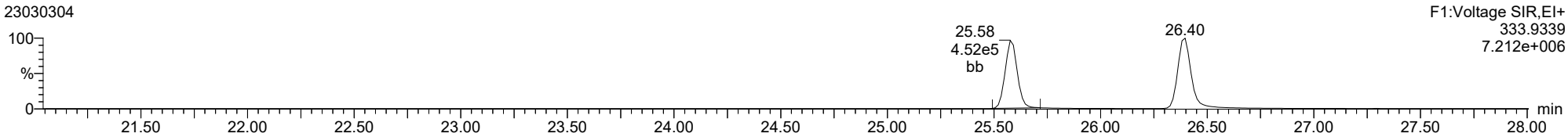

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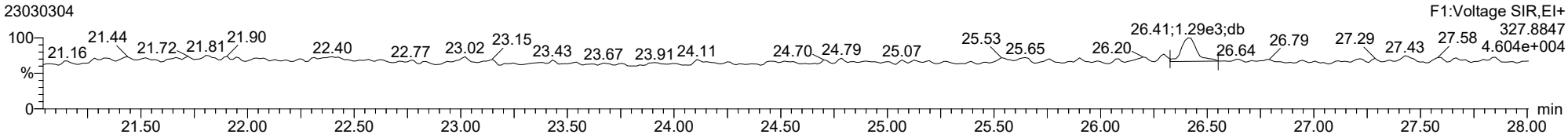

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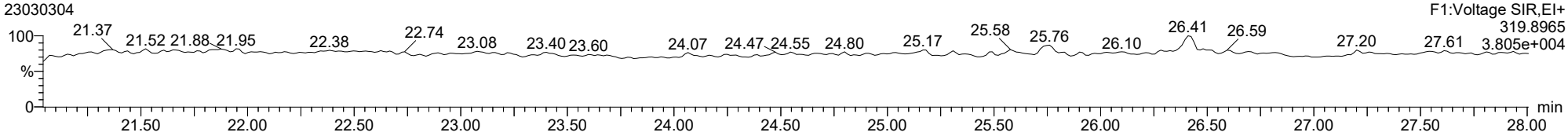

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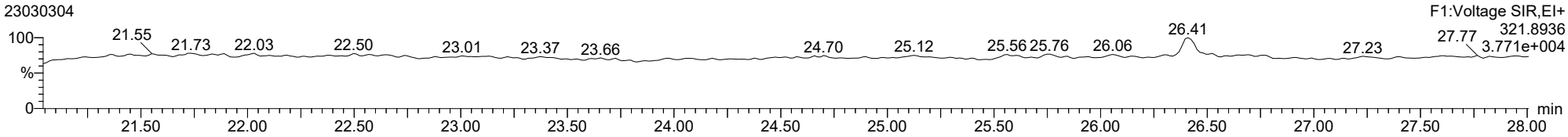

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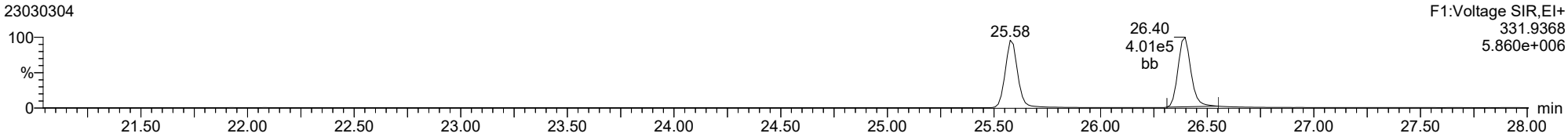

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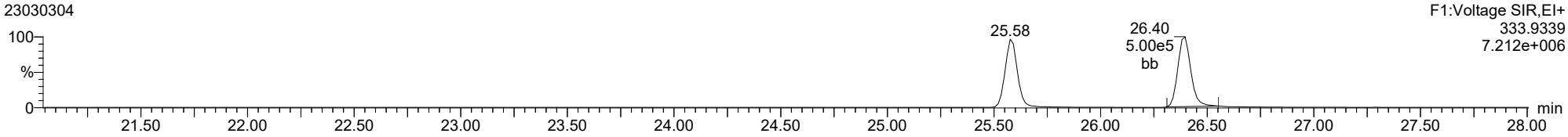

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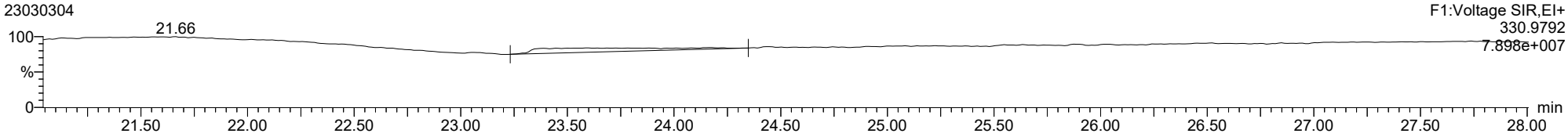

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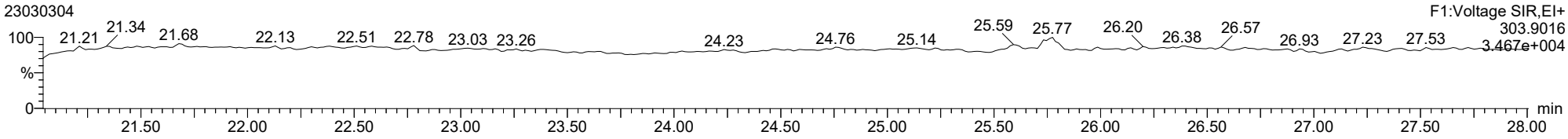

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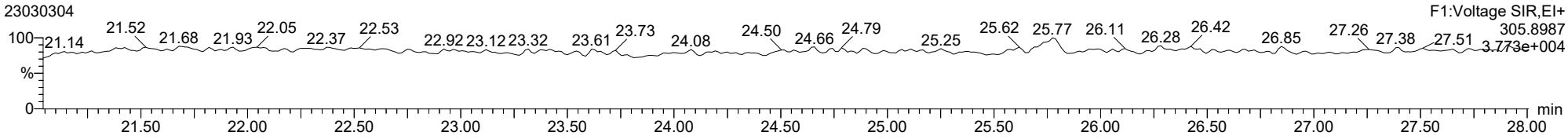

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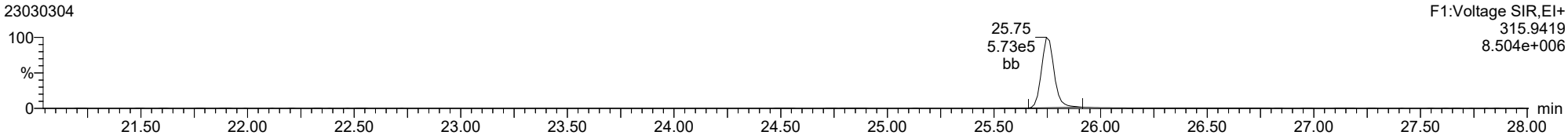

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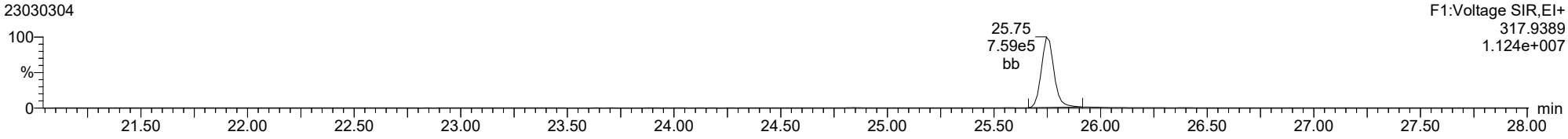

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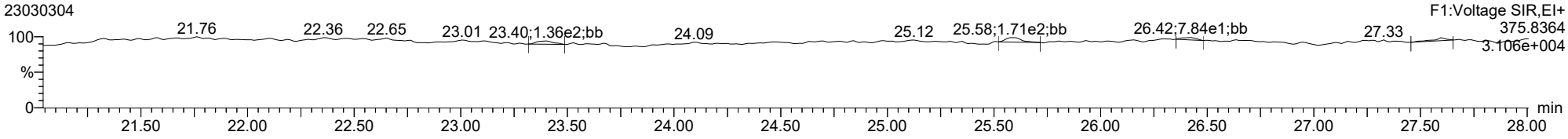

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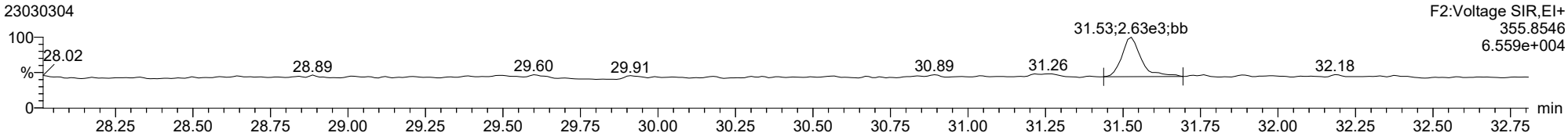
12378-PeCDD



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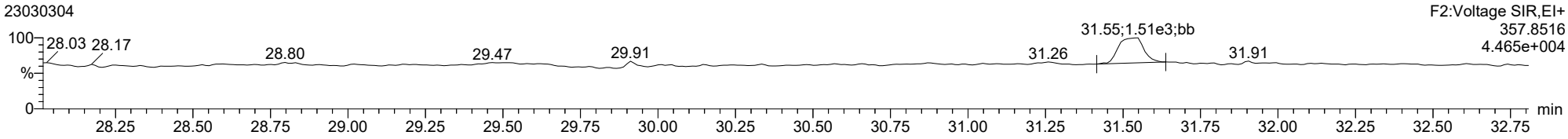

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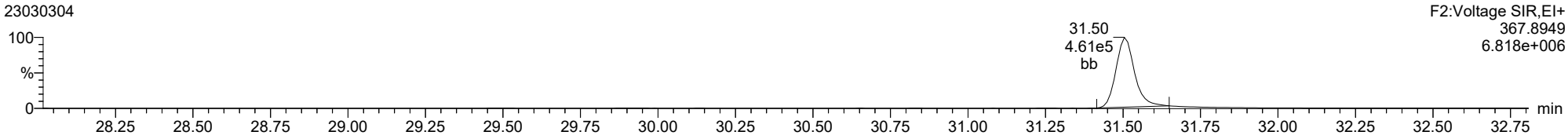

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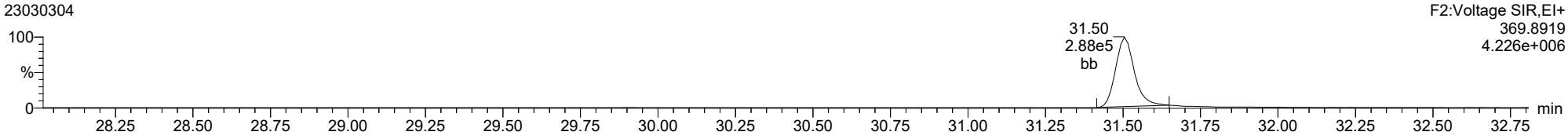

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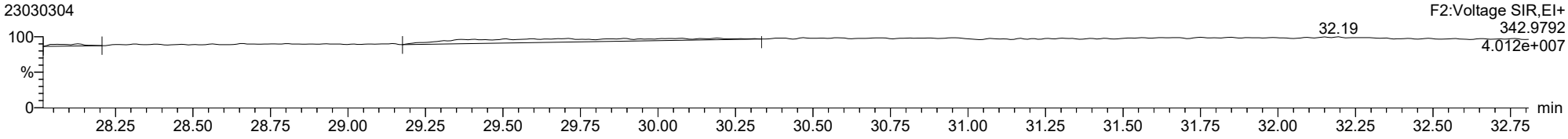

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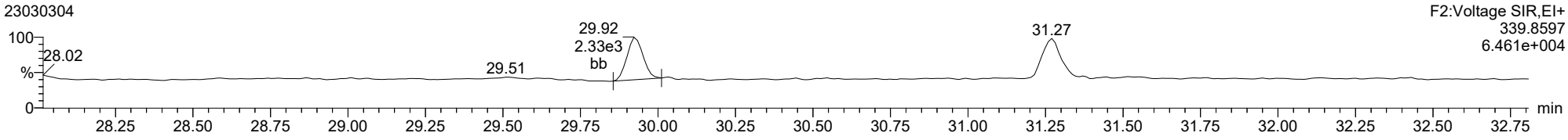

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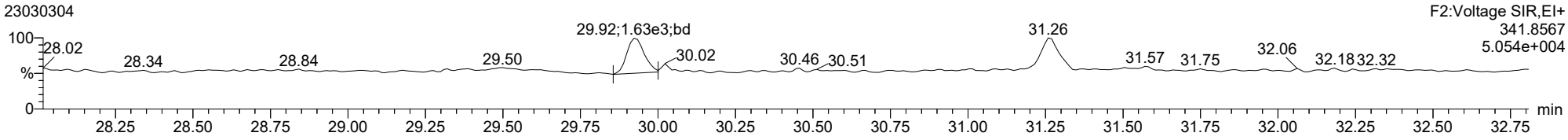

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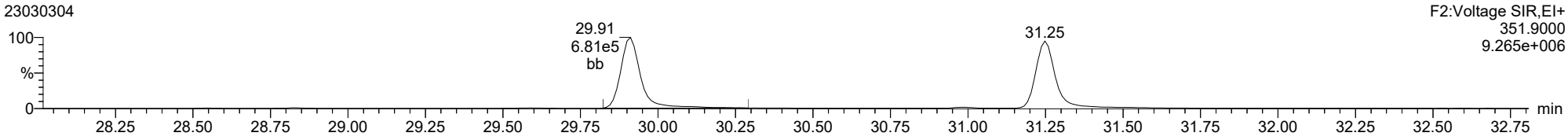

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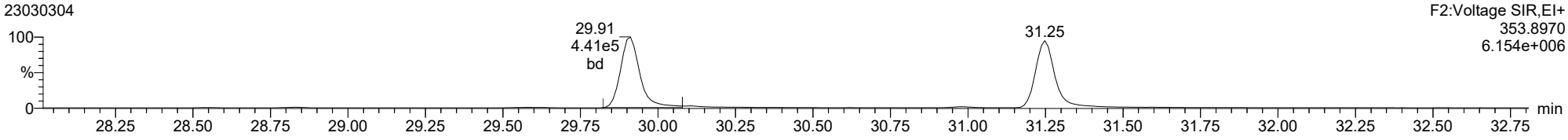

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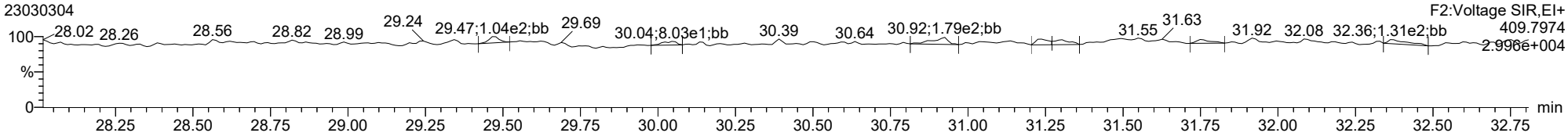

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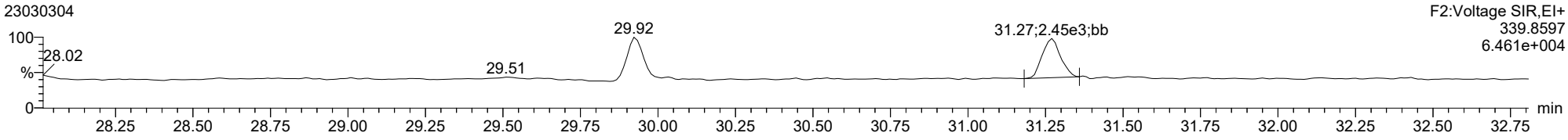
23478-PeCDF



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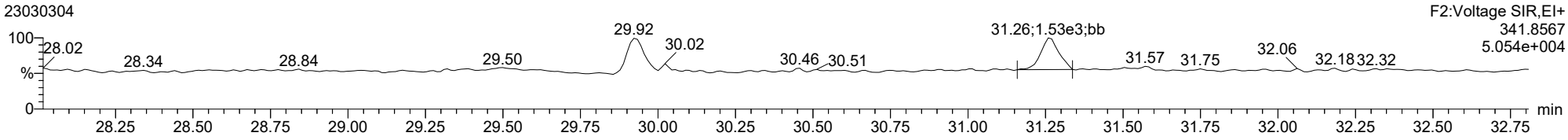

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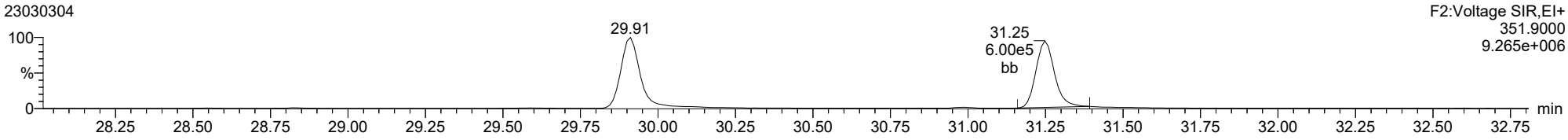

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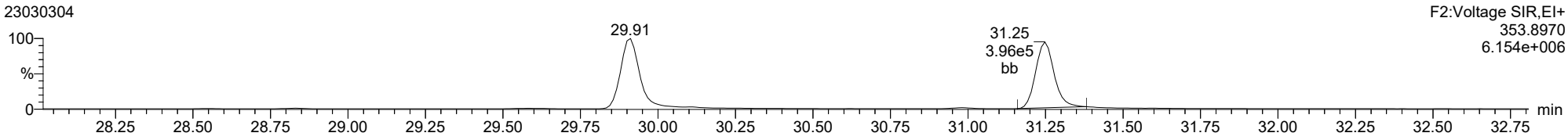

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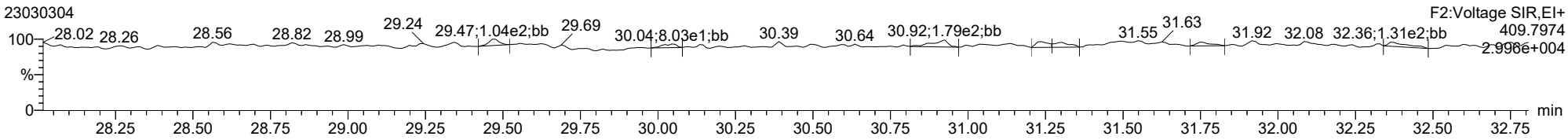

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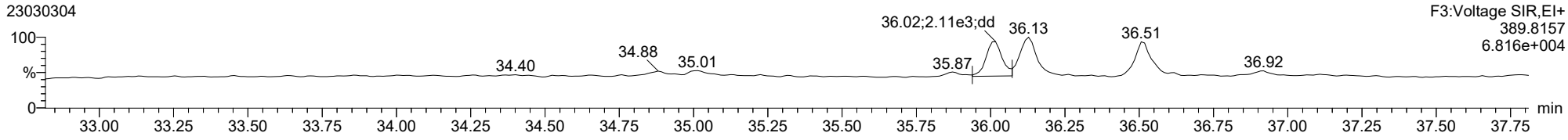

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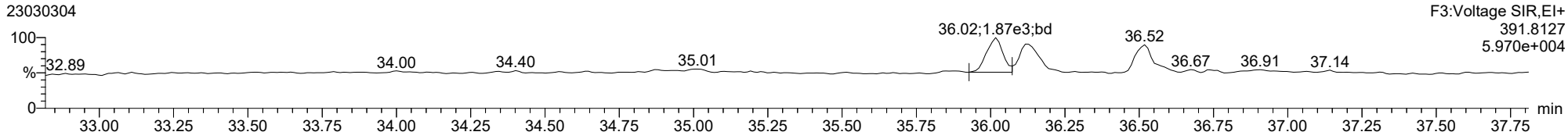

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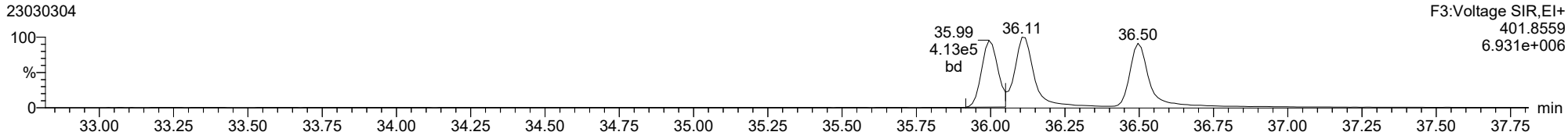

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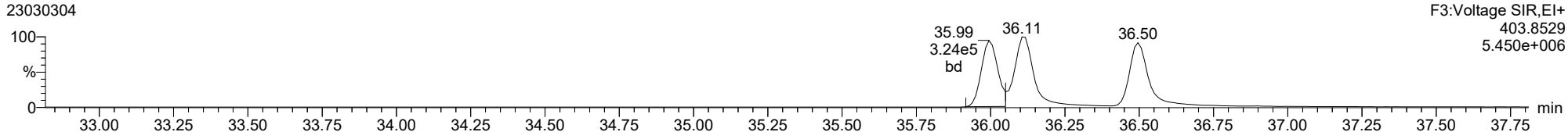

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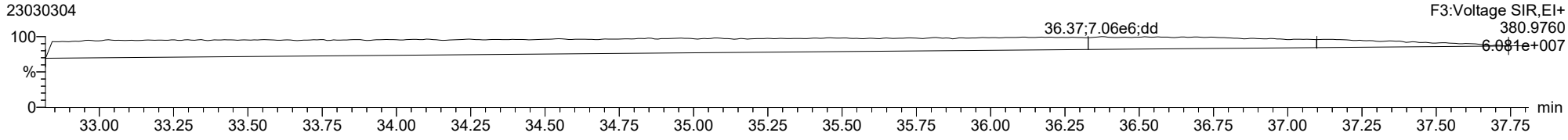

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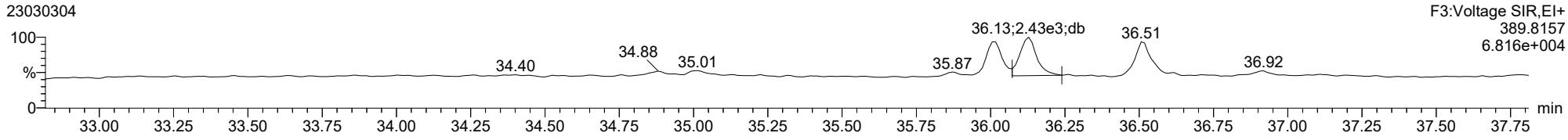

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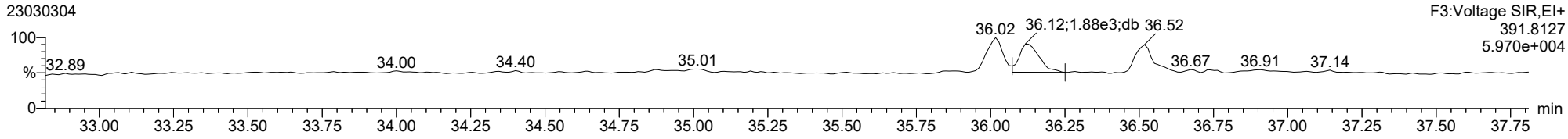

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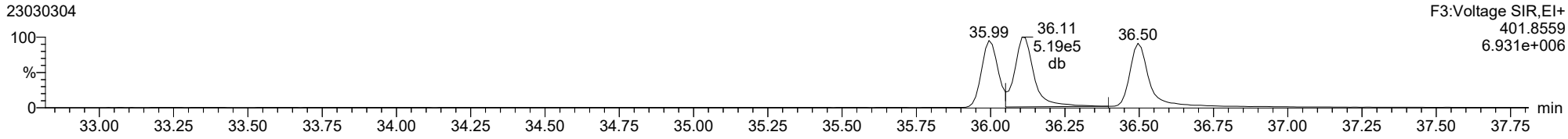

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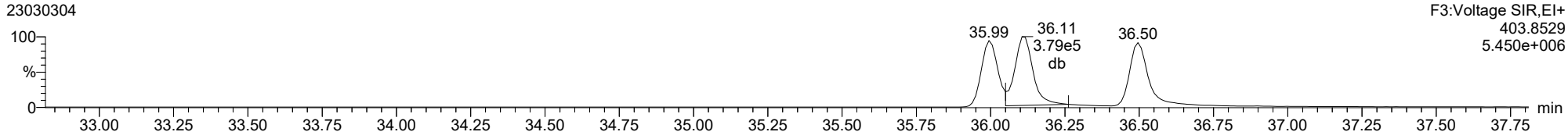

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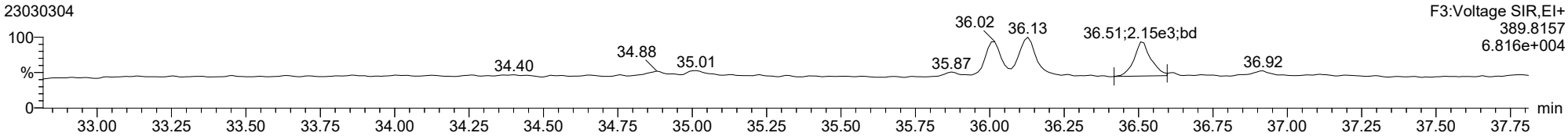

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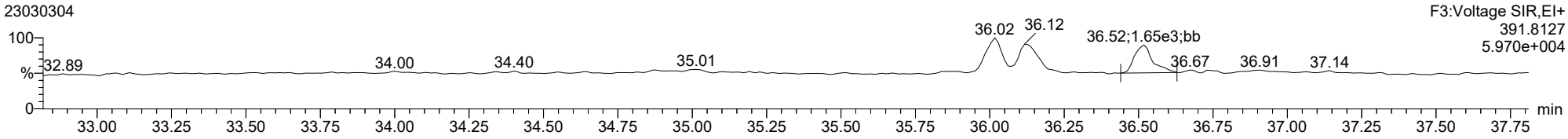

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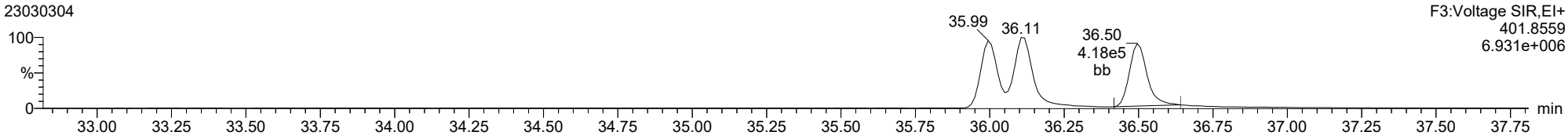

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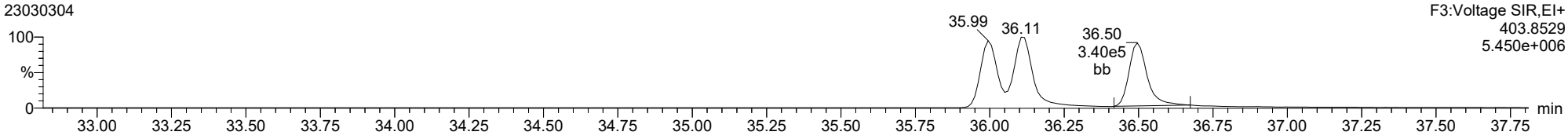

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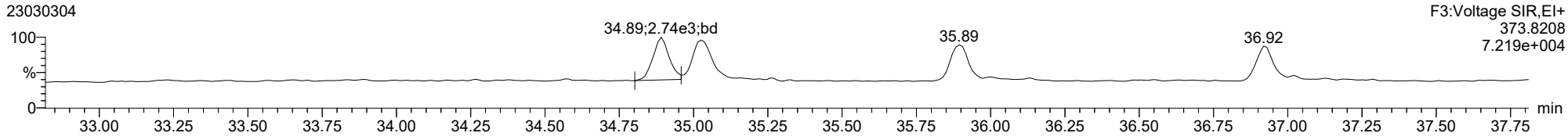

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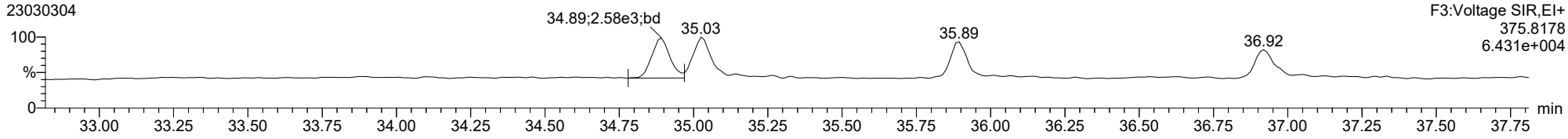

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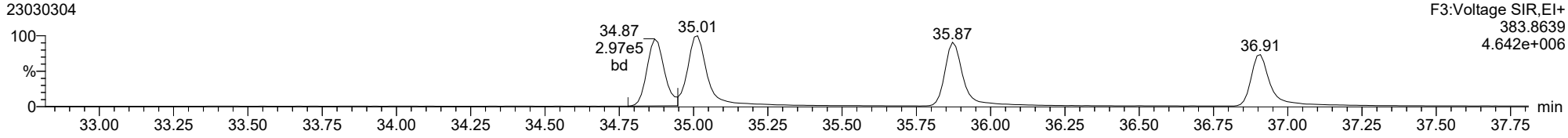

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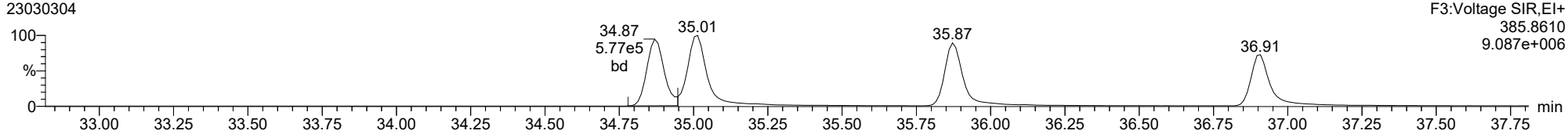

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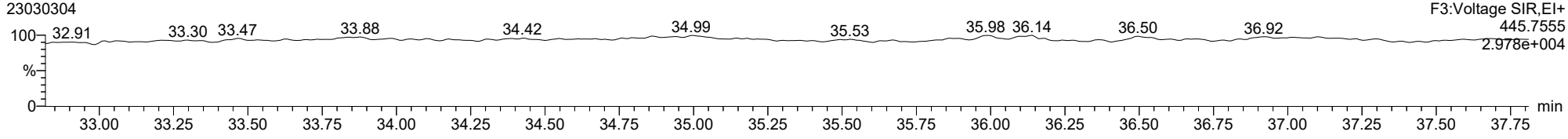

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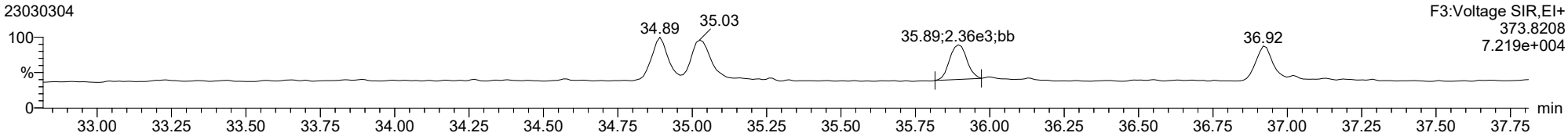

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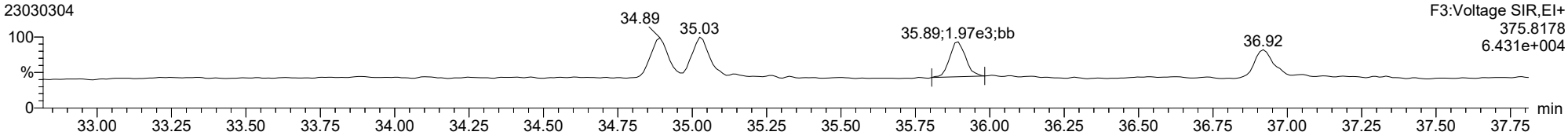

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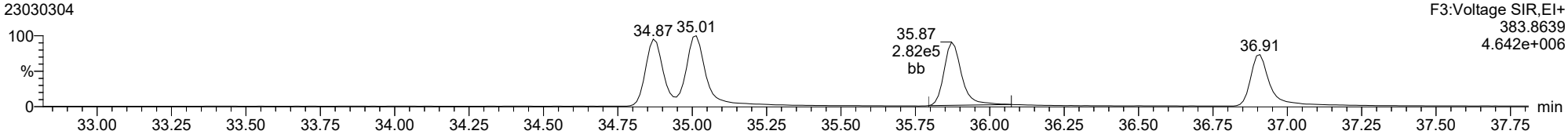

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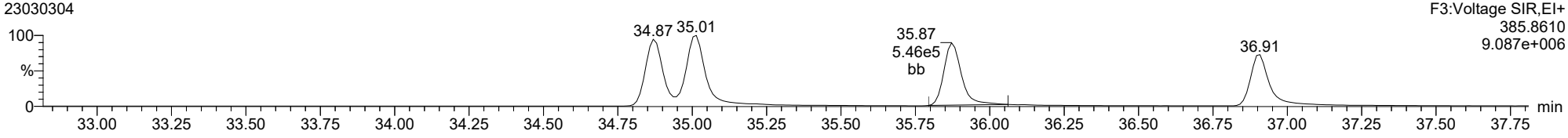
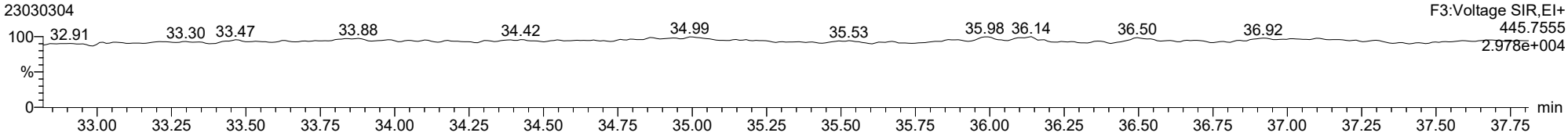


FUNCTION3 OCDPE



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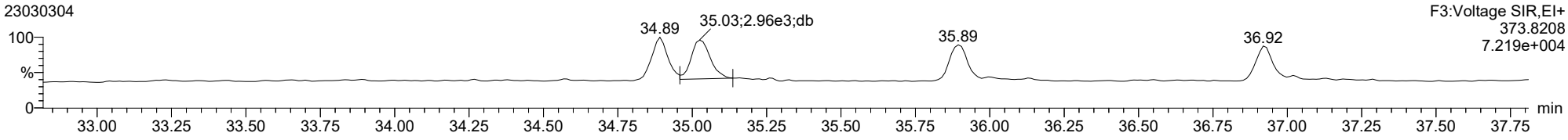

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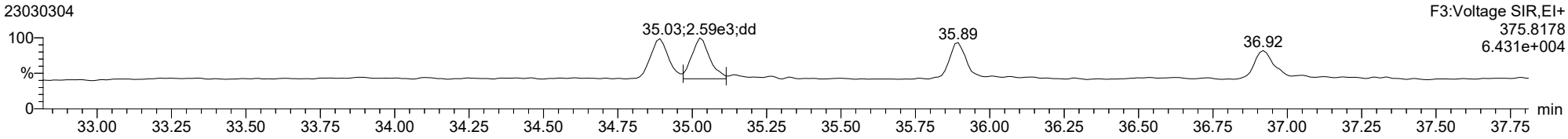

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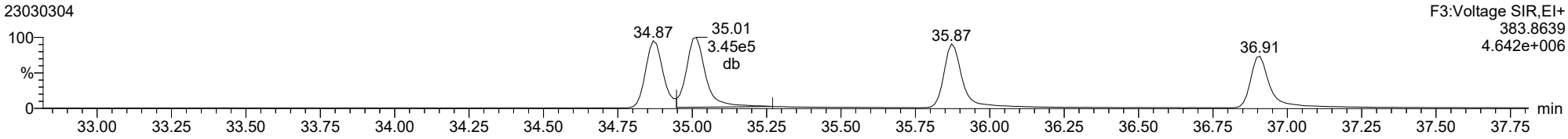

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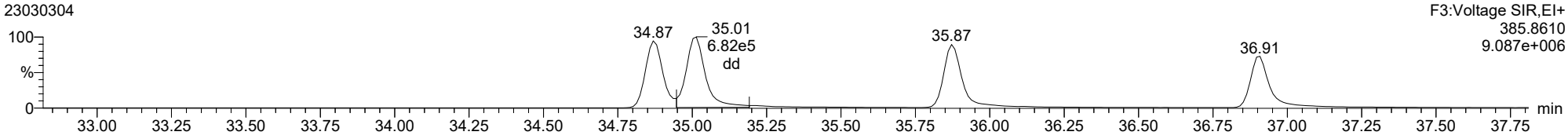
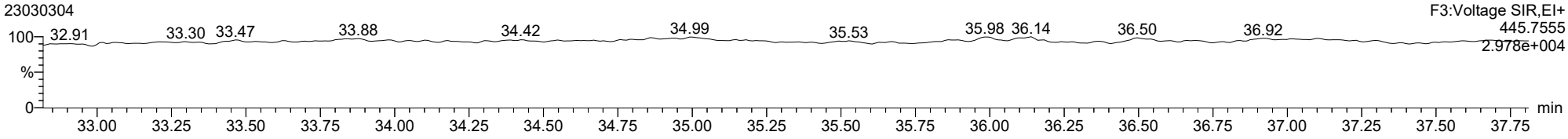


FUNCTION3 OCDPE



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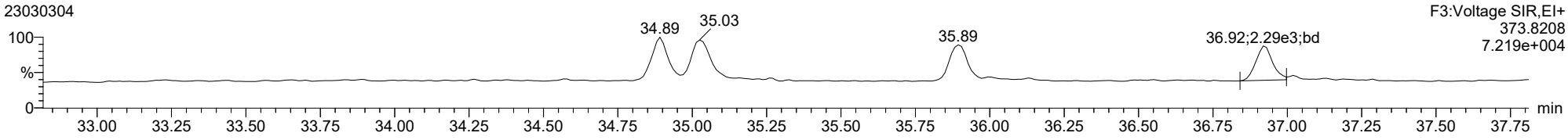

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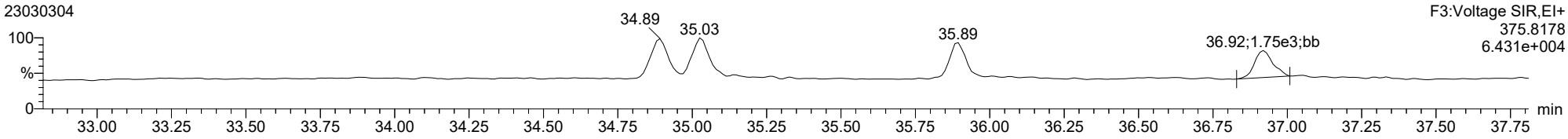

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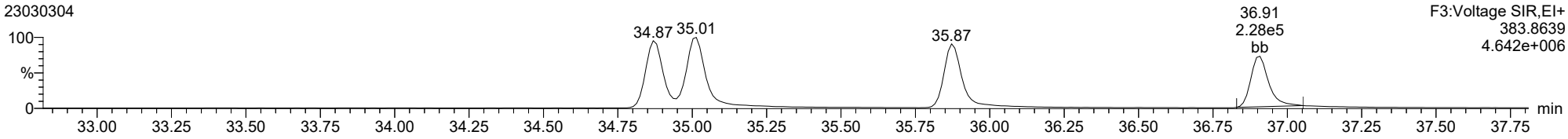

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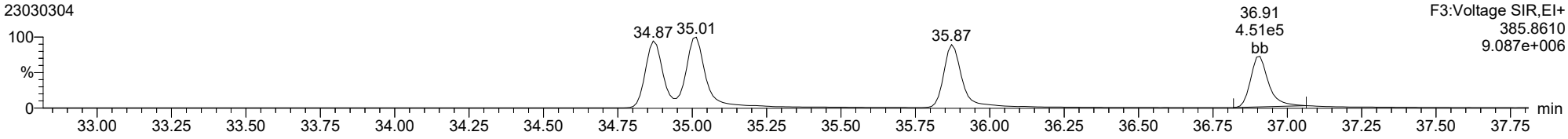
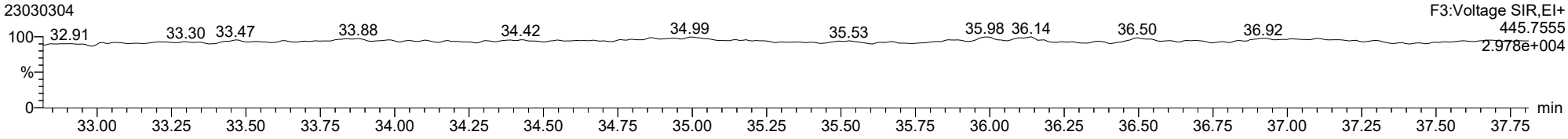


FUNCTION3 OCDPE



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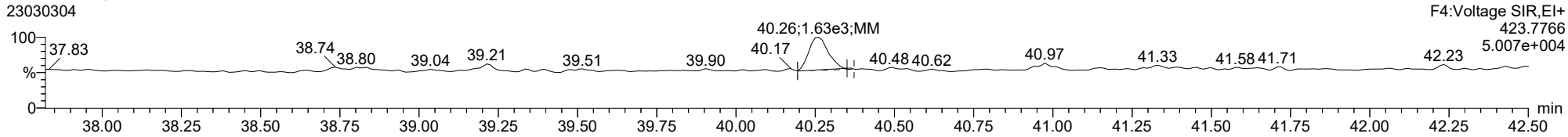
1234678-HpCDD



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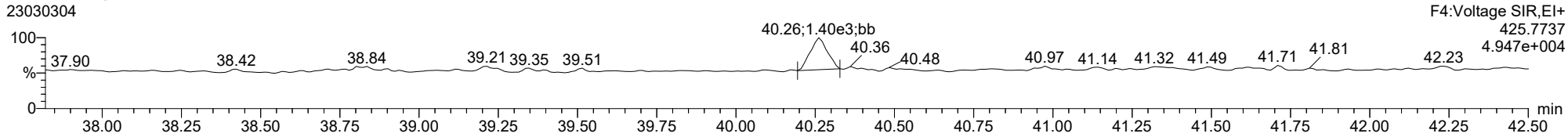

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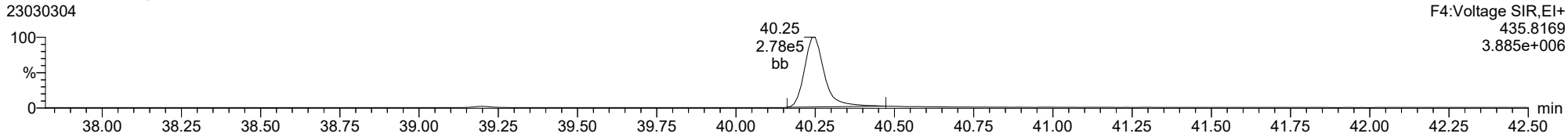

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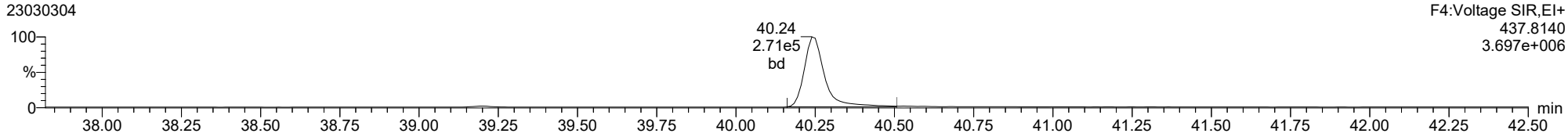
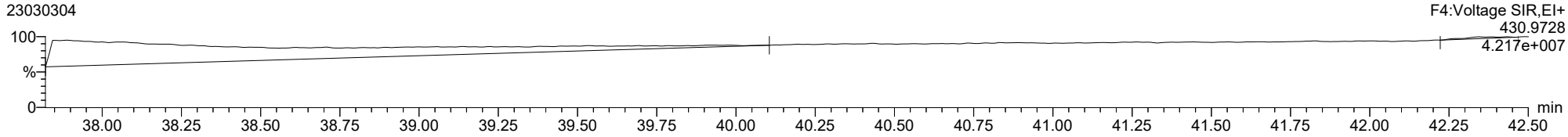


FUNCTION4 PFK



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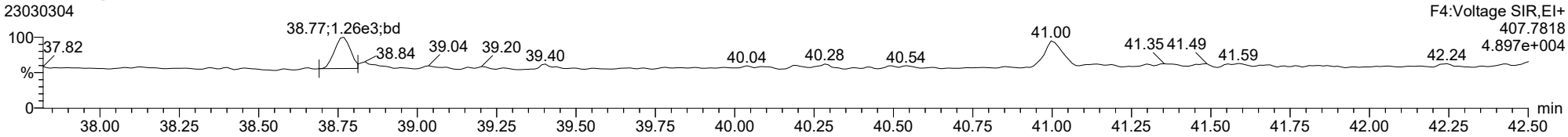

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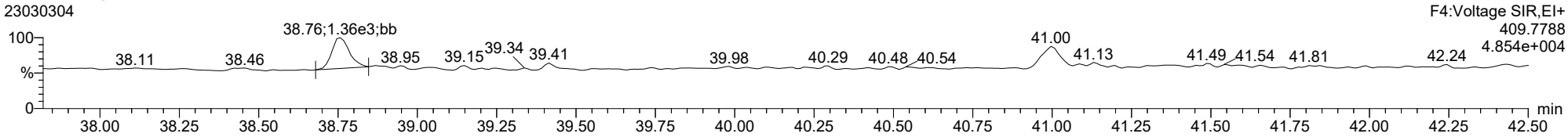

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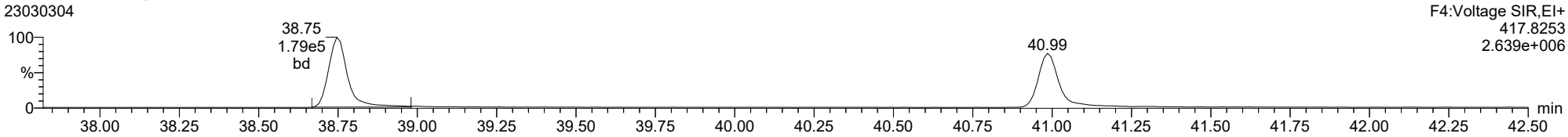

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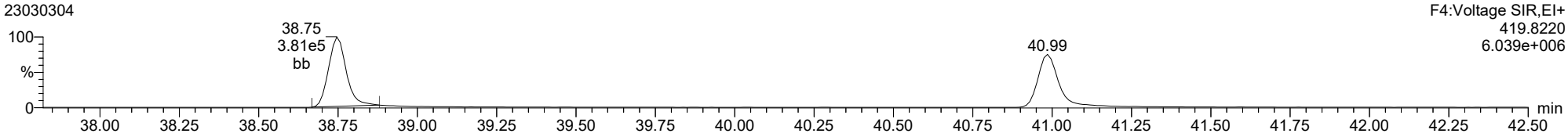

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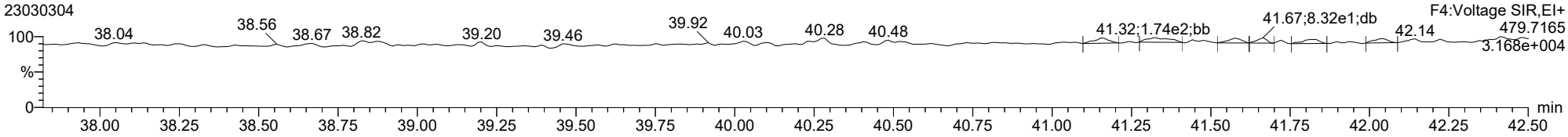

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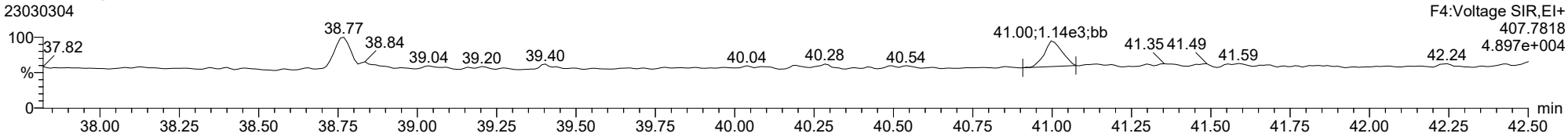

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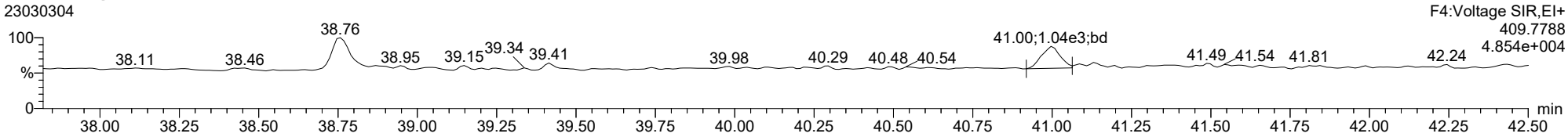

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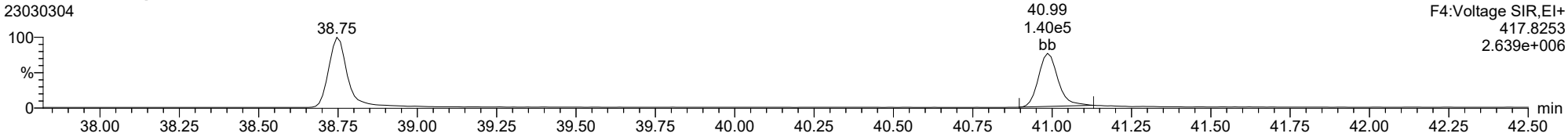

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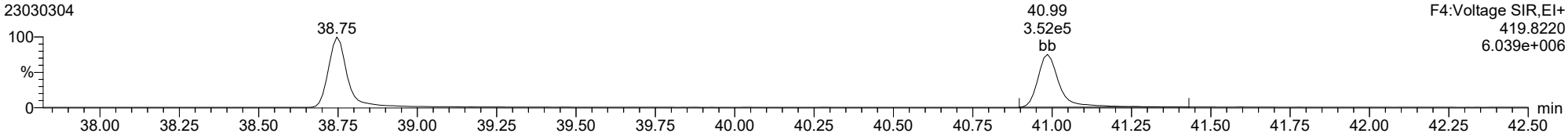
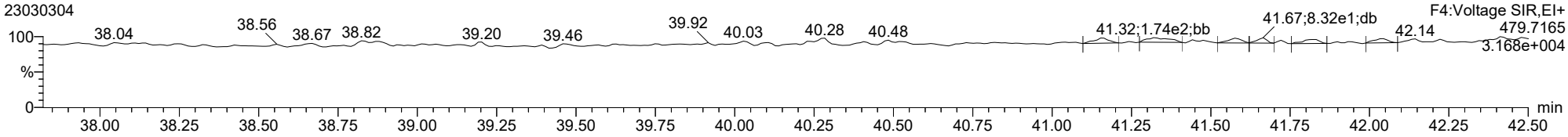


FUNCTION4 NCDPE



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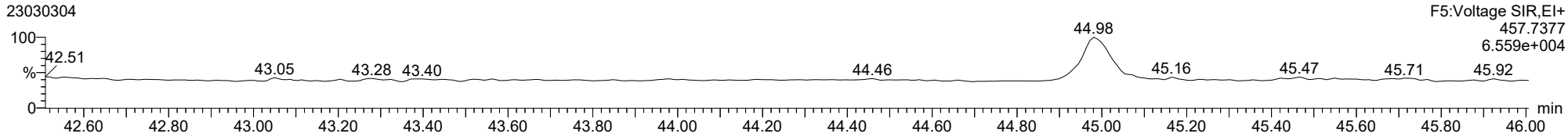
OCDD



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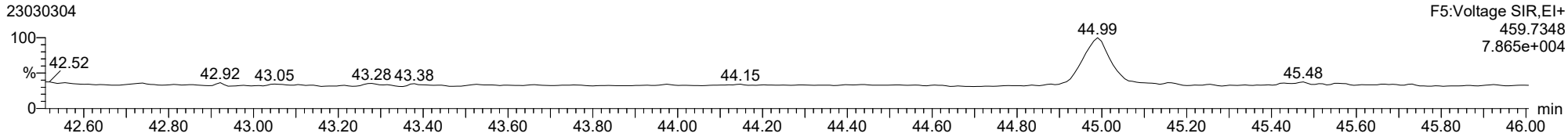

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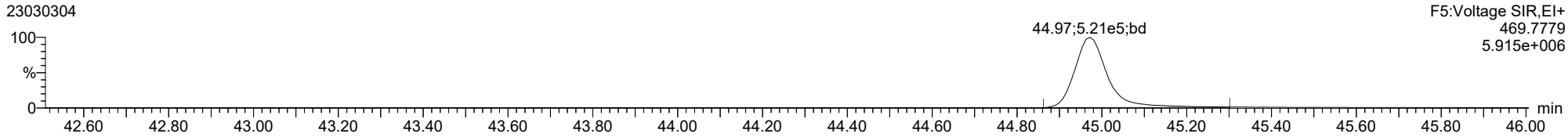

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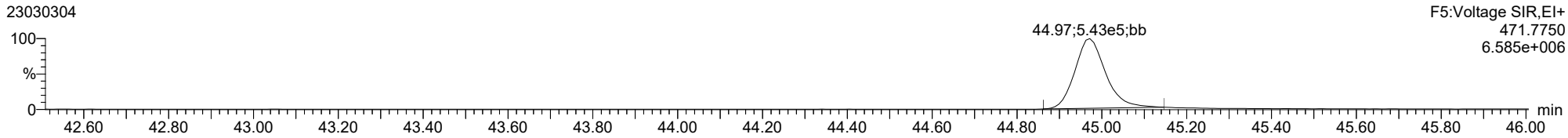
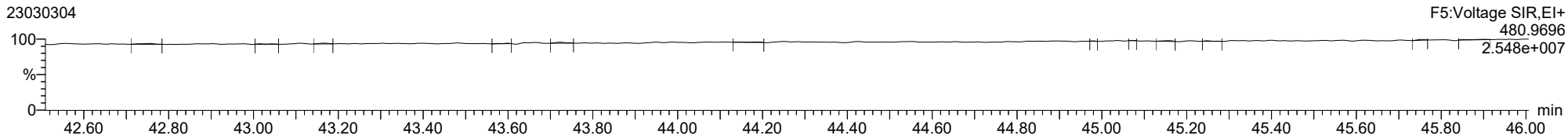


FUNCTION5 PFK



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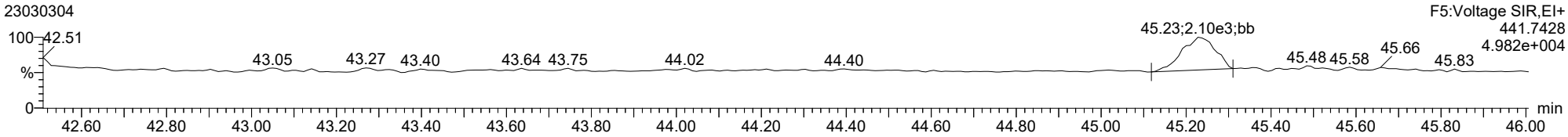
OCDF



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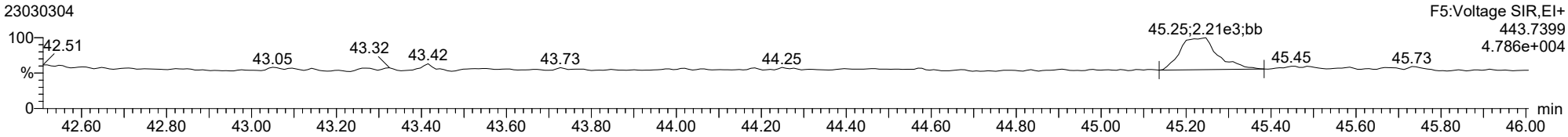
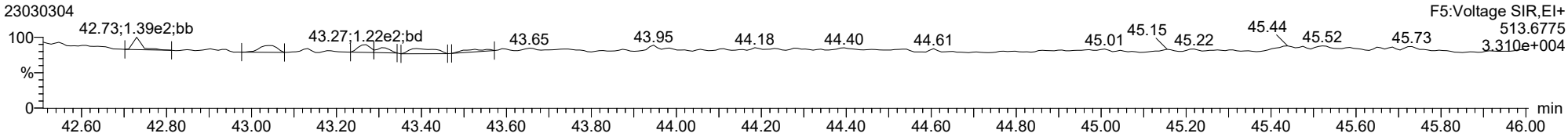


FUNCTION5 DCDPE



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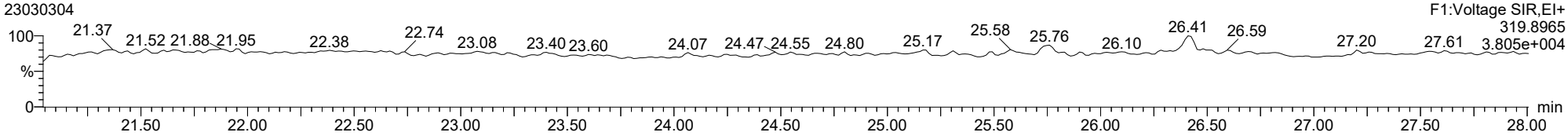
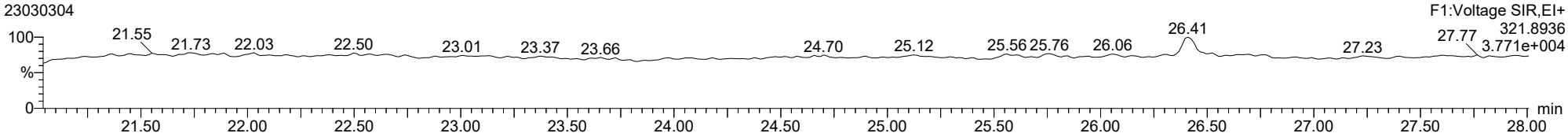
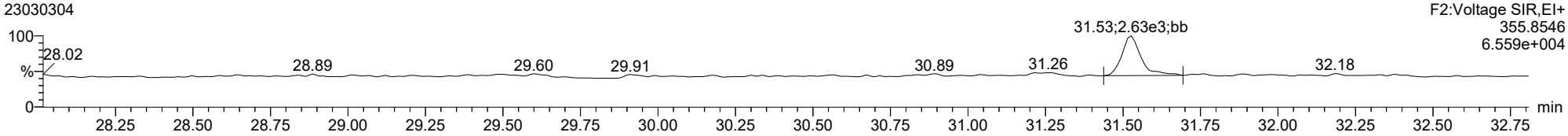
Total-tetradioxins



Total-tetradioxins



Total-pentadioxins



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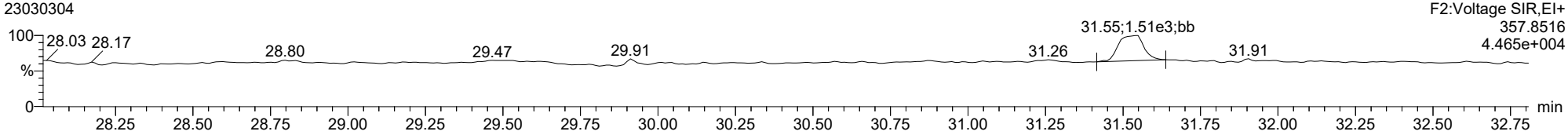

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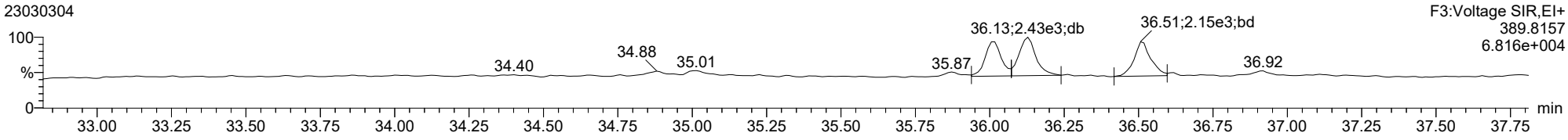
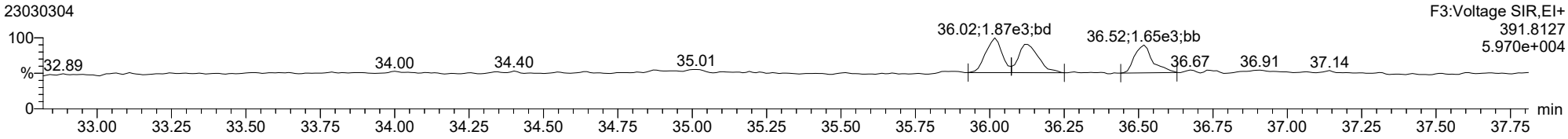
Total-hexadioxins



Total-hexadioxins



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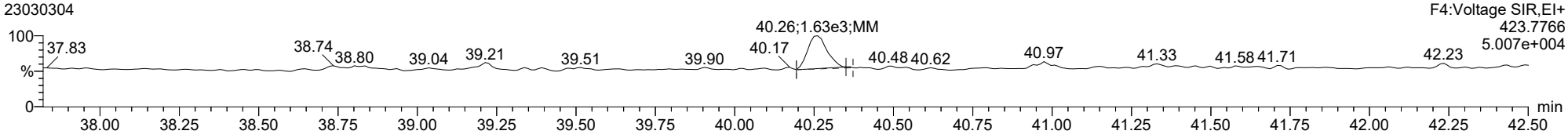
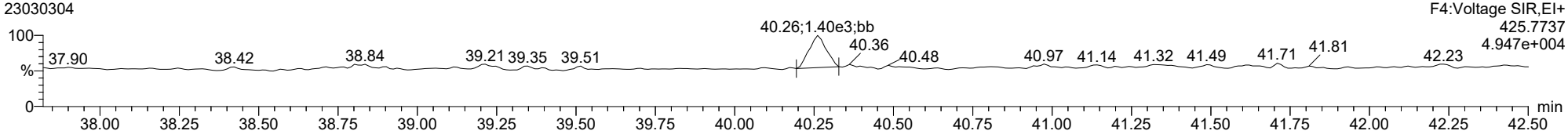


Total-heptadioxins



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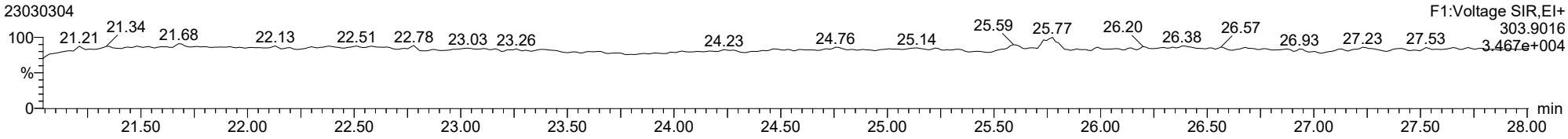
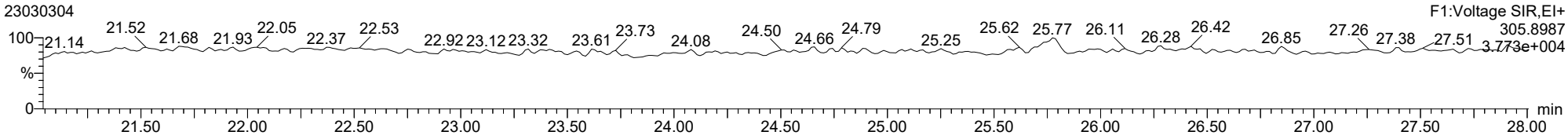
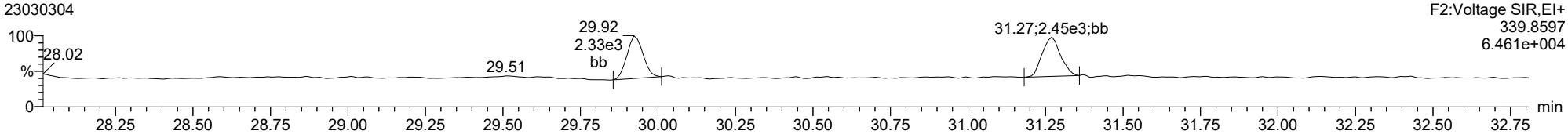
Total-tetrafurans



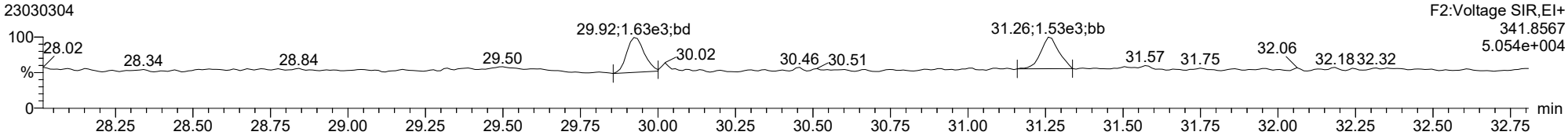
Total-tetrafurans



Total-pentafurans



Total-pentafurans



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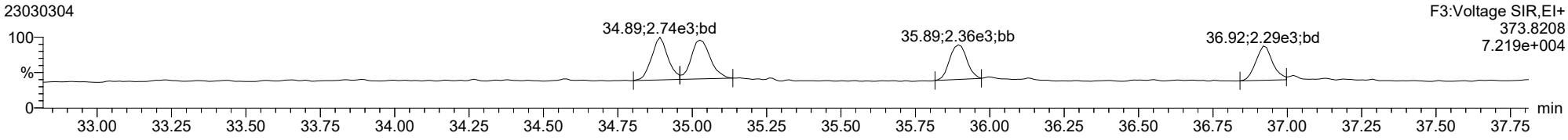
Total-hexafurans



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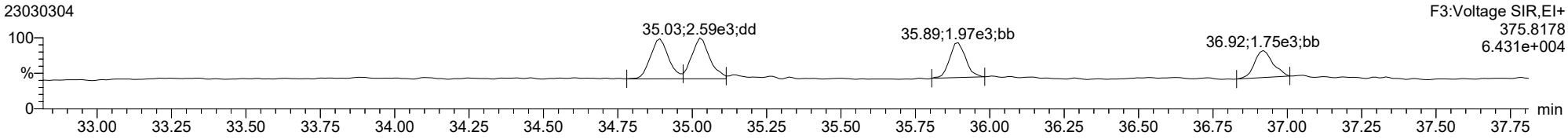

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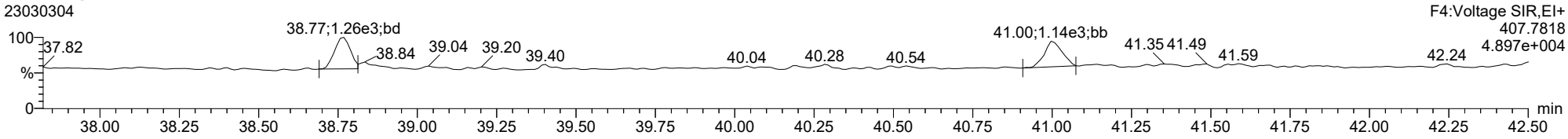
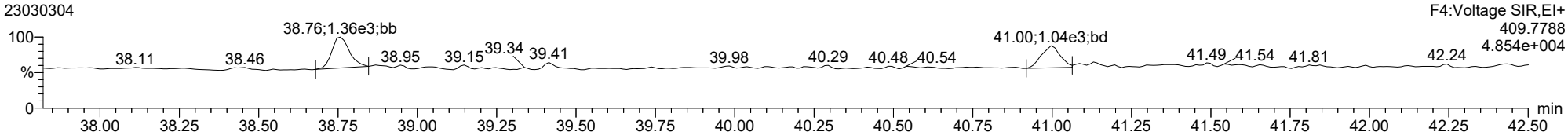


Total-heptafurans



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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	1.705e3	2.516e3	0.702	0.678	0.770	886	1799	2.34e4	3.87e4	26.4	21.5	NO	bb	MM	0.494
12378-PeCDF	29.933	1.000	5.914e3	4.099e3	0.679	1.442	1.550	1151	1276	9.10e4	6.48e4	79.1	50.8	NO	bb	bb	2.168
23478-PeCDF	31.270	1.000	7.974e3	4.958e3	0.786	1.608	1.550	1151	1276	1.22e5	6.97e4	106.1	54.6	NO	bb	bb	2.386
123478-HxCDF	34.891	1.000	1.063e4	7.851e3	1.166	1.354	1.240	1046	1170	1.58e5	1.17e5	151.4	100.1	NO	bd	bd	2.532
234678-HxCDF	35.894	1.000	1.057e4	7.802e3	1.140	1.354	1.240	1046	1170	1.51e5	1.18e5	143.9	100.6	NO	bb	bb	2.503
123678-HxCDF	35.036	1.001	1.161e4	8.676e3	1.091	1.339	1.240	1046	1170	1.53e5	1.27e5	146.1	108.8	NO	dd	dd	2.416
123789-HxCDF	36.930	1.001	8.482e3	6.693e3	1.137	1.267	1.240	1046	1170	1.18e5	8.92e4	112.7	76.2	NO	bd	bb	2.462
1234678-HpCDF	38.768	1.000	7.253e3	6.596e3	1.003	1.100	1.050	811	627	1.05e5	9.73e4	128.9	155.1	NO	bb	bb	2.680
1234789-HpCDF	41.008	1.000	5.116e3	5.234e3	0.953	0.978	1.050	811	627	7.22e4	7.17e4	89.0	114.3	NO	bb	bb	2.342
OCDF	45.237	1.006	5.981e3	6.798e3	0.778	0.880	0.890	709	890	6.92e4	8.13e4	97.6	91.3	NO	MM	bd	4.559
2378-TCDD	26.424	1.001	2.272e3	2.723e3	1.149	0.834	0.770	1286	820	3.35e4	3.73e4	26.0	45.5	NO	bb	bb	0.486
12378-PeCDD	31.538	1.001	7.831e3	5.061e3	1.022	1.548	1.550	902	618	1.00e5	7.05e4	111.4	114.0	NO	bb	bd	2.348
123478-HxCDD	36.016	1.000	7.381e3	5.875e3	0.996	1.256	1.240	655	843	1.17e5	9.68e4	178.2	114.9	NO	bd	bd	2.415
123678-HxCDD	36.139	1.001	9.152e3	7.340e3	1.001	1.247	1.240	655	843	1.26e5	9.90e4	192.8	117.4	NO	db	dd	2.494
123789-HxCDD	36.518	1.011	7.480e3	5.936e3	0.907	1.260	1.240	655	843	1.06e5	8.62e4	162.4	102.3	NO	bd	bd	2.440
1234678-HpCDD	40.272	1.001	6.283e3	5.832e3	1.039	1.077	1.050	694	917	8.98e4	8.16e4	129.4	89.0	NO	bb	bd	2.337
OCDD	44.999	1.000	8.578e3	9.676e3	0.920	0.887	0.890	635	634	9.84e4	1.12e5	154.9	175.9	NO	bd	bb	5.505
13C-2378-TCDF	25.760	1.007	5.230e5	6.960e5	1.620	0.752	0.770	2566	1723	7.68e6	1.02e7	2994.2	5911.4	NO	bb	bb	98.043
13C-12378-PeCDF	29.922	1.169	4.082e5	2.718e5	1.240	1.502	1.550	3092	2294	5.44e6	3.64e6	1758.1	1584.9	NO	bd	bb	71.437
13C-23478-PeCDF	31.259	1.222	4.106e5	2.788e5	1.118	1.473	1.550	3092	2294	5.91e6	4.02e6	1912.5	1751.3	NO	bb	bb	80.373
13C-123478-HxCDF	34.880	0.955	2.117e5	4.140e5	1.168	0.511	0.510	1778	2186	3.18e6	6.21e6	1786.5	2841.3	NO	bd	bd	93.801
13C-123678-HxCDF	35.014	0.959	2.754e5	4.947e5	1.386	0.557	0.510	1778	2186	3.40e6	6.43e6	1911.3	2941.0	NO	db	db	97.276
13C-234678-HxCDF	35.882	0.983	2.122e5	4.318e5	1.129	0.491	0.510	1778	2186	3.04e6	5.98e6	1709.4	2734.1	NO	bb	bd	99.880
13C-123789-HxCDF	36.908	1.011	1.853e5	3.568e5	0.932	0.519	0.510	1778	2186	2.62e6	5.01e6	1471.0	2293.6	NO	bb	bb	101.893
13C-1234678-HpCDF	38.757	1.062	1.579e5	3.573e5	0.895	0.442	0.440	2049	3174	2.36e6	5.45e6	1151.3	1718.3	NO	bb	bb	100.794
13C-1234789-HpCDF	40.997	1.123	1.372e5	3.264e5	0.770	0.420	0.440	2049	3174	1.74e6	3.92e6	851.0	1236.7	NO	bd	bd	105.482
13C-1234-TCDD	25.591	0.000	3.429e5	4.245e5	1.000	0.808	0.770	2519	1748	5.22e6	6.49e6	2072.6	3712.2	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	3.982e5	4.964e5	1.152	0.802	0.770	2519	1748	5.51e6	6.93e6	2188.2	3962.8	NO	bb	bb	101.152
13C-12378-PeCDD	31.515	1.232	3.242e5	2.131e5	0.829	1.521	1.550	1586	877	4.46e6	2.78e6	2809.5	3168.1	NO	bb	bd	84.489
13C-123478-HxCDD	36.005	0.986	3.100e5	2.413e5	0.995	1.285	1.240	2517	1649	4.83e6	3.77e6	1920.9	2283.3	NO	bd	bd	97.050
13C-123678-HxCDD	36.117	0.989	3.700e5	2.908e5	1.157	1.273	1.240	2517	1649	5.06e6	4.03e6	2012.2	2442.3	NO	db	db	100.049
13C-1234678-HpCDD	40.250	1.102	2.556e5	2.433e5	0.840	1.051	1.050	2183	1602	3.48e6	3.29e6	1594.9	2052.3	NO	bb	bb	103.999
13C-OCDD	44.980	1.232	3.386e5	3.823e5	0.767	0.886	0.890	3187	1733	3.80e6	4.27e6	1193.7	2462.5	NO	bb	bb	164.498
13C-123789-HxCDD	36.507	0.000	3.194e5	2.515e5	1.000	1.270	1.240	2517	1649	4.46e6	3.59e6	1770.5	2177.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	5.065e3		1.288			2040		7.28e4		35.7			bb		0.513

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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	886	1799								
1289-TCDF					0.678		0.770	886	1799								
13468-PECDF					1.246		1.550	811	1221								
12389-PECDF					0.496		1.550	1151	1276								
123468-HXCDF					1.169		1.240	1046	1170								
1368-TCDD					1.015		0.770	1286	820								
1289-TCDD					0.909		0.770	1286	820								
12479-PECDD					2.301		1.550	902	618								
12389-PECDD					1.184		1.550	902	618								
124679-HXCDD					1.115		1.240	655	843								
1234679-HPCDD					1.137		1.050	694	917								
Total-tetrafurans			1.705e3		0.727			886		2.34e4							0.494
Total-penta1			0.000e0					811		0.00e0							
Total-pentafurans			1.389e4		0.654			1151		2.13e5							4.554
Total-hexafurans			4.139e4		1.141			1046		5.82e5							9.938
Total-heptafurans			1.237e4		0.978			811		1.77e5							5.023
Total-Furans			7.533e4		0.922			886		1.06e6							24.566
Total-tetradioxins			2.272e3		1.024			1286		3.35e4							0.486
Total-pentadioxins			7.831e3		1.502			902		1.00e5							2.348
Total-hexadioxins			2.401e4		1.005			655		3.49e5							7.349
Total-heptadioxins			6.283e3		1.088			694		8.98e4							2.337
Total-Dioxins			4.898e4		1.130			1286		6.72e5							18.025
Total-TEQ			1.243e5					1286		1.74e6							42.592
FUNCTION1 PFK			0.000e0					501375		0.00e0							
FUNCTION2 PFK			7.687e6					300953		7.99e6							0.000
FUNCTION3 PFK			1.081e7					473463		1.95e7							0.000
FUNCTION4 PFK			1.035e7					332160		2.87e6							
FUNCTION5 PFK			6.101e5					195111		8.38e5							
FUNCTION1 HXCD...			6.739e2					611		6.36e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			7.361e2					923		1.83e4							0.000
FUNCTION3 OCDPE			2.008e2					596		2.61e3							0.000
FUNCTION4 NCDPE			9.397e1					539		1.40e3							0.000
FUNCTION5 DCDPE			1.677e2					561		3.39e3							0.000

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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
2	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
3	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
4	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
5	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
2	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168
3	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494
4	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
5	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
6	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
7	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
8	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532
9	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
10	OCDF	45.24	5.981e3	6.798e3	0.778	0.88	0.89	97.6	YES	NO	MM	bd	4.559
11	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
2	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
3	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486
2	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
3	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
4	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415
5	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348
6	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337
7	OCDD	45.00	8.578e3	9.676e3	0.920	0.89	0.89	154.9	YES	NO	bd	bb	5.505

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168
3	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494
4	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
5	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
6	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
7	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
8	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532
9	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
10	OCDF	45.24	5.981e3	6.798e3	0.778	0.88	0.89	97.6	YES	NO	MM	bd	4.559
11	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342
12	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486
13	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
14	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
15	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415
16	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348
17	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337
18	OCDD	45.00	8.578e3	9.676e3	0.920	0.89	0.89	154.9	YES	NO	bd	bb	5.505

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.41	6.929e5					4.3	YES		bb		0.000
2	FUNCTION2 PFK	28.05	6.994e6					22.3	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.60	1.788e4					1.3	NO		bb		0.000
2	FUNCTION3 PFK	36.61	1.585e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	36.53	6.942e3					0.8	NO		bb		0.000
4	FUNCTION3 PFK	33.99	9.502e3					0.9	NO		bb		0.000
5	FUNCTION3 PFK	33.78	4.298e6					7.0	YES		db		0.000
6	FUNCTION3 PFK	33.15	6.467e6					29.8	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.85	1.035e7					8.6	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.97	6.101e5					4.3	YES		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.27	8.033e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	24.98	2.706e2					3.4	YES		bb		0.000
3	FUNCTION1 HXCD...	22.17	1.286e2					2.0	NO		bb		0.000
4	FUNCTION1 HXCD...	21.47	8.089e1					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	21.17	1.135e2					1.3	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.66	1.045e2					4.3	YES		db		0.000
2	FUNCTION2 HPCD...	32.58	1.134e2					3.0	NO		bd		0.000
3	FUNCTION2 HPCD...	31.88	7.272e1					1.9	NO		bb		0.000
4	FUNCTION2 HPCD...	30.71	7.070e1					1.8	NO		bb		0.000
5	FUNCTION2 HPCD...	30.13	1.134e2					2.5	NO		bb		0.000
6	FUNCTION2 HPCD...	28.92	7.142e1					2.0	NO		bb		0.000
7	FUNCTION2 HPCD...	28.66	9.983e1					2.2	NO		bb		0.000
8	FUNCTION2 HPCD...	28.24	9.016e1					2.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.50	2.008e2					4.4	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.59	9.397e1					2.6	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.72	7.355e1					2.5	NO		bb		0.000
2	FUNCTION5 DCDPE	44.30	9.416e1					3.6	YES		bb		0.000

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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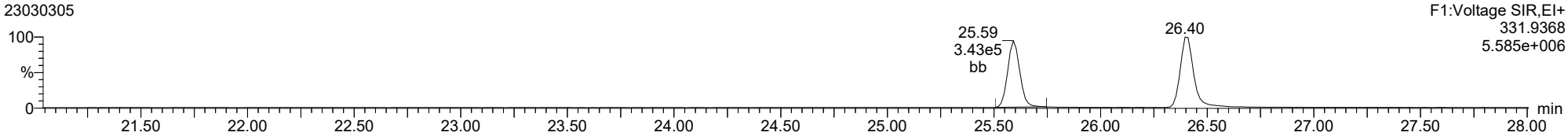

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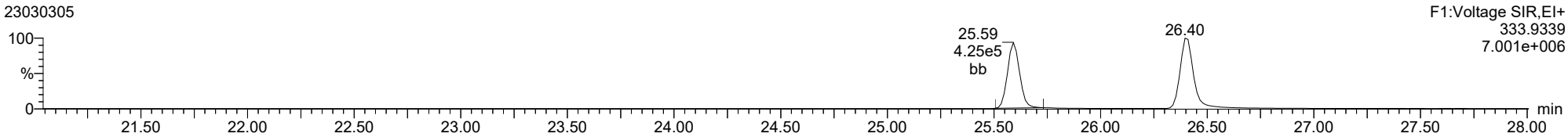

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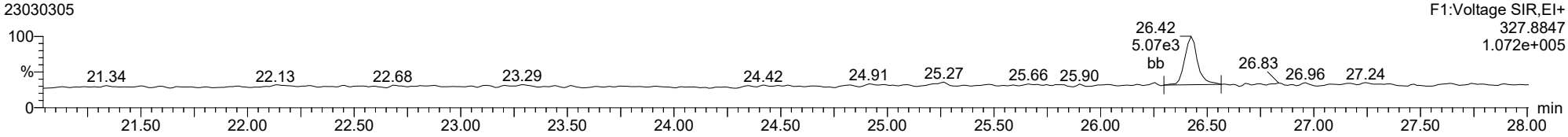

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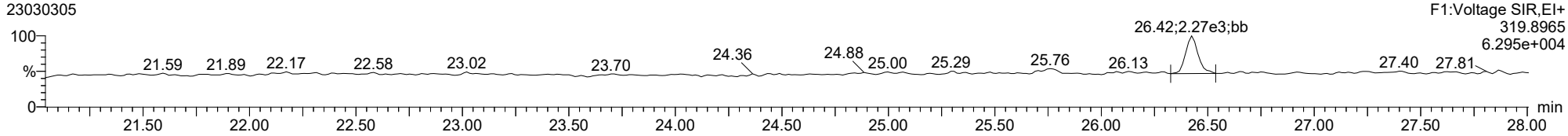

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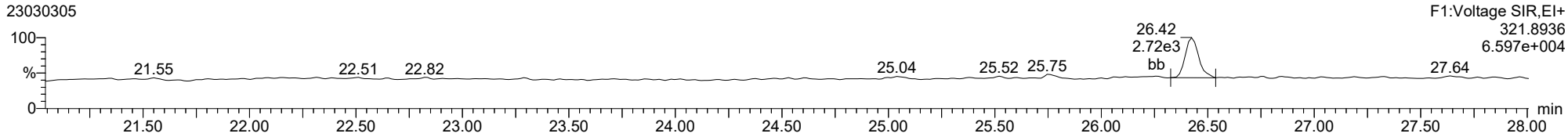

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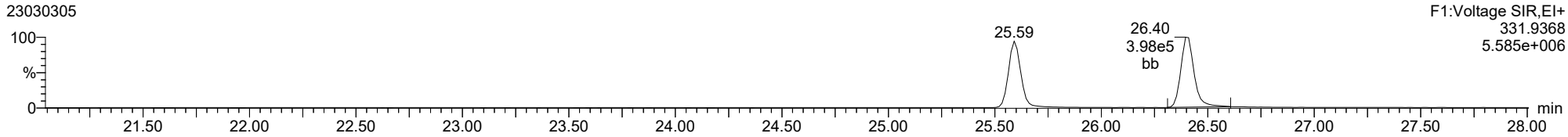

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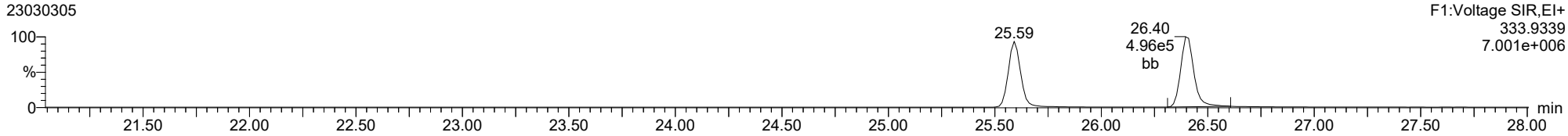

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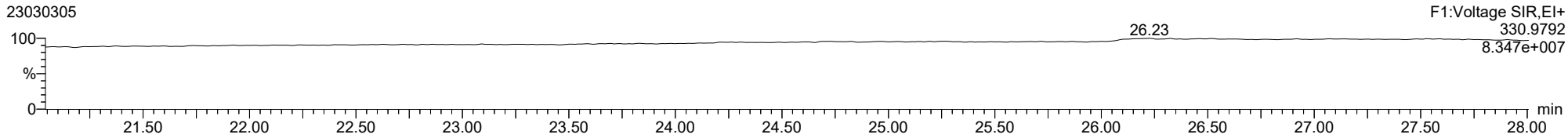

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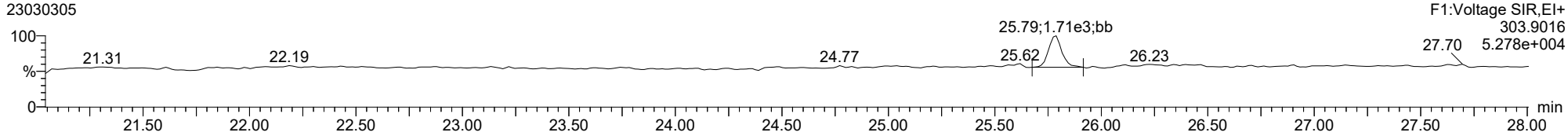

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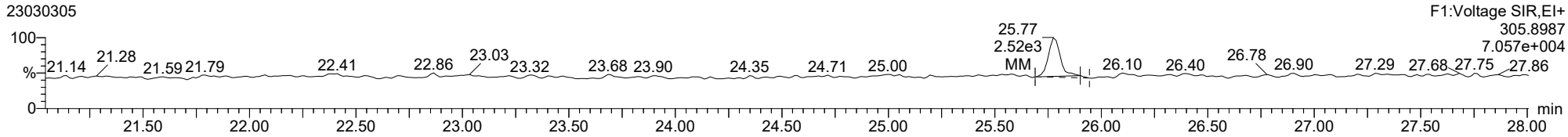

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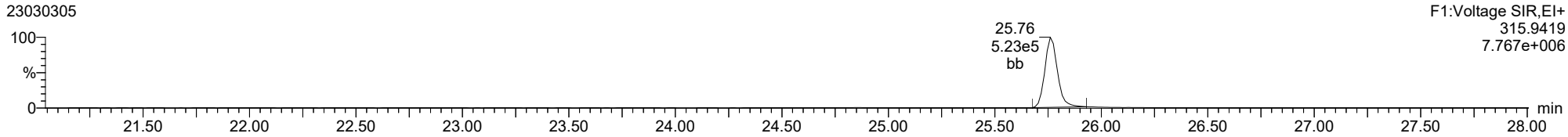

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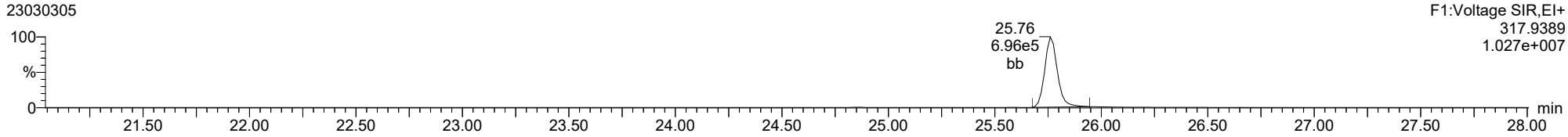

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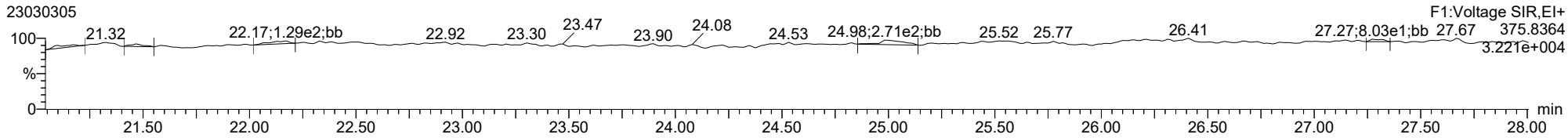

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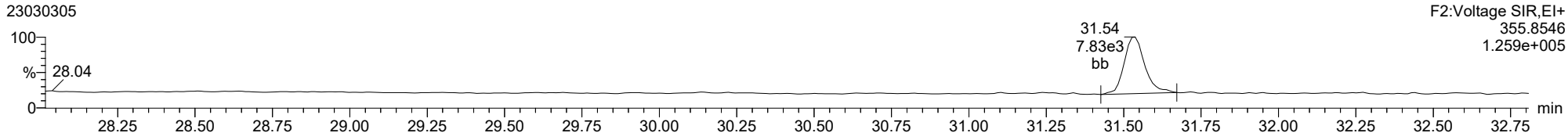
12378-PeCDD



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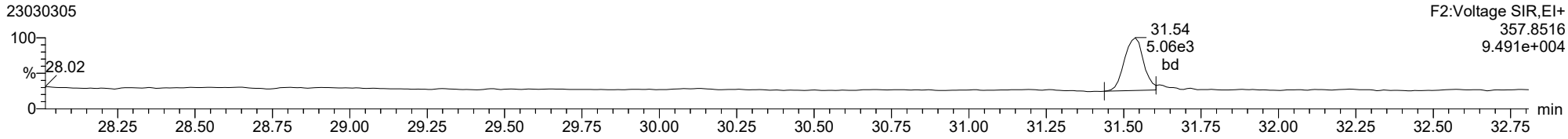

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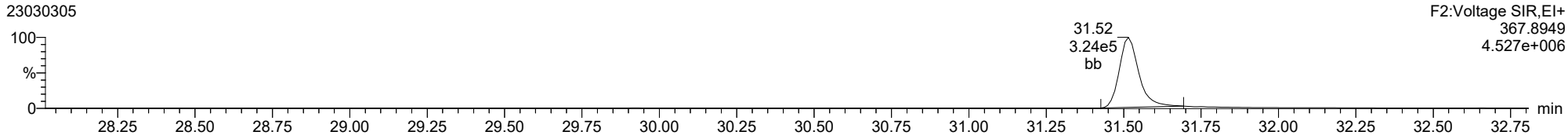

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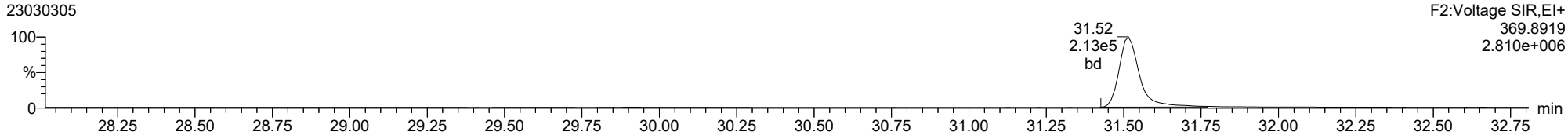

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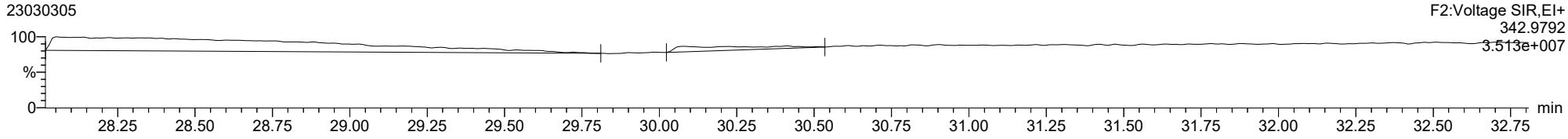

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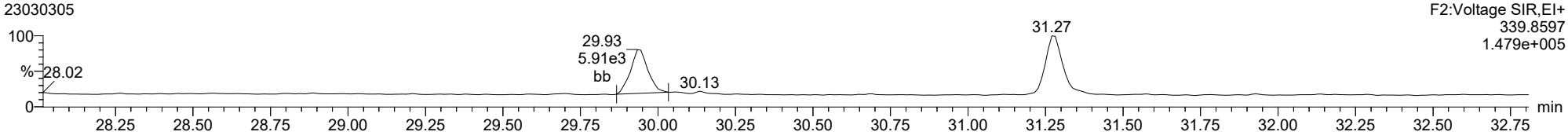

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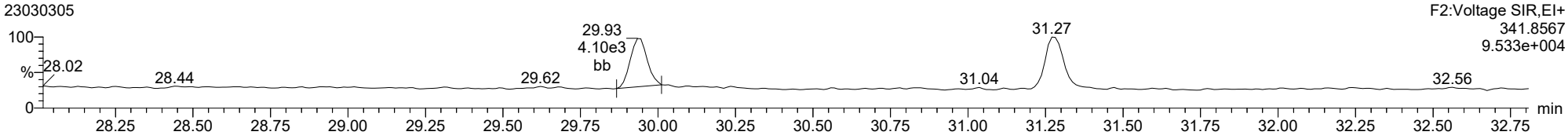

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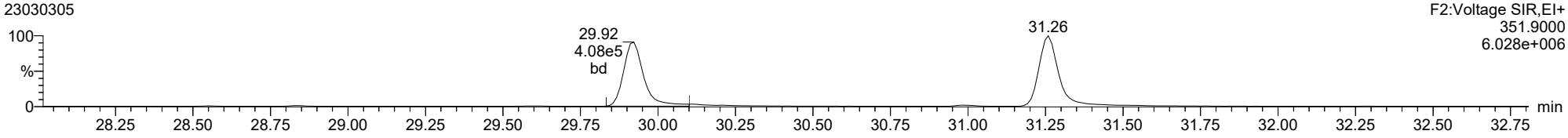

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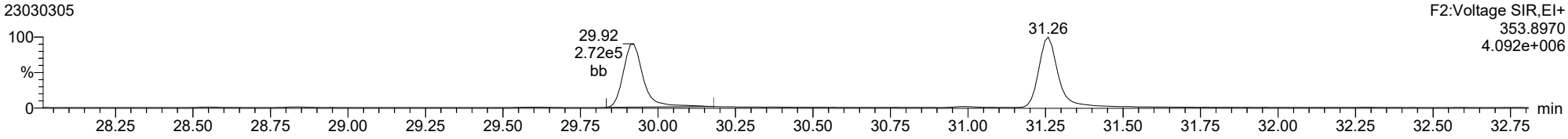

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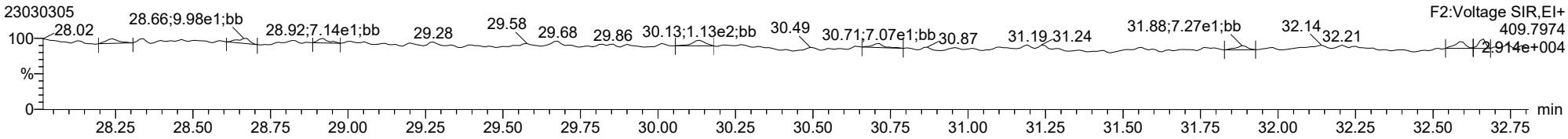

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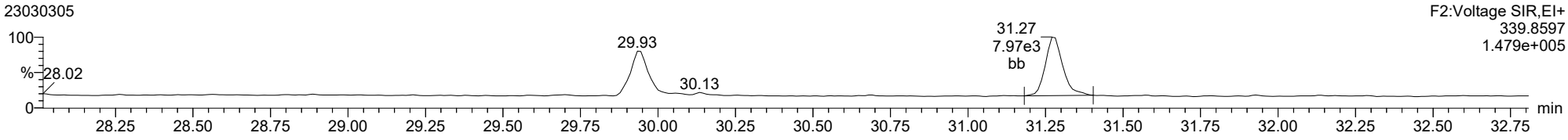
23478-PeCDF



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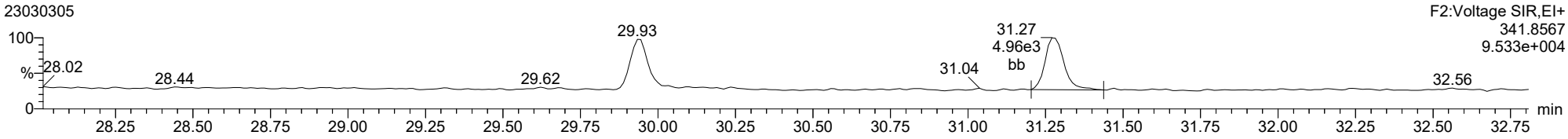

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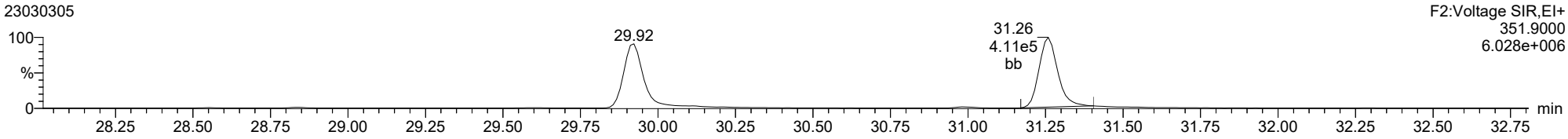

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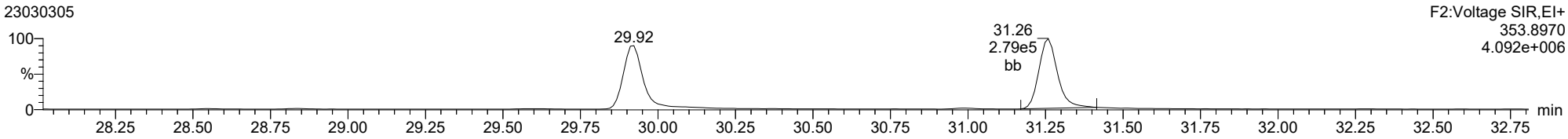

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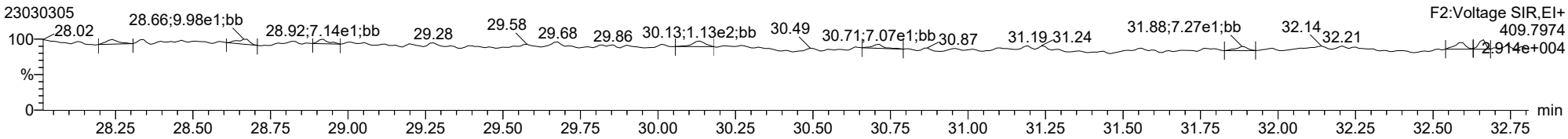

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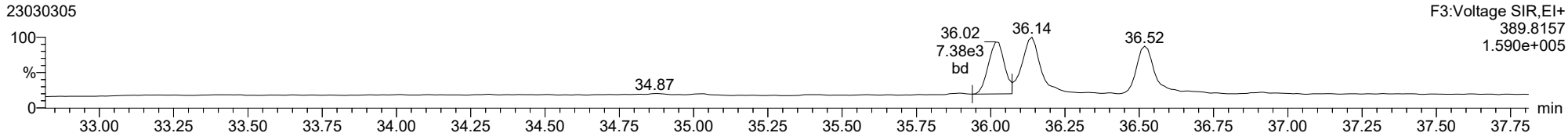

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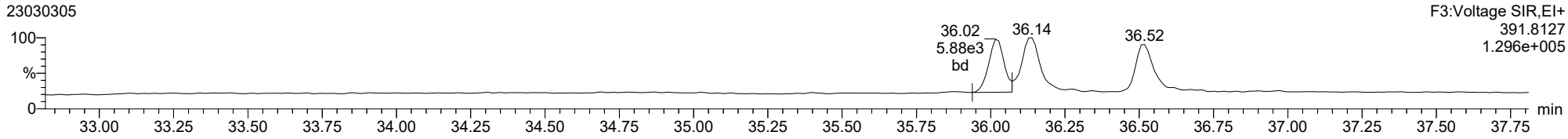

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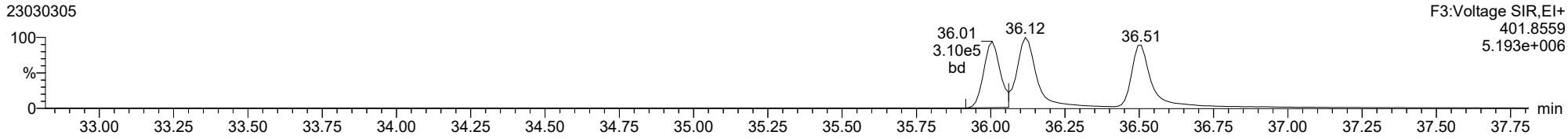

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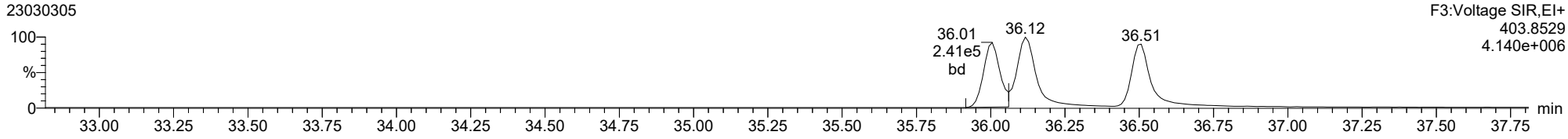

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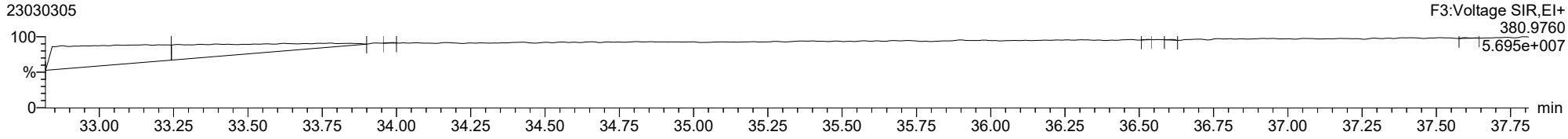

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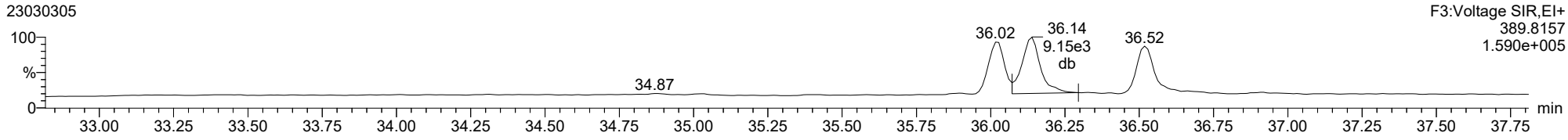

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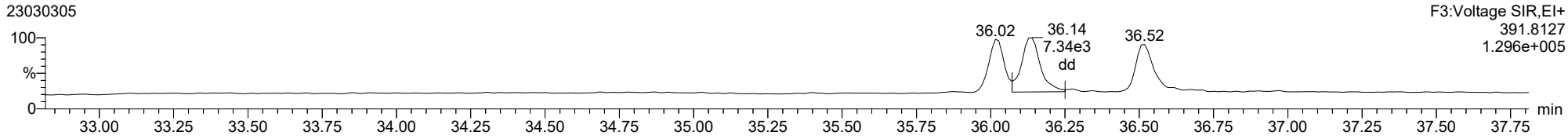

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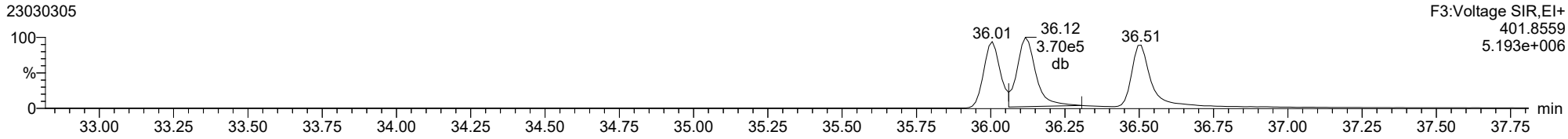

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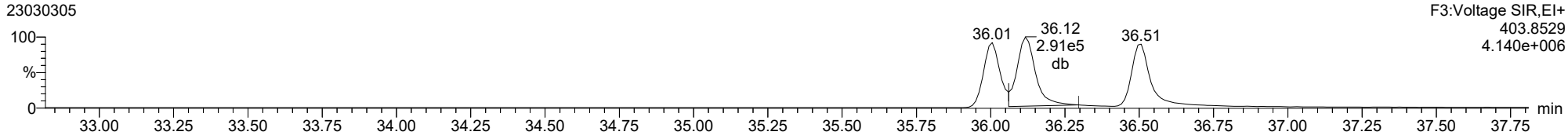

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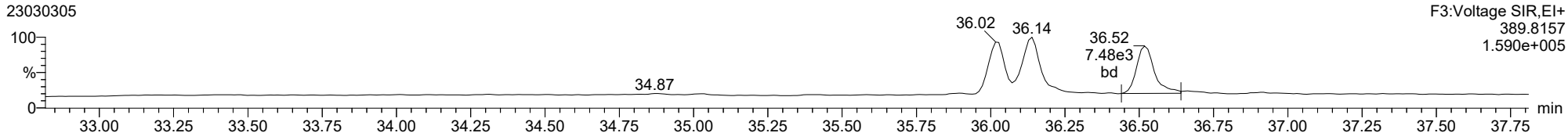

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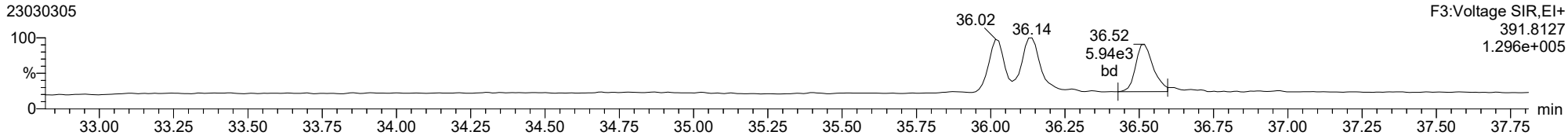

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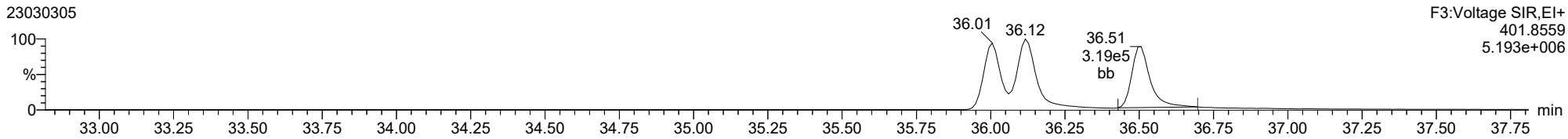

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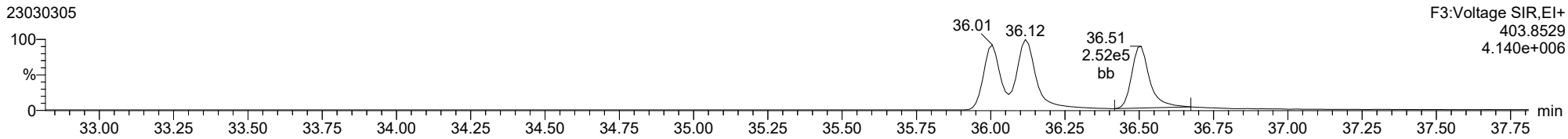

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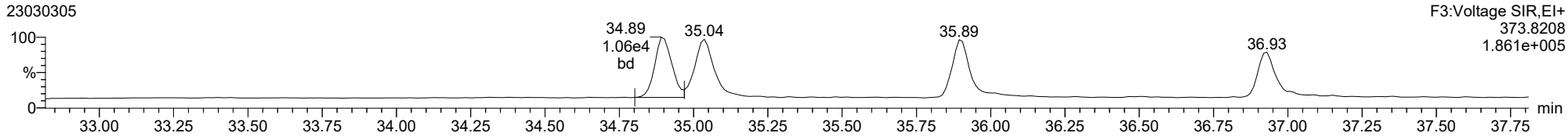

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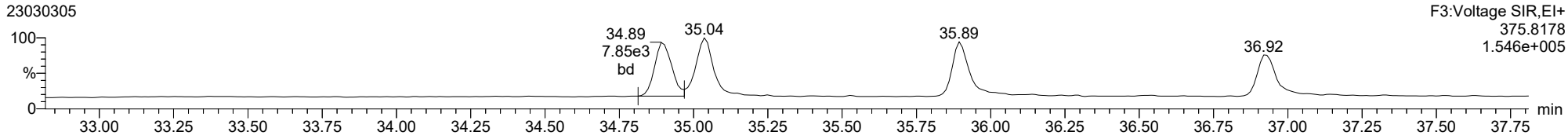

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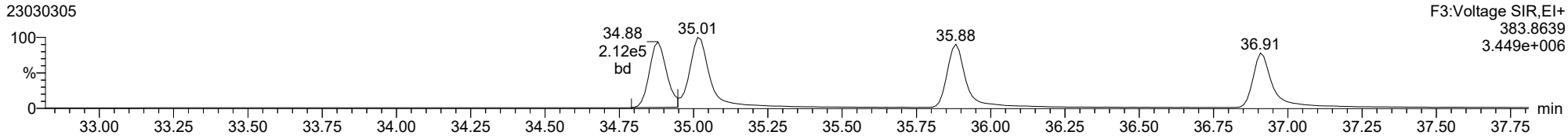

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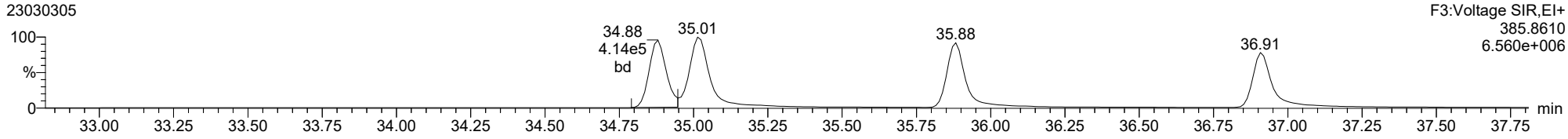

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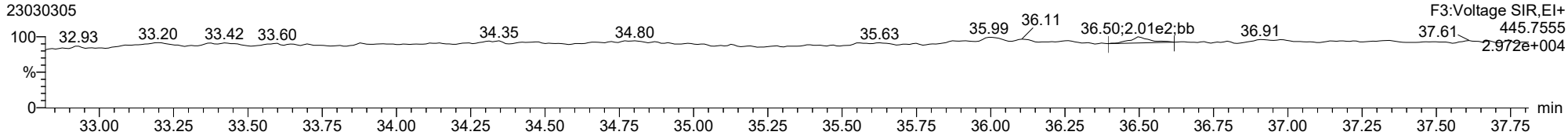

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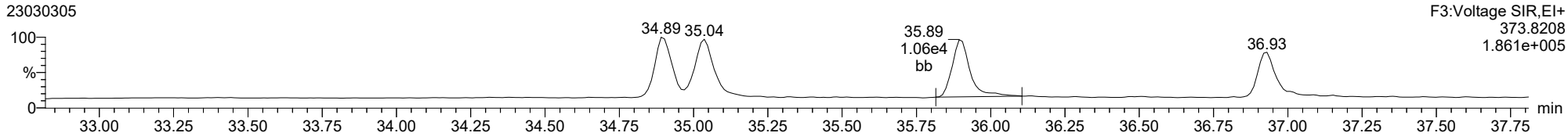
234678-HxCDF



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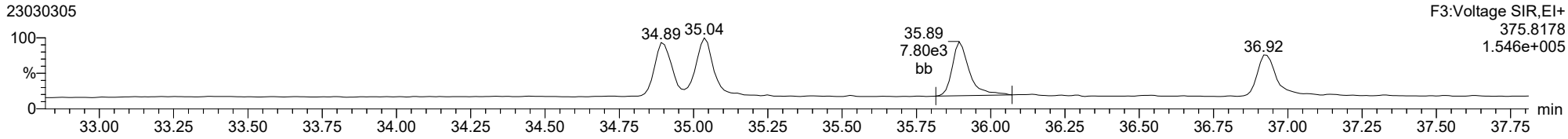

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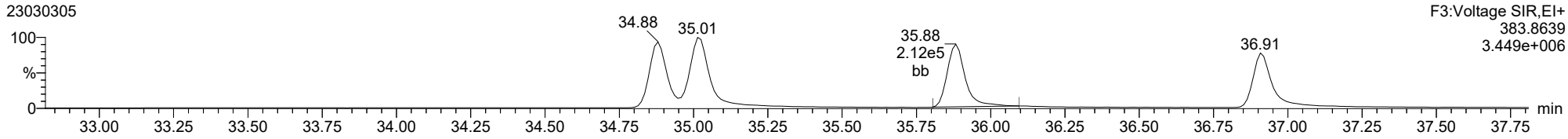

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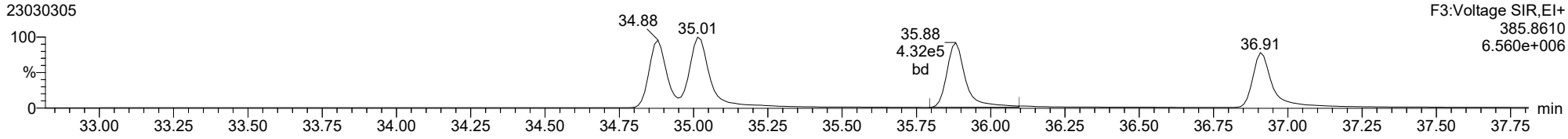

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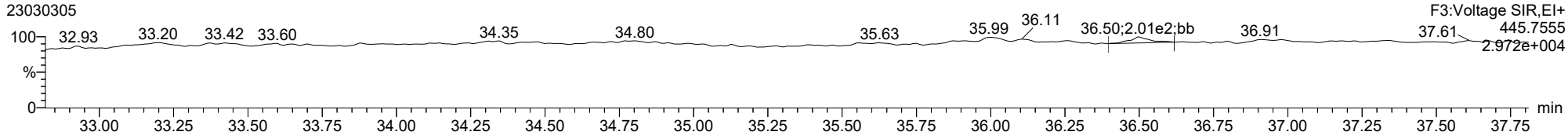

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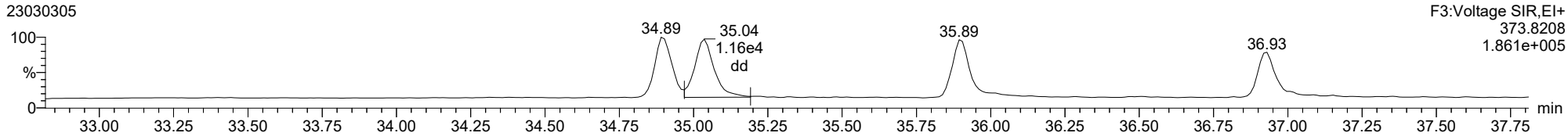

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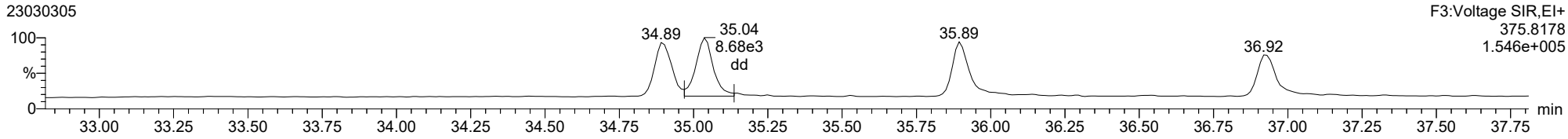

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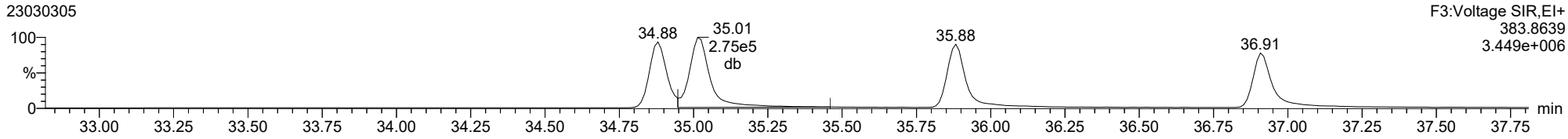

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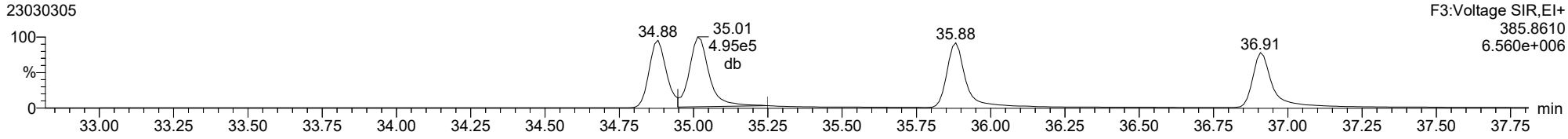

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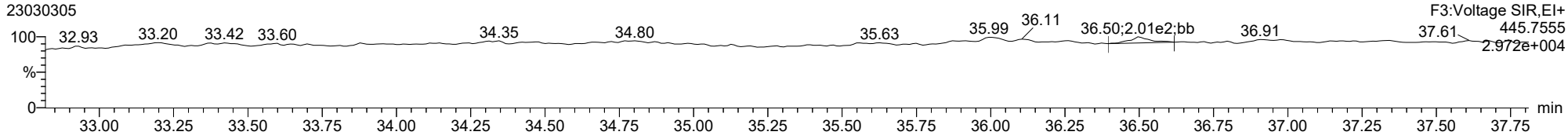

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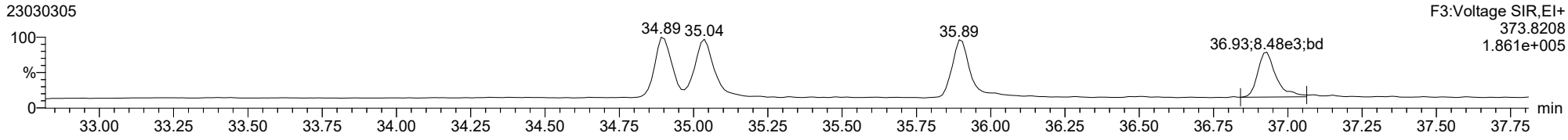

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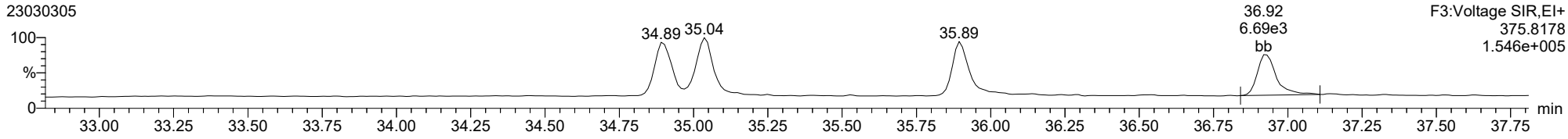

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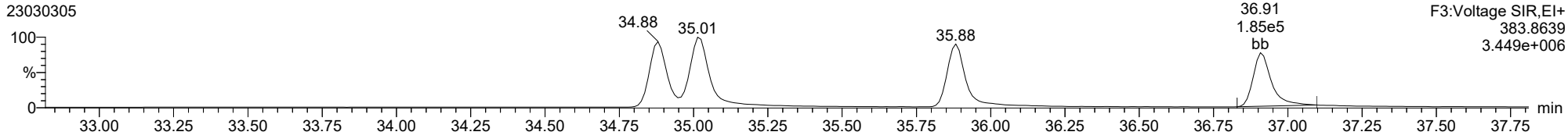

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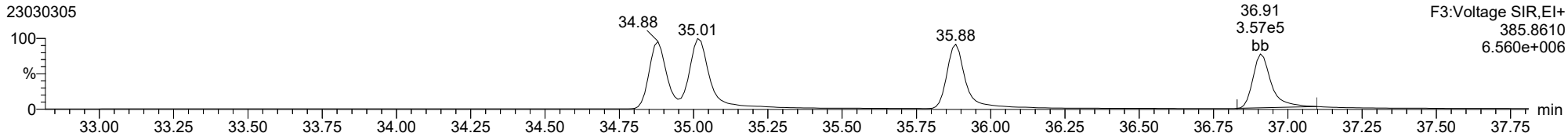
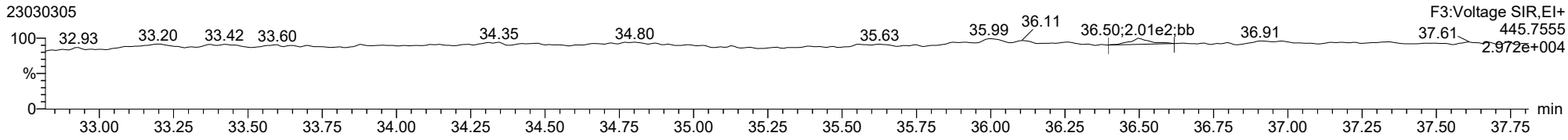


FUNCTION3 OCDPE



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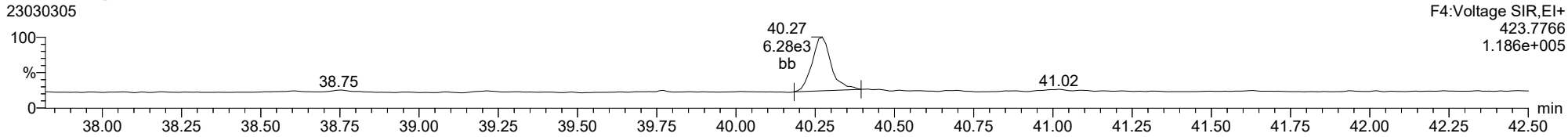
1234678-HpCDD



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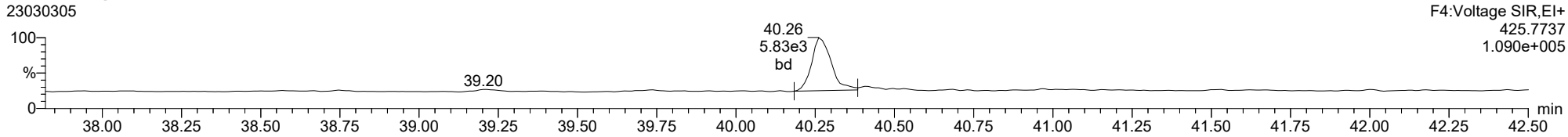

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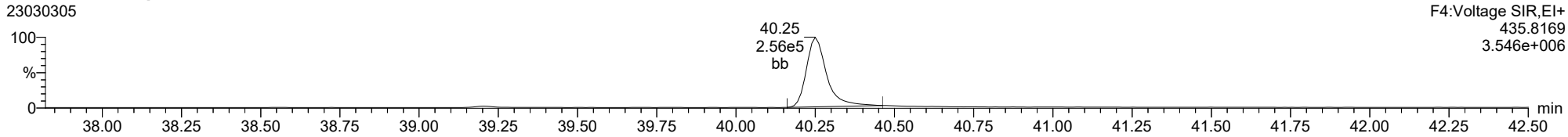

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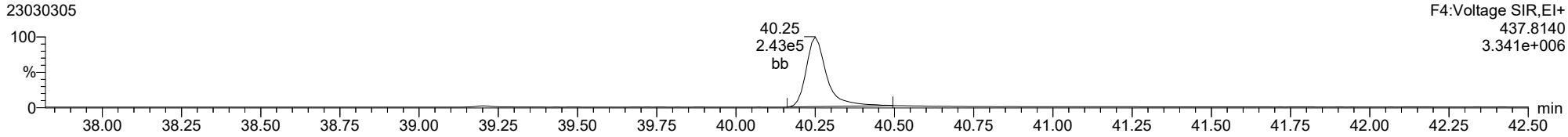
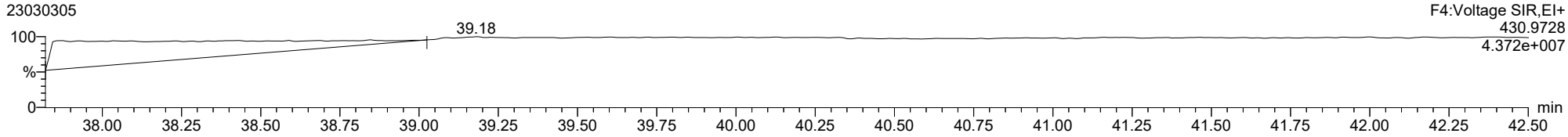


FUNCTION4 PFK



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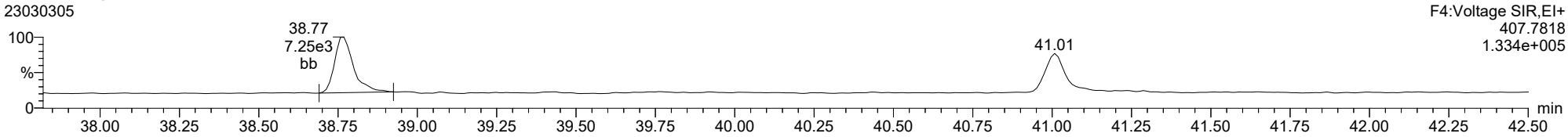

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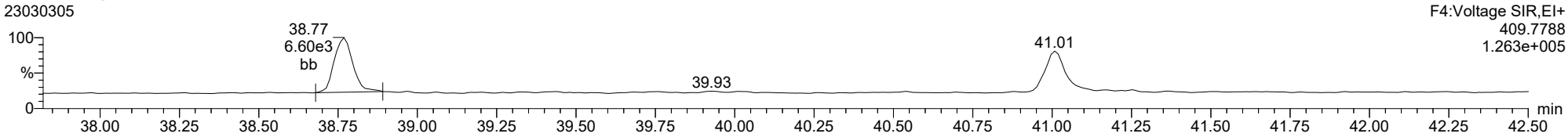

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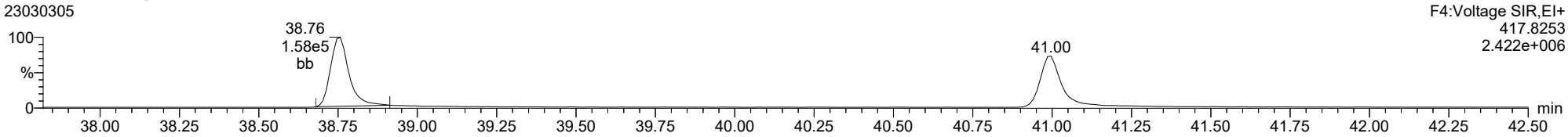

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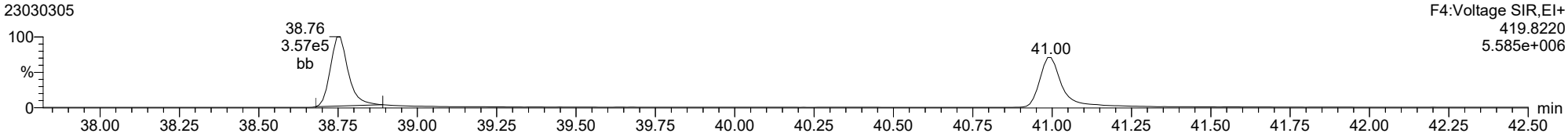
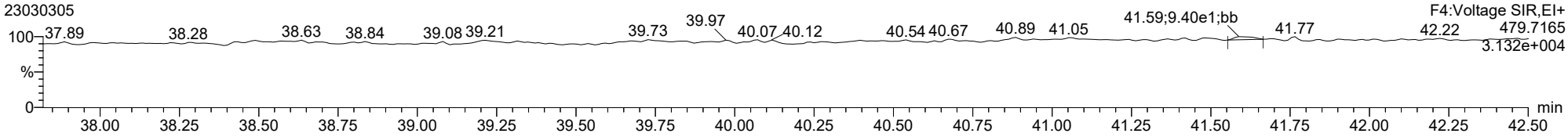


FUNCTION4 NCDPE



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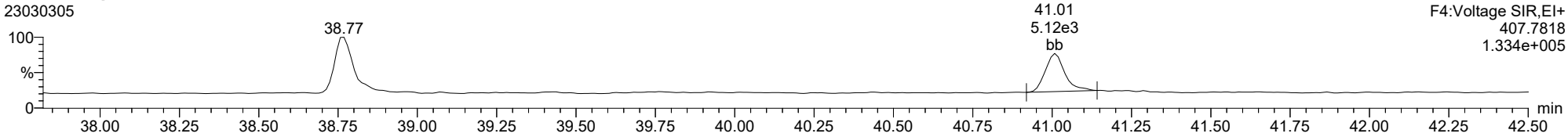

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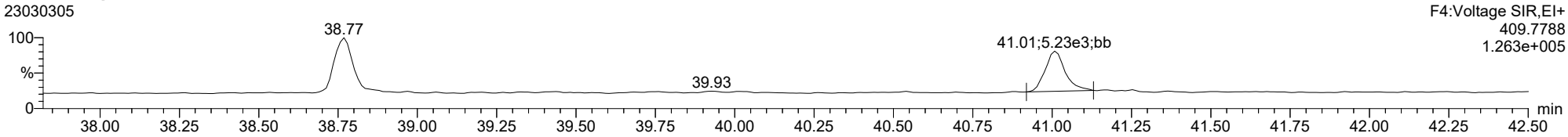

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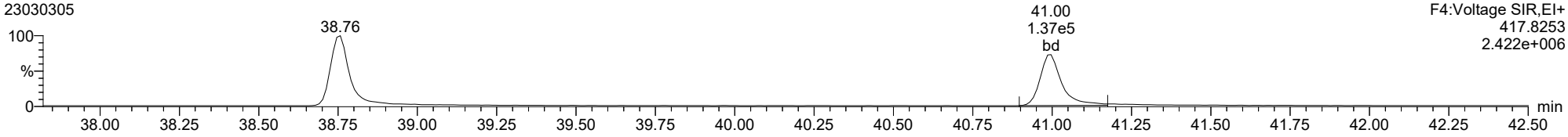

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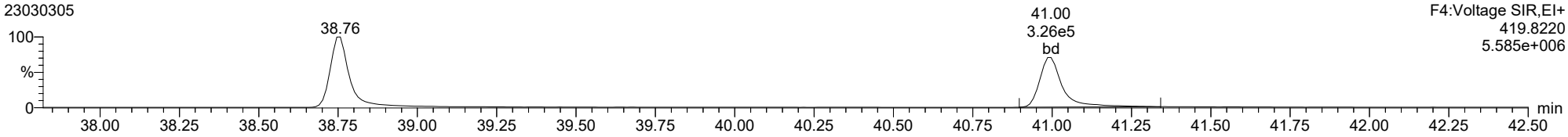
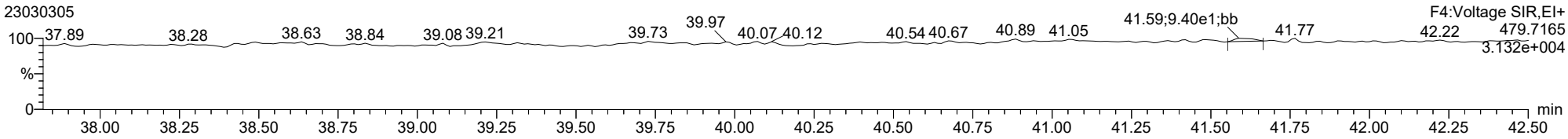


FUNCTION4 NCDPE



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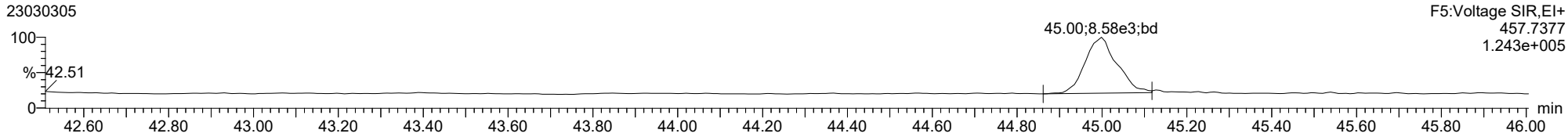

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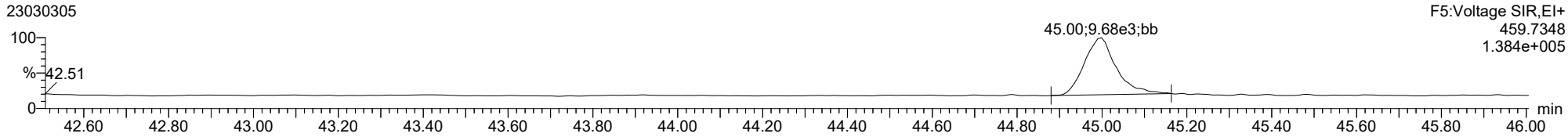

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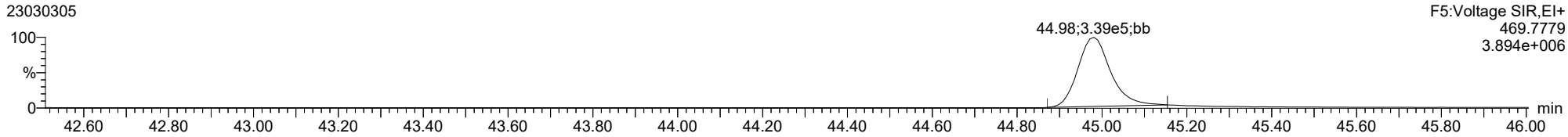

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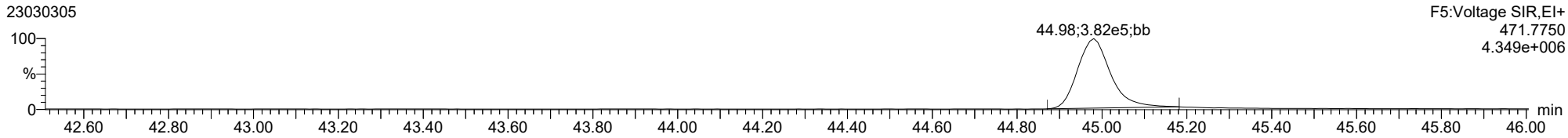
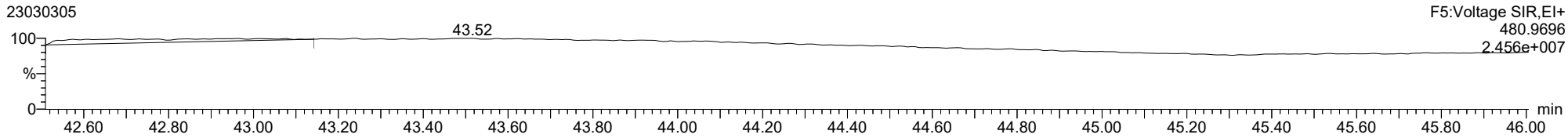


FUNCTION5 PFK



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Printed: Monday, March 06, 2023 11:34:10 Pacific Standard Time

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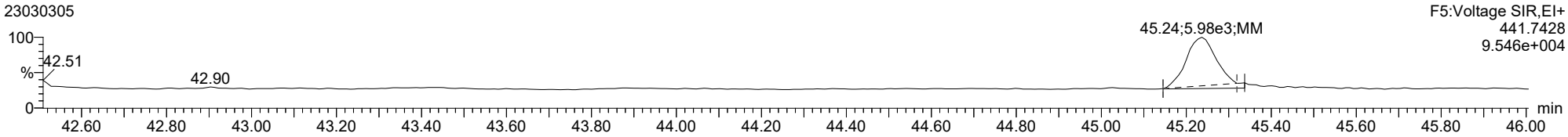
OCDF



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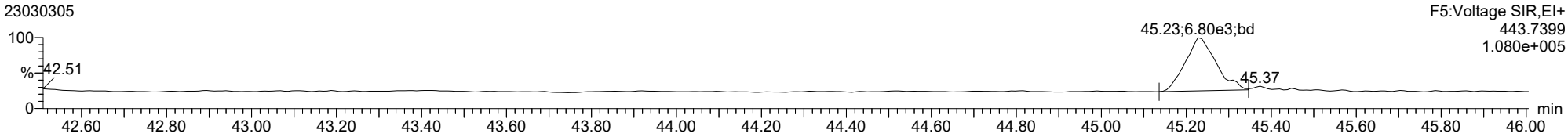
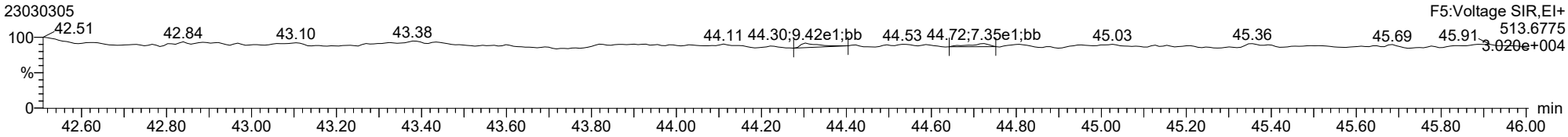


FUNCTION5 DCDPE



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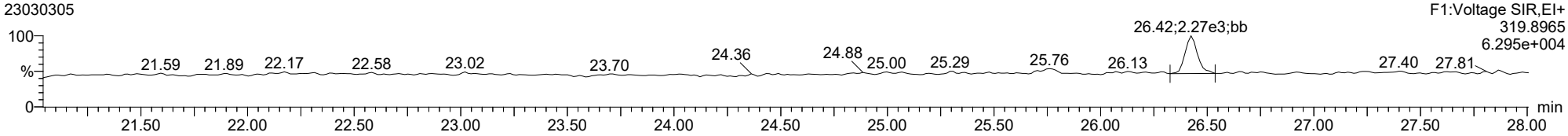
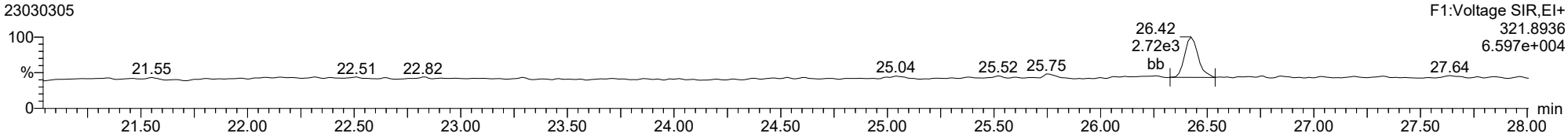


Total-tetradioxins



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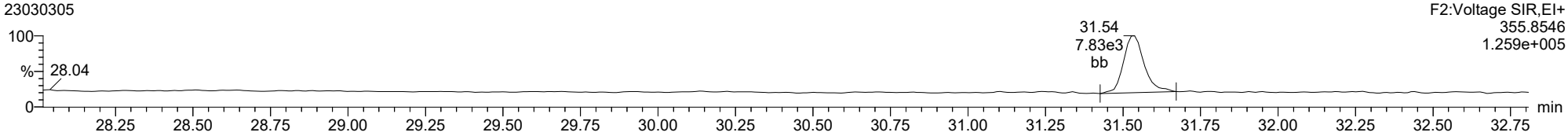

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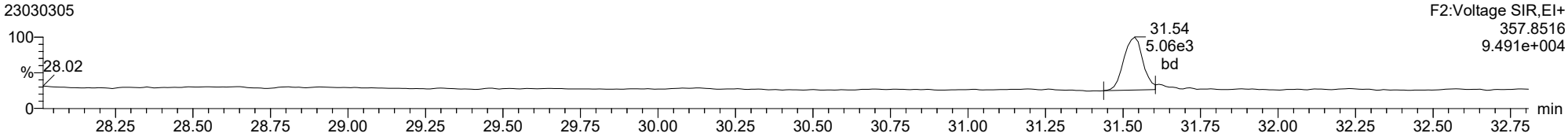

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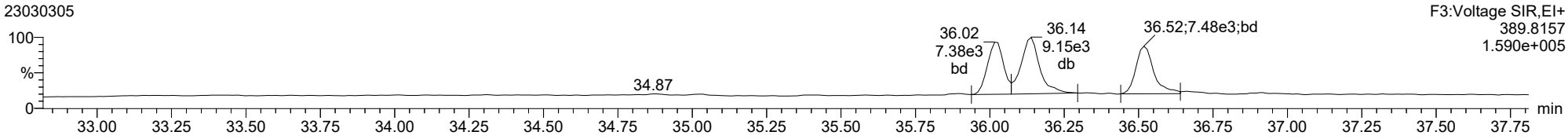
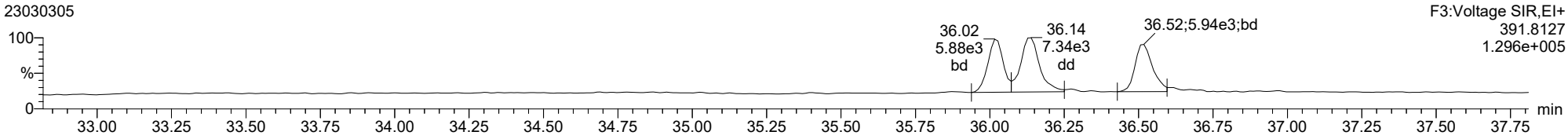


Total-hexadioxins



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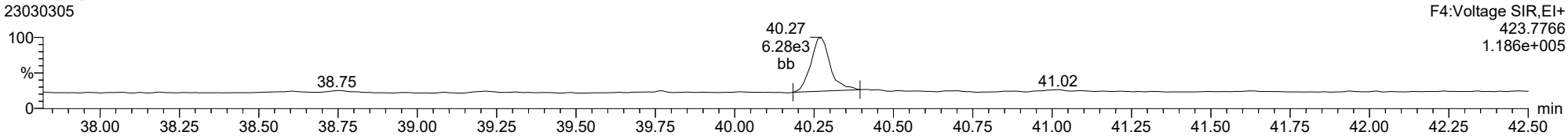

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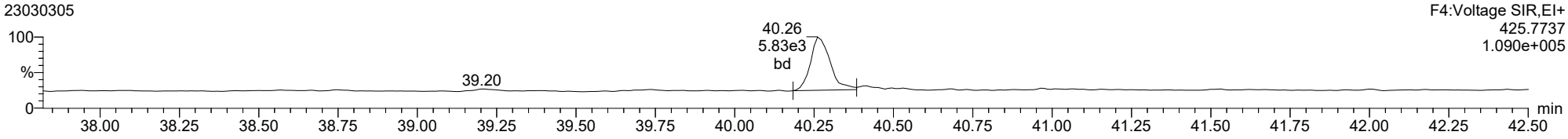

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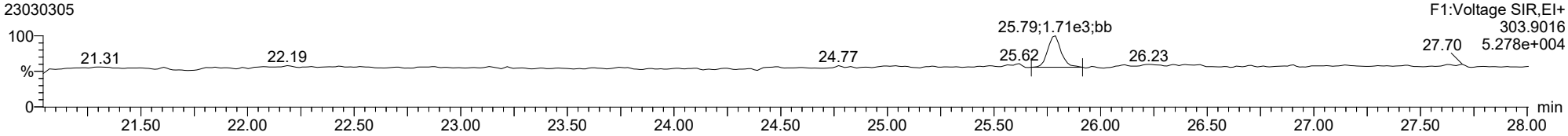
Total-tetrafurans



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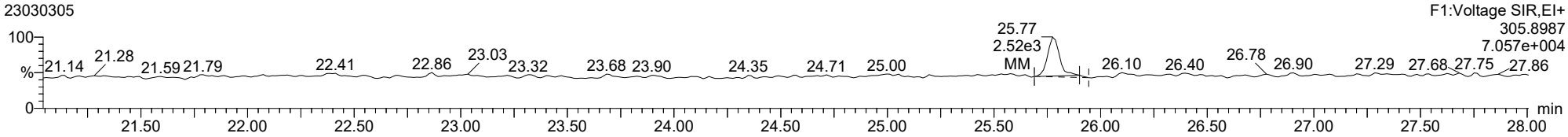

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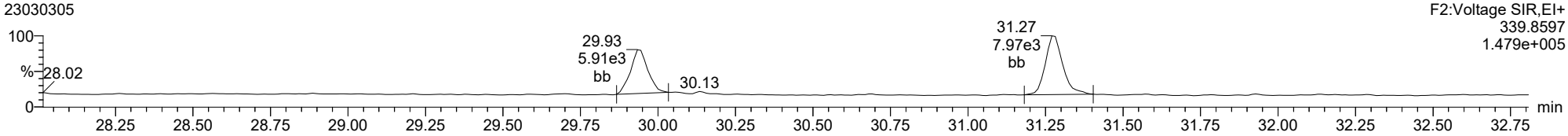

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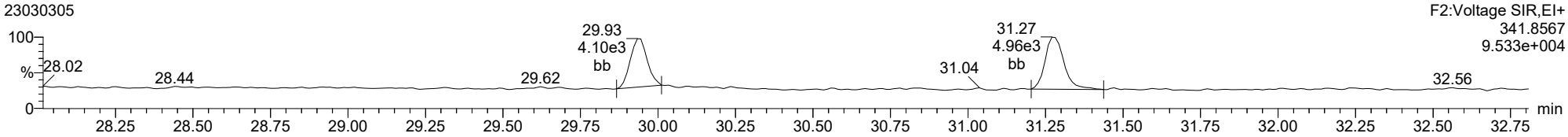

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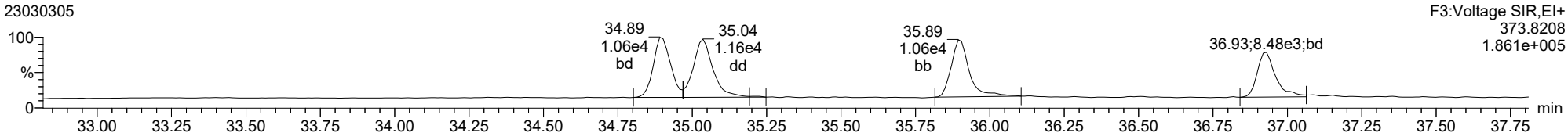

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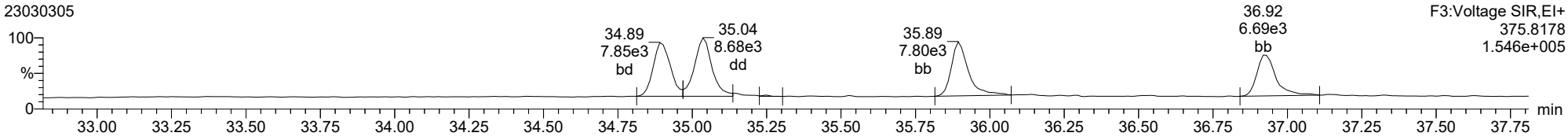

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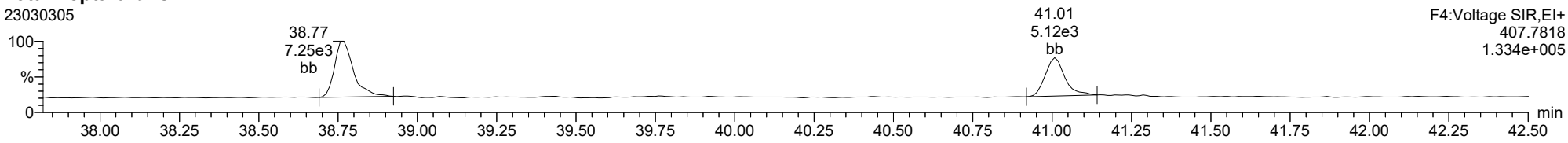

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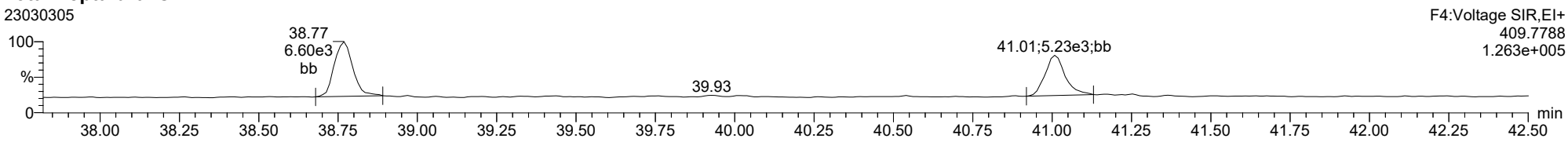

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Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.789	1.001	8.311e3	1.080e4	0.702	0.769	0.770	1017	2375	1.17e5	1.59e5	114.9	67.2	NO	bd	bb	1.942
12378-PeCDF	29.945	1.001	4.669e4	2.820e4	0.679	1.656	1.550	1114	1452	6.51e5	4.26e5	583.9	293.2	NO	bd	bb	10.465
23478-PeCDF	31.282	1.000	4.676e4	2.892e4	0.786	1.617	1.550	1114	1452	6.63e5	4.21e5	595.0	289.8	NO	bb	bb	10.293
123478-HxCDF	34.903	1.000	5.097e4	3.855e4	1.166	1.322	1.240	1081	974	7.67e5	5.88e5	709.2	604.2	NO	bd	bd	9.861
234678-HxCDF	35.906	1.000	4.287e4	3.364e4	1.140	1.274	1.240	1081	974	6.16e5	4.95e5	570.0	508.0	NO	bd	bb	10.523
123678-HxCDF	35.048	1.001	5.830e4	4.380e4	1.091	1.331	1.240	1081	974	7.78e5	6.16e5	719.4	632.0	NO	dd	db	10.775
123789-HxCDF	36.942	1.001	3.050e4	2.273e4	1.137	1.342	1.240	1081	974	4.14e5	3.24e5	383.3	332.2	NO	bb	bb	9.945
1234678-HpCDF	38.780	1.001	2.871e4	2.660e4	1.003	1.079	1.050	1234	1299	4.33e5	4.29e5	350.5	330.3	NO	bd	bb	10.087
1234789-HpCDF	41.020	1.000	2.198e4	2.032e4	0.953	1.082	1.050	1234	1299	3.09e5	2.76e5	250.5	212.3	NO	bb	bb	10.556
OCDF	45.247	1.006	3.160e4	3.327e4	0.778	0.950	0.890	832	1108	3.53e5	3.88e5	424.8	350.5	NO	bd	bb	19.690
2378-TCDD	26.438	1.001	9.033e3	1.299e4	1.149	0.696	0.770	1078	937	1.34e5	1.84e5	124.1	196.6	NO	bb	bb	2.068
12378-PeCDD	31.538	1.000	4.287e4	2.877e4	1.022	1.490	1.550	1012	882	6.26e5	3.88e5	618.4	440.6	NO	bb	bb	9.981
123478-HxCDD	36.028	1.001	3.011e4	2.566e4	0.996	1.173	1.240	1087	1355	4.81e5	4.17e5	442.1	307.5	NO	bd	bd	9.781
123678-HxCDD	36.140	1.000	3.660e4	2.810e4	1.001	1.303	1.240	1087	1355	5.13e5	3.98e5	471.9	293.4	NO	dd	db	9.830
123789-HxCDD	36.530	1.011	2.694e4	2.285e4	0.907	1.179	1.240	1087	1355	3.87e5	3.22e5	355.7	237.4	NO	bb	bb	8.921
1234678-HpCDD	40.273	1.000	2.448e4	2.664e4	1.039	0.919	1.050	853	881	3.43e5	3.58e5	402.1	405.9	NO	bb	bd	10.011
OCDD	45.009	1.000	3.531e4	4.015e4	0.920	0.879	0.890	1050	1012	4.08e5	4.99e5	388.3	492.6	NO	bb	bb	19.363
13C-2378-TCDF	25.774	1.007	6.035e5	7.993e5	1.620	0.755	0.770	2457	1835	8.64e6	1.14e7	3516.1	6186.3	NO	bb	bb	103.115
13C-12378-PeCDF	29.923	1.169	6.526e5	4.010e5	1.240	1.628	1.550	3002	2090	8.73e6	5.82e6	2907.1	2783.7	NO	bb	bb	101.148
13C-23478-PeCDF	31.271	1.221	5.554e5	3.799e5	1.118	1.462	1.550	3002	2090	8.01e6	5.41e6	2667.8	2586.4	NO	bb	bb	99.644
13C-123478-HxCDF	34.892	0.956	2.641e5	5.144e5	1.168	0.513	0.510	1857	2488	3.90e6	7.62e6	2100.8	3063.0	NO	bd	bd	129.584
13C-123678-HxCDF	35.026	0.959	2.932e5	5.755e5	1.386	0.510	0.510	1857	2488	4.18e6	8.13e6	2249.4	3269.5	NO	db	db	121.832
13C-234678-HxCDF	35.895	0.983	2.180e5	4.199e5	1.129	0.519	0.510	1857	2488	3.14e6	6.08e6	1689.2	2442.9	NO	bb	bb	109.838
13C-123789-HxCDF	36.920	1.011	1.570e5	3.137e5	0.932	0.501	0.510	1857	2488	2.29e6	4.45e6	1232.1	1790.1	NO	bb	bb	98.225
13C-1234678-HpCDF	38.758	1.062	1.644e5	3.823e5	0.895	0.430	0.440	2012	3375	2.57e6	5.95e6	1277.0	1763.6	NO	bb	bb	118.766
13C-1234789-HpCDF	40.998	1.123	1.271e5	2.934e5	0.770	0.433	0.440	2012	3375	1.71e6	4.02e6	850.7	1191.4	NO	bb	bb	106.228
13C-1234-TCDD	25.605	0.000	3.763e5	4.634e5	1.000	0.812	0.770	2552	2183	5.75e6	7.05e6	2254.8	3231.1	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	4.085e5	5.183e5	1.152	0.788	0.770	2552	2183	5.98e6	7.56e6	2342.4	3461.2	NO	bb	bb	95.779
13C-12378-PeCDD	31.527	1.231	4.337e5	2.688e5	0.829	1.614	1.550	1077	1542	6.15e6	3.74e6	5715.6	2425.2	NO	bb	bb	100.933
13C-123478-HxCDD	36.006	0.986	3.223e5	2.505e5	0.995	1.287	1.240	2237	1883	4.87e6	3.76e6	2175.2	1999.6	NO	bd	bd	111.924
13C-123678-HxCDD	36.129	0.990	3.608e5	2.967e5	1.157	1.216	1.240	2237	1883	5.10e6	4.02e6	2277.5	2137.4	NO	db	db	110.547
13C-1234678-HpCDD	40.262	1.103	2.573e5	2.341e5	0.840	1.099	1.050	2349	1481	3.41e6	3.22e6	1450.8	2172.3	NO	bd	bb	113.737
13C-OCDD	44.991	1.232	4.017e5	4.455e5	0.767	0.902	0.890	2278	1800	4.53e6	5.05e6	1990.6	2807.7	NO	bb	bb	214.651
13C-123789-HxCDD	36.507	0.000	2.902e5	2.240e5	1.000	1.296	1.240	2237	1883	4.20e6	3.27e6	1878.6	1737.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.032	1.977e4		1.288			2484		2.93e5		117.9			bb		1.828

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:24 Pacific Standard Time

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1017	2375								
1289-TCDF					0.678		0.770	1017	2375								
13468-PECDF					1.246		1.550	633	1159								
12389-PECDF					0.496		1.550	1114	1452								
123468-HXCDF					1.169		1.240	1081	974								
1368-TCDD					1.015		0.770	1078	937								
1289-TCDD					0.909		0.770	1078	937								
12479-PECDD					2.301		1.550	1012	882								
12389-PECDD					1.184		1.550	1012	882								
124679-HXCDD					1.115		1.240	1087	1355								
1234679-HPCDD					1.137		1.050	853	881								
Total-tetrafurans			8.311e3		0.727			1017		1.17e5							1.942
Total-penta1			0.000e0					633		0.00e0							
Total-pentafurans			9.345e4		0.654			1114		1.31e6							20.758
Total-hexafurans			1.826e5		1.141			1081		2.58e6							41.105
Total-heptafurans			5.070e4		0.978			1234		7.42e5							20.643
Total-Furans			3.667e5		0.922			1017		5.10e6							104.140
Total-tetradioxins			9.033e3		1.024			1078		1.34e5							2.068
Total-pentadioxins			4.287e4		1.502			1012		6.26e5							9.981
Total-hexadioxins			9.364e4		1.005			1087		1.38e6							28.532
Total-heptadioxins			2.448e4		1.088			853		3.43e5							10.011
Total-Dioxins			2.053e5		1.130			1078		2.89e6							69.955
Total-TEQ			5.720e5					1078		7.99e6							174.095
FUNCTION1 PFK			1.995e6					567717		7.69e6							
FUNCTION2 PFK			1.258e5					282093		4.74e6							0.000
FUNCTION3 PFK			4.711e7					382868		3.34e7							0.000
FUNCTION4 PFK			2.092e7					278389		1.32e7							
FUNCTION5 PFK			6.777e4					239180		2.68e6							
FUNCTION1 HXCD...			0.000e0					613		0.00e0							
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.408e2					965		2.85e3							0.000
FUNCTION3 OCDPE			0.000e0					571		0.00e0							
FUNCTION4 NCDPE			3.810e2					638		4.39e3							0.000
FUNCTION5 DCDPE			0.000e0					603		0.00e0							

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
2	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
3	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
4	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
2	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465
3	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942
4	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
5	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
6	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
7	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861
8	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
9	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087
10	OCDF	45.25	3.160e4	3.327e4	0.778	0.95	0.89	424.8	YES	NO	bd	bb	19.690

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
2	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
3	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981
2	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068
3	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
4	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
5	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781
6	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011
7	OCDD	45.01	3.531e4	4.015e4	0.920	0.88	0.89	388.3	YES	NO	bb	bb	19.363

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465
3	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942
4	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
5	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
6	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
7	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861
8	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
9	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087
10	OCDF	45.25	3.160e4	3.327e4	0.778	0.95	0.89	424.8	YES	NO	bd	bb	19.690
11	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981
12	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068
13	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
14	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
15	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781
16	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011
17	OCDD	45.01	3.531e4	4.015e4	0.920	0.88	0.89	388.3	YES	NO	bb	bb	19.363

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.73	8.333e5					6.7	YES		bb		
2	FUNCTION1 PFK	21.10	1.162e6					6.9	YES		bb		

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.61	1.110e4					1.3	NO		bb		0.000
2	FUNCTION2 PFK	28.31	1.183e4					1.5	NO		bb		0.000
3	FUNCTION2 PFK	31.85	7.066e3					1.3	NO		bb		0.000
4	FUNCTION2 PFK	31.75	1.168e4					1.4	NO		bb		0.000
5	FUNCTION2 PFK	30.95	1.613e4					2.1	NO		bb		0.000
6	FUNCTION2 PFK	30.06	7.806e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	29.77	1.198e4					1.4	NO		bb		0.000
8	FUNCTION2 PFK	29.47	1.476e4					2.1	NO		bb		0.000
9	FUNCTION2 PFK	29.28	1.360e4					2.0	NO		db		0.000
10	FUNCTION2 PFK	29.22	1.980e4					2.4	NO		bd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.30	3.856e7					44.6	YES		db		0.000
2	FUNCTION3 PFK	33.18	8.558e6					42.7	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.24	1.285e7					8.2	YES		db		
2	FUNCTION4 PFK	38.41	8.070e6					39.3	YES		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.68	1.647e4					1.8	NO		bb		
2	FUNCTION5 PFK	45.75	3.282e3					1.0	NO		bb		
3	FUNCTION5 PFK	45.28	6.957e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.90	6.364e3					1.0	NO		bb		
5	FUNCTION5 PFK	44.84	1.531e3					0.5	NO		bb		
6	FUNCTION5 PFK	44.40	6.282e3					1.0	NO		bb		
7	FUNCTION5 PFK	44.21	4.626e3					1.1	NO		bb		
8	FUNCTION5 PFK	44.03	7.842e3					1.2	NO		bb		
9	FUNCTION5 PFK	43.96	6.415e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.84	7.992e3					1.2	NO		bb		

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.54	1.408e2					3.0	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.65	1.069e2					1.9	NO		bb		0.000
2	FUNCTION4 NCDPE	40.25	1.358e2					2.2	NO		bb		0.000
3	FUNCTION4 NCDPE	41.02	1.383e2					2.8	NO		bb		0.000

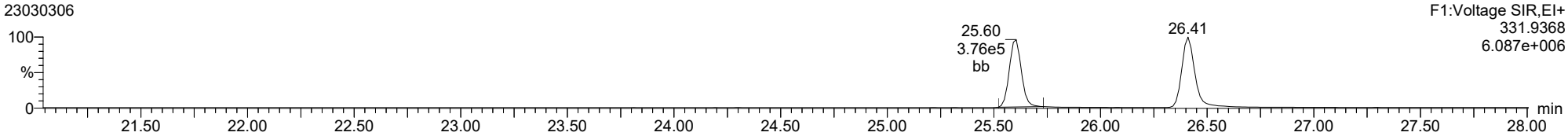
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

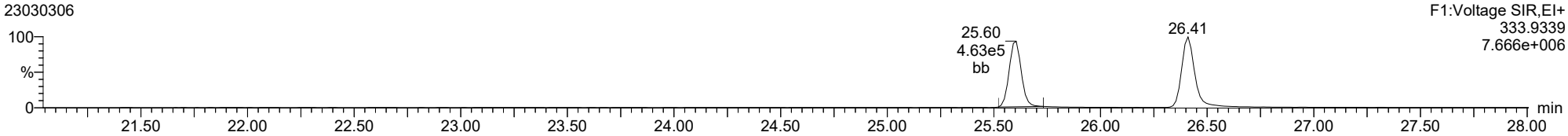
Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

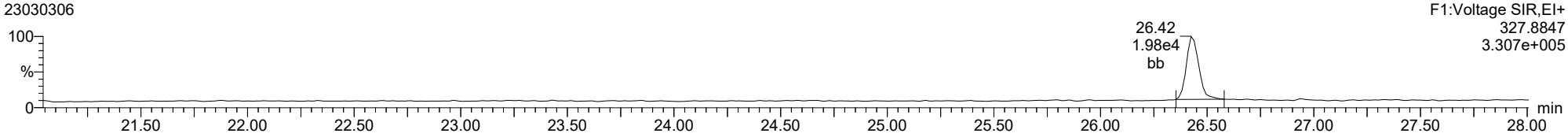
13C-1234-TCDD



13C-1234-TCDD



37CL-2378-TCDD



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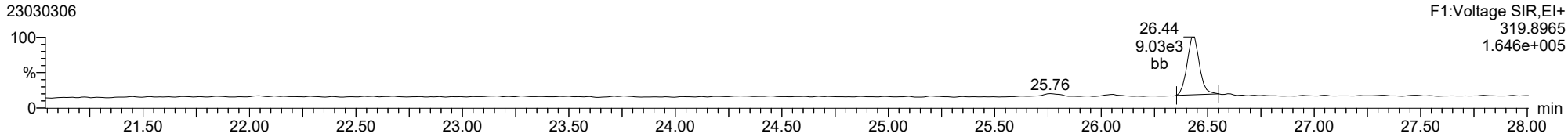

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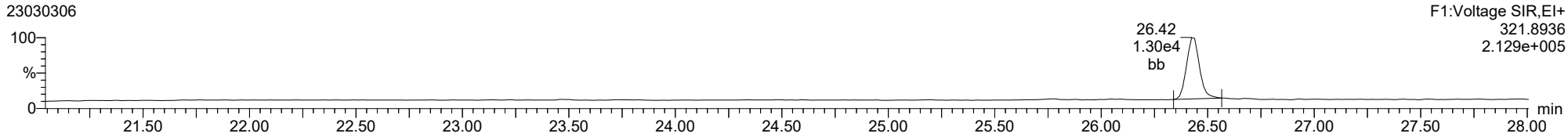

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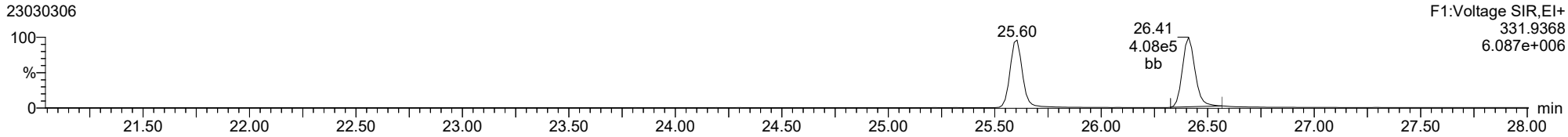

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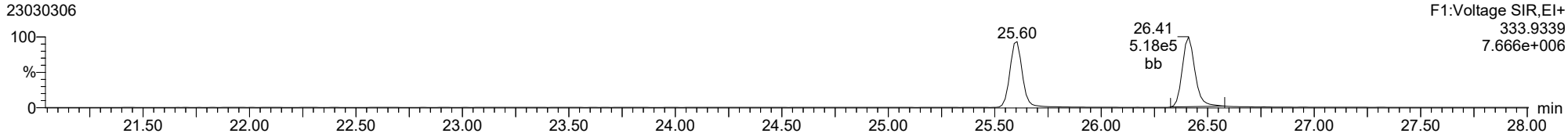

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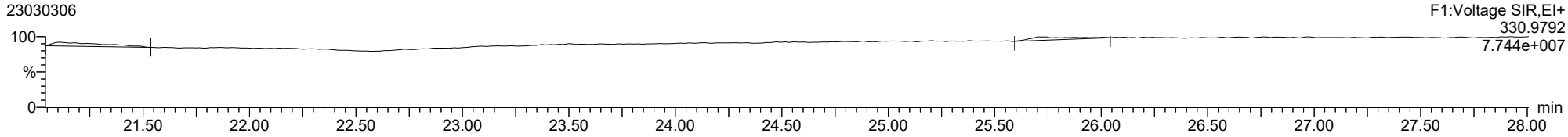

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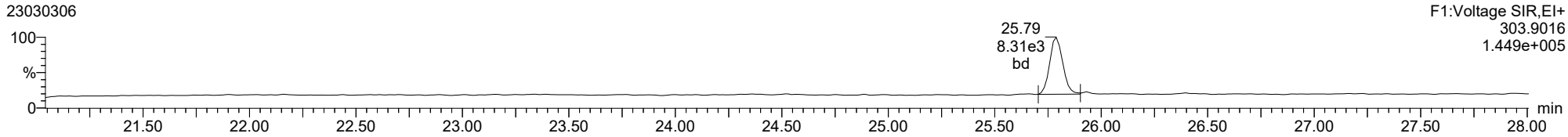

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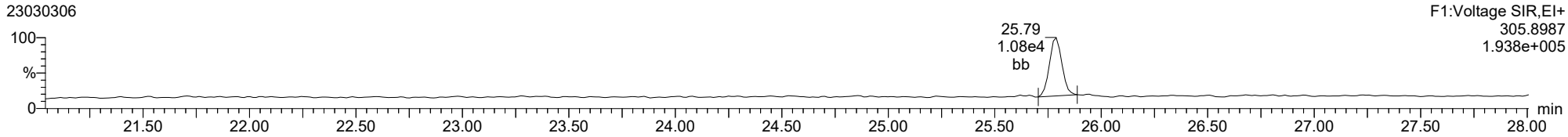

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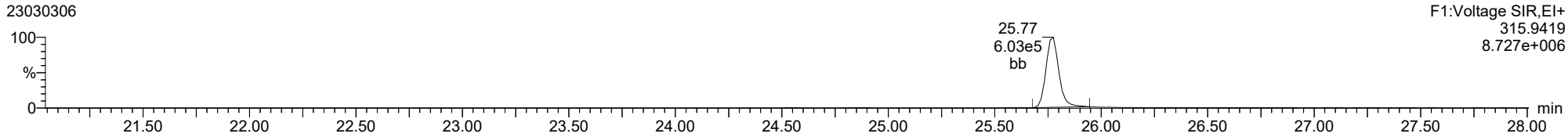

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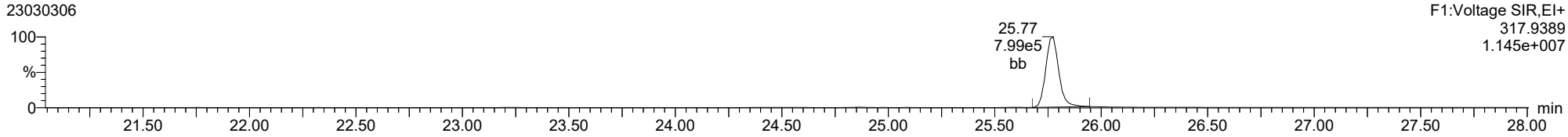

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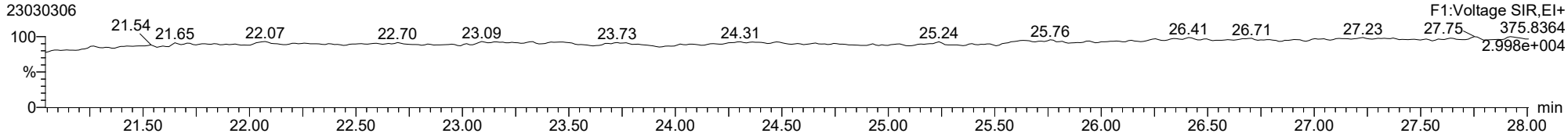

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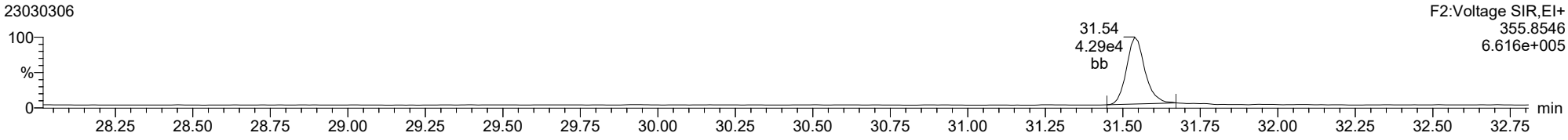

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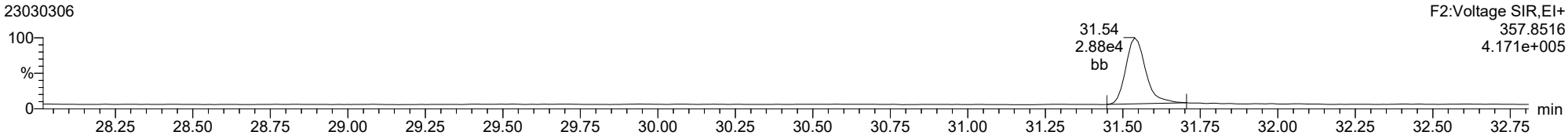

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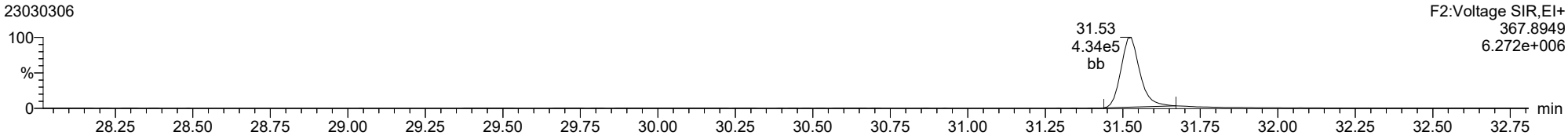

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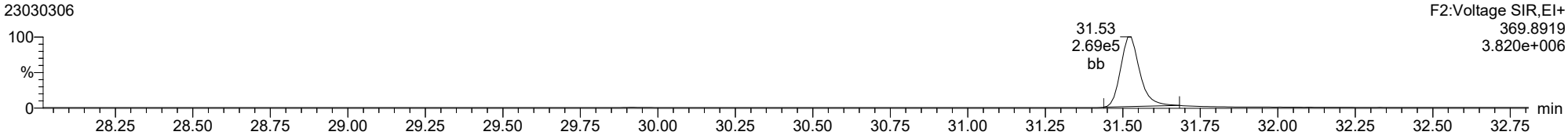
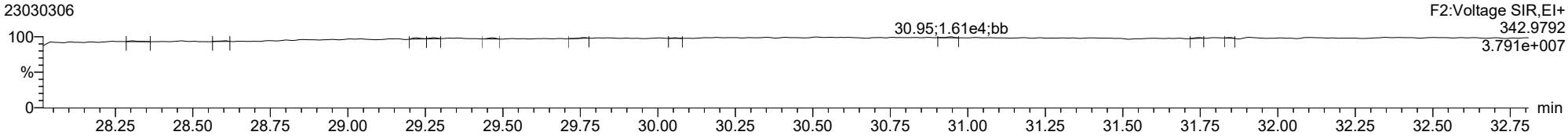


FUNCTION2 PFK



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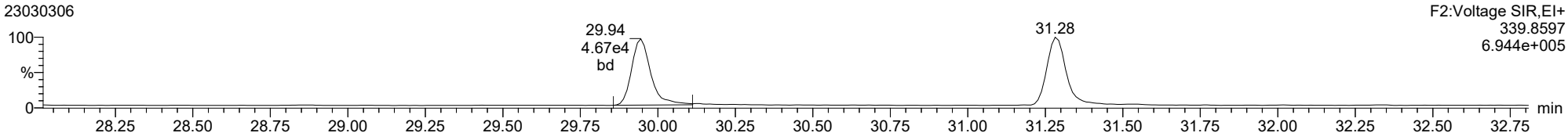

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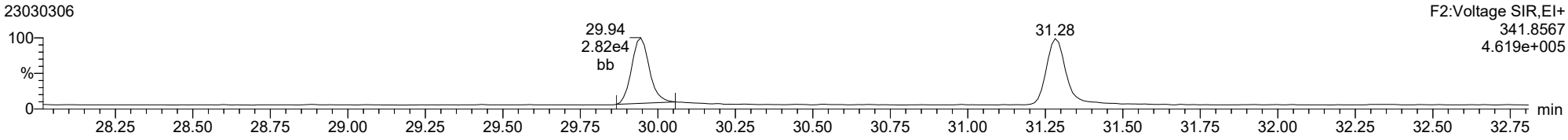

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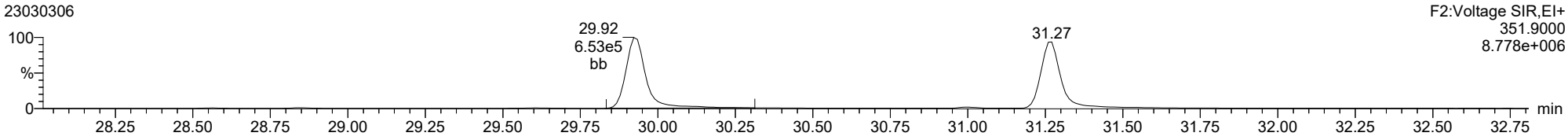

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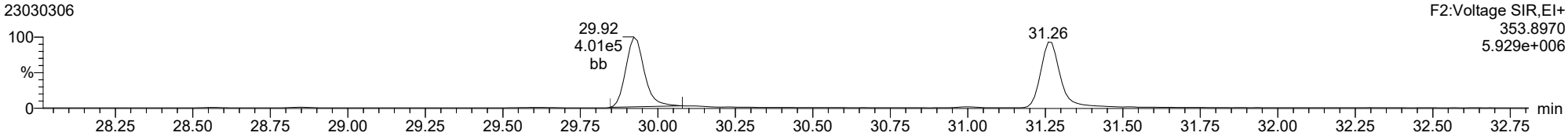
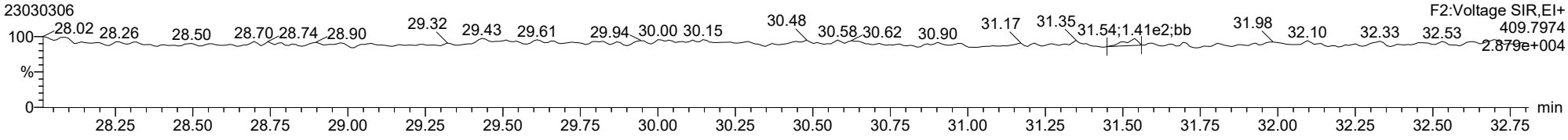


FUNCTION2 HPCDPE



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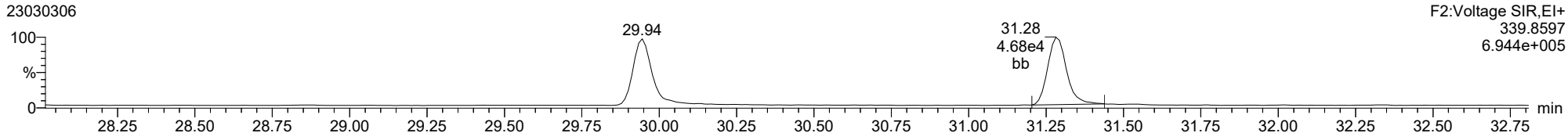

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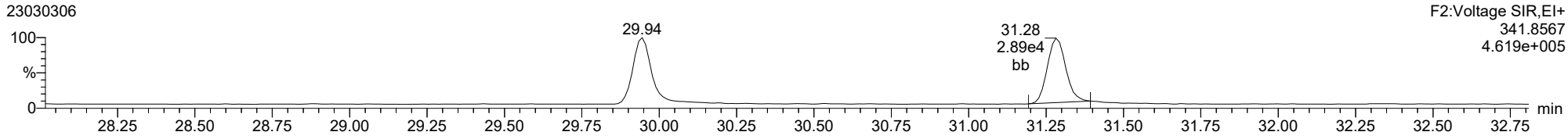

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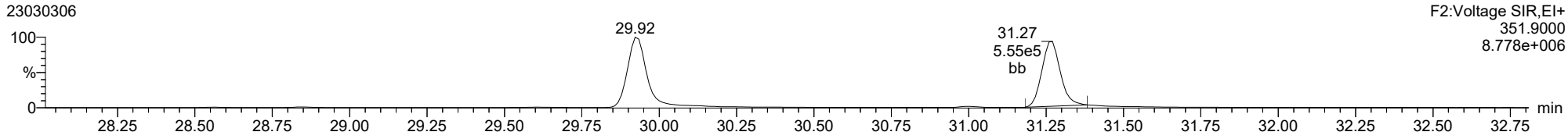

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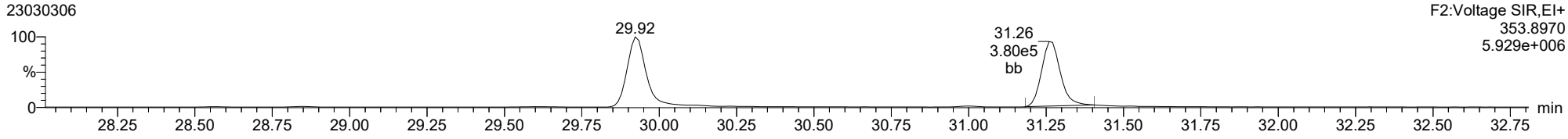

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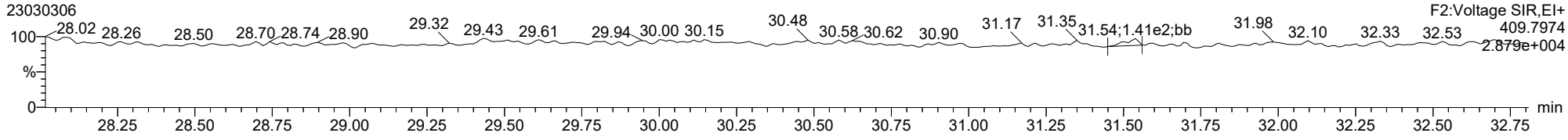

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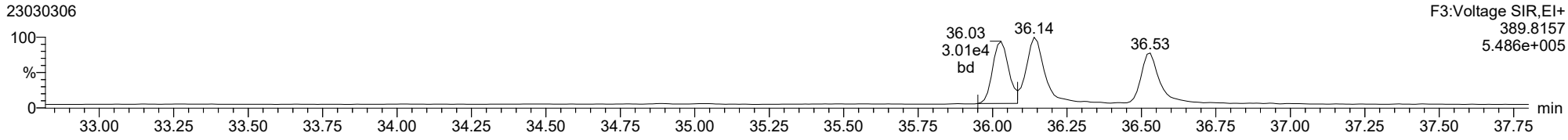

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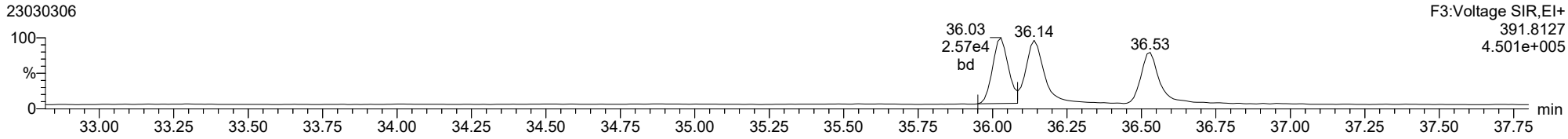

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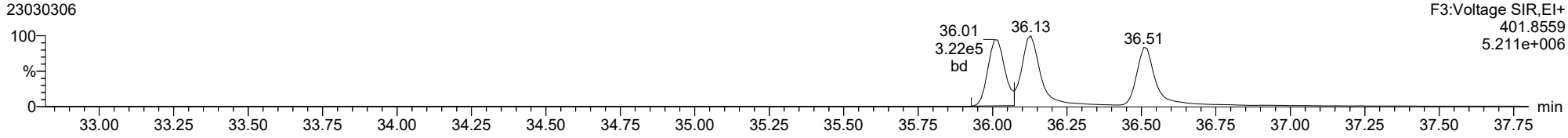

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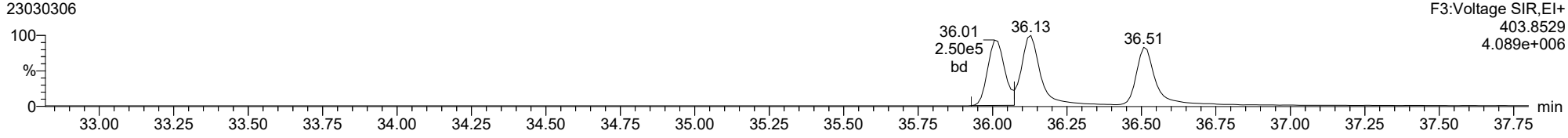

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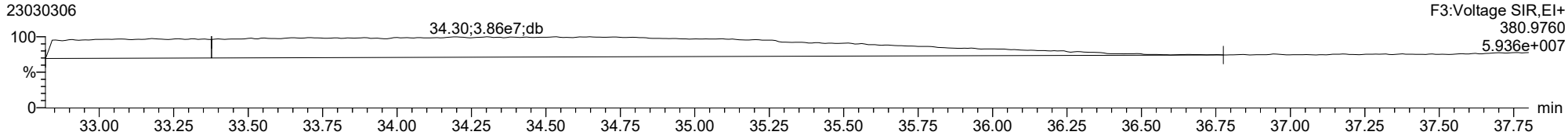

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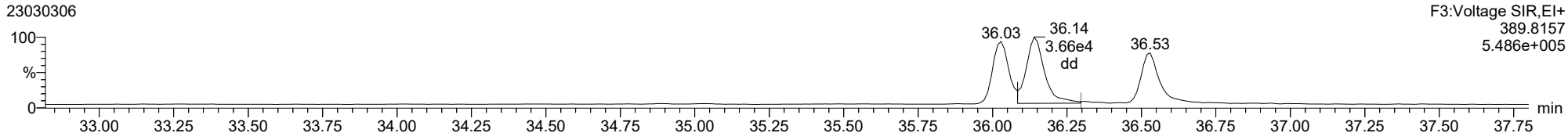

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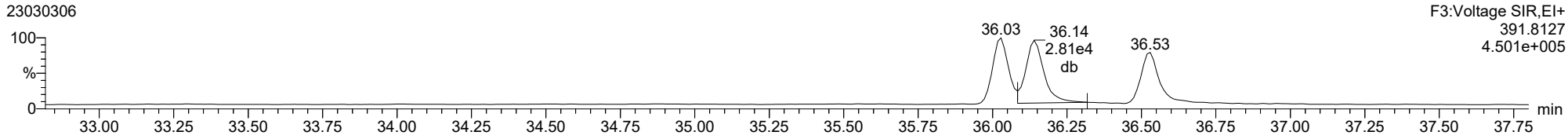

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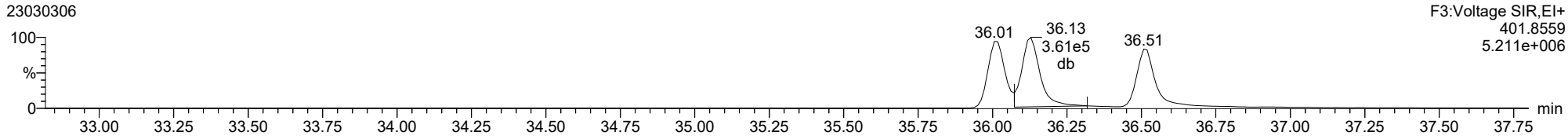

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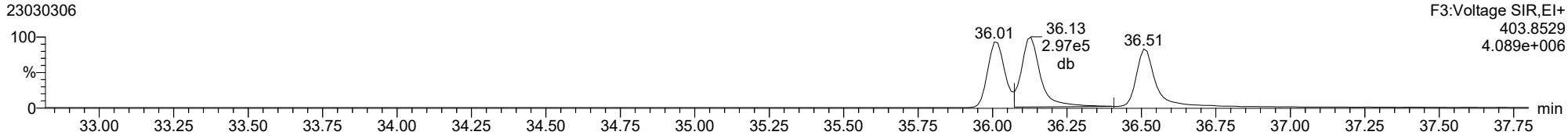

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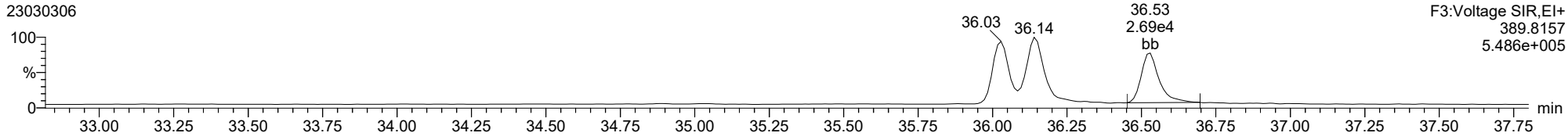

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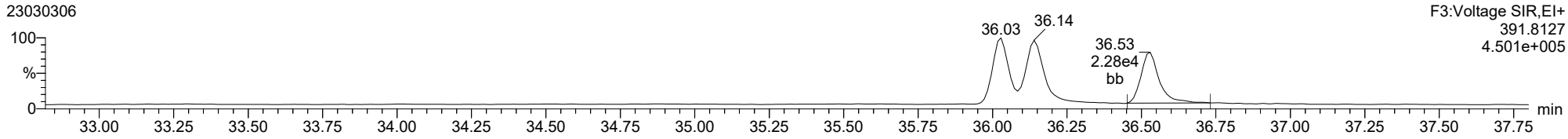

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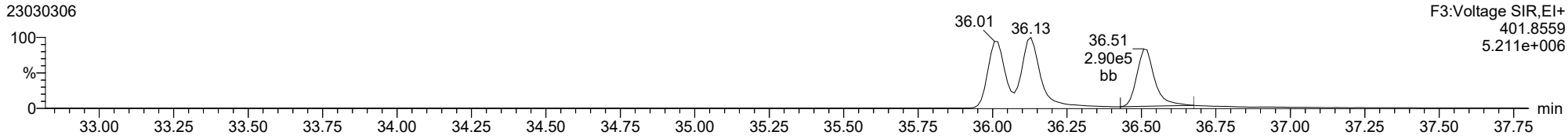

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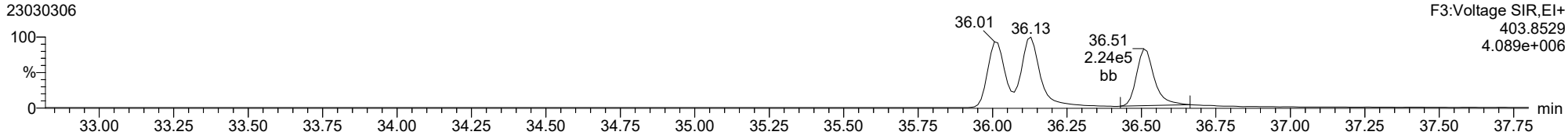

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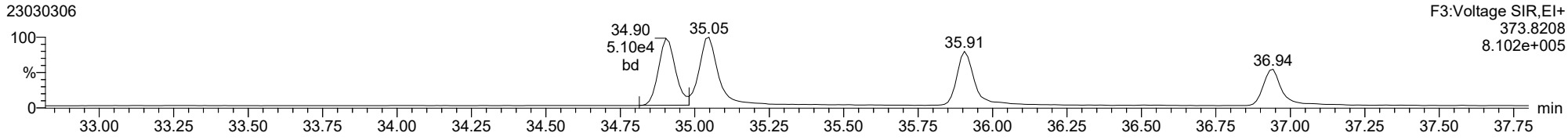

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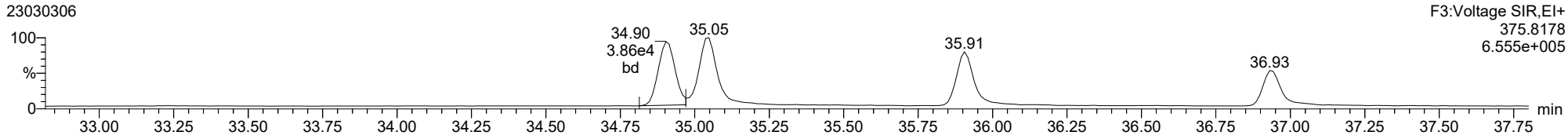

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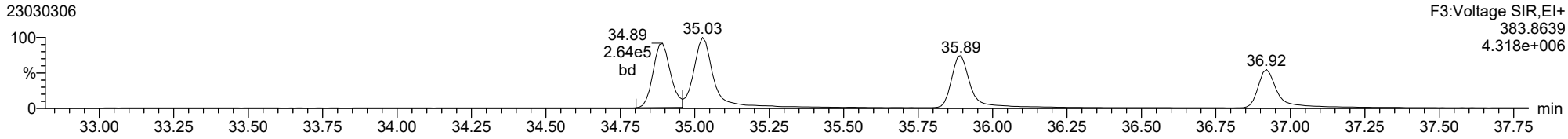

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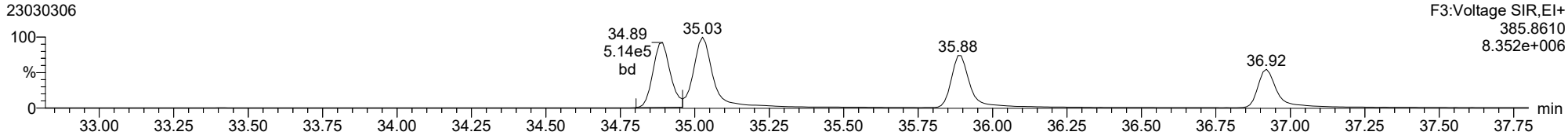
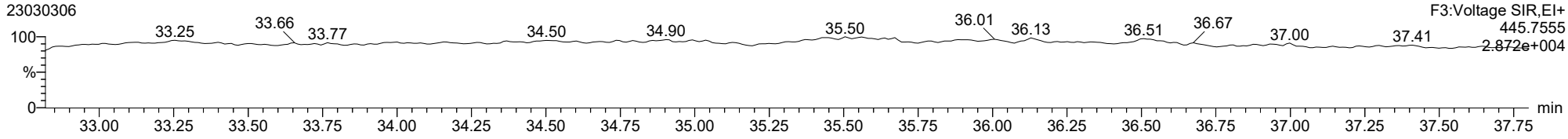


FUNCTION3 OCDPE



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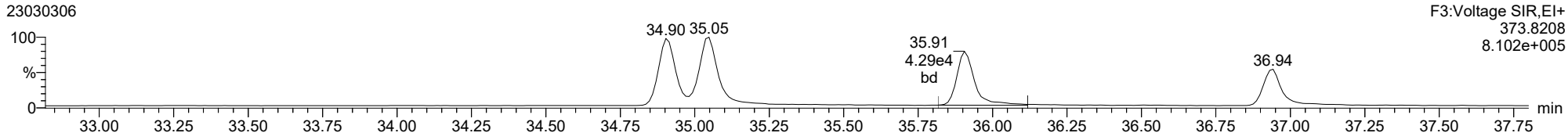
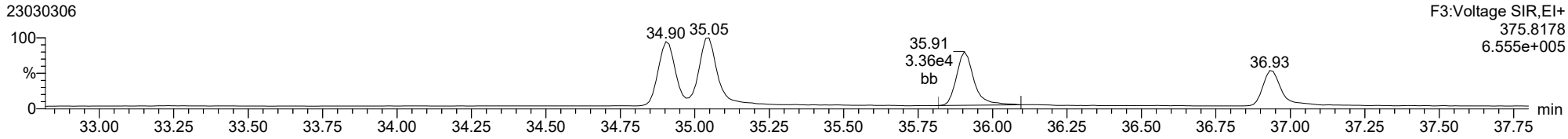
234678-HxCDF



234678-HxCDF



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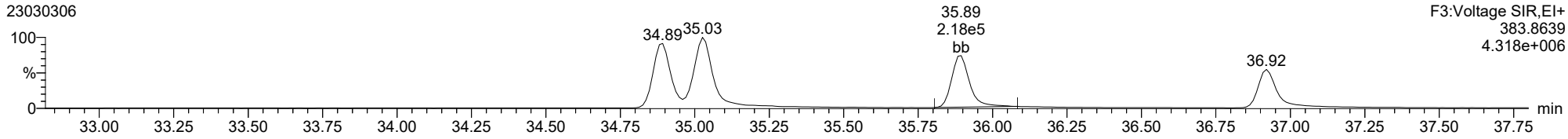

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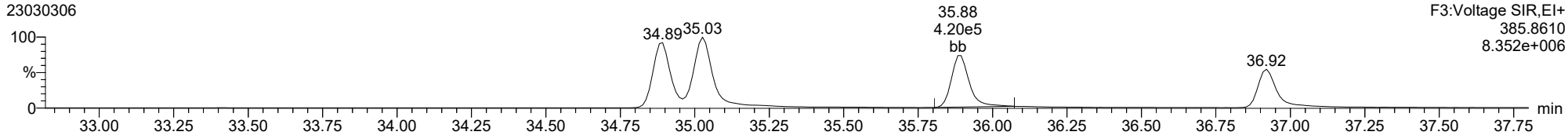
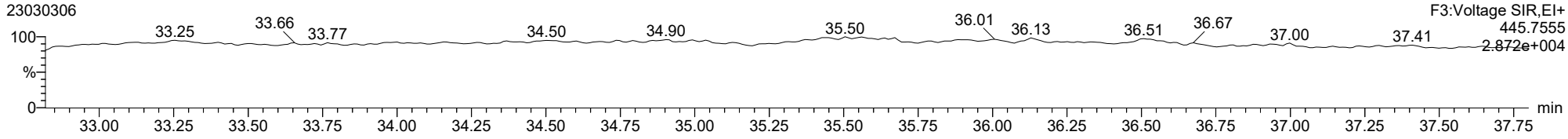


FUNCTION3 OCDPE



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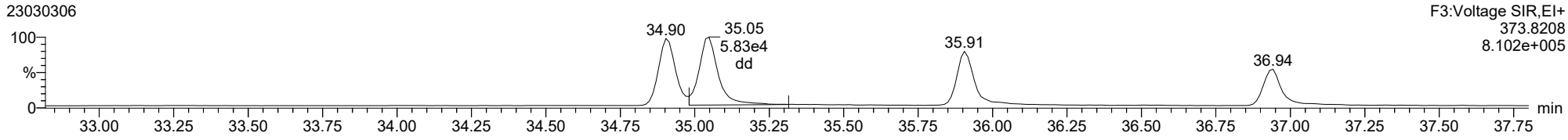

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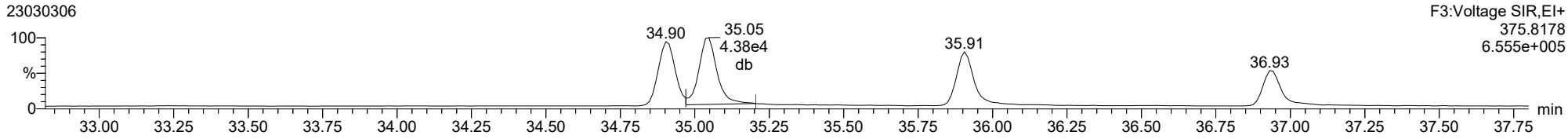

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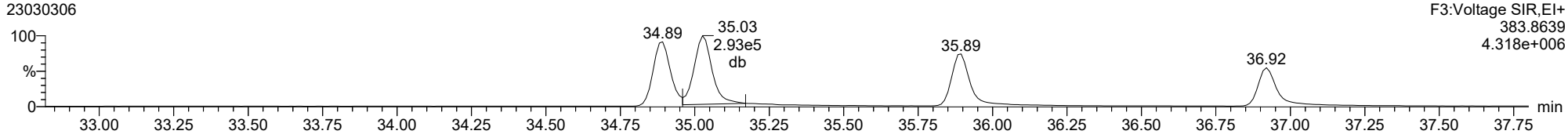

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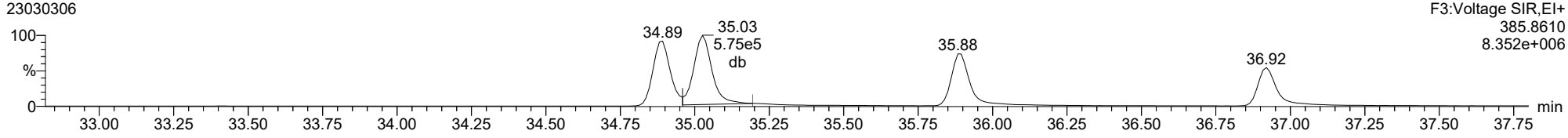

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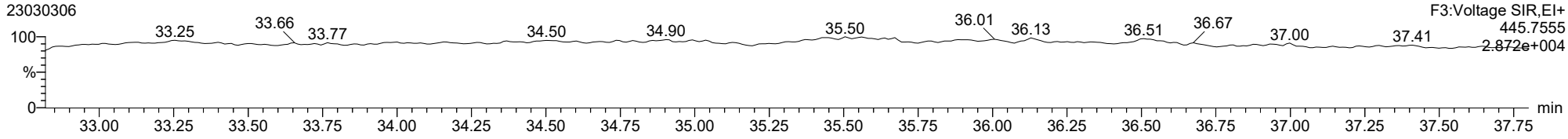

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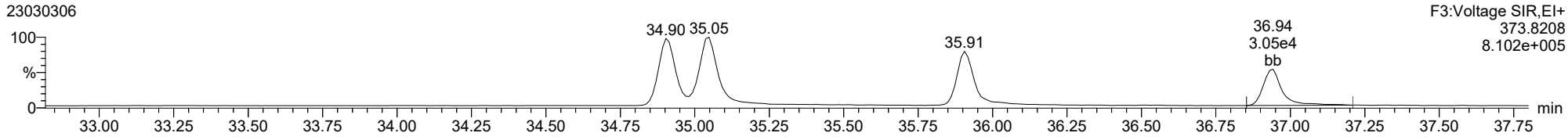

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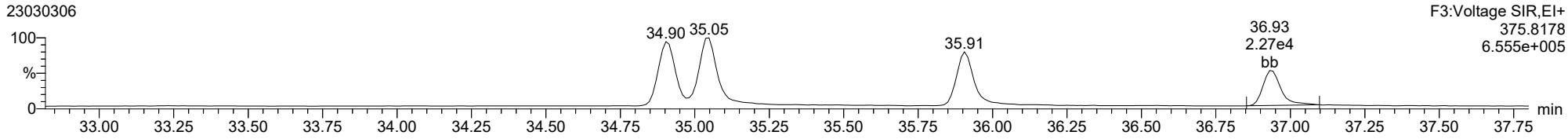

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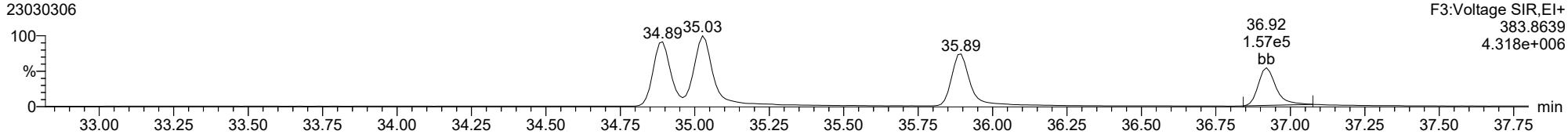

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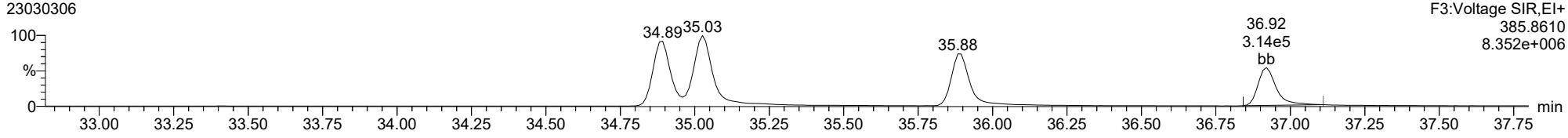

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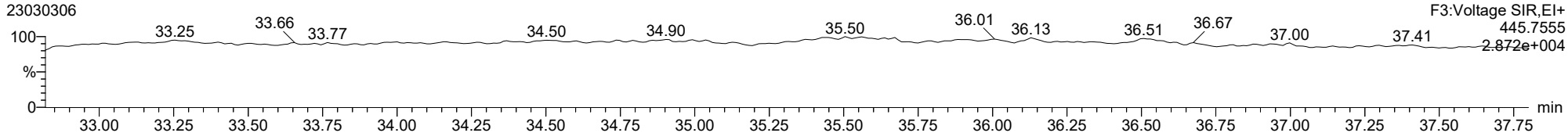

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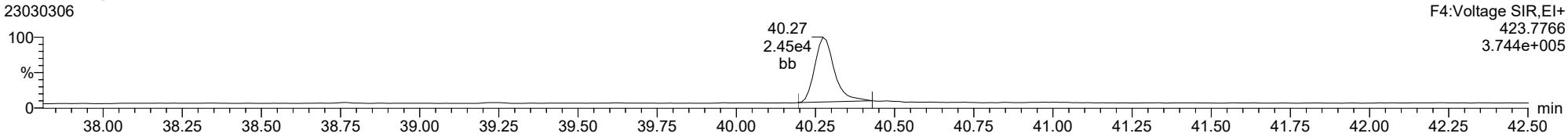

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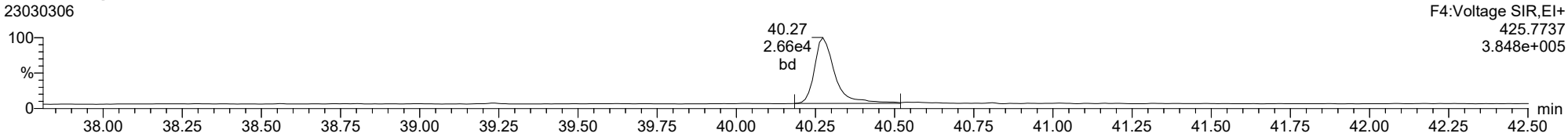

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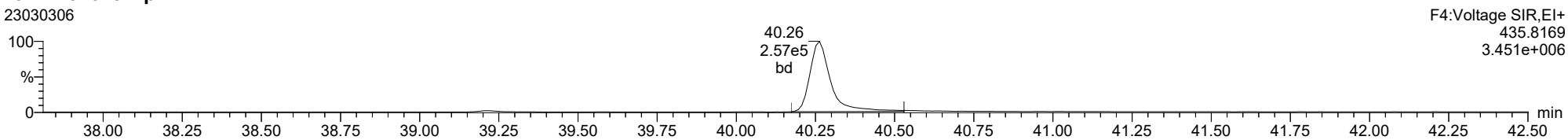

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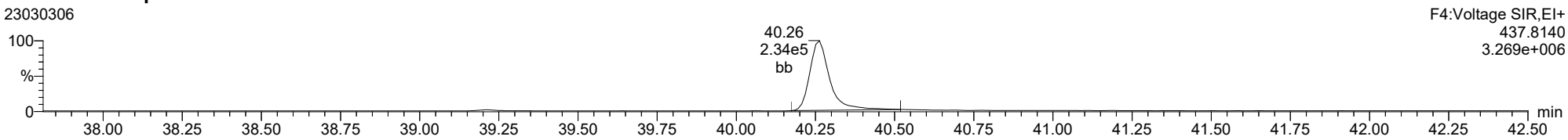

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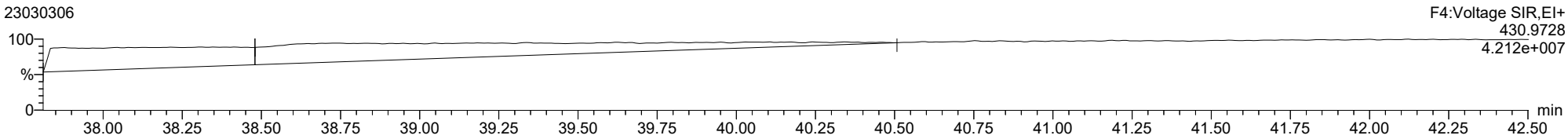

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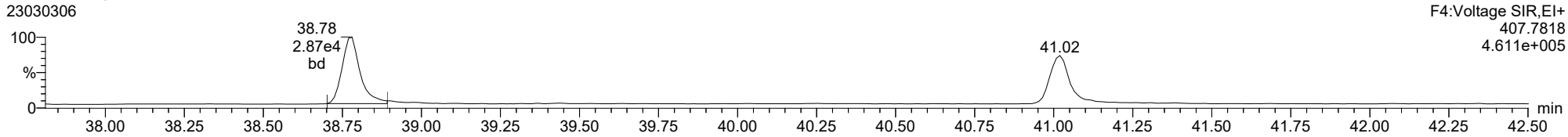

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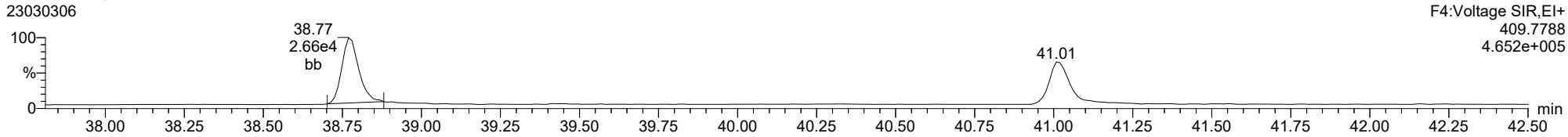

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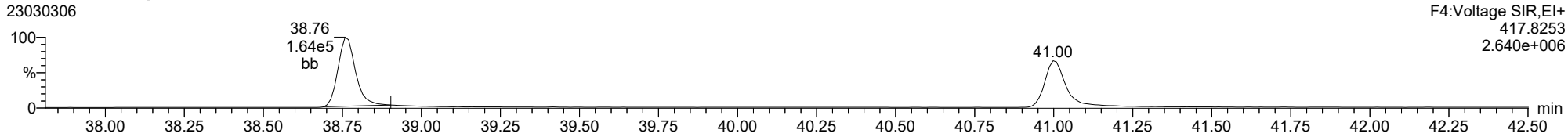

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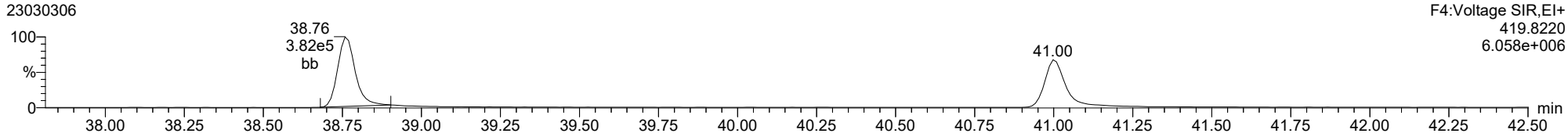
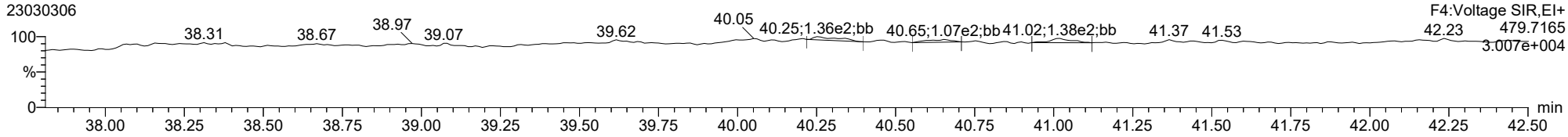


FUNCTION4 NCDPE



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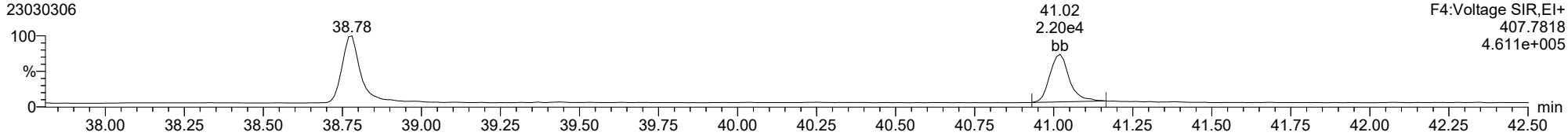

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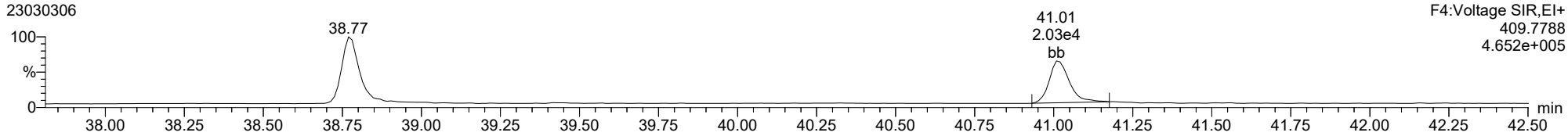

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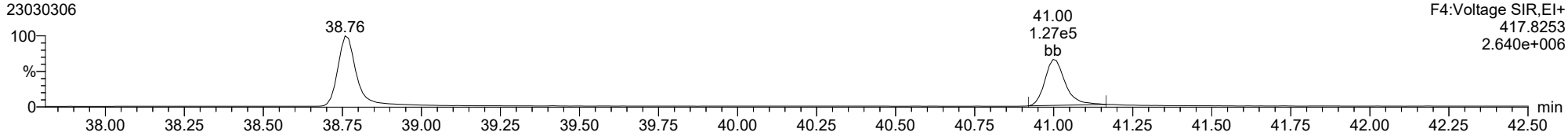

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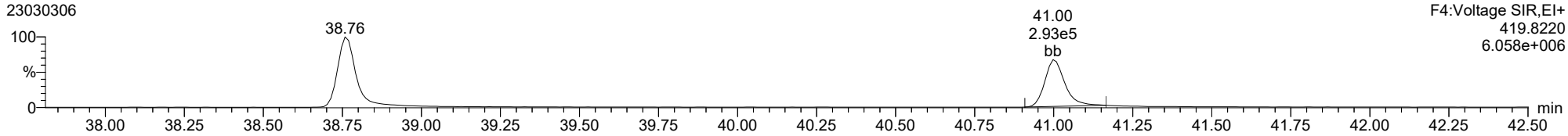

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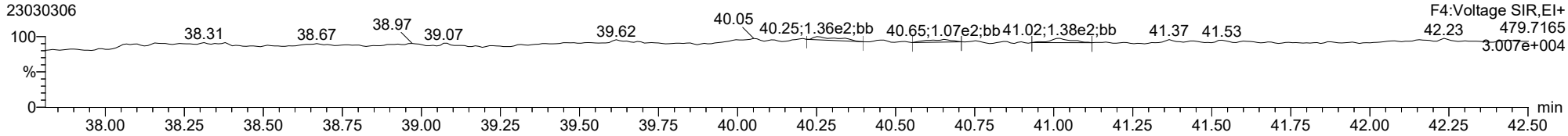

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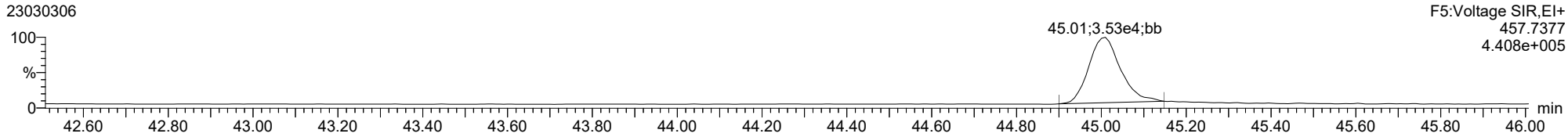
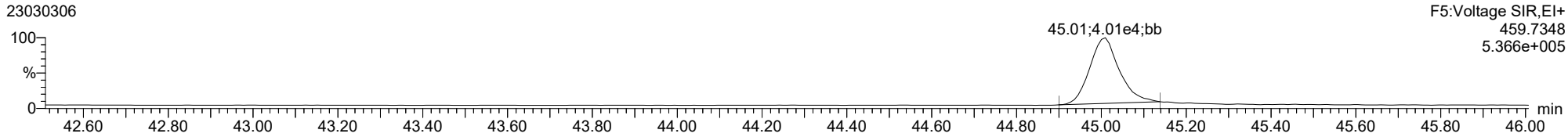


OCDD



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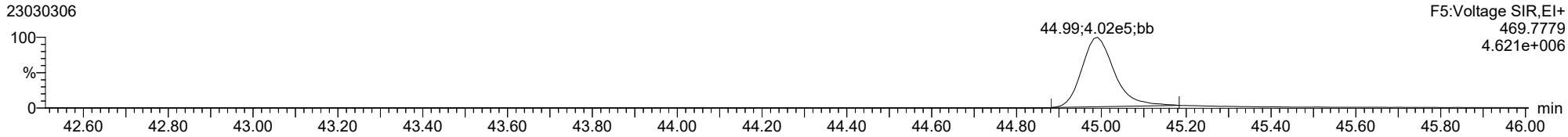

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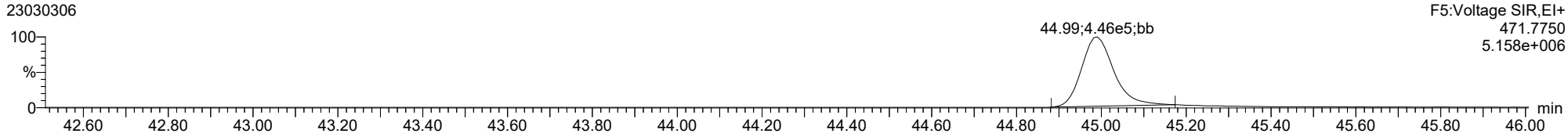
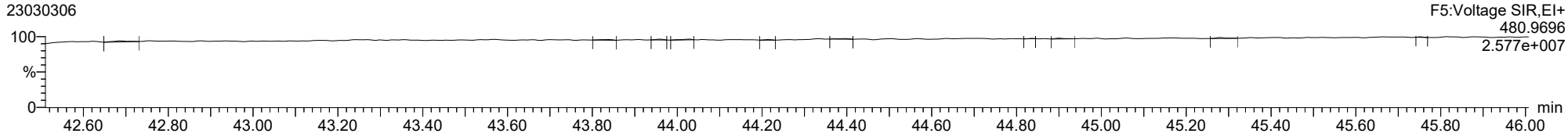


FUNCTION5 PFK



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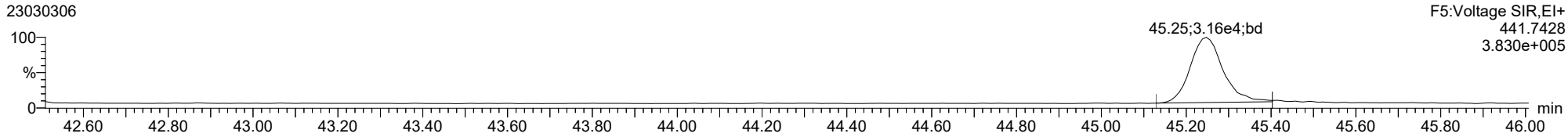

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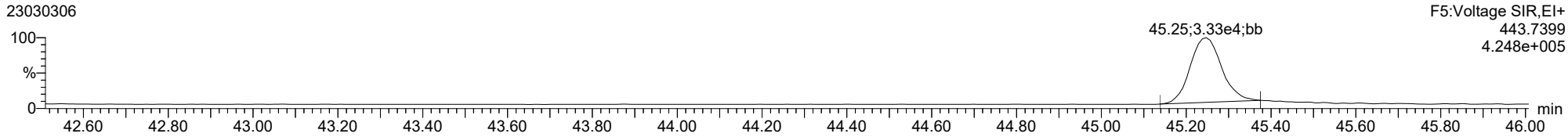

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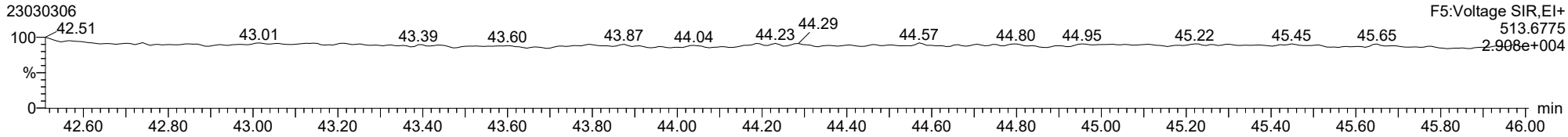

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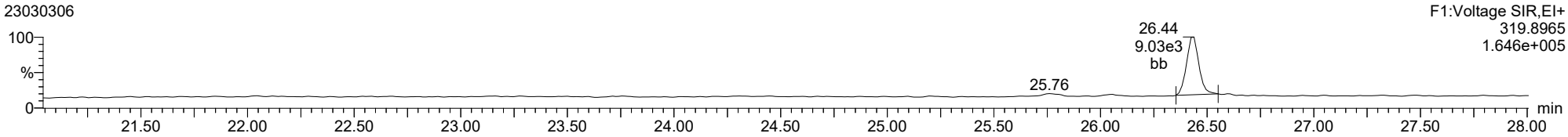
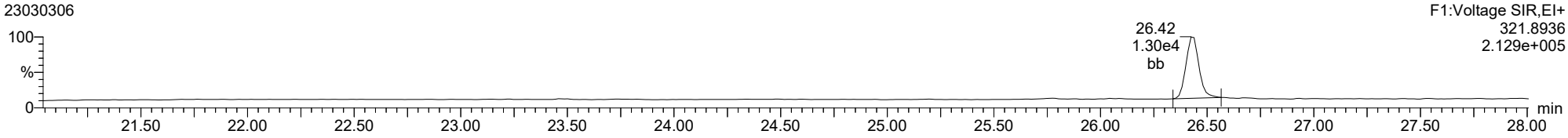
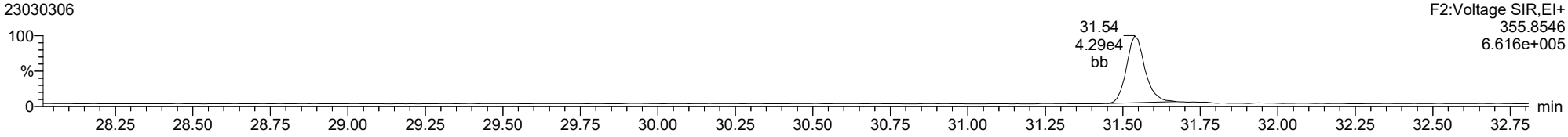
Total-tetradioxins



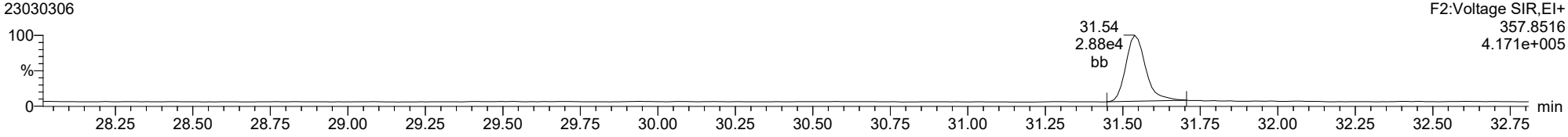
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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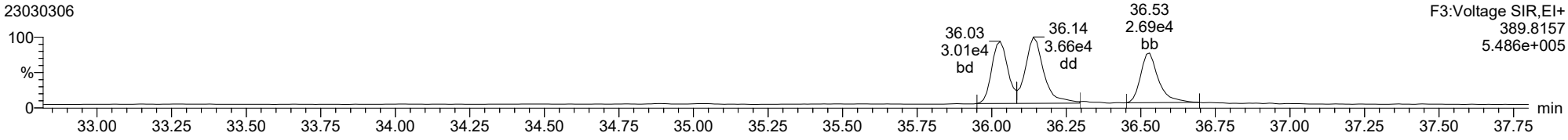

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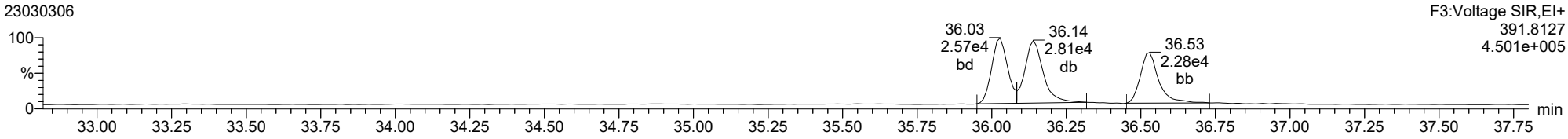

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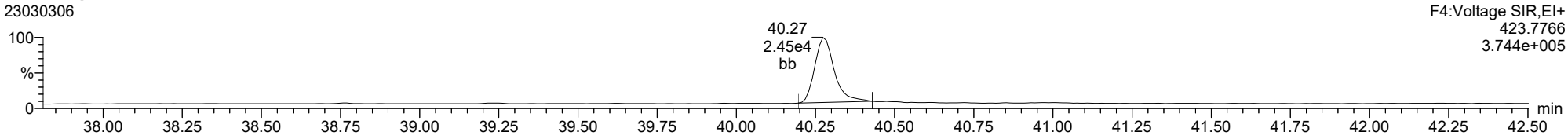
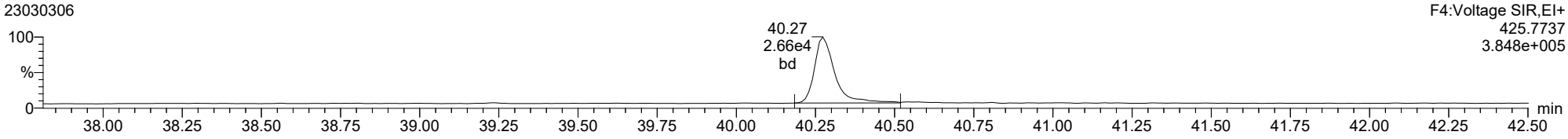


Total-heptadioxins



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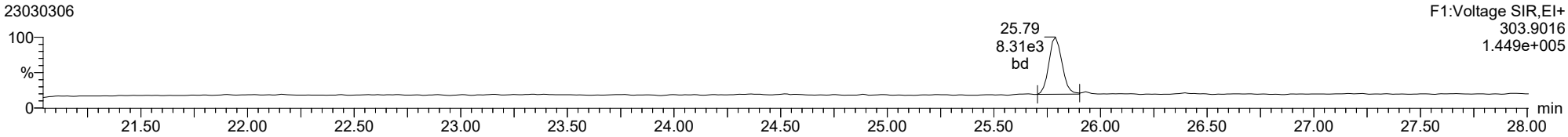
Total-tetrafurans



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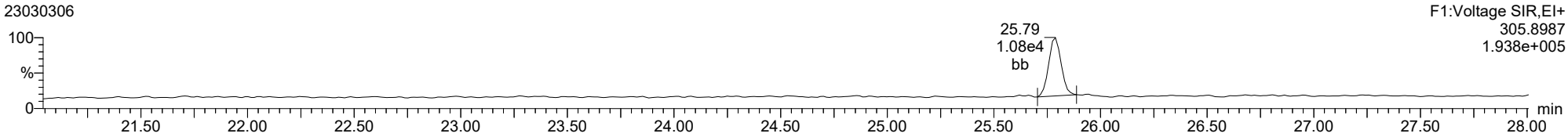

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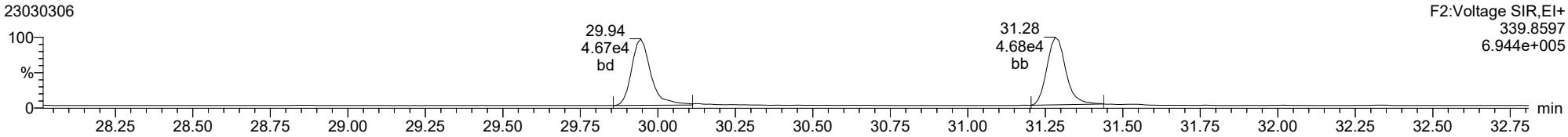

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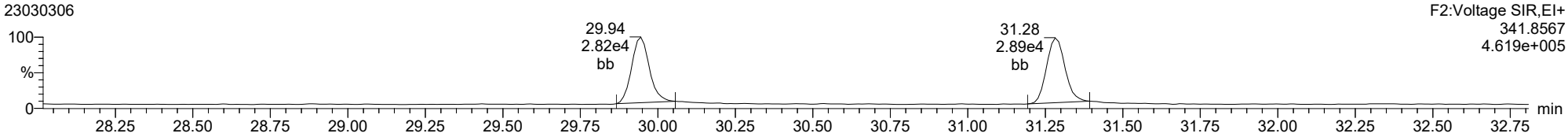

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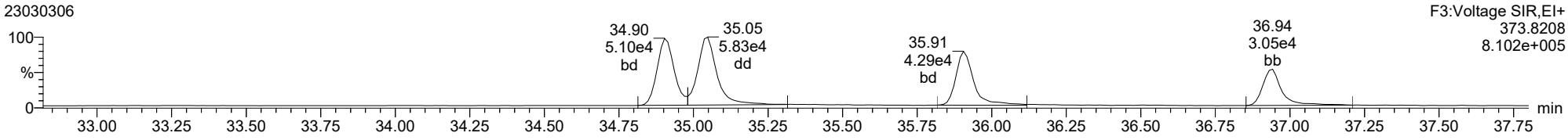

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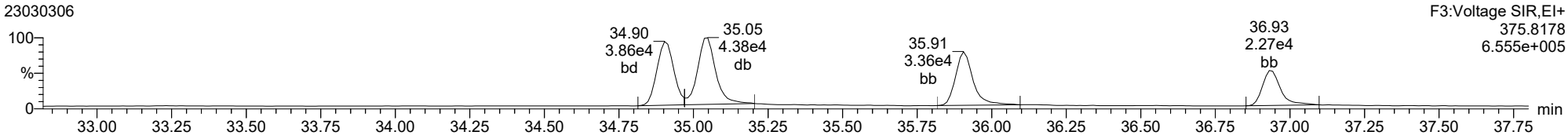

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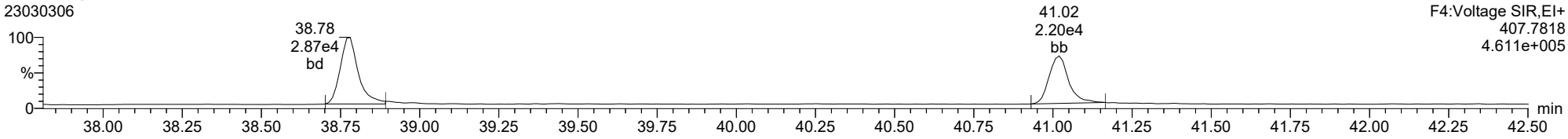

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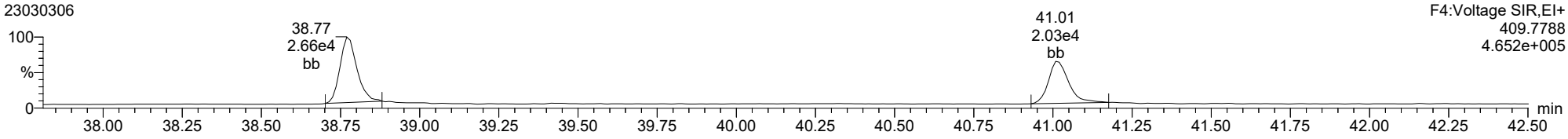

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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	4.563e4	6.298e4	0.702	0.724	0.770	1455	2151	7.03e5	9.46e5	483.4	440.0	NO	bb	bb	10.132
12378-PeCDF	29.945	1.001	2.374e5	1.577e5	0.679	1.505	1.550	2714	2519	3.51e6	2.28e6	1294.3	903.8	NO	bb	bb	49.089
23478-PeCDF	31.282	1.001	2.063e5	1.364e5	0.786	1.512	1.550	2714	2519	3.03e6	1.99e6	1118.0	788.5	NO	bb	bb	49.466
123478-HxCDF	34.903	1.000	2.473e5	1.941e5	1.166	1.275	1.240	3008	2708	3.76e6	2.98e6	1248.4	1099.9	NO	bd	bd	48.979
234678-HxCDF	35.905	1.000	2.404e5	1.930e5	1.140	1.246	1.240	3008	2708	3.53e6	2.85e6	1172.2	1053.8	NO	bb	bb	49.000
123678-HxCDF	35.048	1.001	2.970e5	2.223e5	1.091	1.336	1.240	3008	2708	3.95e6	3.09e6	1312.5	1142.3	NO	db	db	50.520
123789-HxCDF	36.942	1.001	2.103e5	1.706e5	1.137	1.233	1.240	3008	2708	2.89e6	2.30e6	959.2	849.3	NO	bd	bd	50.468
1234678-HpCDF	38.780	1.000	1.592e5	1.601e5	1.003	0.994	1.050	2672	2189	2.51e6	2.53e6	939.2	1157.5	NO	bb	bb	48.161
1234789-HpCDF	41.019	1.000	1.361e5	1.443e5	0.953	0.943	1.050	2672	2189	1.84e6	1.86e6	689.1	851.7	NO	bb	bd	49.244
OCDF	45.247	1.006	2.019e5	2.478e5	0.778	0.815	0.890	1393	1380	2.32e6	2.62e6	1663.0	1900.3	NO	bb	bd	93.418
2378-TCDD	26.424	1.000	5.877e4	7.446e4	1.149	0.789	0.770	1483	1021	8.00e5	1.03e6	539.5	1013.7	NO	bd	bb	9.873
12378-PeCDD	31.538	1.000	1.890e5	1.221e5	1.022	1.548	1.550	1651	2172	2.74e6	1.77e6	1662.3	815.6	NO	bb	bb	49.884
123478-HxCDD	36.028	1.000	1.812e5	1.479e5	0.996	1.225	1.240	1690	2600	2.90e6	2.38e6	1717.5	913.7	NO	bd	bd	48.605
123678-HxCDD	36.139	1.000	2.270e5	1.862e5	1.001	1.219	1.240	1690	2600	3.05e6	2.54e6	1803.3	977.3	NO	db	db	51.480
123789-HxCDD	36.529	1.011	1.887e5	1.546e5	0.907	1.221	1.240	1690	2600	2.71e6	2.20e6	1606.4	846.3	NO	bb	bb	51.083
1234678-HpCDD	40.273	1.000	1.573e5	1.681e5	1.039	0.936	1.050	2523	2313	2.21e6	2.22e6	874.4	957.9	NO	bb	bd	49.956
OCDD	45.009	1.000	2.508e5	2.930e5	0.920	0.856	0.890	1279	1652	2.91e6	3.41e6	2272.5	2065.6	NO	bb	bb	95.487
13C-2378-TCDF	25.774	1.007	6.575e5	8.705e5	1.620	0.755	0.770	2127	1667	9.70e6	1.27e7	4562.2	7600.8	NO	bb	bb	92.139
13C-12378-PeCDF	29.922	1.169	7.106e5	4.742e5	1.240	1.498	1.550	3150	3257	9.76e6	6.54e6	3098.5	2009.5	NO	bd	bd	93.316
13C-23478-PeCDF	31.259	1.221	5.241e5	3.573e5	1.118	1.467	1.550	3150	3257	7.68e6	5.27e6	2437.6	1617.5	NO	bb	bb	77.038
13C-123478-HxCDF	34.891	0.956	2.605e5	5.124e5	1.168	0.508	0.510	2130	2302	3.94e6	7.71e6	1851.1	3349.5	NO	bd	bd	95.975
13C-123678-HxCDF	35.025	0.959	3.029e5	6.396e5	1.386	0.474	0.510	2130	2302	4.25e6	8.39e6	1994.1	3646.7	NO	db	db	98.624
13C-234678-HxCDF	35.894	0.983	2.705e5	5.057e5	1.129	0.535	0.510	2130	2302	3.77e6	7.17e6	1772.4	3115.7	NO	bd	bb	99.718
13C-123789-HxCDF	36.919	1.011	2.253e5	4.385e5	0.932	0.514	0.510	2130	2302	3.30e6	6.48e6	1548.0	2814.2	NO	bb	bb	103.358
13C-1234678-HpCDF	38.769	1.062	2.032e5	4.578e5	0.895	0.444	0.440	2209	3025	3.15e6	7.13e6	1428.1	2357.0	NO	bb	bb	107.118
13C-1234789-HpCDF	41.008	1.123	1.757e5	4.217e5	0.770	0.417	0.440	2209	3025	2.29e6	5.20e6	1036.4	1717.4	NO	bb	bb	112.595
13C-1234-TCDD	25.605	0.000	4.555e5	5.681e5	1.000	0.802	0.770	2485	1606	6.85e6	8.57e6	2757.9	5335.2	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	5.228e5	6.520e5	1.152	0.802	0.770	2485	1606	7.70e6	9.63e6	3097.5	5999.3	NO	bb	bb	99.597
13C-12378-PeCDD	31.527	1.231	3.747e5	2.356e5	0.829	1.590	1.550	1413	1348	5.28e6	3.29e6	3736.6	2437.5	NO	bb	bb	71.936
13C-123478-HxCDD	36.017	0.986	3.837e5	2.963e5	0.995	1.295	1.240	1796	1719	5.91e6	4.54e6	3293.9	2638.3	NO	bd	bd	99.140
13C-123678-HxCDD	36.128	0.989	4.675e5	3.344e5	1.157	1.398	1.240	1796	1719	6.38e6	4.87e6	3554.2	2831.4	NO	db	db	100.573
13C-1234678-HpCDD	40.262	1.102	3.210e5	3.059e5	0.840	1.049	1.050	2165	1959	4.38e6	4.15e6	2024.2	2117.7	NO	bb	bb	108.247
13C-OCDD	44.990	1.232	6.075e5	6.305e5	0.767	0.963	0.890	2629	1930	6.50e6	7.26e6	2473.3	3761.0	NO	bd	bb	234.029
13C-123789-HxCDD	36.518	0.000	3.849e5	3.043e5	1.000	1.265	1.240	1796	1719	5.52e6	4.36e6	3076.5	2537.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.032	1.159e5		1.288			2383		1.68e6		703.2			bb		8.796

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.285	0.865	5.143e4	7.104e4	0.802	0.724	0.770	1455	2151	8.64e5	1.17e6	593.7	544.2	NO	bb	bb	10.000
1289-TCDF	27.286	1.059	4.449e4	5.910e4	0.678	0.753	0.770	1455	2151	6.41e5	8.65e5	440.8	402.3	NO	bb	db	10.000
13468-PECDF	27.144	0.907	4.471e5	2.913e5	1.246	1.535	1.550	765	1431	6.85e6	4.42e6	8952.4	3092.4	NO	bb	bb	50.000
12389-PECDF	32.318	1.080	1.756e5	1.185e5	0.496	1.482	1.550	2714	2519	2.46e6	1.67e6	905.1	663.5	NO	bb	bb	50.000
123468-HXCDF	33.243	0.953	2.474e5	2.044e5	1.169	1.210	1.240	3008	2708	3.57e6	2.89e6	1187.3	1066.9	NO	bb	bd	50.000
1368-TCDD	23.557	0.892	5.333e4	6.596e4	1.015	0.808	0.770	1483	1021	8.25e5	1.09e6	556.5	1064.4	NO	bb	bb	10.000
1289-TCDD	27.031	1.023	4.649e4	6.027e4	0.909	0.771	0.770	1483	1021	6.71e5	8.87e5	452.4	868.9	NO	bb	bb	10.000
12479-PECDD	28.830	0.914	4.152e5	2.870e5	2.301	1.447	1.550	1651	2172	3.89e6	2.64e6	2354.1	1214.5	NO	bb	bd	50.000
12389-PECDD	31.939	1.013	2.202e5	1.409e5	1.184	1.563	1.550	1651	2172	2.97e6	1.93e6	1798.8	887.7	NO	bd	bd	50.000
124679-HXCDD	34.011	0.944	2.133e5	1.659e5	1.115	1.286	1.240	1690	2600	2.98e6	2.42e6	1762.3	930.8	NO	bd	bb	50.000
1234679-HPCDD	39.225	0.974	1.868e5	1.696e5	1.137	1.101	1.050	2523	2313	2.68e6	2.60e6	1062.7	1125.2	NO	bd	bb	50.000
Total-tetrafurans			1.415e5		0.727			1455		2.21e6							30.132
Total-penta1			4.471e5					765		6.85e6							50.000
Total-pentafurans			6.595e5		0.654			2714		9.58e6							158.378
Total-hexafurans			1.243e6		1.141			3008		1.77e7							249.074
Total-heptafurans			2.965e5		0.978			2672		4.37e6							97.824
Total-Furans			2.990e6		0.922			1455		4.30e7							678.826
Total-tetradioxins			2.666e5		1.024			1483		3.52e6							50.252
Total-pentadioxins			8.253e5		1.502			1651		9.61e6							150.025
Total-hexadioxins			8.102e5		1.005			1690		1.16e7							201.167
Total-heptadioxins			3.440e5		1.088			2523		4.89e6							99.956
Total-Dioxins			2.497e6		1.130			1483		3.26e7							596.887
Total-TEQ			5.487e6					1483		7.56e7							1275.713
FUNCTION1 PFK			2.078e5					640846		4.44e6							
FUNCTION2 PFK			1.544e7					302960		1.17e7							0.000
FUNCTION3 PFK			6.335e6					441696		3.43e7							0.000
FUNCTION4 PFK			1.606e7					302692		2.36e6							
FUNCTION5 PFK			3.357e4					240421		1.60e6							
FUNCTION1 HXCD...			1.444e3					587		1.68e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.034e2					1003		1.66e4							0.000
FUNCTION3 OCDPE			5.560e2					494		8.57e3							0.000
FUNCTION4 NCDPE			9.205e2					776		1.78e4							0.000
FUNCTION5 DCDPE			9.291e1					548		1.29e3							0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
2	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
3	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
4	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
5	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
2	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
3	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
4	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
5	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
6	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
2	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
3	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000
4	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
5	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
6	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
7	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
8	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712
9	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
10	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
11	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
12	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
13	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
14	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000
15	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
16	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
17	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161
18	OCDF	45.25	2.019e5	2.478e5	0.778	0.81	0.89	1663.0	YES	NO	bb	bd	93.418
19	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
2	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
3	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
4	Total-tetradioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
5	Total-tetradioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
6	Total-tetradioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
2	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
3	Total-pentadioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
4	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
2	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
3	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
4	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
2	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
2	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
3	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
4	Total-tetradioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
5	Total-tetradioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
6	Total-tetradioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108
7	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
8	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
9	Total-pentadioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
10	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000
11	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
12	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
13	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
14	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000
15	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
16	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000
17	OCDD	45.01	2.508e5	2.930e5	0.920	0.86	0.89	2272.5	YES	NO	bb	bb	95.487

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000
4	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
5	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
6	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
7	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
8	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712
9	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
10	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
11	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
12	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
13	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
14	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000
15	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
16	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
17	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161
18	OCDF	45.25	2.019e5	2.478e5	0.778	0.81	0.89	1663.0	YES	NO	bb	bd	93.418
19	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000
20	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
21	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
22	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
23	Total-tetradioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
24	Total-tetradioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
25	Total-tetradioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108
26	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
27	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
28	Total-pentadioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
29	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000
30	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
31	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
32	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
33	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000
34	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
35	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000
36	OCDD	45.01	2.508e5	2.930e5	0.920	0.86	0.89	2272.5	YES	NO	bb	bb	95.487

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.24	1.621e5					3.0	YES		bb		
2	FUNCTION1 PFK	26.04	7.004e3					0.8	NO		bb		
3	FUNCTION1 PFK	25.20	1.505e4					1.0	NO		bb		
4	FUNCTION1 PFK	24.33	1.235e4					0.8	NO		bb		
5	FUNCTION1 PFK	23.94	5.589e3					0.6	NO		bb		
6	FUNCTION1 PFK	23.61	5.711e3					0.6	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.40	1.216e5					2.2	NO		bb		0.000
2	FUNCTION2 PFK	29.43	1.324e7					19.8	YES		db		0.000
3	FUNCTION2 PFK	28.41	2.080e6					16.6	YES		bd		0.000

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.64	4.177e4					1.9	NO		bb		0.000
2	FUNCTION3 PFK	33.49	1.199e5					5.0	YES		db		0.000
3	FUNCTION3 PFK	33.44	2.654e6					7.0	YES		dd		0.000
4	FUNCTION3 PFK	33.06	2.958e6					23.7	YES		bd		0.000
5	FUNCTION3 PFK	35.38	2.169e4					1.0	NO		bb		0.000
6	FUNCTION3 PFK	35.25	5.928e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	35.11	7.037e3					0.7	NO		bb		0.000
8	FUNCTION3 PFK	34.99	1.627e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.92	1.103e4					1.1	NO		db		0.000
10	FUNCTION3 PFK	34.86	1.305e4					1.0	NO		bd		0.000
11	FUNCTION3 PFK	34.80	9.642e3					0.9	NO		bb		0.000
12	FUNCTION3 PFK	34.66	1.233e4					0.9	NO		db		0.000
13	FUNCTION3 PFK	34.64	7.688e3					0.8	NO		bd		0.000
14	FUNCTION3 PFK	34.57	9.132e3					0.8	NO		bb		0.000
15	FUNCTION3 PFK	34.47	7.208e3					0.8	NO		bb		0.000
16	FUNCTION3 PFK	34.31	1.503e4					1.0	NO		bb		0.000
17	FUNCTION3 PFK	34.22	2.675e4					1.4	NO		bb		0.000
18	FUNCTION3 PFK	34.01	3.007e4					2.1	NO		db		0.000
19	FUNCTION3 PFK	33.97	1.328e4					1.1	NO		bd		0.000
20	FUNCTION3 PFK	33.91	6.249e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	36.99	2.219e4					1.1	NO		bd		0.000
22	FUNCTION3 PFK	36.87	2.133e3					0.4	NO		bb		0.000
23	FUNCTION3 PFK	36.83	5.225e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	36.70	4.929e4					1.7	NO		bb		0.000
25	FUNCTION3 PFK	36.43	1.980e4					1.2	NO		bb		0.000
26	FUNCTION3 PFK	36.38	7.184e3					0.9	NO		bb		0.000
27	FUNCTION3 PFK	36.27	4.220e3					0.5	NO		bb		0.000
28	FUNCTION3 PFK	36.24	2.102e3					0.4	NO		bb		0.000
29	FUNCTION3 PFK	36.19	3.748e3					0.5	NO		bb		0.000
30	FUNCTION3 PFK	35.87	3.133e4					1.6	NO		db		0.000
31	FUNCTION3 PFK	35.83	1.912e4					1.5	NO		bd		0.000
32	FUNCTION3 PFK	35.78	2.675e3					0.4	NO		db		0.000
33	FUNCTION3 PFK	35.74	3.023e4					1.5	NO		dd		0.000
34	FUNCTION3 PFK	35.67	1.673e4					1.4	NO		bd		0.000
35	FUNCTION3 PFK	35.58	2.145e4					1.4	NO		db		0.000
36	FUNCTION3 PFK	35.53	1.268e4					1.1	NO		bd		0.000
37	FUNCTION3 PFK	37.67	2.243e4					1.6	NO		bb		0.000

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	37.45	8.583e3					0.7	NO		db		0.000
39	FUNCTION3 PFK	37.43	4.891e3					0.7	NO		bd		0.000
40	FUNCTION3 PFK	37.30	6.956e3					0.6	NO		bb		0.000
41	FUNCTION3 PFK	37.23	5.682e3					0.7	NO		db		0.000
42	FUNCTION3 PFK	37.20	9.815e3					0.9	NO		dd		0.000
43	FUNCTION3 PFK	37.15	5.475e3					0.6	NO		dd		0.000
44	FUNCTION3 PFK	37.11	7.631e3					0.8	NO		bd		0.000
45	FUNCTION3 PFK	37.06	2.709e4					1.4	NO		db		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.40	1.889e5					2.4	NO		bb		
2	FUNCTION4 PFK	39.68	1.587e7					5.4	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.63	9.422e3					1.5	NO		bb		
2	FUNCTION5 PFK	43.24	1.576e3					0.7	NO		bb		
3	FUNCTION5 PFK	43.00	1.263e4					1.7	NO		bb		
4	FUNCTION5 PFK	45.90	6.371e3					1.4	NO		bb		
5	FUNCTION5 PFK	45.34	1.310e3					0.6	NO		bb		
6	FUNCTION5 PFK	43.79	2.270e3					0.7	NO		bb		

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.16	2.360e2					3.4	YES		bb		0.000
2	FUNCTION1 HXCD...	26.52	1.410e2					3.2	YES		db		0.000
3	FUNCTION1 HXCD...	26.41	1.480e2					3.3	YES		bd		0.000
4	FUNCTION1 HXCD...	26.16	8.707e1					1.9	NO		db		0.000
5	FUNCTION1 HXCD...	26.10	7.515e1					2.1	NO		bd		0.000
6	FUNCTION1 HXCD...	25.79	8.971e1					2.2	NO		bb		0.000
7	FUNCTION1 HXCD...	25.63	1.156e2					2.5	NO		bb		0.000
8	FUNCTION1 HXCD...	24.52	1.119e2					2.7	NO		db		0.000
9	FUNCTION1 HXCD...	24.43	1.844e2					3.5	YES		bd		0.000
10	FUNCTION1 HXCD...	23.75	1.728e2					2.1	NO		bb		0.000
11	FUNCTION1 HXCD...	21.31	8.251e1					1.7	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.95	1.010e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	31.18	4.333e2					5.6	YES		bb		0.000
3	FUNCTION2 HPCD...	30.70	7.244e1					2.1	NO		bb		0.000
4	FUNCTION2 HPCD...	30.31	7.131e1					1.6	NO		bb		0.000
5	FUNCTION2 HPCD...	29.76	7.422e1					1.6	NO		bb		0.000
6	FUNCTION2 HPCD...	29.04	7.307e1					1.9	NO		bb		0.000
7	FUNCTION2 HPCD...	28.55	7.813e1					2.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	1.400e2					5.4	YES		bb		0.000
2	FUNCTION3 OCDPE	35.04	1.909e2					5.6	YES		db		0.000
3	FUNCTION3 OCDPE	34.94	2.251e2					6.4	YES		bd		0.000

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.60	9.374e1					3.5	YES		bb		0.000
2	FUNCTION4 NCDPE	40.25	1.903e2					3.2	YES		bb		0.000
3	FUNCTION4 NCDPE	39.09	7.390e1					1.9	NO		bb		0.000
4	FUNCTION4 NCDPE	38.97	7.768e1					2.4	NO		bb		0.000
5	FUNCTION4 NCDPE	41.21	8.604e1					3.3	YES		bb		0.000
6	FUNCTION4 NCDPE	41.01	1.089e2					3.1	YES		bb		0.000
7	FUNCTION4 NCDPE	40.86	1.930e2					2.9	NO		db		0.000
8	FUNCTION4 NCDPE	40.74	9.692e1					2.6	NO		bd		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.90	9.291e1					2.4	NO		bb		0.000

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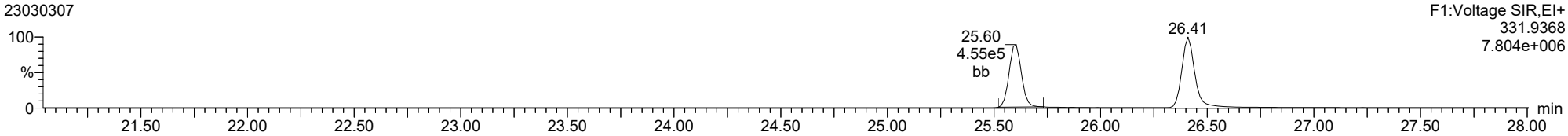
ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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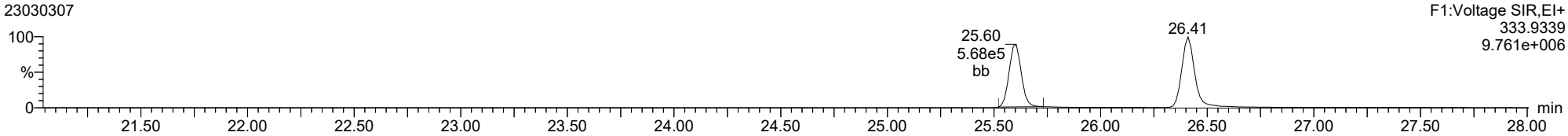

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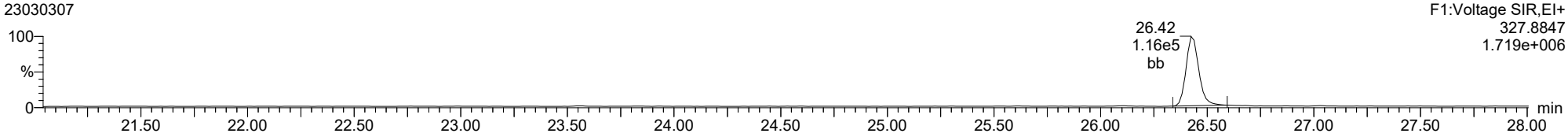

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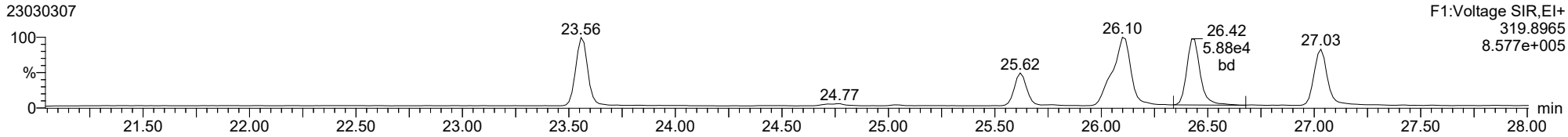
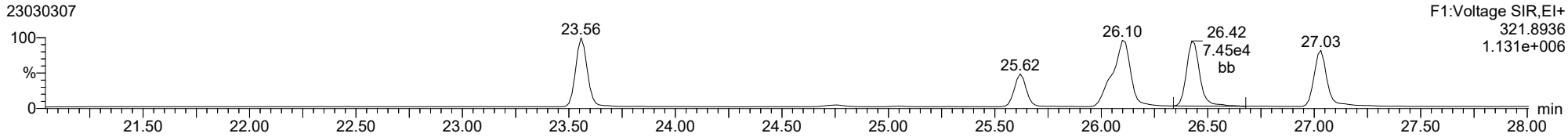
2378-TCDD



2378-TCDD



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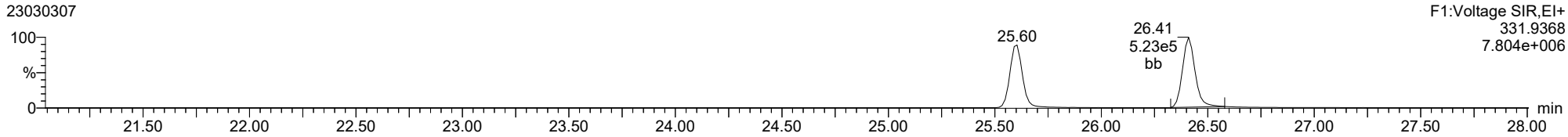

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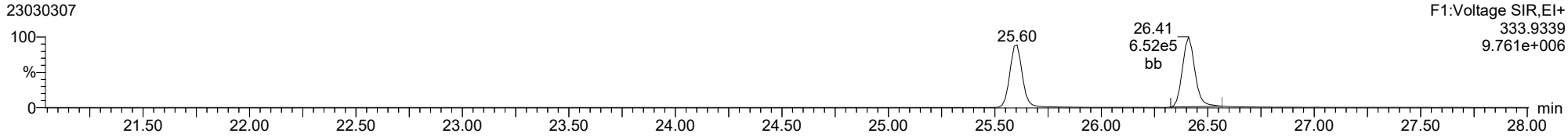

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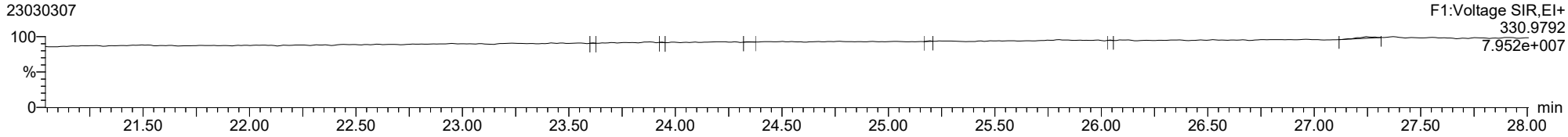

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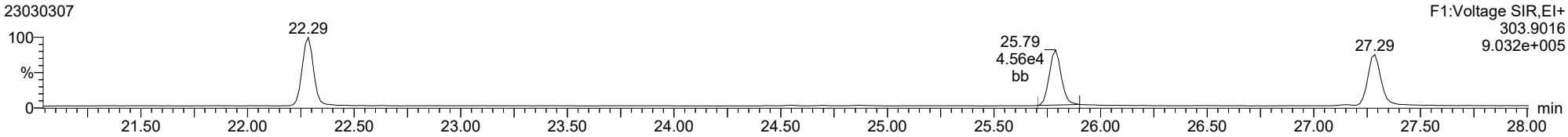
2378-TCDF



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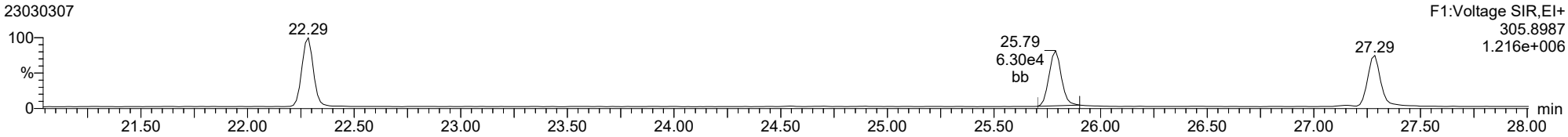

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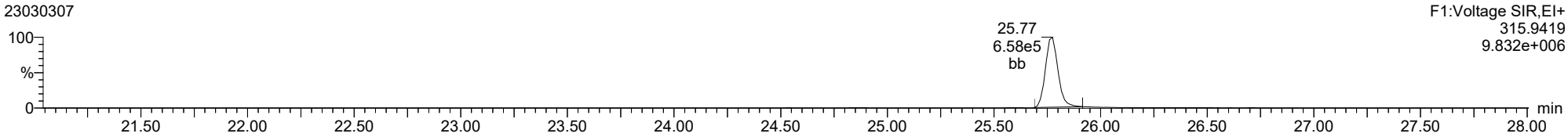

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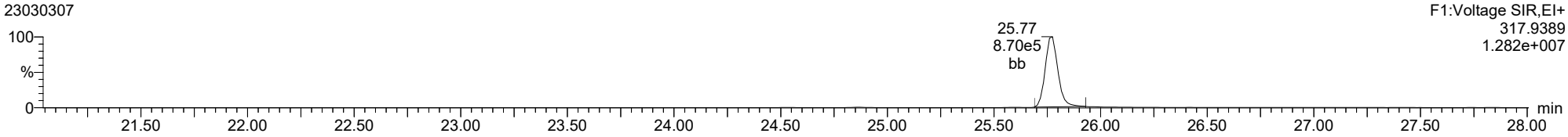

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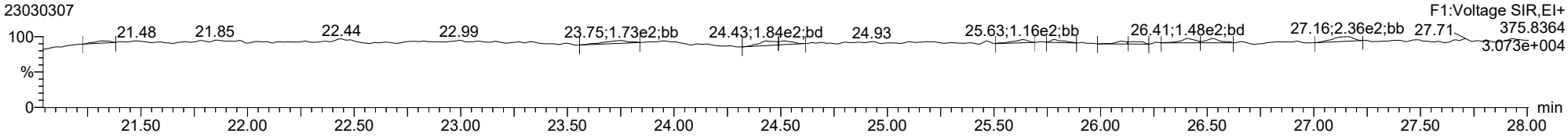

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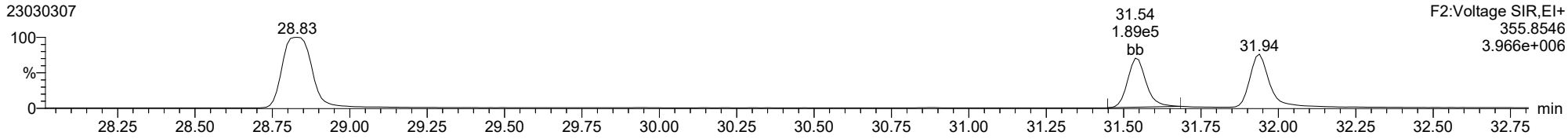
12378-PeCDD



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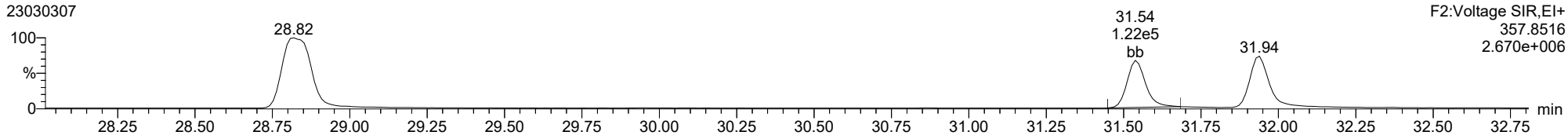

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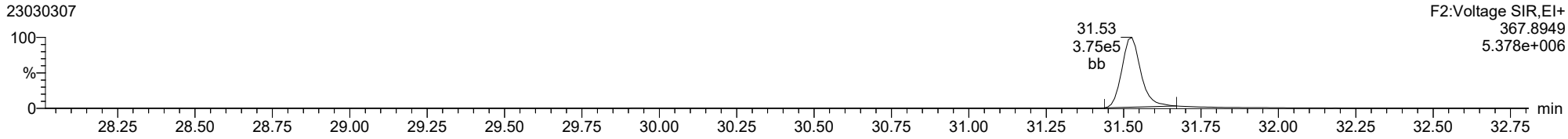

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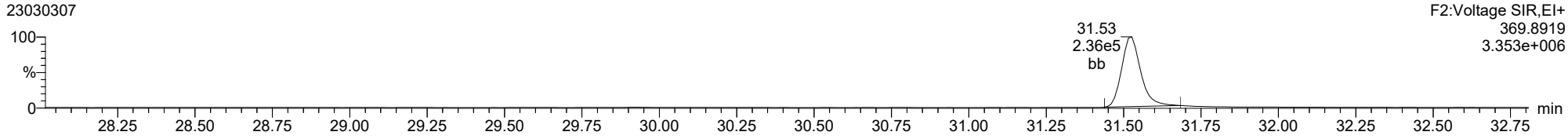

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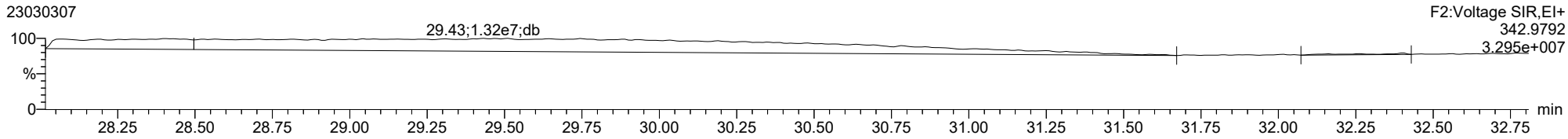

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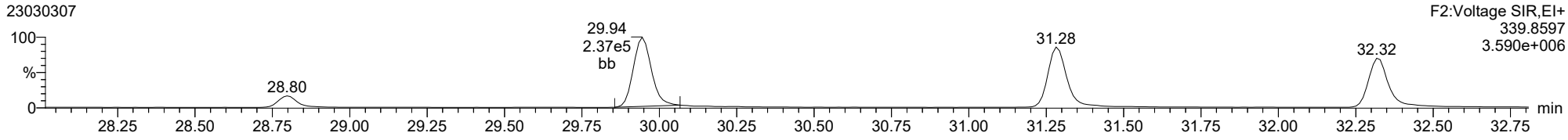
12378-PeCDF



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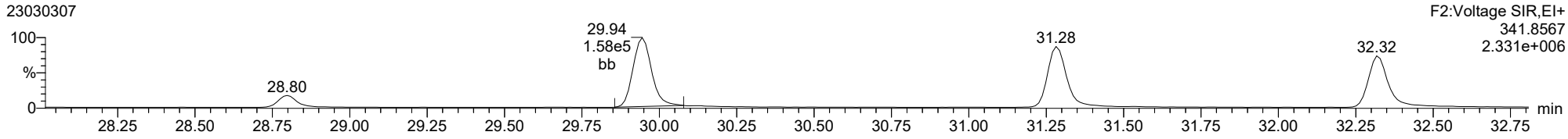

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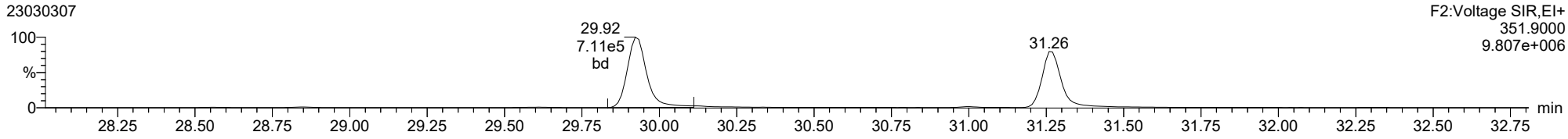

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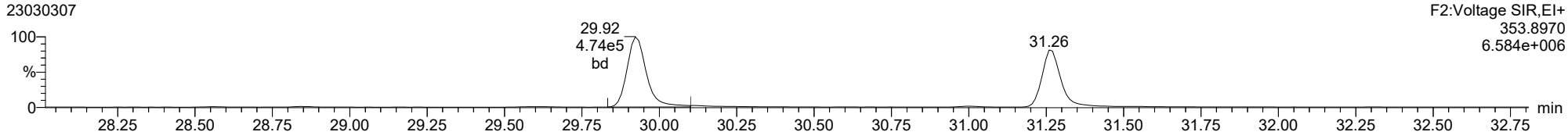
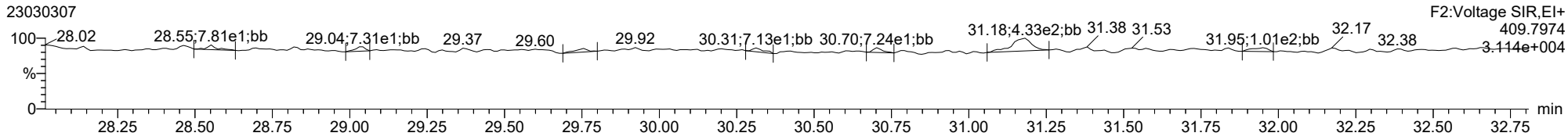


FUNCTION2 HPCDPE



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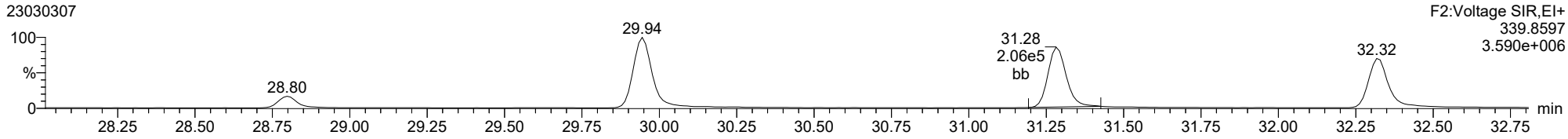
23478-PeCDF



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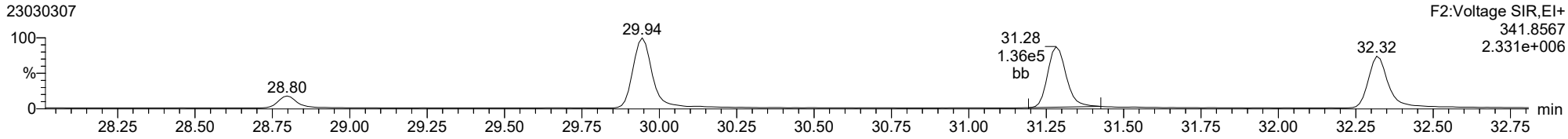

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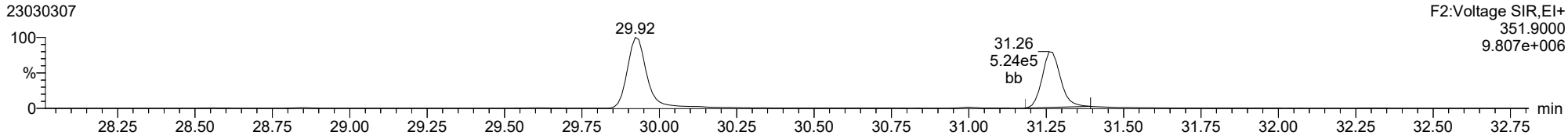

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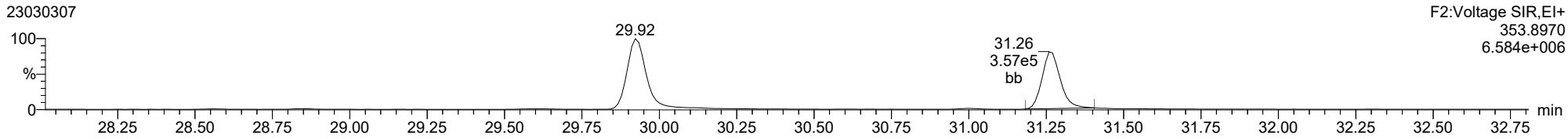
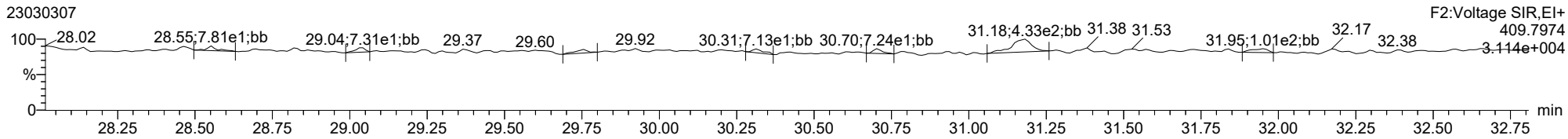


FUNCTION2 HPCDPE



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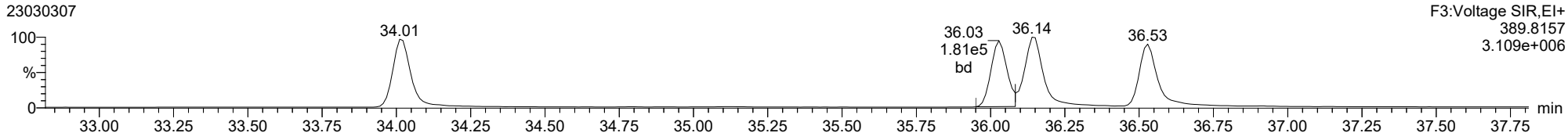

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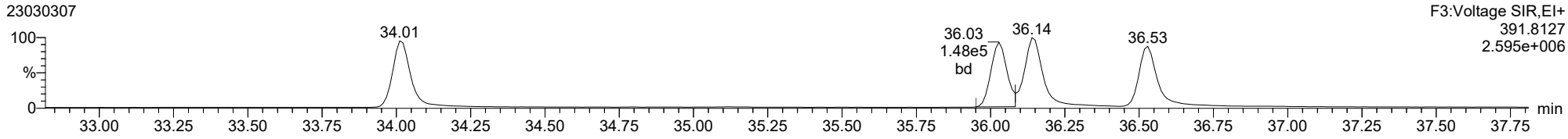

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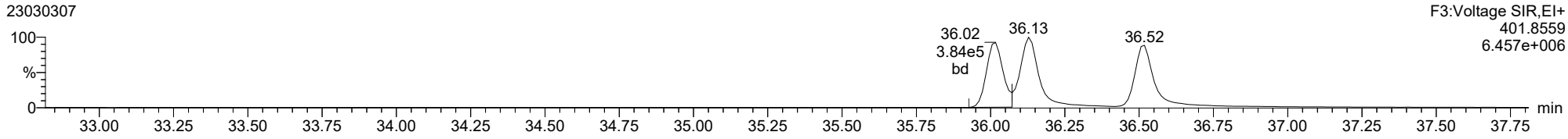

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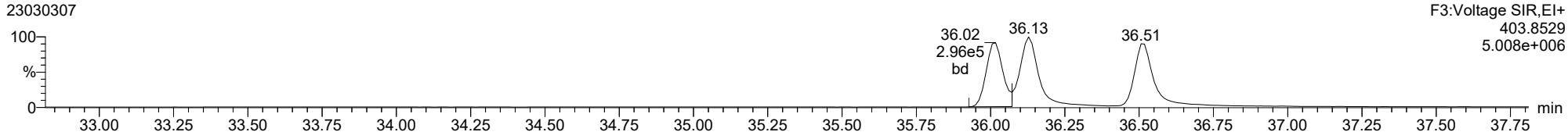
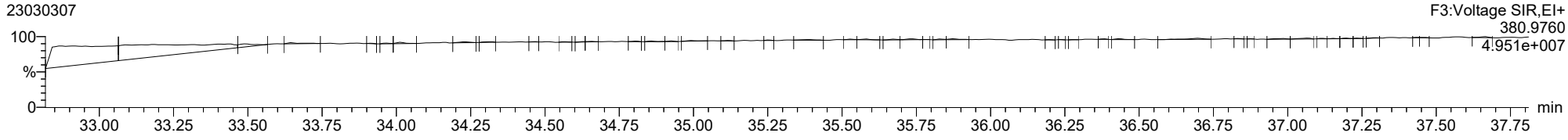


FUNCTION3 PFK



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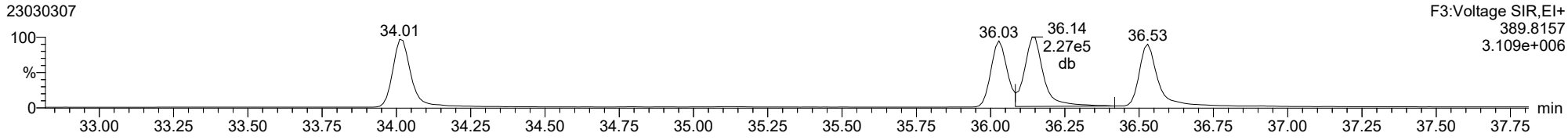

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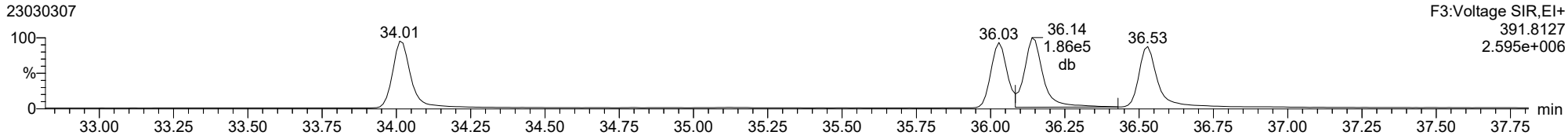

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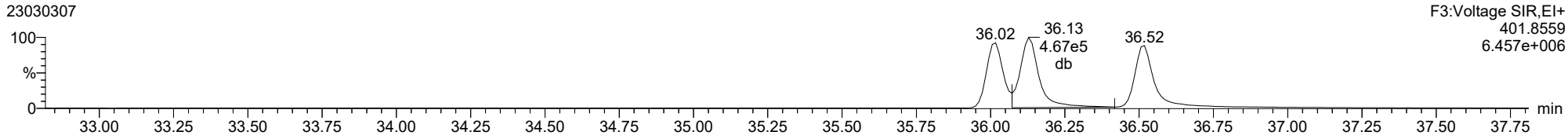

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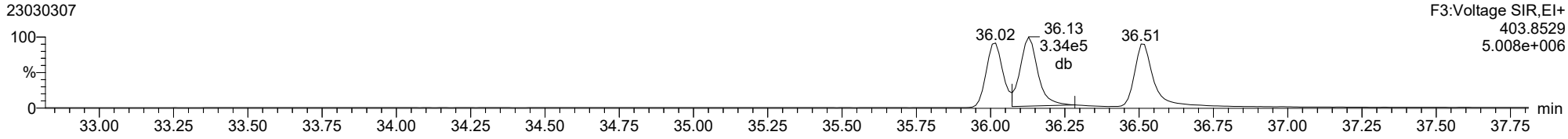

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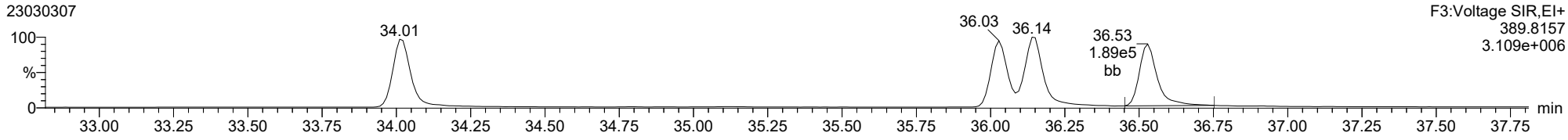

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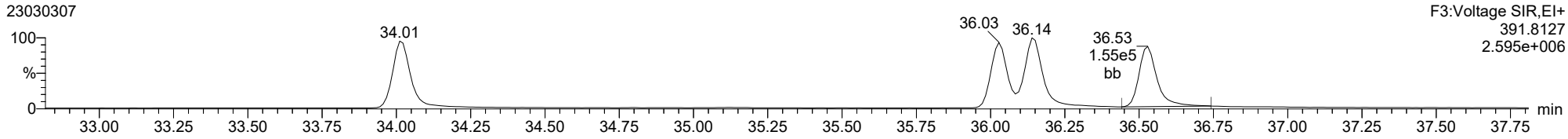

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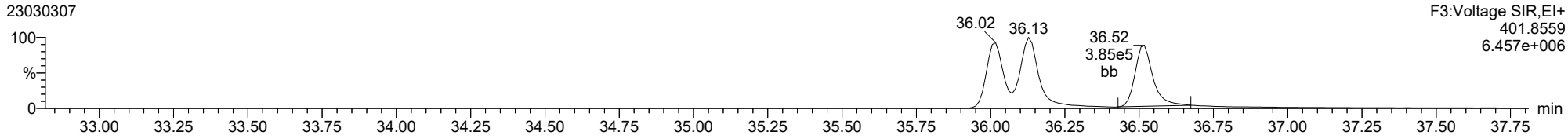

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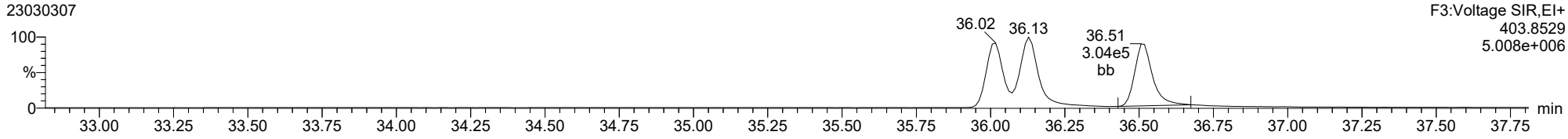

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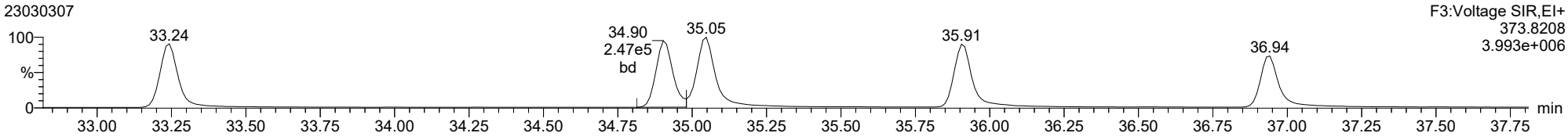
123478-HxCDF



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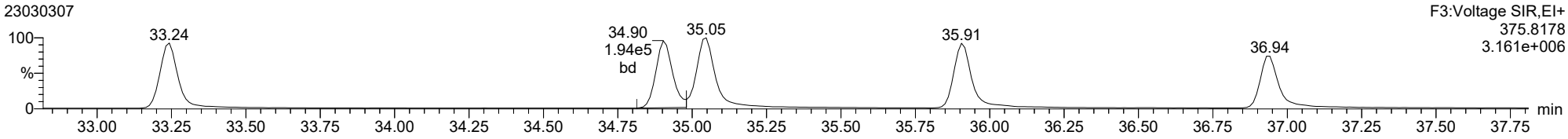

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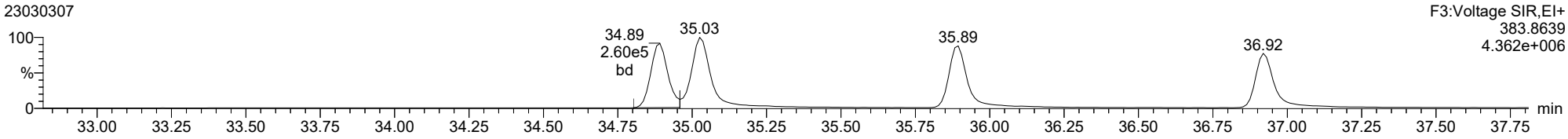

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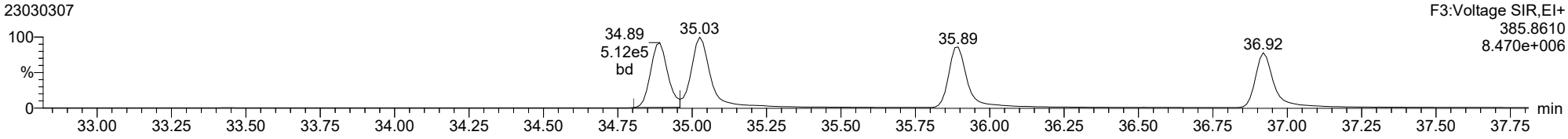
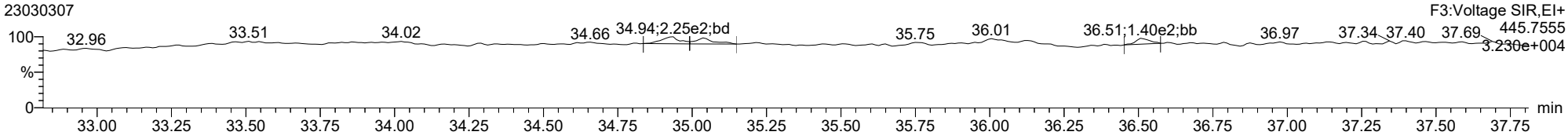


FUNCTION3 OCDPE



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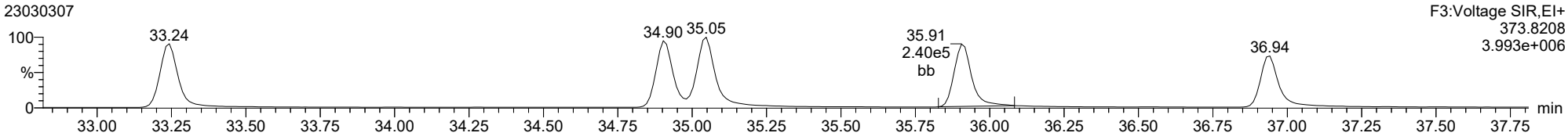
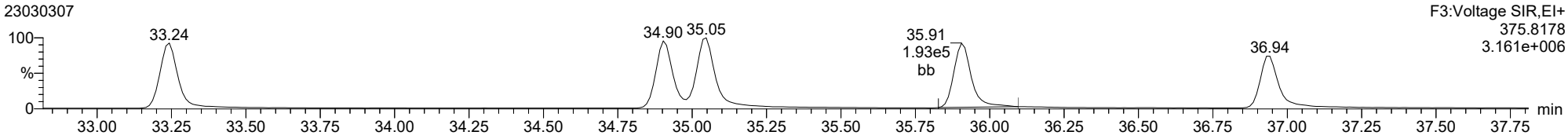
234678-HxCDF



234678-HxCDF



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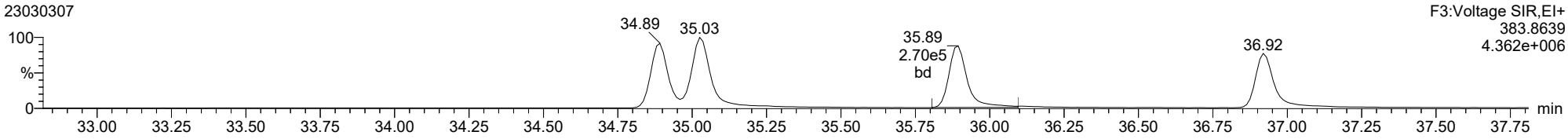

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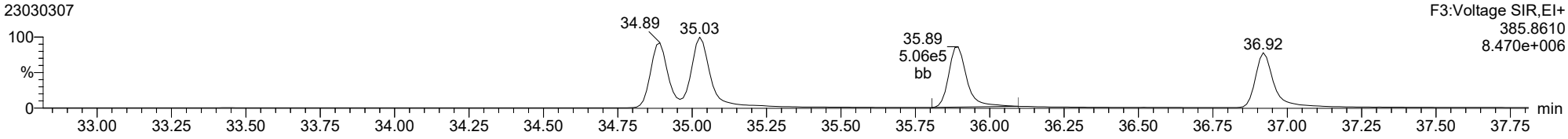
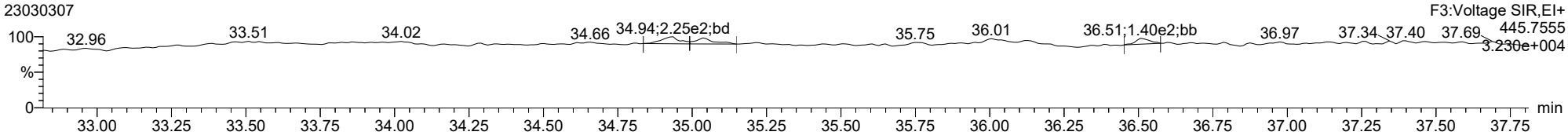


FUNCTION3 OCDPE



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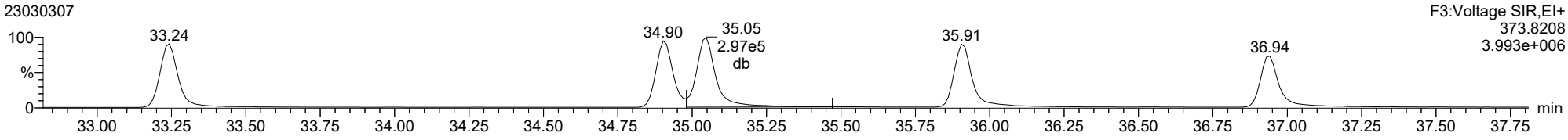
123678-HxCDF



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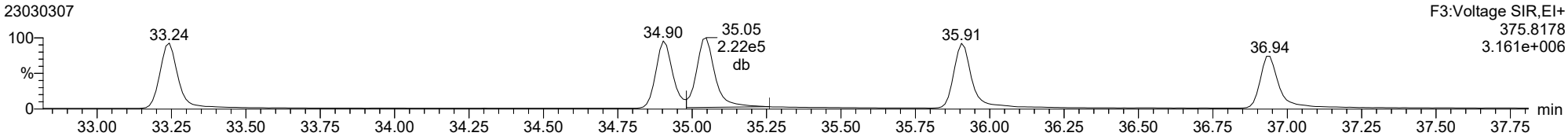

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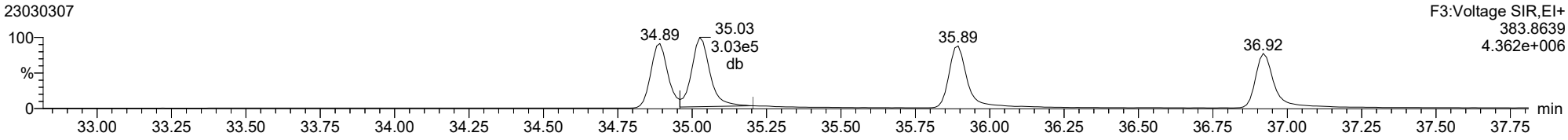

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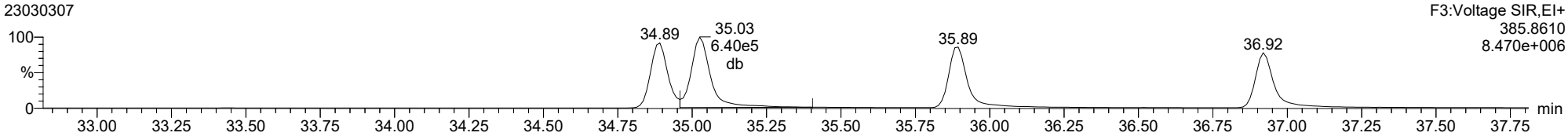

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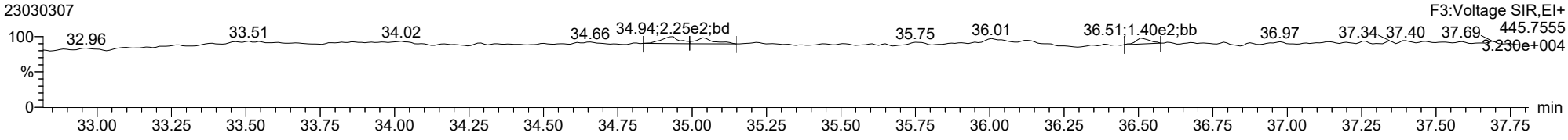

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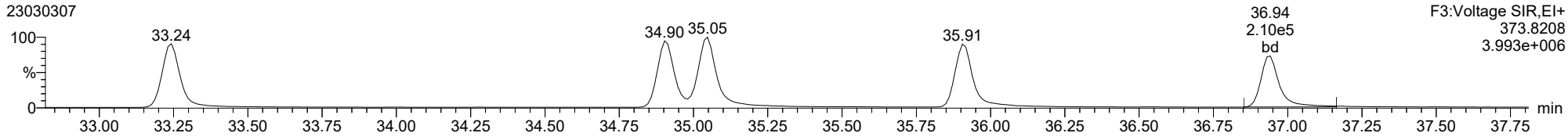

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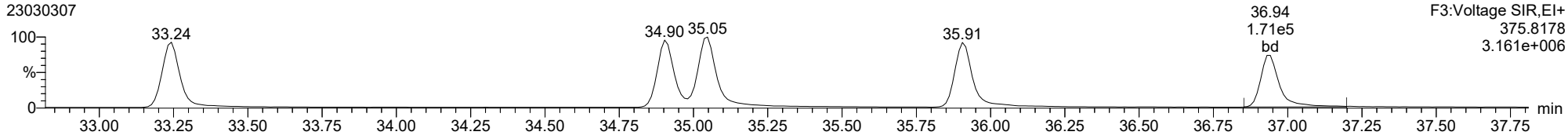

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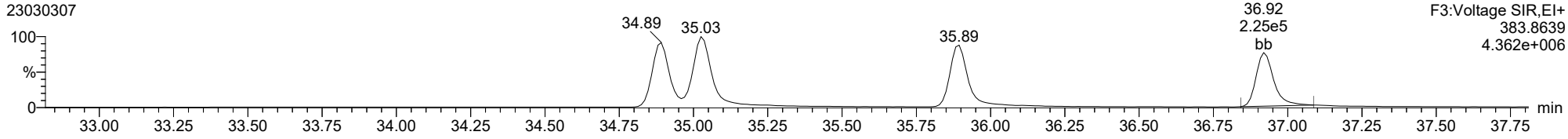

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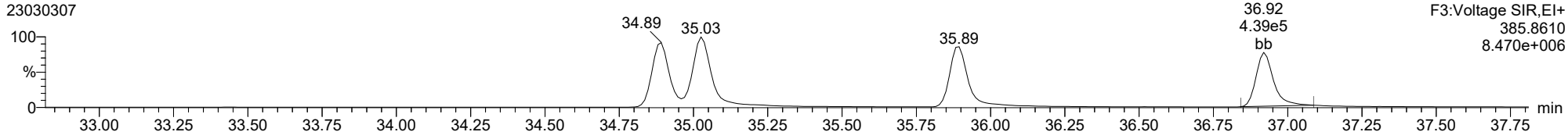

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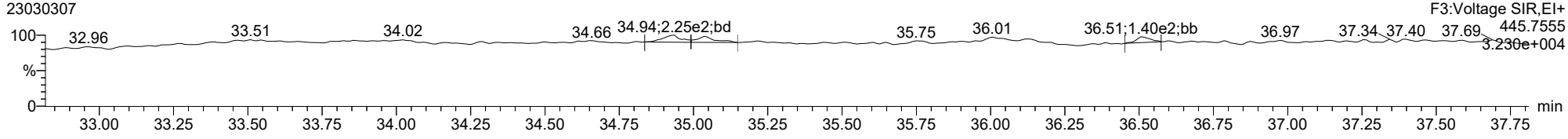

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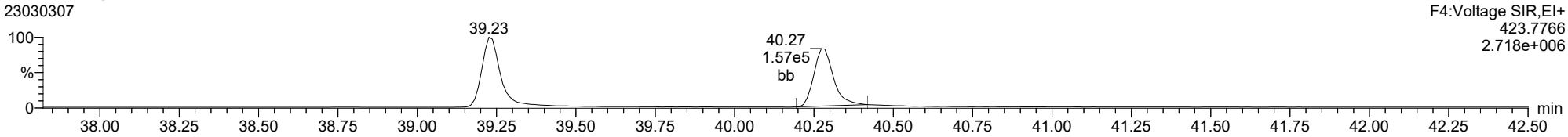

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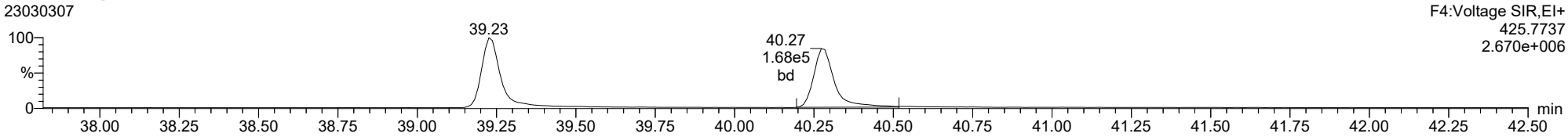

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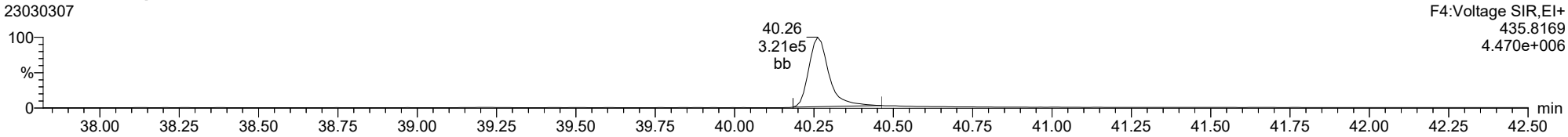

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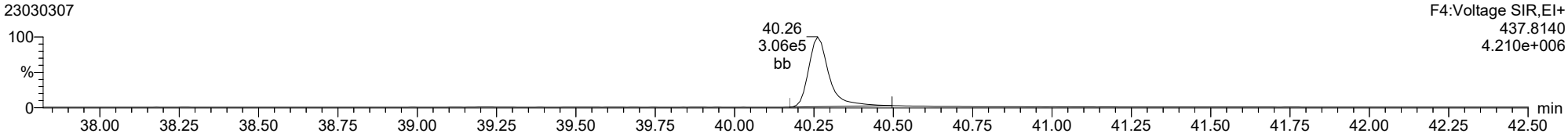

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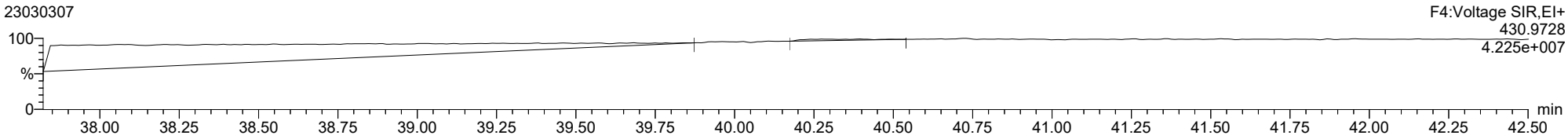

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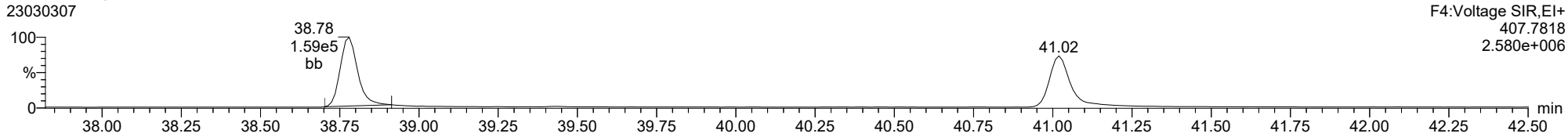

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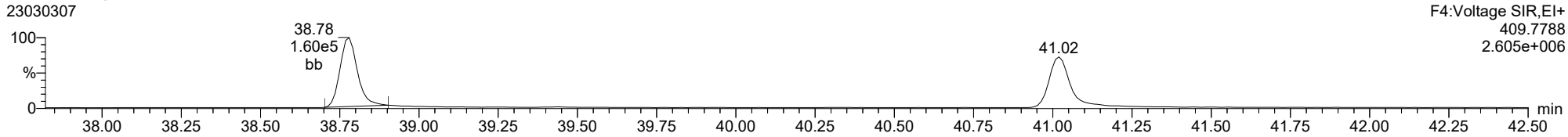

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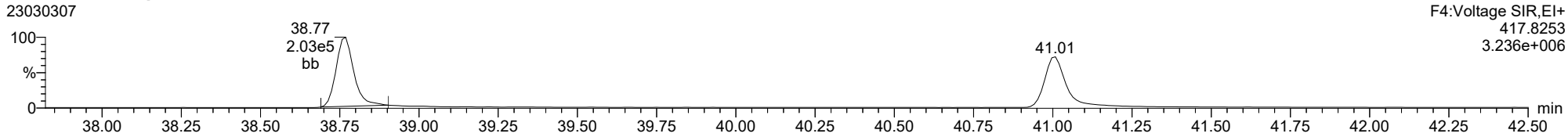

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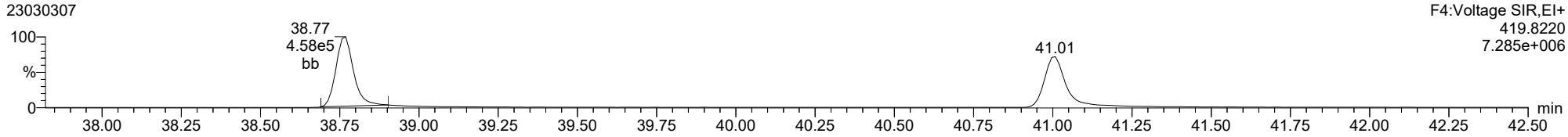

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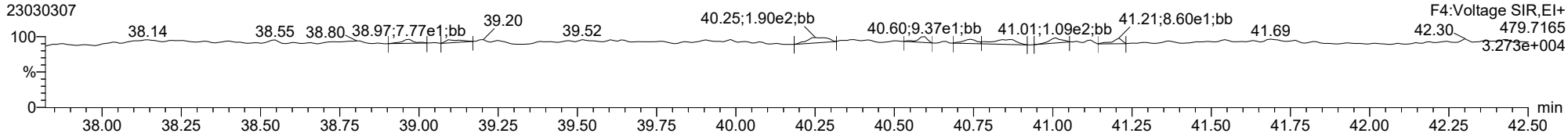

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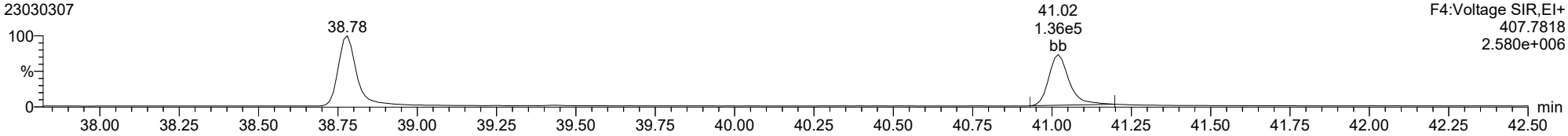

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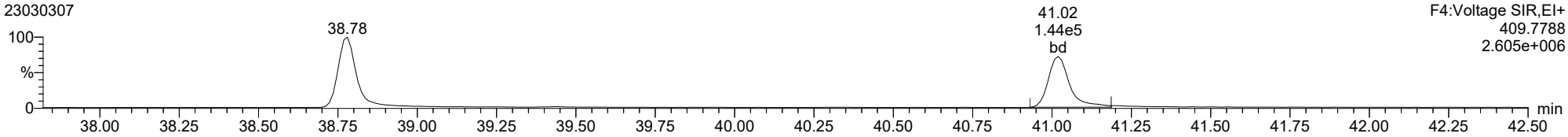

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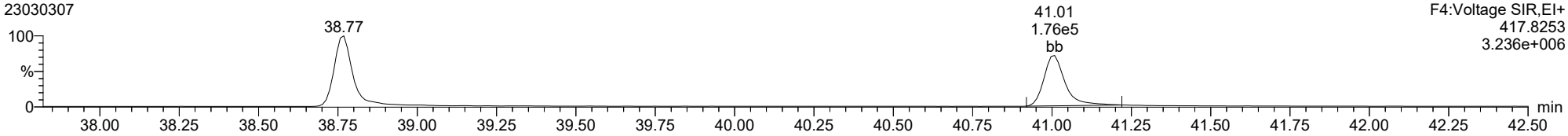

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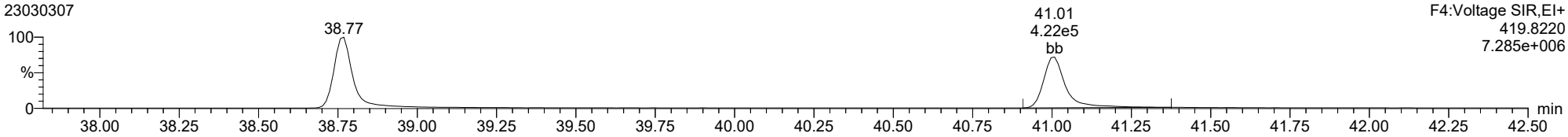
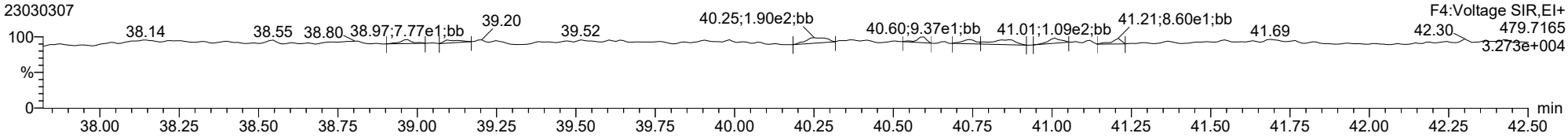


FUNCTION4 NCDPE



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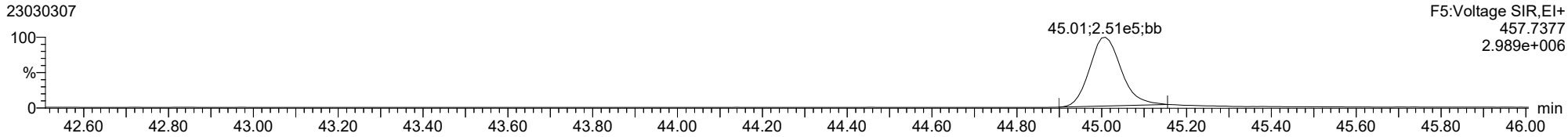

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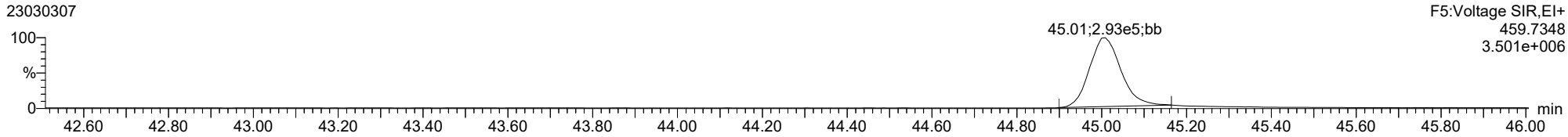

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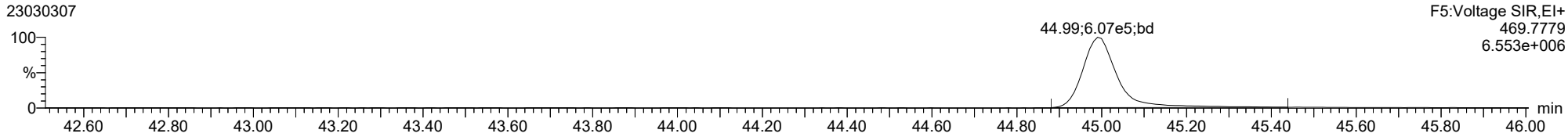

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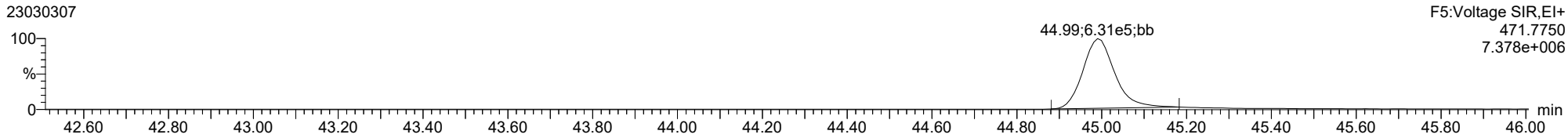

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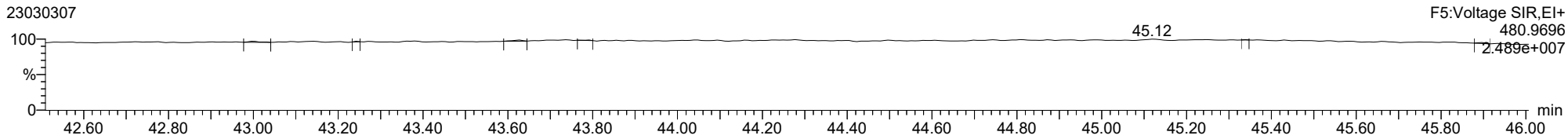

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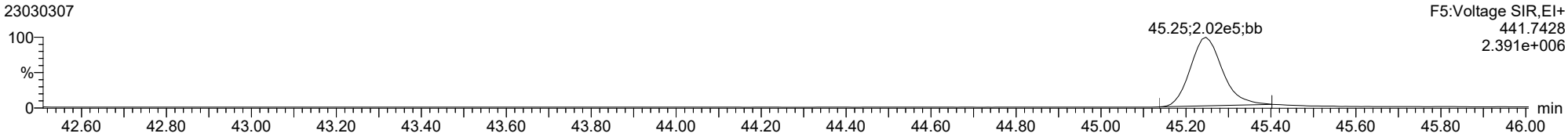

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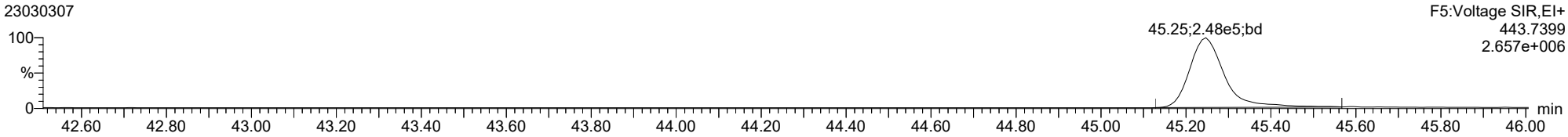
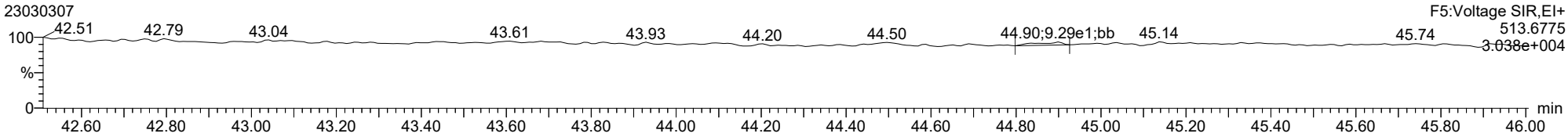


FUNCTION5 DCDPE



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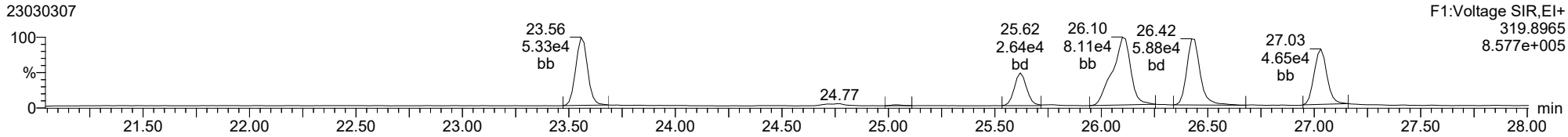
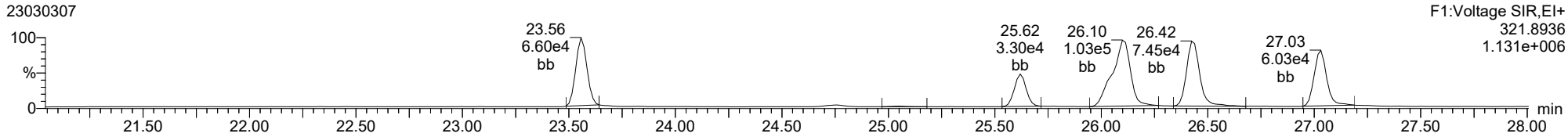
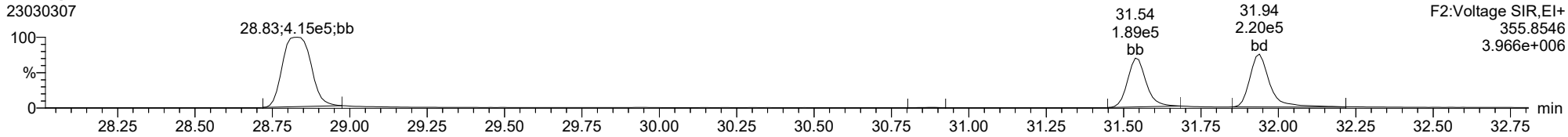
Total-tetradioxins



Total-tetradioxins



Total-pentadioxins



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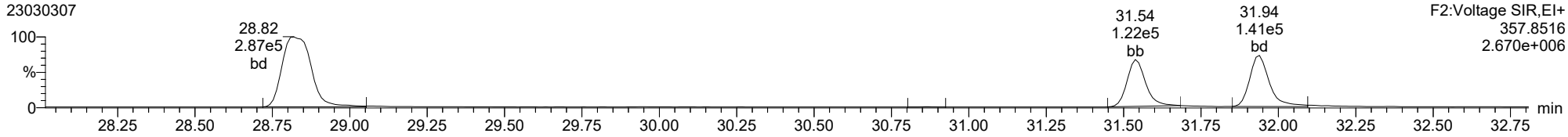

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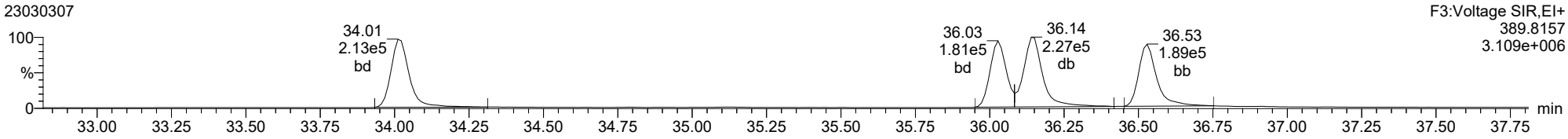

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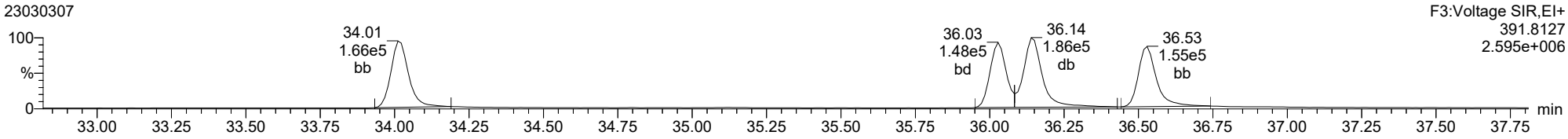

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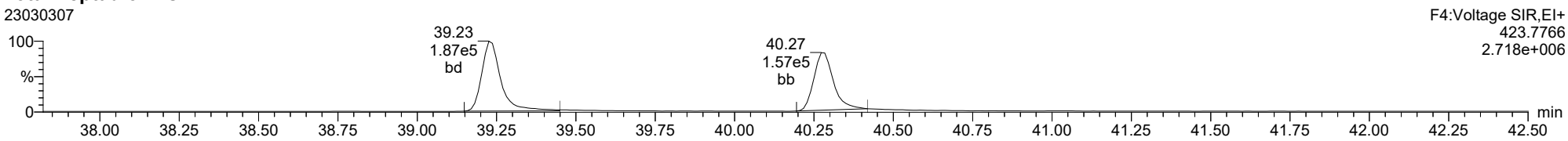
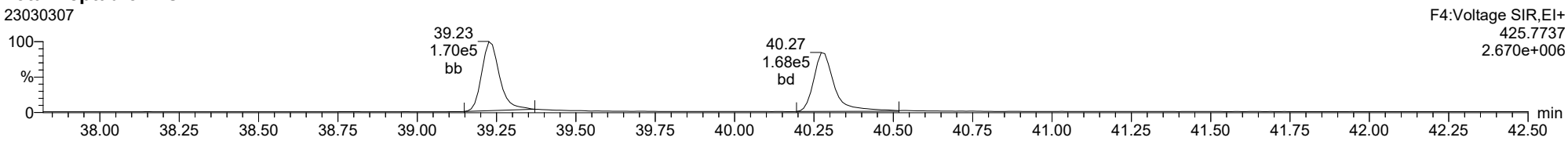


Total-heptadioxins



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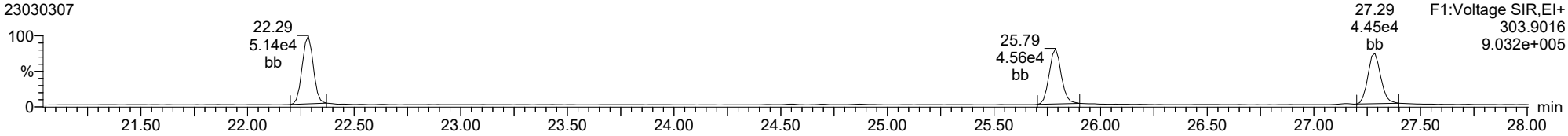
Total-tetrafurans



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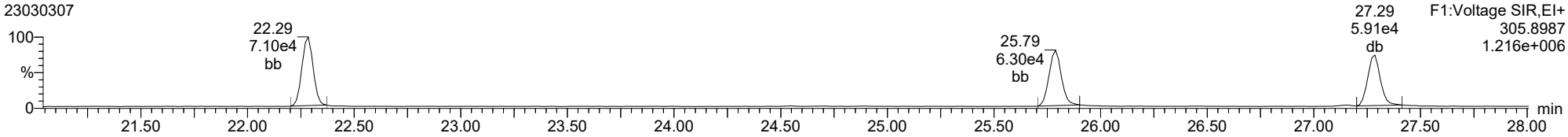

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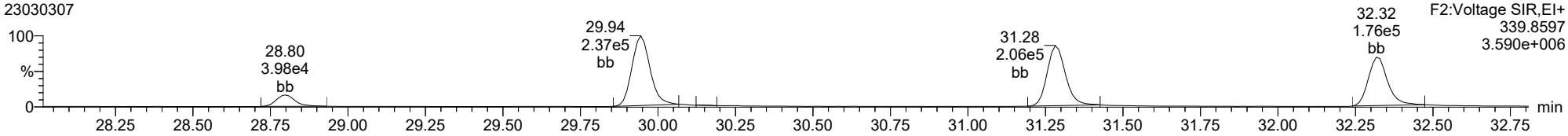

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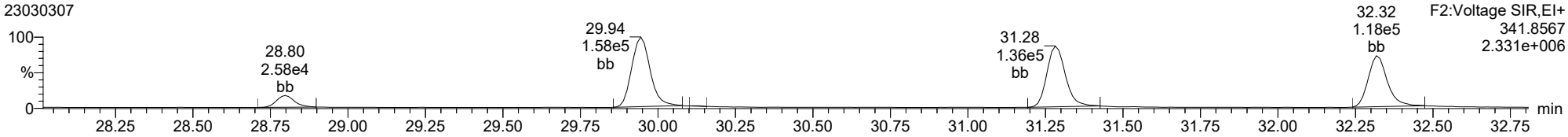

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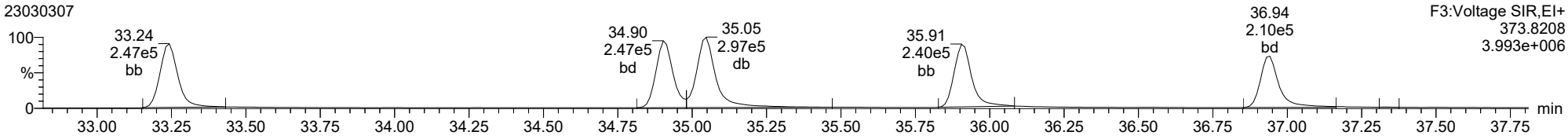
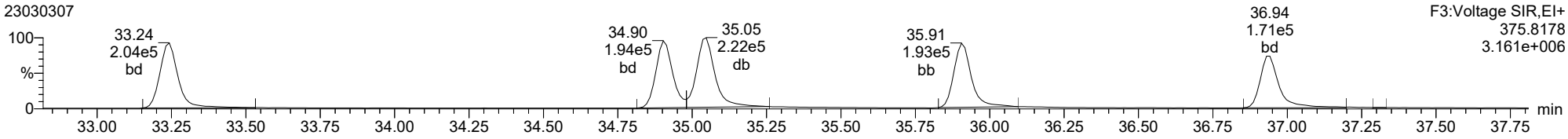
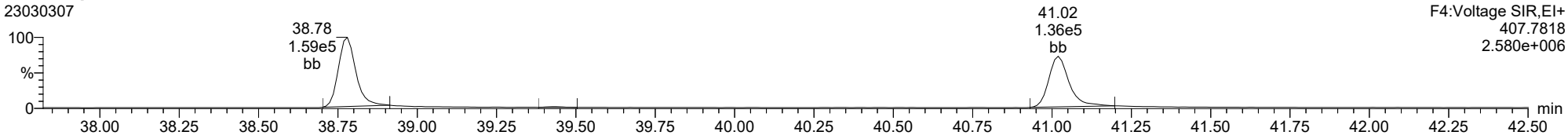
Total-hexafurans



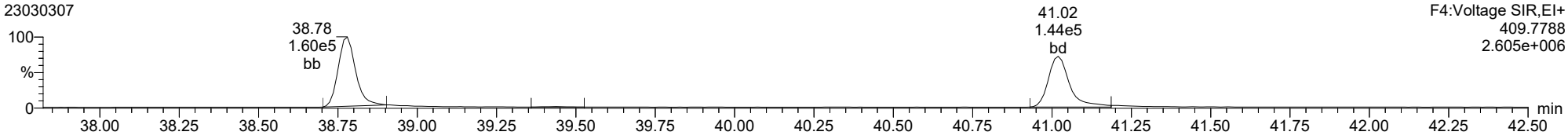
Total-hexafurans



Total-heptafurans



Total-heptafurans



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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	2.145e5	2.910e5	0.702	0.737	0.770	1085	2356	3.19e6	4.36e6	2939.3	1849.8	NO	bb	bb	41.038
12378-PeCDF	29.944	1.000	1.256e6	8.416e5	0.679	1.492	1.550	4273	3650	1.86e7	1.25e7	4360.5	3425.9	NO	bb	bb	202.935
23478-PeCDF	31.292	1.001	1.346e6	8.943e5	0.786	1.505	1.550	4273	3650	2.02e7	1.34e7	4738.5	3680.0	NO	bb	bb	201.175
123478-HxCDF	34.913	1.001	1.546e6	1.218e6	1.166	1.269	1.240	1919	2508	2.36e7	1.86e7	12323.4	7421.9	NO	bd	bd	197.711
234678-HxCDF	35.916	1.001	1.547e6	1.307e6	1.140	1.184	1.240	1919	2508	2.33e7	1.85e7	12125.4	7387.3	NO	bb	bd	210.207
123678-HxCDF	35.047	1.000	1.740e6	1.369e6	1.091	1.271	1.240	1919	2508	2.57e7	2.04e7	13394.0	8153.6	NO	db	db	189.797
123789-HxCDF	36.941	1.000	1.209e6	1.036e6	1.137	1.167	1.240	1919	2508	1.81e7	1.44e7	9441.6	5749.5	NO	bb	bd	200.361
1234678-HpCDF	38.779	1.000	8.720e5	8.418e5	1.003	1.036	1.050	3326	3780	1.44e7	1.42e7	4339.3	3745.4	NO	bb	bb	204.650
1234789-HpCDF	41.019	1.000	7.221e5	7.262e5	0.953	0.994	1.050	3326	3780	1.01e7	1.02e7	3041.3	2689.4	NO	bb	bb	208.465
OCDF	45.255	1.006	1.195e6	1.333e6	0.778	0.897	0.890	1809	2070	1.43e7	1.59e7	7923.8	7701.9	NO	bb	bb	419.788
2378-TCDD	26.438	1.001	2.573e5	3.218e5	1.149	0.799	0.770	1559	1107	3.81e6	4.84e6	2446.0	4371.1	NO	bb	bb	39.968
12378-PeCDD	31.549	1.001	1.294e6	8.446e5	1.022	1.532	1.550	1566	1736	1.89e7	1.24e7	12077.0	7164.9	NO	bb	bb	199.637
123478-HxCDD	36.027	1.000	1.162e6	9.482e5	0.996	1.225	1.240	1816	1276	1.93e7	1.57e7	10622.2	12327.7	NO	bd	bd	198.133
123678-HxCDD	36.150	1.001	1.363e6	1.125e6	1.001	1.212	1.240	1816	1276	1.97e7	1.61e7	10823.8	12618.8	NO	db	db	204.224
123789-HxCDD	36.528	1.011	1.168e6	9.477e5	0.907	1.232	1.240	1816	1276	1.77e7	1.44e7	9764.9	11291.0	NO	bb	bb	203.974
1234678-HpCDD	40.283	1.001	8.284e5	8.038e5	1.039	1.031	1.050	3177	2938	1.22e7	1.19e7	3841.2	4046.8	NO	bb	bb	198.376
OCDD	45.008	1.000	1.293e6	1.512e6	0.920	0.855	0.890	1475	2373	1.59e7	1.85e7	10744.0	7810.6	NO	bb	bb	394.016
13C-2378-TCDF	25.774	1.007	7.645e5	9.914e5	1.620	0.771	0.770	1843	2282	1.15e7	1.49e7	6238.3	6526.6	NO	bb	bb	101.535
13C-12378-PeCDF	29.933	1.169	9.119e5	6.098e5	1.240	1.495	1.550	3738	4574	1.28e7	8.50e6	3418.3	1857.5	NO	bd	bd	114.934
13C-23478-PeCDF	31.270	1.221	8.522e5	5.645e5	1.118	1.510	1.550	3738	4574	1.28e7	8.47e6	3423.2	1851.3	NO	bb	bb	118.746
13C-123478-HxCDF	34.891	0.956	4.043e5	7.946e5	1.168	0.509	0.510	3379	2646	6.26e6	1.23e7	1851.5	4643.3	NO	bd	bd	93.689
13C-123678-HxCDF	35.036	0.959	5.122e5	9.895e5	1.386	0.518	0.510	3379	2646	6.72e6	1.32e7	1988.7	4975.1	NO	db	dd	98.879
13C-234678-HxCDF	35.894	0.983	4.066e5	7.845e5	1.129	0.518	0.510	3379	2646	6.03e6	1.18e7	1785.1	4452.3	NO	bb	bb	96.294
13C-123789-HxCDF	36.930	1.011	3.312e5	6.542e5	0.932	0.506	0.510	3379	2646	4.85e6	9.52e6	1434.9	3598.2	NO	bb	bb	96.556
13C-1234678-HpCDF	38.768	1.062	2.524e5	5.825e5	0.895	0.433	0.440	1935	3511	4.16e6	9.49e6	2148.5	2703.4	NO	bb	bb	85.151
13C-1234789-HpCDF	41.007	1.123	2.205e5	5.084e5	0.770	0.434	0.440	1935	3511	3.02e6	6.92e6	1559.8	1971.4	NO	bb	bb	86.451
13C-1234-TCDD	25.605	0.000	4.743e5	5.931e5	1.000	0.800	0.770	2271	1813	7.33e6	9.12e6	3228.4	5028.5	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	5.640e5	6.974e5	1.152	0.809	0.770	2271	1813	8.09e6	1.01e7	3563.4	5571.0	NO	bb	bb	102.553
13C-12378-PeCDD	31.526	1.231	6.480e5	4.003e5	0.829	1.619	1.550	1212	1529	9.47e6	5.85e6	7814.9	3827.1	NO	bb	bb	118.505
13C-123478-HxCDD	36.016	0.986	6.052e5	4.646e5	0.995	1.303	1.240	1807	1475	9.78e6	7.54e6	5412.5	5108.2	NO	bd	bd	98.154
13C-123678-HxCDD	36.127	0.989	6.753e5	5.418e5	1.157	1.246	1.240	1807	1475	1.01e7	8.01e6	5594.1	5426.8	NO	db	db	96.059
13C-1234678-HpCDD	40.261	1.102	3.968e5	3.950e5	0.840	1.005	1.050	2357	2248	5.68e6	5.37e6	2408.3	2387.8	NO	bb	bb	86.051
13C-OCDD	44.999	1.232	7.332e5	8.149e5	0.767	0.900	0.890	1459	1173	8.67e6	9.61e6	5943.8	8191.6	NO	bb	bb	184.151
13C-123789-HxCDD	36.518	0.000	6.173e5	4.781e5	1.000	1.291	1.240	1807	1475	9.34e6	7.24e6	5171.1	4908.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.438	1.033	5.280e5		1.288			2576		7.74e6		3003.1			bb		38.410

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1085	2356								
1289-TCDF					0.678		0.770	1085	2356								
13468-PECDF					1.246		1.550	728	1112								
12389-PECDF					0.496		1.550	4273	3650								
123468-HXCDF					1.169		1.240	1919	2508								
1368-TCDD					1.015		0.770	1559	1107								
1289-TCDD					0.909		0.770	1559	1107								
12479-PECDD					2.301		1.550	1566	1736								
12389-PECDD					1.184		1.550	1566	1736								
124679-HXCDD					1.115		1.240	1816	1276								
1234679-HPCDD					1.137		1.050	3177	2938								
Total-tetrafurans			2.178e5		0.727			1085		3.24e6							41.692
Total-penta1			0.000e0					728		0.00e0							
Total-pentafurans			2.604e6		0.654			4273		3.89e7							404.382
Total-hexafurans			6.043e6		1.141			1919		9.07e7							798.266
Total-heptafurans			1.594e6		0.978			3326		2.45e7							413.115
Total-Furans			1.165e7		0.922			1085		1.72e8							2077.243
Total-tetradioxins			2.634e5		1.024			1559		3.88e6							41.026
Total-pentadioxins			1.295e6		1.502			1566		1.89e7							199.743
Total-hexadioxins			3.693e6		1.005			1816		5.67e7							606.331
Total-heptadioxins			8.286e5		1.088			3177		1.22e7							198.425
Total-Dioxins			7.373e6		1.130			1559		1.08e8							1439.540
Total-TEQ			1.903e7					1559		2.79e8							3516.783
FUNCTION1 PFK			2.654e6					566854		2.19e6							
FUNCTION2 PFK			2.398e5					242860		6.75e6							0.000
FUNCTION3 PFK			5.441e7					394639		2.11e7							0.000
FUNCTION4 PFK			0.000e0					306708		0.00e0							
FUNCTION5 PFK			3.395e4					230570		1.65e6							
FUNCTION1 HXCD...			4.934e2					625		6.74e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.574e3					915		2.35e4							0.000
FUNCTION3 OCDPE			8.696e2					844		1.47e4							0.000
FUNCTION4 NCDPE			3.767e2					925		5.85e3							0.000
FUNCTION5 DCDPE			0.000e0					629		0.00e0							

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
2	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
3	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
2	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
3	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
4	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
5	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
6	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
2	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352
4	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
5	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
6	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175
7	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
8	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
9	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
10	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
11	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
12	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169
13	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
14	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465
15	OCDF	45.26	1.195e6	1.333e6	0.778	0.90	0.89	7923.8	YES	NO	bb	bb	419.788

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
2	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
2	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
2	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
3	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
2	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
2	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059
3	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
4	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106
5	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
6	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
7	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133
8	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
9	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376
10	OCDD	45.01	1.293e6	1.512e6	0.920	0.86	0.89	10744.0	YES	NO	bb	bb	394.016

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352
4	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
5	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
6	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175
7	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
8	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
9	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
10	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
11	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
12	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169
13	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
14	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465
15	OCDF	45.26	1.195e6	1.333e6	0.778	0.90	0.89	7923.8	YES	NO	bb	bb	419.788
16	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
17	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059
18	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
19	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106
20	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
21	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
22	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133
23	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
24	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376
25	OCDD	45.01	1.293e6	1.512e6	0.920	0.86	0.89	10744.0	YES	NO	bb	bb	394.016

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.75	1.219e6					0.4	NO		bb		
2	FUNCTION1 PFK	21.17	1.435e6					3.4	YES		bb		

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.26	4.048e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	28.22	4.511e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	28.09	1.180e4					1.6	NO		bb		0.000
4	FUNCTION2 PFK	32.40	7.400e3					1.4	NO		bd		0.000
5	FUNCTION2 PFK	31.78	3.780e3					0.8	NO		db		0.000
6	FUNCTION2 PFK	31.75	1.880e3					0.6	NO		bd		0.000
7	FUNCTION2 PFK	31.70	9.648e3					1.7	NO		db		0.000
8	FUNCTION2 PFK	31.63	2.054e4					2.2	NO		bd		0.000
9	FUNCTION2 PFK	31.52	5.247e4					2.4	NO		db		0.000
10	FUNCTION2 PFK	31.37	1.454e4					1.4	NO		bd		0.000
11	FUNCTION2 PFK	31.10	7.031e3					1.1	NO		bb		0.000
12	FUNCTION2 PFK	30.32	1.036e4					1.3	NO		bb		0.000
13	FUNCTION2 PFK	30.01	2.058e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	29.82	6.711e3					1.2	NO		db		0.000
15	FUNCTION2 PFK	29.78	1.288e4					1.7	NO		bd		0.000
16	FUNCTION2 PFK	29.02	5.997e3					0.8	NO		bb		0.000
17	FUNCTION2 PFK	28.82	2.827e4					1.7	NO		bb		0.000
18	FUNCTION2 PFK	28.47	4.519e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	28.42	5.823e3					1.1	NO		bb		0.000
20	FUNCTION2 PFK	32.71	1.137e4					1.6	NO		bb		0.000
21	FUNCTION2 PFK	32.44	1.418e4					1.8	NO		db		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.64	7.406e6					25.3	YES		db		0.000
2	FUNCTION3 PFK	36.25	4.701e7					28.1	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.68	7.516e3					1.5	NO		bb		
2	FUNCTION5 PFK	45.50	5.255e3					1.2	NO		bb		
3	FUNCTION5 PFK	43.66	5.108e3					1.2	NO		bb		
4	FUNCTION5 PFK	43.06	3.867e3					1.1	NO		bb		
5	FUNCTION5 PFK	42.63	1.220e4					2.1	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.64	8.072e1					1.8	NO		bb		0.000
2	FUNCTION1 HXCD...	21.44	1.165e2					2.1	NO		db		0.000
3	FUNCTION1 HXCD...	21.34	7.544e1					2.3	NO		bd		0.000
4	FUNCTION1 HXCD...	26.42	1.399e2					2.7	NO		bb		0.000
5	FUNCTION1 HXCD...	21.99	8.086e1					2.0	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.18	1.574e3					25.7	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.15	3.227e2					5.7	YES		db		0.000
2	FUNCTION3 OCDPE	36.03	2.331e2					4.4	YES		bd		0.000
3	FUNCTION3 OCDPE	35.36	1.234e2					4.0	YES		bb		0.000
4	FUNCTION3 OCDPE	35.06	1.904e2					3.3	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.00	2.677e2					3.2	YES		bb		0.000
2	FUNCTION4 NCDPE	38.18	1.090e2					3.1	YES		bb		0.000

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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
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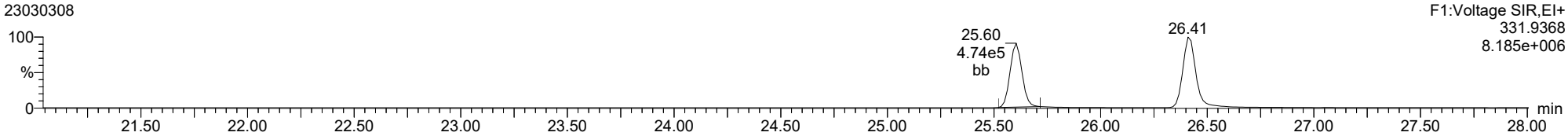
ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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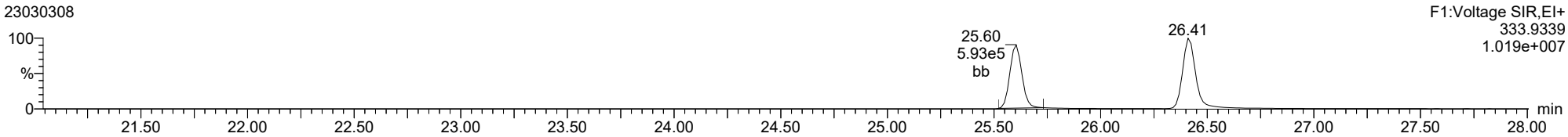

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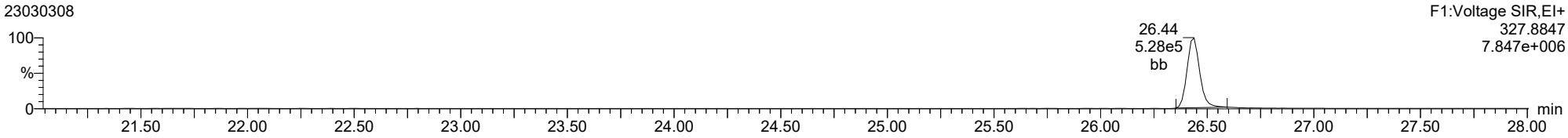

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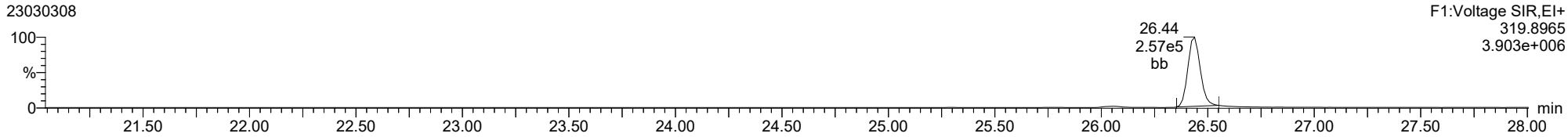

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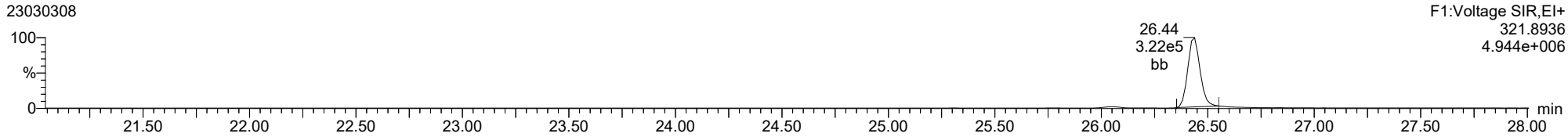

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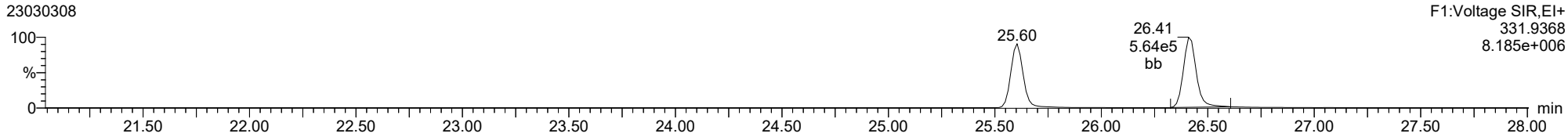

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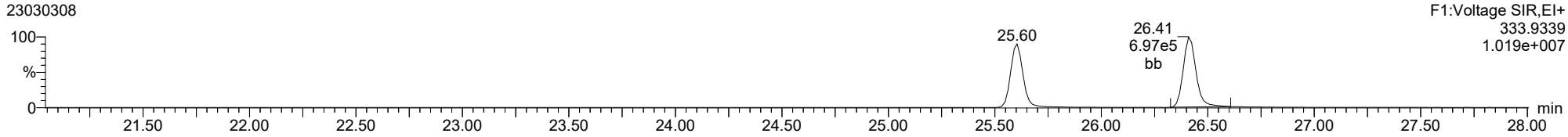

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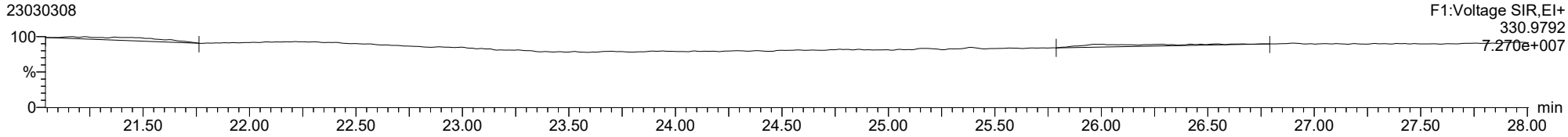

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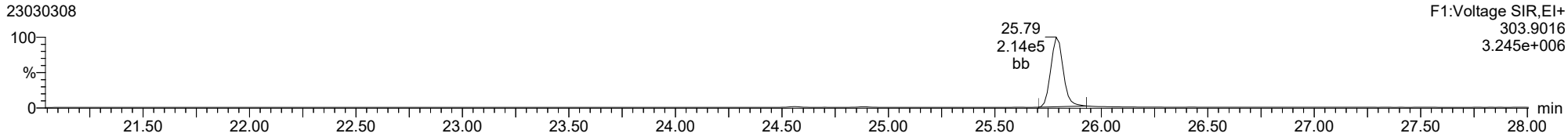

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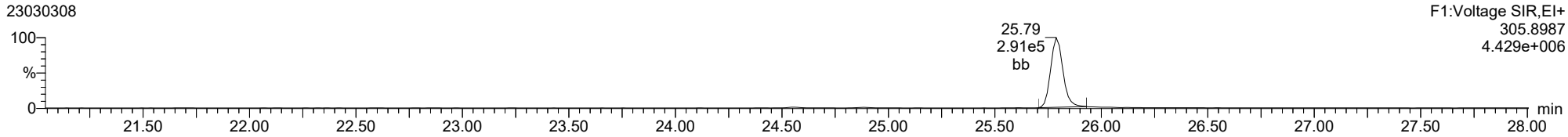

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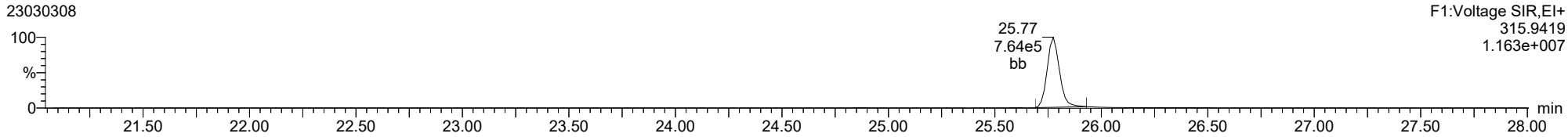

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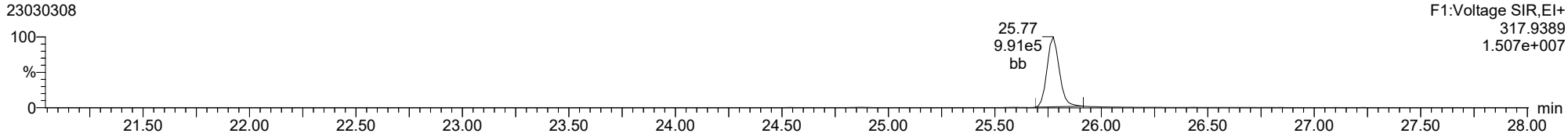

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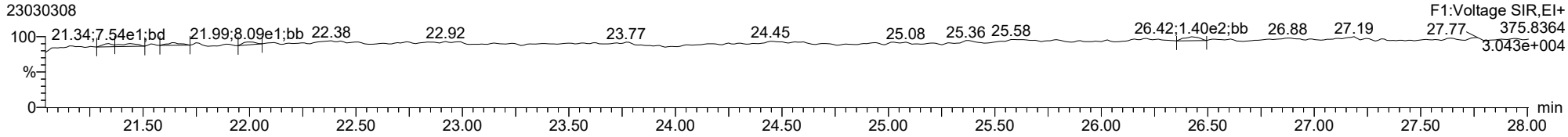

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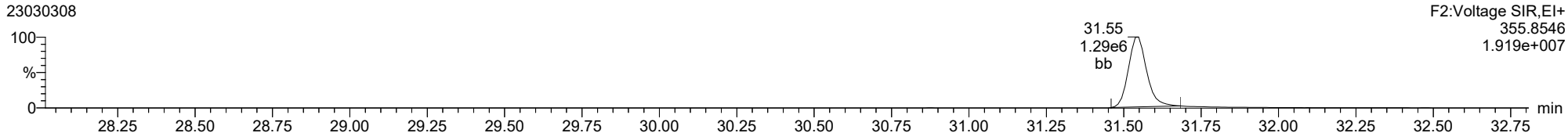

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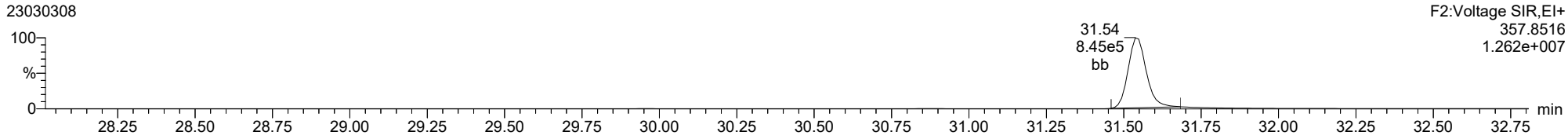

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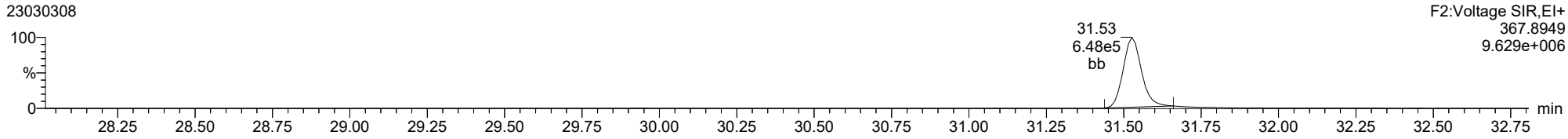

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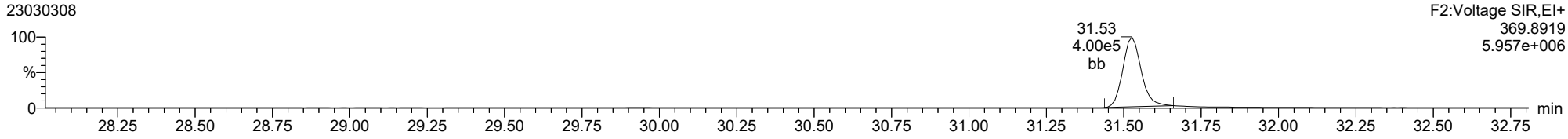
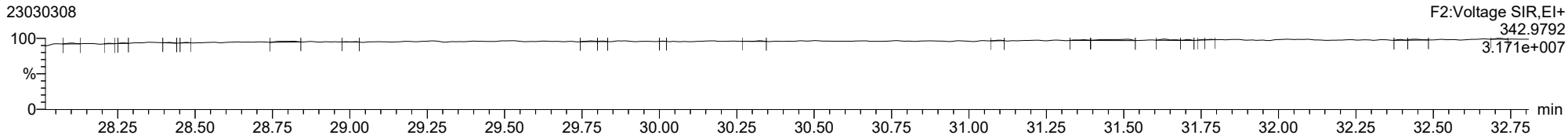


FUNCTION2 PFK



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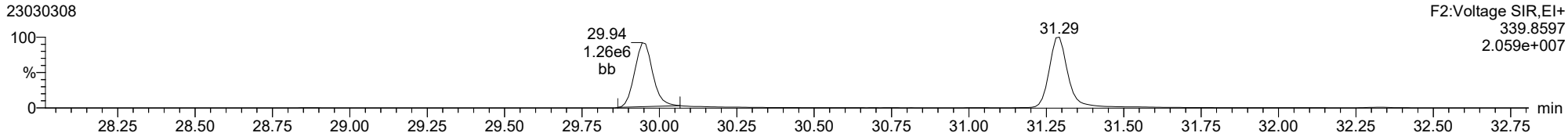

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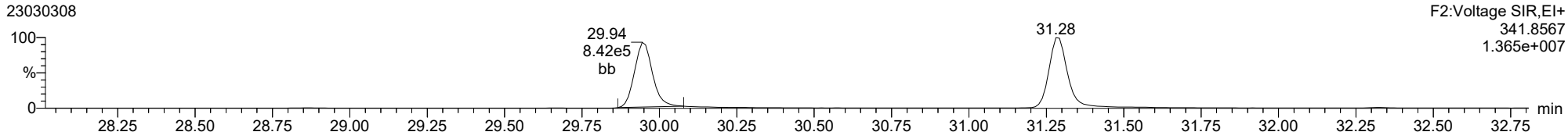

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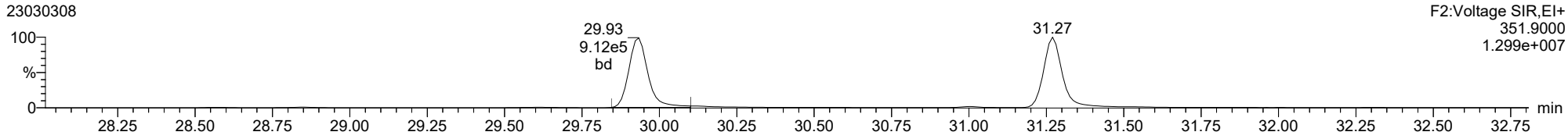

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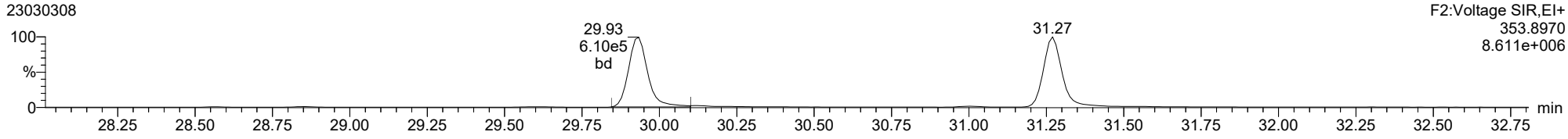

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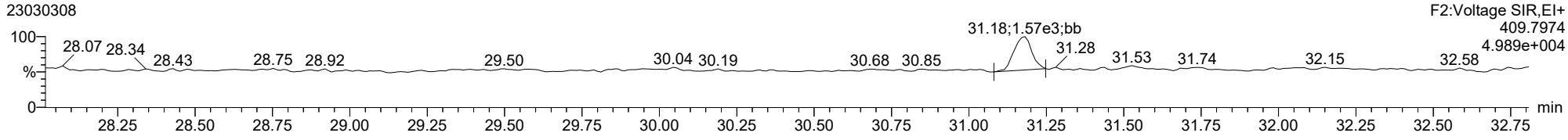

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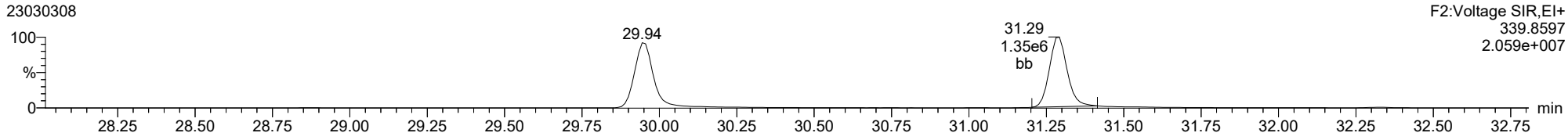
23478-PeCDF



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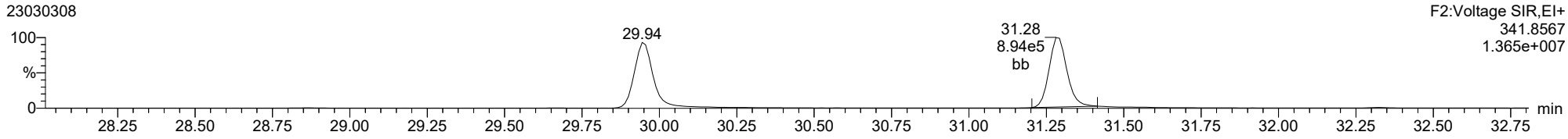

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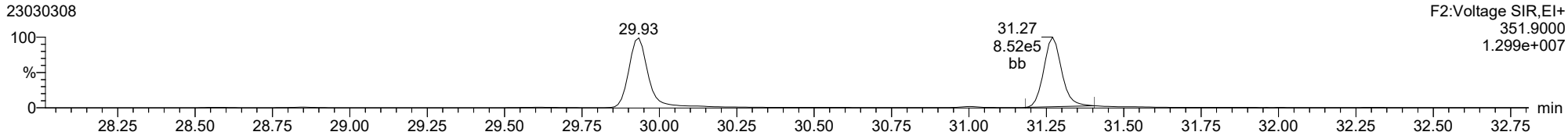

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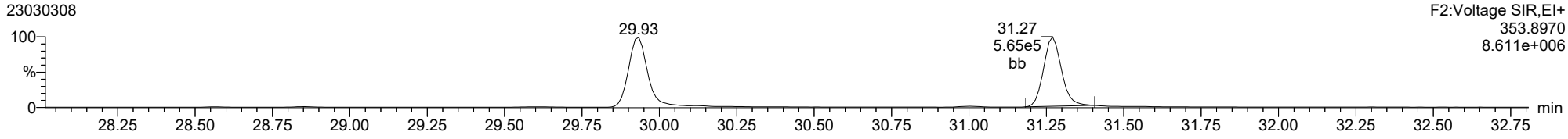

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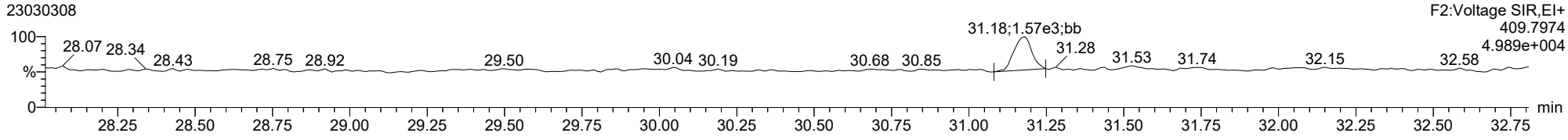

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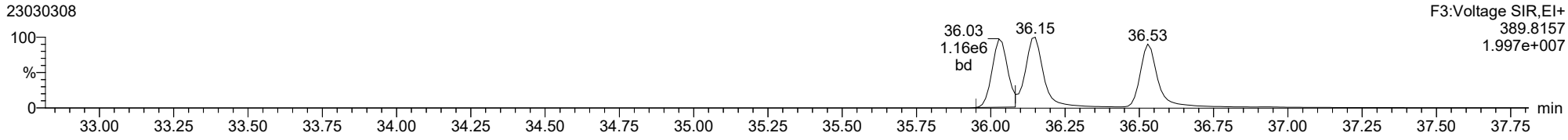
123478-HxCDD



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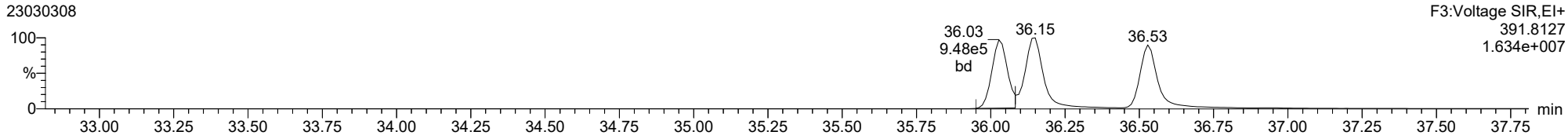

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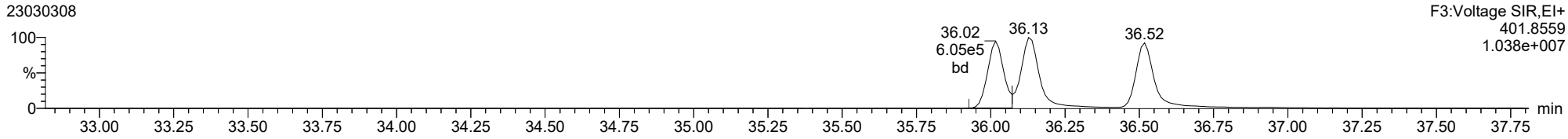

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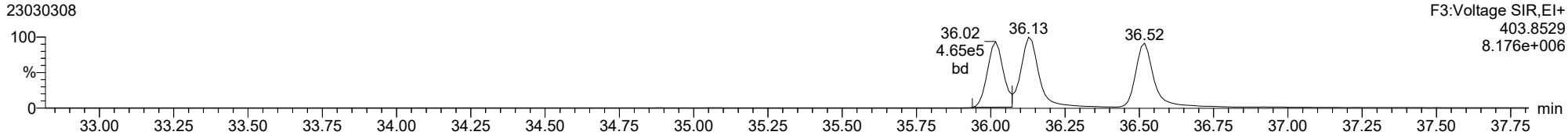

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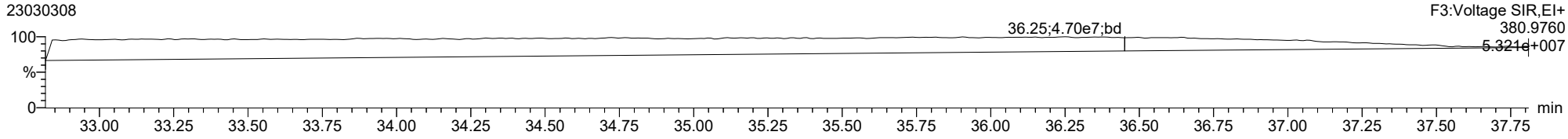

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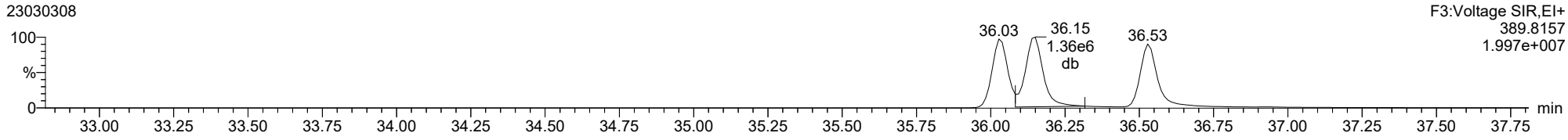

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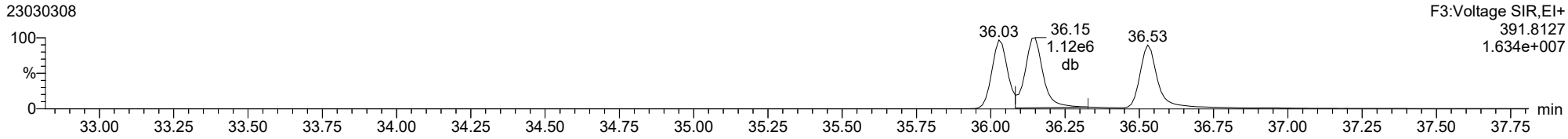

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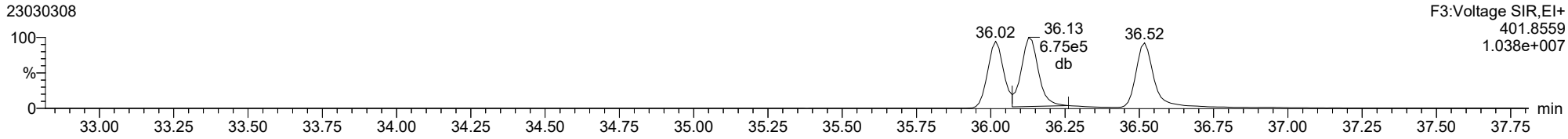

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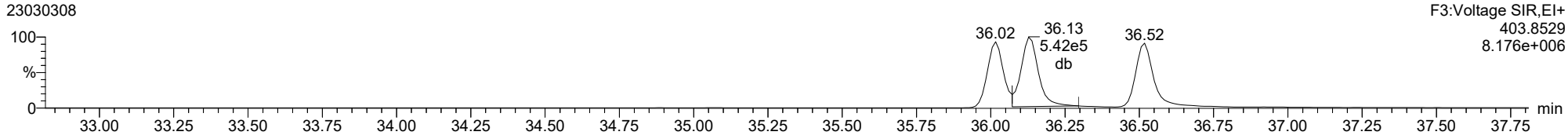

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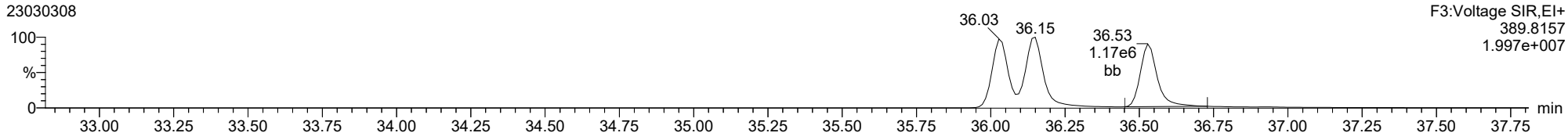

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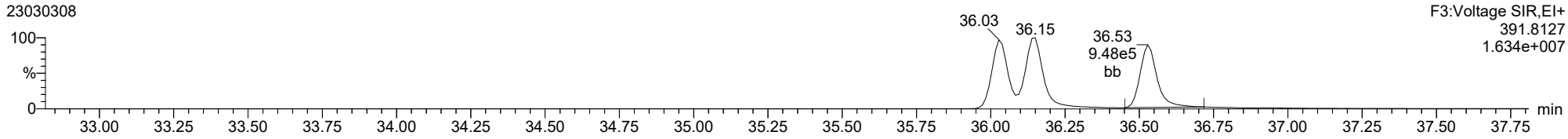

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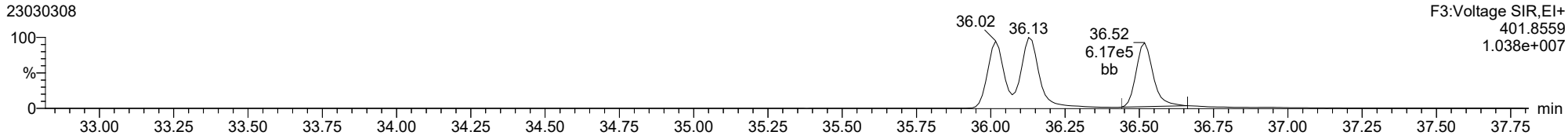

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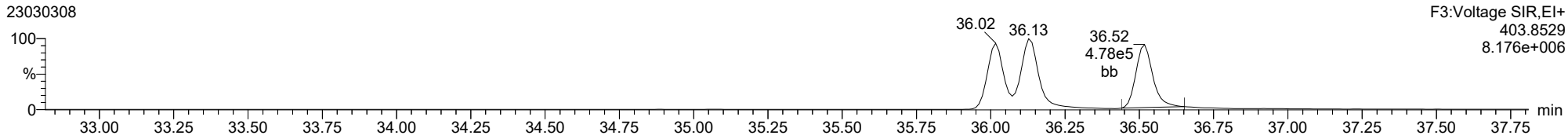

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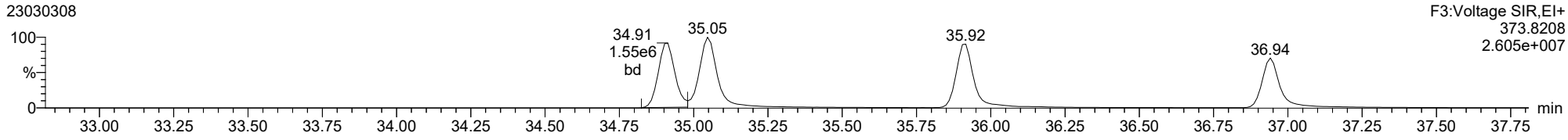

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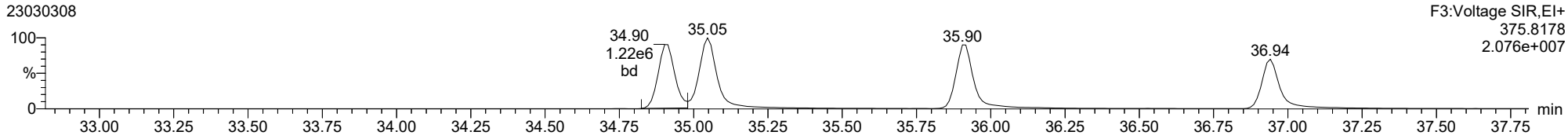

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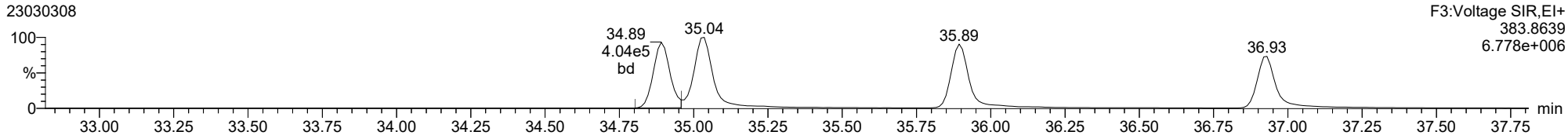

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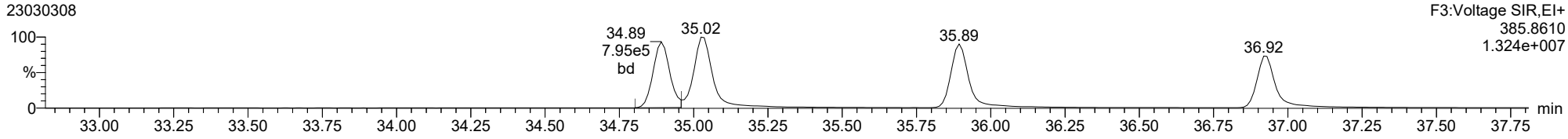

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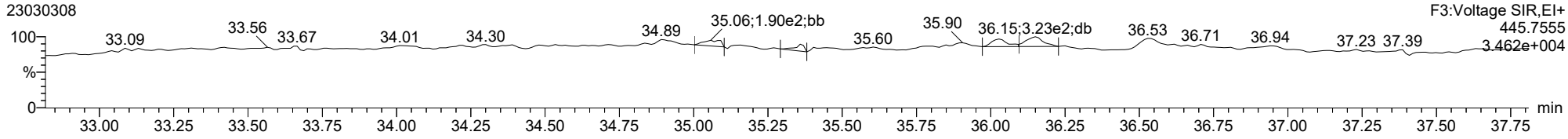

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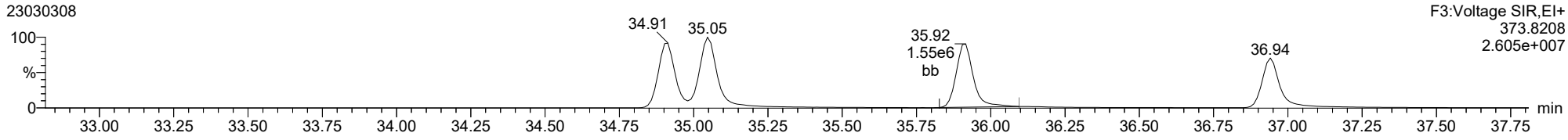

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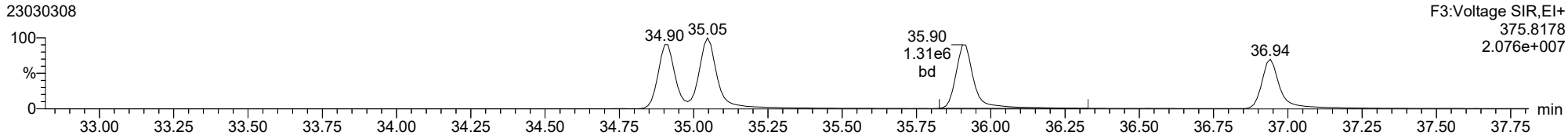

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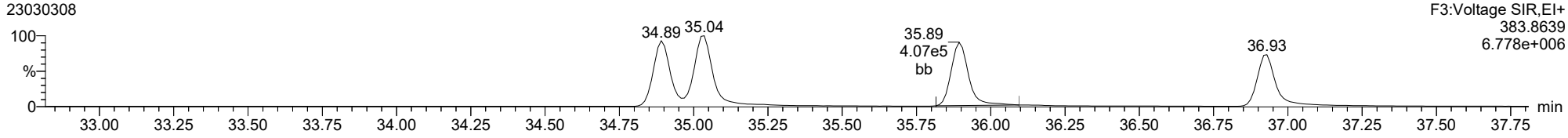

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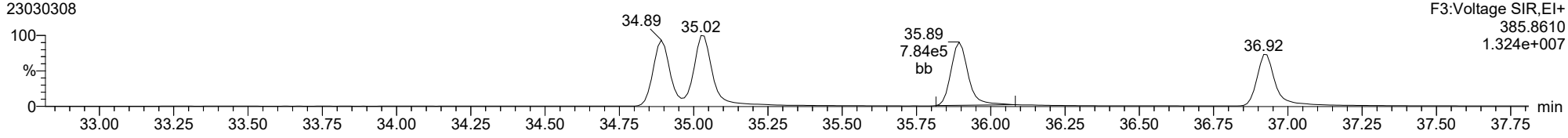

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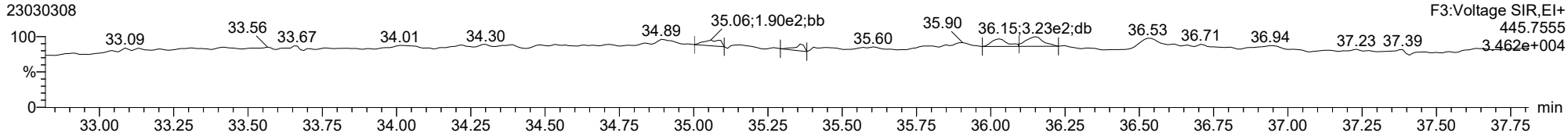

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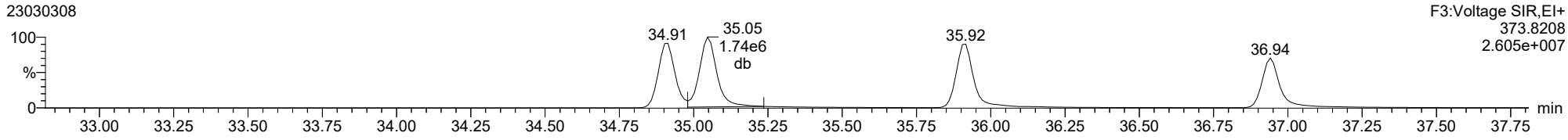

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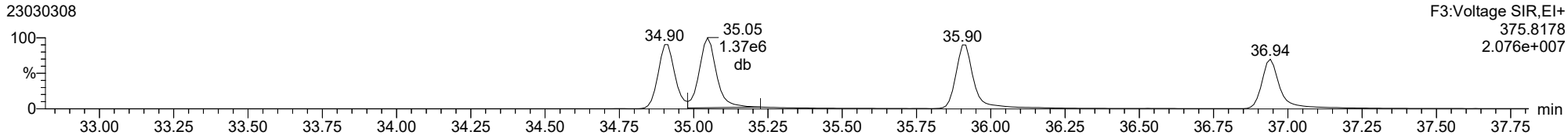

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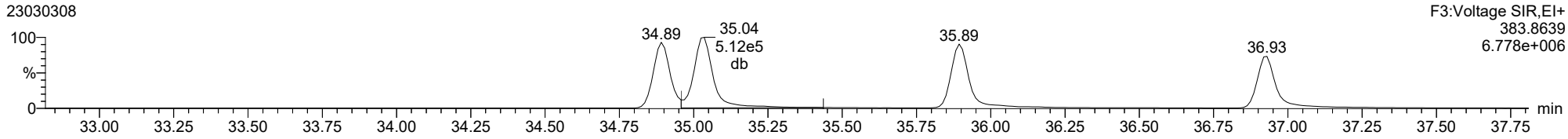

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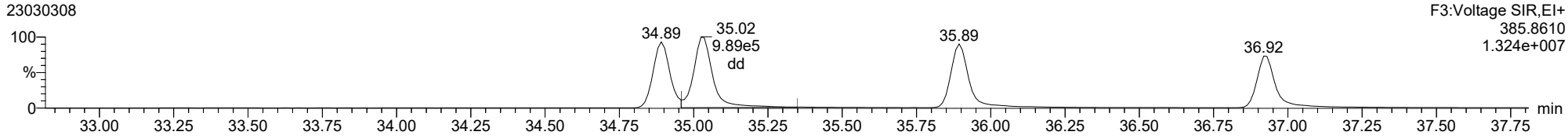

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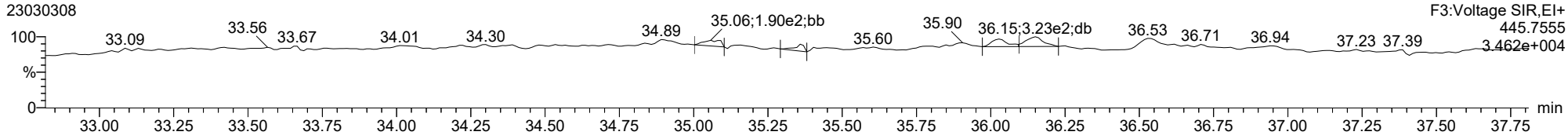

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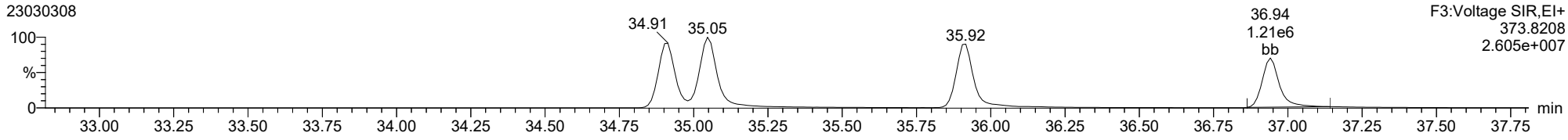

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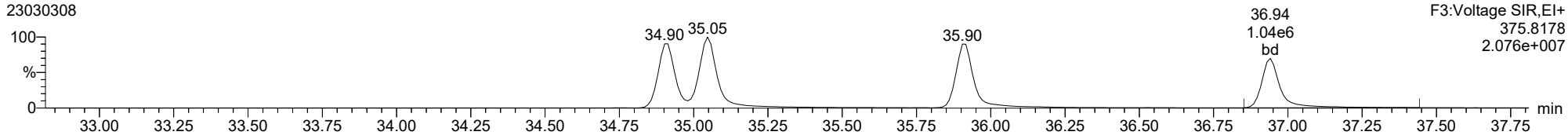

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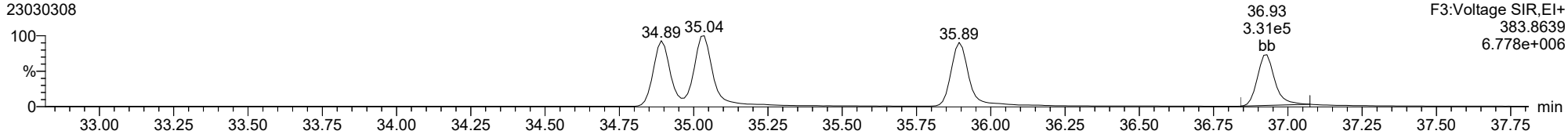

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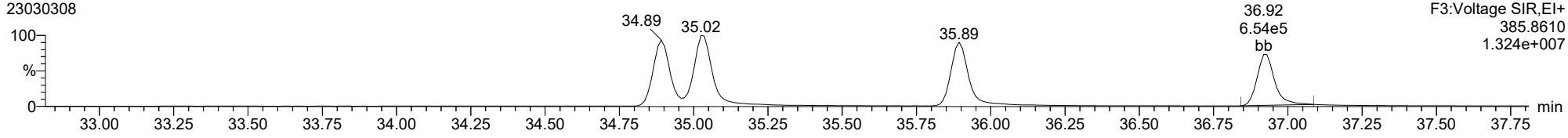

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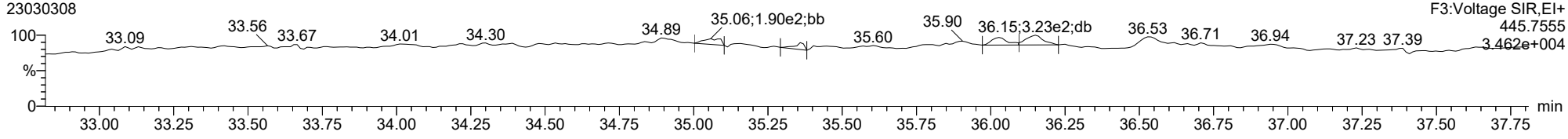

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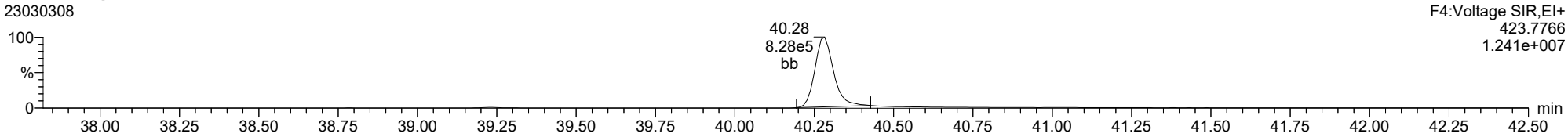

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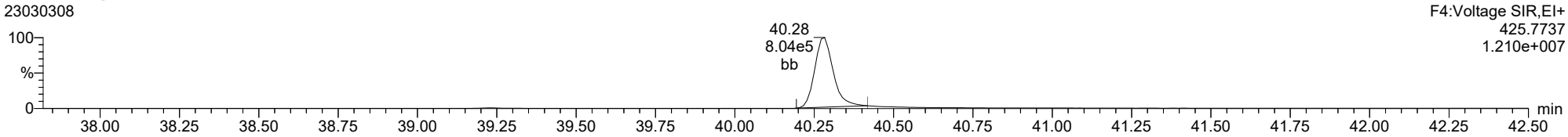

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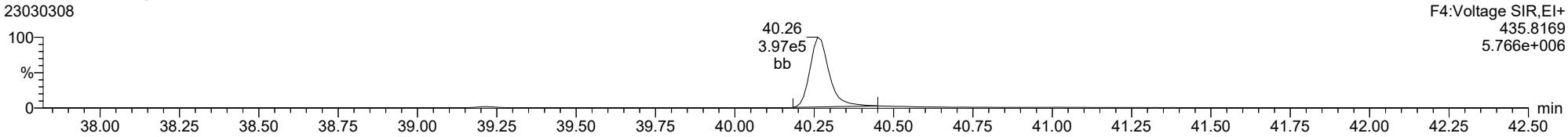

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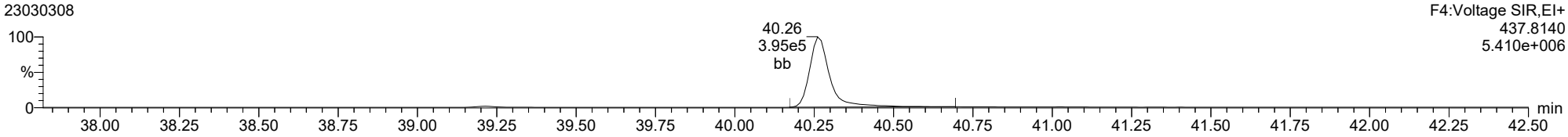

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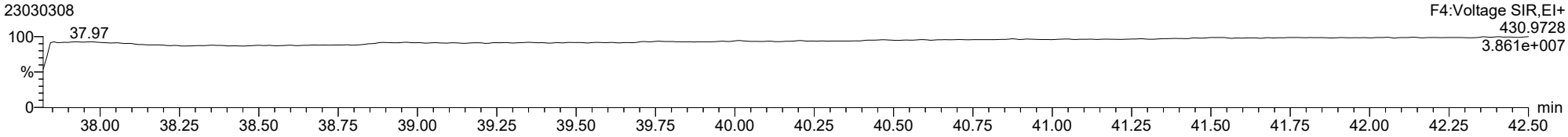

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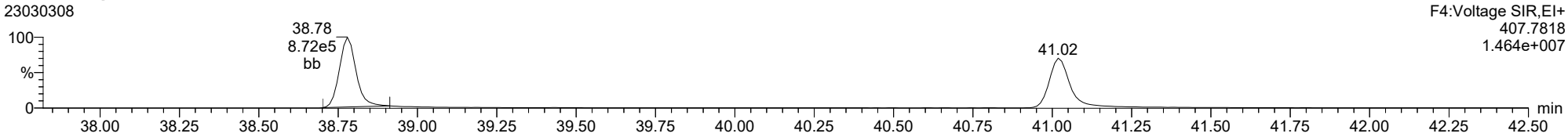

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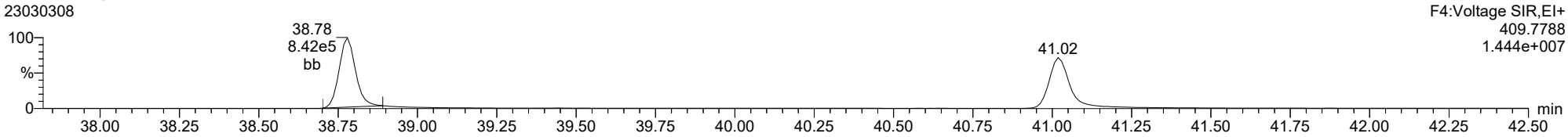

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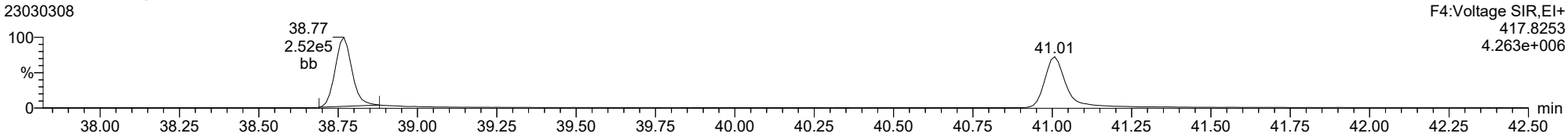

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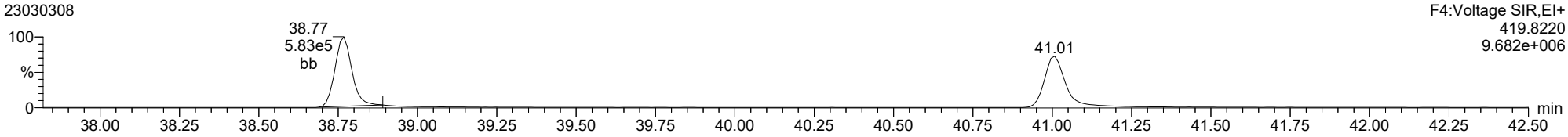

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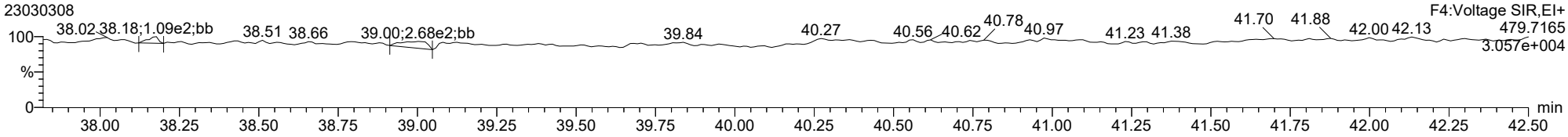

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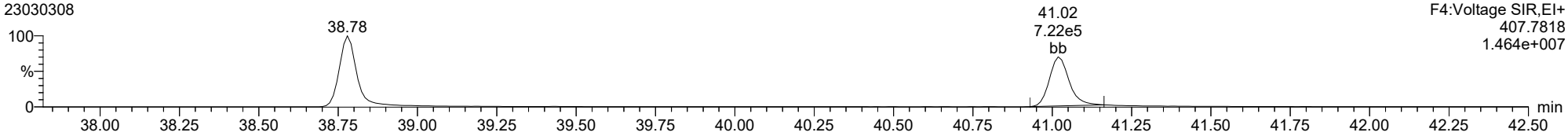

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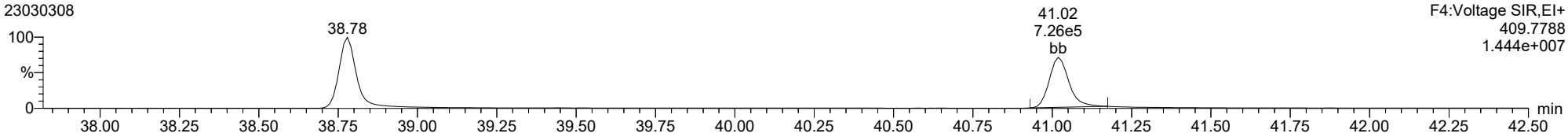

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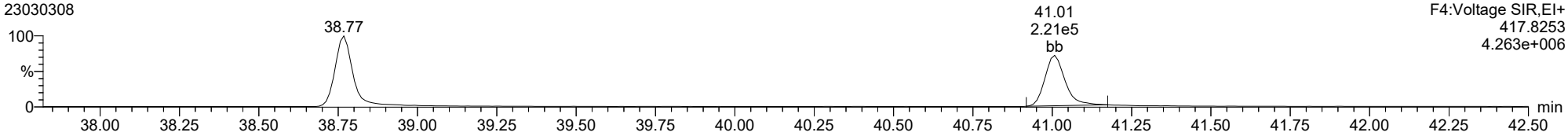

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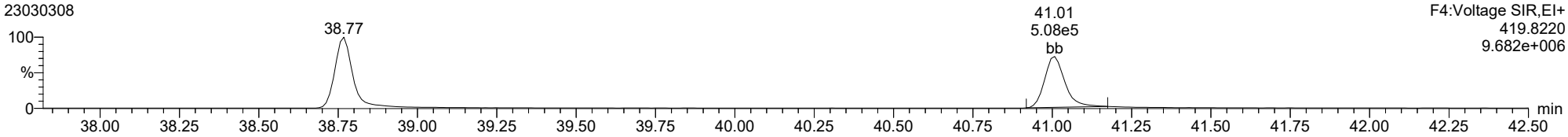

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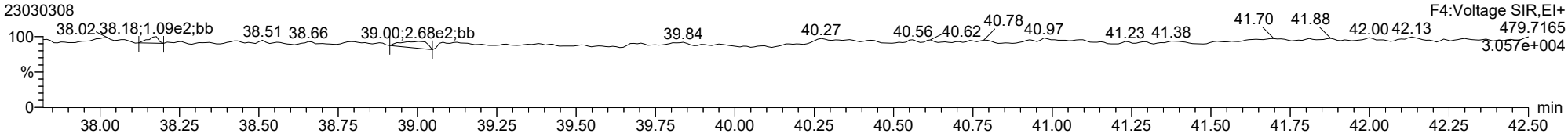

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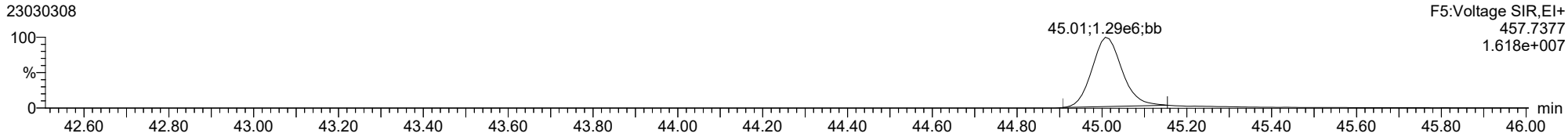

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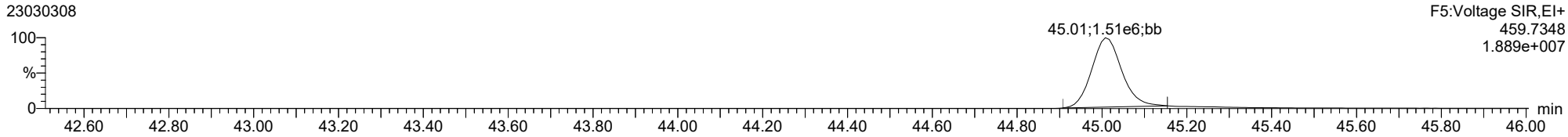
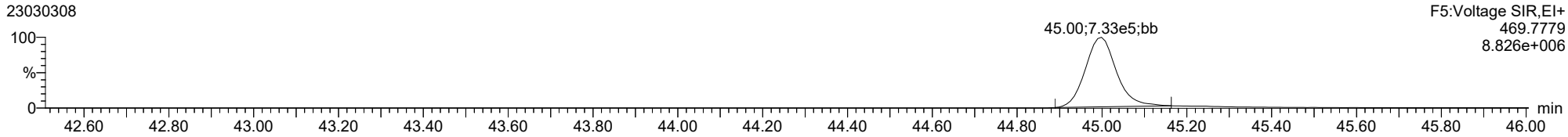
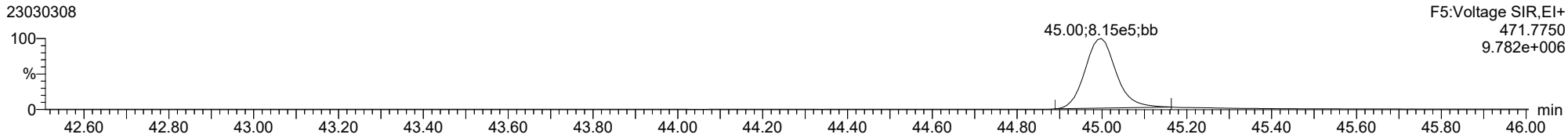


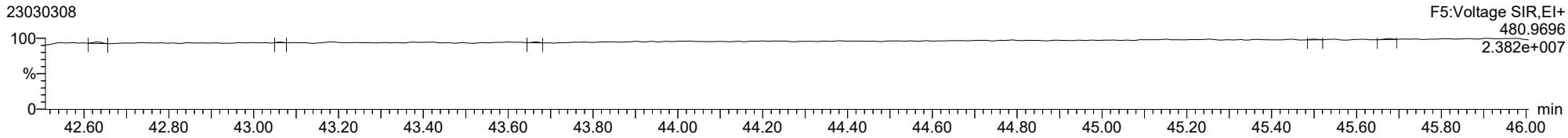
13C-OCDD



13C-OCDD



FUNCTION5 PFK



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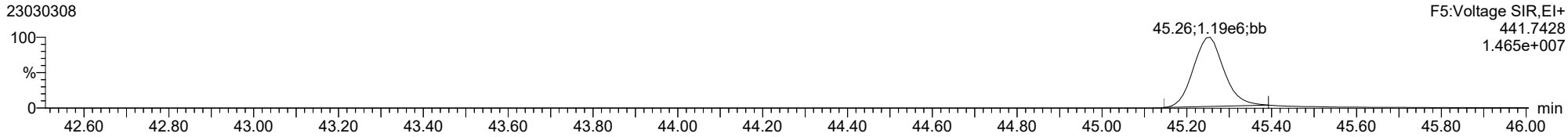
Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

OCDF



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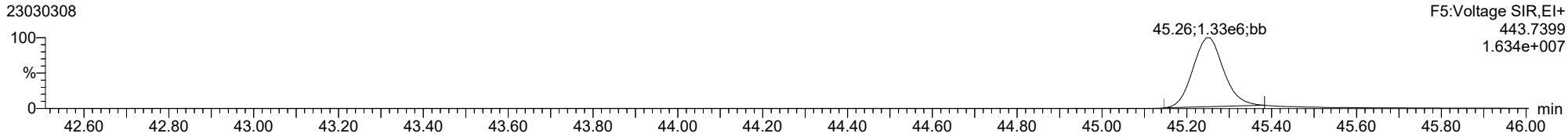
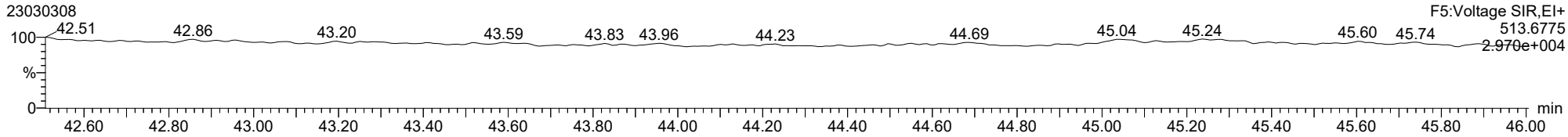
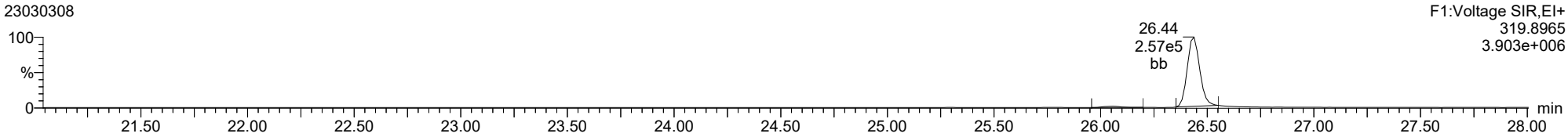


FUNCTION5 DCDPE

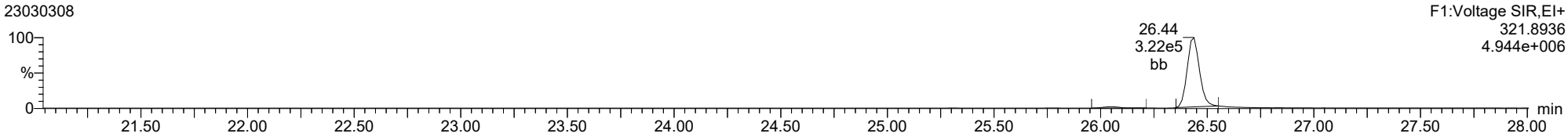


ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

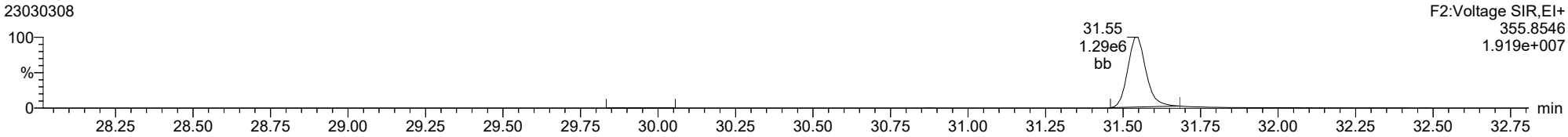
Total-tetradioxins



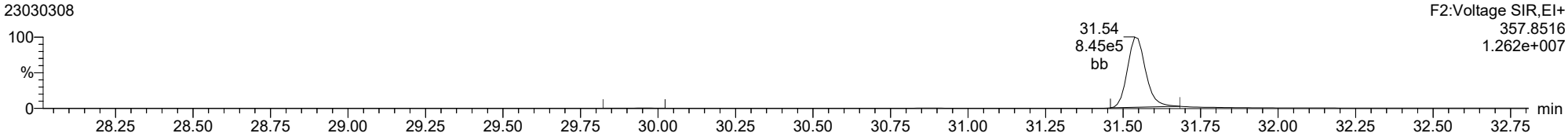
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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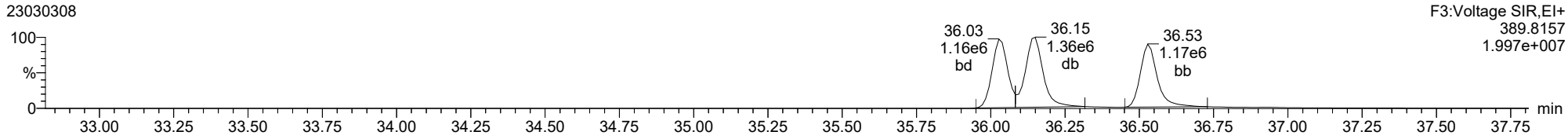
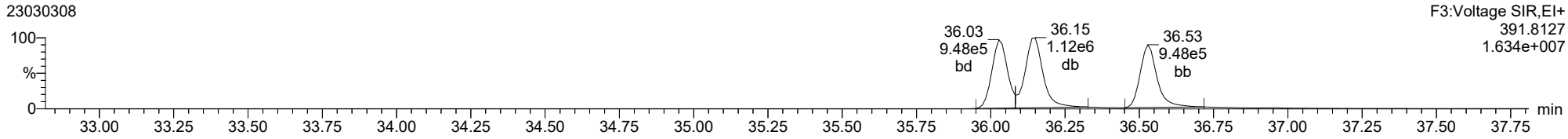
Total-hexadioxins



Total-hexadioxins



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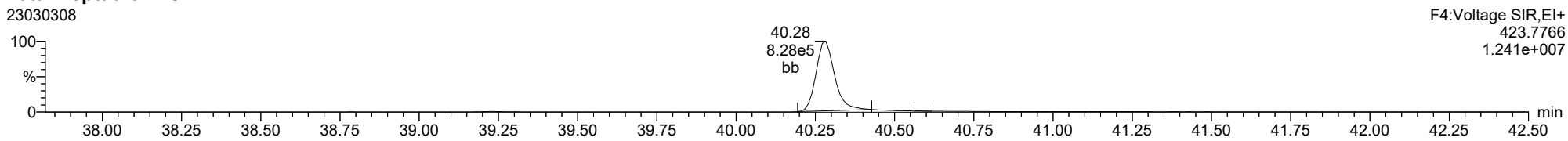
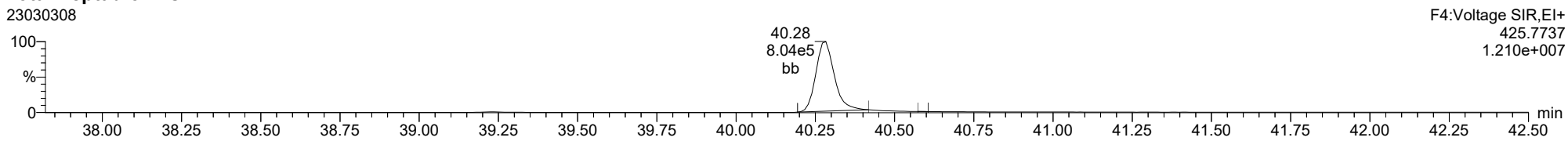


Total-heptadioxins



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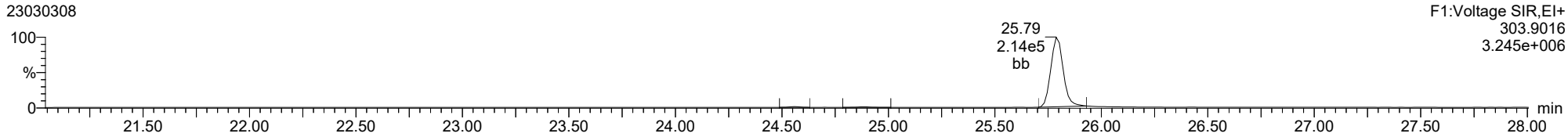
Total-tetrafurans



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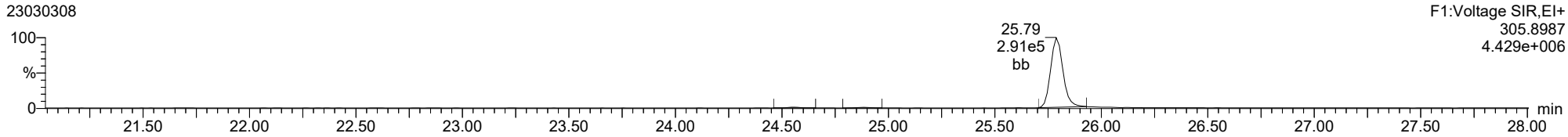
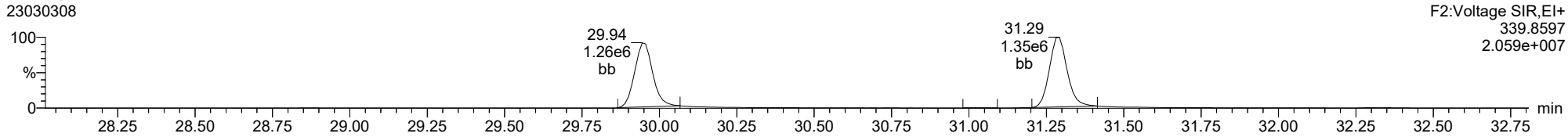
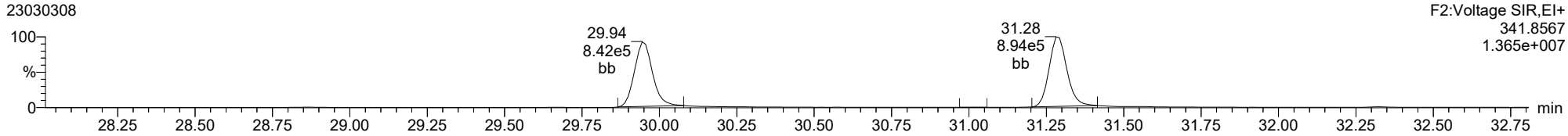


Total-pentafurans



Total-pentafurans



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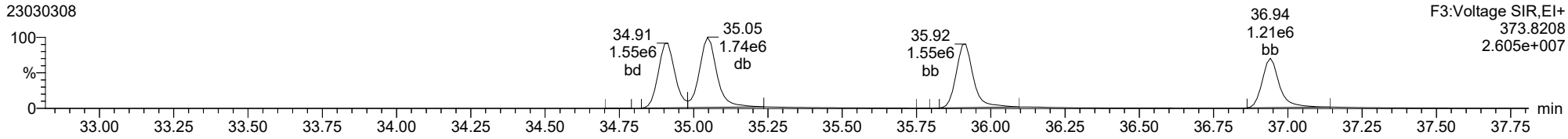
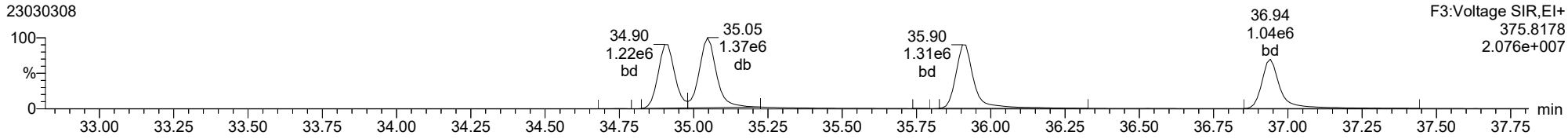
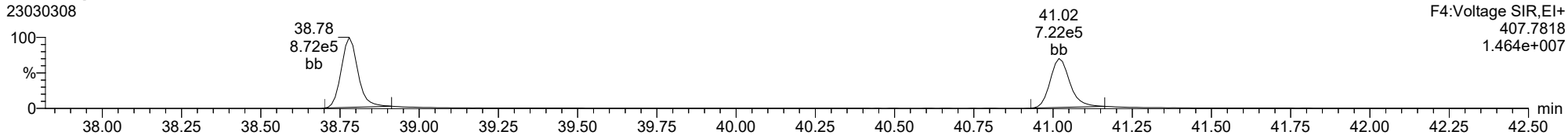
Total-hexafurans



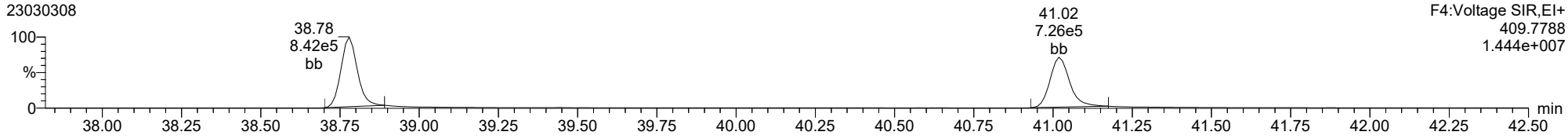
Total-hexafurans



Total-heptafurans



Total-heptafurans



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Printed: Monday, March 06, 2023 11:35:04 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	1.334e6	1.787e6	0.702	0.746	0.770	1816	2705	2.07e7	2.78e7	11389.3	10270.6	NO	bb	bb	200.466
12378-PeCDF	29.934	1.000	7.598e6	4.979e6	0.679	1.526	1.550	4787	5694	1.20e8	7.84e7	24983.0	13764.4	NO	bb	bb	1049.785
23478-PeCDF	31.271	1.000	8.034e6	5.310e6	0.786	1.513	1.550	4787	5694	1.23e8	8.18e7	25734.3	14361.4	NO	bb	bb	1006.165
123478-HxCDF	34.903	1.001	7.954e6	6.371e6	1.166	1.248	1.240	1657	3079	1.28e8	1.02e8	76946.6	33145.2	NO	bd	bd	988.542
234678-HxCDF	35.894	1.000	8.440e6	6.648e6	1.140	1.270	1.240	1657	3079	1.32e8	1.04e8	79492.3	33730.7	NO	bd	bd	997.904
123678-HxCDF	35.036	1.000	8.729e6	6.976e6	1.091	1.251	1.240	1657	3079	1.37e8	1.09e8	82564.4	35544.8	NO	db	db	1005.907
123789-HxCDF	36.930	1.000	7.107e6	5.643e6	1.137	1.259	1.240	1657	3079	1.15e8	9.05e7	69330.3	29396.1	NO	bb	bb	962.631
1234678-HpCDF	38.769	1.000	5.729e6	5.700e6	1.003	1.005	1.050	5984	6276	9.87e7	9.77e7	16498.3	15567.0	NO	bb	bb	1001.511
1234789-HpCDF	41.008	1.000	4.891e6	4.848e6	0.953	1.009	1.050	5984	6276	7.31e7	7.29e7	12213.8	11617.0	NO	bb	bb	1050.453
OCDF	45.246	1.006	8.007e6	9.001e6	0.778	0.890	0.890	617	1698	1.01e8	1.14e8	163878.0	67066.1	NO	bb	bb	2152.541
2378-TCDD	26.424	1.001	1.623e6	2.053e6	1.149	0.791	0.770	1583	1421	2.49e7	3.15e7	15719.4	22173.2	NO	bb	bb	201.416
12378-PeCDD	31.527	1.000	7.500e6	4.933e6	1.022	1.520	1.550	3207	3258	1.15e8	7.59e7	35906.6	23308.0	NO	bb	bb	987.154
123478-HxCDD	36.017	1.000	6.446e6	5.113e6	0.996	1.261	1.240	1269	1319	1.05e8	8.63e7	82869.7	65420.3	NO	bd	bd	1008.795
123678-HxCDD	36.139	1.001	6.944e6	5.798e6	1.001	1.198	1.240	1269	1319	1.11e8	8.98e7	87214.8	68064.1	NO	db	db	1011.135
123789-HxCDD	36.518	1.011	6.387e6	5.242e6	0.907	1.218	1.240	1269	1319	1.04e8	8.52e7	81996.1	64539.0	NO	bb	bb	1063.935
1234678-HpCDD	40.273	1.000	5.468e6	5.342e6	1.039	1.023	1.050	4639	3285	8.81e7	8.56e7	19002.3	26055.7	NO	bb	bb	1010.673
OCDD	45.008	1.000	8.523e6	9.997e6	0.920	0.853	0.890	1224	2738	1.09e8	1.28e8	89206.2	46574.8	NO	bb	bb	1981.710
13C-2378-TCDF	25.760	1.007	9.657e5	1.254e6	1.620	0.770	0.770	2759	1757	1.47e7	1.88e7	5325.4	10693.5	NO	bb	bb	104.465
13C-12378-PeCDF	29.923	1.169	1.058e6	7.059e5	1.240	1.499	1.550	2137	2181	1.59e7	1.06e7	7426.1	4845.6	NO	bb	bb	108.437
13C-23478-PeCDF	31.259	1.222	1.010e6	6.768e5	1.118	1.492	1.550	2137	2181	1.54e7	1.03e7	7192.1	4709.7	NO	bb	bb	115.091
13C-123478-HxCDF	34.880	0.955	4.197e5	8.230e5	1.168	0.510	0.510	2074	3087	6.86e6	1.33e7	3308.7	4323.9	NO	bd	bd	88.344
13C-123678-HxCDF	35.025	0.959	4.843e5	9.471e5	1.386	0.511	0.510	2074	3087	7.37e6	1.42e7	3551.0	4614.4	NO	db	db	85.742
13C-234678-HxCDF	35.883	0.983	4.483e5	8.783e5	1.129	0.510	0.510	2074	3087	6.95e6	1.37e7	3352.7	4438.0	NO	bd	bd	97.566
13C-123789-HxCDF	36.919	1.011	3.958e5	7.690e5	0.932	0.515	0.510	2074	3087	6.35e6	1.23e7	3061.9	3979.7	NO	bb	bb	103.822
13C-1234678-HpCDF	38.757	1.062	3.445e5	7.933e5	0.895	0.434	0.440	2404	3556	5.77e6	1.33e7	2401.1	3732.0	NO	bb	bb	105.552
13C-1234789-HpCDF	40.997	1.123	2.963e5	6.765e5	0.770	0.438	0.440	2404	3556	4.35e6	9.96e6	1811.4	2800.3	NO	bb	bb	104.955
13C-1234-TCDD	25.591	0.000	5.845e5	7.267e5	1.000	0.804	0.770	2994	1335	8.98e6	1.11e7	2999.9	8316.3	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	7.030e5	8.860e5	1.152	0.794	0.770	2994	1335	1.05e7	1.32e7	3492.1	9847.6	NO	bb	bb	105.160
13C-12378-PeCDD	31.515	1.232	7.626e5	4.699e5	0.829	1.623	1.550	1207	1205	1.17e7	7.16e6	9657.3	5939.7	NO	bb	bb	113.413
13C-123478-HxCDD	36.006	0.986	6.492e5	5.017e5	0.995	1.294	1.240	1422	1281	1.08e7	8.26e6	7562.7	6444.6	NO	bd	bd	96.063
13C-123678-HxCDD	36.117	0.989	7.072e5	5.517e5	1.157	1.282	1.240	1422	1281	1.11e7	8.74e6	7828.3	6824.3	NO	db	db	90.391
13C-1234678-HpCDD	40.262	1.103	5.341e5	4.953e5	0.840	1.078	1.050	2026	1583	8.10e6	7.45e6	3998.5	4702.7	NO	bb	bb	101.765
13C-OCDD	44.990	1.232	9.650e5	1.067e6	0.767	0.905	0.890	1467	1005	1.21e7	1.35e7	8264.7	13401.8	NO	bb	bb	219.862
13C-123789-HxCDD	36.507	0.000	6.722e5	5.319e5	1.000	1.264	1.240	1422	1281	1.10e7	8.62e6	7719.2	6727.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	3.368e6		1.288			2667		5.07e7		19022.1			bb		199.444

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
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Printed: Monday, March 06, 2023 11:35:04 Pacific Standard Time

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1816	2705								
1289-TCDF					0.678		0.770	1816	2705								
13468-PECDF					1.246		1.550	665	1133								
12389-PECDF					0.496		1.550	4787	5694								
123468-HXCDF					1.169		1.240	1657	3079								
1368-TCDD					1.015		0.770	1583	1421								
1289-TCDD					0.909		0.770	1583	1421								
12479-PECDD					2.301		1.550	3207	3258								
12389-PECDD					1.184		1.550	3207	3258								
124679-HXCDD					1.115		1.240	1269	1319								
1234679-HPCDD					1.137		1.050	4639	3285								
Total-tetrafurans			1.355e6		0.727			1816		2.10e7							203.619
Total-penta1			0.000e0					665		0.00e0							
Total-pentafurans			1.567e7		0.654			4787		2.43e8							2061.969
Total-hexafurans			3.237e7		1.141			1657		5.13e8							3971.633
Total-heptafurans			1.063e7		0.978			5984		1.72e8							2053.620
Total-Furans			6.803e7		0.922			1816		1.05e9							10443.382
Total-tetradioxins			1.660e6		1.024			1583		2.53e7							206.551
Total-pentadioxins			7.518e6		1.502			3207		1.15e8							988.757
Total-hexadioxins			1.981e7		1.005			1269		3.20e8							3089.249
Total-heptadioxins			5.468e6		1.088			4639		8.81e7							1010.701
Total-Dioxins			4.298e7		1.130			1583		6.58e8							7276.969
Total-TEQ			1.110e8					1583		1.71e9							17720.350
FUNCTION1 PFK			8.364e4					590794		3.29e6							
FUNCTION2 PFK			1.452e7					287139		1.24e7							0.000
FUNCTION3 PFK			2.904e5					447834		7.86e6							0.000
FUNCTION4 PFK			1.983e5					258971		5.49e6							
FUNCTION5 PFK			1.360e5					213310		3.56e6							
FUNCTION1 HXCD...			9.848e2					660		1.37e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.974e3					875		1.52e5							0.000
FUNCTION3 OCDPE			5.118e3					487		5.72e4							0.000
FUNCTION4 NCDPE			1.842e3					616		1.81e4							0.000
FUNCTION5 DCDPE			3.423e3					534		2.47e4							0.000

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
2	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
3	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
4	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
5	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
6	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
2	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
3	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
4	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
5	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
6	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
7	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
8	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
2	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
3	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731
5	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
6	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
7	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
8	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
9	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
10	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415
11	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
12	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
13	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
14	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
15	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
16	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
17	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
18	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904
19	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
20	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
21	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...
22	OCDF	45.25	8.007e6	9.001e6	0.778	0.89	0.89	16387...	YES	NO	bb	bb	2152.5...

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
2	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
3	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
4	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
2	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
3	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
4	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
5	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
2	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
3	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
4	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
2	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
2	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
3	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
4	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199
5	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
6	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
7	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
8	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
9	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776
10	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
11	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
12	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
13	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...
14	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
15	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...
16	OCDD	45.01	8.523e6	9.997e6	0.920	0.85	0.89	89206.2	YES	NO	bb	bb	1981.7...

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731
5	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
6	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
7	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
8	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
9	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
10	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415
11	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
12	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
13	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
14	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
15	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
16	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
17	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
18	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904
19	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
20	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
21	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...
22	OCDF	45.25	8.007e6	9.001e6	0.778	0.89	0.89	16387...	YES	NO	bb	bb	2152.5...
23	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
24	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
25	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
26	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199
27	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
28	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
29	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
30	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
31	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776
32	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
33	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
34	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
35	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...
36	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
37	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	OCDD	45.01	8.523e6	9.997e6	0.920	0.85	0.89	89206.2	YES	NO	bb	bb	1981.7...

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.64	6.068e3					0.7	NO		bb		
2	FUNCTION1 PFK	21.78	2.376e4					1.4	NO		bb		
3	FUNCTION1 PFK	26.65	6.322e3					0.8	NO		bb		
4	FUNCTION1 PFK	26.20	6.018e3					0.7	NO		bb		
5	FUNCTION1 PFK	24.62	4.147e4					1.9	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.96	1.329e6					11.3	YES		db		0.000
2	FUNCTION2 PFK	29.68	9.729e6					13.1	YES		dd		0.000
3	FUNCTION2 PFK	29.12	3.197e6					12.0	YES		dd		0.000
4	FUNCTION2 PFK	28.11	2.639e5					6.8	YES		bd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.58	5.268e3					0.6	NO		bb		0.000
2	FUNCTION3 PFK	35.20	2.459e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	34.94	1.904e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	34.64	1.893e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	34.45	3.091e4					1.7	NO		bb		0.000
6	FUNCTION3 PFK	34.20	2.876e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	34.01	8.291e4					2.8	NO		bb		0.000
8	FUNCTION3 PFK	37.45	2.878e4					1.5	NO		bb		0.000
9	FUNCTION3 PFK	37.14	1.025e4					1.2	NO		bb		0.000
10	FUNCTION3 PFK	36.92	2.201e4					1.4	NO		bb		0.000
11	FUNCTION3 PFK	36.82	6.882e3					0.7	NO		bb		0.000
12	FUNCTION3 PFK	36.27	2.697e4					1.6	NO		bb		0.000
13	FUNCTION3 PFK	35.83	1.096e4					1.2	NO		bb		0.000

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.36	1.487e4					2.2	NO		db		
2	FUNCTION4 PFK	40.28	5.399e4					2.8	NO		bd		
3	FUNCTION4 PFK	39.84	7.632e3					1.3	NO		bb		
4	FUNCTION4 PFK	39.63	5.817e3					1.3	NO		bb		
5	FUNCTION4 PFK	39.58	2.233e4					2.4	NO		bb		
6	FUNCTION4 PFK	39.26	1.840e3					0.6	NO		bb		
7	FUNCTION4 PFK	39.15	1.821e4					2.0	NO		bb		
8	FUNCTION4 PFK	38.75	4.539e3					0.9	NO		bb		
9	FUNCTION4 PFK	38.40	3.735e3					0.9	NO		bb		
10	FUNCTION4 PFK	42.22	2.101e4					1.9	NO		bb		
11	FUNCTION4 PFK	41.91	9.871e3					1.2	NO		bb		
12	FUNCTION4 PFK	41.56	2.609e4					2.3	NO		bb		
13	FUNCTION4 PFK	40.96	8.343e3					1.4	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.55	1.986e4					1.8	NO		bb		
2	FUNCTION5 PFK	44.84	1.038e4					2.0	NO		bb		
3	FUNCTION5 PFK	44.32	5.641e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.16	5.508e3					1.3	NO		bb		
5	FUNCTION5 PFK	43.92	3.533e3					1.2	NO		bb		
6	FUNCTION5 PFK	43.74	1.099e4					1.6	NO		bb		
7	FUNCTION5 PFK	43.65	5.197e4					3.3	YES		db		
8	FUNCTION5 PFK	43.53	1.828e4					2.1	NO		bd		
9	FUNCTION5 PFK	42.94	8.618e3					1.5	NO		bb		
10	FUNCTION5 PFK	42.73	1.271e3					0.6	NO		bb		

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.02	8.181e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	26.42	2.971e2					5.1	YES		bb		0.000
3	FUNCTION1 HXCD...	25.83	8.848e1					2.3	NO		db		0.000
4	FUNCTION1 HXCD...	25.77	1.170e2					2.5	NO		dd		0.000
5	FUNCTION1 HXCD...	25.59	1.285e2					2.6	NO		bd		0.000
6	FUNCTION1 HXCD...	24.84	1.183e2					1.2	NO		bb		0.000
7	FUNCTION1 HXCD...	24.11	7.501e1					1.5	NO		bb		0.000
8	FUNCTION1 HXCD...	22.26	7.865e1					3.6	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.55	8.739e2					12.4	YES		bb		0.000
2	FUNCTION2 HPCD...	31.16	9.100e3					161.2	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.02	1.011e3					23.2	YES		dd		0.000
2	FUNCTION3 OCDPE	35.92	4.171e2					12.8	YES		bd		0.000
3	FUNCTION3 OCDPE	35.05	6.001e2					12.0	YES		db		0.000
4	FUNCTION3 OCDPE	34.90	4.386e2					11.4	YES		bd		0.000
5	FUNCTION3 OCDPE	36.94	5.713e2					12.4	YES		bb		0.000
6	FUNCTION3 OCDPE	36.52	9.647e2					21.7	YES		bb		0.000
7	FUNCTION3 OCDPE	36.14	1.116e3					24.0	YES		db		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.03	4.935e2					7.5	YES		bb		0.000
2	FUNCTION4 NCDPE	40.28	7.486e2					12.2	YES		bb		0.000
3	FUNCTION4 NCDPE	38.78	6.004e2					9.6	YES		bb		0.000

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.26	1.761e3					22.2	YES		db		0.000
2	FUNCTION5 DCDPE	45.02	1.661e3					24.0	YES		bd		0.000

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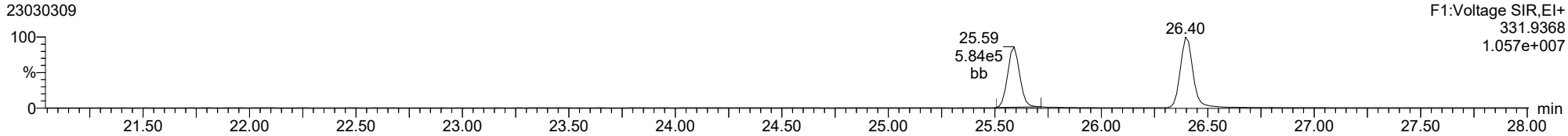

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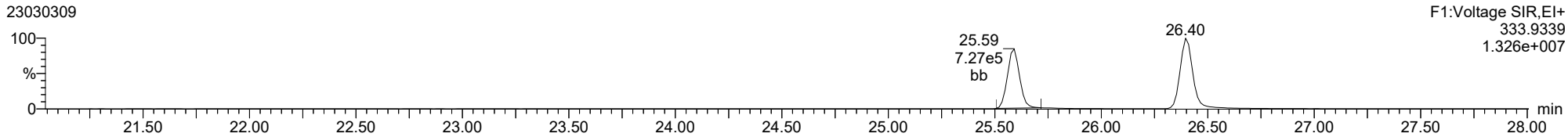

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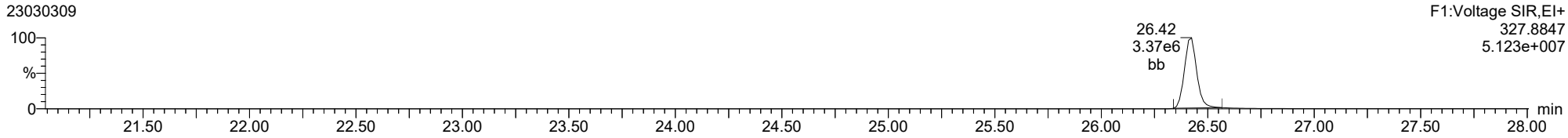

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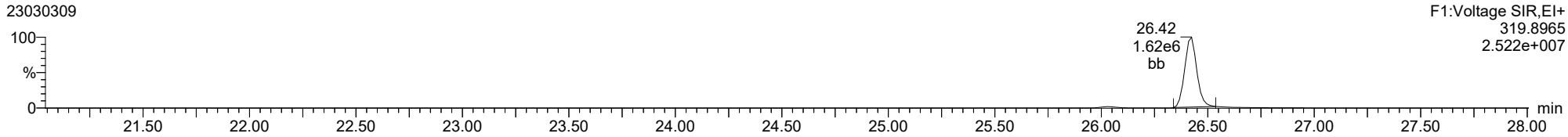

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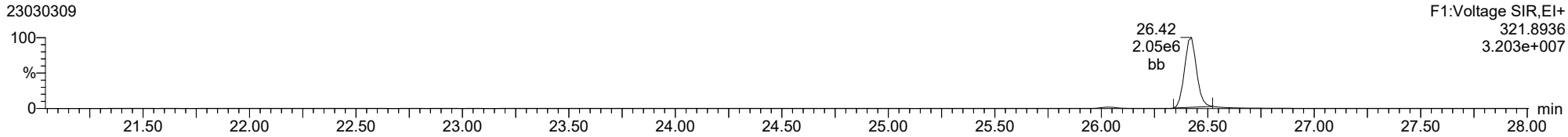

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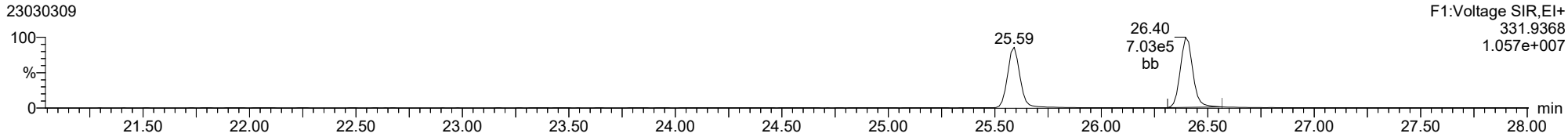

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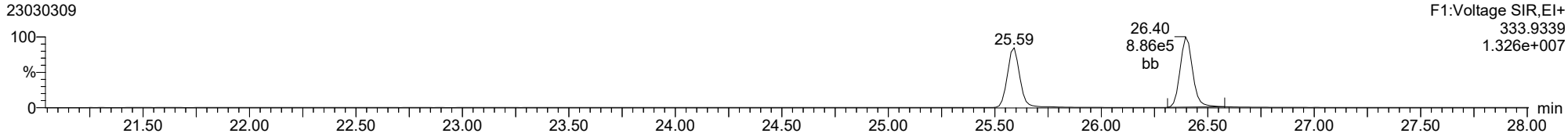

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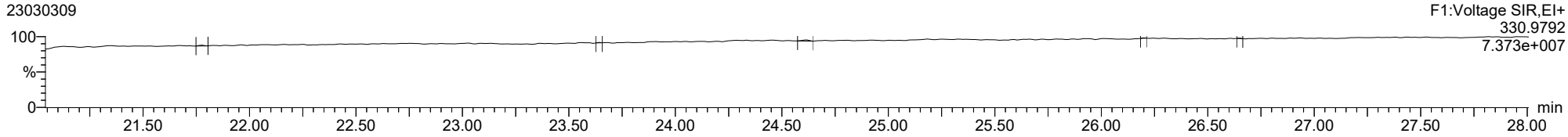

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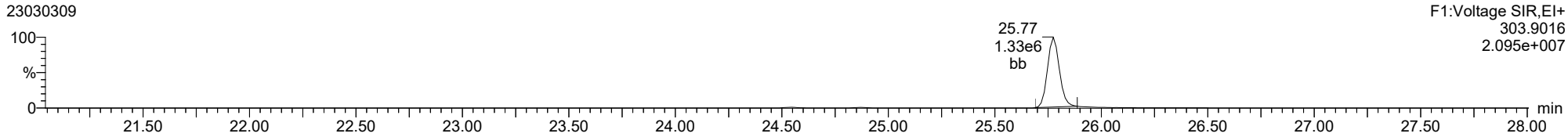

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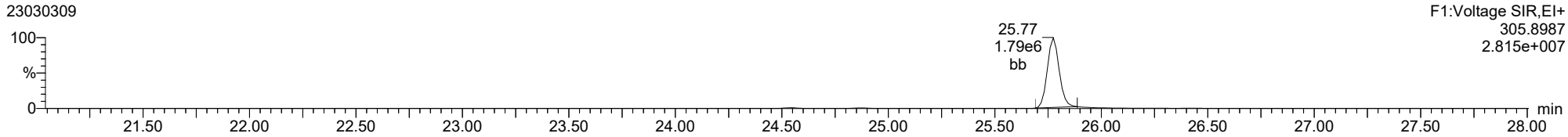

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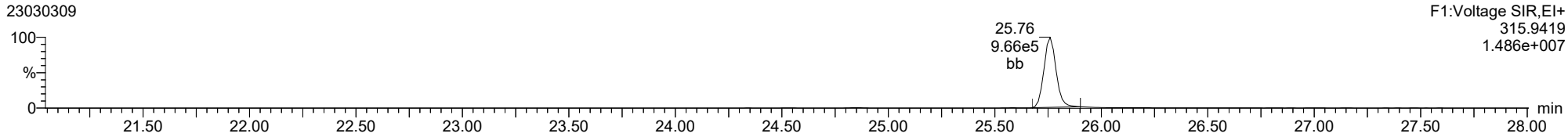

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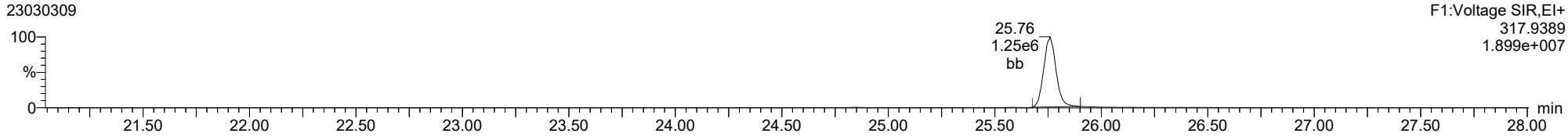

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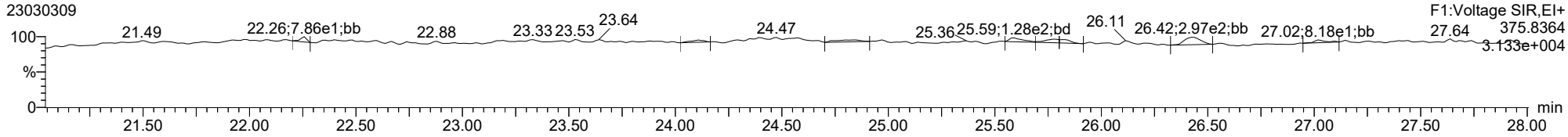

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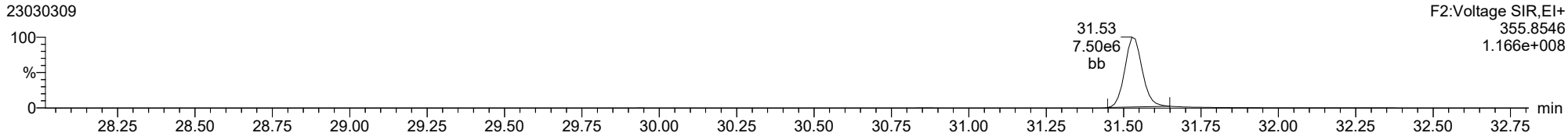
12378-PeCDD



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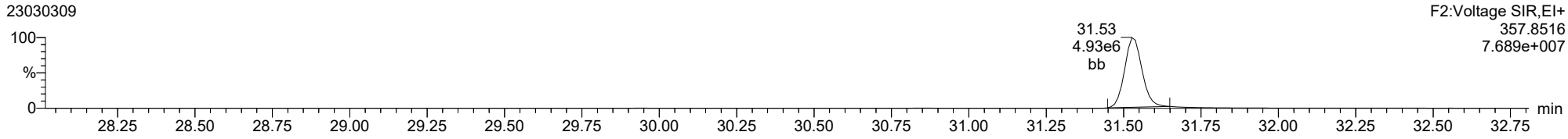

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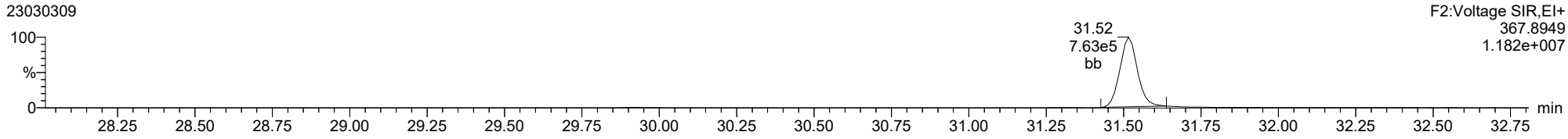

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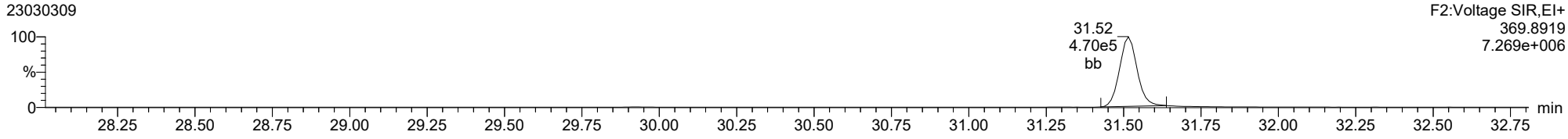

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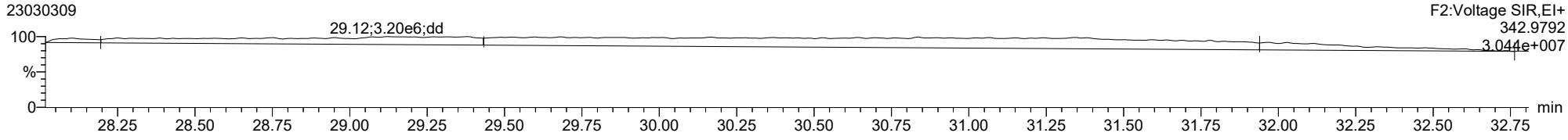

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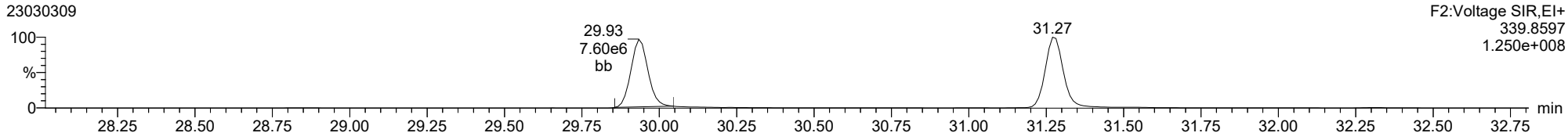

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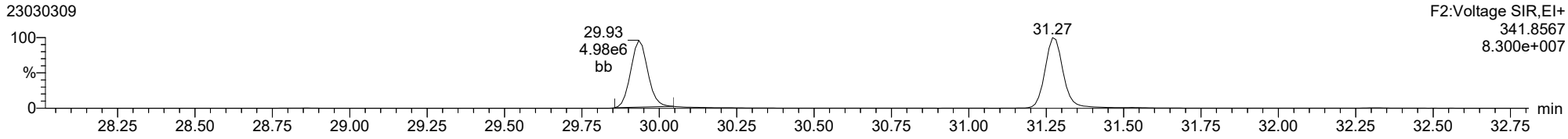

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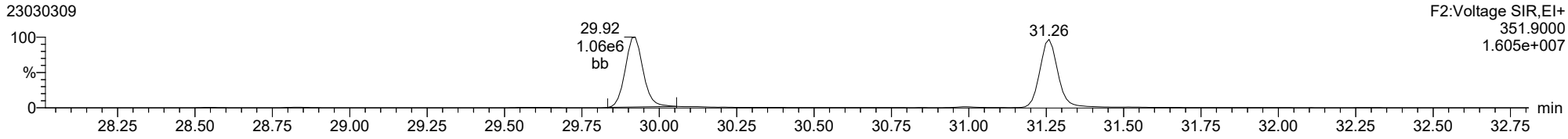

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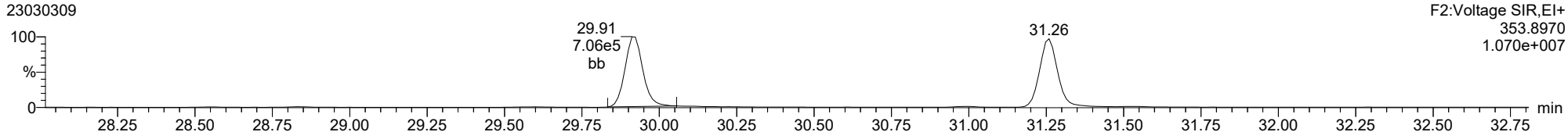

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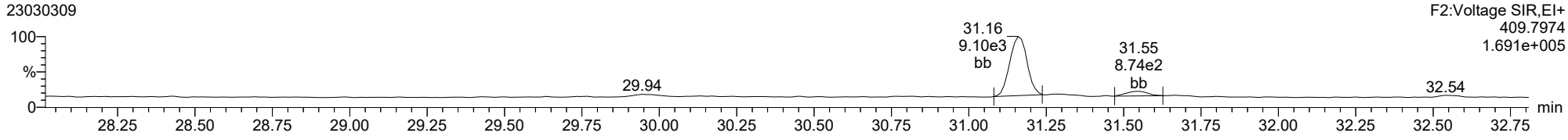

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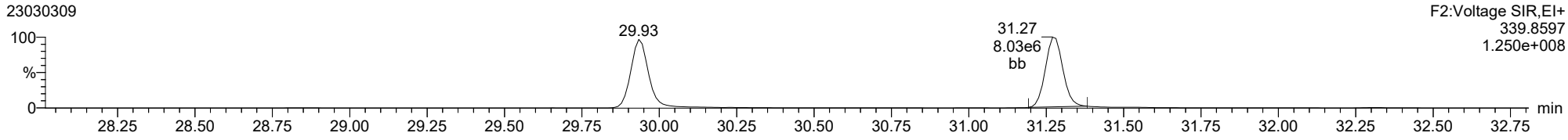

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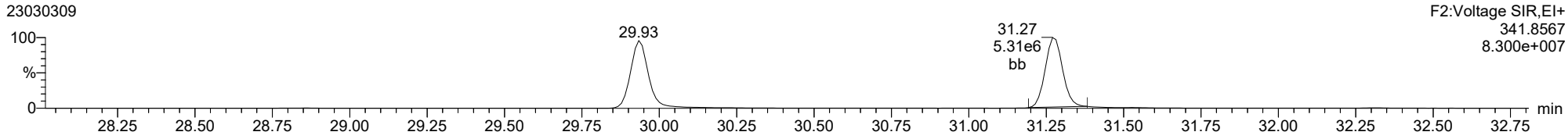

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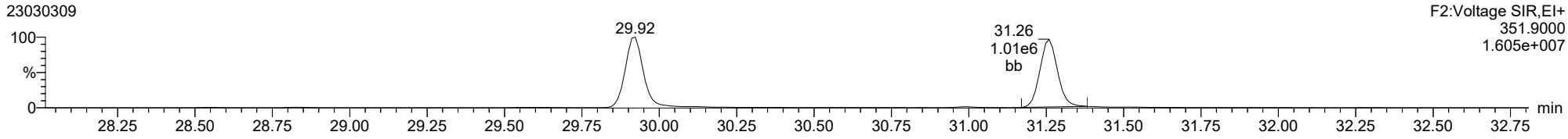

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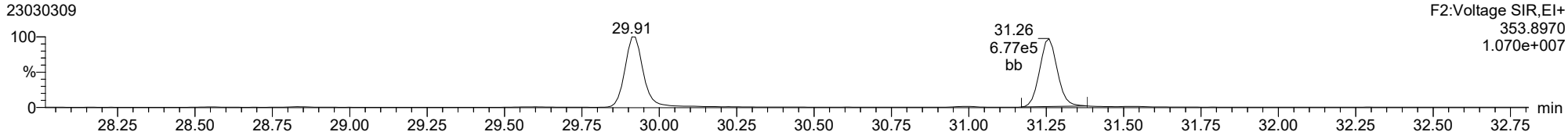

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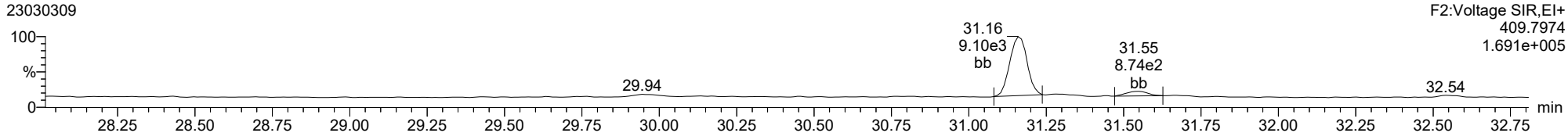

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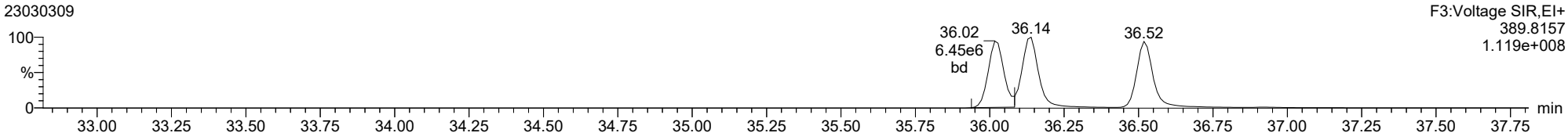

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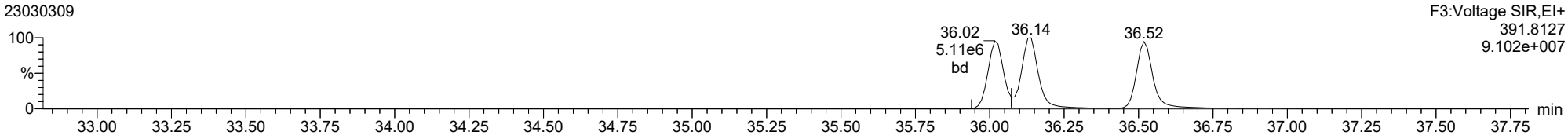

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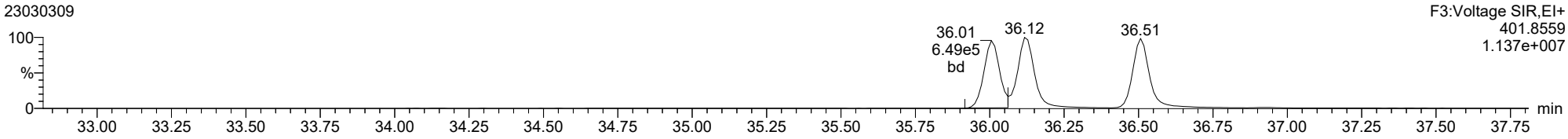

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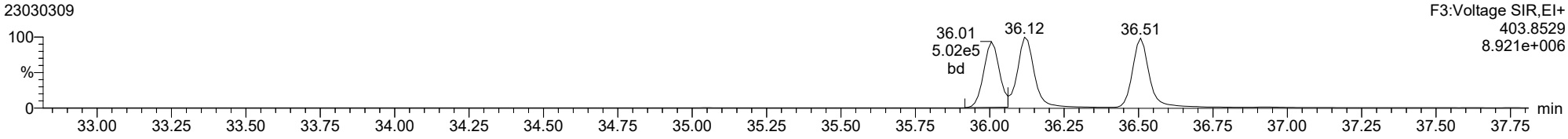

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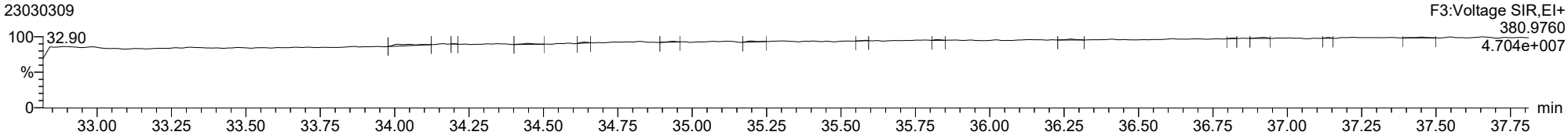

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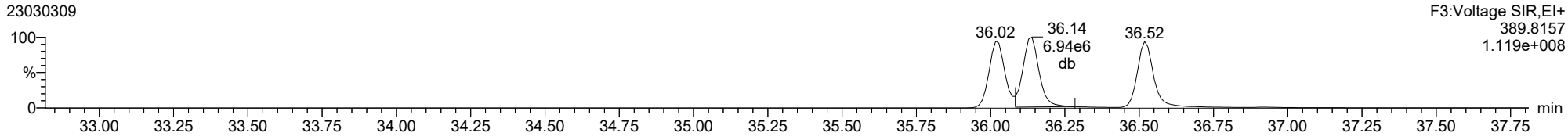

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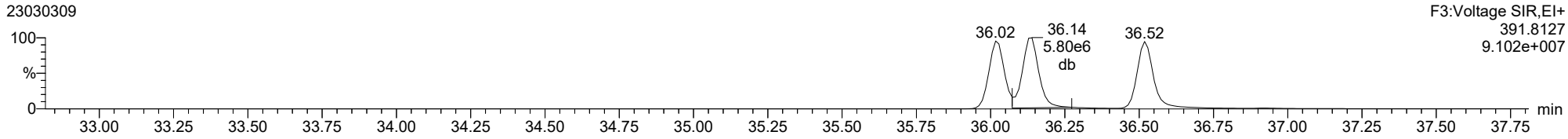

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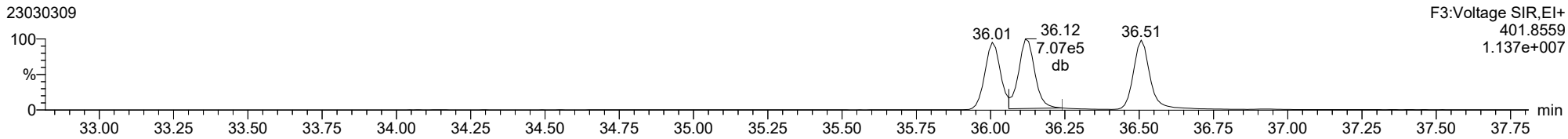

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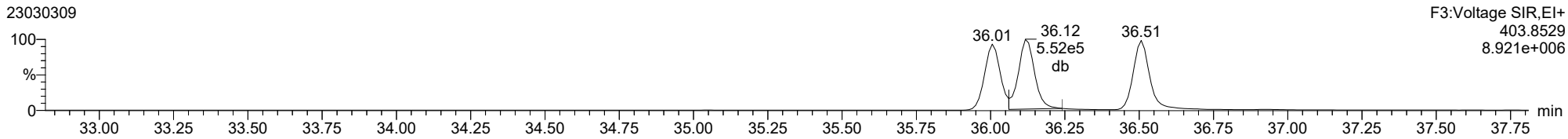

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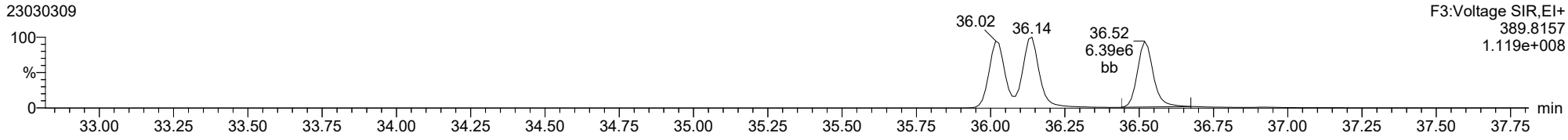

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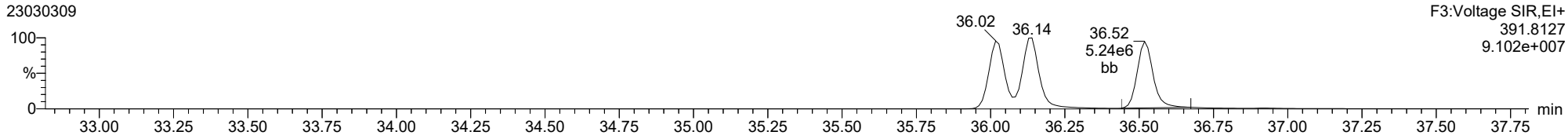

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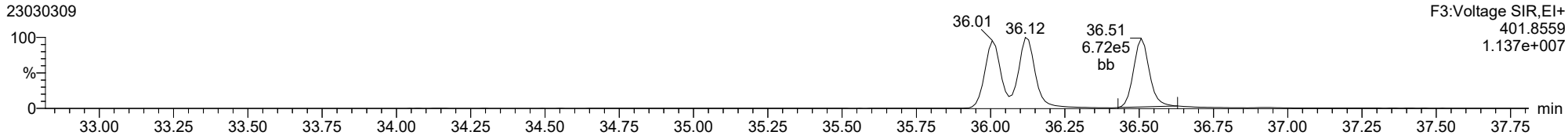

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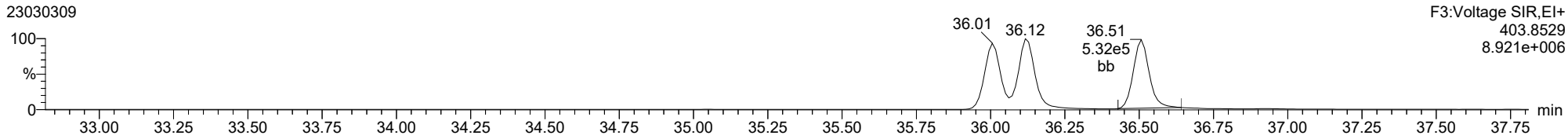

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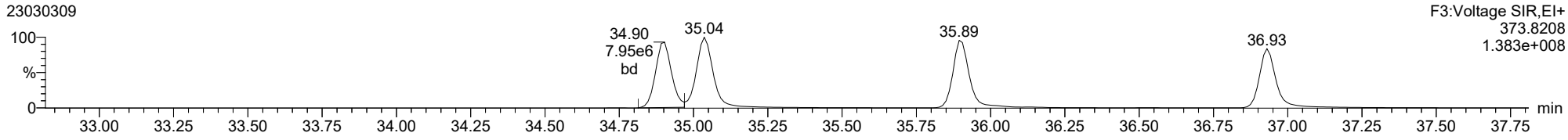

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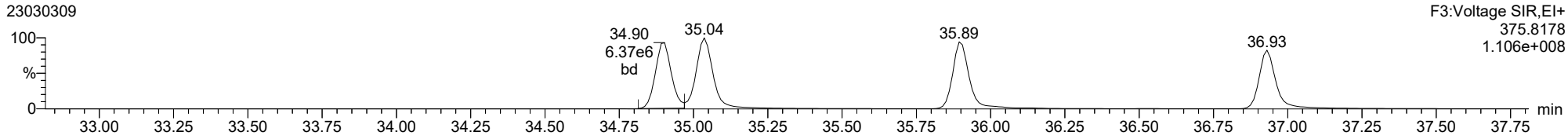

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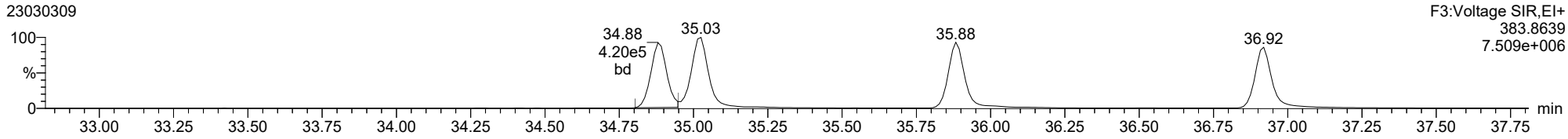

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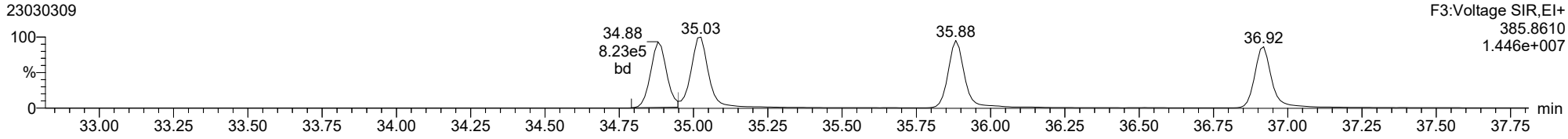

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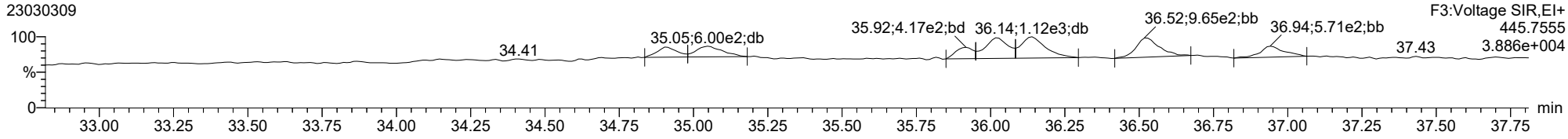

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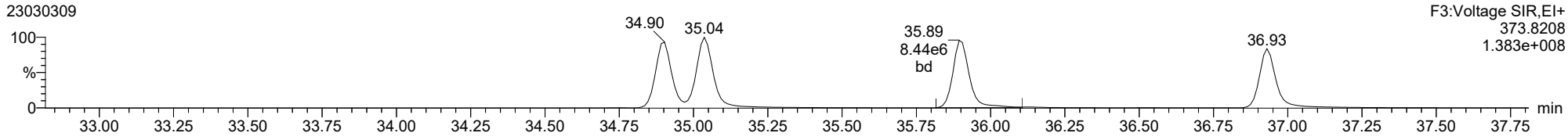

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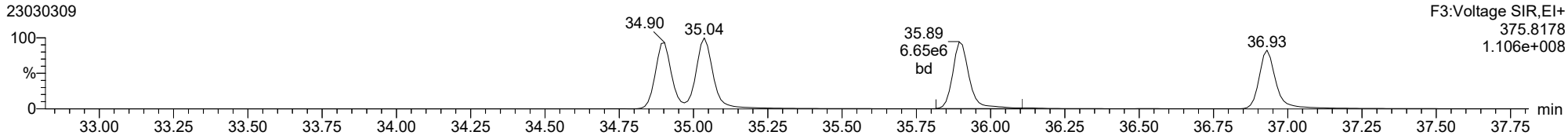

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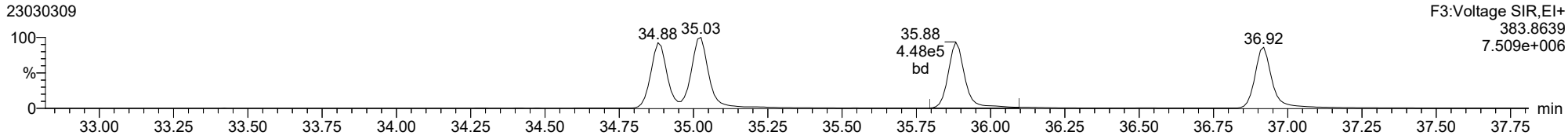

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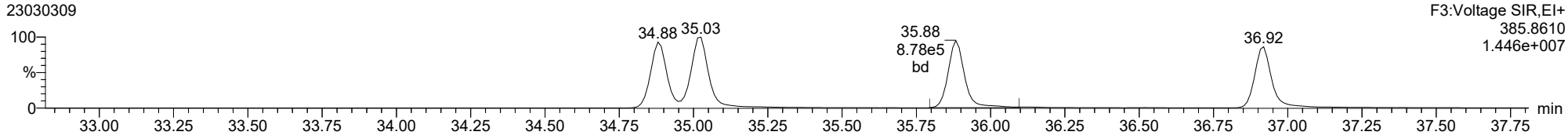

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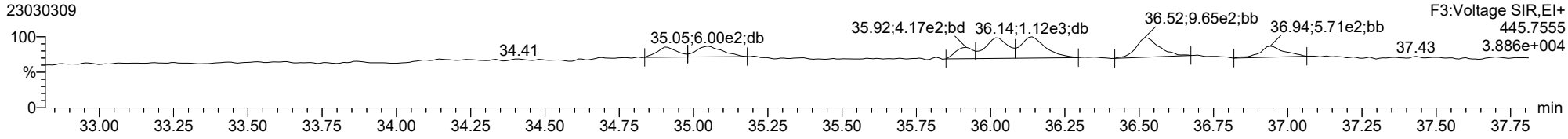

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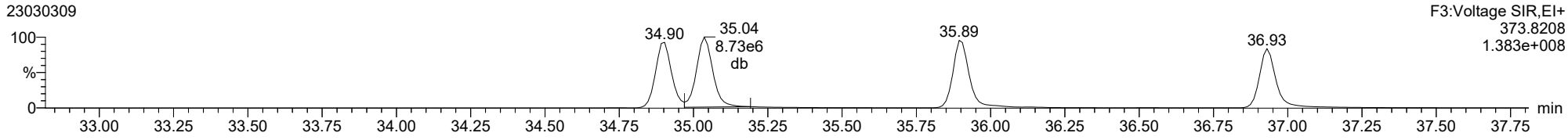

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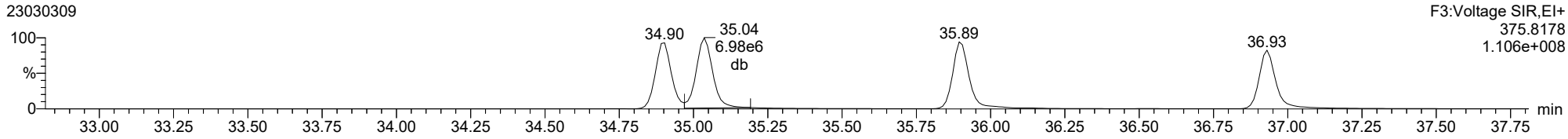

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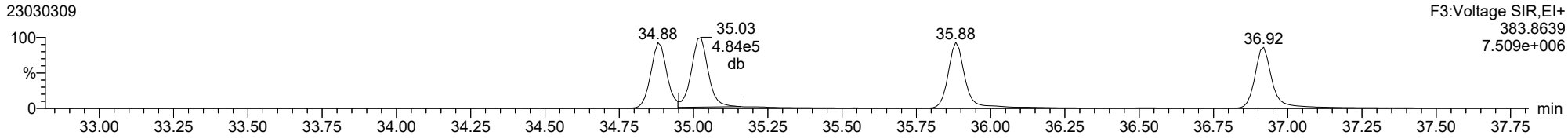

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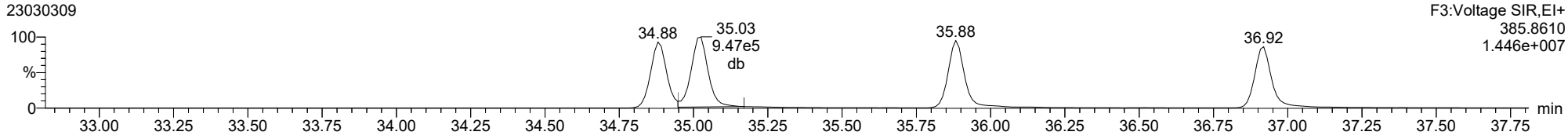

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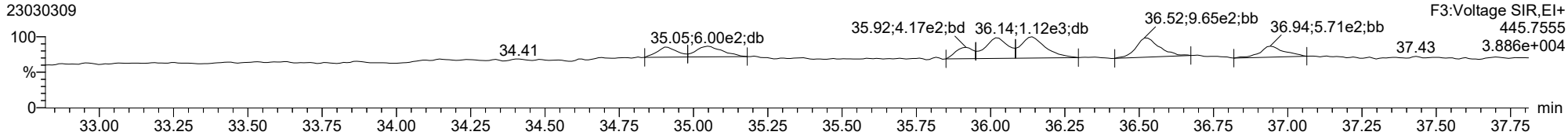

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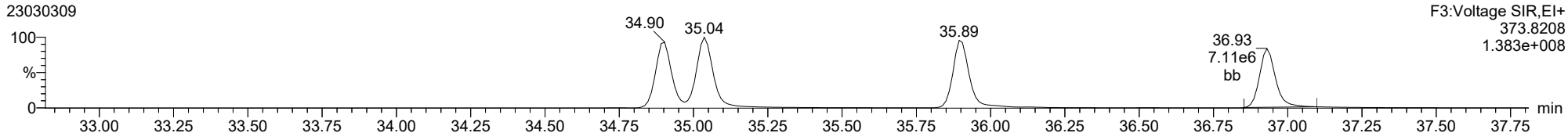

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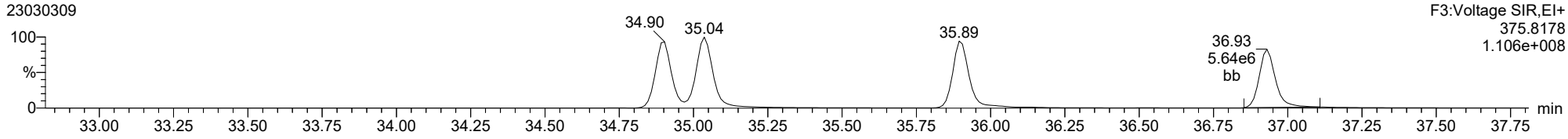

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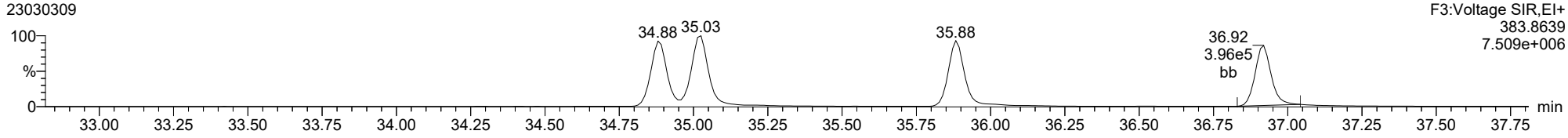

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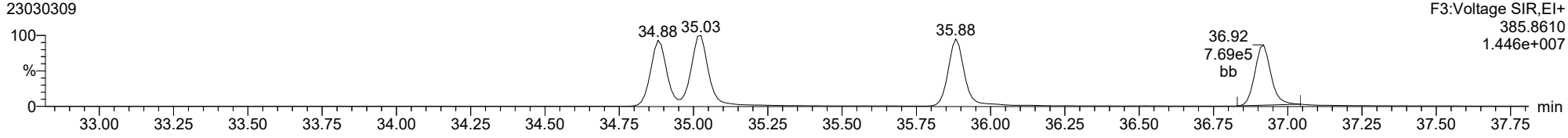

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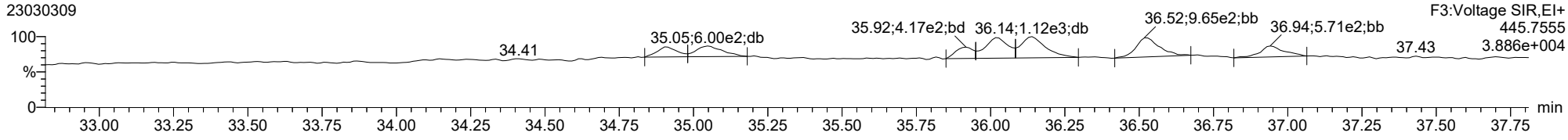

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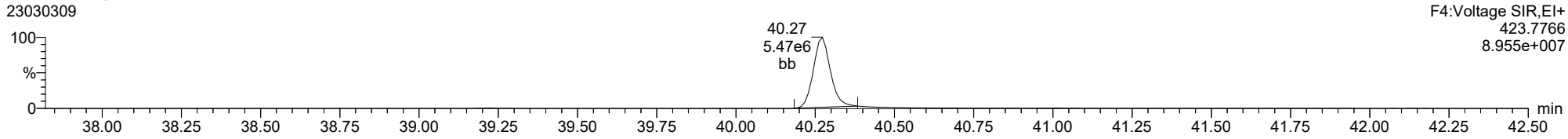

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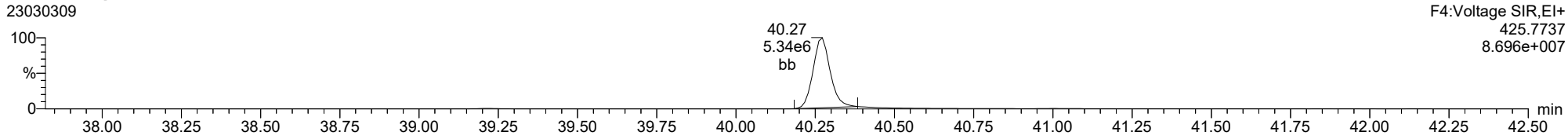

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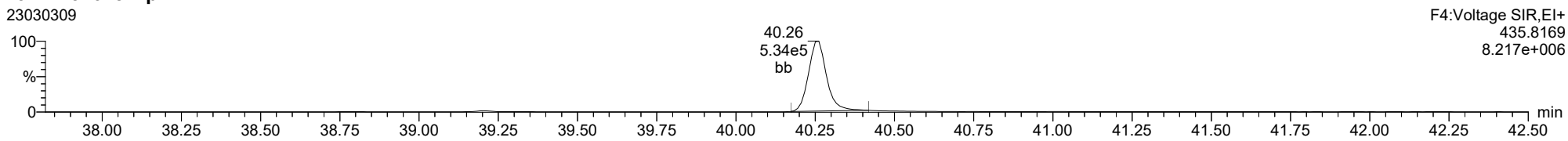

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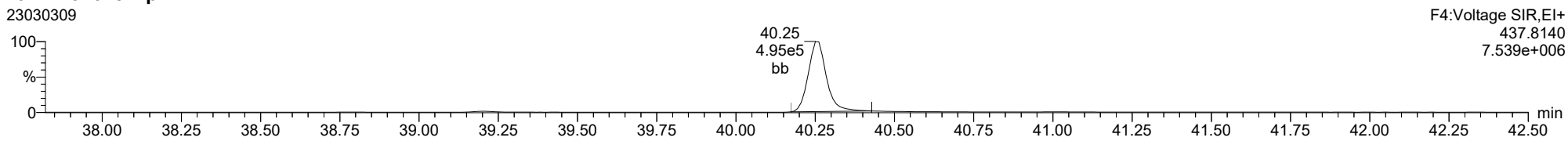

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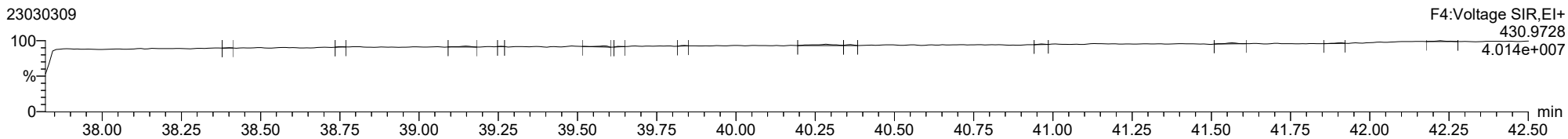

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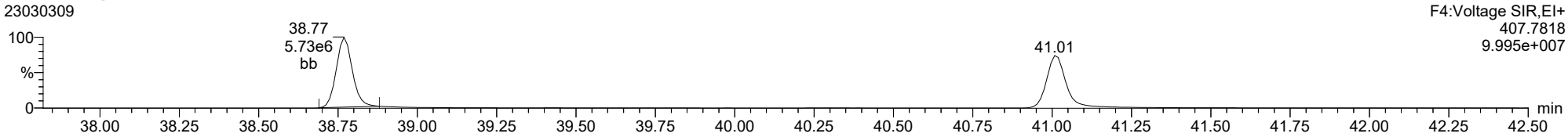

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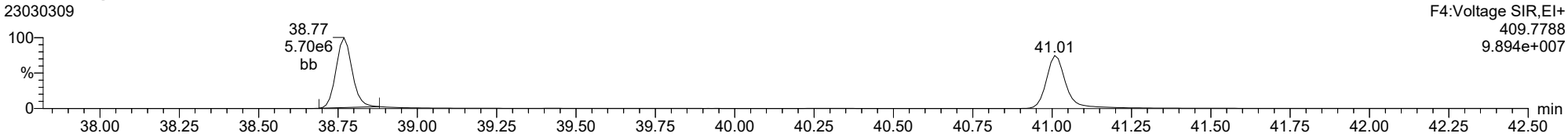

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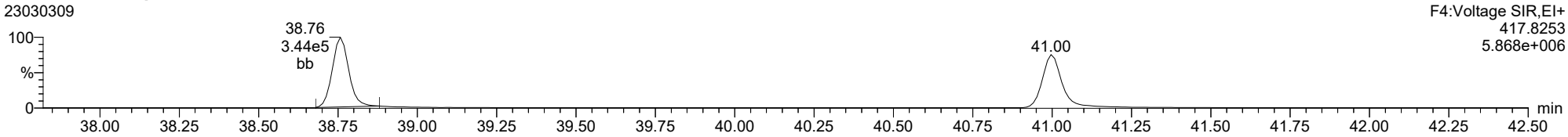

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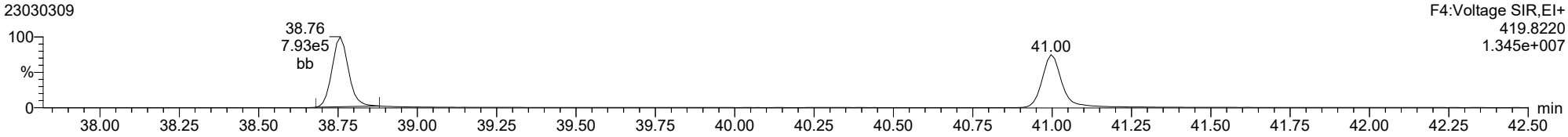

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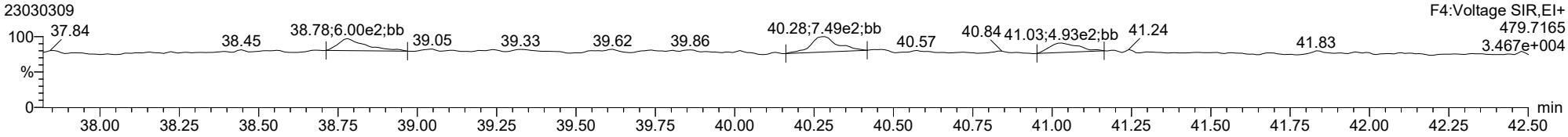

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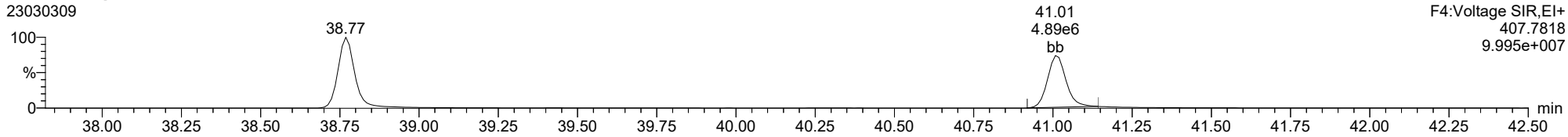

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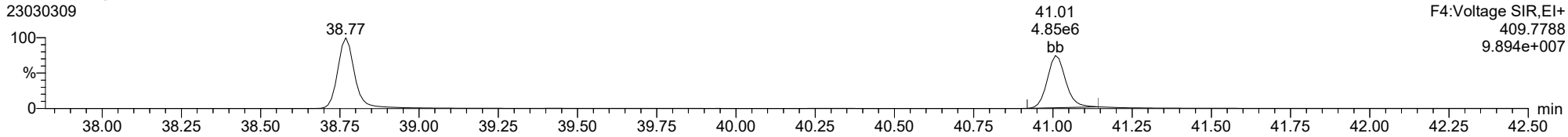

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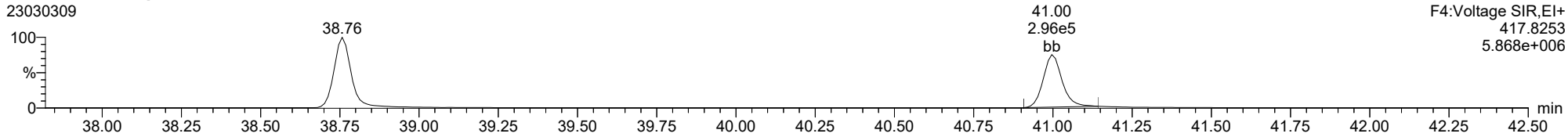

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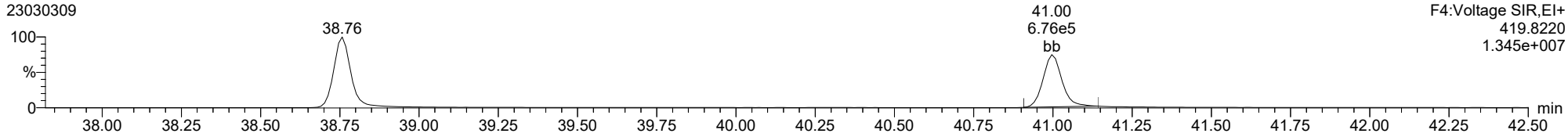

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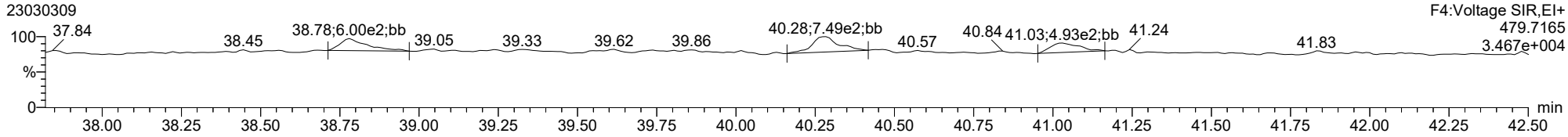

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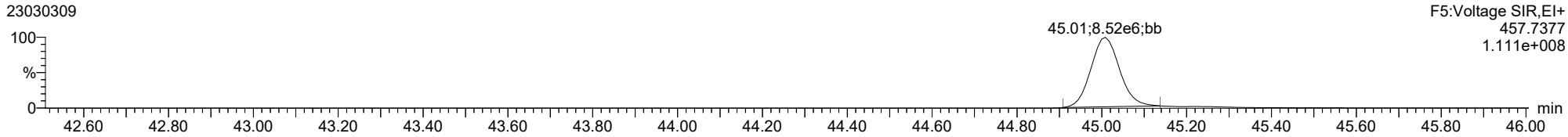

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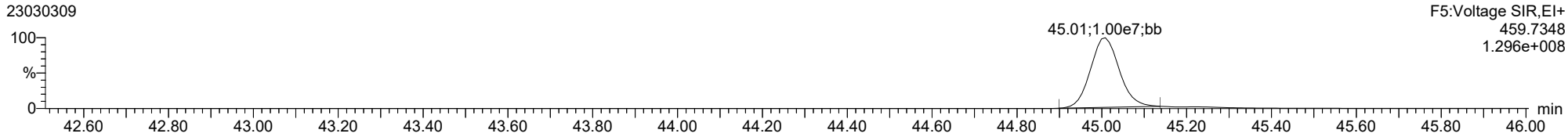

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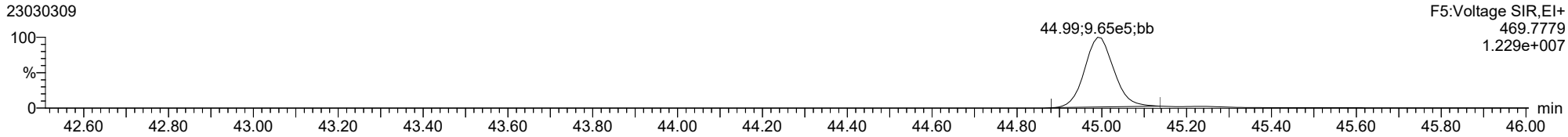

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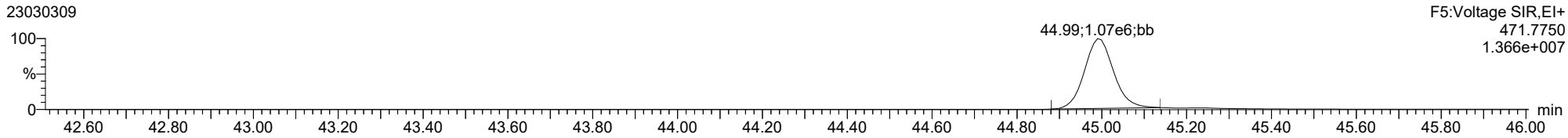
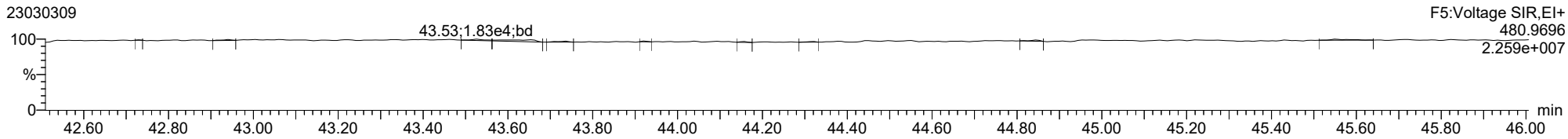


FUNCTION5 PFK



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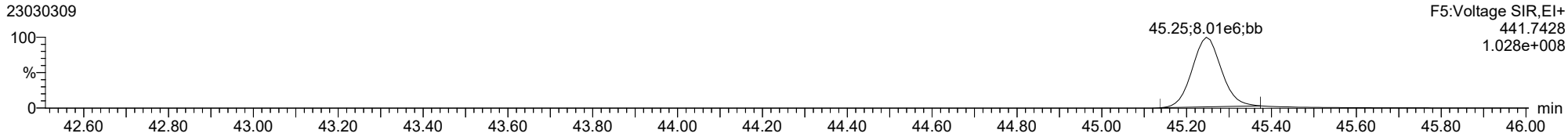

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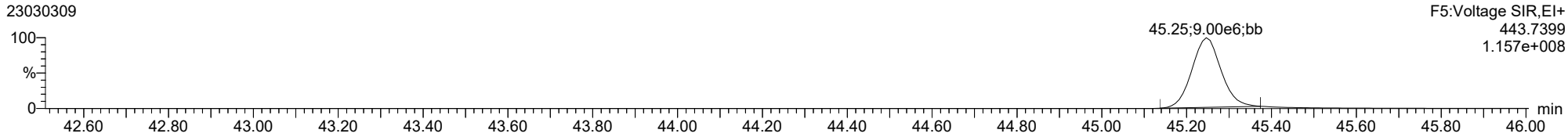
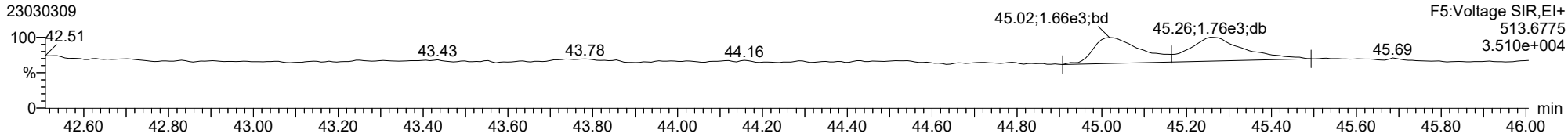


FUNCTION5 DCDPE



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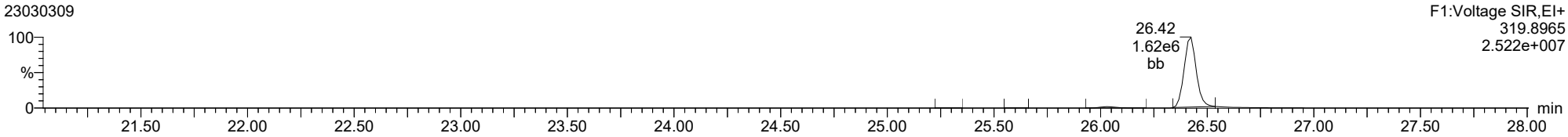
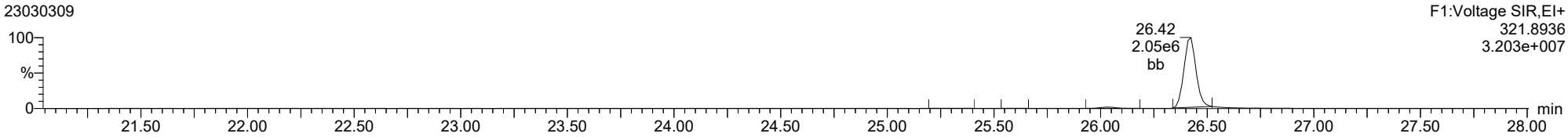
Total-tetradioxins



Total-tetradioxins



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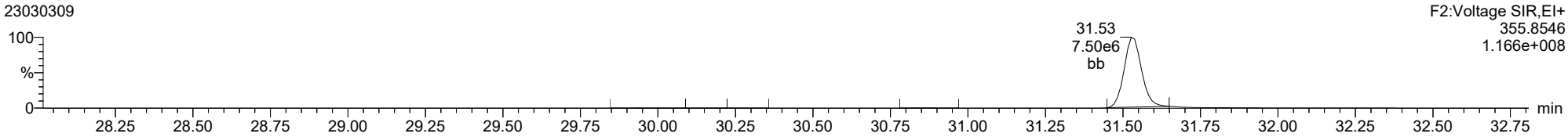
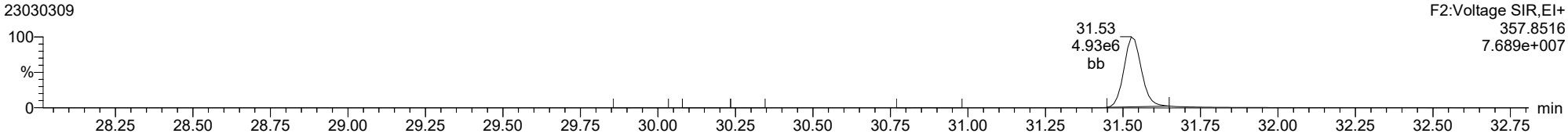


Total-pentadioxins



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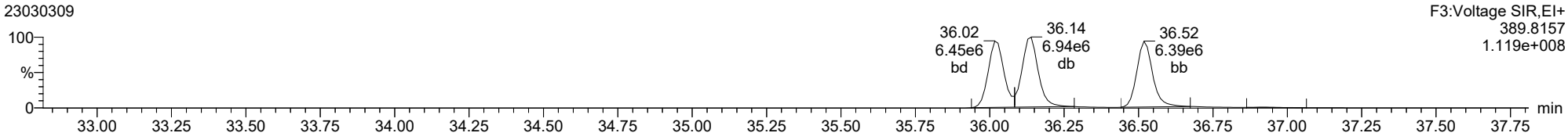
Total-hexadioxins



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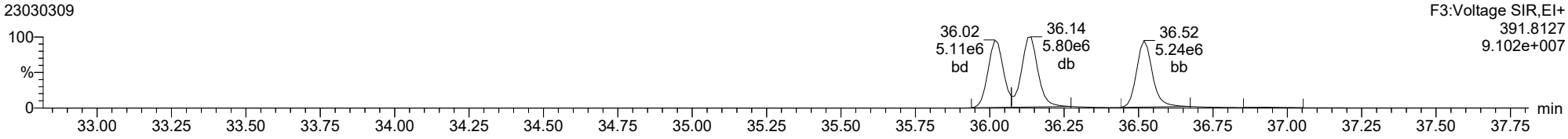

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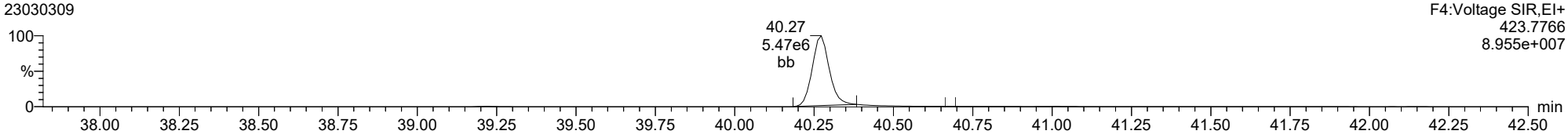

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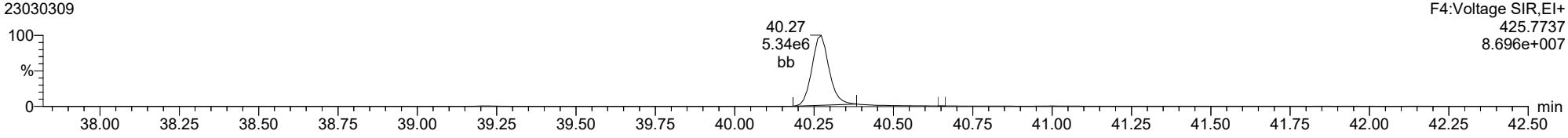

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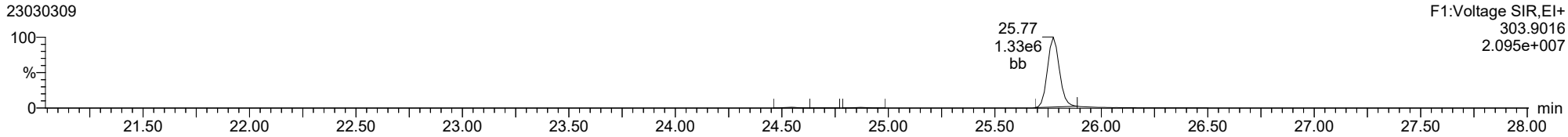
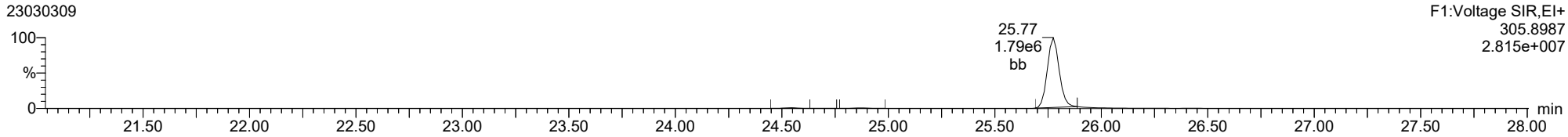
Total-tetrafurans



Total-tetrafurans



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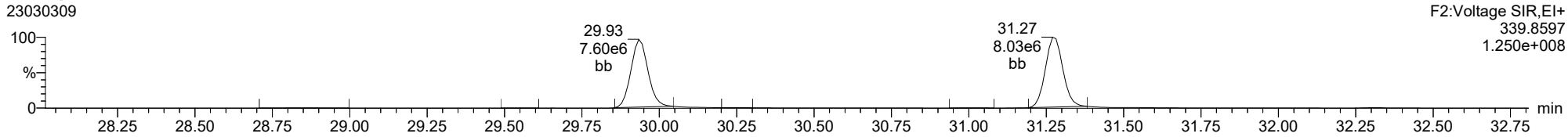
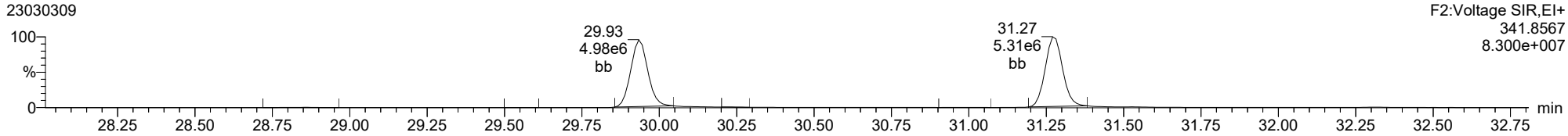


Total-pentafurans



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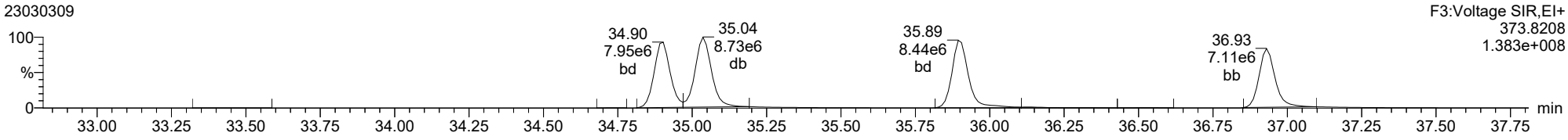
Total-hexafurans



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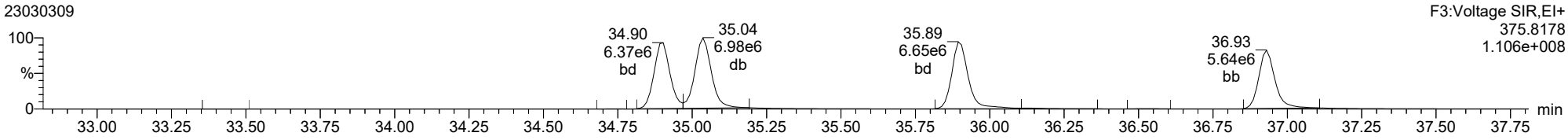
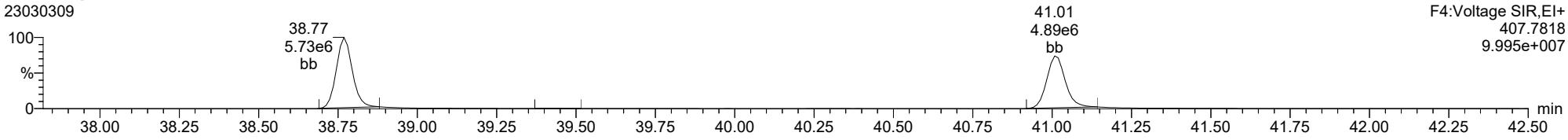
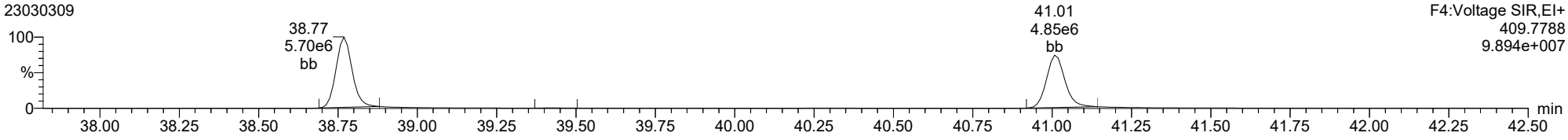


Total-heptafurans



Total-heptafurans



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Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	5.338e4	7.452e4	0.702	0.716	0.770	1163	2029	8.36e5	1.13e6	718.7	556.3	NO	bb	bb	9.838
12378-PeCDF	29.934	1.000	2.214e5	1.526e5	0.679	1.451	1.550	3022	2812	3.24e6	2.15e6	1073.8	764.7	NO	bb	bd	51.391
23478-PeCDF	31.271	1.000	2.350e5	1.508e5	0.786	1.559	1.550	3022	2812	3.42e6	2.23e6	1131.6	792.3	NO	bb	bb	48.980
123478-HxCDF	34.903	1.001	2.903e5	2.325e5	1.166	1.248	1.240	3142	2543	4.30e6	3.42e6	1370.1	1344.7	NO	bd	bd	48.245
234678-HxCDF	35.905	1.001	2.873e5	2.291e5	1.140	1.254	1.240	3142	2543	4.27e6	3.38e6	1358.7	1330.7	NO	bb	bb	50.224
123678-HxCDF	35.036	1.001	3.271e5	2.812e5	1.091	1.163	1.240	3142	2543	4.70e6	3.76e6	1497.0	1479.3	NO	db	db	47.992
123789-HxCDF	36.930	1.001	2.403e5	1.952e5	1.137	1.231	1.240	3142	2543	3.49e6	2.77e6	1110.7	1088.1	NO	bb	bb	49.077
1234678-HpCDF	38.769	1.000	2.051e5	2.017e5	1.003	1.017	1.050	2774	2508	3.29e6	3.29e6	1185.4	1309.8	NO	bb	bb	51.838
1234789-HpCDF	41.008	1.000	1.584e5	1.578e5	0.953	1.004	1.050	2774	2508	2.19e6	2.22e6	790.9	884.0	NO	bb	bb	48.461
OCDF	45.237	1.006	2.094e5	2.177e5	0.778	0.962	0.890	1876	1660	2.24e6	2.46e6	1194.3	1483.7	NO	bd	bb	103.506
2378-TCDD	26.424	1.001	6.583e4	8.225e4	1.149	0.800	0.770	1514	1206	9.92e5	1.24e6	654.9	1028.2	NO	bb	bb	9.815
12378-PeCDD	31.538	1.001	2.257e5	1.459e5	1.022	1.547	1.550	2000	2144	3.28e6	2.13e6	1638.2	994.7	NO	bb	bb	48.547
123478-HxCDD	36.016	1.000	2.316e5	1.815e5	0.996	1.276	1.240	2983	1710	3.62e6	3.01e6	1214.5	1762.3	NO	bd	bd	50.799
123678-HxCDD	36.139	1.001	2.694e5	2.159e5	1.001	1.248	1.240	2983	1710	3.76e6	3.05e6	1260.5	1785.9	NO	db	db	50.174
123789-HxCDD	36.518	1.011	2.330e5	1.844e5	0.907	1.263	1.240	2983	1710	3.29e6	2.69e6	1104.0	1571.7	NO	bd	bb	51.608
1234678-HpCDD	40.272	1.001	1.962e5	1.803e5	1.039	1.088	1.050	2922	2339	2.72e6	2.60e6	932.5	1113.0	NO	bd	bb	49.199
OCDD	44.999	1.000	2.234e5	2.618e5	0.920	0.853	0.890	1774	1393	2.65e6	3.06e6	1496.5	2199.2	NO	bb	bb	99.422
13C-2378-TCDF	25.760	1.007	7.988e5	1.054e6	1.620	0.758	0.770	2799	1492	1.21e7	1.60e7	4320.8	10737.9	NO	bb	bb	96.925
13C-12378-PeCDF	29.923	1.169	6.425e5	4.290e5	1.240	1.498	1.550	3398	4585	8.78e6	5.86e6	2583.4	1278.4	NO	bd	bd	73.193
13C-23478-PeCDF	31.259	1.222	6.035e5	3.982e5	1.118	1.515	1.550	3398	4585	8.73e6	5.79e6	2568.3	1261.6	NO	bb	bb	75.943
13C-123478-HxCDF	34.880	0.955	3.186e5	6.107e5	1.168	0.522	0.510	2913	2215	4.74e6	9.25e6	1627.4	4175.4	NO	bd	bd	92.972
13C-123678-HxCDF	35.014	0.959	3.885e5	7.735e5	1.386	0.502	0.510	2913	2215	5.29e6	1.03e7	1816.0	4636.7	NO	dd	db	97.958
13C-234678-HxCDF	35.883	0.983	3.009e5	6.013e5	1.129	0.500	0.510	2913	2215	4.56e6	8.94e6	1567.0	4037.6	NO	bb	bb	93.371
13C-123789-HxCDF	36.908	1.011	2.634e5	5.171e5	0.932	0.509	0.510	2913	2215	3.83e6	7.41e6	1313.2	3346.2	NO	bb	bb	97.906
13C-1234678-HpCDF	38.757	1.062	2.395e5	5.428e5	0.895	0.441	0.440	2666	4327	3.79e6	8.70e6	1422.6	2009.5	NO	bb	bb	102.148
13C-1234789-HpCDF	40.997	1.123	1.971e5	4.875e5	0.770	0.404	0.440	2666	4327	2.64e6	6.15e6	990.0	1422.1	NO	bb	bb	103.953
13C-1234-TCDD	25.591	0.000	5.239e5	6.562e5	1.000	0.798	0.770	2541	1448	8.13e6	1.01e7	3200.8	6994.1	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	5.859e5	7.277e5	1.152	0.805	0.770	2541	1448	8.48e6	1.06e7	3338.5	7327.1	NO	bb	bb	96.583
13C-12378-PeCDD	31.515	1.232	4.640e5	2.850e5	0.829	1.628	1.550	1690	813	6.82e6	4.16e6	4037.7	5122.1	NO	bb	bb	76.570
13C-123478-HxCDD	36.005	0.986	4.566e5	3.601e5	0.995	1.268	1.240	2230	1571	7.33e6	5.72e6	3288.3	3642.7	NO	bd	bd	95.938
13C-123678-HxCDD	36.117	0.989	5.277e5	4.388e5	1.157	1.203	1.240	2230	1571	7.53e6	5.98e6	3378.3	3806.0	NO	db	db	97.660
13C-1234678-HpCDD	40.250	1.102	3.788e5	3.578e5	0.840	1.059	1.050	1327	2781	5.06e6	4.73e6	3813.0	1700.4	NO	bd	bb	102.476
13C-OCDD	44.981	1.232	5.015e5	5.594e5	0.767	0.896	0.890	2228	1562	5.65e6	6.37e6	2536.4	4080.5	NO	bb	bb	161.563
13C-123789-HxCDD	36.507	0.000	4.814e5	3.742e5	1.000	1.287	1.240	2230	1571	7.02e6	5.48e6	3149.1	3490.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	1.324e5		1.288			2249		1.92e6		853.0			bb		8.714

Dataset: T:\Autospec\Processed Data Batch\230303IHICV.qld
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Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	6.666e4	8.755e4	0.802	0.761	0.770	1163	2029	1.09e6	1.45e6	933.7	713.4	NO	bb	bb	10.382
1289-TCDF	27.272	1.059	5.306e4	7.400e4	0.678	0.717	0.770	1163	2029	8.00e5	1.11e6	688.3	549.0	NO	bb	db	10.112
13468-PECDF	27.130	0.907	5.428e5	3.536e5	1.246	1.535	1.550	921	1306	8.56e6	5.56e6	9287.8	4254.6	NO	bb	bb	67.124
12389-PECDF	32.307	1.080	2.363e5	1.551e5	0.496	1.524	1.550	3022	2812	3.29e6	2.19e6	1088.1	777.6	NO	bb	bb	73.589
123468-HXCDF	33.231	0.953	3.102e5	2.472e5	1.169	1.255	1.240	3142	2543	4.60e6	3.67e6	1465.3	1443.2	NO	bb	bb	51.304
1368-TCDD	23.557	0.892	6.641e4	8.365e4	1.015	0.794	0.770	1514	1206	1.07e6	1.32e6	704.3	1092.4	NO	bb	bb	11.251
1289-TCDD	27.017	1.023	6.055e4	8.062e4	0.909	0.751	0.770	1514	1206	8.59e5	1.12e6	567.6	932.6	NO	bd	bd	11.826
12479-PECDD	28.819	0.914	4.776e5	3.067e5	2.301	1.557	1.550	2000	2144	4.46e6	2.89e6	2227.8	1348.6	NO	bb	bb	45.504
12389-PECDD	31.928	1.013	2.675e5	1.746e5	1.184	1.532	1.550	2000	2144	3.96e6	2.51e6	1980.6	1171.6	NO	bb	bb	49.870
124679-HXCDD	34.011	0.945	2.545e5	2.054e5	1.115	1.239	1.240	2983	1710	3.72e6	3.05e6	1245.7	1780.9	NO	bb	bb	50.484
1234679-HPCDD	39.225	0.975	2.082e5	2.022e5	1.137	1.029	1.050	2922	2339	3.21e6	3.09e6	1099.8	1322.5	NO	bb	bb	49.010
Total-tetrafurans			1.731e5		0.727			1163		2.72e6							30.332
Total-penta1			5.428e5					921		8.56e6							67.124
Total-pentafurans			7.375e5		0.654			3022		1.06e7							184.995
Total-hexafurans			1.455e6		1.141			3142		2.14e7							246.841
Total-heptafurans			3.635e5		0.978			2774		5.48e6							100.299
Total-Furans			3.482e6		0.922			1163		5.10e7							733.097
Total-tetradioxins			3.292e5		1.024			1514		4.53e6							56.345
Total-pentadioxins			9.708e5		1.502			2000		1.17e7							143.922
Total-hexadioxins			9.885e5		1.005			2983		1.44e7							203.065
Total-heptadioxins			4.044e5		1.088			2922		5.94e6							98.208
Total-Dioxins			2.916e6		1.130			1514		3.92e7							600.962
Total-TEQ			6.398e6					1514		9.02e7							1334.059
FUNCTION1 PFK			0.000e0					539943		0.00e0							
FUNCTION2 PFK			2.253e6					228820		1.84e6							0.000
FUNCTION3 PFK			3.977e4					386595		8.75e5							0.000
FUNCTION4 PFK			7.296e4					280107		2.70e6							
FUNCTION5 PFK			1.323e3					209307		1.46e5							
FUNCTION1 HXCD...			6.633e2					708		9.34e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			5.152e2					1165		9.44e3							0.000
FUNCTION3 OCDPE			5.246e2					459		6.83e3							0.000
FUNCTION4 NCDPE			4.889e2					641		6.04e3							0.000
FUNCTION5 DCDPE			0.000e0					644		0.00e0							

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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
2	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
3	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
4	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
2	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
3	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
4	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
5	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
2	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382
4	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
5	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
6	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
7	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035
8	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
9	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
10	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
11	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
12	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992
13	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
14	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461
15	OCDF	45.24	2.094e5	2.177e5	0.778	0.96	0.89	1194.3	YES	NO	bd	bb	103.506
16	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
2	Total-tetradioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
3	Total-tetradioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
4	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
5	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
6	Total-tetradioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
7	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
8	Total-tetradioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
2	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
3	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
2	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
3	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
4	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
2	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
2	Total-tetradioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
3	Total-tetradioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
4	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
5	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
6	Total-tetradioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
7	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
8	Total-tetradioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347
9	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
10	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
11	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504
12	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
13	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
14	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
15	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799
16	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
17	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199
18	OCDD	45.00	2.234e5	2.618e5	0.920	0.85	0.89	1496.5	YES	NO	bb	bb	99.422

Dataset: T:\Autospec\Processed Data Batch\230303IHICV.qld
Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382
4	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
5	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
6	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
7	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035
8	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
9	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
10	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
11	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
12	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992
13	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
14	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461
15	OCDF	45.24	2.094e5	2.177e5	0.778	0.96	0.89	1194.3	YES	NO	bd	bb	103.506
16	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124
17	Total-tetradioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
18	Total-tetradioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
19	Total-tetradioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
20	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
21	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
22	Total-tetradioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
23	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
24	Total-tetradioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347
25	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
26	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
27	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504
28	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
29	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
30	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
31	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799
32	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
33	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199
34	OCDD	45.00	2.234e5	2.618e5	0.920	0.85	0.89	1496.5	YES	NO	bb	bb	99.422

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.14	2.253e6					8.0	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.08	3.977e4					2.3	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.32	4.162e3					0.8	NO		bb		
2	FUNCTION4 PFK	40.68	1.340e4					1.2	NO		bb		
3	FUNCTION4 PFK	40.50	1.024e4					1.3	NO		bb		
4	FUNCTION4 PFK	40.07	1.056e4					1.2	NO		bb		
5	FUNCTION4 PFK	39.50	1.007e4					1.4	NO		bb		
6	FUNCTION4 PFK	42.14	1.085e4					1.0	NO		bb		
7	FUNCTION4 PFK	42.10	6.400e3					1.1	NO		bb		
8	FUNCTION4 PFK	41.87	1.885e3					0.6	NO		bb		
9	FUNCTION4 PFK	41.61	5.389e3					0.9	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.23	1.323e3					0.7	NO		bb		

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.55	1.589e2					2.0	NO		db		0.000
2	FUNCTION1 HXCD...	26.42	1.755e2					3.2	YES		bd		0.000
3	FUNCTION1 HXCD...	25.59	9.854e1					1.9	NO		bb		0.000
4	FUNCTION1 HXCD...	23.87	7.096e1					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	23.56	8.003e1					2.4	NO		bb		0.000
6	FUNCTION1 HXCD...	22.40	7.940e1					1.8	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.33	1.101e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	28.89	7.875e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	31.17	3.263e2					4.7	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	1.586e2					5.0	YES		bb		0.000
2	FUNCTION3 OCDPE	36.13	1.909e2					4.9	YES		db		0.000
3	FUNCTION3 OCDPE	35.99	1.751e2					5.1	YES		bd		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.06	1.247e2					2.2	NO		db		0.000
2	FUNCTION4 NCDPE	40.94	7.187e1					1.7	NO		bd		0.000
3	FUNCTION4 NCDPE	40.37	7.003e1					1.7	NO		db		0.000
4	FUNCTION4 NCDPE	40.26	2.223e2					3.8	YES		bd		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: T:\Autospec\Processed Data Batch\230303IHICV.qld
Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

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ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

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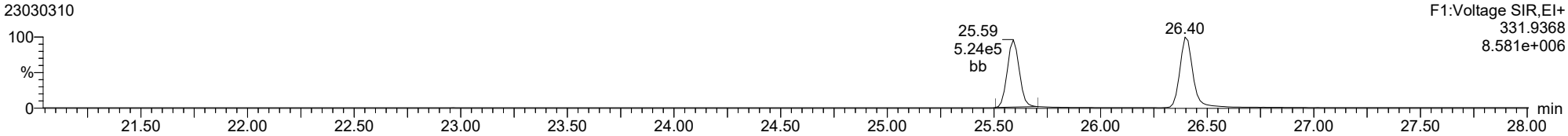

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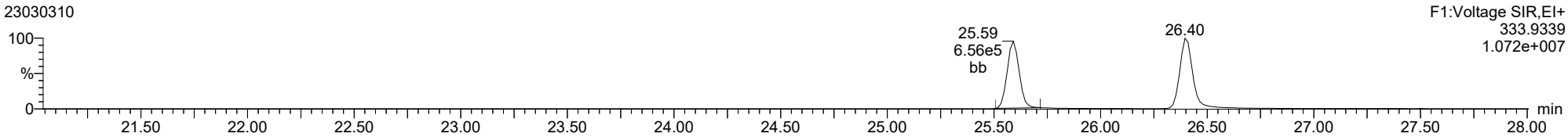

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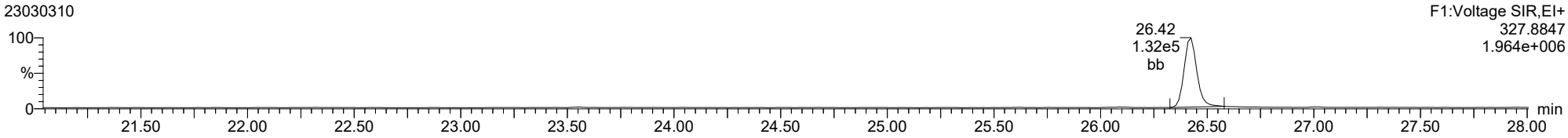

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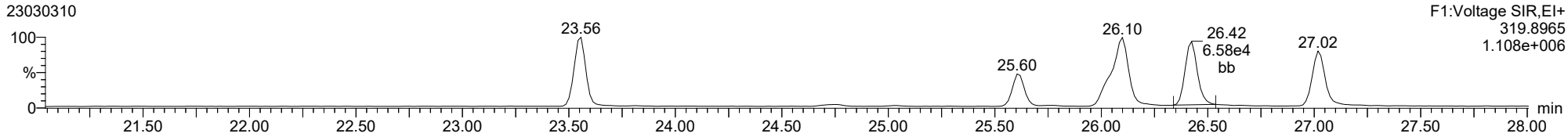

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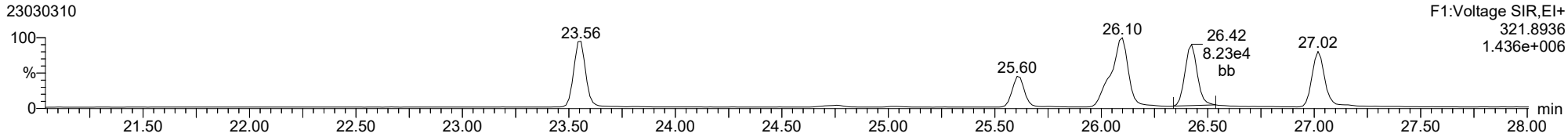

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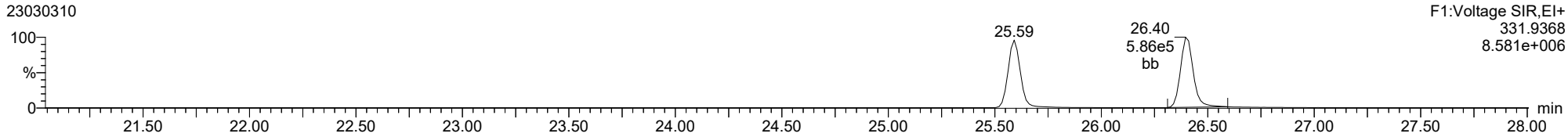

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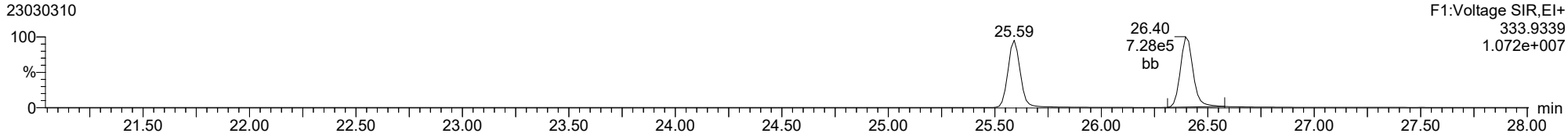

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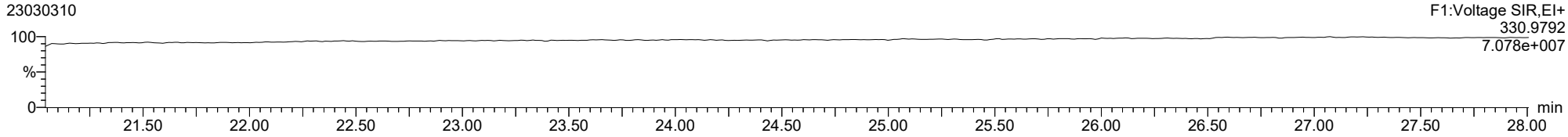

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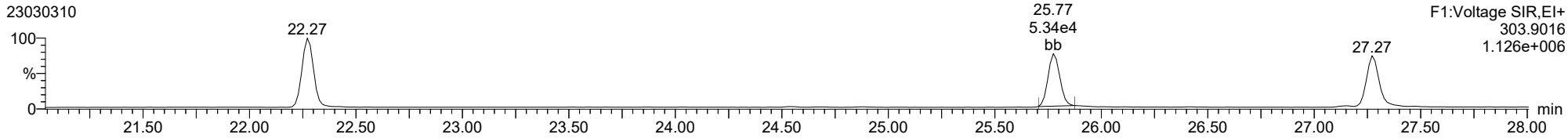
2378-TCDF



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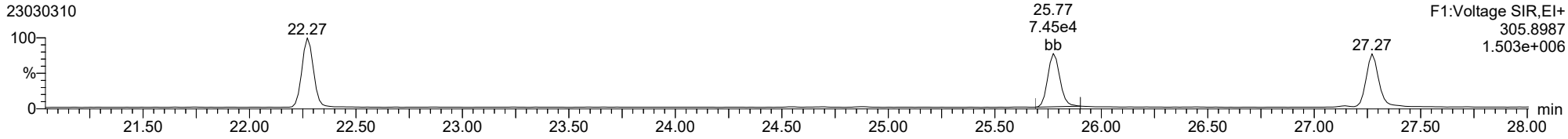

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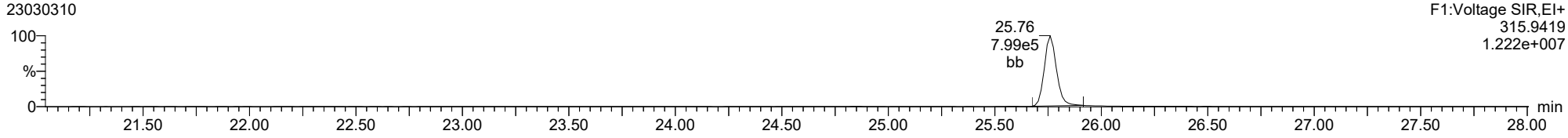

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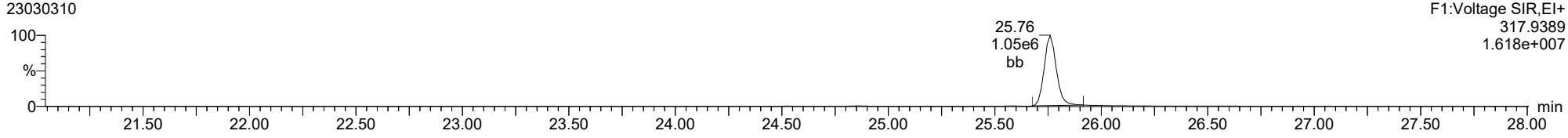

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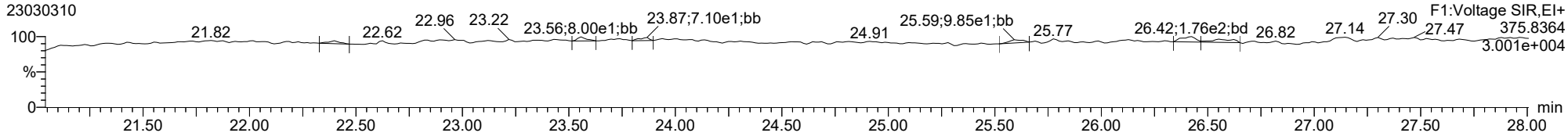

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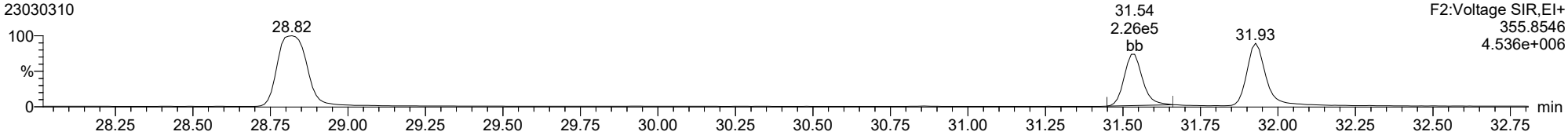
12378-PeCDD



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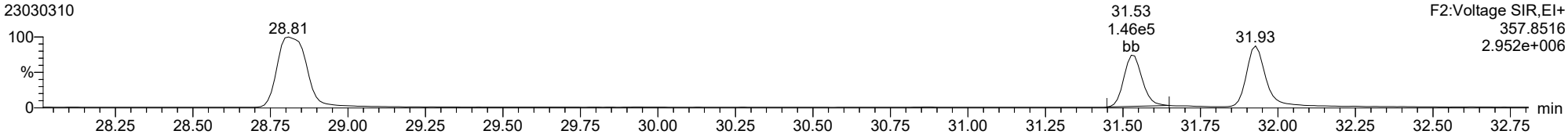

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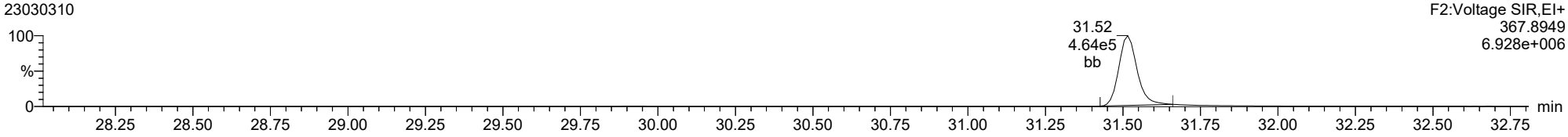

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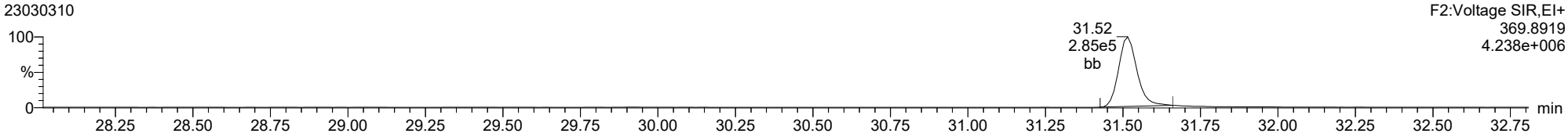

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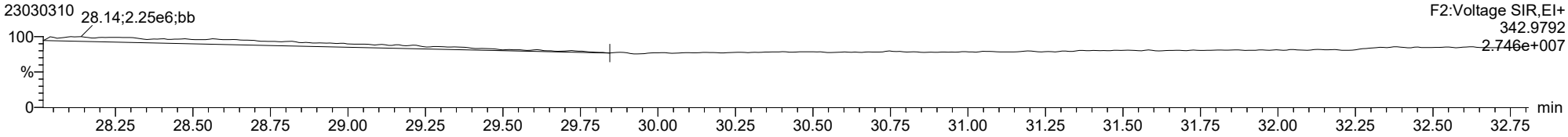

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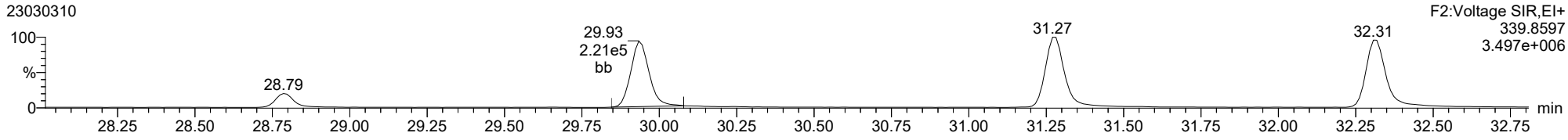

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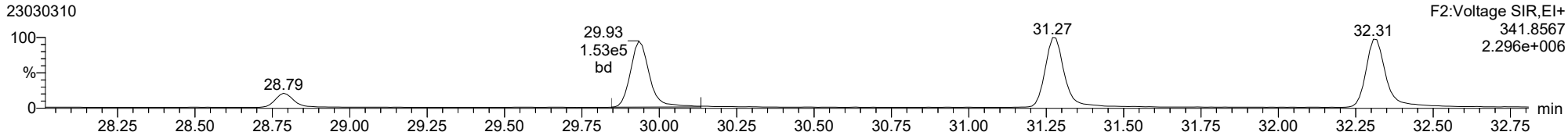

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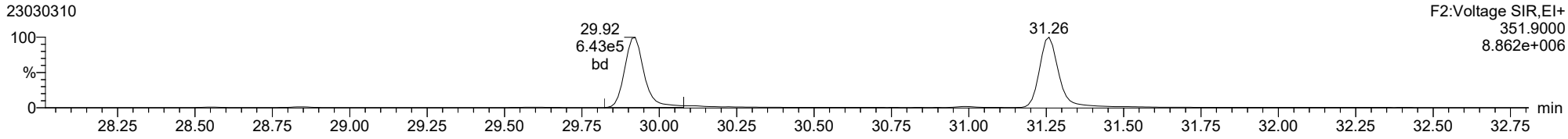

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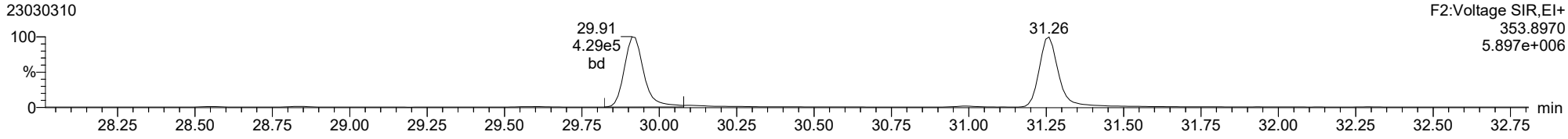

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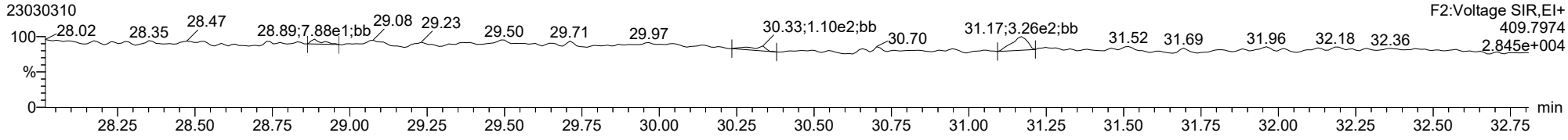

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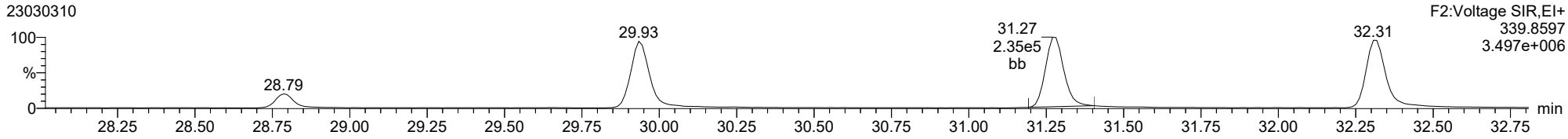

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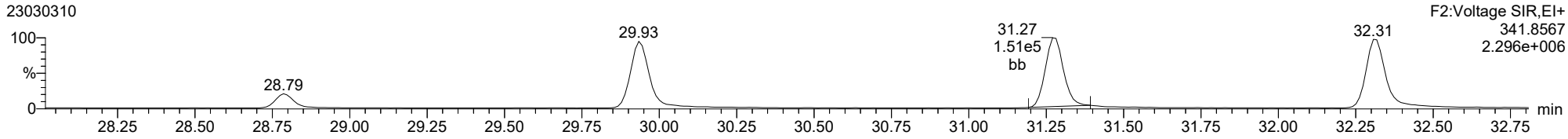

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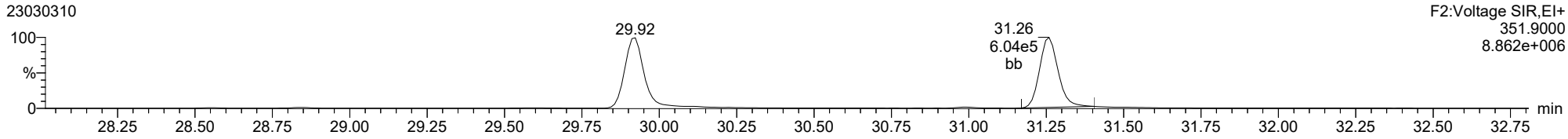

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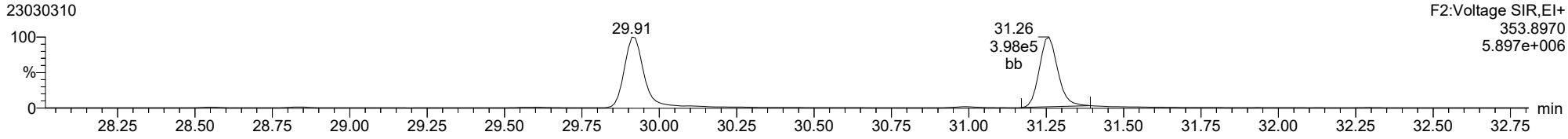

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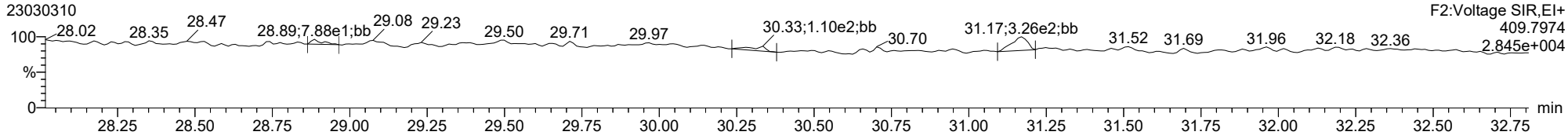

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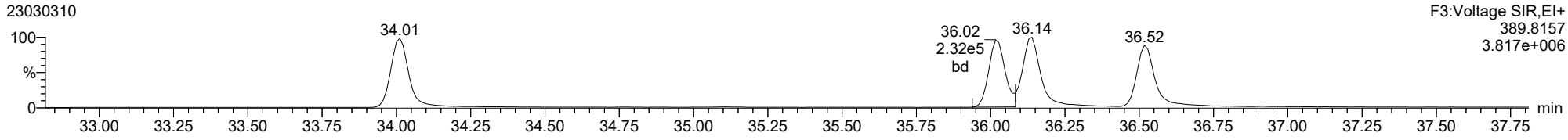

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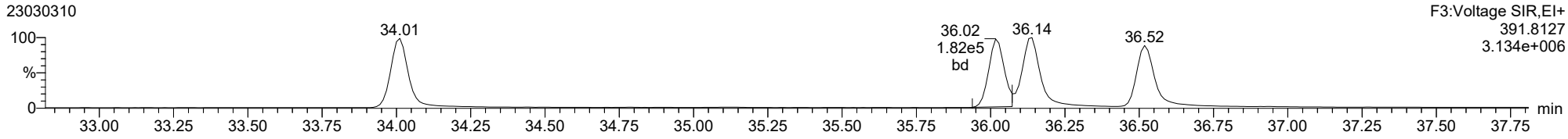

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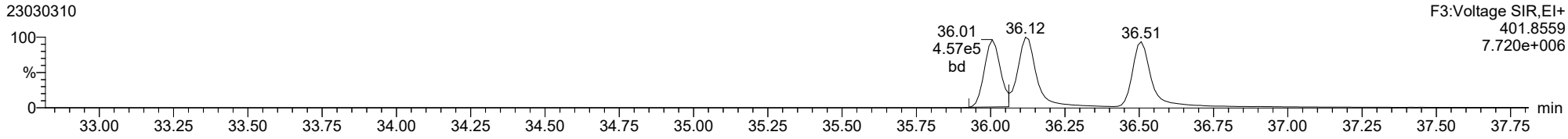

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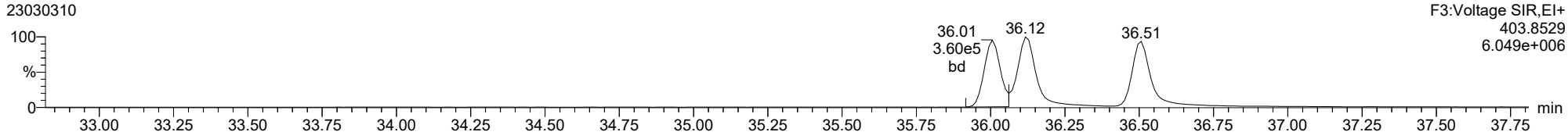

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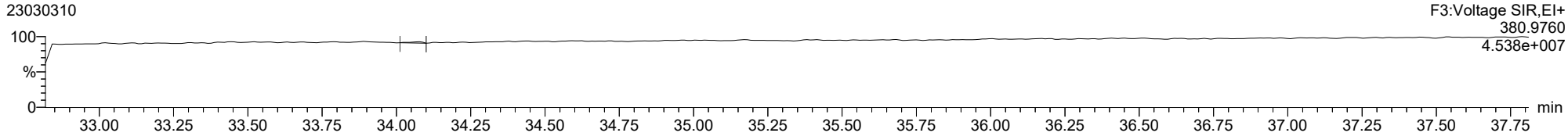

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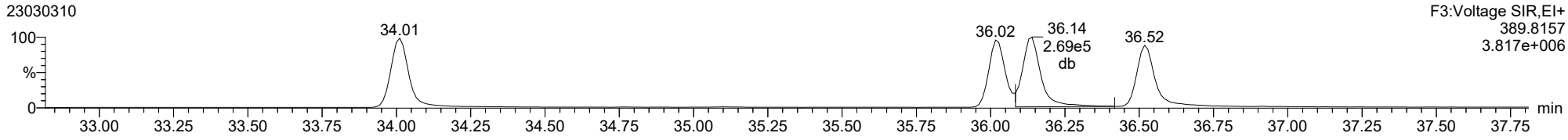

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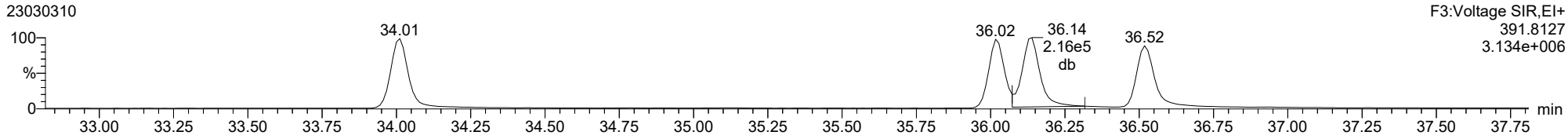

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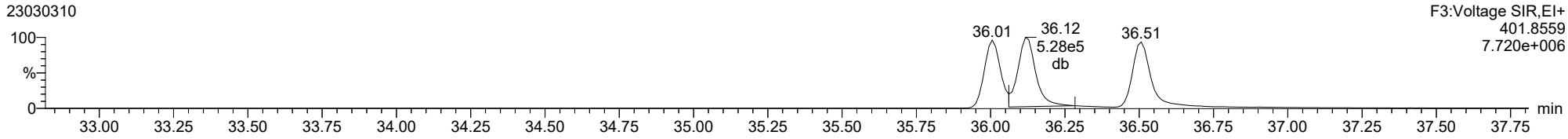

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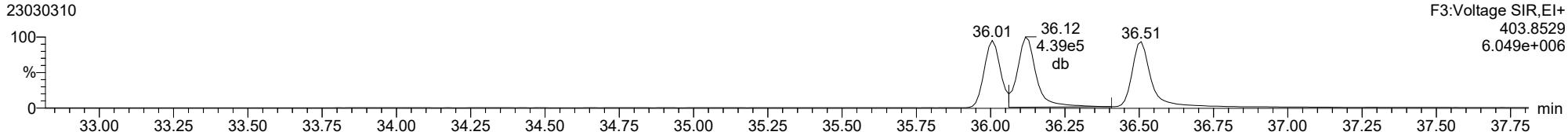

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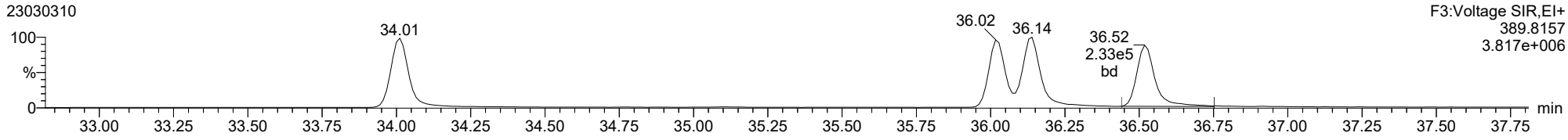

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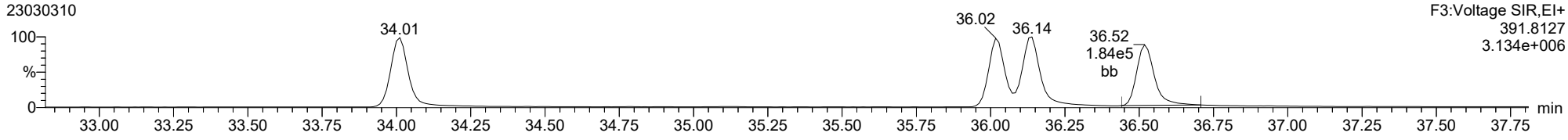

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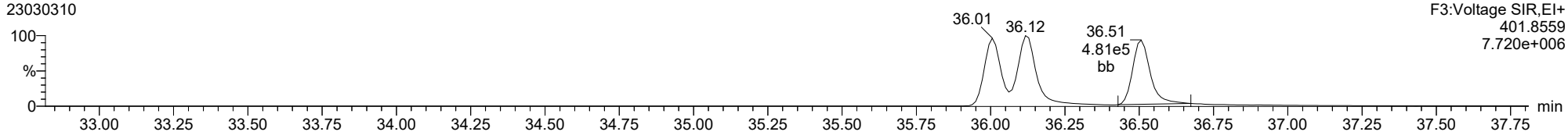

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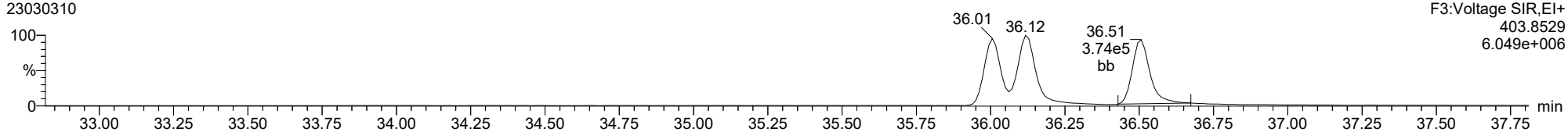

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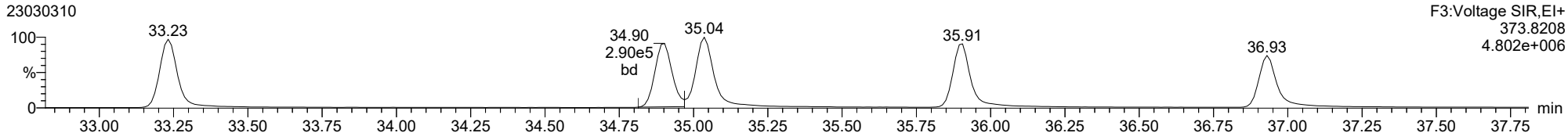

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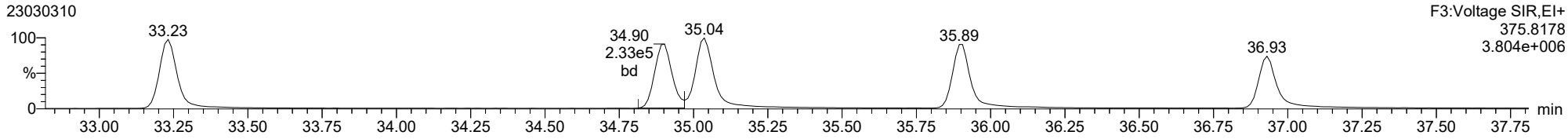

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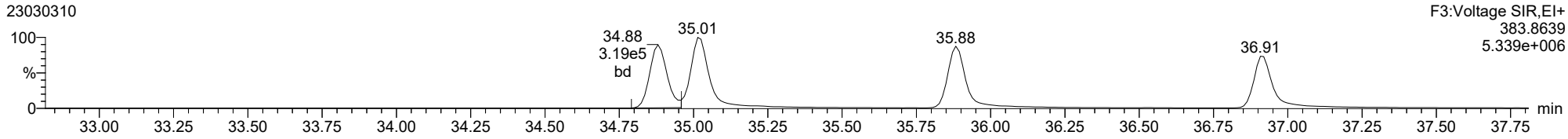

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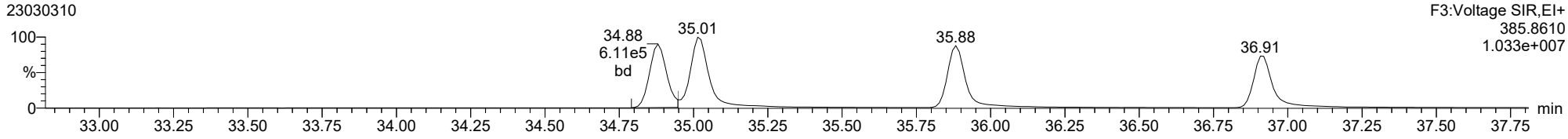

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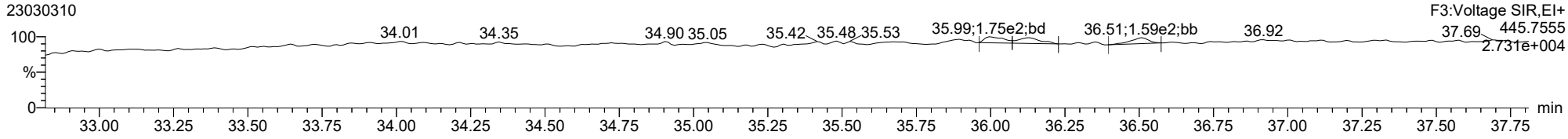

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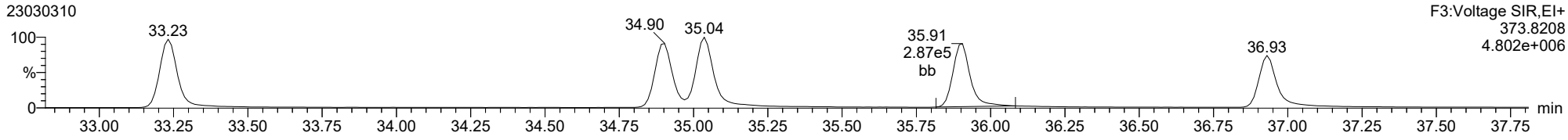
234678-HxCDF



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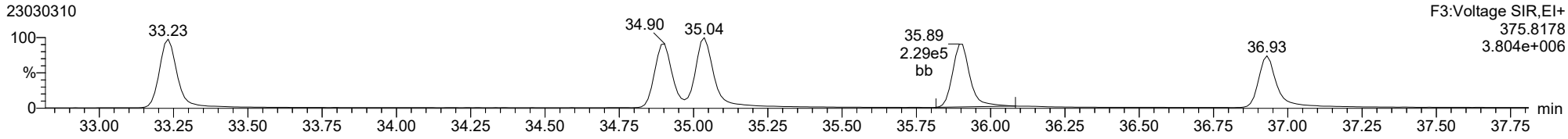

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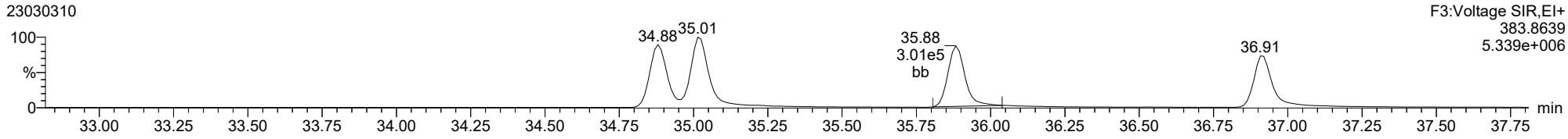

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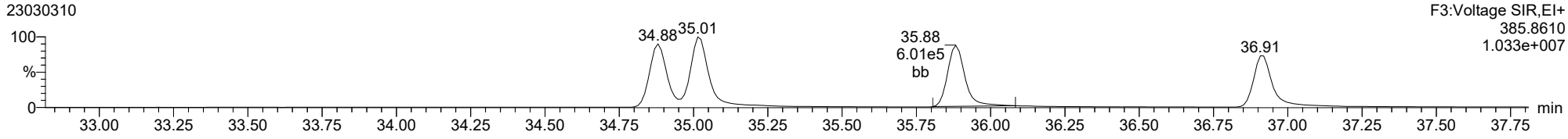
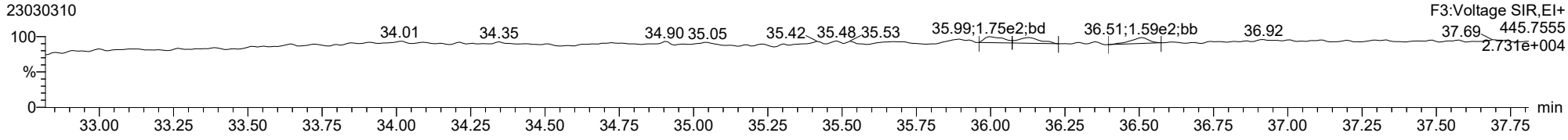


FUNCTION3 OCDPE



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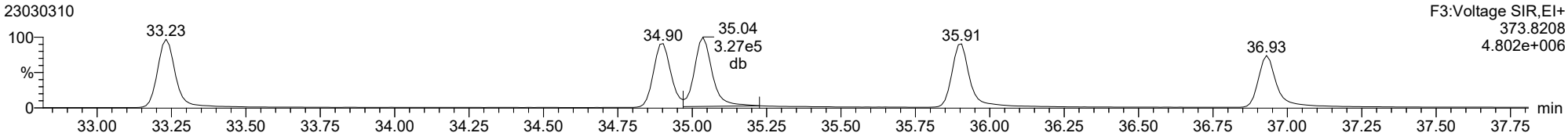

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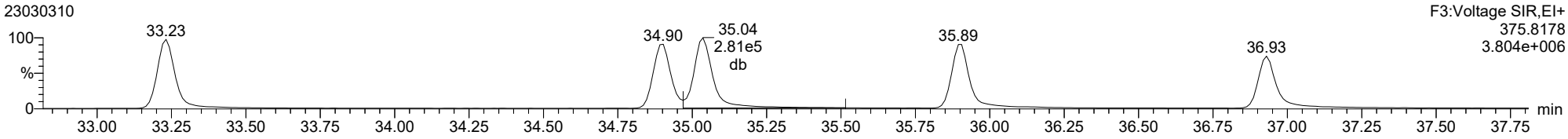

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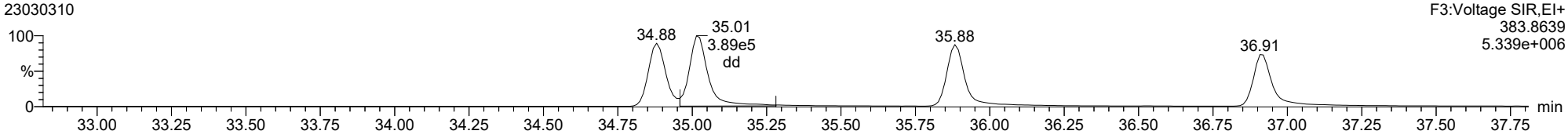

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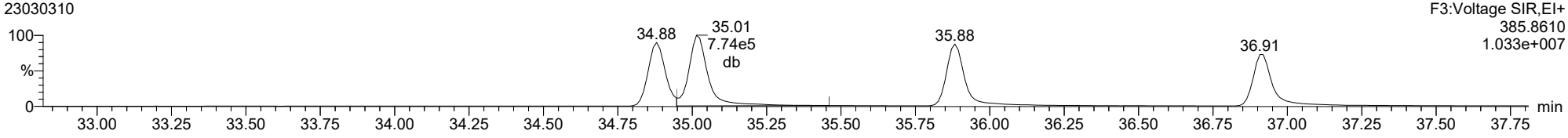
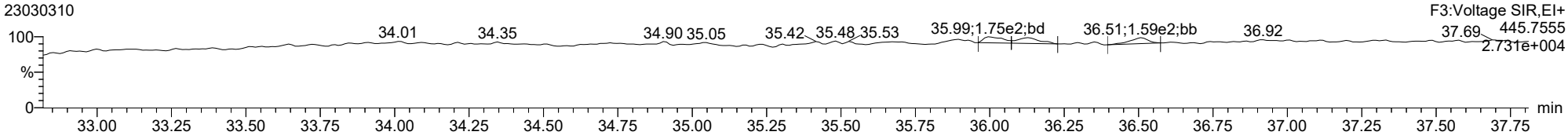


FUNCTION3 OCDPE



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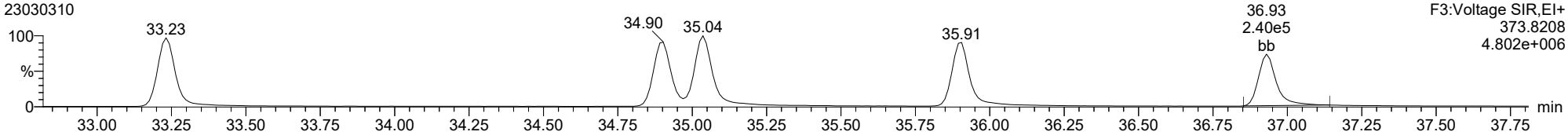

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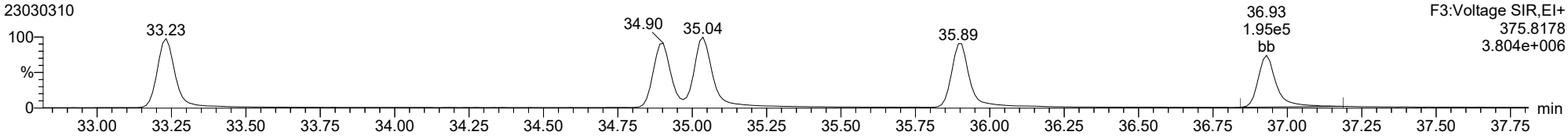

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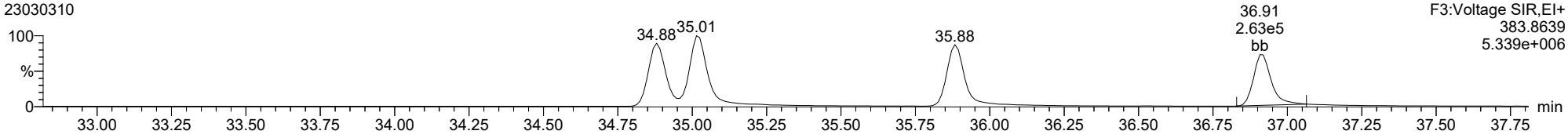

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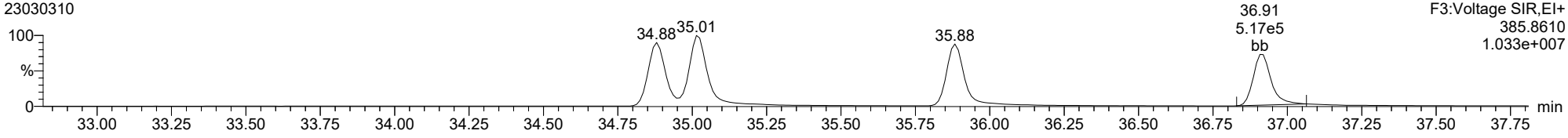

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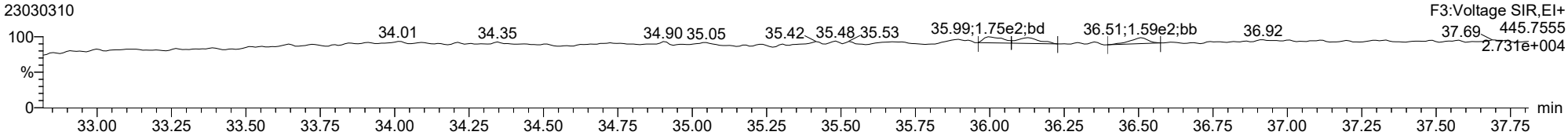

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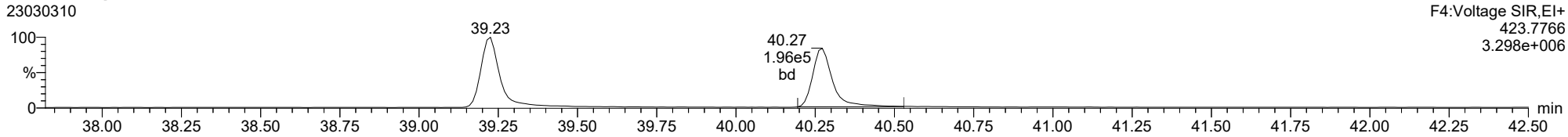

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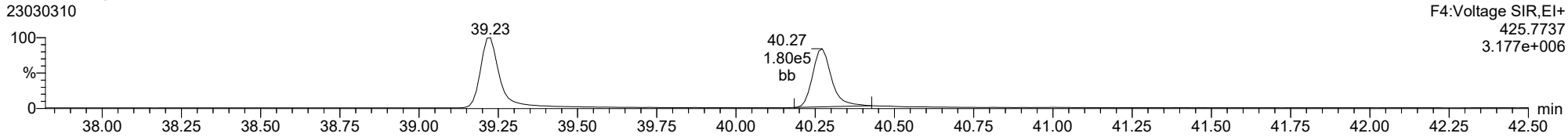

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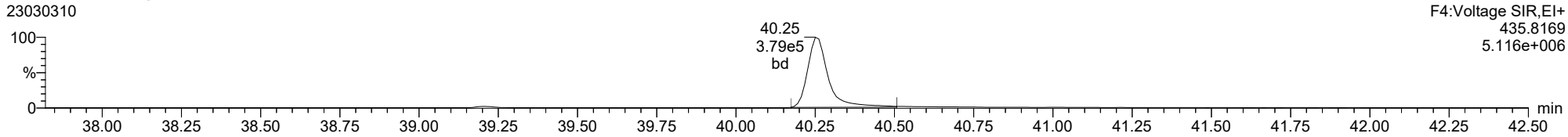

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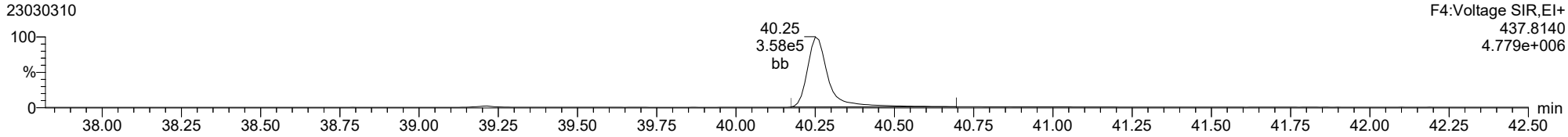

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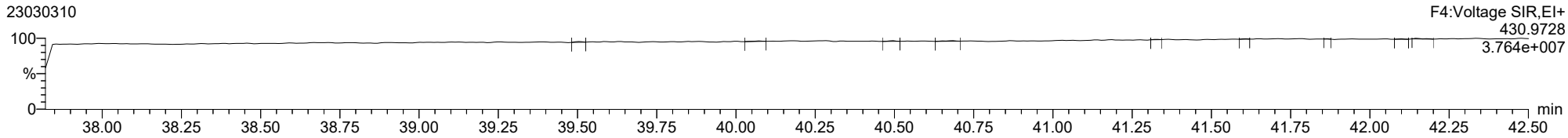

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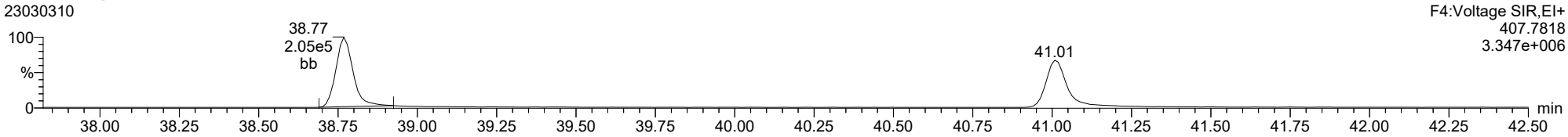

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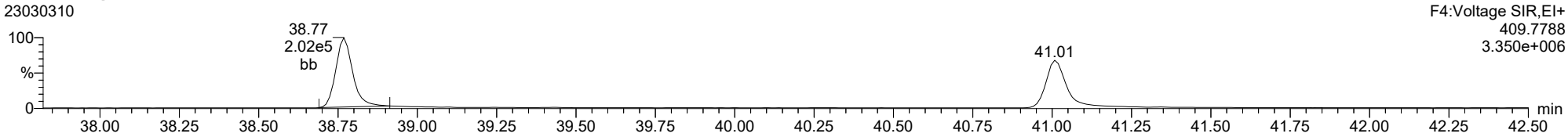

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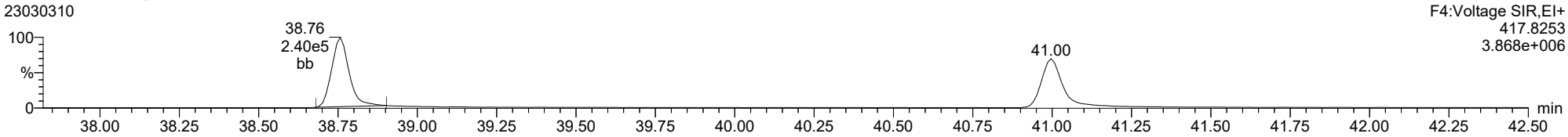

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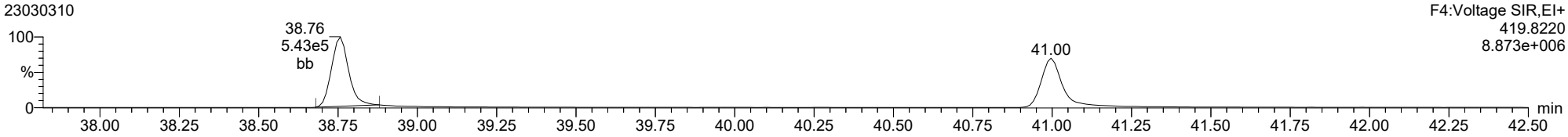
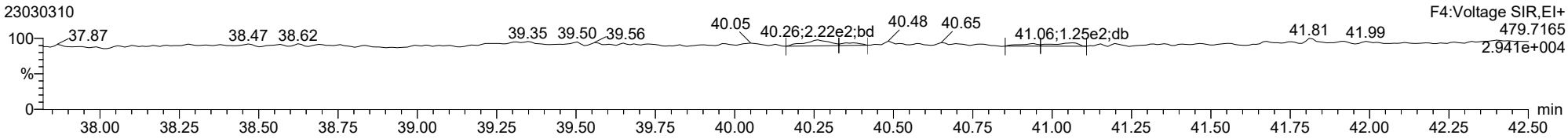


FUNCTION4 NCDPE



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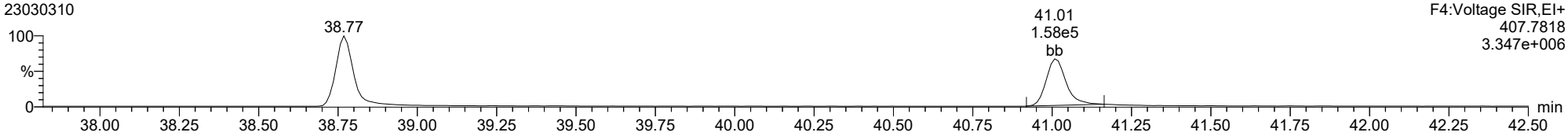

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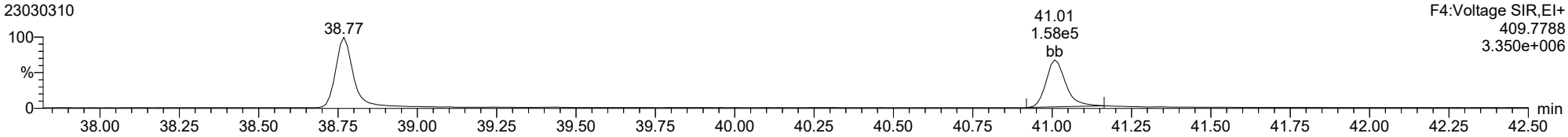

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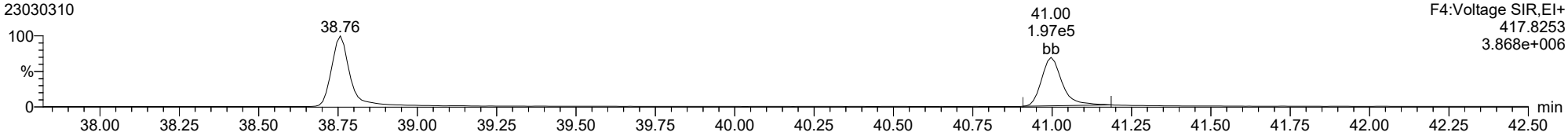

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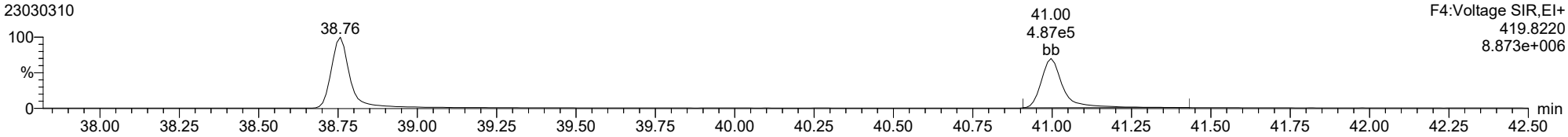
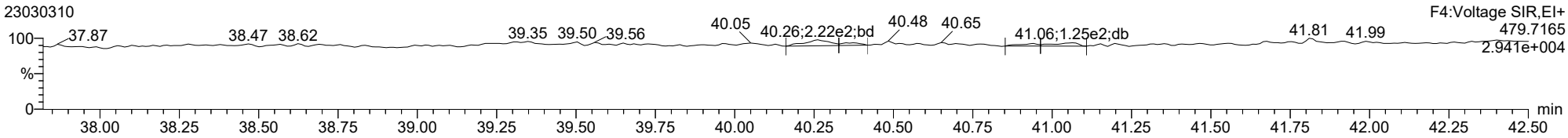


FUNCTION4 NCDPE



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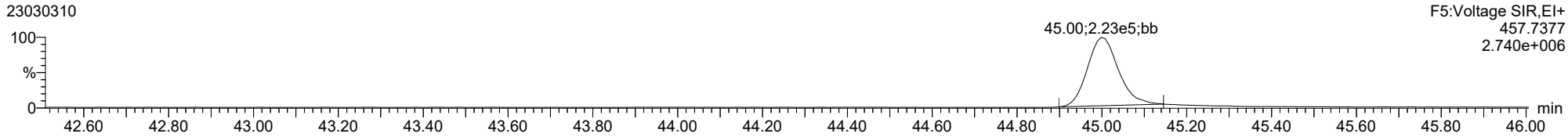

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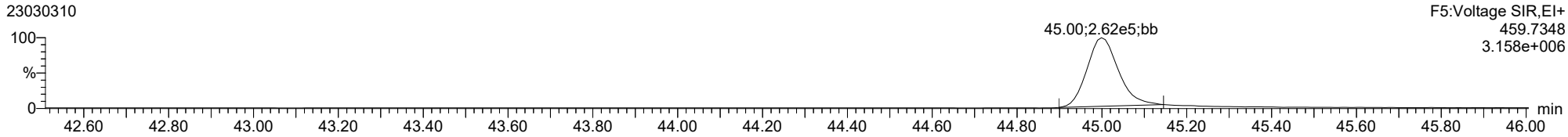

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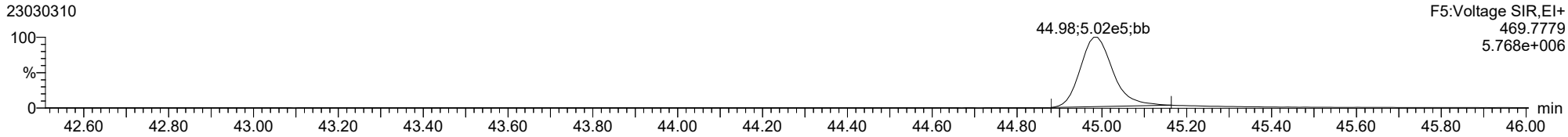

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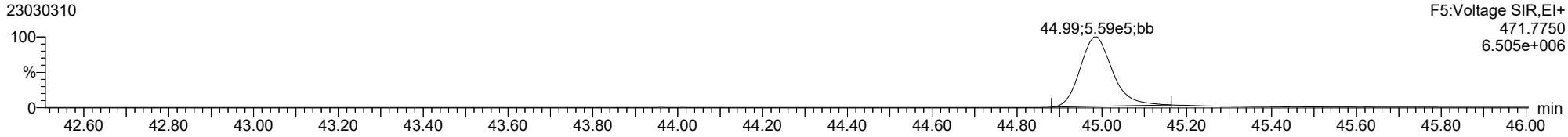

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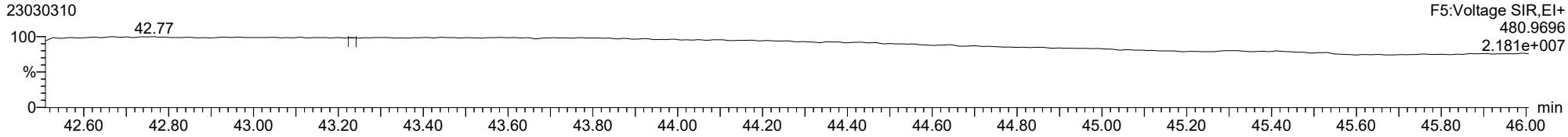

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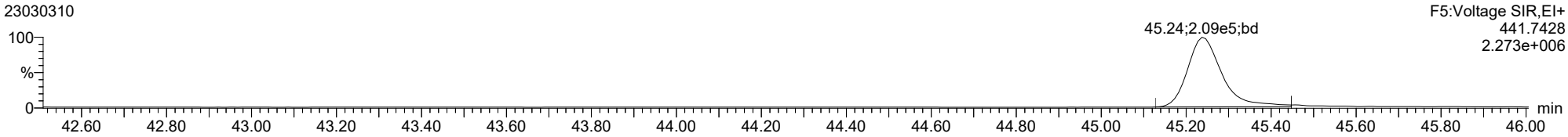

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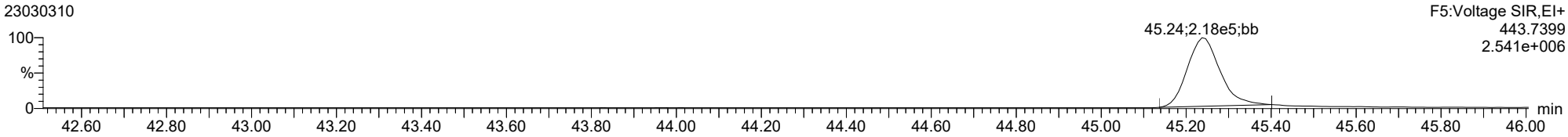
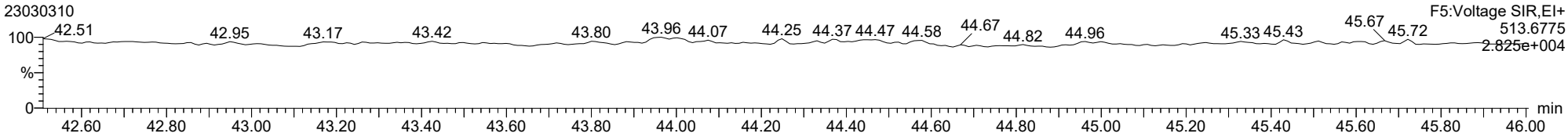


FUNCTION5 DCDPE



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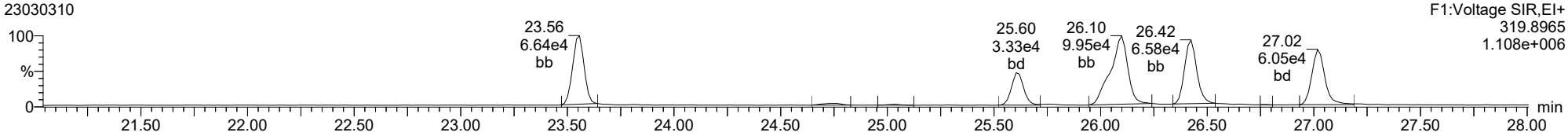
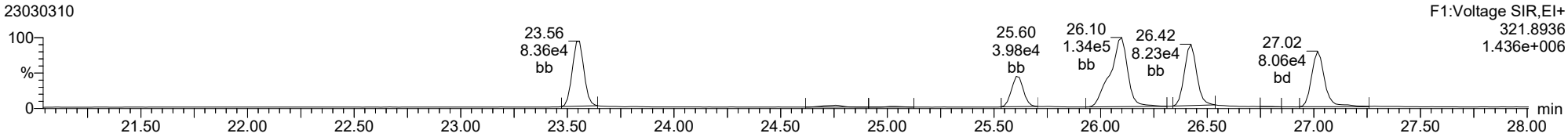
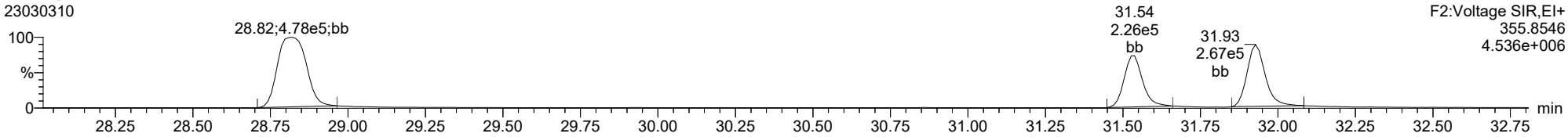
Total-tetradioxins



Total-tetradioxins



Total-pentadioxins



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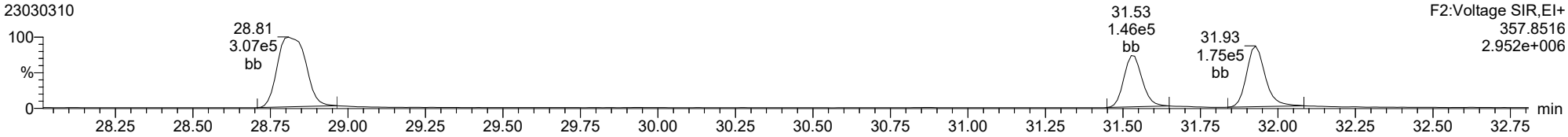

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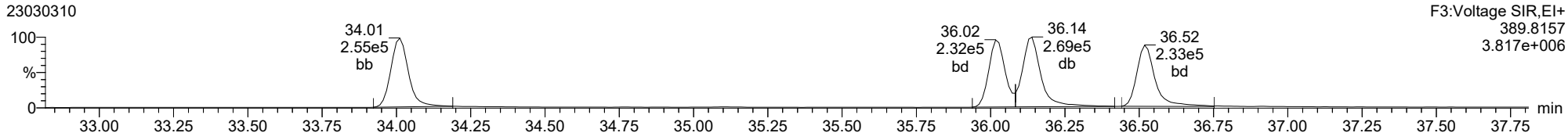

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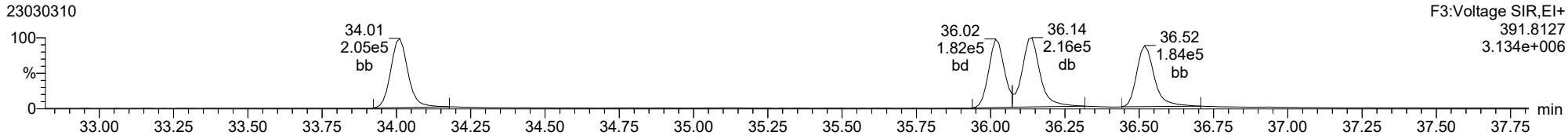

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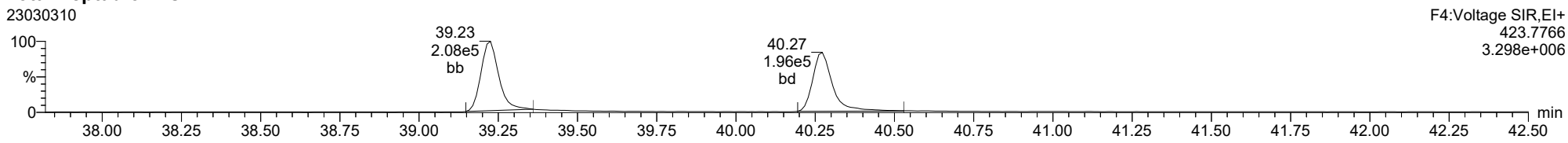
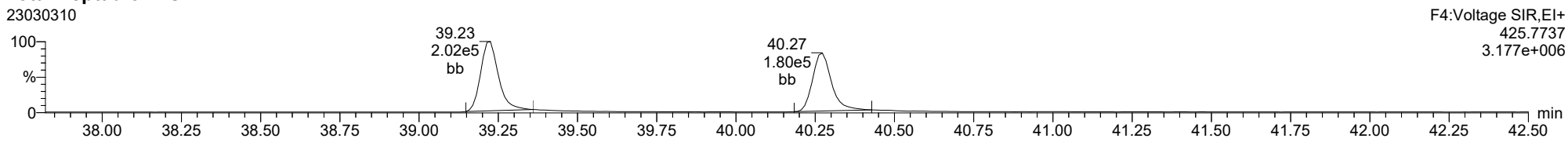


Total-heptadioxins



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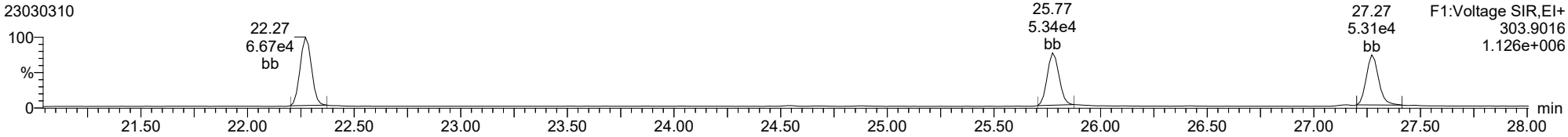
Total-tetrafurans



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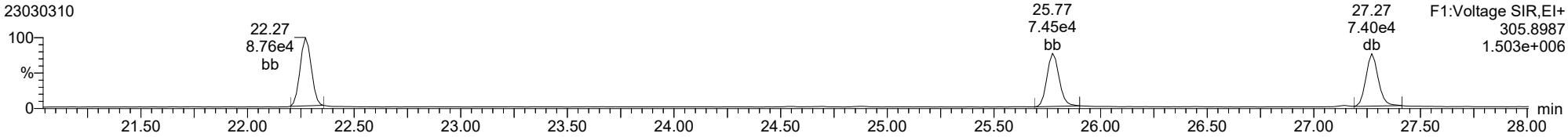

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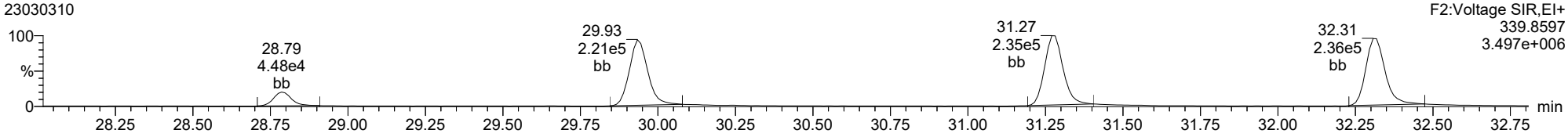

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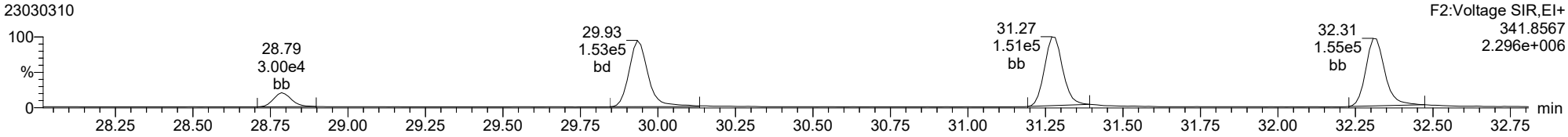

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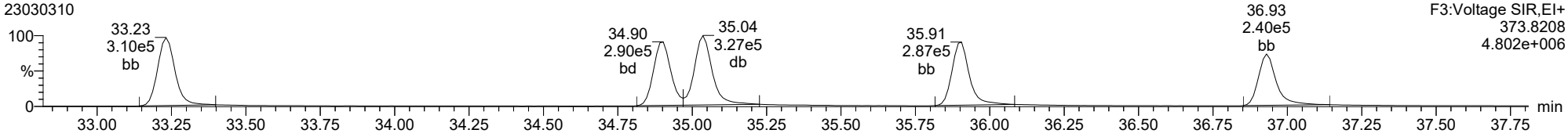
Total-hexafurans



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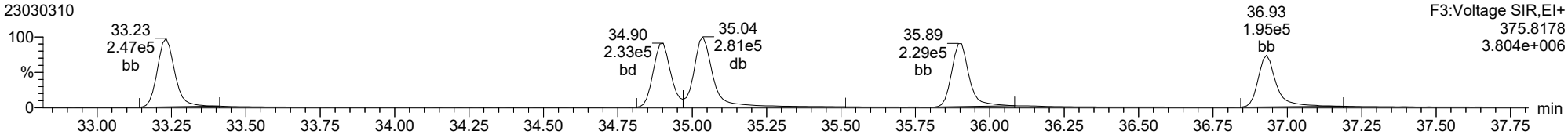

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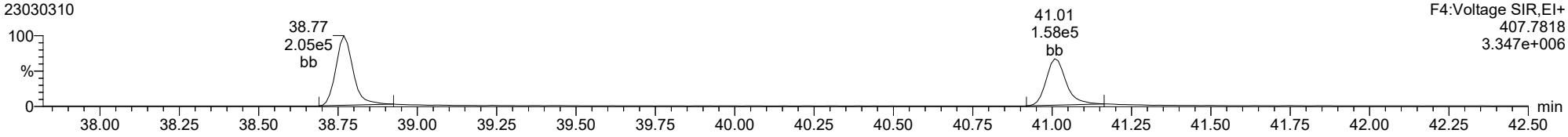
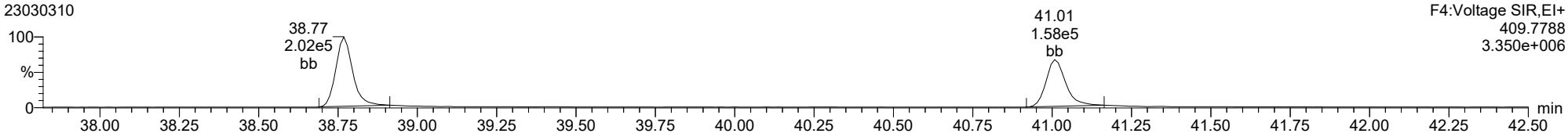


Total-heptafurans



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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	4.131e4	5.488e4	0.702	0.753	0.770	1493	2220	6.02e5	8.13e5	403.0	366.2	NO	bb	bb	10.126
12378-PeCDF	29.934	1.000	2.094e5	1.387e5	0.679	1.510	1.550	3237	2768	3.10e6	2.08e6	956.2	750.8	NO	bb	bb	47.721
23478-PeCDF	31.282	1.001	2.189e5	1.466e5	0.786	1.493	1.550	3237	2768	3.25e6	2.13e6	1004.6	769.0	NO	bb	bb	48.580
123478-HxCDF	34.903	1.001	2.702e5	2.168e5	1.166	1.247	1.240	2948	2161	4.14e6	3.34e6	1404.3	1544.7	NO	bd	bd	47.304
234678-HxCDF	35.905	1.001	2.808e5	2.345e5	1.140	1.198	1.240	2948	2161	4.05e6	3.23e6	1375.6	1495.3	NO	bb	bd	52.050
123678-HxCDF	35.036	1.000	3.125e5	2.496e5	1.091	1.252	1.240	2948	2161	4.44e6	3.55e6	1506.3	1641.4	NO	db	db	51.387
123789-HxCDF	36.931	1.000	2.304e5	1.857e5	1.137	1.240	1.240	2948	2161	3.37e6	2.68e6	1143.7	1240.6	NO	bb	bb	48.904
1234678-HpCDF	38.769	1.000	1.725e5	1.737e5	1.003	0.993	1.050	2044	2260	2.71e6	2.74e6	1326.3	1210.9	NO	bb	bb	47.690
1234789-HpCDF	41.008	1.000	1.395e5	1.236e5	0.953	1.128	1.050	2044	2260	1.71e6	1.64e6	836.3	725.6	NO	bd	bb	53.601
OCDF	45.237	1.005	1.863e5	1.970e5	0.778	0.946	0.890	1162	1746	2.03e6	2.27e6	1745.6	1302.8	NO	bd	bb	95.021
2378-TCDD	26.424	1.001	4.111e4	5.488e4	1.149	0.749	0.770	1210	797	6.31e5	8.06e5	521.2	1010.5	NO	bb	bb	9.017
12378-PeCDD	31.538	1.001	2.212e5	1.442e5	1.022	1.534	1.550	2794	1649	3.14e6	2.05e6	1124.1	1244.9	NO	bb	bb	50.849
123478-HxCDD	36.017	1.000	2.147e5	1.744e5	0.996	1.231	1.240	3133	1871	3.31e6	2.68e6	1055.8	1434.4	NO	bd	bd	50.696
123678-HxCDD	36.139	1.001	2.532e5	2.091e5	1.001	1.211	1.240	3133	1871	3.49e6	2.85e6	1112.6	1520.4	NO	db	db	51.126
123789-HxCDD	36.518	1.011	2.114e5	1.814e5	0.907	1.166	1.240	3133	1871	3.08e6	2.54e6	982.1	1355.5	NO	bb	bd	51.723
1234678-HpCDD	40.273	1.000	1.700e5	1.663e5	1.039	1.022	1.050	1948	2105	2.22e6	2.15e6	1138.4	1022.1	NO	bd	bd	52.721
OCDD	45.000	1.000	2.152e5	2.483e5	0.920	0.867	0.890	885	1554	2.46e6	2.84e6	2785.0	1828.9	NO	bb	bb	97.150
13C-2378-TCDF	25.760	1.007	5.853e5	7.688e5	1.620	0.761	0.770	1921	2018	8.54e6	1.13e7	4445.5	5599.2	NO	bb	bb	89.420
13C-12378-PeCDF	29.923	1.169	6.466e5	4.272e5	1.240	1.513	1.550	2442	3390	8.85e6	5.90e6	3622.7	1739.1	NO	bb	bd	92.612
13C-23478-PeCDF	31.259	1.222	5.702e5	3.869e5	1.118	1.474	1.550	2442	3390	8.42e6	5.62e6	3447.3	1659.1	NO	bb	bb	91.616
13C-123478-HxCDF	34.881	0.955	2.992e5	5.837e5	1.168	0.513	0.510	2430	2952	4.46e6	8.67e6	1835.4	2935.2	NO	bd	bd	95.179
13C-123678-HxCDF	35.025	0.959	3.347e5	6.682e5	1.386	0.501	0.510	2430	2952	4.76e6	9.19e6	1958.9	3111.9	NO	db	db	91.102
13C-234678-HxCDF	35.883	0.983	2.956e5	5.730e5	1.129	0.516	0.510	2430	2952	4.27e6	8.35e6	1756.5	2829.2	NO	bb	bb	96.885
13C-123789-HxCDF	36.919	1.011	2.519e5	4.965e5	0.932	0.507	0.510	2430	2952	3.69e6	7.15e6	1518.9	2421.6	NO	bb	bb	101.167
13C-1234678-HpCDF	38.758	1.062	2.307e5	4.931e5	0.895	0.468	0.440	2487	3339	3.35e6	7.56e6	1347.2	2263.7	NO	bd	bb	101.839
13C-1234789-HpCDF	40.997	1.123	1.602e5	3.548e5	0.770	0.452	0.440	2487	3339	2.05e6	4.72e6	823.7	1413.6	NO	bb	bb	84.268
13C-1234-TCDD	25.591	0.000	4.152e5	5.195e5	1.000	0.799	0.770	2224	1360	6.53e6	8.14e6	2938.6	5984.1	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	4.083e5	5.184e5	1.152	0.788	0.770	2224	1360	5.76e6	7.36e6	2588.5	5411.0	NO	bb	bb	86.032
13C-12378-PeCDD	31.516	1.232	4.323e5	2.709e5	0.829	1.595	1.550	1217	913	6.32e6	3.99e6	5187.9	4362.9	NO	bb	bb	90.774
13C-123478-HxCDD	36.006	0.986	4.338e5	3.372e5	0.995	1.286	1.240	3851	1371	6.85e6	5.33e6	1778.6	3884.7	NO	bd	bd	97.589
13C-123678-HxCDD	36.117	0.989	5.114e5	3.919e5	1.157	1.305	1.240	3851	1371	7.20e6	5.65e6	1870.4	4120.3	NO	db	db	98.370
13C-1234678-HpCDD	40.262	1.103	3.166e5	2.972e5	0.840	1.065	1.050	1699	1520	4.20e6	3.95e6	2473.2	2598.3	NO	bb	bb	92.030
13C-OCDD	44.990	1.232	5.160e5	5.214e5	0.767	0.990	0.890	2001	1870	5.29e6	5.84e6	2645.0	3123.1	NO	bd	bb	170.247
13C-123789-HxCDD	36.507	0.000	4.452e5	3.487e5	1.000	1.277	1.240	3851	1371	6.49e6	5.07e6	1686.5	3694.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	9.071e4		1.288			1721		1.34e6		776.4			bb		7.536

Dataset: T:\Autospec\Processed Data Batch\230303IHICV.qld
Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	5.764e4	7.805e4	0.802	0.738	0.770	1493	2220	9.22e5	1.25e6	617.6	564.2	NO	bb	bb	12.503
1289-TCDF	27.272	1.059	3.446e4	4.665e4	0.678	0.739	0.770	1493	2220	5.07e5	6.62e5	339.5	298.3	NO	bb	db	8.835
13468-PECDF	27.130	0.907	3.611e5	2.330e5	1.246	1.550	1.550	743	1090	5.44e6	3.55e6	7323.2	3255.0	NO	bb	bb	44.390
12389-PECDF	32.318	1.080	2.101e5	1.516e5	0.496	1.387	1.550	3237	2768	2.95e6	1.97e6	910.6	713.0	NO	bb	bd	67.866
123468-HXCDF	33.231	0.953	2.880e5	2.384e5	1.169	1.208	1.240	2948	2161	4.12e6	3.25e6	1397.4	1503.0	NO	bb	bb	51.002
1368-TCDD	23.557	0.892	5.668e4	7.180e4	1.015	0.789	0.770	1210	797	9.15e5	1.16e6	755.8	1460.4	NO	bb	bb	13.654
1289-TCDD	27.017	1.023	3.648e4	4.783e4	0.909	0.763	0.770	1210	797	5.40e5	6.90e5	445.8	865.4	NO	bb	bb	10.012
12479-PECDD	28.819	0.914	3.593e5	2.367e5	2.301	1.518	1.550	2794	1649	3.42e6	2.21e6	1224.5	1341.7	NO	bb	bb	36.832
12389-PECDD	31.928	1.013	2.423e5	1.700e5	1.184	1.426	1.550	2794	1649	3.48e6	2.31e6	1246.0	1399.4	NO	bb	bd	49.543
124679-HXCDD	34.011	0.945	2.330e5	1.909e5	1.115	1.220	1.240	3133	1871	3.38e6	2.76e6	1078.1	1473.6	NO	bb	bb	49.292
1234679-HPCDD	39.225	0.974	2.020e5	1.832e5	1.137	1.103	1.050	1948	2105	2.83e6	2.72e6	1451.0	1293.3	NO	bd	bb	55.196
Total-tetrafurans			1.346e5		0.727			1493		2.05e6							31.724
Total-penta1			3.611e5					743		5.44e6							44.390
Total-pentafurans			6.730e5		0.654			3237		9.80e6							172.856
Total-hexafurans			1.382e6		1.141			2948		2.01e7							250.647
Total-heptafurans			3.120e5		0.978			2044		4.42e6							101.291
Total-Furans			3.049e6		0.922			1493		4.39e7							695.930
Total-tetradioxins			2.249e5		1.024			1210		3.13e6							54.516
Total-pentadioxins			8.229e5		1.502			2794		1.00e7							137.223
Total-hexadioxins			9.123e5		1.005			3133		1.32e7							202.837
Total-heptadioxins			3.720e5		1.088			1948		5.04e6							107.918
Total-Dioxins			2.547e6		1.130			1210		3.39e7							599.643
Total-TEQ			5.596e6					1210		7.78e7							1295.573
FUNCTION1 PFK			7.521e6					557945		8.00e6							
FUNCTION2 PFK			4.110e5					226700		1.13e7							0.000
FUNCTION3 PFK			8.443e6					414812		2.82e6							0.000
FUNCTION4 PFK			2.598e7					304689		2.22e7							
FUNCTION5 PFK			7.163e4					189891		2.74e6							
FUNCTION1 HXCD...			3.794e2					593		5.61e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.042e2					818		1.73e4							0.000
FUNCTION3 OCDPE			9.563e1					429		1.87e3							0.000
FUNCTION4 NCDPE			0.000e0					545		0.00e0							
FUNCTION5 DCDPE			0.000e0					542		0.00e0							

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
2	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
3	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
4	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
2	123468-HXCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
3	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
4	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
5	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
2	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503
6	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
7	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
8	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
9	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688
10	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
11	123468-HXCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
12	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
13	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
14	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387
15	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
16	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690
17	OCDF	45.24	1.863e5	1.970e5	0.778	0.95	0.89	1745.6	YES	NO	bd	bb	95.021
18	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
2	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
3	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
4	Total-tetradioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
5	Total-tetradioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
2	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
3	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
2	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
3	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
4	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
2	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
2	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
3	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
4	Total-tetradioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
5	Total-tetradioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591
6	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
7	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
8	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832
9	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
10	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
11	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
12	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696
13	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
14	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196
15	OCDD	45.00	2.152e5	2.483e5	0.920	0.87	0.89	2785.0	YES	NO	bb	bb	97.150

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Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503
6	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
7	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
8	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
9	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688
10	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
11	123468-HXCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
12	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
13	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
14	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387
15	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
16	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690
17	OCDF	45.24	1.863e5	1.970e5	0.778	0.95	0.89	1745.6	YES	NO	bd	bb	95.021
18	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390
19	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
20	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
21	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
22	Total-tetradioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
23	Total-tetradioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591
24	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
25	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
26	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832
27	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
28	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
29	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
30	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696
31	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
32	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196
33	OCDD	45.00	2.152e5	2.483e5	0.920	0.87	0.89	2785.0	YES	NO	bb	bb	97.150

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.45	3.397e6					9.1	YES		db		
2	FUNCTION1 PFK	22.00	4.124e6					5.2	YES		bd		

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.25	2.674e4					2.5	NO		db		0.000
2	FUNCTION2 PFK	28.20	5.558e3					1.1	NO		dd		0.000
3	FUNCTION2 PFK	28.15	1.333e4					1.7	NO		bd		0.000
4	FUNCTION2 PFK	28.11	4.408e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	30.52	5.287e3					0.9	NO		bd		0.000
6	FUNCTION2 PFK	30.38	1.568e4					1.4	NO		bb		0.000
7	FUNCTION2 PFK	30.23	2.380e4					1.5	NO		db		0.000
8	FUNCTION2 PFK	30.10	2.694e4					1.7	NO		bd		0.000
9	FUNCTION2 PFK	29.99	2.076e3					0.5	NO		bb		0.000
10	FUNCTION2 PFK	29.89	7.421e3					1.2	NO		bb		0.000
11	FUNCTION2 PFK	29.80	6.022e3					0.5	NO		bb		0.000
12	FUNCTION2 PFK	29.62	1.101e4					1.2	NO		bb		0.000
13	FUNCTION2 PFK	29.52	2.200e4					2.0	NO		bb		0.000
14	FUNCTION2 PFK	29.42	7.036e3					1.0	NO		bb		0.000
15	FUNCTION2 PFK	29.29	2.309e4					2.2	NO		bb		0.000
16	FUNCTION2 PFK	29.03	1.036e4					1.7	NO		db		0.000
17	FUNCTION2 PFK	29.00	8.382e3					1.3	NO		bd		0.000
18	FUNCTION2 PFK	28.80	5.680e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	28.70	1.413e4					1.3	NO		bb		0.000
20	FUNCTION2 PFK	28.60	2.690e3					0.7	NO		bb		0.000
21	FUNCTION2 PFK	32.35	9.362e3					1.3	NO		bd		0.000
22	FUNCTION2 PFK	32.28	5.282e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.94	5.478e3					0.6	NO		bb		0.000
24	FUNCTION2 PFK	31.86	9.539e3					1.3	NO		bb		0.000
25	FUNCTION2 PFK	31.70	8.598e3					0.9	NO		bb		0.000
26	FUNCTION2 PFK	31.56	1.164e4					1.5	NO		bb		0.000
27	FUNCTION2 PFK	31.44	9.870e3					1.2	NO		bb		0.000
28	FUNCTION2 PFK	31.37	5.651e3					1.2	NO		bb		0.000
29	FUNCTION2 PFK	31.16	3.906e3					0.7	NO		db		0.000
30	FUNCTION2 PFK	31.10	5.259e3					1.0	NO		bd		0.000
31	FUNCTION2 PFK	31.00	2.220e3					0.5	NO		bb		0.000
32	FUNCTION2 PFK	30.93	4.197e3					0.6	NO		bb		0.000
33	FUNCTION2 PFK	30.84	1.813e4					1.7	NO		bb		0.000
34	FUNCTION2 PFK	30.68	6.046e3					1.3	NO		db		0.000
35	FUNCTION2 PFK	30.64	6.706e3					1.2	NO		dd		0.000
36	FUNCTION2 PFK	30.58	1.475e4					1.4	NO		dd		0.000
37	FUNCTION2 PFK	32.74	9.704e3					1.1	NO		bb		0.000

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.61	1.975e3					0.6	NO		bb		0.000
39	FUNCTION2 PFK	32.55	1.171e3					0.5	NO		bb		0.000
40	FUNCTION2 PFK	32.51	7.325e3					1.0	NO		db		0.000
41	FUNCTION2 PFK	32.45	9.340e3					1.3	NO		dd		0.000
42	FUNCTION2 PFK	32.41	1.322e4					1.9	NO		dd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.70	5.175e4					1.9	NO		bb		0.000
2	FUNCTION3 PFK	35.52	3.681e5					3.3	YES		bb		0.000
3	FUNCTION3 PFK	34.42	8.023e6					1.5	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.67	5.668e6					23.1	YES		db		
2	FUNCTION4 PFK	39.84	1.814e7					26.9	YES		dd		
3	FUNCTION4 PFK	38.09	2.173e6					22.8	YES		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.82	4.953e3					1.4	NO		bb		
2	FUNCTION5 PFK	45.79	4.078e3					1.3	NO		db		
3	FUNCTION5 PFK	45.76	2.296e3					0.8	NO		bd		
4	FUNCTION5 PFK	45.37	1.499e4					1.8	NO		bb		
5	FUNCTION5 PFK	45.31	3.040e3					1.0	NO		bb		
6	FUNCTION5 PFK	44.94	1.866e3					0.7	NO		bb		
7	FUNCTION5 PFK	44.62	4.342e3					1.3	NO		bb		
8	FUNCTION5 PFK	43.85	4.909e3					1.2	NO		bb		
9	FUNCTION5 PFK	43.55	9.698e3					1.7	NO		bb		
10	FUNCTION5 PFK	43.31	1.818e4					2.2	NO		bb		
11	FUNCTION5 PFK	43.18	3.274e3					1.0	NO		bb		

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.14	7.703e1					2.6	NO		bb		0.000
2	FUNCTION1 HXCD...	25.58	1.369e2					3.0	NO		bb		0.000
3	FUNCTION1 HXCD...	24.29	7.654e1					1.4	NO		bb		0.000
4	FUNCTION1 HXCD...	23.49	8.895e1					2.4	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.41	1.026e2					2.4	NO		db		0.000
2	FUNCTION2 HPCD...	32.32	1.299e2					2.2	NO		bd		0.000
3	FUNCTION2 HPCD...	31.19	1.035e2					3.9	YES		db		0.000
4	FUNCTION2 HPCD...	31.15	2.274e2					6.9	YES		bd		0.000
5	FUNCTION2 HPCD...	29.21	1.504e2					2.9	NO		bb		0.000
6	FUNCTION2 HPCD...	28.77	9.035e1					2.8	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	9.563e1					4.4	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

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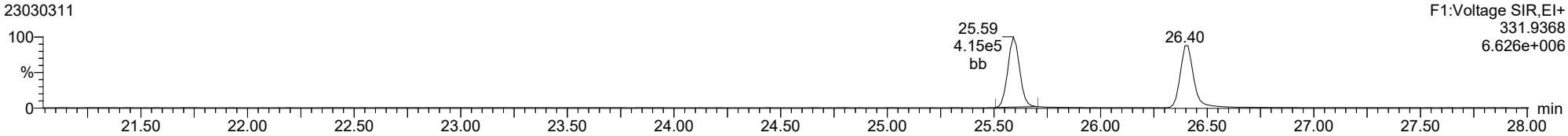

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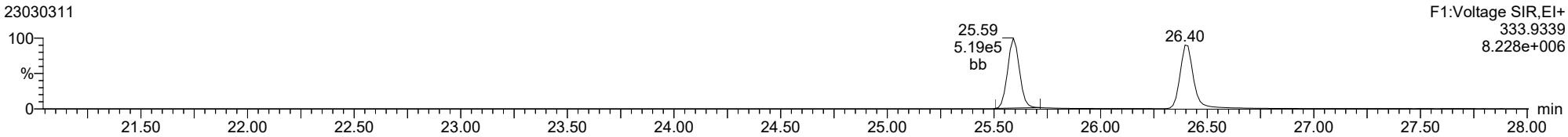

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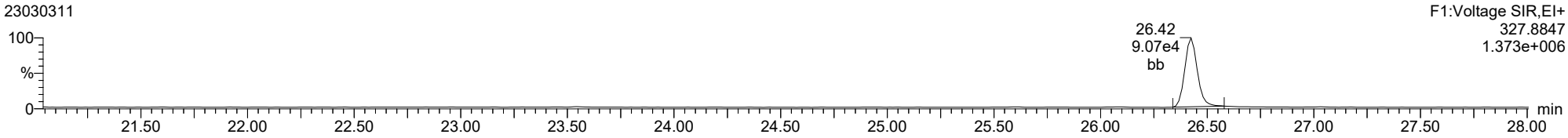

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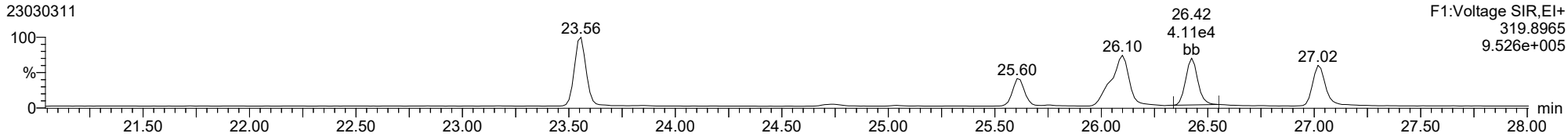

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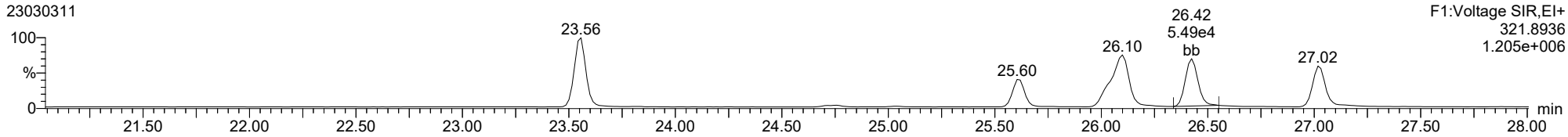

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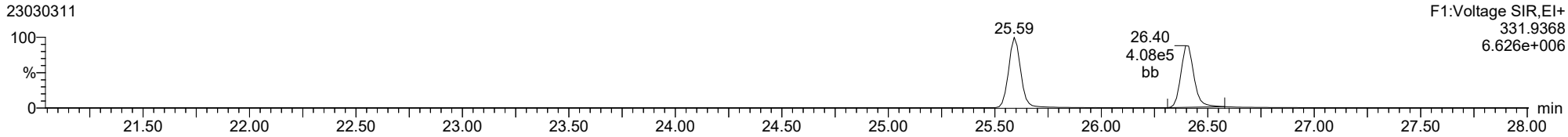

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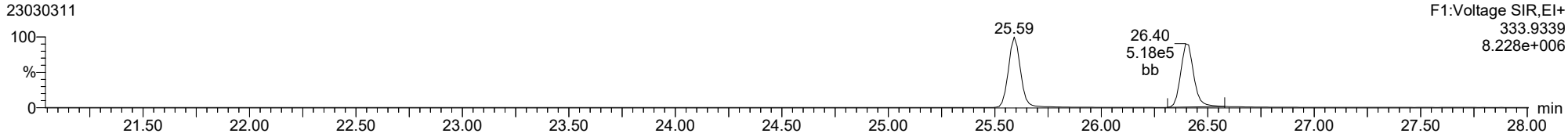

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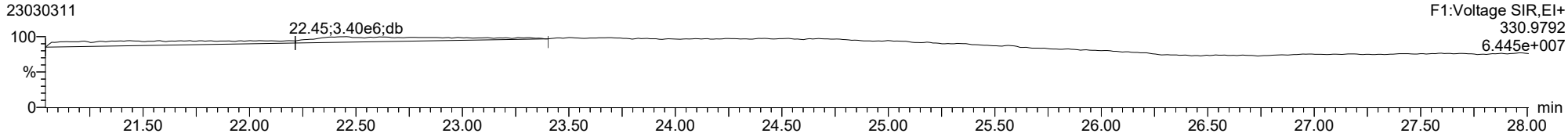

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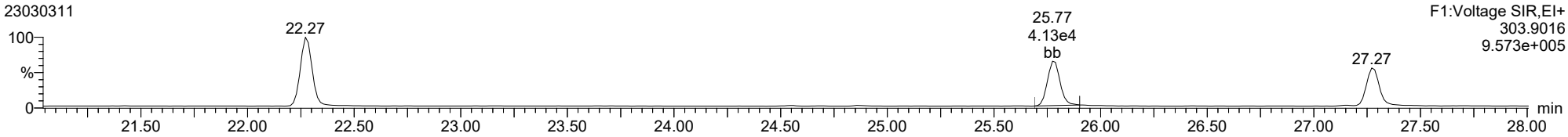

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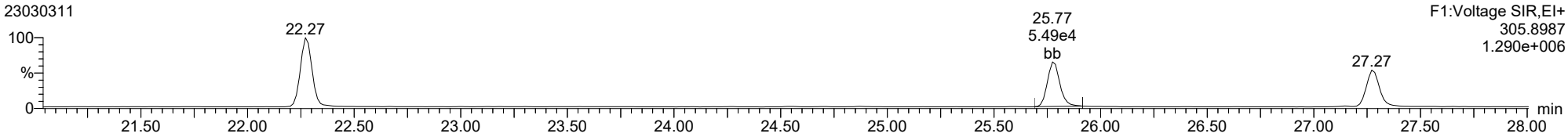

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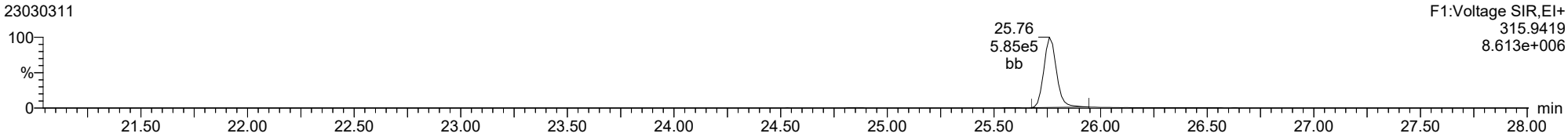

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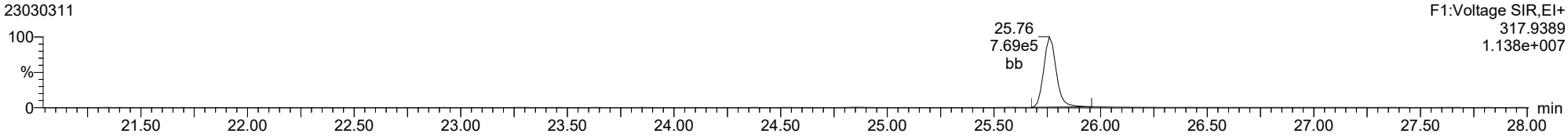

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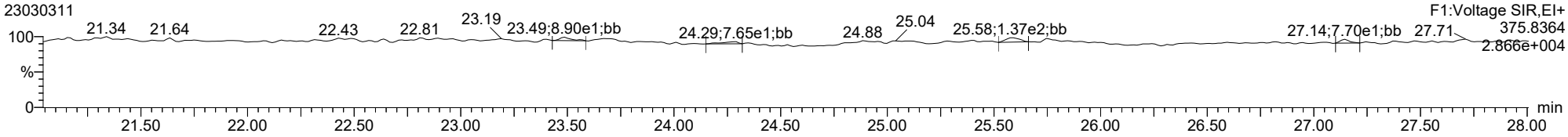

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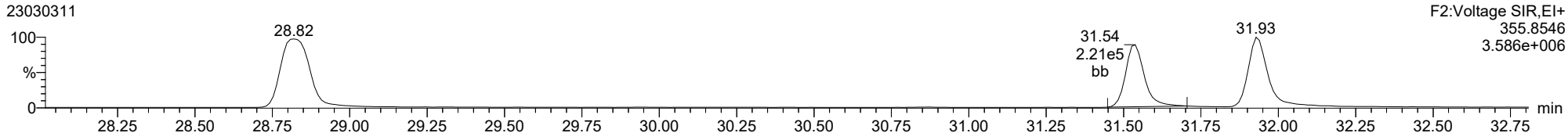
12378-PeCDD



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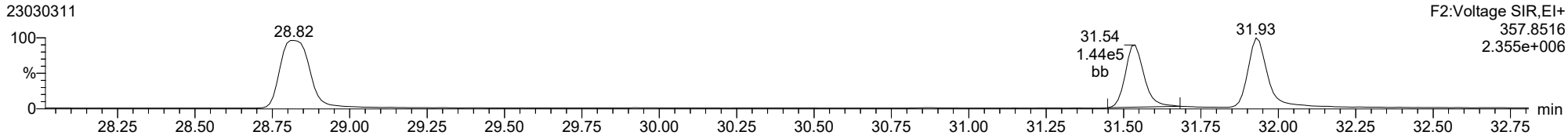

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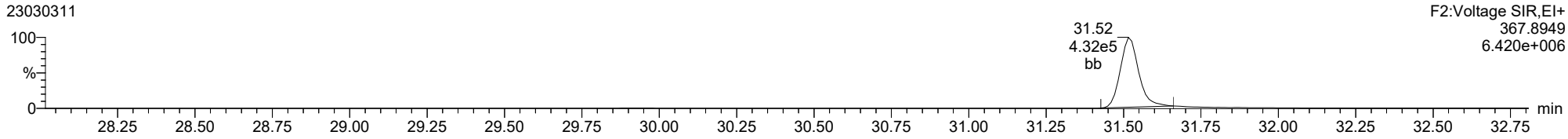

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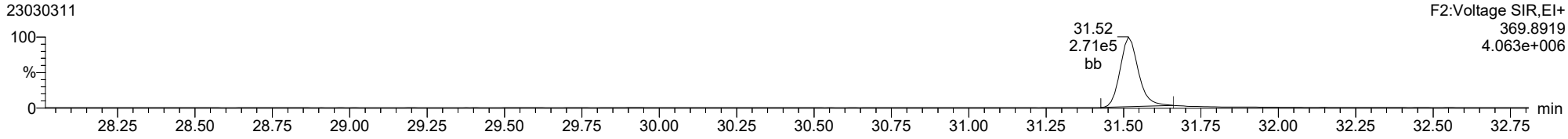

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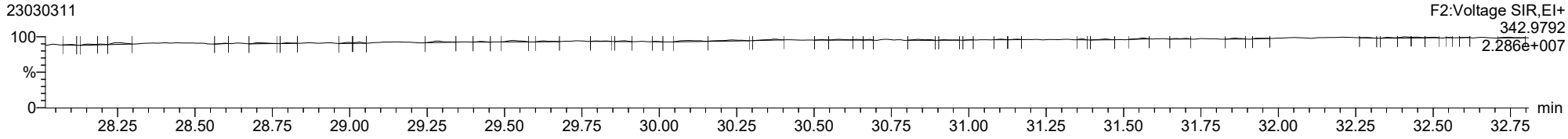

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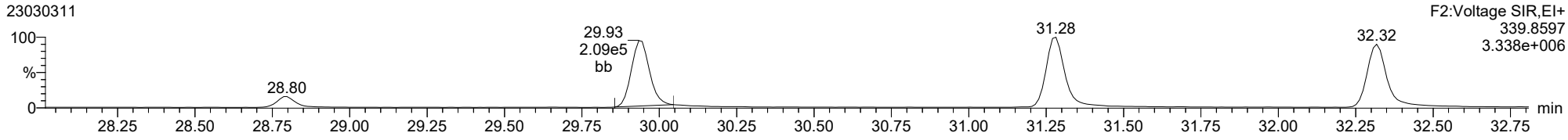

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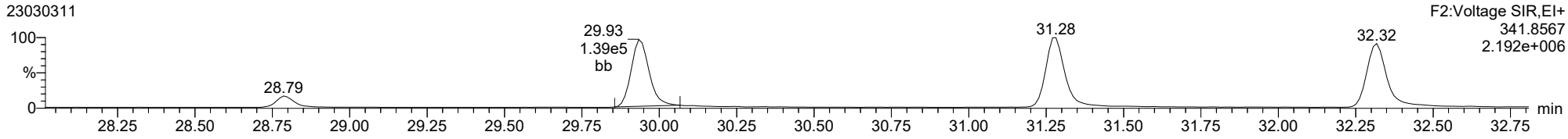

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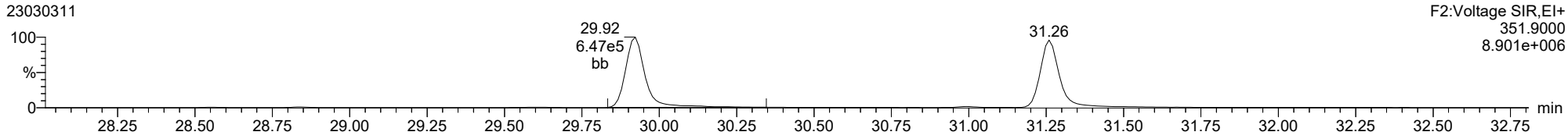

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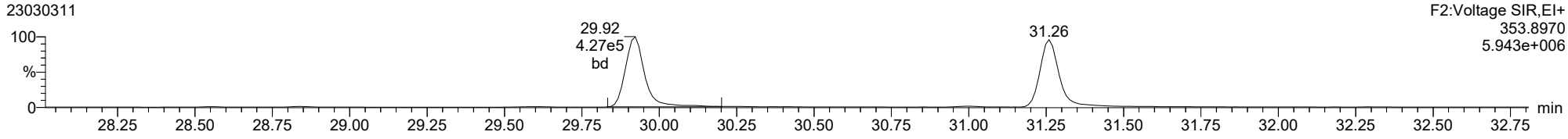

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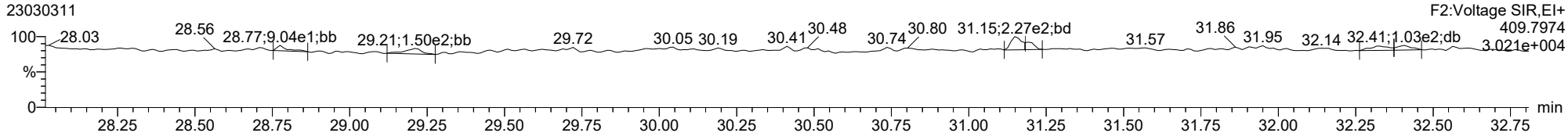

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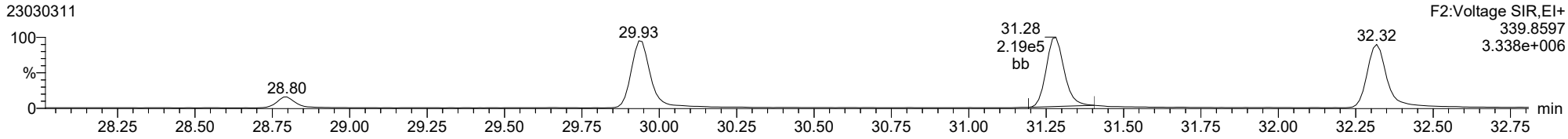

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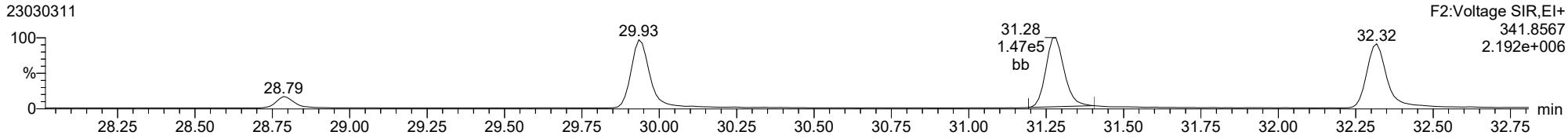

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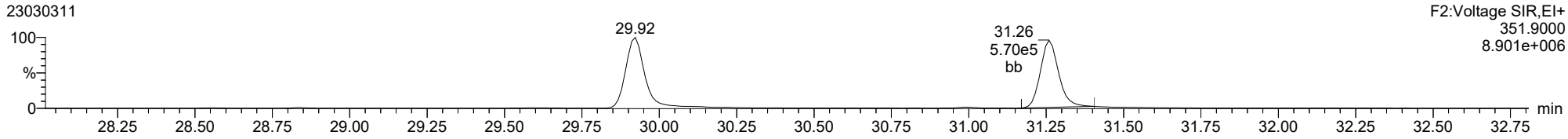

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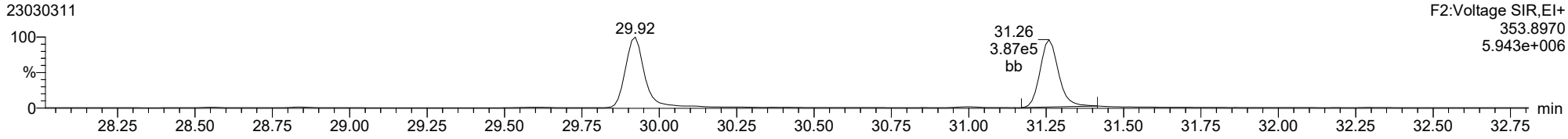

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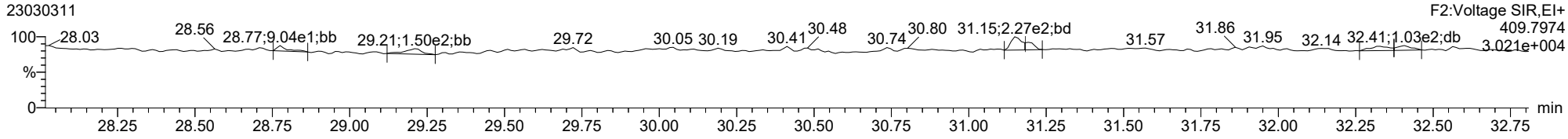

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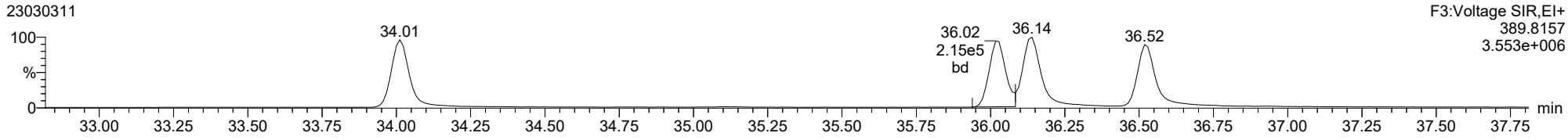

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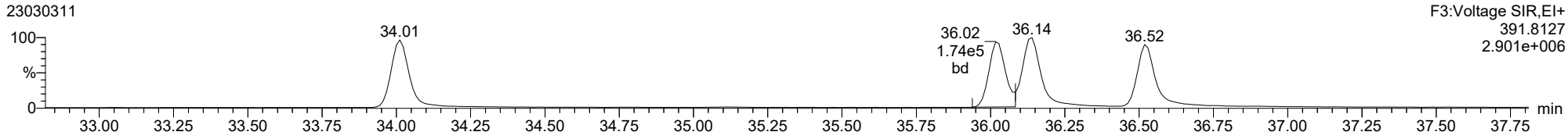

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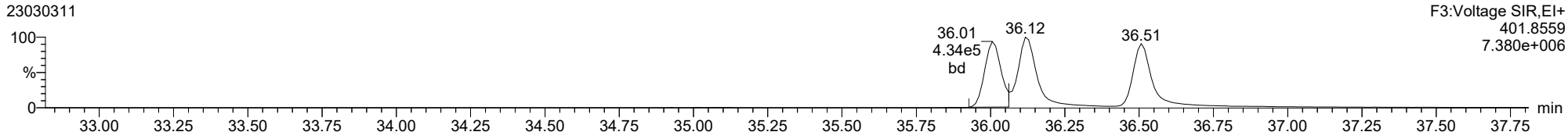

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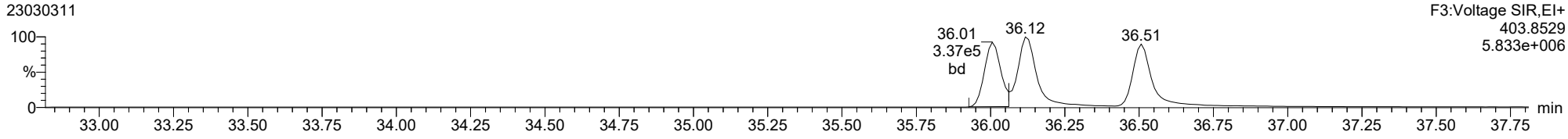

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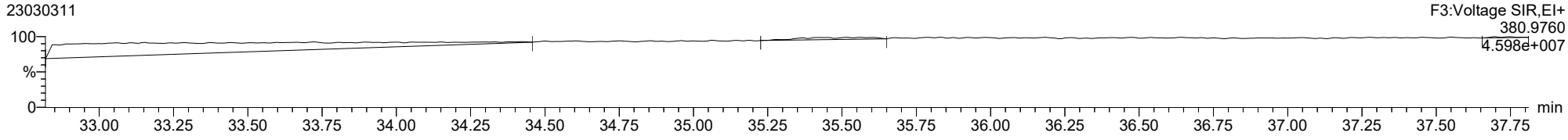

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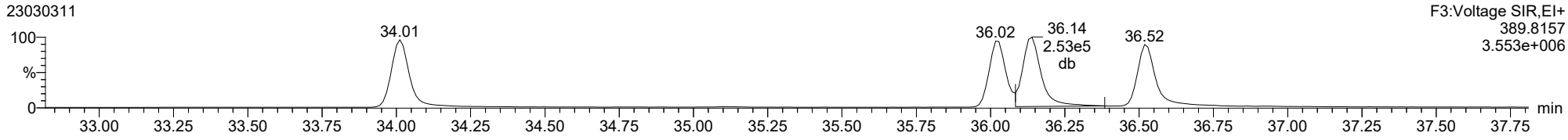

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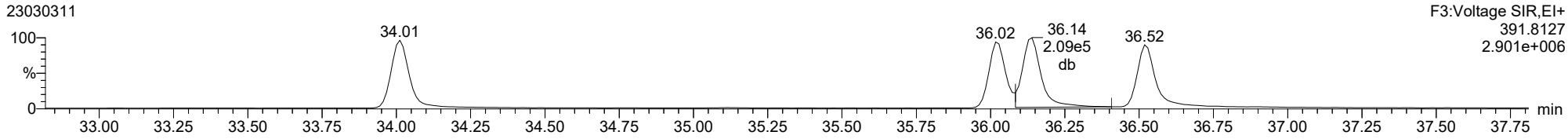

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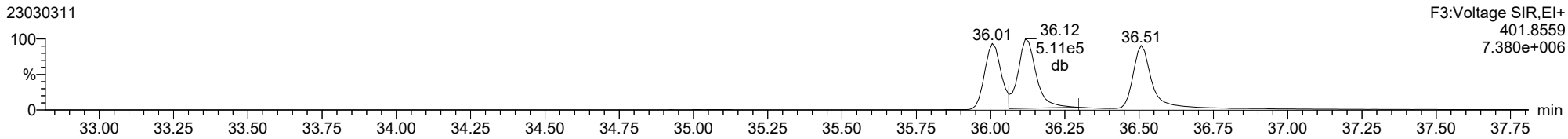

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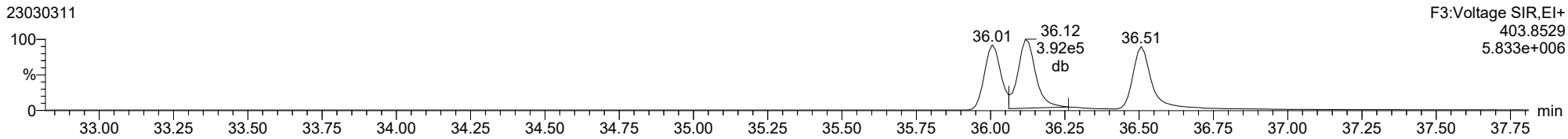

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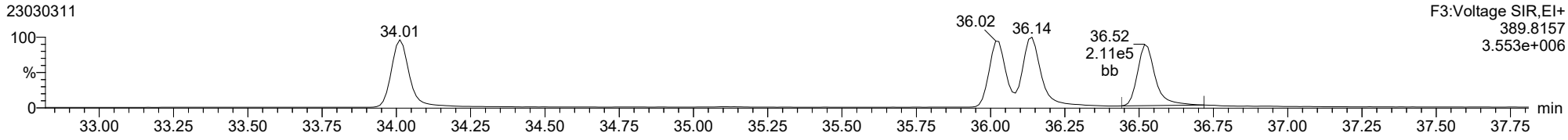

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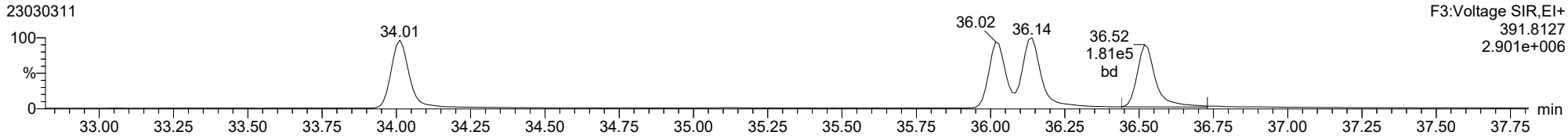

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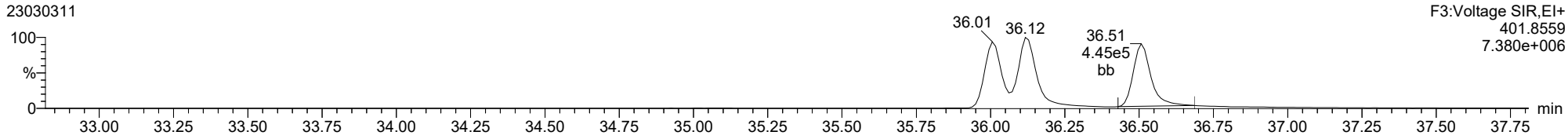

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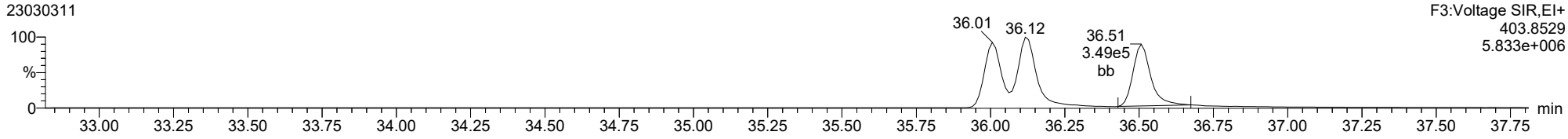

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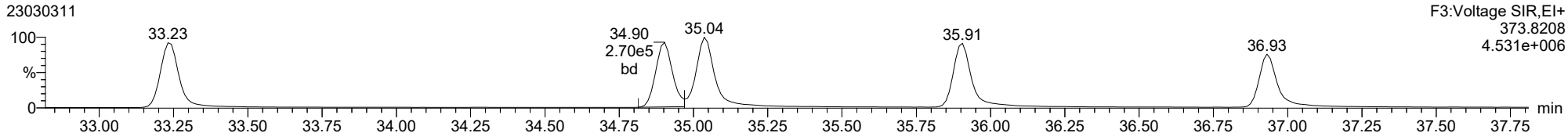

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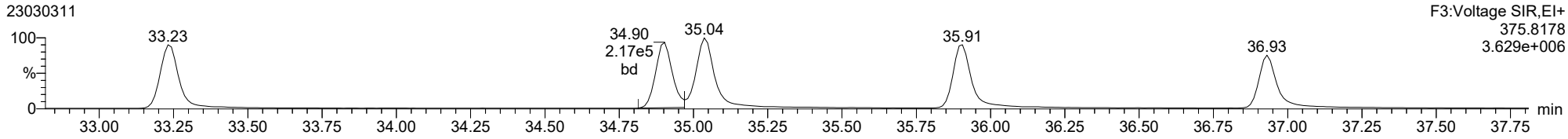

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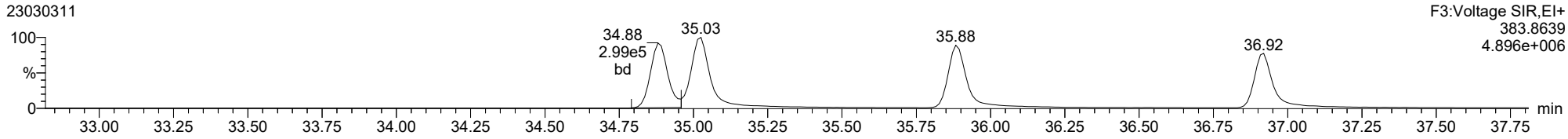

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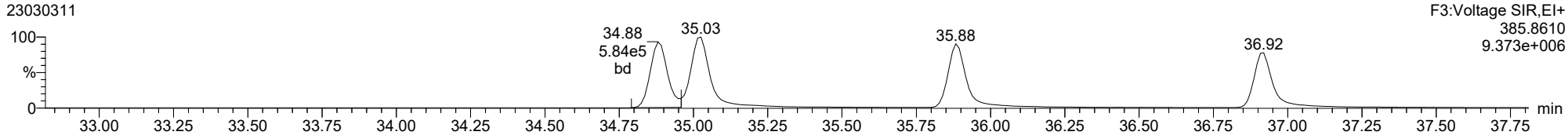

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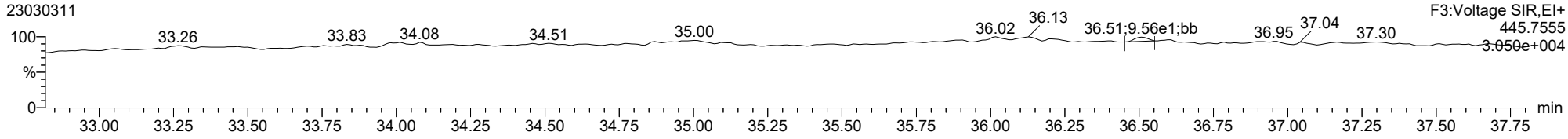

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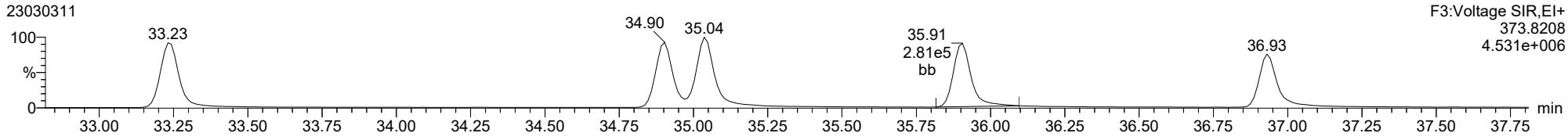

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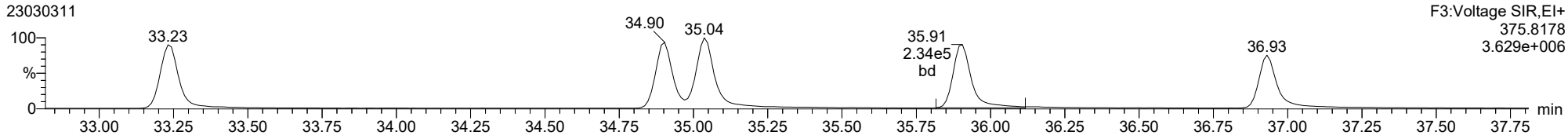

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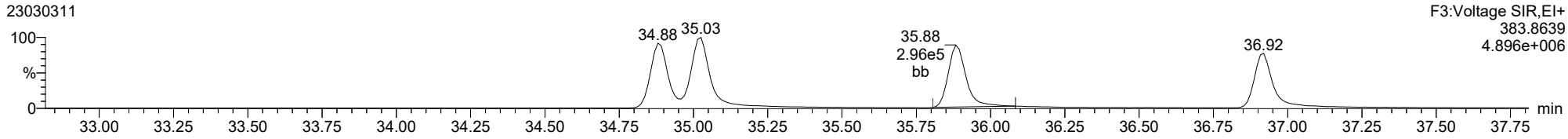

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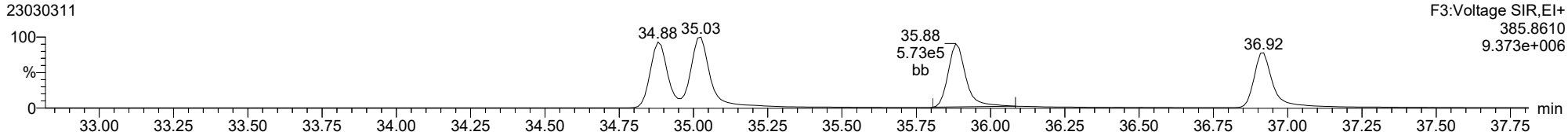

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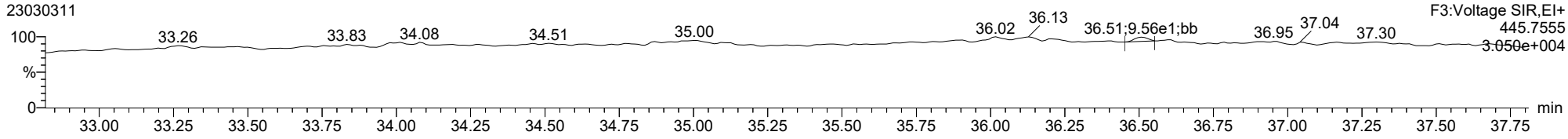

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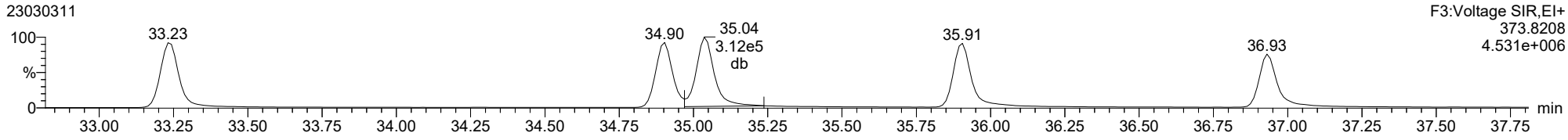

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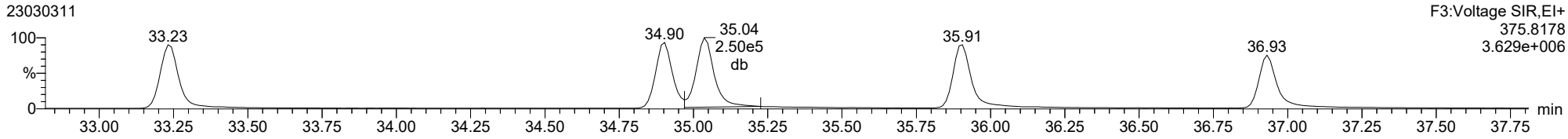

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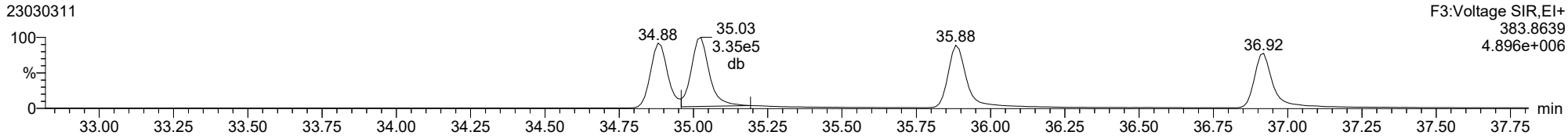

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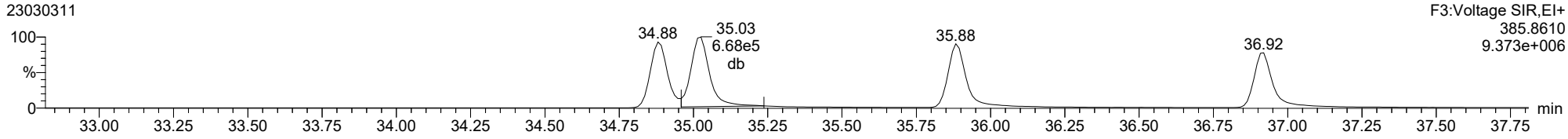

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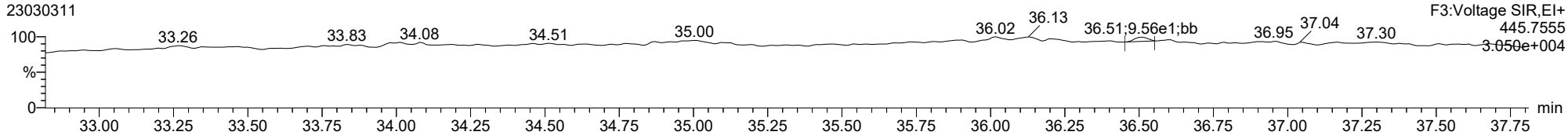

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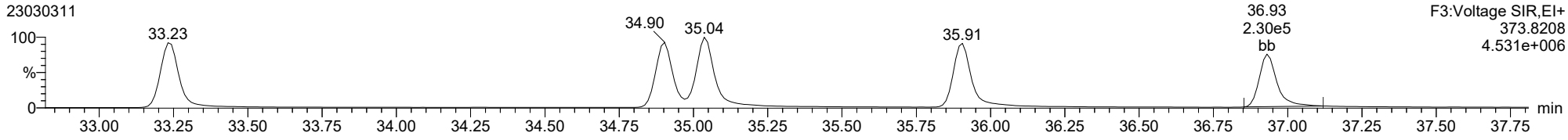

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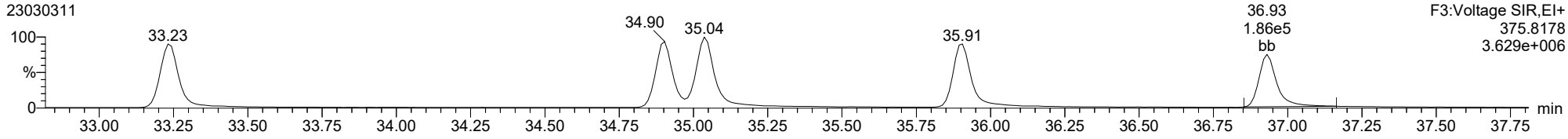

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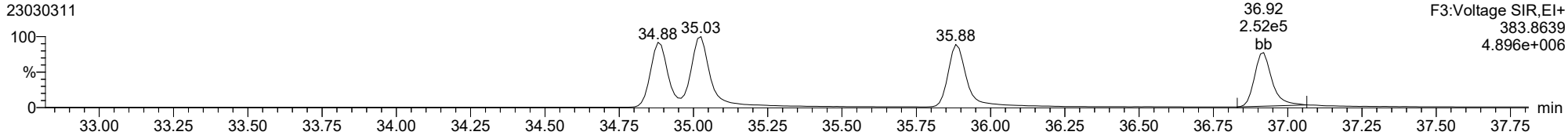

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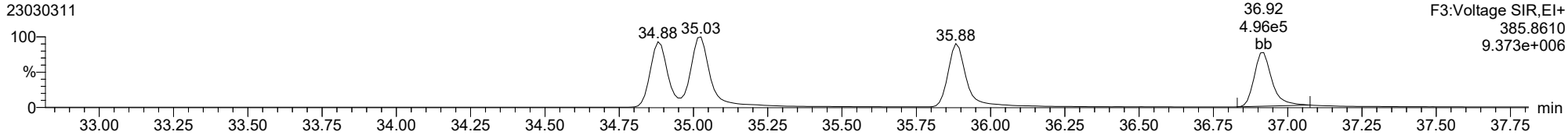

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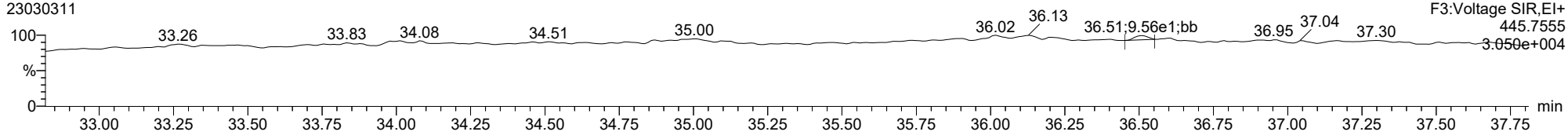

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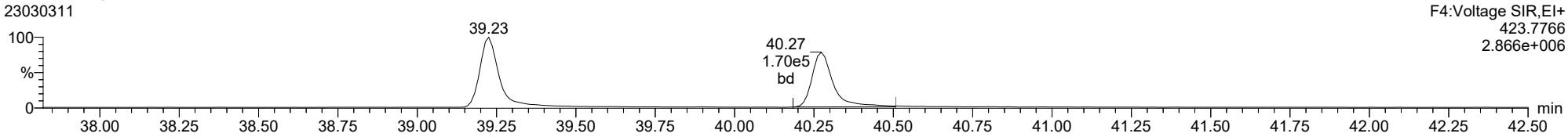

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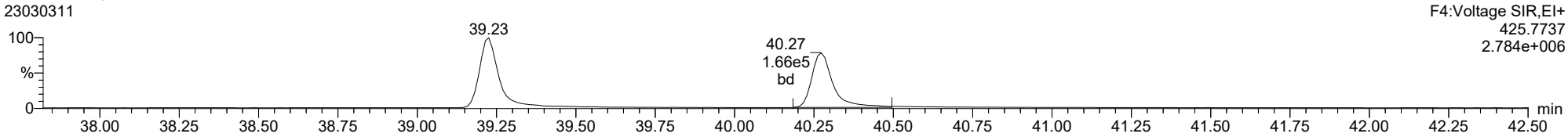

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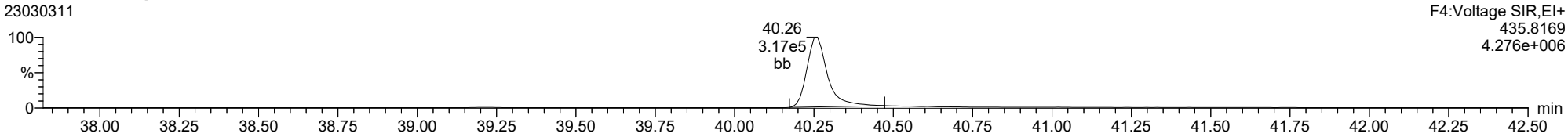

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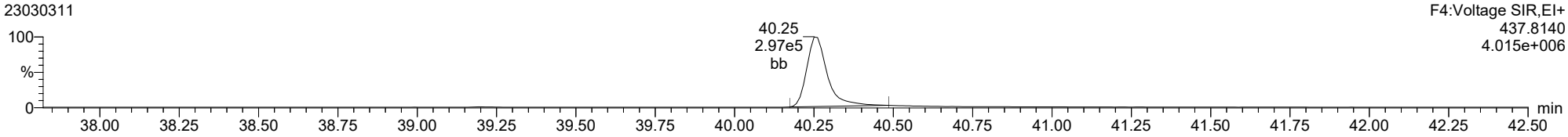

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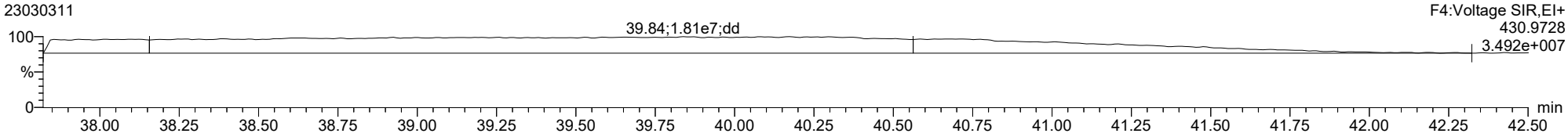

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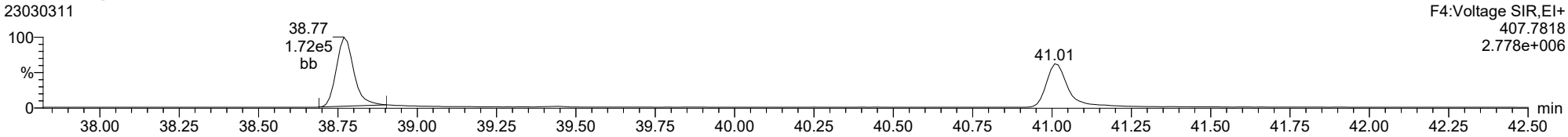

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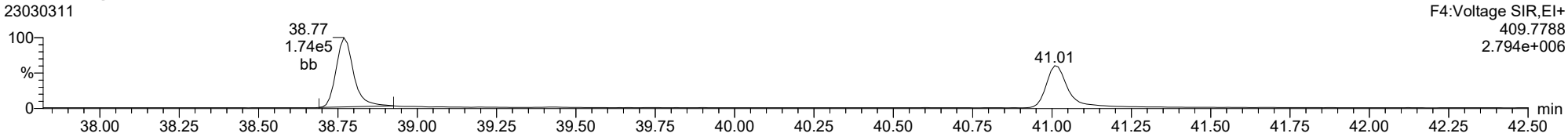

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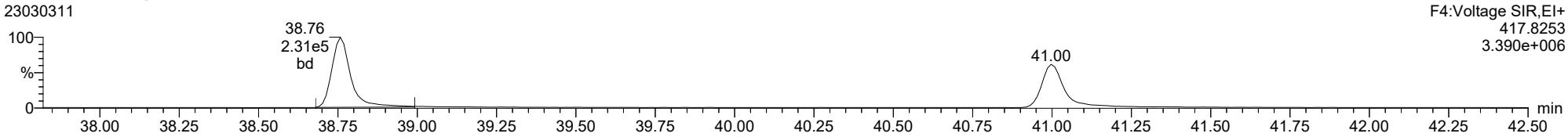

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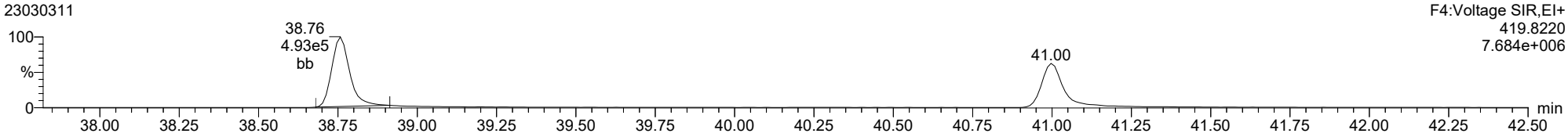

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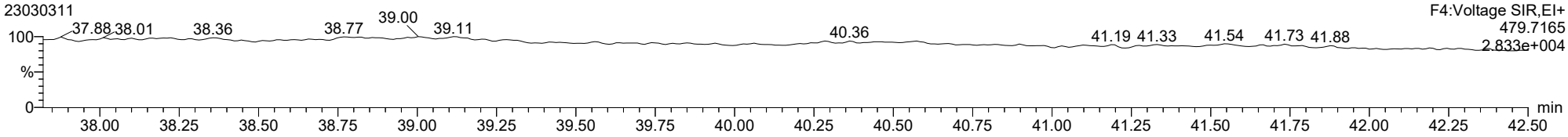

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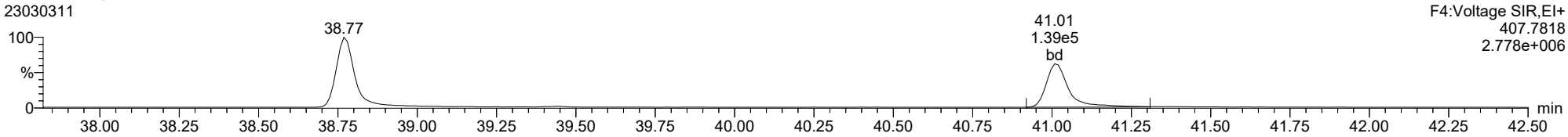

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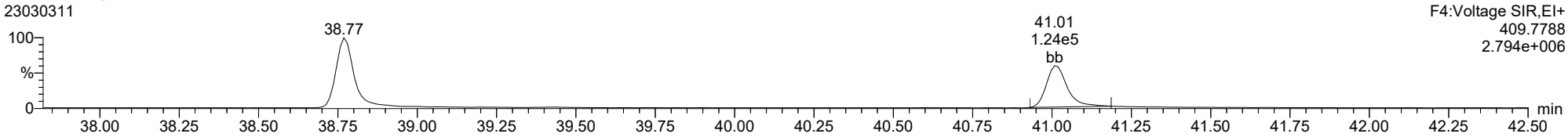

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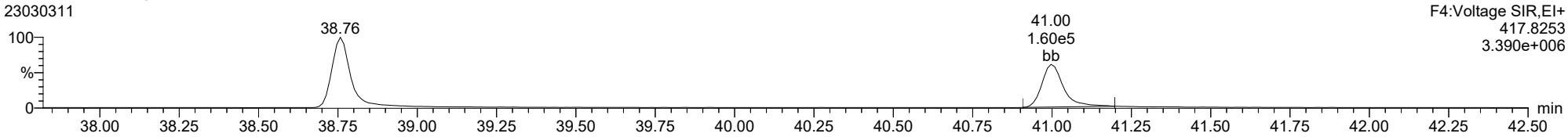

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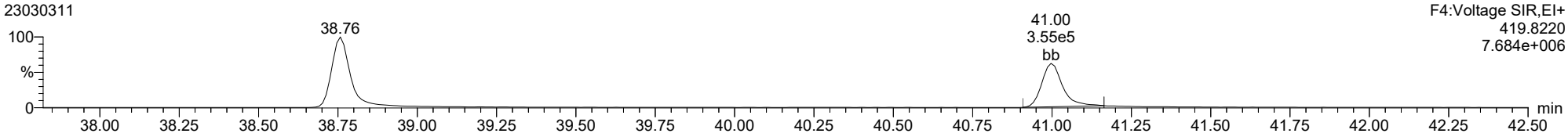

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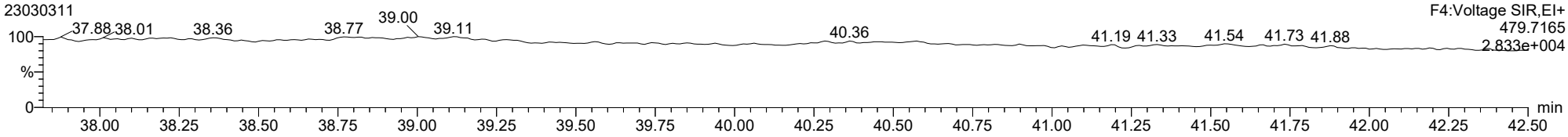

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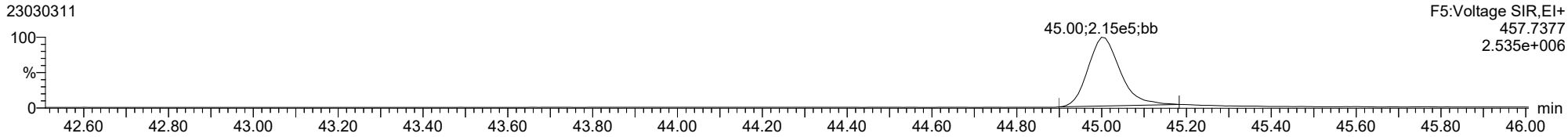

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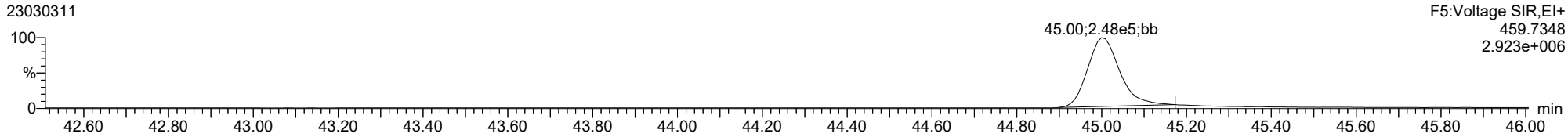

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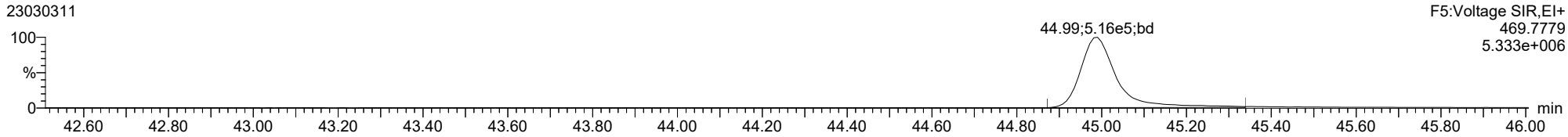

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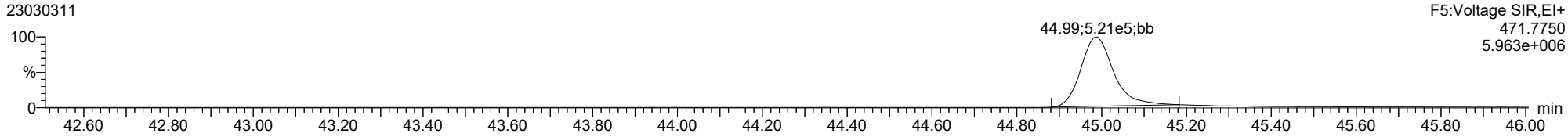

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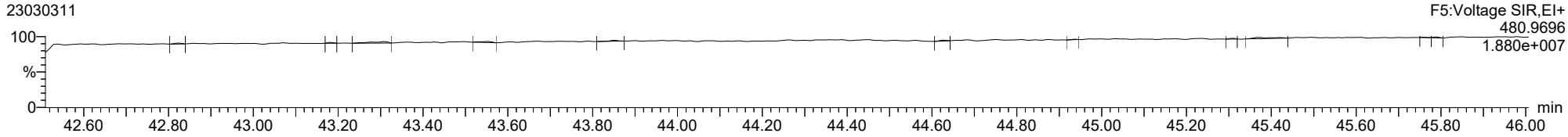

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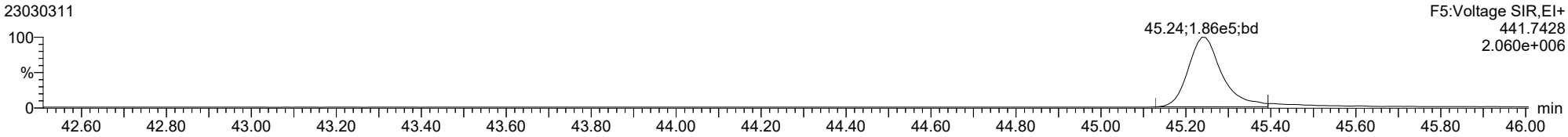

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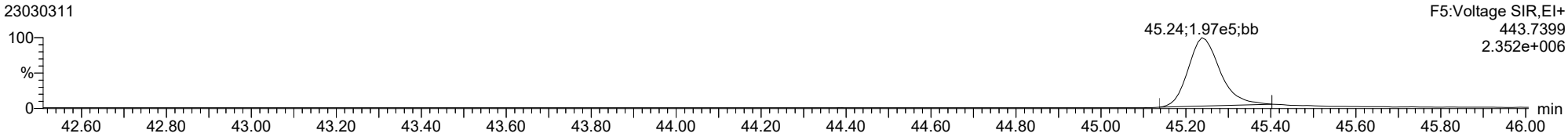

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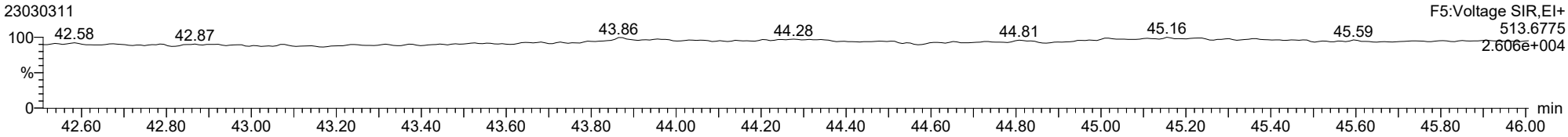

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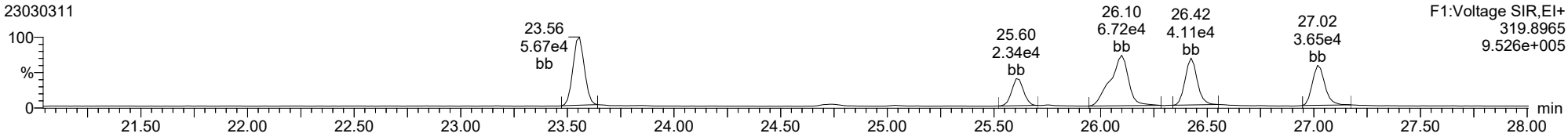

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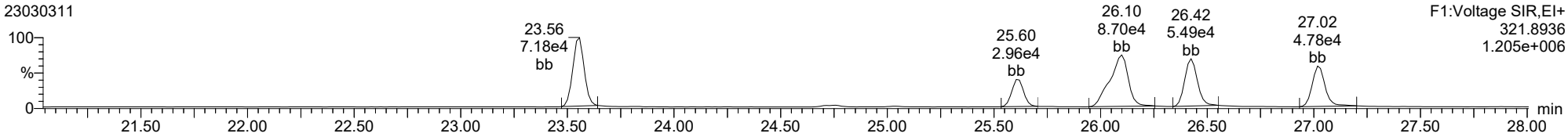

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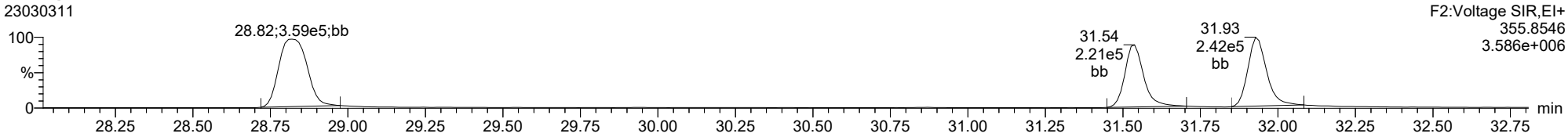

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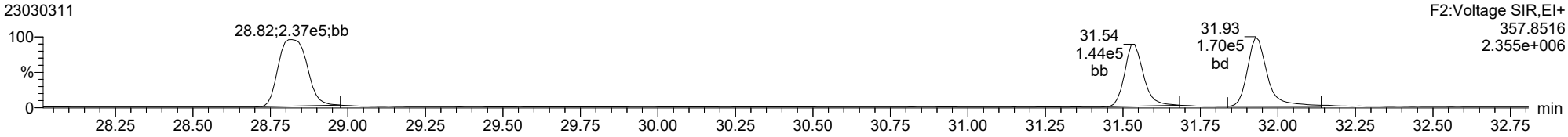

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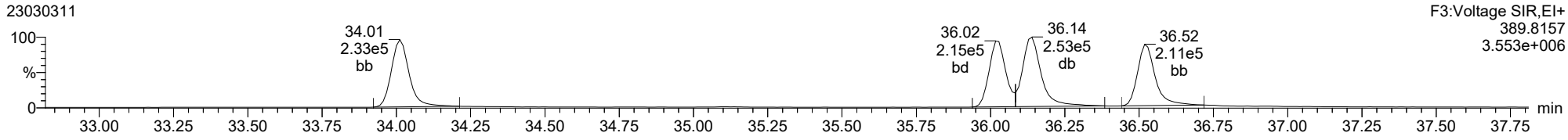

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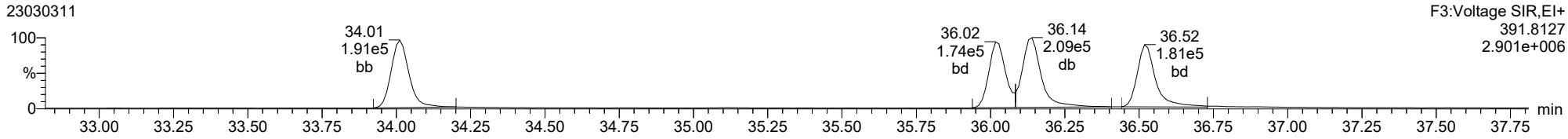

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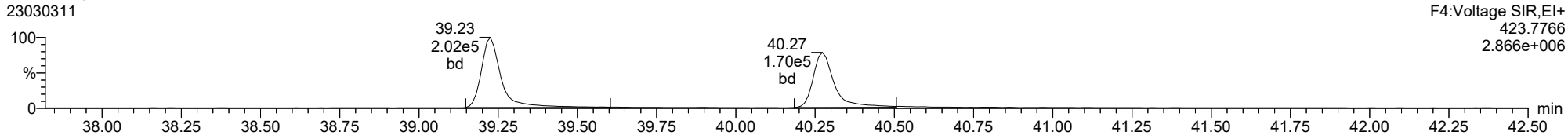

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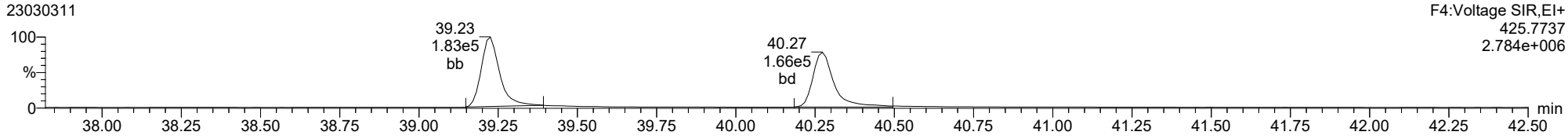

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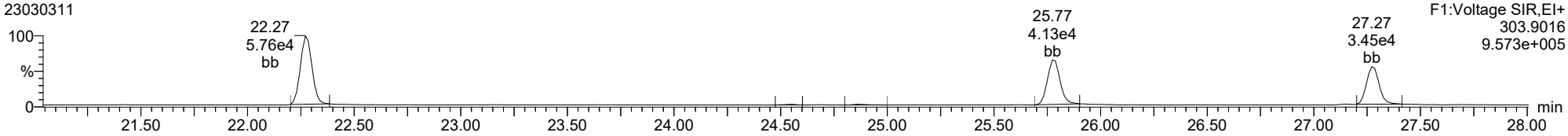

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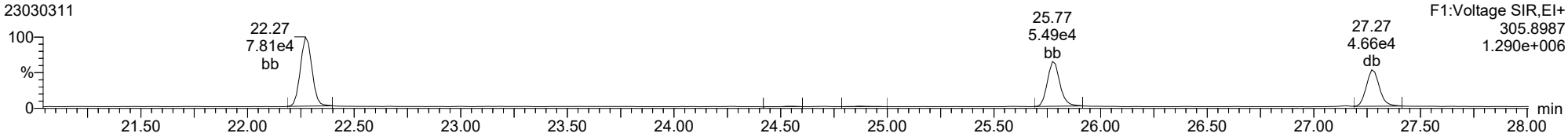

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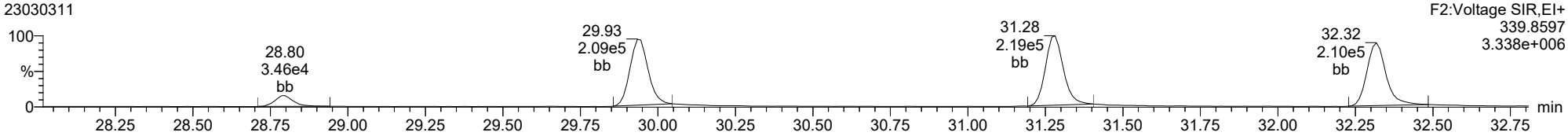

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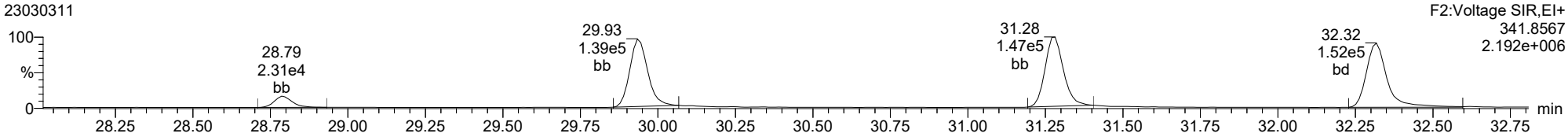

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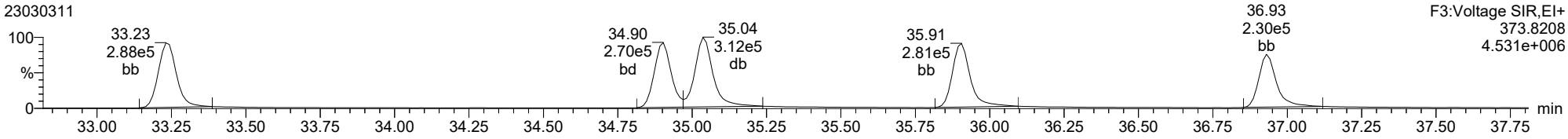

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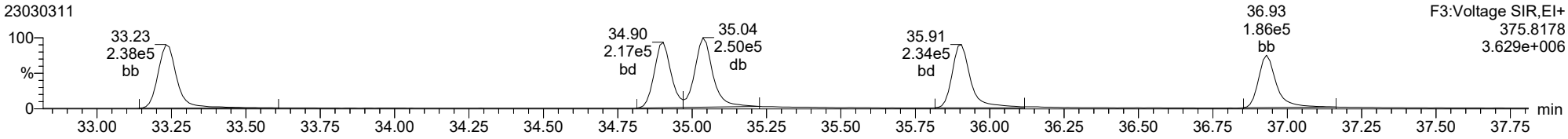

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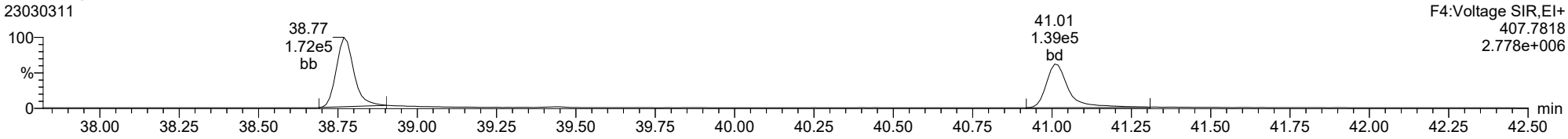

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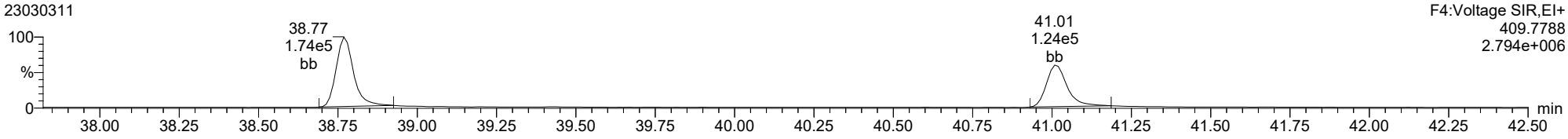

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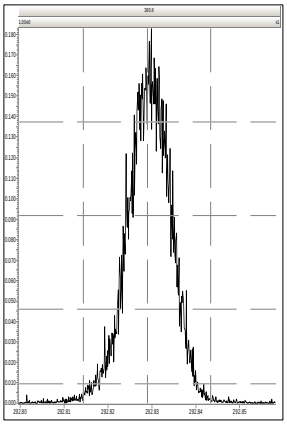

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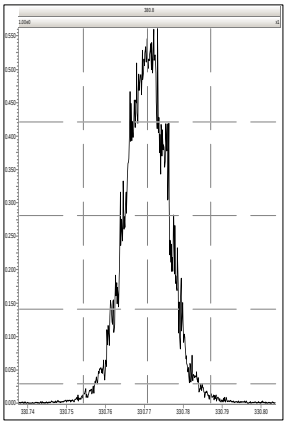

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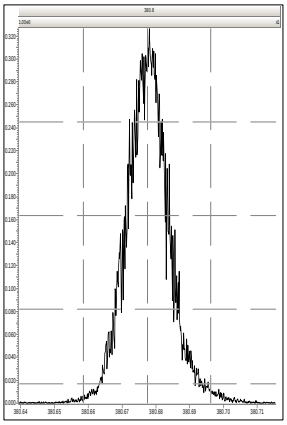

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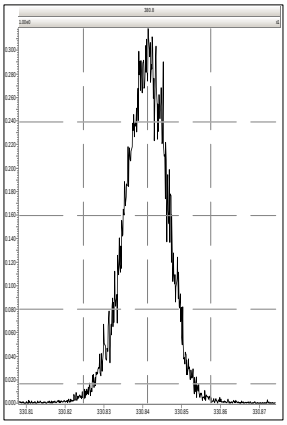

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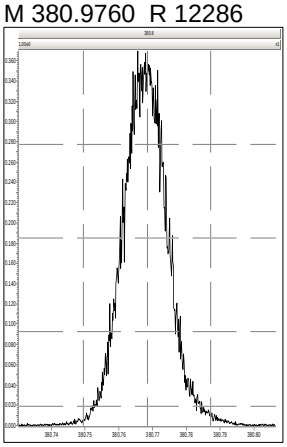

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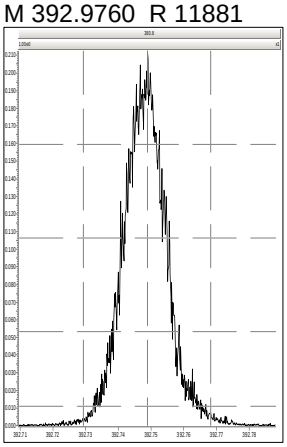

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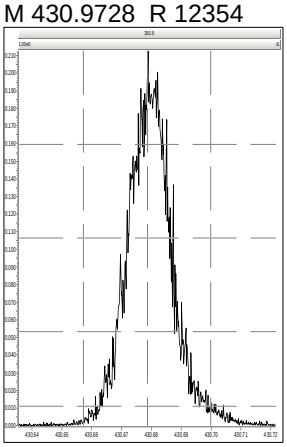

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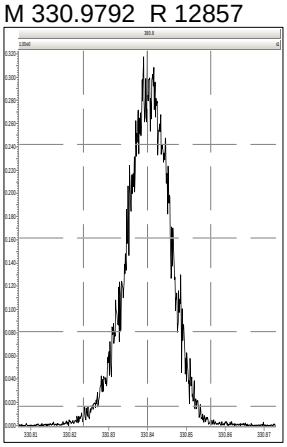

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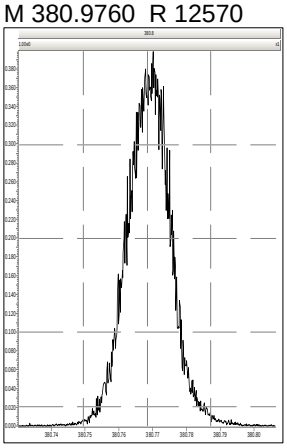

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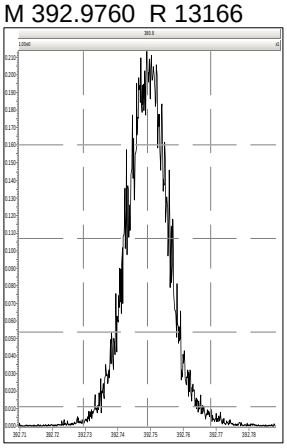

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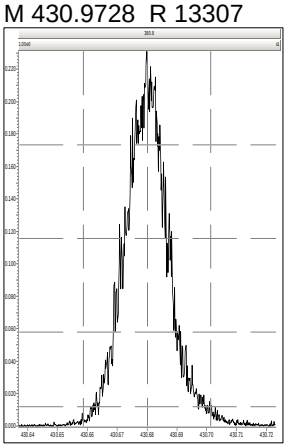
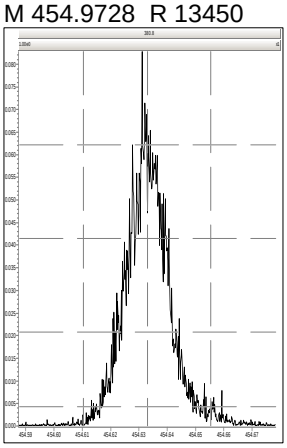
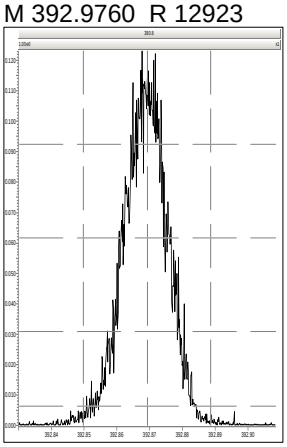


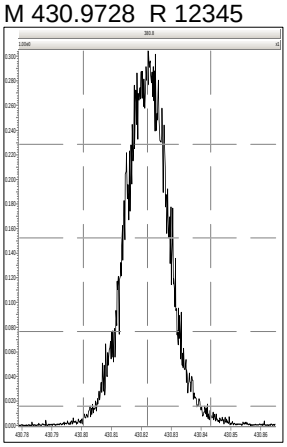
M 454.9728 R 13450



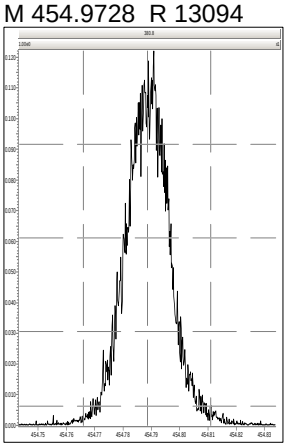
M 392.9760 R 12923



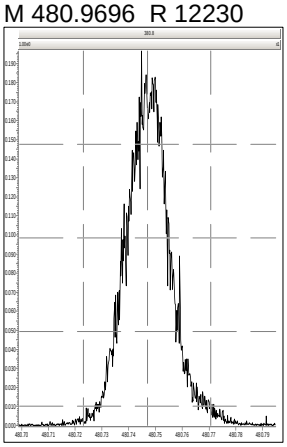
M 430.9728 R 12345



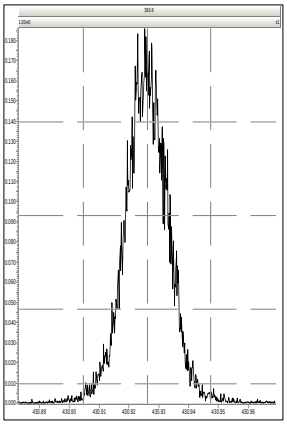
M 454.9728 R 13094



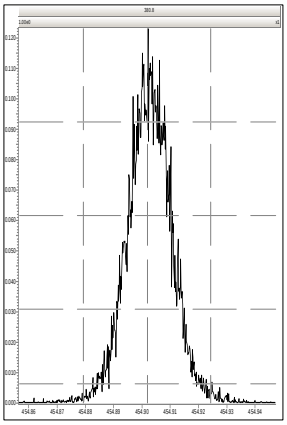
M 480.9696 R 12230



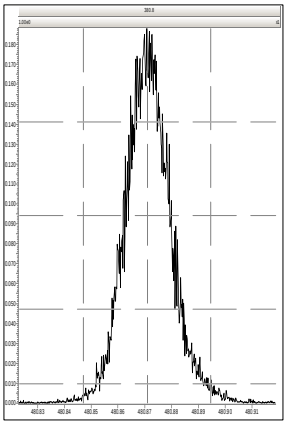
M 430.9728 R 12854



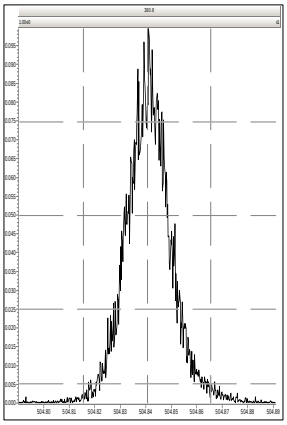
M 454.9728 R 13400



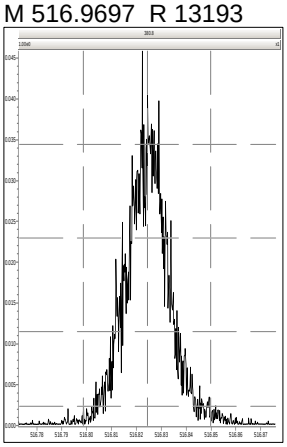
M 480.9696 R 11904

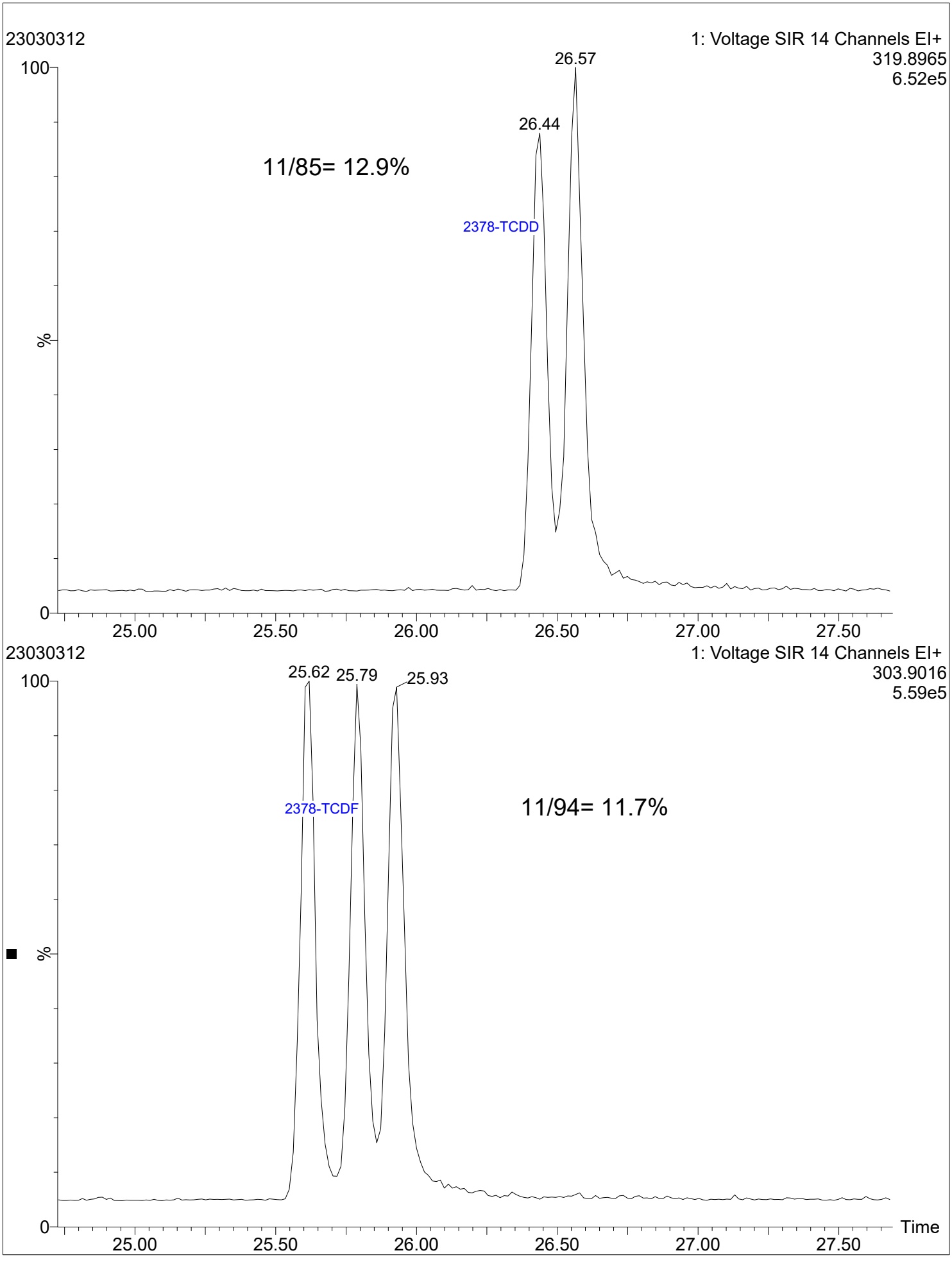


M 504.9696 R 12168



M 516.9697 R 13193

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6.52e5
26.57
26.44
11/85= 12.9%
2378-TCDD
100
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23030312
1: Voltage SIR 14 Channels EI+
303.9016
5.59e5
25.62
25.79
25.93
2378-TCDF
11/94= 11.7%
100
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00015
Laboratory ID: SLC0045-SCV1
Sequence: SLC0045
Sequence Name: ICVCW
Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	9.84	-1.6	
2,3,7,8-TCDD	10.000	9.81	-1.9	
1,2,3,7,8-PeCDF	50.000	51.4	2.8	
2,3,4,7,8-PeCDF	50.000	49.0	-2.0	
1,2,3,7,8-PeCDD	50.000	48.5	-2.9	
1,2,3,4,7,8-HxCDF	50.000	48.2	-3.5	
1,2,3,6,7,8-HxCDF	50.000	48.0	-4.0	
2,3,4,6,7,8-HxCDF	50.000	50.2	0.4	
1,2,3,7,8,9-HxCDF	50.000	49.1	-1.8	
1,2,3,4,7,8-HxCDD	50.000	50.8	1.6	
1,2,3,6,7,8-HxCDD	50.000	50.2	0.3	
1,2,3,7,8,9-HxCDD	50.000	51.6	3.2	
1,2,3,4,6,7,8-HpCDF	50.000	51.8	3.7	
1,2,3,4,7,8,9-HpCDF	50.000	48.5	-3.1	
1,2,3,4,6,7,8-HpCDD	50.000	49.2	-1.6	
OCDF	100.00	104	3.5	
OCDD	100.00	99.4	-0.6	
13C12-2,3,7,8-TCDF	100.00	96.9	-3.1	
13C12-2,3,7,8-TCDD	100.00	96.6	-3.4	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	-26.8	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	-24.1	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	-23.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	-7.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	-2.0	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	-6.6	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	-2.1	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	-4.1	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	2.1	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	4.0	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.5	
13C12-OCDD	200.00	162	-19.2	
37Cl4-2,3,7,8-TCDD	10.000	8.71	-12.9	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GC00015
Sequence: SLC0045

SDG: 23D0136
Project: AOC5 MR Phase 1
Laboratory ID: SLC0045-SCV1
Sequence Name: ICVCW
Standard ID: H008219

* Indicates values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00015
Laboratory ID: SLC0045-SCV1
Sequence: SLC0045
Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	104	3.5	
OCDD	100.00	99.4	-0.6	
13C12-2,3,7,8-TCDF	100.00	96.9	-3.1	
13C12-2,3,7,8-TCDD	100.00	96.6	-3.4	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	-26.8	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	-24.1	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	-23.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	-7.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	-2.0	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	-6.6	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	-2.1	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	-4.1	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	2.1	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	4.0	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.5	
13C12-OCDD	200.00	162	-19.2	
37Cl4-2,3,7,8-TCDD	10.000	8.71	-12.9	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030302	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-ICV1	Injection Time:	09:51
Sequence Name:	CS3W1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.55	0.7015272	0.6699659		-4.5	+/-16
2,3,7,8-TCDD	A	10.000	9.45	1.1486620	1.0855020		-5.5	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.6	0.6792300	0.6743560		-0.7	+/-18
2,3,4,7,8-PeCDF	A	50.000	47.5	0.7861704	0.7472986		-4.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.7	1.0218450	1.0147700		-0.7	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.1	1.1660380	1.0988190		-5.8	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	49.6	1.0907410	1.0813380		-0.9	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	49.3	1.1396990	1.1246750		-1.3	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.0	1.1370930	1.0679460		-6.1	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.1	0.9955689	0.9966266		0.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	49.6	1.0009380	0.9938861		-0.7	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	54.2	0.9071139	0.9838286		8.5	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.5	1.0029930	0.9526502		-5.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	50.2	0.9531152	0.9573187		0.4	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.6	1.0390130	0.9895371		-4.8	+/-14
OCDF	A	100.00	88.6	0.7778078	0.6890651		-11.4	+/-37
OCDD	A	100.00	98.4	0.9199537	0.9055309		-1.6	+/-21
13C12-2,3,7,8-TCDF	A	100.00	94.0	1.6201960	1.5232274		-6.0	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.1524090	1.1727116		1.8	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	92.2	1.2404520	1.1438587		-7.8	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	87.6	1.1177860	0.9791895		-12.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	84.3	0.8288129	0.6985475		-15.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	84.0	1.1683050	0.9815313		-16.0	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	74.6	1.3864660	1.0348865		-25.4	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	88.7	1.1292560	1.0010969		-11.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	99.9	0.9317541	0.9305560		-0.1	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	93.5	0.9950393	0.9299453		-6.5	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	86.9	1.1566890	1.0052205		-13.1	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	95.3	0.8952017	0.8530837		-4.7	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	98.7	0.7697516	0.7594900		-1.3	+/-23

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030302	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-ICV1	Injection Time:	09:51
Sequence Name:	CS3W1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	105	0.8401226	0.8828452		5.1	+/-28
13C12-OCDD	A	200.00	214	0.7674714	0.8220320		7.1	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.05	1.2878040	1.1649542		-9.5	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23050922A	Calibration Date:	03/03/2023
Sequence:	SLE0060	Injection Date:	05/10/23
Lab Sample ID:	SLE0060-ICV1	Injection Time:	06:11
Sequence Name:	CS3K6		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	11.0	0.7015272	0.7737050		10.3	+/-16
2,3,7,8-TCDD	A	10.000	9.04	1.1486620	1.0384220		-9.6	+/-22
1,2,3,7,8-PeCDF	A	50.000	54.5	0.6792300	0.7407199		9.1	+/-18
2,3,4,7,8-PeCDF	A	50.000	52.1	0.7861704	0.8186656		4.1	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.6	1.0218450	1.0554720		3.3	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.0	1.1660380	1.0970340		-5.9	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	48.8	1.0907410	1.0651550		-2.3	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	47.5	1.1396990	1.0829980		-5.0	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	50.6	1.1370930	1.1514780		1.3	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	48.1	0.9955689	0.9576144		-3.8	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	46.9	1.0009380	0.9398602		-6.1	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	51.9	0.9071139	0.9422093		3.9	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	52.8	1.0029930	1.0587960		5.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	53.7	0.9531152	1.0231130		7.3	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	54.8	1.0390130	1.1390650		9.6	+/-14
OCDF	A	100.00	101	0.7778078	0.7851392		0.9	+/-37
OCDD	A	100.00	96.9	0.9199537	0.8914075		-3.1	+/-21
13C12-2,3,7,8-TCDF	A	100.00	101	1.6201960	1.6313265		0.7	+/-29
13C12-2,3,7,8-TCDD	A	100.00	105	1.1524090	1.2065254		4.7	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	113	1.2404520	1.3965750		12.6	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	116	1.1177860	1.2971413		16.0	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	106	0.8288129	0.8792768		6.1	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	87.1	1.1683050	1.0175557		-12.9	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	90.1	1.3864660	1.2497577		-9.9	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	96.1	1.1292560	1.0852654		-3.9	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	95.0	0.9317541	0.8847847		-5.0	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	91.6	0.9950393	0.9117499		-8.4	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	93.1	1.1566890	1.0764412		-6.9	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	104	0.8952017	0.9336111		4.3	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	110	0.7697516	0.8442228		9.7	+/-23

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23050922A	Calibration Date:	03/03/2023
Sequence:	SLE0060	Injection Date:	05/10/23
Lab Sample ID:	SLE0060-ICV1	Injection Time:	06:11
Sequence Name:	CS3K6		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	92.8	0.8401226	0.7797636		-7.2	+/-28
13C12-OCDD	A	200.00	229	0.7674714	0.8787232		14.5	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.79	1.2878040	1.1320644		-12.1	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:19:18 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.661	1.000	2.833e4	3.785e4	0.702	0.748	0.770	978	1317	4.21e5	5.57e5	430.5	422.9	NO	bb	bb	11.029
12378-PeCDF	29.822	1.001	1.642e5	1.070e5	0.679	1.534	1.550	2681	2521	2.44e6	1.56e6	910.1	618.1	NO	bb	bb	54.526
23478-PeCDF	31.159	1.001	1.683e5	1.101e5	0.786	1.528	1.550	2681	2521	2.52e6	1.63e6	938.5	646.5	NO	bb	bb	52.067
123478-HxCDF	34.780	1.001	1.628e5	1.320e5	1.166	1.233	1.240	2940	2313	2.46e6	1.99e6	838.2	860.1	NO	bd	bd	47.041
234678-HxCDF	35.783	1.001	1.741e5	1.362e5	1.140	1.278	1.240	2940	2313	2.46e6	1.97e6	837.2	851.5	NO	bd	bb	47.512
123678-HxCDF	34.914	1.000	1.875e5	1.640e5	1.091	1.144	1.240	2940	2313	2.59e6	2.08e6	882.1	899.6	NO	db	db	48.827
123789-HxCDF	36.807	1.000	1.434e5	1.256e5	1.137	1.142	1.240	2940	2313	1.98e6	1.65e6	675.2	715.0	NO	bb	bb	50.633
1234678-HpCDF	38.646	1.000	1.370e5	1.240e5	1.003	1.105	1.050	2331	2337	1.93e6	1.88e6	827.4	805.7	NO	bd	bb	52.782
1234789-HpCDF	40.874	1.000	1.144e5	1.137e5	0.953	1.007	1.050	2331	2337	1.50e6	1.46e6	645.6	623.5	NO	bd	bb	53.672
OCDF	45.062	1.006	1.713e5	1.931e5	0.778	0.887	0.890	2255	2246	2.02e6	2.28e6	895.2	1014.3	NO	bb	bb	100.943
2378-TCDD	26.311	1.001	2.905e4	3.664e4	1.149	0.793	0.770	1372	1124	4.39e5	5.33e5	319.7	474.7	NO	bb	bb	9.040
12378-PeCDD	31.415	1.001	1.452e5	9.805e4	1.022	1.481	1.550	1821	1797	2.13e6	1.34e6	1168.5	747.6	NO	bb	bb	51.645
123478-HxCDD	35.905	1.001	1.271e5	1.034e5	0.996	1.229	1.240	2153	2064	2.03e6	1.62e6	942.4	786.5	NO	bd	bd	48.094
123678-HxCDD	36.017	1.000	1.464e5	1.208e5	1.001	1.212	1.240	2153	2064	2.16e6	1.79e6	1005.2	865.5	NO	db	db	46.949
123789-HxCDD	36.407	1.011	1.411e5	1.062e5	0.907	1.328	1.240	2153	2064	1.98e6	1.58e6	919.0	763.1	NO	bd	bb	51.934
1234678-HpCDD	40.139	1.000	1.214e5	1.131e5	1.039	1.073	1.050	2308	1701	1.61e6	1.50e6	698.4	882.2	NO	bd	bd	54.815
OCDD	44.824	1.000	1.928e5	2.209e5	0.920	0.873	0.890	2511	3071	2.31e6	2.65e6	920.4	862.2	NO	bb	bb	96.897
13C-2378-TCDF	25.647	1.007	3.744e5	4.808e5	1.620	0.779	0.770	1748	1265	5.28e6	6.83e6	3018.8	5395.1	NO	bb	bb	100.687
13C-12378-PeCDF	29.800	1.170	4.347e5	2.975e5	1.240	1.462	1.550	3590	2399	6.29e6	4.15e6	1753.3	1729.4	NO	bb	bd	112.586
13C-23478-PeCDF	31.137	1.222	4.141e5	2.659e5	1.118	1.557	1.550	3590	2399	5.94e6	3.85e6	1654.0	1605.8	NO	bb	bb	116.046
13C-123478-HxCDF	34.758	0.955	1.813e5	3.560e5	1.168	0.509	0.510	2094	2890	2.66e6	5.26e6	1267.9	1819.9	NO	bd	bd	87.097
13C-123678-HxCDF	34.903	0.959	2.196e5	4.404e5	1.386	0.498	0.510	2094	2890	2.94e6	5.83e6	1404.7	2017.4	NO	db	dd	90.140
13C-234678-HxCDF	35.760	0.983	1.841e5	3.891e5	1.129	0.473	0.510	2094	2890	2.63e6	5.27e6	1253.8	1822.0	NO	bb	bb	96.104
13C-123789-HxCDF	36.797	1.011	1.555e5	3.117e5	0.932	0.499	0.510	2094	2890	2.33e6	4.60e6	1111.8	1590.5	NO	bb	bb	94.959
13C-1234678-HpCDF	38.635	1.062	1.522e5	3.408e5	0.895	0.447	0.440	2501	3454	2.38e6	5.34e6	953.4	1545.3	NO	bb	bb	104.291
13C-1234789-HpCDF	40.863	1.123	1.337e5	3.121e5	0.770	0.428	0.440	2501	3454	1.72e6	3.83e6	686.8	1108.0	NO	bd	bd	109.675
13C-1234-TCDD	25.478	0.000	2.293e5	2.950e5	1.000	0.777	0.770	1421	1258	3.46e6	4.45e6	2437.0	3538.3	NO	bb	bb	100.000
13C-2378-TCDD	26.283	1.032	2.759e5	3.566e5	1.152	0.774	0.770	1421	1258	3.90e6	5.03e6	2742.6	3996.2	NO	bb	bb	104.696
13C-12378-PeCDD	31.393	1.232	2.861e5	1.749e5	0.829	1.636	1.550	1546	974	3.96e6	2.45e6	2561.9	2516.3	NO	bb	bd	106.089
13C-123478-HxCDD	35.883	0.986	2.698e5	2.117e5	0.995	1.275	1.240	2812	1823	4.04e6	3.17e6	1438.1	1740.6	NO	bd	bd	91.630
13C-123678-HxCDD	36.006	0.990	3.135e5	2.549e5	1.157	1.230	1.240	2812	1823	4.33e6	3.51e6	1539.2	1925.5	NO	db	db	93.062
13C-1234678-HpCDD	40.128	1.103	2.222e5	1.896e5	0.840	1.172	1.050	1783	1853	2.83e6	2.61e6	1586.2	1408.9	NO	bb	bb	92.815
13C-OCDD	44.805	1.231	4.407e5	4.874e5	0.767	0.904	0.890	3468	3280	4.68e6	5.12e6	1350.4	1561.6	NO	bd	bd	228.992
13C-123789-HxCDD	36.384	0.000	2.976e5	2.305e5	1.000	1.291	1.240	2812	1823	4.12e6	3.28e6	1463.4	1799.4	NO	bd	bb	100.000
37CL-2378-TCDD	26.311	1.033	5.935e4		1.288			1291		8.58e5		664.4			bb		8.791

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:19:18 Pacific Daylight Time

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.172	0.864	3.392e4	4.563e4	0.802	0.743	0.770	978	1317	5.41e5	7.19e5	553.0	545.6	NO	bb	bb	11.606
1289-TCDF	27.159	1.059	2.437e4	3.410e4	0.678	0.715	0.770	978	1317	3.70e5	5.02e5	378.0	381.0	NO	bb	db	10.084
13468-PECDF	27.017	0.907	2.494e5	1.653e5	1.246	1.509	1.550	867	846	3.74e6	2.52e6	4317.6	2973.4	NO	bb	bb	45.444
12389-PECDF	32.195	1.080	1.495e5	9.683e4	0.496	1.543	1.550	2681	2521	2.10e6	1.39e6	783.0	550.7	NO	bb	bb	67.771
123468-HXCDF	33.109	0.953	1.681e5	1.343e5	1.169	1.251	1.240	2940	2313	2.43e6	1.94e6	826.7	839.1	NO	bb	bb	48.130
1368-TCDD	23.444	0.892	2.829e4	3.576e4	1.015	0.791	0.770	1372	1124	4.42e5	5.50e5	321.9	489.2	NO	bb	bb	9.973
1289-TCDD	26.904	1.024	2.505e4	3.016e4	0.909	0.831	0.770	1372	1124	3.53e5	4.40e5	257.4	391.7	NO	bd	bd	9.604
12479-PECDD	28.697	0.914	2.410e5	1.554e5	2.301	1.551	1.550	1821	1797	2.24e6	1.48e6	1231.3	821.7	NO	bb	bb	37.361
12389-PECDD	31.805	1.013	1.548e5	1.029e5	1.184	1.505	1.550	1821	1797	2.28e6	1.49e6	1249.4	829.5	NO	bb	bb	47.240
124679-HXCDD	33.889	0.944	1.385e5	1.083e5	1.115	1.279	1.240	2153	2064	2.01e6	1.66e6	934.7	803.3	NO	bb	bb	45.966
1234679-HPCDD	39.103	0.975	1.301e5	1.157e5	1.137	1.124	1.050	2308	1701	1.87e6	1.76e6	809.9	1036.7	NO	bd	bb	52.509
Total-tetrafurans			8.684e4		0.727			978		1.34e6							32.803
Total-penta1			2.494e5					867		3.74e6							45.444
Total-pentafurans			5.087e5		0.654			2681		7.45e6							183.727
Total-hexafurans			8.359e5		1.141			2940		1.19e7							242.143
Total-heptafurans			2.514e5		0.978			2331		3.43e6							106.454
Total-Furans			2.104e6		0.922			978		2.99e7							711.514
Total-tetradioxins			1.379e5		1.024			1372		1.85e6							47.921
Total-pentadioxins			5.410e5		1.502			1821		6.65e6							136.246
Total-hexadioxins			5.531e5		1.005			2153		8.18e6							192.943
Total-heptadioxins			2.517e5		1.088			2308		3.49e6							107.394
Total-Dioxins			1.676e6		1.130			1372		2.25e7							581.402
Total-TEQ			3.780e6					1372		5.24e7							1292.916
FUNCTION1 PFK			1.668e5					186971		3.41e6							
FUNCTION2 PFK			8.113e5					106552		3.34e6							0.000
FUNCTION3 PFK			4.076e4					172503		1.24e6							0.000
FUNCTION4 PFK			1.993e5					140525		6.20e6							
FUNCTION5 PFK			0.000e0					116429		0.00e0							
FUNCTION1 HXCD...			5.753e2					520		8.04e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.123e2					631		7.31e3							0.000
FUNCTION3 OCDPE			1.152e2					622		1.82e3							0.000
FUNCTION4 NCDPE			1.143e2					628		4.46e3							0.000
FUNCTION5 DCDPE			7.330e1					570		1.31e3							0.000

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.66	2.833e4	3.785e4	0.702	0.75	0.77	430.5	YES	NO	bb	bb	11.029
2	Total-tetrafurans	23.99	2.198e2	3.057e2	0.727	0.72	0.77	4.9	YES	NO	db	bb	0.085
3	1368-TCDF	22.17	3.392e4	4.563e4	0.802	0.74	0.77	553.0	YES	NO	bb	bb	11.606
4	1289-TCDF	27.16	2.437e4	3.410e4	0.678	0.71	0.77	378.0	YES	NO	bb	db	10.084

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.02	2.494e5	1.653e5	1.246	1.51	1.55	4317.6	YES	NO	bb	bb	45.444

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.16	1.683e5	1.101e5	0.786	1.53	1.55	938.5	YES	NO	bb	bb	52.067
2	12378-PeCDF	29.82	1.642e5	1.070e5	0.679	1.53	1.55	910.1	YES	NO	bb	bb	54.526
3	Total-pentafurans	28.67	2.684e4	1.639e4	0.654	1.64	1.55	147.3	YES	NO	bb	bb	9.363
4	12389-PECDF	32.20	1.495e5	9.683e4	0.496	1.54	1.55	783.0	YES	NO	bb	bb	67.771

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.78	1.741e5	1.362e5	1.140	1.28	1.24	837.2	YES	NO	bd	bb	47.512
2	123678-HxCDF	34.91	1.875e5	1.640e5	1.091	1.14	1.24	882.1	YES	NO	db	db	48.827
3	123478-HxCDF	34.78	1.628e5	1.320e5	1.166	1.23	1.24	838.2	YES	NO	bd	bd	47.041
4	123468-HXCDF	33.11	1.681e5	1.343e5	1.169	1.25	1.24	826.7	YES	NO	bb	bb	48.130
5	123789-HxCDF	36.81	1.434e5	1.256e5	1.137	1.14	1.24	675.2	YES	NO	bb	bb	50.633

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.87	1.144e5	1.137e5	0.953	1.01	1.05	645.6	YES	NO	bd	bb	53.672
2	1234678-HpCDF	38.65	1.370e5	1.240e5	1.003	1.11	1.05	827.4	YES	NO	bd	bb	52.782

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.66	2.833e4	3.785e4	0.702	0.75	0.77	430.5	YES	NO	bb	bb	11.029
2	Total-tetrafurans	23.99	2.198e2	3.057e2	0.727	0.72	0.77	4.9	YES	NO	db	bb	0.085
3	1368-TCDF	22.17	3.392e4	4.563e4	0.802	0.74	0.77	553.0	YES	NO	bb	bb	11.606
4	23478-PeCDF	31.16	1.683e5	1.101e5	0.786	1.53	1.55	938.5	YES	NO	bb	bb	52.067
5	12378-PeCDF	29.82	1.642e5	1.070e5	0.679	1.53	1.55	910.1	YES	NO	bb	bb	54.526
6	Total-pentafurans	28.67	2.684e4	1.639e4	0.654	1.64	1.55	147.3	YES	NO	bb	bb	9.363
7	1289-TCDF	27.16	2.437e4	3.410e4	0.678	0.71	0.77	378.0	YES	NO	bb	db	10.084
8	234678-HxCDF	35.78	1.741e5	1.362e5	1.140	1.28	1.24	837.2	YES	NO	bd	bb	47.512
9	123678-HxCDF	34.91	1.875e5	1.640e5	1.091	1.14	1.24	882.1	YES	NO	db	db	48.827
10	123478-HxCDF	34.78	1.628e5	1.320e5	1.166	1.23	1.24	838.2	YES	NO	bd	bd	47.041
11	123468-HXCDF	33.11	1.681e5	1.343e5	1.169	1.25	1.24	826.7	YES	NO	bb	bb	48.130
12	12389-PECDF	32.20	1.495e5	9.683e4	0.496	1.54	1.55	783.0	YES	NO	bb	bb	67.771
13	123789-HxCDF	36.81	1.434e5	1.256e5	1.137	1.14	1.24	675.2	YES	NO	bb	bb	50.633
14	1234789-HpCDF	40.87	1.144e5	1.137e5	0.953	1.01	1.05	645.6	YES	NO	bd	bb	53.672
15	1234678-HpCDF	38.65	1.370e5	1.240e5	1.003	1.11	1.05	827.4	YES	NO	bd	bb	52.782
16	OCDF	45.06	1.713e5	1.931e5	0.778	0.89	0.89	895.2	YES	NO	bb	bb	100.943
17	13468-PECDF	27.02	2.494e5	1.653e5	1.246	1.51	1.55	4317.6	YES	NO	bb	bb	45.444

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.99	4.269e4	5.250e4	1.024	0.81	0.77	309.9	YES	NO	bb	bb	14.692
2	Total-tetradioxins	25.51	1.285e4	1.703e4	1.024	0.75	0.77	139.2	YES	NO	bb	bb	4.612
3	1368-TCDD	23.44	2.829e4	3.576e4	1.015	0.79	0.77	321.9	YES	NO	bb	bb	9.973
4	1289-TCDD	26.90	2.505e4	3.016e4	0.909	0.83	0.77	257.4	YES	NO	bd	bd	9.604
5	2378-TCDD	26.31	2.905e4	3.664e4	1.149	0.79	0.77	319.7	YES	NO	bb	bb	9.040

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.81	1.548e5	1.029e5	1.184	1.50	1.55	1249.4	YES	NO	bb	bb	47.240
2	12378-PeCDD	31.42	1.452e5	9.805e4	1.022	1.48	1.55	1168.5	YES	NO	bb	bb	51.645
3	12479-PECDD	28.70	2.410e5	1.554e5	2.301	1.55	1.55	1231.3	YES	NO	bb	bb	37.361

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.41	1.411e5	1.062e5	0.907	1.33	1.24	919.0	YES	NO	bd	bb	51.934
2	123678-HxCDD	36.02	1.464e5	1.208e5	1.001	1.21	1.24	1005.2	YES	NO	db	db	46.949
3	123478-HxCDD	35.91	1.271e5	1.034e5	0.996	1.23	1.24	942.4	YES	NO	bd	bd	48.094
4	124679-HXCDD	33.89	1.385e5	1.083e5	1.115	1.28	1.24	934.7	YES	NO	bb	bb	45.966

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.14	1.214e5	1.131e5	1.039	1.07	1.05	698.4	YES	NO	bd	bd	54.815
2	Total-heptadioxins	39.67	1.621e2	1.542e2	1.088	1.05	1.05	2.5	NO	NO	bb	bb	0.071
3	1234679-HPCDD	39.10	1.301e5	1.157e5	1.137	1.12	1.05	809.9	YES	NO	bd	bb	52.509

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.99	4.269e4	5.250e4	1.024	0.81	0.77	309.9	YES	NO	bb	bb	14.692
2	Total-tetradioxins	25.51	1.285e4	1.703e4	1.024	0.75	0.77	139.2	YES	NO	bb	bb	4.612
3	1368-TCDD	23.44	2.829e4	3.576e4	1.015	0.79	0.77	321.9	YES	NO	bb	bb	9.973
4	1289-TCDD	26.90	2.505e4	3.016e4	0.909	0.83	0.77	257.4	YES	NO	bd	bd	9.604
5	2378-TCDD	26.31	2.905e4	3.664e4	1.149	0.79	0.77	319.7	YES	NO	bb	bb	9.040
6	12389-PECDD	31.81	1.548e5	1.029e5	1.184	1.50	1.55	1249.4	YES	NO	bb	bb	47.240
7	12378-PeCDD	31.42	1.452e5	9.805e4	1.022	1.48	1.55	1168.5	YES	NO	bb	bb	51.645
8	12479-PECDD	28.70	2.410e5	1.554e5	2.301	1.55	1.55	1231.3	YES	NO	bb	bb	37.361
9	123789-HxCDD	36.41	1.411e5	1.062e5	0.907	1.33	1.24	919.0	YES	NO	bd	bb	51.934
10	123678-HxCDD	36.02	1.464e5	1.208e5	1.001	1.21	1.24	1005.2	YES	NO	db	db	46.949
11	123478-HxCDD	35.91	1.271e5	1.034e5	0.996	1.23	1.24	942.4	YES	NO	bd	bd	48.094
12	124679-HXCDD	33.89	1.385e5	1.083e5	1.115	1.28	1.24	934.7	YES	NO	bb	bb	45.966
13	1234678-HpCDD	40.14	1.214e5	1.131e5	1.039	1.07	1.05	698.4	YES	NO	bd	bd	54.815
14	Total-heptadioxins	39.67	1.621e2	1.542e2	1.088	1.05	1.05	2.5	NO	NO	bb	bb	0.071
15	1234679-HPCDD	39.10	1.301e5	1.157e5	1.137	1.12	1.05	809.9	YES	NO	bd	bb	52.509
16	OCDD	44.82	1.928e5	2.209e5	0.920	0.87	0.89	920.4	YES	NO	bb	bb	96.897

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.66	2.833e4	3.785e4	0.702	0.75	0.77	430.5	YES	NO	bb	bb	11.029
2	Total-tetrafurans	23.99	2.198e2	3.057e2	0.727	0.72	0.77	4.9	YES	NO	db	bb	0.085
3	1368-TCDF	22.17	3.392e4	4.563e4	0.802	0.74	0.77	553.0	YES	NO	bb	bb	11.606
4	23478-PeCDF	31.16	1.683e5	1.101e5	0.786	1.53	1.55	938.5	YES	NO	bb	bb	52.067
5	12378-PeCDF	29.82	1.642e5	1.070e5	0.679	1.53	1.55	910.1	YES	NO	bb	bb	54.526
6	Total-pentafurans	28.67	2.684e4	1.639e4	0.654	1.64	1.55	147.3	YES	NO	bb	bb	9.363
7	1289-TCDF	27.16	2.437e4	3.410e4	0.678	0.71	0.77	378.0	YES	NO	bb	db	10.084
8	234678-HxCDF	35.78	1.741e5	1.362e5	1.140	1.28	1.24	837.2	YES	NO	bd	bb	47.512
9	123678-HxCDF	34.91	1.875e5	1.640e5	1.091	1.14	1.24	882.1	YES	NO	db	db	48.827
10	123478-HxCDF	34.78	1.628e5	1.320e5	1.166	1.23	1.24	838.2	YES	NO	bd	bd	47.041
11	123468-HXCDF	33.11	1.681e5	1.343e5	1.169	1.25	1.24	826.7	YES	NO	bb	bb	48.130
12	12389-PECDF	32.20	1.495e5	9.683e4	0.496	1.54	1.55	783.0	YES	NO	bb	bb	67.771
13	123789-HxCDF	36.81	1.434e5	1.256e5	1.137	1.14	1.24	675.2	YES	NO	bb	bb	50.633
14	1234789-HpCDF	40.87	1.144e5	1.137e5	0.953	1.01	1.05	645.6	YES	NO	bd	bb	53.672
15	1234678-HpCDF	38.65	1.370e5	1.240e5	1.003	1.11	1.05	827.4	YES	NO	bd	bb	52.782
16	OCDF	45.06	1.713e5	1.931e5	0.778	0.89	0.89	895.2	YES	NO	bb	bb	100.943
17	13468-PECDF	27.02	2.494e5	1.653e5	1.246	1.51	1.55	4317.6	YES	NO	bb	bb	45.444
18	Total-tetradioxins	25.99	4.269e4	5.250e4	1.024	0.81	0.77	309.9	YES	NO	bb	bb	14.692
19	Total-tetradioxins	25.51	1.285e4	1.703e4	1.024	0.75	0.77	139.2	YES	NO	bb	bb	4.612
20	1368-TCDD	23.44	2.829e4	3.576e4	1.015	0.79	0.77	321.9	YES	NO	bb	bb	9.973
21	1289-TCDD	26.90	2.505e4	3.016e4	0.909	0.83	0.77	257.4	YES	NO	bd	bd	9.604
22	2378-TCDD	26.31	2.905e4	3.664e4	1.149	0.79	0.77	319.7	YES	NO	bb	bb	9.040
23	12389-PECDD	31.81	1.548e5	1.029e5	1.184	1.50	1.55	1249.4	YES	NO	bb	bb	47.240
24	12378-PeCDD	31.42	1.452e5	9.805e4	1.022	1.48	1.55	1168.5	YES	NO	bb	bb	51.645
25	12479-PECDD	28.70	2.410e5	1.554e5	2.301	1.55	1.55	1231.3	YES	NO	bb	bb	37.361
26	123789-HxCDD	36.41	1.411e5	1.062e5	0.907	1.33	1.24	919.0	YES	NO	bd	bb	51.934
27	123678-HxCDD	36.02	1.464e5	1.208e5	1.001	1.21	1.24	1005.2	YES	NO	db	db	46.949
28	123478-HxCDD	35.91	1.271e5	1.034e5	0.996	1.23	1.24	942.4	YES	NO	bd	bd	48.094
29	124679-HXCDD	33.89	1.385e5	1.083e5	1.115	1.28	1.24	934.7	YES	NO	bb	bb	45.966
30	1234678-HpCDD	40.14	1.214e5	1.131e5	1.039	1.07	1.05	698.4	YES	NO	bd	bd	54.815
31	Total-heptadioxins	39.67	1.621e2	1.542e2	1.088	1.05	1.05	2.5	NO	NO	bb	bb	0.071
32	1234679-HPCDD	39.10	1.301e5	1.157e5	1.137	1.12	1.05	809.9	YES	NO	bd	bb	52.509
33	OCDD	44.82	1.928e5	2.209e5	0.920	0.87	0.89	920.4	YES	NO	bb	bb	96.897

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.22	2.429e4					1.4	NO		bb		
2	FUNCTION1 PFK	23.39	1.595e3					0.5	NO		db		
3	FUNCTION1 PFK	23.34	3.170e3					0.6	NO		bd		
4	FUNCTION1 PFK	23.25	1.690e4					2.0	NO		bb		
5	FUNCTION1 PFK	22.71	6.558e3					1.0	NO		bb		
6	FUNCTION1 PFK	22.55	2.929e3					0.6	NO		bb		
7	FUNCTION1 PFK	22.23	2.749e3					0.6	NO		bb		
8	FUNCTION1 PFK	22.16	1.798e4					1.2	NO		bb		
9	FUNCTION1 PFK	27.89	1.093e3					0.4	NO		bb		
10	FUNCTION1 PFK	27.65	1.387e4					1.4	NO		db		
11	FUNCTION1 PFK	27.55	1.835e4					1.3	NO		bd		
12	FUNCTION1 PFK	26.49	4.792e3					0.7	NO		bb		
13	FUNCTION1 PFK	26.37	6.824e3					0.9	NO		bb		
14	FUNCTION1 PFK	26.33	1.226e3					0.5	NO		bb		
15	FUNCTION1 PFK	25.96	9.664e3					1.1	NO		bb		
16	FUNCTION1 PFK	25.49	1.043e3					0.4	NO		bb		
17	FUNCTION1 PFK	25.10	4.537e3					0.7	NO		bb		
18	FUNCTION1 PFK	24.60	1.489e4					1.1	NO		db		
19	FUNCTION1 PFK	24.49	1.324e4					1.4	NO		bd		
20	FUNCTION1 PFK	24.29	1.094e3					0.4	NO		bb		

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.50	4.136e3					1.3	NO		bd		0.000
2	FUNCTION2 PFK	29.09	3.921e3					1.2	NO		bb		0.000
3	FUNCTION2 PFK	28.31	7.596e5					13.8	YES		bb		0.000
4	FUNCTION2 PFK	32.69	2.528e3					0.9	NO		db		0.000
5	FUNCTION2 PFK	32.65	9.250e2					0.6	NO		bd		0.000
6	FUNCTION2 PFK	32.38	5.159e2					0.4	NO		bb		0.000
7	FUNCTION2 PFK	32.13	2.221e3					0.9	NO		bb		0.000
8	FUNCTION2 PFK	31.97	2.641e3					1.0	NO		bb		0.000
9	FUNCTION2 PFK	31.92	2.615e3					1.0	NO		bb		0.000
10	FUNCTION2 PFK	31.00	1.370e3					0.7	NO		bb		0.000
11	FUNCTION2 PFK	30.29	5.611e3					1.4	NO		db		0.000
12	FUNCTION2 PFK	30.20	1.006e4					1.6	NO		bd		0.000
13	FUNCTION2 PFK	30.11	2.084e3					0.7	NO		bb		0.000
14	FUNCTION2 PFK	30.06	2.666e3					1.1	NO		bb		0.000
15	FUNCTION2 PFK	29.97	9.710e2					0.8	NO		bb		0.000
16	FUNCTION2 PFK	29.89	4.635e2					0.4	NO		bb		0.000
17	FUNCTION2 PFK	29.86	5.619e2					0.5	NO		bb		0.000
18	FUNCTION2 PFK	29.76	3.692e3					1.4	NO		bb		0.000
19	FUNCTION2 PFK	29.53	4.722e3					1.6	NO		db		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.20	6.042e3					1.5	NO		bb		0.000
2	FUNCTION3 PFK	33.23	1.798e4					2.7	NO		bb		0.000
3	FUNCTION3 PFK	32.87	1.674e4					3.0	NO		bb		0.000

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.35	5.806e3					1.5	NO		bb		
2	FUNCTION4 PFK	39.17	2.454e3					1.0	NO		bb		
3	FUNCTION4 PFK	39.01	1.382e4					1.5	NO		bb		
4	FUNCTION4 PFK	38.96	8.035e2					0.5	NO		bb		
5	FUNCTION4 PFK	38.51	7.936e3					1.5	NO		db		
6	FUNCTION4 PFK	38.47	2.410e3					0.8	NO		bd		
7	FUNCTION4 PFK	38.30	2.244e3					0.8	NO		bb		
8	FUNCTION4 PFK	38.23	6.389e3					1.4	NO		bb		
9	FUNCTION4 PFK	38.18	9.474e3					1.7	NO		bb		
10	FUNCTION4 PFK	37.97	6.614e3					1.9	NO		bb		
11	FUNCTION4 PFK	37.91	2.830e3					0.9	NO		bb		
12	FUNCTION4 PFK	41.67	4.090e3					1.3	NO		db		
13	FUNCTION4 PFK	41.63	5.393e3					1.2	NO		bd		
14	FUNCTION4 PFK	41.41	3.945e3					1.2	NO		bb		
15	FUNCTION4 PFK	41.20	1.135e4					1.8	NO		bb		
16	FUNCTION4 PFK	40.99	3.929e3					1.1	NO		bb		
17	FUNCTION4 PFK	40.82	7.332e3					1.3	NO		bb		
18	FUNCTION4 PFK	40.68	6.838e2					0.4	NO		bb		
19	FUNCTION4 PFK	40.37	8.156e2					0.4	NO		db		
20	FUNCTION4 PFK	40.33	4.038e3					1.3	NO		dd		
21	FUNCTION4 PFK	40.29	7.026e3					1.8	NO		bd		
22	FUNCTION4 PFK	40.13	8.300e3					1.5	NO		db		
23	FUNCTION4 PFK	40.06	3.488e3					1.0	NO		bd		
24	FUNCTION4 PFK	40.01	3.303e3					1.1	NO		db		
25	FUNCTION4 PFK	39.97	4.549e3					1.2	NO		bd		
26	FUNCTION4 PFK	39.49	1.325e3					0.6	NO		db		
27	FUNCTION4 PFK	39.46	1.441e3					0.6	NO		bd		
28	FUNCTION4 PFK	42.91	1.561e4					1.9	NO		db		
29	FUNCTION4 PFK	42.81	8.663e2					0.5	NO		bd		
30	FUNCTION4 PFK	42.77	6.177e2					0.4	NO		bb		
31	FUNCTION4 PFK	42.69	3.302e3					0.9	NO		bb		
32	FUNCTION4 PFK	42.56	1.632e4					2.2	NO		db		
33	FUNCTION4 PFK	42.45	1.486e4					2.2	NO		bd		
34	FUNCTION4 PFK	42.08	8.282e2					0.5	NO		bb		
35	FUNCTION4 PFK	41.88	6.700e3					1.5	NO		db		
36	FUNCTION4 PFK	41.83	3.705e3					1.2	NO		bd		
37	FUNCTION4 PFK	41.72	4.664e3					1.3	NO		bb		

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.80	9.468e1					3.6	YES		bb		0.000
2	FUNCTION1 HXCD...	24.73	1.625e2					3.8	YES		bb		0.000
3	FUNCTION1 HXCD...	23.97	3.182e2					8.0	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.82	7.326e1					2.6	NO		bb		0.000
2	FUNCTION2 HPCD...	31.52	9.804e1					2.4	NO		bb		0.000
3	FUNCTION2 HPCD...	31.03	1.556e2					3.7	YES		bb		0.000
4	FUNCTION2 HPCD...	29.72	8.539e1					2.8	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	33.23	1.152e2					2.9	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.00	1.143e2					7.1	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.48	7.330e1					2.3	NO		bb		0.000

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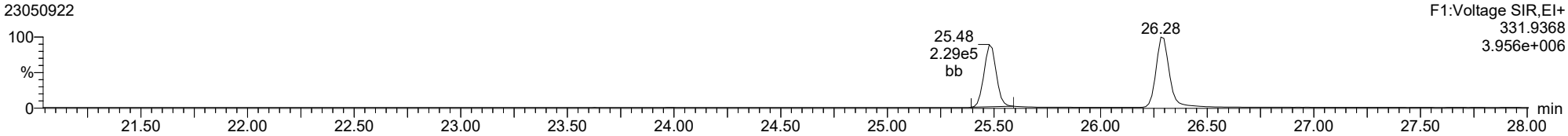
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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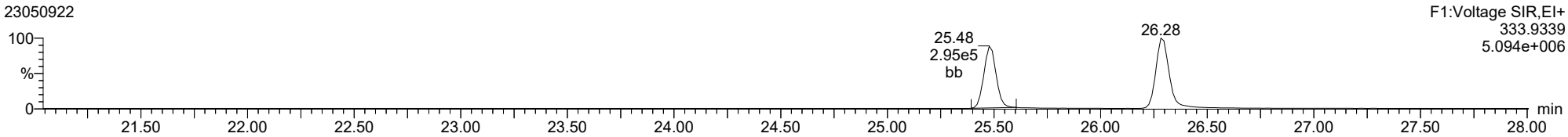

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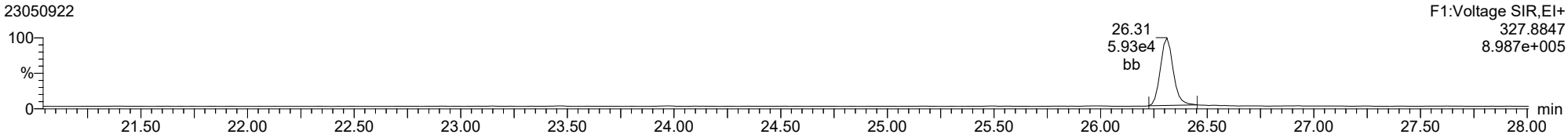

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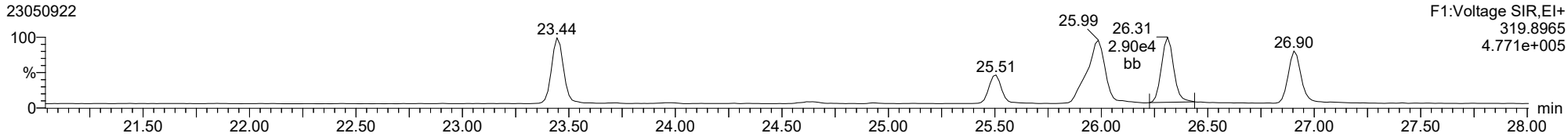
2378-TCDD



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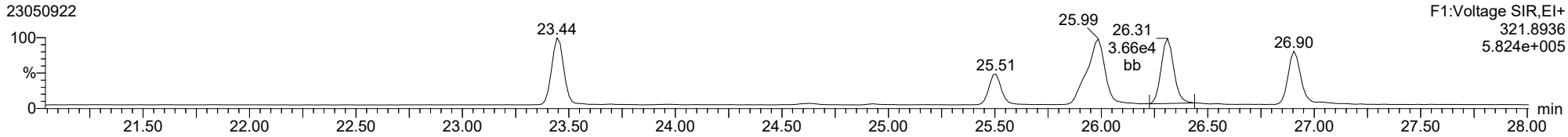

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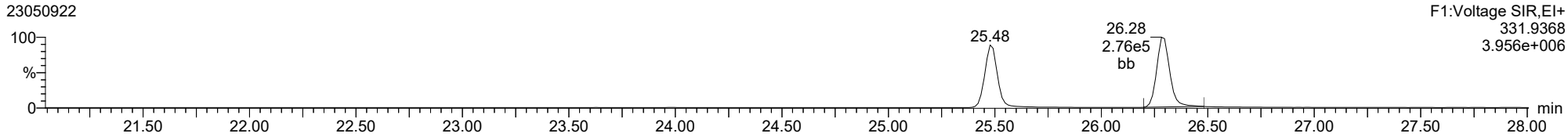

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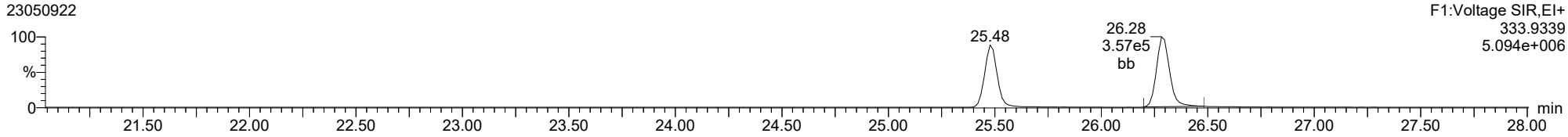

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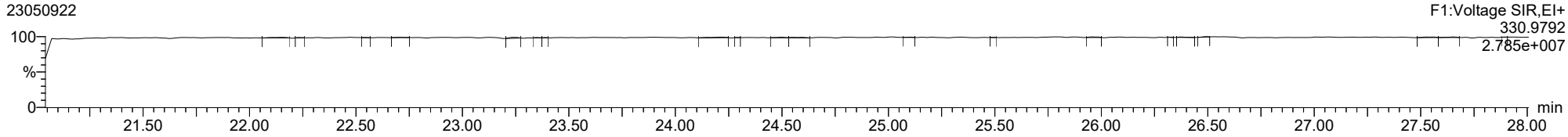
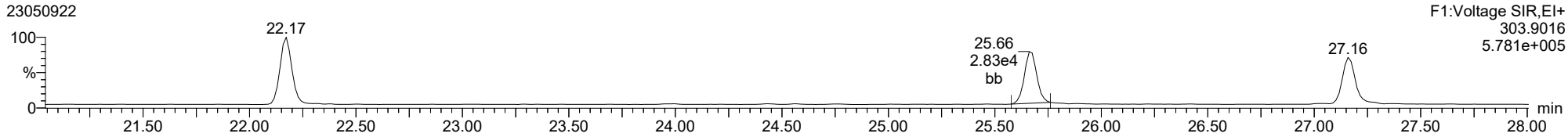


ID: CS3K6, Name: 23050922, Date: 10-May-2023, Time: 06:11:05, Conditions: AUTOSPEC01, User: pk

2378-TCDF



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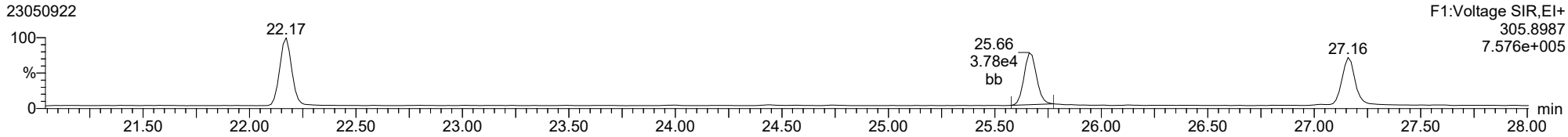

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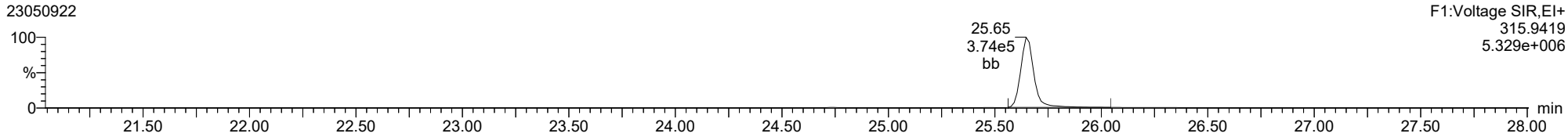

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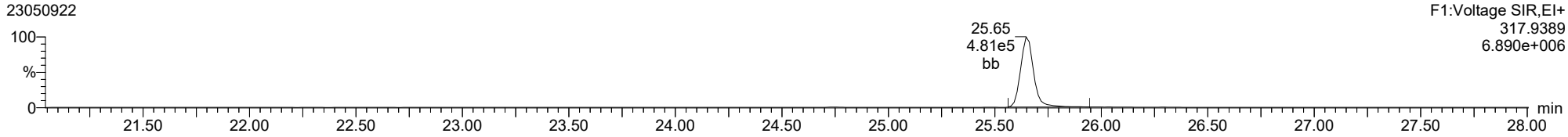

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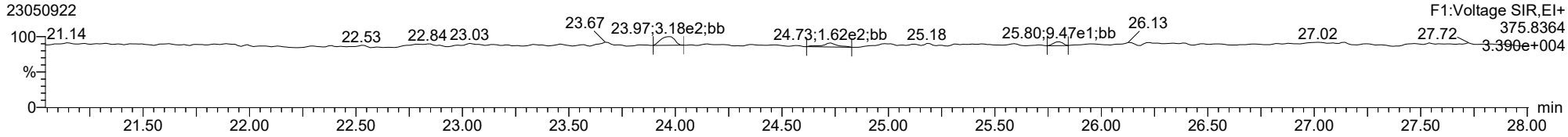

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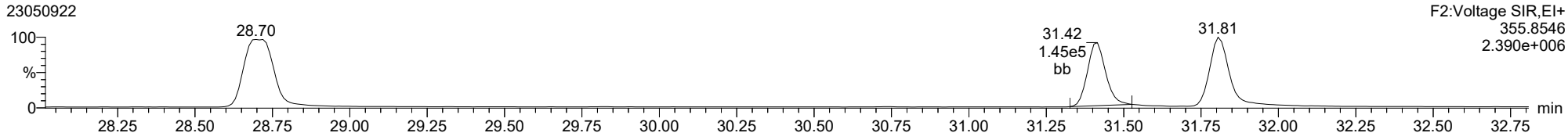

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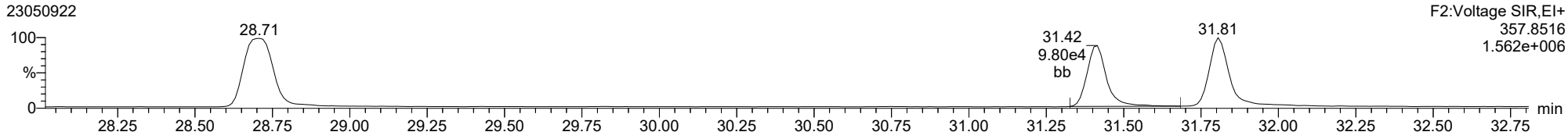

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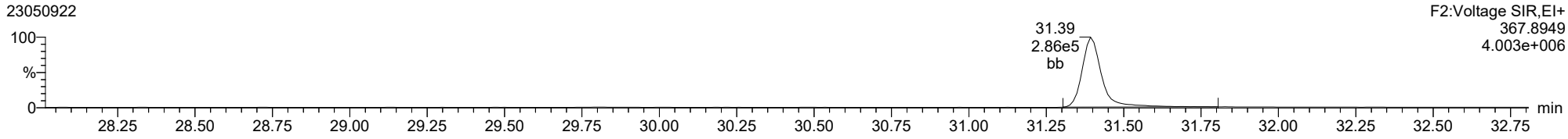

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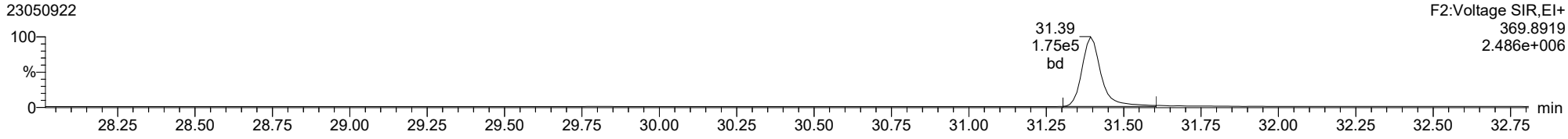

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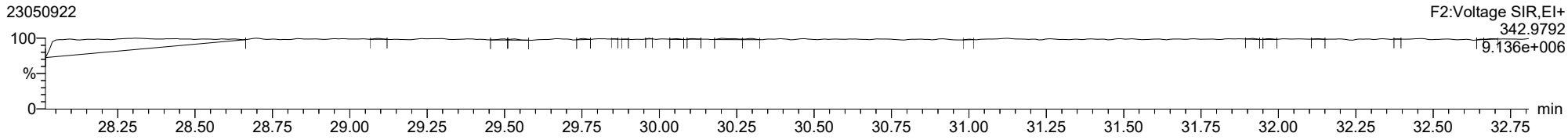

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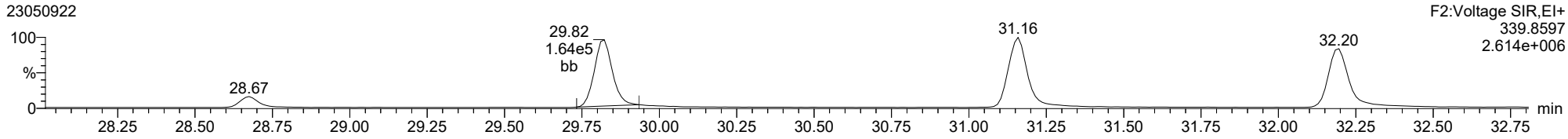

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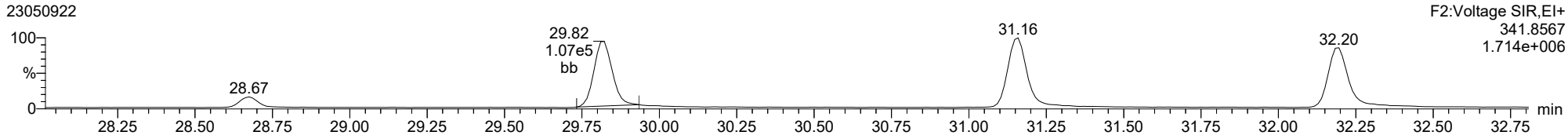

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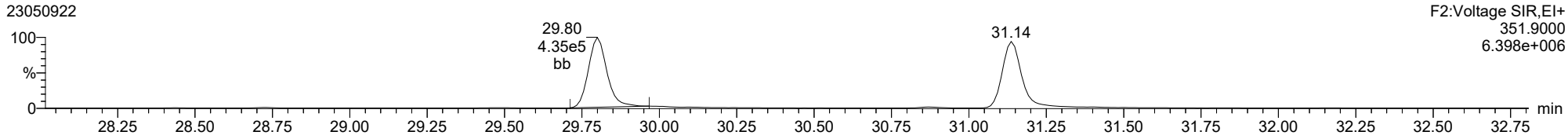

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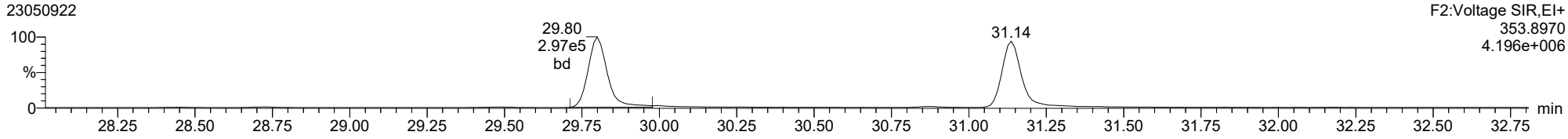

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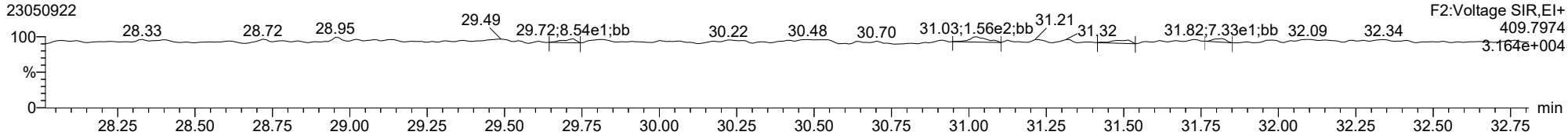

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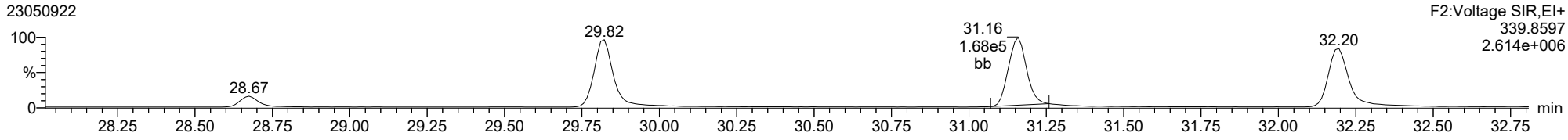

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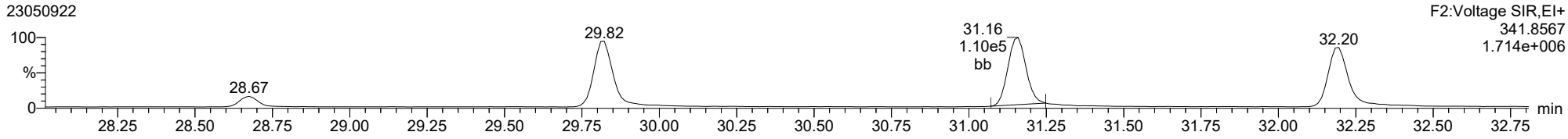

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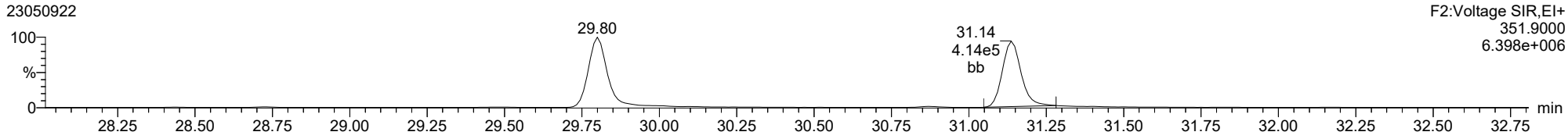

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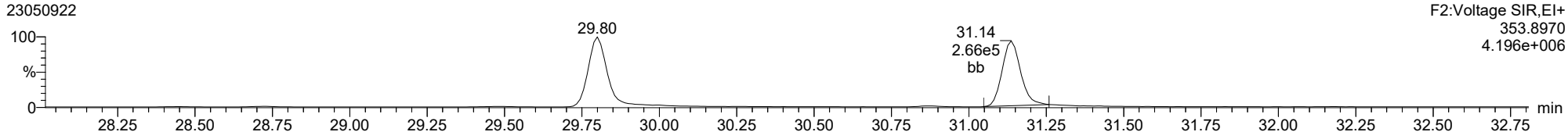

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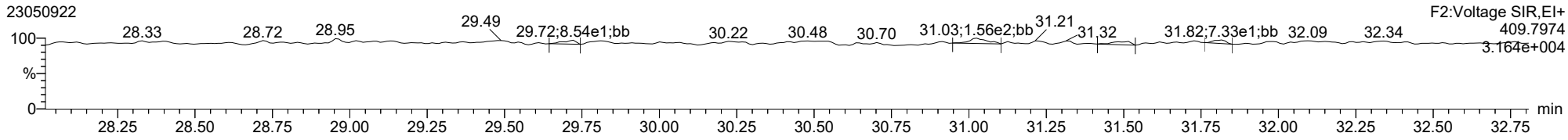

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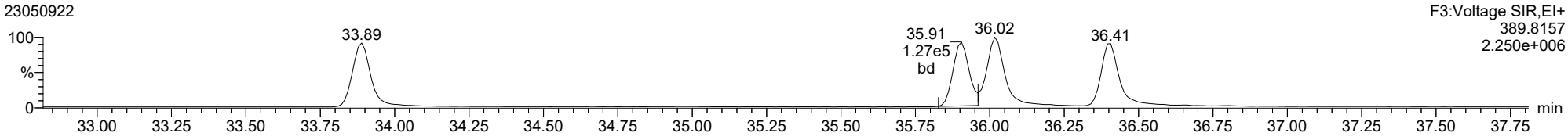

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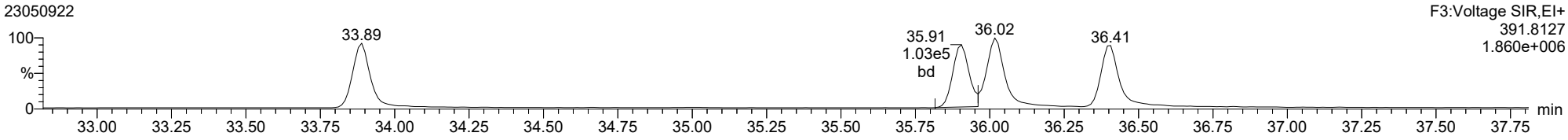

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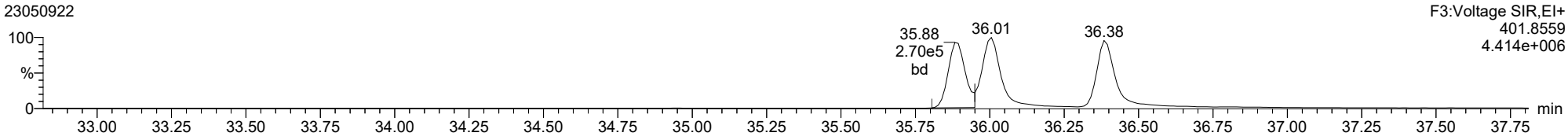

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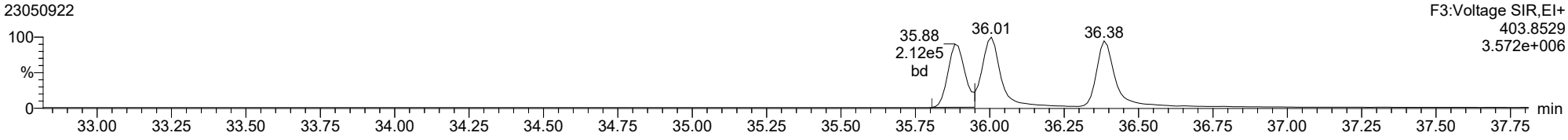

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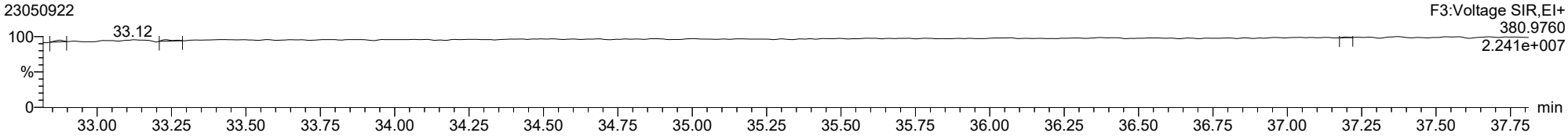

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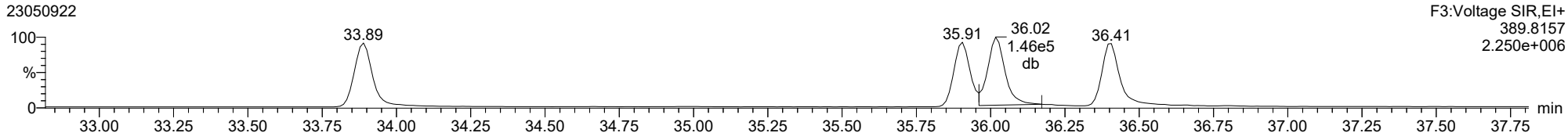

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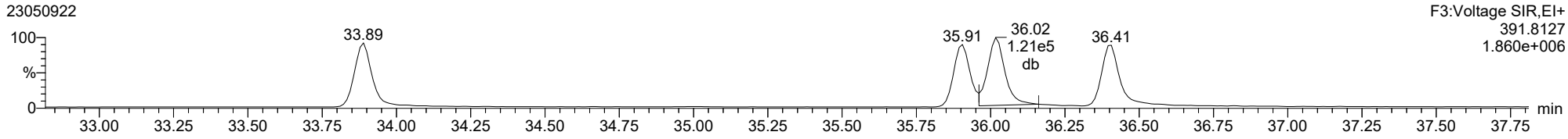

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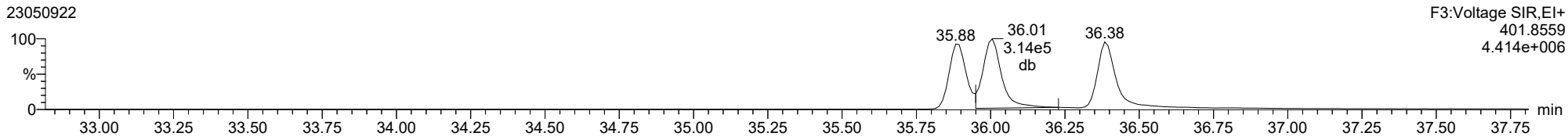

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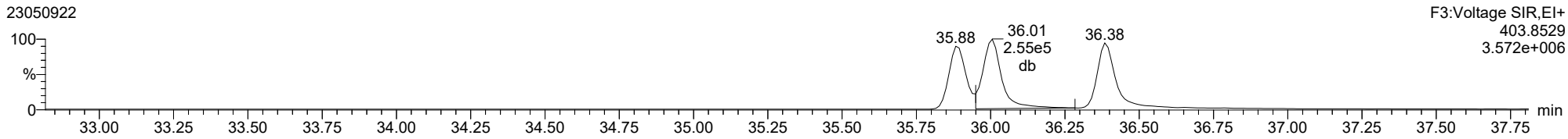

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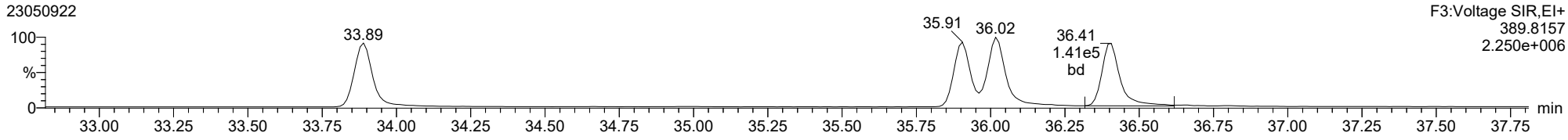

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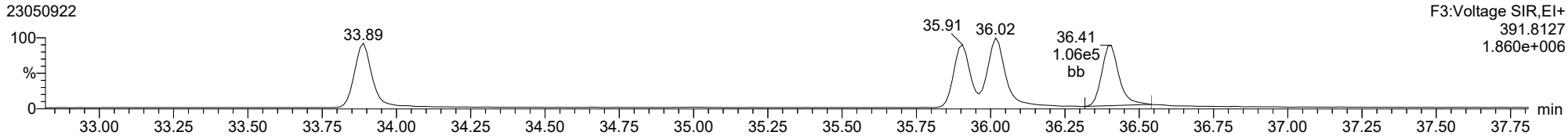

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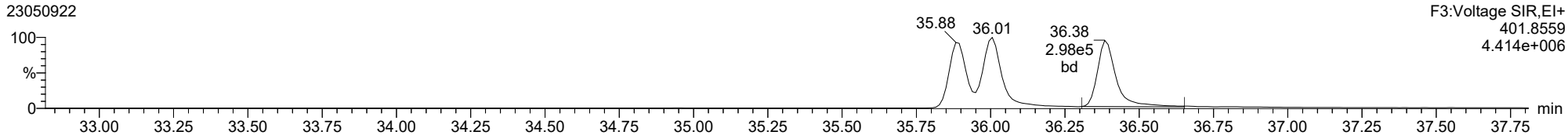

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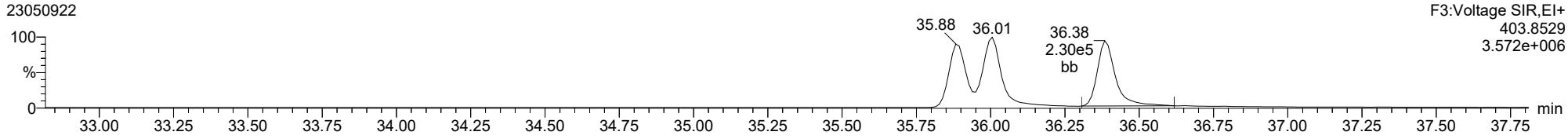

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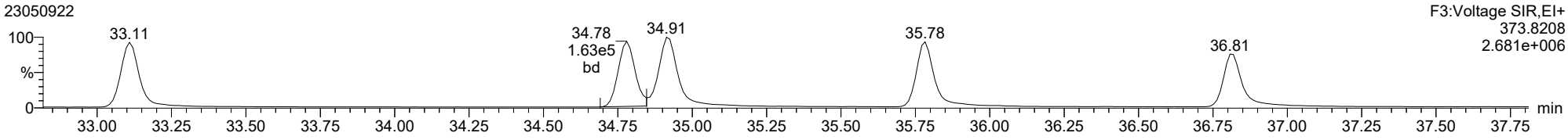

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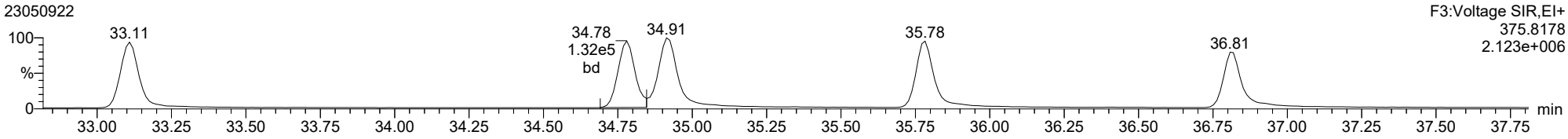

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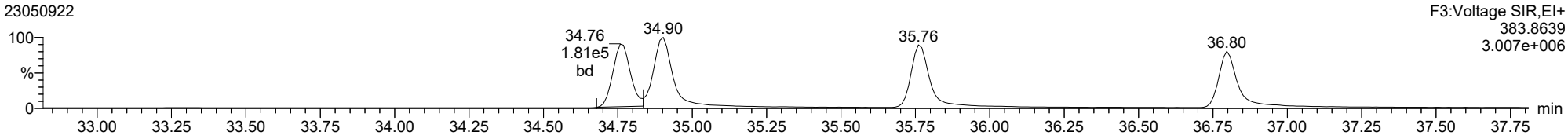

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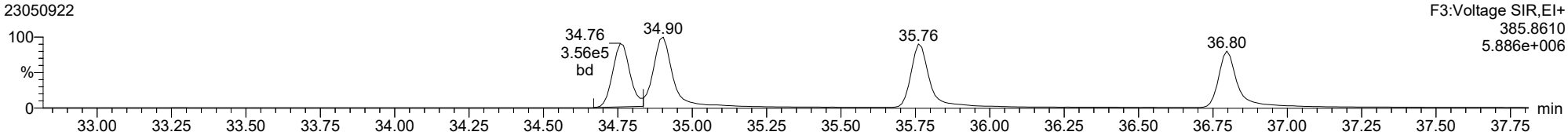

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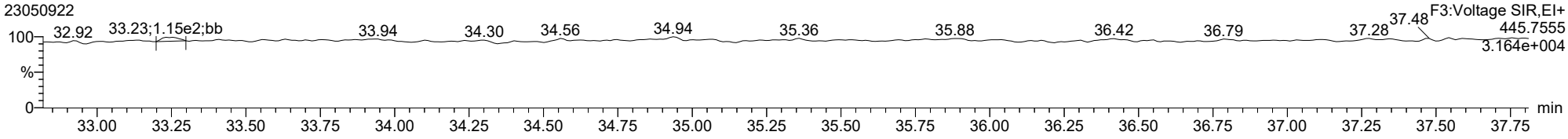

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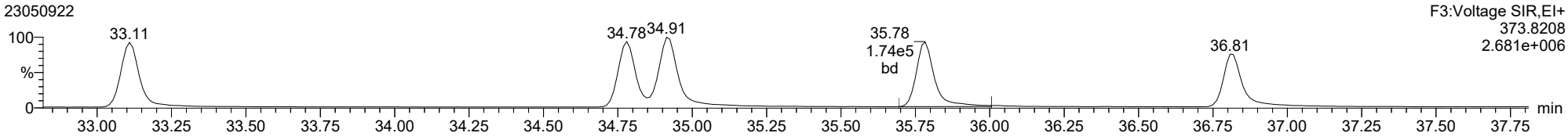
234678-HxCDF



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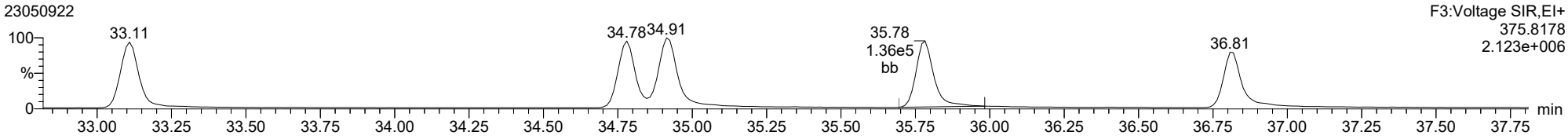

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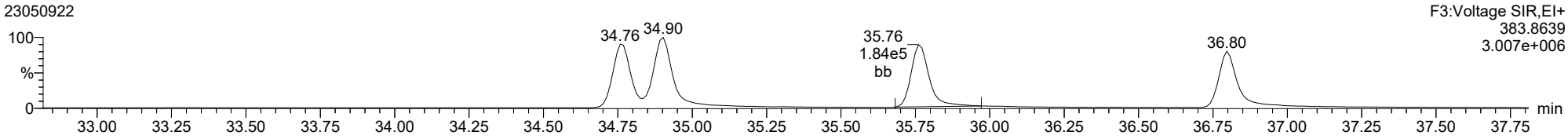

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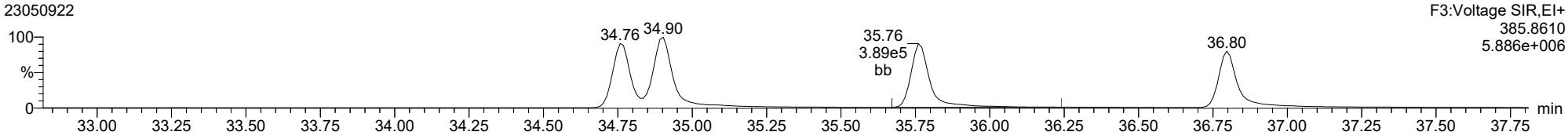

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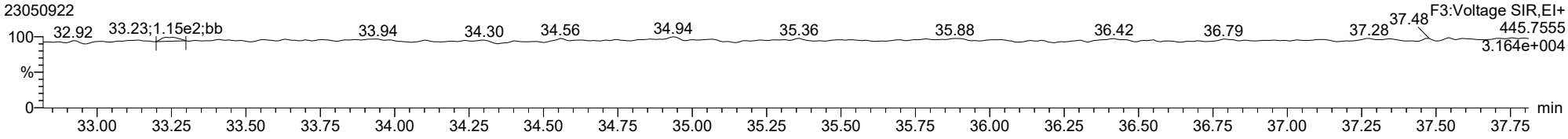

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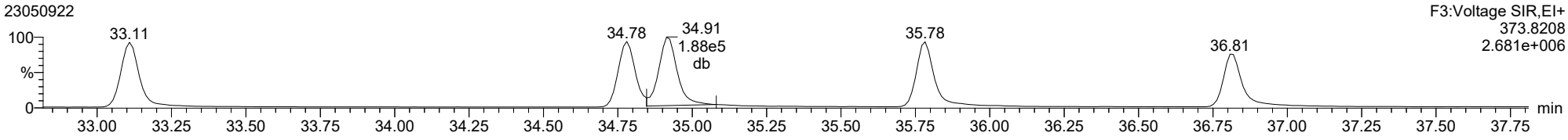

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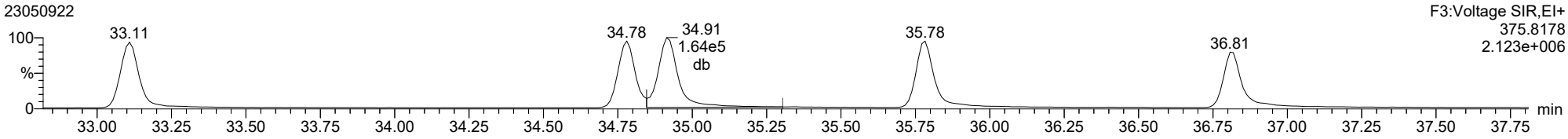

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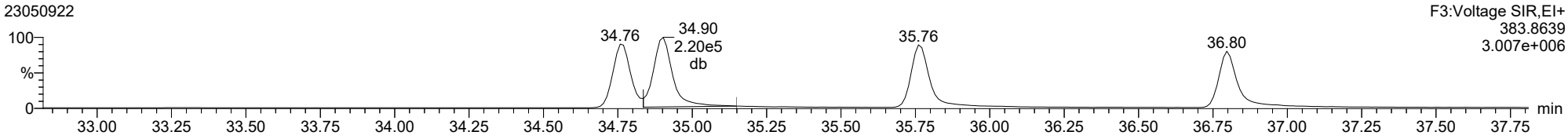

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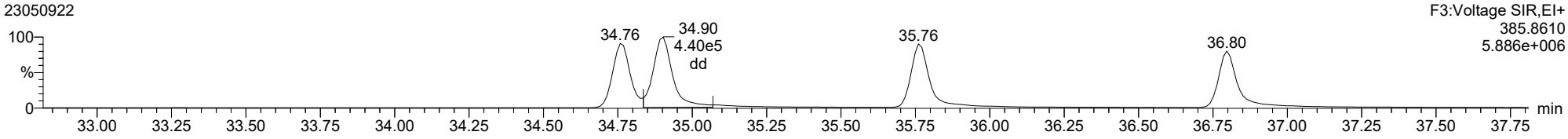

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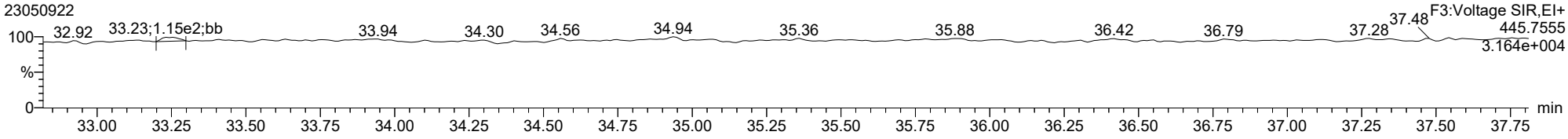

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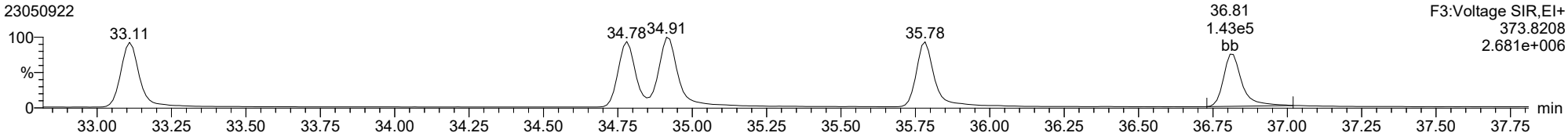

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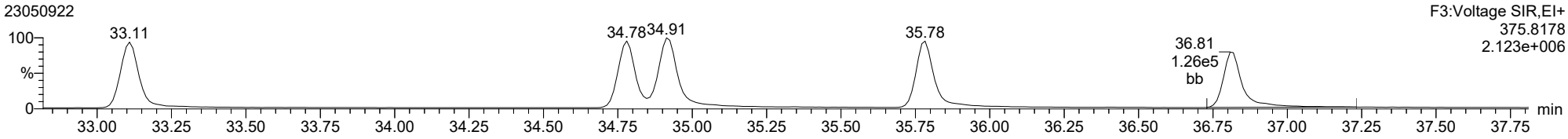

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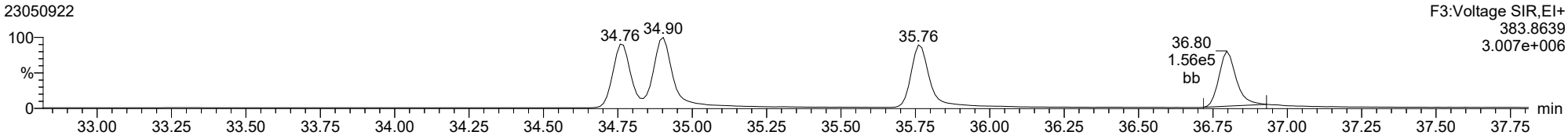

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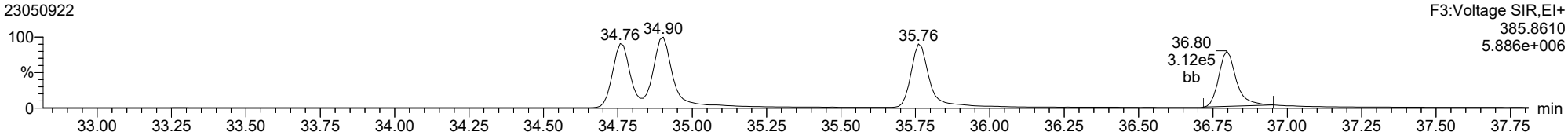

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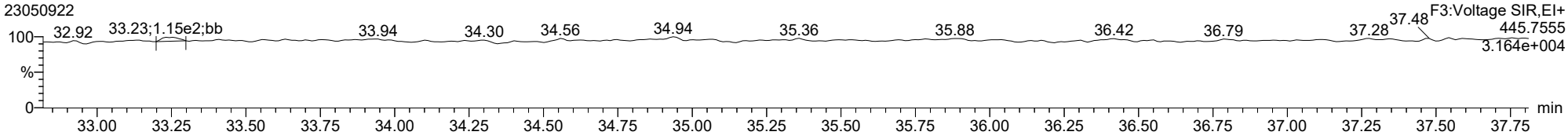

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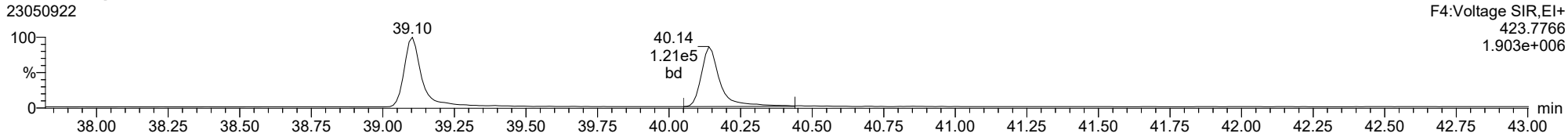

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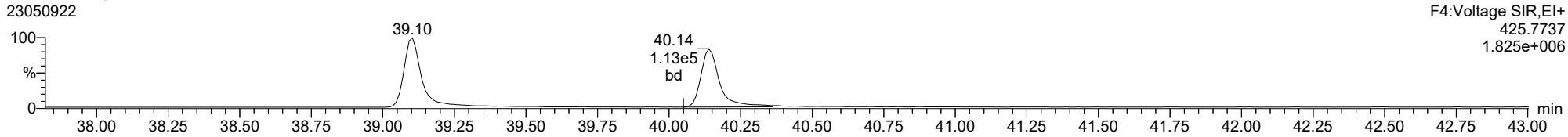

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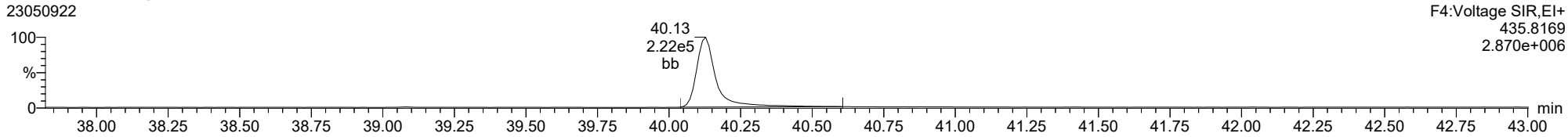

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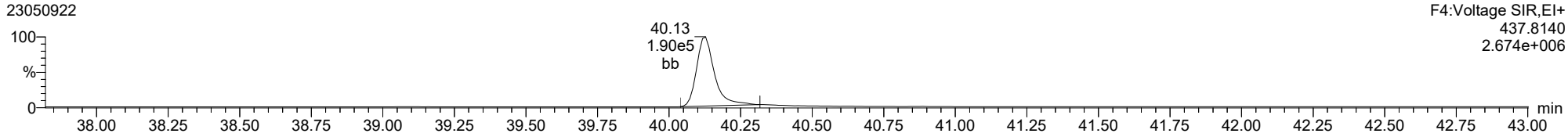

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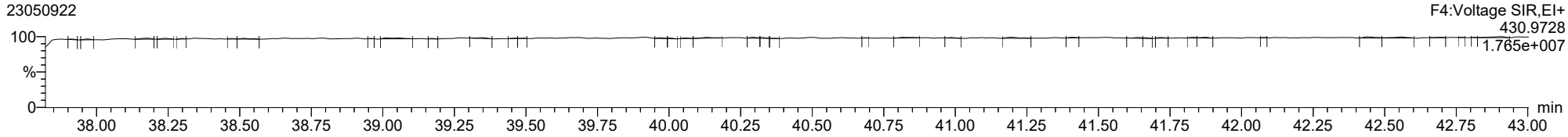

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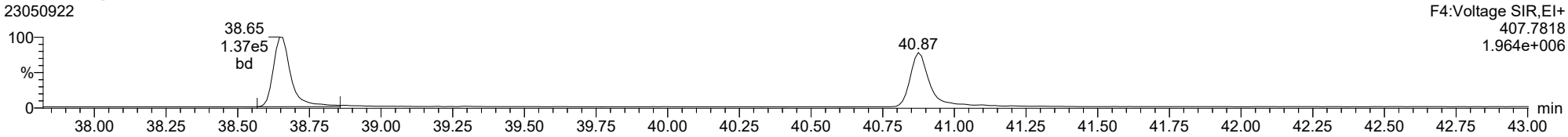

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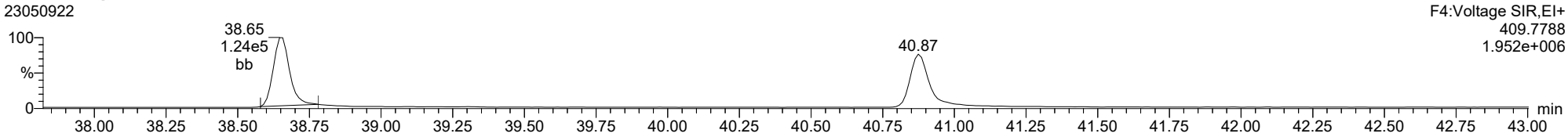

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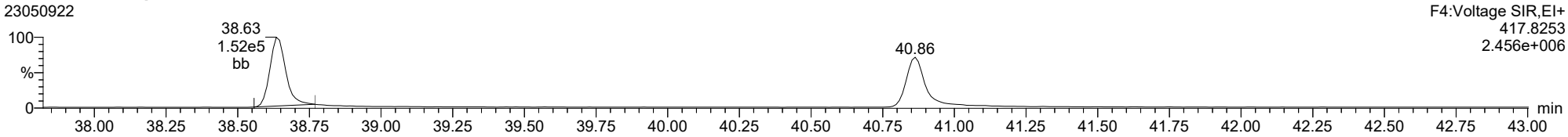

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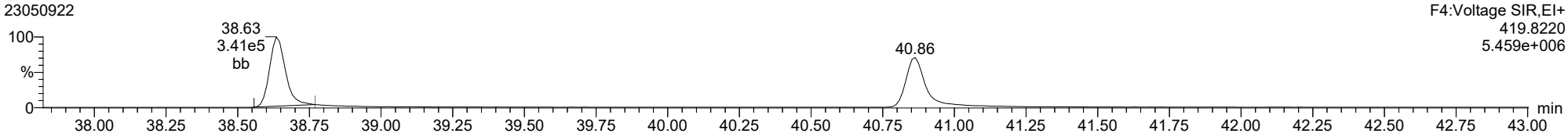

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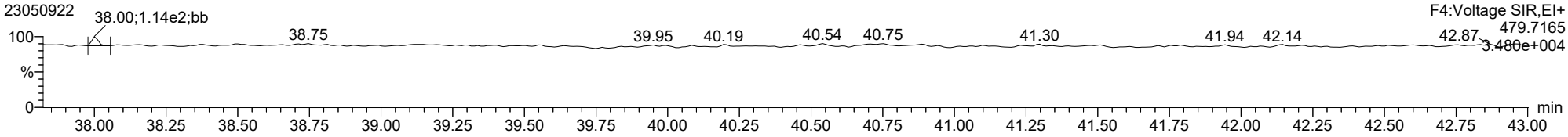

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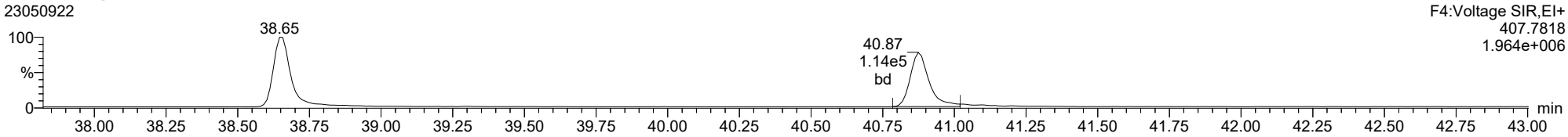

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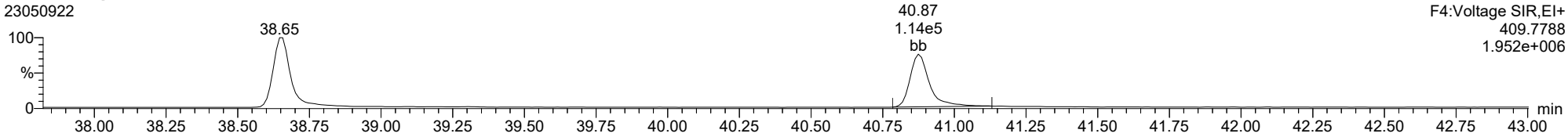

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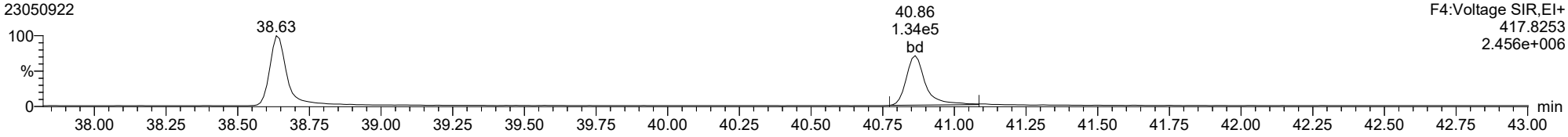

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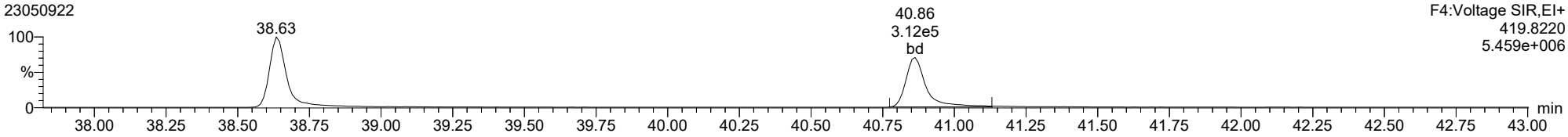

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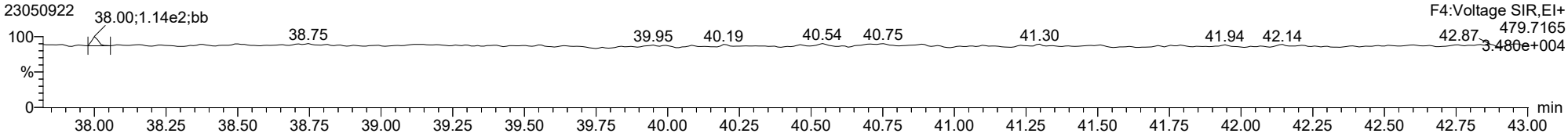

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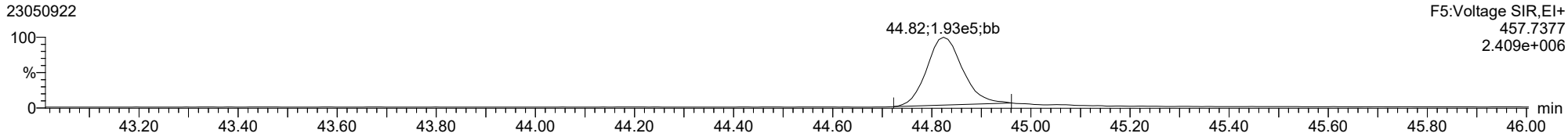

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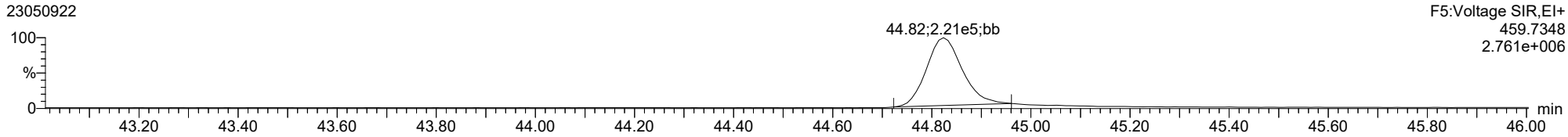

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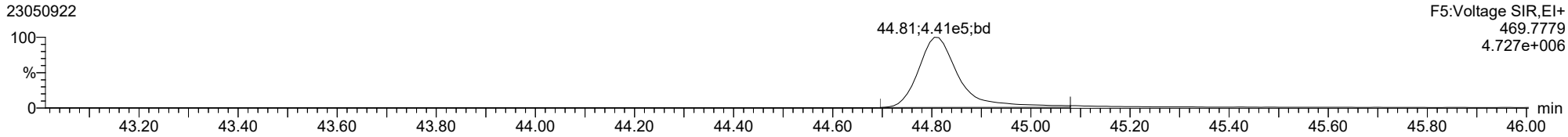

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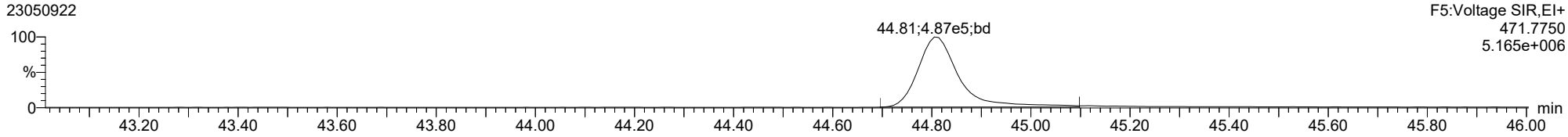

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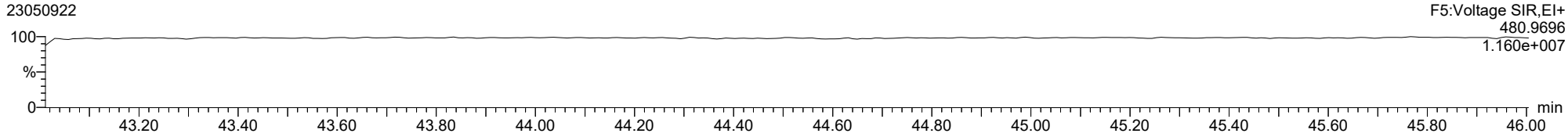

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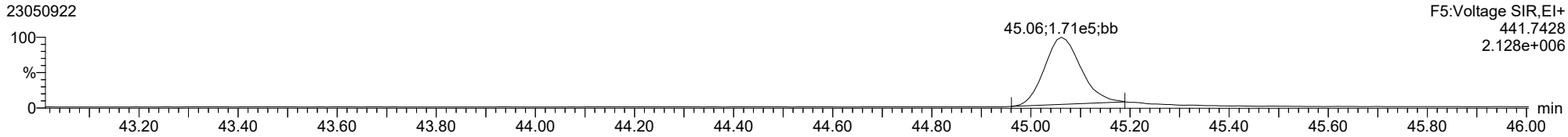

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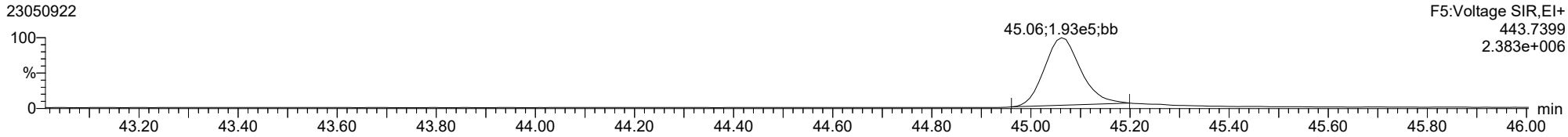

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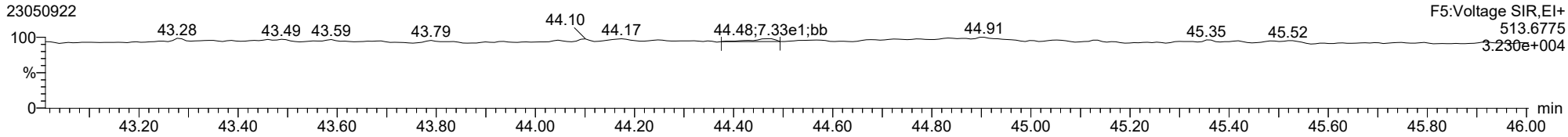

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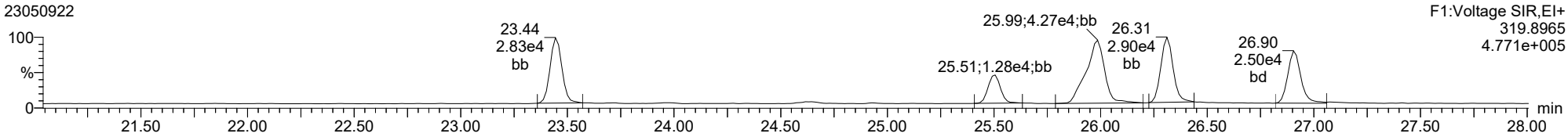

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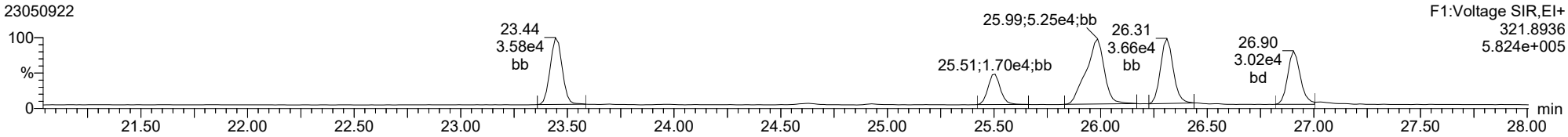

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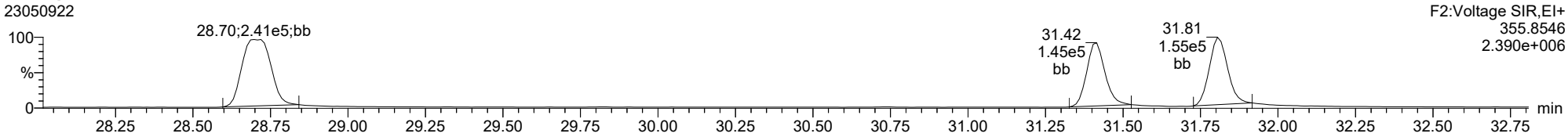

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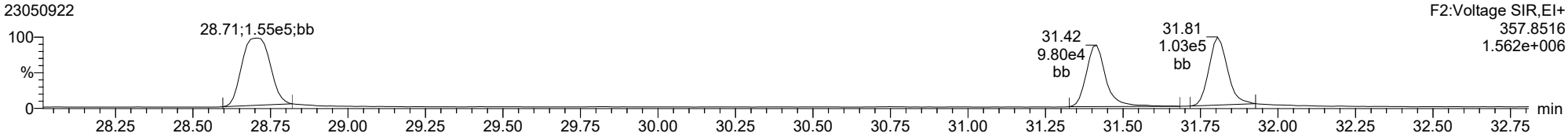

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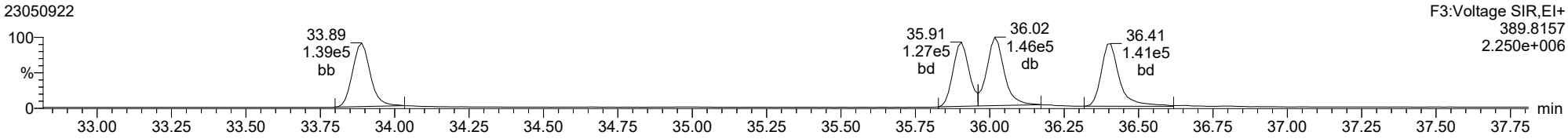

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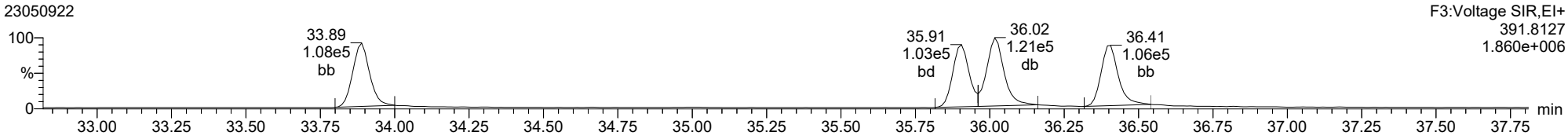

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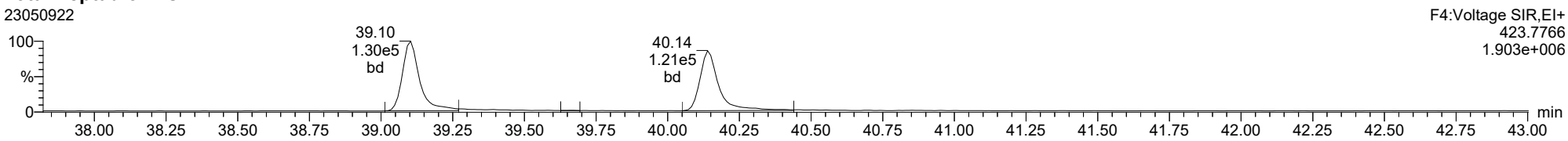

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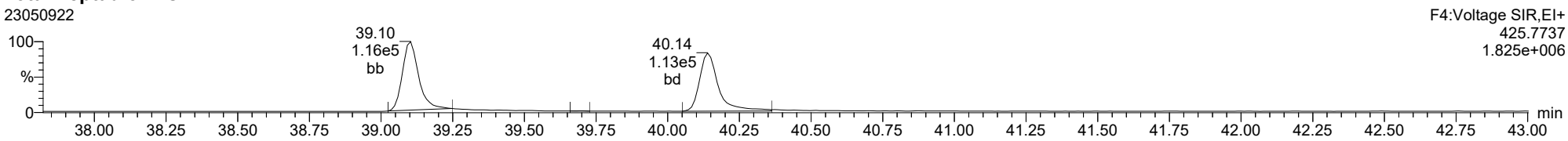

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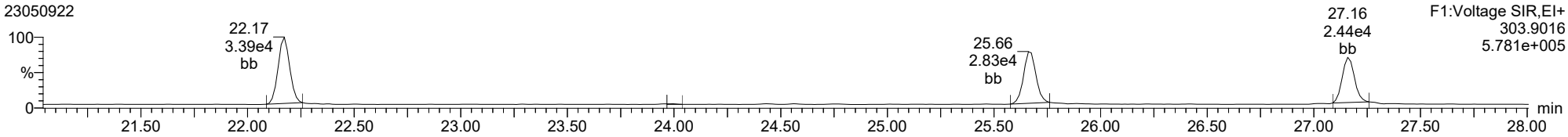
Total-tetrafurans



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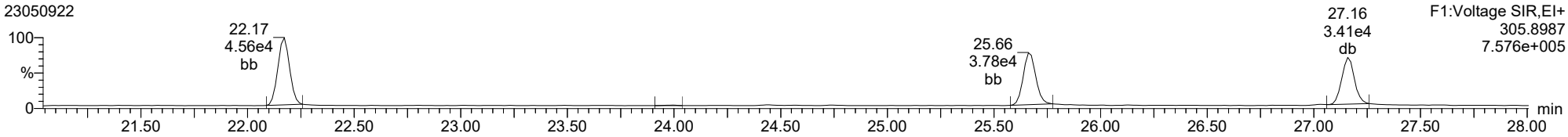

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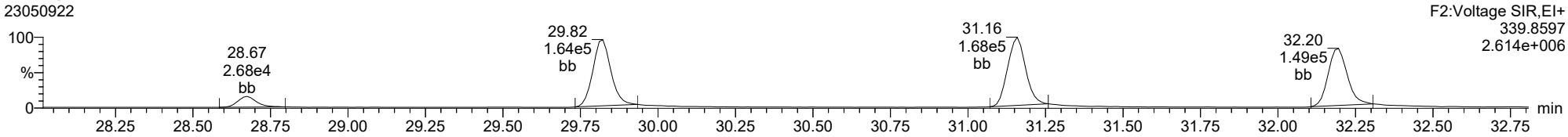

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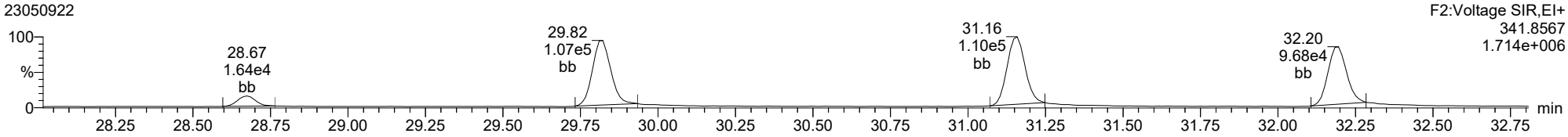

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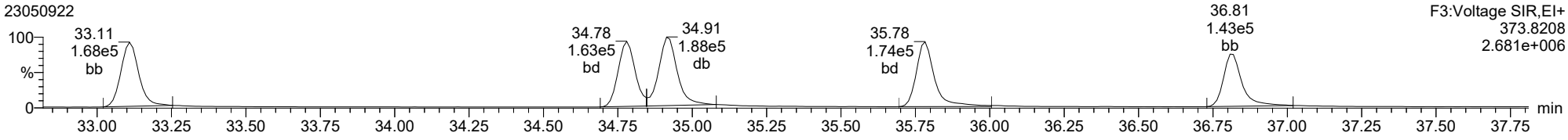

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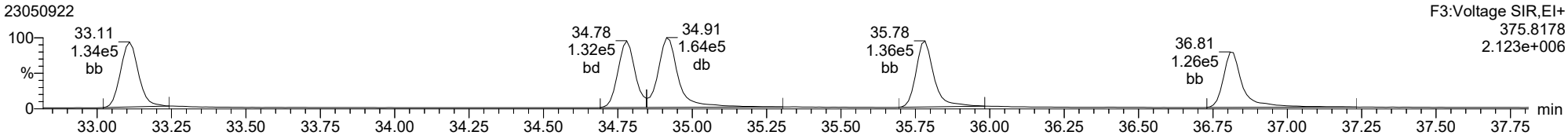

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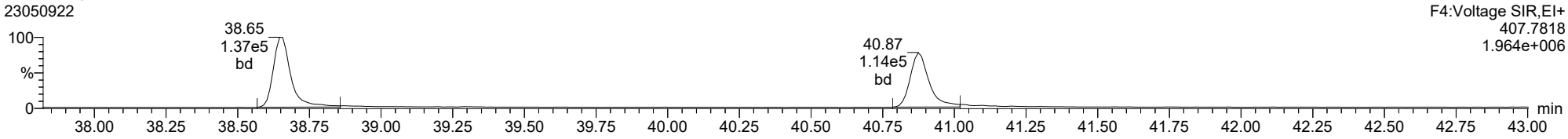

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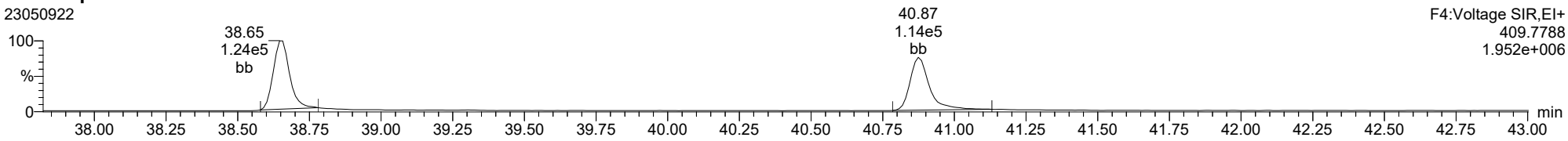

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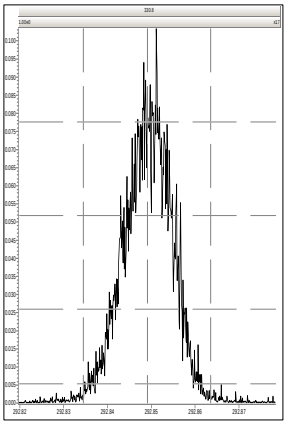

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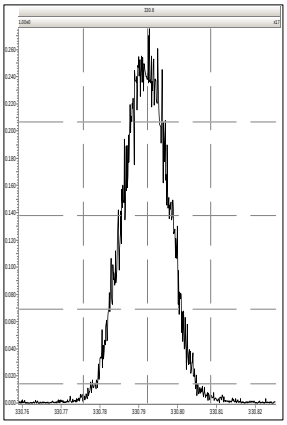

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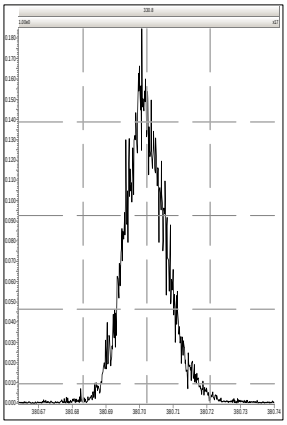

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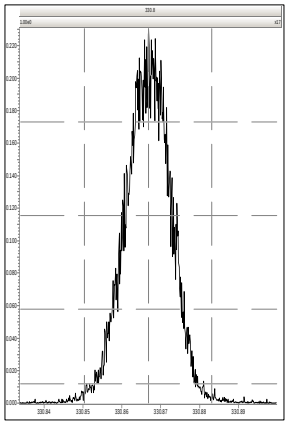

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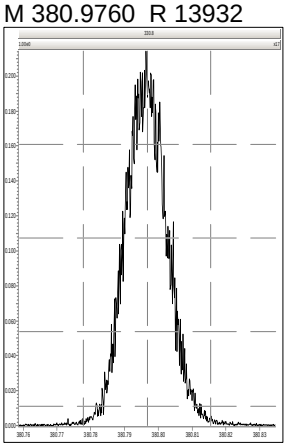

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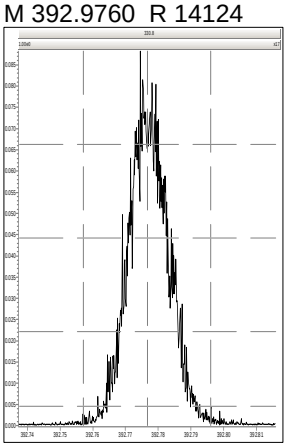
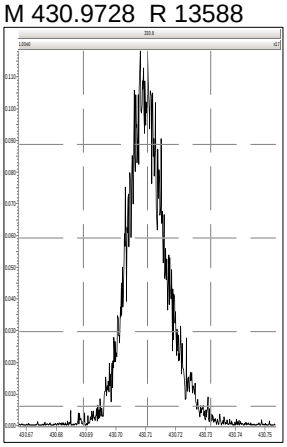
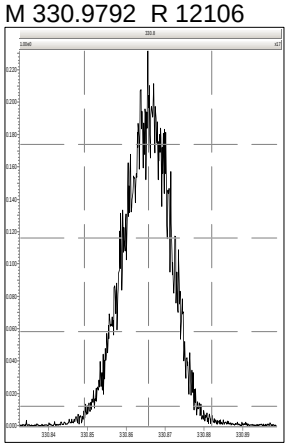


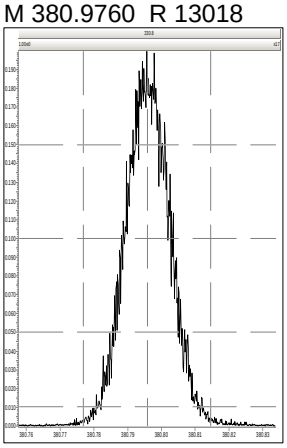
M 430.9728 R 13588



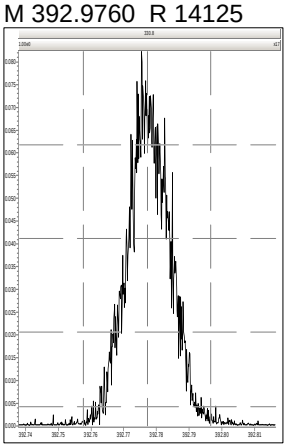
M 330.9792 R 12106



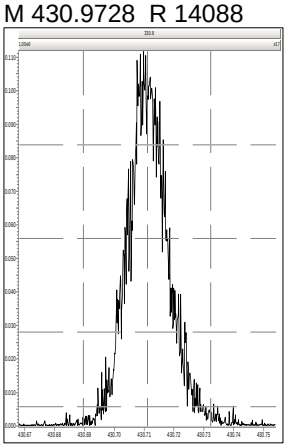
M 380.9760 R 13018



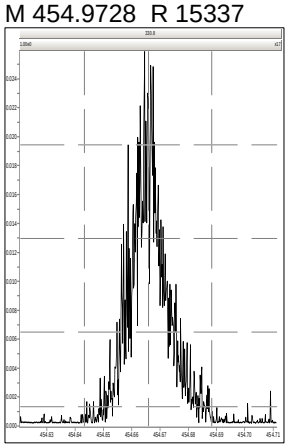
M 392.9760 R 14125



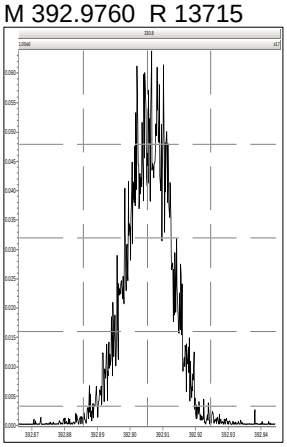
M 430.9728 R 14088



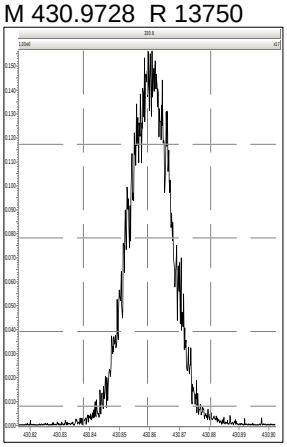
M 454.9728 R 15337



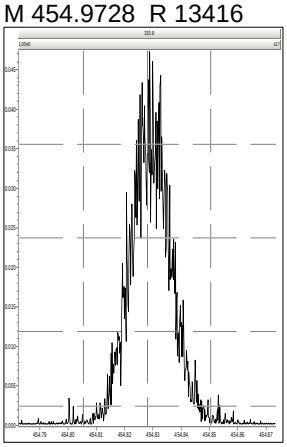
M 392.9760 R 13715



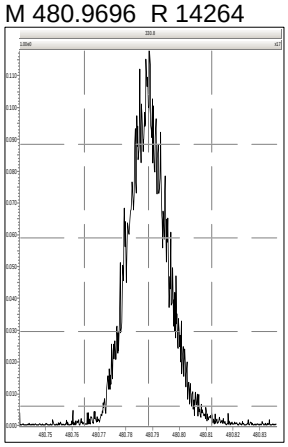
M 430.9728 R 13750



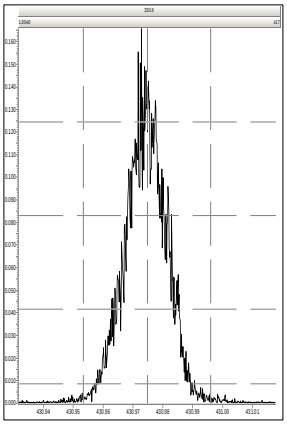
M 454.9728 R 13416



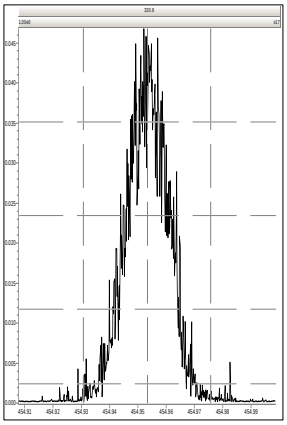
M 480.9696 R 14264



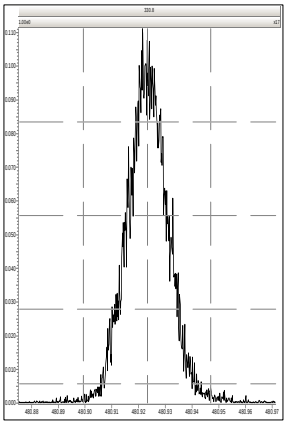
M 430.9728 R 13337



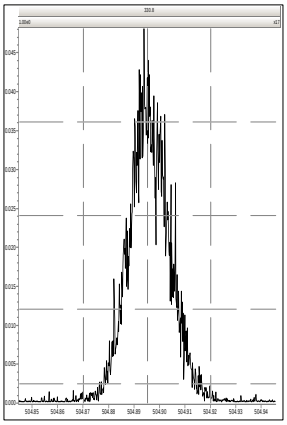
M 454.9728 R 14329



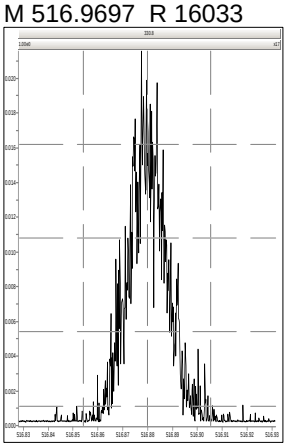
M 480.9696 R 14414

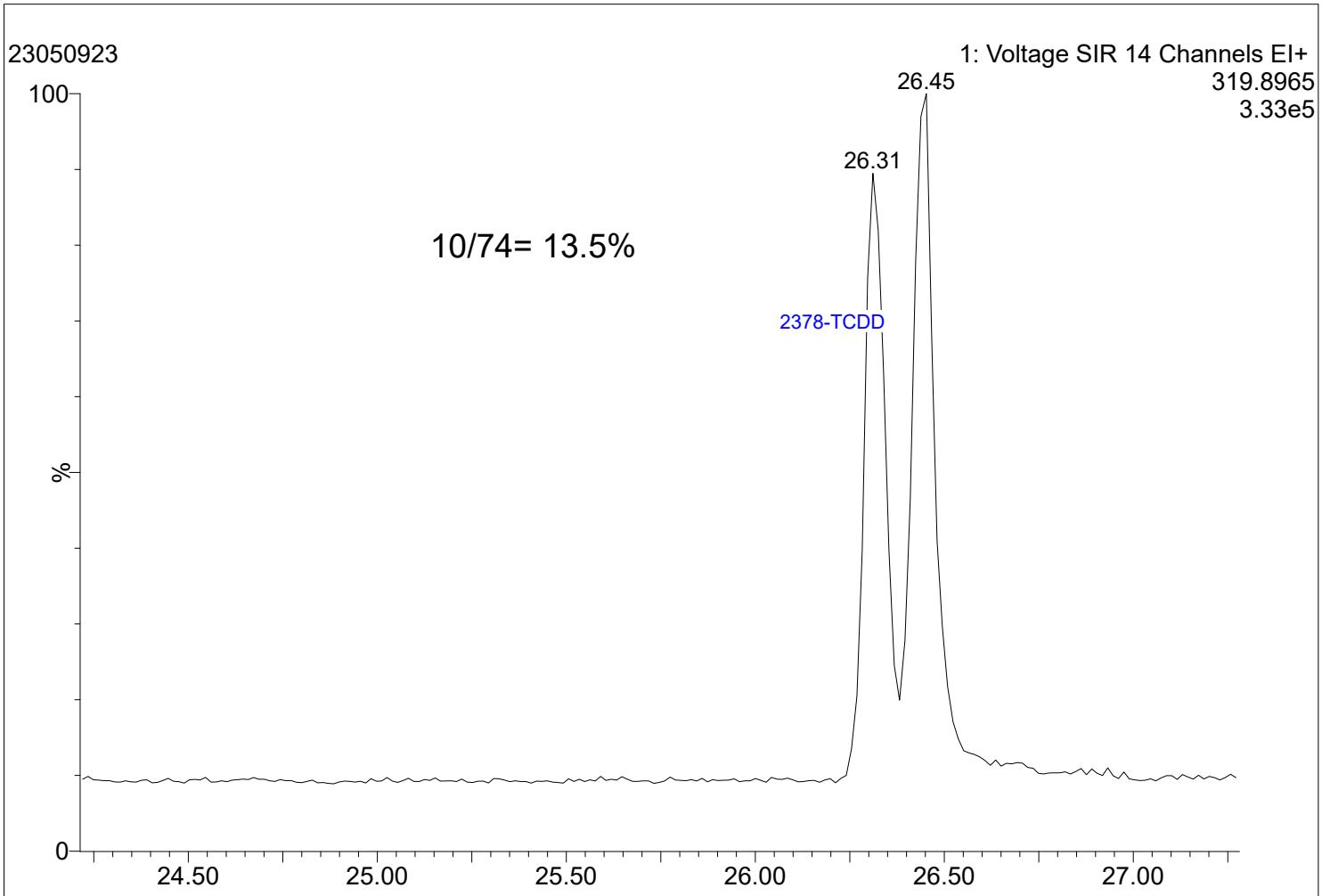


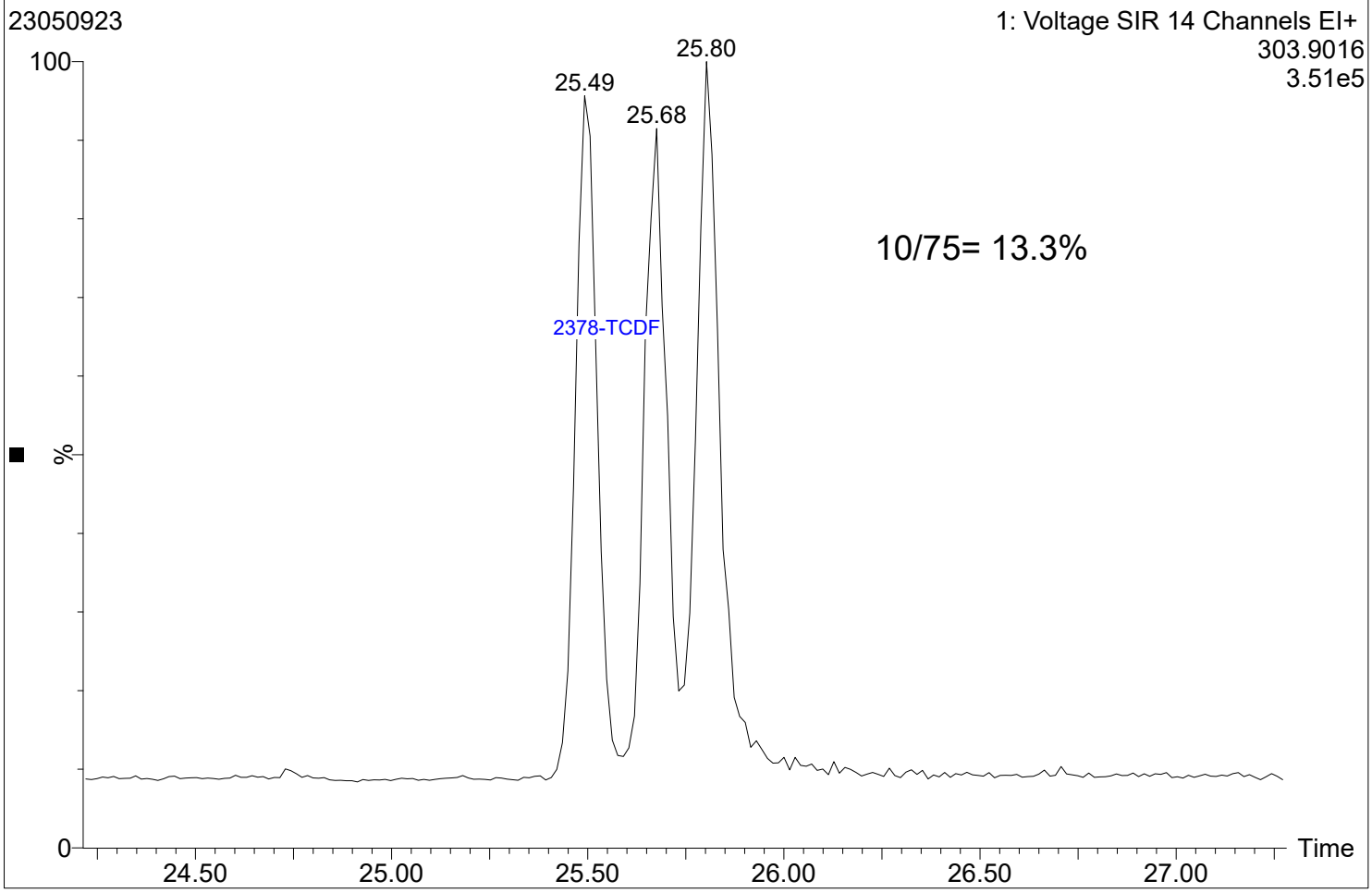
M 504.9696 R 14481



M 516.9697 R 16033




23050923
1: Voltage SIR 14 Channels EI+
319.8965
3.33e5
26.45
26.31
10/74= 13.5%
2378-TCDD
100
%
0
24.50
25.00
25.50
26.00
26.50
27.00


23050923
1: Voltage SIR 14 Channels EI+
303.9016
3.51e5
25.80
25.49
25.68
10/75= 13.3%
2378-TCDF
100
%
0
Time
24.50
25.00
25.50
26.00
26.50
27.00

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030311	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-CCV1	Injection Time:	17:25
Sequence Name:	CS3V4		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.1	0.7015272	0.7103909		1.3	+/-16
2,3,7,8-TCDD	A	10.000	9.02	1.1486620	1.0358000		-9.8	+/-22
1,2,3,7,8-PeCDF	A	50.000	47.7	0.6792300	0.6482723		-4.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	48.6	0.7861704	0.7638484		-2.8	+/-18
1,2,3,7,8-PeCDD	A	50.000	50.8	1.0218450	1.0391930		1.7	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.3	1.1660380	1.1031690		-5.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	51.4	1.0907410	1.1209930		2.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	52.1	1.1396990	1.1864330		4.1	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	48.9	1.1370930	1.1121660		-2.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.7	0.9955689	1.0094320		1.4	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.1	1.0009380	1.0234880		2.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	51.7	0.9071139	0.9383686		3.4	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.7	1.0029930	0.9566603		-4.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	53.6	0.9531152	1.0217610		7.2	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	52.7	1.0390130	1.0955650		5.4	+/-14
OCDF	A	100.00	95.0	0.7778078	0.7390842		-5.0	+/-37
OCDD	A	100.00	97.1	0.9199537	0.8937318		-2.9	+/-21
13C12-2,3,7,8-TCDF	A	100.00	89.4	1.6201960	1.4487738		-10.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	86.0	1.1524090	0.9914363		-14.0	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	92.6	1.2404520	1.1488109		-7.4	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	91.6	1.1177860	1.0240744		-8.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	90.8	0.8288129	0.7523463		-9.2	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	95.2	1.1683050	1.1119828		-4.8	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	91.1	1.3864660	1.2630996		-8.9	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	96.9	1.1292560	1.0940819		-3.1	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	0.9317541	0.9426254		1.2	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.6	0.9950393	0.9710534		-2.4	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	98.4	1.1566890	1.1378328		-1.6	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9116661		1.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	84.3	0.7697516	0.6486548		-15.7	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	92.0	0.8401226	0.7731635		-8.0	+/-28
13C12-OCDD	A	200.00	170	0.7674714	0.6532994		-14.9	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	7.54	1.2878040	0.9705402		-24.6	

* Values outside of QC limits

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030310	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-SCV1	Injection Time:	16:36
Sequence Name:	ICVCW		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.84	0.7015272	0.6901560		-1.6	
2,3,7,8-TCDD	A	10.000	9.81	1.1486620	1.1273700		-1.9	
1,2,3,7,8-PeCDF	A	50.000	51.4	0.6792300	0.6981249		2.8	
2,3,4,7,8-PeCDF	A	50.000	49.0	0.7861704	0.7701368		-2.0	
1,2,3,7,8-PeCDD	A	50.000	48.5	1.0218450	0.9921504		-2.9	
1,2,3,4,7,8-HxCDF	A	50.000	48.2	1.1660380	1.1251100		-3.5	
1,2,3,6,7,8-HxCDF	A	50.000	48.0	1.0907410	1.0469270		-4.0	
2,3,4,6,7,8-HxCDF	A	50.000	50.2	1.1396990	1.1448090		0.4	
1,2,3,7,8,9-HxCDF	A	50.000	49.1	1.1370930	1.1161010		-1.8	
1,2,3,4,7,8-HxCDD	A	50.000	50.8	0.9955689	1.0114830		1.6	
1,2,3,6,7,8-HxCDD	A	50.000	50.2	1.0009380	1.0044310		0.3	
1,2,3,7,8,9-HxCDD	A	50.000	51.6	0.9071139	8347.938		3.2	
1,2,3,4,6,7,8-HpCDF	A	50.000	51.8	1.0029930	1.0398620		3.7	
1,2,3,4,7,8,9-HpCDF	A	50.000	48.5	0.9531152	0.9237809		-3.1	
1,2,3,4,6,7,8-HpCDD	A	50.000	49.2	1.0390130	1.0223590		-1.6	
OCDF	A	100.00	104	0.7778078	0.8050743		3.5	
OCDD	A	100.00	99.4	0.9199537	0.9146365		-0.6	
13C12-2,3,7,8-TCDF	A	100.00	96.9	1.6201960	1.5703703		-3.1	
13C12-2,3,7,8-TCDD	A	100.00	96.6	1.1524090	1.1130294		-3.4	
13C12-1,2,3,7,8-PeCDF	A	100.00	73.2	1.2404520	0.9079224		-26.8	
13C12-2,3,4,7,8-PeCDF	A	100.00	75.9	1.1177860	0.8488817		-24.1	
13C12-1,2,3,7,8-PeCDD	A	100.00	76.6	0.8288129	0.6346243		-23.4	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	93.0	1.1683050	1.0861993		-7.0	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.0	1.3864660	1.3581552		-2.0	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	93.4	1.1292560	1.0544008		-6.6	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	97.9	0.9317541	0.9122440		-2.1	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	95.9	0.9950393	0.9546162		-4.1	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	97.7	1.1566890	1.1296183		-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9144345		2.1	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	104	0.7697516	0.8001798		4.0	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	102	0.8401226	0.8609226		2.5	
13C12-OCDD	A	200.00	162	0.7674714	0.6199758		-19.2	
37Cl4-2,3,7,8-TCDD	A	10.000	8.71	1.2878040	1.1221835		-12.9	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23050929	Calibration Date:	03/03/2023
Sequence:	SLE0060	Injection Date:	05/10/23
Lab Sample ID:	SLE0060-CCV1	Injection Time:	12:00
Sequence Name:	CS3K7		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.95	0.7015272	0.6982223		-0.5	+/-16
2,3,7,8-TCDD	A	10.000	9.74	1.1486620	1.1184930		-2.6	+/-22
1,2,3,7,8-PeCDF	A	50.000	54.8	0.6792300	0.7446449		9.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	53.0	0.7861704	0.8325767		5.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	53.7	1.0218450	1.0983240		7.5	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.6	1.1660380	1.1095710		-4.8	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	49.3	1.0907410	1.0763230		-1.3	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	48.8	1.1396990	1.1119500		-2.4	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.7	1.1370930	1.0856550		-4.5	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	49.4	0.9955689	0.9842592		-1.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	46.4	1.0009380	0.9287160		-7.2	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	54.1	0.9071139	0.9808322		8.1	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	49.2	1.0029930	0.9877123		-1.5	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	51.7	0.9531152	0.9859591		3.4	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	53.3	1.0390130	1.1084210		6.7	+/-14
OCDF	A	100.00	94.7	0.7778078	0.7365286		-5.3	+/-37
OCDD	A	100.00	97.3	0.9199537	0.8947287		-2.7	+/-21
13C12-2,3,7,8-TCDF	A	100.00	97.4	1.6201960	1.5777053		-2.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.1524090	1.1788101		2.3	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	111	1.2404520	1.3719304		10.6	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	118	1.1177860	1.3216622		18.2	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	105	0.8288129	0.8696980		4.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	81.3	1.1683050	0.9499910		-18.7	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	73.2	1.3864660	1.0145449		-26.8	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	84.2	1.1292560	0.9511515		-15.8	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	88.7	0.9317541	0.8260421		-11.3	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	87.8	0.9950393	0.8739820		-12.2	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	81.4	1.1566890	0.9410898		-18.6	+/-15 *
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9137090		2.1	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	105	0.7697516	0.8097005		5.2	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	96.2	0.8401226	0.8080542		-3.8	+/-28
13C12-OCDD	A	200.00	246	0.7674714	0.9434296		22.9	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.97	1.2878040	1.1548526		-10.3	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:21:13 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.676	1.001	2.510e4	3.131e4	0.702	0.802	0.770	716	738	4.06e5	4.94e5	567.2	669.7	NO	bb	bb	9.953
12378-PeCDF	29.822	1.000	1.582e5	1.034e5	0.679	1.531	1.550	2199	1528	2.56e6	1.64e6	1162.9	1073.7	NO	bb	bb	54.815
23478-PeCDF	31.159	1.000	1.690e5	1.127e5	0.786	1.500	1.550	2199	1528	2.60e6	1.76e6	1181.4	1152.9	NO	bb	bb	52.951
123478-HxCDF	34.780	1.000	1.776e5	1.433e5	1.166	1.239	1.240	1821	2254	2.78e6	2.26e6	1524.9	1004.3	NO	bd	bd	47.579
234678-HxCDF	35.783	1.000	1.771e5	1.448e5	1.140	1.223	1.240	1821	2254	2.79e6	2.26e6	1531.4	1001.5	NO	bb	bb	48.783
123678-HxCDF	34.925	1.001	1.848e5	1.476e5	1.091	1.252	1.240	1821	2254	2.91e6	2.31e6	1597.8	1023.2	NO	db	db	49.339
123789-HxCDF	36.819	1.000	1.522e5	1.208e5	1.137	1.261	1.240	1821	2254	2.41e6	1.91e6	1326.4	846.0	NO	bb	bb	47.738
1234678-HpCDF	38.658	1.000	1.379e5	1.369e5	1.003	1.007	1.050	1853	1598	2.37e6	2.33e6	1276.7	1455.9	NO	bb	bb	49.238
1234789-HpCDF	40.886	1.000	1.218e5	1.212e5	0.953	1.004	1.050	1853	1598	1.81e6	1.80e6	977.7	1127.3	NO	bb	bb	51.723
OCDF	45.071	1.006	2.019e5	2.211e5	0.778	0.913	0.890	1142	2752	2.41e6	2.68e6	2109.3	973.1	NO	bb	bb	94.693
2378-TCDD	26.311	1.000	2.996e4	3.756e4	1.149	0.798	0.770	953	770	4.36e5	5.72e5	457.1	742.5	NO	bd	bb	9.737
12378-PeCDD	31.416	1.000	1.478e5	9.675e4	1.022	1.528	1.550	1524	1248	2.32e6	1.52e6	1523.6	1214.5	NO	bb	bb	53.742
123478-HxCDD	35.905	1.000	1.442e5	1.177e5	0.996	1.225	1.240	1349	1523	2.33e6	1.89e6	1729.1	1244.2	NO	bd	bd	49.432
123678-HxCDD	36.028	1.001	1.470e5	1.191e5	1.001	1.234	1.240	1349	1523	2.41e6	1.88e6	1785.8	1231.9	NO	db	db	46.392
123789-HxCDD	36.407	1.011	1.502e5	1.208e5	0.907	1.243	1.240	1349	1523	2.48e6	1.97e6	1838.0	1291.4	NO	bb	bb	54.063
1234678-HpCDD	40.151	1.001	1.431e5	1.295e5	1.039	1.105	1.050	1502	1441	2.13e6	2.00e6	1420.3	1386.8	NO	bd	bb	53.340
OCDD	44.833	1.000	2.394e5	2.745e5	0.920	0.872	0.890	1905	2464	3.05e6	3.51e6	1599.8	1424.2	NO	bb	bb	97.258
13C-2378-TCDF	25.661	1.007	3.496e5	4.583e5	1.620	0.763	0.770	1556	1158	5.24e6	6.79e6	3366.2	5863.4	NO	bb	bb	97.377
13C-12378-PeCDF	29.811	1.169	4.254e5	2.771e5	1.240	1.535	1.550	3322	1749	6.49e6	4.20e6	1952.8	2399.7	NO	bb	bb	110.599
13C-23478-PeCDF	31.148	1.222	4.096e5	2.671e5	1.118	1.533	1.550	3322	1749	6.20e6	4.02e6	1865.2	2295.4	NO	bb	bb	118.239
13C-123478-HxCDF	34.769	0.955	1.960e5	3.824e5	1.168	0.513	0.510	1724	1531	3.15e6	6.13e6	1828.0	4007.6	NO	bd	bd	81.314
13C-123678-HxCDF	34.903	0.959	2.093e5	4.084e5	1.386	0.512	0.510	1724	1531	3.29e6	6.36e6	1906.9	4153.5	NO	db	db	73.175
13C-234678-HxCDF	35.772	0.983	1.960e5	3.831e5	1.129	0.512	0.510	1724	1531	3.15e6	6.07e6	1826.7	3962.3	NO	bb	bb	84.228
13C-123789-HxCDF	36.808	1.011	1.696e5	3.333e5	0.932	0.509	0.510	1724	1531	2.77e6	5.36e6	1609.4	3502.7	NO	bb	bb	88.655
13C-1234678-HpCDF	38.646	1.062	1.707e5	3.856e5	0.895	0.443	0.440	1992	2647	2.93e6	6.57e6	1472.0	2481.6	NO	bb	bb	102.067
13C-1234789-HpCDF	40.875	1.123	1.554e5	3.376e5	0.770	0.460	0.440	1992	2647	2.23e6	4.92e6	1118.0	1859.8	NO	bb	bb	105.190
13C-1234-TCDD	25.492	0.000	2.268e5	2.853e5	1.000	0.795	0.770	1620	1032	3.46e6	4.33e6	2133.5	4195.6	NO	bb	bb	100.000
13C-2378-TCDD	26.297	1.032	2.652e5	3.385e5	1.152	0.784	0.770	1620	1032	4.06e6	5.13e6	2507.9	4970.2	NO	bb	bb	102.291
13C-12378-PeCDD	31.404	1.232	2.780e5	1.674e5	0.829	1.661	1.550	1055	877	4.14e6	2.47e6	3925.5	2817.9	NO	bd	bb	104.933
13C-123478-HxCDD	35.895	0.986	2.963e5	2.358e5	0.995	1.257	1.240	1048	1474	4.88e6	3.91e6	4655.9	2653.1	NO	bd	bd	87.834
13C-123678-HxCDD	36.006	0.989	3.209e5	2.521e5	1.157	1.273	1.240	1048	1474	5.08e6	4.04e6	4842.5	2742.2	NO	db	db	81.361
13C-1234678-HpCDD	40.128	1.103	2.510e5	2.410e5	0.840	1.041	1.050	1555	1401	3.85e6	3.71e6	2476.3	2649.8	NO	bb	bb	96.183
13C-OCDD	44.815	1.231	5.458e5	6.029e5	0.767	0.905	0.890	1531	1803	6.45e6	7.14e6	4211.4	3959.4	NO	bd	bd	245.854
13C-123789-HxCDD	36.396	0.000	3.408e5	2.680e5	1.000	1.272	1.240	1048	1474	5.28e6	4.17e6	5035.6	2828.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.311	1.032	5.914e4		1.288			1196		8.80e5		735.7			bb		8.968

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:21:13 Pacific Daylight Time

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.173	0.864	2.840e4	3.974e4	0.802	0.715	0.770	716	738	4.57e5	6.66e5	638.4	902.5	NO	bb	bb	10.523
1289-TCDF	27.173	1.059	2.345e4	3.169e4	0.678	0.740	0.770	716	738	3.56e5	4.81e5	497.1	652.3	NO	db	bb	10.068
13468-PECDF	27.031	0.907	2.319e5	1.548e5	1.246	1.498	1.550	618	737	3.50e6	2.33e6	5656.8	3168.3	NO	bb	bb	44.157
12389-PECDF	32.195	1.080	1.637e5	1.076e5	0.496	1.522	1.550	2199	1528	2.51e6	1.67e6	1143.5	1090.2	NO	bb	bb	77.806
123468-HXCDF	33.120	0.953	1.740e5	1.398e5	1.169	1.245	1.240	1821	2254	2.69e6	2.15e6	1479.6	955.4	NO	bb	bb	46.417
1368-TCDD	23.458	0.892	2.635e4	3.233e4	1.015	0.815	0.770	953	770	4.19e5	4.97e5	439.5	645.3	NO	bb	bb	9.574
1289-TCDD	26.919	1.024	2.379e4	3.106e4	0.909	0.766	0.770	953	770	3.53e5	4.49e5	370.6	583.8	NO	bb	bb	9.999
12479-PECDD	28.697	0.914	2.435e5	1.553e5	2.301	1.567	1.550	1524	1248	2.35e6	1.50e6	1544.5	1204.0	NO	bb	bb	38.910
12389-PECDD	31.817	1.013	1.763e5	1.113e5	1.184	1.584	1.550	1524	1248	2.75e6	1.71e6	1801.2	1370.1	NO	bb	bb	54.551
124679-HXCDD	33.900	0.944	1.465e5	1.182e5	1.115	1.239	1.240	1349	1523	2.28e6	1.86e6	1687.2	1223.6	NO	bb	bb	44.590
1234679-HPCDD	39.103	0.975	1.479e5	1.435e5	1.137	1.031	1.050	1502	1441	2.42e6	2.35e6	1613.5	1631.8	NO	bb	bb	52.100
Total-tetrafurans			7.780e4		0.727			716		1.23e6							30.862
Total-penta1			2.319e5					618		3.50e6							44.157
Total-pentafurans			5.166e5		0.654			2199		8.07e6							194.955
Total-hexafurans			8.658e5		1.141			1821		1.36e7							239.855
Total-heptafurans			2.596e5		0.978			1853		4.18e6							100.961
Total-Furans			2.154e6		0.922			716		3.30e7							705.484
Total-tetradioxins			1.364e5		1.024			953		1.87e6							49.763
Total-pentadioxins			5.675e5		1.502			1524		7.42e6							147.203
Total-hexadioxins			5.881e5		1.005			1349		9.51e6							194.585
Total-heptadioxins			2.910e5		1.088			1502		4.56e6							105.440
Total-Dioxins			1.823e6		1.130			953		2.64e7							594.249
Total-TEQ			3.976e6					953		5.94e7							1299.733
FUNCTION1 PFK			1.489e5					279083		4.20e6							
FUNCTION2 PFK			1.321e5					179131		4.77e6							0.000
FUNCTION3 PFK			5.122e6					303675		2.50e6							0.000
FUNCTION4 PFK			1.487e5					184400		4.09e6							
FUNCTION5 PFK			6.967e4					148407		2.41e6							
FUNCTION1 HXCD...			3.381e2					611		4.55e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			4.931e2					724		9.61e3							0.000
FUNCTION3 OCDPE			1.546e2					565		2.28e3							0.000
FUNCTION4 NCDPE			1.575e2					671		4.08e3							0.000
FUNCTION5 DCDPE			1.472e2					596		2.67e3							0.000

Method: T:\Autospec\Methods\Dioxin230509.mdb 10 May 2023 07:46:56
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	2.345e4	3.169e4	0.678	0.74	0.77	497.1	YES	NO	db	bb	10.068
2	Total-tetrafurans	27.05	5.574e2	6.711e2	0.727	0.83	0.77	11.8	YES	NO	bd	bb	0.209
3	2378-TCDF	25.68	2.510e4	3.131e4	0.702	0.80	0.77	567.2	YES	NO	bb	bb	9.953
4	Total-tetrafurans	24.45	2.900e2	3.477e2	0.727	0.83	0.77	9.3	YES	NO	bd	bd	0.109
5	1368-TCDF	22.17	2.840e4	3.974e4	0.802	0.71	0.77	638.4	YES	NO	bb	bb	10.523

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.03	2.319e5	1.548e5	1.246	1.50	1.55	5656.8	YES	NO	bb	bb	44.157

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.16	1.690e5	1.127e5	0.786	1.50	1.55	1181.4	YES	NO	bb	bb	52.951
2	12378-PeCDF	29.82	1.582e5	1.034e5	0.679	1.53	1.55	1162.9	YES	NO	bb	bb	54.815
3	Total-pentafurans	28.67	2.566e4	1.665e4	0.654	1.54	1.55	183.7	YES	NO	bb	bb	9.382
4	12389-PECDF	32.20	1.637e5	1.076e5	0.496	1.52	1.55	1143.5	YES	NO	bb	bb	77.806

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.82	1.522e5	1.208e5	1.137	1.26	1.24	1326.4	YES	NO	bb	bb	47.738
2	234678-HxCDF	35.78	1.771e5	1.448e5	1.140	1.22	1.24	1531.4	YES	NO	bb	bb	48.783
3	123678-HxCDF	34.92	1.848e5	1.476e5	1.091	1.25	1.24	1597.8	YES	NO	db	db	49.339
4	123478-HxCDF	34.78	1.776e5	1.433e5	1.166	1.24	1.24	1524.9	YES	NO	bd	bd	47.579
5	123468-HXCDF	33.12	1.740e5	1.398e5	1.169	1.24	1.24	1479.6	YES	NO	bb	bb	46.417

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.89	1.218e5	1.212e5	0.953	1.00	1.05	977.7	YES	NO	bb	bb	51.723
2	1234678-HpCDF	38.66	1.379e5	1.369e5	1.003	1.01	1.05	1276.7	YES	NO	bb	bb	49.238

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	2.345e4	3.169e4	0.678	0.74	0.77	497.1	YES	NO	db	bb	10.068
2	Total-tetrafurans	27.05	5.574e2	6.711e2	0.727	0.83	0.77	11.8	YES	NO	bd	bb	0.209
3	2378-TCDF	25.68	2.510e4	3.131e4	0.702	0.80	0.77	567.2	YES	NO	bb	bb	9.953
4	Total-tetrafurans	24.45	2.900e2	3.477e2	0.727	0.83	0.77	9.3	YES	NO	bd	bd	0.109
5	1368-TCDF	22.17	2.840e4	3.974e4	0.802	0.71	0.77	638.4	YES	NO	bb	bb	10.523
6	23478-PeCDF	31.16	1.690e5	1.127e5	0.786	1.50	1.55	1181.4	YES	NO	bb	bb	52.951
7	12378-PeCDF	29.82	1.582e5	1.034e5	0.679	1.53	1.55	1162.9	YES	NO	bb	bb	54.815
8	Total-pentafurans	28.67	2.566e4	1.665e4	0.654	1.54	1.55	183.7	YES	NO	bb	bb	9.382
9	12389-PECDF	32.20	1.637e5	1.076e5	0.496	1.52	1.55	1143.5	YES	NO	bb	bb	77.806
10	123789-HxCDF	36.82	1.522e5	1.208e5	1.137	1.26	1.24	1326.4	YES	NO	bb	bb	47.738
11	234678-HxCDF	35.78	1.771e5	1.448e5	1.140	1.22	1.24	1531.4	YES	NO	bb	bb	48.783
12	123678-HxCDF	34.92	1.848e5	1.476e5	1.091	1.25	1.24	1597.8	YES	NO	db	db	49.339
13	123478-HxCDF	34.78	1.776e5	1.433e5	1.166	1.24	1.24	1524.9	YES	NO	bd	bd	47.579
14	123468-HXCDF	33.12	1.740e5	1.398e5	1.169	1.24	1.24	1479.6	YES	NO	bb	bb	46.417
15	1234789-HpCDF	40.89	1.218e5	1.212e5	0.953	1.00	1.05	977.7	YES	NO	bb	bb	51.723
16	1234678-HpCDF	38.66	1.379e5	1.369e5	1.003	1.01	1.05	1276.7	YES	NO	bb	bb	49.238
17	OCDF	45.07	2.019e5	2.211e5	0.778	0.91	0.89	2109.3	YES	NO	bb	bb	94.693
18	13468-PECDF	27.03	2.319e5	1.548e5	1.246	1.50	1.55	5656.8	YES	NO	bb	bb	44.157

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	23.74	2.033e2	2.706e2	1.024	0.75	0.77	3.6	YES	NO	bb	db	0.077
2	1368-TCDD	23.46	2.635e4	3.233e4	1.015	0.82	0.77	439.5	YES	NO	bb	bb	9.574
3	1289-TCDD	26.92	2.379e4	3.106e4	0.909	0.77	0.77	370.6	YES	NO	bb	bb	9.999
4	2378-TCDD	26.31	2.996e4	3.756e4	1.149	0.80	0.77	457.1	YES	NO	bd	bb	9.737
5	Total-tetradioxins	25.99	4.248e4	5.319e4	1.024	0.80	0.77	477.0	YES	NO	bb	bb	15.474
6	Total-tetradioxins	25.51	1.363e4	1.667e4	1.024	0.82	0.77	217.7	YES	NO	bd	bd	4.901

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.82	1.763e5	1.113e5	1.184	1.58	1.55	1801.2	YES	NO	bb	bb	54.551
2	12378-PeCDD	31.42	1.478e5	9.675e4	1.022	1.53	1.55	1523.6	YES	NO	bb	bb	53.742
3	12479-PECDD	28.70	2.435e5	1.553e5	2.301	1.57	1.55	1544.5	YES	NO	bb	bb	38.910

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.41	1.502e5	1.208e5	0.907	1.24	1.24	1838.0	YES	NO	bb	bb	54.063
2	123678-HxCDD	36.03	1.470e5	1.191e5	1.001	1.23	1.24	1785.8	YES	NO	db	db	46.392
3	123478-HxCDD	35.91	1.442e5	1.177e5	0.996	1.22	1.24	1729.1	YES	NO	bd	bd	49.432
4	Total-hexadioxins	35.05	2.554e2	1.830e2	1.005	1.40	1.24	5.3	YES	NO	db	bb	0.079
5	Total-hexadioxins	34.10	8.367e1	7.691e1	1.005	1.09	1.24	2.4	NO	NO	bb	bb	0.029
6	124679-HXCDD	33.90	1.465e5	1.182e5	1.115	1.24	1.24	1687.2	YES	NO	bb	bb	44.590

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.15	1.431e5	1.295e5	1.039	1.11	1.05	1420.3	YES	NO	bd	bb	53.340
2	1234679-HPCDD	39.10	1.479e5	1.435e5	1.137	1.03	1.05	1613.5	YES	NO	bb	bb	52.100

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	23.74	2.033e2	2.706e2	1.024	0.75	0.77	3.6	YES	NO	bb	db	0.077
2	1368-TCDD	23.46	2.635e4	3.233e4	1.015	0.82	0.77	439.5	YES	NO	bb	bb	9.574
3	1289-TCDD	26.92	2.379e4	3.106e4	0.909	0.77	0.77	370.6	YES	NO	bb	bb	9.999
4	2378-TCDD	26.31	2.996e4	3.756e4	1.149	0.80	0.77	457.1	YES	NO	bd	bb	9.737
5	Total-tetradioxins	25.99	4.248e4	5.319e4	1.024	0.80	0.77	477.0	YES	NO	bb	bb	15.474
6	Total-tetradioxins	25.51	1.363e4	1.667e4	1.024	0.82	0.77	217.7	YES	NO	bd	bd	4.901
7	12389-PECDD	31.82	1.763e5	1.113e5	1.184	1.58	1.55	1801.2	YES	NO	bb	bb	54.551
8	12378-PeCDD	31.42	1.478e5	9.675e4	1.022	1.53	1.55	1523.6	YES	NO	bb	bb	53.742
9	12479-PECDD	28.70	2.435e5	1.553e5	2.301	1.57	1.55	1544.5	YES	NO	bb	bb	38.910
10	123789-HxCDD	36.41	1.502e5	1.208e5	0.907	1.24	1.24	1838.0	YES	NO	bb	bb	54.063
11	123678-HxCDD	36.03	1.470e5	1.191e5	1.001	1.23	1.24	1785.8	YES	NO	db	db	46.392
12	123478-HxCDD	35.91	1.442e5	1.177e5	0.996	1.22	1.24	1729.1	YES	NO	bd	bd	49.432
13	Total-hexadioxins	35.05	2.554e2	1.830e2	1.005	1.40	1.24	5.3	YES	NO	db	bb	0.079
14	Total-hexadioxins	34.10	8.367e1	7.691e1	1.005	1.09	1.24	2.4	NO	NO	bb	bb	0.029
15	124679-HXCDD	33.90	1.465e5	1.182e5	1.115	1.24	1.24	1687.2	YES	NO	bb	bb	44.590
16	OCDD	44.83	2.394e5	2.745e5	0.920	0.87	0.89	1599.8	YES	NO	bb	bb	97.258
17	1234678-HpCDD	40.15	1.431e5	1.295e5	1.039	1.11	1.05	1420.3	YES	NO	bd	bb	53.340
18	1234679-HPCDD	39.10	1.479e5	1.435e5	1.137	1.03	1.05	1613.5	YES	NO	bb	bb	52.100

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:21:13 Pacific Daylight Time

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.17	2.345e4	3.169e4	0.678	0.74	0.77	497.1	YES	NO	db	bb	10.068
2	Total-tetrafurans	27.05	5.574e2	6.711e2	0.727	0.83	0.77	11.8	YES	NO	bd	bb	0.209
3	2378-TCDF	25.68	2.510e4	3.131e4	0.702	0.80	0.77	567.2	YES	NO	bb	bb	9.953
4	Total-tetrafurans	24.45	2.900e2	3.477e2	0.727	0.83	0.77	9.3	YES	NO	bd	bd	0.109
5	1368-TCDF	22.17	2.840e4	3.974e4	0.802	0.71	0.77	638.4	YES	NO	bb	bb	10.523
6	23478-PeCDF	31.16	1.690e5	1.127e5	0.786	1.50	1.55	1181.4	YES	NO	bb	bb	52.951
7	12378-PeCDF	29.82	1.582e5	1.034e5	0.679	1.53	1.55	1162.9	YES	NO	bb	bb	54.815
8	Total-pentafurans	28.67	2.566e4	1.665e4	0.654	1.54	1.55	183.7	YES	NO	bb	bb	9.382
9	12389-PECDF	32.20	1.637e5	1.076e5	0.496	1.52	1.55	1143.5	YES	NO	bb	bb	77.806
10	123789-HxCDF	36.82	1.522e5	1.208e5	1.137	1.26	1.24	1326.4	YES	NO	bb	bb	47.738
11	234678-HxCDF	35.78	1.771e5	1.448e5	1.140	1.22	1.24	1531.4	YES	NO	bb	bb	48.783
12	123678-HxCDF	34.92	1.848e5	1.476e5	1.091	1.25	1.24	1597.8	YES	NO	db	db	49.339
13	123478-HxCDF	34.78	1.776e5	1.433e5	1.166	1.24	1.24	1524.9	YES	NO	bd	bd	47.579
14	123468-HXCDF	33.12	1.740e5	1.398e5	1.169	1.24	1.24	1479.6	YES	NO	bb	bb	46.417
15	1234789-HpCDF	40.89	1.218e5	1.212e5	0.953	1.00	1.05	977.7	YES	NO	bb	bb	51.723
16	1234678-HpCDF	38.66	1.379e5	1.369e5	1.003	1.01	1.05	1276.7	YES	NO	bb	bb	49.238
17	OCDF	45.07	2.019e5	2.211e5	0.778	0.91	0.89	2109.3	YES	NO	bb	bb	94.693
18	13468-PECDF	27.03	2.319e5	1.548e5	1.246	1.50	1.55	5656.8	YES	NO	bb	bb	44.157
19	Total-tetradioxins	23.74	2.033e2	2.706e2	1.024	0.75	0.77	3.6	YES	NO	bb	db	0.077
20	1368-TCDD	23.46	2.635e4	3.233e4	1.015	0.82	0.77	439.5	YES	NO	bb	bb	9.574
21	1289-TCDD	26.92	2.379e4	3.106e4	0.909	0.77	0.77	370.6	YES	NO	bb	bb	9.999
22	2378-TCDD	26.31	2.996e4	3.756e4	1.149	0.80	0.77	457.1	YES	NO	bd	bb	9.737
23	Total-tetradioxins	25.99	4.248e4	5.319e4	1.024	0.80	0.77	477.0	YES	NO	bb	bb	15.474
24	Total-tetradioxins	25.51	1.363e4	1.667e4	1.024	0.82	0.77	217.7	YES	NO	bd	bd	4.901
25	12389-PECDD	31.82	1.763e5	1.113e5	1.184	1.58	1.55	1801.2	YES	NO	bb	bb	54.551
26	12378-PeCDD	31.42	1.478e5	9.675e4	1.022	1.53	1.55	1523.6	YES	NO	bb	bb	53.742
27	12479-PECDD	28.70	2.435e5	1.553e5	2.301	1.57	1.55	1544.5	YES	NO	bb	bb	38.910
28	123789-HxCDD	36.41	1.502e5	1.208e5	0.907	1.24	1.24	1838.0	YES	NO	bb	bb	54.063
29	123678-HxCDD	36.03	1.470e5	1.191e5	1.001	1.23	1.24	1785.8	YES	NO	db	db	46.392
30	123478-HxCDD	35.91	1.442e5	1.177e5	0.996	1.22	1.24	1729.1	YES	NO	bd	bd	49.432
31	Total-hexadioxins	35.05	2.554e2	1.830e2	1.005	1.40	1.24	5.3	YES	NO	db	bb	0.079
32	Total-hexadioxins	34.10	8.367e1	7.691e1	1.005	1.09	1.24	2.4	NO	NO	bb	bb	0.029
33	124679-HXCDD	33.90	1.465e5	1.182e5	1.115	1.24	1.24	1687.2	YES	NO	bb	bb	44.590
34	OCDD	44.83	2.394e5	2.745e5	0.920	0.87	0.89	1599.8	YES	NO	bb	bb	97.258
35	1234678-HpCDD	40.15	1.431e5	1.295e5	1.039	1.11	1.05	1420.3	YES	NO	bd	bb	53.340
36	1234679-HPCDD	39.10	1.479e5	1.435e5	1.137	1.03	1.05	1613.5	YES	NO	bb	bb	52.100

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.98	1.918e3					0.5	NO		bb		
2	FUNCTION1 PFK	26.69	2.222e4					1.1	NO		bb		
3	FUNCTION1 PFK	26.47	1.405e4					1.0	NO		bb		
4	FUNCTION1 PFK	25.52	3.013e4					1.6	NO		bb		
5	FUNCTION1 PFK	24.52	2.180e3					0.6	NO		bb		
6	FUNCTION1 PFK	24.46	1.617e4					1.0	NO		bb		
7	FUNCTION1 PFK	24.25	1.503e4					1.6	NO		bb		
8	FUNCTION1 PFK	24.15	2.129e3					0.5	NO		bb		
9	FUNCTION1 PFK	23.75	1.210e4					1.2	NO		bb		
10	FUNCTION1 PFK	22.98	2.370e3					0.6	NO		bb		
11	FUNCTION1 PFK	22.94	2.311e3					0.6	NO		bb		
12	FUNCTION1 PFK	22.29	9.133e3					1.3	NO		bb		
13	FUNCTION1 PFK	21.42	2.012e3					0.5	NO		bb		
14	FUNCTION1 PFK	21.17	2.068e3					0.5	NO		bb		
15	FUNCTION1 PFK	21.13	7.392e3					1.0	NO		bb		
16	FUNCTION1 PFK	27.43	2.562e3					0.6	NO		bb		
17	FUNCTION1 PFK	27.24	5.147e3					0.8	NO		bb		

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.78	8.381e3					1.9	NO		bd		0.000
2	FUNCTION2 PFK	30.69	1.194e4					1.5	NO		bb		0.000
3	FUNCTION2 PFK	29.79	4.364e3					1.1	NO		bb		0.000
4	FUNCTION2 PFK	29.58	2.785e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	29.45	9.948e3					1.6	NO		bb		0.000
6	FUNCTION2 PFK	29.40	1.085e4					1.6	NO		bb		0.000
7	FUNCTION2 PFK	29.25	1.862e3					0.6	NO		bb		0.000
8	FUNCTION2 PFK	29.21	7.606e3					1.7	NO		bb		0.000
9	FUNCTION2 PFK	29.02	9.474e3					2.1	NO		bb		0.000
10	FUNCTION2 PFK	28.91	2.716e3					0.6	NO		bb		0.000
11	FUNCTION2 PFK	28.56	7.164e3					1.7	NO		bb		0.000
12	FUNCTION2 PFK	28.52	2.488e3					0.7	NO		bb		0.000
13	FUNCTION2 PFK	28.37	2.937e3					0.7	NO		bb		0.000
14	FUNCTION2 PFK	32.73	7.108e3					1.6	NO		bb		0.000
15	FUNCTION2 PFK	32.40	4.166e3					1.0	NO		bb		0.000
16	FUNCTION2 PFK	32.20	1.275e3					0.6	NO		bb		0.000
17	FUNCTION2 PFK	32.16	8.558e2					0.4	NO		bb		0.000
18	FUNCTION2 PFK	31.66	3.613e3					0.8	NO		bb		0.000
19	FUNCTION2 PFK	31.46	5.032e3					1.0	NO		db		0.000
20	FUNCTION2 PFK	31.43	3.203e3					0.9	NO		bd		0.000
21	FUNCTION2 PFK	31.24	3.480e3					1.1	NO		bb		0.000
22	FUNCTION2 PFK	30.98	1.204e4					1.5	NO		bb		0.000
23	FUNCTION2 PFK	30.83	8.764e3					1.2	NO		db		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.65	2.533e6					4.9	YES		bb		0.000
2	FUNCTION3 PFK	36.26	2.589e6					3.3	YES		bb		0.000

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.03	3.015e4					2.6	NO		bb		
2	FUNCTION4 PFK	37.98	5.563e3					1.2	NO		bb		
3	FUNCTION4 PFK	42.64	4.479e3					1.1	NO		bb		
4	FUNCTION4 PFK	42.48	6.452e3					1.4	NO		bb		
5	FUNCTION4 PFK	41.55	7.414e3					1.2	NO		bb		
6	FUNCTION4 PFK	41.24	1.032e4					1.8	NO		bb		
7	FUNCTION4 PFK	41.11	1.055e3					0.5	NO		bb		
8	FUNCTION4 PFK	40.75	2.240e3					0.7	NO		bb		
9	FUNCTION4 PFK	39.86	1.408e4					1.6	NO		bb		
10	FUNCTION4 PFK	39.73	1.021e4					1.5	NO		bb		
11	FUNCTION4 PFK	39.50	5.051e3					1.3	NO		db		
12	FUNCTION4 PFK	39.47	6.422e3					1.3	NO		bd		
13	FUNCTION4 PFK	39.40	6.594e3					1.2	NO		bb		
14	FUNCTION4 PFK	39.19	2.475e4					1.9	NO		bb		
15	FUNCTION4 PFK	38.37	7.719e3					1.4	NO		bb		
16	FUNCTION4 PFK	38.23	6.183e3					1.5	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.06	4.251e3					0.7	NO		bd		
2	FUNCTION5 PFK	45.76	4.029e3					1.4	NO		bb		
3	FUNCTION5 PFK	45.65	6.683e3					1.4	NO		bb		
4	FUNCTION5 PFK	45.60	1.385e3					0.6	NO		bb		
5	FUNCTION5 PFK	45.57	1.215e3					0.6	NO		bb		
6	FUNCTION5 PFK	44.66	5.778e3					1.6	NO		db		
7	FUNCTION5 PFK	44.62	5.534e3					1.4	NO		dd		
8	FUNCTION5 PFK	44.58	1.268e4					1.5	NO		bd		
9	FUNCTION5 PFK	44.42	3.141e3					1.1	NO		bb		
10	FUNCTION5 PFK	44.19	1.861e3					0.8	NO		bb		
11	FUNCTION5 PFK	43.47	6.620e3					1.5	NO		bb		
12	FUNCTION5 PFK	43.26	1.048e4					1.7	NO		bb		
13	FUNCTION5 PFK	43.12	6.014e3					1.7	NO		db		

ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.40	7.106e1					1.5	NO		db		0.000
2	FUNCTION1 HXCD...	26.30	1.547e2					3.9	YES		bd		0.000
3	FUNCTION1 HXCD...	21.13	1.123e2					2.1	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.25	1.183e2					4.7	YES		bb		0.000
2	FUNCTION2 HPCD...	31.15	1.055e2					3.1	YES		db		0.000
3	FUNCTION2 HPCD...	31.06	9.733e1					2.3	NO		bd		0.000
4	FUNCTION2 HPCD...	29.83	7.466e1					1.8	NO		bb		0.000
5	FUNCTION2 HPCD...	28.74	9.733e1					1.3	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.37	8.067e1					2.4	NO		bb		0.000
2	FUNCTION3 OCDPE	34.37	7.393e1					1.6	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.54	7.696e1					2.6	NO		db		0.000
2	FUNCTION4 NCDPE	38.50	8.049e1					3.5	YES		bd		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.74	7.603e1					2.4	NO		bb		0.000
2	FUNCTION5 DCDPE	43.29	7.114e1					2.1	NO		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Thursday, May 11, 2023 11:21:13 Pacific Daylight Time

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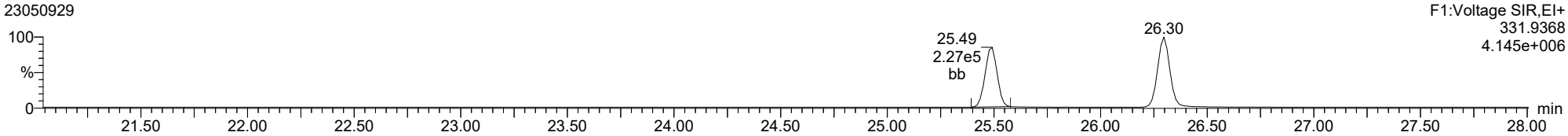
ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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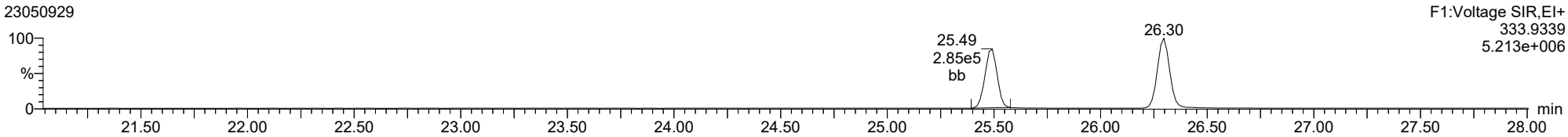

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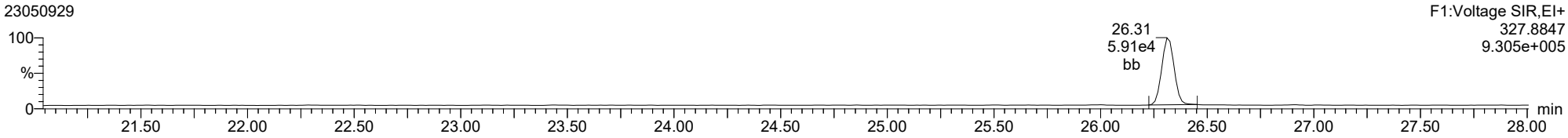

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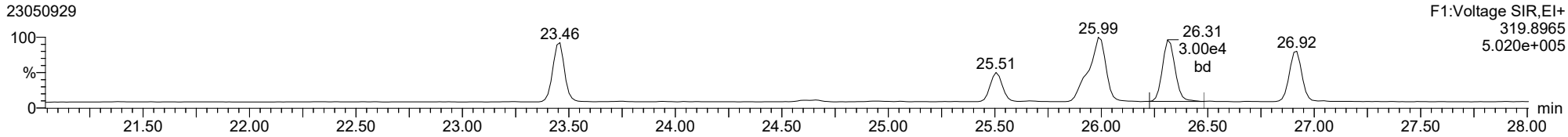
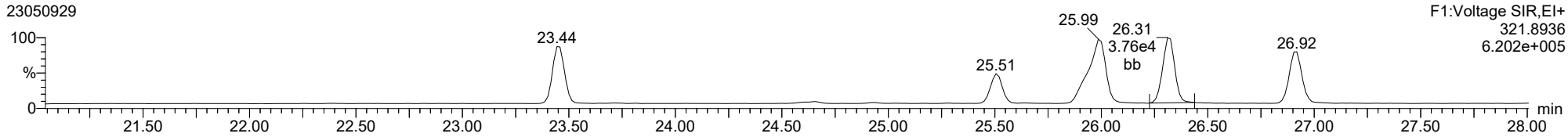
ID: CS3K7, Name: 23050929, Date: 10-May-2023, Time: 12:00:32, Conditions: AUTOSPEC01, User: pk

2378-TCDD



2378-TCDD



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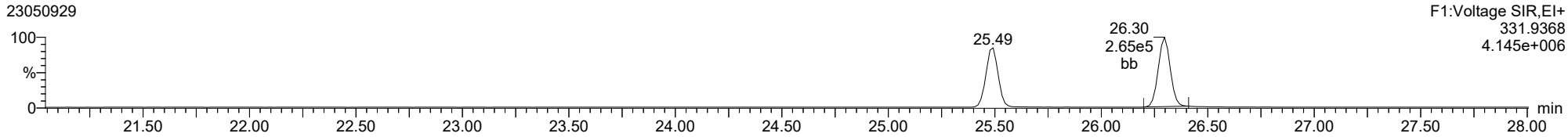

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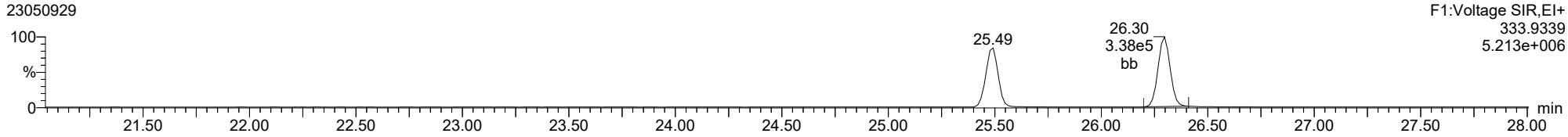
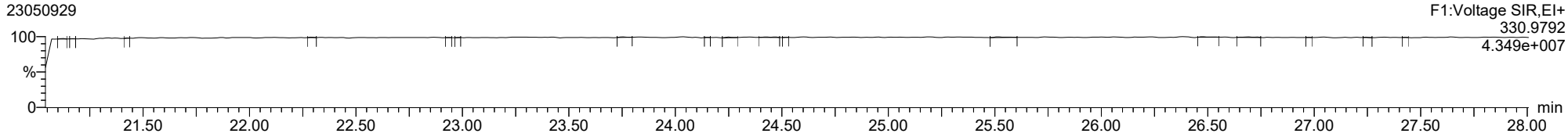


FUNCTION1 PFK



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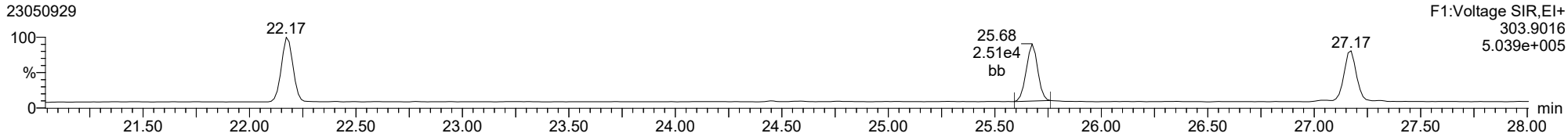
2378-TCDF



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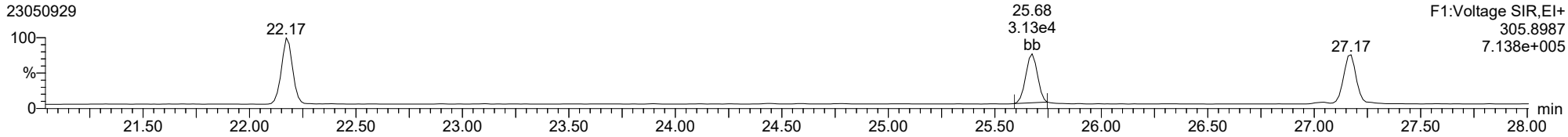

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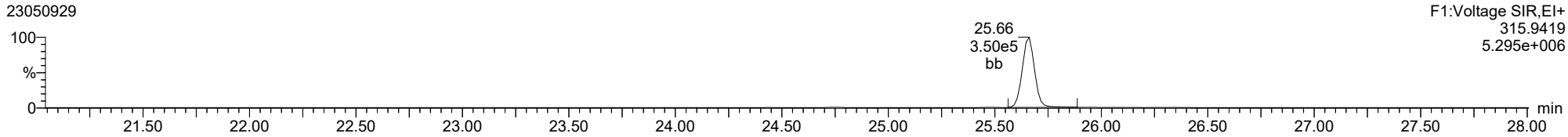

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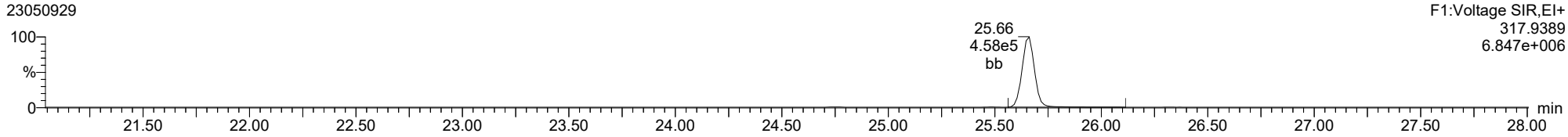

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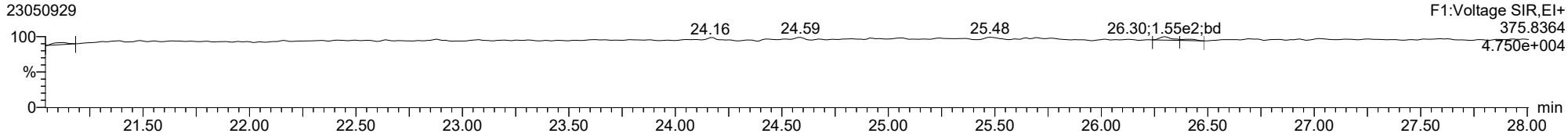

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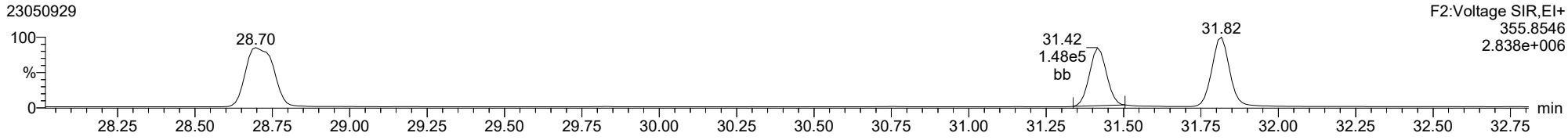
12378-PeCDD



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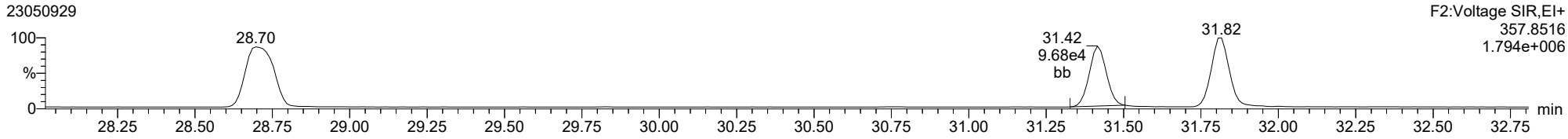

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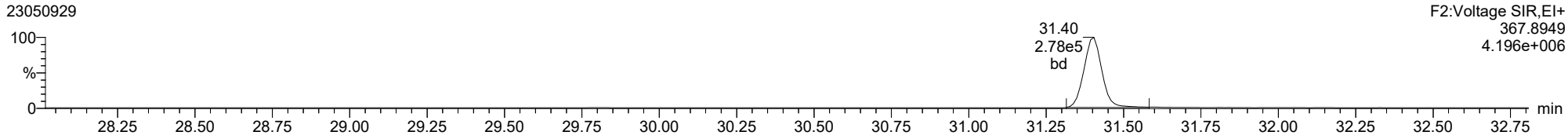

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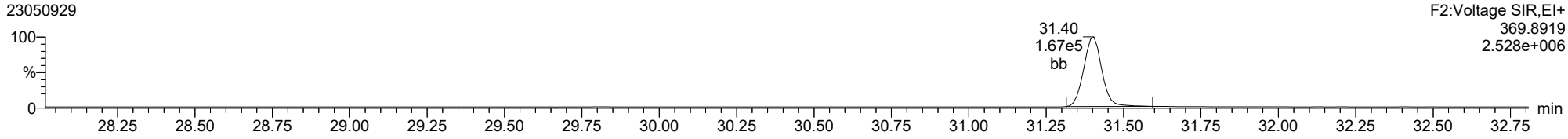

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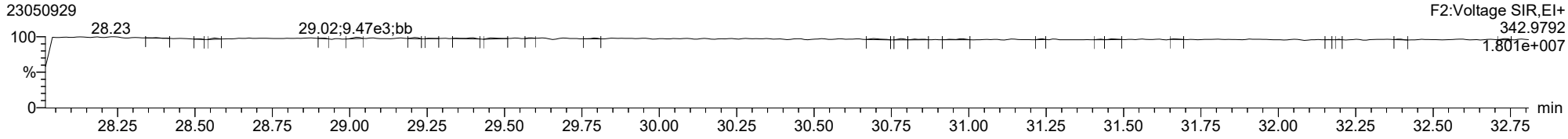

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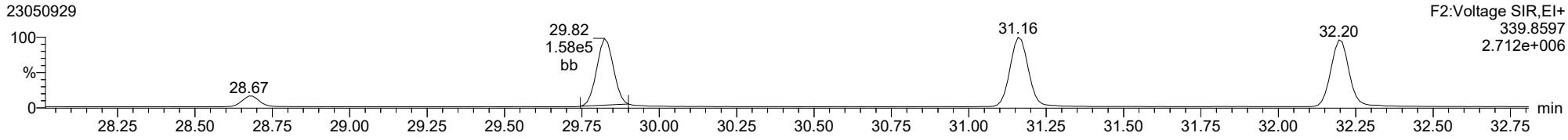

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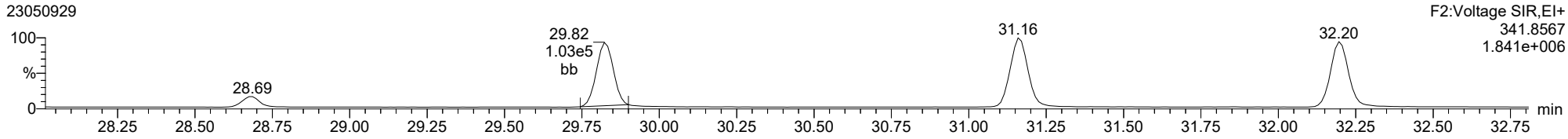

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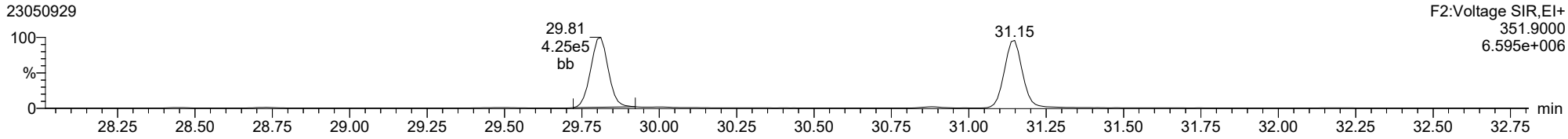

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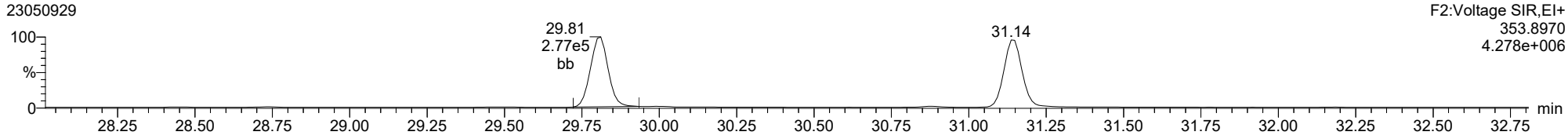
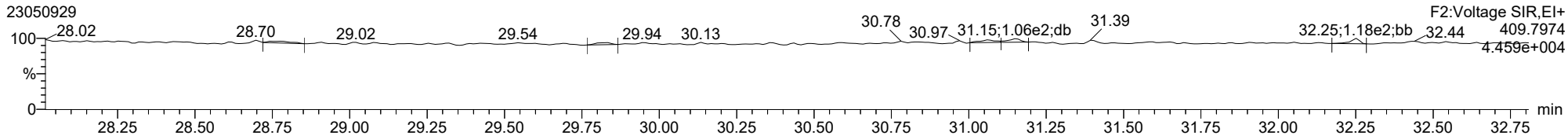


FUNCTION2 HPCDPE



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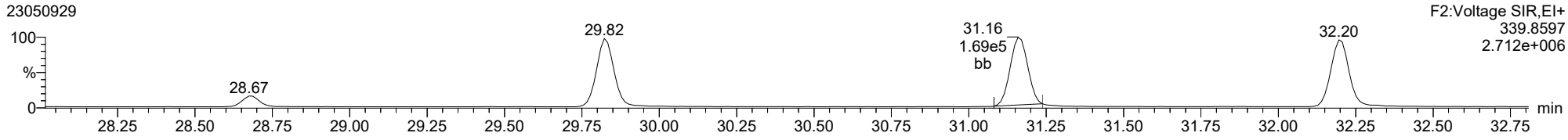

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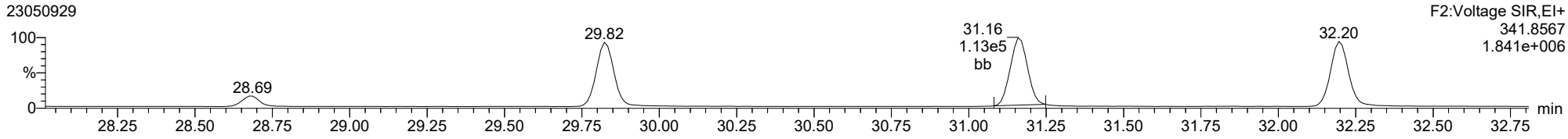

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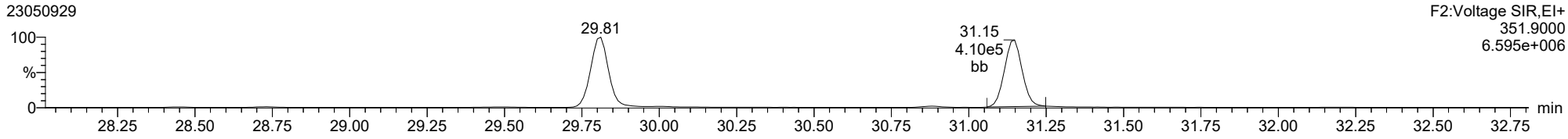

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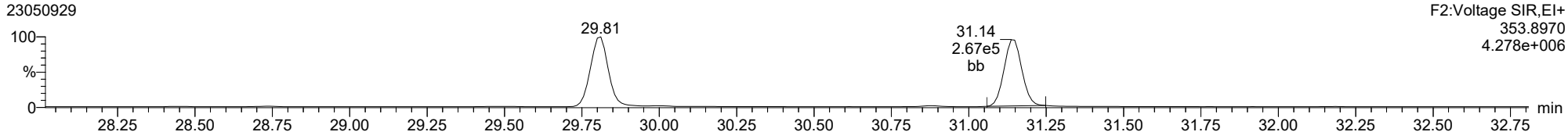

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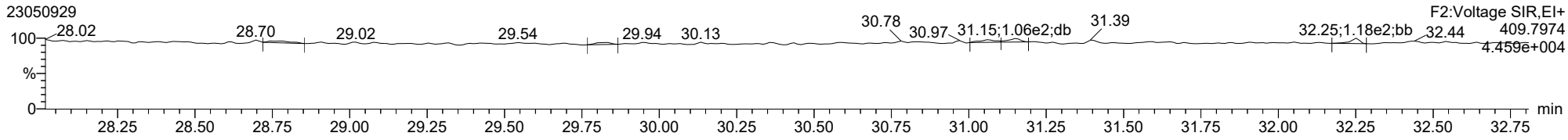

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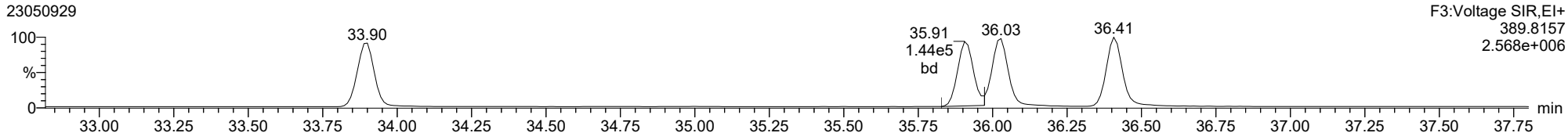

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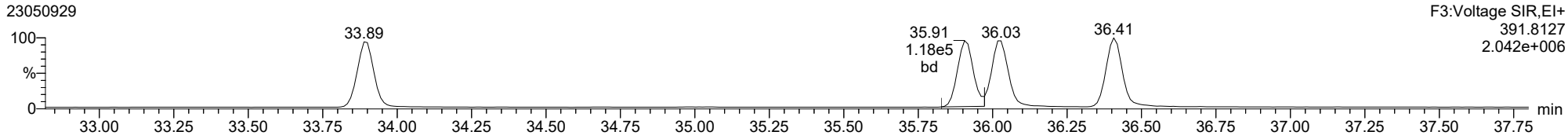

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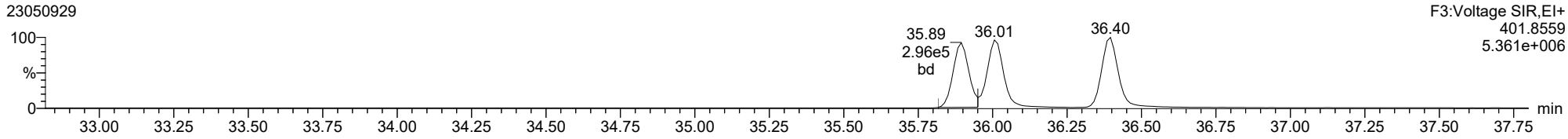

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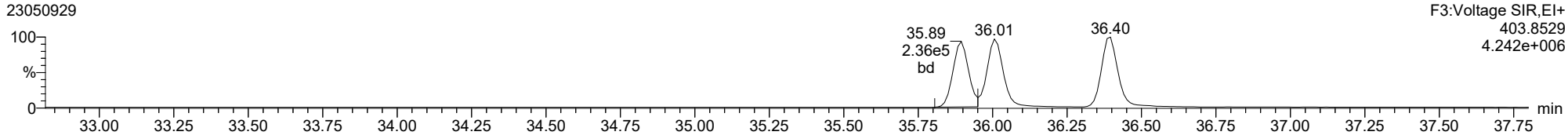

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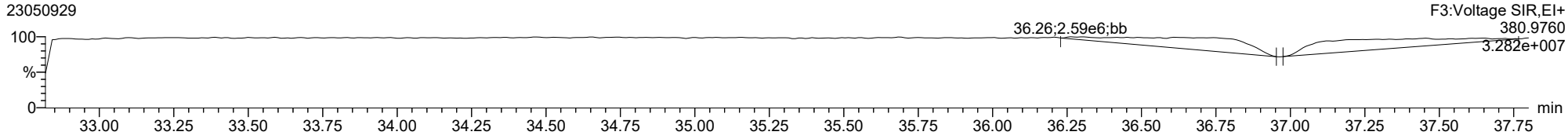

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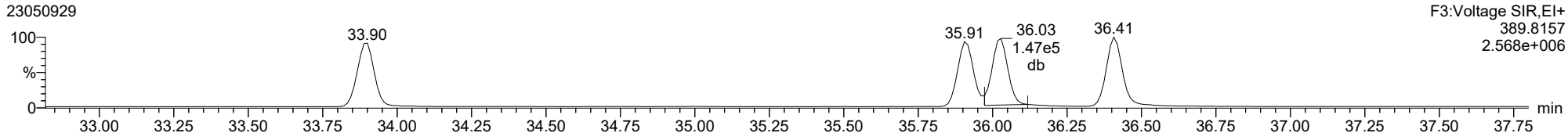

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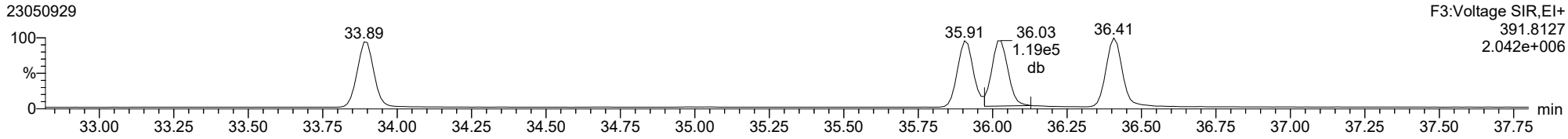

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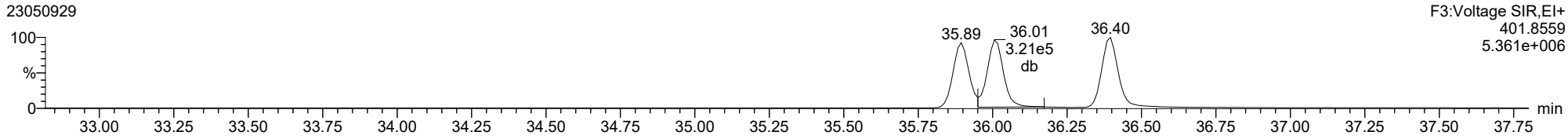

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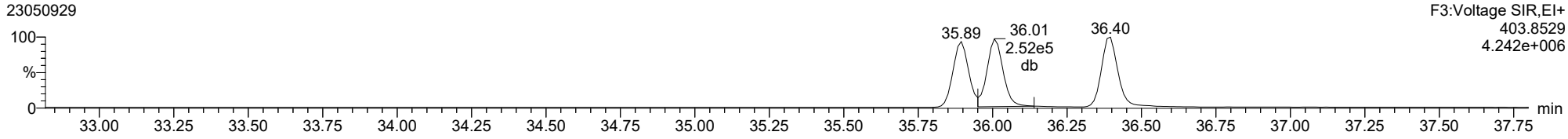

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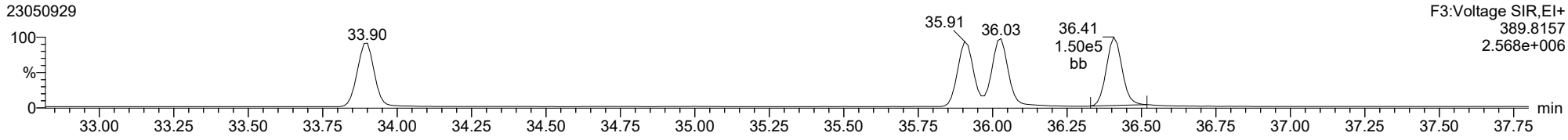

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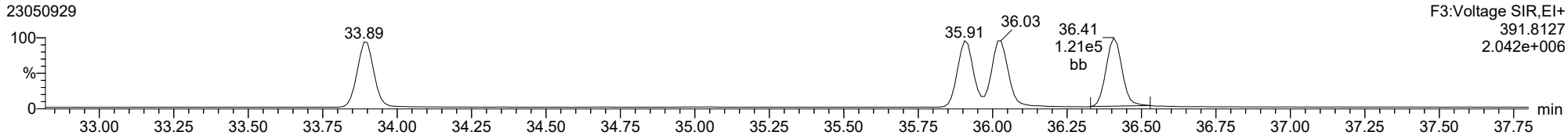

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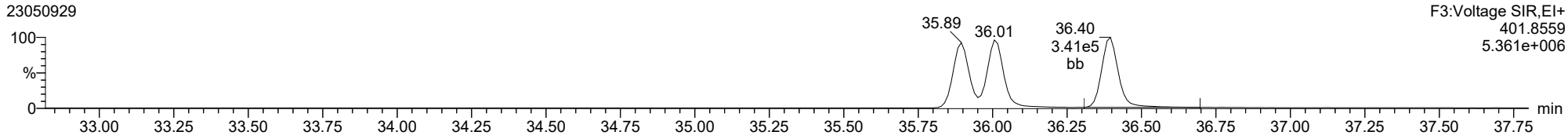

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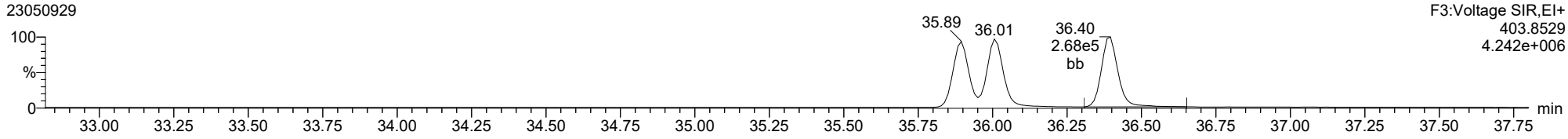

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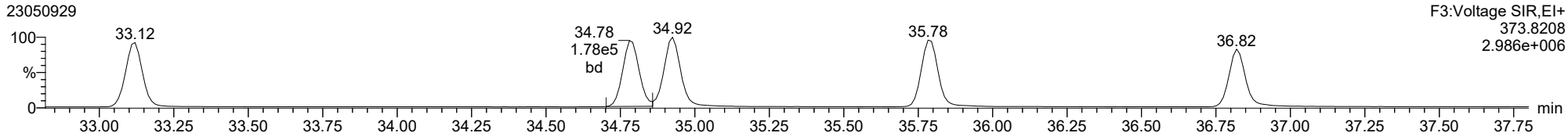

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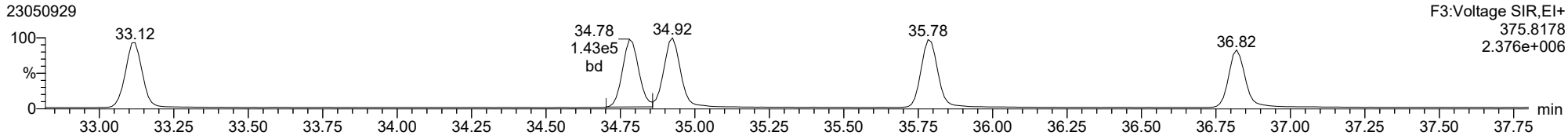

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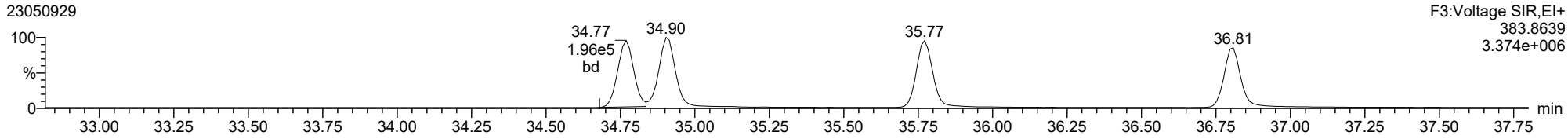

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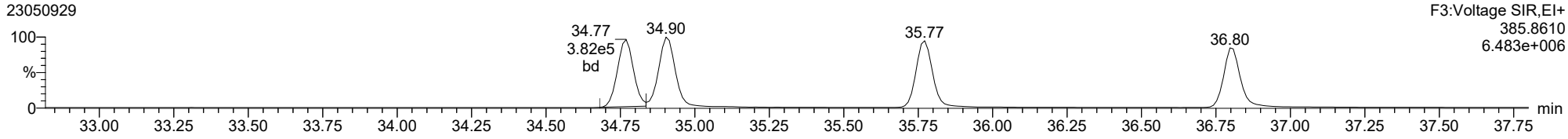

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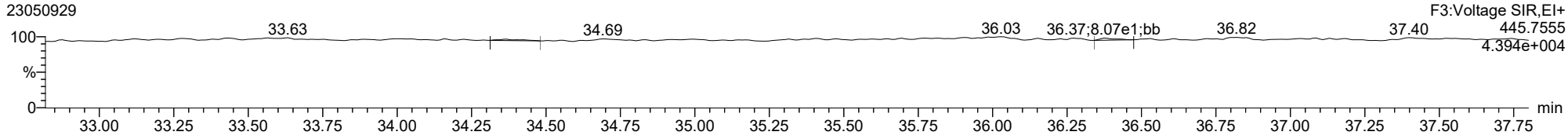

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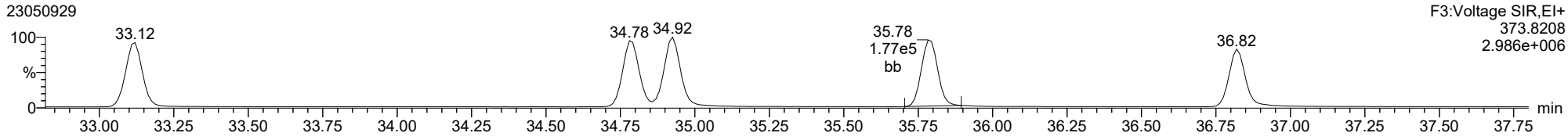
234678-HxCDF



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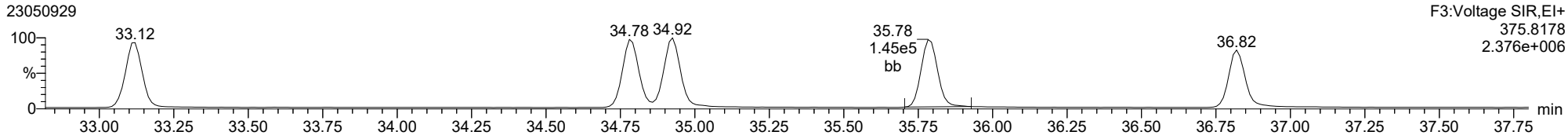

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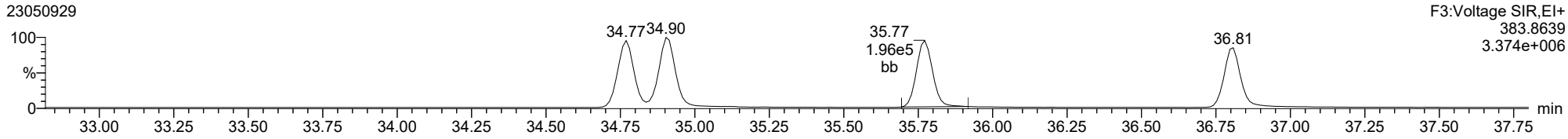

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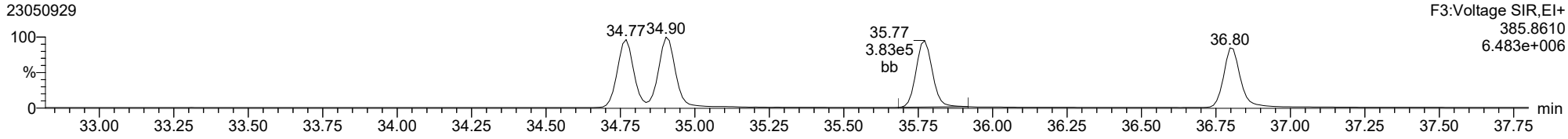
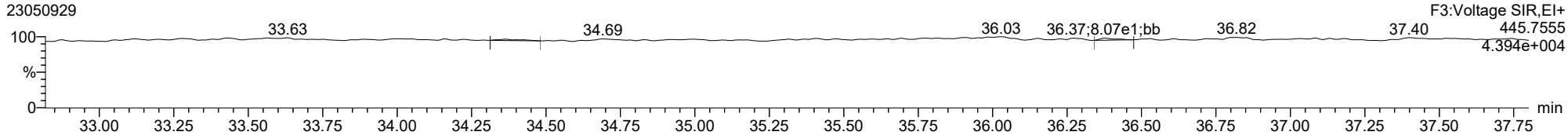


FUNCTION3 OCDPE



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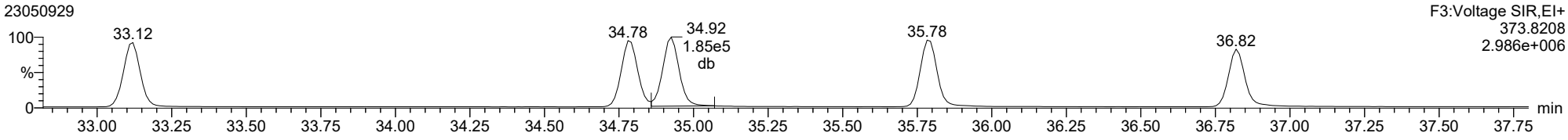

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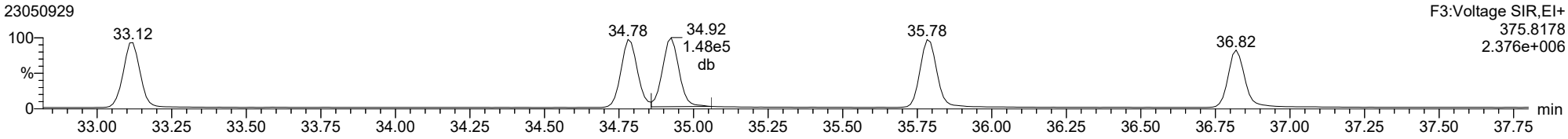

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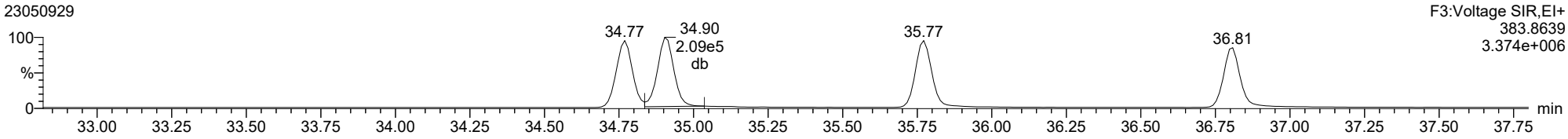

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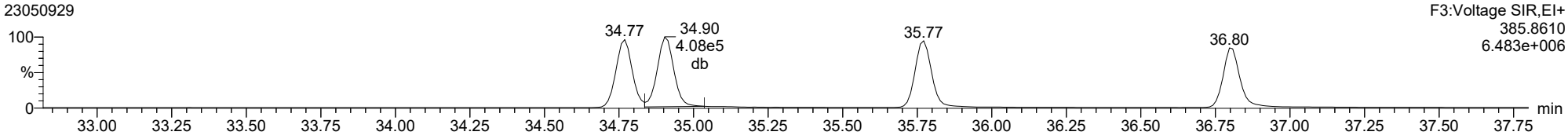

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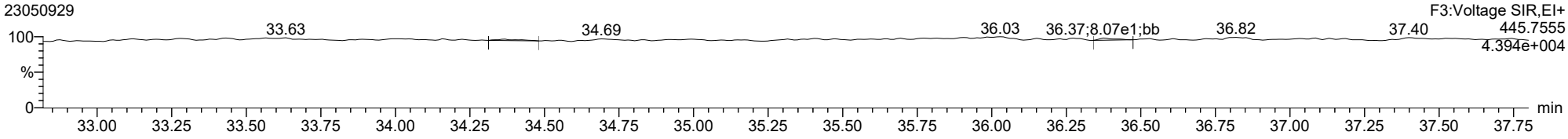

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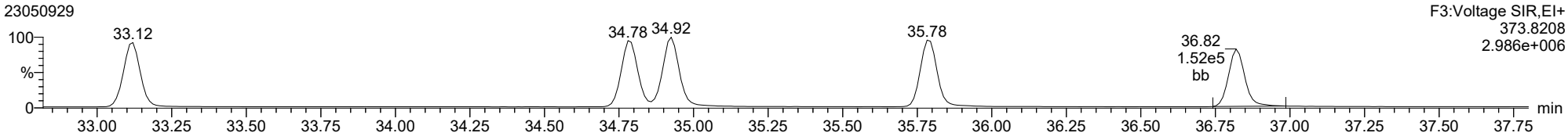

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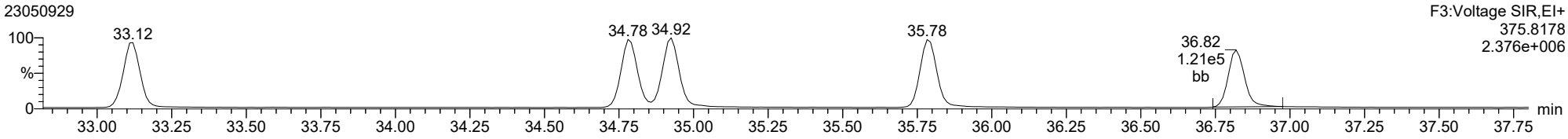

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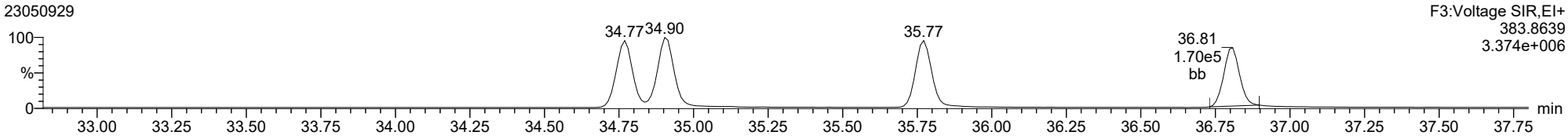

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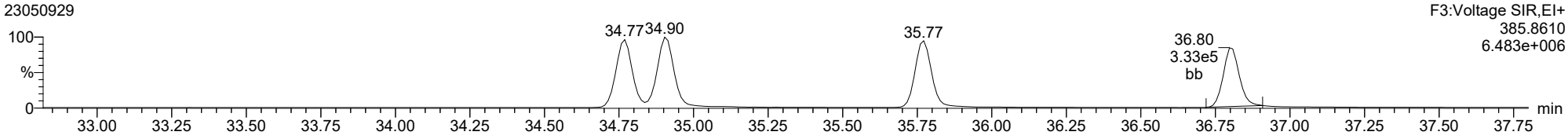

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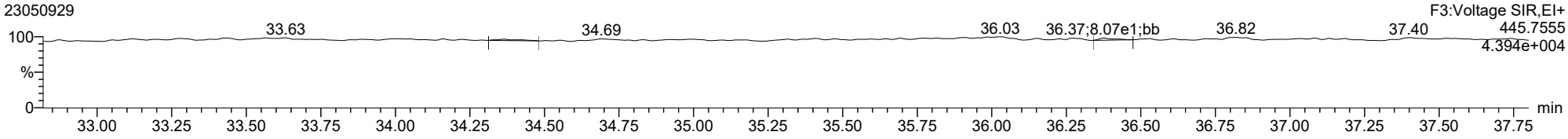

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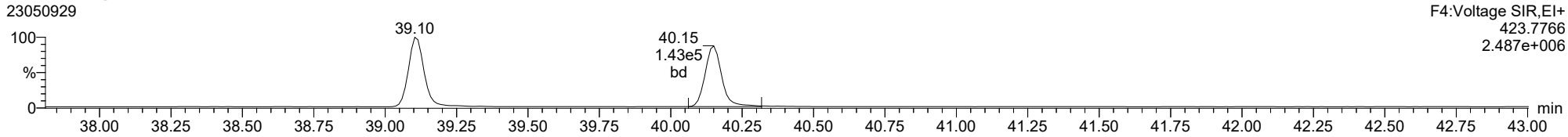

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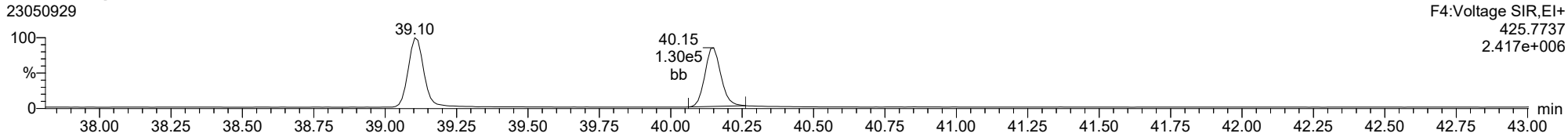

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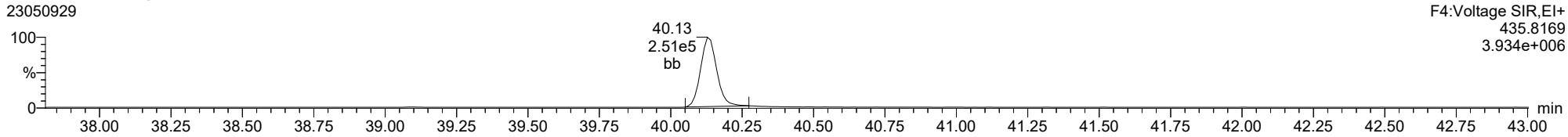

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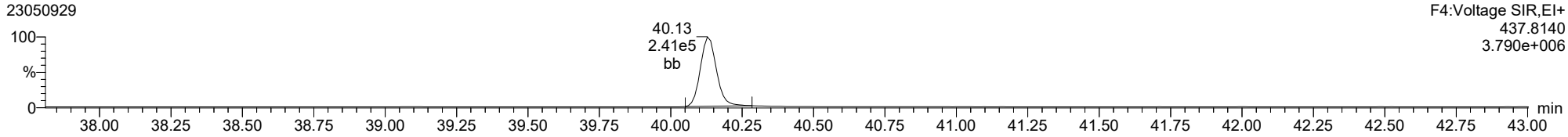

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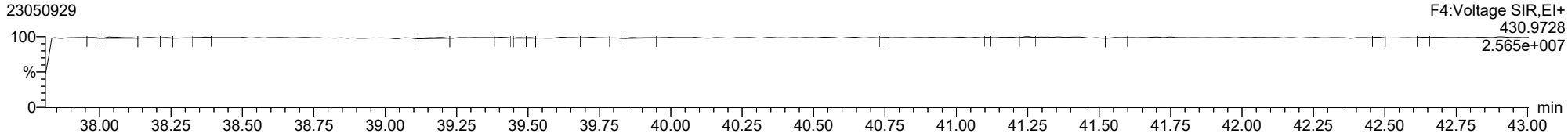

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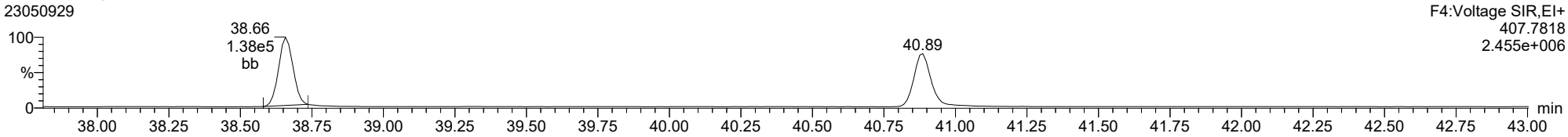

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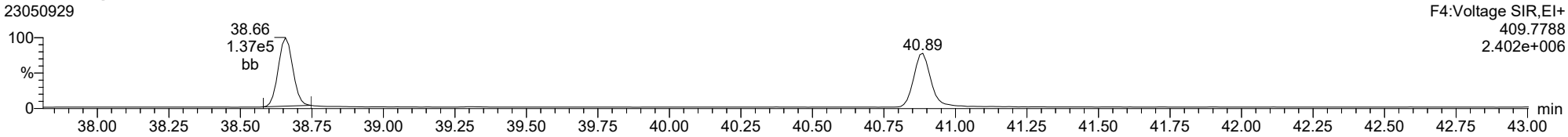

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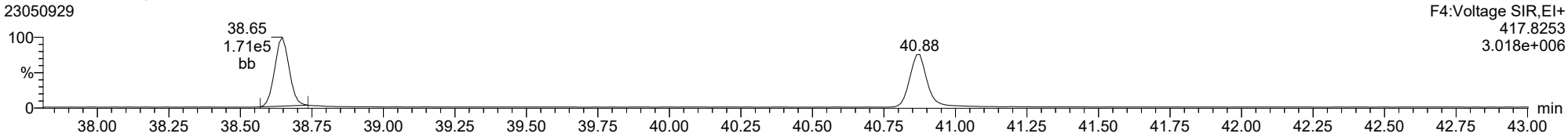

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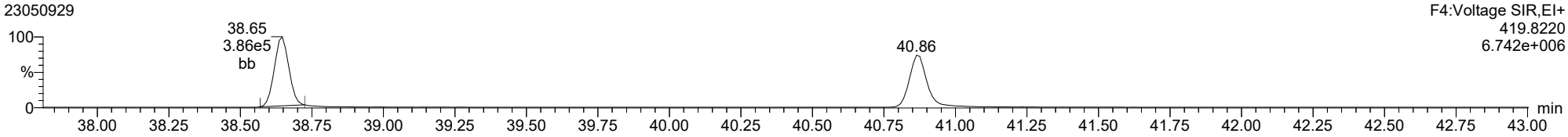

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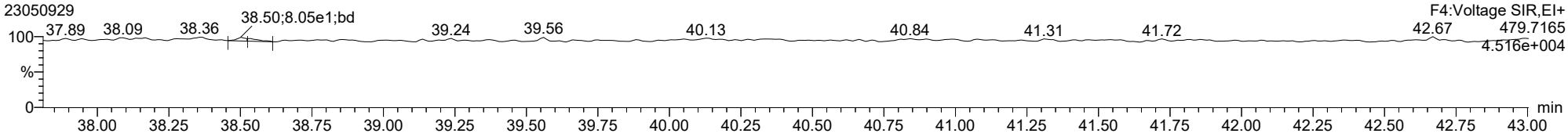

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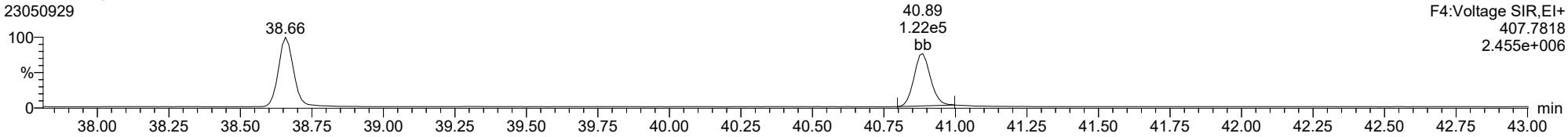

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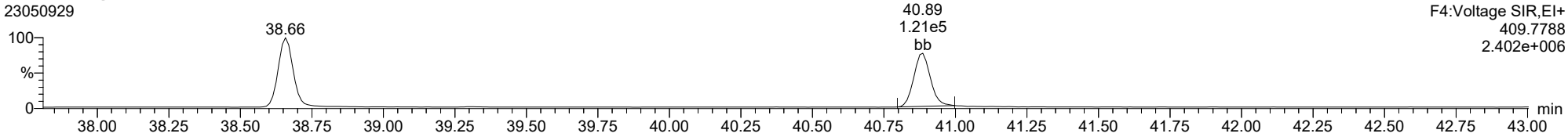

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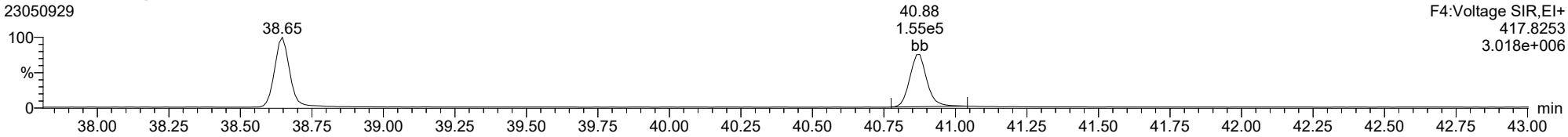

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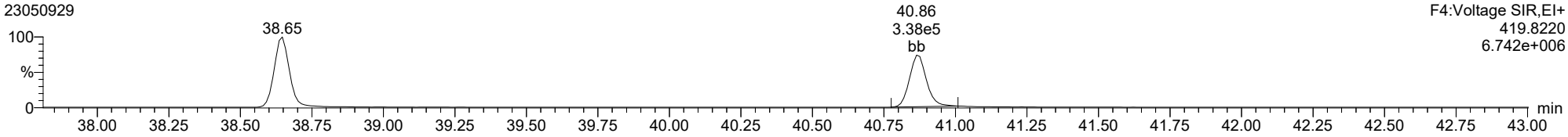

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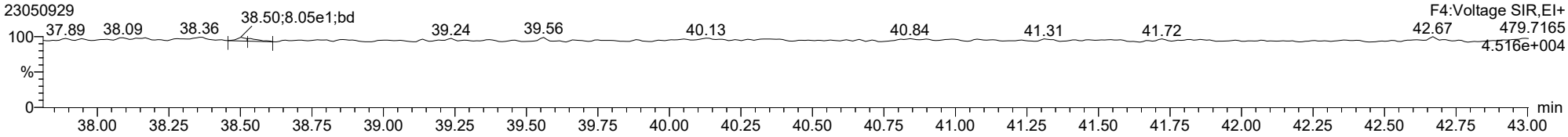

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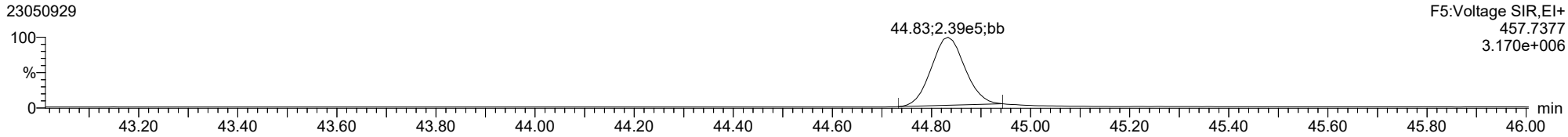

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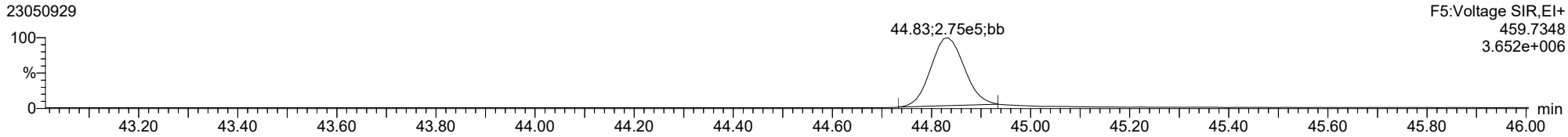

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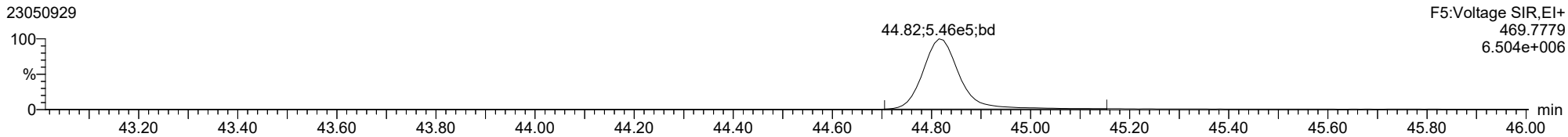

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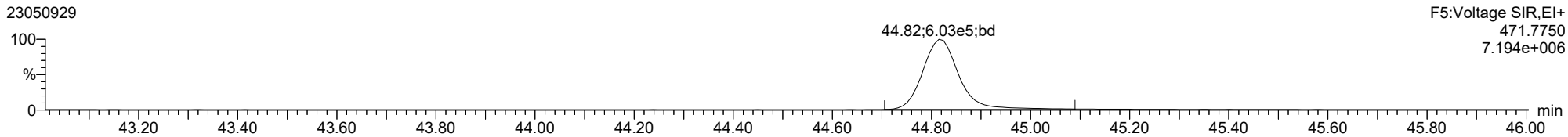

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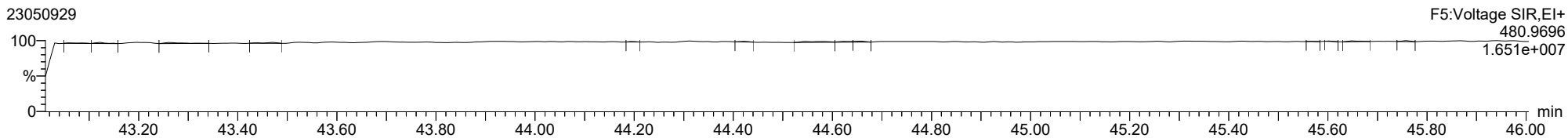

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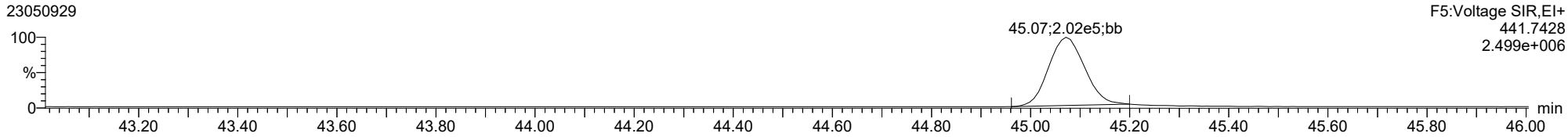

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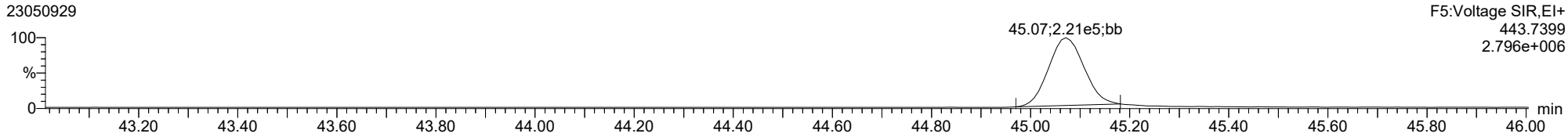

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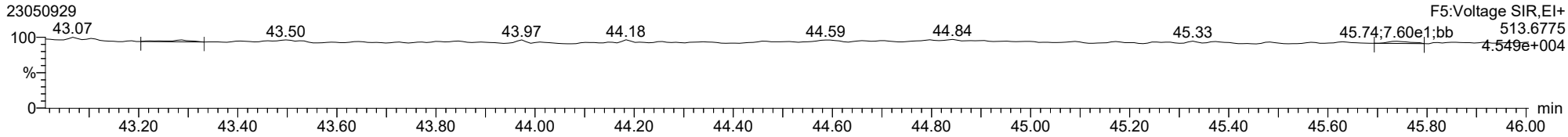

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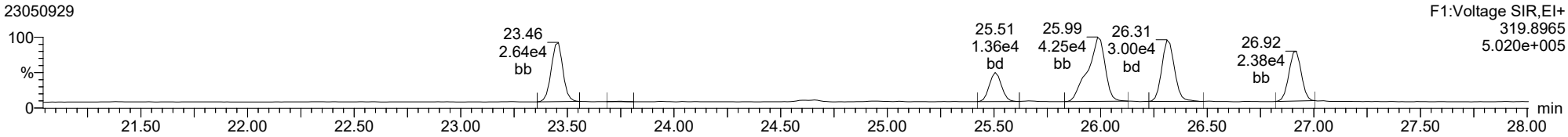
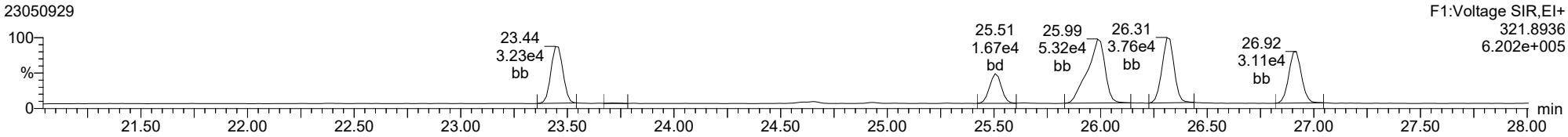


Total-tetradioxins



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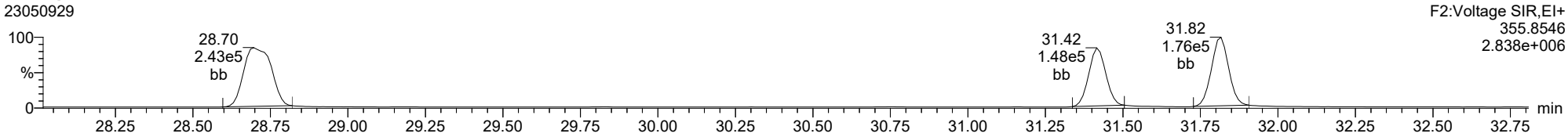

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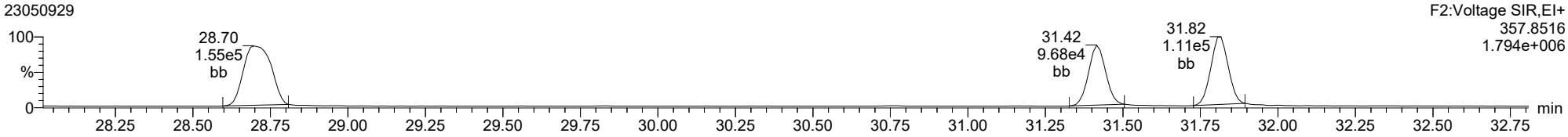

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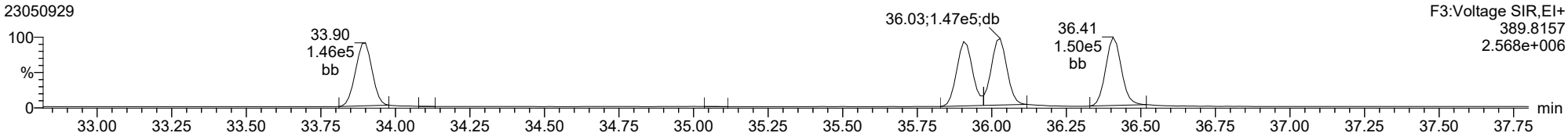

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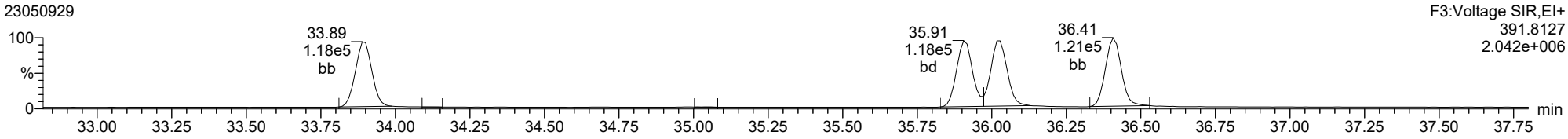

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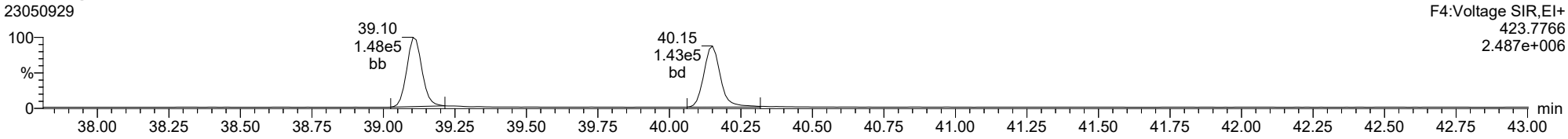

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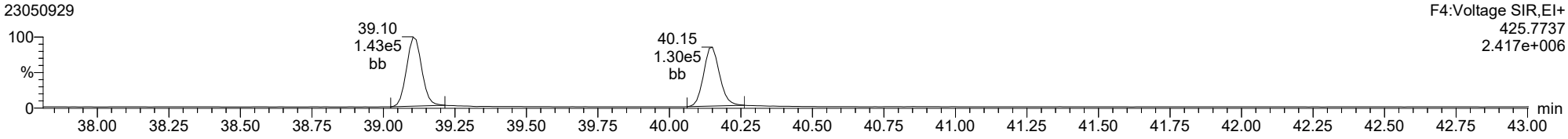

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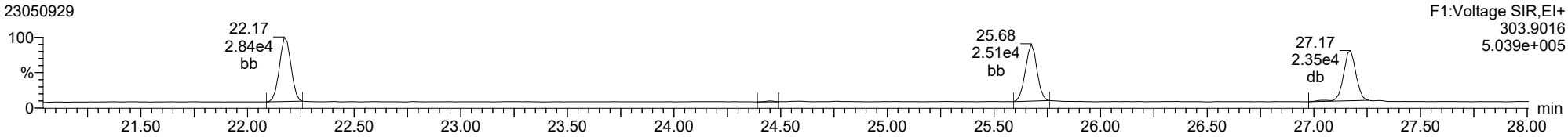
Total-tetrafurans



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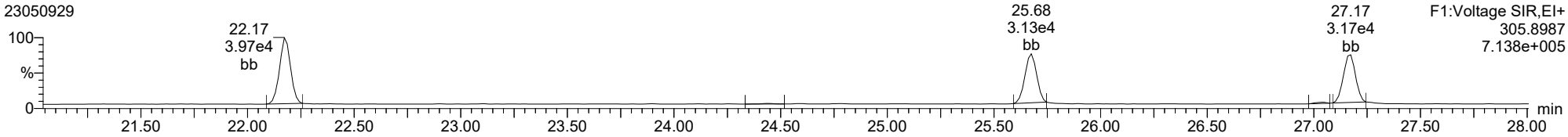

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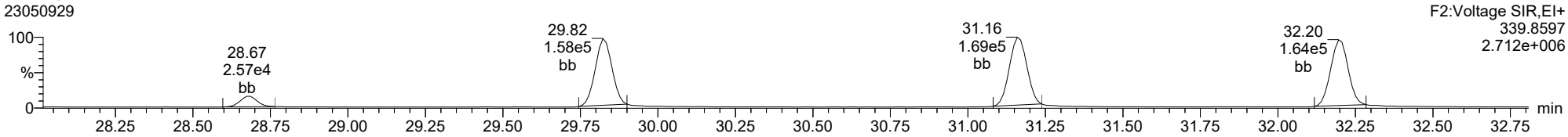

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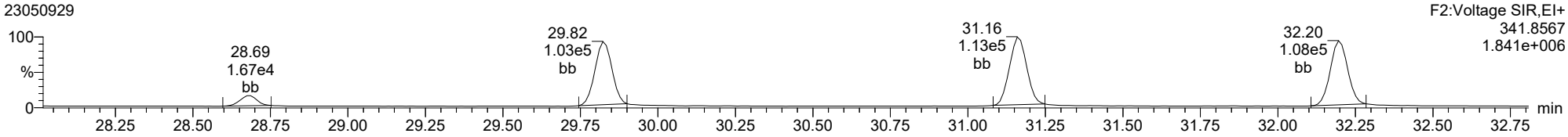

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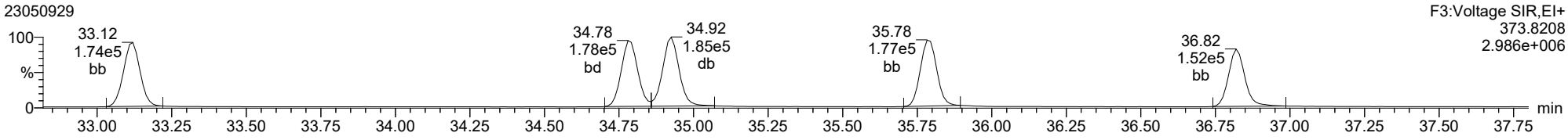

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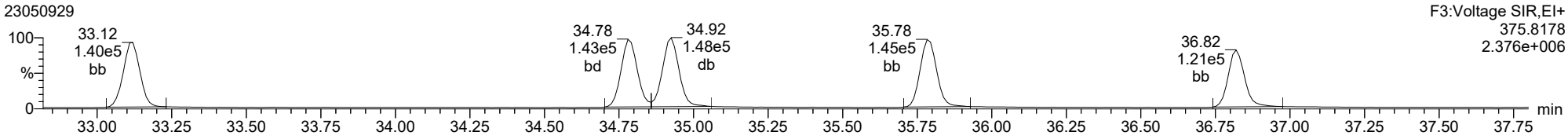

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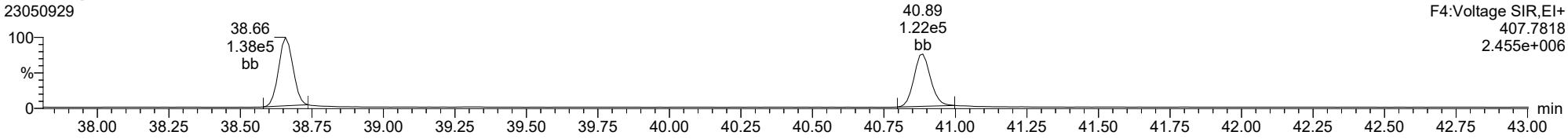

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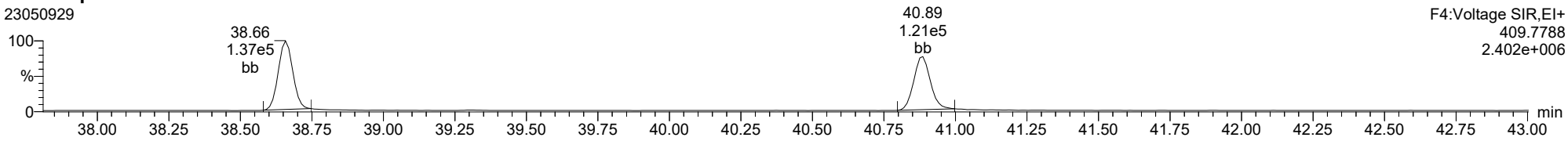

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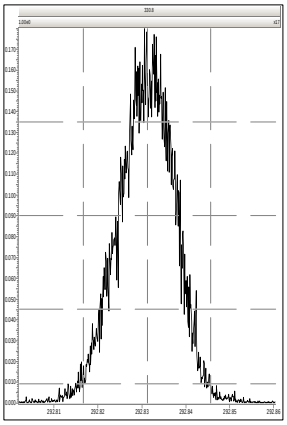

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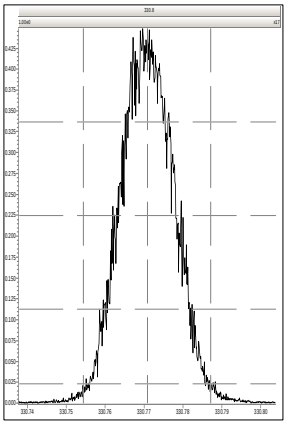
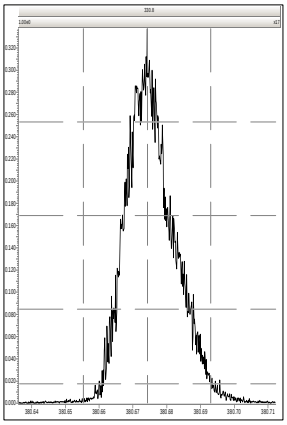
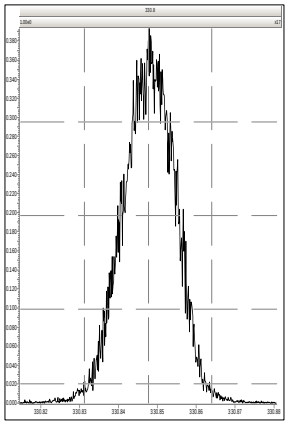


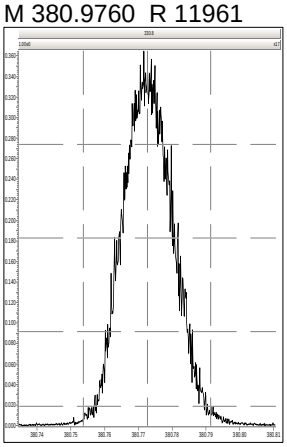
M 380.9760 R 11608



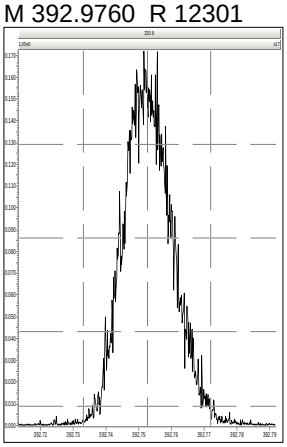
M 330.9792 R 11205



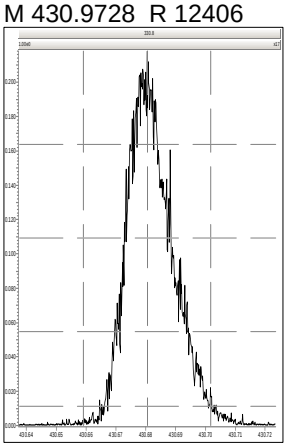
M 380.9760 R 11961



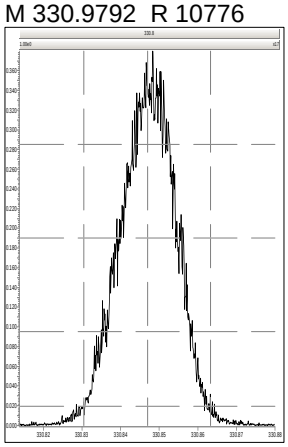
M 392.9760 R 12301



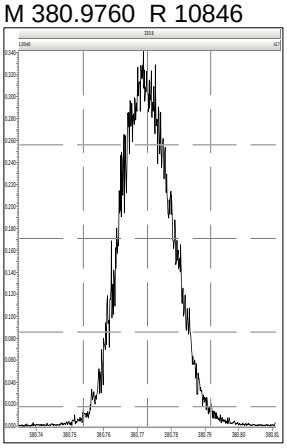
M 430.9728 R 12406



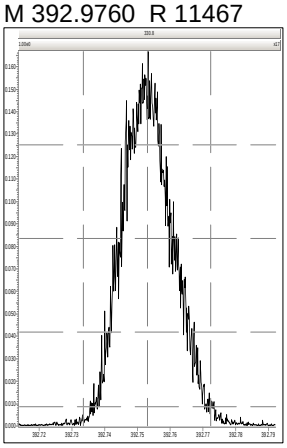
M 330.9792 R 10776



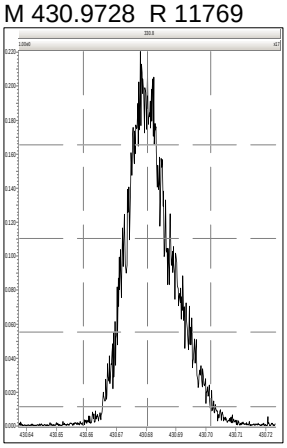
M 380.9760 R 10846



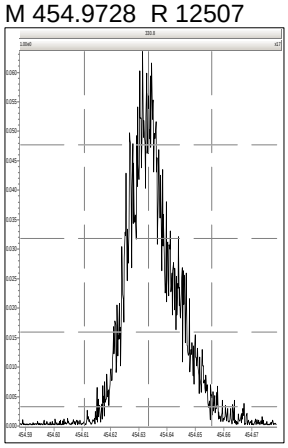
M 392.9760 R 11467



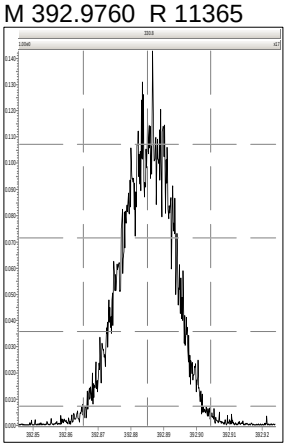
M 430.9728 R 11769



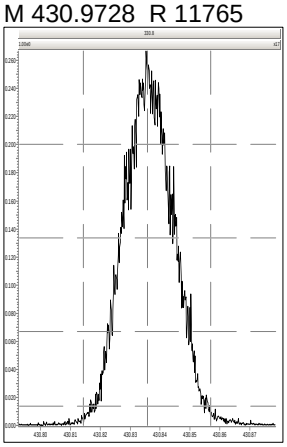
M 454.9728 R 12507



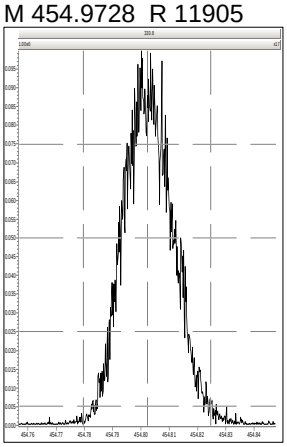
M 392.9760 R 11365



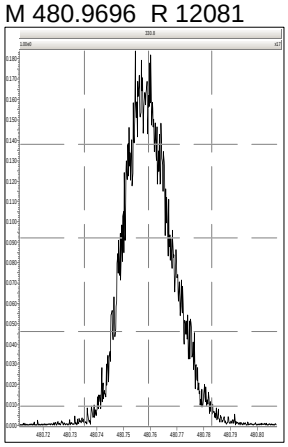
M 430.9728 R 11765



M 454.9728 R 11905

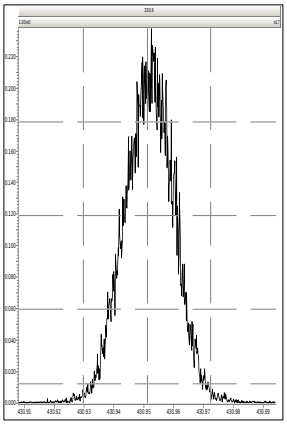


M 480.9696 R 12081

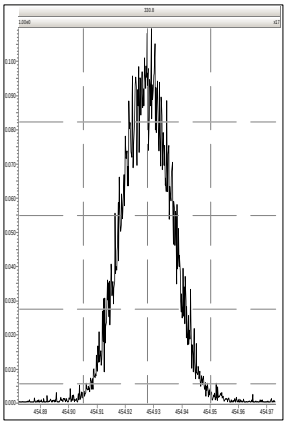


Printed: Wednesday, May 10, 2023 12:53:32 Pacific Daylight Time

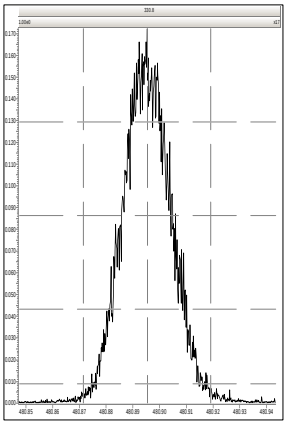
M 430.9728 R 11911



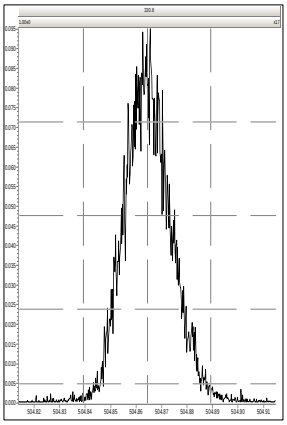
M 454.9728 R 11655



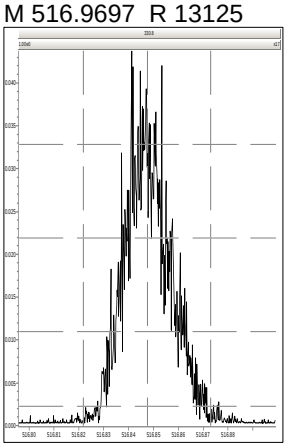
M 480.9696 R 11772

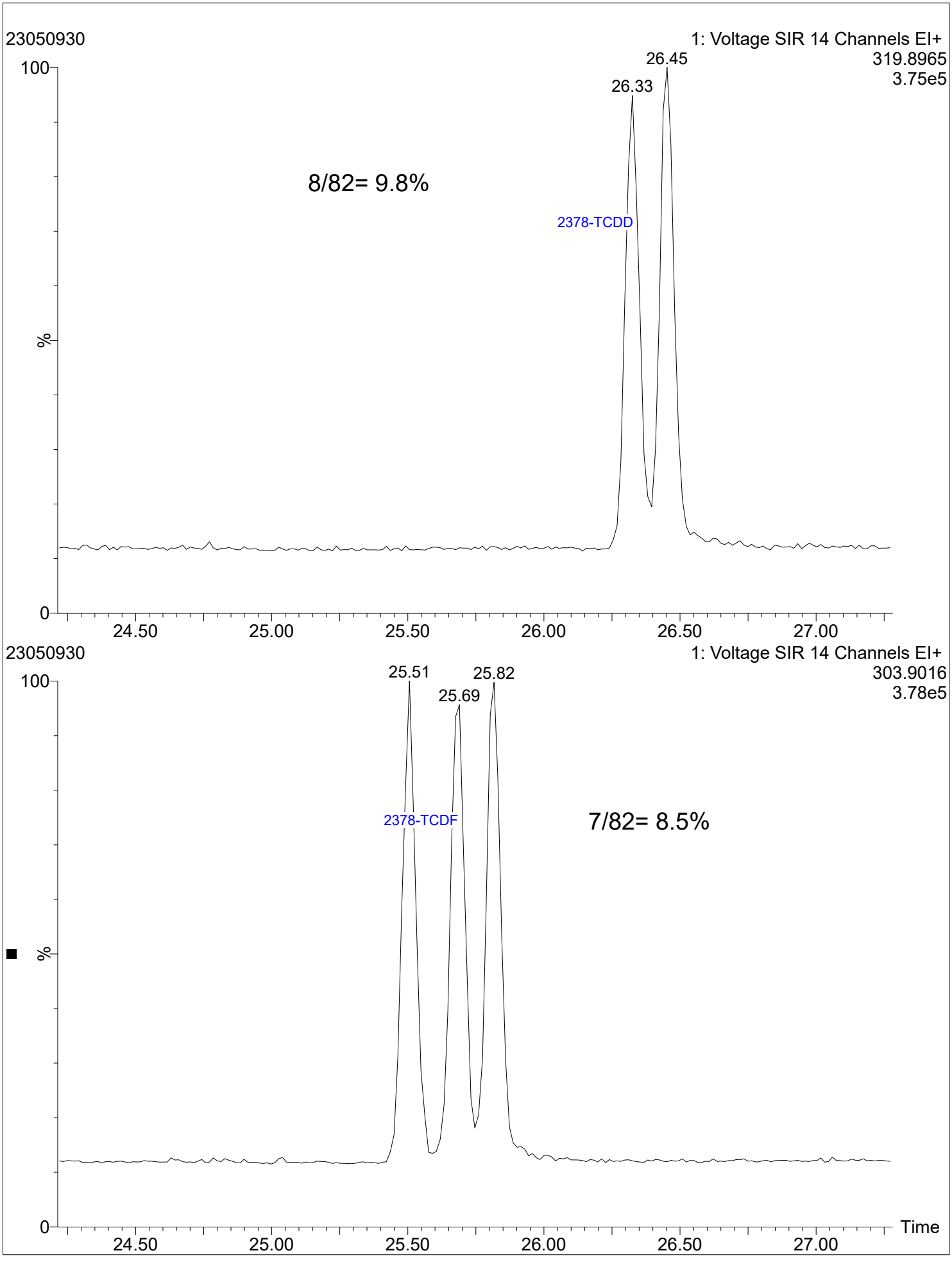


M 504.9696 R 12801



M 516.9697 R 13125




23050930
1: Voltage SIR 14 Channels EI+
319.8965
3.75e5
26.45
26.33
8/82= 9.8%
2378-TCDD
100
%
0
24.50
25.00
25.50
26.00
26.50
27.00
23050930
1: Voltage SIR 14 Channels EI+
303.9016
3.78e5
25.51
25.82
25.69
2378-TCDF
7/82= 8.5%
100
%
0
Time
24.50
25.00
25.50
26.00
26.50
27.00

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 23D0136

Instrument .ID: AUTOSPEC01 Lab File ID: 23030303

Date Analyzed: 03/03/23 Time Analyzed: 10:39

Lab Sample ID: SLC0045-RES1 Sequence: SLC0045

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 8.8

3467-TCDF/2378-TCDF: 8.2

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0045-ICV1	CS3W1	23030302	03/03/2023	09:51
SLC0045-RES1	ISCW1	23030303	03/03/2023	10:39
SLC0045-CAL1	CSLCW	23030304	03/03/2023	11:28
SLC0045-CAL2	CS1CW	23030305	03/03/2023	12:23
SLC0045-CAL3	CS2CW	23030306	03/03/2023	13:16
SLC0045-CAL4	CS3CW	23030307	03/03/2023	14:06
SLC0045-CAL5	CS4CW	23030308	03/03/2023	14:59
SLC0045-CAL6	CS5CW	23030309	03/03/2023	15:47
SLC0045-SCV1	ICVCW	23030310	03/03/2023	16:36
SLC0045-CCV1	CS3V4	23030311	03/03/2023	17:25
SLC0045-RES2	ISCV4	23030312	03/03/2023	18:18

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 23D0136
Instrument .ID: AUTOSPEC01
Lab File ID: 23030312
Date Analyzed: 03/03/23
Time Analyzed: 18:18
Lab Sample ID: SLC0045-RES2
Sequence: SLC0045

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 12.9

3467-TCDF/2378-TCDF: 11.7

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0045-ICV1	CS3W1	23030302	03/03/2023	09:51
SLC0045-RES1	ISCW1	23030303	03/03/2023	10:39
SLC0045-CAL1	CSLCW	23030304	03/03/2023	11:28
SLC0045-CAL2	CS1CW	23030305	03/03/2023	12:23
SLC0045-CAL3	CS2CW	23030306	03/03/2023	13:16
SLC0045-CAL4	CS3CW	23030307	03/03/2023	14:06
SLC0045-CAL5	CS4CW	23030308	03/03/2023	14:59
SLC0045-CAL6	CS5CW	23030309	03/03/2023	15:47
SLC0045-SCV1	ICVCW	23030310	03/03/2023	16:36
SLC0045-CCV1	CS3V4	23030311	03/03/2023	17:25
SLC0045-RES2	ISCV4	23030312	03/03/2023	18:18

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 23D0136

Instrument .ID: AUTOSPEC01 Lab File ID: 23050923

Date Analyzed: 05/10/23 Time Analyzed: 07:03

Lab Sample ID: SLE0060-RES1 Sequence: SLE0060

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 13.5

3467-TCDF/2378-TCDF: 13.3

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
BLD0657-BLK2	Blank	23050121A	05/02/2023	02:53
BLD0657-BS2	LCS	23050122A	05/02/2023	03:42
SLE0060-ICV1	CS3K6	23050922A	05/10/2023	06:11
SLE0060-RES1	ISCK6	23050923	05/10/2023	07:03
BLD0657-SRM1	Reference	23050924	05/10/2023	07:55
23D0136-01	LDW23-SS1804	23050928	05/10/2023	11:11
SLE0060-CCV1	CS3K7	23050929	05/10/2023	12:00
SLE0060-RES2	ISCK7	23050930	05/10/2023	12:53

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 23D0136
Instrument .ID: AUTOSPEC01
Lab File ID: 23050930
Date Analyzed: 05/10/23
Time Analyzed: 12:53
Lab Sample ID: SLE0060-RES2
Sequence: SLE0060

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 9.8

3467-TCDF/2378-TCDF: 8.5

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
BLD0657-BLK2	Blank	23050121A	05/02/2023	02:53
BLD0657-BS2	LCS	23050122A	05/02/2023	03:42
SLE0060-ICV1	CS3K6	23050922A	05/10/2023	06:11
SLE0060-RES1	ISCK6	23050923	05/10/2023	07:03
BLD0657-SRM1	Reference	23050924	05/10/2023	07:55
23D0136-01	LDW23-SS1804	23050928	05/10/2023	11:11
SLE0060-CCV1	CS3K7	23050929	05/10/2023	12:00
SLE0060-RES2	ISCK7	23050930	05/10/2023	12:53

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
		Calibration:	GC00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3W1	SLC0045-ICV1	23030302	NA	03/03/23 09:51
ISCW1	SLC0045-RES1	23030303	NA	03/03/23 10:39
CSLCW	SLC0045-CAL1	23030304	NA	03/03/23 11:28
CS1CW	SLC0045-CAL2	23030305	NA	03/03/23 12:23
CS2CW	SLC0045-CAL3	23030306	NA	03/03/23 13:16
CS3CW	SLC0045-CAL4	23030307	NA	03/03/23 14:06
CS4CW	SLC0045-CAL5	23030308	NA	03/03/23 14:59
CS5CW	SLC0045-CAL6	23030309	NA	03/03/23 15:47
ICVCW	SLC0045-SCV1	23030310	NA	03/03/23 16:36
CS3V4	SLC0045-CCV1	23030311	NA	03/03/23 17:25
ISCV4	SLC0045-RES2	23030312	NA	03/03/23 18:18

Analytical Resources, LLC
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Printed: 3/6/2023 2:56:51PM

ANALYSIS SEQUENCE

SLC0045

Instrument: AUTOSPEC01 HRGCMS Column ID: K2310
Calibration ID: GC00015 Tune File: FEB0923_1-5
EM Voltage: 350 Resolution check times : 9:51, 18:18

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0045-ICV1	CS3W1	QC		1	K009821		03/03/2023 09:51	23030302	PK	
SLC0045-RES1	ISCW1	QC		2	L002084		03/03/2023 10:39	23030303	PK	
SLC0045-CAL1	CSLCW	QC		3	I005460		03/03/2023 11:28	23030304	PK	
SLC0045-CAL2	CS1CW	QC		4	I005456		03/03/2023 12:23	23030305	PK	
SLC0045-CAL3	CS2CW	QC		5	I005457		03/03/2023 13:16	23030306	PK	
SLC0045-CAL4	CS3CW	QC		6	K009821		03/03/2023 14:06	23030307	PK	
SLC0045-CAL5	CS4CW	QC		7	I005458		03/03/2023 14:59	23030308	PK	
SLC0045-CAL6	CS5CW	QC		8	I005459		03/03/2023 15:47	23030309	PK	
SLC0045-SCV1	ICVCW	QC		9	H008219		03/03/2023 16:36	23030310	PK	
SLC0045-CCV1	CS3V4	QC		10	K009821		03/03/2023 17:25	23030311	PK	
SLC0045-RES2	ISCV4	QC		11	L002084		03/03/2023 18:18	23030312	PK	

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 10:58:44 Pacific Standard Time

3/6/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23030304, Compound:TD, RT:26.410	1
Peak deleted	Sample:23030304, Compound:OD, RT:44.990	1
Peak deleted	Sample:23030304, Compound:TF, RT:25.774	1
Pre modification peak	Sample:23030305, Compound:TF, RT:25.774	2
Peak modified	Sample:23030305, Compound:TF, RT:25.774	2
Pre modification peak	Sample:23030304, Compound:HPD, RT:40.261	1
Peak modified	Sample:23030304, Compound:HPD, RT:40.261	1
Peak deleted	Sample:23030308, Compound:PF, RT:32.328	5
Peak deleted	Sample:23030309, Compound:PF, RT:32.307	6
Peak deleted	Sample:23030309, Compound:HF, RT:33.220	6
Peak deleted	Sample:23030309, Compound:TD, RT:27.017	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.995	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.917	6
Peak deleted	Sample:23030308, Compound:HD, RT:34.000	5
Peak deleted	Sample:23030308, Compound:HPD, RT:39.225	5
Peak deleted	Sample:23030309, Compound:HPD, RT:39.214	6
Pre modification peak	Sample:23030305, Compound:OF, RT:45.237	2
Peak modified	Sample:23030305, Compound:OF, RT:45.237	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230303ICIH.qld'	

Analytical Resources, LLC
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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
		Calibration:	GC00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Blank	BLD0657-BLK2	23050121A	Solid	05/02/23 02:53
LCS	BLD0657-BS2	23050122A	Solid	05/02/23 03:42
CS3K6	SLE0060-ICV1	23050922A	NA	05/10/23 06:11
ISCK6	SLE0060-RES1	23050923	NA	05/10/23 07:03
Reference	BLD0657-SRM1	23050924	Solid	05/10/23 07:55
LDW23-SS1804	23D0136-01	23050928	Solid	05/10/23 11:11
CS3K7	SLE0060-CCV1	23050929	NA	05/10/23 12:00
ISCK7	SLE0060-RES2	23050930	NA	05/10/23 12:53

ANALYSIS SEQUENCE

SLE0060

Instrument: AUTOSPEC01 HRGCMS Column ID: L2313
Calibration ID: GC00015 Tune File: mar2023_1-5
EM Voltage: 350 Resolution check times : 07:03, 12:53

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLE0060-ICV1	CS3K6	QC		1	K009821		05/10/2023 06:11	23050922A	PK	
SLE0060-RES1	ISCK6	QC		2	L002084		05/10/2023 07:03	23050923	PK	
BLD0657-BLK2	Blank	QC		3		K011414	05/02/2023 02:53	23050121A	PK	
BLD0657-BS2	LCS	QC		4		K011414	05/02/2023 03:42	23050122A	PK	
BLD0657-SRM1	Reference	QC		5		K011414	05/10/2023 07:55	23050924	PK	
BLD0657-DUP1	Duplicate	QC		6		K011414	05/10/2023 08:44	23050925	PK	
23D0063-01	LDW23-SS1818	1613B Dioxin	C 02	7		K011414	05/10/2023 09:33	23050926	PK	
23D0136-01	LDW23-SS1804	1613B Dioxin	A 06	8		K011414	05/10/2023 11:11	23050928	PK	
SLE0060-CCV1	CS3K7	QC		9	K009821		05/10/2023 12:00	23050929	PK	
SLE0060-RES2	ISCK7	QC		10	L002084		05/10/2023 12:53	23050930	PK	

Dataset: T:\Autospec\Processed Data Batch\230509IHA.qld
Last Altered: Wednesday, May 10, 2023 16:18:06 Pacific Daylight Time
Printed: Wednesday, May 10, 2023 16:21:36 Pacific Daylight Time 5/10/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23050930, Compound:13C-123789-HxCDD, RT:36.373	9
Pre modification peak	Sample:23050924, Compound:PF, RT:31.192	3
Peak modified	Sample:23050924, Compound:PF, RT:31.192	3
Pre modification peak	Sample:23050924, Compound:HD, RT:36.072	3
Peak modified	Sample:23050924, Compound:HD, RT:36.072	3
Pre modification peak	Sample:23050925, Compound:HF, RT:35.905	4
Peak modified	Sample:23050925, Compound:HF, RT:35.905	4
Peak added	Sample:23050925, Compound:HF, RT:35.905	4
Peak added	Sample:23050925, Compound:HF, RT:35.883	4
Peak modified	Sample:23050925, Compound:HF, RT:35.905	4
Pre modification peak	Sample:23050926, Compound:HF, RT:34.802	5
Peak modified	Sample:23050926, Compound:HF, RT:34.802	5
Peak deleted	Sample:23050926, Compound:HF, RT:34.925	5
Peak deleted	Sample:23050926, Compound:HD, RT:36.039	5
Pre modification peak	Sample:23050927, Compound:HF, RT:35.849	6
Peak modified	Sample:23050927, Compound:HF, RT:35.849	6
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230509IHA.qld'	
Peak deleted	Sample:23050924, Compound:TF, RT:25.195	3
Peak deleted	Sample:23050924, Compound:TF, RT:25.011	3
Peak deleted	Sample:23050925, Compound:TF, RT:26.777	4
Peak deleted	Sample:23050925, Compound:TF, RT:26.226	4
Peak added	Sample:23050925, Compound:HF, RT:35.861	4
Peak added	Sample:23050925, Compound:HF, RT:35.871	4
Peak modified	Sample:23050925, Compound:HF, RT:35.871	4
Peak deleted	Sample:23050927, Compound:TF, RT:26.749	6
Peak deleted	Sample:23050927, Compound:TD, RT:25.223	6
Peak deleted	Sample:23050928, Compound:HPF, RT:40.183	7
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230509IHA.qld'	

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
Sample ID:	SLC0045-ICV1	Calibration:	GC00015
File ID:	23030302	Analyzed:	03/03/23 09:51

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	94.0	71 - 129	25.7745	25.76487	0.0096	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.4242	26.40287	0.0213	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	92.2	76 - 124	29.9337	29.92235	0.0114	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	87.6	77 - 123	31.2707	31.2611	0.0096	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	84.3	62 - 138	31.5268	31.5192	0.0076	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	84.0	76 - 124	34.8915	34.88393	0.0076	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	74.6	70 - 130	35.0363	35.02318	0.0131	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	88.7	73 - 127	35.8942	35.88653	0.0077	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	99.9	74 - 126	36.9303	36.91718	0.0131	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	93.5	85 - 115	36.0167	36.00728	0.0094	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	86.9	85 - 115	36.1393	36.12053	0.0188	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	95.3	78 - 122	38.7685	38.7593	0.0092	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.7	77 - 123	41.008	40.99867	0.0093	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	105	72 - 128	40.2615	40.25773	0.0038	N/A	
13C12-OCDD	200.00	107	48 - 152	44.9993	44.98705	0.0122	N/A	
37Cl4-2,3,7,8-TCDD	10.000	90.5	0 - 200	26.4383	26.42402	0.0143	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
Sample ID:	SLC0045-SCV1	Calibration:	GC00015
File ID:	23030310	Analyzed:	03/03/23 16:36

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	96.9	0 - 200	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	96.6	0 - 200	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	0 - 200	29.9225	29.92235	0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	0 - 200	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	0 - 200	31.5155	31.5192	-0.0037	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	0 - 200	34.8802	34.88393	-0.0037	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	0 - 200	35.014	35.02318	-0.0092	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	0 - 200	35.8828	35.88653	-0.0037	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	0 - 200	36.9078	36.91718	-0.0094	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	0 - 200	36.0053	36.00728	-0.0020	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	0 - 200	36.1168	36.12053	-0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	0 - 200	38.7573	38.7593	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	0 - 200	40.9967	40.99867	-0.0020	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	0 - 200	40.2502	40.25773	-0.0075	N/A	
13C12-OCDD	200.00	80.8	0 - 200	44.9807	44.98705	-0.0064	N/A	
37Cl4-2,3,7,8-TCDD	10.000	87.1	0 - 200	26.4242	26.42402	0.0002	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
Sample ID:	SLC0045-CCV1	Calibration:	GC00015
File ID:	23030311	Analyzed:	03/03/23 17:25

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	89.4	71 - 129	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	86.0	82 - 118	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	92.6	76 - 124	29.9225	29.92235	0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	91.6	77 - 123	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	90.8	62 - 138	31.5157	31.5192	-0.0035	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	95.2	76 - 124	34.8805	34.88393	-0.0034	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	91.1	70 - 130	35.0253	35.02318	0.0021	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	96.9	73 - 127	35.883	35.88653	-0.0035	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	101	74 - 126	36.9193	36.91718	0.0021	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.6	85 - 115	36.0057	36.00728	-0.0016	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	98.4	85 - 115	36.117	36.12053	-0.0035	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	78 - 122	38.7577	38.7593	-0.0016	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	84.3	77 - 123	40.997	40.99867	-0.0017	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	92.0	72 - 128	40.2617	40.25773	0.0040	N/A	
13C12-OCDD	200.00	85.1	48 - 152	44.9903	44.98705	0.0032	N/A	
37Cl4-2,3,7,8-TCDD	10.000	75.4	0 - 200	26.424	26.42402	0.0000	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
Sample ID:	BLD0657-BLK2	Calibration:	GC00015
File ID:	23050121A	Analyzed:	05/02/23 02:53

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	81.8	24 - 169	25.5202	25.76487	-0.2447	N/A	
13C12-2,3,7,8-TCDD	200.00	92.9	25 - 164	26.1558	26.40287	-0.2471	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	91.5	24 - 185	29.6692	29.92235	-0.2532	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	95.7	21 - 178	31.0062	31.2611	-0.2549	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	59.7	25 - 181	31.2623	31.5192	-0.2569	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	106	26 - 152	34.6388	34.88393	-0.2451	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	117	26 - 123	34.7837	35.02318	-0.2395	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	111	28 - 136	35.6527	35.88653	-0.2338	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	99.2	29 - 147	36.6888	36.91718	-0.2284	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	99.7	32 - 141	35.7642	36.00728	-0.2431	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	104	28 - 130	35.8867	36.12053	-0.2338	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	107	28 - 143	38.5247	38.7593	-0.2346	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	98.2	26 - 138	40.7418	40.99867	-0.2569	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	89.9	23 - 140	40.0065	40.25773	-0.2512	N/A	
13C12-OCDD	400.00	92.1	17 - 157	44.6693	44.98705	-0.3178	N/A	
37Cl4-2,3,7,8-TCDD	80.000	93.5	35 - 197	26.17	26.42402	-0.2540	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
Sample ID:	BLD0657-BS2	Calibration:	GC00015
File ID:	23050122A	Analyzed:	05/02/23 03:42

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	81.7	24 - 169	25.5202	25.76487	-0.2447	N/A	
13C12-2,3,7,8-TCDD	200.00	94.7	25 - 164	26.1558	26.40287	-0.2471	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	94.7	24 - 185	29.669	29.92235	-0.2534	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	92.4	21 - 178	31.0058	31.2611	-0.2553	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	65.3	25 - 181	31.2622	31.5192	-0.2570	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	101	26 - 152	34.6388	34.88393	-0.2451	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	99.1	26 - 123	34.7837	35.02318	-0.2395	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	100	28 - 136	35.6527	35.88653	-0.2338	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	95.2	29 - 147	36.6888	36.91718	-0.2284	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	100	32 - 141	35.7642	36.00728	-0.2431	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	93.4	28 - 130	35.8867	36.12053	-0.2338	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	109	28 - 143	38.5358	38.7593	-0.2235	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	91.0	26 - 138	40.7418	40.99867	-0.2569	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	94.1	23 - 140	40.0177	40.25773	-0.2400	N/A	
13C12-OCDD	400.00	86.8	17 - 157	44.6602	44.98705	-0.3269	N/A	
37Cl4-2,3,7,8-TCDD	80.000	95.1	35 - 197	26.17	26.42402	-0.2540	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
Sample ID:	SLE0060-ICV1	Calibration:	GC00015
File ID:	23050922A	Analyzed:	05/10/23 06:11

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	101	71 - 129	25.6472	25.76487	-0.1177	N/A	
13C12-2,3,7,8-TCDD	100.00	105	82 - 118	26.2828	26.40287	-0.1201	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	113	76 - 124	29.7997	29.92235	-0.1227	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	116	77 - 123	31.1368	31.2611	-0.1243	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	106	62 - 138	31.393	31.5192	-0.1262	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	87.1	76 - 124	34.7577	34.88393	-0.1262	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	90.1	70 - 130	34.9025	35.02318	-0.1207	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	96.1	73 - 127	35.7603	35.88653	-0.1262	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	95.0	74 - 126	36.7965	36.91718	-0.1207	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	91.6	85 - 115	35.8828	36.00728	-0.1245	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	93.1	85 - 115	36.0055	36.12053	-0.1150	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	104	78 - 122	38.6348	38.7593	-0.1245	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	110	77 - 123	40.8632	40.99867	-0.1355	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	92.8	72 - 128	40.1278	40.25773	-0.1299	N/A	
13C12-OCDD	200.00	114	48 - 152	44.8052	44.98705	-0.1819	N/A	
37Cl4-2,3,7,8-TCDD	10.000	87.9	0 - 200	26.311	26.42402	-0.1130	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
Sample ID:	BLD0657-SRM1	Calibration:	GC00015
File ID:	23050924	Analyzed:	05/10/23 07:55

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.40	91.8	24 - 169	25.6755	25.76487	-0.0894	N/A	
13C12-2,3,7,8-TCDD	199.40	98.3	25 - 164	26.311	26.40287	-0.0919	N/A	
13C12-1,2,3,7,8-PeCDF	199.40	104	24 - 185	29.8332	29.92235	-0.0892	N/A	
13C12-2,3,4,7,8-PeCDF	199.40	107	21 - 178	31.1702	31.2611	-0.0909	N/A	
13C12-1,2,3,7,8-PeCDD	199.40	96.7	25 - 181	31.4263	31.5192	-0.0929	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.40	77.4	26 - 152	34.7912	34.88393	-0.0927	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.40	71.8	26 - 123	34.936	35.02318	-0.0872	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.40	81.1	28 - 136	35.8162	35.88653	-0.0703	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.40	85.6	29 - 147	36.83	36.91718	-0.0872	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.40	85.0	32 - 141	35.9498	36.00728	-0.0575	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.40	80.6	28 - 130	36.0612	36.12053	-0.0593	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.40	78.2	28 - 143	38.6683	38.7593	-0.0910	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.40	93.1	26 - 138	40.8967	40.99867	-0.1020	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.40	80.1	23 - 140	40.1612	40.25773	-0.0965	N/A	
13C12-OCDD	398.80	88.2	17 - 157	44.851	44.98705	-0.1361	N/A	
37Cl4-2,3,7,8-TCDD	79.761	91.7	35 - 197	26.3393	26.42402	-0.0847	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
Sample ID:	23D0136-01	Calibration:	GC00015
File ID:	23050928	Analyzed:	05/10/23 11:11

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.82	90.1	24 - 169	25.6893	25.76487	-0.0756	N/A	
13C12-2,3,7,8-TCDD	199.82	96.4	25 - 164	26.325	26.40287	-0.0779	N/A	
13C12-1,2,3,7,8-PeCDF	199.82	104	24 - 185	29.8332	29.92235	-0.0892	N/A	
13C12-2,3,4,7,8-PeCDF	199.82	108	21 - 178	31.1702	31.2611	-0.0909	N/A	
13C12-1,2,3,7,8-PeCDD	199.82	97.4	25 - 181	31.4265	31.5192	-0.0927	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.82	78.3	26 - 152	34.8023	34.88393	-0.0816	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.82	69.3	26 - 123	34.936	35.02318	-0.0872	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.82	78.7	28 - 136	35.805	35.88653	-0.0815	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.82	85.5	29 - 147	36.8298	36.91718	-0.0874	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.82	85.6	32 - 141	35.9275	36.00728	-0.0798	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.82	75.7	28 - 130	36.05	36.12053	-0.0705	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.82	91.8	28 - 143	38.6793	38.7593	-0.0800	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.82	97.8	26 - 138	40.8965	40.99867	-0.1022	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.82	86.9	23 - 140	40.1612	40.25773	-0.0965	N/A	
13C12-OCDD	399.64	112	17 - 157	44.86	44.98705	-0.1271	N/A	
37Cl4-2,3,7,8-TCDD	79.927	96.6	35 - 197	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0060	Instrument:	AUTOSPEC01
Sample ID:	SLE0060-CCV1	Calibration:	GC00015
File ID:	23050929	Analyzed:	05/10/23 12:00

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	97.4	71 - 129	25.6613	25.76487	-0.1036	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.297	26.40287	-0.1059	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	111	76 - 124	29.8112	29.92235	-0.1112	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	118	77 - 123	31.1482	31.2611	-0.1129	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	105	62 - 138	31.4043	31.5192	-0.1149	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	81.3	76 - 124	34.769	34.88393	-0.1149	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	73.2	70 - 130	34.9028	35.02318	-0.1204	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	84.2	73 - 127	35.7718	35.88653	-0.1147	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	88.7	74 - 126	36.808	36.91718	-0.1092	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	87.8	85 - 115	35.8945	36.00728	-0.1128	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	81.4	85 - 115	36.0058	36.12053	-0.1147	N/A	*
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	78 - 122	38.6465	38.7593	-0.1128	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	105	77 - 123	40.875	40.99867	-0.1237	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	96.2	72 - 128	40.1283	40.25773	-0.1294	N/A	
13C12-OCDD	200.00	123	48 - 152	44.8152	44.98705	-0.1719	N/A	
37Cl4-2,3,7,8-TCDD	10.000	89.7	0 - 200	26.3112	26.42402	-0.1128	N/A	

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/25/23 14:15	20	365	05/10/23 11:11	15	365	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.058	1.00	ng/kg
2,3,7,8-TCDD	0.150	1.00	ng/kg
1,2,3,7,8-PeCDF	0.240	1.00	ng/kg
2,3,4,7,8-PeCDF	0.220	1.00	ng/kg
1,2,3,7,8-PeCDD	0.170	1.00	ng/kg
1,2,3,4,7,8-HxCDF	0.280	1.00	ng/kg
1,2,3,6,7,8-HxCDF	0.200	1.00	ng/kg
2,3,4,6,7,8-HxCDF	0.170	1.00	ng/kg
1,2,3,7,8,9-HxCDF	0.190	1.00	ng/kg
1,2,3,4,7,8-HxCDD	0.170	1.00	ng/kg
1,2,3,6,7,8-HxCDD	0.180	1.00	ng/kg
1,2,3,7,8,9-HxCDD	0.220	1.00	ng/kg
1,2,3,4,6,7,8-HpCDF	0.210	1.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.240	1.00	ng/kg
1,2,3,4,6,7,8-HpCDD	0.560	2.50	ng/kg
OCDF	1.10	2.50	ng/kg
OCDD	4.60	10.0	ng/kg
Total TCDF		1.00	ng/kg
Total TCDD		1.00	ng/kg
Total PeCDF		1.00	ng/kg
Total PeCDD		1.00	ng/kg
Total HxCDF		1.00	ng/kg
Total HxCDD		1.00	ng/kg
Total HpCDF		1.00	ng/kg
Total HpCDD		1.00	ng/kg

CS3WT

Calibration and Verification Solution (EPA-1613CS3) combined with Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT0918
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/24/2018
LAST TESTED: (mm/dd/yyyy)	10/29/2018
EXPIRY DATE: (mm/dd/yyyy)	10/29/2025
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

CS3WT is a solution/mixture of native and $^{13}C_{12}$-labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

CS3WT was designed and prepared to be used as a HRMS calibration standard according to U.S. EPA Method 1613B.

It is to be used for calibration verification in place of EPA-1613CS3 (Lot: 13CS30918). It also contains the PCDD and PCDF window defining congeners for a DB-5 (or equivalent) capillary column as well as the TCDD isomers required to test and confirm the resolution of 2,3,7,8-TCDD.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS10918
EPA-1613CS2	13CS20918
EPA-1613CS3	13CS30918
EPA-1613CS4	13CS40918
EPA-1613CS5	13CS50918
EPA-1613CSL	13CSL0918
EPA-1613CS0.5	13CS0.50918

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.
- Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation. The other congeners (window defining and 2378-TCDD resolution testing) should be considered semi-quantitative (within ±20% of their design value). Impurities have been identified where possible.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: CS3WT; Components and Concentrations (ng/ml, in nonane/4.5% toluene)

QUANTITATIVE ANALYTES (ng/ml, ±5%)	
Native PCDDs & PCDFs:	
2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD *(WD)*	50
1,2,3,4,6,7,8-HpCDF *(WD)*	50
1,2,3,4,7,8,9-HpCDF *(WD)*	50
OCDD	100
OCDF	100
Labelled PCDDs & PCDFs:	
$^{13}C_{12}$-2,3,7,8-TCDD	100
$^{13}C_{12}$-2,3,7,8-TCDF	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100
$^{13}C_{12}$-OCDD	200
Cleanup Standard:	
$^{37}Cl_4$-2,3,7,8-TCDD	10
Internal Standards:	
$^{13}C_{12}$-1,2,3,4-TCDD	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100

SEMI-QUANTITATIVE ANALYTES (ng/ml, ±20%)	
Window Definers:*	
1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,6,8/1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50
2378-TCDD Resolution Testing Isomers:	
1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

** 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.*

** 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.*

WD – Window Definer

Certified By: _____ **Date:** 10/30/2018 (mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

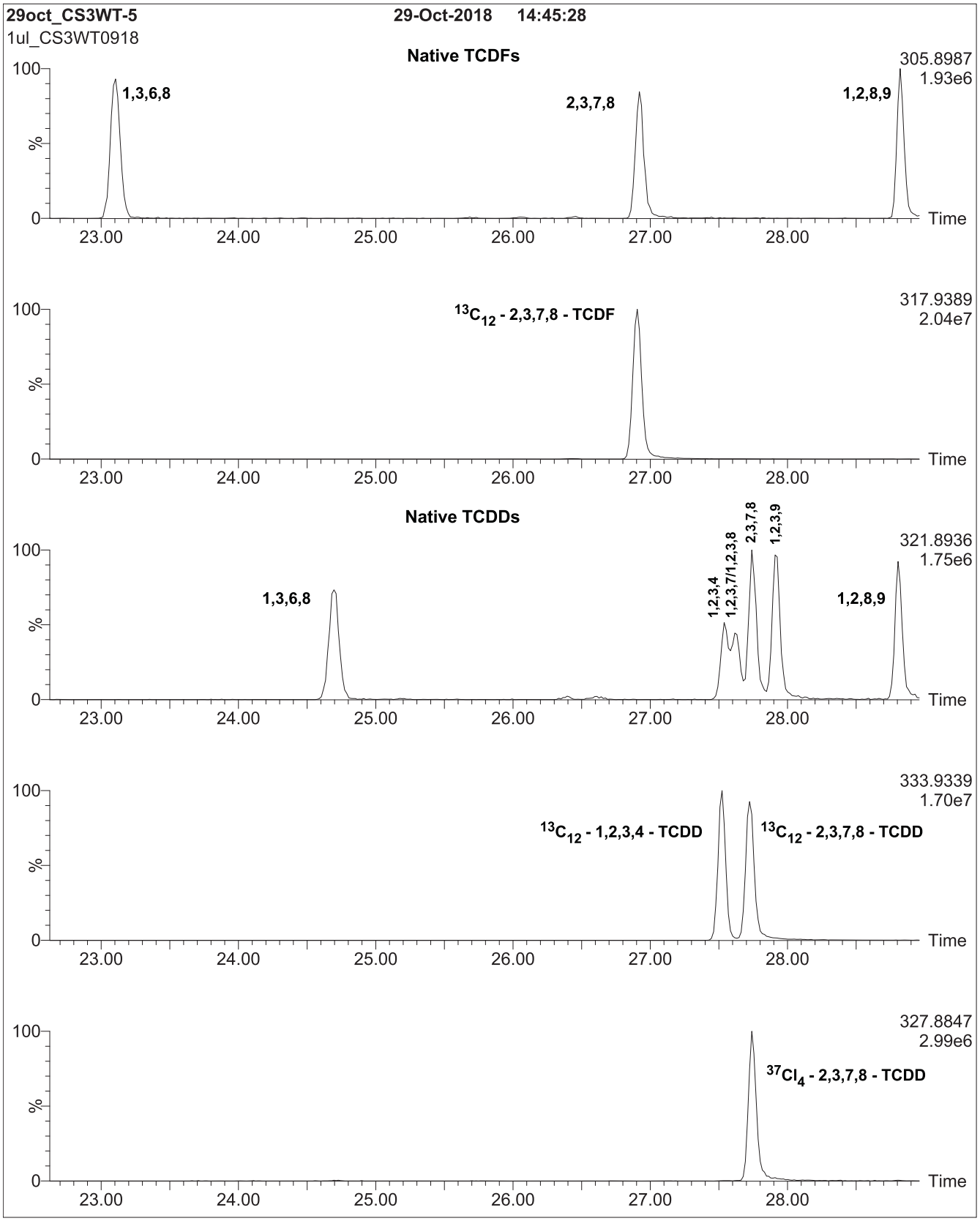


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

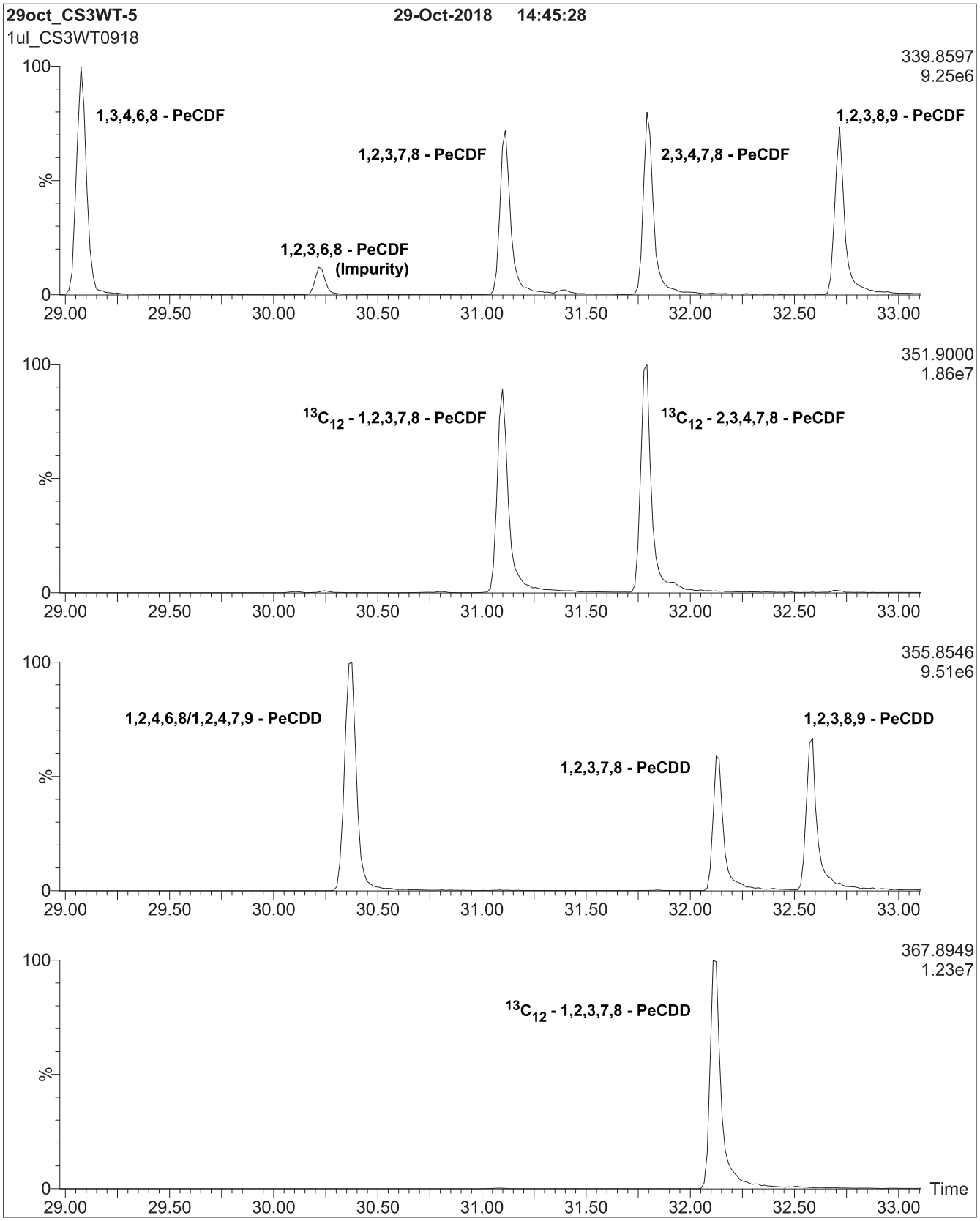


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

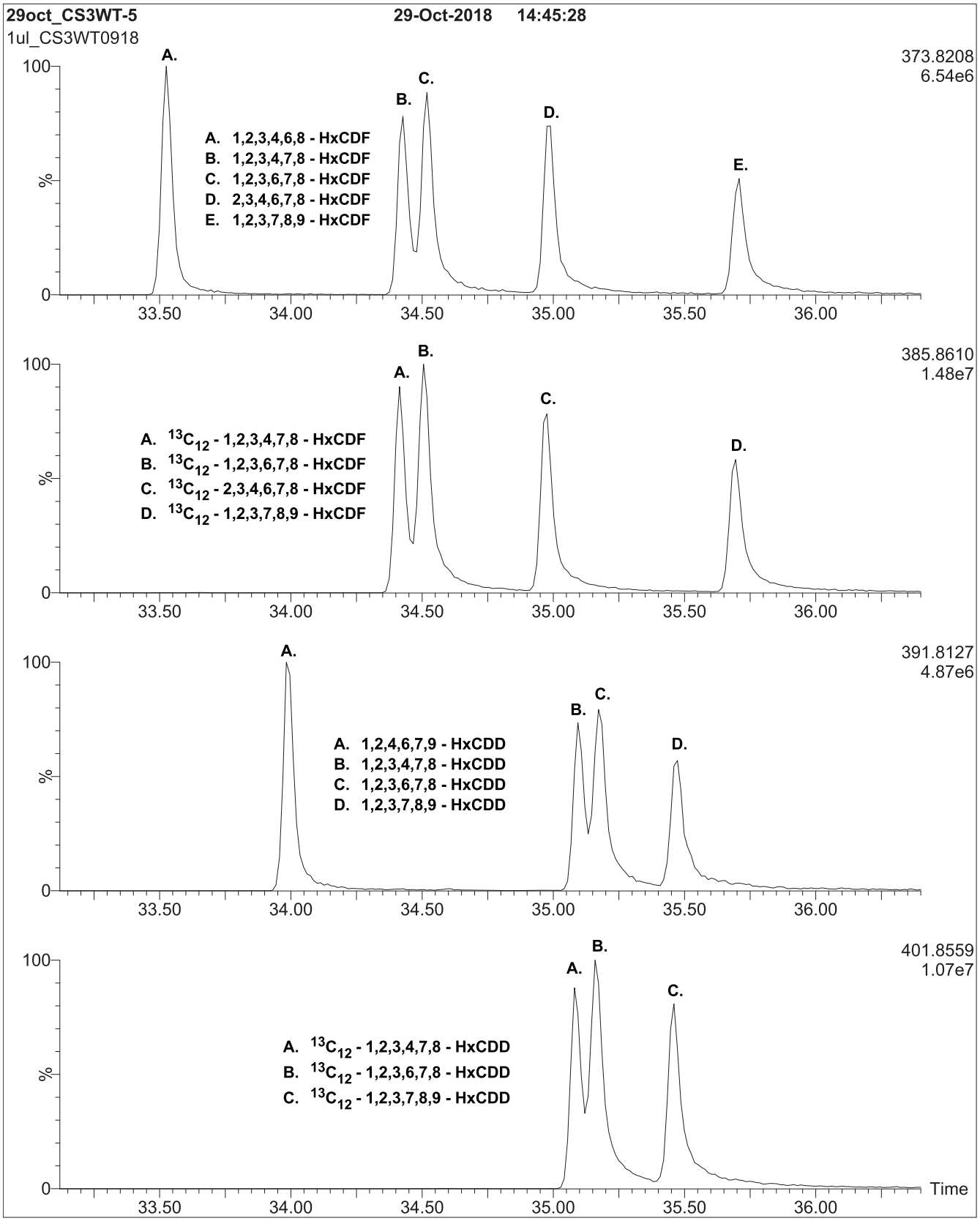


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

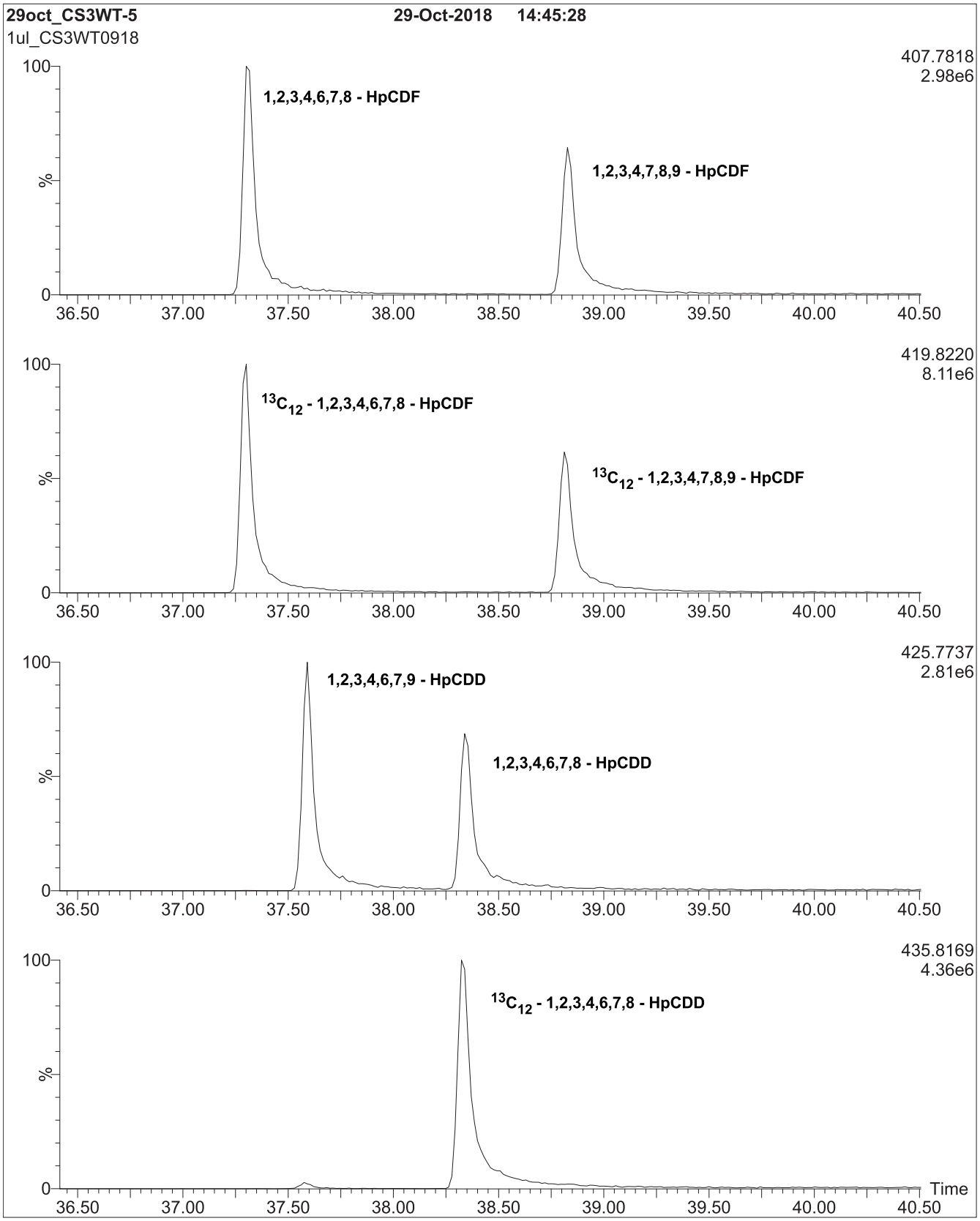
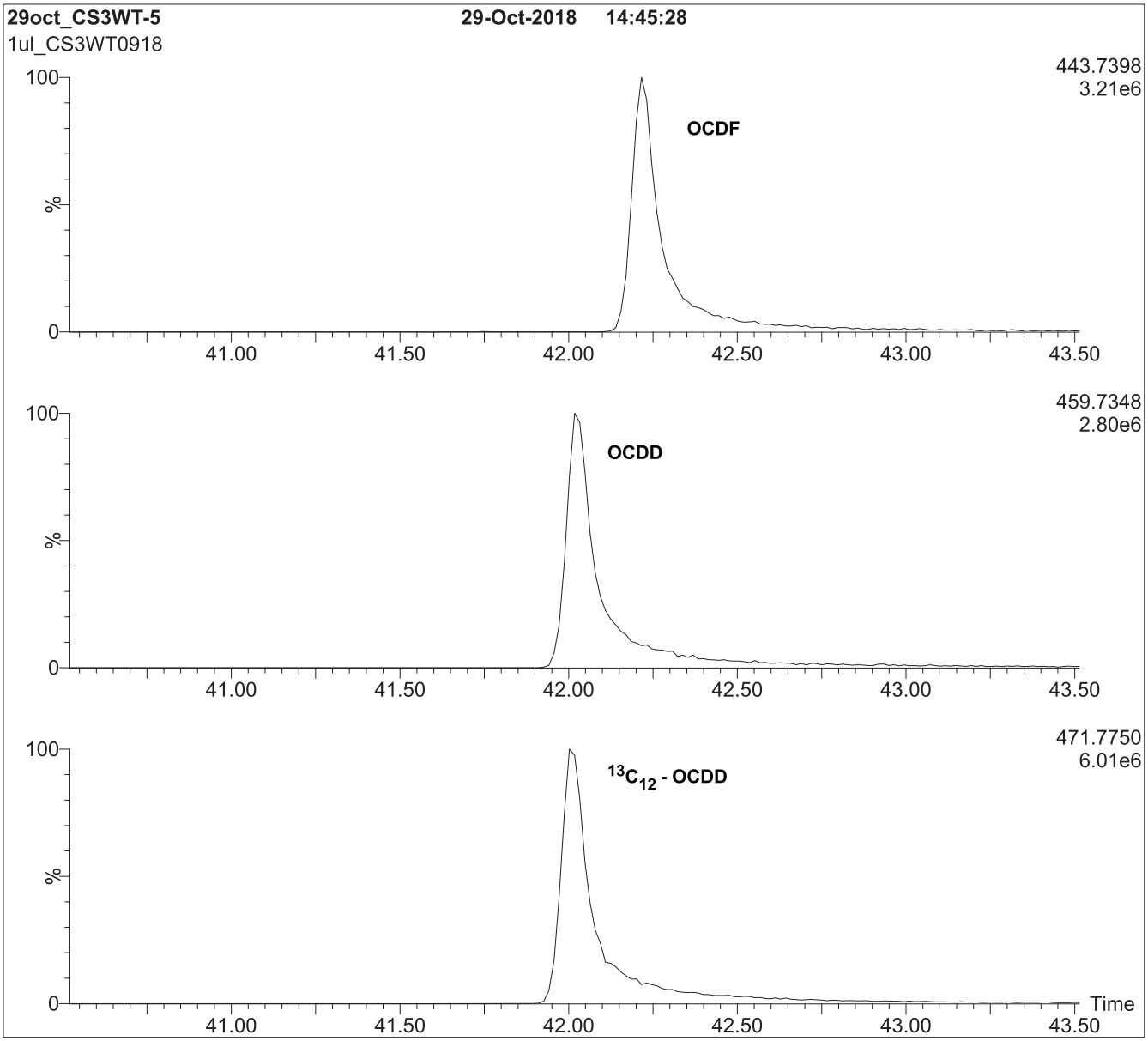


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005456
1613 CS1 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

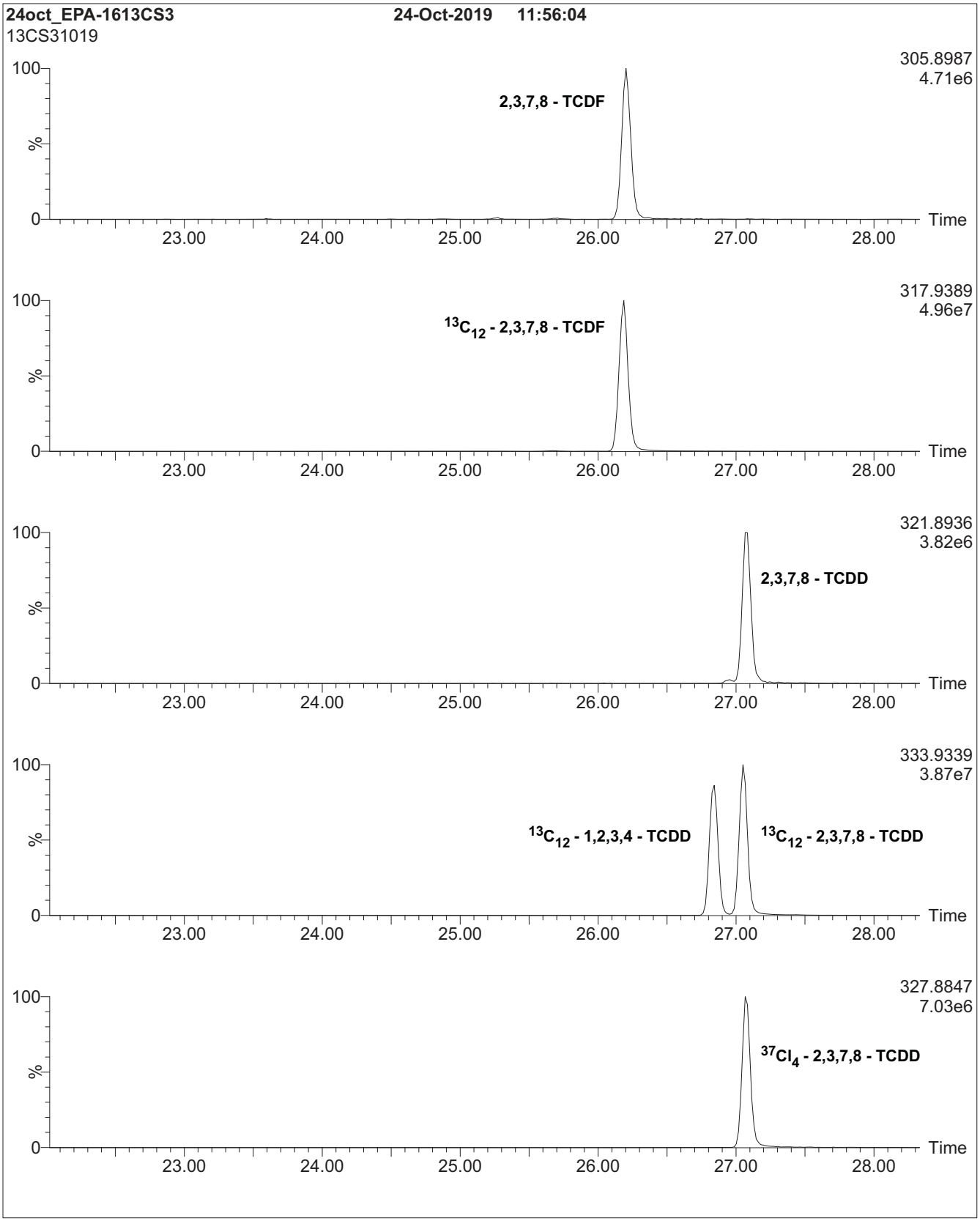


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

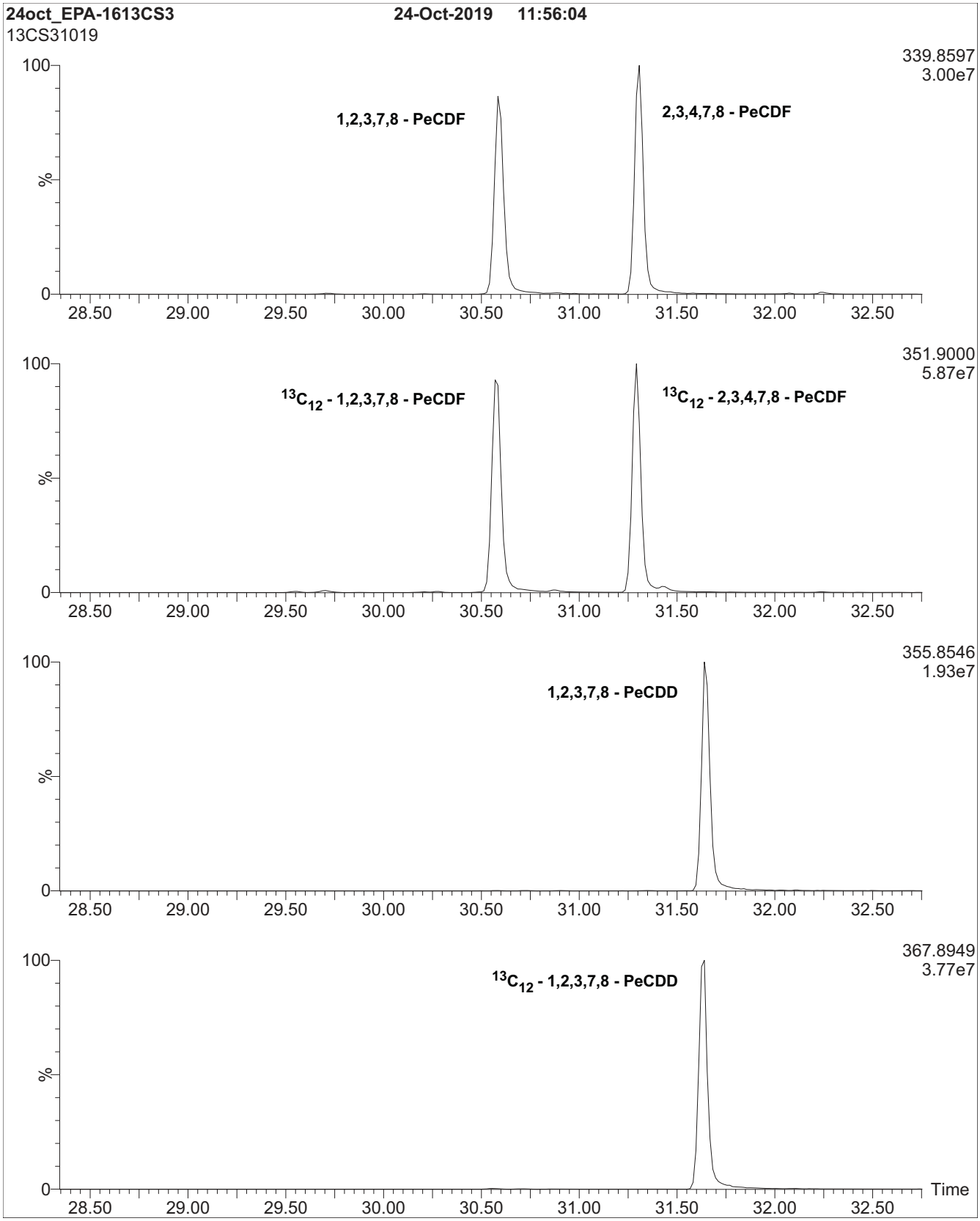


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

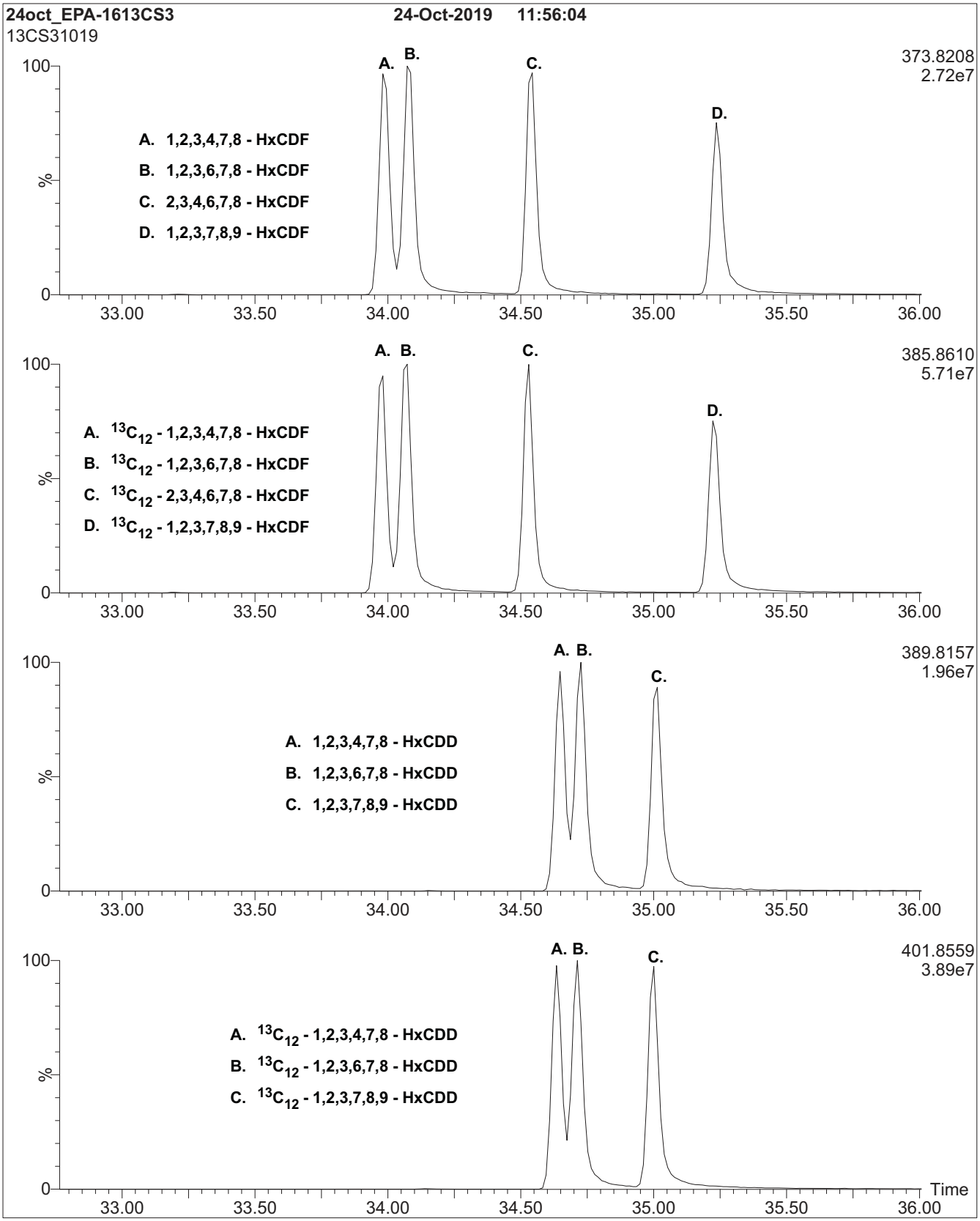


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

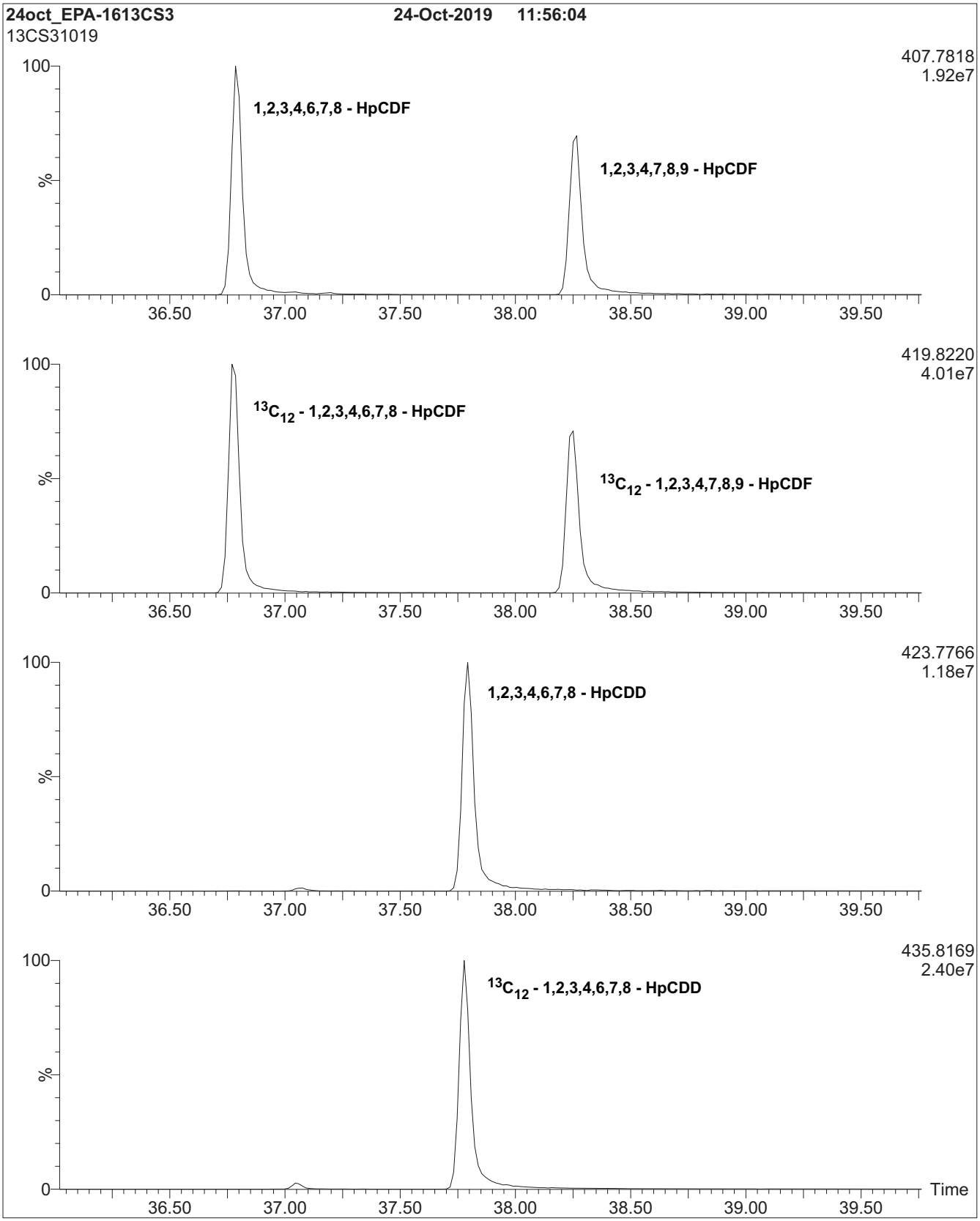
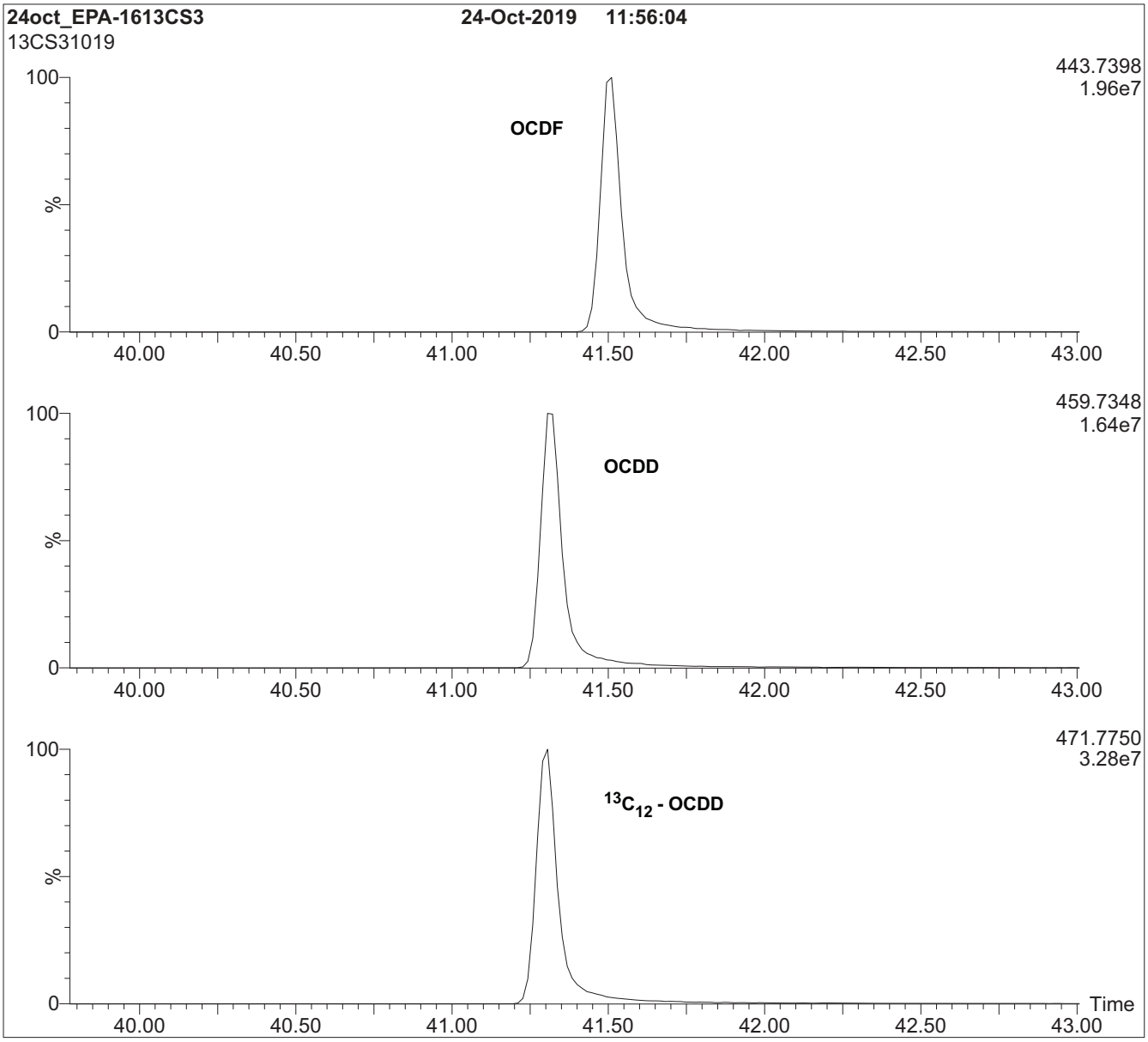


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005457
1613 CS2 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

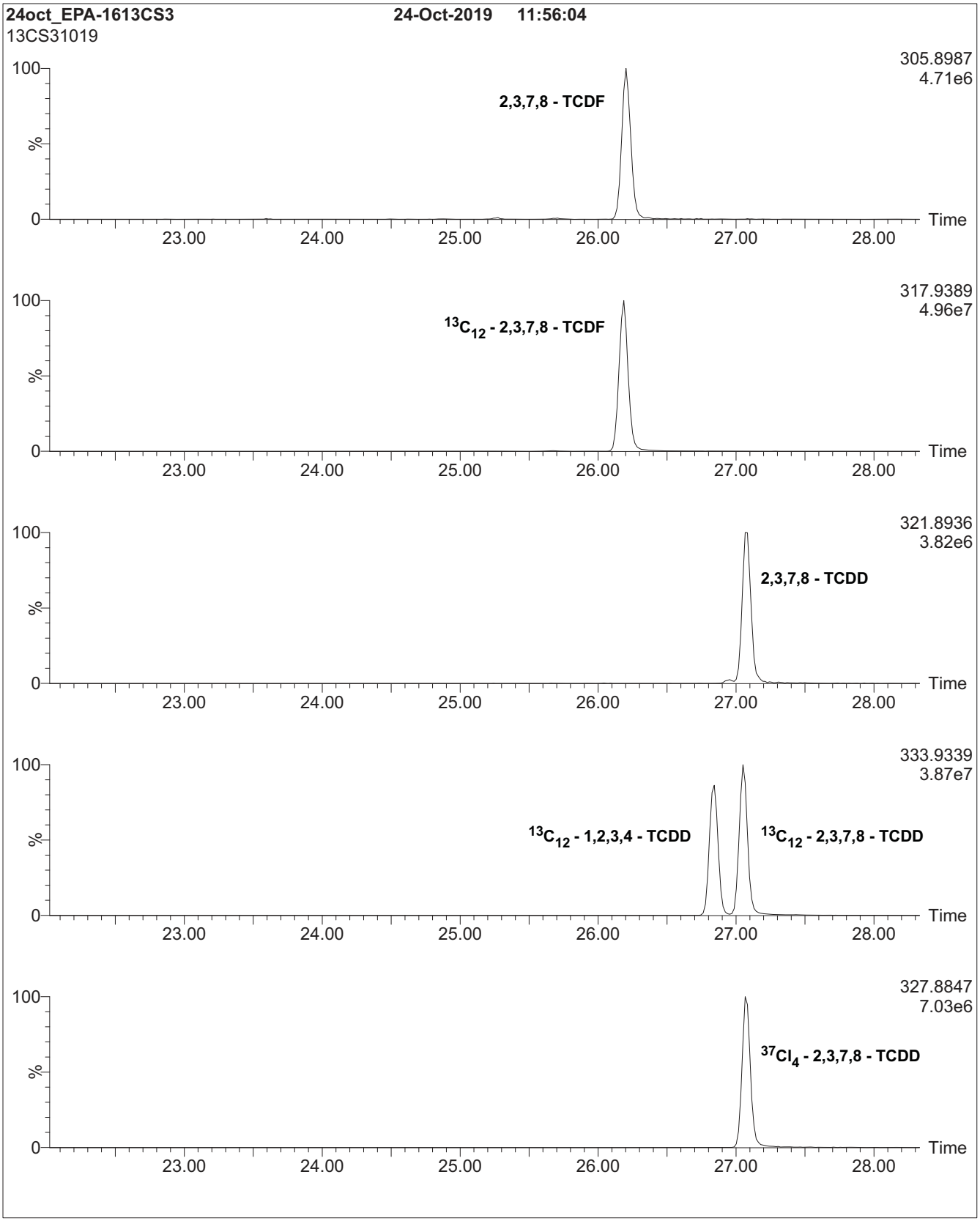


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

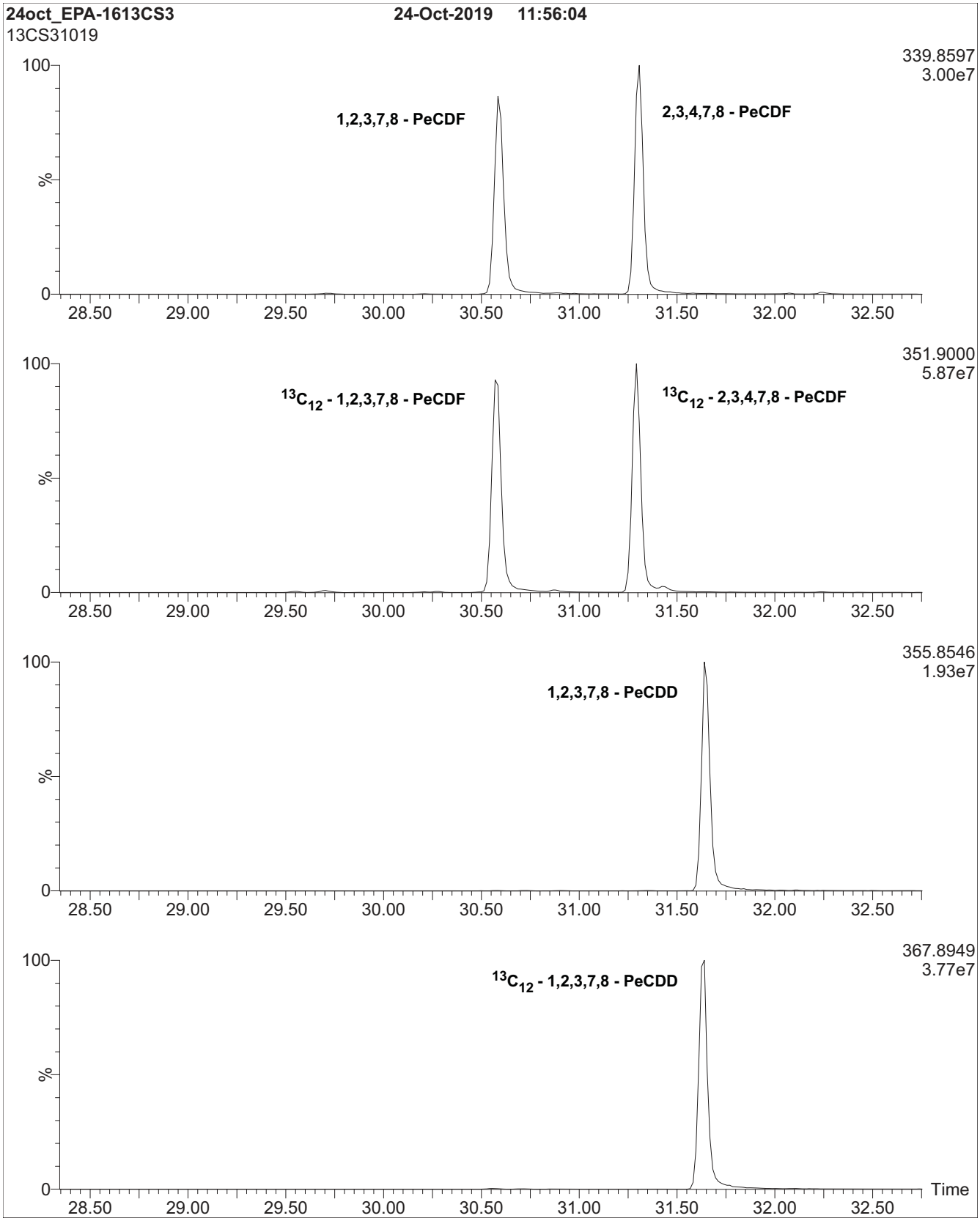


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

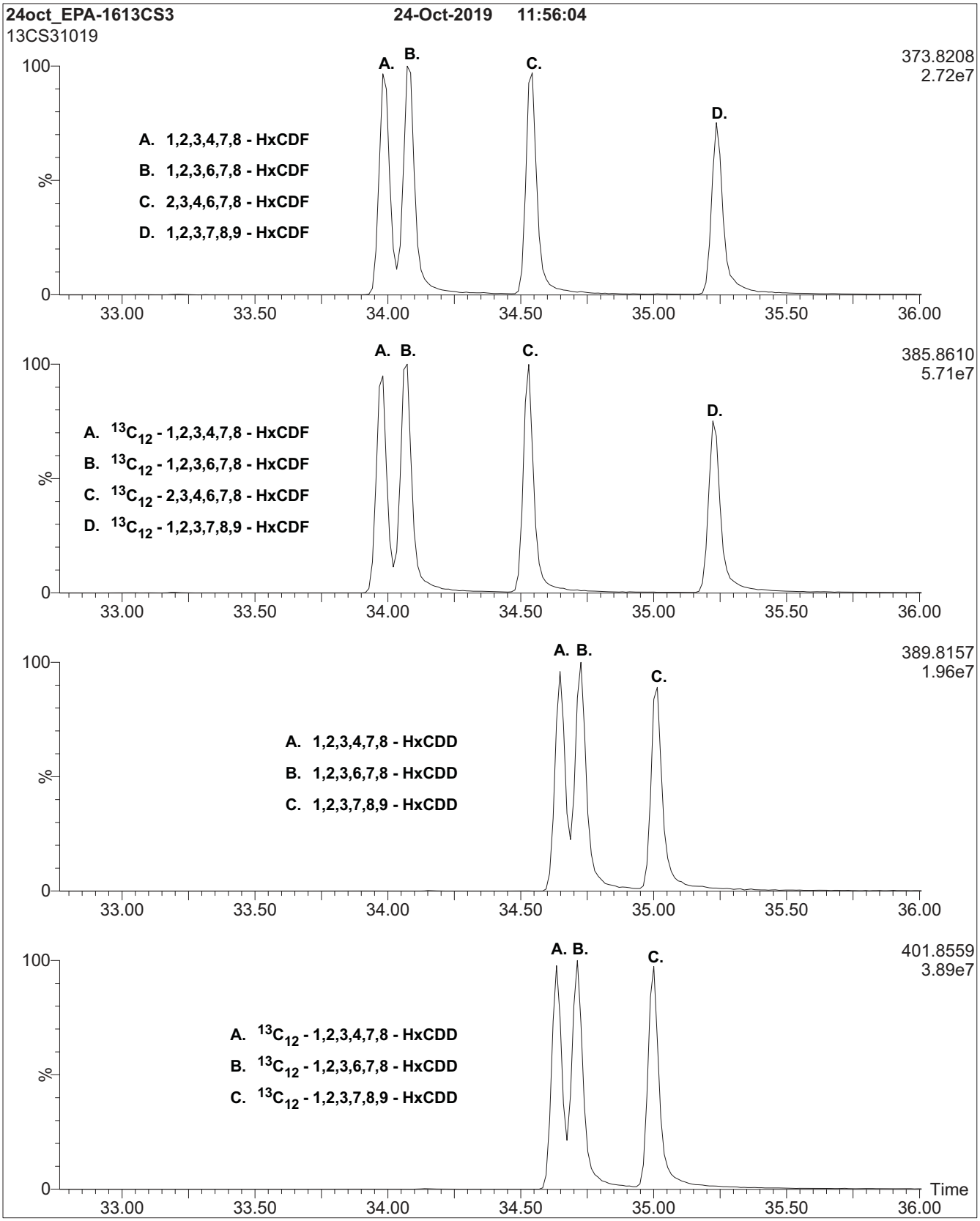


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

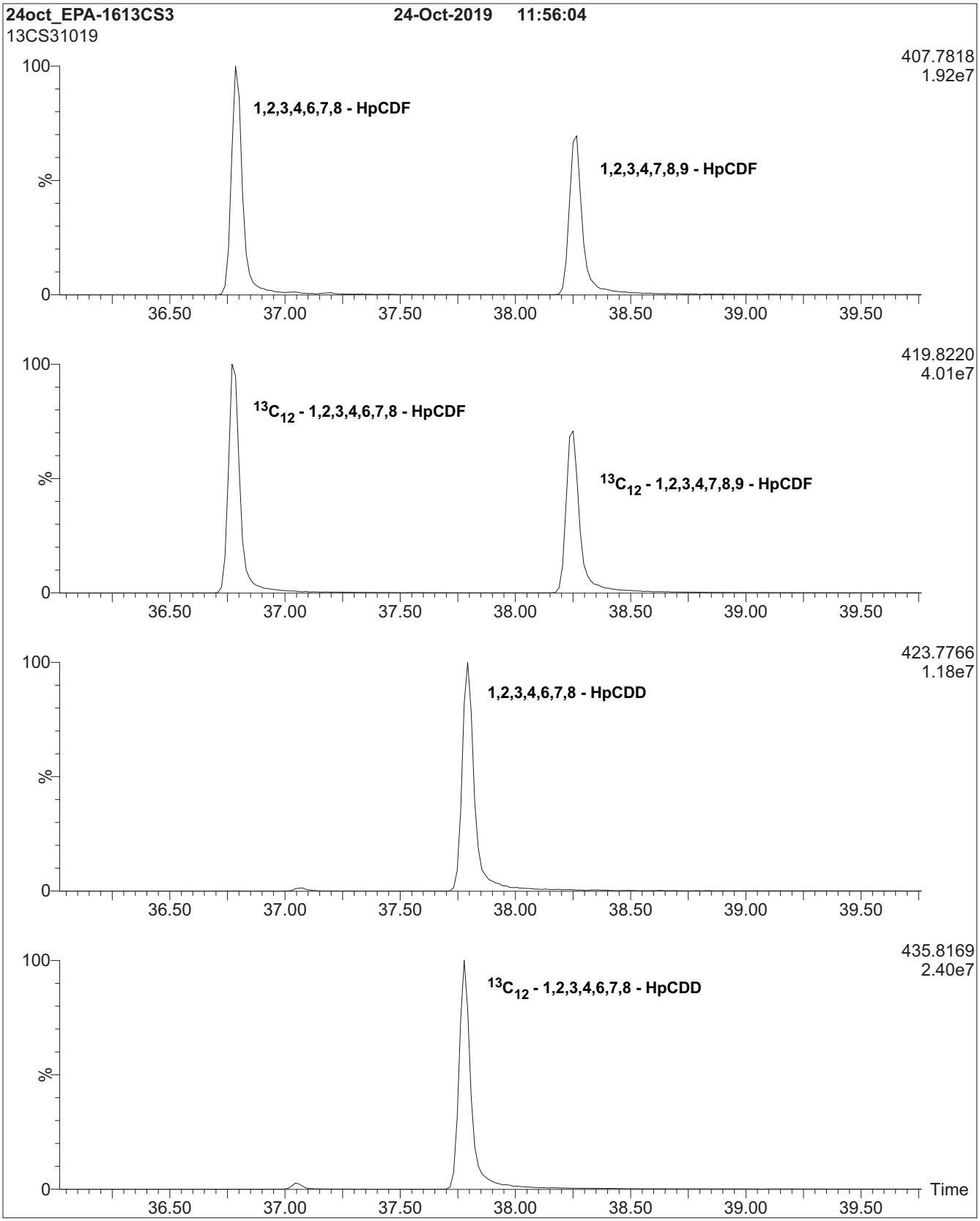
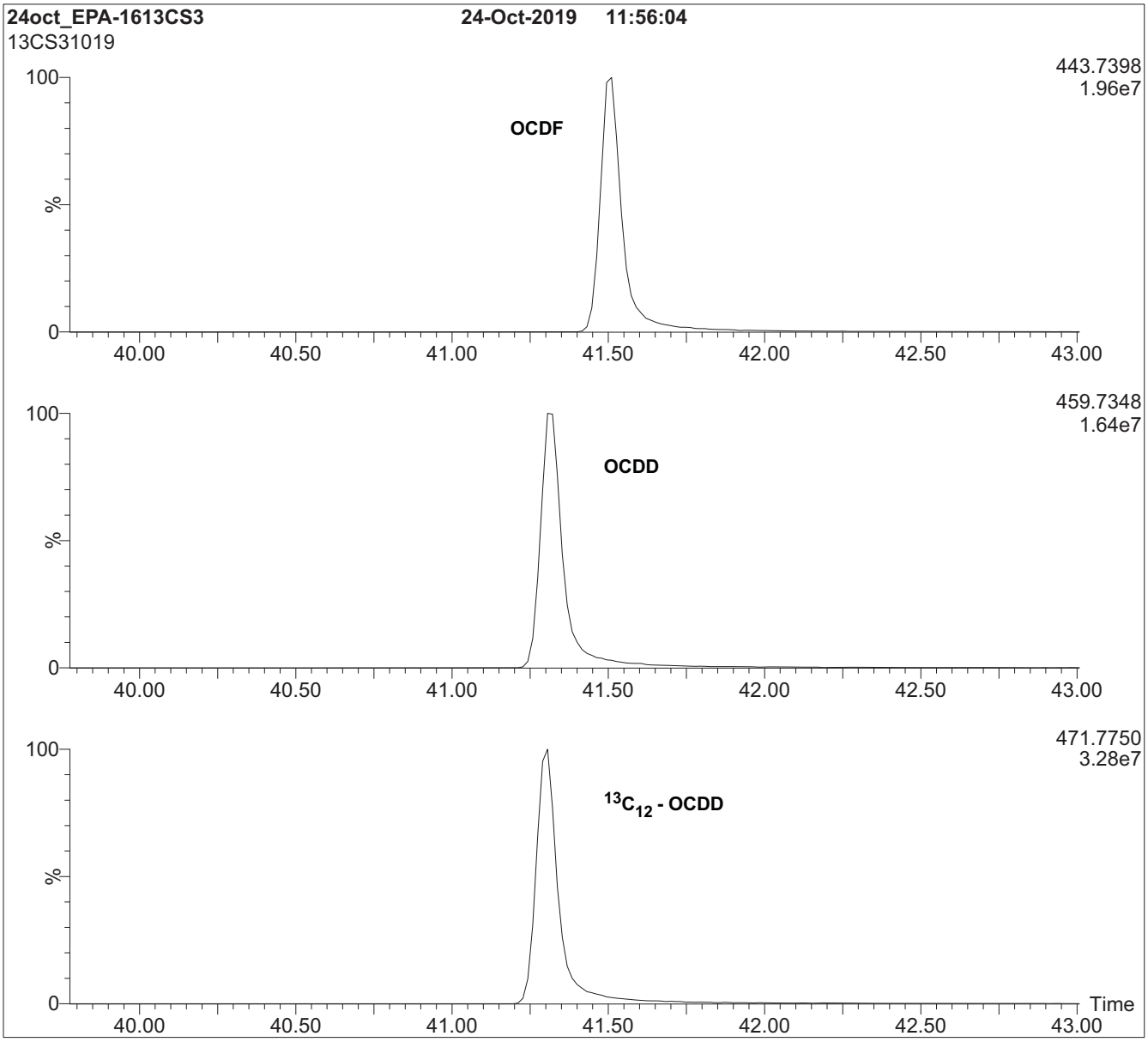


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005458
1613 CS4 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

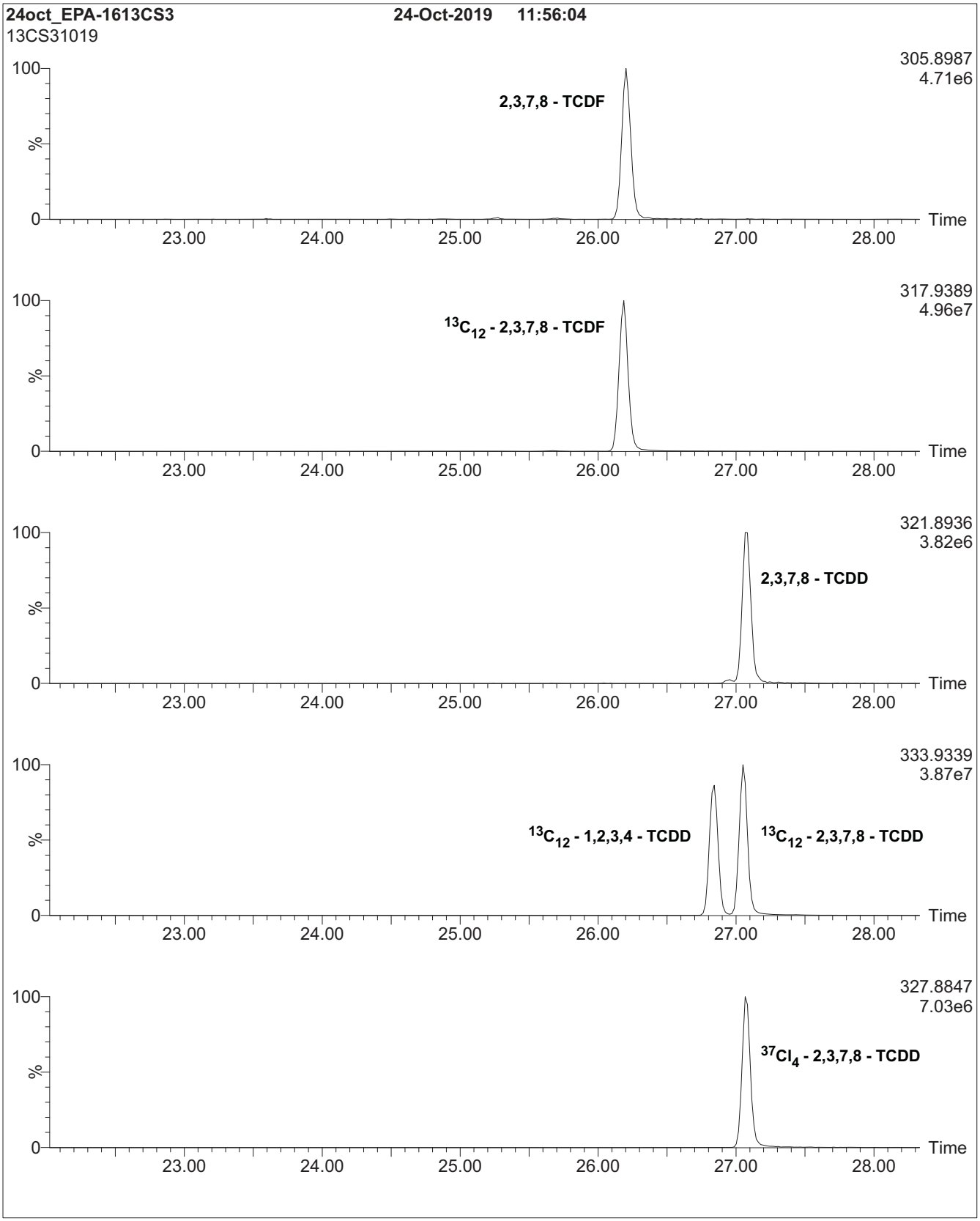


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

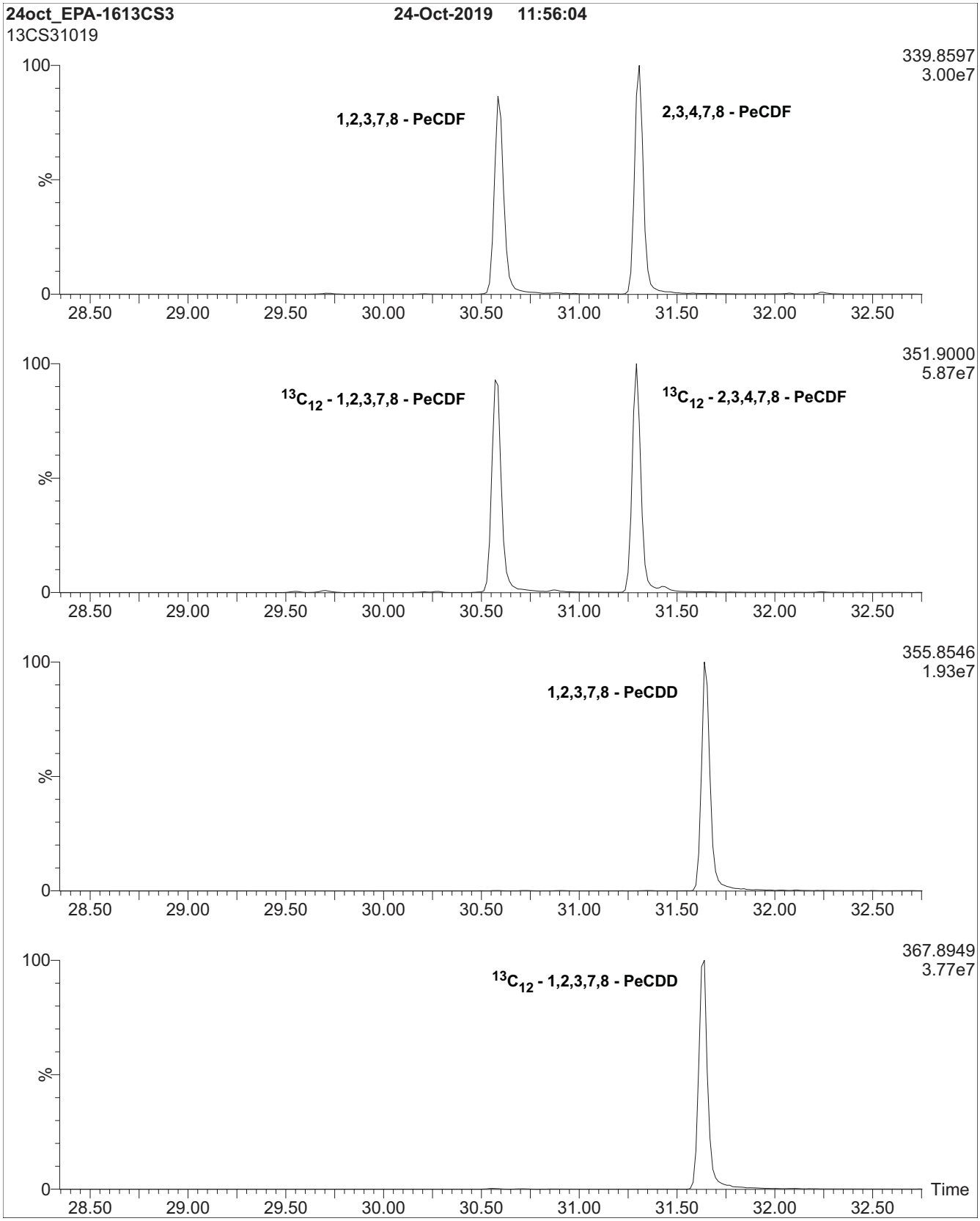


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

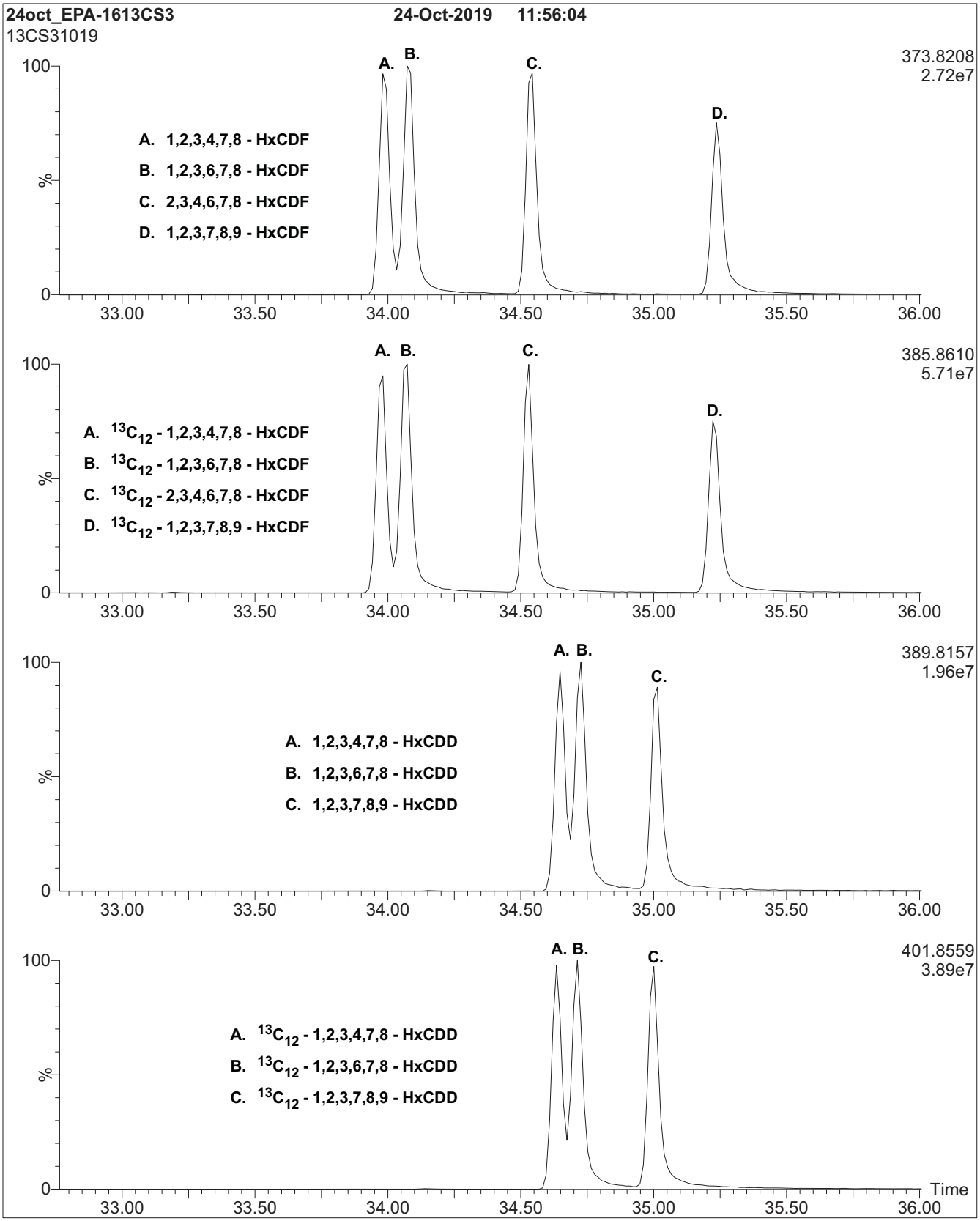


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

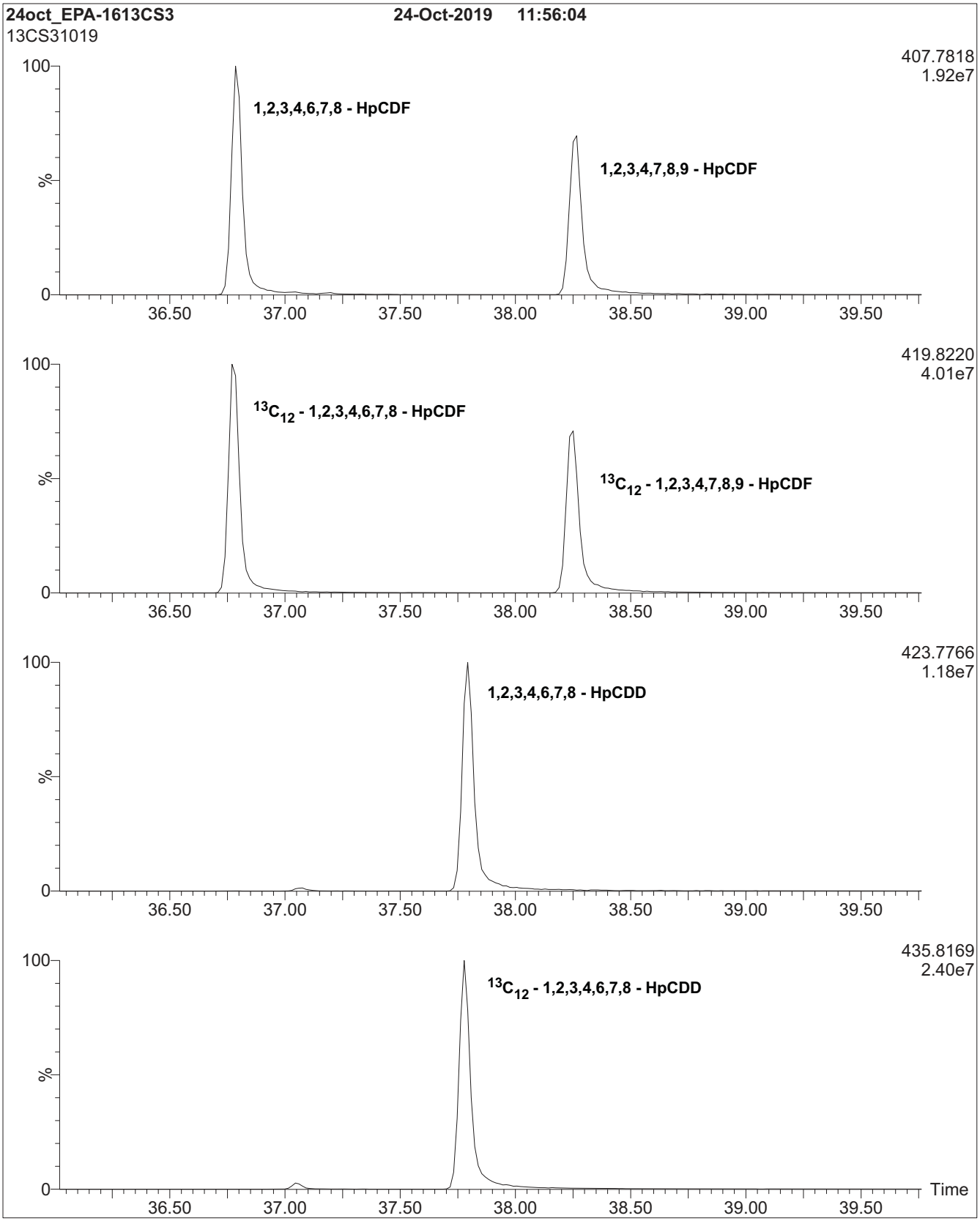
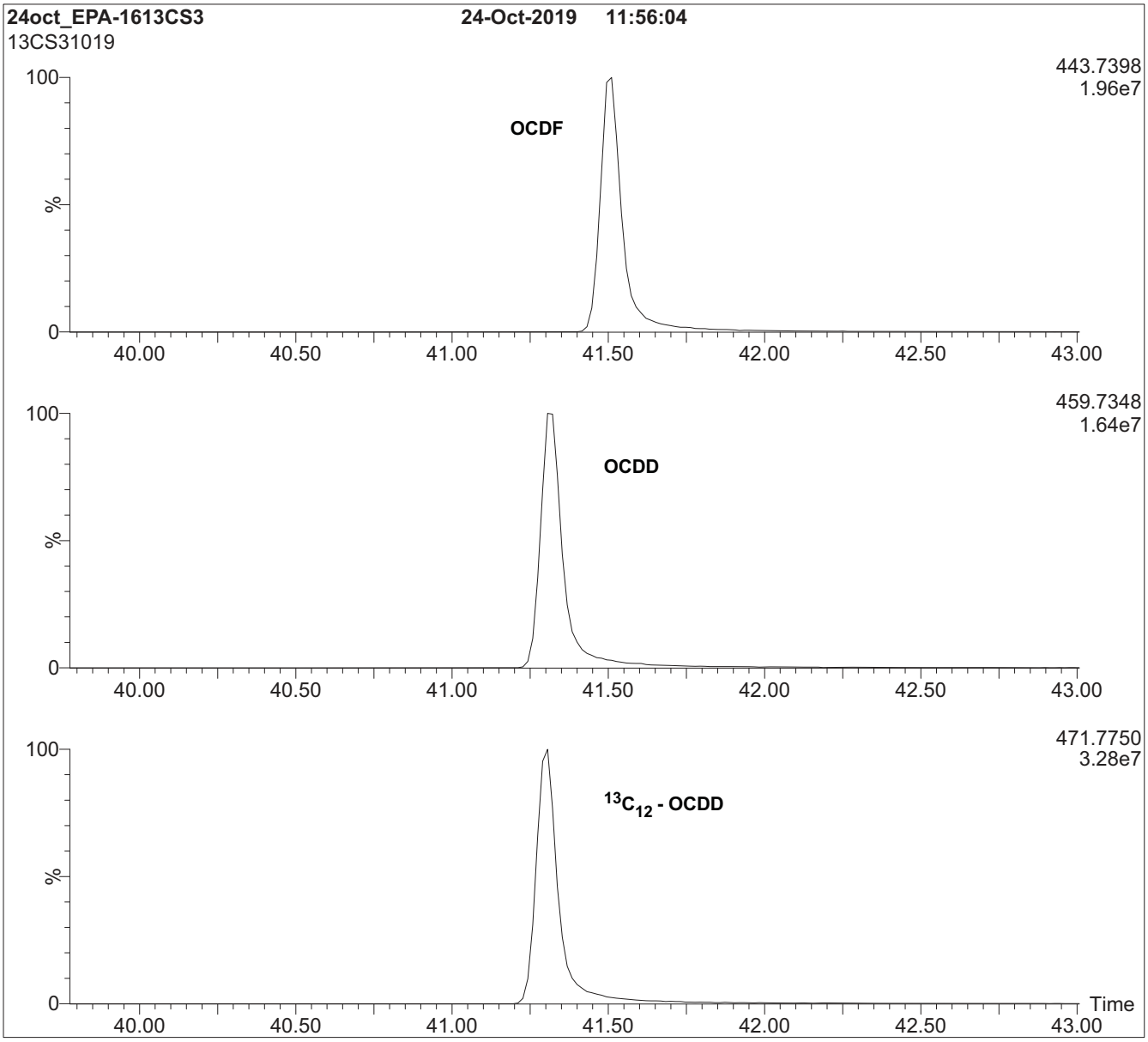


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005459
1613 CS5 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

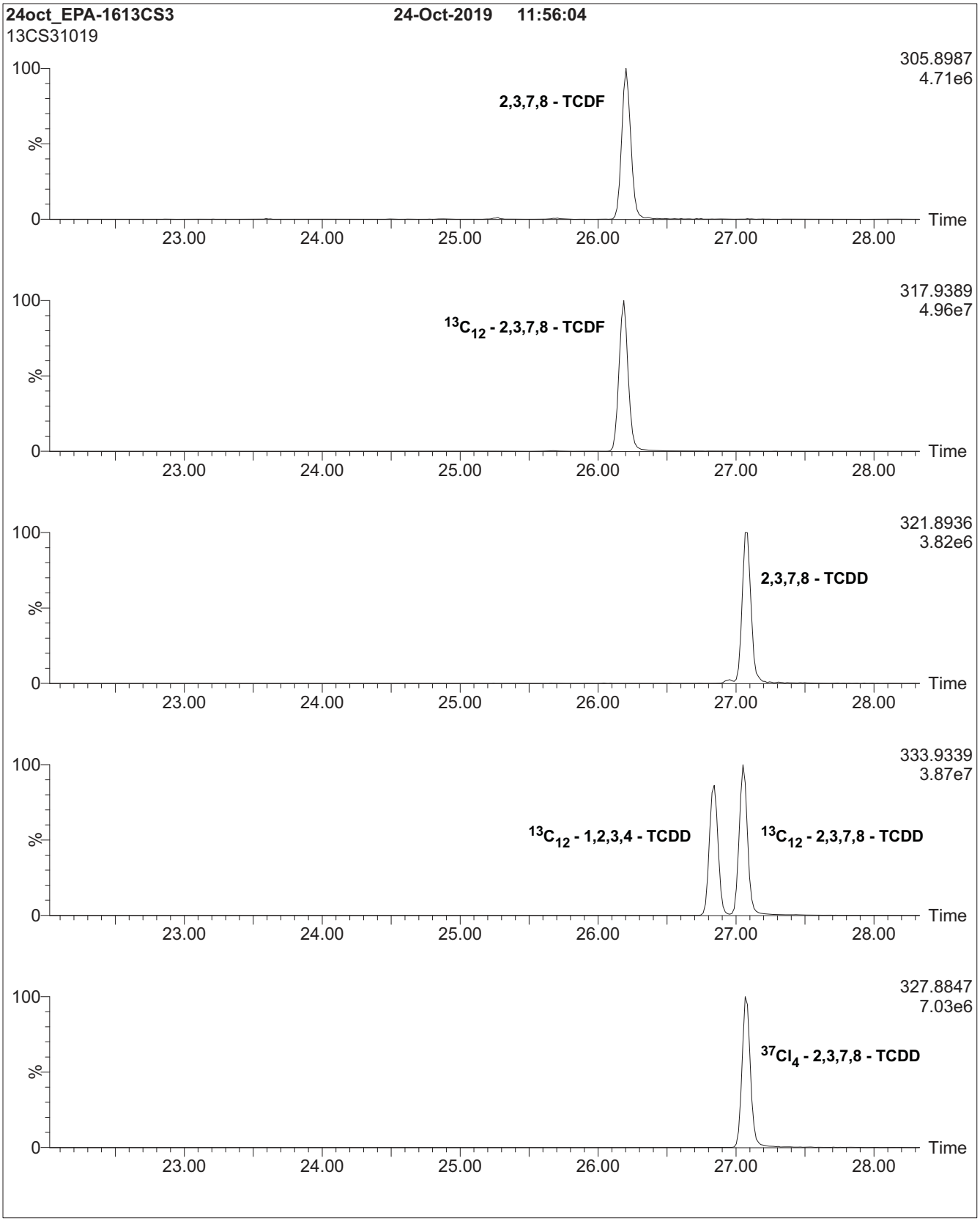


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

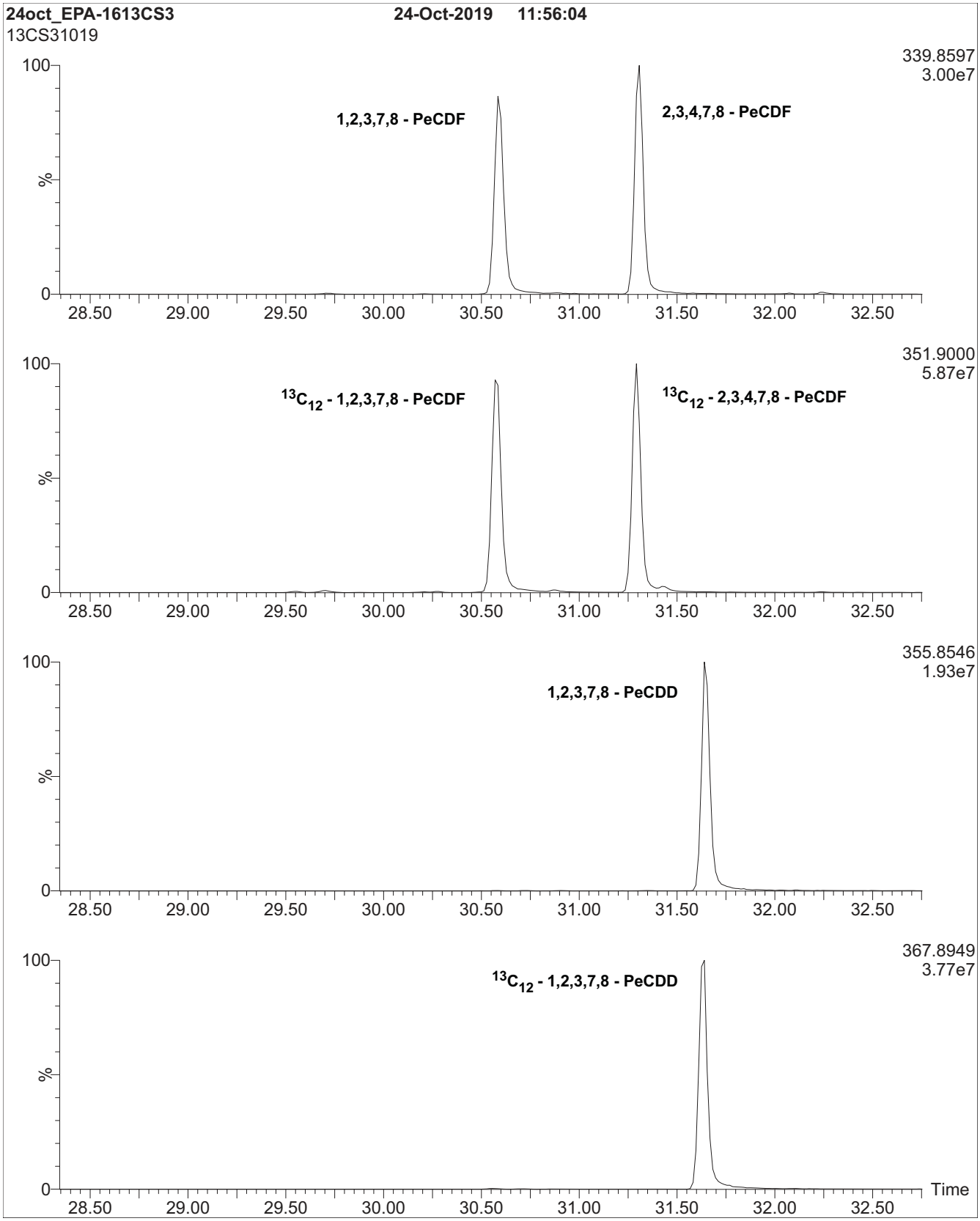


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

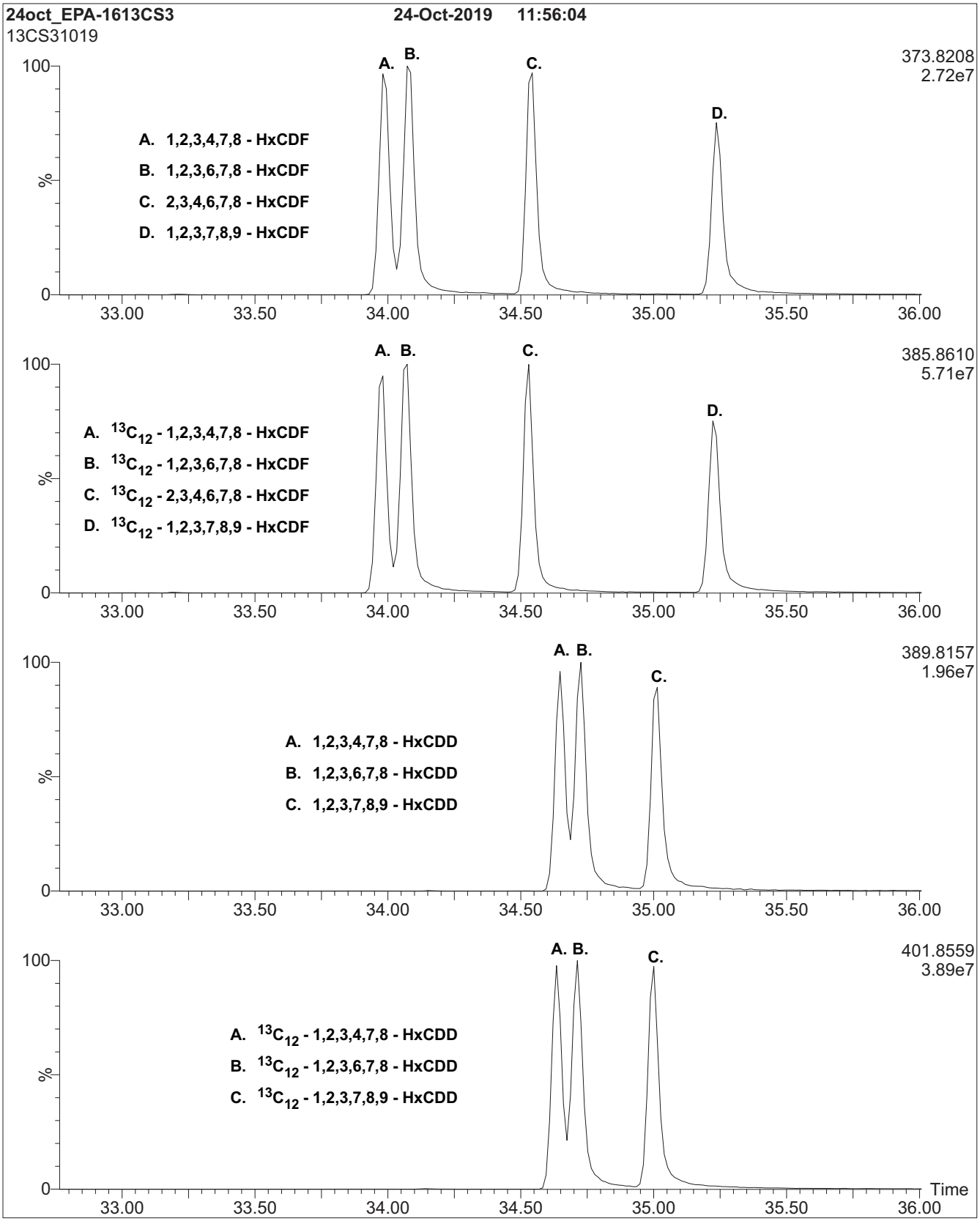


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

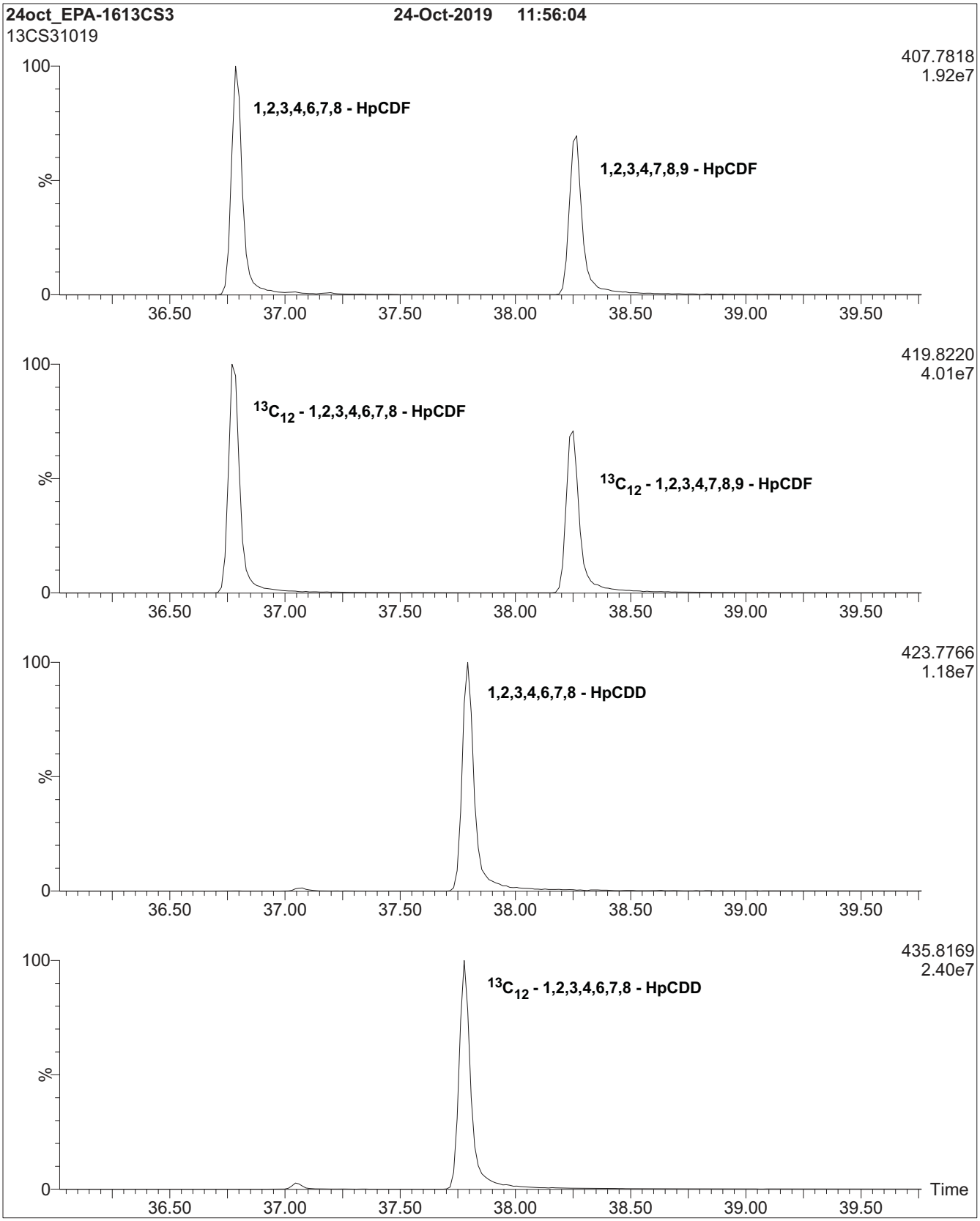
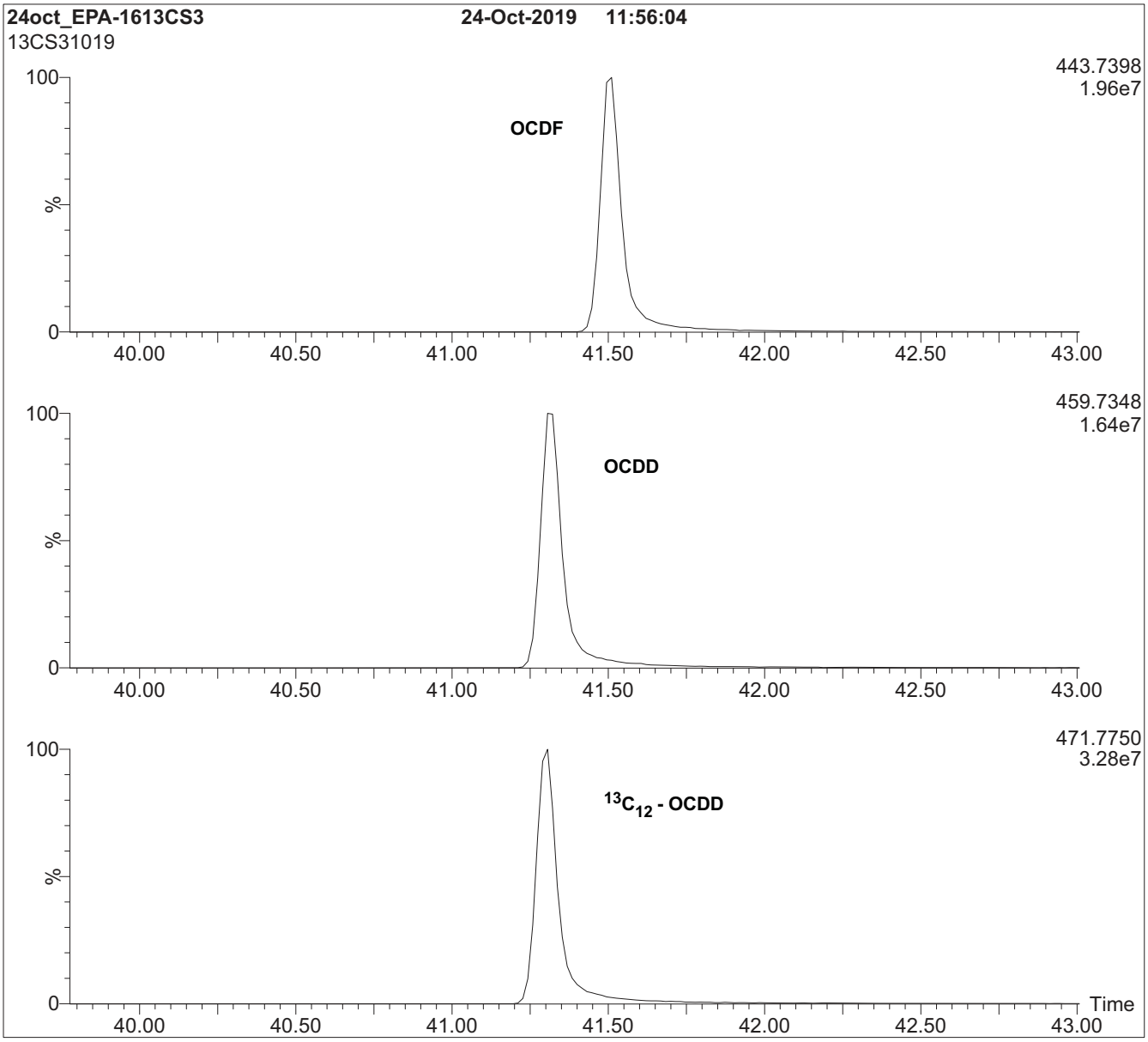


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min
Injector: 280 °C (Splitless Injection)
Ionization: EI+
Detector: 280 °C
SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)
12 °C/min to 200 °C
3 °C/min to 235 °C
235 °C (8 min)
8 °C/min to 310 °C
310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005460
1613 CSL CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

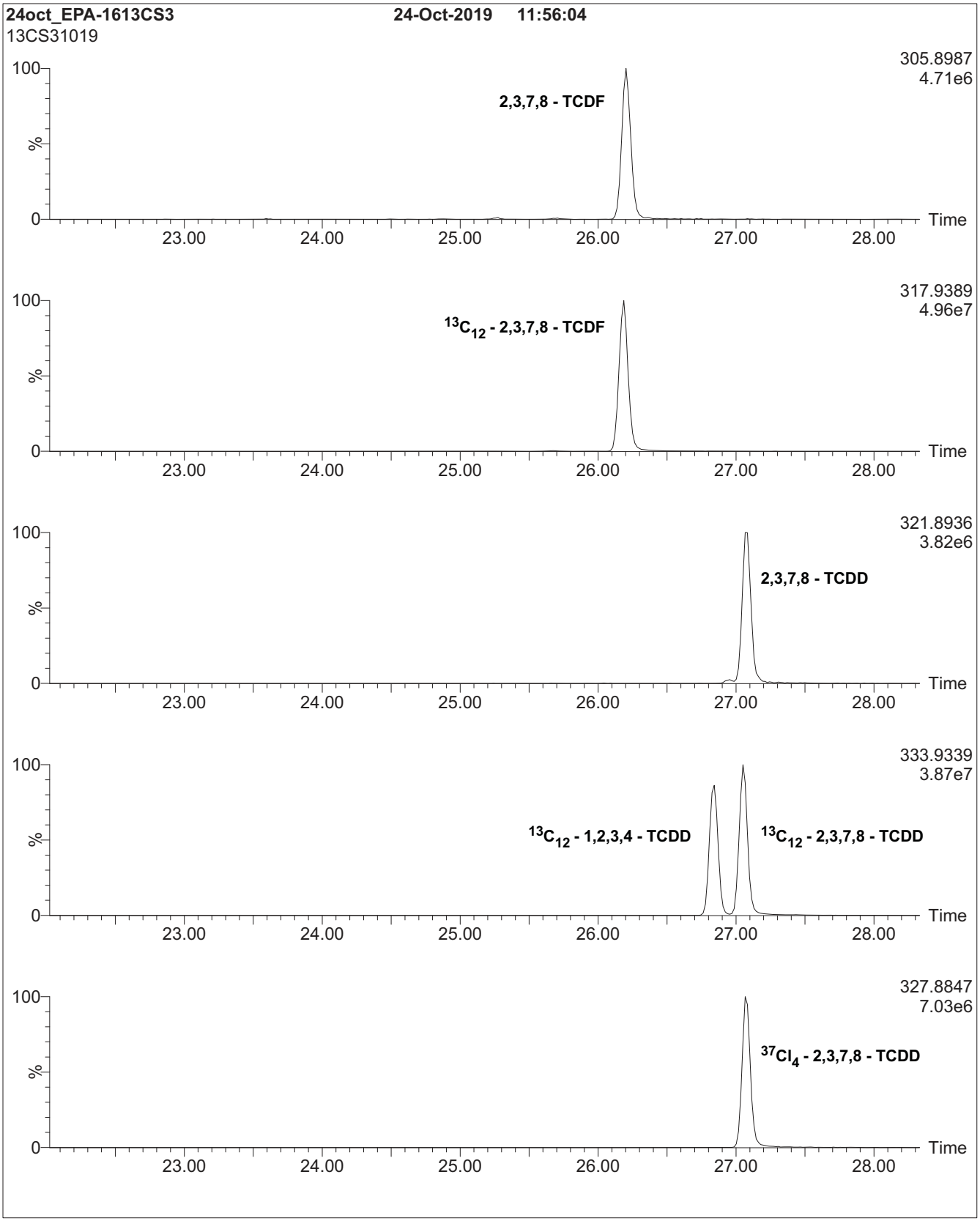


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

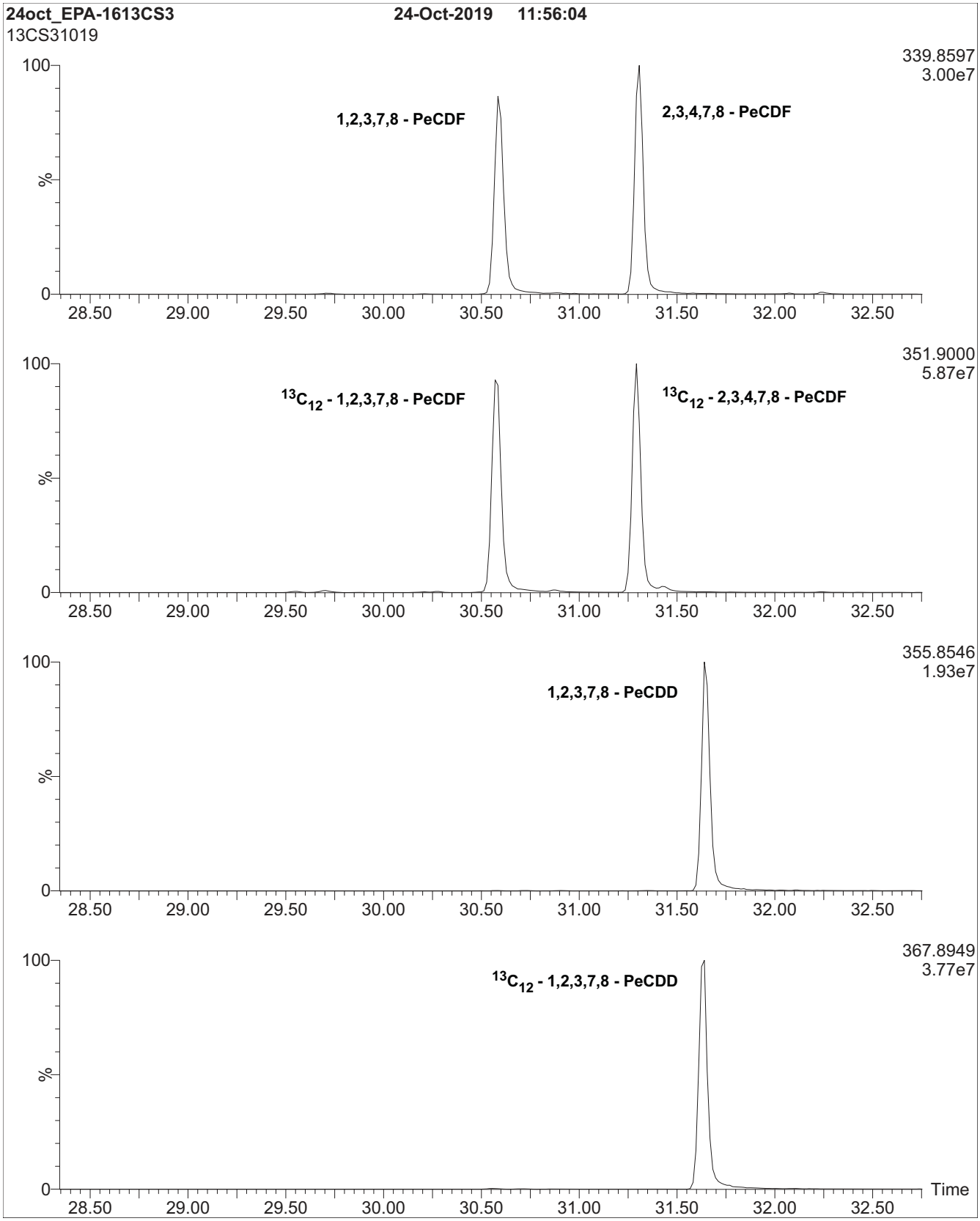


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

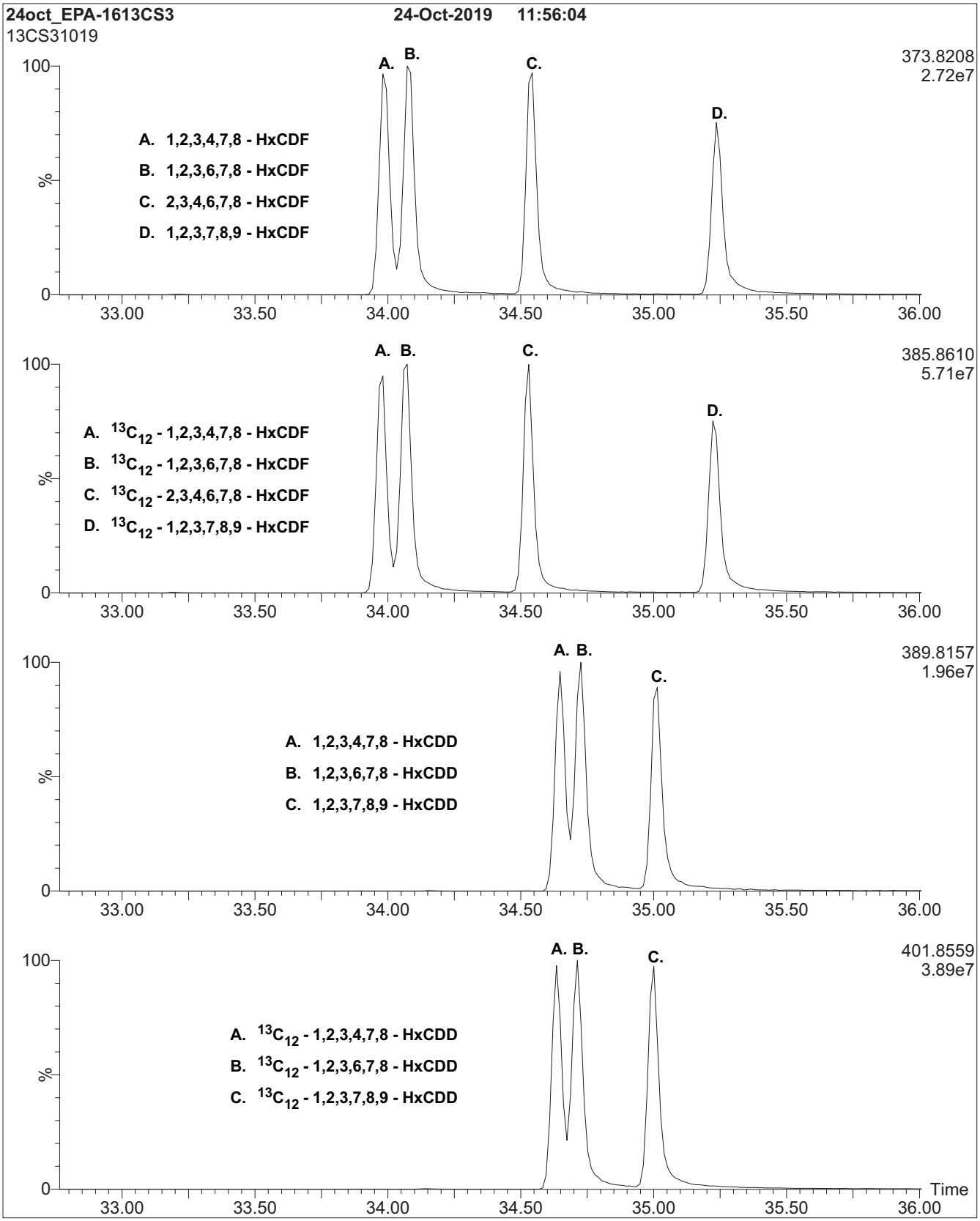


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

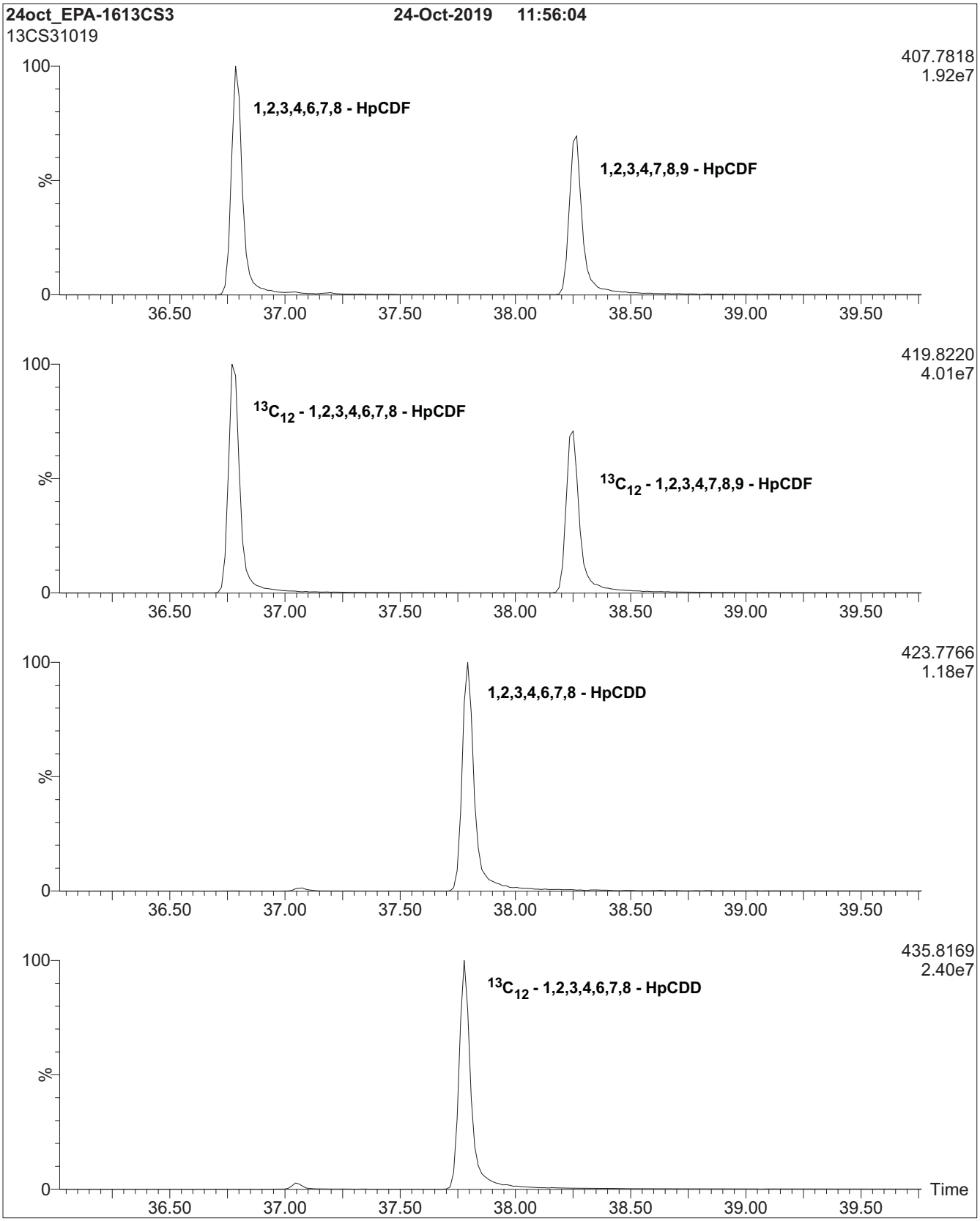
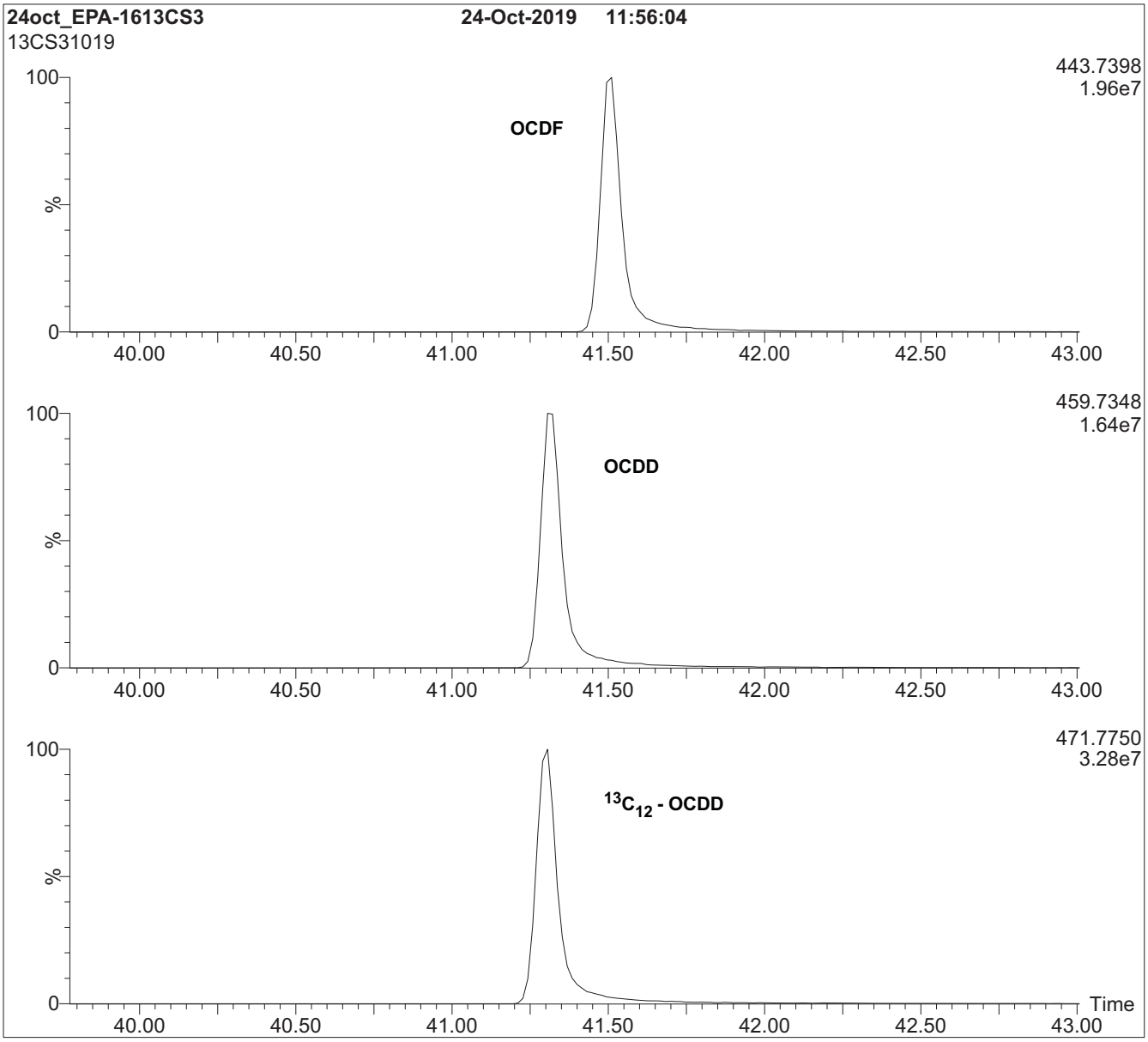


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min
Injector: 280 °C (Splitless Injection)
Ionization: EI+
Detector: 280 °C
SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)
12 °C/min to 200 °C
3 °C/min to 235 °C
235 °C (8 min)
8 °C/min to 310 °C
310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613PAR

U.S. EPA Method 1613 Native PCDD/PCDF Precision and Recovery Stock Solution

PRODUCT CODE:	EPA-1613PAR
LOT NUMBER:	13PAR1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/25/2021
LAST TESTED: (mm/dd/yyyy)	11/03/2021
EXPIRY DATE: (mm/dd/yyyy)	11/03/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

J013397
Read. JR
12/20/21

DESCRIPTION:

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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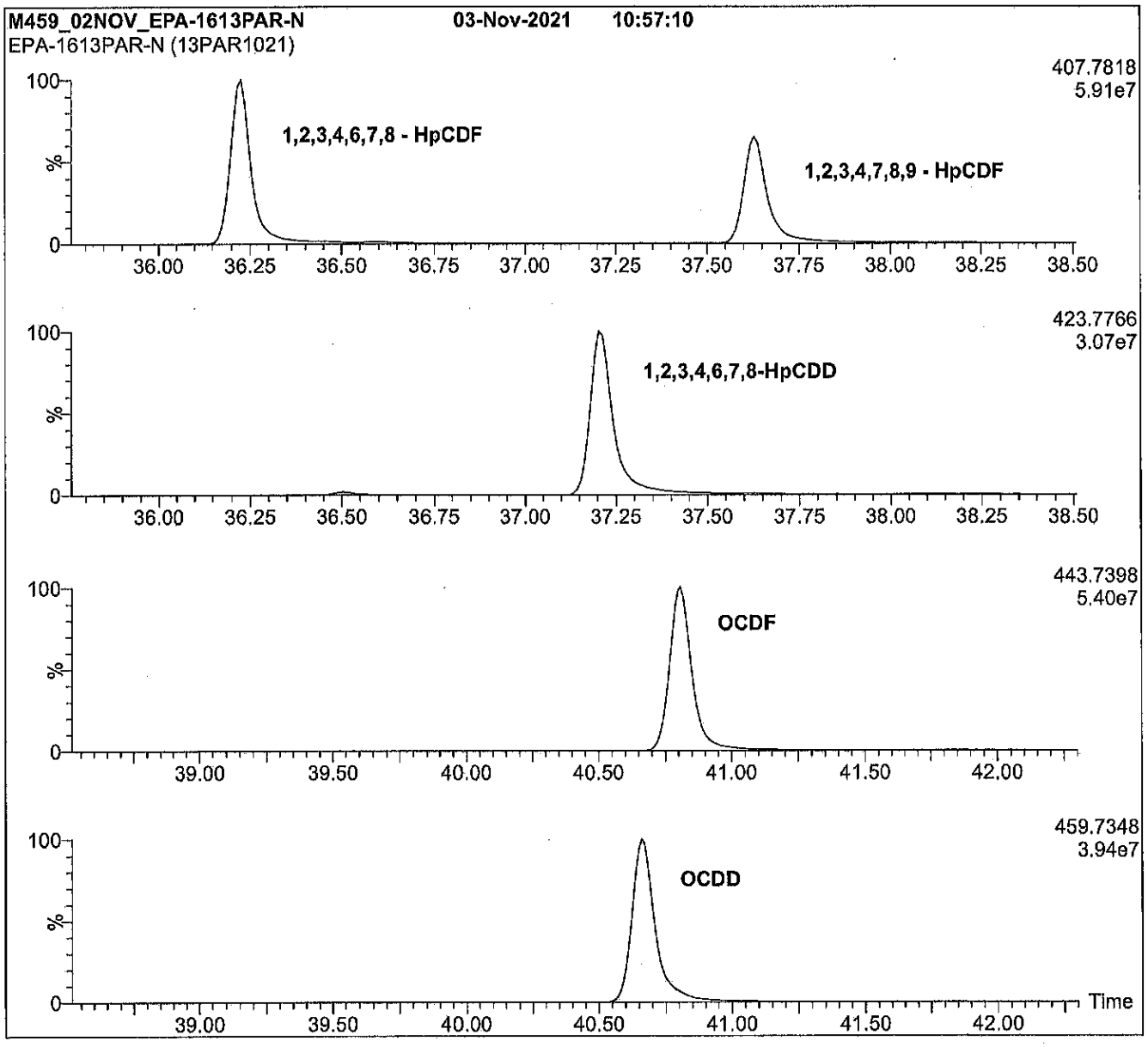
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Table A: **EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo-*p*-dioxin	OCDD	3268-87-9	400
PCDFs:			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613PAR

U.S. EPA Method 1613 Native PCDD/PCDF
Precision and Recovery Stock Solution

PRODUCT CODE:	EPA-1613PAR
LOT NUMBER:	13PAR1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/25/2021
LAST TESTED: (mm/dd/yyyy)	11/03/2021
EXPIRY DATE: (mm/dd/yyyy)	11/03/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

J013397
Read. JR
12/20/21

DESCRIPTION:

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo-*p*-dioxin	OCDD	3268-87-9	400
PCDFs:			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**

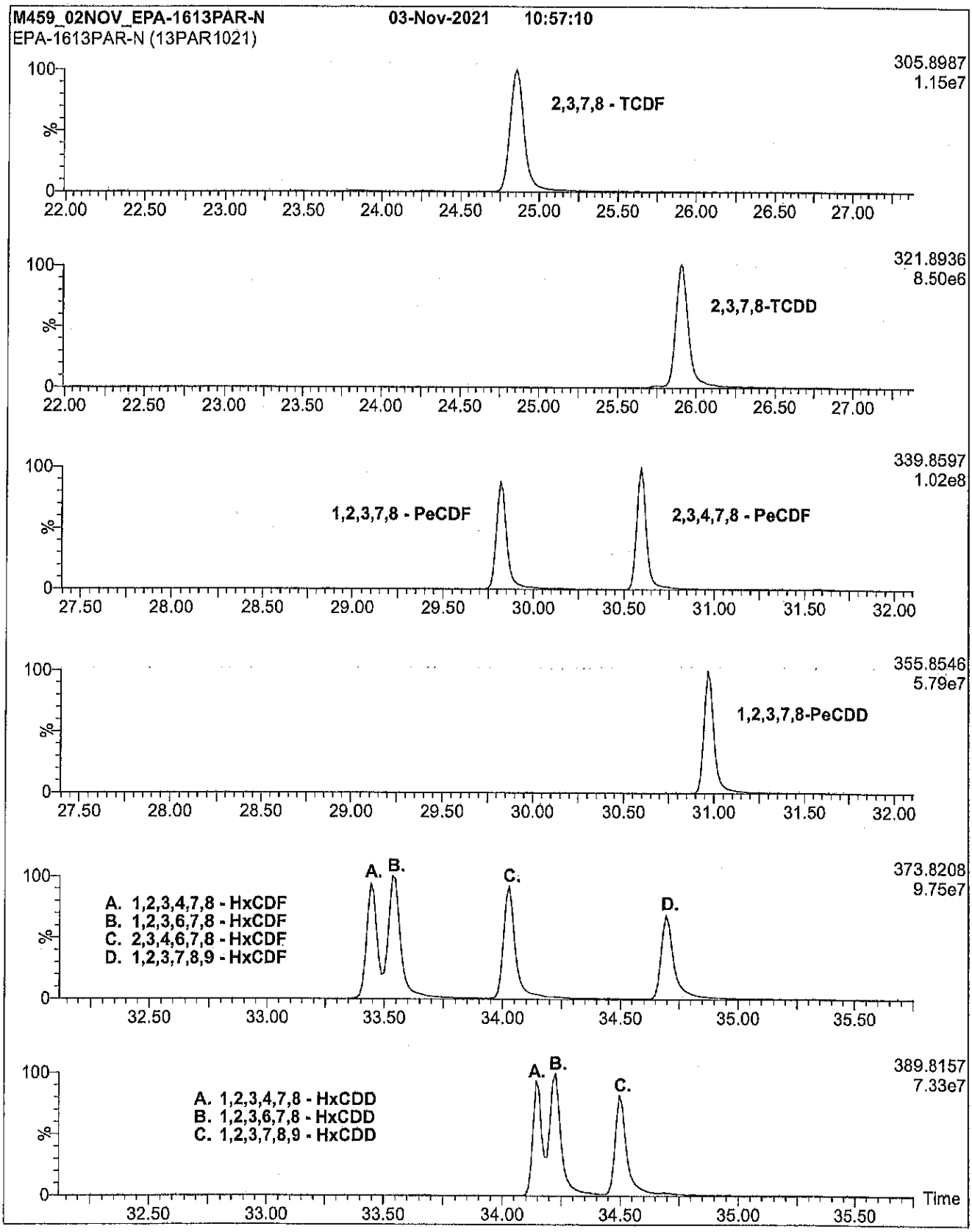
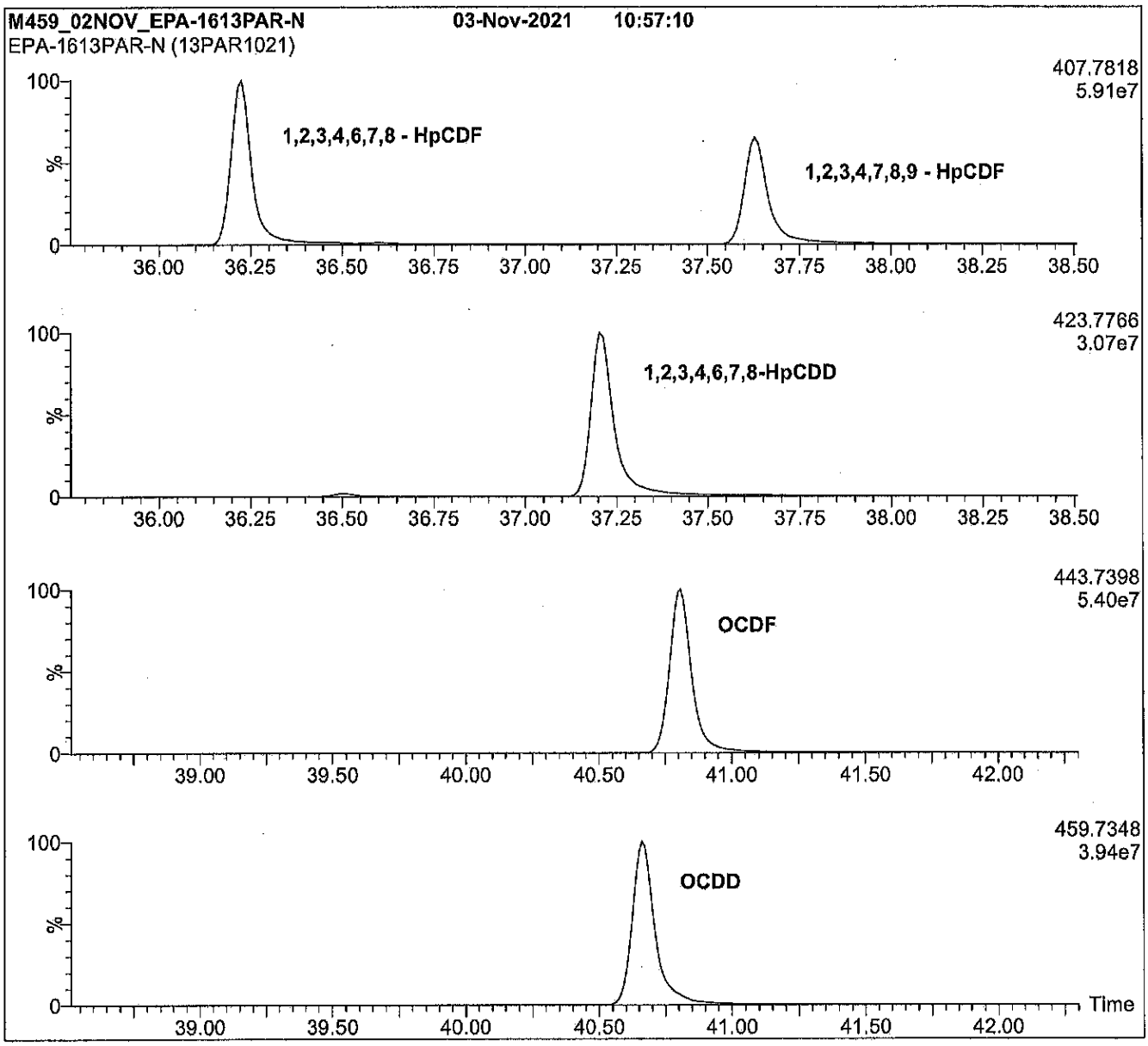


Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

K9821

CS3WT

Calibration and Verification Solution (EPA-1613CS3) combined with Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	11/01/2021
LAST TESTED: (mm/dd/yyyy)	11/02/2021
EXPIRY DATE: (mm/dd/yyyy)	11/02/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

CS3WT is a solution/mixture of native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Tables A and B.

CS3WT is an HRGC/HRMS calibration solution that was designed and prepared to be used according to U.S. EPA Method 1613, Revision B, in place of EPA-1613CS3 (lot: 13CS31021). Additionally, it contains the PCDD and PCDF isomers required to set retention time windows as well as test and establish isomer specificity for 2,3,7,8-TCDD on a DB-5 (or equivalent) capillary column.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS11021
EPA-1613CS2	13CS21021
EPA-1613CS3	13CS31021
EPA-1613CS4	13CS41021
EPA-1613CS5	13CS51021
EPA-1613CSL	13CSL1021
EPA-1613CS0.5	13CS0.51021

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Form#:13, Issued 2004-11-10
Revision#:9, Revised 2020-12-23

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to the quantitative components in this product. A maximum combined percent relative uncertainty of ±20% has been assigned to the semi-quantitative components in this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **CS3WT; Quantitative Components and Concentrations (ng/mL, ± 5%, in nonane/4.5% toluene)**

Compound		Acronym	CAS #	Concentration (ng/mL)
Native PCDDs:	**Designation[a]**			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin		2,3,7,8-TCDD	1746-01-6	10.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin		1,2,3,7,8-PeCDD	40321-76-4	50.0
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin		1,2,3,4,7,8-HxCDD	39227-28-6	50.0
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin		1,2,3,6,7,8-HxCDD	57653-85-7	50.0
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	Last HxCDD[b]	1,2,3,7,8,9-HxCDD	19408-74-3	50.0
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	Last HpCDD	1,2,3,4,6,7,8-HpCDD	35822-46-9	50.0
Octachlorodibenzo-*p*-dioxin		OCDD	3268-87-9	100
Native PCDFs:	**Designation[a]**			
2,3,7,8-Tetrachlorodibenzofuran		2,3,7,8-TCDF	51207-31-9	10.0
1,2,3,7,8-Pentachlorodibenzofuran		1,2,3,7,8-PeCDF	57117-41-6	50.0
2,3,4,7,8-Pentachlorodibenzofuran		2,3,4,7,8-PeCDF	57117-31-4	50.0
1,2,3,4,7,8-Hexachlorodibenzofuran		1,2,3,4,7,8-HxCDF	70648-26-9	50.0
1,2,3,6,7,8-Hexachlorodibenzofuran		1,2,3,6,7,8-HxCDF	57117-44-9	50.0
1,2,3,7,8,9-Hexachlorodibenzofuran		1,2,3,7,8,9-HxCDF	72918-21-9	50.0
2,3,4,6,7,8-Hexachlorodibenzofuran		2,3,4,6,7,8-HxCDF	60851-34-5	50.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran	First HpCDF[c]	1,2,3,4,6,7,8-HpCDF	67562-39-4	50.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Last HpCDF	1,2,3,4,7,8,9-HpCDF	55673-89-7	50.0
Octachlorodibenzofuran		OCDF	39001-02-0	100
Mass-Labelled PCDDs:				
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:				
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100
Cleanup Standard:				
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin		$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	10.0
Internal Standards:				
1,2,3,4-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4-TCDD	114423-99-3	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	109719-82-6	100

[a] First/Last eluting isomer for the specified homologue group (see Table B for additional Window Definers).
[b, c] – see Table B for footnote.

Table B: **CS3WT; Semi-Quantitative Components and Concentrations (ng/mL, ± 20%, in nonane/4.5% toluene)**

Compound		Acronym	CAS #	Concentration (ng/mL)
PCDD Window Definers:	**Designation[a]**			
1,3,6,8-Tetrachlorodibenzo-*p*-dioxin	First TCDD	1,3,6,8-TCDD	33423-92-6	10.0
1,2,8,9-Tetrachlorodibenzo-*p*-dioxin	Last TCDD	1,2,8,9-TCDD	62470-54-6	10.0
1,2,4,6,8-/1,2,4,7,9-Pentachlorodibenzo-*p*-dioxin	First PeCDD	1,2,4,6,8-PeCDD 1,2,4,7,9-PeCDD	71998-76-0 82291-37-0	50.0[d]
1,2,3,8,9-Pentachlorodibenzo-*p*-dioxin	Last PeCDD	1,2,3,8,9-PeCDD	71925-18-3	50.0
1,2,4,6,7,9-Hexachlorodibenzo-*p*-dioxin	First HxCDD	1,2,4,6,7,9-HxCDD	39227-62-8	50.0
1,2,3,4,6,7,9-Heptachlorodibenzo-*p*-dioxin	First HpCDD	1,2,3,4,6,7,9-HpCDD	58200-70-7	50.0
PCDF Window Definers:	**Designation[a]**			
1,3,6,8-Tetrachlorodibenzofuran	First TCDF	1,3,6,8-TCDF	71998-72-6	10.0
1,2,8,9-Tetrachlorodibenzofuran	Last TCDF	1,2,8,9-TCDF	70648-22-5	10.0
1,3,4,6,8-Pentachlorodibenzofuran	First PeCDF	1,3,4,6,8-PeCDF	83704-55-6	50.0
1,2,3,8,9-Pentachlorodibenzofuran	Last PeCDF	1,2,3,8,9-PeCDF	83704-54-5	50.0
1,2,3,4,6,8-Hexachlorodibenzofuran	First HxCDF	1,2,3,4,6,8-HxCDF	69698-60-8	50.0
2,3,7,8-TCDD Resolution Testing Isomers:				
1,2,3,4-Tetrachlorodibenzo-*p*-dioxin		1,2,3,4-TCDD	30746-58-8	5.00
1,2,3,7-/1,2,3,8-Tetrachlorodibenzo-*p*-dioxin		1,2,3,7-TCDD 1,2,3,8-TCDD	67028-18-6 53555-02-5	5.00[d]
1,2,3,9-Tetrachlorodibenzo-*p*-dioxin		1,2,3,9-TCDD	71669-26-6	10.0

[a] First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

[b] 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD on a 60 m DB-5 column. Use 1,2,3,7,8,9-HxCDD (see Table A) and 1,2,3,4,6,7,9-HpCDD to approximate the end of the HxCDD window.

[c] 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF on a 60 m DB-5 column. Use 1,2,3,4,6,7,8-HpCDF (see Table A) to approximate the end of the HxCDF window.

[d] Total concentration of isomers.

Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

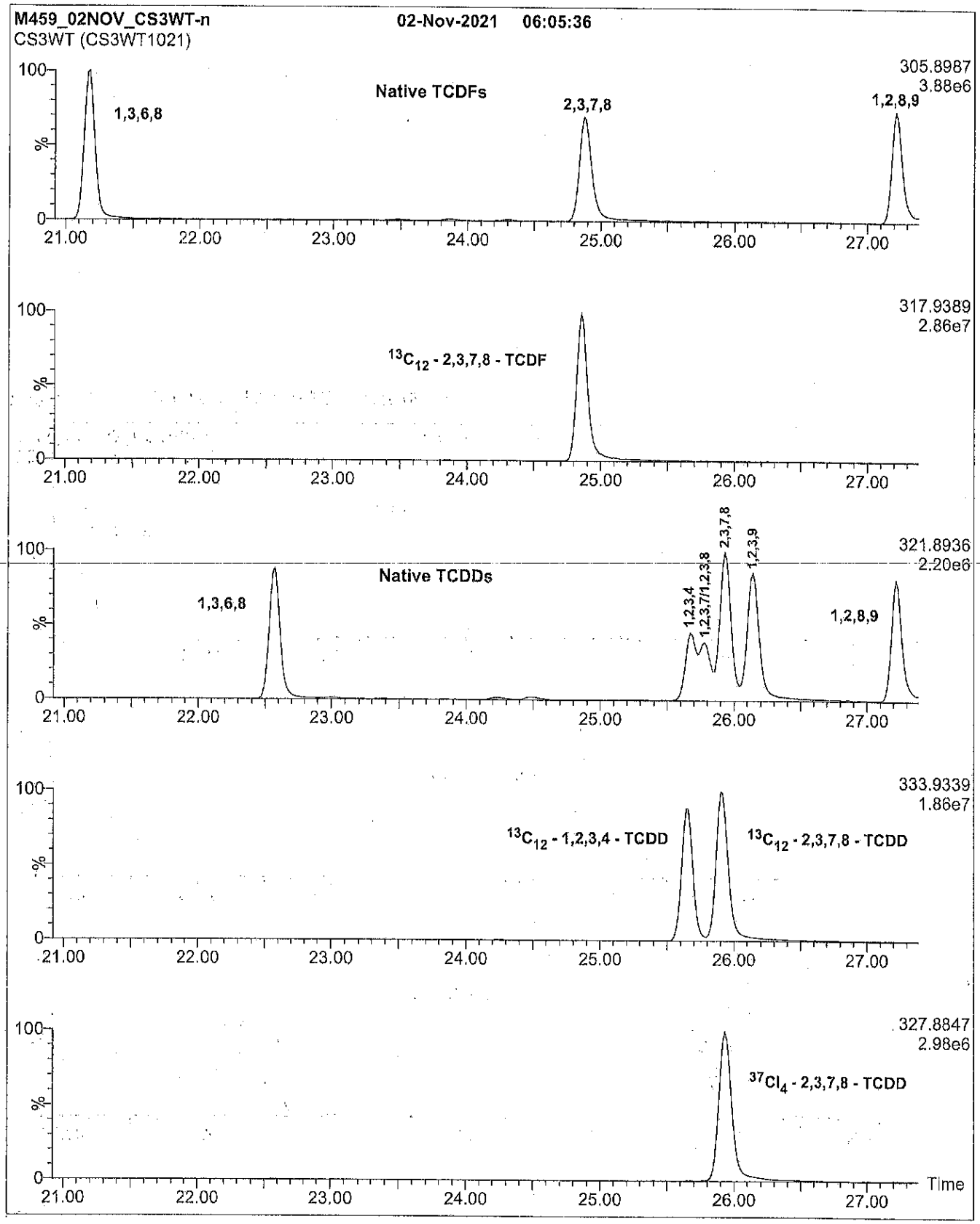


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

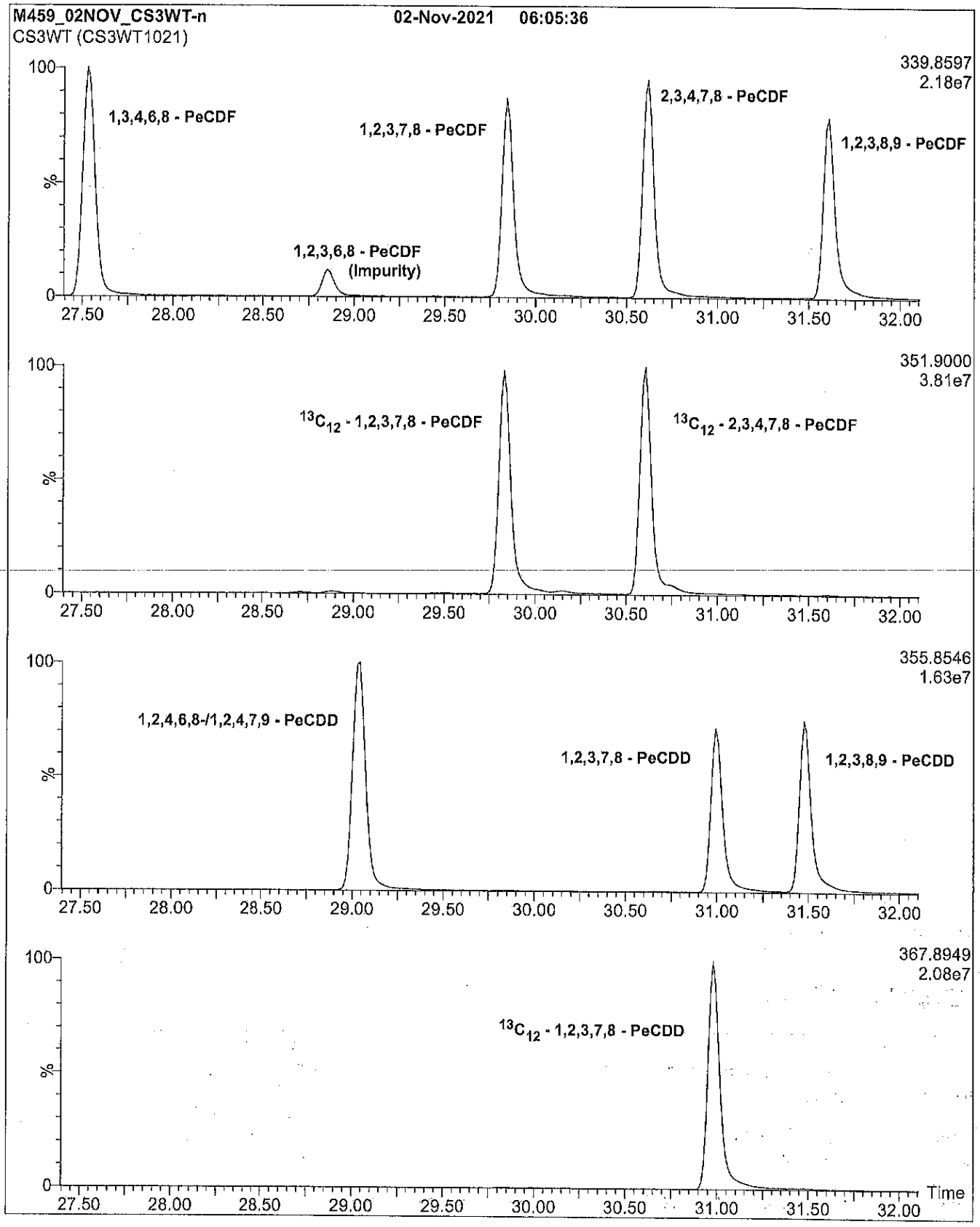


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

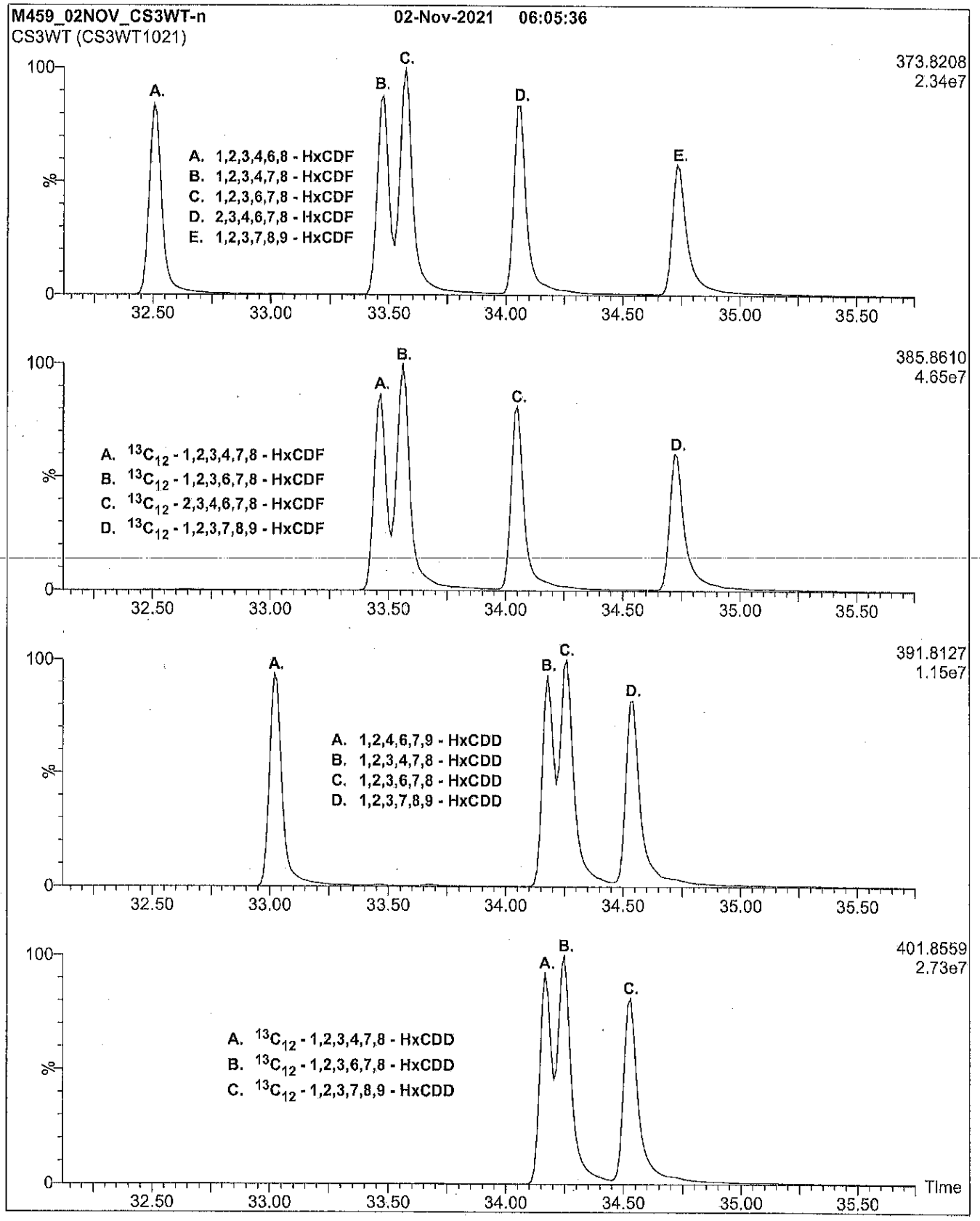


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

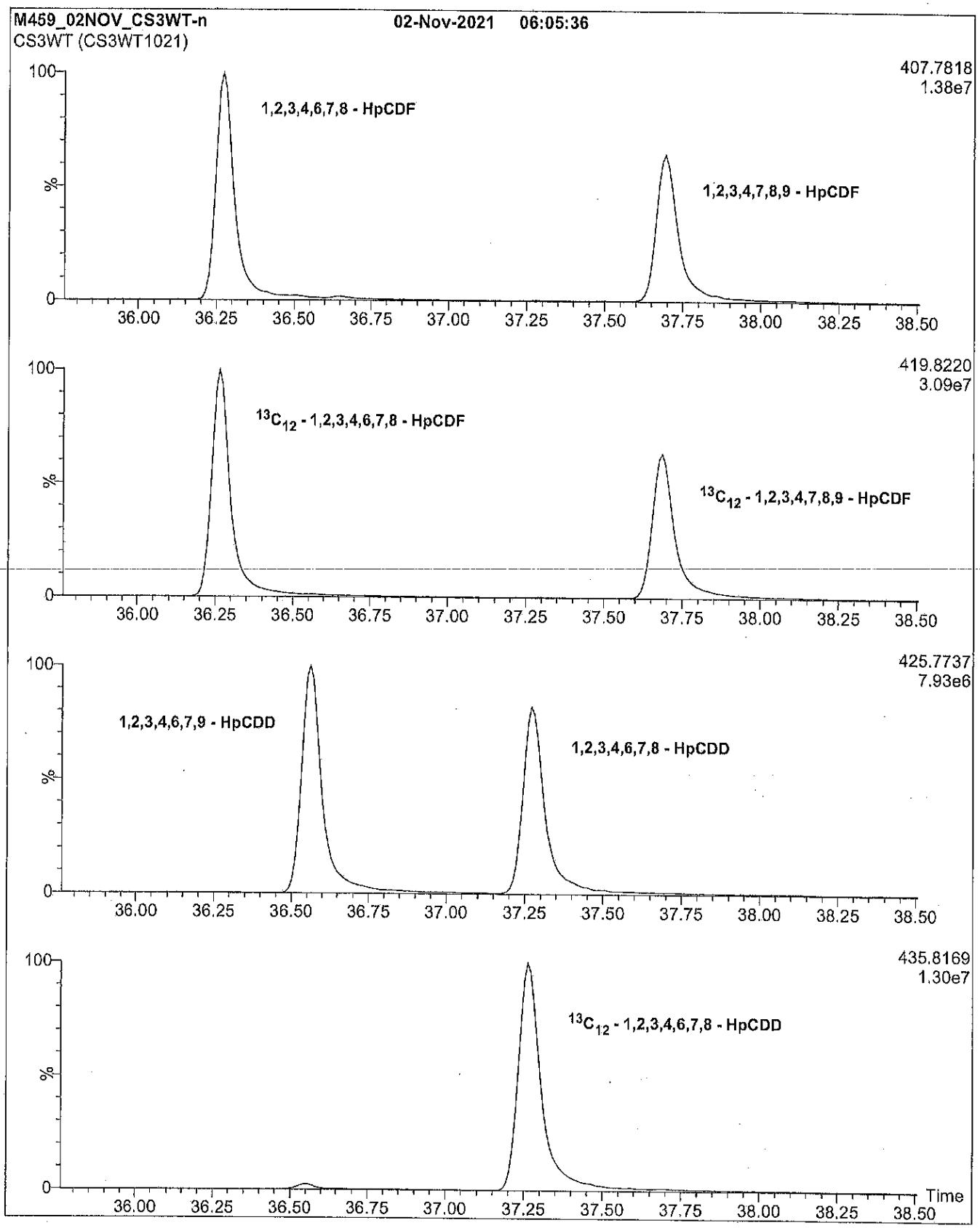
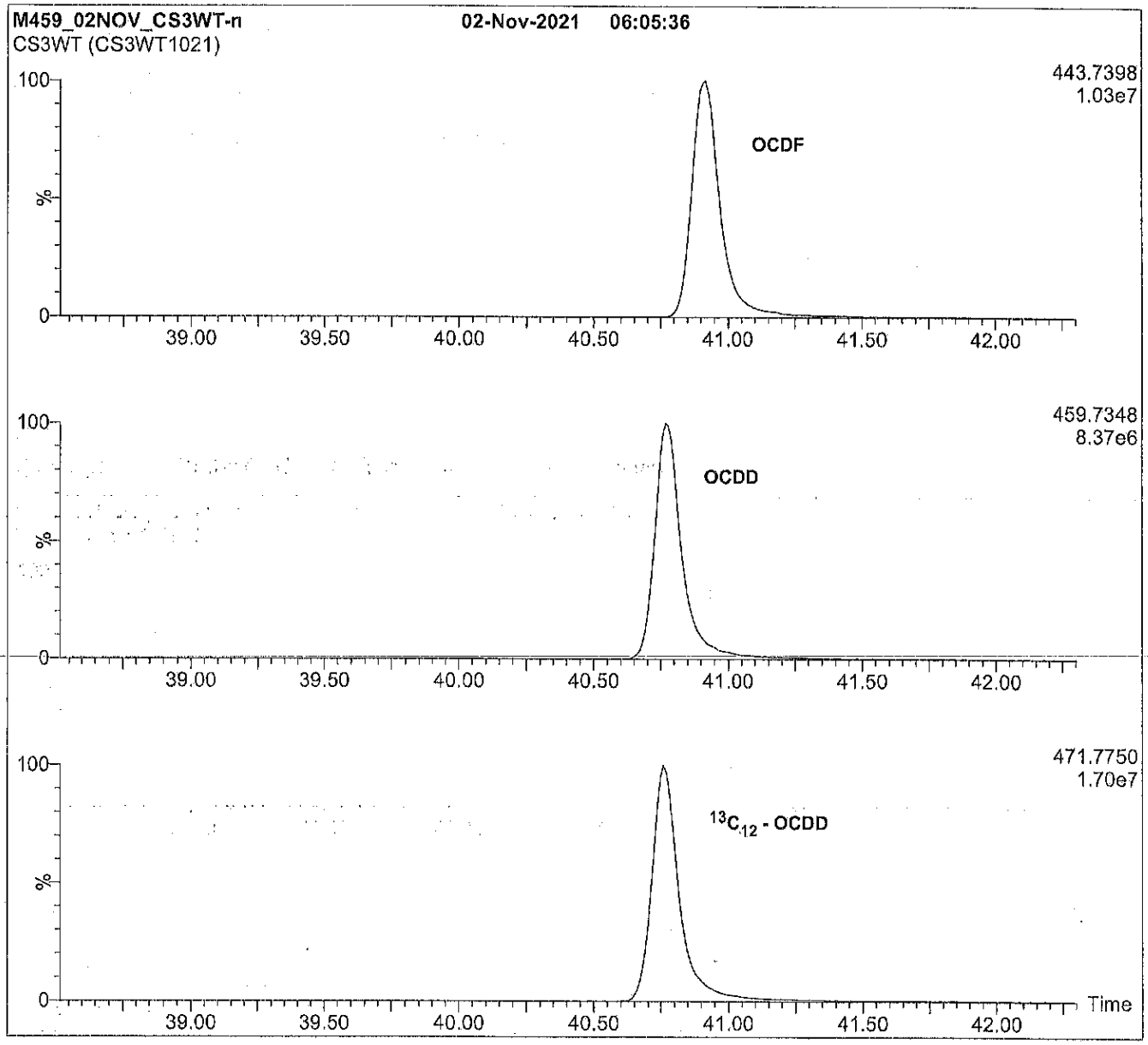


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613LCS

U.S. EPA Method 1613
Labelled Compound Stock Solution

PRODUCT CODE:	EPA-1613LCS
LOT NUMBER:	13LCS1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

K 9985
JK Reed
10/27/22

DESCRIPTION:

EPA-1613LCS is a solution/mixture of mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613LCS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots, x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613LCS; Components and Concentrations (ng/mL, ± 5% in nonane/3.2% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

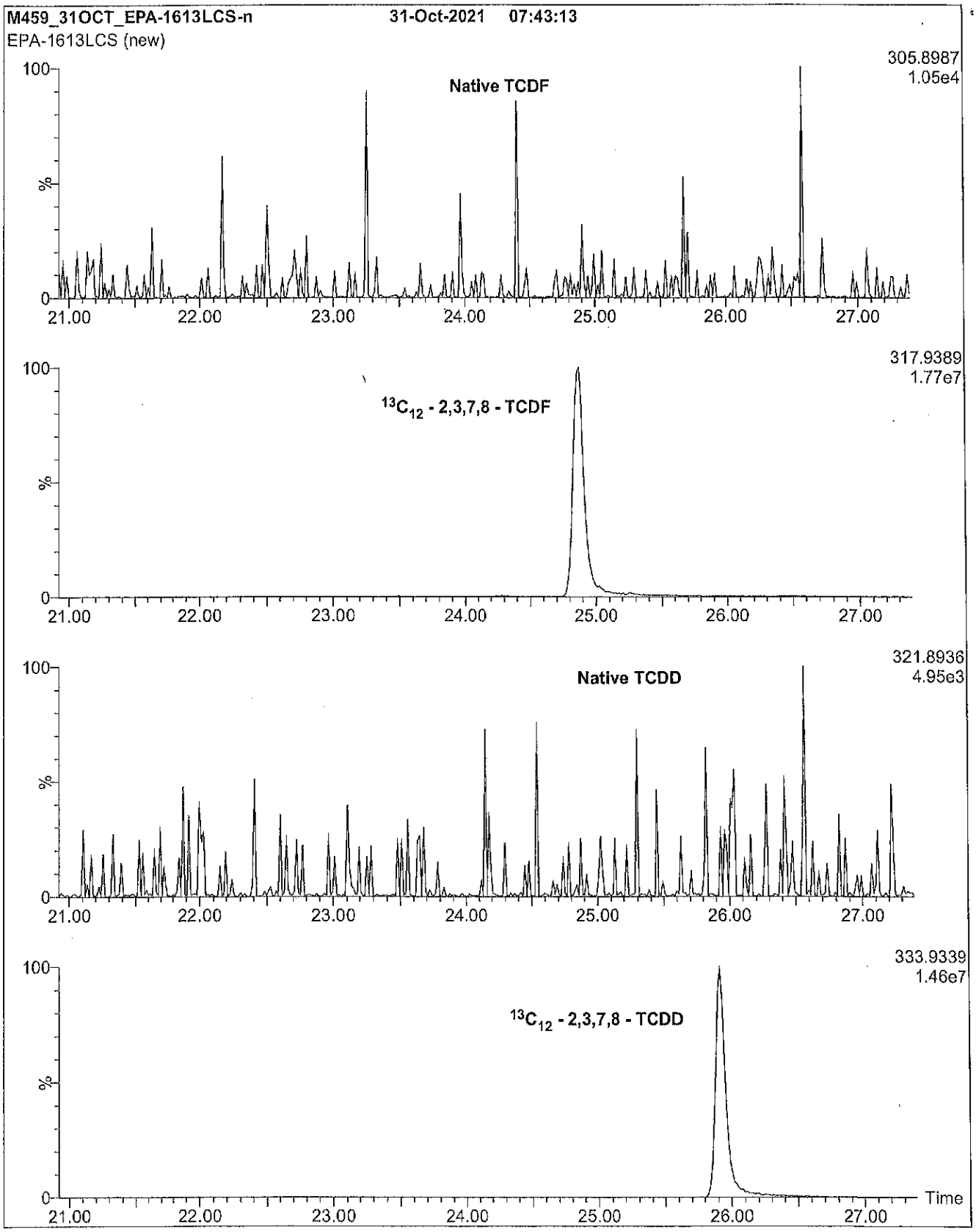


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

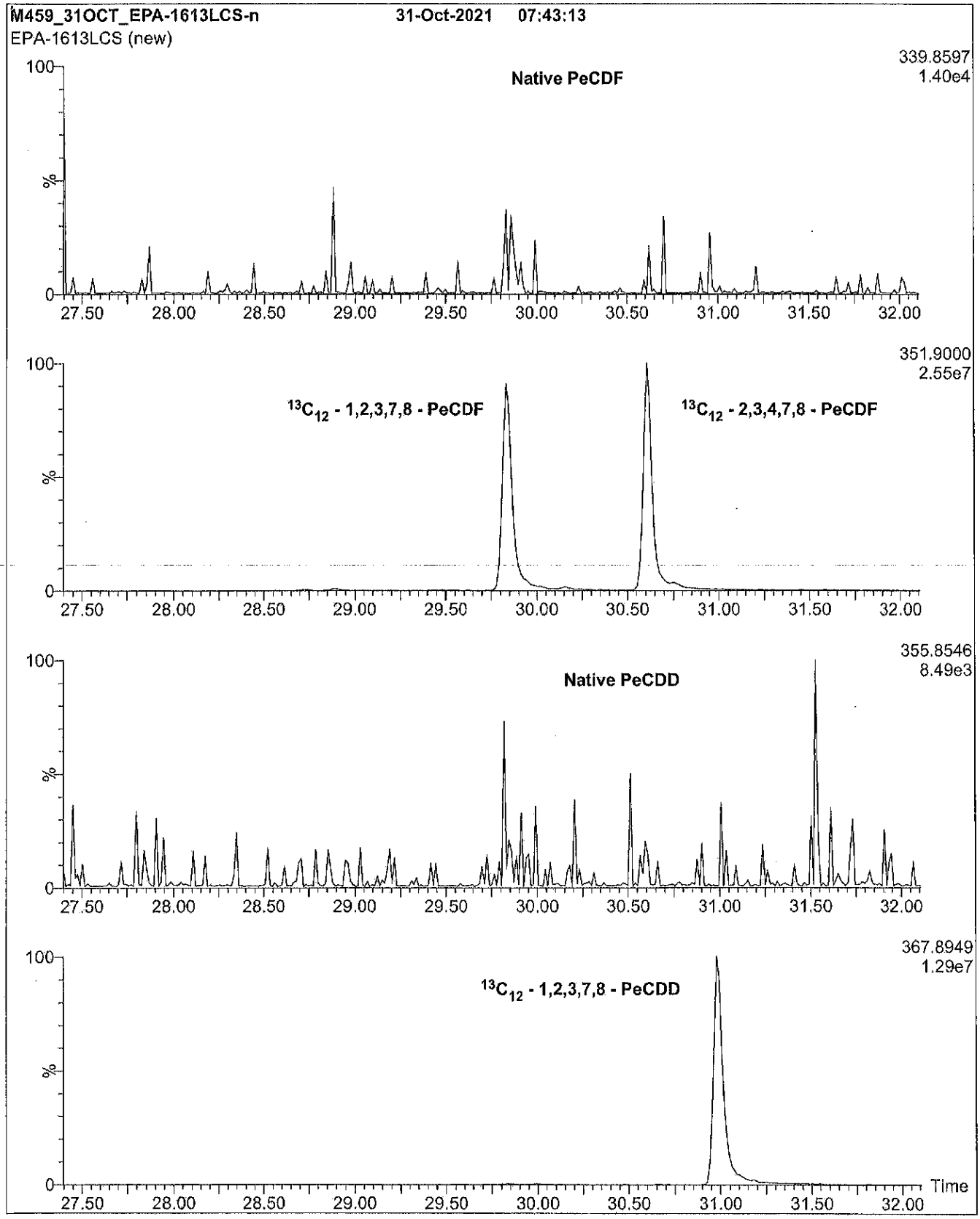


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

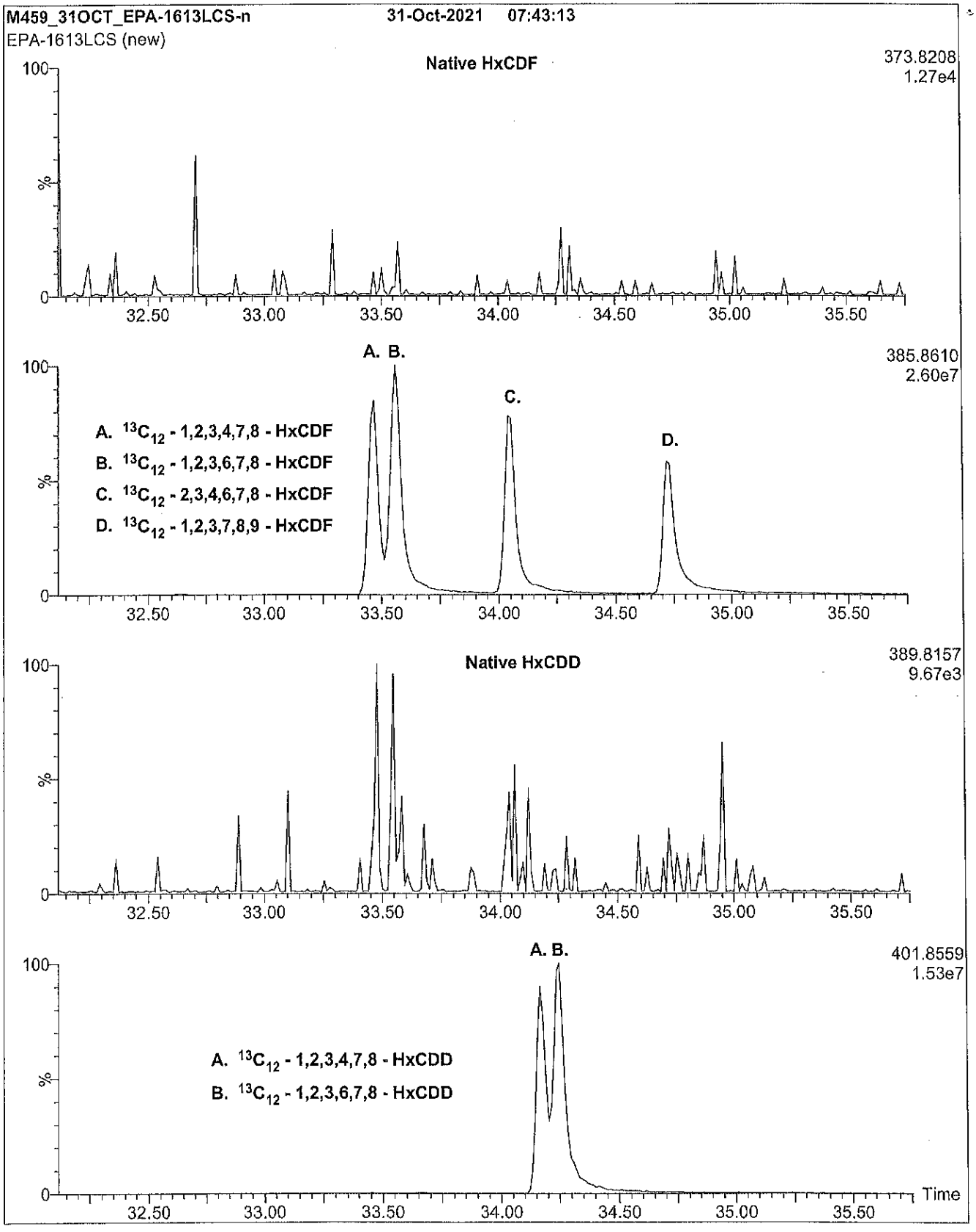


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

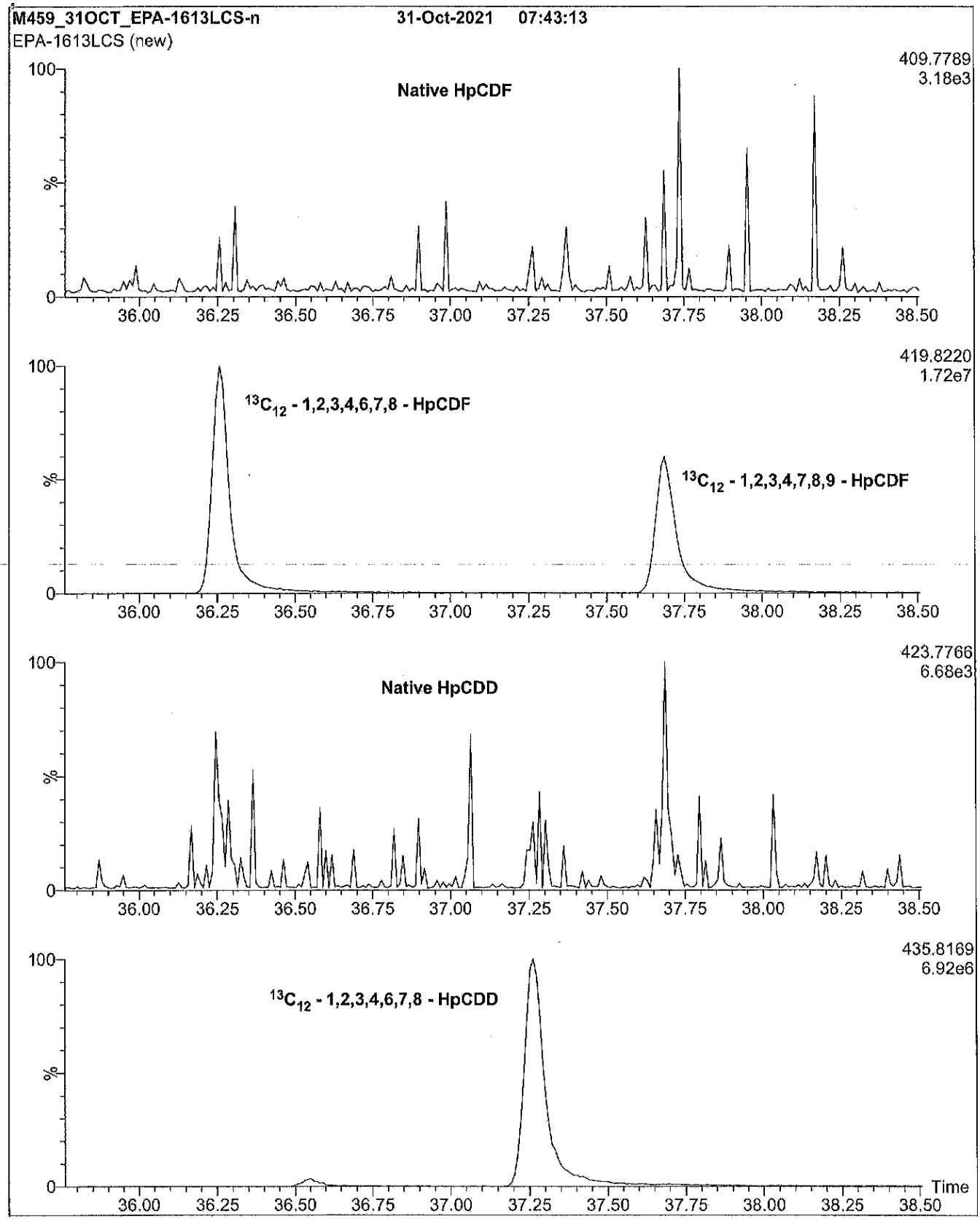
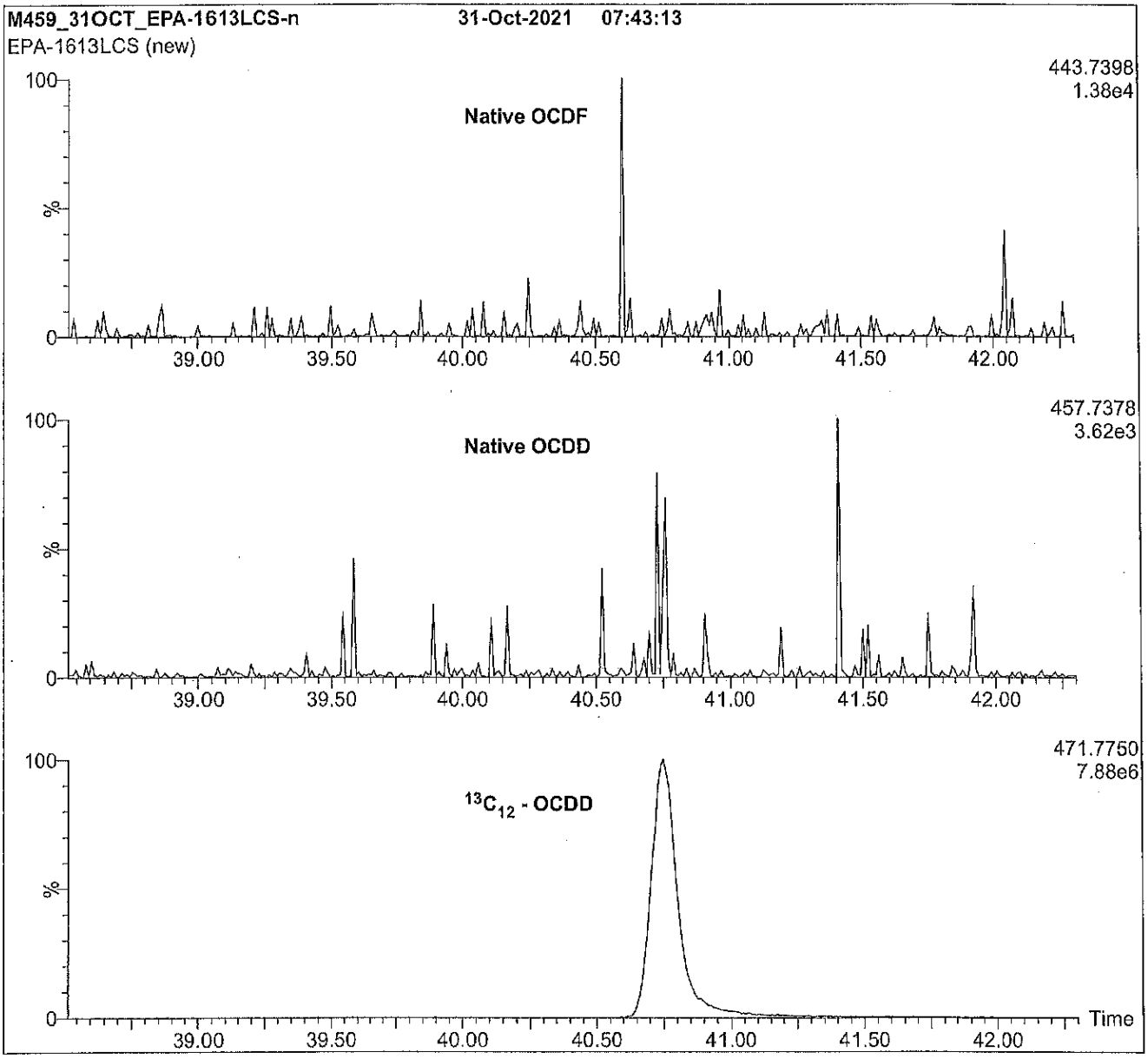


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CSS

U.S. EPA Method 1613 Cleanup Standard Spiking Solution

PRODUCT CODE:	EPA-1613CSS
LOT NUMBER:	13CSS1021
SOLVENT(S):	Nonane
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

K 9986
Recd. 10/27/22 JR

DESCRIPTION:

EPA-1613CSS contains 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin at the concentration given in Table A.

EPA-1613CSS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

Table A: **EPA-1613CSS; Components and Concentrations (ng/mL, ± 5% in nonane)**

Compound	Acronym	CAS #	Concentration (ng/mL)
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin	$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	40.0

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

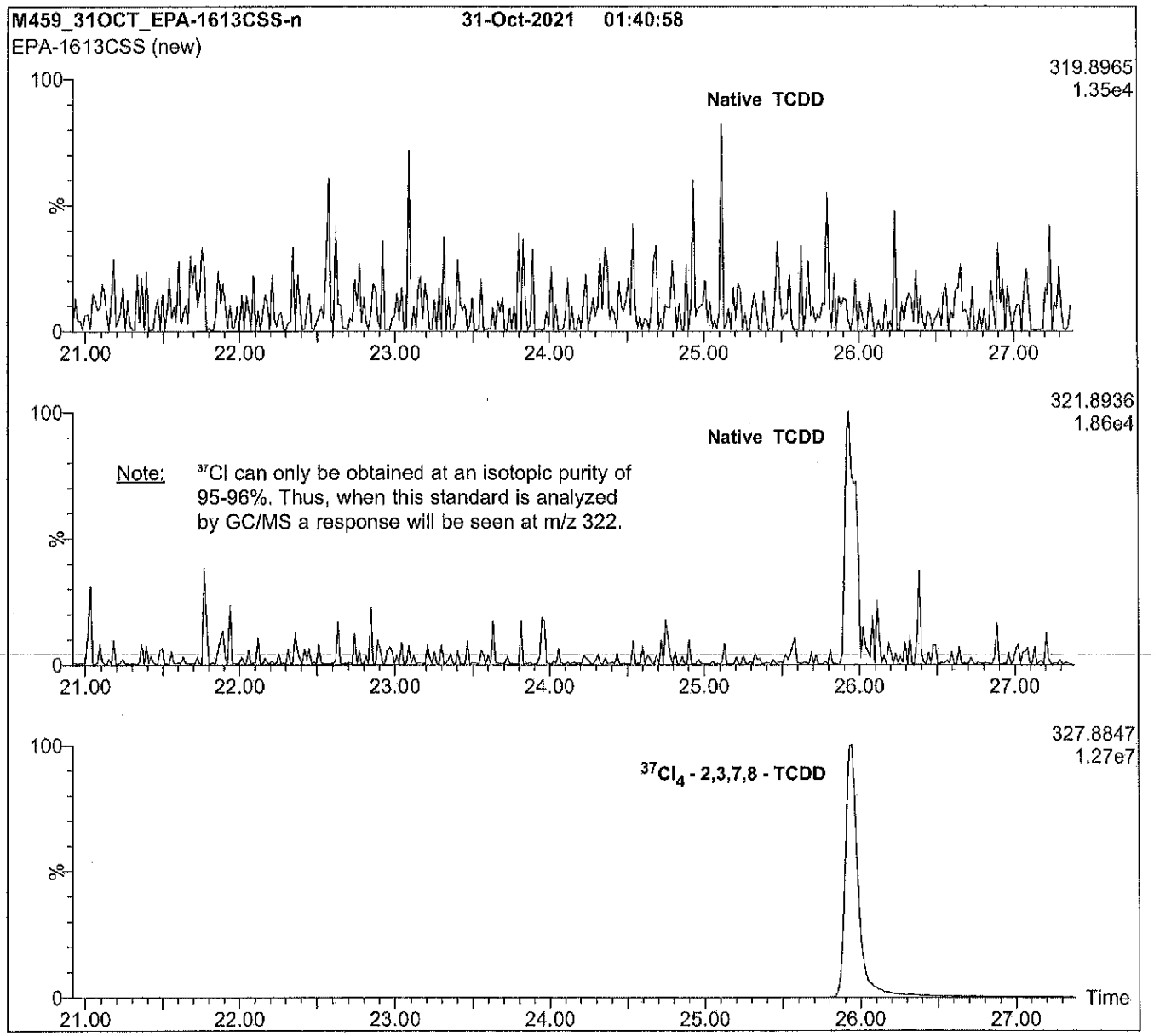
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **EPA-1613CSS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613LCS

U.S. EPA Method 1613
Labelled Compound Stock Solution

PRODUCT CODE:	EPA-1613LCS
LOT NUMBER:	13LCS1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

L1259

DESCRIPTION:

EPA-1613LCS is a solution/mixture of mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613LCS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

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EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

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QUALITY MANAGEMENT:

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CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613LCS; Components and Concentrations (ng/mL, ± 5% in nonane/3.2% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

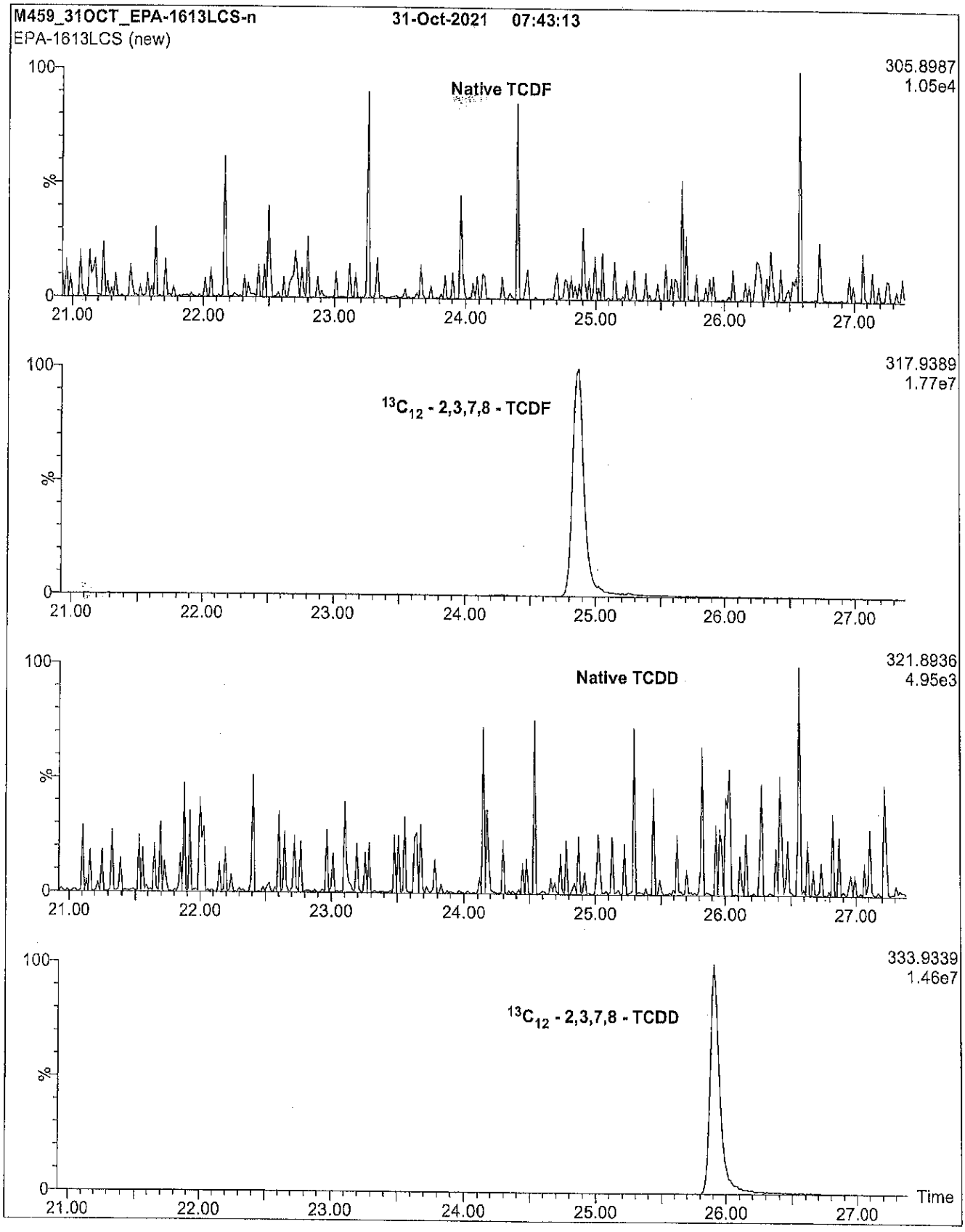


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

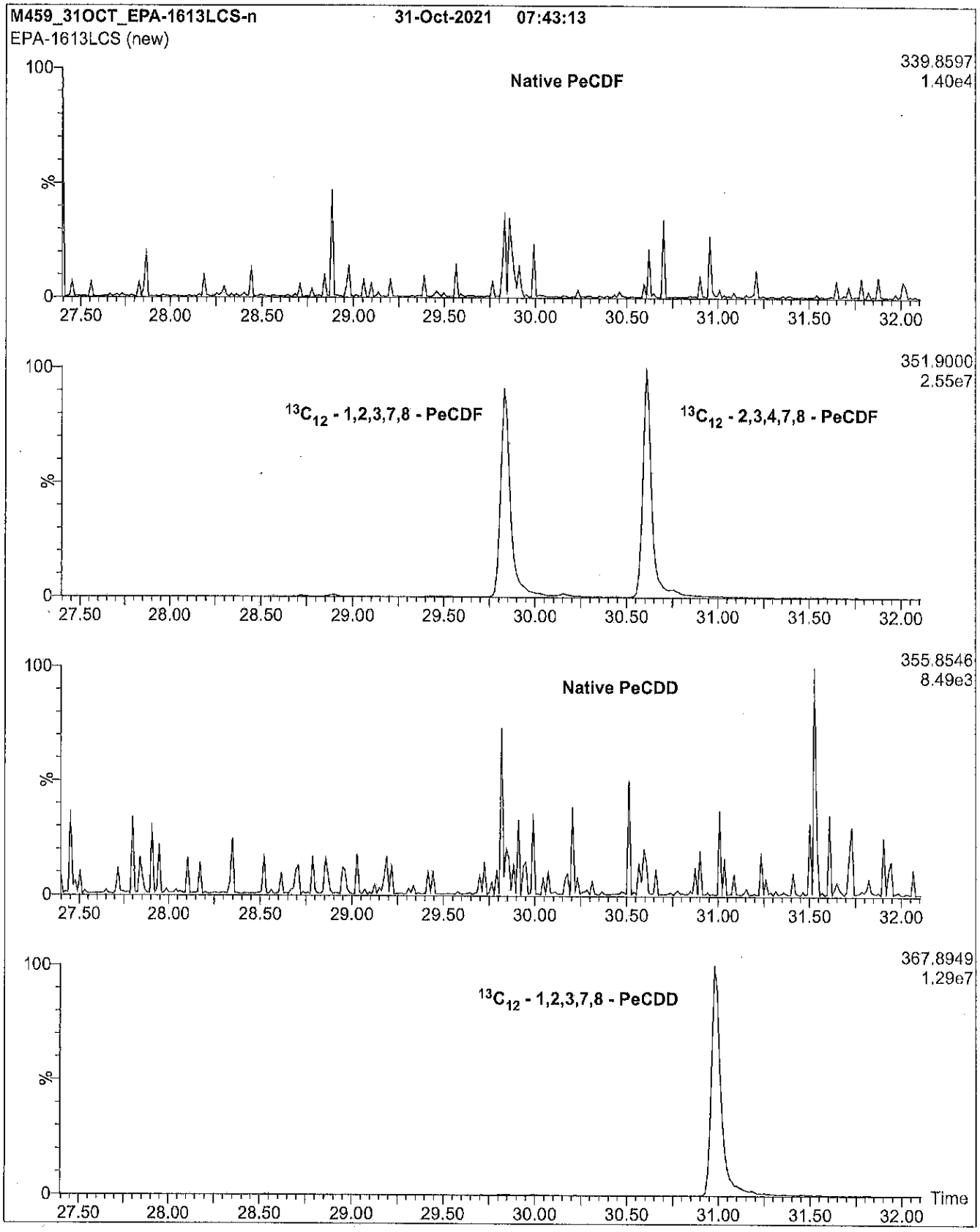


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

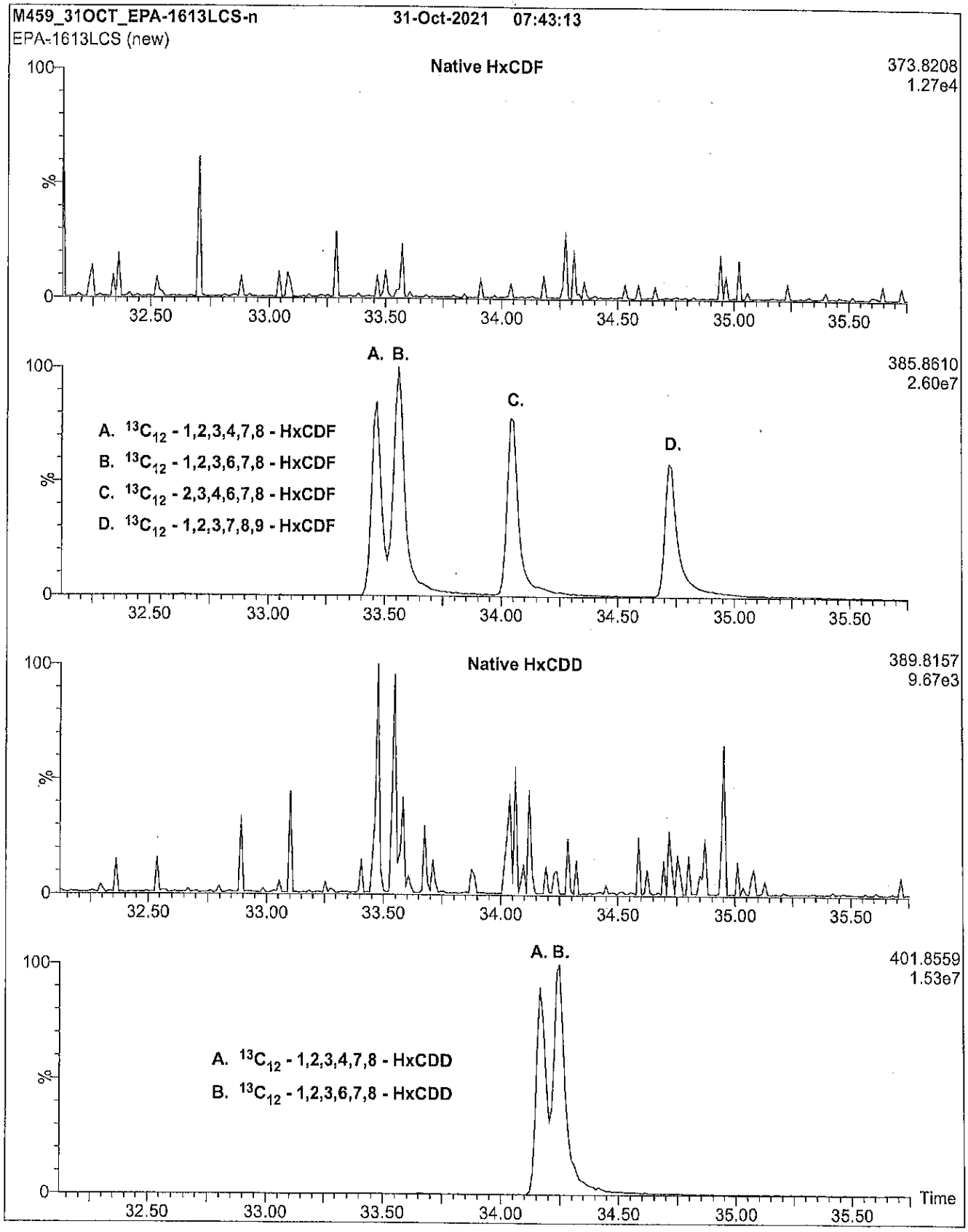


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

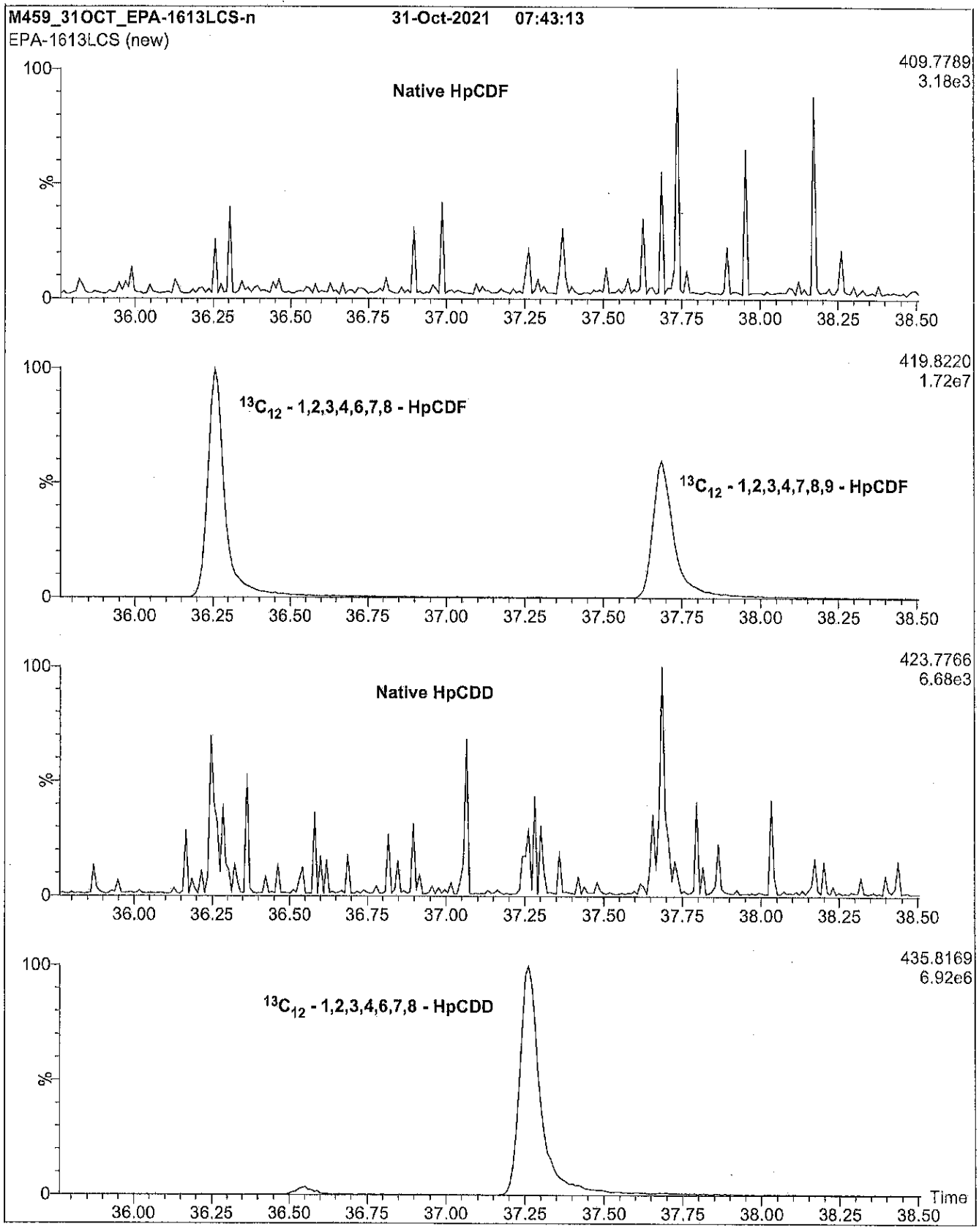
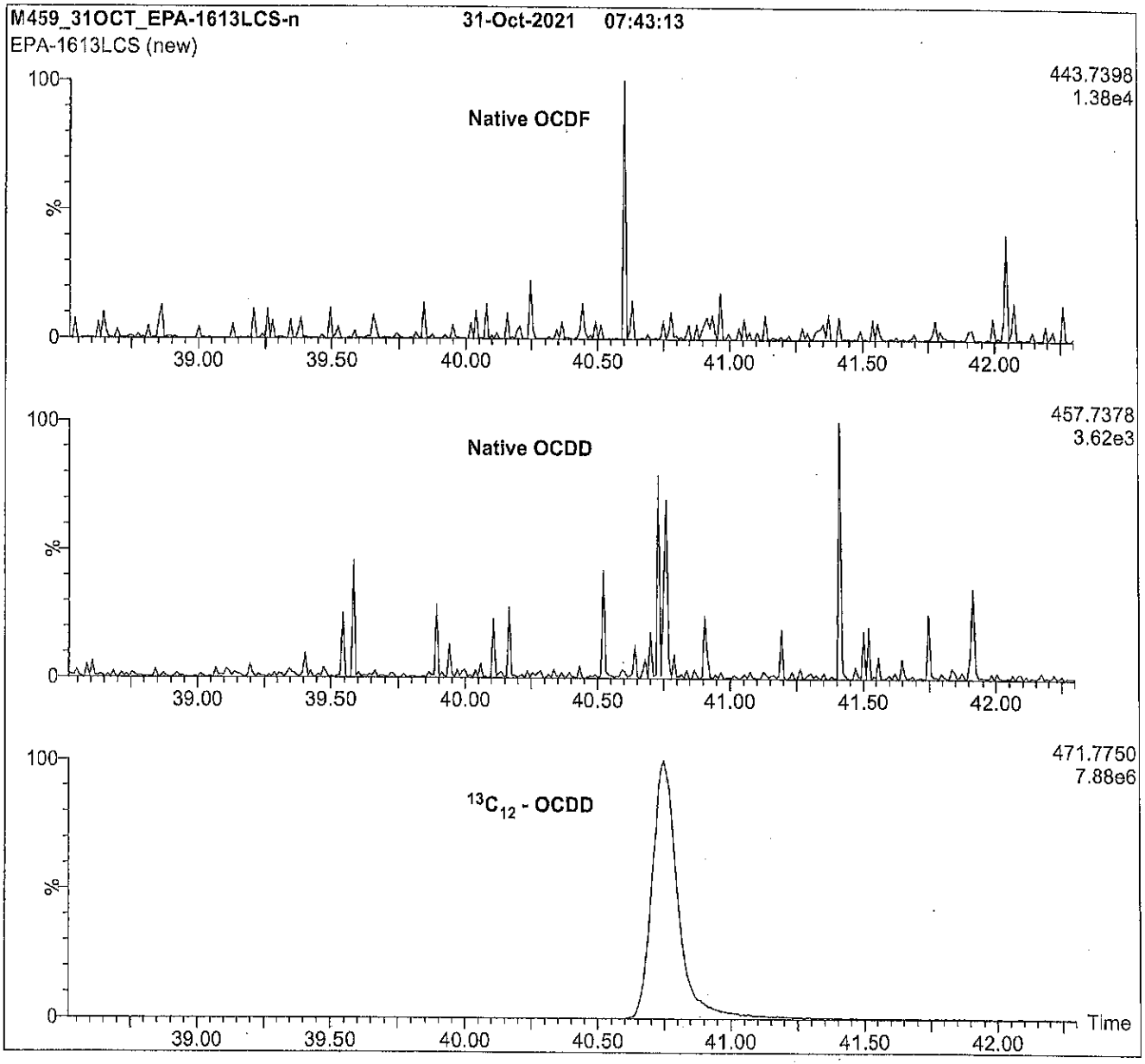


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15600

Order Number: CB015015 Date Shipped: 1/31/2023 AirBill No(s): 633163298570

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: SUE DUNNIHOO
ANALYTICAL RESOURCES INC.
4611 S. 134TH PLACE SUITE 100
TUKWILA WA 98168
250-695-6207

Sample ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0172 - LA41373	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0173 - LA41374	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0174 - ~~LA41374~~ LA41375 JS- 02/06/23	1	PUGET SOUND SEDIMENT RM	PS-SRM

01/31/2023

PUGET SOUND SRM FOR THE DUWAMISH AOC5 PROJECT

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	(1400) 01/31/2023	Jacob Shafer	02/06/23 1415
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Report No. 00, 9/11/2014 *SMP Version 3.3*

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Standard Record

Standard ID: L002084

Printed: 3/2/2023 8:59:18AM

Description:	Dioxin ISC Mix	Expires:	24-Feb-2024
Standard Type:	Other	Prepared:	24-Feb-2023
Solvent:	Nonane	Prepared By:	Peter Kepler
Final Volume (mls):	1	Department:	HRGCMS
Vials:	1	Last Edit:	24-Feb-2023 11:19 by PK
Vendor:	NA	Lot #:	1234
Vendor Catalog #:			

Comments

Stock: H9902: 2378-TCDF, 3467-TCDF, 2348-TCDF, 1278-TCDD, 2378-TCDD. each @ 1000 ng/mL

10 ul to 1 mL FV in Nonane. Final Conc = 10 ng/mL. Analytes and units not available in Element.

Analyte	CAS Number	Concentration	Units
2,3,7,8-TCDF	51207-31-9	10	ug/mL
2,3,7,8-TCDD	1746-01-6	10	ug/mL

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 C	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/28/23 15:38	File ID:	XDT_m1230511-125
% Solids:	47.25	Preparation:	SWN EPA 3050B	Analyzed:	05/11/23 22:35
Batch:	BLD0687	Sequence:	SLE0209	Initial/Final:	1.003 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00042

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	29.6	20	0.55	1.05	
7439-92-1	Lead	32.4	20	0.11	0.21	
7440-22-4	Silver	0.33	20	0.05	0.42	J

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 C	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/28/23 15:38	File ID:	XDT_m1230511-126
% Solids:	48.35	Preparation:	SWN EPA 3050B	Analyzed:	05/11/23 22:40
Batch:	BLD0687	Sequence:	SLE0209	Initial/Final:	1.002 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00042

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	29.9	20	0.54	1.03	
7439-92-1	Lead	30.4	20	0.11	0.21	
7440-22-4	Silver	0.33	20	0.05	0.41	J

PREPARATION BATCH SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0687 Batch Matrix: Solid
Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	XDT_m1230511-125	04/28/23 15:38	
LDW23-SS1803	23D0136-03	XDT_m1230511-126	04/28/23 15:38	
Blank	BLD0687-BLK1	XDT_m1230509a-069	04/28/23 15:38	
Blank	BLD0687-BLK2	XDT_m1230510A-031	04/28/23 15:38	Added 5/11/2023 by MCB
LCS	BLD0687-BS1	XDT_m1230509a-070	04/28/23 15:38	
LCS	BLD0687-BS2	XDT_m1230510A-033	04/28/23 15:38	Added 5/11/2023 by MCB

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 04/28/23 Time: 1016 - 1538 Balance ID: BAL10

Matrix: Soil Block ID: #16 Block Temp: 96C Thermometer: 20-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
23D136-01	C		1.003	50			
-03			1.002				
23D394-01			1.018				
-02	B		1.051				
-03			1.058				
-04	C		1.065				
-05			1.012				
-06			1.074				
-07			1.019				
-08			1.039				
-09			1.018				
-10			1.036				
-11			1.033				
-12	B		1.008				
-13	C		1.087				
23D396-01			1.033				
-03			1.030				
BLD687-blk	—		—				23D394-01
-bs	—		—				
-dup	—		1.016				
-MS	—		1.019				
-MSD	—		1.014				
23D37-02	D		1.063				
-04			1.012				
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Chemical/Reagent ID:

HNO_3: L4188 1:1 HNO_3: L4206 HCl: — H_2O_2: K11056

Tube Lot#: 2210117 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23D0136

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

Batch: BLD0687 | Laboratory ID: BLD0687-BLK1 | Prepared: 04/28/23 15:38

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 05/09/23 21:43

Sequence: SLE0163 | Calibration: GE00034 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium-52	ND	20	0.26	0.50	U
7439-92-1	Lead-208	ND	20	0.05	0.10	U

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Batch:	BLD0687	Laboratory ID:	BLD0687-BLK2	Prepared:	04/28/23 15:38
Matrix:	Solid	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 17:54
Sequence:	SLE0204	Calibration:	GE00040	Instrument:	ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-22-4	Silver-107	ND	20	0.02	0.20	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/09/23 21:48
Batch:	BLD0687	Laboratory ID:	BLD0687-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Chromium-52	25.0	25.6		102	80 - 120
Lead-208	25.0	27.6		110	80 - 120

* Indicates values outside of QC limits

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/10/23 18:05
Batch:	BLD0687	Laboratory ID:	BLD0687-BS2
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Silver-107	25.0	25.1		101	80 - 120

* Indicates values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Control Limt: +/- 10.00%
Sequence: SLE0163

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0163-ICV1	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	51.3	103	ug/L	EPA 6020B
	Lead-208	50.000	51.5	103	ug/L	EPA 6020B
	Silver-107	50.000	51.7	103	ug/L	EPA 6020B
SLE0163-CCV1	Chromium-52	50.000	49.1	98.2	ug/L	EPA 6020B
	Chromium-53	50.000	51.6	103	ug/L	EPA 6020B
	Lead-208	50.000	50.2	100	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLE0163-CCV2	Chromium-52	50.000	48.9	97.9	ug/L	EPA 6020B
	Chromium-53	50.000	51.0	102	ug/L	EPA 6020B
	Lead-208	50.000	51.6	103	ug/L	EPA 6020B
	Silver-107	50.000	47.4	94.7	ug/L	EPA 6020B
SLE0163-CCV3	Chromium-52	50.000	48.4	96.8	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	53.8	108	ug/L	EPA 6020B
	Silver-107	50.000	45.0	90.0	ug/L	EPA 6020B
SLE0163-CCV4	Chromium-52	50.000	48.4	96.8	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
	Silver-107	50.000	45.3	90.7	ug/L	EPA 6020B
SLE0163-CCV5	Chromium-52	50.000	48.2	96.4	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.5	ug/L	EPA 6020B
	Lead-208	50.000	53.1	106	ug/L	EPA 6020B
	Silver-107	50.000	45.2	90.4	ug/L	EPA 6020B
SLE0163-CCV6	Chromium-52	50.000	48.0	96.1	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	53.0	106	ug/L	EPA 6020B
	Silver-107	50.000	47.0	94.1	ug/L	EPA 6020B
SLE0163-CCV7	Chromium-52	50.000	48.4	96.9	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	51.0	102	ug/L	EPA 6020B
SLE0163-CCV8	Chromium-52	50.000	48.7	97.5	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	52.6	105	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Control Limt: +/- 10.00%
Sequence: SLE0163

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0163-CCV9	Chromium-52	50.000	49.4	98.8	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	52.4	105	ug/L	EPA 6020B
SLE0163-CCVA	Chromium-52	50.000	48.9	97.8	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	51.3	103	ug/L	EPA 6020B
SLE0163-CCVB	Chromium-52	50.000	49.1	98.3	ug/L	EPA 6020B
	Chromium-53	50.000	51.1	102	ug/L	EPA 6020B
	Lead-208	50.000	52.3	105	ug/L	EPA 6020B
SLE0163-CCVC	Chromium-52	50.000	48.3	96.6	ug/L	EPA 6020B
	Chromium-53	50.000	49.9	99.7	ug/L	EPA 6020B
	Lead-208	50.000	56.3	113	ug/L	EPA 6020B
SLE0163-CCVD	Chromium-52	50.000	48.0	96.0	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	53.8	108	ug/L	EPA 6020B
SLE0163-CCVE	Chromium-52	50.000	48.6	97.3	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	54.9	110	ug/L	EPA 6020B
SLE0163-CCVF	Chromium-52	50.000	48.7	97.4	ug/L	EPA 6020B
	Chromium-53	50.000	51.0	102	ug/L	EPA 6020B
	Lead-208	50.000	54.3	109	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-ICV1	Chromium-52	50.000	52.9	106	ug/L	EPA 6020B
	Chromium-53	50.000	51.3	103	ug/L	EPA 6020B
	Lead-208	50.000	52.6	105	ug/L	EPA 6020B
	Silver-107	50.000	50.8	102	ug/L	EPA 6020B
SLE0204-CCV1	Chromium-52	50.000	51.5	103	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	50.3	101	ug/L	EPA 6020B
	Silver-107	50.000	50.1	100	ug/L	EPA 6020B
SLE0204-CCV2	Chromium-52	50.000	49.6	99.2	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.6	ug/L	EPA 6020B
	Lead-208	50.000	50.8	102	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.6	ug/L	EPA 6020B
SLE0204-CCV3	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.7	ug/L	EPA 6020B
	Lead-208	50.000	50.4	101	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.5	ug/L	EPA 6020B
SLE0204-CCV4	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.0	ug/L	EPA 6020B
	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
	Silver-107	50.000	49.8	99.6	ug/L	EPA 6020B
SLE0204-CCV5	Chromium-52	50.000	51.1	102	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	98.9	ug/L	EPA 6020B
	Lead-208	50.000	52.8	106	ug/L	EPA 6020B
	Silver-107	50.000	48.1	96.2	ug/L	EPA 6020B
SLE0204-CCV6	Chromium-52	50.000	49.2	98.3	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.4	ug/L	EPA 6020B
	Lead-208	50.000	49.6	99.2	ug/L	EPA 6020B
	Silver-107	50.000	47.6	95.1	ug/L	EPA 6020B
SLE0204-CCV7	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.8	ug/L	EPA 6020B
	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
	Silver-107	50.000	48.6	97.2	ug/L	EPA 6020B
SLE0204-CCV8	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.4	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCV8	Lead-208	50.000	50.1	100	ug/L	EPA 6020B
	Silver-107	50.000	49.5	99.1	ug/L	EPA 6020B
SLE0204-CCV9	Chromium-52	50.000	49.4	98.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.8	ug/L	EPA 6020B
	Lead-208	50.000	52.2	104	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.6	ug/L	EPA 6020B
SLE0204-CCVA	Chromium-52	50.000	50.2	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.7	ug/L	EPA 6020B
	Lead-208	50.000	51.6	103	ug/L	EPA 6020B
	Silver-107	50.000	48.9	97.9	ug/L	EPA 6020B
SLE0204-CCVB	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.0	98.1	ug/L	EPA 6020B
	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.6	ug/L	EPA 6020B
SLE0204-CCVC	Chromium-52	50.000	49.0	98.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.7	ug/L	EPA 6020B
	Lead-208	50.000	51.2	102	ug/L	EPA 6020B
	Silver-107	50.000	48.1	96.2	ug/L	EPA 6020B
SLE0204-CCVD	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.8	ug/L	EPA 6020B
	Lead-208	50.000	53.3	107	ug/L	EPA 6020B
	Silver-107	50.000	46.0	92.1	ug/L	EPA 6020B
SLE0204-CCVE	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.3	ug/L	EPA 6020B
	Lead-208	50.000	54.9	110	ug/L	EPA 6020B
	Silver-107	50.000	46.3	92.6	ug/L	EPA 6020B
SLE0204-CCVF	Chromium-52	50.000	48.7	97.4	ug/L	EPA 6020B
	Chromium-53	50.000	47.7	95.4	ug/L	EPA 6020B
	Lead-208	50.000	55.3	111	ug/L	EPA 6020B
	Silver-107	50.000	45.7	91.5	ug/L	EPA 6020B
SLE0204-CCVG	Chromium-52	50.000	49.5	99.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.5	ug/L	EPA 6020B
	Lead-208	50.000	55.0	110	ug/L	EPA 6020B
	Silver-107	50.000	46.7	93.3	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCVH	Chromium-52	50.000	49.5	99.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.7	ug/L	EPA 6020B
	Lead-208	50.000	55.5	111	ug/L	EPA 6020B
	Silver-107	50.000	46.7	93.4	ug/L	EPA 6020B
SLE0204-CCVI	Chromium-52	50.000	50.2	100	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.6	ug/L	EPA 6020B
	Lead-208	50.000	54.3	109	ug/L	EPA 6020B
	Silver-107	50.000	46.8	93.5	ug/L	EPA 6020B
SLE0204-CCVJ	Chromium-52	50.000	49.8	99.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.5	ug/L	EPA 6020B
	Lead-208	50.000	55.8	112	ug/L	EPA 6020B
	Silver-107	50.000	45.7	91.4	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-ICV1	Chromium-52	50.000	51.3	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.2	102	ug/L	EPA 6020B
	Lead-208	50.000	51.4	103	ug/L	EPA 6020B
	Silver-107	50.000	51.0	102	ug/L	EPA 6020B
SLE0209-CCV1	Chromium-52	50.000	49.3	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.7	97.4	ug/L	EPA 6020B
	Lead-208	50.000	49.4	98.9	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLE0209-CCV2	Chromium-52	50.000	48.9	97.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.8	ug/L	EPA 6020B
	Lead-208	50.000	48.9	97.8	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.9	ug/L	EPA 6020B
SLE0209-CCV3	Chromium-52	50.000	48.7	97.4	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.0	ug/L	EPA 6020B
	Lead-208	50.000	48.6	97.3	ug/L	EPA 6020B
	Silver-107	50.000	51.2	102	ug/L	EPA 6020B
SLE0209-CCV4	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.4	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.7	ug/L	EPA 6020B
	Silver-107	50.000	50.2	100	ug/L	EPA 6020B
SLE0209-CCV5	Lead-208	50.000	50.9	102	ug/L	EPA 6020B
SLE0209-CCV6	Lead-208	50.000	50.2	100	ug/L	EPA 6020B
SLE0209-CCV7	Chromium-52	50.000	46.9	93.7	ug/L	EPA 6020B
	Chromium-53	50.000	47.4	94.9	ug/L	EPA 6020B
	Lead-208	50.000	49.0	98.1	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.5	ug/L	EPA 6020B
SLE0209-CCV8	Chromium-52	50.000	48.0	96.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.7	97.5	ug/L	EPA 6020B
	Lead-208	50.000	49.5	99.0	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B
SLE0209-CCVA	Chromium-52	50.000	47.9	95.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.6	ug/L	EPA 6020B
	Lead-208	50.000	49.0	98.0	ug/L	EPA 6020B
	Silver-107	50.000	50.3	101	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVB	Chromium-52	50.000	47.8	95.6	ug/L	EPA 6020B
	Chromium-53	50.000	47.8	95.6	ug/L	EPA 6020B
	Lead-208	50.000	49.0	97.9	ug/L	EPA 6020B
	Silver-107	50.000	48.6	97.2	ug/L	EPA 6020B
SLE0209-CCVC	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.7	ug/L	EPA 6020B
	Lead-208	50.000	48.5	96.9	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.4	ug/L	EPA 6020B
SLE0209-CCVD	Chromium-52	50.000	47.5	95.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	96.0	ug/L	EPA 6020B
	Lead-208	50.000	49.1	98.2	ug/L	EPA 6020B
	Silver-107	50.000	50.4	101	ug/L	EPA 6020B
SLE0209-CCVE	Chromium-52	50.000	48.6	97.2	ug/L	EPA 6020B
	Chromium-53	50.000	48.2	96.3	ug/L	EPA 6020B
	Lead-208	50.000	49.2	98.4	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLE0209-CCVF	Chromium-52	50.000	48.5	97.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.5	97.0	ug/L	EPA 6020B
	Lead-208	50.000	49.2	98.4	ug/L	EPA 6020B
	Silver-107	50.000	50.3	101	ug/L	EPA 6020B
SLE0209-CCVG	Chromium-52	50.000	48.0	96.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.3	ug/L	EPA 6020B
	Lead-208	50.000	49.5	98.9	ug/L	EPA 6020B
	Silver-107	50.000	48.9	97.8	ug/L	EPA 6020B
SLE0209-CCVH	Chromium-52	50.000	48.0	95.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.9	95.8	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	49.5	99.1	ug/L	EPA 6020B
SLE0209-CCVI	Chromium-52	50.000	48.5	97.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.1	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.4	ug/L	EPA 6020B
SLE0209-CCVJ	Chromium-52	50.000	48.2	96.4	ug/L	EPA 6020B
	Chromium-53	50.000	48.5	96.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVJ	Lead-208	50.000	51.3	103	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.3	ug/L	EPA 6020B
SLE0209-CCVK	Chromium-52	50.000	47.3	94.7	ug/L	EPA 6020B
	Chromium-53	50.000	47.1	94.3	ug/L	EPA 6020B
	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
	Silver-107	50.000	47.2	94.4	ug/L	EPA 6020B
SLE0209-CCVL	Chromium-52	50.000	46.5	92.9	ug/L	EPA 6020B
	Chromium-53	50.000	46.7	93.3	ug/L	EPA 6020B
	Lead-208	50.000	53.3	107	ug/L	EPA 6020B
	Silver-107	50.000	47.2	94.4	ug/L	EPA 6020B
SLE0209-CCVM	Chromium-52	50.000	46.3	92.7	ug/L	EPA 6020B
	Chromium-53	50.000	46.3	92.5	ug/L	EPA 6020B
	Lead-208	50.000	50.3	101	ug/L	EPA 6020B
	Silver-107	50.000	48.4	96.7	ug/L	EPA 6020B
SLE0209-CCVN	Chromium-52	50.000	43.3	86.6	ug/L	EPA 6020B
	Chromium-53	50.000	42.9	85.8	ug/L	EPA 6020B
	Lead-208	50.000	51.6	103	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B
SLE0209-CCVO	Chromium-52	50.000	43.1	86.1	ug/L	EPA 6020B
	Chromium-53	50.000	42.5	85.1	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLE0209-CCVP	Chromium-52	50.000	43.1	86.3	ug/L	EPA 6020B
	Chromium-53	50.000	42.5	85.1	ug/L	EPA 6020B
	Lead-208	50.000	55.5	111	ug/L	EPA 6020B
	Silver-107	50.000	48.3	96.5	ug/L	EPA 6020B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/09/23 15:55

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-IBL1	Chromium-52	0.00200	0.26	0.500	ug/L	
SLE0163-IBL1	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0163-IBL1	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-IBL1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0163-ICB1	Chromium-52	-0.0120	0.26	0.500	ug/L	
SLE0163-ICB1	Chromium-53	-0.0200	0.239	0.500	ug/L	
SLE0163-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0163-ICB1	Silver-107	0.00	0.022	0.200	ug/L	
SLE0163-CCB1	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0163-CCB1	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLE0163-CCB1	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-CCB1	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0163-IBL2	Chromium-52	-0.0300	0.26	0.500	ug/L	
SLE0163-IBL2	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0163-IBL2	Lead-208	0.00700	0.0513	0.100	ug/L	
SLE0163-IBL2	Silver-107	0.0110	0.022	0.200	ug/L	
SLE0163-IBL3	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLE0163-IBL3	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0163-IBL3	Lead-208	0.00500	0.0513	0.100	ug/L	
SLE0163-IBL3	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0163-CCB2	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLE0163-CCB2	Chromium-53	-0.0290	0.239	0.500	ug/L	
SLE0163-CCB2	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0163-CCB2	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0163-IBL4	Chromium-52	0.139	0.26	0.500	ug/L	
SLE0163-IBL4	Chromium-53	-0.0230	0.239	0.500	ug/L	
SLE0163-IBL4	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0163-IBL4	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0163-IBL5	Chromium-52	-0.0380	0.26	0.500	ug/L	
SLE0163-IBL5	Chromium-53	-0.0340	0.239	0.500	ug/L	
SLE0163-IBL5	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0163-IBL5	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0163-CCB3	Chromium-52	-0.0300	0.26	0.500	ug/L	
SLE0163-CCB3	Chromium-53	-0.0480	0.239	0.500	ug/L	
SLE0163-CCB3	Lead-208	0.00400	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/09/23 18:47

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-CCB3	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0163-CCB4	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0163-CCB4	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0163-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0163-CCB4	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0163-IBL6	Chromium-52	0.186	0.26	0.500	ug/L	
SLE0163-IBL6	Chromium-53	0.0140	0.239	0.500	ug/L	
SLE0163-IBL6	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0163-IBL6	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0163-CCB5	Chromium-52	-0.0110	0.26	0.500	ug/L	
SLE0163-CCB5	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0163-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0163-CCB5	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0163-IBL7	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0163-IBL7	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLE0163-IBL7	Lead-208	0.00500	0.0513	0.100	ug/L	
SLE0163-IBL7	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0163-CCB6	Chromium-52	0.00700	0.26	0.500	ug/L	
SLE0163-CCB6	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLE0163-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0163-CCB6	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0163-CCB7	Chromium-52	0.00900	0.26	0.500	ug/L	
SLE0163-CCB7	Chromium-53	0.00700	0.239	0.500	ug/L	
SLE0163-CCB7	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-IBL8	Chromium-52	0.0840	0.26	0.500	ug/L	
SLE0163-IBL8	Chromium-53	0.0180	0.239	0.500	ug/L	
SLE0163-IBL8	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0163-CCB8	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0163-CCB8	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0163-CCB8	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-IBL9	Chromium-52	0.0680	0.26	0.500	ug/L	
SLE0163-IBL9	Chromium-53	0.0370	0.239	0.500	ug/L	
SLE0163-IBL9	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-CCB9	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0163-CCB9	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0163-CCB9	Lead-208	0.00200	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/10/23 00:11

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-IBLA	Chromium-52	0.00500	0.26	0.500	ug/L	
SLE0163-IBLA	Chromium-53	0.0140	0.239	0.500	ug/L	
SLE0163-IBLA	Lead-208	0.0190	0.0513	0.100	ug/L	
SLE0163-CCBA	Chromium-52	0.0260	0.26	0.500	ug/L	
SLE0163-CCBA	Chromium-53	0.0110	0.239	0.500	ug/L	
SLE0163-CCBA	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0163-IBLB	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0163-IBLB	Chromium-53	0.00	0.239	0.500	ug/L	
SLE0163-IBLB	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0163-CCBB	Chromium-52	0.0720	0.26	0.500	ug/L	
SLE0163-CCBB	Chromium-53	0.0430	0.239	0.500	ug/L	
SLE0163-CCBB	Lead-208	0.0710	0.0513	0.100	ug/L	
SLE0163-IBLC	Chromium-52	0.0480	0.26	0.500	ug/L	
SLE0163-IBLC	Chromium-53	0.0230	0.239	0.500	ug/L	
SLE0163-IBLC	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0163-IBLD	Chromium-52	0.106	0.26	0.500	ug/L	
SLE0163-IBLD	Chromium-53	0.0450	0.239	0.500	ug/L	
SLE0163-IBLD	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0163-CCBC	Chromium-52	-0.0270	0.26	0.500	ug/L	
SLE0163-CCBC	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0163-CCBC	Lead-208	0.00600	0.0513	0.100	ug/L	
SLE0163-IBLE	Chromium-52	0.0210	0.26	0.500	ug/L	
SLE0163-IBLE	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0163-IBLE	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0163-IBLF	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0163-IBLF	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0163-IBLF	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0163-CCBD	Chromium-52	-0.00900	0.26	0.500	ug/L	
SLE0163-CCBD	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0163-CCBD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-IBLG	Chromium-52	0.0120	0.26	0.500	ug/L	
SLE0163-IBLG	Chromium-53	0.0150	0.239	0.500	ug/L	
SLE0163-IBLG	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0163-IBLH	Chromium-52	0.0300	0.26	0.500	ug/L	
SLE0163-IBLH	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0163-IBLH	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/10/23 04:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-CCBE	Chromium-52	0.0280	0.26	0.500	ug/L	
SLE0163-CCBE	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0163-CCBE	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0163-IBLI	Chromium-52	0.0200	0.26	0.500	ug/L	
SLE0163-IBLI	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0163-IBLI	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0163-CCBF	Chromium-52	0.0210	0.26	0.500	ug/L	
SLE0163-CCBF	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0163-CCBF	Lead-208	0.00200	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 16:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBL1	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0204-IBL1	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0204-IBL1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-IBL1	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0204-ICB1	Chromium-52	0.0170	0.26	0.500	ug/L	
SLE0204-ICB1	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0204-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-ICB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-CCB1	Chromium-52	0.00600	0.26	0.500	ug/L	
SLE0204-CCB1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0204-CCB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-CCB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBL2	Chromium-52	0.0130	0.26	0.500	ug/L	
SLE0204-IBL2	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0204-IBL2	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0204-IBL2	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0204-CCB2	Chromium-52	0.0230	0.26	0.500	ug/L	
SLE0204-CCB2	Chromium-53	0.0280	0.239	0.500	ug/L	
SLE0204-CCB2	Lead-208	0.0300	0.0513	0.100	ug/L	
SLE0204-CCB2	Silver-107	0.0300	0.022	0.200	ug/L	
SLE0204-CCB3	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0204-CCB3	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCB3	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0204-CCB3	Silver-107	0.00600	0.022	0.200	ug/L	
SLE0204-IBL3	Chromium-52	-0.0220	0.26	0.500	ug/L	
SLE0204-IBL3	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLE0204-IBL3	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0204-IBL3	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCB4	Chromium-52	-0.0320	0.26	0.500	ug/L	
SLE0204-CCB4	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0204-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB4	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBL4	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLE0204-IBL4	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0204-IBL4	Lead-208	0.00400	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 19:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBL4	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-IBL5	Chromium-52	0.0360	0.26	0.500	ug/L	
SLE0204-IBL5	Chromium-53	0.0240	0.239	0.500	ug/L	
SLE0204-IBL5	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0204-IBL5	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCB5	Chromium-52	-0.0410	0.26	0.500	ug/L	
SLE0204-CCB5	Chromium-53	-0.0180	0.239	0.500	ug/L	
SLE0204-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB5	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-CCB6	Chromium-52	-0.0280	0.26	0.500	ug/L	
SLE0204-CCB6	Chromium-53	-0.0190	0.239	0.500	ug/L	
SLE0204-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB6	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0204-IBL6	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0204-IBL6	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0204-IBL6	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBL6	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-CCB7	Chromium-52	-0.00900	0.26	0.500	ug/L	
SLE0204-CCB7	Chromium-53	0.0110	0.239	0.500	ug/L	
SLE0204-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB7	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-IBL7	Chromium-52	-0.0510	0.26	0.500	ug/L	
SLE0204-IBL7	Chromium-53	-0.0130	0.239	0.500	ug/L	
SLE0204-IBL7	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBL7	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-CCB8	Chromium-52	-0.0260	0.26	0.500	ug/L	
SLE0204-CCB8	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0204-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-CCB8	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBL8	Chromium-52	0.0300	0.26	0.500	ug/L	
SLE0204-IBL8	Chromium-53	0.0250	0.239	0.500	ug/L	
SLE0204-IBL8	Lead-208	0.275	0.0513	0.100	ug/L	
SLE0204-IBL8	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0204-CCB9	Chromium-52	-0.0280	0.26	0.500	ug/L	
SLE0204-CCB9	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0204-CCB9	Lead-208	0.00700	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 23:28

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB9	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-IBL9	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0204-IBL9	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0204-IBL9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-IBL9	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBA	Chromium-52	-0.0330	0.26	0.500	ug/L	
SLE0204-CCBA	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCBA	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0204-CCBA	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBLA	Chromium-52	-0.0310	0.26	0.500	ug/L	
SLE0204-IBLA	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0204-IBLA	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0204-IBLA	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBB	Chromium-52	-0.0160	0.26	0.500	ug/L	
SLE0204-CCBB	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLE0204-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCBB	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-CCBC	Chromium-52	0.0180	0.26	0.500	ug/L	
SLE0204-CCBC	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0204-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCBC	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-IBLB	Chromium-52	-0.0440	0.26	0.500	ug/L	
SLE0204-IBLB	Chromium-53	0.00800	0.239	0.500	ug/L	
SLE0204-IBLB	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBLB	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBD	Chromium-52	-0.0360	0.26	0.500	ug/L	
SLE0204-CCBD	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCBD	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBD	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLC	Chromium-52	0.0230	0.26	0.500	ug/L	
SLE0204-IBLC	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0204-IBLC	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0204-IBLC	Silver-107	0.00	0.022	0.200	ug/L	
SLE0204-IBLD	Chromium-52	-0.0450	0.26	0.500	ug/L	
SLE0204-IBLD	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0204-IBLD	Lead-208	-0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 03:20

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBLD	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBE	Chromium-52	-0.0500	0.26	0.500	ug/L	
SLE0204-CCBE	Chromium-53	-0.0140	0.239	0.500	ug/L	
SLE0204-CCBE	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0204-CCBE	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBLE	Chromium-52	-0.0460	0.26	0.500	ug/L	
SLE0204-IBLE	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0204-IBLE	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLE	Silver-107	0.00	0.022	0.200	ug/L	
SLE0204-IBLF	Chromium-52	-0.0490	0.26	0.500	ug/L	
SLE0204-IBLF	Chromium-53	-0.00100	0.239	0.500	ug/L	
SLE0204-IBLF	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLF	Silver-107	0.00	0.022	0.200	ug/L	
SLE0204-CCBF	Chromium-52	-0.0610	0.26	0.500	ug/L	
SLE0204-CCBF	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0204-CCBF	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBF	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-CCBG	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0204-CCBG	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0204-CCBG	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBG	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLG	Chromium-52	0.0210	0.26	0.500	ug/L	
SLE0204-IBLG	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0204-IBLG	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBLG	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-CCBH	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLE0204-CCBH	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCBH	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBH	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLH	Chromium-52	0.0130	0.26	0.500	ug/L	
SLE0204-IBLH	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0204-IBLH	Lead-208	-0.00400	0.0513	0.100	ug/L	
SLE0204-IBLH	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBI	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0204-CCBI	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0204-CCBI	Lead-208	-0.00300	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 06:42

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCBI	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLI	Chromium-52	0.0160	0.26	0.500	ug/L	
SLE0204-IBLI	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0204-IBLI	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLI	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-IBLJ	Chromium-52	0.00900	0.26	0.500	ug/L	
SLE0204-IBLJ	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0204-IBLJ	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLJ	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBJ	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0204-CCBJ	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0204-CCBJ	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBJ	Silver-107	0.00100	0.022	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 14:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBL1	Chromium-52	0.0410	0.26	0.500	ug/L	
SLE0209-IBL1	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0209-IBL1	Lead-208	0.0180	0.0513	0.100	ug/L	
SLE0209-IBL1	Silver-107	0.0350	0.022	0.200	ug/L	
SLE0209-ICB1	Chromium-52	0.0310	0.26	0.500	ug/L	
SLE0209-ICB1	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0209-ICB1	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-ICB1	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0209-CCB1	Chromium-52	0.00200	0.26	0.500	ug/L	
SLE0209-CCB1	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0209-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCB1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0209-IBL2	Chromium-52	0.0290	0.26	0.500	ug/L	
SLE0209-IBL2	Chromium-53	0.0330	0.239	0.500	ug/L	
SLE0209-IBL2	Lead-208	0.00700	0.0513	0.100	ug/L	
SLE0209-IBL2	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0209-IBL3	Chromium-52	0.0330	0.26	0.500	ug/L	
SLE0209-IBL3	Chromium-53	0.0220	0.239	0.500	ug/L	
SLE0209-IBL3	Lead-208	0.00600	0.0513	0.100	ug/L	
SLE0209-IBL3	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0209-CCB2	Chromium-52	0.0150	0.26	0.500	ug/L	
SLE0209-CCB2	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0209-CCB2	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0209-CCB2	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0209-CCB3	Chromium-52	-0.0180	0.26	0.500	ug/L	
SLE0209-CCB3	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0209-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCB3	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBL4	Chromium-52	0.140	0.26	0.500	ug/L	
SLE0209-IBL4	Chromium-53	0.0650	0.239	0.500	ug/L	
SLE0209-IBL4	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0209-IBL4	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBL5	Chromium-52	0.100	0.26	0.500	ug/L	
SLE0209-IBL5	Chromium-53	0.00700	0.239	0.500	ug/L	
SLE0209-IBL5	Lead-208	0.00300	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 17:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBL5	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCB4	Chromium-52	0.00300	0.26	0.500	ug/L	
SLE0209-CCB4	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0209-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCB4	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-IBL6	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBL7	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBL8	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCB6	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBL9	Chromium-52	0.0410	0.26	0.500	ug/L	
SLE0209-IBL9	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0209-IBL9	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBL9	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-IBLA	Chromium-52	0.0520	0.26	0.500	ug/L	
SLE0209-IBLA	Chromium-53	0.125	0.239	0.500	ug/L	
SLE0209-IBLA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLA	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCB7	Chromium-52	0.0560	0.26	0.500	ug/L	
SLE0209-CCB7	Chromium-53	0.0220	0.239	0.500	ug/L	
SLE0209-CCB7	Lead-208	0.0110	0.0513	0.100	ug/L	
SLE0209-CCB7	Silver-107	0.0100	0.022	0.200	ug/L	
SLE0209-CCB8	Chromium-52	-0.0190	0.26	0.500	ug/L	
SLE0209-CCB8	Chromium-53	-0.0160	0.239	0.500	ug/L	
SLE0209-CCB8	Lead-208	0.0100	0.0513	0.100	ug/L	
SLE0209-CCB8	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0209-CCBA	Chromium-52	0.00900	0.26	0.500	ug/L	
SLE0209-CCBA	Chromium-53	0.0230	0.239	0.500	ug/L	
SLE0209-CCBA	Lead-208	0.0170	0.0513	0.100	ug/L	
SLE0209-CCBA	Silver-107	0.0220	0.022	0.200	ug/L	
SLE0209-IBLC	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0209-IBLC	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0209-IBLC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLC	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLD	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0209-IBLD	Chromium-53	-0.00800	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 20:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0209-IBLD	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-CCBB	Chromium-52	0.00	0.26	0.500	ug/L	
SLE0209-CCBB	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLE0209-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBB	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLE	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLE0209-IBLE	Chromium-53	-0.0140	0.239	0.500	ug/L	
SLE0209-IBLE	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0209-IBLE	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBLF	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLE0209-IBLF	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLE0209-IBLF	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLF	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBC	Chromium-52	-0.0270	0.26	0.500	ug/L	
SLE0209-CCBC	Chromium-53	-0.0200	0.239	0.500	ug/L	
SLE0209-CCBC	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0209-CCBC	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-CCBD	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0209-CCBD	Chromium-53	0.00700	0.239	0.500	ug/L	
SLE0209-CCBD	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBD	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLG	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0209-IBLG	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0209-IBLG	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0209-IBLG	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBE	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0209-CCBE	Chromium-53	0.00	0.239	0.500	ug/L	
SLE0209-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBE	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLH	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0209-IBLH	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0209-IBLH	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0209-IBLH	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBF	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0209-CCBF	Chromium-53	0.00	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 00:09

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBF	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLI	Chromium-52	0.0220	0.26	0.500	ug/L	
SLE0209-IBLI	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLE0209-IBLI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLI	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBG	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0209-CCBG	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0209-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBG	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLJ	Chromium-52	0.00300	0.26	0.500	ug/L	
SLE0209-IBLJ	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0209-IBLJ	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0209-IBLJ	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBH	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0209-CCBH	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0209-CCBH	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBH	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLK	Chromium-52	0.00700	0.26	0.500	ug/L	
SLE0209-IBLK	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0209-IBLK	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBLK	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBLL	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0209-IBLL	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0209-IBLL	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLL	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBI	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLE0209-CCBI	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0209-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBI	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBJ	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLE0209-CCBJ	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0209-CCBJ	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBJ	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLM	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLE0209-IBLM	Chromium-53	-0.00600	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 03:46

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLM	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLM	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLN	Chromium-52	0.0370	0.26	0.500	ug/L	
SLE0209-IBLN	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0209-IBLN	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLN	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-CCBK	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLE0209-CCBK	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0209-CCBK	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBK	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLO	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0209-IBLO	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0209-IBLO	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLO	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBL	Chromium-52	-0.0270	0.26	0.500	ug/L	
SLE0209-CCBL	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0209-CCBL	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBL	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-IBLP	Chromium-52	0.0420	0.26	0.500	ug/L	
SLE0209-IBLP	Chromium-53	0.566	0.239	0.500	ug/L	
SLE0209-IBLP	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLP	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBM	Chromium-52	-0.0220	0.26	0.500	ug/L	
SLE0209-CCBM	Chromium-53	0.321	0.239	0.500	ug/L	
SLE0209-CCBM	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBM	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLQ	Chromium-52	-0.0420	0.26	0.500	ug/L	
SLE0209-IBLQ	Chromium-53	0.192	0.239	0.500	ug/L	
SLE0209-IBLQ	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0209-IBLQ	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBLR	Chromium-52	0.0530	0.26	0.500	ug/L	
SLE0209-IBLR	Chromium-53	0.841	0.239	0.500	ug/L	
SLE0209-IBLR	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0209-IBLR	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-CCBN	Chromium-52	-0.0620	0.26	0.500	ug/L	
SLE0209-CCBN	Chromium-53	0.364	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 07:11

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBN	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBN	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-CCBO	Chromium-52	-0.00500	0.26	0.500	ug/L	
SLE0209-CCBO	Chromium-53	-0.0460	0.239	0.500	ug/L	
SLE0209-CCBO	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBO	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-IBLS	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0209-IBLS	Chromium-53	-0.157	0.239	0.500	ug/L	
SLE0209-IBLS	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0209-IBLS	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-CCBP	Chromium-52	-0.0330	0.26	0.500	ug/L	
SLE0209-CCBP	Chromium-53	-0.183	0.239	0.500	ug/L	
SLE0209-CCBP	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-CCBP	Silver-107	0.00	0.022	0.200	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0163	Instrument:	ICPMS1
		Calibration:	GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0163-CAL1	XDT_m1230509a-001	NA	05/09/23 15:21
CAL 1 - LOW CHECK	SLE0163-CAL2	XDT_m1230509a-002	NA	05/09/23 15:26
CAL 2	SLE0163-CAL3	XDT_m1230509a-003	NA	05/09/23 15:30
CAL 3	SLE0163-CAL4	XDT_m1230509a-004	NA	05/09/23 15:36
CAL 4	SLE0163-CAL5	XDT_m1230509a-005	NA	05/09/23 15:41
CAL 5	SLE0163-CAL6	XDT_m1230509a-006	NA	05/09/23 15:48
RINSE	SLE0163-IBL1	XDT_m1230509a-007	NA	05/09/23 15:55
Initial Cal Check	SLE0163-ICV1	XDT_m1230509a-009	NA	05/09/23 16:02
Initial Cal Blank	SLE0163-ICB1	XDT_m1230509a-011	NA	05/09/23 16:14
Calibration Check	SLE0163-CCV1	XDT_m1230509a-012	NA	05/09/23 16:20
Calibration Blank	SLE0163-CCB1	XDT_m1230509a-014	NA	05/09/23 16:32
Instrument RL Check	SLE0163-CRL1	XDT_m1230509a-015	NA	05/09/23 16:39
Interference Check B	SLE0163-IFB1	XDT_m1230509a-017	NA	05/09/23 16:49
Interference Check A	SLE0163-IFA1	XDT_m1230509a-018	NA	05/09/23 16:54
LR300	SLE0163-HCV2	XDT_m1230509a-020	NA	05/09/23 17:04
LR200	SLE0163-HCV1	XDT_m1230509a-021	NA	05/09/23 17:11
Instrument Blank	SLE0163-IBL2	XDT_m1230509a-022	NA	05/09/23 17:16
Instrument Blank	SLE0163-IBL3	XDT_m1230509a-023	NA	05/09/23 17:23
Calibration Check	SLE0163-CCV2	XDT_m1230509a-024	NA	05/09/23 17:29
Calibration Blank	SLE0163-CCB2	XDT_m1230509a-025	NA	05/09/23 17:36
ZZZZZ	BLE0256-BLK1	XDT_m1230509a-026	Water	05/09/23 17:44
ZZZZZ	BLE0256-BS1	XDT_m1230509a-027	Water	05/09/23 17:49
Instrument Blank	SLE0163-IBL4	XDT_m1230509a-033	NA	05/09/23 18:24
Instrument Blank	SLE0163-IBL5	XDT_m1230509a-035	NA	05/09/23 18:35
Calibration Check	SLE0163-CCV3	XDT_m1230509a-036	NA	05/09/23 18:40
Calibration Blank	SLE0163-CCB3	XDT_m1230509a-037	NA	05/09/23 18:47
Calibration Check	SLE0163-CCV4	XDT_m1230509a-039	NA	05/09/23 18:59
Calibration Blank	SLE0163-CCB4	XDT_m1230509a-040	NA	05/09/23 19:06
ZZZZZ	23D0297-08	XDT_m1230509a-046	Solid	05/09/23 19:39

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0420-07	XDT_m1230509a-047	Solid	05/09/23 19:44
Instrument Blank	SLE0163-IBL6	XDT_m1230509a-050	NA	05/09/23 19:57
Calibration Check	SLE0163-CCV5	XDT_m1230509a-051	NA	05/09/23 20:01
Calibration Blank	SLE0163-CCB5	XDT_m1230509a-052	NA	05/09/23 20:09
ZZZZZ	23C0715-02	XDT_m1230509a-053	Water	05/09/23 20:15
ZZZZZ	23C0715-04	XDT_m1230509a-054	Water	05/09/23 20:23
ZZZZZ	23C0690-08	XDT_m1230509a-055	Water	05/09/23 20:27
ZZZZZ	23C0690-10	XDT_m1230509a-056	Water	05/09/23 20:32
ZZZZZ	23C0690-04	XDT_m1230509a-057	Water	05/09/23 20:37
Instrument Blank	SLE0163-IBL7	XDT_m1230509a-062	NA	05/09/23 21:00
Calibration Check	SLE0163-CCV6	XDT_m1230509a-063	NA	05/09/23 21:05
Calibration Blank	SLE0163-CCB6	XDT_m1230509a-064	NA	05/09/23 21:12
Calibration Check	SLE0163-CCV7	XDT_m1230509a-067	NA	05/09/23 21:32
Calibration Blank	SLE0163-CCB7	XDT_m1230509a-068	NA	05/09/23 21:39
Blank	BLD0687-BLK1	XDT_m1230509a-069	Solid	05/09/23 21:43
LCS	BLD0687-BS1	XDT_m1230509a-070	Solid	05/09/23 21:48
Instrument Blank	SLE0163-IBL8	XDT_m1230509a-078	NA	05/09/23 22:22
Calibration Check	SLE0163-CCV8	XDT_m1230509a-079	NA	05/09/23 22:26
Calibration Blank	SLE0163-CCB8	XDT_m1230509a-080	NA	05/09/23 22:33
Instrument Blank	SLE0163-IBL9	XDT_m1230509a-090	NA	05/09/23 23:17
Calibration Check	SLE0163-CCV9	XDT_m1230509a-091	NA	05/09/23 23:21
Calibration Blank	SLE0163-CCB9	XDT_m1230509a-092	NA	05/09/23 23:28
Instrument Blank	SLE0163-IBLA	XDT_m1230509a-102	NA	05/10/23 00:11
Calibration Check	SLE0163-CCVA	XDT_m1230509a-103	NA	05/10/23 00:15
Calibration Blank	SLE0163-CCBA	XDT_m1230509a-104	NA	05/10/23 00:23
Instrument Blank	SLE0163-IBLB	XDT_m1230509a-114	NA	05/10/23 01:06
Calibration Check	SLE0163-CCVB	XDT_m1230509a-115	NA	05/10/23 01:10
Calibration Blank	SLE0163-CCBB	XDT_m1230509a-116	NA	05/10/23 01:17
Instrument Blank	SLE0163-IBLC	XDT_m1230509a-122	NA	05/10/23 01:43

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0163-IBLD	XDT_m1230509a-126	NA	05/10/23 02:01
Calibration Check	SLE0163-CCVC	XDT_m1230509a-127	NA	05/10/23 02:05
Calibration Blank	SLE0163-CCBC	XDT_m1230509a-128	NA	05/10/23 02:12
Instrument Blank	SLE0163-IBLE	XDT_m1230509a-133	NA	05/10/23 02:36
Instrument Blank	SLE0163-IBLF	XDT_m1230509a-138	NA	05/10/23 02:59
Calibration Check	SLE0163-CCVD	XDT_m1230509a-139	NA	05/10/23 03:04
Calibration Blank	SLE0163-CCBD	XDT_m1230509a-140	NA	05/10/23 03:11
Instrument Blank	SLE0163-IBLG	XDT_m1230509a-145	NA	05/10/23 03:34
Instrument Blank	SLE0163-IBLH	XDT_m1230509a-150	NA	05/10/23 03:55
Calibration Check	SLE0163-CCVE	XDT_m1230509a-151	NA	05/10/23 04:00
Calibration Blank	SLE0163-CCBE	XDT_m1230509a-152	NA	05/10/23 04:07
ZZZZZ	23D0477-05	XDT_m1230509a-156	Water	05/10/23 04:24
ZZZZZ	23D0477-17	XDT_m1230509a-157	Water	05/10/23 04:28
ZZZZZ	23D0477-19	XDT_m1230509a-158	Water	05/10/23 04:32
ZZZZZ	BLE0077-DUP1	XDT_m1230509a-159	Water	05/10/23 04:37
ZZZZZ	BLE0077-MS1	XDT_m1230509a-160	Water	05/10/23 04:41
ZZZZZ	BLE0077-MSD1	XDT_m1230509a-161	Water	05/10/23 04:47
Instrument Blank	SLE0163-IBLI	XDT_m1230509a-162	NA	05/10/23 04:51
Calibration Check	SLE0163-CCVF	XDT_m1230509a-163	NA	05/10/23 04:56
Calibration Blank	SLE0163-CCBF	XDT_m1230509a-164	NA	05/10/23 05:03

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0204-CAL1	XDT_m1230510A-008	NA	05/10/23 15:47
CAL 1 - LOW CHECK	SLE0204-CAL2	XDT_m1230510A-009	NA	05/10/23 15:51
CAL 2	SLE0204-CAL3	XDT_m1230510A-010	NA	05/10/23 15:56
CAL 3	SLE0204-CAL4	XDT_m1230510A-011	NA	05/10/23 16:01
CAL 4	SLE0204-CAL5	XDT_m1230510A-012	NA	05/10/23 16:05
CAL 5	SLE0204-CAL6	XDT_m1230510A-013	NA	05/10/23 16:12
RINSE	SLE0204-IBL1	XDT_m1230510A-014	NA	05/10/23 16:19
Initial Cal Check	SLE0204-ICV1	XDT_m1230510A-016	NA	05/10/23 16:25
Initial Cal Blank	SLE0204-ICB1	XDT_m1230510A-017	NA	05/10/23 16:32
Calibration Check	SLE0204-CCV1	XDT_m1230510A-018	NA	05/10/23 16:37
Calibration Blank	SLE0204-CCB1	XDT_m1230510A-019	NA	05/10/23 16:44
Instrument RL Check	SLE0204-CRL1	XDT_m1230510A-020	NA	05/10/23 16:49
Interference Check A	SLE0204-IFA1	XDT_m1230510A-021	NA	05/10/23 16:56
Interference Check B	SLE0204-IFB1	XDT_m1230510A-022	NA	05/10/23 17:00
LR200	SLE0204-HCV1	XDT_m1230510A-023	NA	05/10/23 17:06
LR300	SLE0204-HCV2	XDT_m1230510A-024	NA	05/10/23 17:11
Instrument Blank	SLE0204-IBL2	XDT_m1230510A-025	NA	05/10/23 17:18
Calibration Check	SLE0204-CCV2	XDT_m1230510A-026	NA	05/10/23 17:24
Calibration Blank	SLE0204-CCB2	XDT_m1230510A-027	NA	05/10/23 17:32
Calibration Check	SLE0204-CCV3	XDT_m1230510A-029	NA	05/10/23 17:41
Calibration Blank	SLE0204-CCB3	XDT_m1230510A-030	NA	05/10/23 17:49
Blank	BLD0687-BLK2	XDT_m1230510A-031	Solid	05/10/23 17:54
LCS	BLD0687-BS2	XDT_m1230510A-033	Solid	05/10/23 18:05
ZZZZZ	BLE0298-BLK1	XDT_m1230510A-034	Water	05/10/23 18:11
ZZZZZ	BLE0298-BS1	XDT_m1230510A-035	Water	05/10/23 18:15
ZZZZZ	23D0297-01	XDT_m1230510A-037	Solid	05/10/23 18:27
ZZZZZ	23D0297-01	XDT_m1230510A-037	Solid	05/10/23 18:27
ZZZZZ	BLD0728-DUP2	XDT_m1230510A-038	Solid	05/10/23 18:32
Instrument Blank	SLE0204-IBL3	XDT_m1230510A-040	NA	05/10/23 18:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0204-CCV4	XDT_m1230510A-041	NA	05/10/23 18:45
Calibration Blank	SLE0204-CCB4	XDT_m1230510A-042	NA	05/10/23 18:53
ZZZZZ	BLE0143-BLK1	XDT_m1230510A-045	Solid	05/10/23 19:07
ZZZZZ	BLE0143-BS1	XDT_m1230510A-047	Solid	05/10/23 19:19
ZZZZZ	BLD0728-MS2	XDT_m1230510A-048	Solid	05/10/23 19:23
Instrument Blank	SLE0204-IBL4	XDT_m1230510A-050	NA	05/10/23 19:33
Instrument Blank	SLE0204-IBL5	XDT_m1230510A-052	NA	05/10/23 19:44
Calibration Check	SLE0204-CCV5	XDT_m1230510A-053	NA	05/10/23 19:48
Calibration Blank	SLE0204-CCB5	XDT_m1230510A-054	NA	05/10/23 19:56
Calibration Check	SLE0204-CCV6	XDT_m1230510A-057	NA	05/10/23 20:30
Calibration Blank	SLE0204-CCB6	XDT_m1230510A-058	NA	05/10/23 20:37
ZZZZZ	BLD0578-BLK1	XDT_m1230510A-059	Solid	05/10/23 20:44
ZZZZZ	BLD0578-BS1	XDT_m1230510A-060	Solid	05/10/23 20:48
ZZZZZ	BLE0072-BLK1	XDT_m1230510A-061	Solid	05/10/23 20:53
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
Instrument Blank	SLE0204-IBL6	XDT_m1230510A-068	NA	05/10/23 21:25
Calibration Check	SLE0204-CCV7	XDT_m1230510A-069	NA	05/10/23 21:29
Calibration Blank	SLE0204-CCB7	XDT_m1230510A-070	NA	05/10/23 21:37
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	BLD0578-DUP1	XDT_m1230510A-076	Solid	05/10/23 22:03
ZZZZZ	BLD0578-MS1	XDT_m1230510A-077	Solid	05/10/23 22:08
ZZZZZ	BLD0578-MSD1	XDT_m1230510A-078	Solid	05/10/23 22:12
ZZZZZ	BLD0578-PS1	XDT_m1230510A-079	Solid	05/10/23 22:16
Instrument Blank	SLE0204-IBL7	XDT_m1230510A-080	NA	05/10/23 22:21
Calibration Check	SLE0204-CCV8	XDT_m1230510A-081	NA	05/10/23 22:25
Calibration Blank	SLE0204-CCB8	XDT_m1230510A-082	NA	05/10/23 22:32
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23D0393-04	XDT_m1230510A-087	Solid	05/10/23 22:54
ZZZZZ	BLE0072-DUP1	XDT_m1230510A-088	Solid	05/10/23 22:59
ZZZZZ	BLE0072-MS1	XDT_m1230510A-089	Solid	05/10/23 23:03
ZZZZZ	BLE0072-MSD1	XDT_m1230510A-090	Solid	05/10/23 23:08
Instrument Blank	SLE0204-IBL8	XDT_m1230510A-092	NA	05/10/23 23:16
Calibration Check	SLE0204-CCV9	XDT_m1230510A-093	NA	05/10/23 23:21
Calibration Blank	SLE0204-CCB9	XDT_m1230510A-094	NA	05/10/23 23:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
Instrument Blank	SLE0204-IBL9	XDT_m1230510A-104	NA	05/11/23 00:12
Calibration Check	SLE0204-CCVA	XDT_m1230510A-105	NA	05/11/23 00:16
Calibration Blank	SLE0204-CCBA	XDT_m1230510A-106	NA	05/11/23 00:24
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
Instrument Blank	SLE0204-IBLA	XDT_m1230510A-116	NA	05/11/23 01:08
Calibration Check	SLE0204-CCVB	XDT_m1230510A-117	NA	05/11/23 01:12
Calibration Blank	SLE0204-CCBB	XDT_m1230510A-118	NA	05/11/23 01:19
Calibration Check	SLE0204-CCVC	XDT_m1230510A-120	NA	05/11/23 01:28
Calibration Blank	SLE0204-CCBC	XDT_m1230510A-121	NA	05/11/23 01:35
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
Instrument Blank	SLE0204-IBLB	XDT_m1230510A-131	NA	05/11/23 02:21
Calibration Check	SLE0204-CCVD	XDT_m1230510A-132	NA	05/11/23 02:26
Calibration Blank	SLE0204-CCBD	XDT_m1230510A-133	NA	05/11/23 02:33
Instrument Blank	SLE0204-IBLC	XDT_m1230510A-138	NA	05/11/23 02:57
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
Instrument Blank	SLE0204-IBLD	XDT_m1230510A-143	NA	05/11/23 03:20
Calibration Check	SLE0204-CCVE	XDT_m1230510A-144	NA	05/11/23 03:24
Calibration Blank	SLE0204-CCBE	XDT_m1230510A-145	NA	05/11/23 03:31
Instrument Blank	SLE0204-IBLE	XDT_m1230510A-150	NA	05/11/23 03:57
Instrument Blank	SLE0204-IBLF	XDT_m1230510A-155	NA	05/11/23 04:21
Calibration Check	SLE0204-CCVF	XDT_m1230510A-156	NA	05/11/23 04:26
Calibration Blank	SLE0204-CCBF	XDT_m1230510A-157	NA	05/11/23 04:33
Calibration Check	SLE0204-CCVG	XDT_m1230510A-159	NA	05/11/23 04:42
Calibration Blank	SLE0204-CCBG	XDT_m1230510A-160	NA	05/11/23 04:49
Instrument Blank	SLE0204-IBLG	XDT_m1230510A-170	NA	05/11/23 05:33
Calibration Check	SLE0204-CCVH	XDT_m1230510A-171	NA	05/11/23 05:38
Calibration Blank	SLE0204-CCBH	XDT_m1230510A-172	NA	05/11/23 05:45
Instrument Blank	SLE0204-IBLH	XDT_m1230510A-182	NA	05/11/23 06:31
Calibration Check	SLE0204-CCVI	XDT_m1230510A-183	NA	05/11/23 06:35
Calibration Blank	SLE0204-CCBI	XDT_m1230510A-184	NA	05/11/23 06:42
Instrument Blank	SLE0204-IBLI	XDT_m1230510A-189	NA	05/11/23 07:05
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	BLE0298-DUP1	XDT_m1230510A-191	Water	05/11/23 07:14
ZZZZZ	BLE0298-MS1	XDT_m1230510A-192	Water	05/11/23 07:19
ZZZZZ	BLE0298-MSD1	XDT_m1230510A-193	Water	05/11/23 07:25
Instrument Blank	SLE0204-IBLJ	XDT_m1230510A-194	NA	05/11/23 07:29
Calibration Check	SLE0204-CCVJ	XDT_m1230510A-195	NA	05/11/23 07:34

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0204	Instrument:	ICPMS1
		Calibration:	GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0204-CCBJ	XDT_m1230510A-196	NA	05/11/23 07:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0209-CAL1	XDT_m1230511-006	NA	05/11/23 13:56
CAL 1 - LOW CHECK	SLE0209-CAL2	XDT_m1230511-007	NA	05/11/23 14:00
CAL 2	SLE0209-CAL3	XDT_m1230511-008	NA	05/11/23 14:05
CAL 3	SLE0209-CAL4	XDT_m1230511-009	NA	05/11/23 14:10
CAL 4	SLE0209-CAL5	XDT_m1230511-010	NA	05/11/23 14:15
CAL 5	SLE0209-CAL6	XDT_m1230511-011	NA	05/11/23 14:21
RINSE	SLE0209-IBL1	XDT_m1230511-012	NA	05/11/23 14:29
Initial Cal Check	SLE0209-ICV1	XDT_m1230511-014	NA	05/11/23 14:34
Initial Cal Blank	SLE0209-ICB1	XDT_m1230511-015	NA	05/11/23 14:42
Calibration Check	SLE0209-CCV1	XDT_m1230511-019	NA	05/11/23 15:06
Calibration Blank	SLE0209-CCB1	XDT_m1230511-020	NA	05/11/23 15:13
Instrument RL Check	SLE0209-CRL1	XDT_m1230511-021	NA	05/11/23 15:18
Interference Check A	SLE0209-IFA1	XDT_m1230511-022	NA	05/11/23 15:23
Interference Check B	SLE0209-IFB1	XDT_m1230511-023	NA	05/11/23 15:28
LR200	SLE0209-HCV1	XDT_m1230511-024	NA	05/11/23 15:32
LR300	SLE0209-HCV2	XDT_m1230511-025	NA	05/11/23 15:37
Instrument Blank	SLE0209-IBL2	XDT_m1230511-026	NA	05/11/23 15:50
Instrument Blank	SLE0209-IBL3	XDT_m1230511-027	NA	05/11/23 15:56
Calibration Check	SLE0209-CCV2	XDT_m1230511-028	NA	05/11/23 16:02
Calibration Blank	SLE0209-CCB2	XDT_m1230511-029	NA	05/11/23 16:09
Calibration Check	SLE0209-CCV3	XDT_m1230511-031	NA	05/11/23 16:19
Calibration Blank	SLE0209-CCB3	XDT_m1230511-032	NA	05/11/23 16:27
ZZZZZ	BLE0072-BS2	XDT_m1230511-033	Solid	05/11/23 16:37
ZZZZZ	BLE0342-BLK1	XDT_m1230511-034	Water	05/11/23 16:42
ZZZZZ	BLE0342-BS1	XDT_m1230511-035	Water	05/11/23 16:46
Instrument Blank	SLE0209-IBL4	XDT_m1230511-040	NA	05/11/23 17:10
Instrument Blank	SLE0209-IBL5	XDT_m1230511-042	NA	05/11/23 17:21
Calibration Check	SLE0209-CCV4	XDT_m1230511-043	NA	05/11/23 17:25
Calibration Blank	SLE0209-CCB4	XDT_m1230511-044	NA	05/11/23 17:32

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0477-04	XDT_m1230511-045	Water	05/11/23 17:42
ZZZZZ	23D0477-08	XDT_m1230511-046	Water	05/11/23 17:43
ZZZZZ	23D0477-10	XDT_m1230511-047	Water	05/11/23 17:44
ZZZZZ	23D0477-12	XDT_m1230511-048	Water	05/11/23 17:46
ZZZZZ	23D0477-18	XDT_m1230511-049	Water	05/11/23 17:47
ZZZZZ	23D0477-20	XDT_m1230511-050	Water	05/11/23 17:48
Instrument Blank	SLE0209-IBL6	XDT_m1230511-054	NA	05/11/23 17:54
Calibration Check	SLE0209-CCV5	XDT_m1230511-055	NA	05/11/23 17:55
Calibration Blank	SLE0209-CCB5	XDT_m1230511-056	NA	05/11/23 17:59
ZZZZZ	23D0477-01	XDT_m1230511-057	Water	05/11/23 18:02
ZZZZZ	23D0477-07	XDT_m1230511-058	Water	05/11/23 18:03
ZZZZZ	23D0477-09	XDT_m1230511-059	Water	05/11/23 18:05
Instrument Blank	SLE0209-IBL7	XDT_m1230511-061	NA	05/11/23 18:08
ZZZZZ	23D0477-02	XDT_m1230511-062	Water	05/11/23 18:09
ZZZZZ	23D0477-03	XDT_m1230511-063	Water	05/11/23 18:10
ZZZZZ	23D0477-06	XDT_m1230511-064	Water	05/11/23 18:12
ZZZZZ	23D0477-11	XDT_m1230511-065	Water	05/11/23 18:13
Instrument Blank	SLE0209-IBL8	XDT_m1230511-066	NA	05/11/23 18:15
Calibration Check	SLE0209-CCV6	XDT_m1230511-067	NA	05/11/23 18:16
Calibration Blank	SLE0209-CCB6	XDT_m1230511-068	NA	05/11/23 18:20
ZZZZZ	23D0477-13	XDT_m1230511-069	Water	05/11/23 18:24
ZZZZZ	23D0477-14	XDT_m1230511-070	Water	05/11/23 18:25
ZZZZZ	23D0477-16	XDT_m1230511-071	Water	05/11/23 18:26
ZZZZZ	23D0477-15	XDT_m1230511-072	Water	05/11/23 18:28
Instrument Blank	SLE0209-IBL9	XDT_m1230511-073	NA	05/11/23 18:29
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	BLE0342-DUP1	XDT_m1230511-075	Water	05/11/23 18:40

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0342-MS1	XDT_m1230511-076	Water	05/11/23 18:45
ZZZZZ	BLE0342-MSD1	XDT_m1230511-077	Water	05/11/23 18:50
Instrument Blank	SLE0209-IBLA	XDT_m1230511-078	NA	05/11/23 18:55
Calibration Check	SLE0209-CCV7	XDT_m1230511-079	NA	05/11/23 18:59
Calibration Blank	SLE0209-CCB7	XDT_m1230511-080	NA	05/11/23 19:07
Calibration Check	SLE0209-CCV8	XDT_m1230511-082	NA	05/11/23 19:18
Calibration Blank	SLE0209-CCB8	XDT_m1230511-083	NA	05/11/23 19:25
Calibration Check	SLE0209-CCVA	XDT_m1230511-094	NA	05/11/23 19:55
Calibration Blank	SLE0209-CCBA	XDT_m1230511-095	NA	05/11/23 20:00
ZZZZZ	23D0636-01	XDT_m1230511-096	Water	05/11/23 20:07
ZZZZZ	23D0636-01	XDT_m1230511-096	Water	05/11/23 20:07
ZZZZZ	BLE0298-DUP2	XDT_m1230511-097	Water	05/11/23 20:11
ZZZZZ	BLE0298-MS2	XDT_m1230511-098	Water	05/11/23 20:16
ZZZZZ	BLE0298-MSD2	XDT_m1230511-099	Water	05/11/23 20:20
Instrument Blank	SLE0209-IBLC	XDT_m1230511-100	NA	05/11/23 20:25
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	BLE0143-DUP1	XDT_m1230511-102	Solid	05/11/23 20:35
ZZZZZ	BLE0143-MS1	XDT_m1230511-103	Solid	05/11/23 20:40
ZZZZZ	BLE0143-MSD1	XDT_m1230511-104	Solid	05/11/23 20:44
Instrument Blank	SLE0209-IBLD	XDT_m1230511-105	NA	05/11/23 20:49
Calibration Check	SLE0209-CCVB	XDT_m1230511-106	NA	05/11/23 20:53
Calibration Blank	SLE0209-CCBB	XDT_m1230511-107	NA	05/11/23 21:00
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
Instrument Blank	SLE0209-IBLE	XDT_m1230511-114	NA	05/11/23 21:34
Instrument Blank	SLE0209-IBLF	XDT_m1230511-116	NA	05/11/23 21:46
Calibration Check	SLE0209-CCVC	XDT_m1230511-117	NA	05/11/23 21:50
Calibration Blank	SLE0209-CCBC	XDT_m1230511-118	NA	05/11/23 21:58
Calibration Check	SLE0209-CCVD	XDT_m1230511-120	NA	05/11/23 22:08
Calibration Blank	SLE0209-CCBD	XDT_m1230511-121	NA	05/11/23 22:15
ZZZZZ	23A0467-03	XDT_m1230511-122	Solid	05/11/23 22:22
ZZZZZ	23A0467-03	XDT_m1230511-122	Solid	05/11/23 22:22
ZZZZZ	23A0467-03	XDT_m1230511-122	Solid	05/11/23 22:22
ZZZZZ	23C0071-03	XDT_m1230511-123	Solid	05/11/23 22:27
ZZZZZ	23C0071-03	XDT_m1230511-123	Solid	05/11/23 22:27
ZZZZZ	23C0071-03	XDT_m1230511-123	Solid	05/11/23 22:27
ZZZZZ	23D0008-01	XDT_m1230511-124	Solid	05/11/23 22:31
ZZZZZ	23D0008-01	XDT_m1230511-124	Solid	05/11/23 22:31
ZZZZZ	23D0008-01	XDT_m1230511-124	Solid	05/11/23 22:31
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
Instrument Blank	SLE0209-IBLG	XDT_m1230511-131	NA	05/11/23 23:02
Calibration Check	SLE0209-CCVE	XDT_m1230511-132	NA	05/11/23 23:07
Calibration Blank	SLE0209-CCBE	XDT_m1230511-133	NA	05/11/23 23:14
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
Instrument Blank	SLE0209-IBLH	XDT_m1230511-143	NA	05/11/23 23:58
Calibration Check	SLE0209-CCVF	XDT_m1230511-144	NA	05/12/23 00:02
Calibration Blank	SLE0209-CCBF	XDT_m1230511-145	NA	05/12/23 00:09
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
Instrument Blank	SLE0209-IBLI	XDT_m1230511-155	NA	05/12/23 00:56
Calibration Check	SLE0209-CCVG	XDT_m1230511-156	NA	05/12/23 01:00
Calibration Blank	SLE0209-CCBG	XDT_m1230511-157	NA	05/12/23 01:07
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	BLE0072-DUP2	XDT_m1230511-163	Solid	05/12/23 01:34
ZZZZZ	BLE0072-MS2	XDT_m1230511-164	Solid	05/12/23 01:38
ZZZZZ	BLE0072-MSD2	XDT_m1230511-165	Solid	05/12/23 01:43
ZZZZZ	BLE0072-PS2	XDT_m1230511-166	Solid	05/12/23 01:49
Instrument Blank	SLE0209-IBLJ	XDT_m1230511-167	NA	05/12/23 01:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0209-CCVH	XDT_m1230511-168	NA	05/12/23 01:58
Calibration Blank	SLE0209-CCBH	XDT_m1230511-169	NA	05/12/23 02:05
ZZZZZ	23D0568-03RE1	XDT_m1230511-170	Solid	05/12/23 02:09
ZZZZZ	23D0568-07RE1	XDT_m1230511-171	Solid	05/12/23 02:14
ZZZZZ	23D0568-07RE1	XDT_m1230511-171	Solid	05/12/23 02:14
ZZZZZ	23D0568-08RE1	XDT_m1230511-172	Solid	05/12/23 02:18
ZZZZZ	BLE0143-DUP2	XDT_m1230511-173	Solid	05/12/23 02:22
ZZZZZ	BLE0143-MS2	XDT_m1230511-174	Solid	05/12/23 02:27
ZZZZZ	BLE0143-MSD2	XDT_m1230511-175	Solid	05/12/23 02:31
Instrument Blank	SLE0209-IBLK	XDT_m1230511-176	NA	05/12/23 02:36
Instrument Blank	SLE0209-IBLL	XDT_m1230511-179	NA	05/12/23 02:56
Calibration Check	SLE0209-CCVI	XDT_m1230511-180	NA	05/12/23 03:00
Calibration Blank	SLE0209-CCBI	XDT_m1230511-181	NA	05/12/23 03:07
Calibration Check	SLE0209-CCVJ	XDT_m1230511-183	NA	05/12/23 03:16
Calibration Blank	SLE0209-CCBJ	XDT_m1230511-184	NA	05/12/23 03:23
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
Instrument Blank	SLE0209-IBLM	XDT_m1230511-188	NA	05/12/23 03:46
Instrument Blank	SLE0209-IBLN	XDT_m1230511-194	NA	05/12/23 04:12
Calibration Check	SLE0209-CCVK	XDT_m1230511-195	NA	05/12/23 04:17
Calibration Blank	SLE0209-CCBK	XDT_m1230511-196	NA	05/12/23 04:24
Instrument Blank	SLE0209-IBLO	XDT_m1230511-206	NA	05/12/23 05:08
Calibration Check	SLE0209-CCVL	XDT_m1230511-207	NA	05/12/23 05:12
Calibration Blank	SLE0209-CCBL	XDT_m1230511-208	NA	05/12/23 05:19
ZZZZZ	23D0598-06	XDT_m1230511-214	Water	05/12/23 05:47
ZZZZZ	23D0598-08	XDT_m1230511-215	Water	05/12/23 05:51
ZZZZZ	23D0598-10	XDT_m1230511-216	Water	05/12/23 05:55
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00
Instrument Blank	SLE0209-IBLP	XDT_m1230511-218	NA	05/12/23 06:04
Calibration Check	SLE0209-CCVM	XDT_m1230511-219	NA	05/12/23 06:09
Calibration Blank	SLE0209-CCBM	XDT_m1230511-220	NA	05/12/23 06:16
Instrument Blank	SLE0209-IBLQ	XDT_m1230511-225	NA	05/12/23 06:37
Instrument Blank	SLE0209-IBLR	XDT_m1230511-230	NA	05/12/23 07:00
Calibration Check	SLE0209-CCVN	XDT_m1230511-231	NA	05/12/23 07:04
Calibration Blank	SLE0209-CCBN	XDT_m1230511-232	NA	05/12/23 07:11
Calibration Check	SLE0209-CCVO	XDT_m1230511-234	NA	05/12/23 07:20
Calibration Blank	SLE0209-CCBO	XDT_m1230511-235	NA	05/12/23 07:27
Instrument Blank	SLE0209-IBLS	XDT_m1230511-245	NA	05/12/23 08:11
Calibration Check	SLE0209-CCVP	XDT_m1230511-246	NA	05/12/23 08:15
Calibration Blank	SLE0209-CCBP	XDT_m1230511-247	NA	05/12/23 08:22

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Sequence: SLE0163
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0163-IFA1	Chromium-52	0	0.6100		ug/L
	Chromium-53	0	3.6380		ug/L
	Lead-208	0	0.0240		ug/L
	Silver-107	0	0.0030		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Sequence: SLE0163
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0163-IFB1	Chromium-52	20.000	19.239	96.2	ug/L
	Chromium-53	20.000	22.578	113	ug/L
	Lead-208	0	0.0160		ug/L
	Silver-107	20.000	16.458	82.3	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFA1	Chromium-52	0	0.6610		ug/L
	Chromium-53	0	1.7410		ug/L
	Lead-208	0	0.0270		ug/L
	Silver-107	0	0.0050		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFB1	Chromium-52	20.000	20.186	101	ug/L
	Chromium-53	20.000	21.276	106	ug/L
	Lead-208	0	0.0180		ug/L
	Silver-107	20.000	18.002	90.0	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Standard ID: L005318

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0209-IFA1	Chromium-52	0	0.6190		ug/L
	Chromium-53	0	1.6910		ug/L
	Lead-208	0	0.0170		ug/L
	Silver-107	0	0.0040		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Standard ID: L005318

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0209-IFB1	Chromium-52	20.000	19.309	96.5	ug/L
	Chromium-53	20.000	20.701	104	ug/L
	Lead-208	0	0.0190		ug/L
	Silver-107	20.000	18.557	92.8	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Sequence: SLE0163
Lab Sample ID: SLE0163-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.488	97.6	ug/L	50 - 150
Chromium-53	0.50000	0.510	102	ug/L	50 - 150
Lead-208	0.10000	0.104	104	ug/L	50 - 150
Silver-107	0.20000	0.217	109	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Lab Sample ID: SLE0204-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.523	105	ug/L	50 - 150
Chromium-53	0.50000	0.501	100	ug/L	50 - 150
Lead-208	0.10000	0.107	107	ug/L	50 - 150
Silver-107	0.20000	0.202	101	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Lab Sample ID: SLE0209-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.497	99.4	ug/L	50 - 150
Chromium-53	0.50000	0.480	96.0	ug/L	50 - 150
Lead-208	0.10000	0.113	113	ug/L	50 - 150
Silver-107	0.20000	0.206	103	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00034
Laboratory ID: SLE0163-HCV1
Sequence: SLE0163
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	196	-2.0	10.00
Chromium-53	200.00	194	-3.0	10.00
Lead-208	200.00	205	2.4	10.00
Silver-107	200.00	183	-8.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00034
Laboratory ID: SLE0163-HCV2
Sequence: SLE0163
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	304	1.2	10.00
Chromium-53	300.00	303	1.0	10.00
Lead-208	300.00	310	3.3	10.00
Silver-107	300.00	286	-4.8	10.00

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV1
Sequence: SLE0204
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	198	-0.8	10.00
Chromium-53	200.00	195	-2.5	10.00
Lead-208	200.00	200	0.004	10.00
Silver-107	200.00	194	-3.2	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV2
Sequence: SLE0204
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	306	1.9	10.00
Chromium-53	300.00	295	-1.7	10.00
Lead-208	300.00	317	5.5	10.00
Silver-107	300.00	311	3.6	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Laboratory ID: SLE0209-HCV1
Sequence: SLE0209
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	193	-3.3	10.00
Chromium-53	200.00	190	-5.1	10.00
Lead-208	200.00	195	-2.3	10.00
Silver-107	200.00	201	0.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Laboratory ID: SLE0209-HCV2
Sequence: SLE0209
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	305	1.7	10.00
Chromium-53	300.00	292	-2.8	10.00
Lead-208	300.00	300	-0.02	10.00
Silver-107	300.00	295	-1.5	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/28/23 15:38	23	180	05/11/23 22:35	36	180	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/28/23 15:38	22	180	05/11/23 22:40	36	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Chromium-52	0.26	0.50	mg/kg
Chromium-53	0.24	0.50	mg/kg
Lead-208	0.05	0.10	mg/kg
Silver-107	0.02	0.20	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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Christiansburg, VA 24073 USA
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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

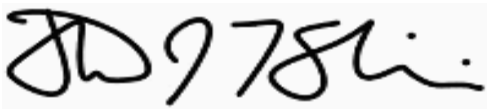
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	< 0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500			
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614			
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500			
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500			
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500			
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000			
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500			
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000			
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500			
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500			
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500			
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500			
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000			
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500			
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

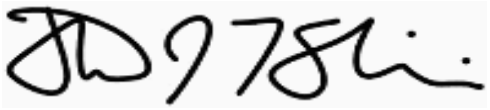
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

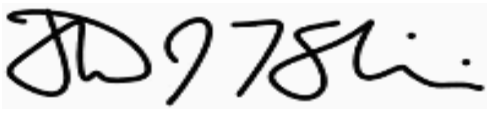
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn	0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	< 0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100			
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800			
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750			
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300			
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100			
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600			
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100			
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800			
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100			
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100			
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100			
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800			
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200			
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100			
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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300 Technology Drive
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 52 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10051 ± 19 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

Assay Method #3 **10049 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn		0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	<	0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110				
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900				
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100				
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110				
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110				
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110				
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000				
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110				
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110				
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410				
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<					
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000				
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H2V10O284-

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4, HF, H3PO4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na2CO3 / KNO3); Oxides (V2O3 - use HCl, V2O4 - use HCl or HNO3, V2O5 - use concentrated acids); Ores (Na2CO3 / KNO3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V2O5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

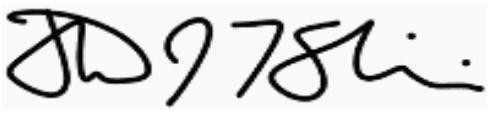
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

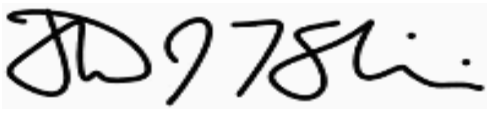
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9987 ± 24 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **10004 ± 84 µg/mL**
ICP Assay NIST SRM 3141a Lot Number: 140813

Assay Method #3 **10007 ± 45 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

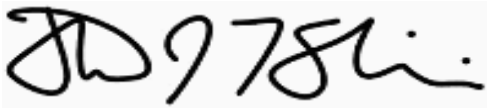
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn	0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	< 0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460			
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300			
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279			
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460			
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460			
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300			
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460			
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700			
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046			
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460			
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460			
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460			
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460			
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720			
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 $Mg(H_2O)_6^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, and H_2SO_4 avoid HF, H_3PO_4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO_3 / LDPE container.

Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO_3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

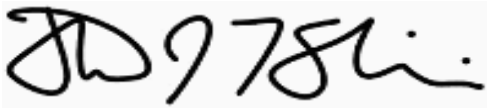
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.000930	M	Eu	< 0.000930	s	Na	<		M	Se	< 0.003800	O	Zn		0.000138	
M	Al	0.004409	O	Fe	0.002393	M	Nb	< 0.000930		O	Si	0.056696	O	Zr	<	0.003200	
O	As	< 0.023000	M	Ga	< 0.000930	M	Nd	< 0.000930		M	Sm	< 0.000930					
O	Au	< 0.004100	M	Gd	< 0.000930	O	Ni	< 0.003000		M	Sn	< 0.002800					
O	B	0.001385	M	Ge	< 0.004700	M	Os	< 0.000930		O	Sr	0.000251					
M	Ba	0.004031	M	Hf	< 0.000930	O	P	0.010205		M	Ta	< 0.000930					
O	Be	< 0.000130	M	Hg	< 0.000930	M	Pb	< 0.000930		M	Tb	< 0.000930					
M	Bi	< 0.000930	M	Ho	< 0.000930	M	Pd	< 0.000930		M	Te	< 0.001900					
O	Ca	0.176388	M	In	< 0.000930	M	Pr	< 0.000930		M	Th	0.000352					
O	Cd	< 0.000860	M	Ir	< 0.000930	M	Pt	< 0.000930		O	Ti	0.000592					
M	Ce	< 0.001900	O	K	0.302380	M	Rb	< 0.000930		M	Tl	< 0.000930					
O	Co	< 0.001800	O	La	< 0.002100	M	Re	< 0.000930		M	Tm	< 0.000930					
M	Cr	< 0.002800	O	Li	0.000031	M	Rh	< 0.000930		M	U	< 0.000930					
M	Cs	< 0.000930	M	Lu	< 0.000930	M	Ru	< 0.001900		O	V	< 0.001600					
O	Cu	< 0.003900	O	Mg	0.026458	O	S	0.040317		O	W	< 0.028000					
M	Dy	< 0.000930	O	Mn	< 0.000740	M	Sb	< 0.000930		O	Y	< 0.000860					
M	Er	< 0.000930	O	Mo	< 0.003600	O	Sc	< 0.000610		O	Yb	< 0.000250					

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

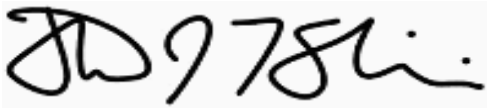
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.000270	M	Eu	< 0.000270	M	Na	< 0.011000	M	Se	< 0.009300	M	Zn	0.002358			
M	Al	< 0.011000	M	Fe	0.003222	M	Nb	< 0.000270	M	Si	< 0.160000	M	Zr	< 0.001100			
M	As	< 0.002400	M	Ga	< 0.000270	M	Nd	< 0.000270	M	Sm	< 0.000270						
M	Au	< 0.000270	M	Gd	< 0.000270	M	Ni	< 0.020000	M	Sn	< 0.011000						
M	B	< 0.000270	M	Ge	< 0.000800	M	Os	< 0.001900	M	Sr	< 0.000270						
M	Ba	< 0.003800	M	Hf	< 0.000270	i	P	<	M	Ta	< 0.000270						
M	Be	< 0.000270	M	Hg	< 0.000540	M	Pb	< 0.002200	M	Tb	< 0.000270						
M	Bi	< 0.000270	M	Ho	< 0.000270	M	Pd	< 0.000540	M	Te	< 0.003800						
M	Ca	< 0.140000	M	In	< 0.000270	M	Pr	< 0.000270	M	Th	0.000129						
M	Cd	< 0.000270	M	Ir	< 0.000270	M	Pt	< 0.000270	M	Ti	< 0.002700						
M	Ce	< 0.000540	O	K	< 0.250000	M	Rb	< 0.000800	M	Tl	< 0.000270						
M	Co	< 0.000800	M	La	0.000117	M	Re	< 0.064000	M	Tm	< 0.000270						
M	Cr	0.000943	M	Li	< 0.003000	M	Rh	< 0.000270	s	U	<						
M	Cs	0.000106	M	Lu	< 0.000270	M	Ru	< 0.000540	M	V	< 0.000540						
M	Cu	< 0.001100	M	Mg	< 0.003000	i	S	<	M	W	< 0.000540						
M	Dy	< 0.000270	M	Mn	< 0.006900	M	Sb	< 0.000270	M	Y	< 0.000270						
M	Er	< 0.000270	M	Mo	< 0.006400	M	Sc	< 0.000540	M	Yb	< 0.000270						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

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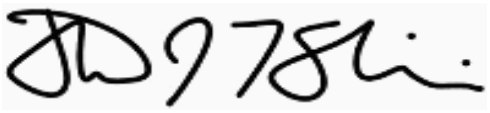
12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

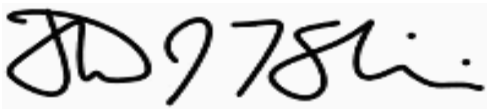
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

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w_i = the weighting factors for each method calculated using the inverse square of the variance:

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CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

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u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

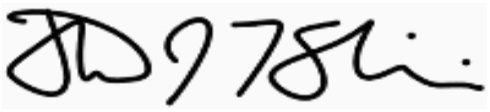
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 C	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/27/23 15:14	File ID:	SMM 05-01-23-054
% Solids:	47.25	Preparation:	SMM EPA 7471B	Analyzed:	05/01/23 14:26
Batch:	BLD0688	Sequence:	SLE0012	Initial/Final:	0.265 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GE00003

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.253	1	0.00839	0.0399	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 B	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/27/23 15:14	File ID:	SMM 05-01-23-055
% Solids:	48.35	Preparation:	SMM EPA 7471B	Analyzed:	05/01/23 14:29
Batch:	BLD0688	Sequence:	SLE0012	Initial/Final:	0.209 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GE00003

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.208	1	0.0104	0.0495	

PREPARATION BATCH SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0688 Batch Matrix: Solid
Preparation: SMM EPA 7471B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	SMM 05-01-23-054	04/27/23 15:14	Store frozen
LDW23-SS1803	23D0136-03	SMM 05-01-23-055	04/27/23 15:14	Store frozen
Blank	BLD0688-BLK1	SMM 05-01-23-044	04/27/23 15:14	
LCS	BLD0688-BS1	SMM 05-01-23-045	04/27/23 15:14	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM Balance ID: BAL10 Matrix: Soil
Analyst: AR Block ID: 9 Date: 04/27/23
Bath Temp: 95°C Start Time: 1418 End Time: 1514

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CLP	Comments
23D136-01	C		0.265	50	1		
↓ -03	B		0.209				
23D394-01	C		0.219				
-02	B		0.264				
-04	C		0.258				
-06			0.258				
-08			0.255				
-11			0.288				
↓ -12			0.254				
23D396-01			0.221				
↓ -03	↓		0.205				23D394-01
BLD688-blk	—		—				↓
-bs	—		—				
-dup	—		0.219				
-MS	—		0.215				
↓ -MSD	—		0.218				
23D37-02	D		0.211				
↓ -04	↓		0.221	↓	↓		

MC 04/27/23

Chemical/Reagent ID:
HNO_3: L4188 H_2SO_4: L923 HCl: —
5% $K_2S_2O_8$: K3350 5% $KMnO_4$: K11727 Digest Tube Lot: 2210117

Form I

METHOD BLANK DATA SHEET

EPA 7471B

Total Metals

Blank

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0688
Laboratory ID: BLD0688-BLK1
Prepared: 04/27/23 15:14
Matrix: Solid
Preparation: SMM EPA 7471B
Analyzed: 05/01/23 14:03
Sequence: SLE0012
Calibration: GE00003
Instrument: HYDRA

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	ND	1	0.00525	0.0250	U

LCS / LCS DUPLICATE RECOVERY

EPA 7471B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/01/23 14:06
Batch:	BLD0688	Laboratory ID:	BLD0688-BS1
Preparation:	SMM EPA 7471B	Sequence Name:	LCS
Initial/Final:	0.2 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Mercury	0.500	0.441		88.2	80 - 120

* Indicates values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00003	Instrument:	HYDRA
Calibration Date:	05/01/2023 15:11		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Mercury	0	0	0.0001	6280000	0.0005	5844000	0.001	5860000	0.002	5878000	0.005	5719400

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00003	Instrument:	HYDRA
Calibration Date:	05/01/2023 15:11		

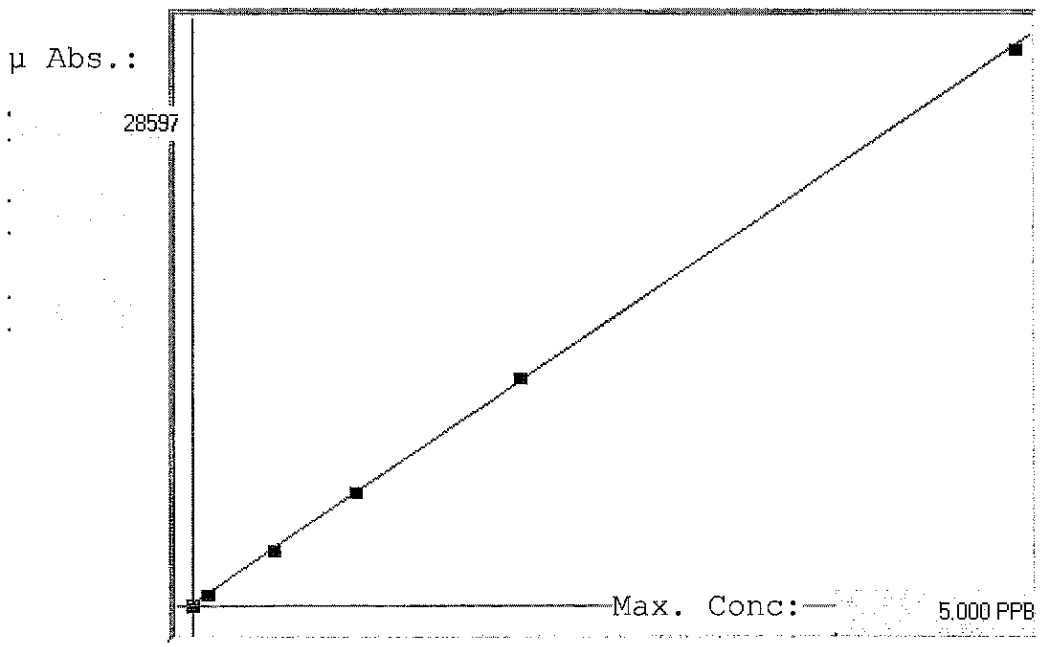
COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Mercury	4930233	49.1	0.9999		0.99	

SMM 05-01-23 GE00003 SLE0012

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 01 May 2023 10:50:09

Sample ID	Mean	Units		Date	Method
SEQ-CAL1	-6	PPB		01 May 2023 10:51:23	ARI 5 ppb (NO 0.05)
SEQ-CAL2	628	PPB		01 May 2023 10:53:44	ARI 5 ppb (NO 0.05)
SEQ-CAL3	2922	PPB		01 May 2023 10:56:05	ARI 5 ppb (NO 0.05)
SEQ-CAL4	5860	PPB		01 May 2023 10:58:26	ARI 5 ppb (NO 0.05)
SEQ-CAL5	11756	PPB		01 May 2023 11:00:46	ARI 5 ppb (NO 0.05)
SEQ-CAL6	28597	PPB		01 May 2023 11:03:06	ARI 5 ppb (NO 0.05)
SEQ-ICV	101.8% 4.0705	PPB	✓	01 May 2023 11:30:14	ARI 5 ppb (NO 0.05)
SEQ-ICB	-0.0184	PPB	✓	01 May 2023 11:32:33	ARI 5 ppb (NO 0.05)
SEQ-CRL	93.7% 0.0937	PPB	✓	01 May 2023 11:34:55	ARI 5 ppb (NO 0.05)
SEQ-CCV	102.3% 4.0916	PPB	✓	01 May 2023 11:37:16	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0184	PPB	✓	01 May 2023 11:39:34	ARI 5 ppb (NO 0.05)
SEQ-CCV	100.6% 4.0257	PPB	✓	01 May 2023 11:41:56	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0198	PPB	✓	01 May 2023 11:44:15	ARI 5 ppb (NO 0.05)
SEQ-CCV	101.5% 4.0604	PPB	✓	01 May 2023 12:53:53	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0176	PPB	✓	01 May 2023 12:56:11	ARI 5 ppb (NO 0.05)
BLD0668-BLK1	-0.0112	PPB		01 May 2023 12:58:33	ARI 5 ppb (NO 0.05)
BLD0668-BS1	1.7744	PPB	✓	01 May 2023 13:00:52	ARI 5 ppb (NO 0.05)
23D0420-01	0.0689	PPB		01 May 2023 13:03:11	ARI 5 ppb (NO 0.05)
BLD0668-DUP1	0.0696	PPB		01 May 2023 13:05:30	ARI 5 ppb (NO 0.05)
BLD0668-MS1	0.6552	PPB	x del	01 May 2023 13:07:49	ARI 5 ppb (NO 0.05)
23D0297-01	0.1601	PPB		01 May 2023 13:10:08	ARI 5 ppb (NO 0.05)
23D0297-02	0.0801	PPB		01 May 2023 13:12:27	ARI 5 ppb (NO 0.05)
23D0297-03	0.1859	PPB		01 May 2023 13:14:47	ARI 5 ppb (NO 0.05)
23D0297-04	0.2936	PPB		01 May 2023 13:17:06	ARI 5 ppb (NO 0.05)
23D0297-05	0.0732	PPB		01 May 2023 13:19:26	ARI 5 ppb (NO 0.05)
SEQ-CCV	102.4% 4.0960	PPB	✓	01 May 2023 13:21:47	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0186	PPB	✓	01 May 2023 13:24:05	ARI 5 ppb (NO 0.05)
23D0297-06	0.0398	PPB		01 May 2023 13:26:26	ARI 5 ppb (NO 0.05)
23D0297-07	0.0703	PPB		01 May 2023 13:28:47	ARI 5 ppb (NO 0.05)
23D0297-08	0.0831	PPB		01 May 2023 13:31:07	ARI 5 ppb (NO 0.05)
23D0303-01	0.3177	PPB		01 May 2023 13:33:26	ARI 5 ppb (NO 0.05)
23D0303-02	0.1133	PPB		01 May 2023 13:35:45	ARI 5 ppb (NO 0.05)
23D0383-01	0.6445	PPB		01 May 2023 13:38:04	ARI 5 ppb (NO 0.05)
23D0384-01	0.5203	PPB		01 May 2023 13:40:23	ARI 5 ppb (NO 0.05)
23D0421-01	0.2459	PPB		01 May 2023 13:42:42	ARI 5 ppb (NO 0.05)
23D0437-01	0.1558	PPB		01 May 2023 13:45:01	ARI 5 ppb (NO 0.05)
23D0437-02	0.1899	PPB		01 May 2023 13:47:20	ARI 5 ppb (NO 0.05)
SEQ-CCV	101.7% 4.0674	PPB	✓	01 May 2023 13:49:40	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0209	PPB	✓	01 May 2023 13:51:58	ARI 5 ppb (NO 0.05)
23D0544-01	0.0877	PPB		01 May 2023 13:54:20	ARI 5 ppb (NO 0.05)
23D0544-02	0.0209	PPB		01 May 2023 13:56:40	ARI 5 ppb (NO 0.05)
23D0579-01	0.0805	PPB		01 May 2023 13:59:01	ARI 5 ppb (NO 0.05)
BLD0668-MS1	0.8611	PPB	✓	01 May 2023 14:01:22	ARI 5 ppb (NO 0.05)
BLD0688-BLK1	-0.0117	PPB		01 May 2023 14:03:42	ARI 5 ppb (NO 0.05)
BLD0688-BS1	1.7632	PPB	✓	01 May 2023 14:06:01	ARI 5 ppb (NO 0.05)
23D0394-01	0.3509	PPB		01 May 2023 14:08:21	ARI 5 ppb (NO 0.05)
BLD0688-DUP1	0.2577	PPB		01 May 2023 14:10:40	ARI 5 ppb (NO 0.05)
BLD0688-MS1	1.3034	PPB	✓	01 May 2023 14:13:00	ARI 5 ppb (NO 0.05)
BLD0688-MSD1	1.2637	PPB	✓	01 May 2023 14:15:19	ARI 5 ppb (NO 0.05)
SEQ-CCV	100.2% 4.0078	PPB	✓	01 May 2023 14:17:38	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0184	PPB	✓	01 May 2023 14:19:56	ARI 5 ppb (NO 0.05)
23D0037-02	0.3471	PPB		01 May 2023 14:22:18	ARI 5 ppb (NO 0.05)
23D0037-04	0.3311	PPB		01 May 2023 14:24:37	ARI 5 ppb (NO 0.05)
23D0136-01	0.6340	PPB		01 May 2023 14:26:58	ARI 5 ppb (NO 0.05)
23D0136-03	0.4205	PPB		01 May 2023 14:29:17	ARI 5 ppb (NO 0.05)
23D0394-02	0.0943	PPB		01 May 2023 14:31:38	ARI 5 ppb (NO 0.05)
23D0394-04	0.1059	PPB		01 May 2023 14:33:58	ARI 5 ppb (NO 0.05)
23D0394-06	0.0143	PPB		01 May 2023 14:36:20	ARI 5 ppb (NO 0.05)
23D0394-08	0.2875	PPB		01 May 2023 14:38:39	ARI 5 ppb (NO 0.05)
23D0394-11	0.8730	PPB		01 May 2023 14:40:58	ARI 5 ppb (NO 0.05)

ARI 5 ppb (NO 0.05)



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
SEQ-CAL1 - Blank	0.000	-0.018	-0.018	-5	3.399	-9	-1	-7		
SEQ-CAL2 - 0.1 PPB	0.100	0.093	-0.007	628	0.2 %	629	629	627		
SEQ-CAL3 - 0.5 PPB	0.500	0.494	-0.006	2921	0.5 %	2903	2929	2933		
SEQ-CAL4 - 1.0 PPB	1.000	1.008	0.008	5859	1.5 %	5735	5938	5906		
SEQ-CAL5 - 2.0 PPB	2.000	2.039	0.039	11755	1.0 %	11615	11914	11738		
SEQ-CAL6 - 5.0 PPB	5.000	4.983	-0.017	28597	1.1 %	29018	28454	28319		

Mercury Analysis Log

Analyst: ML
Instrument: HYDRA

Date: 05/01/23
Page: 1 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
SEQ -CAL1	3mm	1X		
-CAL2				
-CAL3				
-CAL4				
-CAL5				
-CAL6				
-ICV			✓4.07	
-ICB			✓-0.018	
-CRL			✓0.973	
-CCV			✓4.09	
-CCB			✓-0.018	
-CCV			✓4.02	
-CCB			✓-0.019	
-CCV			✓4.06	
-CCB			✓-0.017	
BLD0668 -BLK1				
-LCS1			✓1.774	88.7%R
23D0420 -01				
BLD0668 -DUP1				RPD = 1.01
-MS1			x 0.655	58.6%R ; DL1
23D0297 -01				
-02				
-03				
-04				
-05				
SEQ -CCV			✓4.09	
-CCB			✓-0.018	
23D0297 -06				
-07				
-08				

Chemical/Reagent ID:
10% $SnCl_2$: L4336

14% NH_2OH/NaCl: L4334

Standard ID:
Standard: L4785-L4790

ICV/CCV: L4782

Mercury Analysis Log

Analyst: — **Date:** —

Instrument: — **Page:** 2 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
23D0303 -01				
↓ -02				
23D0383 -01				
23D0384 -01				
23D0421 -01				
23D0437 -01				
↓ -02				
SEQ -CCV			✓4.06	
↓ -CCB			✓ -0.02	
23D0544 -01				
↓ -02				
23D0579 -01				
BLD0668 -MS1			✓0.861	79.2 %R
BLD0688 -BLK1				
↓ -BS1			✓ 1.763	88.1 %R
23D0394 -01				
BLD0688 -DUP1				ND RPD
↓ -MS1			✓1.303	95.2 %R
↓ -MSD1			✓ 1.263	91.2 %R
SEQ -CCV			✓4.00	
↓ -CCB			✓-0.018	
23D0037 -02				
↓ -04				
23D0136 -01				
↓ -03				
23D0394 -02				
↓ -04				
↓ -06				
↓ -08				
↓ -11				

Chemical/Reagent ID:

10% $SnCl_2$: — **14% NH_2OH/NaCl:** —

Standard ID: —

Standard: — **ICV/CCV:** —

Mercury Analysis Log

Analyst: — Date: —

Instrument: — Page: 3 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
↓ -12				
SEQ -CCV			✓3.85	
↓ -CCB			✓-0.02	
23D0396 -01				
↓ -03				
SEQ -CCV			✓3.92	
↓ -CCB	↓	↓	✓-0.02	

MJ 05/01/23

Chemical/Reagent ID:

10% $SnCl_2$: — 14% NH_2OH/NaCl: —

Standard ID:

Standard: — ICV/CCV: —

SMM 05-01-23 GE00003 SLE0012

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 01 May 2023 10:50:09

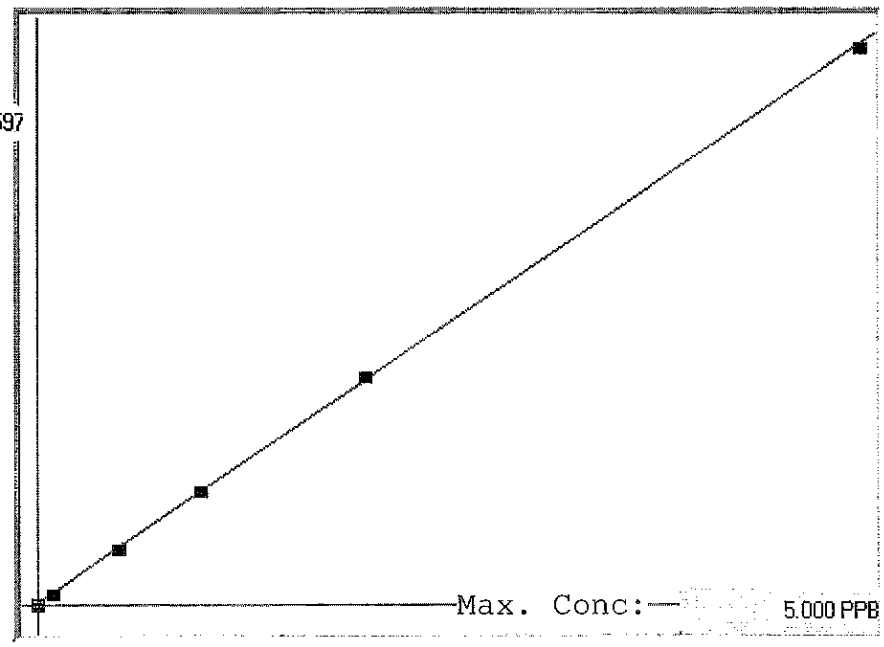
Sample ID	Mean	Units		Date	Method
SEQ-CAL1	-6	PPB		01 May 2023 10:51:23	ARI 5 ppb (NO 0.05)
SEQ-CAL2	628	PPB		01 May 2023 10:53:44	ARI 5 ppb (NO 0.05)
SEQ-CAL3	2922	PPB		01 May 2023 10:56:05	ARI 5 ppb (NO 0.05)
SEQ-CAL4	5860	PPB		01 May 2023 10:58:26	ARI 5 ppb (NO 0.05)
SEQ-CAL5	11756	PPB		01 May 2023 11:00:46	ARI 5 ppb (NO 0.05)
SEQ-CAL6	28597	PPB		01 May 2023 11:03:06	ARI 5 ppb (NO 0.05)
SEQ-ICV	101.8% 4.0705	PPB	✓	01 May 2023 11:30:14	ARI 5 ppb (NO 0.05)
SEQ-ICB	-0.0184	PPB	✓	01 May 2023 11:32:33	ARI 5 ppb (NO 0.05)
SEQ-CRL	93.7% 0.0937	PPB	✓	01 May 2023 11:34:55	ARI 5 ppb (NO 0.05)
SEQ-CCV	102.3% 4.0916	PPB	✓	01 May 2023 11:37:16	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0184	PPB	✓	01 May 2023 11:39:34	ARI 5 ppb (NO 0.05)
SEQ-CCV	100.6% 4.0257	PPB	✓	01 May 2023 11:41:56	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0198	PPB	✓	01 May 2023 11:44:15	ARI 5 ppb (NO 0.05)
SEQ-CCV	101.5% 4.0604	PPB	✓	01 May 2023 12:53:53	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0176	PPB	✓	01 May 2023 12:56:11	ARI 5 ppb (NO 0.05)
BLD0668-BLK1	-0.0112	PPB		01 May 2023 12:58:33	ARI 5 ppb (NO 0.05)
BLD0668-BS1	1.7744	PPB	✓	01 May 2023 13:00:52	ARI 5 ppb (NO 0.05)
23D0420-01	0.0689	PPB		01 May 2023 13:03:11	ARI 5 ppb (NO 0.05)
BLD0668-DUP1	0.0696	PPB		01 May 2023 13:05:30	ARI 5 ppb (NO 0.05)
BLD0668-MS1	0.6552	PPB	✗ del	01 May 2023 13:07:49	ARI 5 ppb (NO 0.05)
23D0297-01	0.1601	PPB		01 May 2023 13:10:08	ARI 5 ppb (NO 0.05)
23D0297-02	0.0801	PPB		01 May 2023 13:12:27	ARI 5 ppb (NO 0.05)
23D0297-03	0.1859	PPB		01 May 2023 13:14:47	ARI 5 ppb (NO 0.05)
23D0297-04	0.2936	PPB		01 May 2023 13:17:06	ARI 5 ppb (NO 0.05)
23D0297-05	0.0732	PPB		01 May 2023 13:19:26	ARI 5 ppb (NO 0.05)
SEQ-CCV	102.4% 4.0960	PPB	✓	01 May 2023 13:21:47	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0186	PPB	✓	01 May 2023 13:24:05	ARI 5 ppb (NO 0.05)
23D0297-06	0.0398	PPB		01 May 2023 13:26:26	ARI 5 ppb (NO 0.05)
23D0297-07	0.0703	PPB		01 May 2023 13:28:47	ARI 5 ppb (NO 0.05)
23D0297-08	0.0831	PPB		01 May 2023 13:31:07	ARI 5 ppb (NO 0.05)
23D0303-01	0.3177	PPB		01 May 2023 13:33:26	ARI 5 ppb (NO 0.05)
23D0303-02	0.1133	PPB		01 May 2023 13:35:45	ARI 5 ppb (NO 0.05)
23D0383-01	0.6445	PPB		01 May 2023 13:38:04	ARI 5 ppb (NO 0.05)
23D0384-01	0.5203	PPB		01 May 2023 13:40:23	ARI 5 ppb (NO 0.05)
23D0421-01	0.2459	PPB		01 May 2023 13:42:42	ARI 5 ppb (NO 0.05)
23D0437-01	0.1558	PPB		01 May 2023 13:45:01	ARI 5 ppb (NO 0.05)
23D0437-02	0.1899	PPB		01 May 2023 13:47:20	ARI 5 ppb (NO 0.05)
SEQ-CCV	101.7% 4.0674	PPB	✓	01 May 2023 13:49:40	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0209	PPB	✓	01 May 2023 13:51:58	ARI 5 ppb (NO 0.05)
23D0544-01	0.0877	PPB		01 May 2023 13:54:20	ARI 5 ppb (NO 0.05)
23D0544-02	0.0209	PPB		01 May 2023 13:56:40	ARI 5 ppb (NO 0.05)
23D0579-01	0.0805	PPB		01 May 2023 13:59:01	ARI 5 ppb (NO 0.05)
BLD0668-MS1	0.8611	PPB	✓	01 May 2023 14:01:22	ARI 5 ppb (NO 0.05)
BLD0688-BLK1	-0.0117	PPB		01 May 2023 14:03:42	ARI 5 ppb (NO 0.05)
BLD0688-BS1	1.7632	PPB	✓	01 May 2023 14:06:01	ARI 5 ppb (NO 0.05)
23D0394-01	0.3509	PPB		01 May 2023 14:08:21	ARI 5 ppb (NO 0.05)
BLD0688-DUP1	0.2577	PPB		01 May 2023 14:10:40	ARI 5 ppb (NO 0.05)
BLD0688-MS1	1.3034	PPB	✓	01 May 2023 14:13:00	ARI 5 ppb (NO 0.05)
BLD0688-MSD1	1.2637	PPB	✓	01 May 2023 14:15:19	ARI 5 ppb (NO 0.05)
SEQ-CCV	100.2% 4.0078	PPB	✓	01 May 2023 14:17:38	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0184	PPB	✓	01 May 2023 14:19:56	ARI 5 ppb (NO 0.05)
23D0037-02	0.3471	PPB		01 May 2023 14:22:18	ARI 5 ppb (NO 0.05)
23D0037-04	0.3311	PPB		01 May 2023 14:24:37	ARI 5 ppb (NO 0.05)
23D0136-01	0.6340	PPB		01 May 2023 14:26:58	ARI 5 ppb (NO 0.05)
23D0136-03	0.4205	PPB		01 May 2023 14:29:17	ARI 5 ppb (NO 0.05)
23D0394-02	0.0943	PPB		01 May 2023 14:31:38	ARI 5 ppb (NO 0.05)
23D0394-04	0.1059	PPB		01 May 2023 14:33:58	ARI 5 ppb (NO 0.05)
23D0394-06	0.0143	PPB		01 May 2023 14:36:20	ARI 5 ppb (NO 0.05)
23D0394-08	0.2875	PPB		01 May 2023 14:38:39	ARI 5 ppb (NO 0.05)
23D0394-11	0.8730	PPB		01 May 2023 14:40:58	ARI 5 ppb (NO 0.05)

SMM 05-01-23

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 01 May 2023 10:50:09

Sample ID	Mean	Units		Date	Method
23D0394-12	0.1077	PPB		01 May 2023 14:43:18	ARI 5 ppb (NO 0.05)
SEQ-CCV	96.4% 3.8556	PPB	✓	01 May 2023 14:45:37	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0205	PPB	✓	01 May 2023 14:47:56	ARI 5 ppb (NO 0.05)
23D0396-01	0.4693	PPB		01 May 2023 14:50:18	ARI 5 ppb (NO 0.05)
23D0396-03	0.3397	PPB		01 May 2023 14:52:38	ARI 5 ppb (NO 0.05)
SEQ-CCV	98.1% 3.9221	PPB	✓	01 May 2023 14:54:57	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0201	PPB	✓	01 May 2023 14:57:16	ARI 5 ppb (NO 0.05)

ARI 5 ppb (NO 0.05)



A= 0.0000e+000

B= 1.7483e-004

C= -1.6511e-002

Rho= 0.9999378

Accept=Accepted

Accepted Date=

05/01/23 11:29

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
SEQ-CAL1 - Blank	0.000	-0.018	-0.018	-5	3.399	-9	-1	-7		
SEQ-CAL2 - 0.1 PPB	0.100	0.093	-0.007	628	0.2 %	629	629	627		
SEQ-CAL3 - 0.5 PPB	0.500	0.494	-0.006	2921	0.5 %	2903	2929	2933		
SEQ-CAL4 - 1.0 PPB	1.000	1.008	0.008	5859	1.5 %	5735	5938	5906		
SEQ-CAL5 - 2.0 PPB	2.000	2.039	0.039	11755	1.0 %	11615	11914	11738		
SEQ-CAL6 - 5.0 PPB	5.000	4.983	-0.017	28597	1.1 %	29018	28454	28319		

Mercury Analysis Log

Analyst: ML

Instrument: HYDRA

Date: 05/01/23

Page: 1 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
SEQ -CAL1	3mm	1X		
-CAL2				
-CAL3				
-CAL4				
-CAL5				
-CAL6				
-ICV			✓4.07	
-ICB			✓-0.018	
-CRL			✓0.93	
-CCV			✓4.09	
-CCB			✓-0.018	
-CCV			✓4.07	
-CCB			✓-0.019	
-CCV			✓4.06	
-CCB			✓-0.017	
23D0668 -BLK1				
-LCS1			✓1.774	80.7%R
23D0420 -01				
23D0668 -DUP1				RPD = 1.01
-MS1			✗0.655	58.6%R ; Dil
23D0297 -01				
-02				
-03				
-04				
-05				
SEQ -CCV			✓4.09	
-CCB			✓-0.018	
23D0297 -06				
-07				
-08				

Chemical/Reagent ID:
10% $SnCl_2$: L4336

14% NH_2OH/NaCl: L4337

Standard ID:
Standard: L4785-L4790

ICV/CCV: L4782

Mercury Analysis Log

Analyst: — **Date:** —

Instrument: — **Page:** 2 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
23D0303 -01				
↓ -02				
23D0383 -01				
23D0384 -01				
23D0421 -01				
23D0437 -01				
↓ -02				
SEQ -CCV			√4.06	
↓ -CCB			√-0.02	
23D0544 -01				
↓ -02				
23D0579 -01				
BLD0668 -MS1			√0.861	79.2 %R
BLD0688 -BK1				
↓ -BS1			√1.763	88.1 %R
23D0394 -01				
BLD0688 -DUP1				NO RPD
↓ -MS1			√1.303	95.2 %R
↓ -MSD1			√1.263	91.2 %R
SEQ -CCV			√4.00	
↓ -CCB			√-0.018	
23D0037 -02				
↓ -04				
23D0136 -01				
↓ -03				
23D0394 -02				
-04				
-06				
-08				
-11				

Chemical/Reagent ID:

10% $SnCl_2$: — **14% NH_2OH/NaCl:** —

Standard ID: —

Standard: — **ICV/CCV:** —

Mercury Analysis Log

Analyst: — Date: —

Instrument: — Page: 3 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
↓ -12				
SEQ -CCV			✓3.85	
↓ -CCB			✓-0.02	
23D0396 -01				
↓ -03				
SEQ -CCV			✓3.92	
↓ -CCB	↓	↓	✓-0.02	

MH 05/01/23

Chemical/Reagent ID:

10% $SnCl_2$: — 14% NH_2OH/NaCl: —

Standard ID:

Standard: — ICV/CCV: —

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: HYDRA
Control Limt: +/- 20.00%

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00003
Sequence: SLE0012

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0012-ICV1	Mercury	0.0040000	0.00407	102	mg/L	EPA 7471B
SLE0012-CCV1	Mercury	0.0040000	0.00409	102	mg/L	EPA 7471B
SLE0012-CCV2	Mercury	0.0040000	0.00403	101	mg/L	EPA 7471B
SLE0012-CCV3	Mercury	0.0040000	0.00406	102	mg/L	EPA 7471B
SLE0012-CCV4	Mercury	0.0040000	0.00410	102	mg/L	EPA 7471B
SLE0012-CCV5	Mercury	0.0040000	0.00407	102	mg/L	EPA 7471B
SLE0012-CCV6	Mercury	0.0040000	0.00401	100	mg/L	EPA 7471B
SLE0012-CCV7	Mercury	0.0040000	0.00386	96.4	mg/L	EPA 7471B
SLE0012-CCV8	Mercury	0.0040000	0.00392	98.1	mg/L	EPA 7471B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: HYDRA
Sequence: SLE0012

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00003
Date Analyzed: 05/01/23 11:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0012-ICB1	Mercury	-0.000018	0.000021	0.000100	mg/L	
SLE0012-CCB1	Mercury	-0.000018	0.000021	0.000100	mg/L	
SLE0012-CCB2	Mercury	-0.000020	0.000021	0.000100	mg/L	
SLE0012-CCB3	Mercury	-0.000018	0.000021	0.000100	mg/L	
SLE0012-CCB4	Mercury	-0.000019	0.000021	0.000100	mg/L	
SLE0012-CCB5	Mercury	-0.000021	0.000021	0.000100	mg/L	
SLE0012-CCB6	Mercury	-0.000018	0.000021	0.000100	mg/L	
SLE0012-CCB7	Mercury	-0.000021	0.000021	0.000100	mg/L	
SLE0012-CCB8	Mercury	-0.000020	0.000021	0.000100	mg/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0012
Instrument: HYDRA
Calibration: GE00003

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SLE0012-CAL1	SMM 05-01-23-001	NA	05/01/23 10:51
Cal Standard	SLE0012-CAL2	SMM 05-01-23-002	NA	05/01/23 10:53
Cal Standard	SLE0012-CAL3	SMM 05-01-23-003	NA	05/01/23 10:56
Cal Standard	SLE0012-CAL4	SMM 05-01-23-004	NA	05/01/23 10:58
Cal Standard	SLE0012-CAL5	SMM 05-01-23-005	NA	05/01/23 11:00
Cal Standard	SLE0012-CAL6	SMM 05-01-23-006	NA	05/01/23 11:03
Initial Cal Check	SLE0012-ICV1	SMM 05-01-23-007	NA	05/01/23 11:30
Initial Cal Blank	SLE0012-ICB1	SMM 05-01-23-008	NA	05/01/23 11:32
Instrument RL Check	SLE0012-CRL1	SMM 05-01-23-009	NA	05/01/23 11:34
Calibration Check	SLE0012-CCV1	SMM 05-01-23-010	NA	05/01/23 11:37
Calibration Blank	SLE0012-CCB1	SMM 05-01-23-011	NA	05/01/23 11:39
Calibration Check	SLE0012-CCV2	SMM 05-01-23-012	NA	05/01/23 11:41
Calibration Blank	SLE0012-CCB2	SMM 05-01-23-013	NA	05/01/23 11:44
Calibration Check	SLE0012-CCV3	SMM 05-01-23-014	NA	05/01/23 12:53
Calibration Blank	SLE0012-CCB3	SMM 05-01-23-015	NA	05/01/23 12:56
Calibration Check	SLE0012-CCV4	SMM 05-01-23-026	NA	05/01/23 13:21
Calibration Blank	SLE0012-CCB4	SMM 05-01-23-027	NA	05/01/23 13:24
Calibration Check	SLE0012-CCV5	SMM 05-01-23-038	NA	05/01/23 13:49
Calibration Blank	SLE0012-CCB5	SMM 05-01-23-039	NA	05/01/23 13:51
Blank	BLD0688-BLK1	SMM 05-01-23-044	Solid	05/01/23 14:03
LCS	BLD0688-BS1	SMM 05-01-23-045	Solid	05/01/23 14:06
Calibration Check	SLE0012-CCV6	SMM 05-01-23-050	NA	05/01/23 14:17
Calibration Blank	SLE0012-CCB6	SMM 05-01-23-051	NA	05/01/23 14:19
LDW23-SS1804	23D0136-01	SMM 05-01-23-054	Solid	05/01/23 14:26
LDW23-SS1803	23D0136-03	SMM 05-01-23-055	Solid	05/01/23 14:29
Calibration Check	SLE0012-CCV7	SMM 05-01-23-062	NA	05/01/23 14:45
Calibration Blank	SLE0012-CCB7	SMM 05-01-23-063	NA	05/01/23 14:47
Calibration Check	SLE0012-CCV8	SMM 05-01-23-066	NA	05/01/23 14:54
Calibration Blank	SLE0012-CCB8	SMM 05-01-23-067	NA	05/01/23 14:57

DETECTION LEVEL STANDARD
EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: HYDRA
Calibration: GE00003
Sequence: SLE0012
Lab Sample ID: SLE0012-CRL1

Analyte	True	Found	%R	Units	QC Limts
Mercury	0.000100	0.000094	93.7	mg/L	70 - 130

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/27/23 15:14	22	180	05/01/23 14:26	26	180	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/27/23 15:14	21	180	05/01/23 14:29	26	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: HYDRA

Analyte	MDL	RL	Units
Mercury	0.00525	0.0250	mg/kg

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGHG1
Lot Number:	S2-HG711246
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Mercury
Starting Material:	Hg Metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 6 µg/mL**
ICP Assay NIST SRM 3133 Lot Number: 160921

Assay Method #2 **998 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000210	M	Eu	<	0.000210	O	Na		0.000626	M	Se	<	0.008100	M	Zn	<	0.000810
M	Al		0.000161	O	Fe	<	0.001600	M	Nb	<	0.000410	O	Si		0.000626	M	Zr	<	0.000410
M	As	<	0.002500	M	Ga	<	0.000210	M	Nd	<	0.000210	M	Sm	<	0.000210				
O	Au	<	0.001700	M	Gd	<	0.000210	O	Ni	<	0.001400	M	Sn	<	0.000410				
M	B	<	0.008500	M	Ge	<	0.000410	M	Os	<	0.003900	O	Sr	<	0.000110				
M	Ba	<	0.000210	M	Hf	<	0.000210	O	P	<	0.029000	M	Ta	<	0.000210				
O	Be	<	0.000110	s	Hg	<		M	Pb	<	0.000210	M	Tb	<	0.000210				
M	Bi	<	0.001100	M	Ho	<	0.000210	M	Pd	<	0.003500	M	Te	<	0.005700				
O	Ca		0.004754	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	O	Ti	<	0.000430				
M	Ce	<	0.000210	O	K		0.000731	M	Rb	<	0.000210	O	Tl	<	0.005400				
M	Co	<	0.000210	M	La	<	0.000210	M	Re	<	0.000210	M	Tm	<	0.000210				
O	Cr	<	0.003300	O	Li	<	0.000110	M	Rh	<	0.001100	M	U	<	0.000410				
M	Cs	<	0.000410	M	Lu	<	0.000210	M	Ru	<	0.000810	M	V	<	0.000210				
M	Cu	<	0.000810	O	Mg		0.000104	O	S	<	0.022000	M	W	<	0.001100				
M	Dy	<	0.000210	O	Mn	<	0.000430	M	Sb	<	0.000210	M	Y	<	0.000210				
M	Er	<	0.000210	M	Mo	<	0.000210	M	Sc	<	0.000210	M	Yb	<	0.000210				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 18, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 18, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-QCS-4
Lot Number:	R2-MEB695951
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	5 µg/mL ea: Mercury

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Mercury, Hg	**5.011 ± 0.023 µg/mL**		

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The follow ing equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 D	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/07/23 14:56	File ID:	
% Solids:	47.25	Preparation:	No Prep Wet Chem	Analyzed:	04/07/23 14:58
Batch:	BLD0215	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	47.25	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-02 D	SDG:	23D0136
Sampled:	04/05/23 12:15	Prepared:	04/07/23 14:56	File ID:	
% Solids:	49.80	Preparation:	No Prep Wet Chem	Analyzed:	04/07/23 14:58
Batch:	BLD0215	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	49.80	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 D	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/07/23 14:56	File ID:	
% Solids:	48.35	Preparation:	No Prep Wet Chem	Analyzed:	04/07/23 14:58
Batch:	BLD0215	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	48.35	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-04 D	SDG:	23D0136
Sampled:	04/05/23 16:30	Prepared:	04/07/23 14:56	File ID:	
% Solids:	49.32	Preparation:	No Prep Wet Chem	Analyzed:	04/07/23 14:58
Batch:	BLD0215	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	49.32	1	0.04	0.04	

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0215 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01		04/07/23 14:56	
LDW23-SC1804	23D0136-02		04/07/23 14:56	
LDW23-SS1803	23D0136-03		04/07/23 14:56	
LDW23-SC1803	23D0136-04		04/07/23 14:56	
Blank	BLD0215-BLK1		04/07/23 14:56	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BLD0215
Date:	4/7/2023 14:58
Analyst:	UW

Instrumentation

Drying Ovens:	12	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	4/7/2023 15:45	
date/time out:	4/11/2023 8:35	
elapsed hrs =	88.8	> 24 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	104
Dry Cycle 1	105
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		4/7/23 15:10	4/7/23 15:20	4/11/23 17:05							
Cal Wt (g):	10.0000	10.0000	10.0000	9.9999							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BLD0215-BLK1	1	1.0258	0.0000	1.0256			-0.0002	0.02%								
23C0085-01	2	1.0611	8.2261	6.4702			5.4091	75.49%								
23C0085-02	3	1.0613	9.0006	7.0966			6.0353	76.02%								
BLD0215-DUP1	4	1.0431	10.0116	7.8232			6.7801	75.60%	RPD=0.6							
BLD0215-DUP2	5	1.0656	8.3746	6.6254			5.5598	76.07%	RSD=0.3							
23C0085-03	6	1.0441	9.8677	7.6420			6.5979	74.78%								
23C0085-04	7	1.0594	9.1017	7.1377			6.0783	75.58%								
23C0085-05	8	1.0531	6.9709	5.4024			4.3493	73.50%								
23C0085-06	9	1.0394	8.4739	6.5339			5.4945	73.91%								
23C0085-09	10	1.0309	8.5293	6.8378			5.8069	77.44%								
23C0085-10	11	1.0370	7.6050	6.0670			5.0300	76.58%								
23C0085-13	12	1.0085	8.8031	6.7440			5.7355	73.58%								
23C0085-14	13	1.0568	8.7895	6.4621			5.4053	69.90%								
23D0095-02	14	1.0466	2.1811	1.2876			0.2410	21.24%								
23D0104-01	15	1.0313	2.2537	1.5219			0.4906	40.13%								
23D0136-01	16	1.0180	5.6198	3.1925			2.1745	47.25%								
23D0136-02	17	1.0403	6.4010	3.7100			2.6697	49.80%								
23D0136-03	18	1.0396	7.6314	4.2266			3.1870	48.35%								
23D0136-04	19	1.0362	6.0422	3.5052			2.4690	49.32%								

NOTE: Do not enter data in blue shaded cells as they are calculated fields. Green shaded cells MAY be altered if a rewigh is called for.

TOTAL SOLIDS (TS) BENCHSHEET for Solid samples

Method: Total Solids, Metals Correction

dry at 104°C (12-24 hr)

Batch:	BLD0746
Date:	4/28/2023 15:50
Analyst:	ml

Instrumentation

Drying Oven:	7	**Analytical Balance:**	10

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	4/27/2023 16:50	
date/time out:	4/28/2023 15:47	
elapsed hrs =	22.9	OK

Temp in: 104 °C

Temp out: 106 °C

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Sample ID	Tare Weight (g)	Tare + Sample Weight (g)	Tare + Sample Dry Weight @ 104°C (g) 1	2	3	dry Wt (g)	TS (%)	Notes
23D0136-01	1.0050	10.0040	5.3750			4.3700	48.56%	
23D0136-03	1.0220	10.0560	5.4950			4.4730	49.51%	
23D0394-01	1.0160	10.0960	5.2190			4.2030	46.29%	
23D0394-02	1.0210	10.0190	7.5620			6.5410	72.69%	
23D0394-03	1.0200	10.0520	7.4960			6.4760	71.70%	
23D0394-04	1.0040	10.0360	7.5750			6.5710	72.75%	
23D0394-05	1.0230	10.0090	5.4400			4.4170	49.15%	
23D0394-06	1.0160	10.0650	9.2290			8.2130	90.76%	
23D0394-07	1.0080	10.0700	8.8200			7.8120	86.21%	
23D0394-08	1.0000	10.0720	7.9530			6.9530	76.64%	
23D0394-09	0.9850	10.0430	8.2160			7.2310	79.83%	
23D0394-10	1.0250	10.0890	8.0580			7.0330	77.59%	
23D0394-11	1.0030	10.0130	7.5760			6.5730	72.95%	
23D0394-12	0.9980	10.0480	7.9510			6.9530	76.83%	
23D0394-13	0.9850	10.0730	7.6270			6.6420	73.09%	
23D0396-01	1.0090	10.0260	5.3790			4.3700	48.46%	
23D0396-03	0.9860	10.0260	5.2990			4.3130	47.71%	
23D0420-01	1.0060	10.0250	9.8650			8.8590	98.23%	
23D0421-01	1.0210	10.0060	9.9270			8.9060	99.12%	

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0215
Laboratory ID: BLD0215-BLK1
Prepared: 04/07/23 14:56
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 04/07/23 14:58
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/07/23 14:56	2	28	04/07/23 14:58	2	28	
LDW23-SC1804 23D0136-02	04/05/23 12:15	04/06/23 10:30	04/07/23 14:56	2	28	04/07/23 14:58	2	28	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/07/23 14:56	1	28	04/07/23 14:58	2	28	
LDW23-SC1803 23D0136-04	04/05/23 16:30	04/06/23 10:30	04/07/23 14:56	1	28	04/07/23 14:58	2	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 C	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	04/28/23 15:38	File ID:	XDT_m1230511-125
% Solids:	47.25	Preparation:	SWN EPA 3050B	Analyzed:	05/11/23 22:35
Batch:	BLD0687	Sequence:	SLE0209	Initial/Final:	1.003 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00042

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	19.3	20	0.08	0.42	
7440-43-9	Cadmium	0.41	20	0.06	0.21	
7440-50-8	Copper	80.1	20	0.37	1.05	
7440-66-6	Zinc	179	20	6.2	12.7	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 C	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	04/28/23 15:38	File ID:	XDT_m1230511-126
% Solids:	48.35	Preparation:	SWN EPA 3050B	Analyzed:	05/11/23 22:40
Batch:	BLD0687	Sequence:	SLE0209	Initial/Final:	1.002 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00042

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	17.2	20	0.08	0.41	
7440-43-9	Cadmium	0.48	20	0.06	0.21	
7440-50-8	Copper	72.6	20	0.36	1.03	
7440-66-6	Zinc	135	20	6.0	12.4	

PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Batch:	BLD0687	Batch Matrix:	Solid	Preparation:	SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	XDT_m1230511-125	04/28/23 15:38	
LDW23-SS1803	23D0136-03	XDT_m1230511-126	04/28/23 15:38	
Blank	BLD0687-BLK1	XDT_m1230509a-069	04/28/23 15:38	
Blank	BLD0687-BLK2	XDT_m1230510A-031	04/28/23 15:38	Added 5/11/2023 by MCB
LCS	BLD0687-BS1	XDT_m1230509a-070	04/28/23 15:38	
LCS	BLD0687-BS2	XDT_m1230510A-033	04/28/23 15:38	Added 5/11/2023 by MCB

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: AR Date: 04/28/23 Time: 1016 - 1538 Balance ID: BAL10

Matrix: Soil Block ID: #16 Block Temp: 96C Thermometer: 20-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
23D136-01	C		1.003	50			
-03			1.002				
23D394-01			1.018				
-02	B		1.051				
-03			1.058				
-04	C		1.065				
-05			1.012				
-06			1.074				
-07			1.019				
-08			1.039				
-09			1.018				
-10			1.036				
-11			1.033				
-12	B		1.008				
-13	C		1.087				
23D396-01			1.033				
-03			1.030				
BLD087-blk	—		—				23D394-01
-bs	—		—				
-dup	—		1.016				
-MS	—		1.019				
-MSD	—		1.014				
23D37-02	D		1.063				
-04			1.012				
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Chemical/Reagent ID:

HNO_3: L4188 1:1 HNO_3: L4206 HCl: — H_2O_2: K11056

Tube Lot#: 2210117 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23D0136

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

Batch: BLD0687 | Laboratory ID: BLD0687-BLK1 | Prepared: 04/28/23 15:38

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 05/09/23 21:43

Sequence: SLE0163 | Calibration: GE00034 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	20	0.04	0.20	U
7440-43-9	Cadmium-111	ND	20	0.03	0.10	U
7440-50-8	Copper-63	ND	20	0.17	0.50	U

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Batch:	BLD0687	Laboratory ID:	BLD0687-BLK2	Prepared:	04/28/23 15:38
Matrix:	Solid	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 17:54
Sequence:	SLE0204	Calibration:	GE00040	Instrument:	ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-66-6	Zinc-66	ND	20	2.9	6.0	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/09/23 21:48
Batch:	BLD0687	Laboratory ID:	BLD0687-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	24.9		99.6	80 - 120
Cadmium-111	25.0	25.7		103	80 - 120
Copper-63	25.0	28.5		114	80 - 120

* Indicates values outside of QC limits

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/10/23 18:05
Batch:	BLD0687	Laboratory ID:	BLD0687-BS2
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Zinc-66	80.0	81.1		101	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00034	Instrument:	ICPMS1
Calibration Date:	05/09/2023 15:21		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	15550	10	15277.5	20	14954	50	14450.62	100	14213.3
Chromium-52	0	0	0.5	52696	10	25665.6	20	24896	50	23824.18	100	24100.37
Chromium-53	0	0	0.5	3292	10	2783.5	20	2747.15	50	2666.92	100	2605
Lead-208	0	0	0.1	92440	10	87764.4	20	87636.2	50	89109.48	100	87067.5

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00034
Calibration Date: 5/9/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	12407.57	49.2	0.9998		0.998	
Chromium-52	25197.03	66.3	0.9999		0.998	
Chromium-53	2349.095	50.1	0.9998		0.998	
Lead-208	74002.93	49.1	0.9999		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00034
Instrument: ICPMS1
Calibration Date: 05/09/2023 15:21

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	320	10	322.8	20	320.65	50	311.22	100	307.61
Cadmium-111	0	0	0.1	410	10	339.5	20	330.1	50	318.02	100	310.93
Cadmium-114	0	0	0.1	710	10	853.7	20	856.85	50	805.66	100	787.91
Copper-63	0	0	0.5	5830	10	4715.1	20	4670.7	50	4392.22	100	4224.14
Copper-65	0	0	0.5	3004	10	2368.8	20	2341.65	50	2245.14	100	2145.83
Zinc-66	0	0	6	643.5	10	673.3	20	638.85	50	607.58	100	582.37
Zinc-67	0	0	6	96.83334	10	106.1	20	105.2	50	97.46	100	97.08

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00034
Calibration Date: 5/9/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	263.7133	49.0	0.9999		0.998	
Cadmium-111	284.7583	50.6	0.9998		0.998	
Cadmium-114	669.02	49.6	0.9996		0.998	
Copper-63	3972.027	51.0	0.9994		0.998	
Copper-65	2017.57	51.2	0.9993		0.998	
Zinc-66	524.2667	49.4	0.9994		0.998	
Zinc-67	83.77889	49.2	0.9997		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MB **Sequence:** SLEΦ163 **Cal:** GEΦΦΦ34

All corrections made by analyst unless otherwise noted. MB 5/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	L5224		
		~~-CAL3~~ CAL2	L5225		
		-CAL3	L5226		
		-CAL4	L5227		
		-CAL5	L5228		
		-CAL6	L5229		
		-IBL1	—		
		-ICV1	L3575		
	✓	-ICB1	—		Std Mode noisy
		-ICB1	L5224		
		-CCV1	L5228		
	✓	-CCB1	—		Std Mode noisy
		-CCB1	L5224		
		-CRL1	L5225		
	✓	-IFA1	—		Std Mode noisy
		-IFB1	L4689		
		-IFA1	L4688		Cr^{53} ↑
	✓	-HCV1	—		Ba^{137} ↓
		-HCV2	L4781		
		-HCV1	L4780		
		-IBL2	—		
		-IBL3	—		
		-CCV2			
		-CCB2			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MS 5/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLEΦ256-BLK1	REN		
		↓ -BS1			Ge noisy - %R, Values + Analytes OK
		23EΦ192-Φ1		5	
		23EΦ179-Φ1		2	Sc, In, Tb noisy - %R + Analytes OK
		23EΦ141-Φ1		5	
		23EΦΦ96-Φ1		2	
		23DΦ453-Φ1	↓	↓	Ge, In-1 ↓ Cd, Cu, Ni, Zn NR
		SEQ-IBL4			
		23DΦ595-Φ1	REN	20	Zn↑ Zn NR
		SEQ-IBL5			
		-CCV3			Ba137 ↓ - Not Needed
		-CCB3			
	✓	-CAL1			Al, Co, Mo, Se Removed
		-CCV4			Ba137 ↓
		-CCB4			
		BLEΦ119-BLK1	REN		
	✓	↓ -BS1			Ge noisy
		↓ -BS1			
		BLEΦ134-BLK2			As, Cd, Cr, Ni, Pb only
		↓ -BS2	↓		↓
		23DΦ297-Φ8	SWN	100	Cr only
		23AΦ42D-Φ7	↓	↓	↓
		23DΦ595-ΦIRE1	REN	↓	Zn only
		23DΦ453-ΦIRE1	↓	10	Cd, Cu, Ni, Zn only

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 5/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL6			
		-CCV5			Ba 137↓
		-CCB5			
		23CΦ715-Φ2	REN	5	Cr only
		-Φ4		50	
		23CΦ69Φ-Φ8		↓	
		-1Φ		20	
		-Φ4		10	
		230Φ514-Φ5		5	Sc↑/Mn↑ Ag, Cd, Ni only
		BLEΦΦ78-DUP2			Ge noisy - %R + Analytes O/C/Values match parent.
		-MS2			Ag %R↓
		-MSD2			
		SEQ-IBL7			
		-CCV6			
		-CCB6			
✓		-CAL1			Sc, Tb noisy
✓		~~-CCV7~~CAL1			Ag, Ba, Mn Removed
		-CCV7			
		-CCB7			
		BLDΦ687-BLK1	SWN	20	Zn↑ (33.926 / 32.362) - Re-run to Confirm No Zn
		-BS1	↓	↓	
		BLEΦ208-BLK1	REN		Cu only
		-BS1			
		-SRL1		5	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 5/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ242-Φ5REI	REN		Sc↑ - Not Needed — Cu only
		BLEΦ2Φ8 - DUP1	↓		↓ ↓ ↓
		↓ -MS1	↓		
		↓ -PS1	↓		Cu Conc K4709 ↓ ↓ ↓
		SEQ-IBL8			
		↓ -CCV8			
		↓ -CCB8			
		BLEΦ125-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		230Φ233-~~Φ7~~REI	REN		Cu only
		230Φ234-Φ7REI	↓		↓
		230Φ241-Φ2REI	↓		Sc↑ - Not Needed
		↓ -Φ4REI	↓		↓ ↓
		230Φ242-Φ2REI	↓		
		↓ -Φ4REI	↓		Sc↑ - Not Needed ↓
		230Φ3Φ6-Φ1	↓	2	Cr only
		SEQ-IBL9			
		↓ -CCV9			
		↓ -CCB9			
		230Φ393-Φ9	SWN	20	Sc↑ - Not Needed
		↓ -13	↓	↓	
		-14	↓	↓	
		-2Φ	↓	↓	Sc↑ - Not Needed
		↓ -Φ7	↓	↓	↓ ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLEΦ125-DUP1	SWN	20	Sc↑ - Not Needed
		-MS1	↓	↓	↓ ↓ /As STL ↓
		-MSD1	↓	↓	↓
		-PS1	↓	↓	60mL K7409 / ↓ ↓
		SEQ-IBLA			
		-CCVA			
		-CCBA			
		230Φ393-21	SWN	20	Sc↑ - Not Needed
		-23	↓	↓	↓ ↓
		230Φ394-Φ3	↓	↓	↓
		-Φ5	↓	↓	↓
		-Φ1	↓	↓	No Cr, Pb, Zn
		BLDΦ687-DUP1	↓	↓	↓
		-MS1	↓	↓	↓
		-MSD1	↓	↓	↓
		-PS1	↓	↓	60mL K7409 / Sc↑ ↓
		SEQ-IBLB			
		-CCVB			
		-CCBB			Pb noisy
	✓	230Φ394-Φ7	SWN	20	Sc↑ - Not Needed
		-Φ9	↓	↓	↓ ↓
		-1Φ	↓	↓	↓
	✓	-13	↓	↓	
		230Φ348-Φ1	REN	↓	No Pb

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MS **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLC			
		23D0376-01	REN	100	Cr only
		23D0424-01	↓	5	Zn only
		23D0374-03	↓	2	Cd, Cu only
		SEQ-IBL0			
		↓ -CCVC			Pb?
		↓ -CCBC			
		23D0513-03	REN		
		23D0452-01	↓	2	No Pb
		23D0462-01	↓	↓	↓
		23D0480-01	↓	↓	Ge, In⁻¹ ↓ Cr only
		SEQ-IBLE			
		23D0442-02	REN	20	Cr only
		BLE0054-DUP3	↓	↓	↓
		↓ -MS3	↓	↓	↓
		↓ -MSD3	↓	↓	↓
		SEQ-IBLF			
		↓ -CCVD			
		↓ -CCBD			
		23D0537-05	REN		Sc↑ No Cr
		BLE0120-DUP2	↓		↓ ↓
		↓ -MS2	↓		↓ ↓
		↓ -MSD2	↓		↓ ↓
		SEQ-IBLG			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/9/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 5/9/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ464-Φ2	REN	20	Pb only
		↓ -Φ1	↓		↓
		230Φ516-Φ1	↓		Sc† - Not Needed
		↓ -Φ2	↓		↓ ↓ ↓
		SEQ-IBLH			
		↓ -CCVE			
		↓ -CCBE			
		230Φ463-Φ1	REN		Pb only
		↓ -Φ2	↓		Sc† - Not Needed ↓
		↓ -Φ3	↓		↓
		230Φ477-Φ5	↓	5	
		↓ -17	↓	2	
		↓ -19	↓	↓	
		BLEΦΦ77-DUP1	↓	↓	
	OK ✓	↓ -MS1	↓	↓	Ge noisy Pb only
		↓ -MSD1	↓	↓	
		SEQ-IBLI			
		↓ -CCVF			
		↓ -CCBF			
					Remaining CV tubes empty -
					End of usable data
		MB	5/9/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, May 09, 2023 12:18:16
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.134
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9586.5	9586.549	68.777	0.7	Standard
	In	114.9	71985.5	71985.472	993.919	1.4	Standard
	U	238.1	96089.6	96089.638	954.703	1.0	Standard
⌈	CeO	155.9	2059.6	0.020	0.000	2.4	Standard
| >	Ce	139.9	102412.2	102412.184	475.304	0.5	Standard
⌊	Ce++	70.0	977.8	0.010	0.000	2.3	Standard
	Bkgd	220.0	0.5	0.467	0.183	39.1	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/9/2023 12:18:11 PM
End Time: 5/9/2023 12:24:32 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9586.55
Obtained Intensity (In 115): 71985.47
Obtained Intensity (U 238): 96089.64
Obtained Intensity (Bkgd 220): 0.47
Obtained Formula (Ce++ 70 / Ce 140): 0.010 (=977.83 / 102412.18)
Obtained Formula (CeO 156 / Ce 140): 0.020 (=2059.62 / 102412.18)
Obtained RSD (Be 9): 0.0072
Obtained RSD (In 115): 0.0138
Obtained RSD (U 238): 0.0099

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/9/2023 12:18:11 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 9586.55
Obtained Intensity (In 115): 71985.47
Obtained Intensity (U 238): 96089.64
Obtained Intensity (Bkgd 220): 0.47
Obtained Formula (Ce++ 70 / Ce 140): 0.010 (=977.83 / 102412.18)
Obtained Formula (CeO 156 / Ce 140): 0.020 (=2059.62 / 102412.18)
Obtained RSD (Be 9): 0.0072
Obtained RSD (In 115): 0.0138
Obtained RSD (U 238): 0.0099

[Passed] Optimum value(s): N/A

Torch Alignment

Optimization Settings:

Method: Torch Alignment.mth.
Intensity Criterion: In 115 Maximum

Optimization Results:

[Cancelled]

End Time: 5/9/2023 12:24:32 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, May 09, 2023 12:31:48
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.141
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	11009.8	11009.842	178.493	1.6	Standard
	In	114.9	77649.3	77649.347	893.969	1.2	Standard
	U	238.1	102175.4	102175.448	1799.462	1.8	Standard
⌈	CeO	155.9	2593.5	0.024	0.000	2.1	Standard
| >	Ce	139.9	110114.7	110114.713	947.804	0.9	Standard
⌊	Ce++	70.0	1356.3	0.012	0.000	1.9	Standard
	Bkgd	220.0	0.5	0.467	0.139	29.9	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/9/2023 12:24:37 PM
End Time: 5/9/2023 12:33:53 PM

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.78 mm	0.99 mm	75718.13

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.92
Obtained Intensity (In 115): 85176.17
Obtained Formula (CeO 156 / Ce 140): 0.0219 (=2374.20 / 108222.38)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.691)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.693)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -14.40

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.995; Intercept = -13.81

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 11009.84
Obtained Intensity (In 115): 77649.35
Obtained Intensity (U 238): 102175.45
Obtained Intensity (Bkgd 220): 0.47
Obtained Formula (Ce++ 70 / Ce 140): 0.012 (=1356.26 / 110114.71)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=2593.50 / 110114.71)
Obtained RSD (Be 9): 0.0162
Obtained RSD (In 115): 0.0115
Obtained RSD (U 238): 0.0176

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/9/2023 12:24:37 PM

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.78 mm	0.99 mm	75718.13

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 85176.17
		Obtained Formula (CeO 156 / Ce 140): 0.0219 (=2374.20 / 108222.38)
[Passed] Optimum value(s): 0.92

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.691)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.710)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.693)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.997; Intercept = -14.40

	Analyte	Mass	Points	DAC	MaxIntensity

Li	7	41	-14.5	55363.1
Mg	24	41	-14.5	53532.1
In	115	41	-13	82332.6
Ce	140	41	-12	113235
Pb	208	41	-11	58262.6
U	238	41	-11.5	105395

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.995; Intercept = -13.81

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14	37068
Mg	24	41	-14	57523.6
In	115	41	-12	121119
Ce	140	41	-11	119203
Pb	208	41	-10.5	54174.5
U	238	41	-10.5	126490

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.

Intensity Criterion: Be 9 > 2000

Intensity Criterion: In 115 > 40000

Intensity Criterion: U 238 > 30000

Intensity Criterion: Bkgd 220 <= 5

Formula Criterion: Ce++ 70 / Ce 140 <= 0.03

Formula Criterion: CeO 156 / Ce 140 <= 0.025

RSD Criterion: Be 9.0122 < 0.05

RSD Criterion: In 114.904 < 0.05

RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 11009.84

Obtained Intensity (In 115): 77649.35

Obtained Intensity (U 238): 102175.45

Obtained Intensity (Bkgd 220): 0.47

Obtained Formula (Ce++ 70 / Ce 140): 0.012 (=1356.26 / 110114.71)

Obtained Formula (CeO 156 / Ce 140): 0.024 (=2593.50 / 110114.71)

Obtained RSD (Be 9): 0.0162

Obtained RSD (In 115): 0.0115

Obtained RSD (U 238): 0.0176

[Passed] Optimum value(s): N/A

End Time: 5/9/2023 12:33:53 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:21:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				41563	2	Standard
>	**Sc**	**45**		ug/L				330809	3	Standard
	Al	**27**		ug/L				2334	3	Standard
	Cr	**52**		ug/L				13927	3	Standard
	Cr	**53**		ug/L				305	13	Standard
	Mn	**55**		ug/L				504	10	Standard
>	**Ge**	**72**		ug/L				39846	0	KED
	Co	**59**		ug/L				61	115	KED
	Ni	**60**		ug/L				59	45	KED
	Ni	**62**		ug/L				10	61	KED
	Cu	**63**		ug/L				67	77	KED
	Cu	**65**		ug/L				26	67	KED
	Zn	**66**		ug/L				22	39	KED
	Zn	**67**		ug/L				3	91	KED
	As	**75**		ug/L				5	52	KED
	Se	**78**		ug/L				11	15	KED
	Kr	**83**		ug/L				53	4	Standard
>	**In-1**	**115**		ug/L				9311	3	KED
	Mo	**98**		ug/L				10	35	KED
	Cd	**111**		ug/L				2	24	KED
	Cd	**114**		ug/L				8	36	KED
>	**In**	**115**		ug/L				399419	5	Standard
	Ag	**107**		ug/L				46	27	Standard
	Ba	**135**		ug/L				15	25	Standard
	Ba	**137**		ug/L				37	10	Standard
>	**Tb**	**159**		ug/L				173053	2	Standard
	Pb	**208**		ug/L				201	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:26:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	42798	0	Standard
⌈>	**Sc**	**45**		ug/L			330809	347123	0	Standard
|	**Al**	**27**	**20.000**	ug/L	0.473	2	2334	510670	1	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.011	2	13927	26348	0	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.027	5	305	1646	5	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.008	1	504	17661	0	Standard
⌈>	**Ge**	**72**		ug/L			39846	39869	1	KED
|	**Co**	**59**	**0.200**	ug/L	0.010	4	61	1193	4	KED
|	**Ni**	**60**	**0.500**	ug/L	0.020	4	59	852	4	KED
|	**Ni**	**62**	**0.500**	ug/L	0.017	3	10	130	3	KED
|	**Cu**	**63**	**0.500**	ug/L	0.007	1	67	2915	2	KED
|	**Cu**	**65**	**0.500**	ug/L	0.011	2	26	1502	1	KED
|	**Zn**	**66**	**6.000**	ug/L	0.234	3	22	3861	3	KED
|	**Zn**	**67**	**6.000**	ug/L	0.179	2	3	581	2	KED
|	**As**	**75**	**0.200**	ug/L	0.025	12	5	64	11	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.078	15	11	24	7	KED
	Kr	**83**		ug/L			53	56	5	Standard
⌈>	**In-1**	**115**		ug/L			9311	9467	1	KED
|	**Mo**	**98**	**0.200**	ug/L	0.005	2	10	301	2	KED
|	**Cd**	**111**	**0.100**	ug/L	0.019	19	2	41	19	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.010	9	8	71	7	KED
⌈>	**In**	**115**		ug/L			399419	418159	0	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.001	0	46	3110	0	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.026	5	15	2765	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.011	2	37	5223	1	Standard
⌈>	**Tb**	**159**		ug/L			173053	178365	0	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.001	0	201	9244	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:30:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	45757	1	Standard
⌈>	**Sc**	**45**		ug/L			330809	352525	1	Standard
|	**Al**	**27**	**1000.010**	ug/L	30.286	3	2334	26468702	2	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.380	3	13927	256656	2	Standard
|	**Cr**	**53**	**10.001**	ug/L	0.246	2	305	27835	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.200	1	504	354551	1	Standard
⌈>	**Ge**	**72**		ug/L			39846	40554	1	KED
|	**Co**	**59**	**10.000**	ug/L	0.201	2	61	57570	1	KED
|	**Ni**	**60**	**10.001**	ug/L	0.381	3	59	17107	2	KED
|	**Ni**	**62**	**10.001**	ug/L	0.245	2	10	2591	1	KED
|	**Cu**	**63**	**9.994**	ug/L	0.252	2	67	47151	1	KED
|	**Cu**	**65**	**9.993**	ug/L	0.097	0	26	23688	0	KED
|	**Zn**	**66**	**10.081**	ug/L	0.410	4	22	6733	2	KED
|	**Zn**	**67**	**10.198**	ug/L	0.331	3	3	1061	2	KED
|	**As**	**75**	**10.000**	ug/L	0.232	2	5	3228	0	KED
⌊	**Se**	**78**	**10.004**	ug/L	0.511	5	11	324	4	KED
	Kr	**83**		ug/L			53	57	8	Standard
⌈>	**In-1**	**115**		ug/L			9311	9322	2	KED
|	**Mo**	**98**	**10.000**	ug/L	0.399	3	10	15075	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.264	2	2	3395	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.282	2	8	8537	1	KED
⌈>	**In**	**115**		ug/L			399419	423194	2	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.180	1	46	152775	1	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.335	3	15	54787	0	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.179	1	37	104428	1	Standard
⌈>	**Tb**	**159**		ug/L			173053	183421	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.099	0	201	877644	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:36:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	47595	3	Standard
⌈>	**Sc**	**45**		ug/L			330809	351739	1	Standard
|	**Al**	**27**	**2000.805**	ug/L	34.694	1	2334	52926238	1	Standard
|	**Cr**	**52**	**20.004**	ug/L	0.381	1	13927	497920	1	Standard
|	**Cr**	**53**	**19.979**	ug/L	0.398	1	305	54943	1	Standard
⌊	**Mn**	**55**	**20.010**	ug/L	0.446	2	504	708686	1	Standard
⌈>	**Ge**	**72**		ug/L			39846	40958	0	KED
|	**Co**	**59**	**19.897**	ug/L	0.485	2	61	113307	1	KED
|	**Ni**	**60**	**19.844**	ug/L	0.317	1	59	33205	0	KED
|	**Ni**	**62**	**20.073**	ug/L	0.428	2	10	5320	2	KED
|	**Cu**	**63**	**19.922**	ug/L	0.288	1	67	93414	0	KED
|	**Cu**	**65**	**19.913**	ug/L	0.369	1	26	46833	1	KED
|	**Zn**	**66**	**19.726**	ug/L	0.119	0	22	12777	1	KED
|	**Zn**	**67**	**20.012**	ug/L	0.361	1	3	2104	1	KED
|	**As**	**75**	**19.936**	ug/L	0.225	1	5	6413	0	KED
⌊	**Se**	**78**	**20.063**	ug/L	0.208	1	11	653	0	KED
	Kr	**83**		ug/L			53	40	50	Standard
⌈>	**In-1**	**115**		ug/L			9311	9471	1	KED
|	**Mo**	**98**	**19.891**	ug/L	0.453	2	10	29817	0	KED
|	**Cd**	**111**	**19.822**	ug/L	0.606	3	2	6602	2	KED
⌊	**Cd**	**114**	**19.951**	ug/L	0.173	0	8	17137	1	KED
⌈>	**In**	**115**		ug/L			399419	429169	0	Standard
|	**Ag**	**107**	**19.856**	ug/L	0.529	2	46	299080	2	Standard
|	**Ba**	**135**	**20.009**	ug/L	0.126	0	15	111436	0	Standard
⌊	**Ba**	**137**	**19.925**	ug/L	0.122	0	37	207952	0	Standard
⌈>	**Tb**	**159**		ug/L			173053	183959	0	Standard
⌊	**Pb**	**208**	**19.983**	ug/L	0.203	1	201	1752724	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:41:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	44736	2	Standard
⌈>	**Sc**	**45**		ug/L			330809	349834	2	Standard
|	**Al**	**27**	**5002.670**	ug/L	85.281	1	2334	131936826	0	Standard
|	**Cr**	**52**	**49.828**	ug/L	0.750	1	13927	1191209	1	Standard
|	**Cr**	**53**	**49.818**	ug/L	0.724	1	305	133346	1	Standard
⌊	**Mn**	**55**	**49.804**	ug/L	0.314	0	504	1720189	2	Standard
⌈>	**Ge**	**72**		ug/L			39846	38077	3	KED
|	**Co**	**59**	**50.393**	ug/L	1.802	3	61	277406	0	KED
|	**Ni**	**60**	**50.261**	ug/L	1.344	2	59	80152	1	KED
|	**Ni**	**62**	**50.388**	ug/L	1.324	2	10	12894	2	KED
|	**Cu**	**63**	**50.072**	ug/L	1.547	3	67	219611	0	KED
|	**Cu**	**65**	**50.227**	ug/L	1.888	3	26	112257	1	KED
|	**Zn**	**66**	**50.095**	ug/L	1.624	3	22	30379	0	KED
|	**Zn**	**67**	**49.990**	ug/L	3.682	7	3	4873	5	KED
|	**As**	**75**	**50.336**	ug/L	1.209	2	5	15561	1	KED
⌊	**Se**	**78**	**50.148**	ug/L	0.560	1	11	1525	3	KED
	Kr	**83**		ug/L			53	56	3	Standard
⌈>	**In-1**	**115**		ug/L			9311	9162	4	KED
|	**Mo**	**98**	**50.124**	ug/L	2.310	4	10	73507	0	KED
|	**Cd**	**111**	**49.897**	ug/L	1.611	3	2	15901	0	KED
⌊	**Cd**	**114**	**49.751**	ug/L	2.030	4	8	40283	0	KED
⌈>	**In**	**115**		ug/L			399419	409733	3	Standard
|	**Ag**	**107**	**50.048**	ug/L	1.939	3	46	722531	0	Standard
|	**Ba**	**135**	**50.484**	ug/L	2.046	4	15	281808	1	Standard
⌊	**Ba**	**137**	**50.201**	ug/L	1.586	3	37	510053	0	Standard
⌈>	**Tb**	**159**		ug/L			173053	182863	1	Standard
⌊	**Pb**	**208**	**50.182**	ug/L	0.587	1	201	4455474	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:48:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	47319	1	Standard
⌈>	**Sc**	**45**		ug/L			330809	347968	1	Standard
|	**Al**	**27**	**9993.856**	ug/L	146.775	1	2334	261673101	0	Standard
|	**Cr**	**52**	**100.449**	ug/L	0.719	0	13927	2410037	0	Standard
|	**Cr**	**53**	**99.516**	ug/L	1.213	1	305	260500	2	Standard
⌊	**Mn**	**55**	**100.210**	ug/L	1.155	1	504	3466669	2	Standard
⌈>	**Ge**	**72**		ug/L			39846	38576	1	KED
|	**Co**	**59**	**99.502**	ug/L	0.924	0	61	546242	1	KED
|	**Ni**	**60**	**99.028**	ug/L	1.562	1	59	154979	0	KED
|	**Ni**	**62**	**98.838**	ug/L	3.763	3	10	24662	2	KED
|	**Cu**	**63**	**98.803**	ug/L	1.257	1	67	422414	1	KED
|	**Cu**	**65**	**98.726**	ug/L	1.132	1	26	214583	1	KED
|	**Zn**	**66**	**98.730**	ug/L	1.593	1	22	58237	0	KED
|	**Zn**	**67**	**99.578**	ug/L	0.802	0	3	9708	0	KED
|	**As**	**75**	**99.575**	ug/L	1.193	1	5	30761	0	KED
⌊	**Se**	**78**	**98.973**	ug/L	1.063	1	11	2939	2	KED
	Kr	**83**		ug/L			53	64	15	Standard
⌈>	**In-1**	**115**		ug/L			9311	9233	2	KED
|	**Mo**	**98**	**99.424**	ug/L	2.178	2	10	144285	0	KED
|	**Cd**	**111**	**99.240**	ug/L	2.879	2	2	31093	0	KED
⌊	**Cd**	**114**	**99.174**	ug/L	2.885	2	8	78791	0	KED
⌈>	**In**	**115**		ug/L			399419	407313	4	Standard
|	**Ag**	**107**	**99.778**	ug/L	3.274	3	46	1421330	1	Standard
|	**Ba**	**135**	**98.997**	ug/L	2.050	2	15	531703	2	Standard
⌊	**Ba**	**137**	**99.876**	ug/L	2.237	2	37	1004628	2	Standard
⌈>	**Tb**	**159**		ug/L			173053	182429	0	Standard
⌊	**Pb**	**208**	**99.600**	ug/L	2.205	2	201	8706750	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 15:55:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	41474	0	Standard
⌈>	**Sc**	**45**		ug/L			330809	337191	2	Standard
|	**Al**	**27**	**0.037**	ug/L	0.020	52	2334	3320	16	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.012	558	13927	14239	1	Standard
|	**Cr**	**53**	**-0.012**	ug/L	0.005	43	305	281	2	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	48	504	571	2	Standard
⌈>	**Ge**	**72**		ug/L			39846	39354	1	KED
|	**Co**	**59**	**-0.008**	ug/L	0.002	27	61	13	90	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.003	20	59	34	14	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.016	225	10	8	44	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.001	16	67	29	19	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	144	26	23	12	KED
|	**Zn**	**66**	**0.027**	ug/L	0.014	50	22	38	21	KED
|	**Zn**	**67**	**0.000**	ug/L	0.011	3252	3	3	34	KED
|	**As**	**75**	**0.004**	ug/L	0.004	97	5	7	17	KED
⌊	**Se**	**78**	**-0.002**	ug/L	0.198	8521	11	11	55	KED
	Kr	**83**		ug/L			53	52	24	Standard
⌈>	**In-1**	**115**		ug/L			9311	9513	2	KED
|	**Mo**	**98**	**0.026**	ug/L	0.006	22	10	50	18	KED
|	**Cd**	**111**	**0.017**	ug/L	0.006	33	2	7	25	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	121	8	10	26	KED
⌈>	**In**	**115**		ug/L			399419	403042	1	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.000	13	46	90	5	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	27	15	25	11	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	70	37	49	16	Standard
⌈>	**Tb**	**159**		ug/L			173053	176176	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	13	201	379	5	Standard

Sample Information

Sample Date/Time: Tuesday, May 09, 2023 15:48:11
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Sc	45							
Al	27	**1.0000**	0.075	20.00	1000	2000	5000	10000
Cr	52	**1.0000**	0.069	0.50	10	20	50	100
Cr	53	**1.0000**	0.008	0.50	10	20	50	100
Mn	55	**1.0000**	0.099	0.50	10	20	50	100
Ge	72							
Co	59	**0.9999**	0.142	0.20	10	20	50	100
Ni	60	**0.9998**	0.041	0.50	10	20	50	100
Ni	62	**0.9997**	0.006	0.50	10	20	50	100
Cu	63	**0.9998**	0.111	0.50	10	20	50	100
Cu	65	**0.9997**	0.056	0.50	10	20	50	100
Zn	66	**0.9997**	0.015	6.00	10	20	50	100
Zn	67	**1.0000**	0.003	6.00	10	20	50	100
As	75	**0.9999**	0.008	0.20	10	20	50	100
Se	78	**0.9998**	0.001	0.50	10	20	50	100
Kr	83							
In-1	115							
Mo	98	**0.9999**	0.157	0.20	10	20	50	100
Cd	111	**0.9999**	0.034	0.10	10	20	50	100
Cd	114	**0.9999**	0.086	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.035	0.20	10	20	50	100
Ba	135	**0.9998**	0.013	0.50	10	20	50	100
Ba	137	**1.0000**	0.025	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.479	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:02:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	51030	0	Standard
⌈>	**Sc**	**45**		ug/L			330809	348289	1	Standard
|	**Al**	**27**	**5055.142**	ug/L	67.080	1	2334	132481604	0	Standard
|	**Cr**	**52**	**49.900**	ug/L	0.534	1	13927	1205645	0	Standard
|	**Cr**	**53**	**51.349**	ug/L	1.082	2	305	134661	1	Standard
⌊	**Mn**	**55**	**50.670**	ug/L	0.765	1	504	1754341	0	Standard
⌈>	**Ge**	**72**		ug/L			39846	39763	1	KED
|	**Co**	**59**	**49.745**	ug/L	0.122	0	61	281520	0	KED
|	**Ni**	**60**	**51.058**	ug/L	1.053	2	59	82393	1	KED
|	**Ni**	**62**	**51.063**	ug/L	1.423	2	10	13140	1	KED
|	**Cu**	**63**	**51.738**	ug/L	0.675	1	67	228017	0	KED
|	**Cu**	**65**	**51.510**	ug/L	0.653	1	26	115416	1	KED
|	**Zn**	**66**	**49.322**	ug/L	0.636	1	22	30000	0	KED
|	**Zn**	**67**	**50.105**	ug/L	1.472	2	3	5037	2	KED
|	**As**	**75**	**47.612**	ug/L	0.736	1	5	15163	0	KED
⌊	**Se**	**78**	**79.129**	ug/L	2.195	2	11	2424	3	KED
	Kr	**83**		ug/L			53	51	7	Standard
⌈>	**In-1**	**115**		ug/L			9311	9456	2	KED
|	**Mo**	**98**	**48.824**	ug/L	0.912	1	10	72575	0	KED
|	**Cd**	**111**	**50.002**	ug/L	1.123	2	2	16048	0	KED
⌊	**Cd**	**114**	**49.630**	ug/L	0.920	1	8	40393	0	KED
⌈>	**In**	**115**		ug/L			399419	407713	2	Standard
|	**Ag**	**107**	**51.697**	ug/L	1.768	3	46	737324	0	Standard
|	**Ba**	**135**	**51.629**	ug/L	2.097	4	15	277557	2	Standard
⌊	**Ba**	**137**	**51.335**	ug/L	2.490	4	37	516748	2	Standard
⌈>	**Tb**	**159**		ug/L			173053	182624	0	Standard
⌊	**Pb**	**208**	**51.461**	ug/L	0.294	0	201	4503392	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 09, 2023 16:09:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	41853	1	Standard
>	Sc	45		ug/L			330809	321169	12	Standard
	Al	27	0.024	ug/L	0.010	40	2334	2819	4	Standard
	Cr	52	0.036	ug/L	0.071	199	13927	14178	2	Standard
	Cr	53	-0.007	ug/L	0.015	200	305	276	5	Standard
	Mn	55	0.002	ug/L	0.002	129	504	540	1	Standard
>	Ge	72		ug/L			39846	39840	0	KED
	Co	59	-0.009	ug/L	0.001	11	61	12	48	KED
	Ni	60	-0.012	ug/L	0.005	38	59	39	20	KED
	Ni	62	-0.010	ug/L	0.019	189	10	8	58	KED
	Cu	63	-0.008	ug/L	0.003	39	67	29	48	KED
	Cu	65	-0.004	ug/L	0.002	59	26	17	26	KED
	Zn	66	0.007	ug/L	0.005	72	22	26	12	KED
	Zn	67	0.025	ug/L	0.051	199	3	5	88	KED
	As	75	-0.005	ug/L	0.003	59	5	4	22	KED
	Se	78	0.006	ug/L	0.055	989	11	11	14	KED
	Kr	83		ug/L			53	43	15	Standard
>	In-1	115		ug/L			9311	9420	1	KED
	Mo	98	0.013	ug/L	0.007	52	10	30	32	KED
	Cd	111	0.011	ug/L	0.003	25	2	5	16	KED
	Cd	114	-0.002	ug/L	0.011	680	8	6	129	KED
>	In	115		ug/L			399419	373010	11	Standard
	Ag	107	0.003	ug/L	0.002	70	46	77	24	Standard
	Ba	135	0.001	ug/L	0.001	70	15	20	30	Standard
	Ba	137	0.002	ug/L	0.001	24	37	55	3	Standard
>	Tb	159		ug/L			173053	162830	8	Standard
	Pb	208	0.002	ug/L	0.000	19	201	343	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:14:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	41843	0	Standard
⎡>	**Sc**	**45**		ug/L			330809	342999	1	Standard
⎢	**Al**	**27**	**-0.006**	ug/L	0.005	88	2334	2271	5	Standard
⎢	**Cr**	**52**	**-0.012**	ug/L	0.017	146	13927	14160	2	Standard
⎢	**Cr**	**53**	**-0.020**	ug/L	0.007	35	305	265	6	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.000	71	504	500	3	Standard
⎡>	**Ge**	**72**		ug/L			39846	39973	1	KED
⎢	**Co**	**59**	**-0.009**	ug/L	0.000	3	61	9	20	KED
⎢	**Ni**	**60**	**-0.016**	ug/L	0.004	27	59	33	21	KED
⎢	**Ni**	**62**	**0.015**	ug/L	0.015	101	10	14	27	KED
⎢	**Cu**	**63**	**-0.010**	ug/L	0.001	13	67	22	30	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.003	91	26	18	39	KED
⎢	**Zn**	**66**	**0.022**	ug/L	0.014	65	22	35	24	KED
⎢	**Zn**	**67**	**0.013**	ug/L	0.030	232	3	4	65	KED
⎢	**As**	**75**	**-0.011**	ug/L	0.002	19	5	2	32	KED
⎣	**Se**	**78**	**-0.012**	ug/L	0.077	669	11	10	21	KED
	Kr	**83**		ug/L			53	49	13	Standard
⎡>	**In-1**	**115**		ug/L			9311	9338	1	KED
⎢	**Mo**	**98**	**0.002**	ug/L	0.006	351	10	13	66	KED
⎢	**Cd**	**111**	**0.011**	ug/L	0.006	52	2	5	33	KED
⎣	**Cd**	**114**	**-0.007**	ug/L	0.001	18	8	2	45	KED
⎡>	**In**	**115**		ug/L			399419	407275	1	Standard
⎢	**Ag**	**107**	**0.000**	ug/L	0.001	2365	46	47	20	Standard
⎢	**Ba**	**135**	**0.002**	ug/L	0.001	77	15	24	27	Standard
⎣	**Ba**	**137**	**0.001**	ug/L	0.001	91	37	47	18	Standard
⎡>	**Tb**	**159**		ug/L			173053	175538	1	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	31	201	287	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:20:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	43825	1	Standard
⎡>	**Sc**	**45**		ug/L			330809	351713	1	Standard
⎢	**Al**	**27**	**5017.324**	ug/L	66.831	1	2334	132780299	1	Standard
⎢	**Cr**	**52**	**49.123**	ug/L	1.476	3	13927	1198689	2	Standard
⎢	**Cr**	**53**	**51.619**	ug/L	0.692	1	305	136698	0	Standard
⎣	**Mn**	**55**	**49.606**	ug/L	0.908	1	504	1734249	0	Standard
⎡>	**Ge**	**72**		ug/L			39846	40000	1	KED
⎢	**Co**	**59**	**48.873**	ug/L	1.174	2	61	278172	0	KED
⎢	**Ni**	**60**	**49.785**	ug/L	0.823	1	59	80817	0	KED
⎢	**Ni**	**62**	**50.064**	ug/L	1.069	2	10	12960	0	KED
⎢	**Cu**	**63**	**50.263**	ug/L	1.422	2	67	222822	2	KED
⎢	**Cu**	**65**	**50.231**	ug/L	0.497	0	26	113218	1	KED
⎢	**Zn**	**66**	**50.271**	ug/L	0.721	1	22	30759	0	KED
⎢	**Zn**	**67**	**50.586**	ug/L	2.193	4	3	5113	2	KED
⎢	**As**	**75**	**49.273**	ug/L	0.700	1	5	15785	0	KED
⎣	**Se**	**78**	**50.457**	ug/L	1.106	2	11	1558	1	KED
	Kr	**83**		ug/L			53	58	29	Standard
⎡>	**In-1**	**115**		ug/L			9311	9554	1	KED
⎢	**Mo**	**98**	**49.118**	ug/L	0.330	0	10	73793	0	KED
⎢	**Cd**	**111**	**49.809**	ug/L	0.460	0	2	16157	0	KED
⎣	**Cd**	**114**	**49.890**	ug/L	0.661	1	8	41037	0	KED
⎡>	**In**	**115**		ug/L			399419	420946	0	Standard
⎢	**Ag**	**107**	**50.017**	ug/L	0.387	0	46	737019	0	Standard
⎢	**Ba**	**135**	**48.935**	ug/L	1.070	2	15	271777	1	Standard
⎣	**Ba**	**137**	**49.517**	ug/L	1.055	2	37	515090	1	Standard
⎡>	**Tb**	**159**		ug/L			173053	183933	0	Standard
⎣	**Pb**	**208**	**50.246**	ug/L	0.471	0	201	4428518	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:27:45

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	41468	2	Standard
>	Sc	45		ug/L			330809	325907	10	Standard
	Al	27	0.264	ug/L	0.444	168	2334	9241	128	Standard
	Cr	52	0.030	ug/L	0.049	165	13927	14310	3	Standard
	Cr	53	-0.010	ug/L	0.013	124	305	274	11	Standard
	Mn	55	0.006	ug/L	0.007	122	504	687	40	Standard
>	Ge	72		ug/L			39846	40680	0	KED
	Co	59	-0.009	ug/L	0.001	7	61	9	40	KED
	Ni	60	-0.013	ug/L	0.007	54	59	39	29	KED
	Ni	62	-0.013	ug/L	0.019	150	10	7	66	KED
	Cu	63	-0.004	ug/L	0.004	88	67	48	35	KED
	Cu	65	-0.004	ug/L	0.002	54	26	17	29	KED
	Zn	66	0.026	ug/L	0.022	85	22	38	35	KED
	Zn	67	0.030	ug/L	0.039	127	3	6	62	KED
	As	75	-0.004	ug/L	0.010	258	5	4	65	KED
	Se	78	-0.004	ug/L	0.091	2092	11	11	24	KED
	Kr	83		ug/L			53	49	13	Standard
>	In-1	115		ug/L			9311	9519	3	KED
	Mo	98	0.010	ug/L	0.009	89	10	26	51	KED
	Cd	111	0.012	ug/L	0.004	37	2	6	24	KED
	Cd	114	-0.006	ug/L	0.004	58	8	3	96	KED
>	In	115		ug/L			399419	387542	11	Standard
	Ag	107	0.005	ug/L	0.006	116	46	119	77	Standard
	Ba	135	0.007	ug/L	0.007	102	15	52	79	Standard
	Ba	137	0.005	ug/L	0.005	98	37	85	61	Standard
>	Tb	159		ug/L			173053	167051	11	Standard
	Pb	208	0.005	ug/L	0.005	89	201	624	67	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:32:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	42147	0	Standard
⎡>	**Sc**	**45**		ug/L			330809	340888	1	Standard
⎢	**Al**	**27**	**0.003**	ug/L	0.003	86	2334	2482	3	Standard
⎢	**Cr**	**52**	**0.001**	ug/L	0.004	592	13927	14368	1	Standard
⎢	**Cr**	**53**	**-0.015**	ug/L	0.016	108	305	277	16	Standard
⎣	**Mn**	**55**	**-0.001**	ug/L	0.001	104	504	493	6	Standard
⎡>	**Ge**	**72**		ug/L			39846	39995	1	KED
⎢	**Co**	**59**	**-0.010**	ug/L	0.000	3	61	6	31	KED
⎢	**Ni**	**60**	**-0.010**	ug/L	0.005	52	59	43	17	KED
⎢	**Ni**	**62**	**-0.020**	ug/L	0.015	76	10	5	66	KED
⎢	**Cu**	**63**	**-0.007**	ug/L	0.001	7	67	37	5	KED
⎢	**Cu**	**65**	**-0.005**	ug/L	0.001	21	26	15	13	KED
⎢	**Zn**	**66**	**0.027**	ug/L	0.006	23	22	38	11	KED
⎢	**Zn**	**67**	**0.013**	ug/L	0.022	175	3	4	49	KED
⎢	**As**	**75**	**-0.007**	ug/L	0.002	33	5	3	19	KED
⎣	**Se**	**78**	**-0.007**	ug/L	0.036	517	11	11	8	KED
	Kr	**83**		ug/L			53	47	17	Standard
⎡>	**In-1**	**115**		ug/L			9311	9242	1	KED
⎢	**Mo**	**98**	**0.002**	ug/L	0.003	138	10	14	32	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.013	258	2	3	108	KED
⎣	**Cd**	**114**	**-0.005**	ug/L	0.004	78	8	3	90	KED
⎡>	**In**	**115**		ug/L			399419	405205	1	Standard
⎢	**Ag**	**107**	**-0.001**	ug/L	0.001	120	46	38	27	Standard
⎢	**Ba**	**135**	**0.001**	ug/L	0.000	19	15	22	4	Standard
⎣	**Ba**	**137**	**0.001**	ug/L	0.001	81	37	48	17	Standard
⎡>	**Tb**	**159**		ug/L			173053	174170	1	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	9	201	391	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:39:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	41773	0	Standard
⌈>	**Sc**	**45**		ug/L			330809	348291	1	Standard
|	**Al**	**27**	**19.792**	ug/L	0.092	0	2334	521196	1	Standard
|	**Cr**	**52**	**0.488**	ug/L	0.018	3	13927	26303	0	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.011	2	305	1655	1	Standard
⌊	**Mn**	**55**	**0.502**	ug/L	0.005	1	504	17922	1	Standard
⌈>	**Ge**	**72**		ug/L			39846	41006	0	KED
|	**Co**	**59**	**0.194**	ug/L	0.005	2	61	1194	1	KED
|	**Ni**	**60**	**0.477**	ug/L	0.028	5	59	853	4	KED
|	**Ni**	**62**	**0.513**	ug/L	0.020	3	10	147	4	KED
|	**Cu**	**63**	**0.703**	ug/L	0.023	3	67	3265	2	KED
|	**Cu**	**65**	**0.709**	ug/L	0.009	1	26	1665	1	KED
|	**Zn**	**66**	**6.199**	ug/L	0.134	2	22	3908	2	KED
|	**Zn**	**67**	**5.777**	ug/L	0.453	7	3	601	7	KED
|	**As**	**75**	**0.206**	ug/L	0.027	12	5	73	12	KED
⌊	**Se**	**78**	**0.565**	ug/L	0.190	33	11	29	19	KED
	Kr	**83**		ug/L			53	41	25	Standard
⌈>	**In-1**	**115**		ug/L			9311	9695	0	KED
|	**Mo**	**98**	**0.185**	ug/L	0.019	10	10	293	9	KED
|	**Cd**	**111**	**0.097**	ug/L	0.026	26	2	34	24	KED
⌊	**Cd**	**114**	**0.095**	ug/L	0.013	13	8	87	11	KED
⌈>	**In**	**115**		ug/L			399419	413454	3	Standard
|	**Ag**	**107**	**0.217**	ug/L	0.002	0	46	3192	3	Standard
|	**Ba**	**135**	**0.520**	ug/L	0.027	5	15	2854	5	Standard
⌊	**Ba**	**137**	**0.516**	ug/L	0.032	6	37	5303	3	Standard
⌈>	**Tb**	**159**		ug/L			173053	178882	0	Standard
⌊	**Pb**	**208**	**0.104**	ug/L	0.000	0	201	9154	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments: DEL
Sample Date/Time: Tuesday, May 09, 2023 16:44:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	178413	0	Standard
>	Sc	45		ug/L			330809	319836	10	Standard
	Al	27	20673.419	ug/L	2512.933	12	2334	493384416	1	Standard
	Cr	52	0.693	ug/L	0.143	20	13927	28445	0	Standard
	Cr	53	3.584	ug/L	0.380	10	305	8844	1	Standard
	Mn	55	0.198	ug/L	0.027	13	504	6708	2	Standard
>	Ge	72		ug/L			39846	35200	1	KED
	Co	59	0.022	ug/L	0.003	14	61	163	8	KED
	Ni	60	0.094	ug/L	0.008	8	59	186	6	KED
	Ni	62	0.150	ug/L	0.028	18	10	43	15	KED
	Cu	63	0.031	ug/L	0.005	16	67	180	11	KED
	Cu	65	0.039	ug/L	0.004	11	26	100	9	KED
	Zn	66	0.280	ug/L	0.050	17	22	170	14	KED
	Zn	67	0.311	ug/L	0.033	10	3	30	10	KED
	As	75	0.024	ug/L	0.012	51	5	12	28	KED
	Se	78	-0.058	ug/L	0.060	103	11	8	20	KED
	Kr	83		ug/L			53	127	5	Standard
>	In-1	115		ug/L			9311	8388	2	KED
	Mo	98	393.408	ug/L	9.298	2	10	518636	0	KED
	Cd	111	0.089	ug/L	0.013	14	2	27	11	KED
	Cd	114	0.053	ug/L	0.011	20	8	45	18	KED
>	In	115		ug/L			399419	421531	9	Standard
	Ag	107	0.004	ug/L	0.001	34	46	110	8	Standard
	Ba	135	0.106	ug/L	0.002	2	15	606	7	Standard
	Ba	137	0.105	ug/L	0.014	13	37	1120	4	Standard
>	Tb	159		ug/L			173053	165411	10	Standard
	Pb	208	0.025	ug/L	0.003	14	201	2125	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:49:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	175638	0	Standard
⌈>	**Sc**	**45**		ug/L			330809	339423	1	Standard
|	**Al**	**27**	**18992.057**	ug/L	45.740	0	2334	485118632	1	Standard
|	**Cr**	**52**	**19.239**	ug/L	0.158	0	13927	461816	0	Standard
|	**Cr**	**53**	**22.578**	ug/L	0.085	0	305	57886	0	Standard
⌊	**Mn**	**55**	**19.193**	ug/L	0.108	0	504	647999	0	Standard
⌈>	**Ge**	**72**		ug/L			39846	34003	1	KED
|	**Co**	**59**	**20.391**	ug/L	0.289	1	61	98695	0	KED
|	**Ni**	**60**	**20.684**	ug/L	0.321	1	59	28576	2	KED
|	**Ni**	**62**	**20.454**	ug/L	0.331	1	10	4507	2	KED
|	**Cu**	**63**	**20.310**	ug/L	0.427	2	67	76567	1	KED
|	**Cu**	**65**	**20.188**	ug/L	0.219	1	26	38689	0	KED
|	**Zn**	**66**	**19.206**	ug/L	0.248	1	22	10000	0	KED
|	**Zn**	**67**	**17.986**	ug/L	0.386	2	3	1548	2	KED
|	**As**	**75**	**18.983**	ug/L	0.260	1	5	5172	0	KED
⌊	**Se**	**78**	**0.069**	ug/L	0.056	82	11	11	14	KED
	Kr	**83**		ug/L			53	140	2	Standard
⌈>	**In-1**	**115**		ug/L			9311	7800	2	KED
|	**Mo**	**98**	**406.780**	ug/L	8.263	2	10	498752	0	KED
|	**Cd**	**111**	**19.887**	ug/L	0.241	1	2	5267	0	KED
⌊	**Cd**	**114**	**19.859**	ug/L	0.698	3	8	13335	1	KED
⌈>	**In**	**115**		ug/L			399419	458230	2	Standard
|	**Ag**	**107**	**16.458**	ug/L	0.235	1	46	263970	0	Standard
|	**Ba**	**135**	**0.100**	ug/L	0.006	6	15	619	4	Standard
⌊	**Ba**	**137**	**0.091**	ug/L	0.002	2	37	1078	4	Standard
⌈>	**Tb**	**159**		ug/L			173053	175568	1	Standard
⌊	**Pb**	**208**	**0.016**	ug/L	0.001	3	201	1560	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:54:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	170222	1	Standard
>	Sc	45		ug/L			330809	324648	2	Standard
	Al	27	19352.192	ug/L	285.516	1	2334	472726211	1	Standard
	Cr	52	0.610	ug/L	0.011	1	13927	27229	1	Standard
	Cr	53	3.638	ug/L	0.057	1	305	9175	3	Standard
	Mn	55	0.176	ug/L	0.003	1	504	6185	2	Standard
>	Ge	72		ug/L			39846	33021	1	KED
	Co	59	0.025	ug/L	0.003	14	61	168	11	KED
	Ni	60	0.098	ug/L	0.011	10	59	179	9	KED
	Ni	62	0.139	ug/L	0.007	5	10	38	5	KED
	Cu	63	0.035	ug/L	0.007	21	67	182	15	KED
	Cu	65	0.042	ug/L	0.008	19	26	99	13	KED
	Zn	66	0.318	ug/L	0.021	6	22	179	7	KED
	Zn	67	0.197	ug/L	0.069	34	3	19	30	KED
	As	75	0.021	ug/L	0.011	52	5	10	28	KED
	Se	78	-0.010	ug/L	0.158	1561	11	9	42	KED
	Kr	83		ug/L			53	132	13	Standard
>	In-1	115		ug/L			9311	7621	0	KED
	Mo	98	403.581	ug/L	2.915	0	10	483596	0	KED
	Cd	111	0.083	ug/L	0.014	16	2	23	15	KED
	Cd	114	0.072	ug/L	0.022	30	8	53	27	KED
>	In	115		ug/L			399419	454995	0	Standard
	Ag	107	0.003	ug/L	0.001	32	46	105	16	Standard
	Ba	135	0.108	ug/L	0.008	7	15	662	7	Standard
	Ba	137	0.100	ug/L	0.002	2	37	1167	2	Standard
>	Tb	159		ug/L			173053	173976	1	Standard
	Pb	208	0.024	ug/L	0.002	7	201	2168	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 16:59:26

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	48313	0	Standard
>	Sc	45		ug/L			330809	322847	0	Standard
	Al	27	19741.425	ug/L	71.368	0	2334	479639166	1	Standard
	Cr	52	198.542	ug/L	3.145	1	13927	4406890	2	Standard
	Cr	53	196.647	ug/L	0.344	0	305	477271	1	Standard
	Mn	55	201.779	ug/L	1.576	0	504	6475346	1	Standard
>	Ge	72		ug/L			39846	32623	0	KED
	Co	59	201.561	ug/L	1.970	0	61	935703	0	KED
	Ni	60	199.185	ug/L	3.001	1	59	263614	1	KED
	Ni	62	199.266	ug/L	1.436	0	10	42052	0	KED
	Cu	63	197.593	ug/L	2.018	1	67	714373	1	KED
	Cu	65	197.712	ug/L	1.492	0	26	363393	0	KED
	Zn	66	193.134	ug/L	0.267	0	22	96338	0	KED
	Zn	67	190.315	ug/L	4.102	2	3	15690	2	KED
	As	75	193.494	ug/L	1.405	0	5	50549	0	KED
	Se	78	191.006	ug/L	1.616	0	11	4787	1	KED
	Kr	83		ug/L			53	150	19	Standard
>	In-1	115		ug/L			9311	7778	1	KED
	Mo	98	201.948	ug/L	3.842	1	10	246930	0	KED
	Cd	111	194.681	ug/L	4.559	2	2	51396	0	KED
	Cd	114	197.729	ug/L	3.254	1	8	132379	0	KED
>	In	115		ug/L			399419	428093	2	Standard
	Ag	107	182.281	ug/L	4.583	2	46	2730498	1	Standard
	Ba	135	183.680	ug/L	3.486	1	15	1037101	1	Standard
	Ba	137	179.582	ug/L	3.813	2	37	1899009	0	Standard
>	Tb	159		ug/L			173053	172141	1	Standard
	Pb	208	205.647	ug/L	3.213	1	201	16960392	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:04:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	52276	0	Standard
⎡>	**Sc**	**45**		ug/L			330809	313429	3	Standard
⎢	**Al**	**27**	**31005.746**	ug/L	562.243	1	2334	731037211	1	Standard
⎢	**Cr**	**52**	**303.658**	ug/L	3.359	1	13927	6535199	2	Standard
⎢	**Cr**	**53**	**303.033**	ug/L	4.581	1	305	713647	1	Standard
⎣	**Mn**	**55**	**306.141**	ug/L	5.471	1	504	9533969	1	Standard
⎡>	**Ge**	**72**		ug/L			39846	32028	0	KED
⎢	**Co**	**59**	**307.176**	ug/L	0.922	0	61	1399949	0	KED
⎢	**Ni**	**60**	**303.679**	ug/L	2.108	0	59	394535	0	KED
⎢	**Ni**	**62**	**300.015**	ug/L	3.229	1	10	62152	0	KED
⎢	**Cu**	**63**	**298.175**	ug/L	1.109	0	67	1058290	0	KED
⎢	**Cu**	**65**	**292.324**	ug/L	4.504	1	26	527452	1	KED
⎢	**Zn**	**66**	**287.385**	ug/L	1.986	0	22	140723	0	KED
⎢	**Zn**	**67**	**280.785**	ug/L	2.491	0	3	22725	0	KED
⎢	**As**	**75**	**294.201**	ug/L	0.913	0	5	75455	0	KED
⎣	**Se**	**78**	**286.480**	ug/L	2.751	0	11	7045	1	KED
	Kr	**83**		ug/L			53	203	8	Standard
⎡>	**In-1**	**115**		ug/L			9311	7480	1	KED
⎢	**Mo**	**98**	**317.999**	ug/L	6.026	1	10	373953	1	KED
⎢	**Cd**	**111**	**295.955**	ug/L	4.835	1	2	75149	0	KED
⎣	**Cd**	**114**	**297.848**	ug/L	4.774	1	8	191772	0	KED
⎡>	**In**	**115**		ug/L			399419	399361	1	Standard
⎢	**Ag**	**107**	**285.536**	ug/L	7.252	2	46	3990262	0	Standard
⎢	**Ba**	**135**	**286.739**	ug/L	3.966	1	15	1510698	1	Standard
⎣	**Ba**	**137**	**298.906**	ug/L	2.154	0	37	2949511	1	Standard
⎡>	**Tb**	**159**		ug/L			173053	165043	0	Standard
⎣	**Pb**	**208**	**309.892**	ug/L	1.883	0	201	24508496	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:11:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	49173	1	Standard
⎡>	**Sc**	**45**		ug/L			330809	326774	2	Standard
⎢	**Al**	**27**	**19953.876**	ug/L	257.214	1	2334	490586538	1	Standard
⎢	**Cr**	**52**	**196.013**	ug/L	1.902	0	13927	4403434	2	Standard
⎢	**Cr**	**53**	**194.069**	ug/L	4.740	2	305	476559	0	Standard
⎣	**Mn**	**55**	**196.114**	ug/L	1.447	0	504	6370172	2	Standard
⎡>	**Ge**	**72**		ug/L			39846	33834	1	KED
⎢	**Co**	**59**	**199.526**	ug/L	1.362	0	61	960591	0	KED
⎢	**Ni**	**60**	**198.863**	ug/L	2.970	1	59	272911	0	KED
⎢	**Ni**	**62**	**198.206**	ug/L	3.678	1	10	43374	0	KED
⎢	**Cu**	**63**	**197.328**	ug/L	2.319	1	67	739866	1	KED
⎢	**Cu**	**65**	**196.798**	ug/L	0.431	0	26	375141	1	KED
⎢	**Zn**	**66**	**194.119**	ug/L	3.134	1	22	100408	0	KED
⎢	**Zn**	**67**	**193.033**	ug/L	3.419	1	3	16502	0	KED
⎢	**As**	**75**	**195.521**	ug/L	2.148	1	5	52970	0	KED
⎣	**Se**	**78**	**192.073**	ug/L	3.589	1	11	4992	0	KED
	Kr	**83**		ug/L			53	131	13	Standard
⎡>	**In-1**	**115**		ug/L			9311	7916	0	KED
⎢	**Mo**	**98**	**205.102**	ug/L	2.356	1	10	255288	0	KED
⎢	**Cd**	**111**	**198.168**	ug/L	0.577	0	2	53261	0	KED
⎣	**Cd**	**114**	**200.016**	ug/L	0.351	0	8	136315	0	KED
⎡>	**In**	**115**		ug/L			399419	410271	3	Standard
⎢	**Ag**	**107**	**183.336**	ug/L	2.976	1	46	2632172	2	Standard
⎢	**Ba**	**135**	**191.519**	ug/L	5.381	2	15	1036079	1	Standard
⎣	**Ba**	**137**	**186.709**	ug/L	2.306	1	37	1892433	2	Standard
⎡>	**Tb**	**159**		ug/L			173053	169948	1	Standard
⎣	**Pb**	**208**	**204.831**	ug/L	0.905	0	201	16680119	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:16:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	44220	1	Standard
⌈>	**Sc**	**45**		ug/L			330809	328384	0	Standard
|	**Al**	**27**	**0.139**	ug/L	0.019	13	2334	5739	7	Standard
|	**Cr**	**52**	**-0.030**	ug/L	0.010	33	13927	13160	1	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.004	92	305	291	2	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.001	3	504	1019	2	Standard
⌈>	**Ge**	**72**		ug/L			39846	35764	0	KED
|	**Co**	**59**	**0.079**	ug/L	0.076	96	61	453	84	KED
|	**Ni**	**60**	**0.073**	ug/L	0.069	93	59	158	61	KED
|	**Ni**	**62**	**0.071**	ug/L	0.062	87	10	26	53	KED
|	**Cu**	**63**	**0.089**	ug/L	0.075	84	67	411	71	KED
|	**Cu**	**65**	**0.086**	ug/L	0.066	77	26	195	67	KED
|	**Zn**	**66**	**0.158**	ug/L	0.082	52	22	106	41	KED
|	**Zn**	**67**	**0.222**	ug/L	0.171	76	3	22	66	KED
|	**As**	**75**	**0.088**	ug/L	0.068	76	5	30	62	KED
⌊	**Se**	**78**	**0.026**	ug/L	0.017	67	11	10	3	KED
	Kr	**83**		ug/L			53	41	5	Standard
⌈>	**In-1**	**115**		ug/L			9311	8209	1	KED
|	**Mo**	**98**	**0.064**	ug/L	0.014	22	10	92	20	KED
|	**Cd**	**111**	**0.010**	ug/L	0.007	66	2	4	40	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.004	55	8	12	23	KED
⌈>	**In**	**115**		ug/L			399419	436393	1	Standard
|	**Ag**	**107**	**0.011**	ug/L	0.001	10	46	213	7	Standard
|	**Ba**	**135**	**0.020**	ug/L	0.001	2	15	131	2	Standard
⌊	**Ba**	**137**	**0.017**	ug/L	0.002	14	37	224	10	Standard
⌈>	**Tb**	**159**		ug/L			173053	168280	0	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	4	201	748	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:23:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	44378	0	Standard
⎡>	**Sc**	**45**		ug/L			330809	331508	1	Standard
⎢	**Al**	**27**	**0.125**	ug/L	0.088	70	2334	5461	41	Standard
⎢	**Cr**	**52**	**-0.010**	ug/L	0.011	112	13927	13730	2	Standard
⎢	**Cr**	**53**	**-0.011**	ug/L	0.002	18	305	277	3	Standard
⎣	**Mn**	**55**	**0.013**	ug/L	0.001	8	504	932	4	Standard
⎡>	**Ge**	**72**		ug/L			39846	36934	1	KED
⎢	**Co**	**59**	**-0.007**	ug/L	0.002	21	61	19	40	KED
⎢	**Ni**	**60**	**-0.009**	ug/L	0.004	41	59	41	13	KED
⎢	**Ni**	**62**	**0.001**	ug/L	0.017	2500	10	10	39	KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.003	366	67	59	23	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.005	98	26	35	30	KED
⎢	**Zn**	**66**	**0.084**	ug/L	0.022	26	22	67	18	KED
⎢	**Zn**	**67**	**0.132**	ug/L	0.035	26	3	15	21	KED
⎢	**As**	**75**	**0.001**	ug/L	0.001	44	5	5	4	KED
⎣	**Se**	**78**	**-0.057**	ug/L	0.054	96	11	8	18	KED
	Kr	**83**		ug/L			53	42	13	Standard
⎡>	**In-1**	**115**		ug/L			9311	8509	1	KED
⎢	**Mo**	**98**	**0.039**	ug/L	0.032	80	10	62	68	KED
⎢	**Cd**	**111**	**0.023**	ug/L	0.034	151	2	8	115	KED
⎣	**Cd**	**114**	**0.004**	ug/L	0.005	119	8	10	36	KED
⎡>	**In**	**115**		ug/L			399419	429063	4	Standard
⎢	**Ag**	**107**	**0.004**	ug/L	0.001	19	46	102	10	Standard
⎢	**Ba**	**135**	**0.019**	ug/L	0.001	6	15	122	8	Standard
⎣	**Ba**	**137**	**0.015**	ug/L	0.001	7	37	200	7	Standard
⎡>	**Tb**	**159**		ug/L			173053	170125	1	Standard
⎣	**Pb**	**208**	**0.005**	ug/L	0.001	23	201	606	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:29:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	44583	1	Standard
⌈>	**Sc**	**45**		ug/L			330809	339834	1	Standard
|	**Al**	**27**	**5030.884**	ug/L	56.550	1	2334	128648322	0	Standard
|	**Cr**	**52**	**48.940**	ug/L	0.467	0	13927	1154071	0	Standard
|	**Cr**	**53**	**51.004**	ug/L	1.079	2	305	130528	2	Standard
⌊	**Mn**	**55**	**49.483**	ug/L	0.497	1	504	1671832	1	Standard
⌈>	**Ge**	**72**		ug/L			39846	36604	0	KED
|	**Co**	**59**	**50.587**	ug/L	0.991	1	61	263538	1	KED
|	**Ni**	**60**	**51.447**	ug/L	0.418	0	59	76431	0	KED
|	**Ni**	**62**	**51.192**	ug/L	0.463	0	10	12129	1	KED
|	**Cu**	**63**	**52.315**	ug/L	0.490	0	67	212254	0	KED
|	**Cu**	**65**	**52.209**	ug/L	0.649	1	26	107694	1	KED
|	**Zn**	**66**	**51.627**	ug/L	1.298	2	22	28906	1	KED
|	**Zn**	**67**	**51.769**	ug/L	1.778	3	3	4790	3	KED
|	**As**	**75**	**49.425**	ug/L	0.419	0	5	14491	0	KED
⌊	**Se**	**78**	**49.963**	ug/L	1.840	3	11	1412	2	KED
	Kr	**83**		ug/L			53	38	33	Standard
⌈>	**In-1**	**115**		ug/L			9311	8386	2	KED
|	**Mo**	**98**	**51.538**	ug/L	0.722	1	10	67950	0	KED
|	**Cd**	**111**	**52.327**	ug/L	0.646	1	2	14897	1	KED
⌊	**Cd**	**114**	**52.728**	ug/L	1.376	2	8	38058	0	KED
⌈>	**In**	**115**		ug/L			399419	427513	2	Standard
|	**Ag**	**107**	**47.359**	ug/L	0.435	0	46	708747	2	Standard
|	**Ba**	**135**	**48.344**	ug/L	0.506	1	15	272667	2	Standard
⌊	**Ba**	**137**	**48.160**	ug/L	0.598	1	37	508704	1	Standard
⌈>	**Tb**	**159**		ug/L			173053	176247	1	Standard
⌊	**Pb**	**208**	**51.551**	ug/L	1.150	2	201	4353163	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:36:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	42969	1	Standard
⌈>	**Sc**	**45**		ug/L			330809	334273	0	Standard
|	**Al**	**27**	**0.053**	ug/L	0.005	8	2334	3696	2	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.013	53	13927	13523	2	Standard
|	**Cr**	**53**	**-0.029**	ug/L	0.005	15	305	236	5	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	41	504	554	3	Standard
⌈>	**Ge**	**72**		ug/L			39846	37744	0	KED
|	**Co**	**59**	**-0.008**	ug/L	0.001	9	61	16	24	KED
|	**Ni**	**60**	**-0.025**	ug/L	0.002	8	59	17	19	KED
|	**Ni**	**62**	**-0.019**	ug/L	0.021	110	10	5	88	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.001	12	67	36	9	KED
|	**Cu**	**65**	**0.000**	ug/L	0.001	158	26	25	4	KED
|	**Zn**	**66**	**0.013**	ug/L	0.025	191	22	28	50	KED
|	**Zn**	**67**	**0.042**	ug/L	0.011	26	3	6	15	KED
|	**As**	**75**	**-0.006**	ug/L	0.003	47	5	3	21	KED
⌊	**Se**	**78**	**-0.078**	ug/L	0.107	136	11	8	36	KED
	Kr	**83**		ug/L			53	50	35	Standard
⌈>	**In-1**	**115**		ug/L			9311	8708	3	KED
|	**Mo**	**98**	**0.027**	ug/L	0.015	54	10	47	43	KED
|	**Cd**	**111**	**0.016**	ug/L	0.027	162	2	6	114	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.012	298	8	10	84	KED
⌈>	**In**	**115**		ug/L			399419	429969	3	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.000	7	46	106	3	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.001	20	15	35	13	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	79	37	59	23	Standard
⌈>	**Tb**	**159**		ug/L			173053	170863	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	14	201	521	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0256-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:44:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			41563	61493	1	Standard
> Sc	45		ug/L			330809	344234	0	Standard
Al	27	0.907	ug/L	0.001	0	2334	25925	0	Standard
Cr	52	0.021	ug/L	0.012	59	13927	14984	1	Standard
Cr	53	-0.000	ug/L	0.006	2089	305	317	4	Standard
Mn	55	0.032	ug/L	0.001	3	504	1619	2	Standard
> Ge	72		ug/L			39846	38337	1	KED
Co	59	-0.008	ug/L	0.001	18	61	16	48	KED
Ni	60	-0.017	ug/L	0.008	46	59	29	40	KED
Ni	62	-0.029	ug/L	0.005	15	10	3	34	KED
Cu	63	0.071	ug/L	0.008	10	67	368	9	KED
Cu	65	0.070	ug/L	0.006	8	26	175	6	KED
Zn	66	0.477	ug/L	0.030	6	22	300	7	KED
Zn	67	0.473	ug/L	0.074	15	3	48	14	KED
As	75	-0.008	ug/L	0.006	76	5	3	51	KED
Se	78	-0.068	ug/L	0.087	128	11	8	29	KED
Kr	83		ug/L			53	48	13	Standard
> In-1	115		ug/L			9311	9099	2	KED
Mo	98	0.021	ug/L	0.007	31	10	40	22	KED
Cd	111	0.007	ug/L	0.007	98	2	4	49	KED
Cd	114	-0.001	ug/L	0.007	550	8	6	79	KED
> In	115		ug/L			399419	433020	0	Standard
Ag	107	0.000	ug/L	0.000	154	46	53	10	Standard
Ba	135	0.039	ug/L	0.004	10	15	237	8	Standard
Ba	137	0.036	ug/L	0.004	9	37	426	8	Standard
> Tb	159		ug/L			173053	175697	0	Standard
Pb	208	0.002	ug/L	0.000	16	201	345	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0256-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:49:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			41563	68216	0	Standard
> Sc	45		ug/L			330809	346232	1	Standard
Al	27	5121.085	ug/L	60.412	1	2334	133433342	2	Standard
Cr	52	24.481	ug/L	0.104	0	13927	595482	1	Standard
Cr	53	25.383	ug/L	0.167	0	305	66347	1	Standard
Mn	55	24.899	ug/L	0.150	0	504	857407	2	Standard
> Ge	72		ug/L			39846	35317	8	KED
Co	59	26.753	ug/L	2.525	9	61	133789	1	KED
Ni	60	26.926	ug/L	2.427	9	59	38426	0	KED
Ni	62	27.390	ug/L	2.719	9	10	6231	1	KED
Cu	63	27.216	ug/L	2.442	8	67	106032	0	KED
Cu	65	26.994	ug/L	2.474	9	26	53454	0	KED
Zn	66	85.006	ug/L	8.681	10	22	45650	1	KED
Zn	67	81.130	ug/L	7.965	9	3	7203	1	KED
As	75	25.961	ug/L	2.582	9	5	7305	1	KED
Se	78	82.535	ug/L	7.381	8	11	2234	2	KED
Kr	83		ug/L			53	55	18	Standard
> In-1	115		ug/L			9311	8647	2	KED
Mo	98	26.090	ug/L	0.866	3	10	35465	1	KED
Cd	111	25.295	ug/L	0.424	1	2	7427	2	KED
Cd	114	25.797	ug/L	0.357	1	8	19210	2	KED
> In	115		ug/L			399419	436102	2	Standard
Ag	107	23.945	ug/L	0.432	1	46	365595	3	Standard
Ba	135	24.901	ug/L	0.238	0	15	143271	1	Standard
Ba	137	23.729	ug/L	0.674	2	37	255658	1	Standard
> Tb	159		ug/L			173053	175809	0	Standard
Pb	208	25.404	ug/L	0.092	0	201	2140350	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0192-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 17:55:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	189824	1	Standard
>	Sc	45		ug/L			330809	331540	2	Standard
	Al	27	1.055	ug/L	0.051	4	2334	28633	1	Standard
	Cr	52	0.905	ug/L	0.025	2	13927	34507	1	Standard
	Cr	53	0.670	ug/L	0.031	4	305	1973	3	Standard
	Mn	55	83.790	ug/L	1.019	1	504	2760980	1	Standard
>	Ge	72		ug/L			39846	33686	0	KED
	Co	59	0.190	ug/L	0.009	4	61	961	3	KED
	Ni	60	1.186	ug/L	0.027	2	59	1669	2	KED
	Ni	62	1.168	ug/L	0.008	0	10	263	0	KED
	Cu	63	0.028	ug/L	0.009	31	67	162	19	KED
	Cu	65	0.045	ug/L	0.012	26	26	106	20	KED
	Zn	66	0.648	ug/L	0.106	16	22	352	14	KED
	Zn	67	1.110	ug/L	0.041	3	3	97	3	KED
	As	75	0.062	ug/L	0.008	13	5	21	9	KED
	Se	78	0.005	ug/L	0.117	2564	11	9	32	KED
	Kr	83		ug/L			53	47	30	Standard
>	In-1	115		ug/L			9311	7843	0	KED
	Mo	98	0.839	ug/L	0.052	6	10	1043	6	KED
	Cd	111	0.016	ug/L	0.006	35	2	6	24	KED
	Cd	114	-0.001	ug/L	0.004	341	8	5	47	KED
>	In	115		ug/L			399419	438145	3	Standard
	Ag	107	0.001	ug/L	0.000	41	46	69	14	Standard
	Ba	135	6.922	ug/L	0.227	3	15	40002	0	Standard
	Ba	137	6.605	ug/L	0.216	3	37	71503	0	Standard
>	Tb	159		ug/L			173053	165981	0	Standard
	Pb	208	0.004	ug/L	0.000	7	201	493	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0179-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:01:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	60398	0	Standard
>	Sc	45		ug/L			330809	328186	8	Standard
	Al	27	15.112	ug/L	1.215	8	2334	373789	1	Standard
	Cr	52	0.283	ug/L	0.081	28	13927	20086	1	Standard
	Cr	53	0.263	ug/L	0.031	11	305	948	5	Standard
	Mn	55	9.726	ug/L	0.747	7	504	316375	2	Standard
>	Ge	72		ug/L			39846	35095	2	KED
	Co	59	0.116	ug/L	0.007	6	61	632	3	KED
	Ni	60	0.381	ug/L	0.037	9	59	593	7	KED
	Ni	62	0.392	ug/L	0.060	15	10	98	11	KED
	Cu	63	3.614	ug/L	0.039	1	67	14113	1	KED
	Cu	65	3.598	ug/L	0.074	2	26	7135	1	KED
	Zn	66	260.001	ug/L	4.512	1	22	139476	0	KED
	Zn	67	244.228	ug/L	2.847	1	3	21657	1	KED
	As	75	0.349	ug/L	0.016	4	5	103	2	KED
	Se	78	-0.032	ug/L	0.066	205	11	9	21	KED
	Kr	83		ug/L			53	47	17	Standard
>	In-1	115		ug/L			9311	8284	0	KED
	Mo	98	0.221	ug/L	0.015	6	10	297	6	KED
	Cd	111	0.689	ug/L	0.039	5	2	195	5	KED
	Cd	114	0.647	ug/L	0.053	8	8	468	8	KED
>	In	115		ug/L			399419	432019	9	Standard
	Ag	107	0.002	ug/L	0.002	76	46	81	26	Standard
	Ba	135	8.602	ug/L	1.029	11	15	48689	2	Standard
	Ba	137	8.317	ug/L	0.889	10	37	88242	0	Standard
>	Tb	159		ug/L			173053	161522	8	Standard
	Pb	208	0.219	ug/L	0.019	8	201	17064	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0141-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:07:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	52924	1	Standard
>	Sc	45		ug/L			330809	341461	2	Standard
	Al	27	61.633	ug/L	1.682	2	2334	1585403	0	Standard
	Cr	52	2.785	ug/L	0.117	4	13927	79499	1	Standard
	Cr	53	2.701	ug/L	0.043	1	305	7244	2	Standard
	Mn	55	3.301	ug/L	0.051	1	504	112539	2	Standard
>	Ge	72		ug/L			39846	34352	1	KED
	Co	59	0.006	ug/L	0.004	72	61	82	24	KED
	Ni	60	0.135	ug/L	0.008	5	59	239	3	KED
	Ni	62	0.155	ug/L	0.036	23	10	43	19	KED
	Cu	63	1.180	ug/L	0.018	1	67	4549	0	KED
	Cu	65	1.199	ug/L	0.041	3	26	2342	1	KED
	Zn	66	0.794	ug/L	0.103	12	22	436	12	KED
	Zn	67	0.657	ug/L	0.150	22	3	59	21	KED
	As	75	0.014	ug/L	0.019	138	5	8	57	KED
	Se	78	0.006	ug/L	0.095	1513	11	9	24	KED
	Kr	83		ug/L			53	48	27	Standard
>	In-1	115		ug/L			9311	7763	1	KED
	Mo	98	1.043	ug/L	0.034	3	10	1281	1	KED
	Cd	111	0.004	ug/L	0.011	283	2	2	100	KED
	Cd	114	-0.004	ug/L	0.002	41	8	4	25	KED
>	In	115		ug/L			399419	447020	2	Standard
	Ag	107	-0.001	ug/L	0.000	28	46	34	15	Standard
	Ba	135	0.241	ug/L	0.009	3	15	1436	4	Standard
	Ba	137	0.222	ug/L	0.010	4	37	2487	2	Standard
>	Tb	159		ug/L			173053	169100	0	Standard
	Pb	208	0.006	ug/L	0.000	3	201	680	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0096-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:13:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	470063	1	Standard
>	Sc	45		ug/L			330809	323722	3	Standard
	Al	27	6.095	ug/L	0.160	2	2334	150693	1	Standard
	Cr	52	2.267	ug/L	0.039	1	13927	63915	1	Standard
	Cr	53	1.877	ug/L	0.044	2	305	4863	0	Standard
	Mn	55	12.516	ug/L	0.179	1	504	403110	1	Standard
>	Ge	72		ug/L			39846	30290	0	KED
	Co	59	0.238	ug/L	0.021	8	61	1072	9	KED
	Ni	60	4.271	ug/L	0.073	1	59	5291	0	KED
	Ni	62	4.169	ug/L	0.409	9	10	825	10	KED
	Cu	63	3.098	ug/L	0.034	1	67	10448	0	KED
	Cu	65	3.043	ug/L	0.049	1	26	5211	1	KED
	Zn	66	4.701	ug/L	0.224	4	22	2193	4	KED
	Zn	67	6.665	ug/L	0.386	5	3	512	4	KED
	As	75	0.085	ug/L	0.012	14	5	25	12	KED
	Se	78	0.085	ug/L	0.229	269	11	10	49	KED
	Kr	83		ug/L			53	56	8	Standard
>	In-1	115		ug/L			9311	7086	1	KED
	Mo	98	3.459	ug/L	0.034	0	10	3862	2	KED
	Cd	111	0.063	ug/L	0.020	31	2	16	28	KED
	Cd	114	0.043	ug/L	0.002	5	8	32	6	KED
>	In	115		ug/L			399419	439580	3	Standard
	Ag	107	-0.001	ug/L	0.001	44	46	31	24	Standard
	Ba	135	43.924	ug/L	1.330	3	15	254601	0	Standard
	Ba	137	41.233	ug/L	1.244	3	37	447652	0	Standard
>	Tb	159		ug/L			173053	163713	1	Standard
	Pb	208	0.049	ug/L	0.001	2	201	4006	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0453-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:19:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			41563	467188	1	Standard
> Sc	45		ug/L			330809	264702	2	Standard
Al	27	1.789	ug/L	0.065	3	2334	37484	1	Standard
Cr	52	2.326	ug/L	0.014	0	13927	53347	2	Standard
Cr	53	2.016	ug/L	0.029	1	305	4253	2	Standard
Mn	55	90.714	ug/L	0.679	0	504	2386795	2	Standard
> Ge	72		ug/L			39846	23335	1	KED
Co	59	0.924	ug/L	0.015	1	61	3103	0	KED
Ni	60	8.803	ug/L	0.077	0	59	8367	2	KED
Ni	62	8.517	ug/L	0.394	4	10	1291	4	KED
Cu	63	1.575	ug/L	0.058	3	67	4113	5	KED
Cu	65	1.629	ug/L	0.015	0	26	2156	1	KED
Zn	66	9.219	ug/L	0.134	1	22	3301	1	KED
Zn	67	9.015	ug/L	0.346	3	3	533	3	KED
As	75	0.181	ug/L	0.019	10	5	37	10	KED
Se	78	0.030	ug/L	0.197	666	11	7	49	KED
Kr	83		ug/L			53	76	7	Standard
> In-1	115		ug/L			9311	5637	1	KED
Mo	98	4.020	ug/L	0.093	2	10	3568	1	KED
Cd	111	0.129	ug/L	0.025	18	2	26	16	KED
Cd	114	0.086	ug/L	0.024	28	8	46	23	KED
> In	115		ug/L			399419	364153	1	Standard
Ag	107	0.001	ug/L	0.000	42	46	53	8	Standard
Ba	135	14.760	ug/L	0.168	1	15	70933	2	Standard
Ba	137	13.836	ug/L	0.067	0	37	124533	0	Standard
> Tb	159		ug/L			173053	145714	0	Standard
Pb	208	0.013	ug/L	0.001	4	201	1095	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:24:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	45606	1	Standard
⌈>	**Sc**	**45**		ug/L			330809	307255	2	Standard
|	**Al**	**27**	**0.016**	ug/L	0.004	26	2334	2527	0	Standard
|	**Cr**	**52**	**0.139**	ug/L	0.010	7	13927	15868	2	Standard
|	**Cr**	**53**	**-0.023**	ug/L	0.004	18	305	231	4	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.000	20	504	536	2	Standard
⌈>	**Ge**	**72**		ug/L			39846	32401	1	KED
|	**Co**	**59**	**-0.010**	ug/L	0.000	4	61	5	33	KED
|	**Ni**	**60**	**-0.024**	ug/L	0.004	14	59	15	30	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.015	65	10	3	86	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.004	73	67	35	38	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	291	26	19	20	KED
|	**Zn**	**66**	**0.145**	ug/L	0.025	17	22	90	15	KED
|	**Zn**	**67**	**0.239**	ug/L	0.165	69	3	22	62	KED
|	**As**	**75**	**-0.010**	ug/L	0.002	19	5	2	26	KED
⌊	**Se**	**78**	**-0.061**	ug/L	0.128	208	11	7	42	KED
	Kr	**83**		ug/L			53	37	26	Standard
⌈>	**In-1**	**115**		ug/L			9311	7506	1	KED
|	**Mo**	**98**	**-0.004**	ug/L	0.001	22	10	3	29	KED
|	**Cd**	**111**	**0.007**	ug/L	0.004	64	2	3	31	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.009	259	8	4	142	KED
⌈>	**In**	**115**		ug/L			399419	444777	1	Standard
|	**Ag**	**107**	**-0.002**	ug/L	0.000	21	46	19	36	Standard
|	**Ba**	**135**	**0.007**	ug/L	0.002	33	15	57	21	Standard
⌊	**Ba**	**137**	**0.006**	ug/L	0.002	29	37	109	18	Standard
⌈>	**Tb**	**159**		ug/L			173053	162882	2	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.001	11	201	540	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0595-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:29:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41563	217510	1	Standard
>	Sc	45		ug/L			330809	342435	1	Standard
	Al	27	31.824	ug/L	0.499	1	2334	822422	1	Standard
	Cr	52	19.730	ug/L	0.247	1	13927	477459	2	Standard
	Cr	53	20.893	ug/L	0.184	0	305	54064	0	Standard
	Mn	55	39.455	ug/L	0.383	0	504	1343286	0	Standard
>	Ge	72		ug/L			39846	33867	0	KED
	Co	59	0.242	ug/L	0.009	3	61	1217	3	KED
	Ni	60	9.441	ug/L	0.159	1	59	13019	1	KED
	Ni	62	9.301	ug/L	0.119	1	10	2046	1	KED
	Cu	63	2.664	ug/L	0.025	0	67	10056	0	KED
	Cu	65	2.573	ug/L	0.048	1	26	4931	1	KED
	Zn	66	312.435	ug/L	5.661	1	22	161764	1	KED
	Zn	67	290.044	ug/L	0.893	0	3	24823	0	KED
	As	75	0.016	ug/L	0.004	23	5	9	10	KED
	Se	78	-0.141	ug/L	0.058	41	11	5	25	KED
	Kr	83		ug/L			53	42	15	Standard
>	In-1	115		ug/L			9311	7696	1	KED
	Mo	98	0.158	ug/L	0.016	9	10	200	7	KED
	Cd	111	0.702	ug/L	0.030	4	2	185	4	KED
	Cd	114	0.730	ug/L	0.032	4	8	490	4	KED
>	In	115		ug/L			399419	472892	1	Standard
	Ag	107	-0.000	ug/L	0.001	454	46	52	21	Standard
	Ba	135	3.767	ug/L	0.076	2	15	23519	0	Standard
	Ba	137	3.536	ug/L	0.078	2	37	41354	1	Standard
>	Tb	159		ug/L			173053	170648	0	Standard
	Pb	208	0.155	ug/L	0.004	2	201	12854	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:35:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	43564	2	Standard
⎡>	**Sc**	**45**		ug/L			330809	314941	1	Standard
⎢	**Al**	**27**	**0.014**	ug/L	0.003	20	2334	2549	2	Standard
⎢	**Cr**	**52**	**-0.038**	ug/L	0.007	18	13927	12445	1	Standard
⎢	**Cr**	**53**	**-0.034**	ug/L	0.006	16	305	210	7	Standard
⎣	**Mn**	**55**	**0.001**	ug/L	0.001	215	504	500	8	Standard
⎡>	**Ge**	**72**		ug/L			39846	34168	1	KED
⎢	**Co**	**59**	**-0.010**	ug/L	0.000	3	61	3	50	KED
⎢	**Ni**	**60**	**-0.024**	ug/L	0.004	17	59	17	33	KED
⎢	**Ni**	**62**	**-0.025**	ug/L	0.000	0	10	3	0	KED
⎢	**Cu**	**63**	**-0.006**	ug/L	0.001	11	67	35	6	KED
⎢	**Cu**	**65**	**0.001**	ug/L	0.004	374	26	24	27	KED
⎢	**Zn**	**66**	**0.158**	ug/L	0.027	17	22	101	13	KED
⎢	**Zn**	**67**	**0.093**	ug/L	0.033	35	3	10	26	KED
⎢	**As**	**75**	**-0.012**	ug/L	0.005	45	5	1	83	KED
⎣	**Se**	**78**	**-0.051**	ug/L	0.024	48	11	8	8	KED
	Kr	**83**		ug/L			53	38	19	Standard
⎡>	**In-1**	**115**		ug/L			9311	7896	0	KED
⎢	**Mo**	**98**	**-0.004**	ug/L	0.003	73	10	4	71	KED
⎢	**Cd**	**111**	**0.007**	ug/L	0.007	98	2	3	50	KED
⎣	**Cd**	**114**	**-0.006**	ug/L	0.003	59	8	3	72	KED
⎡>	**In**	**115**		ug/L			399419	463464	1	Standard
⎢	**Ag**	**107**	**-0.002**	ug/L	0.001	28	46	24	35	Standard
⎢	**Ba**	**135**	**0.007**	ug/L	0.003	35	15	61	24	Standard
⎣	**Ba**	**137**	**0.006**	ug/L	0.001	14	37	113	9	Standard
⎡>	**Tb**	**159**		ug/L			173053	165309	0	Standard
⎣	**Pb**	**208**	**0.004**	ug/L	0.000	9	201	539	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:40:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	43588	1	Standard
>	**Sc**	**45**		ug/L			330809	337577	3	Standard
	Al	**27**	**4990.853**	ug/L	138.174	2	2334	126726667	1	Standard
	Cr	**52**	**48.378**	ug/L	1.262	2	13927	1132847	0	Standard
	Cr	**53**	**50.449**	ug/L	0.708	1	305	128222	1	Standard
	Mn	**55**	**50.233**	ug/L	0.526	1	504	1685718	2	Standard
>	**Ge**	**72**		ug/L			39846	34741	1	KED
	Co	**59**	**50.848**	ug/L	0.098	0	61	251423	1	KED
	Ni	**60**	**51.512**	ug/L	0.883	1	59	72624	0	KED
	Ni	**62**	**51.601**	ug/L	0.648	1	10	11602	1	KED
	Cu	**63**	**52.642**	ug/L	0.697	1	67	202695	0	KED
	Cu	**65**	**52.433**	ug/L	0.794	1	26	102631	0	KED
	Zn	**66**	**52.649**	ug/L	0.949	1	22	27976	0	KED
	Zn	**67**	**52.513**	ug/L	2.147	4	3	4611	3	KED
	As	**75**	**49.237**	ug/L	1.014	2	5	13699	1	KED
	Se	**78**	**50.234**	ug/L	0.652	1	11	1348	0	KED
	Kr	**83**		ug/L			53	49	7	Standard
>	**In-1**	**115**		ug/L			9311	8141	0	KED
	Mo	**98**	**50.976**	ug/L	0.810	1	10	65258	1	KED
	Cd	**111**	**51.337**	ug/L	0.106	0	2	14190	0	KED
	Cd	**114**	**51.796**	ug/L	0.528	1	8	36304	0	KED
>	**In**	**115**		ug/L			399419	465743	0	Standard
	Ag	**107**	**44.992**	ug/L	0.986	2	46	733544	2	Standard
	Ba	**135**	**45.534**	ug/L	0.929	2	15	279803	1	Standard
	Ba	**137**	**43.749**	ug/L	0.819	1	37	503512	1	Standard
>	**Tb**	**159**		ug/L			173053	175419	0	Standard
	Pb	**208**	**53.785**	ug/L	0.549	1	201	4520944	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:47:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41563	42485	0	Standard
>	**Sc**	**45**		ug/L			330809	312260	3	Standard
	Al	**27**	**0.043**	ug/L	0.006	14	2334	3217	5	Standard
	Cr	**52**	**-0.030**	ug/L	0.019	62	13927	12501	1	Standard
	Cr	**53**	**-0.048**	ug/L	0.004	8	305	175	7	Standard
	Mn	**55**	**-0.000**	ug/L	0.000	67	504	470	3	Standard
>	**Ge**	**72**		ug/L			39846	35618	1	KED
	Co	**59**	**-0.010**	ug/L	0.001	8	61	6	62	KED
	Ni	**60**	**-0.026**	ug/L	0.005	19	59	15	45	KED
	Ni	**62**	**-0.028**	ug/L	0.010	33	10	3	69	KED
	Cu	**63**	**-0.009**	ug/L	0.001	11	67	24	15	KED
	Cu	**65**	**-0.003**	ug/L	0.004	136	26	17	44	KED
	Zn	**66**	**0.035**	ug/L	0.006	17	22	38	10	KED
	Zn	**67**	**0.068**	ug/L	0.086	126	3	8	86	KED
	As	**75**	**-0.006**	ug/L	0.005	85	5	3	37	KED
	Se	**78**	**-0.035**	ug/L	0.092	264	11	9	29	KED
	Kr	**83**		ug/L			53	46	2	Standard
>	**In-1**	**115**		ug/L			9311	8219	2	KED
	Mo	**98**	**0.010**	ug/L	0.006	62	10	22	37	KED
	Cd	**111**	**0.008**	ug/L	0.014	179	2	4	93	KED
	Cd	**114**	**-0.005**	ug/L	0.006	112	8	3	106	KED
>	**In**	**115**		ug/L			399419	435446	4	Standard
	Ag	**107**	**0.001**	ug/L	0.000	63	46	60	12	Standard
	Ba	**135**	**0.001**	ug/L	0.002	149	15	23	44	Standard
	Ba	**137**	**0.001**	ug/L	0.001	78	37	50	13	Standard
>	**Tb**	**159**		ug/L			173053	162511	4	Standard
	Pb	**208**	**0.004**	ug/L	0.000	11	201	514	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:54:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				42090	0	Standard
>	**Sc**	**45**		ug/L				332961	2	Standard
	Cr	**52**		ug/L				12895	2	Standard
	Cr	**53**		ug/L				187	6	Standard
	Mn	**55**		ug/L				424	3	Standard
>	**Ge**	**72**		ug/L				35628	1	KED
	Ni	**60**		ug/L				10	26	KED
	Ni	**62**		ug/L				2	86	KED
	Cu	**63**		ug/L				12	37	KED
	Cu	**65**		ug/L				10	47	KED
	Zn	**66**		ug/L				20	39	KED
	Zn	**67**		ug/L				2	43	KED
	As	**75**		ug/L				3	34	KED
	Kr	**83**		ug/L				45	4	Standard
>	**In-1**	**115**		ug/L				8466	3	KED
	Cd	**111**		ug/L				1	34	KED
	Cd	**114**		ug/L				3	52	KED
>	**In**	**115**		ug/L				448865	1	Standard
	Ag	**107**		ug/L				40	9	Standard
	Ba	**135**		ug/L				11	44	Standard
	Ba	**137**		ug/L				19	5	Standard
>	**Tb**	**159**		ug/L				168501	1	Standard
	Pb	**208**		ug/L				172	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 18:59:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	42861	2	Standard
⌈>	**Sc**	**45**		ug/L			332961	342352	1	Standard
|	**Cr**	**52**	**48.393**	ug/L	0.603	1	12895	1148797	2	Standard
|	**Cr**	**53**	**50.240**	ug/L	0.892	1	187	129428	2	Standard
⌊	**Mn**	**55**	**49.914**	ug/L	0.939	1	424	1698864	2	Standard
⌈>	**Ge**	**72**		ug/L			35628	36455	0	KED
|	**Ni**	**60**	**51.317**	ug/L	0.584	1	10	75887	0	KED
|	**Ni**	**62**	**52.179**	ug/L	0.556	1	2	12304	0	KED
|	**Cu**	**63**	**52.820**	ug/L	0.430	0	12	213390	0	KED
|	**Cu**	**65**	**52.452**	ug/L	0.162	0	10	107736	0	KED
|	**Zn**	**66**	**51.454**	ug/L	0.954	1	20	28694	1	KED
|	**Zn**	**67**	**50.889**	ug/L	0.102	0	2	4690	0	KED
⌊	**As**	**75**	**49.075**	ug/L	0.432	0	3	14328	0	KED
	Kr	**83**		ug/L			45	52	24	Standard
⌈>	**In-1**	**115**		ug/L			8466	8452	1	KED
|	**Cd**	**111**	**50.990**	ug/L	0.707	1	1	14631	0	KED
⌊	**Cd**	**114**	**51.137**	ug/L	0.782	1	3	37206	0	KED
⌈>	**In**	**115**		ug/L			448865	462302	1	Standard
|	**Ag**	**107**	**45.329**	ug/L	0.211	0	40	733525	1	Standard
|	**Ba**	**135**	**46.066**	ug/L	1.132	2	11	280911	0	Standard
⌊	**Ba**	**137**	**44.112**	ug/L	0.954	2	19	503821	0	Standard
⌈>	**Tb**	**159**		ug/L			168501	176683	1	Standard
⌊	**Pb**	**208**	**52.096**	ug/L	0.628	1	172	4410480	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:06:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	43305	0	Standard
⌈>	**Sc**	**45**		ug/L			332961	328091	3	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.021	824	12895	12638	1	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.007	364	187	180	8	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	97	424	396	8	Standard
⌈>	**Ge**	**72**		ug/L			35628	37144	2	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.004	246	10	8	61	KED
|	**Ni**	**62**	**0.005**	ug/L	0.008	160	2	3	50	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	56	12	24	24	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	373	10	8	75	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.013	353	20	19	36	KED
|	**Zn**	**67**	**0.032**	ug/L	0.034	104	2	5	57	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	223	3	3	24	KED
	Kr	**83**		ug/L			45	29	30	Standard
⌈>	**In-1**	**115**		ug/L			8466	8638	2	KED
|	**Cd**	**111**	**0.033**	ug/L	0.059	176	1	11	152	KED
⌊	**Cd**	**114**	**0.034**	ug/L	0.046	136	3	29	119	KED
⌈>	**In**	**115**		ug/L			448865	441677	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	73	40	62	24	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.000	54	11	7	25	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	328	19	20	24	Standard
⌈>	**Tb**	**159**		ug/L			168501	167164	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	172	233	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:14:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42090	69068	0	Standard
>	Sc	45		ug/L			332961	339062	1	Standard
	Cr	52	0.181	ug/L	0.004	2	12895	17337	1	Standard
	Cr	53	0.157	ug/L	0.005	2	187	589	3	Standard
	Mn	55	0.145	ug/L	0.001	0	424	5314	1	Standard
>	Ge	72		ug/L			35628	37186	1	KED
	Ni	60	0.016	ug/L	0.004	26	10	34	16	KED
	Ni	62	0.007	ug/L	0.012	162	2	4	65	KED
	Cu	63	0.080	ug/L	0.007	8	12	342	9	KED
	Cu	65	0.082	ug/L	0.013	15	10	182	13	KED
	Zn	66	2.195	ug/L	0.033	1	20	1268	0	KED
	Zn	67	2.421	ug/L	0.311	12	2	229	11	KED
	As	75	-0.003	ug/L	0.004	142	3	2	52	KED
	Kr	83		ug/L			45	41	18	Standard
>	In-1	115		ug/L			8466	8759	2	KED
	Cd	111	0.010	ug/L	0.006	59	1	4	40	KED
	Cd	114	0.003	ug/L	0.003	80	3	6	34	KED
>	In	115		ug/L			448865	455179	2	Standard
	Ag	107	0.000	ug/L	0.001	1022	40	41	18	Standard
	Ba	135	0.057	ug/L	0.010	18	11	354	15	Standard
	Ba	137	0.051	ug/L	0.001	1	19	593	4	Standard
>	Tb	159		ug/L			168501	172687	0	Standard
	Pb	208	0.014	ug/L	0.001	4	172	1316	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-BS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 09, 2023 19:18:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	65913	0	Standard
>	**Sc**	**45**		ug/L			332961	337655	1	Standard
	Cr	**52**	**24.707**	ug/L	0.281	1	12895	584791	1	Standard
	Cr	**53**	**25.988**	ug/L	0.282	1	187	66120	2	Standard
	Mn	**55**	**25.988**	ug/L	0.313	1	424	872658	2	Standard
>	**Ge**	**72**		ug/L			35628	34015	11	KED
	Ni	**60**	**28.928**	ug/L	3.451	11	10	39543	0	KED
	Ni	**62**	**28.971**	ug/L	3.148	10	2	6321	1	KED
	Cu	**63**	**29.976**	ug/L	3.547	11	12	111942	0	KED
	Cu	**65**	**29.702**	ug/L	3.366	11	10	56417	1	KED
	Zn	**66**	**92.071**	ug/L	10.538	11	20	47464	1	KED
	Zn	**67**	**86.466**	ug/L	8.847	10	2	7373	2	KED
	As	**75**	**26.430**	ug/L	3.010	11	3	7137	1	KED
	Kr	**83**		ug/L			45	52	18	Standard
>	**In-1**	**115**		ug/L			8466	8450	2	KED
	Cd	**111**	**26.183**	ug/L	0.785	2	1	7513	4	KED
	Cd	**114**	**25.912**	ug/L	0.660	2	3	18853	3	KED
>	**In**	**115**		ug/L			448865	445725	2	Standard
	Ag	**107**	**24.031**	ug/L	0.079	0	40	374977	2	Standard
	Ba	**135**	**24.589**	ug/L	0.460	1	11	144563	0	Standard
	Ba	**137**	**23.305**	ug/L	0.435	1	19	256642	1	Standard
>	**Tb**	**159**		ug/L			168501	171848	1	Standard
	Pb	**208**	**27.383**	ug/L	0.294	1	172	2254912	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:24:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42090	66007	3	Standard
>	Sc	45		ug/L			332961	335680	0	Standard
	Cr	52	25.125	ug/L	0.269	1	12895	590992	0	Standard
	Cr	53	26.262	ug/L	0.360	1	187	66416	0	Standard
	Mn	55	26.567	ug/L	0.430	1	424	886840	2	Standard
>	Ge	72		ug/L			35628	36217	1	KED
	Ni	60	26.843	ug/L	0.265	0	10	39440	1	KED
	Ni	62	26.232	ug/L	0.186	0	2	6147	2	KED
	Cu	63	28.057	ug/L	0.145	0	12	112608	1	KED
	Cu	65	27.702	ug/L	0.192	0	10	56528	0	KED
	Zn	66	87.024	ug/L	0.889	1	20	48202	1	KED
	Zn	67	80.670	ug/L	1.801	2	2	7384	2	KED
	As	75	24.830	ug/L	0.352	1	3	7202	0	KED
	Kr	83		ug/L			45	45	24	Standard
>	In-1	115		ug/L			8466	8619	2	KED
	Cd	111	26.006	ug/L	0.880	3	1	7607	1	KED
	Cd	114	25.666	ug/L	0.481	1	3	19046	3	KED
>	In	115		ug/L			448865	461265	1	Standard
	Ag	107	23.687	ug/L	0.621	2	40	382366	1	Standard
	Ba	135	23.848	ug/L	0.457	1	11	145107	0	Standard
	Ba	137	22.774	ug/L	0.436	1	19	259535	0	Standard
>	Tb	159		ug/L			168501	172071	1	Standard
	Pb	208	27.496	ug/L	0.504	1	172	2266962	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:29:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42090	64759	1	Standard
>	Sc	45		ug/L			332961	333825	0	Standard
	Cr	52	0.150	ug/L	0.017	11	12895	16368	1	Standard
	Cr	53	0.098	ug/L	0.001	1	187	433	0	Standard
	Mn	55	0.382	ug/L	0.007	1	424	13092	1	Standard
>	Ge	72		ug/L			35628	36493	0	KED
	Ni	60	0.011	ug/L	0.004	34	10	27	21	KED
	Ni	62	0.021	ug/L	0.014	65	2	7	43	KED
	Cu	63	0.061	ug/L	0.004	6	12	257	6	KED
	Cu	65	0.057	ug/L	0.004	6	10	127	6	KED
	Zn	66	0.632	ug/L	0.030	4	20	373	5	KED
	Zn	67	0.674	ug/L	0.051	7	2	64	7	KED
	As	75	-0.001	ug/L	0.002	115	3	2	16	KED
	Kr	83		ug/L			45	43	15	Standard
>	In-1	115		ug/L			8466	8432	2	KED
	Cd	111	0.006	ug/L	0.005	95	1	3	45	KED
	Cd	114	-0.002	ug/L	0.001	63	3	2	52	KED
>	In	115		ug/L			448865	446651	1	Standard
	Ag	107	0.002	ug/L	0.001	22	40	76	11	Standard
	Ba	135	0.135	ug/L	0.003	2	11	808	2	Standard
	Ba	137	0.138	ug/L	0.008	6	19	1536	4	Standard
>	Tb	159		ug/L			168501	170397	0	Standard
	Pb	208	0.014	ug/L	0.000	2	172	1323	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:33:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42090	71232	1	Standard
>	Sc	45		ug/L			332961	346017	4	Standard
	Cr	52	26.359	ug/L	0.539	2	12895	638177	2	Standard
	Cr	53	26.857	ug/L	0.944	3	187	69946	1	Standard
	Mn	55	27.397	ug/L	0.898	3	424	941818	0	Standard
>	Ge	72		ug/L			35628	37051	0	KED
	Ni	60	27.210	ug/L	0.160	0	10	40901	0	KED
	Ni	62	27.077	ug/L	0.546	2	2	6490	1	KED
	Cu	63	27.661	ug/L	0.364	1	12	113578	1	KED
	Cu	65	27.335	ug/L	0.171	0	10	57069	0	KED
	Zn	66	87.930	ug/L	2.293	2	20	49824	2	KED
	Zn	67	84.630	ug/L	1.547	1	2	7925	1	KED
	As	75	26.088	ug/L	0.110	0	3	7743	0	KED
	Kr	83		ug/L			45	43	19	Standard
>	In-1	115		ug/L			8466	8673	1	KED
	Cd	111	26.748	ug/L	0.446	1	1	7876	1	KED
	Cd	114	26.501	ug/L	0.294	1	3	19788	0	KED
>	In	115		ug/L			448865	446416	4	Standard
	Ag	107	24.717	ug/L	0.883	3	40	385850	1	Standard
	Ba	135	25.657	ug/L	1.120	4	11	150929	0	Standard
	Ba	137	24.866	ug/L	1.144	4	19	273928	0	Standard
>	Tb	159		ug/L			168501	174613	1	Standard
	Pb	208	27.396	ug/L	0.538	1	172	2291862	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0297-08
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:39:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	63336	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	361093	0	Standard
|	**Cr**	**52**	**2.659**	ug/L	0.037	1	12895	79801	1	Standard
|	**Cr**	**53**	**2.804**	ug/L	0.029	1	187	7809	0	Standard
⌊	**Mn**	**55**	**20.060**	ug/L	0.199	0	424	720449	1	Standard
⌈>	**Ge**	**72**		ug/L			35628	38084	1	KED
|	**Ni**	**60**	**1.908**	ug/L	0.071	3	10	2957	1	KED
|	**Ni**	**62**	**2.012**	ug/L	0.197	9	2	497	8	KED
|	**Cu**	**63**	**8.245**	ug/L	0.289	3	12	34803	3	KED
|	**Cu**	**65**	**8.023**	ug/L	0.246	3	10	17218	1	KED
|	**Zn**	**66**	**58.360**	ug/L	0.766	1	20	33994	1	KED
|	**Zn**	**67**	**54.364**	ug/L	0.893	1	2	5234	2	KED
⌊	**As**	**75**	**0.298**	ug/L	0.021	6	3	94	8	KED
	Kr	**83**		ug/L			45	36	10	Standard
⌈>	**In-1**	**115**		ug/L			8466	9035	0	KED
|	**Cd**	**111**	**0.142**	ug/L	0.014	10	1	45	10	KED
⌊	**Cd**	**114**	**0.127**	ug/L	0.014	10	3	103	11	KED
⌈>	**In**	**115**		ug/L			448865	454440	2	Standard
|	**Ag**	**107**	**0.016**	ug/L	0.001	3	40	297	5	Standard
|	**Ba**	**135**	**34.910**	ug/L	0.298	0	11	209327	2	Standard
⌊	**Ba**	**137**	**33.851**	ug/L	0.731	2	19	380014	0	Standard
⌈>	**Tb**	**159**		ug/L			168501	176044	2	Standard
⌊	**Pb**	**208**	**1.550**	ug/L	0.017	1	172	130891	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-07
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:44:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	57200	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	394052	1	Standard
|	**Cr**	**52**	**3.550**	ug/L	0.045	1	12895	111142	1	Standard
|	**Cr**	**53**	**3.770**	ug/L	0.025	0	187	11382	0	Standard
⌊	**Mn**	**55**	**35.202**	ug/L	0.529	1	424	1379290	2	Standard
⌈>	**Ge**	**72**		ug/L			35628	38427	0	KED
|	**Ni**	**60**	**3.195**	ug/L	0.048	1	10	4990	0	KED
|	**Ni**	**62**	**3.067**	ug/L	0.150	4	2	765	5	KED
|	**Cu**	**63**	**8.997**	ug/L	0.227	2	12	38323	2	KED
|	**Cu**	**65**	**8.861**	ug/L	0.055	0	10	19193	1	KED
|	**Zn**	**66**	**16.189**	ug/L	0.177	1	20	9531	0	KED
|	**Zn**	**67**	**15.504**	ug/L	0.281	1	2	1508	1	KED
⌊	**As**	**75**	**1.747**	ug/L	0.039	2	3	540	1	KED
	Kr	**83**		ug/L			45	50	20	Standard
⌈>	**In-1**	**115**		ug/L			8466	8966	2	KED
|	**Cd**	**111**	**0.058**	ug/L	0.022	38	1	19	32	KED
⌊	**Cd**	**114**	**0.056**	ug/L	0.025	43	3	47	41	KED
⌈>	**In**	**115**		ug/L			448865	451130	0	Standard
|	**Ag**	**107**	**0.045**	ug/L	0.001	1	40	747	1	Standard
|	**Ba**	**135**	**9.899**	ug/L	0.110	1	11	58931	0	Standard
⌊	**Ba**	**137**	**9.514**	ug/L	0.045	0	19	106082	0	Standard
⌈>	**Tb**	**159**		ug/L			168501	182935	0	Standard
⌊	**Pb**	**208**	**4.120**	ug/L	0.046	1	172	361352	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0595-01RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:48:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	86976	0	Standard
⌈>	**Sc**	**45**		ug/L			332961	350786	1	Standard
|	**Cr**	**52**	**4.243**	ug/L	0.071	1	12895	115582	0	Standard
|	**Cr**	**53**	**4.406**	ug/L	0.060	1	187	11808	1	Standard
⌊	**Mn**	**55**	**8.323**	ug/L	0.022	0	424	290623	1	Standard
⌈>	**Ge**	**72**		ug/L			35628	38226	1	KED
|	**Ni**	**60**	**1.962**	ug/L	0.009	0	10	3053	1	KED
|	**Ni**	**62**	**1.984**	ug/L	0.144	7	2	493	8	KED
|	**Cu**	**63**	**0.540**	ug/L	0.014	2	12	2302	1	KED
|	**Cu**	**65**	**0.534**	ug/L	0.015	2	10	1160	1	KED
|	**Zn**	**66**	**64.841**	ug/L	1.522	2	20	37905	1	KED
|	**Zn**	**67**	**59.897**	ug/L	1.863	3	2	5787	2	KED
⌊	**As**	**75**	**0.002**	ug/L	0.003	188	3	3	27	KED
	Kr	**83**		ug/L			45	49	16	Standard
⌈>	**In-1**	**115**		ug/L			8466	8893	0	KED
|	**Cd**	**111**	**0.149**	ug/L	0.010	6	1	46	6	KED
⌊	**Cd**	**114**	**0.141**	ug/L	0.008	5	3	111	5	KED
⌈>	**In**	**115**		ug/L			448865	460930	2	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	44	40	33	11	Standard
|	**Ba**	**135**	**0.814**	ug/L	0.043	5	11	4957	2	Standard
⌊	**Ba**	**137**	**0.775**	ug/L	0.018	2	19	8846	1	Standard
⌈>	**Tb**	**159**		ug/L			168501	173712	0	Standard
⌊	**Pb**	**208**	**0.058**	ug/L	0.001	0	172	4972	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0453-01RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:53:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	160873	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	319215	1	Standard
|	**Cr**	**52**	**0.694**	ug/L	0.020	2	12895	27543	2	Standard
|	**Cr**	**53**	**0.492**	ug/L	0.016	3	187	1358	3	Standard
⌊	**Mn**	**55**	**18.991**	ug/L	0.252	1	424	602918	1	Standard
⌈>	**Ge**	**72**		ug/L			35628	31894	0	KED
|	**Ni**	**60**	**1.833**	ug/L	0.037	2	10	2380	1	KED
|	**Ni**	**62**	**1.692**	ug/L	0.259	15	2	351	14	KED
|	**Cu**	**63**	**0.341**	ug/L	0.012	3	12	1217	2	KED
|	**Cu**	**65**	**0.349**	ug/L	0.005	1	10	636	0	KED
|	**Zn**	**66**	**2.228**	ug/L	0.061	2	20	1104	2	KED
|	**Zn**	**67**	**2.398**	ug/L	0.051	2	2	195	2	KED
⌊	**As**	**75**	**0.037**	ug/L	0.011	29	3	12	22	KED
	Kr	**83**		ug/L			45	40	17	Standard
⌈>	**In-1**	**115**		ug/L			8466	7512	1	KED
|	**Cd**	**111**	**0.034**	ug/L	0.009	26	1	10	23	KED
⌊	**Cd**	**114**	**0.030**	ug/L	0.017	56	3	22	47	KED
⌈>	**In**	**115**		ug/L			448865	434309	1	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	230	40	38	5	Standard
|	**Ba**	**135**	**2.900**	ug/L	0.038	1	11	16628	0	Standard
⌊	**Ba**	**137**	**2.774**	ug/L	0.007	0	19	29791	2	Standard
⌈>	**Tb**	**159**		ug/L			168501	164060	1	Standard
⌊	**Pb**	**208**	**0.028**	ug/L	0.001	2	172	2397	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 19:57:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	45612	0	Standard
⌈>	**Sc**	**45**		ug/L			332961	316987	2	Standard
|	**Cr**	**52**	**0.186**	ug/L	0.031	16	12895	16303	2	Standard
|	**Cr**	**53**	**0.014**	ug/L	0.005	34	187	211	6	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.000	6	424	589	1	Standard
⌈>	**Ge**	**72**		ug/L			35628	34677	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.002	764	10	10	20	KED
|	**Ni**	**62**	**0.000**	ug/L	0.005	1626	2	2	43	KED
|	**Cu**	**63**	**0.008**	ug/L	0.001	19	12	41	14	KED
|	**Cu**	**65**	**0.006**	ug/L	0.003	60	10	20	32	KED
|	**Zn**	**66**	**0.131**	ug/L	0.024	18	20	89	14	KED
|	**Zn**	**67**	**0.117**	ug/L	0.026	22	2	12	17	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	147	3	2	20	KED
	Kr	**83**		ug/L			45	43	0	Standard
⌈>	**In-1**	**115**		ug/L			8466	7845	2	KED
|	**Cd**	**111**	**0.008**	ug/L	0.008	101	1	3	56	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	302	3	4	65	KED
⌈>	**In**	**115**		ug/L			448865	441414	2	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	85	40	31	24	Standard
|	**Ba**	**135**	**0.007**	ug/L	0.002	33	11	54	28	Standard
⌊	**Ba**	**137**	**0.008**	ug/L	0.002	21	19	106	15	Standard
⌈>	**Tb**	**159**		ug/L			168501	161328	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	5	172	499	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:01:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	43287	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	331897	2	Standard
|	**Cr**	**52**	**48.217**	ug/L	0.398	0	12895	1109511	1	Standard
|	**Cr**	**53**	**49.743**	ug/L	0.721	1	187	124207	1	Standard
⌊	**Mn**	**55**	**49.306**	ug/L	0.636	1	424	1626734	1	Standard
⌈>	**Ge**	**72**		ug/L			35628	34508	1	KED
|	**Ni**	**60**	**52.467**	ug/L	0.830	1	10	73432	0	KED
|	**Ni**	**62**	**52.382**	ug/L	0.571	1	2	11691	0	KED
|	**Cu**	**63**	**53.232**	ug/L	1.745	3	12	203489	1	KED
|	**Cu**	**65**	**52.855**	ug/L	1.433	2	10	102731	0	KED
|	**Zn**	**66**	**53.194**	ug/L	1.136	2	20	28074	0	KED
|	**Zn**	**67**	**51.354**	ug/L	2.201	4	2	4478	2	KED
⌊	**As**	**75**	**49.582**	ug/L	1.327	2	3	13699	0	KED
	Kr	**83**		ug/L			45	50	9	Standard
⌈>	**In-1**	**115**		ug/L			8466	7968	2	KED
|	**Cd**	**111**	**52.053**	ug/L	1.431	2	1	14075	0	KED
⌊	**Cd**	**114**	**52.906**	ug/L	0.442	0	3	36290	2	KED
⌈>	**In**	**115**		ug/L			448865	449953	3	Standard
|	**Ag**	**107**	**45.191**	ug/L	1.998	4	40	711151	1	Standard
|	**Ba**	**135**	**45.689**	ug/L	0.752	1	11	271161	2	Standard
⌊	**Ba**	**137**	**44.108**	ug/L	1.306	2	19	490120	0	Standard
⌈>	**Tb**	**159**		ug/L			168501	169763	1	Standard
⌊	**Pb**	**208**	**53.053**	ug/L	0.593	1	172	4315405	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:09:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	42299	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	324014	2	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.004	35	12895	12291	2	Standard
|	**Cr**	**53**	**-0.006**	ug/L	0.010	156	187	166	11	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	1	424	384	2	Standard
⌈>	**Ge**	**72**		ug/L			35628	36283	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.003	1217	10	11	44	KED
|	**Ni**	**62**	**0.003**	ug/L	0.013	488	2	3	91	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	63	12	27	34	KED
|	**Cu**	**65**	**0.002**	ug/L	0.005	258	10	13	67	KED
|	**Zn**	**66**	**0.001**	ug/L	0.015	2913	20	20	39	KED
|	**Zn**	**67**	**0.020**	ug/L	0.031	156	2	4	65	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.005	2146	3	3	43	KED
	Kr	**83**		ug/L			45	43	4	Standard
⌈>	**In-1**	**115**		ug/L			8466	8302	2	KED
|	**Cd**	**111**	**0.009**	ug/L	0.005	52	1	4	35	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	386	3	4	67	KED
⌈>	**In**	**115**		ug/L			448865	450959	3	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	136	40	56	41	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	132	11	14	30	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.000	91	19	24	15	Standard
⌈>	**Tb**	**159**		ug/L			168501	165161	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	16	172	229	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:15:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42090	52300	1	Standard
>	Sc	45		ug/L			332961	356794	1	Standard
	Cr	52	0.610	ug/L	0.013	2	12895	28735	2	Standard
	Cr	53	2.613	ug/L	0.100	3	187	7208	4	Standard
	Mn	55	0.119	ug/L	0.003	2	424	4680	1	Standard
>	Ge	72		ug/L			35628	32041	0	KED
	Ni	60	0.621	ug/L	0.036	5	10	816	5	KED
	Ni	62	0.681	ug/L	0.002	0	2	143	0	KED
	Cu	63	0.187	ug/L	0.009	4	12	675	4	KED
	Cu	65	0.195	ug/L	0.014	6	10	361	6	KED
	Zn	66	0.315	ug/L	0.062	19	20	172	17	KED
	Zn	67	0.937	ug/L	0.156	16	2	78	15	KED
	As	75	20.112	ug/L	0.129	0	3	5162	1	KED
	Kr	83		ug/L			45	33	25	Standard
>	In-1	115		ug/L			8466	7504	1	KED
	Cd	111	0.024	ug/L	0.007	29	1	7	25	KED
	Cd	114	0.011	ug/L	0.003	30	3	10	21	KED
>	In	115		ug/L			448865	419320	1	Standard
	Ag	107	0.000	ug/L	0.001	239	40	41	25	Standard
	Ba	135	7.144	ug/L	0.105	1	11	39531	0	Standard
	Ba	137	6.762	ug/L	0.169	2	19	70067	1	Standard
>	Tb	159		ug/L			168501	155378	0	Standard
	Pb	208	0.006	ug/L	0.001	10	172	637	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-04
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:23:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	48545	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	320770	1	Standard
|	**Cr**	**52**	**7.376**	ug/L	0.083	1	12895	174567	0	Standard
|	**Cr**	**53**	**8.209**	ug/L	0.082	1	187	19964	2	Standard
⌊	**Mn**	**55**	**0.300**	ug/L	0.005	1	424	9974	2	Standard
⌈>	**Ge**	**72**		ug/L			35628	34764	0	KED
|	**Ni**	**60**	**0.364**	ug/L	0.010	2	10	524	3	KED
|	**Ni**	**62**	**0.364**	ug/L	0.020	5	2	84	5	KED
|	**Cu**	**63**	**0.030**	ug/L	0.004	13	12	128	12	KED
|	**Cu**	**65**	**0.036**	ug/L	0.009	25	10	80	21	KED
|	**Zn**	**66**	**0.094**	ug/L	0.026	27	20	69	19	KED
|	**Zn**	**67**	**0.102**	ug/L	0.076	74	2	11	57	KED
⌊	**As**	**75**	**1.011**	ug/L	0.056	5	3	284	5	KED
	Kr	**83**		ug/L			45	40	4	Standard
⌈>	**In-1**	**115**		ug/L			8466	8083	1	KED
|	**Cd**	**111**	**0.008**	ug/L	0.000	2	1	3	0	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.000	23	3	3	2	KED
⌈>	**In**	**115**		ug/L			448865	426257	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	51	40	19	52	Standard
|	**Ba**	**135**	**0.338**	ug/L	0.007	1	11	1913	2	Standard
⌊	**Ba**	**137**	**0.319**	ug/L	0.005	1	19	3376	2	Standard
⌈>	**Tb**	**159**		ug/L			168501	162748	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	13	172	264	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-08
Sample Dil Factor: 50
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:27:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	48889	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	325697	0	Standard
|	**Cr**	**52**	**5.646**	ug/L	0.053	0	12895	138635	0	Standard
|	**Cr**	**53**	**6.214**	ug/L	0.037	0	187	15387	0	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.000	4	424	722	2	Standard
⌈>	**Ge**	**72**		ug/L			35628	34543	0	KED
|	**Ni**	**60**	**0.247**	ug/L	0.015	6	10	356	6	KED
|	**Ni**	**62**	**0.256**	ug/L	0.027	10	2	59	9	KED
|	**Cu**	**63**	**0.031**	ug/L	0.003	8	12	129	7	KED
|	**Cu**	**65**	**0.034**	ug/L	0.007	18	10	76	16	KED
|	**Zn**	**66**	**0.473**	ug/L	0.030	6	20	269	5	KED
|	**Zn**	**67**	**0.394**	ug/L	0.078	19	2	36	18	KED
⌊	**As**	**75**	**1.092**	ug/L	0.061	5	3	305	5	KED
	Kr	**83**		ug/L			45	38	19	Standard
⌈>	**In-1**	**115**		ug/L			8466	7880	0	KED
|	**Cd**	**111**	**0.000**	ug/L	0.002	501	1	1	34	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	104	3	2	41	KED
⌈>	**In**	**115**		ug/L			448865	433236	2	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	26	40	25	11	Standard
|	**Ba**	**135**	**0.278**	ug/L	0.006	2	11	1597	0	Standard
⌊	**Ba**	**137**	**0.267**	ug/L	0.009	3	19	2877	1	Standard
⌈>	**Tb**	**159**		ug/L			168501	161495	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	2	172	500	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:32:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	47524	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	327851	2	Standard
|	**Cr**	**52**	**2.057**	ug/L	0.062	3	12895	58899	1	Standard
|	**Cr**	**53**	**3.096**	ug/L	0.066	2	187	7809	1	Standard
⌊	**Mn**	**55**	**0.375**	ug/L	0.013	3	424	12638	3	Standard
⌈>	**Ge**	**72**		ug/L			35628	32720	2	KED
|	**Ni**	**60**	**0.102**	ug/L	0.017	16	10	145	13	KED
|	**Ni**	**62**	**0.122**	ug/L	0.049	40	2	27	34	KED
|	**Cu**	**63**	**0.081**	ug/L	0.005	5	12	304	6	KED
|	**Cu**	**65**	**0.086**	ug/L	0.006	6	10	166	4	KED
|	**Zn**	**66**	**0.078**	ug/L	0.008	9	20	57	6	KED
|	**Zn**	**67**	**0.210**	ug/L	0.060	28	2	19	24	KED
⌊	**As**	**75**	**7.798**	ug/L	0.153	1	3	2045	2	KED
	Kr	**83**		ug/L			45	38	12	Standard
⌈>	**In-1**	**115**		ug/L			8466	7701	0	KED
|	**Cd**	**111**	**0.018**	ug/L	0.014	78	1	6	59	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	81	3	8	48	KED
⌈>	**In**	**115**		ug/L			448865	425752	0	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	115	40	27	41	Standard
|	**Ba**	**135**	**0.619**	ug/L	0.016	2	11	3489	3	Standard
⌊	**Ba**	**137**	**0.571**	ug/L	0.009	1	19	6025	1	Standard
⌈>	**Tb**	**159**		ug/L			168501	159571	1	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	4	172	584	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-04
Sample Dil Factor: 10
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:37:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	47730	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	327913	2	Standard
|	**Cr**	**52**	**0.625**	ug/L	0.030	4	12895	26739	0	Standard
|	**Cr**	**53**	**2.347**	ug/L	0.050	2	187	5966	3	Standard
⌊	**Mn**	**55**	**0.064**	ug/L	0.001	1	424	2507	2	Standard
⌈>	**Ge**	**72**		ug/L			35628	30481	2	KED
|	**Ni**	**60**	**0.190**	ug/L	0.027	14	10	245	15	KED
|	**Ni**	**62**	**0.215**	ug/L	0.035	16	2	44	13	KED
|	**Cu**	**63**	**0.079**	ug/L	0.008	10	12	278	8	KED
|	**Cu**	**65**	**0.077**	ug/L	0.014	17	10	140	17	KED
|	**Zn**	**66**	**0.143**	ug/L	0.030	21	20	83	14	KED
|	**Zn**	**67**	**0.377**	ug/L	0.049	12	2	31	9	KED
⌊	**As**	**75**	**2.965**	ug/L	0.089	3	3	726	3	KED
	Kr	**83**		ug/L			45	68	7	Standard
⌈>	**In-1**	**115**		ug/L			8466	7063	2	KED
|	**Cd**	**111**	**0.012**	ug/L	0.005	42	1	4	26	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.000	15	3	3	0	KED
⌈>	**In**	**115**		ug/L			448865	407878	1	Standard
|	**Ag**	**107**	**-0.002**	ug/L	0.000	24	40	14	37	Standard
|	**Ba**	**135**	**2.081**	ug/L	0.047	2	11	11205	0	Standard
⌊	**Ba**	**137**	**1.954**	ug/L	0.041	2	19	19707	1	Standard
⌈>	**Tb**	**159**		ug/L			168501	153180	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	6	172	267	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:42:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			42090	70596	2	Standard
> Sc	45		ug/L			332961	437667	1	Standard
Cr	52	-0.067	ug/L	0.002	3	12895	14927	1	Standard
Cr	53	0.125	ug/L	0.010	7	187	658	6	Standard
Mn	55	508.121	ug/L	6.931	1	424	22107272	2	Standard
> Ge	72		ug/L			35628	33171	0	KED
Ni	60	1.112	ug/L	0.040	3	10	1505	3	KED
Ni	62	1.164	ug/L	0.061	5	2	252	5	KED
Cu	63	0.053	ug/L	0.008	15	12	207	14	KED
Cu	65	0.055	ug/L	0.012	22	10	112	20	KED
Zn	66	0.208	ug/L	0.015	7	20	124	6	KED
Zn	67	0.585	ug/L	0.126	21	2	51	20	KED
As	75	0.454	ug/L	0.042	9	3	123	8	KED
Kr	83		ug/L			45	57	10	Standard
> In-1	115		ug/L			8466	7545	2	KED
Cd	111	0.014	ug/L	0.010	68	1	5	47	KED
Cd	114	-0.001	ug/L	0.002	330	3	2	36	KED
> In	115		ug/L			448865	437788	1	Standard
Ag	107	-0.001	ug/L	0.000	35	40	27	15	Standard
Ba	135	5.646	ug/L	0.072	1	11	32620	1	Standard
Ba	137	5.339	ug/L	0.108	2	19	57759	0	Standard
> Tb	159		ug/L			168501	165429	0	Standard
Pb	208	0.004	ug/L	0.000	8	172	477	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:47:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			42090	71387	0	Standard
> Sc	45		ug/L			332961	443812	1	Standard
Cr	52	-0.068	ug/L	0.006	9	12895	15110	1	Standard
Cr	53	0.117	ug/L	0.002	1	187	640	0	Standard
Mn	55	521.770	ug/L	5.051	0	424	23018673	2	Standard
> Ge	72		ug/L			35628	32218	13	KED
Ni	60	1.192	ug/L	0.116	9	10	1553	4	KED
Ni	62	1.176	ug/L	0.166	14	2	244	5	KED
Cu	63	0.030	ug/L	0.002	5	12	119	17	KED
Cu	65	0.037	ug/L	0.003	9	10	75	12	KED
Zn	66	0.227	ug/L	0.034	15	20	129	15	KED
Zn	67	0.514	ug/L	0.190	37	2	43	37	KED
As	75	0.518	ug/L	0.057	10	3	135	5	KED
Kr	83		ug/L			45	65	23	Standard
> In-1	115		ug/L			8466	7883	4	KED
Cd	111	0.002	ug/L	0.000	21	1	1		KED
Cd	114	-0.003	ug/L	0.003	99	3	1	124	KED
> In	115		ug/L			448865	434051	3	Standard
Ag	107	-0.000	ug/L	0.001	1373	40	38	30	Standard
Ba	135	5.771	ug/L	0.180	3	11	33038	1	Standard
Ba	137	5.561	ug/L	0.151	2	19	59628	0	Standard
> Tb	159		ug/L			168501	165671	0	Standard
Pb	208	0.003	ug/L	0.000	4	172	405	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:51:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			42090	72202	0	Standard
> Sc	45		ug/L			332961	462187	1	Standard
Cr	52	3.572	ug/L	0.061	1	12895	131028	1	Standard
Cr	53	3.915	ug/L	0.032	0	187	13852	0	Standard
Mn	55	509.984	ug/L	8.970	1	424	23427369	1	Standard
> Ge	72		ug/L			35628	34548	1	KED
Ni	60	6.410	ug/L	0.118	1	10	8991	1	KED
Ni	62	6.161	ug/L	0.106	1	2	1379	2	KED
Cu	63	5.418	ug/L	0.103	1	12	20754	2	KED
Cu	65	5.288	ug/L	0.074	1	10	10300	0	KED
Zn	66	17.741	ug/L	0.543	3	20	9387	2	KED
Zn	67	16.561	ug/L	0.933	5	2	1447	4	KED
As	75	5.669	ug/L	0.046	0	3	1571	2	KED
Kr	83		ug/L			45	64	16	Standard
> In-1	115		ug/L			8466	7940	1	KED
Cd	111	5.395	ug/L	0.103	1	1	1455	2	KED
Cd	114	5.263	ug/L	0.142	2	3	3600	2	KED
> In	115		ug/L			448865	446477	3	Standard
Ag	107	2.929	ug/L	0.027	0	40	45802	2	Standard
Ba	135	10.484	ug/L	0.341	3	11	61719	0	Standard
Ba	137	10.141	ug/L	0.316	3	19	111820	1	Standard
> Tb	159		ug/L			168501	170696	0	Standard
Pb	208	5.338	ug/L	0.085	1	172	436800	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-MSD2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 20:56:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42090	95606	1	Standard
>	Sc	45		ug/L			332961	450474	3	Standard
	Cr	52	3.727	ug/L	0.114	3	12895	132425	1	Standard
	Cr	53	4.039	ug/L	0.051	1	187	13919	2	Standard
	Mn	55	510.734	ug/L	12.728	2	424	22856765	1	Standard
>	Ge	72		ug/L			35628	34841	0	KED
	Ni	60	6.663	ug/L	0.158	2	10	9425	2	KED
	Ni	62	6.766	ug/L	0.218	3	2	1527	3	KED
	Cu	63	5.651	ug/L	0.050	0	12	21828	0	KED
	Cu	65	5.542	ug/L	0.130	2	10	10886	2	KED
	Zn	66	17.477	ug/L	0.397	2	20	9328	2	KED
	Zn	67	17.318	ug/L	0.369	2	2	1527	1	KED
	As	75	5.815	ug/L	0.052	0	3	1625	0	KED
	Kr	83		ug/L			45	65	37	Standard
>	In-1	115		ug/L			8466	7886	1	KED
	Cd	111	5.500	ug/L	0.161	2	1	1473	2	KED
	Cd	114	5.709	ug/L	0.102	1	3	3879	1	KED
>	In	115		ug/L			448865	426508	2	Standard
	Ag	107	3.413	ug/L	0.035	1	40	50989	2	Standard
	Ba	135	10.864	ug/L	0.031	0	11	61145	2	Standard
	Ba	137	10.452	ug/L	0.155	1	19	110153	1	Standard
>	Tb	159		ug/L			168501	165456	0	Standard
	Pb	208	5.581	ug/L	0.042	0	172	442650	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:00:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	53251	0	Standard
⌈>	**Sc**	**45**		ug/L			332961	325225	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.007	166	12895	12687	1	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.008	195	187	173	12	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.001	10	424	720	6	Standard
⌈>	**Ge**	**72**		ug/L			35628	35314	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	6081	10	10	56	KED
|	**Ni**	**62**	**0.011**	ug/L	0.013	114	2	5	57	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	45	12	36	29	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	62	10	16	24	KED
|	**Zn**	**66**	**0.166**	ug/L	0.016	9	20	109	7	KED
|	**Zn**	**67**	**0.085**	ug/L	0.032	37	2	10	28	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.004	113	3	2	58	KED
	Kr	**83**		ug/L			45	40	40	Standard
⌈>	**In-1**	**115**		ug/L			8466	7995	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.004	33	1	5	21	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	252	3	4	49	KED
⌈>	**In**	**115**		ug/L			448865	437984	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	33	40	29	9	Standard
|	**Ba**	**135**	**0.010**	ug/L	0.002	24	11	66	18	Standard
⌊	**Ba**	**137**	**0.010**	ug/L	0.001	12	19	126	12	Standard
⌈>	**Tb**	**159**		ug/L			168501	163101	0	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	5	172	530	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:05:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	47786	2	Standard
⌈>	**Sc**	**45**		ug/L			332961	334412	2	Standard
|	**Cr**	**52**	**48.035**	ug/L	0.975	2	12895	1113580	0	Standard
|	**Cr**	**53**	**50.321**	ug/L	1.009	2	187	126584	0	Standard
⌊	**Mn**	**55**	**49.267**	ug/L	0.882	1	424	1637587	0	Standard
⌈>	**Ge**	**72**		ug/L			35628	36436	0	KED
|	**Ni**	**60**	**50.588**	ug/L	0.832	1	10	74766	1	KED
|	**Ni**	**62**	**50.542**	ug/L	0.700	1	2	11912	0	KED
|	**Cu**	**63**	**51.479**	ug/L	0.931	1	12	207845	1	KED
|	**Cu**	**65**	**51.241**	ug/L	0.707	1	10	105191	1	KED
|	**Zn**	**66**	**51.907**	ug/L	1.181	2	20	28931	1	KED
|	**Zn**	**67**	**52.131**	ug/L	1.746	3	2	4801	2	KED
⌊	**As**	**75**	**48.479**	ug/L	0.486	1	3	14147	1	KED
	Kr	**83**		ug/L			45	43	31	Standard
⌈>	**In-1**	**115**		ug/L			8466	8246	2	KED
|	**Cd**	**111**	**51.464**	ug/L	0.597	1	1	14408	2	KED
⌊	**Cd**	**114**	**52.063**	ug/L	1.573	3	3	36945	0	KED
⌈>	**In**	**115**		ug/L			448865	426451	2	Standard
|	**Ag**	**107**	**47.034**	ug/L	1.428	3	40	701805	1	Standard
|	**Ba**	**135**	**48.092**	ug/L	1.046	2	11	270504	0	Standard
⌊	**Ba**	**137**	**46.543**	ug/L	1.325	2	19	490268	0	Standard
⌈>	**Tb**	**159**		ug/L			168501	167617	1	Standard
⌊	**Pb**	**208**	**52.950**	ug/L	1.170	2	172	4252260	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:12:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42090	45868	1	Standard
⌈>	**Sc**	**45**		ug/L			332961	332999	0	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.018	269	12895	13047	2	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.003	27	187	163	4	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	23	424	545	4	Standard
⌈>	**Ge**	**72**		ug/L			35628	37183	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.002	124	10	8	32	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.009	1712	2	2	86	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	75	12	27	39	KED
|	**Cu**	**65**	**0.000**	ug/L	0.000	534	10	10	10	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.013	255	20	18	39	KED
|	**Zn**	**67**	**0.006**	ug/L	0.031	537	2	3	91	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.003	721	3	3	31	KED
	Kr	**83**		ug/L			45	42	21	Standard
⌈>	**In-1**	**115**		ug/L			8466	8876	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.007	132	1	3	62	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	44	3	1	93	KED
⌈>	**In**	**115**		ug/L			448865	446461	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	68	40	64	25	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.001	453	11	10	54	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	266	19	24	50	Standard
⌈>	**Tb**	**159**		ug/L			168501	163711	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	43	172	267	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:22:08

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				44394	1	Standard
>	**Sc**	**45**		ug/L				294037	11	Standard
	Cr	**52**		ug/L				13085	5	Standard
	Cr	**53**		ug/L				150	10	Standard
>	**Ge**	**72**		ug/L				37522	1	KED
	Ni	**60**		ug/L				6	45	KED
	Ni	**62**		ug/L				1	86	KED
	Cu	**63**		ug/L				27	10	KED
	Cu	**65**		ug/L				9	34	KED
	Zn	**66**		ug/L				19	10	KED
	Zn	**67**		ug/L				3	50	KED
	As	**75**		ug/L				1	33	KED
	Kr	**83**		ug/L				56	7	Standard
>	**In-1**	**115**		ug/L				8889	0	KED
	Cd	**111**		ug/L				5	16	KED
	Cd	**114**		ug/L				5	22	KED
>	**Tb**	**159**		ug/L				151668	11	Standard
	Pb	**208**		ug/L				135	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:28:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				43915	1	Standard
>	**Sc**	**45**		ug/L				332530	1	Standard
	Cr	**52**		ug/L				13137	2	Standard
	Cr	**53**		ug/L				163	8	Standard
>	**Ge**	**72**		ug/L				37776	1	KED
	Ni	**60**		ug/L				3	100	KED
	Ni	**62**		ug/L				0	173	KED
	Cu	**63**		ug/L				18	23	KED
	Cu	**65**		ug/L				6	41	KED
	Zn	**66**		ug/L				19	14	KED
	Zn	**67**		ug/L				3	50	KED
	As	**75**		ug/L				3	27	KED
	Kr	**83**		ug/L				41	37	Standard
>	**In-1**	**115**		ug/L				8842	2	KED
	Cd	**111**		ug/L				3	56	KED
	Cd	**114**		ug/L				3	52	KED
>	**Tb**	**159**		ug/L				167464	1	Standard
	Pb	**208**		ug/L				168	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:32:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	44013	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	345315	1	Standard
|	**Cr**	**52**	**48.430**	ug/L	0.364	0	13137	1159781	1	Standard
⌊	**Cr**	**53**	**50.466**	ug/L	0.276	0	163	131090	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	37535	1	KED
|	**Ni**	**60**	**51.615**	ug/L	0.193	0	3	78581	1	KED
|	**Ni**	**62**	**51.720**	ug/L	1.419	2	0	12552	1	KED
|	**Cu**	**63**	**51.953**	ug/L	1.352	2	18	216053	1	KED
|	**Cu**	**65**	**51.914**	ug/L	0.930	1	6	109764	0	KED
|	**Zn**	**66**	**52.174**	ug/L	0.673	1	19	29953	0	KED
|	**Zn**	**67**	**51.599**	ug/L	1.919	3	3	4896	2	KED
⌊	**As**	**75**	**49.265**	ug/L	1.350	2	3	14806	1	KED
	Kr	**83**		ug/L			41	43	35	Standard
⌈>	**In-1**	**115**		ug/L			8842	8388	3	KED
|	**Cd**	**111**	**53.409**	ug/L	1.286	2	3	15204	0	KED
⌊	**Cd**	**114**	**53.226**	ug/L	1.663	3	3	38412	1	KED
⌈>	**Tb**	**159**		ug/L			167464	178280	0	Standard
⌊	**Pb**	**208**	**51.042**	ug/L	0.222	0	168	4360458	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:39:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43824	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	333583	3	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.015	167	13137	13372	1	Standard
⌊	**Cr**	**53**	**0.007**	ug/L	0.004	49	163	181	8	Standard
⌈>	**Ge**	**72**		ug/L			37776	38104	1	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	55	3	14	39	KED
|	**Ni**	**62**	**0.015**	ug/L	0.004	28	0	4	24	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	79	18	29	29	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	38	6	17	22	KED
|	**Zn**	**66**	**0.027**	ug/L	0.020	72	19	35	32	KED
|	**Zn**	**67**	**0.032**	ug/L	0.063	196	3	6	87	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	196	3	4	34	KED
	Kr	**83**		ug/L			41	38	46	Standard
⌈>	**In-1**	**115**		ug/L			8842	8742	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	190	3	3	17	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	316	3	3	71	KED
⌈>	**Tb**	**159**		ug/L			167464	166881	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	19	168	325	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:43:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	62037	1	Standard
>	Sc	45		ug/L			332530	347080	2	Standard
	Cr	52	0.031	ug/L	0.005	16	13137	14448	1	Standard
	Cr	53	0.005	ug/L	0.010	215	163	181	12	Standard
>	Ge	72		ug/L			37776	38309	1	KED
	Ni	60	0.007	ug/L	0.004	59	3	13	41	KED
	Ni	62	0.013	ug/L	0.008	61	0	3	50	KED
	Cu	63	0.125	ug/L	0.012	9	18	551	10	KED
	Cu	65	0.115	ug/L	0.014	12	6	255	12	KED
	Zn	66	33.926	ug/L	0.792	2	19	19883	0	KED
	Zn	67	32.362	ug/L	1.440	4	3	3136	4	KED
	As	75	0.006	ug/L	0.004	59	3	5	19	KED
	Kr	83		ug/L			41	43	11	Standard
>	In-1	115		ug/L			8842	8684	1	KED
	Cd	111	0.007	ug/L	0.002	28	3	5	10	KED
	Cd	114	0.002	ug/L	0.004	194	3	5	61	KED
>	Tb	159		ug/L			167464	175053	1	Standard
	Pb	208	0.018	ug/L	0.000	2	168	1720	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:48:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	55964	1	Standard
>	Sc	45		ug/L			332530	348781	1	Standard
	Cr	52	25.581	ug/L	0.308	1	13137	625219	0	Standard
	Cr	53	26.533	ug/L	0.436	1	163	69689	0	Standard
>	Ge	72		ug/L			37776	37596	1	KED
	Ni	60	27.129	ug/L	0.800	2	3	41364	2	KED
	Ni	62	27.295	ug/L	0.314	1	0	6637	0	KED
	Cu	63	28.464	ug/L	0.375	1	18	118589	0	KED
	Cu	65	27.649	ug/L	0.309	1	6	58563	0	KED
	Zn	66	83.613	ug/L	1.820	2	19	48068	1	KED
	Zn	67	79.563	ug/L	0.952	1	3	7561	0	KED
	As	75	24.908	ug/L	0.390	1	3	7501	0	KED
	Kr	83		ug/L			41	52	11	Standard
>	In-1	115		ug/L			8842	8766	3	KED
	Cd	111	25.724	ug/L	1.511	5	3	7649	3	KED
	Cd	114	25.913	ug/L	1.096	4	3	19540	1	KED
>	Tb	159		ug/L			167464	175745	2	Standard
	Pb	208	27.587	ug/L	0.599	2	168	2322573	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0208-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:52:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	68316	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	346906	0	Standard
|	**Cr**	**52**	**0.167**	ug/L	0.013	8	13137	17663	1	Standard
⌊	**Cr**	**53**	**0.165**	ug/L	0.011	6	163	600	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	38158	1	KED
|	**Ni**	**60**	**0.021**	ug/L	0.002	8	3	36	7	KED
|	**Ni**	**62**	**0.031**	ug/L	0.019	61	0	8	58	KED
|	**Cu**	**63**	**0.065**	ug/L	0.006	9	18	292	10	KED
|	**Cu**	**65**	**0.074**	ug/L	0.012	16	6	165	14	KED
|	**Zn**	**66**	**0.800**	ug/L	0.018	2	19	486	2	KED
|	**Zn**	**67**	**0.665**	ug/L	0.024	3	3	67	1	KED
⌊	**As**	**75**	**0.002**	ug/L	0.001	70	3	4	11	KED
	Kr	**83**		ug/L			41	37	25	Standard
⌈>	**In-1**	**115**		ug/L			8842	8908	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.008	128	3	5	44	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	342	3	4	54	KED
⌈>	**Tb**	**159**		ug/L			167464	175571	0	Standard
⌊	**Pb**	**208**	**0.016**	ug/L	0.000	0	168	1534	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0208-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 21:56:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	70513	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	340977	0	Standard
|	**Cr**	**52**	**26.792**	ug/L	0.741	2	13137	639498	2	Standard
⌊	**Cr**	**53**	**27.440**	ug/L	0.720	2	163	70453	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	37350	0	KED
|	**Ni**	**60**	**27.844**	ug/L	0.715	2	3	42182	2	KED
|	**Ni**	**62**	**27.618**	ug/L	0.845	3	0	6672	2	KED
|	**Cu**	**63**	**29.062**	ug/L	0.250	0	18	120299	0	KED
|	**Cu**	**65**	**28.942**	ug/L	0.654	2	6	60904	2	KED
|	**Zn**	**66**	**85.225**	ug/L	0.981	1	19	48680	0	KED
|	**Zn**	**67**	**81.664**	ug/L	1.825	2	3	7710	2	KED
⌊	**As**	**75**	**24.868**	ug/L	0.445	1	3	7440	1	KED
	Kr	**83**		ug/L			41	46	13	Standard
⌈>	**In-1**	**115**		ug/L			8842	8589	0	KED
|	**Cd**	**111**	**27.026**	ug/L	0.307	1	3	7884	1	KED
⌊	**Cd**	**114**	**27.268**	ug/L	0.351	1	3	20164	0	KED
⌈>	**Tb**	**159**		ug/L			167464	174528	2	Standard
⌊	**Pb**	**208**	**28.417**	ug/L	0.753	2	168	2375611	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0208-SRL1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:00:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	56294	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	364897	2	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.015	42	13137	15263	0	Standard
⌊	**Cr**	**53**	**0.110**	ug/L	0.011	10	163	479	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	38320	0	KED
|	**Ni**	**60**	**0.053**	ug/L	0.010	18	3	86	17	KED
|	**Ni**	**62**	**0.084**	ug/L	0.004	4	0	21	5	KED
|	**Cu**	**63**	**0.222**	ug/L	0.008	3	18	960	3	KED
|	**Cu**	**65**	**0.205**	ug/L	0.030	14	6	449	14	KED
|	**Zn**	**66**	**3.738**	ug/L	0.074	1	19	2209	2	KED
|	**Zn**	**67**	**3.704**	ug/L	0.267	7	3	362	7	KED
⌊	**As**	**75**	**0.048**	ug/L	0.004	8	3	18	6	KED
	Kr	**83**		ug/L			41	52	4	Standard
⌈>	**In-1**	**115**		ug/L			8842	8883	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.003	109	3	4	24	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	188	3	4	43	KED
⌈>	**Tb**	**159**		ug/L			167464	176441	0	Standard
⌊	**Pb**	**208**	**0.039**	ug/L	0.001	3	168	3494	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0242-05RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:05:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	76912	1	Standard
>	Sc	45		ug/L			332530	444365	1	Standard
	Cr	52	0.100	ug/L	0.010	10	13137	20587	0	Standard
	Cr	53	0.437	ug/L	0.013	2	163	1677	3	Standard
>	Ge	72		ug/L			37776	36973	1	KED
	Ni	60	0.239	ug/L	0.021	8	3	362	7	KED
	Ni	62	0.228	ug/L	0.014	6	0	55	6	KED
	Cu	63	1.050	ug/L	0.032	3	18	4317	2	KED
	Cu	65	1.030	ug/L	0.044	4	6	2152	4	KED
	Zn	66	17.774	ug/L	0.160	0	19	10065	1	KED
	Zn	67	16.568	ug/L	0.542	3	3	1551	2	KED
	As	75	0.226	ug/L	0.025	11	3	70	10	KED
	Kr	83		ug/L			41	36	32	Standard
>	In-1	115		ug/L			8842	8602	0	KED
	Cd	111	0.022	ug/L	0.012	55	3	9	36	KED
	Cd	114	0.018	ug/L	0.009	51	3	16	41	KED
>	Tb	159		ug/L			167464	174508	0	Standard
	Pb	208	0.062	ug/L	0.002	3	168	5375	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0208-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:09:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	76857	1	Standard
>	Sc	45		ug/L			332530	437824	3	Standard
	Cr	52	0.059	ug/L	0.022	37	13137	19067	1	Standard
	Cr	53	0.387	ug/L	0.008	2	163	1488	2	Standard
>	Ge	72		ug/L			37776	37707	0	KED
	Ni	60	0.227	ug/L	0.013	5	3	351	6	KED
	Ni	62	0.203	ug/L	0.038	18	0	50	19	KED
	Cu	63	0.998	ug/L	0.019	1	18	4186	1	KED
	Cu	65	0.977	ug/L	0.025	2	6	2082	2	KED
	Zn	66	16.419	ug/L	0.148	0	19	9484	1	KED
	Zn	67	15.015	ug/L	0.185	1	3	1434	1	KED
	As	75	0.223	ug/L	0.018	8	3	70	7	KED
	Kr	83		ug/L			41	32	11	Standard
>	In-1	115		ug/L			8842	8683	4	KED
	Cd	111	0.023	ug/L	0.017	71	3	10	44	KED
	Cd	114	0.016	ug/L	0.005	28	3	15	19	KED
>	Tb	159		ug/L			167464	174167	0	Standard
	Pb	208	0.066	ug/L	0.001	0	168	5688	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0208-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:13:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	75146	1	Standard
>	Sc	45		ug/L			332530	449351	2	Standard
	Cr	52	19.623	ug/L	0.227	1	13137	621972	1	Standard
	Cr	53	20.787	ug/L	0.318	1	163	70380	1	Standard
>	Ge	72		ug/L			37776	36643	1	KED
	Ni	60	27.907	ug/L	0.176	0	3	41481	1	KED
	Ni	62	27.534	ug/L	0.652	2	0	6524	1	KED
	Cu	63	29.770	ug/L	0.496	1	18	120886	0	KED
	Cu	65	29.215	ug/L	0.054	0	6	60316	1	KED
	Zn	66	102.880	ug/L	2.940	2	19	57638	2	KED
	Zn	67	97.201	ug/L	3.698	3	3	9000	2	KED
	As	75	26.102	ug/L	0.599	2	3	7661	1	KED
	Kr	83		ug/L			41	53	25	Standard
>	In-1	115		ug/L			8842	8348	3	KED
	Cd	111	27.232	ug/L	1.149	4	3	7713	0	KED
	Cd	114	26.870	ug/L	1.264	4	3	19293	1	KED
>	Tb	159		ug/L			167464	174115	1	Standard
	Pb	208	27.929	ug/L	0.331	1	168	2330062	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0208-PS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:18:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	74500	2	Standard
>	Sc	45		ug/L			332530	448428	2	Standard
	Cr	52	18.411	ug/L	0.505	2	13137	583315	0	Standard
	Cr	53	19.610	ug/L	0.368	1	163	66270	1	Standard
>	Ge	72		ug/L			37776	36582	0	KED
	Ni	60	26.321	ug/L	0.770	2	3	39050	2	KED
	Ni	62	26.246	ug/L	0.679	2	0	6209	1	KED
	Cu	63	28.038	ug/L	0.651	2	18	113662	1	KED
	Cu	65	27.689	ug/L	0.520	1	6	57068	1	KED
	Zn	66	97.332	ug/L	0.474	0	19	54451	1	KED
	Zn	67	91.477	ug/L	0.614	0	3	8459	0	KED
	As	75	24.170	ug/L	0.230	0	3	7083	1	KED
	Kr	83		ug/L			41	48	25	Standard
>	In-1	115		ug/L			8842	8407	1	KED
	Cd	111	25.243	ug/L	0.734	2	3	7204	0	KED
	Cd	114	25.620	ug/L	0.330	1	3	18542	1	KED
>	Tb	159		ug/L			167464	173813	0	Standard
	Pb	208	26.463	ug/L	0.021	0	168	2204193	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:22:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43198	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	330611	1	Standard
|	**Cr**	**52**	**0.084**	ug/L	0.003	3	13137	14960	1	Standard
⌊	**Cr**	**53**	**0.018**	ug/L	0.007	39	163	206	8	Standard
⌈>	**Ge**	**72**		ug/L			37776	35888	2	KED
|	**Ni**	**60**	**0.004**	ug/L	0.004	113	3	8	65	KED
|	**Ni**	**62**	**0.017**	ug/L	0.005	28	0	4	24	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	62	18	27	21	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	49	6	16	29	KED
|	**Zn**	**66**	**0.026**	ug/L	0.011	44	19	33	20	KED
|	**Zn**	**67**	**0.002**	ug/L	0.054	3569	3	3	132	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	74	3	2	34	KED
	Kr	**83**		ug/L			41	43	15	Standard
⌈>	**In-1**	**115**		ug/L			8842	8399	0	KED
|	**Cd**	**111**	**0.012**	ug/L	0.012	100	3	6	49	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.003	26	3	12	17	KED
⌈>	**Tb**	**159**		ug/L			167464	167100	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	168	383	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:26:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43520	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	335932	2	Standard
|	**Cr**	**52**	**48.728**	ug/L	0.629	1	13137	1135038	1	Standard
⌊	**Cr**	**53**	**50.393**	ug/L	0.986	1	163	127316	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	36161	1	KED
|	**Ni**	**60**	**51.453**	ug/L	0.476	0	3	75462	1	KED
|	**Ni**	**62**	**52.383**	ug/L	1.697	3	0	12247	1	KED
|	**Cu**	**63**	**52.881**	ug/L	0.742	1	18	211893	1	KED
|	**Cu**	**65**	**51.554**	ug/L	1.263	2	6	105019	2	KED
|	**Zn**	**66**	**51.978**	ug/L	0.717	1	19	28748	0	KED
|	**Zn**	**67**	**52.618**	ug/L	2.696	5	3	4808	3	KED
⌊	**As**	**75**	**50.206**	ug/L	1.150	2	3	14536	0	KED
	Kr	**83**		ug/L			41	57	27	Standard
⌈>	**In-1**	**115**		ug/L			8842	8530	2	KED
|	**Cd**	**111**	**51.308**	ug/L	1.633	3	3	14855	1	KED
⌊	**Cd**	**114**	**50.964**	ug/L	1.073	2	3	37415	0	KED
⌈>	**Tb**	**159**		ug/L			167464	172417	0	Standard
⌊	**Pb**	**208**	**52.646**	ug/L	0.174	0	168	4349601	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:33:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	42389	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	334806	3	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.020	624	13137	13145	0	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.003	61	163	178	6	Standard
⌈>	**Ge**	**72**		ug/L			37776	37571	1	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	59	3	13	43	KED
|	**Ni**	**62**	**0.010**	ug/L	0.005	43	0	3	34	KED
|	**Cu**	**63**	**0.006**	ug/L	0.002	31	18	41	18	KED
|	**Cu**	**65**	**0.006**	ug/L	0.003	58	6	19	36	KED
|	**Zn**	**66**	**0.058**	ug/L	0.019	33	19	52	19	KED
|	**Zn**	**67**	**0.041**	ug/L	0.054	132	3	7	66	KED
⌊	**As**	**75**	**0.002**	ug/L	0.001	66	3	4	11	KED
	Kr	**83**		ug/L			41	43	14	Standard
⌈>	**In-1**	**115**		ug/L			8842	9047	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.005	138	3	4	34	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1193	3	3	52	KED
⌈>	**Tb**	**159**		ug/L			167464	169661	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	21	168	344	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0125-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:38:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	62547	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	345150	2	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.015	52	13137	14297	0	Standard
⌊	**Cr**	**53**	**0.007**	ug/L	0.007	98	163	187	7	Standard
⌈>	**Ge**	**72**		ug/L			37776	37095	0	KED
|	**Ni**	**60**	**0.006**	ug/L	0.003	43	3	12	31	KED
|	**Ni**	**62**	**0.008**	ug/L	0.009	114	0	2	86	KED
|	**Cu**	**63**	**0.109**	ug/L	0.004	3	18	464	3	KED
|	**Cu**	**65**	**0.107**	ug/L	0.015	14	6	231	14	KED
|	**Zn**	**66**	**0.297**	ug/L	0.047	15	19	187	13	KED
|	**Zn**	**67**	**0.211**	ug/L	0.030	14	3	23	12	KED
⌊	**As**	**75**	**0.003**	ug/L	0.006	196	3	4	37	KED
	Kr	**83**		ug/L			41	41	36	Standard
⌈>	**In-1**	**115**		ug/L			8842	8524	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.011	237	3	4	69	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.007	292	3	5	95	KED
⌈>	**Tb**	**159**		ug/L			167464	174714	0	Standard
⌊	**Pb**	**208**	**0.034**	ug/L	0.001	1	168	3057	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0125-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:42:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	56862	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	340124	0	Standard
|	**Cr**	**52**	**25.906**	ug/L	0.166	0	13137	617323	0	Standard
⌊	**Cr**	**53**	**26.617**	ug/L	0.150	0	163	68182	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	36992	2	KED
|	**Ni**	**60**	**26.317**	ug/L	0.848	3	3	39471	2	KED
|	**Ni**	**62**	**26.449**	ug/L	0.618	2	0	6326	1	KED
|	**Cu**	**63**	**27.689**	ug/L	0.479	1	18	113488	1	KED
|	**Cu**	**65**	**27.446**	ug/L	0.903	3	6	57177	2	KED
|	**Zn**	**66**	**81.047**	ug/L	2.298	2	19	45827	0	KED
|	**Zn**	**67**	**76.525**	ug/L	4.022	5	3	7149	2	KED
⌊	**As**	**75**	**24.424**	ug/L	0.752	3	3	7233	0	KED
	Kr	**83**		ug/L			41	50	10	Standard
⌈>	**In-1**	**115**		ug/L			8842	8795	2	KED
|	**Cd**	**111**	**25.001**	ug/L	0.805	3	3	7464	1	KED
⌊	**Cd**	**114**	**25.248**	ug/L	0.671	2	3	19110	0	KED
⌈>	**Tb**	**159**		ug/L			167464	173556	1	Standard
⌊	**Pb**	**208**	**28.160**	ug/L	0.718	2	168	2341304	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0233-07RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:46:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	74224	1	Standard
⌈>	Sc	45		ug/L			332530	399147	1	Standard
|	Cr	52	0.093	ug/L	0.012	13	13137	18319	1	Standard
⌊	Cr	53	0.364	ug/L	0.026	7	163	1287	6	Standard
⌈>	Ge	72		ug/L			37776	36948	1	KED
|	Ni	60	0.228	ug/L	0.012	5	3	345	6	KED
|	Ni	62	0.217	ug/L	0.059	27	0	52	28	KED
|	Cu	63	1.061	ug/L	0.005	0	18	4363	1	KED
|	Cu	65	1.099	ug/L	0.031	2	6	2293	1	KED
|	Zn	66	30.820	ug/L	0.640	2	19	17427	2	KED
|	Zn	67	28.194	ug/L	0.428	1	3	2635	1	KED
⌊	As	75	0.269	ug/L	0.030	11	3	83	9	KED
	Kr	83		ug/L			41	38	18	Standard
⌈>	In-1	115		ug/L			8842	8589	2	KED
|	Cd	111	0.015	ug/L	0.009	61	3	7	33	KED
⌊	Cd	114	0.014	ug/L	0.007	46	3	14	34	KED
⌈>	Tb	159		ug/L			167464	172580	0	Standard
⌊	Pb	208	0.164	ug/L	0.008	4	168	13754	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0234-07RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:51:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	76777	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	345129	2	Standard
|	**Cr**	**52**	**0.326**	ug/L	0.023	7	13137	21331	0	Standard
⌊	**Cr**	**53**	**0.321**	ug/L	0.013	4	163	1001	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	37771	0	KED
|	**Ni**	**60**	**0.357**	ug/L	0.033	9	3	550	9	KED
|	**Ni**	**62**	**0.416**	ug/L	0.050	12	0	102	11	KED
|	**Cu**	**63**	**2.900**	ug/L	0.056	1	18	12154	1	KED
|	**Cu**	**65**	**2.763**	ug/L	0.059	2	6	5886	2	KED
|	**Zn**	**66**	**40.410**	ug/L	0.822	2	19	23353	1	KED
|	**Zn**	**67**	**37.762**	ug/L	1.072	2	3	3608	3	KED
⌊	**As**	**75**	**0.132**	ug/L	0.005	4	3	43	3	KED
	Kr	**83**		ug/L			41	40	12	Standard
⌈>	**In-1**	**115**		ug/L			8842	8686	2	KED
|	**Cd**	**111**	**0.066**	ug/L	0.004	6	3	22	7	KED
⌊	**Cd**	**114**	**0.062**	ug/L	0.008	13	3	50	14	KED
⌈>	**Tb**	**159**		ug/L			167464	173154	0	Standard
⌊	**Pb**	**208**	**0.203**	ug/L	0.003	1	168	17028	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0241-02RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:55:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	74576	1	Standard
> Sc	45		ug/L			332530	443077	2	Standard
Cr	52	0.039	ug/L	0.009	23	13137	18677	1	Standard
Cr	53	1.115	ug/L	0.023	2	163	3929	4	Standard
> Ge	72		ug/L			37776	36516	1	KED
Ni	60	0.167	ug/L	0.009	5	3	251	5	KED
Ni	62	0.180	ug/L	0.012	6	0	43	6	KED
Cu	63	0.681	ug/L	0.035	5	18	2774	4	KED
Cu	65	0.676	ug/L	0.030	4	6	1396	3	KED
Zn	66	5.417	ug/L	0.076	1	19	3042	0	KED
Zn	67	5.476	ug/L	0.418	7	3	509	8	KED
As	75	0.179	ug/L	0.017	9	3	55	9	KED
Kr	83		ug/L			41	43	30	Standard
> In-1	115		ug/L			8842	8398	0	KED
Cd	111	0.024	ug/L	0.010	42	3	10	28	KED
Cd	114	0.036	ug/L	0.006	17	3	29	15	KED
> Tb	159		ug/L			167464	172232	0	Standard
Pb	208	0.058	ug/L	0.002	3	168	4934	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0241-04RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 22:59:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	75881	0	Standard
> Sc	45		ug/L			332530	435318	0	Standard
Cr	52	0.044	ug/L	0.004	9	13137	18495	0	Standard
Cr	53	0.549	ug/L	0.027	4	163	2008	4	Standard
> Ge	72		ug/L			37776	35980	0	KED
Ni	60	0.261	ug/L	0.012	4	3	384	4	KED
Ni	62	0.300	ug/L	0.033	10	0	70	10	KED
Cu	63	0.431	ug/L	0.014	3	18	1737	3	KED
Cu	65	0.428	ug/L	0.017	3	6	873	4	KED
Zn	66	3.432	ug/L	0.061	1	19	1906	2	KED
Zn	67	3.158	ug/L	0.385	12	3	290	12	KED
As	75	0.239	ug/L	0.013	5	3	72	5	KED
Kr	83		ug/L			41	41	27	Standard
> In-1	115		ug/L			8842	8470	1	KED
Cd	111	0.005	ug/L	0.003	67	3	4	20	KED
Cd	114	0.009	ug/L	0.008	86	3	10	56	KED
> Tb	159		ug/L			167464	170221	2	Standard
Pb	208	0.071	ug/L	0.004	6	168	5945	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0242-02RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:04:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	70929	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	366663	3	Standard
|	**Cr**	**52**	**0.141**	ug/L	0.016	11	13137	18034	3	Standard
⌊	**Cr**	**53**	**0.261**	ug/L	0.017	6	163	898	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	36506	0	KED
|	**Ni**	**60**	**0.169**	ug/L	0.018	10	3	253	11	KED
|	**Ni**	**62**	**0.180**	ug/L	0.075	41	0	43	41	KED
|	**Cu**	**63**	**1.181**	ug/L	0.045	3	18	4795	4	KED
|	**Cu**	**65**	**1.190**	ug/L	0.005	0	6	2454	0	KED
|	**Zn**	**66**	**5.681**	ug/L	0.043	0	19	3189	0	KED
|	**Zn**	**67**	**5.523**	ug/L	0.413	7	3	513	6	KED
⌊	**As**	**75**	**0.155**	ug/L	0.008	5	3	48	4	KED
	Kr	**83**		ug/L			41	33	27	Standard
⌈>	**In-1**	**115**		ug/L			8842	8459	2	KED
|	**Cd**	**111**	**0.022**	ug/L	0.014	63	3	9	43	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.006	38	3	15	27	KED
⌈>	**Tb**	**159**		ug/L			167464	167584	2	Standard
⌊	**Pb**	**208**	**0.158**	ug/L	0.004	2	168	12822	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0242-04RE1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:08:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	72229	0	Standard
>	Sc	45		ug/L			332530	450211	1	Standard
	Cr	52	-0.003	ug/L	0.008	263	13137	17686	0	Standard
	Cr	53	0.381	ug/L	0.016	4	163	1508	5	Standard
>	Ge	72		ug/L			37776	36744	1	KED
	Ni	60	0.197	ug/L	0.028	14	3	296	13	KED
	Ni	62	0.195	ug/L	0.022	11	0	46	10	KED
	Cu	63	0.921	ug/L	0.020	2	18	3769	1	KED
	Cu	65	0.905	ug/L	0.032	3	6	1880	2	KED
	Zn	66	11.312	ug/L	0.078	0	19	6372	0	KED
	Zn	67	10.795	ug/L	0.912	8	3	1005	8	KED
	As	75	0.215	ug/L	0.017	7	3	66	8	KED
	Kr	83		ug/L			41	40	7	Standard
>	In-1	115		ug/L			8842	8332	0	KED
	Cd	111	0.014	ug/L	0.002	13	3	7	7	KED
	Cd	114	0.010	ug/L	0.010	93	3	10	63	KED
>	Tb	159		ug/L			167464	171471	0	Standard
	Pb	208	0.051	ug/L	0.001	2	168	4341	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0306-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:12:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	62149	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	399512	0	Standard
|	**Cr**	**52**	**0.879**	ug/L	0.013	1	13137	39849	0	Standard
⌊	**Cr**	**53**	**1.638**	ug/L	0.060	3	163	5110	3	Standard
⌈>	**Ge**	**72**		ug/L			37776	36585	0	KED
|	**Ni**	**60**	**0.537**	ug/L	0.023	4	3	800	3	KED
|	**Ni**	**62**	**0.564**	ug/L	0.071	12	0	133	12	KED
|	**Cu**	**63**	**6.167**	ug/L	0.117	1	18	25016	1	KED
|	**Cu**	**65**	**6.092**	ug/L	0.118	1	6	12561	1	KED
|	**Zn**	**66**	**6.496**	ug/L	0.201	3	19	3651	2	KED
|	**Zn**	**67**	**5.908**	ug/L	0.388	6	3	549	6	KED
⌊	**As**	**75**	**0.226**	ug/L	0.016	7	3	69	7	KED
	Kr	**83**		ug/L			41	40	40	Standard
⌈>	**In-1**	**115**		ug/L			8842	8487	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.002	56	3	4	12	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.006	104	3	7	54	KED
⌈>	**Tb**	**159**		ug/L			167464	171494	1	Standard
⌊	**Pb**	**208**	**0.087**	ug/L	0.002	2	168	7332	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:17:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	42974	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	330444	2	Standard
|	**Cr**	**52**	**0.068**	ug/L	0.016	23	13137	14596	0	Standard
⌊	**Cr**	**53**	**0.037**	ug/L	0.003	9	163	254	4	Standard
⌈>	**Ge**	**72**		ug/L			37776	36594	1	KED
|	**Ni**	**60**	**0.005**	ug/L	0.003	68	3	10	44	KED
|	**Ni**	**62**	**0.005**	ug/L	0.008	146	0	1	100	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	131	18	22	24	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	76	6	14	39	KED
|	**Zn**	**66**	**0.009**	ug/L	0.006	61	19	24	12	KED
|	**Zn**	**67**	**0.015**	ug/L	0.043	287	3	5	78	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	178	3	2	44	KED
	Kr	**83**		ug/L			41	39	15	Standard
⌈>	**In-1**	**115**		ug/L			8842	8511	3	KED
|	**Cd**	**111**	**0.005**	ug/L	0.006	127	3	4	40	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	42	3	1	90	KED
⌈>	**Tb**	**159**		ug/L			167464	168885	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	23	168	344	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:21:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	42548	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	333394	2	Standard
|	**Cr**	**52**	**49.412**	ug/L	0.917	1	13137	1141947	1	Standard
⌊	**Cr**	**53**	**50.587**	ug/L	0.712	1	163	126853	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	37567	0	KED
|	**Ni**	**60**	**49.823**	ug/L	0.826	1	3	75911	0	KED
|	**Ni**	**62**	**50.531**	ug/L	0.964	1	0	12277	1	KED
|	**Cu**	**63**	**51.458**	ug/L	1.137	2	18	214201	1	KED
|	**Cu**	**65**	**51.146**	ug/L	1.094	2	6	108239	1	KED
|	**Zn**	**66**	**50.488**	ug/L	1.536	3	19	29009	2	KED
|	**Zn**	**67**	**49.685**	ug/L	1.143	2	3	4719	1	KED
⌊	**As**	**75**	**48.971**	ug/L	0.794	1	3	14733	0	KED
	Kr	**83**		ug/L			41	43	14	Standard
⌈>	**In-1**	**115**		ug/L			8842	8531	1	KED
|	**Cd**	**111**	**51.024**	ug/L	0.924	1	3	14778	0	KED
⌊	**Cd**	**114**	**50.921**	ug/L	0.679	1	3	37395	0	KED
⌈>	**Tb**	**159**		ug/L			167464	173325	0	Standard
⌊	**Pb**	**208**	**52.418**	ug/L	0.476	0	168	4353637	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:28:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	42388	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	329230	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.006	174	13137	13086	2	Standard
⌊	**Cr**	**53**	**0.006**	ug/L	0.003	52	163	176	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	38020	2	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	60	3	10	39	KED
|	**Ni**	**62**	**0.003**	ug/L	0.004	174	0	1	86	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	29	18	37	15	KED
|	**Cu**	**65**	**0.004**	ug/L	0.002	58	6	15	33	KED
|	**Zn**	**66**	**0.044**	ug/L	0.003	6	19	45	2	KED
|	**Zn**	**67**	**0.020**	ug/L	0.001	6	3	5	0	KED
⌊	**As**	**75**	**0.002**	ug/L	0.007	353	3	4	50	KED
	Kr	**83**		ug/L			41	41	5	Standard
⌈>	**In-1**	**115**		ug/L			8842	8830	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	125	3	4	24	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.007	191	3	6	85	KED
⌈>	**Tb**	**159**		ug/L			167464	166899	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	13	168	336	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:32:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	66723	0	Standard
>	**Sc**	**45**		ug/L			332530	436323	1	Standard
	Cr	**52**	**10.898**	ug/L	0.175	1	13137	343071	1	Standard
	Cr	**53**	**11.531**	ug/L	0.217	1	163	38005	0	Standard
>	**Ge**	**72**		ug/L			37776	39265	0	KED
	Ni	**60**	**11.220**	ug/L	0.408	3	3	17874	4	KED
	Ni	**62**	**11.389**	ug/L	0.583	5	0	2892	4	KED
	Cu	**63**	**83.576**	ug/L	1.813	2	18	363650	1	KED
	Cu	**65**	**82.672**	ug/L	2.864	3	6	182875	3	KED
	Zn	**66**	**51.989**	ug/L	1.551	2	19	31225	2	KED
	Zn	**67**	**50.028**	ug/L	2.582	5	3	4967	5	KED
	As	**75**	**2.691**	ug/L	0.095	3	3	849	4	KED
	Kr	**83**		ug/L			41	62	14	Standard
>	**In-1**	**115**		ug/L			8842	8921	0	KED
	Cd	**111**	**0.048**	ug/L	0.024	48	3	18	39	KED
	Cd	**114**	**0.047**	ug/L	0.005	10	3	39	8	KED
>	**Tb**	**159**		ug/L			167464	202039	1	Standard
	Pb	**208**	**21.218**	ug/L	0.173	0	168	2054225	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:37:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	67326	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	405383	0	Standard
|	**Cr**	**52**	**5.534**	ug/L	0.041	0	13137	169760	1	Standard
⌊	**Cr**	**53**	**5.823**	ug/L	0.096	1	163	17933	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	38501	0	KED
|	**Ni**	**60**	**5.198**	ug/L	0.138	2	3	8120	2	KED
|	**Ni**	**62**	**5.389**	ug/L	0.284	5	0	1342	5	KED
|	**Cu**	**63**	**7.733**	ug/L	0.211	2	18	33013	2	KED
|	**Cu**	**65**	**7.764**	ug/L	0.132	1	6	16845	0	KED
|	**Zn**	**66**	**16.565**	ug/L	0.256	1	19	9770	2	KED
|	**Zn**	**67**	**16.270**	ug/L	0.176	1	3	1586	1	KED
⌊	**As**	**75**	**2.005**	ug/L	0.035	1	3	621	2	KED
	Kr	**83**		ug/L			41	60	15	Standard
⌈>	**In-1**	**115**		ug/L			8842	9013	2	KED
|	**Cd**	**111**	**0.029**	ug/L	0.012	41	3	12	27	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.008	33	3	22	29	KED
⌈>	**Tb**	**159**		ug/L			167464	191409	1	Standard
⌊	**Pb**	**208**	**1.651**	ug/L	0.012	0	168	151611	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:41:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	62010	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	396910	2	Standard
|	**Cr**	**52**	**5.907**	ug/L	0.107	1	13137	176332	2	Standard
⌊	**Cr**	**53**	**6.271**	ug/L	0.177	2	163	18885	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	38078	2	KED
|	**Ni**	**60**	**6.273**	ug/L	0.129	2	3	9688	0	KED
|	**Ni**	**62**	**6.519**	ug/L	0.094	1	0	1605	1	KED
|	**Cu**	**63**	**8.704**	ug/L	0.147	1	18	36737	0	KED
|	**Cu**	**65**	**8.597**	ug/L	0.126	1	6	18448	1	KED
|	**Zn**	**66**	**21.517**	ug/L	0.621	2	19	12540	1	KED
|	**Zn**	**67**	**20.880**	ug/L	1.103	5	3	2012	4	KED
⌊	**As**	**75**	**2.029**	ug/L	0.067	3	3	622	2	KED
	Kr	**83**		ug/L			41	55	1	Standard
⌈>	**In-1**	**115**		ug/L			8842	8871	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.000	1	3	11	0	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.008	31	3	23	25	KED
⌈>	**Tb**	**159**		ug/L			167464	195670	1	Standard
⌊	**Pb**	**208**	**4.908**	ug/L	0.084	1	168	460307	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-20
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:45:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	66438	0	Standard
>	**Sc**	**45**		ug/L			332530	462113	1	Standard
	Cr	**52**	**20.411**	ug/L	0.220	1	13137	664650	1	Standard
	Cr	**53**	**21.236**	ug/L	0.219	1	163	73949	1	Standard
>	**Ge**	**72**		ug/L			37776	38097	0	KED
	Ni	**60**	**31.446**	ug/L	0.215	0	3	48594	0	KED
	Ni	**62**	**32.287**	ug/L	0.803	2	0	7955	1	KED
	Cu	**63**	**88.628**	ug/L	1.675	1	18	374155	1	KED
	Cu	**65**	**87.028**	ug/L	0.493	0	6	186790	0	KED
	Zn	**66**	**154.491**	ug/L	2.342	1	19	89996	1	KED
	Zn	**67**	**147.083**	ug/L	1.849	1	3	14162	1	KED
	As	**75**	**33.201**	ug/L	0.342	1	3	10131	0	KED
	Kr	**83**		ug/L			41	73	18	Standard
>	**In-1**	**115**		ug/L			8842	9033	3	KED
	Cd	**111**	**0.156**	ug/L	0.019	11	3	51	11	KED
	Cd	**114**	**0.165**	ug/L	0.016	9	3	132	8	KED
>	**Tb**	**159**		ug/L			167464	202074	1	Standard
	Pb	**208**	**260.681**	ug/L	4.402	1	168	25237660	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:50:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	68568	0	Standard
>	**Sc**	**45**		ug/L			332530	474461	3	Standard
	Cr	**52**	**17.106**	ug/L	0.112	0	13137	574925	2	Standard
	Cr	**53**	**17.591**	ug/L	0.457	2	163	62903	0	Standard
>	**Ge**	**72**		ug/L			37776	38147	0	KED
	Ni	**60**	**21.266**	ug/L	0.193	0	3	32905	0	KED
	Ni	**62**	**22.907**	ug/L	0.399	1	0	5651	1	KED
	Cu	**63**	**283.918**	ug/L	0.854	0	18	1200179	0	KED
	Cu	**65**	**280.972**	ug/L	5.354	1	6	603841	1	KED
	Zn	**66**	**750.180**	ug/L	6.407	0	19	437502	1	KED
	Zn	**67**	**699.606**	ug/L	13.303	1	3	67440	2	KED
	As	**75**	**108.894**	ug/L	0.491	0	3	33265	0	KED
	Kr	**83**		ug/L			41	81	21	Standard
>	**In-1**	**115**		ug/L			8842	9882	2	KED
	Cd	**111**	**0.450**	ug/L	0.020	4	3	154	6	KED
	Cd	**114**	**0.431**	ug/L	0.009	2	3	370	4	KED
>	**Tb**	**159**		ug/L			167464	201624	1	Standard
	Pb	**208**	**91.183**	ug/L	0.525	0	168	8809198	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0125-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:54:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	68640	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	441223	2	Standard
|	**Cr**	**52**	**14.020**	ug/L	0.106	0	13137	441331	1	Standard
⌊	**Cr**	**53**	**14.729**	ug/L	0.347	2	163	49025	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	38819	0	KED
|	**Ni**	**60**	**18.959**	ug/L	0.127	0	3	29854	0	KED
|	**Ni**	**62**	**19.834**	ug/L	0.297	1	0	4979	0	KED
|	**Cu**	**63**	**170.114**	ug/L	2.552	1	18	731747	0	KED
|	**Cu**	**65**	**167.923**	ug/L	2.713	1	6	367221	0	KED
|	**Zn**	**66**	**521.315**	ug/L	7.460	1	19	309368	0	KED
|	**Zn**	**67**	**479.525**	ug/L	5.573	1	3	47039	1	KED
⌊	**As**	**75**	**90.023**	ug/L	0.504	0	3	27985	0	KED
	Kr	**83**		ug/L			41	69	19	Standard
⌈>	**In-1**	**115**		ug/L			8842	9782	0	KED
|	**Cd**	**111**	**0.370**	ug/L	0.040	10	3	126	10	KED
⌊	**Cd**	**114**	**0.339**	ug/L	0.021	6	3	289	6	KED
⌈>	**Tb**	**159**		ug/L			167464	192460	0	Standard
⌊	**Pb**	**208**	**74.707**	ug/L	0.688	0	168	6889594	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0125-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 09, 2023 23:58:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	64979	0	Standard
> Sc	45		ug/L			332530	443054	3	Standard
Cr	52	32.752	ug/L	0.884	2	13137	1011590	2	Standard
Cr	53	33.634	ug/L	0.732	2	163	112139	2	Standard
> Ge	72		ug/L			37776	38076	1	KED
Ni	60	44.611	ug/L	0.566	1	3	68892	0	KED
Ni	62	45.904	ug/L	0.710	1	0	11303	0	KED
Cu	63	226.950	ug/L	2.733	1	18	957497	0	KED
Cu	65	224.794	ug/L	3.385	1	6	482181	1	KED
Zn	66	727.010	ug/L	6.400	0	19	423174	0	KED
Zn	67	674.445	ug/L	9.860	1	3	64885	0	KED
As STL	75	118.812	ug/L	1.379	1	3	36224	0	KED
Kr	83		ug/L			41	88	18	Standard
> In-1	115		ug/L			8842	10027	2	KED
Cd	111	22.076	ug/L	0.252	1	3	7517	1	KED
Cd	114	22.305	ug/L	0.731	3	3	19247	1	KED
> Tb	159		ug/L			167464	202859	0	Standard
Pb	208	106.766	ug/L	1.718	1	168	10378358	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0125-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:03:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			43915	63821	1	Standard
>	Sc		45		ug/L			332530	482519	1	Standard
	Cr		52	33.598	ug/L	0.237	0	13137	1130057	1	Standard
	Cr		53	35.142	ug/L	0.527	1	163	127615	0	Standard
>	Ge		72		ug/L			37776	38241	2	KED
	Ni		60	45.464	ug/L	0.909	1	3	70499	0	KED
	Ni		62	46.724	ug/L	1.626	3	0	11550	1	KED
	Cu		63	272.207	ug/L	4.578	1	18	1153275	1	KED
	Cu		65	270.487	ug/L	6.941	2	6	582520	0	KED
	Zn		66	906.004	ug/L	32.281	3	19	529409	1	KED
	Zn		67	853.472	ug/L	20.287	2	3	82443	0	KED
	As	STL	75	127.779	ug/L	3.747	2	3	39113	0	KED
	Kr		83		ug/L			41	79	9	Standard
>	In-1		115		ug/L			8842	9965	1	KED
	Cd		111	22.310	ug/L	0.461	2	3	7550	0	KED
	Cd		114	22.403	ug/L	0.312	1	3	19220	0	KED
>	Tb		159		ug/L			167464	204527	2	Standard
	Pb		208	118.630	ug/L	2.493	2	168	11623211	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0125-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:07:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	69915	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	466397	0	Standard
|	**Cr**	**52**	**35.260**	ug/L	0.668	1	13137	1145388	1	Standard
⌊	**Cr**	**53**	**37.223**	ug/L	0.861	2	163	130646	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	37837	1	KED
|	**Ni**	**60**	**47.571**	ug/L	0.927	1	3	72998	0	KED
|	**Ni**	**62**	**48.020**	ug/L	1.262	2	0	11749	1	KED
|	**Cu**	**63**	**307.495**	ug/L	3.938	1	18	1289200	0	KED
|	**Cu**	**65**	**307.168**	ug/L	4.154	1	6	654744	1	KED
|	**Zn**	**66**	**835.974**	ug/L	8.518	1	19	483546	0	KED
|	**Zn**	**67**	**772.877**	ug/L	9.960	1	3	73894	1	KED
⌊	**As**	**75**	**133.851**	ug/L	1.174	0	3	40555	0	KED
	Kr	**83**		ug/L			41	90	25	Standard
⌈>	**In-1**	**115**		ug/L			8842	9966	3	KED
|	**Cd**	**111**	**22.228**	ug/L	1.367	6	3	7513	2	KED
⌊	**Cd**	**114**	**22.249**	ug/L	0.602	2	3	19082	2	KED
⌈>	**Tb**	**159**		ug/L			167464	199422	3	Standard
⌊	**Pb**	**208**	**116.825**	ug/L	3.030	2	168	11157835	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:11:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	44297	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	334004	1	Standard
|	**Cr**	**52**	**0.005**	ug/L	0.004	84	13137	13312	1	Standard
⌊	**Cr**	**53**	**0.014**	ug/L	0.009	62	163	199	12	Standard
⌈>	**Ge**	**72**		ug/L			37776	38577	0	KED
|	**Ni**	**60**	**0.032**	ug/L	0.004	12	3	54	11	KED
|	**Ni**	**62**	**0.025**	ug/L	0.005	17	0	6	15	KED
|	**Cu**	**63**	**0.024**	ug/L	0.006	24	18	121	19	KED
|	**Cu**	**65**	**0.022**	ug/L	0.010	48	6	53	41	KED
|	**Zn**	**66**	**0.090**	ug/L	0.006	6	19	73	5	KED
|	**Zn**	**67**	**0.019**	ug/L	0.039	209	3	5	66	KED
⌊	**As**	**75**	**0.004**	ug/L	0.001	21	3	4	5	KED
	Kr	**83**		ug/L			41	45	32	Standard
⌈>	**In-1**	**115**		ug/L			8842	8526	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.004	93	3	2	49	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.007	262	3	5	91	KED
⌈>	**Tb**	**159**		ug/L			167464	166472	0	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.023	120	168	1661	107	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:15:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43932	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	338852	2	Standard
|	**Cr**	**52**	**48.884**	ug/L	0.354	0	13137	1148454	2	Standard
⌊	**Cr**	**53**	**50.640**	ug/L	0.774	1	163	129058	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	37996	0	KED
|	**Ni**	**60**	**50.320**	ug/L	0.691	1	3	77551	1	KED
|	**Ni**	**62**	**51.453**	ug/L	0.796	1	0	12644	1	KED
|	**Cu**	**63**	**51.393**	ug/L	1.258	2	18	216406	2	KED
|	**Cu**	**65**	**50.813**	ug/L	0.763	1	6	108779	1	KED
|	**Zn**	**66**	**50.104**	ug/L	1.662	3	19	29124	3	KED
|	**Zn**	**67**	**50.777**	ug/L	2.174	4	3	4878	4	KED
⌊	**As**	**75**	**48.552**	ug/L	0.783	1	3	14775	1	KED
	Kr	**83**		ug/L			41	53	17	Standard
⌈>	**In-1**	**115**		ug/L			8842	8658	0	KED
|	**Cd**	**111**	**51.235**	ug/L	0.583	1	3	15064	1	KED
⌊	**Cd**	**114**	**51.309**	ug/L	0.946	1	3	38248	1	KED
⌈>	**Tb**	**159**		ug/L			167464	175902	1	Standard
⌊	**Pb**	**208**	**51.253**	ug/L	0.598	1	168	4320031	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:23:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43964	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	334079	0	Standard
|	**Cr**	**52**	**0.026**	ug/L	0.013	49	13137	13799	1	Standard
⌊	**Cr**	**53**	**0.011**	ug/L	0.002	22	163	191	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	39048	1	KED
|	**Ni**	**60**	**0.032**	ug/L	0.005	16	3	54	16	KED
|	**Ni**	**62**	**0.032**	ug/L	0.011	34	0	8	32	KED
|	**Cu**	**63**	**0.008**	ug/L	0.001	13	18	55	10	KED
|	**Cu**	**65**	**0.013**	ug/L	0.002	18	6	36	13	KED
|	**Zn**	**66**	**0.047**	ug/L	0.010	21	19	48	12	KED
|	**Zn**	**67**	**0.018**	ug/L	0.020	111	3	5	33	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	109	3	5	34	KED
	Kr	**83**		ug/L			41	43	17	Standard
⌈>	**In-1**	**115**		ug/L			8842	9015	1	KED
|	**Cd**	**111**	**0.011**	ug/L	0.008	67	3	6	31	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	368	3	3	99	KED
⌈>	**Tb**	**159**		ug/L			167464	166890	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.003	63	168	490	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-21
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:27:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	76459	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	461439	0	Standard
|	**Cr**	**52**	**12.189**	ug/L	0.295	2	13137	403683	2	Standard
⌊	**Cr**	**53**	**12.803**	ug/L	0.219	1	163	44609	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	37976	1	KED
|	**Ni**	**60**	**16.382**	ug/L	0.209	1	3	25233	0	KED
|	**Ni**	**62**	**16.220**	ug/L	0.083	0	0	3984	1	KED
|	**Cu**	**63**	**36.293**	ug/L	0.522	1	18	152726	0	KED
|	**Cu**	**65**	**36.329**	ug/L	0.560	1	6	77721	0	KED
|	**Zn**	**66**	**45.816**	ug/L	0.248	0	19	26617	0	KED
|	**Zn**	**67**	**47.056**	ug/L	0.705	1	3	4518	1	KED
⌊	**As**	**75**	**4.690**	ug/L	0.109	2	3	1429	1	KED
	Kr	**83**		ug/L			41	73	17	Standard
⌈>	**In-1**	**115**		ug/L			8842	8736	1	KED
|	**Cd**	**111**	**0.189**	ug/L	0.005	2	3	59	0	KED
⌊	**Cd**	**114**	**0.181**	ug/L	0.021	11	3	139	9	KED
⌈>	**Tb**	**159**		ug/L			167464	199366	0	Standard
⌊	**Pb**	**208**	**41.556**	ug/L	0.032	0	168	3970092	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-23
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:31:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	74830	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	441642	1	Standard
|	**Cr**	**52**	**36.623**	ug/L	0.591	1	13137	1125730	0	Standard
⌊	**Cr**	**53**	**38.064**	ug/L	0.664	1	163	126487	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	37988	1	KED
|	**Ni**	**60**	**12.386**	ug/L	0.114	0	3	19086	0	KED
|	**Ni**	**62**	**12.278**	ug/L	0.158	1	0	3017	2	KED
|	**Cu**	**63**	**18.922**	ug/L	0.137	0	18	79667	0	KED
|	**Cu**	**65**	**18.771**	ug/L	0.346	1	6	40175	1	KED
|	**Zn**	**66**	**76.354**	ug/L	1.903	2	19	44354	1	KED
|	**Zn**	**67**	**70.776**	ug/L	1.377	1	3	6798	3	KED
⌊	**As**	**75**	**4.424**	ug/L	0.039	0	3	1349	1	KED
	Kr	**83**		ug/L			41	60	15	Standard
⌈>	**In-1**	**115**		ug/L			8842	8705	0	KED
|	**Cd**	**111**	**0.056**	ug/L	0.012	21	3	20	17	KED
⌊	**Cd**	**114**	**0.056**	ug/L	0.016	29	3	45	26	KED
⌈>	**Tb**	**159**		ug/L			167464	202711	1	Standard
⌊	**Pb**	**208**	**19.184**	ug/L	0.279	1	168	1863408	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:36:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	81204	1	Standard
> Sc	45		ug/L			332530	472048	1	Standard
Cr	52	12.545	ug/L	0.284	2	13137	424433	1	Standard
Cr	53	13.034	ug/L	0.074	0	163	46453	1	Standard
> Ge	72		ug/L			37776	36942	2	KED
Ni	60	18.823	ug/L	0.885	4	3	28185	2	KED
Ni	62	19.288	ug/L	0.654	3	0	4607	2	KED
Cu	63	24.315	ug/L	0.458	1	18	99529	1	KED
Cu	65	23.991	ug/L	0.649	2	6	49914	0	KED
Zn	66	53.439	ug/L	1.514	2	19	30186	1	KED
Zn	67	51.980	ug/L	2.300	4	3	4852	1	KED
As	75	5.112	ug/L	0.171	3	3	1514	0	KED
Kr	83		ug/L			41	81	9	Standard
> In-1	115		ug/L			8842	8543	1	KED
Cd	111	0.058	ug/L	0.018	31	3	20	25	KED
Cd	114	0.050	ug/L	0.025	50	3	40	44	KED
> Tb	159		ug/L			167464	199198	1	Standard
Pb	208	17.282	ug/L	0.244	1	168	1649623	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:40:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	104122	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	515038	2	Standard
|	**Cr**	**52**	**42.055**	ug/L	0.636	1	13137	1504361	1	Standard
⌊	**Cr**	**53**	**43.668**	ug/L	1.081	2	163	169139	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	37168	0	KED
|	**Ni**	**60**	**29.403**	ug/L	0.197	0	3	44330	1	KED
|	**Ni**	**62**	**29.969**	ug/L	0.413	1	0	7204	1	KED
|	**Cu**	**63**	**111.651**	ug/L	0.972	0	18	459853	0	KED
|	**Cu**	**65**	**110.342**	ug/L	1.453	1	6	231057	1	KED
|	**Zn**	**66**	**254.634**	ug/L	4.479	1	19	144692	1	KED
|	**Zn**	**67**	**247.089**	ug/L	3.927	1	3	23208	1	KED
⌊	**As**	**75**	**12.428**	ug/L	0.299	2	3	3701	1	KED
	Kr	**83**		ug/L			41	103	14	Standard
⌈>	**In-1**	**115**		ug/L			8842	8430	0	KED
|	**Cd**	**111**	**4.208**	ug/L	0.169	4	3	1207	4	KED
⌊	**Cd**	**114**	**4.054**	ug/L	0.070	1	3	2945	1	KED
⌈>	**Tb**	**159**		ug/L			167464	200896	0	Standard
⌊	**Pb**	**208**	**408.445**	ug/L	5.918	1	168	39318569	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:44:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	80379	2	Standard
>	Sc	45		ug/L			332530	492398	2	Standard
	Cr	52	9.571	ug/L	0.119	1	13137	342383	1	Standard
	Cr	53	10.237	ug/L	0.247	2	163	38095	0	Standard
>	Ge	72		ug/L			37776	37178	0	KED
	Ni	60	11.606	ug/L	0.109	0	3	17504	1	KED
	Ni	62	11.670	ug/L	0.022	0	0	2806	0	KED
	Cu	63	26.298	ug/L	0.073	0	18	108361	0	KED
	Cu	65	26.251	ug/L	0.059	0	6	54988	0	KED
	Zn	66	53.995	ug/L	0.132	0	19	30707	0	KED
	Zn	67	52.139	ug/L	1.110	2	3	4901	2	KED
	As	75	5.517	ug/L	0.126	2	3	1646	2	KED
	Kr	83		ug/L			41	83	25	Standard
>	In-1	115		ug/L			8842	8301	0	KED
	Cd	111	0.156	ug/L	0.022	13	3	47	13	KED
	Cd	114	0.115	ug/L	0.022	19	3	85	18	KED
>	Tb	159		ug/L			167464	199826	1	Standard
	Pb	208	9.842	ug/L	0.134	1	168	942472	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:48:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	82668	1	Standard
>	Sc	45		ug/L			332530	494273	1	Standard
	Cr	52	9.506	ug/L	0.087	0	13137	341547	2	Standard
	Cr	53	9.949	ug/L	0.082	0	163	37186	1	Standard
>	Ge	72		ug/L			37776	36431	1	KED
	Ni	60	11.662	ug/L	0.255	2	3	17233	1	KED
	Ni	62	11.870	ug/L	0.391	3	0	2797	2	KED
	Cu	63	26.350	ug/L	0.347	1	18	106385	1	KED
	Cu	65	26.538	ug/L	0.453	1	6	54465	0	KED
	Zn	66	53.674	ug/L	0.468	0	19	29910	0	KED
	Zn	67	52.192	ug/L	2.084	3	3	4806	2	KED
	As	75	5.362	ug/L	0.201	3	3	1567	2	KED
	Kr	83		ug/L			41	81	25	Standard
>	In-1	115		ug/L			8842	8368	0	KED
	Cd	111	0.161	ug/L	0.036	22	3	48	19	KED
	Cd	114	0.156	ug/L	0.027	17	3	115	16	KED
>	Tb	159		ug/L			167464	199076	0	Standard
	Pb	208	9.259	ug/L	0.108	1	168	883390	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:53:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	71590	0	Standard
> Sc	45		ug/L			332530	503058	1	Standard
Cr	52	25.876	ug/L	0.129	0	13137	912014	2	Standard
Cr	53	26.979	ug/L	0.634	2	163	102192	1	Standard
> Ge	72		ug/L			37776	36318	1	KED
Ni	60	37.848	ug/L	0.892	2	3	55740	0	KED
Ni	62	38.324	ug/L	1.404	3	0	8998	1	KED
Cu	63	53.461	ug/L	0.892	1	18	215132	0	KED
Cu	65	53.011	ug/L	0.820	1	6	108451	0	KED
Zn	66	132.730	ug/L	2.404	1	19	73694	0	KED
Zn	67	126.505	ug/L	4.423	3	3	11609	2	KED
As	75	29.176	ug/L	0.295	1	3	8487	0	KED
Kr	83		ug/L			41	84	10	Standard
> In-1	115		ug/L			8842	8355	3	KED
Cd	111	25.260	ug/L	1.145	4	3	7160	0	KED
Cd	114	25.612	ug/L	1.387	5	3	18402	2	KED
> Tb	159		ug/L			167464	196213	0	Standard
Pb	208	32.065	ug/L	0.358	1	168	3014752	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 00:57:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	68041	1	Standard
> Sc	45		ug/L			332530	482139	3	Standard
Cr	52	26.101	ug/L	0.795	3	13137	880882	0	Standard
Cr	53	27.226	ug/L	0.886	3	163	98786	1	Standard
> Ge	72		ug/L			37776	36287	1	KED
Ni	60	36.992	ug/L	0.610	1	3	54440	1	KED
Ni	62	37.272	ug/L	0.787	2	0	8748	2	KED
Cu	63	51.809	ug/L	0.821	1	18	208314	0	KED
Cu	65	51.139	ug/L	0.883	1	6	104533	0	KED
Zn	66	131.098	ug/L	2.376	1	19	72730	0	KED
Zn	67	126.543	ug/L	2.352	1	3	11604	0	KED
As	75	28.833	ug/L	0.529	1	3	8379	0	KED
Kr	83		ug/L			41	90	18	Standard
> In-1	115		ug/L			8842	8417	1	KED
Cd	111	24.845	ug/L	0.751	3	3	7100	1	KED
Cd	114	24.876	ug/L	0.405	1	3	18025	1	KED
> Tb	159		ug/L			167464	196091	0	Standard
Pb	208	31.674	ug/L	0.256	0	168	2976369	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:01:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	79982	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	491748	1	Standard
|	**Cr**	**52**	**26.095**	ug/L	0.043	0	13137	898859	1	Standard
⌊	**Cr**	**53**	**27.271**	ug/L	0.408	1	163	100981	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	36127	0	KED
|	**Ni**	**60**	**37.312**	ug/L	0.492	1	3	54672	0	KED
|	**Ni**	**62**	**38.098**	ug/L	1.551	4	0	8900	3	KED
|	**Cu**	**63**	**53.233**	ug/L	0.315	0	18	213124	0	KED
|	**Cu**	**65**	**52.745**	ug/L	1.040	1	6	107347	1	KED
|	**Zn**	**66**	**133.882**	ug/L	2.016	1	19	73958	1	KED
|	**Zn**	**67**	**128.460**	ug/L	2.300	1	3	11729	1	KED
⌊	**As**	**75**	**29.795**	ug/L	0.468	1	3	8622	1	KED
	Kr	**83**		ug/L			41	88	20	Standard
⌈>	**In-1**	**115**		ug/L			8842	8361	0	KED
|	**Cd**	**111**	**24.504**	ug/L	0.453	1	3	6957	1	KED
⌊	**Cd**	**114**	**25.134**	ug/L	0.476	1	3	18091	1	KED
⌈>	**Tb**	**159**		ug/L			167464	198248	0	Standard
⌊	**Pb**	**208**	**32.328**	ug/L	0.284	0	168	3071107	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43677	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	326255	1	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.011	131	13137	12707	1	Standard
⌊	**Cr**	**53**	**-0.000**	ug/L	0.006	1816	163	159	10	Standard
⌈>	**Ge**	**72**		ug/L			37776	36578	0	KED
|	**Ni**	**60**	**0.022**	ug/L	0.006	28	3	35	24	KED
|	**Ni**	**62**	**0.019**	ug/L	0.012	65	0	5	57	KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	27	18	47	17	KED
|	**Cu**	**65**	**0.007**	ug/L	0.002	28	6	20	19	KED
|	**Zn**	**66**	**0.017**	ug/L	0.011	67	19	28	23	KED
|	**Zn**	**67**	**0.008**	ug/L	0.023	292	3	4	49	KED
⌊	**As**	**75**	**0.006**	ug/L	0.004	57	3	5	20	KED
	Kr	**83**		ug/L			41	45	12	Standard
⌈>	**In-1**	**115**		ug/L			8842	8279	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	190	3	3	25	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	429	3	3	68	KED
⌈>	**Tb**	**159**		ug/L			167464	169477	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	6	168	502	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:10:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	44281	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	327572	1	Standard
|	**Cr**	**52**	**49.143**	ug/L	0.606	1	13137	1116097	1	Standard
⌊	**Cr**	**53**	**51.123**	ug/L	0.652	1	163	125962	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	36951	1	KED
|	**Ni**	**60**	**50.058**	ug/L	0.801	1	3	75018	0	KED
|	**Ni**	**62**	**51.286**	ug/L	1.408	2	0	12254	1	KED
|	**Cu**	**63**	**52.089**	ug/L	0.729	1	18	213286	0	KED
|	**Cu**	**65**	**50.905**	ug/L	0.828	1	6	105966	0	KED
|	**Zn**	**66**	**51.112**	ug/L	0.820	1	19	28888	0	KED
|	**Zn**	**67**	**50.082**	ug/L	1.029	2	3	4679	1	KED
⌊	**As**	**75**	**49.036**	ug/L	0.301	0	3	14511	0	KED
	Kr	**83**		ug/L			41	42	26	Standard
⌈>	**In-1**	**115**		ug/L			8842	8166	2	KED
|	**Cd**	**111**	**52.272**	ug/L	2.000	3	3	14484	1	KED
⌊	**Cd**	**114**	**52.871**	ug/L	1.570	2	3	37150	1	KED
⌈>	**Tb**	**159**		ug/L			167464	170308	1	Standard
⌊	**Pb**	**208**	**52.307**	ug/L	0.701	1	168	4268418	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:17:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	43109	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	325612	2	Standard
|	**Cr**	**52**	**0.072**	ug/L	0.081	113	13137	14450	11	Standard
⌊	**Cr**	**53**	**0.043**	ug/L	0.073	167	163	263	65	Standard
⌈>	**Ge**	**72**		ug/L			37776	37436	0	KED
|	**Ni**	**60**	**0.022**	ug/L	0.001	4	3	36	2	KED
|	**Ni**	**62**	**0.034**	ug/L	0.012	35	0	8	32	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	62	18	26	18	KED
|	**Cu**	**65**	**0.007**	ug/L	0.003	40	6	21	28	KED
|	**Zn**	**66**	**0.055**	ug/L	0.008	14	19	50	9	KED
|	**Zn**	**67**	**0.061**	ug/L	0.061	100	3	9	60	KED
⌊	**As**	**75**	**0.002**	ug/L	0.002	137	3	4	17	KED
	Kr	**83**		ug/L			41	46	36	Standard
⌈>	**In-1**	**115**		ug/L			8842	8597	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.002	57	3	4	12	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	434	3	4	65	KED
⌈>	**Tb**	**159**		ug/L			167464	166649	0	Standard
⌊	**Pb**	**208**	**0.071**	ug/L	0.117	165	168	5784	160	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-07
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Wednesday, May 10, 2023 01:21:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	70476	0	Standard
>	**Sc**	**45**		ug/L			332530	454088	3	Standard
	Cr	**52**	**9.274**	ug/L	0.428	4	13137	306227	1	Standard
	Cr	**53**	**9.649**	ug/L	0.149	1	163	33129	2	Standard
>	**Ge**	**72**		ug/L			37776	36804	1	KED
	Ni	**60**	**22.087**	ug/L	0.339	1	3	32971	1	KED
	Ni	**62**	**22.142**	ug/L	0.760	3	0	5269	2	KED
	Cu	**63**	**19.212**	ug/L	0.292	1	18	78360	0	KED
	Cu	**65**	**19.361**	ug/L	0.221	1	6	40153	2	KED
	Zn	**66**	**37.347**	ug/L	0.956	2	19	21027	1	KED
	Zn	**67**	**37.471**	ug/L	1.236	3	3	3487	2	KED
	As	**75**	**8.119**	ug/L	0.110	1	3	2396	1	KED
	Kr	**83**		ug/L			41	63	4	Standard
>	**In-1**	**115**		ug/L			8842	8379	0	KED
	Cd	**111**	**0.037**	ug/L	0.005	13	3	13	10	KED
	Cd	**114**	**0.036**	ug/L	0.007	18	3	29	16	KED
>	**Tb**	**159**		ug/L			167464	196394	1	Standard
	Pb	**208**	**2.250**	ug/L	0.026	1	168	211933	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:26:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	72031	1	Standard
>	Sc	45		ug/L			332530	442093	2	Standard
	Cr	52	71.717	ug/L	0.932	1	13137	2189974	1	Standard
	Cr	53	71.999	ug/L	1.413	1	163	239287	0	Standard
>	Ge	72		ug/L			37776	36891	1	KED
	Ni	60	97.415	ug/L	0.453	0	3	145757	1	KED
	Ni	62	97.295	ug/L	2.058	2	0	23211	1	KED
	Cu	63	88.365	ug/L	1.177	1	18	361204	0	KED
	Cu	65	86.840	ug/L	0.681	0	6	180475	0	KED
	Zn	66	74.426	ug/L	0.937	1	19	41987	0	KED
	Zn	67	70.743	ug/L	2.634	3	3	6595	2	KED
	As	75	6.223	ug/L	0.215	3	3	1841	2	KED
	Kr	83		ug/L			41	67	18	Standard
>	In-1	115		ug/L			8842	8311	1	KED
	Cd	111	0.162	ug/L	0.034	20	3	48	18	KED
	Cd	114	0.159	ug/L	0.028	17	3	117	15	KED
>	Tb	159		ug/L			167464	187180	0	Standard
	Pb	208	62.709	ug/L	0.140	0	168	5624709	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:30:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	77713	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	463736	2	Standard
|	**Cr**	**52**	**18.360**	ug/L	0.384	2	13137	601715	1	Standard
⌊	**Cr**	**53**	**18.974**	ug/L	0.106	0	163	66328	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	36456	0	KED
|	**Ni**	**60**	**36.857**	ug/L	0.266	0	3	54500	0	KED
|	**Ni**	**62**	**38.090**	ug/L	0.927	2	0	8981	2	KED
|	**Cu**	**63**	**45.515**	ug/L	0.433	0	18	183884	0	KED
|	**Cu**	**65**	**44.346**	ug/L	0.798	1	6	91082	1	KED
|	**Zn**	**66**	**212.240**	ug/L	1.662	0	19	118305	1	KED
|	**Zn**	**67**	**201.442**	ug/L	2.984	1	3	18559	1	KED
⌊	**As**	**75**	**4.068**	ug/L	0.084	2	3	1191	2	KED
	Kr	**83**		ug/L			41	99	5	Standard
⌈>	**In-1**	**115**		ug/L			8842	8237	0	KED
|	**Cd**	**111**	**0.439**	ug/L	0.063	14	3	126	13	KED
⌊	**Cd**	**114**	**0.369**	ug/L	0.075	20	3	264	19	KED
⌈>	**Tb**	**159**		ug/L			167464	194681	0	Standard
⌊	**Pb**	**208**	**83.272**	ug/L	1.545	1	168	7767545	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-13
Sample Dil Factor: 20
Comments:

DEL

Sample Date/Time: Wednesday, May 10, 2023 01:34:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	61975	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	412337	2	Standard
|	**Cr**	**52**	**10.299**	ug/L	0.174	1	13137	307251	1	Standard
⌊	**Cr**	**53**	**10.905**	ug/L	0.163	1	163	33978	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	36196	0	KED
|	**Ni**	**60**	**12.289**	ug/L	0.209	1	3	18043	1	KED
|	**Ni**	**62**	**12.165**	ug/L	0.203	1	0	2848	2	KED
|	**Cu**	**63**	**34.043**	ug/L	0.303	0	18	136557	0	KED
|	**Cu**	**65**	**33.882**	ug/L	0.449	1	6	69094	0	KED
|	**Zn**	**66**	**71.033**	ug/L	0.609	0	19	39323	1	KED
|	**Zn**	**67**	**68.352**	ug/L	1.054	1	3	6254	0	KED
⌊	**As**	**75**	**4.810**	ug/L	0.056	1	3	1397	1	KED
	Kr	**83**		ug/L			41	69	32	Standard
⌈>	**In-1**	**115**		ug/L			8842	8353	2	KED
|	**Cd**	**111**	**0.114**	ug/L	0.028	24	3	35	20	KED
⌊	**Cd**	**114**	**0.130**	ug/L	0.026	20	3	97	18	KED
⌈>	**Tb**	**159**		ug/L			167464	189703	2	Standard
⌊	**Pb**	**208**	**32.329**	ug/L	0.882	2	168	2937649	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0348-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:39:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	61599	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	286969	2	Standard
|	**Cr**	**52**	**0.441**	ug/L	0.019	4	13137	20001	3	Standard
⌊	**Cr**	**53**	**1.624**	ug/L	0.010	0	163	3641	3	Standard
⌈>	**Ge**	**72**		ug/L			37776	28084	0	KED
|	**Ni**	**60**	**1.437**	ug/L	0.031	2	3	1640	2	KED
|	**Ni**	**62**	**1.427**	ug/L	0.124	8	0	259	8	KED
|	**Cu**	**63**	**1.953**	ug/L	0.018	0	18	6090	1	KED
|	**Cu**	**65**	**1.982**	ug/L	0.015	0	6	3141	0	KED
|	**Zn**	**66**	**17.083**	ug/L	0.234	1	19	7349	1	KED
|	**Zn**	**67**	**16.172**	ug/L	0.402	2	3	1150	3	KED
⌊	**As**	**75**	**1.246**	ug/L	0.040	3	3	283	3	KED
	Kr	**83**		ug/L			41	55	5	Standard
⌈>	**In-1**	**115**		ug/L			8842	6511	3	KED
|	**Cd**	**111**	**0.020**	ug/L	0.011	53	3	6	31	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.004	42	3	7	26	KED
⌈>	**Tb**	**159**		ug/L			167464	148231	2	Standard
⌊	**Pb**	**208**	**0.125**	ug/L	0.003	2	168	8997	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:43:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	39153	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	310974	3	Standard
|	**Cr**	**52**	**0.048**	ug/L	0.020	42	13137	13306	0	Standard
⌊	**Cr**	**53**	**0.023**	ug/L	0.006	25	163	206	3	Standard
⌈>	**Ge**	**72**		ug/L			37776	32860	0	KED
|	**Ni**	**60**	**0.018**	ug/L	0.008	43	3	26	37	KED
|	**Ni**	**62**	**0.024**	ug/L	0.009	36	0	5	33	KED
|	**Cu**	**63**	**0.014**	ug/L	0.003	20	18	66	15	KED
|	**Cu**	**65**	**0.016**	ug/L	0.001	8	6	34	6	KED
|	**Zn**	**66**	**0.015**	ug/L	0.025	162	19	24	50	KED
|	**Zn**	**67**	**0.029**	ug/L	0.022	77	3	5	33	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	63	3	2	35	KED
	Kr	**83**		ug/L			41	39	22	Standard
⌈>	**In-1**	**115**		ug/L			8842	7552	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.004	857	3	2	33	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	387	3	2	122	KED
⌈>	**Tb**	**159**		ug/L			167464	163041	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	31	168	389	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0376-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:48:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	54293	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	314660	0	Standard
|	**Cr**	**52**	**18.960**	ug/L	0.231	1	13137	421315	1	Standard
⌊	**Cr**	**53**	**19.668**	ug/L	0.106	0	163	46650	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	34247	1	KED
|	**Ni**	**60**	**0.246**	ug/L	0.027	10	3	344	11	KED
|	**Ni**	**62**	**0.304**	ug/L	0.071	23	0	67	22	KED
|	**Cu**	**63**	**0.337**	ug/L	0.010	3	18	1295	2	KED
|	**Cu**	**65**	**0.338**	ug/L	0.027	8	6	657	6	KED
|	**Zn**	**66**	**15.872**	ug/L	0.273	1	19	8326	0	KED
|	**Zn**	**67**	**14.432**	ug/L	0.867	6	3	1252	7	KED
⌊	**As**	**75**	**0.037**	ug/L	0.005	13	3	13	11	KED
	Kr	**83**		ug/L			41	38	35	Standard
⌈>	**In-1**	**115**		ug/L			8842	7536	0	KED
|	**Cd**	**111**	**0.138**	ug/L	0.034	24	3	38	22	KED
⌊	**Cd**	**114**	**0.133**	ug/L	0.007	5	3	89	5	KED
⌈>	**Tb**	**159**		ug/L			167464	161968	1	Standard
⌊	**Pb**	**208**	**0.029**	ug/L	0.001	3	168	2419	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0424-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:52:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	52553	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	344015	2	Standard
|	**Cr**	**52**	**0.601**	ug/L	0.021	3	13137	27749	1	Standard
⌊	**Cr**	**53**	**0.738**	ug/L	0.008	1	163	2076	3	Standard
⌈>	**Ge**	**72**		ug/L			37776	33048	1	KED
|	**Ni**	**60**	**0.694**	ug/L	0.028	4	3	933	2	KED
|	**Ni**	**62**	**0.734**	ug/L	0.055	7	0	157	6	KED
|	**Cu**	**63**	**2.449**	ug/L	0.069	2	18	8982	1	KED
|	**Cu**	**65**	**2.435**	ug/L	0.057	2	6	4539	0	KED
|	**Zn**	**66**	**96.648**	ug/L	0.645	0	19	48842	1	KED
|	**Zn**	**67**	**89.752**	ug/L	1.689	1	3	7497	2	KED
⌊	**As**	**75**	**0.583**	ug/L	0.052	8	3	157	7	KED
	Kr	**83**		ug/L			41	44	8	Standard
⌈>	**In-1**	**115**		ug/L			8842	7616	0	KED
|	**Cd**	**111**	**0.101**	ug/L	0.009	9	3	29	8	KED
⌊	**Cd**	**114**	**0.098**	ug/L	0.028	28	3	67	26	KED
⌈>	**Tb**	**159**		ug/L			167464	163481	0	Standard
⌊	**Pb**	**208**	**0.576**	ug/L	0.008	1	168	45305	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0374-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 01:57:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	61358	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	298471	1	Standard
|	**Cr**	**52**	**1.328**	ug/L	0.021	1	13137	38953	2	Standard
⌊	**Cr**	**53**	**2.563**	ug/L	0.053	2	163	5892	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	27150	0	KED
|	**Ni**	**60**	**1.039**	ug/L	0.074	7	3	1146	7	KED
|	**Ni**	**62**	**1.053**	ug/L	0.117	11	0	185	10	KED
|	**Cu**	**63**	**1.883**	ug/L	0.021	1	18	5678	0	KED
|	**Cu**	**65**	**1.814**	ug/L	0.030	1	6	2779	0	KED
|	**Zn**	**66**	**1.534**	ug/L	0.015	0	19	650	1	KED
|	**Zn**	**67**	**2.394**	ug/L	0.039	1	3	166	0	KED
⌊	**As**	**75**	**0.708**	ug/L	0.026	3	3	156	4	KED
	Kr	**83**		ug/L			41	41	34	Standard
⌈>	**In-1**	**115**		ug/L			8842	6456	0	KED
|	**Cd**	**111**	**0.016**	ug/L	0.005	32	3	6	18	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.021	144	3	10	107	KED
⌈>	**Tb**	**159**		ug/L			167464	147508	0	Standard
⌊	**Pb**	**208**	**0.111**	ug/L	0.002	1	168	8025	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:01:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	38378	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	289398	3	Standard
|	**Cr**	**52**	**0.106**	ug/L	0.021	19	13137	13531	0	Standard
⌊	**Cr**	**53**	**0.045**	ug/L	0.009	19	163	240	10	Standard
⌈>	**Ge**	**72**		ug/L			37776	31531	0	KED
|	**Ni**	**60**	**0.007**	ug/L	0.002	31	3	12	22	KED
|	**Ni**	**62**	**0.016**	ug/L	0.009	58	0	3	50	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	70	18	25	28	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	102	6	13	57	KED
|	**Zn**	**66**	**0.007**	ug/L	0.006	94	19	19	14	KED
|	**Zn**	**67**	**0.024**	ug/L	0.028	115	3	5	43	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	75	3	2	35	KED
	Kr	**83**		ug/L			41	43	4	Standard
⌈>	**In-1**	**115**		ug/L			8842	6362	13	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	68	3	1	43	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	471	3	3	102	KED
⌈>	**Tb**	**159**		ug/L			167464	151430	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	7	168	375	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:05:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	38042	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	295762	1	Standard
|	**Cr**	**52**	**48.297**	ug/L	0.492	1	13137	990587	1	Standard
⌊	**Cr**	**53**	**49.856**	ug/L	0.557	1	163	110910	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	30706	0	KED
|	**Ni**	**60**	**52.052**	ug/L	0.958	1	3	64831	2	KED
|	**Ni**	**62**	**52.337**	ug/L	0.771	1	0	10394	1	KED
|	**Cu**	**63**	**53.747**	ug/L	0.463	0	18	182888	0	KED
|	**Cu**	**65**	**53.307**	ug/L	0.946	1	6	92214	1	KED
|	**Zn**	**66**	**52.519**	ug/L	0.263	0	19	24668	0	KED
|	**Zn**	**67**	**52.163**	ug/L	1.222	2	3	4050	3	KED
⌊	**As**	**75**	**49.513**	ug/L	0.209	0	3	12176	0	KED
	Kr	**83**		ug/L			41	48	23	Standard
⌈>	**In-1**	**115**		ug/L			8842	6949	0	KED
|	**Cd**	**111**	**53.499**	ug/L	0.617	1	3	12624	1	KED
⌊	**Cd**	**114**	**53.285**	ug/L	0.173	0	3	31879	0	KED
⌈>	**Tb**	**159**		ug/L			167464	157054	0	Standard
⌊	**Pb**	**208**	**56.321**	ug/L	0.244	0	168	4238669	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:12:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	38212	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	292625	2	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.006	23	13137	11014	1	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.004	176	163	138	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	31710	0	KED
|	**Ni**	**60**	**0.014**	ug/L	0.003	21	3	20	18	KED
|	**Ni**	**62**	**0.010**	ug/L	0.021	219	0	2	173	KED
|	**Cu**	**63**	**0.005**	ug/L	0.004	80	18	33	43	KED
|	**Cu**	**65**	**0.009**	ug/L	0.005	54	6	21	39	KED
|	**Zn**	**66**	**0.038**	ug/L	0.029	76	19	34	40	KED
|	**Zn**	**67**	**0.055**	ug/L	0.063	113	3	7	66	KED
⌊	**As**	**75**	**0.004**	ug/L	0.005	111	3	4	29	KED
	Kr	**83**		ug/L			41	36	2	Standard
⌈>	**In-1**	**115**		ug/L			8842	7448	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.002	49	3	4	13	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	704	3	3	94	KED
⌈>	**Tb**	**159**		ug/L			167464	154637	1	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.005	91	168	587	66	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0513-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:17:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	76459	2	Standard
>	Sc	45		ug/L			332530	347951	1	Standard
	Cr	52	0.493	ug/L	0.017	3	13137	25506	1	Standard
	Cr	53	0.822	ug/L	0.022	2	163	2319	1	Standard
>	Ge	72		ug/L			37776	31974	0	KED
	Ni	60	1.158	ug/L	0.038	3	3	1504	2	KED
	Ni	62	1.220	ug/L	0.067	5	0	252	4	KED
	Cu	63	10.068	ug/L	0.063	0	18	35687	1	KED
	Cu	65	10.009	ug/L	0.326	3	6	18033	2	KED
	Zn	66	37.583	ug/L	0.607	1	19	18387	1	KED
	Zn	67	34.815	ug/L	0.410	1	3	2816	1	KED
	As	75	0.241	ug/L	0.029	11	3	64	10	KED
	Kr	83		ug/L			41	45	12	Standard
>	In-1	115		ug/L			8842	7250	1	KED
	Cd	111	0.044	ug/L	0.013	30	3	13	24	KED
	Cd	114	-0.002	ug/L	0.043	1995	3	1	1511	KED
>	Tb	159		ug/L			167464	159305	0	Standard
	Pb	208	0.255	ug/L	0.004	1	168	19634	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0452-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:21:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	265955	1	Standard
⌈>	Sc	45		ug/L			332530	286954	2	Standard
|	Cr	52	2.337	ug/L	0.054	2	13137	57271	1	Standard
⌊	Cr	53	2.168	ug/L	0.013	0	163	4814	3	Standard
⌈>	Ge	72		ug/L			37776	27762	1	KED
|	Ni	60	4.031	ug/L	0.085	2	3	4540	0	KED
|	Ni	62	4.109	ug/L	0.167	4	0	738	5	KED
|	Cu	63	0.480	ug/L	0.019	3	18	1490	5	KED
|	Cu	65	0.462	ug/L	0.024	5	6	727	6	KED
|	Zn	66	3.074	ug/L	0.105	3	19	1318	1	KED
|	Zn	67	3.103	ug/L	0.461	14	3	220	14	KED
⌊	As	75	0.162	ug/L	0.004	2	3	38	3	KED
	Kr	83		ug/L			41	52	31	Standard
⌈>	In-1	115		ug/L			8842	6337	1	KED
|	Cd	111	0.027	ug/L	0.007	26	3	8	17	KED
⌊	Cd	114	0.019	ug/L	0.009	49	3	12	40	KED
⌈>	Tb	159		ug/L			167464	146445	0	Standard
⌊	Pb	208	0.048	ug/L	0.000	0	168	3531	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0462-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:25:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	57550	0	Standard
>	Sc	45		ug/L			332530	362170	3	Standard
	Cr	52	0.024	ug/L	0.004	14	13137	14910	2	Standard
	Cr	53	0.805	ug/L	0.026	3	163	2367	1	Standard
>	Ge	72		ug/L			37776	30582	0	KED
	Ni	60	1.767	ug/L	0.052	2	3	2194	2	KED
	Ni	62	1.654	ug/L	0.208	12	0	327	12	KED
	Cu	63	0.327	ug/L	0.003	1	18	1123	0	KED
	Cu	65	0.340	ug/L	0.017	4	6	591	4	KED
	Zn	66	1.162	ug/L	0.024	2	19	559	1	KED
	Zn	67	1.521	ug/L	0.207	13	3	120	13	KED
	As	75	0.307	ug/L	0.014	4	3	78	4	KED
	Kr	83		ug/L			41	46	46	Standard
>	In-1	115		ug/L			8842	6969	1	KED
	Cd	111	0.021	ug/L	0.011	51	3	7	33	KED
	Cd	114	0.012	ug/L	0.007	57	3	9	39	KED
>	Tb	159		ug/L			167464	154961	1	Standard
	Pb	208	0.031	ug/L	0.001	3	168	2438	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0480-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:31:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	293918	1	Standard
>	Sc	45		ug/L			332530	245721	3	Standard
	Cr	52	16.818	ug/L	0.337	2	13137	292820	1	Standard
	Cr	53	17.000	ug/L	0.117	0	163	31500	2	Standard
>	Ge	72		ug/L			37776	21688	0	KED
	Ni	60	4.067	ug/L	0.112	2	3	3579	2	KED
	Ni	62	4.411	ug/L	0.111	2	0	619	1	KED
	Cu	63	0.280	ug/L	0.014	5	18	684	5	KED
	Cu	65	0.280	ug/L	0.045	15	6	346	15	KED
	Zn	66	26.903	ug/L	0.577	2	19	8929	1	KED
	Zn	67	24.123	ug/L	0.949	3	3	1323	3	KED
	As	75	0.097	ug/L	0.016	16	3	18	14	KED
	Kr	83		ug/L			41	84	10	Standard
>	In-1	115		ug/L			8842	5227	2	KED
	Cd	111	0.457	ug/L	0.043	9	3	83	10	KED
	Cd	114	0.436	ug/L	0.073	16	3	198	14	KED
>	Tb	159		ug/L			167464	133894	1	Standard
	Pb	208	0.061	ug/L	0.001	1	168	4043	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:36:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	41033	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	288885	0	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.013	59	13137	11833	1	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.005	66	163	124	8	Standard
⌈>	**Ge**	**72**		ug/L			37776	30510	0	KED
|	**Ni**	**60**	**0.016**	ug/L	0.007	44	3	22	38	KED
|	**Ni**	**62**	**0.043**	ug/L	0.024	57	0	8	53	KED
|	**Cu**	**63**	**0.016**	ug/L	0.005	29	18	67	21	KED
|	**Cu**	**65**	**0.015**	ug/L	0.002	10	6	31	9	KED
|	**Zn**	**66**	**0.046**	ug/L	0.035	76	19	37	44	KED
|	**Zn**	**67**	**0.059**	ug/L	0.001	1	3	7	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	2166	3	3	48	KED
	Kr	**83**		ug/L			41	41	16	Standard
⌈>	**In-1**	**115**		ug/L			8842	7030	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.011	164	3	4	61	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	494	3	2	120	KED
⌈>	**Tb**	**159**		ug/L			167464	155077	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	15	168	360	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:40:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	47786	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	320614	2	Standard
|	**Cr**	**52**	**-0.047**	ug/L	0.009	20	13137	11634	0	Standard
⌊	**Cr**	**53**	**0.036**	ug/L	0.011	29	163	243	10	Standard
⌈>	**Ge**	**72**		ug/L			37776	31329	0	KED
|	**Ni**	**60**	**0.028**	ug/L	0.016	55	3	39	51	KED
|	**Ni**	**62**	**0.041**	ug/L	0.027	65	0	8	61	KED
|	**Cu**	**63**	**0.022**	ug/L	0.004	17	18	90	15	KED
|	**Cu**	**65**	**0.019**	ug/L	0.006	34	6	38	28	KED
|	**Zn**	**66**	**0.083**	ug/L	0.010	11	19	55	8	KED
|	**Zn**	**67**	**0.049**	ug/L	0.061	125	3	6	68	KED
⌊	**As**	**75**	**0.486**	ug/L	0.014	2	3	124	3	KED
	Kr	**83**		ug/L			41	34	20	Standard
⌈>	**In-1**	**115**		ug/L			8842	7187	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.006	497	3	2	57	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	172	3	2	45	KED
⌈>	**Tb**	**159**		ug/L			167464	158377	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	3	168	288	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-DUP3
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:45:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	48580	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	319845	2	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.017	48	13137	11846	0	Standard
⌊	**Cr**	**53**	**0.043**	ug/L	0.001	1	163	260	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	31872	1	KED
|	**Ni**	**60**	**0.025**	ug/L	0.006	21	3	36	21	KED
|	**Ni**	**62**	**0.031**	ug/L	0.035	111	0	6	103	KED
|	**Cu**	**63**	**0.013**	ug/L	0.005	42	18	59	29	KED
|	**Cu**	**65**	**0.008**	ug/L	0.001	17	6	19	11	KED
|	**Zn**	**66**	**0.044**	ug/L	0.014	32	19	38	17	KED
|	**Zn**	**67**	**0.102**	ug/L	0.061	59	3	11	44	KED
⌊	**As**	**75**	**0.478**	ug/L	0.027	5	3	125	6	KED
	Kr	**83**		ug/L			41	37	10	Standard
⌈>	**In-1**	**115**		ug/L			8842	7282	4	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	260	3	2	65	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.009	330	3	4	119	KED
⌈>	**Tb**	**159**		ug/L			167464	159075	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	56	168	194	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-MS3
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:49:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	48650	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	325593	1	Standard
|	**Cr**	**52**	**1.193**	ug/L	0.022	1	13137	39485	2	Standard
⌊	**Cr**	**53**	**1.337**	ug/L	0.017	1	163	3429	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	32790	0	KED
|	**Ni**	**60**	**1.435**	ug/L	0.050	3	3	1911	3	KED
|	**Ni**	**62**	**1.465**	ug/L	0.096	6	0	311	6	KED
|	**Cu**	**63**	**1.500**	ug/L	0.023	1	18	5464	1	KED
|	**Cu**	**65**	**1.465**	ug/L	0.049	3	6	2711	3	KED
|	**Zn**	**66**	**4.740**	ug/L	0.030	0	19	2393	1	KED
|	**Zn**	**67**	**4.520**	ug/L	0.268	5	3	377	5	KED
⌊	**As**	**75**	**1.824**	ug/L	0.010	0	3	482	0	KED
	Kr	**83**		ug/L			41	33	23	Standard
⌈>	**In-1**	**115**		ug/L			8842	7441	1	KED
|	**Cd**	**111**	**1.426**	ug/L	0.024	1	3	363	0	KED
⌊	**Cd**	**114**	**1.443**	ug/L	0.006	0	3	927	1	KED
⌈>	**Tb**	**159**		ug/L			167464	160535	1	Standard
⌊	**Pb**	**208**	**1.474**	ug/L	0.013	0	168	113578	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-MSD3
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:55:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	48789	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	331932	2	Standard
|	**Cr**	**52**	**1.181**	ug/L	0.058	4	13137	39951	0	Standard
⌊	**Cr**	**53**	**1.291**	ug/L	0.018	1	163	3380	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	33311	0	KED
|	**Ni**	**60**	**1.423**	ug/L	0.054	3	3	1926	3	KED
|	**Ni**	**62**	**1.530**	ug/L	0.057	3	0	330	4	KED
|	**Cu**	**63**	**1.462**	ug/L	0.039	2	18	5412	2	KED
|	**Cu**	**65**	**1.474**	ug/L	0.006	0	6	2771	0	KED
|	**Zn**	**66**	**4.603**	ug/L	0.074	1	19	2361	2	KED
|	**Zn**	**67**	**4.744**	ug/L	0.403	8	3	402	7	KED
⌊	**As**	**75**	**1.748**	ug/L	0.053	3	3	469	3	KED
	Kr	**83**		ug/L			41	36	20	Standard
⌈>	**In-1**	**115**		ug/L			8842	7697	1	KED
|	**Cd**	**111**	**1.404**	ug/L	0.108	7	3	369	7	KED
⌊	**Cd**	**114**	**1.441**	ug/L	0.078	5	3	958	6	KED
⌈>	**Tb**	**159**		ug/L			167464	161131	0	Standard
⌊	**Pb**	**208**	**1.477**	ug/L	0.014	0	168	114240	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 02:59:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	39941	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	297917	1	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.006	189	13137	11703	1	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.005	40	163	119	10	Standard
⌈>	**Ge**	**72**		ug/L			37776	32565	0	KED
|	**Ni**	**60**	**0.010**	ug/L	0.001	9	3	15	6	KED
|	**Ni**	**62**	**0.018**	ug/L	0.019	101	0	4	89	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	77	18	24	27	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	68	6	13	37	KED
|	**Zn**	**66**	**0.013**	ug/L	0.010	74	19	23	20	KED
|	**Zn**	**67**	**0.060**	ug/L	0.035	58	3	8	35	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.004	107	3	2	44	KED
	Kr	**83**		ug/L			41	43	11	Standard
⌈>	**In-1**	**115**		ug/L			8842	7480	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.011	675	3	2	108	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.000	17	3	3	1	KED
⌈>	**Tb**	**159**		ug/L			167464	156350	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	2	168	356	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:04:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	41313	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	307356	1	Standard
|	**Cr**	**52**	**47.979**	ug/L	0.793	1	13137	1022914	2	Standard
⌊	**Cr**	**53**	**50.150**	ug/L	0.721	1	163	115964	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	32572	0	KED
|	**Ni**	**60**	**51.583**	ug/L	0.408	0	3	68147	0	KED
|	**Ni**	**62**	**52.891**	ug/L	0.595	1	0	11142	0	KED
|	**Cu**	**63**	**53.300**	ug/L	0.755	1	18	192386	0	KED
|	**Cu**	**65**	**52.686**	ug/L	0.416	0	6	96684	0	KED
|	**Zn**	**66**	**52.944**	ug/L	0.643	1	19	26378	0	KED
|	**Zn**	**67**	**52.503**	ug/L	2.007	3	3	4324	3	KED
⌊	**As**	**75**	**50.119**	ug/L	0.059	0	3	13074	0	KED
	Kr	**83**		ug/L			41	54	13	Standard
⌈>	**In-1**	**115**		ug/L			8842	7538	0	KED
|	**Cd**	**111**	**51.519**	ug/L	0.413	0	3	13188	0	KED
⌊	**Cd**	**114**	**51.630**	ug/L	0.578	1	3	33508	0	KED
⌈>	**Tb**	**159**		ug/L			167464	162469	1	Standard
⌊	**Pb**	**208**	**53.772**	ug/L	1.113	2	168	4185920	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:11:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	40689	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	303870	2	Standard
|	**Cr**	**52**	**-0.009**	ug/L	0.004	40	13137	11822	2	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.004	28	163	121	8	Standard
⌈>	**Ge**	**72**		ug/L			37776	33588	2	KED
|	**Ni**	**60**	**0.007**	ug/L	0.002	21	3	13	14	KED
|	**Ni**	**62**	**0.012**	ug/L	0.010	85	0	3	69	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	27	18	36	13	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	42	6	17	29	KED
|	**Zn**	**66**	**0.053**	ug/L	0.022	41	19	44	23	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.046	1477	3	3	124	KED
⌊	**As**	**75**	**0.005**	ug/L	0.002	33	3	4	11	KED
	Kr	**83**		ug/L			41	41	16	Standard
⌈>	**In-1**	**115**		ug/L			8842	7761	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.007	1066	3	2	66	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	559	3	3	34	KED
⌈>	**Tb**	**159**		ug/L			167464	158746	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	8	168	313	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:15:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	85852	1	Standard
>	Sc	45		ug/L			332530	667261	4	Standard
	Cr	52	0.012	ug/L	0.014	110	13137	26909	2	Standard
	Cr	53	0.491	ug/L	0.004	0	163	2787	4	Standard
>	Ge	72		ug/L			37776	29764	0	KED
	Ni	60	0.700	ug/L	0.025	3	3	848	3	KED
	Ni	62	0.779	ug/L	0.053	6	0	150	6	KED
	Cu	63	0.380	ug/L	0.028	7	18	1267	7	KED
	Cu	65	0.401	ug/L	0.019	4	6	678	4	KED
	Zn	66	1.572	ug/L	0.120	7	19	730	8	KED
	Zn	67	2.408	ug/L	0.032	1	3	184	1	KED
	As	75	4.400	ug/L	0.049	1	3	1051	0	KED
	Kr	83		ug/L			41	50	20	Standard
>	In-1	115		ug/L			8842	6861	1	KED
	Cd	111	0.014	ug/L	0.005	34	3	6	18	KED
	Cd	114	0.002	ug/L	0.005	244	3	4	71	KED
>	Tb	159		ug/L			167464	156691	1	Standard
	Pb	208	0.035	ug/L	0.002	5	168	2756	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:19:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	86976	0	Standard
> Sc	45		ug/L			332530	644087	3	Standard
Cr	52	0.052	ug/L	0.024	46	13137	27696	0	Standard
Cr	53	0.524	ug/L	0.027	5	163	2851	1	Standard
> Ge	72		ug/L			37776	30041	0	KED
Ni	60	0.766	ug/L	0.024	3	3	935	2	KED
Ni	62	0.814	ug/L	0.105	12	0	158	12	KED
Cu	63	0.224	ug/L	0.002	1	18	761	0	KED
Cu	65	0.234	ug/L	0.016	6	6	401	6	KED
Zn	66	1.462	ug/L	0.170	11	19	687	11	KED
Zn	67	2.310	ug/L	0.089	3	3	178	4	KED
As	75	4.454	ug/L	0.057	1	3	1074	0	KED
Kr	83		ug/L			41	44	39	Standard
> In-1	115		ug/L			8842	6849	1	KED
Cd	111	0.011	ug/L	0.015	131	3	5	66	KED
Cd	114	-0.002	ug/L	0.000	2	3	1	3	KED
> Tb	159		ug/L			167464	153022	1	Standard
Pb	208	0.027	ug/L	0.001	4	168	2098	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:24:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	86232	1	Standard
> Sc	45		ug/L			332530	621648	2	Standard
Cr	52	11.436	ug/L	0.224	1	13137	511653	0	Standard
Cr	53	12.330	ug/L	0.162	1	163	57879	1	Standard
> Ge	72		ug/L			37776	29580	0	KED
Ni	60	26.864	ug/L	0.309	1	3	32230	0	KED
Ni	62	26.764	ug/L	0.540	2	0	5120	1	KED
Cu	63	25.690	ug/L	0.096	0	18	84222	0	KED
Cu	65	25.571	ug/L	0.335	1	6	42617	1	KED
Zn	66	76.056	ug/L	0.605	0	19	34406	0	KED
Zn	67	72.263	ug/L	1.184	1	3	5403	0	KED
As	75	28.724	ug/L	0.258	0	3	6806	0	KED
Kr	83		ug/L			41	73	31	Standard
> In-1	115		ug/L			8842	6837	2	KED
Cd	111	24.223	ug/L	0.549	2	3	5623	1	KED
Cd	114	25.016	ug/L	0.566	2	3	14721	1	KED
> Tb	159		ug/L			167464	155552	0	Standard
Pb	208	25.119	ug/L	0.471	1	168	1872259	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-MSD2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:30:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	85695	0	Standard
> Sc	45		ug/L			332530	641390	2	Standard
Cr	52	11.527	ug/L	0.212	1	13137	531914	1	Standard
Cr	53	12.350	ug/L	0.132	1	163	59819	2	Standard
> Ge	72		ug/L			37776	30276	0	KED
Ni	60	27.346	ug/L	0.428	1	3	33583	1	KED
Ni	62	27.615	ug/L	0.121	0	0	5408	0	KED
Cu	63	26.248	ug/L	0.503	1	18	88073	1	KED
Cu	65	26.164	ug/L	0.339	1	6	44631	1	KED
Zn	66	77.475	ug/L	1.231	1	19	35874	1	KED
Zn	67	74.471	ug/L	0.256	0	3	5700	0	KED
As	75	29.345	ug/L	0.019	0	3	7117	0	KED
Kr	83		ug/L			41	64	18	Standard
> In-1	115		ug/L			8842	6798	1	KED
Cd	111	25.904	ug/L	0.121	0	3	5980	0	KED
Cd	114	25.925	ug/L	0.289	1	3	15173	1	KED
> Tb	159		ug/L			167464	154708	1	Standard
Pb	208	25.748	ug/L	0.468	1	168	1908435	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:34:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	41894	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	306227	1	Standard
|	**Cr**	**52**	**0.012**	ug/L	0.006	50	13137	12358	1	Standard
⌊	**Cr**	**53**	**0.015**	ug/L	0.003	19	163	184	4	Standard
⌈>	**Ge**	**72**		ug/L			37776	34308	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.006	35	3	26	29	KED
|	**Ni**	**62**	**0.026**	ug/L	0.005	20	0	6	17	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	166	18	20	32	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	117	6	13	62	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.009	118	19	13	31	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.013	406	3	3	34	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	156	3	3	24	KED
	Kr	**83**		ug/L			41	44	39	Standard
⌈>	**In-1**	**115**		ug/L			8842	7536	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.010	209	3	4	58	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	51	3	1	94	KED
⌈>	**Tb**	**159**		ug/L			167464	162505	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	37	168	188	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0464-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:38:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	49663	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	311893	0	Standard
|	**Cr**	**52**	**0.095**	ug/L	0.008	8	13137	14357	0	Standard
⌊	**Cr**	**53**	**0.047**	ug/L	0.007	13	163	263	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	33466	0	KED
|	**Ni**	**60**	**1.346**	ug/L	0.049	3	3	1829	3	KED
|	**Ni**	**62**	**1.370**	ug/L	0.010	0	0	297	0	KED
|	**Cu**	**63**	**0.376**	ug/L	0.020	5	18	1412	5	KED
|	**Cu**	**65**	**0.360**	ug/L	0.036	10	6	684	9	KED
|	**Zn**	**66**	**3.781**	ug/L	0.068	1	19	1951	2	KED
|	**Zn**	**67**	**3.721**	ug/L	0.411	11	3	318	11	KED
⌊	**As**	**75**	**0.029**	ug/L	0.009	31	3	10	22	KED
	Kr	**83**		ug/L			41	43	4	Standard
⌈>	**In-1**	**115**		ug/L			8842	7513	0	KED
|	**Cd**	**111**	**0.033**	ug/L	0.004	11	3	11	8	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.018	54	3	24	48	KED
⌈>	**Tb**	**159**		ug/L			167464	161396	0	Standard
⌊	**Pb**	**208**	**22.116**	ug/L	0.149	0	168	1710473	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0464-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:42:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	82109	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	353902	2	Standard
|	**Cr**	**52**	**0.475**	ug/L	0.001	0	13137	25491	2	Standard
⌊	**Cr**	**53**	**0.635**	ug/L	0.016	2	163	1860	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	33788	1	KED
|	**Ni**	**60**	**1.118**	ug/L	0.053	4	3	1535	4	KED
|	**Ni**	**62**	**1.148**	ug/L	0.044	3	0	251	5	KED
|	**Cu**	**63**	**2.887**	ug/L	0.089	3	18	10821	1	KED
|	**Cu**	**65**	**2.885**	ug/L	0.137	4	6	5495	3	KED
|	**Zn**	**66**	**37.145**	ug/L	0.817	2	19	19199	0	KED
|	**Zn**	**67**	**34.845**	ug/L	2.256	6	3	2976	5	KED
⌊	**As**	**75**	**0.417**	ug/L	0.030	7	3	116	7	KED
	Kr	**83**		ug/L			41	37	16	Standard
⌈>	**In-1**	**115**		ug/L			8842	7633	2	KED
|	**Cd**	**111**	**0.024**	ug/L	0.003	14	3	9	11	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.010	111	3	9	72	KED
⌈>	**Tb**	**159**		ug/L			167464	160202	1	Standard
⌊	**Pb**	**208**	**0.318**	ug/L	0.001	0	168	24536	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0516-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:47:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	78090	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	495888	2	Standard
|	**Cr**	**52**	**-0.047**	ug/L	0.009	18	13137	17972	0	Standard
⌊	**Cr**	**53**	**0.242**	ug/L	0.009	3	163	1144	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	32026	0	KED
|	**Ni**	**60**	**0.573**	ug/L	0.048	8	3	747	8	KED
|	**Ni**	**62**	**0.638**	ug/L	0.028	4	0	132	5	KED
|	**Cu**	**63**	**8.279**	ug/L	0.030	0	18	29395	0	KED
|	**Cu**	**65**	**8.201**	ug/L	0.059	0	6	14802	0	KED
|	**Zn**	**66**	**10.896**	ug/L	0.392	3	19	5350	3	KED
|	**Zn**	**67**	**11.156**	ug/L	0.398	3	3	906	3	KED
⌊	**As**	**75**	**0.462**	ug/L	0.037	8	3	121	8	KED
	Kr	**83**		ug/L			41	36	32	Standard
⌈>	**In-1**	**115**		ug/L			8842	7235	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.011	74	3	6	42	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.003	26	3	9	19	KED
⌈>	**Tb**	**159**		ug/L			167464	158033	0	Standard
⌊	**Pb**	**208**	**0.138**	ug/L	0.002	1	168	10624	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0516-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:51:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43915	77753	0	Standard
> Sc	45		ug/L			332530	473153	1	Standard
Cr	52	-0.039	ug/L	0.012	31	13137	17412	2	Standard
Cr	53	0.211	ug/L	0.016	7	163	982	4	Standard
> Ge	72		ug/L			37776	31704	1	KED
Ni	60	0.545	ug/L	0.007	1	3	704	0	KED
Ni	62	0.552	ug/L	0.012	2	0	113	0	KED
Cu	63	8.586	ug/L	0.051	0	18	30181	1	KED
Cu	65	8.449	ug/L	0.052	0	6	15095	1	KED
Zn	66	11.587	ug/L	0.188	1	19	5631	0	KED
Zn	67	11.038	ug/L	0.629	5	3	887	6	KED
As	75	0.474	ug/L	0.036	7	3	123	6	KED
Kr	83		ug/L			41	43	2	Standard
> In-1	115		ug/L			8842	6965	3	KED
Cd	111	0.014	ug/L	0.002	17	3	6	9	KED
Cd	114	0.015	ug/L	0.007	47	3	12	37	KED
> Tb	159		ug/L			167464	156180	1	Standard
Pb	208	0.146	ug/L	0.003	1	168	11068	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 03:55:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	41383	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	298913	1	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.006	19	13137	12422	1	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.008	169	163	156	11	Standard
⌈>	**Ge**	**72**		ug/L			37776	32004	1	KED
|	**Ni**	**60**	**0.029**	ug/L	0.007	23	3	40	22	KED
|	**Ni**	**62**	**0.037**	ug/L	0.005	13	0	8	13	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	108	18	22	32	KED
|	**Cu**	**65**	**0.005**	ug/L	0.001	24	6	14	15	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.010	93	19	11	44	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.014	55	3	1	86	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	69	3	2	35	KED
	Kr	**83**		ug/L			41	36	13	Standard
⌈>	**In-1**	**115**		ug/L			8842	7289	1	KED
|	**Cd**	**111**	**0.000**	ug/L	0.010	201378	3	2	88	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	166	3	2	47	KED
⌈>	**Tb**	**159**		ug/L			167464	153715	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	28	168	122	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:00:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	40791	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	294234	0	Standard
|	**Cr**	**52**	**48.631**	ug/L	0.411	0	13137	992252	0	Standard
⌊	**Cr**	**53**	**50.210**	ug/L	0.306	0	163	111136	0	Standard
⌈>	**Ge**	**72**		ug/L			37776	32220	0	KED
|	**Ni**	**60**	**51.598**	ug/L	0.887	1	3	67431	1	KED
|	**Ni**	**62**	**52.138**	ug/L	0.502	0	0	10865	1	KED
|	**Cu**	**63**	**52.800**	ug/L	0.882	1	18	188520	1	KED
|	**Cu**	**65**	**52.733**	ug/L	0.669	1	6	95724	1	KED
|	**Zn**	**66**	**51.702**	ug/L	0.419	0	19	25482	0	KED
|	**Zn**	**67**	**51.349**	ug/L	1.347	2	3	4183	2	KED
⌊	**As**	**75**	**49.786**	ug/L	0.584	1	3	12847	0	KED
	Kr	**83**		ug/L			41	40	19	Standard
⌈>	**In-1**	**115**		ug/L			8842	7370	0	KED
|	**Cd**	**111**	**50.635**	ug/L	0.976	1	3	12672	2	KED
⌊	**Cd**	**114**	**51.640**	ug/L	0.932	1	3	32766	1	KED
⌈>	**Tb**	**159**		ug/L			167464	155724	0	Standard
⌊	**Pb**	**208**	**54.900**	ug/L	0.496	0	168	4096616	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:07:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	40961	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	290438	2	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.012	43	13137	12031	2	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.005	383	163	145	4	Standard
⌈>	**Ge**	**72**		ug/L			37776	32490	1	KED
|	**Ni**	**60**	**0.036**	ug/L	0.006	15	3	50	13	KED
|	**Ni**	**62**	**0.046**	ug/L	0.023	51	0	10	47	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	59	18	36	34	KED
|	**Cu**	**65**	**0.009**	ug/L	0.005	61	6	21	43	KED
|	**Zn**	**66**	**0.045**	ug/L	0.012	27	19	39	14	KED
|	**Zn**	**67**	**0.045**	ug/L	0.013	27	3	6	15	KED
⌊	**As**	**75**	**0.006**	ug/L	0.005	80	3	4	26	KED
	Kr	**83**		ug/L			41	46	4	Standard
⌈>	**In-1**	**115**		ug/L			8842	7601	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.015	341	3	4	93	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.006	72	3	8	46	KED
⌈>	**Tb**	**159**		ug/L			167464	151027	3	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	29	168	323	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0463-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:11:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	83717	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	363338	2	Standard
|	**Cr**	**52**	**0.327**	ug/L	0.009	2	13137	22486	1	Standard
⌊	**Cr**	**53**	**1.216**	ug/L	0.059	4	163	3495	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	31225	0	KED
|	**Ni**	**60**	**0.744**	ug/L	0.043	5	3	944	5	KED
|	**Ni**	**62**	**0.865**	ug/L	0.063	7	0	175	7	KED
|	**Cu**	**63**	**2.413**	ug/L	0.019	0	18	8366	1	KED
|	**Cu**	**65**	**2.401**	ug/L	0.079	3	6	4229	2	KED
|	**Zn**	**66**	**8.259**	ug/L	0.099	1	19	3958	0	KED
|	**Zn**	**67**	**8.006**	ug/L	0.381	4	3	634	5	KED
⌊	**As**	**75**	**0.493**	ug/L	0.018	3	3	126	3	KED
	Kr	**83**		ug/L			41	39	31	Standard
⌈>	**In-1**	**115**		ug/L			8842	7314	1	KED
|	**Cd**	**111**	**0.013**	ug/L	0.008	64	3	6	32	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.002	22	3	8	13	KED
⌈>	**Tb**	**159**		ug/L			167464	157428	1	Standard
⌊	**Pb**	**208**	**0.237**	ug/L	0.002	0	168	18050	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0463-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:15:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	81905	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	438260	0	Standard
|	**Cr**	**52**	**0.154**	ug/L	0.016	10	13137	21930	1	Standard
⌊	**Cr**	**53**	**0.939**	ug/L	0.009	0	163	3306	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	30901	1	KED
|	**Ni**	**60**	**1.108**	ug/L	0.010	0	3	1391	0	KED
|	**Ni**	**62**	**1.131**	ug/L	0.030	2	0	226	3	KED
|	**Cu**	**63**	**1.257**	ug/L	0.005	0	18	4320	1	KED
|	**Cu**	**65**	**1.229**	ug/L	0.020	1	6	2145	1	KED
|	**Zn**	**66**	**4.583**	ug/L	0.167	3	19	2181	3	KED
|	**Zn**	**67**	**4.549**	ug/L	0.448	9	3	358	8	KED
⌊	**As**	**75**	**2.164**	ug/L	0.026	1	3	538	1	KED
	Kr	**83**		ug/L			41	35	20	Standard
⌈>	**In-1**	**115**		ug/L			8842	7163	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.010	108	3	5	47	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.006	48	3	10	35	KED
⌈>	**Tb**	**159**		ug/L			167464	155570	0	Standard
⌊	**Pb**	**208**	**0.277**	ug/L	0.001	0	168	20812	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0463-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:20:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	78076	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	379664	0	Standard
|	**Cr**	**52**	**0.323**	ug/L	0.004	1	13137	23406	0	Standard
⌊	**Cr**	**53**	**1.227**	ug/L	0.026	2	163	3685	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	31456	1	KED
|	**Ni**	**60**	**1.005**	ug/L	0.036	3	3	1285	3	KED
|	**Ni**	**62**	**0.983**	ug/L	0.085	8	0	200	9	KED
|	**Cu**	**63**	**2.355**	ug/L	0.058	2	18	8222	1	KED
|	**Cu**	**65**	**2.322**	ug/L	0.021	0	6	4120	1	KED
|	**Zn**	**66**	**15.119**	ug/L	0.335	2	19	7286	1	KED
|	**Zn**	**67**	**13.996**	ug/L	0.042	0	3	1115	1	KED
⌊	**As**	**75**	**0.875**	ug/L	0.082	9	3	223	9	KED
	Kr	**83**		ug/L			41	37	17	Standard
⌈>	**In-1**	**115**		ug/L			8842	6933	0	KED
|	**Cd**	**111**	**0.011**	ug/L	0.006	53	3	5	26	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.008	44	3	14	35	KED
⌈>	**Tb**	**159**		ug/L			167464	156437	1	Standard
⌊	**Pb**	**208**	**0.569**	ug/L	0.010	1	168	42773	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:24:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	51217	3	Standard
⌈>	**Sc**	**45**		ug/L			332530	369725	1	Standard
|	**Cr**	**52**	**3.076**	ug/L	0.013	0	13137	92552	1	Standard
⌊	**Cr**	**53**	**3.394**	ug/L	0.057	1	163	9610	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	32054	0	KED
|	**Ni**	**60**	**4.549**	ug/L	0.075	1	3	5918	2	KED
|	**Ni**	**62**	**4.668**	ug/L	0.062	1	0	968	2	KED
|	**Cu**	**63**	**20.250**	ug/L	0.575	2	18	71932	2	KED
|	**Cu**	**65**	**20.417**	ug/L	0.086	0	6	36874	0	KED
|	**Zn**	**66**	**31.506**	ug/L	0.106	0	19	15455	1	KED
|	**Zn**	**67**	**29.705**	ug/L	0.839	2	3	2409	2	KED
⌊	**As**	**75**	**9.571**	ug/L	0.330	3	3	2459	2	KED
	Kr	**83**		ug/L			41	34	3	Standard
⌈>	**In-1**	**115**		ug/L			8842	7221	0	KED
|	**Cd**	**111**	**0.526**	ug/L	0.059	11	3	131	11	KED
⌊	**Cd**	**114**	**0.584**	ug/L	0.044	7	3	366	8	KED
⌈>	**Tb**	**159**		ug/L			167464	159535	0	Standard
⌊	**Pb**	**208**	**6.386**	ug/L	0.144	2	168	488338	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-17
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:28:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	57372	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	336010	2	Standard
|	**Cr**	**52**	**0.833**	ug/L	0.009	1	13137	32452	3	Standard
⌊	**Cr**	**53**	**1.024**	ug/L	0.024	2	163	2749	1	Standard
⌈>	**Ge**	**72**		ug/L			37776	32424	0	KED
|	**Ni**	**60**	**1.213**	ug/L	0.078	6	3	1598	7	KED
|	**Ni**	**62**	**1.203**	ug/L	0.071	5	0	252	5	KED
|	**Cu**	**63**	**3.894**	ug/L	0.086	2	18	14007	2	KED
|	**Cu**	**65**	**3.853**	ug/L	0.105	2	6	7043	2	KED
|	**Zn**	**66**	**18.808**	ug/L	0.275	1	19	9338	0	KED
|	**Zn**	**67**	**18.352**	ug/L	0.434	2	3	1506	1	KED
⌊	**As**	**75**	**1.022**	ug/L	0.029	2	3	268	3	KED
	Kr	**83**		ug/L			41	37	5	Standard
⌈>	**In-1**	**115**		ug/L			8842	7196	2	KED
|	**Cd**	**111**	**0.008**	ug/L	0.006	82	3	4	34	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.009	70	3	11	52	KED
⌈>	**Tb**	**159**		ug/L			167464	158062	0	Standard
⌊	**Pb**	**208**	**0.378**	ug/L	0.005	1	168	28792	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-19
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:32:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	59659	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	351435	2	Standard
|	**Cr**	**52**	**0.489**	ug/L	0.018	3	13137	25644	0	Standard
⌊	**Cr**	**53**	**0.593**	ug/L	0.031	5	163	1738	5	Standard
⌈>	**Ge**	**72**		ug/L			37776	32751	0	KED
|	**Ni**	**60**	**1.387**	ug/L	0.087	6	3	1845	6	KED
|	**Ni**	**62**	**1.664**	ug/L	0.083	4	0	353	4	KED
|	**Cu**	**63**	**4.561**	ug/L	0.022	0	18	16568	0	KED
|	**Cu**	**65**	**4.677**	ug/L	0.064	1	6	8635	1	KED
|	**Zn**	**66**	**1.677**	ug/L	0.094	5	19	856	5	KED
|	**Zn**	**67**	**1.932**	ug/L	0.086	4	3	163	4	KED
⌊	**As**	**75**	**1.329**	ug/L	0.071	5	3	351	4	KED
	Kr	**83**		ug/L			41	33	21	Standard
⌈>	**In-1**	**115**		ug/L			8842	7377	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	249	3	4	86	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	226	3	4	80	KED
⌈>	**Tb**	**159**		ug/L			167464	157325	0	Standard
⌊	**Pb**	**208**	**0.214**	ug/L	0.001	0	168	16290	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0077-DUP1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:37:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	59738	0	Standard
⌈>	**Sc**	**45**		ug/L			332530	352960	1	Standard
|	**Cr**	**52**	**0.552**	ug/L	0.015	2	13137	27295	2	Standard
⌊	**Cr**	**53**	**0.668**	ug/L	0.027	4	163	1945	4	Standard
⌈>	**Ge**	**72**		ug/L			37776	32935	1	KED
|	**Ni**	**60**	**1.370**	ug/L	0.064	4	3	1833	3	KED
|	**Ni**	**62**	**1.362**	ug/L	0.202	14	0	290	13	KED
|	**Cu**	**63**	**4.578**	ug/L	0.125	2	18	16719	1	KED
|	**Cu**	**65**	**4.461**	ug/L	0.134	3	6	8279	1	KED
|	**Zn**	**66**	**1.727**	ug/L	0.029	1	19	886	0	KED
|	**Zn**	**67**	**1.951**	ug/L	0.004	0	3	165	1	KED
⌊	**As**	**75**	**1.306**	ug/L	0.059	4	3	347	5	KED
	Kr	**83**		ug/L			41	43	11	Standard
⌈>	**In-1**	**115**		ug/L			8842	7237	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.002	87	3	3	15	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.005	92	3	6	46	KED
⌈>	**Tb**	**159**		ug/L			167464	159690	0	Standard
⌊	**Pb**	**208**	**0.210**	ug/L	0.002	0	168	16248	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0077-MS1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:41:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43915	60127	1	Standard
>	Sc	45		ug/L			332530	360257	0	Standard
	Cr	52	11.376	ug/L	0.162	1	13137	295102	1	Standard
	Cr	53	11.802	ug/L	0.259	2	163	32122	2	Standard
>	Ge	72		ug/L			37776	30101	12	KED
	Ni	60	16.661	ug/L	2.330	13	3	20103	0	KED
	Ni	62	17.130	ug/L	2.307	13	0	3297	0	KED
	Cu	63	20.887	ug/L	2.960	14	18	68850	1	KED
	Cu	65	20.775	ug/L	2.501	12	6	34877	1	KED
	Zn	66	49.868	ug/L	6.159	12	19	22725	2	KED
	Zn	67	47.467	ug/L	7.462	15	3	3565	2	KED
	As	75	15.372	ug/L	2.287	14	3	3661	1	KED
	Kr	83		ug/L			41	32	21	Standard
>	In-1	115		ug/L			8842	7505	4	KED
	Cd	111	13.381	ug/L	0.587	4	3	3408	0	KED
	Cd	114	13.622	ug/L	0.889	6	3	8787	2	KED
>	Tb	159		ug/L			167464	160575	0	Standard
	Pb	208	14.304	ug/L	0.216	1	168	1100714	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0077-MSD1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:47:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	58395	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	355338	1	Standard
|	**Cr**	**52**	**11.009**	ug/L	0.575	5	13137	282155	5	Standard
⌊	**Cr**	**53**	**11.525**	ug/L	0.625	5	163	30949	6	Standard
⌈>	**Ge**	**72**		ug/L			37776	33018	0	KED
|	**Ni**	**60**	**15.045**	ug/L	0.157	1	3	20151	0	KED
|	**Ni**	**62**	**14.924**	ug/L	0.333	2	0	3187	2	KED
|	**Cu**	**63**	**19.087**	ug/L	0.317	1	18	69854	2	KED
|	**Cu**	**65**	**18.751**	ug/L	0.012	0	6	34885	0	KED
|	**Zn**	**66**	**45.054**	ug/L	0.034	0	19	22758	0	KED
|	**Zn**	**67**	**43.555**	ug/L	0.609	1	3	3637	1	KED
⌊	**As**	**75**	**14.007**	ug/L	0.196	1	3	3706	1	KED
	Kr	**83**		ug/L			41	52	12	Standard
⌈>	**In-1**	**115**		ug/L			8842	7573	0	KED
|	**Cd**	**111**	**13.397**	ug/L	0.223	1	3	3447	1	KED
⌊	**Cd**	**114**	**13.597**	ug/L	0.059	0	3	8867	0	KED
⌈>	**Tb**	**159**		ug/L			167464	160670	0	Standard
⌊	**Pb**	**208**	**13.927**	ug/L	0.657	4	168	1072141	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:51:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	40799	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	296429	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.017	87	13137	12102	0	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.007	1019	163	146	7	Standard
⌈>	**Ge**	**72**		ug/L			37776	32321	0	KED
|	**Ni**	**60**	**0.034**	ug/L	0.010	28	3	48	26	KED
|	**Ni**	**62**	**0.040**	ug/L	0.006	13	0	8	12	KED
|	**Cu**	**63**	**0.002**	ug/L	0.000	18	18	21	5	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	31	6	12	17	KED
|	**Zn**	**66**	**0.001**	ug/L	0.004	619	19	17	11	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.014	157	3	2	43	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.001	44	3	2	10	KED
	Kr	**83**		ug/L			41	40	8	Standard
⌈>	**In-1**	**115**		ug/L			8842	7345	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.008	80	3	5	36	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	147	3	5	66	KED
⌈>	**Tb**	**159**		ug/L			167464	154332	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	67	168	190	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 04:56:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	41620	1	Standard
⌈>	**Sc**	**45**		ug/L			332530	296349	2	Standard
|	**Cr**	**52**	**48.679**	ug/L	1.034	2	13137	1000116	1	Standard
⌊	**Cr**	**53**	**51.001**	ug/L	1.433	2	163	113664	2	Standard
⌈>	**Ge**	**72**		ug/L			37776	32571	1	KED
|	**Ni**	**60**	**51.432**	ug/L	1.177	2	3	67930	0	KED
|	**Ni**	**62**	**52.709**	ug/L	0.110	0	0	11103	1	KED
|	**Cu**	**63**	**52.502**	ug/L	0.434	0	18	189495	0	KED
|	**Cu**	**65**	**53.198**	ug/L	0.347	0	6	97619	1	KED
|	**Zn**	**66**	**52.597**	ug/L	0.263	0	19	26204	1	KED
|	**Zn**	**67**	**52.705**	ug/L	1.710	3	3	4339	2	KED
⌊	**As**	**75**	**49.987**	ug/L	0.631	1	3	13039	1	KED
	Kr	**83**		ug/L			41	48	6	Standard
⌈>	**In-1**	**115**		ug/L			8842	7424	3	KED
|	**Cd**	**111**	**51.648**	ug/L	2.278	4	3	13005	0	KED
⌊	**Cd**	**114**	**51.934**	ug/L	1.496	2	3	33167	0	KED
⌈>	**Tb**	**159**		ug/L			167464	158559	1	Standard
⌊	**Pb**	**208**	**54.279**	ug/L	0.484	0	168	4123875	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 05:03:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050923a_B.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43915	40643	2	Standard
⌈>	**Sc**	**45**		ug/L			332530	291714	0	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.010	49	13137	11943	2	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.008	256	163	136	13	Standard
⌈>	**Ge**	**72**		ug/L			37776	33501	1	KED
|	**Ni**	**60**	**0.036**	ug/L	0.004	12	3	52	11	KED
|	**Ni**	**62**	**0.044**	ug/L	0.018	40	0	10	39	KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	24	18	42	13	KED
|	**Cu**	**65**	**0.006**	ug/L	0.005	70	6	18	46	KED
|	**Zn**	**66**	**0.057**	ug/L	0.013	22	19	46	12	KED
|	**Zn**	**67**	**0.073**	ug/L	0.047	64	3	9	40	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.006	3391	3	3	48	KED
	Kr	**83**		ug/L			41	37	22	Standard
⌈>	**In-1**	**115**		ug/L			8842	7698	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	219	3	2	43	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	472	3	3	51	KED
⌈>	**Tb**	**159**		ug/L			167464	151940	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	17	168	331	8	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00040	Instrument:	ICPMS1
Calibration Date:	05/10/2023 15:47		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	15570	10	16140.9	20	15789.15	50	15195.72	100	15002.63
Chromium-52	0	0	0.5	31020	10	15441.1	20	15000.05	50	14462.12	100	14509.21
Chromium-53	0	0	0.5	1694	10	1654.9	20	1689.3	50	1689.16	100	1684.98
Lead-208	0	0	0.1	90610	10	90331.7	20	89339.2	50	87570.58	100	84871.84

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00040
Calibration Date: 5/10/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	12949.73	49.1	0.9999		0.998	
Chromium-52	15072.08	65.2	1.0000		0.998	
Chromium-53	1402.057	49.0	1.0000		0.998	
Lead-208	73787.22	49.1	0.9997		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Instrument: ICPMS1
Calibration Date: 05/10/2023 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	245	10	247.9	20	243.5	50	239.7	100	242.13
Cadmium-111	0	0	0.1	210	10	235.4	20	233.45	50	230.1	100	233.47
Cadmium-114	0	0	0.1	700	10	607.9	20	614.8	50	592.84	100	599.85
Copper-63	0	0	0.5	5004	10	4375	20	4306.25	50	4084.54	100	4030.52
Copper-65	0	0	0.5	2594	10	2169.7	20	2190.8	50	2078.94	100	2074.73
Zinc-66	0	0	6	522.8333	10	539	20	516.55	50	492.7	100	498.85
Zinc-67	0	0	6	86.16666	10	89.3	20	86.65	50	79.74	100	81.23

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00040
Calibration Date: 5/10/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	203.0383	49.0	1.0000		0.998	
Cadmium-111	190.4033	49.2	0.9999		0.998	
Cadmium-114	519.2317	49.6	0.9999		0.998	
Copper-63	3633.385	49.9	0.9998		0.998	
Copper-65	1851.362	50.1	0.9999		0.998	
Zinc-66	428.3222	49.1	0.9998		0.998	
Zinc-67	70.51444	49.3	0.9996		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** SLEØ2Ø4 **Cal:** GEØØØ4Ø

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1	—		
	✓	-CAL2	—		
	✓	-CAL3	—		Sc↑ (New cones)
		SEQ-CAL1	LS276		
		-CAL2	LS225		
		-CAL3	LS226		
		-CAL4	LS227		
		-CAL5	LS228		
		-CAL6	LS229		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	LS276		
		-CCV1	LS228		
		-CCB1	LS276		
		-CRL1	LS226		
		-IFA1	L4688		C_e^{53}↑
		-IFB1	L4689		
		-HCV1	L478Ø		In^{-1} noisy - Cd<100
		-HCV2	L4781		
		-IBL2	—		
		-CCV2			
		-CCB2			
	✓	-CAL1			
		-CCV3			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB3			
		BLDΦ687-BLK2	SWN	20	Ag, Zn only
	✓	↓ -BS2	↓	↓	STD Mode noisy ↓
E→D		↓ -BS2	↓	↓	↓
		BLEΦ298-BLK1	REN		
		↓ -BS1	↓		
		BLEΦΦ77-MS2	↓	2	As, Co, Zn only
		230Φ297-Φ1	SWN	100	Ba, Cr only
		BLDΦ728-DUP2	↓	↓	Ba, Cr RPD↑ ↓
	✓	↓ -MS2	↓	↓	Std Mode noisy ↓
		SEQ-IBL3			
		↓ -CCV4			
		↓ -CCB4			
		BLEΦ3Φ1-BLK1	REN		
		↓ -BS1	↓		
		BLEΦ143-BLK1	SWN	20	
	✓	↓ -BS1	↓	↓	Std Mode noisy
		↓ -BS1	↓	↓	
		BLDΦ728-MS2	↓	100	Ba, Cr%R↑ Ba, Cr only
		230Φ348-Φ1	REN	20	Pb only
		SEQ-IBL4			
		230Φ374-Φ3	REN	2	Pb only
		SEQ-IBL5			
		↓ -CCV5			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB5			
	√	Rinse			Break in Analysis - Flushed Sample Nitric
	√	SEQ-CAL1			Ba Removed
		↓ -CCV6			
		↓ -CCB6			
		BLD0578-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		BLE0072-BLK1			
		↓ -BS1			Std Mode no.3y
		230394-01			No Ag, Cr, Pb
		BLD0687-DUP2			Ag, Cr, Pb, Zn only
		-MS2			↓
		-MSD2			Ag %R ↓
		↓ -PS2	↓	↓	68mL K7409
		SEQ-IBL6			
		↓ -CCV7			
		↓ -CCB7			
		234D467-02	SWN	20	
		-03	↓	↓	Std Mode no.3y — No Ag, Cr, Pb
		-04			
		-05			
		↓ -01			
		BLD0578-DUP1			
		↓ -MS1	↓	↓	Ag %R ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLDΦ578-MSD1	SWN	20	
		↓ -PS1	↓	↓	60 mL K7409
		SEQ-IBL7			
		-CCV8			
		-CCB8			
		23AΦ467-Φ6	SWN	20	
		-Φ7			
		-Φ8			
		-Φ9			
		230Φ393-Φ4			In, Ir ↑ / As, Cu, Pb, Zn ↑ / Cr only
		BLEΦΦ72-DUP1			
		-MS1			
		-MSD1			
		-PS1	↓	↓	/ 60 mL K7409 /
		SEQ-IBL8			
		-CCV9			
		-CCB9			
		23CΦΦ71-Φ1	SWN	20	
		-Φ2			
		-Φ3			Std looks noisy — No Ag, Cr, Pb
		-Φ4			
		-Φ5			
		-Φ6			
		23CΦ1Φ9-Φ2	↓	↓	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23C01009-03	SWN	20	
		23C01008-02	↓	↓	
		SEQ-IBL9			
		-CCVA			
		-CCBA			
		23C01008-06	SWN	20	
		-07			
		-08			
		-09			
		230000008-01			Std Mode no.3y No Ag, Cr, Pb
		-03			
		230000037-01			
		-03			
		-02			
		SEQ-IBLA			
		-CCVB			
		-CCBB			
	✓	-CAL1			
		-CCVC			
		-CCBC			
		23000037-04	SWN	20	
		23000063-01			
		-03			
		23004152-01	REN	2	Pb only

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23D0462-01	REN	2	Pb only
		23E0135-01	↓		
		↓ -02	↓		
		↓ -03	↓		
		↓ -04	↓		
		SEQ-IBLB			
		↓ -CCVD			
		↓ -CCBD			
		23E0138-01	REN	2	
		23E0139-01	↓	↓	
		↓ -02	↓	↓	
		↓ -03	↓	↓	
		SEQ-IBLC			
		23E0136-01	REN		
		23E0137-01	↓		
		23D0477-21	↓		
		↓ -22	↓		
		SEQ-IBLD			
		↓ -CCVE			
		↓ -CCBE			
		23D0477-11	REN	2	No Pb
		↓ -13	↓	↓	↓
		↓ -02	↓		↓
		23D0480-01	↓	5	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLE			
		230ϕ537-ϕ5	REN	5	Cr only
		BLEϕ12ϕ-DUP3	↓	↓	↓
		-MS3			
		-MSD3	↓	↓	
		SEQ-IBLF			
		-CCVF			Pb↑
		-CCBF			
	✓	-CAL1			
		-CCVG			
		-CCBG			
		230ϕ477-ϕ4	REN		No Pb
		-ϕ6	↓		↓
		-ϕ8			
		-1ϕ			
		-12			
		-2ϕ			
		BLEϕ1ϕ6-DUP1			
		-MS1			
		-MSD1	↓		
		SEQ-IBLG			
		-CCVH			Pb↑
		-CCBH			
		230ϕ477-14	REN		No Pb

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ477-16	REN		No Pb
		-18			
		-Φ1			
		-Φ3			
		-Φ7			
		-Φ9			
		-15			
		230Φ487-Φ2		5	
		SEQ-IBL1			
		-CCVI			
		-CCBI			
		230Φ487-Φ6	REN	2	
		-Φ5			
		-Φ4			
		-Φ3			
		SEQ-IBLI			
		230Φ636-Φ1	REN	10	No Pb
		BLEΦ298-DUP1			
		-MS1			
		-MSD1			
		SEQ-IBLJ			
		-CCVJ			Pb↑
		-CCBJ			
		Rinse/DI			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 10, 2023 14:43:46
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.149
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5723.5	5723.480	56.895	1.0	Standard
	In	114.9	69596.5	-341751.511	924.539	0.3	Standard
	U	238.1	90402.3	90402.284	679.988	0.8	Standard
⌈	CeO	155.9	1526.9	0.017	0.000	1.7	Standard
| >	Ce	139.9	87807.4	87807.445	764.748	0.9	Standard
⌊	Ce++	70.0	422.3	0.005	0.000	1.5	Standard
	Bkgd	220.0	6.3	6.300	3.351	53.2	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/10/2023 2:43:45 PM
End Time: 5/10/2023 2:52:33 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 5723.48
Obtained Intensity (In 115): 69596.54
Obtained Intensity (U 238): 90402.28
Obtained Intensity (Bkgd 220): 6.30 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.005 (=422.34 / 87807.44)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1526.95 / 87807.44)
Obtained RSD (Be 9): 0.0099
Obtained RSD (In 115): 0.0027
Obtained RSD (U 238): 0.0075

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.90 mm	0.96 mm	88181.32

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.92
Obtained Intensity (In 115): 84673.19
Obtained Formula (CeO 156 / Ce 140): 0.0203 (=2063.15 / 101494.26)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.700)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.688)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.701)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -15.80

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.987; Intercept = -15.94

SmartTune Wizard - Details

```
Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/10/2023 2:43:45 PM

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 5723.48
                Obtained Intensity (In 115): 69596.54
                Obtained Intensity (U 238): 90402.28
                Obtained Intensity (Bkgd 220): 6.30 - <Target not achieved>
                Obtained Formula (Ce++ 70 / Ce 140): 0.005 (=422.34 / 87807.44)
                Obtained Formula (CeO 156 / Ce 140): 0.017 (=1526.95 / 87807.44)
                Obtained RSD (Be 9): 0.0099
                Obtained RSD (In 115): 0.0027
                Obtained RSD (U 238): 0.0075

                [Failed]
[Failed]

Torch Alignment
        Optimization Settings:
                Method: Torch Alignment.mth.
                Intensity Criterion: In 115 Maximum

        Optimization Results:
                Vertical      Horizontal      Intensity
[Passed]        0.90 mm     0.96 mm       88181.32

Nebulizer Gas Flow STD/KED [NEB]
        Optimization Settings:
                Method: Optimize.mth.
                        Initial Try - Start/End/Step: 0.89/0.96/0.01.
                Intensity Criterion: In 115 Maximum
                Formula Criterion: CeO 156 / Ce 140 <= 0.025

        Optimization Results:
        Initial Try

                Obtained Intensity (In 115): 84673.19
                Obtained Formula (CeO 156 / Ce 140): 0.0203 (=2063.15 / 101494.26)
[Passed]  Optimum value(s): 0.92
```

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.663) - <Target not achieved>
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.695)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.699)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.684)
[Failed]
Retry 1
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.700)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.688)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.701)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.999; Intercept = -15.80

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-16	46294.9
Mg	24	41	-16	32452.8
In	115	41	-13	86971.9
Ce	140	41	-12	102732
Pb	208	41	-11.5	62146.9
U	238	41	-11.5	114360

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.987; Intercept = -15.94

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-16	37509.2
Mg	24	41	-15.5	70742.7
In	115	41	-13	125291
Ce	140	41	-11.5	108660
Pb	208	41	-11	62379.9

U	238	41	-10.5	141719

End Time: 5/10/2023 2:52:33 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/10/2023 2:52:35 PM
End Time: 5/10/2023 2:53:50 PM

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.998; Intercept = -16.07

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/10/2023 2:52:35 PM

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.998; Intercept = -16.07

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-16	38908.9
Mg	24	41	-15.5	65678.6
In	115	41	-12.5	124315
Ce	140	41	-11.5	108152
Pb	208	41	-11	62408
U	238	41	-11	146831

End Time: 5/10/2023 2:53:50 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 10, 2023 14:53:54
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.157
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6511.5	6511.484	145.377	2.2	Standard
	In	114.9	81325.5	81325.516	897.738	1.1	Standard
	U	238.1	113291.7	113291.661	1664.283	1.5	Standard
⌈	CeO	155.9	1966.6	0.020	0.000	2.4	Standard
| >	Ce	139.9	98993.0	98993.030	999.094	1.0	Standard
⌊	Ce++	70.0	668.1	0.007	0.000	3.1	Standard
	Bkgd	220.0	1.1	1.133	0.650	57.3	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/10/2023 2:53:54 PM
End Time: 5/10/2023 2:55:58 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6511.48
Obtained Intensity (In 115): 81325.52
Obtained Intensity (U 238): 113291.66
Obtained Intensity (Bkgd 220): 1.13
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=668.15 / 98993.03)
Obtained Formula (CeO 156 / Ce 140): 0.020 (=1966.60 / 98993.03)
Obtained RSD (Be 9): 0.0223
Obtained RSD (In 115): 0.0110
Obtained RSD (U 238): 0.0147

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/10/2023 2:53:54 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 6511.48
		Obtained Intensity (In 115): 81325.52
		Obtained Intensity (U 238): 113291.66
		Obtained Intensity (Bkgd 220): 1.13
		Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=668.15 / 98993.03)
		Obtained Formula (CeO 156 / Ce 140): 0.020 (=1966.60 / 98993.03)
		Obtained RSD (Be 9): 0.0223
		Obtained RSD (In 115): 0.0110
		Obtained RSD (U 238): 0.0147

[Passed] Optimum value(s): N/A

End Time: 5/10/2023 2:55:58 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:28:05

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				24207	2	Standard
>	**Sc**	**45**		ug/L				474403	0	Standard
	Cr	**52**		ug/L				8456	1	Standard
	Cr	**53**		ug/L				81	14	Standard
>	**Ge**	**72**		ug/L				28967	4	KED
	Ni	**60**		ug/L				19	10	KED
	Ni	**62**		ug/L				5	78	KED
	Cu	**63**		ug/L				43	9	KED
	Cu	**65**		ug/L				24	15	KED
	Zn	**66**		ug/L				19	22	KED
	Zn	**67**		ug/L				2	173	KED
	As	**75**		ug/L				1	33	KED
	Y	**89**		ug/L				49674	0	Standard
	Kr	**83**		ug/L				32	42	Standard
>	**In-1**	**115**		ug/L				6259	5	KED
	Cd	**111**		ug/L				0	100	KED
	Cd	**114**		ug/L				0	206	KED
>	**In**	**115**		ug/L				474692	1	Standard
	Ag	**107**		ug/L				12	31	Standard
	Ba	**135**		ug/L				15	25	Standard
	Ba	**137**		ug/L				31	30	Standard
>	**Tb**	**159**		ug/L				170775	0	Standard
	Pb	**208**		ug/L				201	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 10, 2023 15:32:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24207	25883	2	Standard
⌈>	**Sc**	**45**		ug/L			474403	523902	3	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.021	4	8456	15234	1	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.020	4	81	873	1	Standard
⌈>	**Ge**	**72**		ug/L			28967	29195	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.034	6	19	780	6	KED
|	**Ni**	**62**	**0.500**	ug/L	0.050	10	5	116	9	KED
|	**Cu**	**63**	**0.500**	ug/L	0.026	5	43	2412	4	KED
|	**Cu**	**65**	**0.500**	ug/L	0.034	6	24	1190	5	KED
|	**Zn**	**66**	**6.000**	ug/L	0.090	1	19	3153	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.211	3	2	498	3	KED
⌊	**As**	**75**	**0.200**	ug/L	0.040	19	1	51	18	KED
	Y	**89**		ug/L			49674	50949	1	Standard
	Kr	**83**		ug/L			32	51	16	Standard
⌈>	**In-1**	**115**		ug/L			6259	6039	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.020	19	0	23	18	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.009	9	0	63	7	KED
⌈>	**In**	**115**		ug/L			474692	480250	1	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.005	2	12	3172	2	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.016	3	15	2622	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.009	1	31	4621	2	Standard
⌈>	**Tb**	**159**		ug/L			170775	172878	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	2	201	9324	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:37:02

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			24207	29617	2	Standard
> Sc	45		ug/L			474403	621120	0	Standard
Cr	52	10.000	ug/L	0.223	2	8456	152564	2	Standard
Cr	53	9.997	ug/L	0.230	2	81	16498	2	Standard
> Ge	72		ug/L			28967	29364	0	KED
Ni	60	9.999	ug/L	0.134	1	19	14840	1	KED
Ni	62	10.001	ug/L	0.349	3	5	2328	3	KED
Cu	63	9.997	ug/L	0.249	2	43	42394	2	KED
Cu	65	9.998	ug/L	0.087	0	24	21761	0	KED
Zn	66	9.987	ug/L	0.291	2	19	5247	2	KED
Zn	67	10.157	ug/L	0.430	4	2	885	3	KED
As	75	10.000	ug/L	0.358	3	1	2452	3	KED
Y	89		ug/L			49674	52739	0	Standard
Kr	83		ug/L			32	46	26	Standard
> In-1	115		ug/L			6259	6173	3	KED
Cd	111	10.000	ug/L	0.443	4	0	2332	4	KED
Cd	114	10.000	ug/L	0.345	3	0	6021	3	KED
> In	115		ug/L			474692	482786	2	Standard
Ag	107	10.000	ug/L	0.201	2	12	164963	1	Standard
Ba	135	10.001	ug/L	0.476	4	15	53839	2	Standard
Ba	137	10.001	ug/L	0.260	2	31	95966	0	Standard
> Tb	159		ug/L			170775	178874	0	Standard
Pb	208	10.000	ug/L	0.139	1	201	905833	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:47:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23729	0	Standard
⎡>	**Sc**	**45**		ug/L				509000	1	Standard
⎢	**Cr**	**52**		ug/L				8828	1	Standard
⎣	**Cr**	**53**		ug/L				74	13	Standard
⎡>	**Ge**	**72**		ug/L				29303	1	KED
⎢	**Ni**	**60**		ug/L				5	21	KED
⎢	**Ni**	**62**		ug/L				1	100	KED
⎢	**Cu**	**63**		ug/L				34	20	KED
⎢	**Cu**	**65**		ug/L				19	27	KED
⎢	**Zn**	**66**		ug/L				23	32	KED
⎢	**Zn**	**67**		ug/L				5	0	KED
⎣	**As**	**75**		ug/L				3	9	KED
	Y	**89**		ug/L				48310	2	Standard
	Kr	**83**		ug/L				47	34	Standard
⎡>	**In-1**	**115**		ug/L				6273	3	KED
⎢	**Cd**	**111**		ug/L				2	49	KED
⎣	**Cd**	**114**		ug/L				4	66	KED
⎡>	**In**	**115**		ug/L				463649	3	Standard
⎢	**Ag**	**107**		ug/L				35	3	Standard
⎢	**Ba**	**135**		ug/L				24	20	Standard
⎣	**Ba**	**137**		ug/L				33	18	Standard
⎡>	**Tb**	**159**		ug/L				169186	2	Standard
⎣	**Pb**	**208**		ug/L				224	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:51:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	25525	0	Standard
⌈>	**Sc**	**45**		ug/L			509000	512472	1	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.020	4	8828	15510	0	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.011	2	74	847	3	Standard
⌈>	**Ge**	**72**		ug/L			29303	29478	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.012	2	5	719	3	KED
|	**Ni**	**62**	**0.500**	ug/L	0.073	14	1	114	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.023	4	34	2502	5	KED
|	**Cu**	**65**	**0.500**	ug/L	0.009	1	19	1297	1	KED
|	**Zn**	**66**	**6.000**	ug/L	0.034	0	23	3137	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.410	6	5	517	5	KED
⌊	**As**	**75**	**0.200**	ug/L	0.016	8	3	49	7	KED
	Y	**89**		ug/L			48310	49051	0	Standard
	Kr	**83**		ug/L			47	36	14	Standard
⌈>	**In-1**	**115**		ug/L			6273	6139	4	KED
|	**Cd**	**111**	**0.100**	ug/L	0.032	31	2	21	31	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.017	16	4	70	16	KED
⌈>	**In**	**115**		ug/L			463649	458533	2	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.006	3	35	3114	1	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.031	6	24	2588	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.021	4	33	4565	3	Standard
⌈>	**Tb**	**159**		ug/L			169186	175328	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	2	224	9061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:56:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28227	5	Standard
⌈>	**Sc**	**45**		ug/L			509000	547188	1	Standard
|	**Cr**	**52**	**10.001**	ug/L	0.180	1	8828	154411	2	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.148	1	74	16549	0	Standard
⌈>	**Ge**	**72**		ug/L			29303	30268	1	KED
|	**Ni**	**60**	**10.001**	ug/L	0.091	0	5	15465	0	KED
|	**Ni**	**62**	**10.001**	ug/L	0.274	2	1	2447	1	KED
|	**Cu**	**63**	**9.996**	ug/L	0.164	1	34	43750	0	KED
|	**Cu**	**65**	**9.995**	ug/L	0.109	1	19	21697	1	KED
|	**Zn**	**66**	**10.019**	ug/L	0.157	1	23	5390	0	KED
|	**Zn**	**67**	**10.037**	ug/L	0.375	3	5	893	2	KED
⌊	**As**	**75**	**10.000**	ug/L	0.098	0	3	2479	0	KED
	Y	**89**		ug/L			48310	52333	3	Standard
	Kr	**83**		ug/L			47	35	29	Standard
⌈>	**In-1**	**115**		ug/L			6273	6321	4	KED
|	**Cd**	**111**	**10.000**	ug/L	0.361	3	2	2354	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.490	4	4	6079	0	KED
⌈>	**In**	**115**		ug/L			463649	495399	2	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.327	3	35	161409	1	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.202	2	24	54582	0	Standard
⌊	**Ba**	**137**	**9.999**	ug/L	0.141	1	33	95918	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	178590	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.024	0	224	903317	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:01:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29878	4	Standard
⎡>	**Sc**	**45**		ug/L			509000	545359	2	Standard
⎢	**Cr**	**52**	**20.025**	ug/L	0.642	3	8828	300001	2	Standard
⎣	**Cr**	**53**	**20.105**	ug/L	0.478	2	74	33786	1	Standard
⎡>	**Ge**	**72**		ug/L			29303	30442	0	KED
⎢	**Ni**	**60**	**19.876**	ug/L	0.260	1	5	30161	1	KED
⎢	**Ni**	**62**	**20.030**	ug/L	0.349	1	1	4958	1	KED
⎢	**Cu**	**63**	**19.912**	ug/L	0.144	0	34	86125	1	KED
⎢	**Cu**	**65**	**20.015**	ug/L	0.243	1	19	43816	1	KED
⎢	**Zn**	**66**	**19.772**	ug/L	0.229	1	23	10331	1	KED
⎢	**Zn**	**67**	**19.846**	ug/L	0.513	2	5	1733	2	KED
⎣	**As**	**75**	**19.906**	ug/L	0.056	0	3	4870	0	KED
	Y	**89**		ug/L			48310	53094	1	Standard
	Kr	**83**		ug/L			47	41	20	Standard
⎡>	**In-1**	**115**		ug/L			6273	6343	2	KED
⎢	**Cd**	**111**	**19.953**	ug/L	0.881	4	2	4669	3	KED
⎣	**Cd**	**114**	**20.027**	ug/L	0.435	2	4	12296	1	KED
⎡>	**In**	**115**		ug/L			463649	489391	1	Standard
⎢	**Ag**	**107**	**19.959**	ug/L	0.325	1	35	315783	3	Standard
⎢	**Ba**	**135**	**19.968**	ug/L	0.582	2	24	106955	1	Standard
⎣	**Ba**	**137**	**20.045**	ug/L	0.402	2	33	191641	0	Standard
⎡>	**Tb**	**159**		ug/L			169186	179464	1	Standard
⎣	**Pb**	**208**	**19.937**	ug/L	0.237	1	224	1786784	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:05:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	25400	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	558473	1	Standard
|	**Cr**	**52**	**49.655**	ug/L	0.911	1	8828	723106	2	Standard
⌊	**Cr**	**53**	**49.854**	ug/L	0.903	1	74	84458	2	Standard
⌈>	**Ge**	**72**		ug/L			29303	30015	2	KED
|	**Ni**	**60**	**49.697**	ug/L	0.680	1	5	72172	3	KED
|	**Ni**	**62**	**49.505**	ug/L	0.762	1	1	11513	2	KED
|	**Cu**	**63**	**49.635**	ug/L	1.321	2	34	204227	4	KED
|	**Cu**	**65**	**49.687**	ug/L	0.309	0	19	103947	1	KED
|	**Zn**	**66**	**49.611**	ug/L	1.423	2	23	24635	4	KED
|	**Zn**	**67**	**49.320**	ug/L	1.429	2	5	3987	4	KED
⌊	**As**	**75**	**49.951**	ug/L	0.505	1	3	11985	2	KED
	Y	**89**		ug/L			48310	50964	0	Standard
	Kr	**83**		ug/L			47	54	10	Standard
⌈>	**In-1**	**115**		ug/L			6273	6292	0	KED
|	**Cd**	**111**	**49.924**	ug/L	0.530	1	2	11505	0	KED
⌊	**Cd**	**114**	**49.773**	ug/L	0.306	0	4	29642	0	KED
⌈>	**In**	**115**		ug/L			463649	482571	0	Standard
|	**Ag**	**107**	**49.781**	ug/L	0.756	1	35	759786	0	Standard
|	**Ba**	**135**	**49.982**	ug/L	0.497	0	24	263565	1	Standard
⌊	**Ba**	**137**	**50.029**	ug/L	0.399	0	33	473061	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	178836	0	Standard
⌊	**Pb**	**208**	**49.835**	ug/L	0.541	1	224	4378529	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:12:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28122	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	558930	1	Standard
|	**Cr**	**52**	**100.051**	ug/L	0.647	0	8828	1450921	2	Standard
⌊	**Cr**	**53**	**99.871**	ug/L	2.158	2	74	168498	0	Standard
⌈>	**Ge**	**72**		ug/L			29303	30158	2	KED
|	**Ni**	**60**	**99.810**	ug/L	1.688	1	5	144647	0	KED
|	**Ni**	**62**	**99.827**	ug/L	1.638	1	1	23190	3	KED
|	**Cu**	**63**	**99.425**	ug/L	2.145	2	34	403052	1	KED
|	**Cu**	**65**	**99.706**	ug/L	2.344	2	19	207473	1	KED
|	**Zn**	**66**	**100.020**	ug/L	2.199	2	23	49885	1	KED
|	**Zn**	**67**	**100.026**	ug/L	1.801	1	5	8123	2	KED
⌊	**As**	**75**	**100.105**	ug/L	1.080	1	3	24213	1	KED
	Y	**89**		ug/L			48310	51944	4	Standard
	Kr	**83**		ug/L			47	57	13	Standard
⌈>	**In-1**	**115**		ug/L			6273	6458	1	KED
|	**Cd**	**111**	**99.701**	ug/L	0.430	0	2	23347	1	KED
⌊	**Cd**	**114**	**99.566**	ug/L	0.654	0	4	59985	0	KED
⌈>	**In**	**115**		ug/L			463649	450932	0	Standard
|	**Ag**	**107**	**101.152**	ug/L	1.685	1	35	1500263	1	Standard
|	**Ba**	**135**	**101.705**	ug/L	0.844	0	24	531312	1	Standard
⌊	**Ba**	**137**	**101.623**	ug/L	2.092	2	33	949210	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	178763	1	Standard
⌊	**Pb**	**208**	**99.203**	ug/L	0.769	0	224	8487184	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:19:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	24581	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	533088	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.014	123	8828	9404	4	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.001	25	74	84	4	Standard
⌈>	**Ge**	**72**		ug/L			29303	30002	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.001	370	5	5	33	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.008	4930	1	1	100	KED
|	**Cu**	**63**	**0.003**	ug/L	0.000	18	34	46	4	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	428	19	22	50	KED
|	**Zn**	**66**	**0.007**	ug/L	0.022	332	23	27	39	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.062	245	5	3	132	KED
⌊	**As**	**75**	**0.004**	ug/L	0.003	71	3	4	17	KED
	Y	**89**		ug/L			48310	48443	1	Standard
	Kr	**83**		ug/L			47	46	13	Standard
⌈>	**In-1**	**115**		ug/L			6273	6574	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.004	71	2	0	100	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	343	4	3	89	KED
⌈>	**In**	**115**		ug/L			463649	469846	4	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	32	35	105	21	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.000	15	24	19	0	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	351	33	37	31	Standard
⌈>	**Tb**	**159**		ug/L			169186	173731	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	37	224	311	8	Standard

Sample Information

Sample Date/Time: Wednesday, May 10, 2023 16:12:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Sc	45							
Cr	52	**1.0000**	0.026	0.50	10	20	50	100
Cr	53	**1.0000**	0.003	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.048	0.50	10	20	50	100
Ni	62	**0.9999**	0.008	0.50	10	20	50	100
Cu	63	**0.9999**	0.134	0.50	10	20	50	100
Cu	65	**1.0000**	0.069	0.50	10	20	50	100
Zn	66	**1.0000**	0.017	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.093	0.10	10	20	50	100
In	115							
Ag	107	**0.9998**	0.033	0.20	10	20	50	100
Ba	135	**0.9995**	0.012	0.50	10	20	50	100
Ba	137	**0.9996**	0.021	0.50	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.479	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:25:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29797	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	564850	0	Standard
|	**Cr**	**52**	**52.907**	ug/L	1.586	2	8828	780016	3	Standard
⌊	**Cr**	**53**	**51.308**	ug/L	1.827	3	74	87546	3	Standard
⌈>	**Ge**	**72**		ug/L			29303	31782	0	KED
|	**Ni**	**60**	**50.903**	ug/L	0.178	0	5	77766	0	KED
|	**Ni**	**62**	**51.012**	ug/L	1.334	2	1	12489	2	KED
|	**Cu**	**63**	**52.299**	ug/L	0.986	1	34	223527	2	KED
|	**Cu**	**65**	**51.383**	ug/L	1.337	2	19	112722	2	KED
|	**Zn**	**66**	**50.838**	ug/L	0.626	1	23	26741	1	KED
|	**Zn**	**67**	**50.580**	ug/L	0.623	1	5	4332	0	KED
⌊	**As**	**75**	**48.181**	ug/L	0.178	0	3	12285	0	KED
	Y	**89**		ug/L			48310	52288	1	Standard
	Kr	**83**		ug/L			47	44	15	Standard
⌈>	**In-1**	**115**		ug/L			6273	6677	2	KED
|	**Cd**	**111**	**51.665**	ug/L	1.744	3	2	12504	2	KED
⌊	**Cd**	**114**	**51.793**	ug/L	1.375	2	4	32251	0	KED
⌈>	**In**	**115**		ug/L			463649	478187	2	Standard
|	**Ag**	**107**	**50.790**	ug/L	1.892	3	35	798375	1	Standard
|	**Ba**	**135**	**49.978**	ug/L	0.851	1	24	276825	1	Standard
⌊	**Ba**	**137**	**50.115**	ug/L	0.177	0	33	496417	2	Standard
⌈>	**Tb**	**159**		ug/L			169186	183312	0	Standard
⌊	**Pb**	**208**	**52.638**	ug/L	1.364	2	224	4617664	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:32:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26356	3	Standard
⌈>	**Sc**	**45**		ug/L			509000	539338	1	Standard
|	**Cr**	**52**	**0.017**	ug/L	0.016	94	8828	9587	1	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.002	123	74	75	6	Standard
⌈>	**Ge**	**72**		ug/L			29303	30568	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.003	424	5	6	69	KED
|	**Ni**	**62**	**0.005**	ug/L	0.012	239	1	3	91	KED
|	**Cu**	**63**	**0.005**	ug/L	0.004	81	34	57	30	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	126	19	28	37	KED
|	**Zn**	**66**	**0.020**	ug/L	0.026	126	23	34	38	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.045	1369	5	5	66	KED
⌊	**As**	**75**	**0.007**	ug/L	0.008	127	3	4	43	KED
	Y	**89**		ug/L			48310	50406	2	Standard
	Kr	**83**		ug/L			47	43	11	Standard
⌈>	**In-1**	**115**		ug/L			6273	6493	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	232	2	1	50	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	65	4	1	176	KED
⌈>	**In**	**115**		ug/L			463649	465713	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	51	35	73	26	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	199	24	21	28	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	389	33	36	31	Standard
⌈>	**Tb**	**159**		ug/L			169186	175668	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	62	224	286	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:37:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26594	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	564599	1	Standard
|	**Cr**	**52**	**51.471**	ug/L	0.725	1	8828	758784	2	Standard
⌊	**Cr**	**53**	**50.536**	ug/L	0.353	0	74	86184	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	32146	1	KED
|	**Ni**	**60**	**49.546**	ug/L	1.173	2	5	76549	1	KED
|	**Ni**	**62**	**49.050**	ug/L	0.276	0	1	12146	1	KED
|	**Cu**	**63**	**49.725**	ug/L	0.346	0	34	214938	0	KED
|	**Cu**	**65**	**49.566**	ug/L	1.054	2	19	109970	1	KED
|	**Zn**	**66**	**49.855**	ug/L	1.259	2	23	26518	1	KED
|	**Zn**	**67**	**50.337**	ug/L	1.507	2	5	4360	2	KED
⌊	**As**	**75**	**49.689**	ug/L	1.019	2	3	12812	1	KED
	Y	**89**		ug/L			48310	53576	2	Standard
	Kr	**83**		ug/L			47	42	34	Standard
⌈>	**In-1**	**115**		ug/L			6273	6756	1	KED
|	**Cd**	**111**	**49.652**	ug/L	0.968	1	2	12162	1	KED
⌊	**Cd**	**114**	**50.647**	ug/L	0.242	0	4	31925	1	KED
⌈>	**In**	**115**		ug/L			463649	482029	1	Standard
|	**Ag**	**107**	**50.096**	ug/L	0.827	1	35	794203	0	Standard
|	**Ba**	**135**	**49.631**	ug/L	0.673	1	24	277141	0	Standard
⌊	**Ba**	**137**	**49.270**	ug/L	0.397	0	33	491965	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	185684	1	Standard
⌊	**Pb**	**208**	**50.279**	ug/L	0.957	1	224	4467825	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:44:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26575	3	Standard
⌈>	**Sc**	**45**		ug/L			509000	541589	1	Standard
|	**Cr**	**52**	**0.006**	ug/L	0.013	204	8828	9483	2	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	84	74	70	11	Standard
⌈>	**Ge**	**72**		ug/L			29303	32305	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.001	42	5	8	13	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.013	2070	1	1	173	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	105	34	41	9	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	17	19	11	16	KED
|	**Zn**	**66**	**0.005**	ug/L	0.012	245	23	28	24	KED
|	**Zn**	**67**	**0.023**	ug/L	0.035	153	5	8	35	KED
⌊	**As**	**75**	**0.004**	ug/L	0.006	144	3	4	37	KED
	Y	**89**		ug/L			48310	50243	2	Standard
	Kr	**83**		ug/L			47	43	16	Standard
⌈>	**In-1**	**115**		ug/L			6273	6862	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.002	70	2	3	17	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	174	4	3	50	KED
⌈>	**In**	**115**		ug/L			463649	462636	4	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	43	35	67	20	Standard
|	**Ba**	**135**	**0.000**	ug/L	0.001	237	24	26	15	Standard
⌊	**Ba**	**137**	**-0.000**	ug/L	0.001	187	33	29	26	Standard
⌈>	**Tb**	**159**		ug/L			169186	175175	2	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	67	224	267	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:49:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29745	3	Standard
⌈>	**Sc**	**45**		ug/L			509000	544043	0	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.009	1	8828	16764	1	Standard
⌊	**Cr**	**53**	**0.501**	ug/L	0.008	1	74	901	2	Standard
⌈>	**Ge**	**72**		ug/L			29303	32168	0	KED
|	**Ni**	**60**	**0.493**	ug/L	0.024	4	5	767	4	KED
|	**Ni**	**62**	**0.476**	ug/L	0.072	15	1	120	14	KED
|	**Cu**	**63**	**0.708**	ug/L	0.010	1	34	3101	2	KED
|	**Cu**	**65**	**0.727**	ug/L	0.032	4	19	1635	3	KED
|	**Zn**	**66**	**6.250**	ug/L	0.152	2	23	3349	2	KED
|	**Zn**	**67**	**6.111**	ug/L	0.086	1	5	535	0	KED
⌊	**As**	**75**	**0.213**	ug/L	0.006	2	3	58	3	KED
	Y	**89**		ug/L			48310	50496	2	Standard
	Kr	**83**		ug/L			47	45	12	Standard
⌈>	**In-1**	**115**		ug/L			6273	6541	2	KED
|	**Cd**	**111**	**0.113**	ug/L	0.021	18	2	29	16	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.023	23	4	64	22	KED
⌈>	**In**	**115**		ug/L			463649	478093	1	Standard
|	**Ag**	**107**	**0.202**	ug/L	0.006	2	35	3206	1	Standard
|	**Ba**	**135**	**0.482**	ug/L	0.013	2	24	2696	3	Standard
⌊	**Ba**	**137**	**0.483**	ug/L	0.017	3	33	4821	3	Standard
⌈>	**Tb**	**159**		ug/L			169186	178239	1	Standard
⌊	**Pb**	**208**	**0.107**	ug/L	0.004	4	224	9331	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:56:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	82148	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	540030	1	Standard
|	**Cr**	**52**	**0.661**	ug/L	0.017	2	8828	18570	2	Standard
⌊	**Cr**	**53**	**1.741**	ug/L	0.086	4	74	2916	6	Standard
⌈>	**Ge**	**72**		ug/L			29303	28977	0	KED
|	**Ni**	**60**	**0.108**	ug/L	0.017	15	5	154	13	KED
|	**Ni**	**62**	**0.119**	ug/L	0.014	11	1	28	11	KED
|	**Cu**	**63**	**0.039**	ug/L	0.002	5	34	186	5	KED
|	**Cu**	**65**	**0.033**	ug/L	0.012	37	19	84	28	KED
|	**Zn**	**66**	**0.312**	ug/L	0.053	17	23	172	13	KED
|	**Zn**	**67**	**0.269**	ug/L	0.085	31	5	26	25	KED
⌊	**As**	**75**	**0.026**	ug/L	0.012	45	3	9	31	KED
	Y	**89**		ug/L			48310	49648	3	Standard
	Kr	**83**		ug/L			47	65	18	Standard
⌈>	**In-1**	**115**		ug/L			6273	5999	0	KED
|	**Cd**	**111**	**0.043**	ug/L	0.020	45	2	11	38	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.012	42	4	19	34	KED
⌈>	**In**	**115**		ug/L			463649	441167	0	Standard
|	**Ag**	**107**	**0.005**	ug/L	0.000	7	35	104	5	Standard
|	**Ba**	**135**	**0.113**	ug/L	0.007	5	24	599	5	Standard
⌊	**Ba**	**137**	**0.114**	ug/L	0.005	4	33	1070	4	Standard
⌈>	**Tb**	**159**		ug/L			169186	167906	0	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.000	0	224	2394	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:00:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	80778	1	Standard
⌈>	**Sc**	**45**		ug/L			509000	530617	1	Standard
|	**Cr**	**52**	**20.186**	ug/L	0.671	3	8828	285340	4	Standard
⌊	**Cr**	**53**	**21.276**	ug/L	0.553	2	74	34155	4	Standard
⌈>	**Ge**	**72**		ug/L			29303	27650	1	KED
|	**Ni**	**60**	**20.512**	ug/L	0.872	4	5	27258	3	KED
|	**Ni**	**62**	**20.858**	ug/L	0.487	2	1	4443	1	KED
|	**Cu**	**63**	**20.580**	ug/L	0.468	2	34	76522	1	KED
|	**Cu**	**65**	**20.103**	ug/L	0.651	3	19	38370	2	KED
|	**Zn**	**66**	**19.662**	ug/L	0.585	2	23	9009	2	KED
|	**Zn**	**67**	**17.951**	ug/L	1.720	9	5	1340	8	KED
⌊	**As**	**75**	**19.651**	ug/L	0.451	2	3	4360	1	KED
	Y	**89**		ug/L			48310	48740	2	Standard
	Kr	**83**		ug/L			47	74	13	Standard
⌈>	**In-1**	**115**		ug/L			6273	6028	0	KED
|	**Cd**	**111**	**18.519**	ug/L	0.593	3	2	4049	2	KED
⌊	**Cd**	**114**	**18.365**	ug/L	0.516	2	4	10330	2	KED
⌈>	**In**	**115**		ug/L			463649	447152	1	Standard
|	**Ag**	**107**	**18.002**	ug/L	0.130	0	35	264803	2	Standard
|	**Ba**	**135**	**0.109**	ug/L	0.010	9	24	587	6	Standard
⌊	**Ba**	**137**	**0.104**	ug/L	0.002	1	33	994	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	168627	2	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	2	224	1705	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:06:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26329	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	556001	2	Standard
|	**Cr**	**52**	**198.368**	ug/L	1.458	0	8828	2851709	2	Standard
⌊	**Cr**	**53**	**195.087**	ug/L	0.307	0	74	327408	2	Standard
⌈>	**Ge**	**72**		ug/L			29303	29227	1	KED
|	**Ni**	**60**	**191.945**	ug/L	3.999	2	5	269634	1	KED
|	**Ni**	**62**	**186.640**	ug/L	4.629	2	1	42024	3	KED
|	**Cu**	**63**	**187.668**	ug/L	2.643	1	34	737510	2	KED
|	**Cu**	**65**	**185.711**	ug/L	3.770	2	19	374570	1	KED
|	**Zn**	**66**	**189.266**	ug/L	0.834	0	23	91483	1	KED
|	**Zn**	**67**	**186.660**	ug/L	4.772	2	5	14685	1	KED
⌊	**As**	**75**	**193.838**	ug/L	1.289	0	3	45439	0	KED
	Y	**89**		ug/L			48310	49992	1	Standard
	Kr	**83**		ug/L			47	83	11	Standard
⌈>	**In-1**	**115**		ug/L			6273	5371	18	KED
|	**Cd**	**111**	**219.502**	ug/L	43.976	20	2	41729	4	KED
⌊	**Cd**	**114**	**220.074**	ug/L	39.817	18	4	107921	4	KED
⌈>	**In**	**115**		ug/L			463649	435715	1	Standard
|	**Ag**	**107**	**193.623**	ug/L	0.562	0	35	2774950	2	Standard
|	**Ba**	**135**	**193.128**	ug/L	4.604	2	24	974609	1	Standard
⌊	**Ba**	**137**	**193.380**	ug/L	2.785	1	33	1745084	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	171188	2	Standard
⌊	**Pb**	**208**	**200.008**	ug/L	5.919	2	224	16378774	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:11:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29606	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	552654	1	Standard
|	**Cr**	**52**	**305.580**	ug/L	3.631	1	8828	4362199	2	Standard
⌊	**Cr**	**53**	**294.803**	ug/L	0.531	0	74	491755	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	28899	0	KED
|	**Ni**	**60**	**290.897**	ug/L	5.116	1	5	404100	2	KED
|	**Ni**	**62**	**288.363**	ug/L	1.622	0	1	64187	0	KED
|	**Cu**	**63**	**287.043**	ug/L	2.289	0	34	1115281	0	KED
|	**Cu**	**65**	**287.453**	ug/L	2.535	0	19	573363	1	KED
|	**Zn**	**66**	**285.291**	ug/L	2.722	0	23	136335	0	KED
|	**Zn**	**67**	**287.574**	ug/L	3.024	1	5	22370	1	KED
⌊	**As**	**75**	**305.011**	ug/L	1.315	0	3	70699	0	KED
	Y	**89**		ug/L			48310	49758	1	Standard
	Kr	**83**		ug/L			47	116	11	Standard
⌈>	**In-1**	**115**		ug/L			6273	6204	3	KED
|	**Cd**	**111**	**292.818**	ug/L	9.764	3	2	65819	0	KED
⌊	**Cd**	**114**	**294.321**	ug/L	10.877	3	4	170207	1	KED
⌈>	**In**	**115**		ug/L			463649	405906	0	Standard
|	**Ag**	**107**	**310.853**	ug/L	5.576	1	35	4149787	1	Standard
|	**Ba**	**135**	**294.858**	ug/L	8.523	2	24	1386297	2	Standard
⌊	**Ba**	**137**	**299.321**	ug/L	3.477	1	33	2516816	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	154666	1	Standard
⌊	**Pb**	**208**	**316.508**	ug/L	5.627	1	224	23425103	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:18:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28126	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	570158	2	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.019	142	8828	10078	2	Standard
⌊	**Cr**	**53**	**0.006**	ug/L	0.004	67	74	93	8	Standard
⌈>	**Ge**	**72**		ug/L			29303	34258	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.003	41	5	15	27	KED
|	**Ni**	**62**	**0.004**	ug/L	0.015	410	1	3	124	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	95	34	54	23	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	51	19	29	9	KED
|	**Zn**	**66**	**0.019**	ug/L	0.018	97	23	38	26	KED
|	**Zn**	**67**	**0.031**	ug/L	0.055	177	5	9	52	KED
⌊	**As**	**75**	**0.013**	ug/L	0.005	36	3	7	17	KED
	Y	**89**		ug/L			48310	52547	0	Standard
	Kr	**83**		ug/L			47	52	20	Standard
⌈>	**In-1**	**115**		ug/L			6273	7246	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.008	8315	2	2	78	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	1197	4	4	43	KED
⌈>	**In**	**115**		ug/L			463649	497647	2	Standard
|	**Ag**	**107**	**0.008**	ug/L	0.002	18	35	175	12	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	54	24	40	19	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.002	44	33	80	23	Standard
⌈>	**Tb**	**159**		ug/L			169186	187495	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	19	224	437	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:24:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28216	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	614310	2	Standard
|	**Cr**	**52**	**49.614**	ug/L	0.154	0	8828	796164	2	Standard
⌊	**Cr**	**53**	**49.306**	ug/L	0.655	1	74	91479	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	33882	0	KED
|	**Ni**	**60**	**48.761**	ug/L	0.591	1	5	79418	1	KED
|	**Ni**	**62**	**49.065**	ug/L	1.020	2	1	12807	2	KED
|	**Cu**	**63**	**50.335**	ug/L	0.792	1	34	229335	1	KED
|	**Cu**	**65**	**49.788**	ug/L	0.248	0	19	116447	0	KED
|	**Zn**	**66**	**49.118**	ug/L	1.011	2	23	27541	1	KED
|	**Zn**	**67**	**51.803**	ug/L	0.793	1	5	4730	2	KED
⌊	**As**	**75**	**50.107**	ug/L	0.465	0	3	13619	0	KED
	Y	**89**		ug/L			48310	55027	0	Standard
	Kr	**83**		ug/L			47	46	15	Standard
⌈>	**In-1**	**115**		ug/L			6273	7119	3	KED
|	**Cd**	**111**	**50.184**	ug/L	1.227	2	2	12949	0	KED
⌊	**Cd**	**114**	**50.175**	ug/L	0.566	1	4	33318	2	KED
⌈>	**In**	**115**		ug/L			463649	504029	0	Standard
|	**Ag**	**107**	**48.797**	ug/L	0.760	1	35	808976	1	Standard
|	**Ba**	**135**	**49.515**	ug/L	0.138	0	24	289131	0	Standard
⌊	**Ba**	**137**	**49.043**	ug/L	0.770	1	33	512033	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	194827	2	Standard
⌊	**Pb**	**208**	**50.847**	ug/L	1.120	2	224	4739539	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:32:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	27340	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	580003	1	Standard
|	**Cr**	**52**	**0.023**	ug/L	0.039	169	8828	10405	7	Standard
⌊	**Cr**	**53**	**0.028**	ug/L	0.037	134	74	133	50	Standard
⌈>	**Ge**	**72**		ug/L			29303	34295	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.003	301	5	7	66	KED
|	**Ni**	**62**	**-0.004**	ug/L	0.008	221	1	1	173	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	646	34	41	15	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.005	8359	19	22	46	KED
|	**Zn**	**66**	**0.009**	ug/L	0.009	100	23	32	15	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.023	606	5	6	34	KED
⌊	**As**	**75**	**0.008**	ug/L	0.012	144	3	5	54	KED
	Y	**89**		ug/L			48310	53554	1	Standard
	Kr	**83**		ug/L			47	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6273	7121	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	159	2	2	24	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	145	4	4	24	KED
⌈>	**In**	**115**		ug/L			463649	495495	2	Standard
|	**Ag**	**107**	**0.030**	ug/L	0.033	110	35	527	103	Standard
|	**Ba**	**135**	**0.024**	ug/L	0.030	120	24	169	102	Standard
⌊	**Ba**	**137**	**0.026**	ug/L	0.031	123	33	303	108	Standard
⌈>	**Tb**	**159**		ug/L			169186	184923	3	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.029	98	224	2932	93	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:37:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26311	4	Standard
⎡>	**Sc**	**45**		ug/L				566891	1	Standard
⎢	**Cr**	**52**		ug/L				10103	1	Standard
⎣	**Cr**	**53**		ug/L				90	11	Standard
⎡>	**Ge**	**72**		ug/L				32698	0	KED
⎢	**Ni**	**60**		ug/L				3	50	KED
⎢	**Ni**	**62**		ug/L				3	34	KED
⎢	**Cu**	**63**		ug/L				24	19	KED
⎢	**Cu**	**65**		ug/L				17	11	KED
⎢	**Zn**	**66**		ug/L				20	48	KED
⎢	**Zn**	**67**		ug/L				3	132	KED
⎣	**As**	**75**		ug/L				3	45	KED
	Y	**89**		ug/L				53020	2	Standard
	Kr	**83**		ug/L				39	12	Standard
⎡>	**In-1**	**115**		ug/L				7060	1	KED
⎢	**Cd**	**111**		ug/L				2	89	KED
⎣	**Cd**	**114**		ug/L				3	68	KED
⎡>	**In**	**115**		ug/L				494263	2	Standard
⎢	**Ag**	**107**		ug/L				53	2	Standard
⎢	**Ba**	**135**		ug/L				15	33	Standard
⎣	**Ba**	**137**		ug/L				16	52	Standard
⎡>	**Tb**	**159**		ug/L				184968	0	Standard
⎣	**Pb**	**208**		ug/L				252	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:41:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	27086	4	Standard
⎡>	**Sc**	**45**		ug/L			566891	602734	1	Standard
⎢	**Cr**	**52**	**50.087**	ug/L	0.634	1	10103	788886	3	Standard
⎣	**Cr**	**53**	**49.352**	ug/L	0.393	0	90	89874	2	Standard
⎡>	**Ge**	**72**		ug/L			32698	34111	1	KED
⎢	**Ni**	**60**	**48.892**	ug/L	0.532	1	3	80169	1	KED
⎢	**Ni**	**62**	**49.253**	ug/L	0.220	0	3	12944	1	KED
⎢	**Cu**	**63**	**49.622**	ug/L	1.349	2	24	227559	1	KED
⎢	**Cu**	**65**	**48.368**	ug/L	0.349	0	17	113892	1	KED
⎢	**Zn**	**66**	**50.735**	ug/L	0.721	1	20	28634	1	KED
⎢	**Zn**	**67**	**50.136**	ug/L	0.936	1	3	4607	3	KED
⎣	**As**	**75**	**49.751**	ug/L	0.619	1	3	13613	0	KED
	Y	**89**		ug/L			53020	55757	1	Standard
	Kr	**83**		ug/L			39	41	29	Standard
⎡>	**In-1**	**115**		ug/L			7060	7062	1	KED
⎢	**Cd**	**111**	**50.589**	ug/L	1.752	3	2	12950	2	KED
⎣	**Cd**	**114**	**50.362**	ug/L	0.801	1	3	33178	2	KED
⎡>	**In**	**115**		ug/L			494263	496605	2	Standard
⎢	**Ag**	**107**	**49.227**	ug/L	0.708	1	53	803963	0	Standard
⎢	**Ba**	**135**	**50.459**	ug/L	2.381	4	15	290080	2	Standard
⎣	**Ba**	**137**	**50.527**	ug/L	1.528	3	16	519526	0	Standard
⎡>	**Tb**	**159**		ug/L			184968	193060	1	Standard
⎣	**Pb**	**208**	**50.413**	ug/L	1.135	2	252	4657369	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:49:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	26387	1	Standard
⌈>	**Sc**	**45**		ug/L			566891	577127	1	Standard
|	**Cr**	**52**	**-0.020**	ug/L	0.010	47	10103	9985	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.004	53	90	78	9	Standard
⌈>	**Ge**	**72**		ug/L			32698	34100	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	33	3	0	173	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.007	131	3	1	100	KED
|	**Cu**	**63**	**0.000**	ug/L	0.001	191	24	26	12	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	121	17	15	21	KED
|	**Zn**	**66**	**0.001**	ug/L	0.003	512	20	22	9	KED
|	**Zn**	**67**	**-0.023**	ug/L	0.020	89	3	1	100	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	4102	3	3	37	KED
	Y	**89**		ug/L			53020	51769	1	Standard
	Kr	**83**		ug/L			39	35	17	Standard
⌈>	**In-1**	**115**		ug/L			7060	7354	2	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	201	2	4	87	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.026	94	3	22	82	KED
⌈>	**In**	**115**		ug/L			494263	493687	2	Standard
|	**Ag**	**107**	**0.006**	ug/L	0.006	98	53	153	65	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.007	220	15	33	118	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.006	151	16	60	111	Standard
⌈>	**Tb**	**159**		ug/L			184968	186545	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.006	143	252	643	86	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:54:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	37670	3	Standard
⌈>	**Sc**	**45**		ug/L			566891	603363	1	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.027	4639	10103	10740	2	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.013	1768	90	97	22	Standard
⌈>	**Ge**	**72**		ug/L			32698	33573	2	KED
|	**Ni**	**60**	**0.004**	ug/L	0.004	101	3	10	66	KED
|	**Ni**	**62**	**-0.003**	ug/L	0.011	368	3	2	114	KED
|	**Cu**	**63**	**0.070**	ug/L	0.006	8	24	340	8	KED
|	**Cu**	**65**	**0.065**	ug/L	0.006	9	17	166	7	KED
|	**Zn**	**66**	**0.172**	ug/L	0.045	25	20	116	21	KED
|	**Zn**	**67**	**0.168**	ug/L	0.041	24	3	19	17	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.006	226	3	2	60	KED
	Y	**89**		ug/L			53020	54713	1	Standard
	Kr	**83**		ug/L			39	42	18	Standard
⌈>	**In-1**	**115**		ug/L			7060	7281	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.002	48	2	3	15	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	367	3	2	121	KED
⌈>	**In**	**115**		ug/L			494263	517690	1	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	105	53	50	14	Standard
|	**Ba**	**135**	**0.005**	ug/L	0.000	6	15	45	2	Standard
⌊	**Ba**	**137**	**0.008**	ug/L	0.001	16	16	98	12	Standard
⌈>	**Tb**	**159**		ug/L			184968	194843	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.001	9	252	1056	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0687-BS2
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:58:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	33195	2	Standard
>	Sc	45		ug/L			566891	555862	11	Standard
	Cr	52	27.319	ug/L	2.314	8	10103	398623	3	Standard
	Cr	53	27.123	ug/L	2.036	7	90	45316	4	Standard
>	Ge	72		ug/L			32698	34536	1	KED
	Ni	60	26.277	ug/L	0.423	1	3	43618	0	KED
	Ni	62	25.531	ug/L	0.733	2	3	6793	1	KED
	Cu	63	26.428	ug/L	0.996	3	24	122696	2	KED
	Cu	65	26.366	ug/L	0.643	2	17	62849	1	KED
	Zn	66	81.431	ug/L	3.435	4	20	46502	2	KED
	Zn	67	77.856	ug/L	1.691	2	3	7239	2	KED
	As	75	24.595	ug/L	0.132	0	3	6815	0	KED
	Y	89		ug/L			53020	50937	11	Standard
	Kr	83		ug/L			39	43	2	Standard
>	In-1	115		ug/L			7060	7171	0	KED
	Cd	111	25.205	ug/L	0.178	0	2	6555	0	KED
	Cd	114	25.527	ug/L	0.381	1	3	17079	1	KED
>	In	115		ug/L			494263	475075	13	Standard
	Ag	107	26.777	ug/L	2.851	10	53	414464	4	Standard
	Ba	135	26.576	ug/L	2.759	10	15	144886	4	Standard
	Ba	137	26.205	ug/L	2.206	8	16	255882	5	Standard
>	Tb	159		ug/L			184968	178000	9	Standard
	Pb	208	27.358	ug/L	1.891	6	252	2320134	3	Standard

ICP-MS Quantitative Analysis - Summary Report

BLD

Sample ID: ~~BLE~~0687-BS2

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 10, 2023 18:05:25

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	33167	3	Standard
>	Sc	45		ug/L			566891	617917	1	Standard
	Cr	52	26.566	ug/L	0.336	1	10103	434021	0	Standard
	Cr	53	25.839	ug/L	0.203	0	90	48285	2	Standard
>	Ge	72		ug/L			32698	35114	0	KED
	Ni	60	26.149	ug/L	0.318	1	3	44138	1	KED
	Ni	62	26.557	ug/L	0.236	0	3	7185	1	KED
	Cu	63	26.719	ug/L	0.111	0	24	126165	0	KED
	Cu	65	26.523	ug/L	0.868	3	17	64298	3	KED
	Zn	66	81.101	ug/L	0.657	0	20	47108	0	KED
	Zn	67	79.743	ug/L	2.633	3	3	7539	3	KED
	As	75	25.028	ug/L	0.475	1	3	7052	1	KED
	Y	89		ug/L			53020	54777	2	Standard
	Kr	83		ug/L			39	56	25	Standard
>	In-1	115		ug/L			7060	7190	2	KED
	Cd	111	25.907	ug/L	1.333	5	2	6749	2	KED
	Cd	114	25.906	ug/L	0.432	1	3	17376	2	KED
>	In	115		ug/L			494263	529323	0	Standard
	Ag	107	25.138	ug/L	0.889	3	53	437657	3	Standard
	Ba	135	25.018	ug/L	0.513	2	15	153411	1	Standard
	Ba	137	25.193	ug/L	0.818	3	16	276243	3	Standard
>	Tb	159		ug/L			184968	195659	1	Standard
	Pb	208	26.664	ug/L	0.249	0	252	2496863	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:11:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	38063	2	Standard
⌈>	Sc	45		ug/L			566891	597496	2	Standard
|	Cr	52	-0.003	ug/L	0.011	446	10103	10607	1	Standard
⌊	Cr	53	0.015	ug/L	0.002	15	90	121	5	Standard
⌈>	Ge	72		ug/L			32698	34566	1	KED
|	Ni	60	0.005	ug/L	0.001	13	3	12	9	KED
|	Ni	62	0.002	ug/L	0.007	416	3	3	50	KED
|	Cu	63	0.028	ug/L	0.004	15	24	154	12	KED
|	Cu	65	0.030	ug/L	0.004	12	17	90	10	KED
|	Zn	66	0.367	ug/L	0.046	12	20	231	10	KED
|	Zn	67	0.380	ug/L	0.094	24	3	39	22	KED
⌊	As	75	-0.002	ug/L	0.003	112	3	2	26	KED
	Y	89		ug/L			53020	53718	2	Standard
	Kr	83		ug/L			39	38	21	Standard
⌈>	In-1	115		ug/L			7060	7412	2	KED
|	Cd	111	-0.002	ug/L	0.004	224	2	1	50	KED
⌊	Cd	114	-0.001	ug/L	0.002	306	3	2	38	KED
⌈>	In	115		ug/L			494263	508864	4	Standard
|	Ag	107	0.001	ug/L	0.001	103	53	76	30	Standard
|	Ba	135	0.044	ug/L	0.001	3	15	276	7	Standard
⌊	Ba	137	0.041	ug/L	0.002	5	16	448	2	Standard
⌈>	Tb	159		ug/L			184968	189447	1	Standard
⌊	Pb	208	0.003	ug/L	0.001	15	252	551	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:15:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	41219	2	Standard
>	Sc	45		ug/L			566891	595237	2	Standard
	Cr	52	26.019	ug/L	0.637	2	10103	409724	2	Standard
	Cr	53	25.701	ug/L	0.388	1	90	46253	0	Standard
>	Ge	72		ug/L			32698	33724	2	KED
	Ni	60	26.223	ug/L	0.188	0	3	42515	3	KED
	Ni	62	25.826	ug/L	0.457	1	3	6712	3	KED
	Cu	63	27.023	ug/L	0.029	0	24	122552	2	KED
	Cu	65	26.364	ug/L	0.662	2	17	61404	4	KED
	Zn	66	84.748	ug/L	0.880	1	20	47269	1	KED
	Zn	67	82.421	ug/L	2.653	3	3	7480	1	KED
	As	75	25.246	ug/L	0.327	1	3	6830	1	KED
	Y	89		ug/L			53020	55215	3	Standard
	Kr	83		ug/L			39	61	32	Standard
>	In-1	115		ug/L			7060	7117	3	KED
	Cd	111	26.003	ug/L	0.830	3	2	6706	1	KED
	Cd	114	25.869	ug/L	1.271	4	3	17159	2	KED
>	In	115		ug/L			494263	501527	1	Standard
	Ag	107	25.380	ug/L	0.349	1	53	418726	1	Standard
	Ba	135	25.446	ug/L	0.398	1	15	147835	0	Standard
	Ba	137	25.147	ug/L	0.112	0	16	261267	1	Standard
>	Tb	159		ug/L			184968	192205	0	Standard
	Pb	208	25.898	ug/L	0.210	0	252	2382531	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0077-MS2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:21:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	40376	1	Standard
>	Sc	45		ug/L			566891	644293	2	Standard
	Cr	52	13.646	ug/L	0.334	2	10103	237982	1	Standard
	Cr	53	13.650	ug/L	0.413	3	90	26636	3	Standard
>	Ge	72		ug/L			32698	35599	1	KED
	Ni	60	14.278	ug/L	0.608	4	3	24427	3	KED
	Ni	62	14.855	ug/L	0.778	5	3	4078	6	KED
	Cu	63	17.856	ug/L	0.146	0	24	85486	1	KED
	Cu	65	17.890	ug/L	0.181	1	17	43971	1	KED
	Zn	66	44.470	ug/L	0.482	1	20	26195	0	KED
	Zn	67	44.109	ug/L	0.983	2	3	4229	1	KED
	As	75	14.390	ug/L	0.229	1	3	4111	0	KED
	Y	89		ug/L			53020	82049	1	Standard
	Kr	83		ug/L			39	44	35	Standard
>	In-1	115		ug/L			7060	7585	1	KED
	Cd	111	13.396	ug/L	0.268	2	2	3686	3	KED
	Cd	114	12.937	ug/L	0.159	1	3	9156	1	KED
>	In	115		ug/L			494263	520828	1	Standard
	Ag	107	13.168	ug/L	0.834	6	53	225463	4	Standard
	Ba	135	18.146	ug/L	0.439	2	15	109466	0	Standard
	Ba	137	18.016	ug/L	0.372	2	16	194342	1	Standard
>	Tb	159		ug/L			184968	198562	2	Standard
	Pb	208	13.622	ug/L	0.430	3	252	1294148	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0297-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:27:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	43660	3	Standard
>	**Sc**	**45**		ug/L			566891	632000	0	Standard
	Cr	**52**	**2.036**	ug/L	0.025	1	10103	44431	0	Standard
	Cr	**53**	**2.030**	ug/L	0.034	1	90	3972	1	Standard
>	**Ge**	**72**		ug/L			32698	35701	1	KED
	Ni	**60**	**2.054**	ug/L	0.066	3	3	3527	2	KED
	Ni	**62**	**2.148**	ug/L	0.146	6	3	593	4	KED
	Cu	**63**	**3.160**	ug/L	0.088	2	24	15197	4	KED
	Cu	**65**	**3.168**	ug/L	0.115	3	17	7823	3	KED
	Zn	**66**	**13.507**	ug/L	0.376	2	20	7993	1	KED
	Zn	**67**	**13.075**	ug/L	0.153	1	3	1260	2	KED
	As	**75**	**0.552**	ug/L	0.034	6	3	161	7	KED
	Y	**89**		ug/L			53020	79010	1	Standard
	Kr	**83**		ug/L			39	41	17	Standard
>	**In-1**	**115**		ug/L			7060	7693	2	KED
	Cd	**111**	**0.040**	ug/L	0.009	23	2	13	17	KED
	Cd	**114**	**0.048**	ug/L	0.010	21	3	37	18	KED
>	**In**	**115**		ug/L			494263	523935	1	Standard
	Ag	**107**	**0.024**	ug/L	0.002	7	53	473	6	Standard
	Ba	**135**	**6.728**	ug/L	0.172	2	15	40843	2	Standard
	Ba	**137**	**6.775**	ug/L	0.223	3	16	73515	1	Standard
>	**Tb**	**159**		ug/L			184968	202392	1	Standard
	Pb	**208**	**12.755**	ug/L	0.082	0	252	1235605	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0728-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:32:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	44324	2	Standard
>	Sc	45		ug/L			566891	616246	1	Standard
	Cr	52	3.859	ug/L	0.104	2	10103	72247	0	Standard
	Cr	53	3.763	ug/L	0.033	0	90	7097	1	Standard
>	Ge	72		ug/L			32698	35016	1	KED
	Ni	60	3.217	ug/L	0.049	1	3	5417	1	KED
	Ni	62	3.072	ug/L	0.041	1	3	831	0	KED
	Cu	63	5.765	ug/L	0.101	1	24	27162	1	KED
	Cu	65	5.632	ug/L	0.198	3	17	13623	1	KED
	Zn	66	25.143	ug/L	0.668	2	20	14575	1	KED
	Zn	67	24.719	ug/L	0.461	1	3	2332	0	KED
	As	75	0.890	ug/L	0.054	6	3	253	5	KED
	Y	89		ug/L			53020	86822	2	Standard
	Kr	83		ug/L			39	38	5	Standard
>	In-1	115		ug/L			7060	7818	1	KED
	Cd	111	0.092	ug/L	0.014	15	2	28	15	KED
	Cd	114	0.078	ug/L	0.020	25	3	60	24	KED
>	In	115		ug/L			494263	505786	3	Standard
	Ag	107	0.019	ug/L	0.001	7	53	378	3	Standard
	Ba	135	12.943	ug/L	0.471	3	15	75798	1	Standard
	Ba	137	12.936	ug/L	0.581	4	16	135424	1	Standard
>	Tb	159		ug/L			184968	196469	1	Standard
	Pb	208	25.694	ug/L	0.107	0	252	2416204	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0728-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:36:54

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	43287	3	Standard
>	Sc	45		ug/L			566891	591647	10	Standard
	Cr	52	9.452	ug/L	0.588	6	10103	154071	5	Standard
	Cr	53	9.291	ug/L	0.725	7	90	16595	2	Standard
>	Ge	72		ug/L			32698	35179	0	KED
	Ni	60	8.374	ug/L	0.172	2	3	14163	1	KED
	Ni	62	8.570	ug/L	0.258	3	3	2325	3	KED
	Cu	63	10.707	ug/L	0.135	1	24	50663	1	KED
	Cu	65	10.695	ug/L	0.305	2	17	25987	3	KED
	Zn	66	41.005	ug/L	0.450	1	20	23871	0	KED
	Zn	67	43.282	ug/L	1.509	3	3	4102	4	KED
	As	75	5.955	ug/L	0.067	1	3	1683	0	KED
	Y	89		ug/L			53020	82678	9	Standard
	Kr	83		ug/L			39	48	26	Standard
>	In-1	115		ug/L			7060	7566	2	KED
	Cd	111	5.358	ug/L	0.095	1	2	1472	2	KED
	Cd	114	5.303	ug/L	0.159	2	3	3745	3	KED
>	In	115		ug/L			494263	487343	10	Standard
	Ag	107	4.919	ug/L	0.394	8	53	78463	4	Standard
	Ba	135	79.346	ug/L	6.937	8	15	445104	2	Standard
	Ba	137	79.361	ug/L	5.203	6	16	797381	4	Standard
>	Tb	159		ug/L			184968	188193	8	Standard
	Pb	208	31.645	ug/L	1.866	5	252	2841204	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:41:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	28394	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	585732	2	Standard
|	**Cr**	**52**	**-0.022**	ug/L	0.003	13	10103	10113	1	Standard
⌊	**Cr**	**53**	**-0.017**	ug/L	0.007	42	90	63	22	Standard
⌈>	**Ge**	**72**		ug/L			32698	33367	0	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	58	3	9	34	KED
|	**Ni**	**62**	**0.007**	ug/L	0.028	390	3	5	141	KED
|	**Cu**	**63**	**0.007**	ug/L	0.006	84	24	54	46	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	513	17	20	71	KED
|	**Zn**	**66**	**0.082**	ug/L	0.030	36	20	66	24	KED
|	**Zn**	**67**	**0.049**	ug/L	0.088	181	3	8	96	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	182	3	2	36	KED
	Y	**89**		ug/L			53020	53017	1	Standard
	Kr	**83**		ug/L			39	46	26	Standard
⌈>	**In-1**	**115**		ug/L			7060	7227	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	150	2	1	114	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.000	5	3	1	4	KED
⌈>	**In**	**115**		ug/L			494263	495365	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	81	53	38	35	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	109	15	27	49	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.001	12	16	66	8	Standard
⌈>	**Tb**	**159**		ug/L			184968	186655	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	252	641	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:45:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	28727	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	609014	3	Standard
|	**Cr**	**52**	**50.570**	ug/L	0.762	1	10103	804391	2	Standard
⌊	**Cr**	**53**	**49.489**	ug/L	1.195	2	90	91015	1	Standard
⌈>	**Ge**	**72**		ug/L			32698	34132	2	KED
|	**Ni**	**60**	**50.592**	ug/L	1.395	2	3	82971	0	KED
|	**Ni**	**62**	**50.224**	ug/L	3.628	7	3	13194	5	KED
|	**Cu**	**63**	**50.541**	ug/L	1.378	2	24	231886	1	KED
|	**Cu**	**65**	**49.221**	ug/L	0.899	1	17	115932	0	KED
|	**Zn**	**66**	**51.252**	ug/L	1.016	1	20	28936	0	KED
|	**Zn**	**67**	**52.016**	ug/L	2.220	4	3	4779	2	KED
⌊	**As**	**75**	**50.828**	ug/L	0.713	1	3	13915	1	KED
	Y	**89**		ug/L			53020	56257	1	Standard
	Kr	**83**		ug/L			39	47	10	Standard
⌈>	**In-1**	**115**		ug/L			7060	7295	0	KED
|	**Cd**	**111**	**50.371**	ug/L	0.324	0	2	13324	0	KED
⌊	**Cd**	**114**	**51.434**	ug/L	0.839	1	3	35003	1	KED
⌈>	**In**	**115**		ug/L			494263	503811	3	Standard
|	**Ag**	**107**	**49.821**	ug/L	1.108	2	53	825169	1	Standard
|	**Ba**	**135**	**50.659**	ug/L	2.522	4	15	295308	1	Standard
⌊	**Ba**	**137**	**49.729**	ug/L	1.869	3	16	518499	0	Standard
⌈>	**Tb**	**159**		ug/L			184968	191232	2	Standard
⌊	**Pb**	**208**	**51.742**	ug/L	0.772	1	252	4734666	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:53:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	27100	6	Standard
⌈>	**Sc**	**45**		ug/L			566891	604751	2	Standard
|	**Cr**	**52**	**-0.032**	ug/L	0.003	8	10103	10287	2	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.003	28	90	76	7	Standard
⌈>	**Ge**	**72**		ug/L			32698	35074	2	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.000	30	3	3	0	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.008	107	3	1	173	KED
|	**Cu**	**63**	**0.006**	ug/L	0.002	32	24	52	14	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	76	17	24	19	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.009	530	20	21	25	KED
|	**Zn**	**67**	**0.004**	ug/L	0.011	296	3	4	24	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	282	3	3	17	KED
	Y	**89**		ug/L			53020	52811	0	Standard
	Kr	**83**		ug/L			39	43	26	Standard
⌈>	**In-1**	**115**		ug/L			7060	7273	3	KED
|	**Cd**	**111**	**0.001**	ug/L	0.005	577	2	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	392	3	4	91	KED
⌈>	**In**	**115**		ug/L			494263	514317	0	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	153	53	64	20	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.001	153	15	13	28	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	65	16	26	22	Standard
⌈>	**Tb**	**159**		ug/L			184968	191895	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	16	252	332	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0301-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:57:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	36132	2	Standard
⌈>	Sc	45		ug/L			566891	602137	1	Standard
|	Cr	52	0.039	ug/L	0.002	4	10103	11333	1	Standard
⌊	Cr	53	0.041	ug/L	0.004	11	90	170	5	Standard
⌈>	Ge	72		ug/L			32698	35755	1	KED
|	Ni	60	0.009	ug/L	0.006	72	3	19	55	KED
|	Ni	62	-0.006	ug/L	0.012	205	3	1	173	KED
|	Cu	63	0.054	ug/L	0.004	7	24	286	5	KED
|	Cu	65	0.049	ug/L	0.005	11	17	139	8	KED
|	Zn	66	0.501	ug/L	0.016	3	20	318	1	KED
|	Zn	67	0.537	ug/L	0.123	22	3	55	21	KED
⌊	As	75	-0.004	ug/L	0.005	131	3	2	60	KED
	Y	89		ug/L			53020	53484	1	Standard
	Kr	83		ug/L			39	42	9	Standard
⌈>	In-1	115		ug/L			7060	7514	4	KED
|	Cd	111	-0.003	ug/L	0.004	162	2	1	69	KED
⌊	Cd	114	0.001	ug/L	0.007	593	3	4	120	KED
⌈>	In	115		ug/L			494263	515717	1	Standard
|	Ag	107	-0.001	ug/L	0.001	165	53	41	59	Standard
|	Ba	135	0.032	ug/L	0.003	7	15	208	8	Standard
⌊	Ba	137	0.034	ug/L	0.005	15	16	380	13	Standard
⌈>	Tb	159		ug/L			184968	188567	0	Standard
⌊	Pb	208	0.013	ug/L	0.001	6	252	1422	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0301-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:02:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	39347	2	Standard
>	Sc	45		ug/L			566891	602736	1	Standard
	Cr	52	25.728	ug/L	0.632	2	10103	410293	1	Standard
	Cr	53	25.069	ug/L	0.544	2	90	45686	0	Standard
>	Ge	72		ug/L			32698	35760	0	KED
	Ni	60	24.931	ug/L	0.329	1	3	42859	2	KED
	Ni	62	25.470	ug/L	0.338	1	3	7019	2	KED
	Cu	63	26.115	ug/L	0.703	2	24	125575	2	KED
	Cu	65	25.523	ug/L	0.337	1	17	63008	1	KED
	Zn	66	81.836	ug/L	1.535	1	20	48404	0	KED
	Zn	67	77.435	ug/L	1.924	2	3	7455	1	KED
	As	75	24.221	ug/L	0.419	1	3	6951	2	KED
	Y	89		ug/L			53020	55246	3	Standard
	Kr	83		ug/L			39	38	17	Standard
>	In-1	115		ug/L			7060	7223	4	KED
	Cd	111	25.786	ug/L	0.757	2	2	6750	1	KED
	Cd	114	25.761	ug/L	0.217	0	3	17358	3	KED
>	In	115		ug/L			494263	502123	3	Standard
	Ag	107	25.046	ug/L	0.929	3	53	413450	2	Standard
	Ba	135	25.125	ug/L	0.881	3	15	146049	0	Standard
	Ba	137	24.829	ug/L	0.821	3	16	258081	0	Standard
>	Tb	159		ug/L			184968	192140	0	Standard
	Pb	208	26.135	ug/L	0.277	1	252	2403344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:07:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	33143	1	Standard
>	Sc	45		ug/L			566891	616779	2	Standard
	Cr	52	-0.028	ug/L	0.019	69	10103	10547	0	Standard
	Cr	53	-0.006	ug/L	0.003	40	90	86	4	Standard
>	Ge	72		ug/L			32698	34454	0	KED
	Ni	60	0.008	ug/L	0.004	46	3	16	35	KED
	Ni	62	-0.003	ug/L	0.008	272	3	2	86	KED
	Cu	63	0.012	ug/L	0.003	29	24	79	20	KED
	Cu	65	0.008	ug/L	0.007	86	17	36	43	KED
	Zn	66	0.171	ug/L	0.019	11	20	119	8	KED
	Zn	67	0.203	ug/L	0.083	40	3	22	33	KED
	As	75	-0.003	ug/L	0.003	91	3	2	28	KED
	Y	89		ug/L			53020	56743	3	Standard
	Kr	83		ug/L			39	53	27	Standard
>	In-1	115		ug/L			7060	7418	0	KED
	Cd	111	-0.004	ug/L	0.002	51	2	1	43	KED
	Cd	114	-0.001	ug/L	0.004	676	3	2	100	KED
>	In	115		ug/L			494263	513562	2	Standard
	Ag	107	0.001	ug/L	0.001	216	53	66	31	Standard
	Ba	135	0.034	ug/L	0.003	9	15	215	6	Standard
	Ba	137	0.034	ug/L	0.001	1	16	377	3	Standard
>	Tb	159		ug/L			184968	193668	0	Standard
	Pb	208	0.007	ug/L	0.000	3	252	869	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-BS1
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:11:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	31606	2	Standard
>	**Sc**	**45**		ug/L			566891	583965	11	Standard
	Cr	**52**	**27.552**	ug/L	2.680	9	10103	422084	3	Standard
	Cr	**53**	**27.385**	ug/L	2.342	8	90	48042	3	Standard
>	**Ge**	**72**		ug/L			32698	33602	2	KED
	Ni	**60**	**26.623**	ug/L	0.960	3	3	42975	0	KED
	Ni	**62**	**26.995**	ug/L	0.969	3	3	6985	1	KED
	Cu	**63**	**27.153**	ug/L	0.763	2	24	122630	0	KED
	Cu	**65**	**26.767**	ug/L	0.624	2	17	62066	0	KED
	Zn	**66**	**82.288**	ug/L	2.082	2	20	45718	0	KED
	Zn	**67**	**78.775**	ug/L	1.406	1	3	7124	0	KED
	As	**75**	**25.075**	ug/L	0.969	3	3	6756	1	KED
	Y	**89**		ug/L			53020	52675	13	Standard
	Kr	**83**		ug/L			39	52	36	Standard
>	**In-1**	**115**		ug/L			7060	7562	3	KED
	Cd	**111**	**24.984**	ug/L	0.283	1	2	6850	1	KED
	Cd	**114**	**24.822**	ug/L	0.916	3	3	17500	0	KED
>	**In**	**115**		ug/L			494263	489071	10	Standard
	Ag	**107**	**26.745**	ug/L	1.759	6	53	428268	4	Standard
	Ba	**135**	**27.408**	ug/L	2.670	9	15	154205	1	Standard
	Ba	**137**	**27.186**	ug/L	2.617	9	16	273527	2	Standard
>	**Tb**	**159**		ug/L			184968	184312	10	Standard
	Pb	**208**	**28.250**	ug/L	2.382	8	252	2477210	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:19:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	30379	2	Standard
>	Sc	45		ug/L			566891	608076	1	Standard
	Cr	52	26.503	ug/L	0.345	1	10103	426187	2	Standard
	Cr	53	26.098	ug/L	0.180	0	90	47989	1	Standard
>	Ge	72		ug/L			32698	35900	1	KED
	Ni	60	25.767	ug/L	0.436	1	3	44460	0	KED
	Ni	62	26.190	ug/L	0.532	2	3	7243	0	KED
	Cu	63	27.050	ug/L	0.206	0	24	130578	1	KED
	Cu	65	26.509	ug/L	0.178	0	17	65696	1	KED
	Zn	66	81.108	ug/L	0.527	0	20	48170	2	KED
	Zn	67	77.729	ug/L	0.535	0	3	7513	1	KED
	As	75	24.804	ug/L	0.297	1	3	7144	1	KED
	Y	89		ug/L			53020	55160	3	Standard
	Kr	83		ug/L			39	68	12	Standard
>	In-1	115		ug/L			7060	7460	2	KED
	Cd	111	25.512	ug/L	0.374	1	2	6904	3	KED
	Cd	114	24.977	ug/L	0.596	2	3	17384	2	KED
>	In	115		ug/L			494263	513378	4	Standard
	Ag	107	26.260	ug/L	0.377	1	53	443361	3	Standard
	Ba	135	26.060	ug/L	1.712	6	15	154721	2	Standard
	Ba	137	25.388	ug/L	1.063	4	16	269741	2	Standard
>	Tb	159		ug/L			184968	194271	3	Standard
	Pb	208	26.682	ug/L	0.951	3	252	2478789	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0728-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:23:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	32572	2	Standard
>	Sc	45		ug/L			566891	634781	1	Standard
	Cr	52	8.923	ug/L	0.181	2	10103	157301	3	Standard
	Cr	53	8.784	ug/L	0.118	1	90	16931	2	Standard
>	Ge	72		ug/L			32698	35227	2	KED
	Ni	60	7.934	ug/L	0.171	2	3	13433	0	KED
	Ni	62	8.105	ug/L	0.290	3	3	2202	3	KED
	Cu	63	10.173	ug/L	0.317	3	24	48187	1	KED
	Cu	65	10.080	ug/L	0.557	5	17	24508	3	KED
	Zn	66	38.423	ug/L	0.769	2	20	22395	0	KED
	Zn	67	40.690	ug/L	1.664	4	3	3860	3	KED
	As	75	5.570	ug/L	0.174	3	3	1576	1	KED
	Y	89		ug/L			53020	85393	1	Standard
	Kr	83		ug/L			39	44	27	Standard
>	In-1	115		ug/L			7060	7444	0	KED
	Cd	111	5.163	ug/L	0.104	2	2	1395	1	KED
	Cd	114	5.160	ug/L	0.024	0	3	3586	0	KED
>	In	115		ug/L			494263	516165	3	Standard
	Ag	107	4.702	ug/L	0.128	2	53	79838	0	Standard
	Ba	135	76.355	ug/L	3.843	5	15	456151	2	Standard
	Ba	137	75.875	ug/L	3.822	5	16	810591	3	Standard
>	Tb	159		ug/L			184968	202938	1	Standard
	Pb	208	30.231	ug/L	0.583	1	252	2935613	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0348-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:28:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	25448	5	Standard
⌈>	Sc	45		ug/L			566891	529281	3	Standard
|	Cr	52	0.440	ug/L	0.008	1	10103	15429	3	Standard
⌊	Cr	53	1.137	ug/L	0.039	3	90	1900	3	Standard
⌈>	Ge	72		ug/L			32698	27739	0	KED
|	Ni	60	1.356	ug/L	0.067	4	3	1811	5	KED
|	Ni	62	1.314	ug/L	0.157	11	3	283	10	KED
|	Cu	63	1.848	ug/L	0.018	0	24	6912	0	KED
|	Cu	65	1.781	ug/L	0.011	0	17	3424	0	KED
|	Zn	66	16.919	ug/L	0.501	2	20	7776	2	KED
|	Zn	67	15.634	ug/L	0.215	1	3	1170	0	KED
⌊	As	75	1.258	ug/L	0.034	2	3	282	3	KED
	Y	89		ug/L			53020	48610	0	Standard
	Kr	83		ug/L			39	43	19	Standard
⌈>	In-1	115		ug/L			7060	5801	2	KED
|	Cd	111	0.005	ug/L	0.004	92	2	2	33	KED
⌊	Cd	114	0.010	ug/L	0.009	90	3	7	62	KED
⌈>	In	115		ug/L			494263	443792	0	Standard
|	Ag	107	0.001	ug/L	0.001	64	53	62	14	Standard
|	Ba	135	0.370	ug/L	0.025	6	15	1916	6	Standard
⌊	Ba	137	0.371	ug/L	0.010	2	16	3427	3	Standard
⌈>	Tb	159		ug/L			184968	173759	1	Standard
⌊	Pb	208	0.116	ug/L	0.001	1	252	9874	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:33:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	24223	2	Standard
⌈>	**Sc**	**45**		ug/L			566891	575088	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.012	171	10103	10143	3	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.011	218	90	100	18	Standard
⌈>	**Ge**	**72**		ug/L			32698	30306	11	KED
|	**Ni**	**60**	**0.002**	ug/L	0.002	106	3	6	56	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.004	58	3	1	86	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	73	24	36	26	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	113	17	21	26	KED
|	**Zn**	**66**	**0.070**	ug/L	0.009	13	20	54	19	KED
|	**Zn**	**67**	**0.035**	ug/L	0.010	28	3	6	17	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.002	52	3	1	25	KED
	Y	**89**		ug/L			53020	52486	2	Standard
	Kr	**83**		ug/L			39	40	9	Standard
⌈>	**In-1**	**115**		ug/L			7060	6912	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	35	2	0	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	164	3	1	103	KED
⌈>	**In**	**115**		ug/L			494263	502957	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	187	53	45	43	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	180	15	19	34	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.001	33	16	49	21	Standard
⌈>	**Tb**	**159**		ug/L			184968	186751	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	10	252	622	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0374-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:40:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	27470	2	Standard
⌈>	Sc	45		ug/L			566891	535366	2	Standard
|	Cr	52	1.485	ug/L	0.027	1	10103	30025	1	Standard
⌊	Cr	53	2.427	ug/L	0.053	2	90	4007	4	Standard
⌈>	Ge	72		ug/L			32698	26716	2	KED
|	Ni	60	0.991	ug/L	0.067	6	3	1276	8	KED
|	Ni	62	0.904	ug/L	0.041	4	3	188	2	KED
|	Cu	63	1.735	ug/L	0.003	0	24	6252	2	KED
|	Cu	65	1.743	ug/L	0.055	3	17	3228	5	KED
|	Zn	66	1.685	ug/L	0.077	4	20	761	6	KED
|	Zn	67	2.401	ug/L	0.167	6	3	175	8	KED
⌊	As	75	0.727	ug/L	0.067	9	3	158	8	KED
	Y	89		ug/L			53020	49651	1	Standard
	Kr	83		ug/L			39	38	15	Standard
⌈>	In-1	115		ug/L			7060	5871	1	KED
|	Cd	111	0.008	ug/L	0.007	86	2	3	41	KED
⌊	Cd	114	0.009	ug/L	0.009	96	3	7	63	KED
⌈>	In	115		ug/L			494263	457235	0	Standard
|	Ag	107	-0.000	ug/L	0.001	375	53	46	22	Standard
|	Ba	135	19.449	ug/L	0.234	1	15	103026	0	Standard
⌊	Ba	137	19.409	ug/L	0.370	1	16	183823	1	Standard
⌈>	Tb	159		ug/L			184968	175956	0	Standard
⌊	Pb	208	0.110	ug/L	0.002	1	252	9480	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:44:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	24303	5	Standard
⌈>	**Sc**	**45**		ug/L			566891	576791	3	Standard
|	**Cr**	**52**	**0.036**	ug/L	0.027	76	10103	10807	3	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.004	15	90	133	5	Standard
⌈>	**Ge**	**72**		ug/L			32698	33136	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.002	203	3	5	66	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.009	6668	3	3	69	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	138	24	20	24	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	284	17	15	37	KED
|	**Zn**	**66**	**0.053**	ug/L	0.010	18	20	50	9	KED
|	**Zn**	**67**	**0.042**	ug/L	0.022	52	3	7	25	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.006	153	3	2	68	KED
	Y	**89**		ug/L			53020	52970	2	Standard
	Kr	**83**		ug/L			39	34	8	Standard
⌈>	**In-1**	**115**		ug/L			7060	6842	2	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.007	143	2	0	173	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	57	3	1	90	KED
⌈>	**In**	**115**		ug/L			494263	506336	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	21	53	30	18	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	49	15	26	21	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.001	35	16	48	23	Standard
⌈>	**Tb**	**159**		ug/L			184968	187814	2	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	5	252	556	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:48:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	24269	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	590553	1	Standard
|	**Cr**	**52**	**51.066**	ug/L	0.308	0	10103	787666	1	Standard
⌊	**Cr**	**53**	**49.455**	ug/L	0.522	1	90	88228	1	Standard
⌈>	**Ge**	**72**		ug/L			32698	33288	2	KED
|	**Ni**	**60**	**49.520**	ug/L	1.070	2	3	79212	1	KED
|	**Ni**	**62**	**50.158**	ug/L	1.195	2	3	12858	0	KED
|	**Cu**	**63**	**50.304**	ug/L	2.007	3	24	225023	1	KED
|	**Cu**	**65**	**50.399**	ug/L	1.418	2	17	115756	1	KED
|	**Zn**	**66**	**51.639**	ug/L	1.107	2	20	28433	1	KED
|	**Zn**	**67**	**50.767**	ug/L	0.397	0	3	4551	1	KED
⌊	**As**	**75**	**49.807**	ug/L	1.104	2	3	13296	0	KED
	Y	**89**		ug/L			53020	54784	0	Standard
	Kr	**83**		ug/L			39	47	4	Standard
⌈>	**In-1**	**115**		ug/L			7060	6811	3	KED
|	**Cd**	**111**	**51.475**	ug/L	1.428	2	2	12706	0	KED
⌊	**Cd**	**114**	**51.093**	ug/L	1.398	2	3	32450	1	KED
⌈>	**In**	**115**		ug/L			494263	508399	2	Standard
|	**Ag**	**107**	**48.081**	ug/L	1.462	3	53	803607	0	Standard
|	**Ba**	**135**	**48.411**	ug/L	0.773	1	15	285047	1	Standard
⌊	**Ba**	**137**	**48.840**	ug/L	0.572	1	16	514273	2	Standard
⌈>	**Tb**	**159**		ug/L			184968	194510	1	Standard
⌊	**Pb**	**208**	**52.796**	ug/L	1.254	2	252	4913375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:56:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	23676	7	Standard
⌈>	**Sc**	**45**		ug/L			566891	595773	0	Standard
|	**Cr**	**52**	**-0.041**	ug/L	0.018	43	10103	9984	3	Standard
⌊	**Cr**	**53**	**-0.018**	ug/L	0.005	27	90	63	14	Standard
⌈>	**Ge**	**72**		ug/L			32698	32613	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.001	345	3	4	49	KED
|	**Ni**	**62**	**0.000**	ug/L	0.005	5394	3	3	34	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	144	24	33	39	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	574	17	16	24	KED
|	**Zn**	**66**	**-0.015**	ug/L	0.002	15	20	12	8	KED
|	**Zn**	**67**	**0.015**	ug/L	0.045	306	3	5	78	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	298	3	2	33	KED
	Y	**89**		ug/L			53020	54754	2	Standard
	Kr	**83**		ug/L			39	36	18	Standard
⌈>	**In-1**	**115**		ug/L			7060	7291	3	KED
|	**Cd**	**111**	**0.001**	ug/L	0.009	818	2	2	94	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	91	3	4	26	KED
⌈>	**In**	**115**		ug/L			494263	530983	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	69	53	74	16	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	164	15	12	45	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	103	16	31	44	Standard
⌈>	**Tb**	**159**		ug/L			184968	189359	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	20	252	351	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:21:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	30742	2	Standard
⌈>	**Sc**	**45**		ug/L			566891	624857	1	Standard
|	**Cr**	**52**	**0.084**	ug/L	0.034	40	10103	12489	5	Standard
⌊	**Cr**	**53**	**0.132**	ug/L	0.039	29	90	350	22	Standard
⌈>	**Ge**	**72**		ug/L			32698	35356	3	KED
|	**Ni**	**60**	**0.546**	ug/L	0.226	41	3	922	37	KED
|	**Ni**	**62**	**0.552**	ug/L	0.142	25	3	153	22	KED
|	**Cu**	**63**	**0.023**	ug/L	0.003	11	24	133	9	KED
|	**Cu**	**65**	**0.022**	ug/L	0.011	48	17	72	36	KED
|	**Zn**	**66**	**0.601**	ug/L	0.108	17	20	372	12	KED
|	**Zn**	**67**	**0.587**	ug/L	0.108	18	3	59	13	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.003	102	3	2	26	KED
	Y	**89**		ug/L			53020	55653	0	Standard
	Kr	**83**		ug/L			39	54	22	Standard
⌈>	**In-1**	**115**		ug/L			7060	7908	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	242	2	1	124	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	386	3	4	68	KED
⌈>	**In**	**115**		ug/L			494263	523603	3	Standard
|	**Ag**	**107**	**0.000**	ug/L	0.001	196	53	64	19	Standard
|	**Ba**	**135**	**0.121**	ug/L	0.027	22	15	751	23	Standard
⌊	**Ba**	**137**	**0.118**	ug/L	0.013	11	16	1298	13	Standard
⌈>	**Tb**	**159**		ug/L			184968	191054	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	7	252	724	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:26:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27881	1	Standard
⌈>	**Sc**	**45**		ug/L				600447	1	Standard
|	**Cr**	**52**		ug/L				10860	1	Standard
⌊	**Cr**	**53**		ug/L				113	5	Standard
⌈>	**Ge**	**72**		ug/L				35776	2	KED
|	**Ni**	**60**		ug/L				145	17	KED
|	**Ni**	**62**		ug/L				28	29	KED
|	**Cu**	**63**		ug/L				53	12	KED
|	**Cu**	**65**		ug/L				29	13	KED
|	**Zn**	**66**		ug/L				87	12	KED
|	**Zn**	**67**		ug/L				19	11	KED
⌊	**As**	**75**		ug/L				2	44	KED
	Y	**89**		ug/L				55660	0	Standard
	Kr	**83**		ug/L				44	13	Standard
⌈>	**In-1**	**115**		ug/L				7587	4	KED
|	**Cd**	**111**		ug/L				4	13	KED
⌊	**Cd**	**114**		ug/L				1	106	KED
⌈>	**In**	**115**		ug/L				519229	3	Standard
⌊	**Ag**	**107**		ug/L				33	13	Standard
⌈>	**Tb**	**159**		ug/L				190542	1	Standard
⌊	**Pb**	**208**		ug/L				524	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:30:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	29050	1	Standard
⌈>	**Sc**	**45**		ug/L			600447	626146	0	Standard
|	**Cr**	**52**	**49.167**	ug/L	0.927	1	10860	804779	2	Standard
⌊	**Cr**	**53**	**49.187**	ug/L	0.914	1	113	93067	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	35306	0	KED
|	**Ni**	**60**	**48.708**	ug/L	1.092	2	145	82805	2	KED
|	**Ni**	**62**	**48.519**	ug/L	1.369	2	28	13221	2	KED
|	**Cu**	**63**	**49.493**	ug/L	0.730	1	53	234973	1	KED
|	**Cu**	**65**	**49.388**	ug/L	0.330	0	29	120371	1	KED
|	**Zn**	**66**	**50.574**	ug/L	1.281	2	87	29610	2	KED
|	**Zn**	**67**	**50.034**	ug/L	0.468	0	19	4773	1	KED
⌊	**As**	**75**	**49.621**	ug/L	0.526	1	2	14052	0	KED
	Y	**89**		ug/L			55660	56069	3	Standard
	Kr	**83**		ug/L			44	62	6	Standard
⌈>	**In-1**	**115**		ug/L			7587	7367	0	KED
|	**Cd**	**111**	**50.587**	ug/L	0.561	1	4	13516	1	KED
⌊	**Cd**	**114**	**50.851**	ug/L	0.642	1	1	34948	1	KED
⌈>	**In**	**115**		ug/L			519229	515799	3	Standard
⌊	**Ag**	**107**	**47.565**	ug/L	1.435	3	33	806664	2	Standard
⌈>	**Tb**	**159**		ug/L			190542	197846	0	Standard
⌊	**Pb**	**208**	**49.588**	ug/L	0.492	0	524	4695653	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	30403	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	612688	0	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.012	42	10860	10643	1	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.007	33	113	80	16	Standard
⌈>	**Ge**	**72**		ug/L			35776	35407	2	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.005	61	145	130	8	KED
|	**Ni**	**62**	**-0.052**	ug/L	0.015	29	28	13	28	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	24	53	64	6	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.004	251	29	25	35	KED
|	**Zn**	**66**	**-0.024**	ug/L	0.007	30	87	72	4	KED
|	**Zn**	**67**	**-0.091**	ug/L	0.043	47	19	10	36	KED
⌊	**As**	**75**	**0.010**	ug/L	0.003	36	2	4	22	KED
	Y	**89**		ug/L			55660	55266	2	Standard
	Kr	**83**		ug/L			44	45	19	Standard
⌈>	**In-1**	**115**		ug/L			7587	7638	0	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.000	0	4	1		KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	80	1	3	34	KED
⌈>	**In**	**115**		ug/L			519229	538099	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	16	33	101	10	Standard
⌈>	**Tb**	**159**		ug/L			190542	193312	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	524	610	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:44:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40138	4	Standard
⌈>	Sc	45		ug/L			600447	621245	1	Standard
|	Cr	52	0.003	ug/L	0.001	45	10860	11280	1	Standard
⌊	Cr	53	0.007	ug/L	0.004	47	113	131	4	Standard
⌈>	Ge	72		ug/L			35776	35226	1	KED
|	Ni	60	0.016	ug/L	0.020	127	145	170	19	KED
|	Ni	62	0.011	ug/L	0.039	354	28	31	33	KED
|	Cu	63	0.003	ug/L	0.003	102	53	67	23	KED
|	Cu	65	0.007	ug/L	0.002	30	29	46	11	KED
|	Zn	66	0.068	ug/L	0.015	22	87	125	6	KED
|	Zn	67	0.057	ug/L	0.101	177	19	24	38	KED
⌊	As	75	-0.003	ug/L	0.003	105	2	1	78	KED
	Y	89		ug/L			55660	55969	0	Standard
	Kr	83		ug/L			44	39	14	Standard
⌈>	In-1	115		ug/L			7587	7906	1	KED
|	Cd	111	-0.007	ug/L	0.008	103	4	2	98	KED
⌊	Cd	114	0.002	ug/L	0.005	193	1	3	93	KED
⌈>	In	115		ug/L			519229	537592	1	Standard
⌊	Ag	107	0.005	ug/L	0.004	76	33	119	54	Standard
⌈>	Tb	159		ug/L			190542	199925	0	Standard
⌊	Pb	208	0.006	ug/L	0.005	84	524	1100	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:48:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37980	2	Standard
>	Sc	45		ug/L			600447	626934	1	Standard
	Cr	52	25.864	ug/L	0.160	0	10860	429230	1	Standard
	Cr	53	25.501	ug/L	0.209	0	113	48367	2	Standard
>	Ge	72		ug/L			35776	35083	0	KED
	Ni	60	26.314	ug/L	0.807	3	145	44509	2	KED
	Ni	62	25.633	ug/L	0.562	2	28	6954	1	KED
	Cu	63	27.020	ug/L	0.634	2	53	127486	1	KED
	Cu	65	27.020	ug/L	0.828	3	29	65447	2	KED
	Zn	66	81.453	ug/L	3.084	3	87	47326	3	KED
	Zn	67	77.935	ug/L	0.929	1	19	7377	0	KED
	As	75	24.974	ug/L	0.394	1	2	7029	1	KED
	Y	89		ug/L			55660	56955	1	Standard
	Kr	83		ug/L			44	48	19	Standard
>	In-1	115		ug/L			7587	7518	2	KED
	Cd	111	25.173	ug/L	0.343	1	4	6865	2	KED
	Cd	114	25.138	ug/L	0.825	3	1	17623	1	KED
>	In	115		ug/L			519229	527783	1	Standard
	Ag	107	25.955	ug/L	0.935	3	33	450479	2	Standard
>	Tb	159		ug/L			190542	197638	2	Standard
	Pb	208	26.529	ug/L	0.826	3	524	2508791	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:53:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37385	3	Standard
⌈>	Sc	45		ug/L			600447	615099	2	Standard
|	Cr	52	0.015	ug/L	0.013	88	10860	11362	1	Standard
⌊	Cr	53	0.002	ug/L	0.005	210	113	120	5	Standard
⌈>	Ge	72		ug/L			35776	34993	1	KED
|	Ni	60	0.065	ug/L	0.008	12	145	250	4	KED
|	Ni	62	0.021	ug/L	0.042	200	28	33	34	KED
|	Cu	63	0.010	ug/L	0.004	39	53	97	17	KED
|	Cu	65	0.009	ug/L	0.003	34	29	51	16	KED
|	Zn	66	0.232	ug/L	0.032	13	87	219	8	KED
|	Zn	67	0.207	ug/L	0.030	14	19	38	7	KED
⌊	As	75	0.001	ug/L	0.009	1125	2	2	105	KED
	Y	89		ug/L			55660	55904	3	Standard
	Kr	83		ug/L			44	43	15	Standard
⌈>	In-1	115		ug/L			7587	7454	2	KED
|	Cd	111	-0.002	ug/L	0.002	84	4	3	15	KED
⌊	Cd	114	0.003	ug/L	0.002	75	1	3	40	KED
⌈>	In	115		ug/L			519229	537278	1	Standard
⌊	Ag	107	0.005	ug/L	0.002	53	33	116	35	Standard
⌈>	Tb	159		ug/L			190542	195405	3	Standard
⌊	Pb	208	0.006	ug/L	0.001	16	524	1060	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36094	2	Standard
⌈>	Sc	45		ug/L			600447	572755	10	Standard
|	Cr	52	27.852	ug/L	2.315	8	10860	419085	4	Standard
⌊	Cr	53	27.110	ug/L	1.969	7	113	46728	4	Standard
⌈>	Ge	72		ug/L			35776	35198	0	KED
|	Ni	60	25.504	ug/L	0.222	0	145	43291	1	KED
|	Ni	62	25.791	ug/L	0.614	2	28	7019	1	KED
|	Cu	63	26.575	ug/L	0.425	1	53	125806	1	KED
|	Cu	65	26.358	ug/L	0.294	1	29	64056	1	KED
|	Zn	66	79.691	ug/L	1.477	1	87	46463	1	KED
|	Zn	67	76.937	ug/L	1.501	1	19	7307	2	KED
⌊	As	75	24.014	ug/L	0.245	1	2	6781	0	KED
	Y	89		ug/L			55660	53298	9	Standard
	Kr	83		ug/L			44	53	40	Standard
⌈>	In-1	115		ug/L			7587	7340	4	KED
|	Cd	111	25.290	ug/L	0.565	2	4	6730	1	KED
⌊	Cd	114	25.211	ug/L	0.729	2	1	17251	1	KED
⌈>	In	115		ug/L			519229	495969	9	Standard
⌊	Ag	107	26.638	ug/L	2.172	8	33	432404	2	Standard
⌈>	Tb	159		ug/L			190542	186305	10	Standard
⌊	Pb	208	27.713	ug/L	2.476	8	524	2455977	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:02:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	49327	2	Standard
⌈>	Sc	45		ug/L			600447	731706	2	Standard
|	Cr	52	12.124	ug/L	0.147	1	10860	241826	1	Standard
⌊	Cr	53	12.156	ug/L	0.116	0	113	26975	1	Standard
⌈>	Ge	72		ug/L			35776	34902	1	KED
|	Ni	60	10.919	ug/L	0.231	2	145	18456	0	KED
|	Ni	62	10.987	ug/L	0.493	4	28	2979	2	KED
|	Cu	63	24.875	ug/L	0.831	3	53	116737	1	KED
|	Cu	65	24.816	ug/L	0.603	2	29	59790	0	KED
|	Zn	66	53.146	ug/L	1.002	1	87	30749	0	KED
|	Zn	67	51.278	ug/L	1.131	2	19	4834	0	KED
⌊	As	75	5.436	ug/L	0.145	2	2	1523	2	KED
	Y	89		ug/L			55660	260380	0	Standard
	Kr	83		ug/L			44	76	23	Standard
⌈>	In-1	115		ug/L			7587	7321	2	KED
|	Cd	111	0.108	ug/L	0.008	7	4	32	8	KED
⌊	Cd	114	0.152	ug/L	0.016	10	1	105	10	KED
⌈>	In	115		ug/L			519229	519189	4	Standard
⌊	Ag	107	0.100	ug/L	0.001	0	33	1748	4	Standard
⌈>	Tb	159		ug/L			190542	217094	0	Standard
⌊	Pb	208	9.840	ug/L	0.276	2	524	1022869	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-DUP2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:07:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	48948	3	Standard
>	Sc	45		ug/L			600447	717992	2	Standard
	Cr	52	12.278	ug/L	0.108	0	10860	240147	1	Standard
	Cr	53	12.202	ug/L	0.281	2	113	26574	3	Standard
>	Ge	72		ug/L			35776	34652	1	KED
	Ni	60	11.215	ug/L	0.148	1	145	18817	0	KED
	Ni	62	10.981	ug/L	0.055	0	28	2958	1	KED
	Cu	63	24.789	ug/L	0.125	0	53	115536	1	KED
	Cu	65	25.011	ug/L	0.663	2	29	59828	1	KED
	Zn	66	52.626	ug/L	0.823	1	87	30233	1	KED
	Zn	67	51.295	ug/L	1.023	1	19	4802	2	KED
	As	75	5.303	ug/L	0.187	3	2	1475	2	KED
	Y	89		ug/L			55660	264619	1	Standard
	Kr	83		ug/L			44	89	9	Standard
>	In-1	115		ug/L			7587	7338	4	KED
	Cd	111	0.127	ug/L	0.015	11	4	37	6	KED
	Cd	114	0.124	ug/L	0.007	5	1	86	9	KED
>	In	115		ug/L			519229	507795	1	Standard
	Ag	107	0.096	ug/L	0.003	3	33	1642	4	Standard
>	Tb	159		ug/L			190542	217783	1	Standard
	Pb	208	9.267	ug/L	0.055	0	524	966473	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-MS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:12:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	43798	4	Standard
>	Sc	45		ug/L			600447	712380	2	Standard
	Cr	52	33.848	ug/L	0.696	2	10860	634231	2	Standard
	Cr	53	33.218	ug/L	0.454	1	113	71537	1	Standard
>	Ge	72		ug/L			35776	34769	1	KED
	Ni	60	35.480	ug/L	0.262	0	145	59435	1	KED
	Ni	62	35.792	ug/L	0.375	1	28	9613	2	KED
	Cu	63	49.044	ug/L	0.181	0	53	229305	0	KED
	Cu	65	49.587	ug/L	0.401	0	29	119023	1	KED
	Zn	66	127.164	ug/L	1.063	0	87	73182	0	KED
	Zn	67	123.226	ug/L	4.628	3	19	11545	2	KED
	As	75	28.650	ug/L	0.300	1	2	7990	0	KED
	Y	89		ug/L			55660	263207	0	Standard
	Kr	83		ug/L			44	70	9	Standard
>	In-1	115		ug/L			7587	7271	0	KED
	Cd	111	24.050	ug/L	0.279	1	4	6344	0	KED
	Cd	114	24.062	ug/L	0.530	2	1	16324	2	KED
>	In	115		ug/L			519229	498952	2	Standard
	Ag	107	20.136	ug/L	0.422	2	33	330380	0	Standard
>	Tb	159		ug/L			190542	217190	0	Standard
	Pb	208	31.824	ug/L	0.401	1	524	3308209	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-MSD2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:16:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42886	5	Standard
>	Sc	45		ug/L			600447	713189	2	Standard
	Cr	52	32.799	ug/L	0.728	2	10860	615560	1	Standard
	Cr	53	32.872	ug/L	0.464	1	113	70870	1	Standard
>	Ge	72		ug/L			35776	34920	2	KED
	Ni	60	34.594	ug/L	0.175	0	145	58202	1	KED
	Ni	62	34.631	ug/L	1.105	3	28	9337	1	KED
	Cu	63	47.676	ug/L	1.144	2	53	223798	0	KED
	Cu	65	47.132	ug/L	2.056	4	29	113539	2	KED
	Zn	66	125.287	ug/L	2.668	2	87	72401	1	KED
	Zn	67	124.246	ug/L	1.881	1	19	11692	1	KED
	As	75	27.961	ug/L	0.434	1	2	7831	1	KED
	Y	89		ug/L			55660	247812	1	Standard
	Kr	83		ug/L			44	69	20	Standard
>	In-1	115		ug/L			7587	7305	2	KED
	Cd	111	24.552	ug/L	0.448	1	4	6504	0	KED
	Cd	114	24.586	ug/L	1.060	4	1	16749	3	KED
>	In	115		ug/L			519229	504337	3	Standard
	Ag	107	17.259	ug/L	0.157	0	33	286300	2	Standard
>	Tb	159		ug/L			190542	221250	1	Standard
	Pb	208	30.874	ug/L	0.352	1	524	3269435	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-PS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:21:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	48757	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	729719	3	Standard
|	**Cr**	**52**	**33.107**	ug/L	0.489	1	10860	635718	2	Standard
⌊	**Cr**	**53**	**32.943**	ug/L	0.273	0	113	72672	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	34959	1	KED
|	**Ni**	**60**	**36.373**	ug/L	0.157	0	145	61261	1	KED
|	**Ni**	**62**	**36.640**	ug/L	0.186	0	28	9894	1	KED
|	**Cu**	**63**	**49.754**	ug/L	0.930	1	53	233872	1	KED
|	**Cu**	**65**	**49.585**	ug/L	0.881	1	29	119664	2	KED
|	**Zn**	**66**	**132.457**	ug/L	3.739	2	87	76640	2	KED
|	**Zn**	**67**	**126.800**	ug/L	2.433	1	19	11947	1	KED
⌊	**As**	**75**	**30.260**	ug/L	0.577	1	2	8485	0	KED
	Y	**89**		ug/L			55660	274282	1	Standard
	Kr	**83**		ug/L			44	81	11	Standard
⌈>	**In-1**	**115**		ug/L			7587	7422	1	KED
|	**Cd**	**111**	**25.084**	ug/L	0.224	0	4	6753	0	KED
⌊	**Cd**	**114**	**25.290**	ug/L	0.359	1	1	17510	0	KED
⌈>	**In**	**115**		ug/L			519229	501845	2	Standard
⌊	**Ag**	**107**	**24.345**	ug/L	0.418	1	33	401777	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	220281	1	Standard
⌊	**Pb**	**208**	**32.333**	ug/L	0.276	0	524	3409321	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:25:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	28733	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	603287	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.014	80	10860	10646	3	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.010	424	113	118	17	Standard
⌈>	**Ge**	**72**		ug/L			35776	35096	0	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	145	314	4	KED
|	**Ni**	**62**	**0.112**	ug/L	0.027	23	28	58	12	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	33	53	71	8	KED
|	**Cu**	**65**	**0.005**	ug/L	0.009	160	29	41	51	KED
|	**Zn**	**66**	**0.017**	ug/L	0.010	60	87	95	6	KED
|	**Zn**	**67**	**-0.043**	ug/L	0.035	81	19	15	21	KED
⌊	**As**	**75**	**0.000**	ug/L	0.003	2492	2	2	44	KED
	Y	**89**		ug/L			55660	53844	3	Standard
	Kr	**83**		ug/L			44	50	7	Standard
⌈>	**In-1**	**115**		ug/L			7587	7525	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	62	4	3	17	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	149	1	4	90	KED
⌈>	**In**	**115**		ug/L			519229	512731	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	11	33	68	8	Standard
⌈>	**Tb**	**159**		ug/L			190542	193475	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	135	524	539	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:29:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27927	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	636370	1	Standard
|	**Cr**	**52**	**49.675**	ug/L	0.721	1	10860	826310	2	Standard
⌊	**Cr**	**53**	**48.401**	ug/L	0.534	1	113	93080	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	34775	2	KED
|	**Ni**	**60**	**49.673**	ug/L	0.162	0	145	83169	2	KED
|	**Ni**	**62**	**50.020**	ug/L	0.731	1	28	13424	2	KED
|	**Cu**	**63**	**50.381**	ug/L	1.600	3	53	235511	1	KED
|	**Cu**	**65**	**49.220**	ug/L	1.166	2	29	118121	0	KED
|	**Zn**	**66**	**51.392**	ug/L	1.224	2	87	29629	2	KED
|	**Zn**	**67**	**52.114**	ug/L	1.313	2	19	4897	4	KED
⌊	**As**	**75**	**50.182**	ug/L	0.760	1	2	13995	0	KED
	Y	**89**		ug/L			55660	56443	3	Standard
	Kr	**83**		ug/L			44	49	15	Standard
⌈>	**In-1**	**115**		ug/L			7587	7362	1	KED
|	**Cd**	**111**	**49.881**	ug/L	1.210	2	4	13314	1	KED
⌊	**Cd**	**114**	**50.034**	ug/L	1.724	3	1	34349	1	KED
⌈>	**In**	**115**		ug/L			519229	514927	3	Standard
⌊	**Ag**	**107**	**48.588**	ug/L	2.233	4	33	822157	2	Standard
⌈>	**Tb**	**159**		ug/L			190542	200300	2	Standard
⌊	**Pb**	**208**	**50.450**	ug/L	1.358	2	524	4835024	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:37:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	26930	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	613915	1	Standard
|	**Cr**	**52**	**-0.009**	ug/L	0.004	42	10860	10962	2	Standard
⌊	**Cr**	**53**	**0.011**	ug/L	0.007	64	113	135	7	Standard
⌈>	**Ge**	**72**		ug/L			35776	34316	3	KED
|	**Ni**	**60**	**0.071**	ug/L	0.027	37	145	257	19	KED
|	**Ni**	**62**	**0.060**	ug/L	0.053	89	28	43	33	KED
|	**Cu**	**63**	**0.023**	ug/L	0.025	111	53	158	76	KED
|	**Cu**	**65**	**0.023**	ug/L	0.027	118	29	82	79	KED
|	**Zn**	**66**	**-0.028**	ug/L	0.029	104	87	68	26	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.051	155	19	15	30	KED
⌊	**As**	**75**	**0.014**	ug/L	0.024	172	2	6	112	KED
	Y	**89**		ug/L			55660	54932	0	Standard
	Kr	**83**		ug/L			44	48	18	Standard
⌈>	**In-1**	**115**		ug/L			7587	7637	1	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.007	75	4	1	124	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	3557	1	1	113	KED
⌈>	**In**	**115**		ug/L			519229	519681	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	6	33	78	5	Standard
⌈>	**Tb**	**159**		ug/L			190542	193231	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	30	524	613	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:41:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	45032	3	Standard
>	Sc	45		ug/L			600447	742114	2	Standard
	Cr	52	15.234	ug/L	0.188	1	10860	304818	3	Standard
	Cr	53	14.955	ug/L	0.198	1	113	33634	2	Standard
>	Ge	72		ug/L			35776	34523	2	KED
	Ni	60	13.744	ug/L	0.476	3	145	22932	0	KED
	Ni	62	13.777	ug/L	0.715	5	28	3687	2	KED
	Cu	63	35.145	ug/L	1.144	3	53	163083	1	KED
	Cu	65	34.406	ug/L	1.355	3	29	81948	1	KED
	Zn	66	67.279	ug/L	2.612	3	87	38459	1	KED
	Zn	67	66.917	ug/L	3.870	5	19	6229	3	KED
	As	75	7.207	ug/L	0.238	3	2	1996	1	KED
	Y	89		ug/L			55660	305809	2	Standard
	Kr	83		ug/L			44	67	10	Standard
>	In-1	115		ug/L			7587	7350	2	KED
	Cd	111	0.179	ug/L	0.026	14	4	51	12	KED
	Cd	114	0.231	ug/L	0.005	2	1	160	4	KED
>	In	115		ug/L			519229	505016	3	Standard
	Ag	107	0.154	ug/L	0.013	8	33	2584	4	Standard
>	Tb	159		ug/L			190542	223968	1	Standard
	Pb	208	14.203	ug/L	0.190	1	524	1522706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:45:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42622	4	Standard
>	Sc	45		ug/L			600447	690566	8	Standard
	Cr	52	15.019	ug/L	0.756	5	10860	279010	4	Standard
	Cr	53	14.873	ug/L	0.661	4	113	31049	4	Standard
>	Ge	72		ug/L			35776	34971	0	KED
	Ni	60	12.825	ug/L	0.224	1	145	21699	1	KED
	Ni	62	13.074	ug/L	0.636	4	28	3549	5	KED
	Cu	63	30.875	ug/L	0.469	1	53	145218	1	KED
	Cu	65	31.639	ug/L	0.368	1	29	76384	0	KED
	Zn	66	60.680	ug/L	0.755	1	87	35170	1	KED
	Zn	67	58.931	ug/L	1.790	3	19	5565	3	KED
	As	75	6.862	ug/L	0.217	3	2	1927	3	KED
	Y	89		ug/L			55660	279514	1	Standard
	Kr	83		ug/L			44	93	4	Standard
>	In-1	115		ug/L			7587	7541	3	KED
	Cd	111	0.206	ug/L	0.031	15	4	60	12	KED
	Cd	114	0.210	ug/L	0.029	13	1	149	12	KED
>	In	115		ug/L			519229	467677	10	Standard
	Ag	107	0.158	ug/L	0.011	6	33	2457	6	Standard
>	Tb	159		ug/L			190542	208844	7	Standard
	Pb	208	14.122	ug/L	0.952	6	524	1406990	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:50:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42039	1	Standard
⌈>	Sc	45		ug/L			600447	722307	1	Standard
|	Cr	52	15.403	ug/L	0.058	0	10860	299782	1	Standard
⌊	Cr	53	15.134	ug/L	0.260	1	113	33122	1	Standard
⌈>	Ge	72		ug/L			35776	34398	1	KED
|	Ni	60	13.305	ug/L	0.513	3	145	22132	2	KED
|	Ni	62	13.397	ug/L	0.866	6	28	3575	5	KED
|	Cu	63	36.367	ug/L	0.976	2	53	168193	1	KED
|	Cu	65	36.194	ug/L	1.342	3	29	85923	2	KED
|	Zn	66	67.215	ug/L	1.956	2	87	38301	1	KED
|	Zn	67	67.347	ug/L	2.218	3	19	6251	2	KED
⌊	As	75	8.338	ug/L	0.373	4	2	2301	3	KED
	Y	89		ug/L			55660	280878	1	Standard
	Kr	83		ug/L			44	83	13	Standard
⌈>	In-1	115		ug/L			7587	7122	1	KED
|	Cd	111	0.253	ug/L	0.034	13	4	69	11	KED
⌊	Cd	114	0.270	ug/L	0.039	14	1	180	15	KED
⌈>	In	115		ug/L			519229	504674	3	Standard
⌊	Ag	107	0.171	ug/L	0.006	3	33	2876	3	Standard
⌈>	Tb	159		ug/L			190542	219689	1	Standard
⌊	Pb	208	16.464	ug/L	0.545	3	524	1730980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:54:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42806	1	Standard
⌈>	Sc	45		ug/L			600447	716286	1	Standard
|	Cr	52	14.519	ug/L	0.159	1	10860	281010	2	Standard
⌊	Cr	53	14.343	ug/L	0.209	1	113	31134	0	Standard
⌈>	Ge	72		ug/L			35776	35309	1	KED
|	Ni	60	11.887	ug/L	0.160	1	145	20315	0	KED
|	Ni	62	12.515	ug/L	0.232	1	28	3432	3	KED
|	Cu	63	30.686	ug/L	0.194	0	53	145729	2	KED
|	Cu	65	30.856	ug/L	0.789	2	29	75198	0	KED
|	Zn	66	59.607	ug/L	0.519	0	87	34885	2	KED
|	Zn	67	59.174	ug/L	0.672	1	19	5643	3	KED
⌊	As	75	6.641	ug/L	0.158	2	2	1883	3	KED
	Y	89		ug/L			55660	284193	1	Standard
	Kr	83		ug/L			44	70	37	Standard
⌈>	In-1	115		ug/L			7587	7365	0	KED
|	Cd	111	0.162	ug/L	0.039	24	4	47	21	KED
⌊	Cd	114	0.184	ug/L	0.024	12	1	128	12	KED
⌈>	In	115		ug/L			519229	495838	1	Standard
⌊	Ag	107	0.144	ug/L	0.007	4	33	2379	5	Standard
⌈>	Tb	159		ug/L			190542	222154	1	Standard
⌊	Pb	208	13.638	ug/L	0.162	1	524	1450648	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:59:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44599	4	Standard
>	Sc	45		ug/L			600447	731713	0	Standard
	Cr	52	14.739	ug/L	0.210	1	10860	291190	1	Standard
	Cr	53	14.638	ug/L	0.276	1	113	32460	2	Standard
>	Ge	72		ug/L			35776	35401	1	KED
	Ni	60	12.912	ug/L	0.463	3	145	22105	1	KED
	Ni	62	13.360	ug/L	0.173	1	28	3671	2	KED
	Cu	63	30.949	ug/L	0.224	0	53	147347	1	KED
	Cu	65	30.919	ug/L	0.887	2	29	75545	1	KED
	Zn	66	59.526	ug/L	1.559	2	87	34920	1	KED
	Zn	67	58.622	ug/L	1.849	3	19	5602	1	KED
	As	75	6.546	ug/L	0.025	0	2	1860	2	KED
	Y	89		ug/L			55660	287110	1	Standard
	Kr	83		ug/L			44	80	8	Standard
>	In-1	115		ug/L			7587	7523	1	KED
	Cd	111	0.226	ug/L	0.023	10	4	65	8	KED
	Cd	114	0.271	ug/L	0.051	18	1	192	19	KED
>	In	115		ug/L			519229	509267	1	Standard
	Ag	107	0.139	ug/L	0.004	2	33	2357	2	Standard
>	Tb	159		ug/L			190542	226516	2	Standard
	Pb	208	13.207	ug/L	0.260	1	524	1431982	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:03:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	45160	2	Standard
⌈>	Sc	45		ug/L			600447	709676	1	Standard
|	Cr	52	15.013	ug/L	0.150	0	10860	287439	2	Standard
⌊	Cr	53	14.978	ug/L	0.160	1	113	32210	0	Standard
⌈>	Ge	72		ug/L			35776	35230	1	KED
|	Ni	60	13.396	ug/L	0.331	2	145	22823	1	KED
|	Ni	62	13.330	ug/L	0.172	1	28	3645	2	KED
|	Cu	63	30.968	ug/L	0.110	0	53	146728	1	KED
|	Cu	65	31.310	ug/L	0.657	2	29	76161	2	KED
|	Zn	66	63.015	ug/L	0.738	1	87	36788	0	KED
|	Zn	67	62.204	ug/L	1.138	1	19	5916	2	KED
⌊	As	75	6.961	ug/L	0.186	2	2	1968	1	KED
	Y	89		ug/L			55660	283560	1	Standard
	Kr	83		ug/L			44	85	22	Standard
⌈>	In-1	115		ug/L			7587	7404	1	KED
|	Cd	111	0.232	ug/L	0.043	18	4	66	17	KED
⌊	Cd	114	0.233	ug/L	0.017	7	1	162	8	KED
⌈>	In	115		ug/L			519229	492481	0	Standard
⌊	Ag	107	0.145	ug/L	0.004	2	33	2386	3	Standard
⌈>	Tb	159		ug/L			190542	220224	3	Standard
⌊	Pb	208	13.158	ug/L	0.300	2	524	1386701	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:08:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41520	3	Standard
>	Sc	45		ug/L			600447	717446	3	Standard
	Cr	52	33.556	ug/L	0.650	1	10860	633326	3	Standard
	Cr	53	33.648	ug/L	0.689	2	113	72972	2	Standard
>	Ge	72		ug/L			35776	35212	3	KED
	Ni	60	35.184	ug/L	2.100	5	145	59616	2	KED
	Ni	62	34.676	ug/L	1.662	4	28	9422	1	KED
	Cu	63	52.193	ug/L	2.020	3	53	246942	1	KED
	Cu	65	52.053	ug/L	2.137	4	29	126415	1	KED
	Zn	66	126.817	ug/L	6.484	5	87	73838	2	KED
	Zn	67	124.720	ug/L	2.442	1	19	11832	1	KED
	As	75	27.696	ug/L	0.850	3	2	7818	0	KED
	Y	89		ug/L			55660	271396	0	Standard
	Kr	83		ug/L			44	100	14	Standard
>	In-1	115		ug/L			7587	7455	2	KED
	Cd	111	22.716	ug/L	0.408	1	4	6142	1	KED
	Cd	114	22.248	ug/L	0.741	3	1	15469	2	KED
>	In	115		ug/L			519229	514419	4	Standard
	Ag	107	18.205	ug/L	0.801	4	33	307640	0	Standard
>	Tb	159		ug/L			190542	221393	0	Standard
	Pb	208	33.456	ug/L	0.468	1	524	3545238	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:12:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44015	3	Standard
>	Sc	45		ug/L			600447	721052	3	Standard
	Cr	52	36.977	ug/L	0.616	1	10860	700011	2	Standard
	Cr	53	37.171	ug/L	1.010	2	113	80983	2	Standard
>	Ge	72		ug/L			35776	34237	2	KED
	Ni	60	39.106	ug/L	0.914	2	145	64469	0	KED
	Ni	62	38.644	ug/L	0.795	2	28	10214	0	KED
	Cu	63	57.815	ug/L	0.699	1	53	266134	1	KED
	Cu	65	57.115	ug/L	0.664	1	29	134960	1	KED
	Zn	66	142.699	ug/L	4.197	2	87	80822	0	KED
	Zn	67	135.117	ug/L	3.802	2	19	12463	1	KED
	As	75	30.878	ug/L	0.621	2	2	8478	0	KED
	Y	89		ug/L			55660	287252	1	Standard
	Kr	83		ug/L			44	95	12	Standard
>	In-1	115		ug/L			7587	7377	2	KED
	Cd	111	25.360	ug/L	0.541	2	4	6784	0	KED
	Cd	114	25.469	ug/L	0.366	1	1	17530	3	KED
>	In	115		ug/L			519229	497333	1	Standard
	Ag	107	19.764	ug/L	0.913	4	33	323142	2	Standard
>	Tb	159		ug/L			190542	219212	0	Standard
	Pb	208	37.388	ug/L	0.368	0	524	3923097	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:16:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	45372	6	Standard
⌈>	**Sc**	**45**		ug/L			600447	718540	2	Standard
|	**Cr**	**52**	**36.741**	ug/L	0.599	1	10860	693185	1	Standard
⌊	**Cr**	**53**	**36.056**	ug/L	0.837	2	113	78288	0	Standard
⌈>	**Ge**	**72**		ug/L			35776	34859	1	KED
|	**Ni**	**60**	**37.401**	ug/L	0.136	0	145	62811	1	KED
|	**Ni**	**62**	**38.589**	ug/L	0.944	2	28	10387	2	KED
|	**Cu**	**63**	**56.121**	ug/L	0.896	1	53	263033	0	KED
|	**Cu**	**65**	**55.252**	ug/L	1.012	1	29	132930	0	KED
|	**Zn**	**66**	**138.618**	ug/L	1.496	1	87	79980	1	KED
|	**Zn**	**67**	**132.100**	ug/L	4.039	3	19	12408	2	KED
⌊	**As**	**75**	**30.730**	ug/L	0.687	2	2	8591	0	KED
	Y	**89**		ug/L			55660	288018	2	Standard
	Kr	**83**		ug/L			44	80	8	Standard
⌈>	**In-1**	**115**		ug/L			7587	7491	3	KED
|	**Cd**	**111**	**24.290**	ug/L	0.743	3	4	6597	1	KED
⌊	**Cd**	**114**	**24.183**	ug/L	0.272	1	1	16899	2	KED
⌈>	**In**	**115**		ug/L			519229	508102	0	Standard
⌊	**Ag**	**107**	**24.891**	ug/L	0.312	1	33	416033	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	220946	1	Standard
⌊	**Pb**	**208**	**37.236**	ug/L	0.193	0	524	3937864	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:21:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27642	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	603813	2	Standard
|	**Cr**	**52**	**-0.051**	ug/L	0.021	41	10860	10122	2	Standard
⌊	**Cr**	**53**	**-0.013**	ug/L	0.005	41	113	90	8	Standard
⌈>	**Ge**	**72**		ug/L			35776	35433	2	KED
|	**Ni**	**60**	**0.021**	ug/L	0.007	33	145	179	6	KED
|	**Ni**	**62**	**0.047**	ug/L	0.030	63	28	41	20	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	110	53	62	15	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	43	29	34	5	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.015	32	87	60	13	KED
|	**Zn**	**67**	**-0.092**	ug/L	0.078	84	19	10	71	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.004	850	2	2	48	KED
	Y	**89**		ug/L			55660	56192	1	Standard
	Kr	**83**		ug/L			44	38	7	Standard
⌈>	**In-1**	**115**		ug/L			7587	7673	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.003	40	4	1	50	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	205	1	3	104	KED
⌈>	**In**	**115**		ug/L			519229	511235	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	5	33	62	0	Standard
⌈>	**Tb**	**159**		ug/L			190542	202248	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	102	524	535	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:25:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27192	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	608622	1	Standard
|	**Cr**	**52**	**50.684**	ug/L	0.378	0	10860	805976	1	Standard
⌊	**Cr**	**53**	**49.678**	ug/L	1.026	2	113	91340	1	Standard
⌈>	**Ge**	**72**		ug/L			35776	35568	0	KED
|	**Ni**	**60**	**48.330**	ug/L	0.870	1	145	82768	1	KED
|	**Ni**	**62**	**48.442**	ug/L	0.639	1	28	13298	1	KED
|	**Cu**	**63**	**49.417**	ug/L	0.579	1	53	236363	1	KED
|	**Cu**	**65**	**48.231**	ug/L	1.469	3	29	118414	2	KED
|	**Zn**	**66**	**49.608**	ug/L	0.551	1	87	29261	1	KED
|	**Zn**	**67**	**49.324**	ug/L	1.186	2	19	4740	2	KED
⌊	**As**	**75**	**49.969**	ug/L	0.076	0	2	14256	0	KED
	Y	**89**		ug/L			55660	56809	4	Standard
	Kr	**83**		ug/L			44	47	18	Standard
⌈>	**In-1**	**115**		ug/L			7587	7389	1	KED
|	**Cd**	**111**	**49.546**	ug/L	1.061	2	4	13275	1	KED
⌊	**Cd**	**114**	**49.494**	ug/L	0.422	0	1	34117	1	KED
⌈>	**In**	**115**		ug/L			519229	506372	2	Standard
⌊	**Ag**	**107**	**49.532**	ug/L	0.924	1	33	824893	2	Standard
⌈>	**Tb**	**159**		ug/L			190542	201346	2	Standard
⌊	**Pb**	**208**	**50.146**	ug/L	1.169	2	524	4830970	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:32:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27637	6	Standard
⌈>	**Sc**	**45**		ug/L			600447	601964	1	Standard
|	**Cr**	**52**	**-0.026**	ug/L	0.016	62	10860	10474	1	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.003	63	113	103	4	Standard
⌈>	**Ge**	**72**		ug/L			35776	36137	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.012	73	145	174	12	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.014	32	28	16	24	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	112	53	66	21	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	67	29	33	8	KED
|	**Zn**	**66**	**-0.036**	ug/L	0.015	41	87	66	12	KED
|	**Zn**	**67**	**-0.081**	ug/L	0.028	34	19	12	24	KED
⌊	**As**	**75**	**0.003**	ug/L	0.007	258	2	3	65	KED
	Y	**89**		ug/L			55660	54450	2	Standard
	Kr	**83**		ug/L			44	43	21	Standard
⌈>	**In-1**	**115**		ug/L			7587	7720	2	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.005	57	4	1	91	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	180	1	2	70	KED
⌈>	**In**	**115**		ug/L			519229	507656	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	25	33	67	14	Standard
⌈>	**Tb**	**159**		ug/L			190542	194063	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	133	524	566	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:37:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44112	4	Standard
⌈>	Sc	45		ug/L			600447	709054	2	Standard
|	Cr	52	13.866	ug/L	0.406	2	10860	266055	0	Standard
⌊	Cr	53	14.000	ug/L	0.297	2	113	30081	1	Standard
⌈>	Ge	72		ug/L			35776	34999	2	KED
|	Ni	60	11.928	ug/L	0.327	2	145	20201	1	KED
|	Ni	62	11.602	ug/L	0.091	0	28	3155	1	KED
|	Cu	63	30.347	ug/L	0.908	2	53	142788	1	KED
|	Cu	65	29.640	ug/L	1.166	3	29	71581	1	KED
|	Zn	66	67.932	ug/L	2.944	4	87	39370	2	KED
|	Zn	67	65.305	ug/L	2.153	3	19	6167	1	KED
⌊	As	75	7.893	ug/L	0.118	1	2	2217	1	KED
	Y	89		ug/L			55660	269034	2	Standard
	Kr	83		ug/L			44	83	10	Standard
⌈>	In-1	115		ug/L			7587	7517	0	KED
|	Cd	111	0.202	ug/L	0.025	12	4	59	11	KED
⌊	Cd	114	0.197	ug/L	0.029	14	1	139	14	KED
⌈>	In	115		ug/L			519229	510602	1	Standard
⌊	Ag	107	0.120	ug/L	0.002	1	33	2052	2	Standard
⌈>	Tb	159		ug/L			190542	219802	3	Standard
⌊	Pb	208	11.171	ug/L	0.325	2	524	1174869	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:41:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42440	3	Standard
>	Sc	45		ug/L			600447	715357	1	Standard
	Cr	52	12.859	ug/L	0.040	0	10860	250000	1	Standard
	Cr	53	13.009	ug/L	0.357	2	113	28218	3	Standard
>	Ge	72		ug/L			35776	34864	1	KED
	Ni	60	13.775	ug/L	0.257	1	145	23223	1	KED
	Ni	62	13.798	ug/L	0.584	4	28	3734	5	KED
	Cu	63	24.510	ug/L	0.357	1	53	114927	0	KED
	Cu	65	24.470	ug/L	0.195	0	29	58904	0	KED
	Zn	66	53.122	ug/L	1.279	2	87	30701	1	KED
	Zn	67	53.087	ug/L	0.536	1	19	4999	0	KED
	As	75	6.441	ug/L	0.043	0	2	1803	0	KED
	Y	89		ug/L			55660	266859	1	Standard
	Kr	83		ug/L			44	73	3	Standard
>	In-1	115		ug/L			7587	7219	2	KED
	Cd	111	0.125	ug/L	0.023	18	4	36	14	KED
	Cd	114	0.155	ug/L	0.036	23	1	106	25	KED
>	In	115		ug/L			519229	505027	1	Standard
	Ag	107	0.096	ug/L	0.002	2	33	1635	3	Standard
>	Tb	159		ug/L			190542	222110	1	Standard
	Pb	208	9.491	ug/L	0.215	2	524	1009179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:46:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42216	5	Standard
>	Sc	45		ug/L			600447	737126	2	Standard
	Cr	52	15.985	ug/L	0.581	3	10860	316818	1	Standard
	Cr	53	15.684	ug/L	0.237	1	113	35018	1	Standard
>	Ge	72		ug/L			35776	34661	1	KED
	Ni	60	13.792	ug/L	0.237	1	145	23115	0	KED
	Ni	62	13.986	ug/L	0.109	0	28	3761	1	KED
	Cu	63	36.202	ug/L	0.537	1	53	168737	0	KED
	Cu	65	36.196	ug/L	0.297	0	29	86607	0	KED
	Zn	66	68.237	ug/L	0.710	1	87	39187	0	KED
	Zn	67	64.700	ug/L	1.108	1	19	6053	0	KED
	As	75	7.814	ug/L	0.160	2	2	2174	0	KED
	Y	89		ug/L			55660	305716	1	Standard
	Kr	83		ug/L			44	94	9	Standard
>	In-1	115		ug/L			7587	7387	3	KED
	Cd	111	0.230	ug/L	0.034	14	4	65	10	KED
	Cd	114	0.189	ug/L	0.020	10	1	132	12	KED
>	In	115		ug/L			519229	504320	1	Standard
	Ag	107	0.173	ug/L	0.003	1	33	2906	2	Standard
>	Tb	159		ug/L			190542	220823	3	Standard
	Pb	208	16.723	ug/L	0.540	3	524	1766569	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:50:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36941	3	Standard
⌈>	Sc	45		ug/L			600447	707482	1	Standard
|	Cr	52	13.403	ug/L	0.125	0	10860	257172	1	Standard
⌊	Cr	53	12.977	ug/L	0.121	0	113	27843	2	Standard
⌈>	Ge	72		ug/L			35776	35020	0	KED
|	Ni	60	12.070	ug/L	0.218	1	145	20458	1	KED
|	Ni	62	12.224	ug/L	0.385	3	28	3325	3	KED
|	Cu	63	25.027	ug/L	0.373	1	53	117881	1	KED
|	Cu	65	24.754	ug/L	0.415	1	29	59854	1	KED
|	Zn	66	60.844	ug/L	0.755	1	87	35314	0	KED
|	Zn	67	108.303	ug/L	2.395	2	19	10225	1	KED
⌊	As	75	5.746	ug/L	0.088	1	2	1616	1	KED
	Y	89		ug/L			55660	254580	0	Standard
	Kr	83		ug/L			44	77	7	Standard
⌈>	In-1	115		ug/L			7587	7416	2	KED
|	Cd	111	0.125	ug/L	0.025	19	4	37	19	KED
⌊	Cd	114	0.136	ug/L	0.011	7	1	95	8	KED
⌈>	In	115		ug/L			519229	494495	1	Standard
⌊	Ag	107	0.103	ug/L	0.004	3	33	1702	2	Standard
⌈>	Tb	159		ug/L			190542	218399	1	Standard
⌊	Pb	208	11.623	ug/L	0.140	1	524	1215246	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:54:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	28956	0	Standard
>	Sc	45		ug/L			600447	632927	2	Standard
	Cr	52	83.030	ug/L	1.894	2	10860	1365955	3	Standard
	Cr	53	82.553	ug/L	2.117	2	113	157762	1	Standard
>	Ge	72		ug/L			35776	31287	1	KED
	Ni	60	23.659	ug/L	0.556	2	145	35697	0	KED
	Ni	62	27.194	ug/L	0.581	2	28	6576	0	KED
	Cu	63	2498.049	ug/L	48.349	1	53	10506397	1	KED
	Cu	65	2569.123	ug/L	57.301	2	29	5546287	0	KED
	Zn	66	7354.329	ug/L	288.789	3	87	3803532	3	KED
	Zn	67	6774.525	ug/L	131.191	1	19	570411	2	KED
	As	75	1054.444	ug/L	16.893	1	2	264562	0	KED
	Y	89		ug/L			55660	282337	3	Standard
	Kr	83		ug/L			44	108	15	Standard
>	In-1	115		ug/L			7587	16696	0	KED
	Cd	111	2.127	ug/L	0.026	1	4	1296	1	KED
	Cd	114	2.036	ug/L	0.022	1	1	3175	0	KED
>	In	115		ug/L			519229	910777	0	Standard
	Ag	107	0.753	ug/L	0.018	2	33	22621	2	Standard
>	Tb	159		ug/L			190542	158646	1	Standard
	Pb	208	1211.380	ug/L	38.633	3	524	91952848	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:59:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27881	30314	5	Standard
> Sc	45		ug/L			600447	626535	3	Standard
Cr	52	85.240	ug/L	2.397	2	10860	1386839	0	Standard
Cr	53	84.038	ug/L	2.060	2	113	158948	2	Standard
> Ge	72		ug/L			35776	30534	0	KED
Ni	60	24.774	ug/L	0.555	2	145	36484	2	KED
Ni	62	29.303	ug/L	0.311	1	28	6915	0	KED
Cu	63	2817.731	ug/L	58.540	2	53	11567687	2	KED
Cu	65	2764.990	ug/L	27.962	1	29	5826764	0	KED
Zn	66	7637.721	ug/L	56.656	0	87	3856088	0	KED
Zn	67	7060.766	ug/L	69.114	0	19	580207	0	KED
As	75	1082.369	ug/L	5.384	0	2	265078	0	KED
Y	89		ug/L			55660	316457	1	Standard
Kr	83		ug/L			44	93	15	Standard
> In-1	115		ug/L			7587	15962	1	KED
Cd	111	2.478	ug/L	0.072	2	4	1442	3	KED
Cd	114	2.439	ug/L	0.022	0	1	3635	0	KED
> In	115		ug/L			519229	899865	0	Standard
Ag	107	0.832	ug/L	0.021	2	33	24686	1	Standard
> Tb	159		ug/L			190542	160807	0	Standard
Pb	208	1201.329	ug/L	19.280	1	524	92444349	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:03:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	27291	5	Standard
>	Sc	45		ug/L			600447	608593	1	Standard
	Cr	52	110.095	ug/L	3.295	2	10860	1737242	1	Standard
	Cr	53	108.219	ug/L	1.529	1	113	198841	0	Standard
>	Ge	72		ug/L			35776	29436	2	KED
	Ni	60	48.982	ug/L	1.875	3	145	69379	1	KED
	Ni	62	54.981	ug/L	2.524	4	28	12479	1	KED
	Cu	63	3042.849	ug/L	134.473	4	53	12033133	1	KED
	Cu	65	3048.235	ug/L	86.303	2	29	6189784	1	KED
	Zn	66	7993.790	ug/L	257.905	3	87	3888434	0	KED
	Zn	67	7334.042	ug/L	256.573	3	19	580633	0	KED
	As	75	1176.119	ug/L	32.073	2	2	277546	0	KED
	Y	89		ug/L			55660	297960	0	Standard
	Kr	83		ug/L			44	105	19	Standard
>	In-1	115		ug/L			7587	15976	1	KED
	Cd	111	10.853	ug/L	0.123	1	4	6294	0	KED
	Cd	114	10.994	ug/L	0.247	2	1	16388	2	KED
>	In	115		ug/L			519229	904235	1	Standard
	Ag	107	4.491	ug/L	0.132	2	33	133599	1	Standard
>	Tb	159		ug/L			190542	157324	0	Standard
	Pb	208	1280.635	ug/L	22.743	1	524	96414758	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	26877	3	Standard
>	Sc	45		ug/L			600447	611441	1	Standard
	Cr	52	111.436	ug/L	3.976	3	10860	1766516	2	Standard
	Cr	53	110.105	ug/L	4.573	4	113	203202	2	Standard
>	Ge	72		ug/L			35776	29152	0	KED
	Ni	60	48.618	ug/L	0.881	1	145	68250	2	KED
	Ni	62	51.789	ug/L	1.011	1	28	11653	2	KED
	Cu	63	2806.959	ug/L	37.381	1	53	11000916	0	KED
	Cu	65	2816.731	ug/L	71.420	2	29	5666231	1	KED
	Zn	66	8265.905	ug/L	136.269	1	87	3984176	1	KED
	Zn	67	7616.692	ug/L	44.699	0	19	597534	0	KED
	As	75	1296.431	ug/L	11.821	0	2	303108	0	KED
	Y	89		ug/L			55660	289686	0	Standard
	Kr	83		ug/L			44	106	18	Standard
>	In-1	115		ug/L			7587	16333	1	KED
	Cd	111	11.000	ug/L	0.211	1	4	6521	0	KED
	Cd	114	10.726	ug/L	0.114	1	1	16343	0	KED
>	In	115		ug/L			519229	951207	3	Standard
	Ag	107	4.378	ug/L	0.114	2	33	136944	1	Standard
>	Tb	159		ug/L			190542	157453	1	Standard
	Pb	208	1380.771	ug/L	20.785	1	524	104030860	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27119	1	Standard
⌈>	**Sc**	**45**		ug/L			600447	605688	1	Standard
|	**Cr**	**52**	**107.946**	ug/L	4.648	4	10860	1695312	3	Standard
⌊	**Cr**	**53**	**105.056**	ug/L	2.621	2	113	192093	1	Standard
⌈>	**Ge**	**72**		ug/L			35776	29173	1	KED
|	**Ni**	**60**	**48.441**	ug/L	1.072	2	145	68035	1	KED
|	**Ni**	**62**	**51.887**	ug/L	1.933	3	28	11679	2	KED
|	**Cu**	**63**	**2659.663**	ug/L	25.993	0	53	10431378	0	KED
|	**Cu**	**65**	**2674.653**	ug/L	89.805	3	29	5383864	2	KED
|	**Zn**	**66**	**7740.478**	ug/L	41.895	0	87	3733813	1	KED
|	**Zn**	**67**	**7109.067**	ug/L	112.602	1	19	558068	0	KED
⌊	**As**	**75**	**1097.144**	ug/L	7.742	0	2	256700	0	KED
	Y	**89**		ug/L			55660	287334	1	Standard
	Kr	**83**		ug/L			44	88	2	Standard
⌈>	**In-1**	**115**		ug/L			7587	15754	1	KED
|	**Cd**	**111**	**11.382**	ug/L	0.376	3	4	6507	1	KED
⌊	**Cd**	**114**	**11.428**	ug/L	0.447	3	1	16790	2	KED
⌈>	**In**	**115**		ug/L			519229	924163	2	Standard
⌊	**Ag**	**107**	**11.450**	ug/L	0.297	2	33	347999	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	158980	1	Standard
⌊	**Pb**	**208**	**1253.989**	ug/L	4.849	0	524	95406487	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:16:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	22829	2	Standard
⌈>	**Sc**	**45**		ug/L			600447	564251	0	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.034	113	10860	10641	4	Standard
⌊	**Cr**	**53**	**0.025**	ug/L	0.031	125	113	148	35	Standard
⌈>	**Ge**	**72**		ug/L			35776	31647	0	KED
|	**Ni**	**60**	**0.041**	ug/L	0.020	47	145	190	15	KED
|	**Ni**	**62**	**0.027**	ug/L	0.012	44	28	31	9	KED
|	**Cu**	**63**	**0.082**	ug/L	0.007	8	53	398	7	KED
|	**Cu**	**65**	**0.082**	ug/L	0.013	15	29	205	13	KED
|	**Zn**	**66**	**0.206**	ug/L	0.036	17	87	185	10	KED
|	**Zn**	**67**	**0.094**	ug/L	0.046	48	19	25	15	KED
⌊	**As**	**75**	**0.075**	ug/L	0.010	13	2	20	12	KED
	Y	**89**		ug/L			55660	54412	1	Standard
	Kr	**83**		ug/L			44	53	15	Standard
⌈>	**In-1**	**115**		ug/L			7587	6568	3	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	18	4	0	86	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	26	1	2	8	KED
⌈>	**In**	**115**		ug/L			519229	523168	3	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.008	104	33	168	86	Standard
⌈>	**Tb**	**159**		ug/L			190542	194825	1	Standard
⌊	**Pb**	**208**	**0.275**	ug/L	0.271	98	524	25917	95	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:21:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24653	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	591563	1	Standard
|	**Cr**	**52**	**49.379**	ug/L	0.755	1	10860	763476	1	Standard
⌊	**Cr**	**53**	**48.410**	ug/L	0.314	0	113	86533	1	Standard
⌈>	**Ge**	**72**		ug/L			35776	32024	1	KED
|	**Ni**	**60**	**49.999**	ug/L	0.359	0	145	77097	2	KED
|	**Ni**	**62**	**50.338**	ug/L	0.599	1	28	12440	0	KED
|	**Cu**	**63**	**50.853**	ug/L	0.479	0	53	218983	1	KED
|	**Cu**	**65**	**50.279**	ug/L	0.509	1	29	111154	1	KED
|	**Zn**	**66**	**50.970**	ug/L	0.590	1	87	27069	2	KED
|	**Zn**	**67**	**51.946**	ug/L	1.180	2	19	4493	1	KED
⌊	**As**	**75**	**50.153**	ug/L	1.115	2	2	12882	1	KED
	Y	**89**		ug/L			55660	54346	3	Standard
	Kr	**83**		ug/L			44	41	30	Standard
⌈>	**In-1**	**115**		ug/L			7587	6872	2	KED
|	**Cd**	**111**	**49.954**	ug/L	1.477	2	4	12444	0	KED
⌊	**Cd**	**114**	**50.060**	ug/L	0.658	1	1	32090	1	KED
⌈>	**In**	**115**		ug/L			519229	500870	0	Standard
⌊	**Ag**	**107**	**48.812**	ug/L	0.335	0	33	804173	0	Standard
⌈>	**Tb**	**159**		ug/L			190542	196347	1	Standard
⌊	**Pb**	**208**	**52.229**	ug/L	0.704	1	524	4907728	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:28:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24509	6	Standard
⌈>	**Sc**	**45**		ug/L			600447	583759	2	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	66	10860	10137	2	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.006	52	113	90	13	Standard
⌈>	**Ge**	**72**		ug/L			35776	33371	3	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.007	114	145	125	11	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.022	152	28	22	22	KED
|	**Cu**	**63**	**0.016**	ug/L	0.007	43	53	120	27	KED
|	**Cu**	**65**	**0.018**	ug/L	0.005	27	29	69	15	KED
|	**Zn**	**66**	**0.001**	ug/L	0.018	3110	87	81	10	KED
|	**Zn**	**67**	**-0.063**	ug/L	0.009	14	19	12	8	KED
⌊	**As**	**75**	**0.023**	ug/L	0.007	31	2	8	20	KED
	Y	**89**		ug/L			55660	54110	1	Standard
	Kr	**83**		ug/L			44	46	13	Standard
⌈>	**In-1**	**115**		ug/L			7587	6862	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	201	4	3	34	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	180	1	2	81	KED
⌈>	**In**	**115**		ug/L			519229	515794	3	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	26	33	82	17	Standard
⌈>	**Tb**	**159**		ug/L			190542	195697	2	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	1	524	1220	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:33:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41800	4	Standard
⌈>	Sc	45		ug/L			600447	694893	1	Standard
|	Cr	52	14.760	ug/L	0.330	2	10860	276862	1	Standard
⌊	Cr	53	14.749	ug/L	0.355	2	113	31060	2	Standard
⌈>	Ge	72		ug/L			35776	33387	1	KED
|	Ni	60	12.096	ug/L	0.354	2	145	19540	1	KED
|	Ni	62	12.236	ug/L	0.141	1	28	3173	2	KED
|	Cu	63	34.440	ug/L	0.616	1	53	154616	0	KED
|	Cu	65	33.554	ug/L	0.420	1	29	77335	1	KED
|	Zn	66	61.897	ug/L	0.534	0	87	34249	1	KED
|	Zn	67	60.911	ug/L	2.396	3	19	5489	2	KED
⌊	As	75	7.068	ug/L	0.157	2	2	1894	2	KED
	Y	89		ug/L			55660	279345	1	Standard
	Kr	83		ug/L			44	90	13	Standard
⌈>	In-1	115		ug/L			7587	6934	2	KED
|	Cd	111	0.195	ug/L	0.047	24	4	52	21	KED
⌊	Cd	114	0.219	ug/L	0.014	6	1	143	8	KED
⌈>	In	115		ug/L			519229	517494	0	Standard
⌊	Ag	107	0.165	ug/L	0.003	1	33	2844	1	Standard
⌈>	Tb	159		ug/L			190542	224144	0	Standard
⌊	Pb	208	14.987	ug/L	0.095	0	524	1608279	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:37:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41920	5	Standard
⌈>	Sc	45		ug/L			600447	707279	1	Standard
|	Cr	52	13.606	ug/L	0.173	1	10860	260824	2	Standard
⌊	Cr	53	13.450	ug/L	0.128	0	113	28839	1	Standard
⌈>	Ge	72		ug/L			35776	33813	2	KED
|	Ni	60	12.474	ug/L	0.318	2	145	20402	0	KED
|	Ni	62	12.568	ug/L	0.337	2	28	3298	0	KED
|	Cu	63	27.102	ug/L	0.625	2	53	123211	0	KED
|	Cu	65	26.633	ug/L	0.700	2	29	62154	0	KED
|	Zn	66	53.856	ug/L	2.290	4	87	30171	1	KED
|	Zn	67	53.534	ug/L	0.966	1	19	4890	3	KED
⌊	As	75	6.504	ug/L	0.322	4	2	1764	2	KED
	Y	89		ug/L			55660	279415	2	Standard
	Kr	83		ug/L			44	85	14	Standard
⌈>	In-1	115		ug/L			7587	7109	2	KED
|	Cd	111	0.169	ug/L	0.030	17	4	47	16	KED
⌊	Cd	114	0.154	ug/L	0.036	23	1	103	20	KED
⌈>	In	115		ug/L			519229	506285	1	Standard
⌊	Ag	107	0.112	ug/L	0.003	2	33	1899	2	Standard
⌈>	Tb	159		ug/L			190542	221252	0	Standard
⌊	Pb	208	10.941	ug/L	0.016	0	524	1159070	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:41:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41624	4	Standard
⌈>	Sc	45		ug/L			600447	641883	18	Standard
|	Cr	52	16.175	ug/L	2.585	15	10860	274088	4	Standard
⌊	Cr	53	16.107	ug/L	2.732	16	113	30688	3	Standard
⌈>	Ge	72		ug/L			35776	33460	0	KED
|	Ni	60	13.007	ug/L	0.126	0	145	21054	1	KED
|	Ni	62	12.937	ug/L	0.251	1	28	3360	1	KED
|	Cu	63	34.231	ug/L	0.569	1	53	154049	2	KED
|	Cu	65	33.408	ug/L	0.682	2	29	77167	1	KED
|	Zn	66	66.941	ug/L	2.382	3	87	37107	2	KED
|	Zn	67	64.779	ug/L	1.290	1	19	5850	1	KED
⌊	As	75	7.501	ug/L	0.124	1	2	2015	1	KED
	Y	89		ug/L			55660	272445	5	Standard
	Kr	83		ug/L			44	93	25	Standard
⌈>	In-1	115		ug/L			7587	7083	2	KED
|	Cd	111	0.206	ug/L	0.024	11	4	56	9	KED
⌊	Cd	114	0.231	ug/L	0.024	10	1	153	9	KED
⌈>	In	115		ug/L			519229	441955	19	Standard
⌊	Ag	107	0.171	ug/L	0.035	20	33	2452	1	Standard
⌈>	Tb	159		ug/L			190542	205536	15	Standard
⌊	Pb	208	15.984	ug/L	2.361	14	524	1548517	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:46:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41611	5	Standard
⌈>	Sc	45		ug/L			600447	699791	2	Standard
|	Cr	52	14.261	ug/L	0.110	0	10860	269809	2	Standard
⌊	Cr	53	14.245	ug/L	0.285	2	113	30206	1	Standard
⌈>	Ge	72		ug/L			35776	33878	0	KED
|	Ni	60	12.340	ug/L	0.198	1	145	20233	1	KED
|	Ni	62	11.929	ug/L	0.375	3	28	3139	2	KED
|	Cu	63	32.200	ug/L	0.998	3	53	146699	2	KED
|	Cu	65	31.622	ug/L	0.386	1	29	73963	1	KED
|	Zn	66	61.960	ug/L	0.332	0	87	34789	0	KED
|	Zn	67	62.225	ug/L	1.387	2	19	5691	1	KED
⌊	As	75	7.169	ug/L	0.232	3	2	1949	2	KED
	Y	89		ug/L			55660	273102	1	Standard
	Kr	83		ug/L			44	73	25	Standard
⌈>	In-1	115		ug/L			7587	6963	1	KED
|	Cd	111	0.182	ug/L	0.016	8	4	49	9	KED
⌊	Cd	114	0.260	ug/L	0.013	4	1	170	3	KED
⌈>	In	115		ug/L			519229	502263	0	Standard
⌊	Ag	107	0.134	ug/L	0.006	4	33	2247	4	Standard
⌈>	Tb	159		ug/L			190542	223559	0	Standard
⌊	Pb	208	13.661	ug/L	0.263	1	524	1462194	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:50:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40115	3	Standard
⌈>	Sc	45		ug/L			600447	696541	1	Standard
|	Cr	52	13.972	ug/L	0.171	1	10860	263366	0	Standard
⌊	Cr	53	14.084	ug/L	0.546	3	113	29722	2	Standard
⌈>	Ge	72		ug/L			35776	34063	0	KED
|	Ni	60	12.153	ug/L	0.004	0	145	20035	0	KED
|	Ni	62	12.203	ug/L	0.252	2	28	3228	2	KED
|	Cu	63	30.621	ug/L	0.182	0	53	140286	1	KED
|	Cu	65	30.888	ug/L	0.529	1	29	72636	1	KED
|	Zn	66	61.152	ug/L	1.552	2	87	34527	3	KED
|	Zn	67	60.193	ug/L	0.541	0	19	5536	0	KED
⌊	As	75	6.442	ug/L	0.173	2	2	1761	2	KED
	Y	89		ug/L			55660	267558	1	Standard
	Kr	83		ug/L			44	67	5	Standard
⌈>	In-1	115		ug/L			7587	7095	0	KED
|	Cd	111	0.200	ug/L	0.033	16	4	55	15	KED
⌊	Cd	114	0.229	ug/L	0.041	17	1	153	18	KED
⌈>	In	115		ug/L			519229	499273	1	Standard
⌊	Ag	107	0.139	ug/L	0.012	8	33	2310	7	Standard
⌈>	Tb	159		ug/L			190542	219835	0	Standard
⌊	Pb	208	14.358	ug/L	0.249	1	524	1511199	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:55:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40341	3	Standard
⌈>	Sc	45		ug/L			600447	679727	1	Standard
|	Cr	52	13.576	ug/L	0.280	2	10860	250134	2	Standard
⌊	Cr	53	13.642	ug/L	0.301	2	113	28109	1	Standard
⌈>	Ge	72		ug/L			35776	33903	1	KED
|	Ni	60	11.924	ug/L	0.282	2	145	19565	1	KED
|	Ni	62	11.936	ug/L	0.534	4	28	3142	3	KED
|	Cu	63	27.743	ug/L	0.140	0	53	126506	1	KED
|	Cu	65	27.736	ug/L	0.201	0	29	64920	1	KED
|	Zn	66	58.405	ug/L	1.496	2	87	32817	2	KED
|	Zn	67	57.184	ug/L	1.965	3	19	5233	1	KED
⌊	As	75	5.879	ug/L	0.200	3	2	1600	2	KED
	Y	89		ug/L			55660	253187	1	Standard
	Kr	83		ug/L			44	62	15	Standard
⌈>	In-1	115		ug/L			7587	7134	2	KED
|	Cd	111	0.173	ug/L	0.033	19	4	48	16	KED
⌊	Cd	114	0.200	ug/L	0.032	15	1	134	17	KED
⌈>	In	115		ug/L			519229	507129	2	Standard
⌊	Ag	107	0.133	ug/L	0.005	4	33	2255	2	Standard
⌈>	Tb	159		ug/L			190542	221170	1	Standard
⌊	Pb	208	19.884	ug/L	0.450	2	524	2104767	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0109-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:59:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41351	4	Standard
⌈>	Sc	45		ug/L			600447	689065	1	Standard
|	Cr	52	13.277	ug/L	0.115	0	10860	248242	1	Standard
⌊	Cr	53	13.127	ug/L	0.146	1	113	27430	2	Standard
⌈>	Ge	72		ug/L			35776	33601	1	KED
|	Ni	60	10.961	ug/L	0.105	0	145	17839	1	KED
|	Ni	62	10.953	ug/L	0.166	1	28	2861	0	KED
|	Cu	63	37.403	ug/L	0.776	2	53	169002	1	KED
|	Cu	65	37.230	ug/L	1.137	3	29	86342	1	KED
|	Zn	66	54.195	ug/L	0.498	0	87	30188	0	KED
|	Zn	67	51.947	ug/L	1.758	3	19	4714	2	KED
⌊	As	75	8.383	ug/L	0.093	1	2	2260	0	KED
	Y	89		ug/L			55660	253081	2	Standard
	Kr	83		ug/L			44	70	4	Standard
⌈>	In-1	115		ug/L			7587	7085	2	KED
|	Cd	111	0.178	ug/L	0.018	10	4	49	8	KED
⌊	Cd	114	0.173	ug/L	0.014	7	1	116	9	KED
⌈>	In	115		ug/L			519229	506436	3	Standard
⌊	Ag	107	0.140	ug/L	0.009	6	33	2360	2	Standard
⌈>	Tb	159		ug/L			190542	218914	0	Standard
⌊	Pb	208	13.032	ug/L	0.026	0	524	1365955	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0109-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:03:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44730	2	Standard
⌈>	Sc	45		ug/L			600447	695996	0	Standard
|	Cr	52	13.163	ug/L	0.197	1	10860	248690	1	Standard
⌊	Cr	53	12.957	ug/L	0.368	2	113	27345	2	Standard
⌈>	Ge	72		ug/L			35776	33265	1	KED
|	Ni	60	11.039	ug/L	0.401	3	145	17780	2	KED
|	Ni	62	11.096	ug/L	0.292	2	28	2868	1	KED
|	Cu	63	33.534	ug/L	0.794	2	53	150033	2	KED
|	Cu	65	33.030	ug/L	0.499	1	29	75849	0	KED
|	Zn	66	55.322	ug/L	0.971	1	87	30504	0	KED
|	Zn	67	55.166	ug/L	1.585	2	19	4957	3	KED
⌊	As	75	8.674	ug/L	0.314	3	2	2315	2	KED
	Y	89		ug/L			55660	251821	1	Standard
	Kr	83		ug/L			44	67	20	Standard
⌈>	In-1	115		ug/L			7587	6853	1	KED
|	Cd	111	0.200	ug/L	0.020	10	4	53	7	KED
⌊	Cd	114	0.185	ug/L	0.031	16	1	119	14	KED
⌈>	In	115		ug/L			519229	504230	4	Standard
⌊	Ag	107	0.143	ug/L	0.009	6	33	2395	1	Standard
⌈>	Tb	159		ug/L			190542	215455	1	Standard
⌊	Pb	208	13.720	ug/L	0.338	2	524	1415046	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	43300	5	Standard
>	Sc	45		ug/L			600447	713310	1	Standard
	Cr	52	16.422	ug/L	0.161	0	10860	314787	1	Standard
	Cr	53	16.361	ug/L	0.435	2	113	35354	3	Standard
>	Ge	72		ug/L			35776	32638	0	KED
	Ni	60	15.409	ug/L	0.351	2	145	24305	2	KED
	Ni	62	15.069	ug/L	0.298	1	28	3813	1	KED
	Cu	63	38.928	ug/L	0.502	1	53	170861	0	KED
	Cu	65	39.033	ug/L	0.216	0	29	87953	1	KED
	Zn	66	75.753	ug/L	0.903	1	87	40958	1	KED
	Zn	67	73.795	ug/L	1.061	1	19	6499	1	KED
	As	75	8.223	ug/L	0.084	1	2	2154	0	KED
	Y	89		ug/L			55660	331620	1	Standard
	Kr	83		ug/L			44	85	5	Standard
>	In-1	115		ug/L			7587	7151	0	KED
	Cd	111	0.175	ug/L	0.028	15	4	49	14	KED
	Cd	114	0.189	ug/L	0.041	21	1	127	20	KED
>	In	115		ug/L			519229	494671	2	Standard
	Ag	107	0.155	ug/L	0.005	3	33	2553	5	Standard
>	Tb	159		ug/L			190542	226865	1	Standard
	Pb	208	15.700	ug/L	0.343	2	524	1704869	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:12:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	26146	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	573930	1	Standard
|	**Cr**	**52**	**-0.020**	ug/L	0.012	58	10860	10084	3	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.008	84	113	92	15	Standard
⌈>	**Ge**	**72**		ug/L			35776	32582	1	KED
|	**Ni**	**60**	**0.015**	ug/L	0.010	68	145	155	11	KED
|	**Ni**	**62**	**0.005**	ug/L	0.030	607	28	27	28	KED
|	**Cu**	**63**	**0.014**	ug/L	0.002	14	53	111	6	KED
|	**Cu**	**65**	**0.010**	ug/L	0.005	55	29	48	25	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.021	69	87	63	16	KED
|	**Zn**	**67**	**-0.067**	ug/L	0.011	16	19	12	9	KED
⌊	**As**	**75**	**0.003**	ug/L	0.005	152	2	2	44	KED
	Y	**89**		ug/L			55660	54155	0	Standard
	Kr	**83**		ug/L			44	38	2	Standard
⌈>	**In-1**	**115**		ug/L			7587	6900	0	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	17	4	0	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	101	1	0	207	KED
⌈>	**In**	**115**		ug/L			519229	511559	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	5	33	10	10	Standard
⌈>	**Tb**	**159**		ug/L			190542	194216	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	31	524	634	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:16:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	25538	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	594963	3	Standard
|	**Cr**	**52**	**50.178**	ug/L	0.793	1	10860	779879	1	Standard
⌊	**Cr**	**53**	**49.353**	ug/L	1.384	2	113	88670	0	Standard
⌈>	**Ge**	**72**		ug/L			35776	34074	1	KED
|	**Ni**	**60**	**48.680**	ug/L	0.968	1	145	79858	2	KED
|	**Ni**	**62**	**47.611**	ug/L	0.229	0	28	12521	1	KED
|	**Cu**	**63**	**49.180**	ug/L	0.308	0	53	225338	1	KED
|	**Cu**	**65**	**48.634**	ug/L	0.916	1	29	114372	0	KED
|	**Zn**	**66**	**48.427**	ug/L	0.650	1	87	27362	1	KED
|	**Zn**	**67**	**50.458**	ug/L	2.031	4	19	4643	2	KED
⌊	**As**	**75**	**49.054**	ug/L	1.109	2	2	13404	0	KED
	Y	**89**		ug/L			55660	54653	1	Standard
	Kr	**83**		ug/L			44	55	9	Standard
⌈>	**In-1**	**115**		ug/L			7587	7138	3	KED
|	**Cd**	**111**	**49.973**	ug/L	2.395	4	4	12921	0	KED
⌊	**Cd**	**114**	**49.890**	ug/L	1.571	3	1	33197	1	KED
⌈>	**In**	**115**		ug/L			519229	506488	1	Standard
⌊	**Ag**	**107**	**48.935**	ug/L	1.204	2	33	815045	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	196385	0	Standard
⌊	**Pb**	**208**	**51.586**	ug/L	0.606	1	524	4848875	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:24:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	25562	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	584484	0	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.013	38	10860	10071	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.004	52	113	96	8	Standard
⌈>	**Ge**	**72**		ug/L			35776	33932	0	KED
|	**Ni**	**60**	**-0.017**	ug/L	0.007	39	145	109	9	KED
|	**Ni**	**62**	**-0.031**	ug/L	0.030	96	28	19	40	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	48	53	64	10	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	56	29	38	15	KED
|	**Zn**	**66**	**-0.058**	ug/L	0.002	3	87	50	2	KED
|	**Zn**	**67**	**-0.135**	ug/L	0.031	23	19	6	45	KED
⌊	**As**	**75**	**0.007**	ug/L	0.004	63	2	3	30	KED
	Y	**89**		ug/L			55660	54405	2	Standard
	Kr	**83**		ug/L			44	37	28	Standard
⌈>	**In-1**	**115**		ug/L			7587	7340	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	81	4	1	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	175	1	2	47	KED
⌈>	**In**	**115**		ug/L			519229	506728	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	46	33	59	22	Standard
⌈>	**Tb**	**159**		ug/L			190542	195679	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	5	524	691	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:28:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42152	3	Standard
⌈>	Sc	45		ug/L			600447	701617	2	Standard
|	Cr	52	13.784	ug/L	0.159	1	10860	261945	2	Standard
⌊	Cr	53	13.824	ug/L	0.149	1	113	29404	2	Standard
⌈>	Ge	72		ug/L			35776	33631	1	KED
|	Ni	60	11.683	ug/L	0.169	1	145	19022	2	KED
|	Ni	62	11.656	ug/L	0.112	0	28	3046	0	KED
|	Cu	63	32.720	ug/L	0.427	1	53	147993	1	KED
|	Cu	65	32.727	ug/L	0.710	2	29	75985	2	KED
|	Zn	66	58.096	ug/L	1.862	3	87	32377	1	KED
|	Zn	67	57.353	ug/L	1.009	1	19	5208	1	KED
⌊	As	75	8.068	ug/L	0.212	2	2	2178	2	KED
	Y	89		ug/L			55660	268399	1	Standard
	Kr	83		ug/L			44	84	7	Standard
⌈>	In-1	115		ug/L			7587	7254	0	KED
|	Cd	111	0.183	ug/L	0.012	6	4	52	5	KED
⌊	Cd	114	0.196	ug/L	0.027	13	1	134	13	KED
⌈>	In	115		ug/L			519229	505482	0	Standard
⌊	Ag	107	0.143	ug/L	0.008	5	33	2409	6	Standard
⌈>	Tb	159		ug/L			190542	222718	0	Standard
⌊	Pb	208	13.876	ug/L	0.125	0	524	1479618	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:32:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40027	8	Standard
>	Sc	45		ug/L			600447	698775	1	Standard
	Cr	52	14.213	ug/L	0.080	0	10860	268577	1	Standard
	Cr	53	14.164	ug/L	0.155	1	113	30003	2	Standard
>	Ge	72		ug/L			35776	33832	0	KED
	Ni	60	11.465	ug/L	0.137	1	145	18781	0	KED
	Ni	62	11.563	ug/L	0.199	1	28	3040	2	KED
	Cu	63	33.675	ug/L	0.564	1	53	153215	1	KED
	Cu	65	32.656	ug/L	0.151	0	29	76276	0	KED
	Zn	66	57.957	ug/L	1.470	2	87	32501	2	KED
	Zn	67	55.816	ug/L	1.269	2	19	5099	1	KED
	As	75	8.291	ug/L	0.137	1	2	2251	1	KED
	Y	89		ug/L			55660	265350	3	Standard
	Kr	83		ug/L			44	74	5	Standard
>	In-1	115		ug/L			7587	7022	2	KED
	Cd	111	0.241	ug/L	0.056	23	4	65	23	KED
	Cd	114	0.248	ug/L	0.041	16	1	163	15	KED
>	In	115		ug/L			519229	507693	0	Standard
	Ag	107	0.154	ug/L	0.006	3	33	2596	4	Standard
>	Tb	159		ug/L			190542	218126	0	Standard
	Pb	208	14.843	ug/L	0.185	1	524	1550062	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:37:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	38717	0	Standard
>	Sc	45		ug/L			600447	703681	1	Standard
	Cr	52	13.446	ug/L	0.155	1	10860	256553	0	Standard
	Cr	53	13.362	ug/L	0.125	0	113	28507	1	Standard
>	Ge	72		ug/L			35776	33183	1	KED
	Ni	60	12.093	ug/L	0.381	3	145	19417	2	KED
	Ni	62	12.156	ug/L	0.093	0	28	3133	2	KED
	Cu	63	28.972	ug/L	0.594	2	53	129274	0	KED
	Cu	65	28.921	ug/L	0.252	0	29	66254	0	KED
	Zn	66	56.544	ug/L	1.297	2	87	31099	1	KED
	Zn	67	56.684	ug/L	1.162	2	19	5079	1	KED
	As	75	6.999	ug/L	0.103	1	2	1864	1	KED
	Y	89		ug/L			55660	267168	0	Standard
	Kr	83		ug/L			44	76	8	Standard
>	In-1	115		ug/L			7587	6892	3	KED
	Cd	111	0.172	ug/L	0.019	11	4	46	9	KED
	Cd	114	0.224	ug/L	0.026	11	1	145	14	KED
>	In	115		ug/L			519229	502886	1	Standard
	Ag	107	0.124	ug/L	0.000	0	33	2079	1	Standard
>	Tb	159		ug/L			190542	220269	0	Standard
	Pb	208	11.496	ug/L	0.252	2	524	1212380	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:41:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36163	3	Standard
⌈>	Sc	45		ug/L			600447	675390	2	Standard
|	Cr	52	11.612	ug/L	0.348	2	10860	214261	1	Standard
⌊	Cr	53	11.687	ug/L	0.277	2	113	23940	1	Standard
⌈>	Ge	72		ug/L			35776	33264	0	KED
|	Ni	60	9.904	ug/L	0.159	1	145	15969	1	KED
|	Ni	62	9.757	ug/L	0.454	4	28	2526	4	KED
|	Cu	63	26.785	ug/L	0.607	2	53	119830	1	KED
|	Cu	65	26.312	ug/L	0.547	2	29	60427	1	KED
|	Zn	66	52.519	ug/L	0.742	1	87	28964	0	KED
|	Zn	67	51.518	ug/L	2.705	5	19	4630	5	KED
⌊	As	75	6.060	ug/L	0.120	1	2	1618	1	KED
	Y	89		ug/L			55660	234210	0	Standard
	Kr	83		ug/L			44	67	25	Standard
⌈>	In-1	115		ug/L			7587	7065	1	KED
|	Cd	111	0.155	ug/L	0.017	10	4	43	10	KED
⌊	Cd	114	0.153	ug/L	0.016	10	1	102	11	KED
⌈>	In	115		ug/L			519229	505119	2	Standard
⌊	Ag	107	0.108	ug/L	0.003	3	33	1821	3	Standard
⌈>	Tb	159		ug/L			190542	217502	2	Standard
⌊	Pb	208	10.645	ug/L	0.144	1	524	1108469	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0008-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:46:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36904	6	Standard
⌈>	Sc	45		ug/L			600447	658482	8	Standard
|	Cr	52	13.364	ug/L	1.275	9	10860	237528	1	Standard
⌊	Cr	53	13.224	ug/L	1.165	8	113	26285	3	Standard
⌈>	Ge	72		ug/L			35776	33385	1	KED
|	Ni	60	11.756	ug/L	0.301	2	145	18995	0	KED
|	Ni	62	11.718	ug/L	0.482	4	28	3038	2	KED
|	Cu	63	26.959	ug/L	0.285	1	53	121042	0	KED
|	Cu	65	26.749	ug/L	0.537	2	29	61646	0	KED
|	Zn	66	95.776	ug/L	0.264	0	87	52948	1	KED
|	Zn	67	93.257	ug/L	3.356	3	19	8393	2	KED
⌊	As	75	5.155	ug/L	0.087	1	2	1382	0	KED
	Y	89		ug/L			55660	267607	3	Standard
	Kr	83		ug/L			44	82	18	Standard
⌈>	In-1	115		ug/L			7587	7025	1	KED
|	Cd	111	0.159	ug/L	0.028	17	4	44	17	KED
⌊	Cd	114	0.164	ug/L	0.003	1	1	109	1	KED
⌈>	In	115		ug/L			519229	476583	10	Standard
⌊	Ag	107	0.109	ug/L	0.012	10	33	1730	1	Standard
⌈>	Tb	159		ug/L			190542	212482	8	Standard
⌊	Pb	208	11.065	ug/L	1.013	9	524	1119922	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0008-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:50:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	35181	3	Standard
⌈>	Sc	45		ug/L			600447	694840	0	Standard
|	Cr	52	12.759	ug/L	0.166	1	10860	241055	1	Standard
⌊	Cr	53	12.803	ug/L	0.260	2	113	26979	2	Standard
⌈>	Ge	72		ug/L			35776	32911	1	KED
|	Ni	60	11.463	ug/L	0.048	0	145	18267	0	KED
|	Ni	62	11.716	ug/L	0.618	5	28	2995	5	KED
|	Cu	63	30.419	ug/L	0.228	0	53	134653	1	KED
|	Cu	65	30.125	ug/L	0.324	1	29	68448	1	KED
|	Zn	66	63.456	ug/L	1.666	2	87	34603	1	KED
|	Zn	67	61.360	ug/L	1.215	1	19	5452	2	KED
⌊	As	75	6.807	ug/L	0.171	2	2	1798	1	KED
	Y	89		ug/L			55660	270124	3	Standard
	Kr	83		ug/L			44	94	9	Standard
⌈>	In-1	115		ug/L			7587	7021	2	KED
|	Cd	111	0.179	ug/L	0.037	20	4	49	17	KED
⌊	Cd	114	0.173	ug/L	0.024	14	1	114	16	KED
⌈>	In	115		ug/L			519229	499685	2	Standard
⌊	Ag	107	0.116	ug/L	0.008	6	33	1932	4	Standard
⌈>	Tb	159		ug/L			190542	221804	0	Standard
⌊	Pb	208	11.749	ug/L	0.083	0	524	1247680	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:54:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37636	5	Standard
>	Sc	45		ug/L			600447	685486	0	Standard
	Cr	52	16.521	ug/L	0.526	3	10860	304236	2	Standard
	Cr	53	16.594	ug/L	0.435	2	113	34456	2	Standard
>	Ge	72		ug/L			35776	32742	0	KED
	Ni	60	12.901	ug/L	0.250	1	145	20434	1	KED
	Ni	62	12.820	ug/L	0.316	2	28	3258	1	KED
	Cu	63	32.180	ug/L	0.702	2	53	141691	1	KED
	Cu	65	32.801	ug/L	0.389	1	29	74144	0	KED
	Zn	66	71.544	ug/L	1.069	1	87	38808	0	KED
	Zn	67	69.189	ug/L	1.002	1	19	6114	2	KED
	As	75	7.614	ug/L	0.071	0	2	2001	1	KED
	Y	89		ug/L			55660	259985	1	Standard
	Kr	83		ug/L			44	85	9	Standard
>	In-1	115		ug/L			7587	7023	1	KED
	Cd	111	0.137	ug/L	0.009	6	4	38	7	KED
	Cd	114	0.144	ug/L	0.012	8	1	95	6	KED
>	In	115		ug/L			519229	496722	1	Standard
	Ag	107	0.113	ug/L	0.004	3	33	1883	2	Standard
>	Tb	159		ug/L			190542	218818	0	Standard
	Pb	208	17.415	ug/L	0.324	1	524	1824272	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:59:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37582	3	Standard
⌈>	Sc	45		ug/L			600447	669281	2	Standard
|	Cr	52	22.029	ug/L	0.384	1	10860	392004	2	Standard
⌊	Cr	53	21.690	ug/L	0.339	1	113	43926	1	Standard
⌈>	Ge	72		ug/L			35776	32667	2	KED
|	Ni	60	18.945	ug/L	0.600	3	145	29864	0	KED
|	Ni	62	18.494	ug/L	0.363	1	28	4678	1	KED
|	Cu	63	103.407	ug/L	2.883	2	53	454006	0	KED
|	Cu	65	102.730	ug/L	1.556	1	29	231623	2	KED
|	Zn	66	178.533	ug/L	4.616	2	87	96485	2	KED
|	Zn	67	170.011	ug/L	2.949	1	19	14964	3	KED
⌊	As	75	16.375	ug/L	0.240	1	2	4291	1	KED
	Y	89		ug/L			55660	241132	1	Standard
	Kr	83		ug/L			44	73	26	Standard
⌈>	In-1	115		ug/L			7587	6780	0	KED
|	Cd	111	0.418	ug/L	0.049	11	4	106	10	KED
⌊	Cd	114	0.454	ug/L	0.060	13	1	288	12	KED
⌈>	In	115		ug/L			519229	502468	3	Standard
⌊	Ag	107	0.118	ug/L	0.002	1	33	1979	1	Standard
⌈>	Tb	159		ug/L			190542	213368	0	Standard
⌊	Pb	208	48.910	ug/L	0.730	1	524	4994590	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:03:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	42891	2	Standard
⌈>	**Sc**	**45**		ug/L			600447	690386	1	Standard
|	**Cr**	**52**	**15.879**	ug/L	0.081	0	10860	295013	1	Standard
⌊	**Cr**	**53**	**15.797**	ug/L	0.231	1	113	33044	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	32570	1	KED
|	**Ni**	**60**	**15.329**	ug/L	0.559	3	145	24120	2	KED
|	**Ni**	**62**	**15.503**	ug/L	0.390	2	28	3914	1	KED
|	**Cu**	**63**	**35.760**	ug/L	0.959	2	53	156594	1	KED
|	**Cu**	**65**	**34.988**	ug/L	0.447	1	29	78674	2	KED
|	**Zn**	**66**	**81.273**	ug/L	1.022	1	87	43842	1	KED
|	**Zn**	**67**	**78.630**	ug/L	2.118	2	19	6908	1	KED
⌊	**As**	**75**	**6.077**	ug/L	0.117	1	2	1589	0	KED
	Y	**89**		ug/L			55660	293531	0	Standard
	Kr	**83**		ug/L			44	81	11	Standard
⌈>	**In-1**	**115**		ug/L			7587	6877	0	KED
|	**Cd**	**111**	**0.163**	ug/L	0.024	14	4	44	14	KED
⌊	**Cd**	**114**	**0.184**	ug/L	0.033	18	1	119	17	KED
⌈>	**In**	**115**		ug/L			519229	497287	2	Standard
⌊	**Ag**	**107**	**0.123**	ug/L	0.006	4	33	2042	6	Standard
⌈>	**Tb**	**159**		ug/L			190542	220337	0	Standard
⌊	**Pb**	**208**	**18.272**	ug/L	0.349	1	524	1927197	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:08:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24843	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	570538	2	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.013	43	10860	9866	1	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.015	128	113	86	27	Standard
⌈>	**Ge**	**72**		ug/L			35776	32250	0	KED
|	**Ni**	**60**	**0.020**	ug/L	0.011	56	145	161	10	KED
|	**Ni**	**62**	**0.016**	ug/L	0.016	99	28	29	13	KED
|	**Cu**	**63**	**0.008**	ug/L	0.002	30	53	81	12	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	103	29	34	24	KED
|	**Zn**	**66**	**-0.028**	ug/L	0.030	106	87	64	25	KED
|	**Zn**	**67**	**-0.109**	ug/L	0.034	30	19	8	35	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	122	2	2	20	KED
	Y	**89**		ug/L			55660	53022	1	Standard
	Kr	**83**		ug/L			44	46	24	Standard
⌈>	**In-1**	**115**		ug/L			7587	6858	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.009	88	4	1	173	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	915	1	1	106	KED
⌈>	**In**	**115**		ug/L			519229	507926	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	23	33	12	37	Standard
⌈>	**Tb**	**159**		ug/L			190542	192482	2	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.004	126	524	860	50	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:12:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24688	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	587821	1	Standard
|	**Cr**	**52**	**50.267**	ug/L	0.836	1	10860	772260	3	Standard
⌊	**Cr**	**53**	**49.039**	ug/L	1.119	2	113	87116	3	Standard
⌈>	**Ge**	**72**		ug/L			35776	33250	0	KED
|	**Ni**	**60**	**48.819**	ug/L	0.971	1	145	78156	1	KED
|	**Ni**	**62**	**48.209**	ug/L	1.520	3	28	12372	2	KED
|	**Cu**	**63**	**49.620**	ug/L	0.752	1	53	221871	1	KED
|	**Cu**	**65**	**48.668**	ug/L	0.371	0	29	111709	0	KED
|	**Zn**	**66**	**50.023**	ug/L	1.122	2	87	27580	1	KED
|	**Zn**	**67**	**49.741**	ug/L	2.604	5	19	4468	4	KED
⌊	**As**	**75**	**49.558**	ug/L	0.239	0	2	13218	0	KED
	Y	**89**		ug/L			55660	53986	1	Standard
	Kr	**83**		ug/L			44	40	28	Standard
⌈>	**In-1**	**115**		ug/L			7587	7116	3	KED
|	**Cd**	**111**	**48.527**	ug/L	2.801	5	4	12510	3	KED
⌊	**Cd**	**114**	**48.916**	ug/L	3.450	7	1	32427	4	KED
⌈>	**In**	**115**		ug/L			519229	497812	2	Standard
⌊	**Ag**	**107**	**48.787**	ug/L	0.812	1	33	798652	0	Standard
⌈>	**Tb**	**159**		ug/L			190542	199063	0	Standard
⌊	**Pb**	**208**	**51.680**	ug/L	0.781	1	524	4923450	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:19:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24490	0	Standard
⌈>	**Sc**	**45**		ug/L			600447	572095	1	Standard
|	**Cr**	**52**	**-0.016**	ug/L	0.007	47	10860	10114	2	Standard
⌊	**Cr**	**53**	**-0.010**	ug/L	0.005	52	113	90	10	Standard
⌈>	**Ge**	**72**		ug/L			35776	33107	1	KED
|	**Ni**	**60**	**-0.019**	ug/L	0.017	93	145	104	25	KED
|	**Ni**	**62**	**-0.036**	ug/L	0.021	57	28	17	29	KED
|	**Cu**	**63**	**0.007**	ug/L	0.003	36	53	81	14	KED
|	**Cu**	**65**	**0.011**	ug/L	0.011	102	29	50	46	KED
|	**Zn**	**66**	**-0.055**	ug/L	0.037	66	87	50	38	KED
|	**Zn**	**67**	**-0.111**	ug/L	0.077	68	19	8	81	KED
⌊	**As**	**75**	**0.006**	ug/L	0.002	30	2	3	15	KED
	Y	**89**		ug/L			55660	53252	4	Standard
	Kr	**83**		ug/L			44	46	16	Standard
⌈>	**In-1**	**115**		ug/L			7587	7049	3	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.007	58	4	0	173	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	226	1	1	94	KED
⌈>	**In**	**115**		ug/L			519229	500651	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	50	33	55	22	Standard
⌈>	**Tb**	**159**		ug/L			190542	194761	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	22	524	665	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:24:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23951	1	Standard
⌈>	**Sc**	**45**		ug/L				579638	2	Standard
|	**Cr**	**52**		ug/L				10138	1	Standard
⌊	**Cr**	**53**		ug/L				92	13	Standard
⌈>	**Ge**	**72**		ug/L				33052	2	KED
|	**Ni**	**60**		ug/L				97	25	KED
|	**Ni**	**62**		ug/L				15	49	KED
|	**Cu**	**63**		ug/L				198	57	KED
|	**Cu**	**65**		ug/L				107	77	KED
|	**Zn**	**66**		ug/L				67	36	KED
|	**Zn**	**67**		ug/L				15	13	KED
⌊	**As**	**75**		ug/L				4	114	KED
	Y	**89**		ug/L				53627	1	Standard
	Kr	**83**		ug/L				34	20	Standard
⌈>	**In-1**	**115**		ug/L				7114	5	KED
|	**Cd**	**111**		ug/L				2	24	KED
⌊	**Cd**	**114**		ug/L				0	293	KED
⌈>	**In**	**115**		ug/L				522018	2	Standard
⌊	**Ag**	**107**		ug/L				24	23	Standard
⌈>	**Tb**	**159**		ug/L				194588	1	Standard
⌊	**Pb**	**208**		ug/L				589	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:28:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	24643	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	604497	1	Standard
|	**Cr**	**52**	**48.978**	ug/L	0.531	1	10138	773644	2	Standard
⌊	**Cr**	**53**	**48.354**	ug/L	0.493	1	92	88313	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	33370	0	KED
|	**Ni**	**60**	**49.324**	ug/L	1.040	2	97	79207	1	KED
|	**Ni**	**62**	**47.977**	ug/L	1.281	2	15	12345	1	KED
|	**Cu**	**63**	**49.978**	ug/L	1.244	2	198	224398	1	KED
|	**Cu**	**65**	**48.605**	ug/L	0.688	1	107	112041	0	KED
|	**Zn**	**66**	**50.089**	ug/L	0.902	1	67	27704	1	KED
|	**Zn**	**67**	**50.597**	ug/L	2.408	4	15	4559	4	KED
⌊	**As**	**75**	**49.659**	ug/L	1.424	2	4	13295	2	KED
	Y	**89**		ug/L			53627	55035	2	Standard
	Kr	**83**		ug/L			34	50	21	Standard
⌈>	**In-1**	**115**		ug/L			7114	7142	0	KED
|	**Cd**	**111**	**49.790**	ug/L	0.467	0	2	12894	1	KED
⌊	**Cd**	**114**	**49.917**	ug/L	0.583	1	0	33256	1	KED
⌈>	**In**	**115**		ug/L			522018	505738	4	Standard
⌊	**Ag**	**107**	**48.105**	ug/L	1.906	3	24	799289	0	Standard
⌈>	**Tb**	**159**		ug/L			194588	199862	1	Standard
⌊	**Pb**	**208**	**51.228**	ug/L	1.038	2	589	4900055	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:35:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	24390	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	570057	2	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.030	170	10138	10227	2	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.005	170	92	86	11	Standard
⌈>	**Ge**	**72**		ug/L			33052	34200	3	KED
|	**Ni**	**60**	**0.005**	ug/L	0.011	211	97	109	18	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.016	101	15	12	32	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.005	27	198	128	14	KED
|	**Cu**	**65**	**-0.024**	ug/L	0.005	19	107	55	15	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.025	111	67	57	28	KED
|	**Zn**	**67**	**-0.062**	ug/L	0.046	74	15	10	40	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	104	4	3	37	KED
	Y	**89**		ug/L			53627	53691	4	Standard
	Kr	**83**		ug/L			34	40	9	Standard
⌈>	**In-1**	**115**		ug/L			7114	7219	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	147	2	1	114	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	907	0	0	218	KED
⌈>	**In**	**115**		ug/L			522018	508569	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	30	24	77	18	Standard
⌈>	**Tb**	**159**		ug/L			194588	192635	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	55	589	699	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:40:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	37083	2	Standard
⌈>	**Sc**	**45**		ug/L			579638	666315	2	Standard
|	**Cr**	**52**	**14.778**	ug/L	0.414	2	10138	265352	2	Standard
⌊	**Cr**	**53**	**14.846**	ug/L	0.408	2	92	29949	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	33256	2	KED
|	**Ni**	**60**	**13.070**	ug/L	0.294	2	97	20983	0	KED
|	**Ni**	**62**	**13.519**	ug/L	0.640	4	15	3476	2	KED
|	**Cu**	**63**	**33.896**	ug/L	0.667	1	198	151715	0	KED
|	**Cu**	**65**	**34.294**	ug/L	1.367	3	107	78776	1	KED
|	**Zn**	**66**	**78.001**	ug/L	1.335	1	67	42946	0	KED
|	**Zn**	**67**	**76.310**	ug/L	3.075	4	15	6841	2	KED
⌊	**As**	**75**	**7.516**	ug/L	0.211	2	4	2008	1	KED
	Y	**89**		ug/L			53627	253479	2	Standard
	Kr	**83**		ug/L			34	67	14	Standard
⌈>	**In-1**	**115**		ug/L			7114	7022	2	KED
|	**Cd**	**111**	**0.173**	ug/L	0.026	14	2	46	15	KED
⌊	**Cd**	**114**	**0.168**	ug/L	0.032	19	0	110	19	KED
⌈>	**In**	**115**		ug/L			522018	501570	2	Standard
⌊	**Ag**	**107**	**0.124**	ug/L	0.008	6	24	2072	3	Standard
⌈>	**Tb**	**159**		ug/L			194588	216254	2	Standard
⌊	**Pb**	**208**	**24.655**	ug/L	0.542	2	589	2551303	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0063-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:44:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	36093	5	Standard
⌈>	Sc	45		ug/L			579638	675816	1	Standard
|	Cr	52	12.093	ug/L	0.292	2	10138	222478	3	Standard
⌊	Cr	53	11.925	ug/L	0.087	0	92	24429	1	Standard
⌈>	Ge	72		ug/L			33052	32692	0	KED
|	Ni	60	10.569	ug/L	0.056	0	97	16704	0	KED
|	Ni	62	10.693	ug/L	0.267	2	15	2708	2	KED
|	Cu	63	28.415	ug/L	0.362	1	198	125086	0	KED
|	Cu	65	27.586	ug/L	0.411	1	107	62347	1	KED
|	Zn	66	54.295	ug/L	1.764	3	67	29412	2	KED
|	Zn	67	54.009	ug/L	0.750	1	15	4767	0	KED
⌊	As	75	6.145	ug/L	0.125	2	4	1615	1	KED
	Y	89		ug/L			53627	247657	1	Standard
	Kr	83		ug/L			34	70	10	Standard
⌈>	In-1	115		ug/L			7114	6869	3	KED
|	Cd	111	0.128	ug/L	0.034	26	2	33	26	KED
⌊	Cd	114	0.143	ug/L	0.032	22	0	91	23	KED
⌈>	In	115		ug/L			522018	498017	1	Standard
⌊	Ag	107	0.114	ug/L	0.004	3	24	1886	1	Standard
⌈>	Tb	159		ug/L			194588	218860	2	Standard
⌊	Pb	208	11.885	ug/L	0.301	2	589	1244967	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0063-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:49:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	35499	1	Standard
⌈>	Sc	45		ug/L			579638	667168	1	Standard
|	Cr	52	12.476	ug/L	0.197	1	10138	226180	1	Standard
⌊	Cr	53	12.216	ug/L	0.084	0	92	24701	1	Standard
⌈>	Ge	72		ug/L			33052	32239	3	KED
|	Ni	60	10.330	ug/L	0.214	2	97	16096	1	KED
|	Ni	62	10.576	ug/L	0.168	1	15	2640	2	KED
|	Cu	63	29.293	ug/L	0.285	0	198	127139	2	KED
|	Cu	65	28.863	ug/L	0.751	2	107	64290	0	KED
|	Zn	66	56.772	ug/L	2.696	4	67	30296	1	KED
|	Zn	67	55.840	ug/L	3.137	5	15	4854	2	KED
⌊	As	75	7.812	ug/L	0.264	3	4	2022	1	KED
	Y	89		ug/L			53627	245815	2	Standard
	Kr	83		ug/L			34	64	9	Standard
⌈>	In-1	115		ug/L			7114	6861	2	KED
|	Cd	111	0.175	ug/L	0.040	22	2	45	19	KED
⌊	Cd	114	0.161	ug/L	0.030	18	0	103	17	KED
⌈>	In	115		ug/L			522018	506848	1	Standard
⌊	Ag	107	0.117	ug/L	0.005	4	24	1968	5	Standard
⌈>	Tb	159		ug/L			194588	214654	2	Standard
⌊	Pb	208	11.626	ug/L	0.374	3	589	1194319	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0452-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:53:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	105848	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	461044	2	Standard
|	**Cr**	**52**	**2.573**	ug/L	0.016	0	10138	38630	2	Standard
⌊	**Cr**	**53**	**2.140**	ug/L	0.084	3	92	3048	1	Standard
⌈>	**Ge**	**72**		ug/L			33052	25757	1	KED
|	**Ni**	**60**	**3.973**	ug/L	0.094	2	97	4995	2	KED
|	**Ni**	**62**	**3.970**	ug/L	0.157	3	15	800	4	KED
|	**Cu**	**63**	**0.400**	ug/L	0.004	1	198	1539	0	KED
|	**Cu**	**65**	**0.392**	ug/L	0.035	8	107	780	7	KED
|	**Zn**	**66**	**2.796**	ug/L	0.241	8	67	1243	8	KED
|	**Zn**	**67**	**2.790**	ug/L	0.296	10	15	205	9	KED
⌊	**As**	**75**	**0.134**	ug/L	0.017	12	4	31	10	KED
	Y	**89**		ug/L			53627	44123	1	Standard
	Kr	**83**		ug/L			34	34	27	Standard
⌈>	**In-1**	**115**		ug/L			7114	5449	7	KED
|	**Cd**	**111**	**0.033**	ug/L	0.004	11	2	8	13	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.009	35	0	13	39	KED
⌈>	**In**	**115**		ug/L			522018	421633	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.005	111	24	76	82	Standard
⌈>	**Tb**	**159**		ug/L			194588	165473	1	Standard
⌊	**Pb**	**208**	**0.040**	ug/L	0.001	1	589	3659	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0462-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:58:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	27229	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	536374	1	Standard
|	**Cr**	**52**	**0.130**	ug/L	0.034	26	10138	11176	4	Standard
⌊	**Cr**	**53**	**0.395**	ug/L	0.027	6	92	725	7	Standard
⌈>	**Ge**	**72**		ug/L			33052	27488	2	KED
|	**Ni**	**60**	**1.680**	ug/L	0.028	1	97	2301	2	KED
|	**Ni**	**62**	**1.689**	ug/L	0.045	2	15	370	1	KED
|	**Cu**	**63**	**0.581**	ug/L	0.032	5	198	2311	3	KED
|	**Cu**	**65**	**0.564**	ug/L	0.036	6	107	1158	5	KED
|	**Zn**	**66**	**1.179**	ug/L	0.101	8	67	591	5	KED
|	**Zn**	**67**	**1.938**	ug/L	0.261	13	15	156	14	KED
⌊	**As**	**75**	**0.362**	ug/L	0.010	2	4	83	0	KED
	Y	**89**		ug/L			53627	49793	3	Standard
	Kr	**83**		ug/L			34	47	16	Standard
⌈>	**In-1**	**115**		ug/L			7114	5876	2	KED
|	**Cd**	**111**	**0.015**	ug/L	0.008	49	2	5	28	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.008	42	0	10	38	KED
⌈>	**In**	**115**		ug/L			522018	482911	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	276	24	24	20	Standard
⌈>	**Tb**	**159**		ug/L			194588	180457	1	Standard
⌊	**Pb**	**208**	**0.029**	ug/L	0.001	2	589	3029	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:03:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	37969	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	547722	2	Standard
|	**Cr**	**52**	**0.714**	ug/L	0.028	3	10138	19664	2	Standard
⌊	**Cr**	**53**	**0.678**	ug/L	0.015	2	92	1207	0	Standard
⌈>	**Ge**	**72**		ug/L			33052	30087	2	KED
|	**Ni**	**60**	**0.612**	ug/L	0.033	5	97	975	6	KED
|	**Ni**	**62**	**0.639**	ug/L	0.038	5	15	162	7	KED
|	**Cu**	**63**	**5.288**	ug/L	0.088	1	198	21568	0	KED
|	**Cu**	**65**	**5.255**	ug/L	0.116	2	107	11007	0	KED
|	**Zn**	**66**	**140.941**	ug/L	1.920	1	67	70163	1	KED
|	**Zn**	**67**	**133.083**	ug/L	3.879	2	15	10786	2	KED
⌊	**As**	**75**	**1.106**	ug/L	0.012	1	4	270	1	KED
	Y	**89**		ug/L			53627	51171	1	Standard
	Kr	**83**		ug/L			34	71	15	Standard
⌈>	**In-1**	**115**		ug/L			7114	6329	1	KED
|	**Cd**	**111**	**0.112**	ug/L	0.013	12	2	27	12	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.002	2	0	57	2	KED
⌈>	**In**	**115**		ug/L			522018	493757	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.001	7	24	170	6	Standard
⌈>	**Tb**	**159**		ug/L			194588	185755	1	Standard
⌊	**Pb**	**208**	**0.563**	ug/L	0.020	3	589	50598	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:08:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	36538	6	Standard
⌈>	**Sc**	**45**		ug/L			579638	578838	2	Standard
|	**Cr**	**52**	**0.519**	ug/L	0.007	1	10138	17866	2	Standard
⌊	**Cr**	**53**	**0.988**	ug/L	0.059	5	92	1818	5	Standard
⌈>	**Ge**	**72**		ug/L			33052	29808	1	KED
|	**Ni**	**60**	**0.569**	ug/L	0.017	2	97	904	3	KED
|	**Ni**	**62**	**0.530**	ug/L	0.027	5	15	135	3	KED
|	**Cu**	**63**	**3.554**	ug/L	0.126	3	198	14417	2	KED
|	**Cu**	**65**	**3.585**	ug/L	0.056	1	107	7470	0	KED
|	**Zn**	**66**	**2.359**	ug/L	0.068	2	67	1222	1	KED
|	**Zn**	**67**	**2.363**	ug/L	0.363	15	15	203	14	KED
⌊	**As**	**75**	**1.123**	ug/L	0.031	2	4	272	1	KED
	Y	**89**		ug/L			53627	59933	0	Standard
	Kr	**83**		ug/L			34	63	13	Standard
⌈>	**In-1**	**115**		ug/L			7114	6300	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.009	216	2	2	66	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.002	17	0	6	16	KED
⌈>	**In**	**115**		ug/L			522018	486907	0	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.000	2	24	141	1	Standard
⌈>	**Tb**	**159**		ug/L			194588	189476	1	Standard
⌊	**Pb**	**208**	**0.205**	ug/L	0.005	2	589	19197	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:12:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	38119	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	558704	1	Standard
|	**Cr**	**52**	**0.554**	ug/L	0.023	4	10138	17750	3	Standard
⌊	**Cr**	**53**	**0.562**	ug/L	0.027	4	92	1036	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	30571	1	KED
|	**Ni**	**60**	**0.746**	ug/L	0.032	4	97	1186	2	KED
|	**Ni**	**62**	**0.744**	ug/L	0.118	15	15	189	14	KED
|	**Cu**	**63**	**5.766**	ug/L	0.128	2	198	23876	0	KED
|	**Cu**	**65**	**5.570**	ug/L	0.189	3	107	11848	2	KED
|	**Zn**	**66**	**60.188**	ug/L	2.507	4	67	30468	2	KED
|	**Zn**	**67**	**58.288**	ug/L	1.458	2	15	4810	3	KED
⌊	**As**	**75**	**0.270**	ug/L	0.016	6	4	70	6	KED
	Y	**89**		ug/L			53627	54774	3	Standard
	Kr	**83**		ug/L			34	70	10	Standard
⌈>	**In-1**	**115**		ug/L			7114	6555	0	KED
|	**Cd**	**111**	**0.049**	ug/L	0.020	40	2	13	34	KED
⌊	**Cd**	**114**	**0.048**	ug/L	0.005	9	0	29	9	KED
⌈>	**In**	**115**		ug/L			522018	515795	2	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	14	24	168	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	191287	1	Standard
⌊	**Pb**	**208**	**0.846**	ug/L	0.012	1	589	78051	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:17:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	38665	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	566861	1	Standard
|	**Cr**	**52**	**0.728**	ug/L	0.010	1	10138	20546	2	Standard
⌊	**Cr**	**53**	**0.803**	ug/L	0.062	7	92	1465	8	Standard
⌈>	**Ge**	**72**		ug/L			33052	31153	1	KED
|	**Ni**	**60**	**1.149**	ug/L	0.046	3	97	1813	4	KED
|	**Ni**	**62**	**1.105**	ug/L	0.081	7	15	280	5	KED
|	**Cu**	**63**	**6.771**	ug/L	0.129	1	198	28541	0	KED
|	**Cu**	**65**	**6.596**	ug/L	0.167	2	107	14285	3	KED
|	**Zn**	**66**	**65.082**	ug/L	0.876	1	67	33581	0	KED
|	**Zn**	**67**	**61.094**	ug/L	4.276	6	15	5132	5	KED
⌊	**As**	**75**	**0.523**	ug/L	0.041	7	4	134	6	KED
	Y	**89**		ug/L			53627	59942	1	Standard
	Kr	**83**		ug/L			34	76	13	Standard
⌈>	**In-1**	**115**		ug/L			7114	6559	2	KED
|	**Cd**	**111**	**0.061**	ug/L	0.030	48	2	16	42	KED
⌊	**Cd**	**114**	**0.056**	ug/L	0.002	4	0	34	6	KED
⌈>	**In**	**115**		ug/L			522018	504265	0	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	12	24	164	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	192160	1	Standard
⌊	**Pb**	**208**	**2.595**	ug/L	0.038	1	589	239201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:21:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21544	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	545161	2	Standard
|	**Cr**	**52**	**-0.044**	ug/L	0.022	49	10138	8919	2	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.003	39	92	100	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	30281	2	KED
|	**Ni**	**60**	**0.028**	ug/L	0.008	27	97	130	5	KED
|	**Ni**	**62**	**0.036**	ug/L	0.016	46	15	22	16	KED
|	**Cu**	**63**	**0.014**	ug/L	0.008	60	198	236	11	KED
|	**Cu**	**65**	**0.010**	ug/L	0.009	99	107	118	16	KED
|	**Zn**	**66**	**-0.013**	ug/L	0.015	120	67	55	13	KED
|	**Zn**	**67**	**-0.085**	ug/L	0.021	24	15	7	25	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.006	79	4	2	60	KED
	Y	**89**		ug/L			53627	50064	2	Standard
	Kr	**83**		ug/L			34	67	16	Standard
⌈>	**In-1**	**115**		ug/L			7114	6136	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.007	168	2	0	173	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	12	0	0	50	KED
⌈>	**In**	**115**		ug/L			522018	493408	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	30	24	7	66	Standard
⌈>	**Tb**	**159**		ug/L			194588	186807	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	396	589	558	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:26:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21516	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	550260	3	Standard
|	**Cr**	**52**	**49.898**	ug/L	0.736	1	10138	717062	2	Standard
⌊	**Cr**	**53**	**48.905**	ug/L	0.774	1	92	81286	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	30601	1	KED
|	**Ni**	**60**	**49.258**	ug/L	1.105	2	97	72531	1	KED
|	**Ni**	**62**	**49.062**	ug/L	0.777	1	15	11579	2	KED
|	**Cu**	**63**	**50.423**	ug/L	1.755	3	198	207598	2	KED
|	**Cu**	**65**	**50.155**	ug/L	0.422	0	107	106033	2	KED
|	**Zn**	**66**	**51.110**	ug/L	1.440	2	67	25916	1	KED
|	**Zn**	**67**	**50.481**	ug/L	0.741	1	15	4171	0	KED
⌊	**As**	**75**	**49.333**	ug/L	0.457	0	4	12111	0	KED
	Y	**89**		ug/L			53627	51421	2	Standard
	Kr	**83**		ug/L			34	50	35	Standard
⌈>	**In-1**	**115**		ug/L			7114	6373	2	KED
|	**Cd**	**111**	**51.144**	ug/L	0.617	1	2	11817	1	KED
⌊	**Cd**	**114**	**51.111**	ug/L	1.372	2	0	30374	0	KED
⌈>	**In**	**115**		ug/L			522018	491126	0	Standard
⌊	**Ag**	**107**	**46.025**	ug/L	0.868	1	24	743507	2	Standard
⌈>	**Tb**	**159**		ug/L			194588	193039	1	Standard
⌊	**Pb**	**208**	**53.346**	ug/L	0.719	1	589	4928316	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:33:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	20958	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	544844	3	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.007	18	10138	9030	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	108	92	73	17	Standard
⌈>	**Ge**	**72**		ug/L			33052	30925	2	KED
|	**Ni**	**60**	**0.009**	ug/L	0.032	345	97	106	47	KED
|	**Ni**	**62**	**0.017**	ug/L	0.041	236	15	19	51	KED
|	**Cu**	**63**	**0.011**	ug/L	0.031	286	198	232	57	KED
|	**Cu**	**65**	**0.003**	ug/L	0.019	572	107	108	39	KED
|	**Zn**	**66**	**-0.038**	ug/L	0.026	68	67	43	32	KED
|	**Zn**	**67**	**-0.087**	ug/L	0.023	26	15	7	25	KED
⌊	**As**	**75**	**0.012**	ug/L	0.013	106	4	7	46	KED
	Y	**89**		ug/L			53627	51661	1	Standard
	Kr	**83**		ug/L			34	57	21	Standard
⌈>	**In-1**	**115**		ug/L			7114	6496	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	191	2	1	114	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	5	0	0	21	KED
⌈>	**In**	**115**		ug/L			522018	495425	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	9	24	44	4	Standard
⌈>	**Tb**	**159**		ug/L			194588	187990	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	9	589	317	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0138-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:37:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	26731	3	Standard
⌈>	Sc	45		ug/L			579638	510919	2	Standard
|	Cr	52	3.536	ug/L	0.053	1	10138	55491	1	Standard
⌊	Cr	53	3.450	ug/L	0.048	1	92	5401	3	Standard
⌈>	Ge	72		ug/L			33052	27574	0	KED
|	Ni	60	0.373	ug/L	0.022	5	97	576	5	KED
|	Ni	62	0.368	ug/L	0.037	9	15	91	8	KED
|	Cu	63	2.632	ug/L	0.032	1	198	9922	1	KED
|	Cu	65	2.576	ug/L	0.005	0	107	4991	0	KED
|	Zn	66	1.731	ug/L	0.144	8	67	845	6	KED
|	Zn	67	1.654	ug/L	0.275	16	15	135	14	KED
⌊	As	75	0.040	ug/L	0.010	23	4	12	17	KED
	Y	89		ug/L			53627	46957	1	Standard
	Kr	83		ug/L			34	50	22	Standard
⌈>	In-1	115		ug/L			7114	5630	4	KED
|	Cd	111	0.012	ug/L	0.007	62	2	4	35	KED
⌊	Cd	114	0.005	ug/L	0.002	32	0	2	32	KED
⌈>	In	115		ug/L			522018	454440	3	Standard
⌊	Ag	107	0.001	ug/L	0.001	86	24	35	32	Standard
⌈>	Tb	159		ug/L			194588	177445	0	Standard
⌊	Pb	208	0.009	ug/L	0.000	4	589	1292	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0139-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:42:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	25305	6	Standard
⌈>	Sc	45		ug/L			579638	495840	2	Standard
|	Cr	52	6.970	ug/L	0.074	1	10138	97727	1	Standard
⌊	Cr	53	6.889	ug/L	0.140	2	92	10389	3	Standard
⌈>	Ge	72		ug/L			33052	26357	0	KED
|	Ni	60	0.396	ug/L	0.027	6	97	579	5	KED
|	Ni	62	0.351	ug/L	0.046	13	15	83	10	KED
|	Cu	63	2.634	ug/L	0.022	0	198	9492	0	KED
|	Cu	65	2.580	ug/L	0.023	0	107	4779	1	KED
|	Zn	66	1.552	ug/L	0.050	3	67	730	2	KED
|	Zn	67	1.324	ug/L	0.279	21	15	106	19	KED
⌊	As	75	0.037	ug/L	0.004	10	4	11	7	KED
	Y	89		ug/L			53627	45441	0	Standard
	Kr	83		ug/L			34	40	33	Standard
⌈>	In-1	115		ug/L			7114	5374	2	KED
|	Cd	111	0.009	ug/L	0.014	150	2	3	78	KED
⌊	Cd	114	0.027	ug/L	0.012	46	0	13	43	KED
⌈>	In	115		ug/L			522018	432964	3	Standard
⌊	Ag	107	0.001	ug/L	0.000	45	24	31	12	Standard
⌈>	Tb	159		ug/L			194588	174764	1	Standard
⌊	Pb	208	0.034	ug/L	0.001	1	589	3409	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0139-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:47:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	26683	4	Standard
⌈>	Sc	45		ug/L			579638	489659	3	Standard
|	Cr	52	3.753	ug/L	0.073	1	10138	55912	1	Standard
⌊	Cr	53	3.762	ug/L	0.018	0	92	5636	2	Standard
⌈>	Ge	72		ug/L			33052	26552	0	KED
|	Ni	60	0.369	ug/L	0.018	4	97	549	4	KED
|	Ni	62	0.345	ug/L	0.078	22	15	83	18	KED
|	Cu	63	2.510	ug/L	0.028	1	198	9120	0	KED
|	Cu	65	2.433	ug/L	0.067	2	107	4546	3	KED
|	Zn	66	1.083	ug/L	0.028	2	67	529	2	KED
|	Zn	67	0.817	ug/L	0.129	15	15	71	12	KED
⌊	As	75	0.036	ug/L	0.011	29	4	11	19	KED
	Y	89		ug/L			53627	46118	3	Standard
	Kr	83		ug/L			34	36	7	Standard
⌈>	In-1	115		ug/L			7114	5389	1	KED
|	Cd	111	0.017	ug/L	0.006	33	2	5	21	KED
⌊	Cd	114	0.010	ug/L	0.007	70	0	5	65	KED
⌈>	In	115		ug/L			522018	441133	2	Standard
⌊	Ag	107	-0.001	ug/L	0.000	46	24	12	31	Standard
⌈>	Tb	159		ug/L			194588	175179	1	Standard
⌊	Pb	208	0.007	ug/L	0.001	12	589	1111	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0139-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:53:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	26767	4	Standard
⌈>	Sc	45		ug/L			579638	504015	1	Standard
|	Cr	52	3.513	ug/L	0.093	2	10138	54463	4	Standard
⌊	Cr	53	3.463	ug/L	0.043	1	92	5348	3	Standard
⌈>	Ge	72		ug/L			33052	26771	0	KED
|	Ni	60	0.451	ug/L	0.023	5	97	659	4	KED
|	Ni	62	0.489	ug/L	0.039	8	15	113	6	KED
|	Cu	63	2.660	ug/L	0.052	1	198	9732	0	KED
|	Cu	65	2.699	ug/L	0.079	2	107	5073	1	KED
|	Zn	66	1.768	ug/L	0.133	7	67	836	6	KED
|	Zn	67	1.750	ug/L	0.245	13	15	139	13	KED
⌊	As	75	0.035	ug/L	0.007	21	4	11	15	KED
	Y	89		ug/L			53627	46971	2	Standard
	Kr	83		ug/L			34	48	12	Standard
⌈>	In-1	115		ug/L			7114	5586	1	KED
|	Cd	111	0.010	ug/L	0.005	47	2	3	25	KED
⌊	Cd	114	0.010	ug/L	0.004	41	0	5	37	KED
⌈>	In	115		ug/L			522018	433798	0	Standard
⌊	Ag	107	0.002	ug/L	0.001	54	24	53	34	Standard
⌈>	Tb	159		ug/L			194588	175484	1	Standard
⌊	Pb	208	0.014	ug/L	0.001	5	589	1719	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:57:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	20581	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	514460	2	Standard
|	**Cr**	**52**	**0.023**	ug/L	0.028	121	10138	9300	1	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.001	15	92	67	3	Standard
⌈>	**Ge**	**72**		ug/L			33052	29561	0	KED
|	**Ni**	**60**	**0.037**	ug/L	0.010	28	97	139	10	KED
|	**Ni**	**62**	**0.010**	ug/L	0.040	389	15	16	54	KED
|	**Cu**	**63**	**-0.030**	ug/L	0.002	8	198	57	16	KED
|	**Cu**	**65**	**-0.036**	ug/L	0.003	6	107	22	22	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.016	93	67	52	15	KED
|	**Zn**	**67**	**-0.107**	ug/L	0.041	38	15	5	57	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.005	67	4	2	53	KED
	Y	**89**		ug/L			53627	48791	1	Standard
	Kr	**83**		ug/L			34	54	43	Standard
⌈>	**In-1**	**115**		ug/L			7114	6083	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	315	2	1	69	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	123	0	1	90	KED
⌈>	**In**	**115**		ug/L			522018	488801	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	49	24	18	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	184314	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	30	589	479	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0136-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:02:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	32770	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	557739	0	Standard
|	**Cr**	**52**	**67.274**	ug/L	2.653	3	10138	976668	3	Standard
⌊	**Cr**	**53**	**66.446**	ug/L	0.652	0	92	111934	1	Standard
⌈>	**Ge**	**72**		ug/L			33052	29236	0	KED
|	**Ni**	**60**	**1.121**	ug/L	0.050	4	97	1661	3	KED
|	**Ni**	**62**	**1.234**	ug/L	0.177	14	15	292	14	KED
|	**Cu**	**63**	**7.027**	ug/L	0.005	0	198	27797	0	KED
|	**Cu**	**65**	**6.877**	ug/L	0.141	2	107	13973	2	KED
|	**Zn**	**66**	**6.382**	ug/L	0.084	1	67	3144	1	KED
|	**Zn**	**67**	**6.911**	ug/L	0.750	10	15	557	9	KED
⌊	**As**	**75**	**2.137**	ug/L	0.056	2	4	504	2	KED
	Y	**89**		ug/L			53627	87368	1	Standard
	Kr	**83**		ug/L			34	57	10	Standard
⌈>	**In-1**	**115**		ug/L			7114	6172	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	235	2	2	57	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.010	69	0	8	65	KED
⌈>	**In**	**115**		ug/L			522018	485517	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.000	2	24	199	4	Standard
⌈>	**Tb**	**159**		ug/L			194588	194873	2	Standard
⌊	**Pb**	**208**	**1.553**	ug/L	0.050	3	589	145383	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0137-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:06:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	35755	6	Standard
⌈>	**Sc**	**45**		ug/L			579638	535473	2	Standard
|	**Cr**	**52**	**0.338**	ug/L	0.032	9	10138	14033	5	Standard
⌊	**Cr**	**53**	**0.343**	ug/L	0.012	3	92	639	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	29985	1	KED
|	**Ni**	**60**	**0.275**	ug/L	0.028	10	97	484	6	KED
|	**Ni**	**62**	**0.284**	ug/L	0.052	18	15	80	14	KED
|	**Cu**	**63**	**4.731**	ug/L	0.041	0	198	19250	1	KED
|	**Cu**	**65**	**4.659**	ug/L	0.101	2	107	9738	2	KED
|	**Zn**	**66**	**45.233**	ug/L	0.593	1	67	22489	2	KED
|	**Zn**	**67**	**42.656**	ug/L	1.352	3	15	3456	3	KED
⌊	**As**	**75**	**0.172**	ug/L	0.015	8	4	45	9	KED
	Y	**89**		ug/L			53627	51488	2	Standard
	Kr	**83**		ug/L			34	48	35	Standard
⌈>	**In-1**	**115**		ug/L			7114	6231	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.011	39	2	7	30	KED
⌊	**Cd**	**114**	**0.040**	ug/L	0.007	16	0	23	17	KED
⌈>	**In**	**115**		ug/L			522018	499250	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	15	24	86	10	Standard
⌈>	**Tb**	**159**		ug/L			194588	189397	1	Standard
⌊	**Pb**	**208**	**0.787**	ug/L	0.023	2	589	71873	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-21
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:11:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	33248	2	Standard
⌈>	Sc	45		ug/L			579638	537208	1	Standard
|	Cr	52	0.097	ug/L	0.020	20	10138	10742	2	Standard
⌊	Cr	53	0.104	ug/L	0.004	3	92	253	3	Standard
⌈>	Ge	72		ug/L			33052	29942	2	KED
|	Ni	60	0.000	ug/L	0.010	5753	97	88	17	KED
|	Ni	62	0.026	ug/L	0.014	53	15	20	14	KED
|	Cu	63	0.081	ug/L	0.008	9	198	505	6	KED
|	Cu	65	0.080	ug/L	0.008	10	107	262	4	KED
|	Zn	66	0.867	ug/L	0.118	13	67	490	11	KED
|	Zn	67	0.698	ug/L	0.164	23	15	70	16	KED
⌊	As	75	0.000	ug/L	0.007	1825	4	4	43	KED
	Y	89		ug/L			53627	50819	1	Standard
	Kr	83		ug/L			34	50	11	Standard
⌈>	In-1	115		ug/L			7114	6279	2	KED
|	Cd	111	0.005	ug/L	0.002	39	2	3	17	KED
⌊	Cd	114	0.004	ug/L	0.002	46	0	2	39	KED
⌈>	In	115		ug/L			522018	507431	1	Standard
⌊	Ag	107	-0.000	ug/L	0.001	2064	24	23	46	Standard
⌈>	Tb	159		ug/L			194588	187192	0	Standard
⌊	Pb	208	0.021	ug/L	0.001	6	589	2460	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-22
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:15:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	33216	5	Standard
>	Sc	45		ug/L			579638	540455	2	Standard
	Cr	52	0.193	ug/L	0.007	3	10138	12141	2	Standard
	Cr	53	0.213	ug/L	0.006	2	92	432	1	Standard
>	Ge	72		ug/L			33052	29934	2	KED
	Ni	60	-0.016	ug/L	0.007	43	97	65	13	KED
	Ni	62	-0.013	ug/L	0.015	121	15	11	28	KED
	Cu	63	0.144	ug/L	0.010	6	198	760	2	KED
	Cu	65	0.145	ug/L	0.007	4	107	398	4	KED
	Zn	66	0.558	ug/L	0.016	2	67	337	2	KED
	Zn	67	0.635	ug/L	0.206	32	15	65	24	KED
	As	75	-0.008	ug/L	0.004	48	4	2	48	KED
	Y	89		ug/L			53627	51381	1	Standard
	Kr	83		ug/L			34	43	45	Standard
>	In-1	115		ug/L			7114	6475	1	KED
	Cd	111	-0.005	ug/L	0.004	87	2	0	100	KED
	Cd	114	-0.001	ug/L	0.000	18	0	0	91	KED
>	In	115		ug/L			522018	506450	0	Standard
	Ag	107	-0.000	ug/L	0.000	27	24	15	13	Standard
>	Tb	159		ug/L			194588	190548	0	Standard
	Pb	208	0.003	ug/L	0.001	18	589	829	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:20:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21935	7	Standard
⌈>	**Sc**	**45**		ug/L			579638	534807	2	Standard
|	**Cr**	**52**	**-0.045**	ug/L	0.003	6	10138	8736	2	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.004	69	92	75	6	Standard
⌈>	**Ge**	**72**		ug/L			33052	29971	2	KED
|	**Ni**	**60**	**0.025**	ug/L	0.011	45	97	123	11	KED
|	**Ni**	**62**	**0.043**	ug/L	0.040	95	15	24	37	KED
|	**Cu**	**63**	**-0.031**	ug/L	0.002	6	198	53	16	KED
|	**Cu**	**65**	**-0.033**	ug/L	0.009	26	107	29	59	KED
|	**Zn**	**66**	**-0.013**	ug/L	0.015	121	67	54	12	KED
|	**Zn**	**67**	**-0.060**	ug/L	0.096	158	15	9	80	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.009	99	4	1	108	KED
	Y	**89**		ug/L			53627	51479	1	Standard
	Kr	**83**		ug/L			34	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7114	6208	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.004	3385	2	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	255	0	1	184	KED
⌈>	**In**	**115**		ug/L			522018	496396	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	8	24	8	12	Standard
⌈>	**Tb**	**159**		ug/L			194588	186482	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	16	589	459	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:24:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	22807	7	Standard
⌈>	**Sc**	**45**		ug/L			579638	556000	2	Standard
|	**Cr**	**52**	**48.851**	ug/L	0.760	1	10138	709575	1	Standard
⌊	**Cr**	**53**	**48.141**	ug/L	0.705	1	92	80877	3	Standard
⌈>	**Ge**	**72**		ug/L			33052	29925	0	KED
|	**Ni**	**60**	**50.748**	ug/L	0.354	0	97	73083	1	KED
|	**Ni**	**62**	**50.531**	ug/L	1.699	3	15	11660	3	KED
|	**Cu**	**63**	**51.681**	ug/L	0.769	1	198	208097	1	KED
|	**Cu**	**65**	**50.635**	ug/L	1.471	2	107	104669	2	KED
|	**Zn**	**66**	**51.834**	ug/L	0.857	1	67	25705	1	KED
|	**Zn**	**67**	**50.952**	ug/L	0.559	1	15	4117	0	KED
⌊	**As**	**75**	**50.274**	ug/L	0.907	1	4	12069	1	KED
	Y	**89**		ug/L			53627	50922	0	Standard
	Kr	**83**		ug/L			34	59	6	Standard
⌈>	**In-1**	**115**		ug/L			7114	6455	1	KED
|	**Cd**	**111**	**50.608**	ug/L	1.004	1	2	11844	0	KED
⌊	**Cd**	**114**	**51.083**	ug/L	1.456	2	0	30752	1	KED
⌈>	**In**	**115**		ug/L			522018	489404	3	Standard
⌊	**Ag**	**107**	**46.320**	ug/L	1.660	3	24	744936	0	Standard
⌈>	**Tb**	**159**		ug/L			194588	189215	1	Standard
⌊	**Pb**	**208**	**54.914**	ug/L	0.055	0	589	4973228	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:31:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	22233	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	549986	1	Standard
|	**Cr**	**52**	**-0.050**	ug/L	0.020	40	10138	8905	3	Standard
⌊	**Cr**	**53**	**-0.014**	ug/L	0.005	36	92	64	12	Standard
⌈>	**Ge**	**72**		ug/L			33052	30190	2	KED
|	**Ni**	**60**	**-0.022**	ug/L	0.003	15	97	57	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.013	257	15	13	24	KED
|	**Cu**	**63**	**-0.035**	ug/L	0.004	12	198	38	45	KED
|	**Cu**	**65**	**-0.040**	ug/L	0.002	6	107	15	30	KED
|	**Zn**	**66**	**-0.071**	ug/L	0.013	18	67	26	23	KED
|	**Zn**	**67**	**-0.155**	ug/L	0.024	15	15	1	100	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.006	114	4	2	56	KED
	Y	**89**		ug/L			53627	49886	1	Standard
	Kr	**83**		ug/L			34	40	18	Standard
⌈>	**In-1**	**115**		ug/L			7114	6635	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.000	41	2	1		KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	42	0	3	37	KED
⌈>	**In**	**115**		ug/L			522018	502273	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	86	24	62	52	Standard
⌈>	**Tb**	**159**		ug/L			194588	186108	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.002	146	589	411	53	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-11
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:36:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	31765	4	Standard
⌈>	Sc	45		ug/L			579638	563677	2	Standard
|	Cr	52	0.516	ug/L	0.028	5	10138	17347	1	Standard
⌊	Cr	53	0.528	ug/L	0.028	5	92	987	7	Standard
⌈>	Ge	72		ug/L			33052	31098	3	KED
|	Ni	60	0.485	ug/L	0.004	0	97	817	3	KED
|	Ni	62	0.513	ug/L	0.019	3	15	137	2	KED
|	Cu	63	4.141	ug/L	0.127	3	198	17492	1	KED
|	Cu	65	4.064	ug/L	0.150	3	107	8818	0	KED
|	Zn	66	14.845	ug/L	0.550	3	67	7690	1	KED
|	Zn	67	13.795	ug/L	1.052	7	15	1168	6	KED
⌊	As	75	0.979	ug/L	0.034	3	4	248	1	KED
	Y	89		ug/L			53627	58044	1	Standard
	Kr	83		ug/L			34	40	45	Standard
⌈>	In-1	115		ug/L			7114	6522	1	KED
|	Cd	111	0.010	ug/L	0.015	148	2	4	81	KED
⌊	Cd	114	0.024	ug/L	0.022	92	0	15	90	KED
⌈>	In	115		ug/L			522018	517383	2	Standard
⌊	Ag	107	0.005	ug/L	0.001	12	24	112	7	Standard
⌈>	Tb	159		ug/L			194588	192288	0	Standard
⌊	Pb	208	0.297	ug/L	0.004	1	589	27902	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-13
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:40:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	33420	6	Standard
⌈>	Sc	45		ug/L			579638	597184	2	Standard
|	Cr	52	0.086	ug/L	0.003	3	10138	11761	2	Standard
⌊	Cr	53	0.672	ug/L	0.020	3	92	1306	5	Standard
⌈>	Ge	72		ug/L			33052	29672	0	KED
|	Ni	60	0.873	ug/L	0.063	7	97	1333	7	KED
|	Ni	62	0.796	ug/L	0.037	4	15	196	3	KED
|	Cu	63	2.671	ug/L	0.041	1	198	10832	1	KED
|	Cu	65	2.604	ug/L	0.067	2	107	5428	2	KED
|	Zn	66	4.566	ug/L	0.064	1	67	2300	0	KED
|	Zn	67	4.512	ug/L	0.361	8	15	374	8	KED
⌊	As	75	8.446	ug/L	0.070	0	4	2013	0	KED
	Y	89		ug/L			53627	52902	3	Standard
	Kr	83		ug/L			34	40	29	Standard
⌈>	In-1	115		ug/L			7114	6338	3	KED
|	Cd	111	0.044	ug/L	0.017	39	2	12	35	KED
⌊	Cd	114	0.047	ug/L	0.021	45	0	28	48	KED
⌈>	In	115		ug/L			522018	485458	1	Standard
⌊	Ag	107	0.007	ug/L	0.001	11	24	130	8	Standard
⌈>	Tb	159		ug/L			194588	190390	1	Standard
⌊	Pb	208	0.116	ug/L	0.005	4	589	11107	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:45:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	38314	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	646981	2	Standard
|	**Cr**	**52**	**0.888**	ug/L	0.023	2	10138	26120	2	Standard
⌊	**Cr**	**53**	**1.076**	ug/L	0.017	1	92	2203	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	29945	1	KED
|	**Ni**	**60**	**1.543**	ug/L	0.011	0	97	2310	0	KED
|	**Ni**	**62**	**1.604**	ug/L	0.107	6	15	384	5	KED
|	**Cu**	**63**	**8.861**	ug/L	0.062	0	198	35851	0	KED
|	**Cu**	**65**	**8.710**	ug/L	0.233	2	107	18094	1	KED
|	**Zn**	**66**	**59.363**	ug/L	1.858	3	67	29443	1	KED
|	**Zn**	**67**	**55.640**	ug/L	1.116	2	15	4497	2	KED
⌊	**As**	**75**	**13.552**	ug/L	0.241	1	4	3258	0	KED
	Y	**89**		ug/L			53627	53454	1	Standard
	Kr	**83**		ug/L			34	42	31	Standard
⌈>	**In-1**	**115**		ug/L			7114	6255	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.028	29	2	23	26	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.028	29	0	55	31	KED
⌈>	**In**	**115**		ug/L			522018	483384	2	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.003	14	24	338	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	187521	0	Standard
⌊	**Pb**	**208**	**0.498**	ug/L	0.005	1	589	45223	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0480-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:49:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	70854	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	449320	6	Standard
|	**Cr**	**52**	**7.887**	ug/L	0.328	4	10138	99022	2	Standard
⌊	**Cr**	**53**	**7.426**	ug/L	0.154	2	92	10131	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	25478	2	KED
|	**Ni**	**60**	**1.547**	ug/L	0.066	4	97	1969	4	KED
|	**Ni**	**62**	**1.644**	ug/L	0.112	6	15	334	4	KED
|	**Cu**	**63**	**0.100**	ug/L	0.014	13	198	497	9	KED
|	**Cu**	**65**	**0.093**	ug/L	0.018	19	107	246	10	KED
|	**Zn**	**66**	**11.574**	ug/L	0.487	4	67	4924	2	KED
|	**Zn**	**67**	**10.735**	ug/L	0.983	9	15	747	6	KED
⌊	**As**	**75**	**0.044**	ug/L	0.003	6	4	12	3	KED
	Y	**89**		ug/L			53627	44728	0	Standard
	Kr	**83**		ug/L			34	46	9	Standard
⌈>	**In-1**	**115**		ug/L			7114	5192	0	KED
|	**Cd**	**111**	**0.170**	ug/L	0.024	13	2	33	13	KED
⌊	**Cd**	**114**	**0.224**	ug/L	0.028	12	0	108	11	KED
⌈>	**In**	**115**		ug/L			522018	411063	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	143	24	23	26	Standard
⌈>	**Tb**	**159**		ug/L			194588	163966	1	Standard
⌊	**Pb**	**208**	**0.025**	ug/L	0.001	5	589	2473	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:57:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	20319	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	499605	1	Standard
|	**Cr**	**52**	**-0.046**	ug/L	0.012	25	10138	8150	1	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	73	92	71	6	Standard
⌈>	**Ge**	**72**		ug/L			33052	27777	0	KED
|	**Ni**	**60**	**-0.024**	ug/L	0.014	58	97	50	38	KED
|	**Ni**	**62**	**-0.003**	ug/L	0.031	991	15	12	52	KED
|	**Cu**	**63**	**-0.034**	ug/L	0.004	10	198	38	34	KED
|	**Cu**	**65**	**-0.036**	ug/L	0.001	2	107	20	9	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.043	96	67	36	55	KED
|	**Zn**	**67**	**-0.059**	ug/L	0.097	163	15	8	81	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.004	52	4	1	50	KED
	Y	**89**		ug/L			53627	46991	0	Standard
	Kr	**83**		ug/L			34	40	50	Standard
⌈>	**In-1**	**115**		ug/L			7114	5646	3	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.003	50	2	0	86	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	134	0	2	115	KED
⌈>	**In**	**115**		ug/L			522018	478274	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	134	24	15	56	Standard
⌈>	**Tb**	**159**		ug/L			194588	177490	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	8	589	291	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:02:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	25567	1	Standard
⌈>	**Sc**	**45**		ug/L			579638	570472	2	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.013	34	10138	10522	1	Standard
⌊	**Cr**	**53**	**0.161**	ug/L	0.007	4	92	368	5	Standard
⌈>	**Ge**	**72**		ug/L			33052	27813	1	KED
|	**Ni**	**60**	**0.117**	ug/L	0.020	17	97	238	9	KED
|	**Ni**	**62**	**0.157**	ug/L	0.051	32	15	46	23	KED
|	**Cu**	**63**	**0.061**	ug/L	0.008	13	198	394	9	KED
|	**Cu**	**65**	**0.056**	ug/L	0.007	12	107	198	5	KED
|	**Zn**	**66**	**0.314**	ug/L	0.053	16	67	201	13	KED
|	**Zn**	**67**	**0.544**	ug/L	0.135	24	15	53	17	KED
⌊	**As**	**75**	**0.881**	ug/L	0.057	6	4	200	5	KED
	Y	**89**		ug/L			53627	51535	1	Standard
	Kr	**83**		ug/L			34	35	18	Standard
⌈>	**In-1**	**115**		ug/L			7114	5808	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	97	2	1	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	216	0	1	180	KED
⌈>	**In**	**115**		ug/L			522018	466235	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	647	24	23	38	Standard
⌈>	**Tb**	**159**		ug/L			194588	184807	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	10	589	1353	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-DUP3
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:06:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	25921	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	571398	1	Standard
|	**Cr**	**52**	**0.026**	ug/L	0.018	67	10138	10378	1	Standard
⌊	**Cr**	**53**	**0.167**	ug/L	0.014	8	92	378	6	Standard
⌈>	**Ge**	**72**		ug/L			33052	27769	2	KED
|	**Ni**	**60**	**0.146**	ug/L	0.011	7	97	276	3	KED
|	**Ni**	**62**	**0.101**	ug/L	0.050	49	15	34	30	KED
|	**Cu**	**63**	**0.017**	ug/L	0.017	97	198	231	27	KED
|	**Cu**	**65**	**0.013**	ug/L	0.008	62	107	114	13	KED
|	**Zn**	**66**	**0.357**	ug/L	0.064	17	67	220	12	KED
|	**Zn**	**67**	**0.443**	ug/L	0.103	23	15	46	14	KED
⌊	**As**	**75**	**0.944**	ug/L	0.075	7	4	213	5	KED
	Y	**89**		ug/L			53627	51598	1	Standard
	Kr	**83**		ug/L			34	38	23	Standard
⌈>	**In-1**	**115**		ug/L			7114	5735	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.003	39	2	3	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.004	80	0	2	73	KED
⌈>	**In**	**115**		ug/L			522018	473625	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	51	24	15	25	Standard
⌈>	**Tb**	**159**		ug/L			194588	184642	1	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	7	589	1104	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-MS3
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:11:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	26225	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	578116	3	Standard
|	**Cr**	**52**	**4.784**	ug/L	0.234	4	10138	81350	3	Standard
⌊	**Cr**	**53**	**4.812**	ug/L	0.226	4	92	8479	1	Standard
⌈>	**Ge**	**72**		ug/L			33052	28372	0	KED
|	**Ni**	**60**	**5.500**	ug/L	0.057	1	97	7584	1	KED
|	**Ni**	**62**	**5.488**	ug/L	0.209	3	15	1212	2	KED
|	**Cu**	**63**	**5.297**	ug/L	0.107	2	198	20376	2	KED
|	**Cu**	**65**	**5.293**	ug/L	0.035	0	107	10457	1	KED
|	**Zn**	**66**	**17.411**	ug/L	0.199	1	67	8225	1	KED
|	**Zn**	**67**	**16.806**	ug/L	0.629	3	15	1296	2	KED
⌊	**As**	**75**	**6.246**	ug/L	0.164	2	4	1424	1	KED
	Y	**89**		ug/L			53627	53132	2	Standard
	Kr	**83**		ug/L			34	51	45	Standard
⌈>	**In-1**	**115**		ug/L			7114	5936	1	KED
|	**Cd**	**111**	**5.302**	ug/L	0.017	0	2	1142	1	KED
⌊	**Cd**	**114**	**5.212**	ug/L	0.091	1	0	2887	3	KED
⌈>	**In**	**115**		ug/L			522018	478703	2	Standard
⌊	**Ag**	**107**	**4.852**	ug/L	0.119	2	24	76442	4	Standard
⌈>	**Tb**	**159**		ug/L			194588	185283	0	Standard
⌊	**Pb**	**208**	**5.696**	ug/L	0.049	0	589	505647	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-MSD3
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:17:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	26543	2	Standard
⌈>	**Sc**	**45**		ug/L			579638	587593	2	Standard
|	**Cr**	**52**	**4.909**	ug/L	0.087	1	10138	84614	2	Standard
⌊	**Cr**	**53**	**4.941**	ug/L	0.054	1	92	8855	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	29168	1	KED
|	**Ni**	**60**	**5.411**	ug/L	0.139	2	97	7671	2	KED
|	**Ni**	**62**	**5.517**	ug/L	0.086	1	15	1253	1	KED
|	**Cu**	**63**	**5.427**	ug/L	0.106	1	198	21457	1	KED
|	**Cu**	**65**	**5.392**	ug/L	0.133	2	107	10947	1	KED
|	**Zn**	**66**	**17.608**	ug/L	0.518	2	67	8549	1	KED
|	**Zn**	**67**	**16.790**	ug/L	0.367	2	15	1332	3	KED
⌊	**As**	**75**	**6.344**	ug/L	0.141	2	4	1487	0	KED
	Y	**89**		ug/L			53627	54403	3	Standard
	Kr	**83**		ug/L			34	43	19	Standard
⌈>	**In-1**	**115**		ug/L			7114	6065	1	KED
|	**Cd**	**111**	**5.441**	ug/L	0.071	1	2	1198	1	KED
⌊	**Cd**	**114**	**5.437**	ug/L	0.220	4	0	3075	2	KED
⌈>	**In**	**115**		ug/L			522018	480828	1	Standard
⌊	**Ag**	**107**	**4.983**	ug/L	0.032	0	24	78821	0	Standard
⌈>	**Tb**	**159**		ug/L			194588	183019	2	Standard
⌊	**Pb**	**208**	**5.992**	ug/L	0.152	2	589	525164	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:21:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21528	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	504587	2	Standard
|	**Cr**	**52**	**-0.049**	ug/L	0.013	26	10138	8189	4	Standard
⌊	**Cr**	**53**	**-0.001**	ug/L	0.010	914	92	78	20	Standard
⌈>	**Ge**	**72**		ug/L			33052	29052	2	KED
|	**Ni**	**60**	**-0.027**	ug/L	0.002	9	97	48	6	KED
|	**Ni**	**62**	**-0.020**	ug/L	0.008	39	15	9	20	KED
|	**Cu**	**63**	**-0.035**	ug/L	0.001	4	198	38	13	KED
|	**Cu**	**65**	**-0.041**	ug/L	0.002	5	107	12	31	KED
|	**Zn**	**66**	**-0.064**	ug/L	0.013	20	67	28	24	KED
|	**Zn**	**67**	**-0.122**	ug/L	0.028	22	15	4	49	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.008	108	4	2	81	KED
	Y	**89**		ug/L			53627	49637	1	Standard
	Kr	**83**		ug/L			34	38	20	Standard
⌈>	**In-1**	**115**		ug/L			7114	6027	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	226	2	1	114	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	394	0	0	180	KED
⌈>	**In**	**115**		ug/L			522018	479515	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	299	24	20	32	Standard
⌈>	**Tb**	**159**		ug/L			194588	179966	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	6	589	288	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:26:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21819	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	537241	1	Standard
|	**Cr**	**52**	**48.713**	ug/L	0.418	0	10138	683894	1	Standard
⌊	**Cr**	**53**	**47.716**	ug/L	0.941	1	92	77447	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	28563	3	KED
|	**Ni**	**60**	**50.357**	ug/L	1.050	2	97	69185	1	KED
|	**Ni**	**62**	**49.360**	ug/L	2.641	5	15	10859	2	KED
|	**Cu**	**63**	**50.236**	ug/L	1.591	3	198	192937	0	KED
|	**Cu**	**65**	**49.314**	ug/L	2.387	4	107	97191	1	KED
|	**Zn**	**66**	**51.840**	ug/L	1.972	3	67	24518	1	KED
|	**Zn**	**67**	**50.726**	ug/L	2.388	4	15	3909	3	KED
⌊	**As**	**75**	**49.845**	ug/L	2.221	4	4	11411	2	KED
	Y	**89**		ug/L			53627	50469	1	Standard
	Kr	**83**		ug/L			34	51	9	Standard
⌈>	**In-1**	**115**		ug/L			7114	6035	1	KED
|	**Cd**	**111**	**50.348**	ug/L	1.040	2	2	11017	1	KED
⌊	**Cd**	**114**	**49.801**	ug/L	1.740	3	0	28030	2	KED
⌈>	**In**	**115**		ug/L			522018	483754	2	Standard
⌊	**Ag**	**107**	**45.747**	ug/L	1.559	3	24	727585	1	Standard
⌈>	**Tb**	**159**		ug/L			194588	186391	1	Standard
⌊	**Pb**	**208**	**55.271**	ug/L	0.646	1	589	4930661	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:33:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21106	1	Standard
⌈>	**Sc**	**45**		ug/L			579638	522344	0	Standard
|	**Cr**	**52**	**-0.061**	ug/L	0.019	31	10138	8310	2	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.004	59	92	73	8	Standard
⌈>	**Ge**	**72**		ug/L			33052	29478	2	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.009	77	97	69	16	KED
|	**Ni**	**62**	**0.005**	ug/L	0.010	201	15	15	12	KED
|	**Cu**	**63**	**-0.037**	ug/L	0.002	5	198	30	27	KED
|	**Cu**	**65**	**-0.038**	ug/L	0.004	9	107	18	41	KED
|	**Zn**	**66**	**-0.070**	ug/L	0.007	9	67	26	15	KED
|	**Zn**	**67**	**-0.130**	ug/L	0.025	19	15	3	50	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.003	62	4	2	26	KED
	Y	**89**		ug/L			53627	49249	1	Standard
	Kr	**83**		ug/L			34	43	24	Standard
⌈>	**In-1**	**115**		ug/L			7114	6244	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.009	593	2	1	124	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	251	0	1	184	KED
⌈>	**In**	**115**		ug/L			522018	496790	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	101	24	40	40	Standard
⌈>	**Tb**	**159**		ug/L			194588	181353	2	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	9	589	283	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:37:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				21210	4	Standard
⌈>	**Sc**	**45**		ug/L				512571	4	Standard
|	**Cr**	**52**		ug/L				7952	2	Standard
⌊	**Cr**	**53**		ug/L				75	19	Standard
⌈>	**Ge**	**72**		ug/L				28784	1	KED
|	**Ni**	**60**		ug/L				75	11	KED
|	**Ni**	**62**		ug/L				12	56	KED
|	**Cu**	**63**		ug/L				53	8	KED
|	**Cu**	**65**		ug/L				25	37	KED
|	**Zn**	**66**		ug/L				52	8	KED
|	**Zn**	**67**		ug/L				8	13	KED
⌊	**As**	**75**		ug/L				3	33	KED
	Y	**89**		ug/L				50088	0	Standard
	Kr	**83**		ug/L				44	32	Standard
⌈>	**In-1**	**115**		ug/L				6034	0	KED
|	**Cd**	**111**		ug/L				1	34	KED
⌊	**Cd**	**114**		ug/L				1	102	KED
⌈>	**In**	**115**		ug/L				486697	0	Standard
⌊	**Ag**	**107**		ug/L				29	39	Standard
⌈>	**Tb**	**159**		ug/L				178618	1	Standard
⌊	**Pb**	**208**		ug/L				534	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:42:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	22837	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	535240	2	Standard
|	**Cr**	**52**	**49.491**	ug/L	0.986	1	7952	690998	3	Standard
⌊	**Cr**	**53**	**48.754**	ug/L	0.390	0	75	78819	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29525	1	KED
|	**Ni**	**60**	**50.055**	ug/L	0.415	0	75	71110	0	KED
|	**Ni**	**62**	**49.979**	ug/L	1.344	2	12	11377	1	KED
|	**Cu**	**63**	**50.840**	ug/L	1.123	2	53	201840	1	KED
|	**Cu**	**65**	**49.659**	ug/L	0.970	1	25	101204	1	KED
|	**Zn**	**66**	**50.552**	ug/L	0.931	1	52	24728	0	KED
|	**Zn**	**67**	**49.626**	ug/L	2.134	4	8	3950	3	KED
⌊	**As**	**75**	**48.478**	ug/L	0.311	0	3	11483	0	KED
	Y	**89**		ug/L			50088	50850	3	Standard
	Kr	**83**		ug/L			44	46	16	Standard
⌈>	**In-1**	**115**		ug/L			6034	6252	1	KED
|	**Cd**	**111**	**49.549**	ug/L	0.377	0	1	11233	2	KED
⌊	**Cd**	**114**	**50.157**	ug/L	0.178	0	1	29252	1	KED
⌈>	**In**	**115**		ug/L			486697	479759	2	Standard
⌊	**Ag**	**107**	**46.667**	ug/L	0.707	1	29	736349	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	186665	1	Standard
⌊	**Pb**	**208**	**55.001**	ug/L	1.042	1	534	4913677	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:49:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	21997	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	533122	1	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.006	43	7952	8458	2	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.006	71	75	64	15	Standard
⌈>	**Ge**	**72**		ug/L			28784	29712	0	KED
|	**Ni**	**60**	**-0.021**	ug/L	0.008	39	75	48	24	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.000	0	12	7	0	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	17	53	36	9	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.002	41	25	17	22	KED
|	**Zn**	**66**	**-0.068**	ug/L	0.025	37	52	20	59	KED
|	**Zn**	**67**	**-0.059**	ug/L	0.041	70	8	3	86	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	212	3	3	37	KED
	Y	**89**		ug/L			50088	49727	2	Standard
	Kr	**83**		ug/L			44	43	24	Standard
⌈>	**In-1**	**115**		ug/L			6034	6050	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.003	57	1	0	86	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	6243	1	1	192	KED
⌈>	**In**	**115**		ug/L			486697	490182	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	61	29	45	23	Standard
⌈>	**Tb**	**159**		ug/L			178618	181329	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.001	22	534	307	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:53:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	41125	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	553406	2	Standard
|	**Cr**	**52**	**0.370**	ug/L	0.014	3	7952	13862	0	Standard
⌊	**Cr**	**53**	**0.421**	ug/L	0.015	3	75	784	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	29957	1	KED
|	**Ni**	**60**	**0.870**	ug/L	0.040	4	75	1330	3	KED
|	**Ni**	**62**	**0.872**	ug/L	0.054	6	12	214	6	KED
|	**Cu**	**63**	**2.805**	ug/L	0.089	3	53	11350	2	KED
|	**Cu**	**65**	**2.680**	ug/L	0.062	2	25	5568	2	KED
|	**Zn**	**66**	**10.735**	ug/L	0.292	2	52	5370	1	KED
|	**Zn**	**67**	**10.167**	ug/L	0.647	6	8	827	5	KED
⌊	**As**	**75**	**1.857**	ug/L	0.005	0	3	450	1	KED
	Y	**89**		ug/L			50088	52074	0	Standard
	Kr	**83**		ug/L			44	43	2	Standard
⌈>	**In-1**	**115**		ug/L			6034	6279	0	KED
|	**Cd**	**111**	**0.015**	ug/L	0.005	32	1	5	21	KED
⌊	**Cd**	**114**	**0.018**	ug/L	0.004	21	1	11	19	KED
⌈>	**In**	**115**		ug/L			486697	500655	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	40	29	55	19	Standard
⌈>	**Tb**	**159**		ug/L			178618	186090	1	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	534	4388	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:58:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	37818	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	620959	3	Standard
|	**Cr**	**52**	**0.750**	ug/L	0.035	4	7952	21630	0	Standard
⌊	**Cr**	**53**	**0.850**	ug/L	0.037	4	75	1682	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	28362	2	KED
|	**Ni**	**60**	**1.873**	ug/L	0.124	6	75	2627	7	KED
|	**Ni**	**62**	**2.080**	ug/L	0.104	5	12	466	2	KED
|	**Cu**	**63**	**6.207**	ug/L	0.041	0	53	23720	1	KED
|	**Cu**	**65**	**5.944**	ug/L	0.210	3	25	11654	1	KED
|	**Zn**	**66**	**13.939**	ug/L	0.181	1	52	6588	1	KED
|	**Zn**	**67**	**13.056**	ug/L	0.606	4	8	1005	6	KED
⌊	**As**	**75**	**13.044**	ug/L	0.191	1	3	2970	0	KED
	Y	**89**		ug/L			50088	52960	3	Standard
	Kr	**83**		ug/L			44	37	12	Standard
⌈>	**In-1**	**115**		ug/L			6034	5947	1	KED
|	**Cd**	**111**	**0.186**	ug/L	0.014	7	1	41	5	KED
⌊	**Cd**	**114**	**0.208**	ug/L	0.016	7	1	116	6	KED
⌈>	**In**	**115**		ug/L			486697	479901	1	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.001	8	29	218	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	184864	1	Standard
⌊	**Pb**	**208**	**0.644**	ug/L	0.011	1	534	57486	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:02:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	35079	4	Standard
⌈>	Sc	45		ug/L			512571	617244	2	Standard
|	Cr	52	0.125	ug/L	0.020	15	7952	11566	2	Standard
⌊	Cr	53	0.244	ug/L	0.006	2	75	546	4	Standard
⌈>	Ge	72		ug/L			28784	27855	1	KED
|	Ni	60	0.829	ug/L	0.066	7	75	1181	6	KED
|	Ni	62	0.946	ug/L	0.098	10	12	215	9	KED
|	Cu	63	3.890	ug/L	0.068	1	53	14619	1	KED
|	Cu	65	3.923	ug/L	0.106	2	25	7565	1	KED
|	Zn	66	3.697	ug/L	0.051	1	52	1753	2	KED
|	Zn	67	3.953	ug/L	0.258	6	8	304	5	KED
⌊	As	75	20.959	ug/L	0.676	3	3	4684	1	KED
	Y	89		ug/L			50088	50382	1	Standard
	Kr	83		ug/L			44	40	12	Standard
⌈>	In-1	115		ug/L			6034	5808	2	KED
|	Cd	111	0.055	ug/L	0.019	34	1	13	27	KED
⌊	Cd	114	0.072	ug/L	0.029	40	1	40	39	KED
⌈>	In	115		ug/L			486697	470446	1	Standard
⌊	Ag	107	0.006	ug/L	0.000	7	29	123	6	Standard
⌈>	Tb	159		ug/L			178618	183524	1	Standard
⌊	Pb	208	0.140	ug/L	0.003	1	534	12872	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:07:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	36815	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	612003	2	Standard
|	**Cr**	**52**	**0.190**	ug/L	0.013	7	7952	12489	1	Standard
⌊	**Cr**	**53**	**0.324**	ug/L	0.013	4	75	687	5	Standard
⌈>	**Ge**	**72**		ug/L			28784	27936	0	KED
|	**Ni**	**60**	**0.814**	ug/L	0.060	7	75	1165	6	KED
|	**Ni**	**62**	**0.884**	ug/L	0.083	9	12	202	8	KED
|	**Cu**	**63**	**3.939**	ug/L	0.170	4	53	14843	3	KED
|	**Cu**	**65**	**3.916**	ug/L	0.044	1	25	7575	0	KED
|	**Zn**	**66**	**4.135**	ug/L	0.215	5	52	1961	5	KED
|	**Zn**	**67**	**4.277**	ug/L	0.228	5	8	329	4	KED
⌊	**As**	**75**	**20.891**	ug/L	0.311	1	3	4684	0	KED
	Y	**89**		ug/L			50088	50782	1	Standard
	Kr	**83**		ug/L			44	56	10	Standard
⌈>	**In-1**	**115**		ug/L			6034	5897	1	KED
|	**Cd**	**111**	**0.072**	ug/L	0.012	16	1	16	14	KED
⌊	**Cd**	**114**	**0.084**	ug/L	0.026	31	1	47	31	KED
⌈>	**In**	**115**		ug/L			486697	476512	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	21	29	111	17	Standard
⌈>	**Tb**	**159**		ug/L			178618	184815	0	Standard
⌊	**Pb**	**208**	**0.113**	ug/L	0.001	0	534	10555	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-12
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:11:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	37614	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	541924	1	Standard
|	**Cr**	**52**	**0.444**	ug/L	0.005	1	7952	14603	1	Standard
⌊	**Cr**	**53**	**0.458**	ug/L	0.009	2	75	828	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	29366	1	KED
|	**Ni**	**60**	**0.438**	ug/L	0.038	8	75	694	6	KED
|	**Ni**	**62**	**0.467**	ug/L	0.046	9	12	118	9	KED
|	**Cu**	**63**	**4.007**	ug/L	0.099	2	53	15872	0	KED
|	**Cu**	**65**	**3.821**	ug/L	0.120	3	25	7768	2	KED
|	**Zn**	**66**	**15.485**	ug/L	0.769	4	52	7568	3	KED
|	**Zn**	**67**	**14.598**	ug/L	0.300	2	8	1161	2	KED
⌊	**As**	**75**	**1.412**	ug/L	0.061	4	3	336	5	KED
	Y	**89**		ug/L			50088	54650	2	Standard
	Kr	**83**		ug/L			44	40	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6075	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.008	134	1	2	57	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.010	194	1	4	138	KED
⌈>	**In**	**115**		ug/L			486697	485971	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	66	29	45	23	Standard
⌈>	**Tb**	**159**		ug/L			178618	187970	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	3	534	2930	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-20
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:16:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	40097	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	603458	1	Standard
|	**Cr**	**52**	**0.809**	ug/L	0.013	1	7952	21936	1	Standard
⌊	**Cr**	**53**	**0.815**	ug/L	0.006	0	75	1573	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	28977	2	KED
|	**Ni**	**60**	**1.925**	ug/L	0.145	7	75	2754	5	KED
|	**Ni**	**62**	**1.888**	ug/L	0.139	7	12	433	5	KED
|	**Cu**	**63**	**8.198**	ug/L	0.187	2	53	31985	1	KED
|	**Cu**	**65**	**8.011**	ug/L	0.219	2	25	16040	1	KED
|	**Zn**	**66**	**2.547**	ug/L	0.146	5	52	1273	5	KED
|	**Zn**	**67**	**2.986**	ug/L	0.210	7	8	241	8	KED
⌊	**As**	**75**	**2.558**	ug/L	0.105	4	3	598	5	KED
	Y	**89**		ug/L			50088	93417	2	Standard
	Kr	**83**		ug/L			44	48	4	Standard
⌈>	**In-1**	**115**		ug/L			6034	6056	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	303	1	1	50	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.008	56	1	8	49	KED
⌈>	**In**	**115**		ug/L			486697	499578	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.001	8	29	184	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	188351	0	Standard
⌊	**Pb**	**208**	**0.237**	ug/L	0.005	1	534	21965	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:20:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	41033	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	600732	2	Standard
|	**Cr**	**52**	**0.798**	ug/L	0.026	3	7952	21676	3	Standard
⌊	**Cr**	**53**	**0.812**	ug/L	0.040	4	75	1561	6	Standard
⌈>	**Ge**	**72**		ug/L			28784	29419	1	KED
|	**Ni**	**60**	**1.815**	ug/L	0.049	2	75	2643	0	KED
|	**Ni**	**62**	**1.980**	ug/L	0.134	6	12	461	6	KED
|	**Cu**	**63**	**8.139**	ug/L	0.123	1	53	32242	0	KED
|	**Cu**	**65**	**8.017**	ug/L	0.020	0	25	16304	1	KED
|	**Zn**	**66**	**2.465**	ug/L	0.142	5	52	1252	4	KED
|	**Zn**	**67**	**2.747**	ug/L	0.140	5	8	226	6	KED
⌊	**As**	**75**	**2.471**	ug/L	0.116	4	3	586	2	KED
	Y	**89**		ug/L			50088	90128	3	Standard
	Kr	**83**		ug/L			44	61	25	Standard
⌈>	**In-1**	**115**		ug/L			6034	6203	0	KED
|	**Cd**	**111**	**0.010**	ug/L	0.007	76	1	3	43	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.004	42	1	6	34	KED
⌈>	**In**	**115**		ug/L			486697	491241	1	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	9	29	165	7	Standard
⌈>	**Tb**	**159**		ug/L			178618	190226	0	Standard
⌊	**Pb**	**208**	**0.240**	ug/L	0.006	2	534	22402	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:24:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	39760	3	Standard
⌈>	Sc	45		ug/L			512571	584445	1	Standard
|	Cr	52	24.504	ug/L	0.768	3	7952	378151	3	Standard
⌊	Cr	53	24.330	ug/L	0.333	1	75	42999	2	Standard
⌈>	Ge	72		ug/L			28784	29130	0	KED
|	Ni	60	29.233	ug/L	0.300	1	75	41006	0	KED
|	Ni	62	28.687	ug/L	1.279	4	12	6447	3	KED
|	Cu	63	35.588	ug/L	0.038	0	53	139434	0	KED
|	Cu	65	35.292	ug/L	0.441	1	25	70972	0	KED
|	Zn	66	85.618	ug/L	1.238	1	52	41287	0	KED
|	Zn	67	85.737	ug/L	1.395	1	8	6729	1	KED
⌊	As	75	28.239	ug/L	0.482	1	3	6601	0	KED
	Y	89		ug/L			50088	90513	2	Standard
	Kr	83		ug/L			44	48	20	Standard
⌈>	In-1	115		ug/L			6034	6109	2	KED
|	Cd	111	26.780	ug/L	0.465	1	1	5932	0	KED
⌊	Cd	114	26.945	ug/L	0.773	2	1	15357	3	KED
⌈>	In	115		ug/L			486697	492130	1	Standard
⌊	Ag	107	24.738	ug/L	0.495	2	29	400420	2	Standard
⌈>	Tb	159		ug/L			178618	191727	1	Standard
⌊	Pb	208	29.314	ug/L	0.364	1	534	2689958	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:29:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	38779	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	593612	0	Standard
|	**Cr**	**52**	**24.128**	ug/L	0.502	2	7952	378325	1	Standard
⌊	**Cr**	**53**	**23.584**	ug/L	0.272	1	75	42336	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29134	1	KED
|	**Ni**	**60**	**28.208**	ug/L	0.262	0	75	39574	1	KED
|	**Ni**	**62**	**28.944**	ug/L	0.377	1	12	6506	1	KED
|	**Cu**	**63**	**35.573**	ug/L	0.102	0	53	139393	1	KED
|	**Cu**	**65**	**35.339**	ug/L	0.595	1	25	71081	2	KED
|	**Zn**	**66**	**89.540**	ug/L	0.536	0	52	43185	2	KED
|	**Zn**	**67**	**85.104**	ug/L	1.844	2	8	6679	0	KED
⌊	**As**	**75**	**27.745**	ug/L	0.236	0	3	6486	1	KED
	Y	**89**		ug/L			50088	91556	2	Standard
	Kr	**83**		ug/L			44	59	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6041	2	KED
|	**Cd**	**111**	**26.686**	ug/L	0.564	2	1	5845	0	KED
⌊	**Cd**	**114**	**26.924**	ug/L	1.283	4	1	15164	2	KED
⌈>	**In**	**115**		ug/L			486697	492919	2	Standard
⌊	**Ag**	**107**	**24.337**	ug/L	1.058	4	29	394333	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	189477	1	Standard
⌊	**Pb**	**208**	**29.445**	ug/L	0.796	2	534	2669694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:33:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23042	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	504065	2	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.003	14	7952	8096	2	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.004	98	75	80	8	Standard
⌈>	**Ge**	**72**		ug/L			28784	29215	1	KED
|	**Ni**	**60**	**-0.017**	ug/L	0.006	36	75	52	16	KED
|	**Ni**	**62**	**-0.032**	ug/L	0.022	68	12	5	88	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	43	53	40	17	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	230	25	22	39	KED
|	**Zn**	**66**	**-0.055**	ug/L	0.018	32	52	26	31	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.028	158	8	6	31	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.001	16	3	2	12	KED
	Y	**89**		ug/L			50088	47701	0	Standard
	Kr	**83**		ug/L			44	36	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6006	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.009	596	1	1	100	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.005	220	1	2	118	KED
⌈>	**In**	**115**		ug/L			486697	485981	4	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.002	91	29	71	52	Standard
⌈>	**Tb**	**159**		ug/L			178618	179589	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.006	1138	534	580	82	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:38:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23250	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	528228	1	Standard
|	**Cr**	**52**	**49.500**	ug/L	0.901	1	7952	681993	1	Standard
⌊	**Cr**	**53**	**48.349**	ug/L	0.150	0	75	77149	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	30008	0	KED
|	**Ni**	**60**	**48.196**	ug/L	0.665	1	75	69599	1	KED
|	**Ni**	**62**	**47.638**	ug/L	0.836	1	12	11023	1	KED
|	**Cu**	**63**	**48.752**	ug/L	0.851	1	53	196743	1	KED
|	**Cu**	**65**	**49.349**	ug/L	0.352	0	25	102234	1	KED
|	**Zn**	**66**	**49.407**	ug/L	0.678	1	52	24567	0	KED
|	**Zn**	**67**	**49.504**	ug/L	0.874	1	8	4006	1	KED
⌊	**As**	**75**	**48.304**	ug/L	0.703	1	3	11630	1	KED
	Y	**89**		ug/L			50088	50276	3	Standard
	Kr	**83**		ug/L			44	66	8	Standard
⌈>	**In-1**	**115**		ug/L			6034	6120	0	KED
|	**Cd**	**111**	**51.184**	ug/L	0.659	1	1	11358	0	KED
⌊	**Cd**	**114**	**51.083**	ug/L	0.638	1	1	29165	1	KED
⌈>	**In**	**115**		ug/L			486697	478764	0	Standard
⌊	**Ag**	**107**	**46.724**	ug/L	0.422	0	29	735777	0	Standard
⌈>	**Tb**	**159**		ug/L			178618	184982	1	Standard
⌊	**Pb**	**208**	**55.526**	ug/L	1.157	2	534	4914953	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:45:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	22826	1	Standard
⌈>	**Sc**	**45**		ug/L			512571	514605	2	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.008	138	7952	7911	3	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.004	46	75	63	11	Standard
⌈>	**Ge**	**72**		ug/L			28784	29448	0	KED
|	**Ni**	**60**	**-0.017**	ug/L	0.016	91	75	53	40	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.017	238	12	11	33	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.007	195	53	40	68	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	21	25	20	5	KED
|	**Zn**	**66**	**-0.051**	ug/L	0.018	36	52	29	30	KED
|	**Zn**	**67**	**-0.082**	ug/L	0.024	29	8	1	100	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	98	3	5	26	KED
	Y	**89**		ug/L			50088	48607	1	Standard
	Kr	**83**		ug/L			44	52	12	Standard
⌈>	**In-1**	**115**		ug/L			6034	6091	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	139	1	0	100	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	90	1	2	45	KED
⌈>	**In**	**115**		ug/L			486697	473300	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	11	29	50	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	179990	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.001	15	534	251	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-14
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:50:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	40592	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	625583	3	Standard
|	**Cr**	**52**	**0.332**	ug/L	0.007	1	7952	15056	3	Standard
⌊	**Cr**	**53**	**1.924**	ug/L	0.015	0	75	3723	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	28463	2	KED
|	**Ni**	**60**	**1.957**	ug/L	0.061	3	75	2750	1	KED
|	**Ni**	**62**	**2.020**	ug/L	0.030	1	12	455	1	KED
|	**Cu**	**63**	**9.385**	ug/L	0.272	2	53	35960	2	KED
|	**Cu**	**65**	**9.404**	ug/L	0.188	2	25	18493	0	KED
|	**Zn**	**66**	**10.817**	ug/L	0.187	1	52	5141	1	KED
|	**Zn**	**67**	**11.789**	ug/L	0.263	2	8	911	2	KED
⌊	**As**	**75**	**20.812**	ug/L	0.559	2	3	4753	0	KED
	Y	**89**		ug/L			50088	53972	1	Standard
	Kr	**83**		ug/L			44	42	15	Standard
⌈>	**In-1**	**115**		ug/L			6034	6071	0	KED
|	**Cd**	**111**	**0.141**	ug/L	0.013	8	1	32	8	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.004	4	1	57	5	KED
⌈>	**In**	**115**		ug/L			486697	454002	2	Standard
⌊	**Ag**	**107**	**0.026**	ug/L	0.002	7	29	414	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	181226	2	Standard
⌊	**Pb**	**208**	**0.990**	ug/L	0.014	1	534	86358	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-16
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:54:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	43420	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	546125	1	Standard
|	**Cr**	**52**	**0.647**	ug/L	0.033	5	7952	17577	4	Standard
⌊	**Cr**	**53**	**0.675**	ug/L	0.033	4	75	1193	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	30240	0	KED
|	**Ni**	**60**	**0.675**	ug/L	0.035	5	75	1059	4	KED
|	**Ni**	**62**	**0.602**	ug/L	0.023	3	12	153	3	KED
|	**Cu**	**63**	**5.711**	ug/L	0.106	1	53	23274	1	KED
|	**Cu**	**65**	**5.569**	ug/L	0.142	2	25	11649	2	KED
|	**Zn**	**66**	**29.892**	ug/L	0.254	0	52	15000	0	KED
|	**Zn**	**67**	**28.725**	ug/L	0.734	2	8	2346	2	KED
⌊	**As**	**75**	**3.914**	ug/L	0.061	1	3	953	1	KED
	Y	**89**		ug/L			50088	54733	0	Standard
	Kr	**83**		ug/L			44	45	8	Standard
⌈>	**In-1**	**115**		ug/L			6034	6139	2	KED
|	**Cd**	**111**	**0.037**	ug/L	0.002	5	1	9	5	KED
⌊	**Cd**	**114**	**0.014**	ug/L	0.004	28	1	8	22	KED
⌈>	**In**	**115**		ug/L			486697	497849	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	25	29	85	15	Standard
⌈>	**Tb**	**159**		ug/L			178618	190840	1	Standard
⌊	**Pb**	**208**	**0.300**	ug/L	0.005	1	534	27994	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-18
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:58:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	41506	5	Standard
⌈>	Sc	45		ug/L			512571	563971	1	Standard
|	Cr	52	0.879	ug/L	0.056	6	7952	21514	2	Standard
⌊	Cr	53	0.921	ug/L	0.009	1	75	1650	1	Standard
⌈>	Ge	72		ug/L			28784	29591	0	KED
|	Ni	60	0.841	ug/L	0.034	4	75	1274	4	KED
|	Ni	62	0.988	ug/L	0.174	17	12	238	16	KED
|	Cu	63	3.718	ug/L	0.097	2	53	14845	2	KED
|	Cu	65	3.603	ug/L	0.056	1	25	7384	1	KED
|	Zn	66	16.875	ug/L	0.347	2	52	8310	1	KED
|	Zn	67	16.131	ug/L	1.579	9	8	1292	9	KED
⌊	As	75	1.797	ug/L	0.041	2	3	430	1	KED
	Y	89		ug/L			50088	56214	2	Standard
	Kr	83		ug/L			44	30	21	Standard
⌈>	In-1	115		ug/L			6034	6314	4	KED
|	Cd	111	0.008	ug/L	0.006	69	1	3	31	KED
⌊	Cd	114	0.011	ug/L	0.006	60	1	7	52	KED
⌈>	In	115		ug/L			486697	482029	1	Standard
⌊	Ag	107	0.005	ug/L	0.001	24	29	115	18	Standard
⌈>	Tb	159		ug/L			178618	192728	0	Standard
⌊	Pb	208	0.200	ug/L	0.003	1	534	19033	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:03:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35873	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	619987	1	Standard
|	**Cr**	**52**	**1.104**	ug/L	0.004	0	7952	27252	2	Standard
⌊	**Cr**	**53**	**1.258**	ug/L	0.032	2	75	2444	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	29585	1	KED
|	**Ni**	**60**	**1.906**	ug/L	0.066	3	75	2788	4	KED
|	**Ni**	**62**	**1.874**	ug/L	0.068	3	12	440	2	KED
|	**Cu**	**63**	**11.407**	ug/L	0.361	3	53	45418	2	KED
|	**Cu**	**65**	**10.967**	ug/L	0.111	1	25	22416	0	KED
|	**Zn**	**66**	**60.525**	ug/L	0.205	0	52	29659	1	KED
|	**Zn**	**67**	**58.668**	ug/L	1.256	2	8	4678	1	KED
⌊	**As**	**75**	**14.694**	ug/L	0.332	2	3	3490	1	KED
	Y	**89**		ug/L			50088	54055	0	Standard
	Kr	**83**		ug/L			44	48	13	Standard
⌈>	**In-1**	**115**		ug/L			6034	6021	0	KED
|	**Cd**	**111**	**0.100**	ug/L	0.018	17	1	23	16	KED
⌊	**Cd**	**114**	**0.090**	ug/L	0.014	15	1	51	15	KED
⌈>	**In**	**115**		ug/L			486697	482814	0	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	29	575	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	185868	0	Standard
⌊	**Pb**	**208**	**1.077**	ug/L	0.010	0	534	96390	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:07:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	43263	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	531042	1	Standard
|	**Cr**	**52**	**0.707**	ug/L	0.019	2	7952	17913	1	Standard
⌊	**Cr**	**53**	**0.767**	ug/L	0.021	2	75	1306	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	29609	0	KED
|	**Ni**	**60**	**0.786**	ug/L	0.054	6	75	1195	5	KED
|	**Ni**	**62**	**0.839**	ug/L	0.050	5	12	204	5	KED
|	**Cu**	**63**	**5.822**	ug/L	0.067	1	53	23229	0	KED
|	**Cu**	**65**	**5.535**	ug/L	0.116	2	25	11336	1	KED
|	**Zn**	**66**	**13.078**	ug/L	0.235	1	52	6456	0	KED
|	**Zn**	**67**	**12.540**	ug/L	0.549	4	8	1007	4	KED
⌊	**As**	**75**	**1.716**	ug/L	0.082	4	3	411	5	KED
	Y	**89**		ug/L			50088	53989	0	Standard
	Kr	**83**		ug/L			44	57	29	Standard
⌈>	**In-1**	**115**		ug/L			6034	6197	2	KED
|	**Cd**	**111**	**0.015**	ug/L	0.005	29	1	5	21	KED
⌊	**Cd**	**114**	**0.014**	ug/L	0.014	94	1	9	80	KED
⌈>	**In**	**115**		ug/L			486697	493755	1	Standard
⌊	**Ag**	**107**	**0.089**	ug/L	0.007	7	29	1466	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	188017	0	Standard
⌊	**Pb**	**208**	**0.305**	ug/L	0.004	1	534	28030	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:12:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	36616	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	609800	2	Standard
|	**Cr**	**52**	**0.487**	ug/L	0.028	5	7952	17107	3	Standard
⌊	**Cr**	**53**	**0.596**	ug/L	0.001	0	75	1187	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	28812	2	KED
|	**Ni**	**60**	**1.347**	ug/L	0.050	3	75	1939	0	KED
|	**Ni**	**62**	**1.268**	ug/L	0.098	7	12	293	6	KED
|	**Cu**	**63**	**10.734**	ug/L	0.298	2	53	41615	0	KED
|	**Cu**	**65**	**10.264**	ug/L	0.203	1	25	20429	0	KED
|	**Zn**	**66**	**7.755**	ug/L	0.118	1	52	3746	1	KED
|	**Zn**	**67**	**8.262**	ug/L	0.482	5	8	648	3	KED
⌊	**As**	**75**	**27.631**	ug/L	0.581	2	3	6386	0	KED
	Y	**89**		ug/L			50088	52863	1	Standard
	Kr	**83**		ug/L			44	45	7	Standard
⌈>	**In-1**	**115**		ug/L			6034	5973	0	KED
|	**Cd**	**111**	**0.142**	ug/L	0.021	14	1	32	13	KED
⌊	**Cd**	**114**	**0.136**	ug/L	0.023	17	1	76	16	KED
⌈>	**In**	**115**		ug/L			486697	471762	1	Standard
⌊	**Ag**	**107**	**0.032**	ug/L	0.001	3	29	520	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	184829	1	Standard
⌊	**Pb**	**208**	**2.682**	ug/L	0.056	2	534	237695	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:16:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35157	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	618826	2	Standard
|	**Cr**	**52**	**0.520**	ug/L	0.025	4	7952	17896	2	Standard
⌊	**Cr**	**53**	**0.627**	ug/L	0.026	4	75	1260	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	28728	0	KED
|	**Ni**	**60**	**1.391**	ug/L	0.040	2	75	1996	3	KED
|	**Ni**	**62**	**1.401**	ug/L	0.054	3	12	322	2	KED
|	**Cu**	**63**	**10.972**	ug/L	0.175	1	53	42431	1	KED
|	**Cu**	**65**	**10.761**	ug/L	0.087	0	25	21361	0	KED
|	**Zn**	**66**	**7.901**	ug/L	0.123	1	52	3805	2	KED
|	**Zn**	**67**	**8.117**	ug/L	0.560	6	8	635	6	KED
⌊	**As**	**75**	**29.103**	ug/L	0.478	1	3	6709	1	KED
	Y	**89**		ug/L			50088	55720	3	Standard
	Kr	**83**		ug/L			44	47	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6067	2	KED
|	**Cd**	**111**	**0.152**	ug/L	0.036	23	1	35	24	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.026	16	1	88	18	KED
⌈>	**In**	**115**		ug/L			486697	464844	1	Standard
⌊	**Ag**	**107**	**0.031**	ug/L	0.002	7	29	503	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	185300	1	Standard
⌊	**Pb**	**208**	**2.712**	ug/L	0.064	2	534	240965	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-15
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:20:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	39624	4	Standard
>	Sc	45		ug/L			512571	537265	2	Standard
	Cr	52	1.179	ug/L	0.044	3	7952	24668	3	Standard
	Cr	53	1.177	ug/L	0.016	1	75	1987	3	Standard
>	Ge	72		ug/L			28784	29689	1	KED
	Ni	60	1.227	ug/L	0.038	3	75	1828	1	KED
	Ni	62	1.280	ug/L	0.124	9	12	306	10	KED
	Cu	63	25.781	ug/L	1.054	4	53	102918	2	KED
	Cu	65	25.054	ug/L	0.251	1	25	51356	0	KED
	Zn	66	49.987	ug/L	1.395	2	52	24584	1	KED
	Zn	67	48.808	ug/L	1.051	2	8	3907	0	KED
	As	75	7.808	ug/L	0.282	3	3	1862	2	KED
	Y	89		ug/L			50088	56736	3	Standard
	Kr	83		ug/L			44	47	12	Standard
>	In-1	115		ug/L			6034	6201	2	KED
	Cd	111	0.093	ug/L	0.012	13	1	22	9	KED
	Cd	114	0.076	ug/L	0.022	28	1	44	25	KED
>	In	115		ug/L			486697	493967	0	Standard
	Ag	107	0.082	ug/L	0.002	2	29	1368	2	Standard
>	Tb	159		ug/L			178618	190178	2	Standard
	Pb	208	5.513	ug/L	0.179	3	534	502033	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:26:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35825	0	Standard
⌈>	**Sc**	**45**		ug/L			512571	562560	1	Standard
|	**Cr**	**52**	**1.220**	ug/L	0.017	1	7952	26415	1	Standard
⌊	**Cr**	**53**	**1.264**	ug/L	0.015	1	75	2229	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29752	1	KED
|	**Ni**	**60**	**6.548**	ug/L	0.096	1	75	9441	0	KED
|	**Ni**	**62**	**6.686**	ug/L	0.384	5	12	1544	5	KED
|	**Cu**	**63**	**0.176**	ug/L	0.010	5	53	761	4	KED
|	**Cu**	**65**	**0.180**	ug/L	0.017	9	25	395	8	KED
|	**Zn**	**66**	**0.527**	ug/L	0.056	10	52	313	7	KED
|	**Zn**	**67**	**0.901**	ug/L	0.142	15	8	80	13	KED
⌊	**As**	**75**	**15.233**	ug/L	0.237	1	3	3638	1	KED
	Y	**89**		ug/L			50088	79316	0	Standard
	Kr	**83**		ug/L			44	40	4	Standard
⌈>	**In-1**	**115**		ug/L			6034	6266	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.013	536	1	2	137	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.000	0	1	3	0	KED
⌈>	**In**	**115**		ug/L			486697	468178	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.000	7	29	112	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	187920	2	Standard
⌊	**Pb**	**208**	**0.034**	ug/L	0.001	3	534	3577	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:31:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23115	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	517740	2	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.006	48	7952	8202	1	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.008	1453	75	77	19	Standard
⌈>	**Ge**	**72**		ug/L			28784	29261	1	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.011	73	75	55	29	KED
|	**Ni**	**62**	**-0.018**	ug/L	0.018	103	12	8	44	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	27	53	33	17	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.005	613	25	24	43	KED
|	**Zn**	**66**	**-0.060**	ug/L	0.017	28	52	24	33	KED
|	**Zn**	**67**	**-0.082**	ug/L	0.000	0	8	1		KED
⌊	**As**	**75**	**-0.004**	ug/L	0.009	212	3	2	72	KED
	Y	**89**		ug/L			50088	49988	1	Standard
	Kr	**83**		ug/L			44	55	15	Standard
⌈>	**In-1**	**115**		ug/L			6034	6137	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	144	1	0	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	176	1	0	180	KED
⌈>	**In**	**115**		ug/L			486697	486698	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	57	29	12	77	Standard
⌈>	**Tb**	**159**		ug/L			178618	183514	1	Standard
⌊	**Pb**	**208**	**-0.004**	ug/L	0.000	3	534	240	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:35:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23784	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	524165	1	Standard
|	**Cr**	**52**	**50.223**	ug/L	1.690	3	7952	686346	2	Standard
⌊	**Cr**	**53**	**48.285**	ug/L	0.163	0	75	76453	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29553	1	KED
|	**Ni**	**60**	**49.754**	ug/L	0.656	1	75	70745	0	KED
|	**Ni**	**62**	**50.882**	ug/L	3.005	5	12	11590	4	KED
|	**Cu**	**63**	**50.319**	ug/L	1.412	2	53	199933	1	KED
|	**Cu**	**65**	**49.530**	ug/L	0.589	1	25	101036	0	KED
|	**Zn**	**66**	**50.795**	ug/L	1.374	2	52	24867	1	KED
|	**Zn**	**67**	**50.525**	ug/L	1.241	2	8	4025	1	KED
⌊	**As**	**75**	**50.135**	ug/L	0.843	1	3	11885	1	KED
	Y	**89**		ug/L			50088	50673	2	Standard
	Kr	**83**		ug/L			44	55	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6213	2	KED
|	**Cd**	**111**	**49.407**	ug/L	1.725	3	1	11124	0	KED
⌊	**Cd**	**114**	**50.485**	ug/L	1.873	3	1	29245	1	KED
⌈>	**In**	**115**		ug/L			486697	478603	2	Standard
⌊	**Ag**	**107**	**46.759**	ug/L	0.518	1	29	736095	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	187493	1	Standard
⌊	**Pb**	**208**	**54.257**	ug/L	1.080	1	534	4867949	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:42:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	22705	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	510222	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.015	349	7952	7968	2	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.003	207	75	77	6	Standard
⌈>	**Ge**	**72**		ug/L			28784	29563	0	KED
|	**Ni**	**60**	**-0.021**	ug/L	0.008	38	75	48	23	KED
|	**Ni**	**62**	**-0.021**	ug/L	0.032	151	12	8	87	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.002	42	53	33	27	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	155	25	20	43	KED
|	**Zn**	**66**	**-0.064**	ug/L	0.010	15	52	22	22	KED
|	**Zn**	**67**	**-0.051**	ug/L	0.060	118	8	4	107	KED
⌊	**As**	**75**	**0.002**	ug/L	0.007	315	3	4	37	KED
	Y	**89**		ug/L			50088	49119	4	Standard
	Kr	**83**		ug/L			44	40	5	Standard
⌈>	**In-1**	**115**		ug/L			6034	6359	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.005	126	1	2	43	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	182	1	2	92	KED
⌈>	**In**	**115**		ug/L			486697	484923	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.002	141	29	45	50	Standard
⌈>	**Tb**	**159**		ug/L			178618	182782	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	6	534	264	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:47:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	32134	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	622588	1	Standard
|	**Cr**	**52**	**0.373**	ug/L	0.016	4	7952	15647	2	Standard
⌊	**Cr**	**53**	**0.480**	ug/L	0.009	1	75	994	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	28304	2	KED
|	**Ni**	**60**	**1.014**	ug/L	0.054	5	75	1452	2	KED
|	**Ni**	**62**	**1.030**	ug/L	0.099	9	12	236	7	KED
|	**Cu**	**63**	**0.040**	ug/L	0.006	14	53	205	8	KED
|	**Cu**	**65**	**0.036**	ug/L	0.013	35	25	94	23	KED
|	**Zn**	**66**	**0.740**	ug/L	0.013	1	52	398	4	KED
|	**Zn**	**67**	**1.054**	ug/L	0.107	10	8	88	6	KED
⌊	**As**	**75**	**19.230**	ug/L	0.660	3	3	4366	1	KED
	Y	**89**		ug/L			50088	69538	3	Standard
	Kr	**83**		ug/L			44	30	16	Standard
⌈>	**In-1**	**115**		ug/L			6034	5855	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	108	1	2	43	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	349	1	1	112	KED
⌈>	**In**	**115**		ug/L			486697	442888	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	14	29	52	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	176146	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	4	534	1141	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:51:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	32551	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	622587	2	Standard
|	**Cr**	**52**	**0.412**	ug/L	0.016	3	7952	16267	3	Standard
⌊	**Cr**	**53**	**0.486**	ug/L	0.013	2	75	1004	5	Standard
⌈>	**Ge**	**72**		ug/L			28784	27718	2	KED
|	**Ni**	**60**	**1.154**	ug/L	0.065	5	75	1610	4	KED
|	**Ni**	**62**	**1.189**	ug/L	0.121	10	12	266	10	KED
|	**Cu**	**63**	**0.037**	ug/L	0.001	3	53	189	3	KED
|	**Cu**	**65**	**0.039**	ug/L	0.008	21	25	99	15	KED
|	**Zn**	**66**	**0.454**	ug/L	0.039	8	52	259	7	KED
|	**Zn**	**67**	**0.737**	ug/L	0.045	6	8	62	3	KED
⌊	**As**	**75**	**17.452**	ug/L	0.167	0	3	3882	1	KED
	Y	**89**		ug/L			50088	70299	3	Standard
	Kr	**83**		ug/L			44	43	23	Standard
⌈>	**In-1**	**115**		ug/L			6034	5780	1	KED
|	**Cd**	**111**	**0.008**	ug/L	0.010	120	1	3	62	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	267	1	1	106	KED
⌈>	**In**	**115**		ug/L			486697	454628	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	19	29	44	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	178896	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	20	534	808	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:55:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	43951	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	611223	0	Standard
|	**Cr**	**52**	**0.674**	ug/L	0.028	4	7952	20103	2	Standard
⌊	**Cr**	**53**	**0.801**	ug/L	0.030	3	75	1567	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	27657	2	KED
|	**Ni**	**60**	**4.379**	ug/L	0.108	2	75	5891	1	KED
|	**Ni**	**62**	**4.412**	ug/L	0.139	3	12	951	2	KED
|	**Cu**	**63**	**5.152**	ug/L	0.035	0	53	19209	2	KED
|	**Cu**	**65**	**5.031**	ug/L	0.155	3	25	9622	1	KED
|	**Zn**	**66**	**9.989**	ug/L	0.373	3	52	4615	1	KED
|	**Zn**	**67**	**10.437**	ug/L	0.353	3	8	784	4	KED
⌊	**As**	**75**	**4.605**	ug/L	0.101	2	3	1024	1	KED
	Y	**89**		ug/L			50088	69977	3	Standard
	Kr	**83**		ug/L			44	36	15	Standard
⌈>	**In-1**	**115**		ug/L			6034	5721	3	KED
|	**Cd**	**111**	**0.307**	ug/L	0.017	5	1	65	3	KED
⌊	**Cd**	**114**	**0.269**	ug/L	0.048	17	1	143	14	KED
⌈>	**In**	**115**		ug/L			486697	463308	0	Standard
⌊	**Ag**	**107**	**0.017**	ug/L	0.002	11	29	289	9	Standard
⌈>	**Tb**	**159**		ug/L			178618	184294	0	Standard
⌊	**Pb**	**208**	**0.306**	ug/L	0.004	1	534	27565	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:00:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	34930	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	627875	1	Standard
|	**Cr**	**52**	**0.380**	ug/L	0.019	5	7952	15891	1	Standard
⌊	**Cr**	**53**	**0.553**	ug/L	0.025	4	75	1139	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	27514	0	KED
|	**Ni**	**60**	**2.436**	ug/L	0.075	3	75	3293	3	KED
|	**Ni**	**62**	**2.256**	ug/L	0.038	1	12	490	1	KED
|	**Cu**	**63**	**1.485**	ug/L	0.027	1	53	5545	1	KED
|	**Cu**	**65**	**1.415**	ug/L	0.035	2	25	2711	2	KED
|	**Zn**	**66**	**1.359**	ug/L	0.066	4	52	668	4	KED
|	**Zn**	**67**	**1.908**	ug/L	0.317	16	8	149	15	KED
⌊	**As**	**75**	**1.535**	ug/L	0.082	5	3	342	5	KED
	Y	**89**		ug/L			50088	68173	1	Standard
	Kr	**83**		ug/L			44	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6034	5812	3	KED
|	**Cd**	**111**	**0.046**	ug/L	0.015	32	1	11	24	KED
⌊	**Cd**	**114**	**0.042**	ug/L	0.011	26	1	23	25	KED
⌈>	**In**	**115**		ug/L			486697	461876	0	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	2	29	84	1	Standard
⌈>	**Tb**	**159**		ug/L			178618	183150	1	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	6	534	2074	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:05:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	24777	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	495765	2	Standard
|	**Cr**	**52**	**0.016**	ug/L	0.006	40	7952	7890	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.003	57	75	79	6	Standard
⌈>	**Ge**	**72**		ug/L			28784	28451	2	KED
|	**Ni**	**60**	**-0.016**	ug/L	0.012	71	75	52	29	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.001	8	12	9	0	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.002	38	53	34	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	41	25	15	25	KED
|	**Zn**	**66**	**-0.054**	ug/L	0.016	29	52	26	25	KED
|	**Zn**	**67**	**-0.064**	ug/L	0.039	60	8	3	91	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	96	3	2	36	KED
	Y	**89**		ug/L			50088	48564	3	Standard
	Kr	**83**		ug/L			44	48	37	Standard
⌈>	**In-1**	**115**		ug/L			6034	5785	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	204	1	2	65	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	881	1	1	94	KED
⌈>	**In**	**115**		ug/L			486697	478635	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	34	29	12	45	Standard
⌈>	**Tb**	**159**		ug/L			178618	179215	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	11	534	261	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0636-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:09:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	27281	2	Standard
⌈>	Sc	45		ug/L			512571	527974	2	Standard
|	Cr	52	0.531	ug/L	0.004	0	7952	15415	2	Standard
⌊	Cr	53	0.556	ug/L	0.057	10	75	962	8	Standard
⌈>	Ge	72		ug/L			28784	27707	0	KED
|	Ni	60	0.997	ug/L	0.030	3	75	1400	2	KED
|	Ni	62	0.972	ug/L	0.145	14	12	219	14	KED
|	Cu	63	1.671	ug/L	0.041	2	53	6275	1	KED
|	Cu	65	1.694	ug/L	0.063	3	25	3263	3	KED
|	Zn	66	3.878	ug/L	0.013	0	52	1827	0	KED
|	Zn	67	3.658	ug/L	0.276	7	8	280	6	KED
⌊	As	75	0.526	ug/L	0.028	5	3	120	4	KED
	Y	89		ug/L			50088	65167	0	Standard
	Kr	83		ug/L			44	40	24	Standard
⌈>	In-1	115		ug/L			6034	5801	4	KED
|	Cd	111	0.000	ug/L	0.006	1388	1	1	69	KED
⌊	Cd	114	0.005	ug/L	0.004	74	1	3	50	KED
⌈>	In	115		ug/L			486697	473435	2	Standard
⌊	Ag	107	0.001	ug/L	0.000	28	29	48	9	Standard
⌈>	Tb	159		ug/L			178618	186385	0	Standard
⌊	Pb	208	0.744	ug/L	0.012	1	534	66913	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-DUP1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:14:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	28530	3	Standard
>	Sc	45		ug/L			512571	538334	0	Standard
	Cr	52	0.537	ug/L	0.030	5	7952	15807	2	Standard
	Cr	53	0.592	ug/L	0.045	7	75	1040	6	Standard
>	Ge	72		ug/L			28784	28724	0	KED
	Ni	60	0.998	ug/L	0.070	6	75	1452	6	KED
	Ni	62	1.102	ug/L	0.076	6	12	256	6	KED
	Cu	63	1.729	ug/L	0.041	2	53	6729	2	KED
	Cu	65	1.667	ug/L	0.038	2	25	3329	1	KED
	Zn	66	4.091	ug/L	0.104	2	52	1995	2	KED
	Zn	67	4.288	ug/L	0.718	16	8	339	16	KED
	As	75	0.560	ug/L	0.031	5	3	132	5	KED
	Y	89		ug/L			50088	65772	1	Standard
	Kr	83		ug/L			44	57	36	Standard
>	In-1	115		ug/L			6034	6012	3	KED
	Cd	111	0.014	ug/L	0.018	129	1	4	81	KED
	Cd	114	0.010	ug/L	0.002	16	1	6	16	KED
>	In	115		ug/L			486697	480605	1	Standard
	Ag	107	0.001	ug/L	0.000	42	29	38	10	Standard
>	Tb	159		ug/L			178618	189596	0	Standard
	Pb	208	0.754	ug/L	0.014	1	534	68955	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MS1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:19:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	27955	5	Standard
⌈>	Sc	45		ug/L			512571	525581	2	Standard
|	Cr	52	2.936	ug/L	0.034	1	7952	47911	2	Standard
⌊	Cr	53	2.885	ug/L	0.053	1	75	4653	3	Standard
⌈>	Ge	72		ug/L			28784	28593	2	KED
|	Ni	60	3.498	ug/L	0.051	1	75	4881	1	KED
|	Ni	62	3.654	ug/L	0.214	5	12	816	3	KED
|	Cu	63	4.341	ug/L	0.156	3	53	16732	0	KED
|	Cu	65	4.320	ug/L	0.187	4	25	8544	2	KED
|	Zn	66	12.514	ug/L	0.258	2	52	5966	0	KED
|	Zn	67	11.781	ug/L	0.398	3	8	914	5	KED
⌊	As	75	3.033	ug/L	0.163	5	3	698	2	KED
	Y	89		ug/L			50088	67142	3	Standard
	Kr	83		ug/L			44	37	12	Standard
⌈>	In-1	115		ug/L			6034	5883	2	KED
|	Cd	111	2.582	ug/L	0.073	2	1	552	1	KED
⌊	Cd	114	2.689	ug/L	0.054	2	1	1476	1	KED
⌈>	In	115		ug/L			486697	479355	0	Standard
⌊	Ag	107	2.061	ug/L	0.025	1	29	32527	1	Standard
⌈>	Tb	159		ug/L			178618	182686	0	Standard
⌊	Pb	208	3.600	ug/L	0.075	2	534	315263	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MSD1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:25:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	28749	4	Standard
⌈>	Sc	45		ug/L			512571	530124	2	Standard
|	Cr	52	2.822	ug/L	0.034	1	7952	46777	2	Standard
⌊	Cr	53	2.760	ug/L	0.057	2	75	4491	1	Standard
⌈>	Ge	72		ug/L			28784	28834	0	KED
|	Ni	60	3.466	ug/L	0.040	1	75	4878	1	KED
|	Ni	62	3.268	ug/L	0.068	2	12	738	2	KED
|	Cu	63	4.176	ug/L	0.095	2	53	16242	2	KED
|	Cu	65	4.187	ug/L	0.061	1	25	8358	1	KED
|	Zn	66	12.041	ug/L	0.301	2	52	5792	2	KED
|	Zn	67	11.364	ug/L	0.700	6	8	890	6	KED
⌊	As	75	2.958	ug/L	0.065	2	3	687	1	KED
	Y	89		ug/L			50088	66898	0	Standard
	Kr	83		ug/L			44	43	18	Standard
⌈>	In-1	115		ug/L			6034	6008	3	KED
|	Cd	111	2.402	ug/L	0.153	6	1	524	3	KED
⌊	Cd	114	2.457	ug/L	0.086	3	1	1378	4	KED
⌈>	In	115		ug/L			486697	486503	2	Standard
⌊	Ag	107	2.042	ug/L	0.032	1	29	32695	0	Standard
⌈>	Tb	159		ug/L			178618	185233	0	Standard
⌊	Pb	208	3.411	ug/L	0.010	0	534	302959	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:29:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23093	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	491451	2	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.012	138	7952	7733	3	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.007	369	75	69	16	Standard
⌈>	**Ge**	**72**		ug/L			28784	28042	0	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.005	33	75	53	12	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.014	191	12	10	26	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	28	53	28	24	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	74	25	19	20	KED
|	**Zn**	**66**	**-0.049**	ug/L	0.032	65	52	28	52	KED
|	**Zn**	**67**	**-0.031**	ug/L	0.025	81	8	5	33	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.005	79	3	2	53	KED
	Y	**89**		ug/L			50088	47507	2	Standard
	Kr	**83**		ug/L			44	39	2	Standard
⌈>	**In-1**	**115**		ug/L			6034	5851	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	256	1	1	50	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	208	1	0	188	KED
⌈>	**In**	**115**		ug/L			486697	482259	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	48	29	13	55	Standard
⌈>	**Tb**	**159**		ug/L			178618	176757	2	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	11	534	247	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:34:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23085	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	510290	2	Standard
|	**Cr**	**52**	**49.845**	ug/L	0.659	1	7952	663306	1	Standard
⌊	**Cr**	**53**	**49.254**	ug/L	0.241	0	75	75919	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	28502	0	KED
|	**Ni**	**60**	**49.022**	ug/L	0.991	2	75	67228	1	KED
|	**Ni**	**62**	**49.233**	ug/L	0.674	1	12	10820	1	KED
|	**Cu**	**63**	**51.028**	ug/L	1.049	2	53	195577	1	KED
|	**Cu**	**65**	**50.266**	ug/L	0.362	0	25	98899	0	KED
|	**Zn**	**66**	**50.246**	ug/L	1.428	2	52	23728	2	KED
|	**Zn**	**67**	**49.533**	ug/L	0.241	0	8	3807	0	KED
⌊	**As**	**75**	**49.156**	ug/L	0.750	1	3	11240	1	KED
	Y	**89**		ug/L			50088	49783	0	Standard
	Kr	**83**		ug/L			44	61	7	Standard
⌈>	**In-1**	**115**		ug/L			6034	6026	1	KED
|	**Cd**	**111**	**50.412**	ug/L	0.446	0	1	11014	0	KED
⌊	**Cd**	**114**	**50.125**	ug/L	0.823	1	1	28176	2	KED
⌈>	**In**	**115**		ug/L			486697	469523	3	Standard
⌊	**Ag**	**107**	**45.677**	ug/L	1.580	3	29	704992	1	Standard
⌈>	**Tb**	**159**		ug/L			178618	183887	1	Standard
⌊	**Pb**	**208**	**55.762**	ug/L	1.321	2	534	4906643	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:41:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23317	1	Standard
⌈>	**Sc**	**45**		ug/L			512571	498254	1	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.004	27	7952	7906	0	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.007	202	75	68	15	Standard
⌈>	**Ge**	**72**		ug/L			28784	28666	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.015	3020	75	76	29	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.037	258	12	9	87	KED
|	**Cu**	**63**	**0.008**	ug/L	0.019	252	53	83	90	KED
|	**Cu**	**65**	**0.012**	ug/L	0.028	241	25	48	116	KED
|	**Zn**	**66**	**-0.042**	ug/L	0.036	85	52	33	53	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.041	123	8	5	57	KED
⌊	**As**	**75**	**0.007**	ug/L	0.018	259	3	5	77	KED
	Y	**89**		ug/L			50088	47888	0	Standard
	Kr	**83**		ug/L			44	58	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	5978	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.005	168	1	2	49	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	2472	1	1	86	KED
⌈>	**In**	**115**		ug/L			486697	472919	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	115	29	41	35	Standard
⌈>	**Tb**	**159**		ug/L			178618	178659	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	7	534	267	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:45:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	25958	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	564678	1	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.014	382	7952	8811	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.004	53	75	70	7	Standard
⌈>	**Ge**	**72**		ug/L			28784	28993	1	KED
|	**Ni**	**60**	**-0.013**	ug/L	0.008	60	75	58	17	KED
|	**Ni**	**62**	**-0.023**	ug/L	0.009	37	12	7	25	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	50	53	43	14	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	109	25	20	24	KED
|	**Zn**	**66**	**-0.015**	ug/L	0.013	81	52	45	14	KED
|	**Zn**	**67**	**-0.000**	ug/L	0.052	15913	8	8	48	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.008	108	3	2	96	KED
	Y	**89**		ug/L			50088	54349	1	Standard
	Kr	**83**		ug/L			44	48	48	Standard
⌈>	**In-1**	**115**		ug/L			6034	6353	3	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.005	1172	1	1	69	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	166	1	0	205	KED
⌈>	**In**	**115**		ug/L			486697	523133	3	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	200	29	36	26	Standard
⌈>	**Tb**	**159**		ug/L			178618	196229	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	12	534	414	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:50:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	26612	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	549525	3	Standard
|	**Cr**	**52**	**0.023**	ug/L	0.007	31	7952	8850	1	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.001	43	75	75	5	Standard
⌈>	**Ge**	**72**		ug/L			28784	29286	2	KED
|	**Ni**	**60**	**-0.020**	ug/L	0.016	81	75	48	43	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.024	188	12	10	54	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.003	86	53	43	25	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	53	25	19	14	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.028	351	52	49	25	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.051	3767	8	8	48	KED
⌊	**As**	**75**	**-0.011**	ug/L	0.003	28	3	1	57	KED
	Y	**89**		ug/L			50088	54172	0	Standard
	Kr	**83**		ug/L			44	42	13	Standard
⌈>	**In-1**	**115**		ug/L			6034	6173	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	340	1	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	339	1	1	115	KED
⌈>	**In**	**115**		ug/L			486697	514395	3	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	1870	29	31	18	Standard
⌈>	**Tb**	**159**		ug/L			178618	194120	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	15	534	381	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:54:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	25778	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	553078	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.009	77	7952	8737	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.006	133	75	89	11	Standard
⌈>	**Ge**	**72**		ug/L			28784	29423	0	KED
|	**Ni**	**60**	**-0.011**	ug/L	0.006	56	75	60	14	KED
|	**Ni**	**62**	**-0.004**	ug/L	0.027	647	12	12	50	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	29	53	32	21	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	36	25	15	25	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.045	918	52	51	42	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.037	204	8	6	41	KED
⌊	**As**	**75**	**-0.010**	ug/L	0.002	19	3	1	33	KED
	Y	**89**		ug/L			50088	54582	3	Standard
	Kr	**83**		ug/L			44	37	19	Standard
⌈>	**In-1**	**115**		ug/L			6034	6229	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	129	1	0	100	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1785	1	1	98	KED
⌈>	**In**	**115**		ug/L			486697	520624	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	61	29	22	26	Standard
⌈>	**Tb**	**159**		ug/L			178618	196970	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	7	534	358	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:59:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23586	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	467022	2	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.015	218	7952	7326	2	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.004	211	75	65	11	Standard
⌈>	**Ge**	**72**		ug/L			28784	27849	0	KED
|	**Ni**	**60**	**-0.039**	ug/L	0.002	6	75	20	15	KED
|	**Ni**	**62**	**-0.040**	ug/L	0.018	44	12	3	100	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.001	14	53	19	26	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	40	25	6	103	KED
|	**Zn**	**66**	**-0.064**	ug/L	0.006	9	52	21	13	KED
|	**Zn**	**67**	**-0.090**	ug/L	0.029	32	8	1	173	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.006	157	3	2	44	KED
	Y	**89**		ug/L			50088	45718	0	Standard
	Kr	**83**		ug/L			44	45	4	Standard
⌈>	**In-1**	**115**		ug/L			6034	5676	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	1009	1	1	173	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	909	1	1	90	KED
⌈>	**In**	**115**		ug/L			486697	443034	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	30	29	8	66	Standard
⌈>	**Tb**	**159**		ug/L			178618	170677	0	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	5	534	131	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 08:03:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23858	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	471059	2	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.006	67	7952	7422	1	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.006	86	75	60	12	Standard
⌈>	**Ge**	**72**		ug/L			28784	28025	1	KED
|	**Ni**	**60**	**-0.034**	ug/L	0.005	13	75	27	22	KED
|	**Ni**	**62**	**-0.022**	ug/L	0.015	70	12	7	43	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.001	15	53	25	17	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	40	25	6	103	KED
|	**Zn**	**66**	**-0.072**	ug/L	0.014	19	52	17	34	KED
|	**Zn**	**67**	**-0.090**	ug/L	0.015	16	8	1	86	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	147	3	3	32	KED
	Y	**89**		ug/L			50088	46999	2	Standard
	Kr	**83**		ug/L			44	50	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	5675	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	1342	1	1	173	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	47	1	3	33	KED
⌈>	**In**	**115**		ug/L			486697	453748	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	9	29	5	33	Standard
⌈>	**Tb**	**159**		ug/L			178618	170230	0	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	5	534	110	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 08:08:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23298	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	476857	3	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.007	78	7952	7511	2	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.002	35	75	63	0	Standard
⌈>	**Ge**	**72**		ug/L			28784	27968	1	KED
|	**Ni**	**60**	**-0.032**	ug/L	0.007	20	75	30	28	KED
|	**Ni**	**62**	**-0.031**	ug/L	0.017	56	12	5	66	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.001	9	53	17	19	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.002	24	25	9	40	KED
|	**Zn**	**66**	**-0.050**	ug/L	0.005	10	52	27	7	KED
|	**Zn**	**67**	**-0.073**	ug/L	0.015	20	8	2	43	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.004	46	3	1	43	KED
	Y	**89**		ug/L			50088	46307	0	Standard
	Kr	**83**		ug/L			44	41	18	Standard
⌈>	**In-1**	**115**		ug/L			6034	5740	3	KED
|	**Cd**	**111**	**0.007**	ug/L	0.012	183	1	2	88	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.000	8	1	0	124	KED
⌈>	**In**	**115**		ug/L			486697	464061	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	23	29	10	43	Standard
⌈>	**Tb**	**159**		ug/L			178618	172358	0	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	2	534	118	7	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00042	Instrument:	ICPMS1
Calibration Date:	05/11/2023 13:56		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	14605	10	14850.5	20	14243.6	50	13620.14	100	13175.56
Chromium-52	0	0	0.5	31826	10	14601.9	20	13940.65	50	12586.68	100	12285.63
Chromium-53	0	0	0.5	1730	10	1565.3	20	1561.7	50	1453.62	100	1404.46
Lead-208	0	0	0.1	90790	10	90159.3	20	88189.75	50	84692.68	100	81042.75

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00042
Calibration Date: 5/11/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	11749.13	49.3	0.9995		0.998	
Chromium-52	14206.81	71.7	0.9995		0.998	
Chromium-53	1285.847	49.8	0.9994		0.998	
Lead-208	72479.08	49.2	0.9993		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Instrument: ICPMS1
Calibration Date: 05/11/2023 13:56

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	260	10	254.7	20	249.25	50	236.26	100	229.57
Cadmium-111	0	0	0.1	210	10	239.4	20	229.7	50	220.12	100	211.69
Cadmium-114	0	0	0.1	650	10	611.2	20	584.95	50	559.7	100	540.5
Copper-63	0	0	0.5	4706	10	4491.6	20	4340.5	50	3994.12	100	3756.22
Copper-65	0	0	0.5	2382	10	2215.3	20	2202.9	50	1984.34	100	1919.1
Zinc-66	0	0	6	543.5	10	545.3	20	526.4	50	490.02	100	469.18
Zinc-67	0	0	6	80.33334	10	86.7	20	87.1	50	81.8	100	76.06

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00042
Calibration Date: 5/11/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	204.9633	49.3	0.9996		0.998	
Cadmium-111	185.1517	49.4	0.9994		0.998	
Cadmium-114	491.0583	49.6	0.9995		0.998	
Copper-63	3548.073	49.9	0.9984		0.998	
Copper-65	1783.94	49.9	0.9990		0.998	
Zinc-66	429.0667	49.5	0.9993		0.998	
Zinc-67	68.66556	49.4	0.9983		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** SLEΦ2Φ9 **Cal:** GEΦΦΦ42

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	L5316		
		-CAL2	L5225		
		-CAL3	L5226		
		-CAL4	L5227		In-1 sl. noisy - %R ΦAnalytes OK
		-CAL5	L5317		
		-CAL6	L5229		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	L5316		
	✓	-CAL1	—		
	✓	-CAL1	—		
	✓	-CCV1	—		Std Mode Sl. noisy
		-CCV1	L5317		
		-CCB1	L5316		
		-CRL1	L5225		
		-IFA1	L5318		Cr^{53} ↑
		-IFB1	L5319		
		-MCV1	L478Φ		
		-MCV2	L4781		
		-IBL2	—		(Cd↑/Cd noisy)
		-IBL3	—		
		-CCV2			
		-CCB2			
	✓	-CAL1			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV3			
		↓ -CCB3			
		BLEΦΦ72-BS2	SWN	20	Ag, Cr, Pb only
		BLEΦ342-BLK1	REN		
		↓ -BS1	↓		
	✓	BS TEST OLD SPIKE			TEST ONLY
	✓	↓ NEW SPIKE			↓
		23EΦ271-Φ1		5	
		23EΦ239-Φ1	↓	2	
		SEQ-IBL4			
		23DΦΦ74-13	REN	100	Mn only
		SEQ-IBL5			
		↓ -CCV4			
		↓ -CCB4			
		23DΦ477-Φ4	REN		Pb only
		↓ -Φ8	↓		↓
		-1Φ			
		-12			
		-18			
		↓ -2Φ		2	
		BLEΦ1Φ6-DUP2		↓	
		↓ -MS2			
		↓ -MSD2	↓	↓	
		SEQ-IBL6			TUBE Empty

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV5			
		↓ -CCB5			
		230Φ477-Φ1	REN	5	Pb only
		-Φ7	↓	↓	↓
		↓ -Φ9			
		230Φ48Φ-Φ1			
		SEQ-IBL7			
		230Φ477-Φ2	REN	2	Pb only
		-Φ3	↓	↓	↓
		-Φ6			
		-11			
		SEQ-IBL8			
		-CCV6			
		↓ -CCB6			
		230Φ477-13	REN	2	Pb only
		-14	↓	↓	↓
		-16			
		↓ -15		10	
		SEQ-IBL9			
		230Φ7Φ2-Φ4	REN		
		BLEΦ342-DUP1	↓		
		-MS1			
		↓ -MSD1			
		SEQ-IBLA			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV7			
		-CCB7			
	✓	-CAL1			
		-CCV8			
		-CCB8			
	✓	23D0171-01	REN	20	Sc↑ Mn only
		-02			
		-10			
		-11		100	
		-12			
		-DL0		50	
		SEQ-IBLB			
		-CCV9			Sc↑
		-CCB9			
	✓	-CAL1			
		-CCVA			
		-CCBA			
		23D0636-01	REN	10	Ba, Pb only
		BLE0298-DUP2			
		-MS2			
		-MSD2			
		SEQ-IBLC			
		23D0568-08	SWN	20	Cr NR
		BLE0143-DUP1			As, Pb RPD↑

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLEΦ143-MS1	SWN	20	Pb %R↓ Cr NR
		↓ -MS01	↓	↓	Se↑/As %R↓/ω STL ↓
		SEQ-IBLD			(Ge noisy)
		-CCVB			
		↓ -CCBB			
		23DΦ568-Φ2	SWN	20	
		-Φ3			Pb↑ Pb NR
		-Φ4			
		-Φ5			
		-Φ6			
		↓ -Φ7	↓	↓	Sc, Tb↑ Cr, Pb NR
		SEQ-IBLE			
	✓	BLEΦ143-MS01	SWN	20	Se, Tb↑
		SEQ-IBLF			
		-CCVC			
		-CCBC			
	✓	-CAL1			Ba, Mn, N. Removed
		-CCVD			
		↓ -CCBD			
		23AΦ467-Φ3	SWN	20	Ag, Cr, Pb only
		23CΦΦ71-Φ3			↓
		230ΦΦΦ8-Φ1			
		230Φ136-Φ1			
		↓ -Φ3	↓	↓	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ϕ396-ϕ1	SWN	20	
		↓ -ϕ3	↓	↓	
		230ϕ394-ϕ2	↓	↓	
		↓ -ϕ4	↓	↓	
		SEQ-IBLG			
		-CCVE			
		↓ -CCBE			
		230ϕ394-ϕ6	SWN	20	
		-ϕ7	↓	↓	
		-ϕ8	↓	↓	
		-11	↓	↓	Zn↑/Cd noisy No Cd, Zn
		-12	↓	↓	
		↓ -13	↓	↓	
		230ϕ393-24	↓	↓	
		-28	↓	↓	
		↓ -29	↓	↓	
		SEQ-IBLH			
		-CCVF			
		↓ -CCBF			
		230ϕ393-1ϕ	SWN	20	
		-11	↓	↓	
		-12	↓	↓	In↑ st. noisy-%R / Ge noisy + Analytes OK No As, Cu, Zn
		-15	↓	↓	
		↓ -16	↓	↓	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/14/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ϕ393-17	SWN	20	
		-18	↓	↓	
		-19	↓	↓	
		-22	↓	↓	Cu↑ No Cu
		SEQ-IBL1			
		-CCVG			
		-CCBG			
		230ϕ393-ϕ4RE1	SWN	2000	Cu, Zn only
		BLEϕϕ72-DUP3	↓	↓	↓
		-MS3	↓	↓	Cu, Zn STL
		-MSD3	↓	↓	↓
		230ϕ393-ϕ4	↓	200	Cu, Zn↑ Ag, As, Cd, Pb only / Cu, Zn NR
		BLEϕϕ72-DUP2	↓	↓	↓
		-MS2	↓	↓	Ag %R↓ / As, Pb STL
		-MSD2	↓	↓	↓
		-PS2	↓	↓	↓ 60 mL IK7409
		SEQ-IBL3			
		-CCVH			
		-CCBH			
		230ϕ568-ϕ3RE1	SWN	200	Pb only
		230ϕ568-ϕ7RE1	↓	50	Cr, Pb only
		-ϕ8RE1	↓	↓	Cr only
		BLEϕ143-DUP2	↓	↓	↓
		-MS2	↓	↓	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 5/11/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLEΦ143-MSD2	SWN	50	Cr only
		SEQ-IBLK			
	✓	230Φ393-Φ2	SWN	200	Re-run @ 20x
	✓	↓ -Φ3	↓	↓	↓
		SEQ-IBLL			
		-CCVI			
		-CCBI			
	✓	-CAL1			
		-CCVJ			
		-CCBJ			
		230Φ393-Φ5	SWN	200	Zn↑ - Not Needed ~~No Zn~~
		-Φ6			
	✓	-Φ8			Re-run @ 20x
		SEQ-IBLM			
		230Φ412-Φ2	REN		
		-Φ3			
		-Φ4			
		-Φ5			
		-Φ6			
		SEQ-IBLN			
		-CCVK			
		-CCBK			
		230Φ412-Φ7	REN		
		↓ -Φ8	↓		

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23D0412-09	REN		
		-10			
		-11			
		-12			
		-13			
		-14			
		-15			
		SEQ-IBL0			
		-CCVL			
		-CCBL			
		23D0442-03	REN		Sc↑ - Not Needed
		-04			
	✓	-05			Sc↑ - Not Needed / Ge noisy
		-06			↓ ↓
	✓	23D0598-04			Sc, Ge, In, In-1, Tb ↓
		-06			Ge, In-1, In, Tb ↓ Cr only
		-08			Sc↑ No Cr
		-10			↓ ↓
		-12			
		SEQ-IBLP			(Cr53↑)
		-CCVM			
		-CCBM			
		23D0514-02	REN		Sc↑ - Not Needed
		-03			↓ ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ514-Φ4	REN		ScT - Not Needed
		↓ -Φ6	↓		
		SEQ-IBLQ			
	✓	230Φ598-Φ2	REN		Int. STDs↓
		BLEΦ119-DLP1			
		-MS1			
		-MSD1			
		SEQ-IBLR			(Sc, GeT / Cr53T)
		-CCVN			CrL
		-CCBN			
	✓	-CAL1			
		-CCVO			CrL
		-CCBO			
		230Φ537-Φ2	REN	2	
		-Φ3		↓	
		-Φ4			ScT - Not Needed
		230Φ494-Φ1			
		-Φ2			
		-Φ3			ScT - Not Needed
		-Φ4			
		-Φ5			
		-Φ6			
		SEQ-IBLS			
		↓ -CCVP			CrL / PbT

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 5/14/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBP			
		230Φ494-Φ7	REN		
	✓	-Φ8			As noisy
		-Φ9			
		-1Φ			
		-11			
		230Φ578-Φ2		25	As only
		BLEΦ134-OUP1		↓	↓
		-MS1			
	✓	-MSD1	↓	↓	Ge noisy
		SEQ-IBLT			
		-CCVQ			
		-CCBQ			
		230Φ588-Φ1	REN		
		-Φ3			
		-Φ5			
		-Φ7			
		-Φ9			
		-11			
		-13			
		-15			
		230Φ587-Φ3	↓		
		SEQ-IBLU			
		-CCVR			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBR			
		230ϕ587-ϕ2	REN	2	
		-ϕ4		5	
		-ϕ5		↓	
		230ϕ578-ϕ7			
		-ϕ8		↓	
		-ϕ4		2	
		-ϕ6		↓	
		-ϕ3			
		-ϕ5	↓		
		SEQ-IBLV			
		-CCVS			
		-CCBS			
		Rinse/DF			
			MB 5/11/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, May 11, 2023 12:49:24
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.159
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6461.2	6461.194	108.647	1.7	Standard
	In	114.9	67625.0	67624.969	851.616	1.3	Standard
	U	238.1	94250.1	94250.125	1957.526	2.1	Standard
⎡	CeO	155.9	1249.3	0.013	0.000	1.9	Standard
⎢>	Ce	139.9	93503.0	93502.957	927.845	1.0	Standard
⎣	Ce++	70.0	612.9	0.007	0.000	6.9	Standard
	Bkgd	220.0	1.7	1.667	0.264	15.8	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/11/2023 12:49:13 PM
End Time: 5/11/2023 12:54:25 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6461.19
Obtained Intensity (In 115): 67624.97
Obtained Intensity (U 238): 94250.13
Obtained Intensity (Bkgd 220): 1.67
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=612.88 / 93502.96)
Obtained Formula (CeO 156 / Ce 140): 0.013 (=1249.32 / 93502.96)
Obtained RSD (Be 9): 0.0168
Obtained RSD (In 115): 0.0126
Obtained RSD (U 238): 0.0208

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
1.14 mm	1.04 mm	76323.34

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.93
Obtained Intensity (In 115): 79740.93
Obtained Formula (CeO 156 / Ce 140): 0.0170 (=1741.11 / 102470.19)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.675)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.703)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/11/2023 12:49:13 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 6461.19
		Obtained Intensity (In 115): 67624.97
		Obtained Intensity (U 238): 94250.13
		Obtained Intensity (Bkgd 220): 1.67
		Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=612.88 / 93502.96)
		Obtained Formula (CeO 156 / Ce 140): 0.013 (=1249.32 / 93502.96)
		Obtained RSD (Be 9): 0.0168
		Obtained RSD (In 115): 0.0126
		Obtained RSD (U 238): 0.0208

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	1.14 mm	1.04 mm	76323.34

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.91/0.93/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 79740.93
		Obtained Formula (CeO 156 / Ce 140): 0.0170 (=1741.11 / 102470.19)
[Passed] Optimum value(s): 0.93

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.675)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.703)
[Passed] Optimum value(s): N/A

End Time: 5/11/2023 12:54:25 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, May 11, 2023 12:59:23
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.167
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7408.7	7408.655	153.896	2.1	Standard
	In	114.9	77950.1	77950.141	1370.420	1.8	Standard
	U	238.1	111916.6	111916.599	2616.965	2.3	Standard
⌈	CeO	155.9	1830.2	0.018	0.001	3.8	Standard
| >	Ce	139.9	104042.3	104042.336	1986.057	1.9	Standard
⌊	Ce++	70.0	670.5	0.006	0.000	3.2	Standard
	Bkgd	220.0	1.6	1.633	0.701	42.9	Standard

Current Conditions File Data

Current Value	Description
0.93	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.93	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/11/2023 12:54:40 PM
End Time: 5/11/2023 1:01:27 PM

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.93
Obtained Intensity (In 115): 84178.28
Obtained Formula (CeO 156 / Ce 140): 0.0181 (=1892.13 / 104805.04)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.687)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.692)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -15.68

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.996; Intercept = -14.78

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7408.65
Obtained Intensity (In 115): 77950.14
Obtained Intensity (U 238): 111916.60
Obtained Intensity (Bkgd 220): 1.63
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=670.55 / 104042.34)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1830.18 / 104042.34)
Obtained RSD (Be 9): 0.0208
Obtained RSD (In 115): 0.0176
Obtained RSD (U 238): 0.0234

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/11/2023 12:54:40 PM

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.93/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 84178.28
		Obtained Formula (CeO 156 / Ce 140): 0.0181 (=1892.13 / 104805.04)
[Passed] Optimum value(s): 0.93

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.707)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.687)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.692)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.997; Intercept = -15.68

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-16	50196
Mg	24	41	-16.5	36699.1
In	115	41	-13	81861.9
Ce	140	41	-12.5	103929
Pb	208	41	-11.5	62620.9
U	238	41	-11.5	115279

KED Mode QID

Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.996; Intercept = -14.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-15	35371.7
Mg	24	41	-15	56081.9
In	115	41	-12.5	122297
Ce	140	41	-11.5	105528
Pb	208	41	-11	58326.8
U	238	41	-10.5	137434

STD Performance Check
Optimization Settings:
Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:
Initial Try
Obtained Intensity (Be 9): 7408.65
Obtained Intensity (In 115): 77950.14
Obtained Intensity (U 238): 111916.60
Obtained Intensity (Bkgd 220): 1.63
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=670.55 / 104042.34)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1830.18 / 104042.34)
Obtained RSD (Be 9): 0.0208
Obtained RSD (In 115): 0.0176
Obtained RSD (U 238): 0.0234

[Passed] Optimum value(s): N/A

End Time: 5/11/2023 1:01:27 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 13:56:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				29450	1	Standard
	Cl	**37**		ug/L				2929441	2	Standard
⎡>	**Sc**	**45**		ug/L				500966	2	Standard
⎢	**Cr**	**52**		ug/L				9079	1	Standard
⎢	**Cr**	**53**		ug/L				93	12	Standard
⎣	**Mn**	**55**		ug/L				264	2	Standard
⎡>	**Ge**	**72**		ug/L				31052	2	KED
⎢	**Ni**	**60**		ug/L				26	31	KED
⎢	**Ni**	**62**		ug/L				6	62	KED
⎢	**Cu**	**63**		ug/L				43	5	KED
⎢	**Cu**	**65**		ug/L				30	21	KED
⎢	**Zn**	**66**		ug/L				36	31	KED
⎢	**Zn**	**67**		ug/L				6	31	KED
⎣	**As**	**75**		ug/L				3	18	KED
	Y	**89**		ug/L				40261	2	Standard
	Kr	**83**		ug/L				50	4	Standard
⎡>	**In-1**	**115**		ug/L				6674	2	KED
⎢	**Cd**	**111**		ug/L				2	115	KED
⎣	**Cd**	**114**		ug/L				3	72	KED
⎡>	**In**	**115**		ug/L				458892	1	Standard
⎢	**Ag**	**107**		ug/L				13	24	Standard
⎢	**Ba**	**135**		ug/L				43	11	Standard
⎣	**Ba**	**137**		ug/L				78	10	Standard
⎡>	**Tb**	**159**		ug/L				181387	1	Standard
⎣	**Pb**	**208**		ug/L				323	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:00:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	31832	4	Standard
	Cl	**37**		ug/L			2929441	2839755	4	Standard
⌈>	**Sc**	**45**		ug/L			500966	496983	3	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.014	2	9079	15913	2	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.035	6	93	865	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.011	2	264	9923	5	Standard
⌈>	**Ge**	**72**		ug/L			31052	31441	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.026	5	26	775	5	KED
|	**Ni**	**62**	**0.500**	ug/L	0.077	15	6	130	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.006	1	43	2353	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.019	3	30	1191	4	KED
|	**Zn**	**66**	**6.000**	ug/L	0.188	3	36	3261	4	KED
|	**Zn**	**67**	**6.000**	ug/L	0.586	9	6	482	8	KED
⌊	**As**	**75**	**0.200**	ug/L	0.018	8	3	52	9	KED
	Y	**89**		ug/L			40261	40194	3	Standard
	Kr	**83**		ug/L			50	41	23	Standard
⌈>	**In-1**	**115**		ug/L			6674	6464	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.023	22	2	21	18	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.011	10	3	65	9	KED
⌈>	**In**	**115**		ug/L			458892	444022	3	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.003	1	13	2921	2	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.038	7	43	2729	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.011	2	78	4854	3	Standard
⌈>	**Tb**	**159**		ug/L			181387	179115	3	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	3	323	9079	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:05:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	38615	2	Standard
	Cl	**37**		ug/L			2929441	2965976	5	Standard
⌈>	**Sc**	**45**		ug/L			500966	492932	2	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.241	2	9079	146019	1	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.340	3	93	15653	2	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.292	2	264	199231	2	Standard
⌈>	**Ge**	**72**		ug/L			31052	30729	2	KED
|	**Ni**	**60**	**10.001**	ug/L	0.207	2	26	15213	1	KED
|	**Ni**	**62**	**10.000**	ug/L	0.242	2	6	2455	1	KED
|	**Cu**	**63**	**10.000**	ug/L	0.230	2	43	44916	3	KED
|	**Cu**	**65**	**9.999**	ug/L	0.275	2	30	22153	0	KED
|	**Zn**	**66**	**10.082**	ug/L	0.165	1	36	5453	1	KED
|	**Zn**	**67**	**10.273**	ug/L	0.327	3	6	867	2	KED
⌊	**As**	**75**	**10.000**	ug/L	0.240	2	3	2547	0	KED
	Y	**89**		ug/L			40261	41417	3	Standard
	Kr	**83**		ug/L			50	38	27	Standard
⌈>	**In-1**	**115**		ug/L			6674	6340	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.152	1	2	2394	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.216	2	3	6112	2	KED
⌈>	**In**	**115**		ug/L			458892	456528	2	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.035	0	13	148505	2	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.120	1	43	55666	1	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.049	0	78	97151	2	Standard
⌈>	**Tb**	**159**		ug/L			181387	182174	3	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.225	2	323	901593	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:10:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	37598	5	Standard
	Cl	**37**		ug/L			2929441	3016985	5	Standard
⌈>	**Sc**	**45**		ug/L			500966	495356	3	Standard
|	**Cr**	**52**	**19.915**	ug/L	0.230	1	9079	278813	3	Standard
|	**Cr**	**53**	**19.982**	ug/L	0.307	1	93	31234	2	Standard
⌊	**Mn**	**55**	**19.853**	ug/L	0.270	1	264	385814	2	Standard
⌈>	**Ge**	**72**		ug/L			31052	31142	1	KED
|	**Ni**	**60**	**19.875**	ug/L	0.193	0	26	29873	1	KED
|	**Ni**	**62**	**19.829**	ug/L	0.427	2	6	4767	2	KED
|	**Cu**	**63**	**19.810**	ug/L	0.617	3	43	86810	1	KED
|	**Cu**	**65**	**19.924**	ug/L	0.406	2	30	44058	2	KED
|	**Zn**	**66**	**19.808**	ug/L	0.324	1	36	10528	1	KED
|	**Zn**	**67**	**20.108**	ug/L	0.353	1	6	1742	0	KED
⌊	**As**	**75**	**19.858**	ug/L	0.037	0	3	4985	1	KED
	Y	**89**		ug/L			40261	40956	0	Standard
	Kr	**83**		ug/L			50	36	10	Standard
⌈>	**In-1**	**115**		ug/L			6674	6162	6	KED
|	**Cd**	**111**	**19.961**	ug/L	1.156	5	2	4594	0	KED
⌊	**Cd**	**114**	**19.948**	ug/L	1.052	5	3	11699	1	KED
⌈>	**In**	**115**		ug/L			458892	442261	2	Standard
|	**Ag**	**107**	**19.961**	ug/L	0.488	2	13	284872	2	Standard
|	**Ba**	**135**	**19.961**	ug/L	0.460	2	43	106756	1	Standard
⌊	**Ba**	**137**	**20.053**	ug/L	0.424	2	78	190616	0	Standard
⌈>	**Tb**	**159**		ug/L			181387	182067	1	Standard
⌊	**Pb**	**208**	**19.912**	ug/L	0.188	0	323	1763795	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:15:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	27882	6	Standard
	Cl	**37**		ug/L			2929441	3034849	2	Standard
⌈>	**Sc**	**45**		ug/L			500966	458587	1	Standard
|	**Cr**	**52**	**49.922**	ug/L	1.876	3	9079	629334	1	Standard
|	**Cr**	**53**	**50.053**	ug/L	0.603	1	93	72681	0	Standard
⌊	**Mn**	**55**	**49.996**	ug/L	0.842	1	264	898883	1	Standard
⌈>	**Ge**	**72**		ug/L			31052	29579	0	KED
|	**Ni**	**60**	**49.802**	ug/L	0.895	1	26	69689	2	KED
|	**Ni**	**62**	**49.780**	ug/L	1.236	2	6	11116	3	KED
|	**Cu**	**63**	**49.652**	ug/L	0.326	0	43	199706	1	KED
|	**Cu**	**65**	**49.521**	ug/L	0.703	1	30	99217	1	KED
|	**Zn**	**66**	**49.752**	ug/L	0.177	0	36	24501	0	KED
|	**Zn**	**67**	**49.966**	ug/L	1.333	2	6	4090	1	KED
⌊	**As**	**75**	**49.927**	ug/L	0.338	0	3	11813	0	KED
	Y	**89**		ug/L			40261	39593	0	Standard
	Kr	**83**		ug/L			50	45	19	Standard
⌈>	**In-1**	**115**		ug/L			6674	6012	0	KED
|	**Cd**	**111**	**49.812**	ug/L	0.438	0	2	11006	1	KED
⌊	**Cd**	**114**	**49.795**	ug/L	0.668	1	3	27985	0	KED
⌈>	**In**	**115**		ug/L			458892	422438	0	Standard
|	**Ag**	**107**	**49.993**	ug/L	1.404	2	13	681007	2	Standard
|	**Ba**	**135**	**49.990**	ug/L	0.567	1	43	255103	0	Standard
⌊	**Ba**	**137**	**49.864**	ug/L	1.049	2	78	446649	1	Standard
⌈>	**Tb**	**159**		ug/L			181387	174003	0	Standard
⌊	**Pb**	**208**	**50.004**	ug/L	0.350	0	323	4234634	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:21:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	34721	5	Standard
	Cl	**37**		ug/L			2929441	3166160	3	Standard
⌈>	**Sc**	**45**		ug/L			500966	449933	0	Standard
|	**Cr**	**52**	**99.986**	ug/L	2.146	2	9079	1228563	2	Standard
|	**Cr**	**53**	**99.676**	ug/L	2.337	2	93	140446	3	Standard
⌊	**Mn**	**55**	**100.252**	ug/L	0.264	0	264	1783305	0	Standard
⌈>	**Ge**	**72**		ug/L			31052	28460	0	KED
|	**Ni**	**60**	**100.032**	ug/L	0.974	0	26	134792	1	KED
|	**Ni**	**62**	**99.699**	ug/L	0.385	0	6	21199	0	KED
|	**Cu**	**63**	**99.310**	ug/L	1.347	1	43	375622	0	KED
|	**Cu**	**65**	**99.902**	ug/L	1.609	1	30	191910	0	KED
|	**Zn**	**66**	**99.787**	ug/L	2.048	2	36	46918	1	KED
|	**Zn**	**67**	**99.193**	ug/L	0.682	0	6	7606	0	KED
⌊	**As**	**75**	**100.196**	ug/L	1.478	1	3	22957	0	KED
	Y	**89**		ug/L			40261	38715	1	Standard
	Kr	**83**		ug/L			50	53	10	Standard
⌈>	**In-1**	**115**		ug/L			6674	5881	2	KED
|	**Cd**	**111**	**99.523**	ug/L	0.347	0	2	21169	2	KED
⌊	**Cd**	**114**	**99.612**	ug/L	1.244	1	3	54050	1	KED
⌈>	**In**	**115**		ug/L			458892	403500	0	Standard
|	**Ag**	**107**	**100.284**	ug/L	0.965	0	13	1317556	1	Standard
|	**Ba**	**135**	**100.098**	ug/L	1.034	1	43	489484	0	Standard
⌊	**Ba**	**137**	**100.577**	ug/L	1.052	1	78	877436	1	Standard
⌈>	**Tb**	**159**		ug/L			181387	168275	2	Standard
⌊	**Pb**	**208**	**99.769**	ug/L	2.754	2	323	8104275	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:29:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	27815	3	Standard
	Cl	**37**		ug/L			2929441	2895451	4	Standard
⌈>	**Sc**	**45**		ug/L			500966	437362	3	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.030	72	9079	8419	7	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.037	599	93	91	59	Standard
⌊	**Mn**	**55**	**0.029**	ug/L	0.051	179	264	743	124	Standard
⌈>	**Ge**	**72**		ug/L			31052	28653	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.010	401	26	27	47	KED
|	**Ni**	**62**	**0.005**	ug/L	0.005	97	6	6	15	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	188	43	48	34	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.002	37	30	20	14	KED
|	**Zn**	**66**	**-0.016**	ug/L	0.023	147	36	26	41	KED
|	**Zn**	**67**	**-0.034**	ug/L	0.025	72	6	3	50	KED
⌊	**As**	**75**	**0.011**	ug/L	0.009	76	3	5	36	KED
	Y	**89**		ug/L			40261	37510	2	Standard
	Kr	**83**		ug/L			50	50	13	Standard
⌈>	**In-1**	**115**		ug/L			6674	5933	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	259	2	3	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	367	3	3	35	KED
⌈>	**In**	**115**		ug/L			458892	409881	3	Standard
|	**Ag**	**107**	**0.035**	ug/L	0.051	145	13	488	142	Standard
|	**Ba**	**135**	**0.021**	ug/L	0.038	176	43	145	130	Standard
⌊	**Ba**	**137**	**0.022**	ug/L	0.042	189	78	267	139	Standard
⌈>	**Tb**	**159**		ug/L			181387	165152	2	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.032	172	323	1800	144	Standard

Sample Information

Sample Date/Time: Thursday, May 11, 2023 14:21:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.027	0.50	10	20	50	100
Cr	53	**1.0000**	0.003	0.50	10	20	50	100
Mn	55	**1.0000**	0.040	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.047	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**0.9999**	0.133	0.50	10	20	50	100
Cu	65	**0.9999**	0.067	0.50	10	20	50	100
Zn	66	**1.0000**	0.017	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.092	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.033	0.20	10	20	50	100
Ba	135	**1.0000**	0.012	0.50	10	20	50	100
Ba	137	**0.9999**	0.022	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.483	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:34:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	32734	2	Standard
	Cl	**37**		ug/L			2929441	3121402	2	Standard
>	**Sc**	**45**		ug/L			500966	460267	1	Standard
	Cr	**52**	**51.318**	ug/L	0.712	1	9079	649020	0	Standard
	Cr	**53**	**51.236**	ug/L	0.611	1	93	73879	0	Standard
	Mn	**55**	**51.172**	ug/L	0.995	1	264	931167	1	Standard
>	**Ge**	**72**		ug/L			31052	29525	1	KED
	Ni	**60**	**52.057**	ug/L	0.958	1	26	72781	1	KED
	Ni	**62**	**52.067**	ug/L	1.276	2	6	11487	2	KED
	Cu	**63**	**52.782**	ug/L	0.236	0	43	207145	1	KED
	Cu	**65**	**51.949**	ug/L	0.255	0	30	103549	1	KED
	Zn	**66**	**50.602**	ug/L	1.227	2	36	24700	2	KED
	Zn	**67**	**50.874**	ug/L	3.016	5	6	4052	6	KED
	As	**75**	**48.312**	ug/L	0.218	0	3	11486	1	KED
	Y	**89**		ug/L			40261	39977	0	Standard
	Kr	**83**		ug/L			50	42	20	Standard
>	**In-1**	**115**		ug/L			6674	6124	0	KED
	Cd	**111**	**50.931**	ug/L	1.126	2	2	11283	2	KED
	Cd	**114**	**50.926**	ug/L	1.309	2	3	28780	2	KED
>	**In**	**115**		ug/L			458892	418731	1	Standard
	Ag	**107**	**51.018**	ug/L	0.913	1	13	695521	1	Standard
	Ba	**135**	**50.635**	ug/L	0.899	1	43	256949	0	Standard
	Ba	**137**	**51.005**	ug/L	0.239	0	78	461777	0	Standard
>	**Tb**	**159**		ug/L			181387	173193	1	Standard
	Pb	**208**	**51.355**	ug/L	1.100	2	323	4294627	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:42:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	27252	2	Standard
	Cl	**37**		ug/L			2929441	2901324	2	Standard
⌈>	**Sc**	**45**		ug/L			500966	435323	2	Standard
|	**Cr**	**52**	**0.031**	ug/L	0.014	45	9079	8249	2	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.002	27	93	71	0	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	81	264	219	2	Standard
⌈>	**Ge**	**72**		ug/L			31052	29290	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.004	1473	26	24	20	KED
|	**Ni**	**62**	**0.019**	ug/L	0.014	72	6	10	28	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.001	17	43	24	12	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.000	1	30	13	0	KED
|	**Zn**	**66**	**0.000**	ug/L	0.009	2333	36	34	11	KED
|	**Zn**	**67**	**-0.051**	ug/L	0.014	28	6	2	43	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	257	3	3	37	KED
	Y	**89**		ug/L			40261	37372	2	Standard
	Kr	**83**		ug/L			50	38	10	Standard
⌈>	**In-1**	**115**		ug/L			6674	6114	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.015	382	2	3	95	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	438	3	3	34	KED
⌈>	**In**	**115**		ug/L			458892	415249	2	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.000	8	13	63	9	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.003	537	43	36	37	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.001	158	78	62	18	Standard
⌈>	**Tb**	**159**		ug/L			181387	163951	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	113	323	249	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:46:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27246	4	Standard
	Cl	**37**		ug/L				2837394	3	Standard
⎡>	**Sc**	**45**		ug/L				433133	1	Standard
⎢	**Cr**	**52**		ug/L				8166	2	Standard
⎢	**Cr**	**53**		ug/L				76	12	Standard
⎣	**Mn**	**55**		ug/L				206	7	Standard
⎡>	**Ge**	**72**		ug/L				28633	1	KED
⎢	**Ni**	**60**		ug/L				24	13	KED
⎢	**Ni**	**62**		ug/L				1	86	KED
⎢	**Cu**	**63**		ug/L				24	19	KED
⎢	**Cu**	**65**		ug/L				15	33	KED
⎢	**Zn**	**66**		ug/L				23	32	KED
⎢	**Zn**	**67**		ug/L				6	124	KED
⎣	**As**	**75**		ug/L				1	78	KED
	Y	**89**		ug/L				37407	4	Standard
	Kr	**83**		ug/L				39	7	Standard
⎡>	**In-1**	**115**		ug/L				6039	1	KED
⎢	**Cd**	**111**		ug/L				2	145	KED
⎣	**Cd**	**114**		ug/L				2	117	KED
⎡>	**In**	**115**		ug/L				409433	1	Standard
⎢	**Ag**	**107**		ug/L				34	22	Standard
⎢	**Ba**	**135**		ug/L				38	7	Standard
⎣	**Ba**	**137**		ug/L				64	17	Standard
⎡>	**Tb**	**159**		ug/L				161761	1	Standard
⎣	**Pb**	**208**		ug/L				227	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:54:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27289	5	Standard
⎡>	**Sc**	**45**		ug/L				453480	1	Standard
⎢	**Cr**	**52**		ug/L				8256	1	Standard
⎢	**Cr**	**53**		ug/L				77	3	Standard
⎣	**Mn**	**55**		ug/L				193	3	Standard
⎡>	**Ge**	**72**		ug/L				28304	1	KED
⎢	**Ni**	**60**		ug/L				22	14	KED
⎢	**Ni**	**62**		ug/L				1	86	KED
⎢	**Cu**	**63**		ug/L				24	44	KED
⎢	**Cu**	**65**		ug/L				12	18	KED
⎢	**Zn**	**66**		ug/L				26	18	KED
⎢	**Zn**	**67**		ug/L				5	0	KED
⎣	**As**	**75**		ug/L				2	10	KED
	Y	**89**		ug/L				38013	1	Standard
	Kr	**83**		ug/L				36	13	Standard
⎡>	**In-1**	**115**		ug/L				5725	0	KED
⎢	**Cd**	**111**		ug/L				4	70	KED
⎣	**Cd**	**114**		ug/L				3	87	KED
⎡>	**In**	**115**		ug/L				411490	1	Standard
⎢	**Ag**	**107**		ug/L				27	3	Standard
⎢	**Ba**	**135**		ug/L				32	0	Standard
⎣	**Ba**	**137**		ug/L				62	16	Standard
⎡>	**Tb**	**159**		ug/L				164240	3	Standard
⎣	**Pb**	**208**		ug/L				214	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, May 11, 2023 14:59:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27289	27062	2	Standard
> Sc	45		ug/L			453480	440161	7	Standard
Cr	52	50.337	ug/L	3.140	6	8256	607294	2	Standard
Cr	53	51.443	ug/L	3.485	6	77	70699	1	Standard
Mn	55	50.441	ug/L	2.492	4	193	875712	2	Standard
> Ge	72		ug/L			28304	29116	2	KED
Ni	60	50.025	ug/L	0.415	0	22	68966	2	KED
Ni	62	50.660	ug/L	1.091	2	1	11014	1	KED
Cu	63	50.669	ug/L	0.680	1	24	196030	1	KED
Cu	65	50.092	ug/L	1.903	3	12	98378	1	KED
Zn	66	50.553	ug/L	1.736	3	26	24313	1	KED
Zn	67	51.938	ug/L	2.526	4	5	4074	3	KED
As	75	49.544	ug/L	1.372	2	2	11609	0	KED
Y	89		ug/L			38013	37634	8	Standard
Kr	83		ug/L			36	52	23	Standard
> In-1	115		ug/L			5725	6030	2	KED
Cd	111	50.347	ug/L	1.224	2	4	10979	0	KED
Cd	114	50.833	ug/L	1.154	2	3	28277	0	KED
> In	115		ug/L			411490	395011	7	Standard
Ag	107	51.162	ug/L	2.079	4	27	656715	3	Standard
Ba	135	51.093	ug/L	2.849	5	32	243997	3	Standard
Ba	137	50.478	ug/L	3.171	6	62	429804	1	Standard
> Tb	159		ug/L			164240	165110	7	Standard
Pb	208	51.095	ug/L	3.200	6	214	4061166	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:06:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	28083	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	460376	2	Standard
|	**Cr**	**52**	**49.268**	ug/L	0.237	0	8256	623624	2	Standard
|	**Cr**	**53**	**48.687**	ug/L	0.344	0	77	70224	2	Standard
⌊	**Mn**	**55**	**49.182**	ug/L	0.910	1	193	895012	1	Standard
⌈>	**Ge**	**72**		ug/L			28304	29239	2	KED
|	**Ni**	**60**	**50.169**	ug/L	0.848	1	22	69473	3	KED
|	**Ni**	**62**	**50.974**	ug/L	1.193	2	1	11133	3	KED
|	**Cu**	**63**	**50.018**	ug/L	0.409	0	24	194361	1	KED
|	**Cu**	**65**	**49.969**	ug/L	0.555	1	12	98612	1	KED
|	**Zn**	**66**	**50.950**	ug/L	0.867	1	26	24617	0	KED
|	**Zn**	**67**	**50.684**	ug/L	0.714	1	5	3994	0	KED
⌊	**As**	**75**	**49.714**	ug/L	0.612	1	2	11702	0	KED
	Y	**89**		ug/L			38013	39217	2	Standard
	Kr	**83**		ug/L			36	42	25	Standard
⌈>	**In-1**	**115**		ug/L			5725	6156	1	KED
|	**Cd**	**111**	**50.268**	ug/L	0.769	1	4	11197	1	KED
⌊	**Cd**	**114**	**49.967**	ug/L	0.817	1	3	28389	1	KED
⌈>	**In**	**115**		ug/L			411490	411382	1	Standard
|	**Ag**	**107**	**50.038**	ug/L	0.943	1	27	670246	2	Standard
|	**Ba**	**135**	**48.789**	ug/L	1.142	2	32	243298	3	Standard
⌊	**Ba**	**137**	**49.603**	ug/L	0.657	1	62	441251	2	Standard
⌈>	**Tb**	**159**		ug/L			164240	172225	2	Standard
⌊	**Pb**	**208**	**49.434**	ug/L	0.951	1	214	4111011	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:13:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	27314	3	Standard
⌈>	**Sc**	**45**		ug/L			453480	456632	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.009	627	8256	8331	1	Standard
|	**Cr**	**53**	**-0.012**	ug/L	0.007	63	77	61	18	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	58	193	228	9	Standard
⌈>	**Ge**	**72**		ug/L			28304	29402	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.009	676	22	25	45	KED
|	**Ni**	**62**	**0.017**	ug/L	0.019	107	1	5	78	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	47	24	36	16	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	167	12	16	40	KED
|	**Zn**	**66**	**0.011**	ug/L	0.007	64	26	32	11	KED
|	**Zn**	**67**	**0.005**	ug/L	0.015	286	5	6	17	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	26	2	4	11	KED
	Y	**89**		ug/L			38013	38102	2	Standard
	Kr	**83**		ug/L			36	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5725	6168	0	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.007	51	4	1	91	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	89	3	1	103	KED
⌈>	**In**	**115**		ug/L			411490	415787	1	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.000	15	27	70	9	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	81	32	43	20	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	97	62	74	14	Standard
⌈>	**Tb**	**159**		ug/L			164240	164798	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	46	214	285	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:18:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	31340	3	Standard
⌈>	**Sc**	**45**		ug/L			453480	457759	1	Standard
|	**Cr**	**52**	**0.497**	ug/L	0.030	6	8256	14505	1	Standard
|	**Cr**	**53**	**0.480**	ug/L	0.006	1	77	766	2	Standard
⌊	**Mn**	**55**	**0.503**	ug/L	0.008	1	193	9302	0	Standard
⌈>	**Ge**	**72**		ug/L			28304	29147	0	KED
|	**Ni**	**60**	**0.526**	ug/L	0.038	7	22	749	6	KED
|	**Ni**	**62**	**0.510**	ug/L	0.024	4	1	112	5	KED
|	**Cu**	**63**	**0.700**	ug/L	0.033	4	24	2736	4	KED
|	**Cu**	**65**	**0.654**	ug/L	0.037	5	12	1299	5	KED
|	**Zn**	**66**	**6.516**	ug/L	0.092	1	26	3162	1	KED
|	**Zn**	**67**	**5.954**	ug/L	0.279	4	5	473	4	KED
⌊	**As**	**75**	**0.199**	ug/L	0.021	10	2	49	9	KED
	Y	**89**		ug/L			38013	38127	2	Standard
	Kr	**83**		ug/L			36	44	40	Standard
⌈>	**In-1**	**115**		ug/L			5725	5964	0	KED
|	**Cd**	**111**	**0.083**	ug/L	0.014	16	4	22	13	KED
⌊	**Cd**	**114**	**0.085**	ug/L	0.020	23	3	50	21	KED
⌈>	**In**	**115**		ug/L			411490	416552	1	Standard
|	**Ag**	**107**	**0.206**	ug/L	0.010	4	27	2817	4	Standard
|	**Ba**	**135**	**0.486**	ug/L	0.006	1	32	2485	1	Standard
⌊	**Ba**	**137**	**0.497**	ug/L	0.008	1	62	4542	2	Standard
⌈>	**Tb**	**159**		ug/L			164240	163726	0	Standard
⌊	**Pb**	**208**	**0.113**	ug/L	0.001	0	214	9144	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:23:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	97217	3	Standard
>	**Sc**	**45**		ug/L			453480	450990	1	Standard
	Cr	**52**	**0.619**	ug/L	0.009	1	8256	15784	2	Standard
	Cr	**53**	**1.691**	ug/L	0.026	1	77	2463	3	Standard
	Mn	**55**	**0.128**	ug/L	0.002	1	193	2482	1	Standard
>	**Ge**	**72**		ug/L			28304	27762	1	KED
	Ni	**60**	**0.098**	ug/L	0.014	14	22	151	12	KED
	Ni	**62**	**0.126**	ug/L	0.038	30	1	27	28	KED
	Cu	**63**	**0.045**	ug/L	0.008	17	24	189	14	KED
	Cu	**65**	**0.054**	ug/L	0.007	13	12	112	11	KED
	Zn	**66**	**0.231**	ug/L	0.023	10	26	131	7	KED
	Zn	**67**	**0.163**	ug/L	0.041	25	5	17	16	KED
	As	**75**	**0.021**	ug/L	0.011	52	2	7	35	KED
	Y	**89**		ug/L			38013	38861	1	Standard
	Kr	**83**		ug/L			36	71	17	Standard
>	**In-1**	**115**		ug/L			5725	5764	1	KED
	Cd	**111**	**0.047**	ug/L	0.016	33	4	13	21	KED
	Cd	**114**	**0.044**	ug/L	0.005	11	3	27	8	KED
>	**In**	**115**		ug/L			411490	393779	0	Standard
	Ag	**107**	**0.004**	ug/L	0.002	42	27	79	28	Standard
	Ba	**135**	**0.107**	ug/L	0.010	9	32	544	9	Standard
	Ba	**137**	**0.101**	ug/L	0.006	6	62	920	6	Standard
>	**Tb**	**159**		ug/L			164240	161181	0	Standard
	Pb	**208**	**0.017**	ug/L	0.001	6	214	1535	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:28:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	95582	3	Standard
⌈>	**Sc**	**45**		ug/L			453480	451501	3	Standard
|	**Cr**	**52**	**19.309**	ug/L	0.190	0	8256	244658	2	Standard
|	**Cr**	**53**	**20.701**	ug/L	0.085	0	77	29324	3	Standard
⌊	**Mn**	**55**	**19.005**	ug/L	0.376	1	193	339259	1	Standard
⌈>	**Ge**	**72**		ug/L			28304	27187	1	KED
|	**Ni**	**60**	**20.096**	ug/L	0.486	2	22	25881	1	KED
|	**Ni**	**62**	**20.993**	ug/L	0.239	1	1	4264	1	KED
|	**Cu**	**63**	**20.032**	ug/L	0.187	0	24	72395	1	KED
|	**Cu**	**65**	**20.081**	ug/L	0.166	0	12	36858	1	KED
|	**Zn**	**66**	**19.222**	ug/L	0.170	0	26	8652	0	KED
|	**Zn**	**67**	**18.232**	ug/L	0.644	3	5	1339	3	KED
⌊	**As**	**75**	**19.554**	ug/L	0.554	2	2	4280	1	KED
	Y	**89**		ug/L			38013	38083	1	Standard
	Kr	**83**		ug/L			36	75	20	Standard
⌈>	**In-1**	**115**		ug/L			5725	5656	2	KED
|	**Cd**	**111**	**18.852**	ug/L	0.493	2	4	3859	1	KED
⌊	**Cd**	**114**	**18.980**	ug/L	0.824	4	3	9903	2	KED
⌈>	**In**	**115**		ug/L			411490	394438	3	Standard
|	**Ag**	**107**	**18.557**	ug/L	0.095	0	27	238342	3	Standard
|	**Ba**	**135**	**0.109**	ug/L	0.004	3	32	553	6	Standard
⌊	**Ba**	**137**	**0.103**	ug/L	0.003	3	62	939	2	Standard
⌈>	**Tb**	**159**		ug/L			164240	161935	2	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.001	6	214	1687	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:32:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	31805	1	Standard
⌈>	**Sc**	**45**		ug/L			453480	454340	1	Standard
|	**Cr**	**52**	**193.447**	ug/L	1.846	0	8256	2392229	0	Standard
|	**Cr**	**53**	**189.875**	ug/L	3.302	1	77	269997	0	Standard
⌊	**Mn**	**55**	**197.868**	ug/L	1.246	0	193	3553689	1	Standard
⌈>	**Ge**	**72**		ug/L			28304	27450	1	KED
|	**Ni**	**60**	**192.267**	ug/L	5.856	3	22	249819	2	KED
|	**Ni**	**62**	**196.530**	ug/L	4.033	2	1	40290	0	KED
|	**Cu**	**63**	**191.286**	ug/L	3.025	1	24	697752	0	KED
|	**Cu**	**65**	**190.234**	ug/L	3.652	1	12	352415	0	KED
|	**Zn**	**66**	**192.981**	ug/L	3.879	2	26	87475	0	KED
|	**Zn**	**67**	**189.380**	ug/L	2.775	1	5	14001	1	KED
⌊	**As**	**75**	**197.010**	ug/L	2.672	1	2	43533	0	KED
	Y	**89**		ug/L			38013	39134	3	Standard
	Kr	**83**		ug/L			36	62	16	Standard
⌈>	**In-1**	**115**		ug/L			5725	5844	2	KED
|	**Cd**	**111**	**192.594**	ug/L	5.941	3	4	40691	1	KED
⌊	**Cd**	**114**	**193.758**	ug/L	8.282	4	3	104415	1	KED
⌈>	**In**	**115**		ug/L			411490	380931	1	Standard
|	**Ag**	**107**	**200.601**	ug/L	2.547	1	27	2487769	0	Standard
|	**Ba**	**135**	**198.373**	ug/L	1.293	0	32	915840	2	Standard
⌊	**Ba**	**137**	**195.380**	ug/L	0.838	0	62	1609046	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	163550	1	Standard
⌊	**Pb**	**208**	**195.400**	ug/L	2.950	1	214	15432200	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:37:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	33722	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	441731	1	Standard
|	**Cr**	**52**	**305.091**	ug/L	5.565	1	8256	3663729	2	Standard
|	**Cr**	**53**	**291.524**	ug/L	3.403	1	77	403107	2	Standard
⌊	**Mn**	**55**	**309.118**	ug/L	3.307	1	193	5397400	0	Standard
⌈>	**Ge**	**72**		ug/L			28304	27437	2	KED
|	**Ni**	**60**	**286.248**	ug/L	4.261	1	22	371797	2	KED
|	**Ni**	**62**	**294.176**	ug/L	9.832	3	1	60269	2	KED
|	**Cu**	**63**	**283.486**	ug/L	4.433	1	24	1033499	1	KED
|	**Cu**	**65**	**282.457**	ug/L	3.737	1	12	522986	0	KED
|	**Zn**	**66**	**280.790**	ug/L	3.654	1	26	127206	1	KED
|	**Zn**	**67**	**275.224**	ug/L	2.531	0	5	20333	1	KED
⌊	**As**	**75**	**296.499**	ug/L	4.791	1	2	65477	0	KED
	Y	**89**		ug/L			38013	36418	0	Standard
	Kr	**83**		ug/L			36	125	5	Standard
⌈>	**In-1**	**115**		ug/L			5725	5693	1	KED
|	**Cd**	**111**	**284.581**	ug/L	0.587	0	4	58604	1	KED
⌊	**Cd**	**114**	**287.279**	ug/L	2.990	1	3	150943	2	KED
⌈>	**In**	**115**		ug/L			411490	368922	1	Standard
|	**Ag**	**107**	**295.425**	ug/L	4.404	1	27	3548209	0	Standard
|	**Ba**	**135**	**285.410**	ug/L	2.244	0	32	1275959	0	Standard
⌊	**Ba**	**137**	**297.174**	ug/L	7.652	2	62	2369613	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	153395	0	Standard
⌊	**Pb**	**208**	**299.935**	ug/L	6.119	2	214	22217572	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:50:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	32080	5	Standard
>	**Sc**	**45**		ug/L			453480	462017	3	Standard
	Cr	**52**	**0.029**	ug/L	0.011	37	8256	8782	4	Standard
	Cr	**53**	**0.033**	ug/L	0.009	27	77	126	12	Standard
	Mn	**55**	**0.008**	ug/L	0.000	4	193	346	5	Standard
>	**Ge**	**72**		ug/L			28304	31188	2	KED
	Ni	**60**	**0.010**	ug/L	0.003	31	22	40	12	KED
	Ni	**62**	**0.018**	ug/L	0.028	152	1	5	115	KED
	Cu	**63**	**0.005**	ug/L	0.002	33	24	46	14	KED
	Cu	**65**	**0.008**	ug/L	0.004	50	12	31	30	KED
	Zn	**66**	**0.067**	ug/L	0.033	48	26	63	27	KED
	Zn	**67**	**0.030**	ug/L	0.033	107	5	8	32	KED
	As	**75**	**0.035**	ug/L	0.003	8	2	11	8	KED
	Y	**89**		ug/L			38013	37074	2	Standard
	Kr	**83**		ug/L			36	41	16	Standard
>	**In-1**	**115**		ug/L			5725	6678	0	KED
	Cd	**111**	**0.344**	ug/L	0.610	177	4	88	167	KED
	Cd	**114**	**0.415**	ug/L	0.712	171	3	260	168	KED
>	**In**	**115**		ug/L			411490	405907	5	Standard
	Ag	**107**	**0.008**	ug/L	0.000	4	27	138	3	Standard
	Ba	**135**	**0.011**	ug/L	0.002	15	32	84	9	Standard
	Ba	**137**	**0.012**	ug/L	0.001	10	62	166	9	Standard
>	**Tb**	**159**		ug/L			164240	165413	2	Standard
	Pb	**208**	**0.007**	ug/L	0.001	7	214	765	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:56:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	32817	6	Standard
⌈>	**Sc**	**45**		ug/L			453480	465595	0	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.029	89	8256	8891	4	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.008	36	77	112	10	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	16	193	324	6	Standard
⌈>	**Ge**	**72**		ug/L			28304	30609	0	KED
|	**Ni**	**60**	**0.006**	ug/L	0.004	63	22	33	16	KED
|	**Ni**	**62**	**0.022**	ug/L	0.005	21	1	6	17	KED
|	**Cu**	**63**	**0.007**	ug/L	0.001	12	24	53	7	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	42	12	24	20	KED
|	**Zn**	**66**	**0.061**	ug/L	0.030	49	26	59	25	KED
|	**Zn**	**67**	**0.110**	ug/L	0.022	20	5	15	12	KED
⌊	**As**	**75**	**0.017**	ug/L	0.009	50	2	6	30	KED
	Y	**89**		ug/L			38013	37828	1	Standard
	Kr	**83**		ug/L			36	46	19	Standard
⌈>	**In-1**	**115**		ug/L			5725	6380	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.009	141	4	3	62	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	208	3	3	71	KED
⌈>	**In**	**115**		ug/L			411490	411081	2	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.001	38	27	61	18	Standard
|	**Ba**	**135**	**0.009**	ug/L	0.000	2	32	76	1	Standard
⌊	**Ba**	**137**	**0.008**	ug/L	0.001	19	62	129	8	Standard
⌈>	**Tb**	**159**		ug/L			164240	168060	0	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	6	214	699	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:02:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	28875	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	482814	0	Standard
|	**Cr**	**52**	**48.915**	ug/L	1.071	2	8256	649472	2	Standard
|	**Cr**	**53**	**48.922**	ug/L	0.840	1	77	74007	2	Standard
⌊	**Mn**	**55**	**48.618**	ug/L	1.178	2	193	928265	3	Standard
⌈>	**Ge**	**72**		ug/L			28304	31467	1	KED
|	**Ni**	**60**	**47.900**	ug/L	0.847	1	22	71376	2	KED
|	**Ni**	**62**	**48.879**	ug/L	1.757	3	1	11486	2	KED
|	**Cu**	**63**	**48.723**	ug/L	0.352	0	24	203768	0	KED
|	**Cu**	**65**	**48.305**	ug/L	0.286	0	12	102604	1	KED
|	**Zn**	**66**	**49.318**	ug/L	0.810	1	26	25649	1	KED
|	**Zn**	**67**	**49.869**	ug/L	0.085	0	5	4231	1	KED
⌊	**As**	**75**	**48.603**	ug/L	0.330	0	2	12314	0	KED
	Y	**89**		ug/L			38013	39328	2	Standard
	Kr	**83**		ug/L			36	48	6	Standard
⌈>	**In-1**	**115**		ug/L			5725	6414	1	KED
|	**Cd**	**111**	**48.597**	ug/L	0.674	1	4	11277	0	KED
⌊	**Cd**	**114**	**47.948**	ug/L	0.913	1	3	28379	0	KED
⌈>	**In**	**115**		ug/L			411490	417201	1	Standard
|	**Ag**	**107**	**49.941**	ug/L	0.254	0	27	678388	1	Standard
|	**Ba**	**135**	**50.373**	ug/L	0.671	1	32	254680	0	Standard
⌊	**Ba**	**137**	**50.599**	ug/L	0.533	1	62	456395	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	175544	1	Standard
⌊	**Pb**	**208**	**48.892**	ug/L	0.986	2	214	4144705	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:09:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	27823	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	465227	3	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.021	141	8256	8652	0	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.006	536	77	81	8	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	58	193	232	8	Standard
⌈>	**Ge**	**72**		ug/L			28304	30317	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.007	437	22	26	35	KED
|	**Ni**	**62**	**0.016**	ug/L	0.005	30	1	5	21	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	88	24	32	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	42	12	22	17	KED
|	**Zn**	**66**	**0.047**	ug/L	0.018	38	26	51	18	KED
|	**Zn**	**67**	**0.057**	ug/L	0.047	82	5	10	36	KED
⌊	**As**	**75**	**0.016**	ug/L	0.005	33	2	6	18	KED
	Y	**89**		ug/L			38013	37122	1	Standard
	Kr	**83**		ug/L			36	37	32	Standard
⌈>	**In-1**	**115**		ug/L			5725	6495	4	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.006	118	4	3	41	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	61	3	2	45	KED
⌈>	**In**	**115**		ug/L			411490	406741	3	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	22	27	74	16	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.001	26	32	47	6	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.000	28	62	73	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	165879	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	24	214	357	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:15:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27225	3	Standard
⎡>	**Sc**	**45**		ug/L				460122	1	Standard
⎢	**Cr**	**52**		ug/L				8551	1	Standard
⎢	**Cr**	**53**		ug/L				93	7	Standard
⎣	**Mn**	**55**		ug/L				219	2	Standard
⎡>	**Ge**	**72**		ug/L				30494	0	KED
⎢	**Ni**	**60**		ug/L				28	24	KED
⎢	**Ni**	**62**		ug/L				3	0	KED
⎢	**Cu**	**63**		ug/L				26	37	KED
⎢	**Cu**	**65**		ug/L				10	54	KED
⎢	**Zn**	**66**		ug/L				19	49	KED
⎢	**Zn**	**67**		ug/L				3	91	KED
⎣	**As**	**75**		ug/L				2	57	KED
	Y	**89**		ug/L				38927	1	Standard
	Kr	**83**		ug/L				46	28	Standard
⎡>	**In-1**	**115**		ug/L				6386	0	KED
⎢	**Cd**	**111**		ug/L				4	135	KED
⎣	**Cd**	**114**		ug/L				13	137	KED
⎡>	**In**	**115**		ug/L				414575	1	Standard
⎢	**Ag**	**107**		ug/L				42	6	Standard
⎢	**Ba**	**135**		ug/L				38	10	Standard
⎣	**Ba**	**137**		ug/L				52	20	Standard
⎡>	**Tb**	**159**		ug/L				165965	0	Standard
⎣	**Pb**	**208**		ug/L				210	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:19:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	28719	3	Standard
⌈>	**Sc**	**45**		ug/L			460122	479980	1	Standard
|	**Cr**	**52**	**48.714**	ug/L	0.892	1	8551	643070	0	Standard
|	**Cr**	**53**	**49.494**	ug/L	0.747	1	93	74427	0	Standard
⌊	**Mn**	**55**	**49.581**	ug/L	1.295	2	219	940735	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	30799	1	KED
|	**Ni**	**60**	**49.076**	ug/L	0.404	0	28	71585	1	KED
|	**Ni**	**62**	**50.137**	ug/L	0.582	1	3	11536	0	KED
|	**Cu**	**63**	**49.653**	ug/L	0.328	0	26	203267	1	KED
|	**Cu**	**65**	**49.757**	ug/L	0.853	1	10	103428	0	KED
|	**Zn**	**66**	**51.089**	ug/L	0.637	1	19	25996	0	KED
|	**Zn**	**67**	**49.790**	ug/L	0.492	0	3	4132	2	KED
⌊	**As**	**75**	**49.584**	ug/L	0.515	1	2	12295	0	KED
	Y	**89**		ug/L			38927	40383	1	Standard
	Kr	**83**		ug/L			46	45	18	Standard
⌈>	**In-1**	**115**		ug/L			6386	6468	3	KED
|	**Cd**	**111**	**48.415**	ug/L	0.738	1	4	11326	1	KED
⌊	**Cd**	**114**	**48.721**	ug/L	0.964	1	13	29080	1	KED
⌈>	**In**	**115**		ug/L			414575	414534	0	Standard
|	**Ag**	**107**	**51.238**	ug/L	1.337	2	42	691635	2	Standard
|	**Ba**	**135**	**50.227**	ug/L	0.731	1	38	252349	1	Standard
⌊	**Ba**	**137**	**50.308**	ug/L	0.936	1	52	450887	1	Standard
⌈>	**Tb**	**159**		ug/L			165965	174759	1	Standard
⌊	**Pb**	**208**	**48.648**	ug/L	1.114	2	210	4105611	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:27:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	27300	2	Standard
⌈>	**Sc**	**45**		ug/L			460122	470436	2	Standard
|	**Cr**	**52**	**-0.018**	ug/L	0.009	52	8551	8514	4	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.004	131	93	90	5	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.002	781	219	220	13	Standard
⌈>	**Ge**	**72**		ug/L			30494	30726	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.005	459	28	27	24	KED
|	**Ni**	**62**	**0.008**	ug/L	0.029	350	3	5	115	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	93	26	32	15	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	39	10	17	16	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.008	142	19	17	22	KED
|	**Zn**	**67**	**0.007**	ug/L	0.023	312	3	3	50	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	100	2	4	33	KED
	Y	**89**		ug/L			38927	38371	2	Standard
	Kr	**83**		ug/L			46	50	12	Standard
⌈>	**In-1**	**115**		ug/L			6386	6581	0	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.005	40	4	1	69	KED
⌊	**Cd**	**114**	**-0.018**	ug/L	0.004	20	13	2	74	KED
⌈>	**In**	**115**		ug/L			414575	415511	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	45	42	74	17	Standard
|	**Ba**	**135**	**0.004**	ug/L	0.002	41	38	56	14	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	31	52	67	5	Standard
⌈>	**Tb**	**159**		ug/L			165965	170390	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	210	278	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:37:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	36179	3	Standard
>	Sc	45		ug/L			460122	489899	1	Standard
	Cr	52	24.960	ug/L	0.316	1	8551	340780	0	Standard
	Cr	53	25.380	ug/L	0.338	1	93	39004	0	Standard
	Mn	55	25.393	ug/L	0.561	2	219	491901	0	Standard
>	Ge	72		ug/L			30494	32242	1	KED
	Ni	60	25.240	ug/L	0.314	1	28	38550	1	KED
	Ni	62	25.783	ug/L	0.109	0	3	6213	1	KED
	Cu	63	26.359	ug/L	0.566	2	26	112958	1	KED
	Cu	65	25.384	ug/L	0.481	1	10	55248	2	KED
	Zn	66	79.567	ug/L	1.920	2	19	42370	1	KED
	Zn	67	75.736	ug/L	2.160	2	3	6576	1	KED
	As	75	24.433	ug/L	0.538	2	2	6343	1	KED
	Y	89		ug/L			38927	40159	1	Standard
	Kr	83		ug/L			46	43	4	Standard
>	In-1	115		ug/L			6386	6957	2	KED
	Cd	111	23.957	ug/L	0.603	2	4	6030	1	KED
	Cd	114	24.072	ug/L	0.683	2	13	15459	0	KED
>	In	115		ug/L			414575	431799	0	Standard
	Ag	107	26.127	ug/L	0.824	3	42	367351	3	Standard
	Ba	135	25.404	ug/L	0.211	0	38	132968	0	Standard
	Ba	137	25.330	ug/L	0.211	0	52	236512	1	Standard
>	Tb	159		ug/L			165965	174231	1	Standard
	Pb	208	25.433	ug/L	0.192	0	210	2140092	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:42:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	40021	2	Standard
⌈>	Sc	45		ug/L			460122	473873	0	Standard
|	Cr	52	0.097	ug/L	0.010	10	8551	10051	0	Standard
|	Cr	53	0.105	ug/L	0.018	17	93	251	9	Standard
⌊	Mn	55	0.033	ug/L	0.002	5	219	837	3	Standard
⌈>	Ge	72		ug/L			30494	31264	2	KED
|	Ni	60	0.022	ug/L	0.015	70	28	60	35	KED
|	Ni	62	0.016	ug/L	0.016	103	3	7	50	KED
|	Cu	63	0.049	ug/L	0.014	29	26	232	24	KED
|	Cu	65	0.056	ug/L	0.016	28	10	128	24	KED
|	Zn	66	0.470	ug/L	0.069	14	19	262	12	KED
|	Zn	67	0.497	ug/L	0.014	2	3	45	4	KED
⌊	As	75	0.015	ug/L	0.027	177	2	6	98	KED
	Y	89		ug/L			38927	39917	0	Standard
	Kr	83		ug/L			46	39	7	Standard
⌈>	In-1	115		ug/L			6386	6540	1	KED
|	Cd	111	-0.002	ug/L	0.012	633	4	3	75	KED
⌊	Cd	114	-0.006	ug/L	0.013	209	13	9	77	KED
⌈>	In	115		ug/L			414575	415543	1	Standard
|	Ag	107	0.003	ug/L	0.000	11	42	83	6	Standard
|	Ba	135	0.026	ug/L	0.003	12	38	171	9	Standard
⌊	Ba	137	0.029	ug/L	0.003	9	52	314	6	Standard
⌈>	Tb	159		ug/L			165965	169922	1	Standard
⌊	Pb	208	0.006	ug/L	0.001	14	210	718	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:46:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	39027	2	Standard
>	Sc	45		ug/L			460122	461654	2	Standard
	Cr	52	25.238	ug/L	0.287	1	8551	324601	2	Standard
	Cr	53	25.440	ug/L	0.296	1	93	36851	3	Standard
	Mn	55	25.373	ug/L	0.120	0	219	463229	2	Standard
>	Ge	72		ug/L			30494	30211	2	KED
	Ni	60	26.185	ug/L	0.273	1	28	37483	3	KED
	Ni	62	26.338	ug/L	0.301	1	3	5947	3	KED
	Cu	63	27.433	ug/L	0.170	0	26	110164	2	KED
	Cu	65	26.596	ug/L	0.313	1	10	54234	2	KED
	Zn	66	83.932	ug/L	1.655	1	19	41884	3	KED
	Zn	67	80.250	ug/L	2.169	2	3	6529	3	KED
	As	75	25.370	ug/L	0.056	0	2	6172	2	KED
	Y	89		ug/L			38927	38192	1	Standard
	Kr	83		ug/L			46	52	11	Standard
>	In-1	115		ug/L			6386	6501	3	KED
	Cd	111	25.134	ug/L	1.192	4	4	5907	1	KED
	Cd	114	25.194	ug/L	0.793	3	13	15119	1	KED
>	In	115		ug/L			414575	410527	2	Standard
	Ag	107	25.608	ug/L	0.856	3	42	342138	0	Standard
	Ba	135	25.741	ug/L	0.306	1	38	128095	2	Standard
	Ba	137	25.254	ug/L	0.068	0	52	224183	2	Standard
>	Tb	159		ug/L			165965	165111	0	Standard
	Pb	208	25.619	ug/L	0.557	2	210	2043320	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BS TEST OLD SPIKE
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, May 11, 2023 16:51:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	40627	4	Standard
⌈>	**Sc**	**45**		ug/L			460122	458950	2	Standard
|	**Cr**	**52**	**26.766**	ug/L	0.345	1	8551	341750	2	Standard
|	**Cr**	**53**	**26.847**	ug/L	0.458	1	93	38641	0	Standard
⌊	**Mn**	**55**	**27.372**	ug/L	0.430	1	219	496744	2	Standard
⌈>	**Ge**	**72**		ug/L			30494	30230	0	KED
|	**Ni**	**60**	**27.633**	ug/L	0.426	1	28	39570	1	KED
|	**Ni**	**62**	**28.064**	ug/L	0.431	1	3	6340	1	KED
|	**Cu**	**63**	**29.127**	ug/L	0.178	0	26	117038	0	KED
|	**Cu**	**65**	**28.454**	ug/L	0.497	1	10	58061	1	KED
|	**Zn**	**66**	**89.908**	ug/L	0.386	0	19	44892	0	KED
|	**Zn**	**67**	**86.177**	ug/L	1.866	2	3	7016	1	KED
⌊	**As**	**75**	**27.188**	ug/L	0.020	0	2	6619	0	KED
	Y	**89**		ug/L			38927	38692	1	Standard
	Kr	**83**		ug/L			46	45	39	Standard
⌈>	**In-1**	**115**		ug/L			6386	6224	1	KED
|	**Cd**	**111**	**27.062**	ug/L	0.623	2	4	6094	0	KED
⌊	**Cd**	**114**	**27.613**	ug/L	0.405	1	13	15870	0	KED
⌈>	**In**	**115**		ug/L			414575	412256	1	Standard
|	**Ag**	**107**	**27.469**	ug/L	0.347	1	42	368710	1	Standard
|	**Ba**	**135**	**26.960**	ug/L	0.678	2	38	134694	1	Standard
⌊	**Ba**	**137**	**26.753**	ug/L	0.291	1	52	238470	1	Standard
⌈>	**Tb**	**159**		ug/L			165965	167858	1	Standard
⌊	**Pb**	**208**	**26.566**	ug/L	0.294	1	210	2153961	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BS TEST NEW SPIKE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:55:43

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	38854	7	Standard
⌈>	**Sc**	**45**		ug/L			460122	468192	3	Standard
|	**Cr**	**52**	**23.853**	ug/L	0.197	0	8551	311663	3	Standard
|	**Cr**	**53**	**23.892**	ug/L	0.082	0	93	35097	3	Standard
⌊	**Mn**	**55**	**24.567**	ug/L	0.042	0	219	454908	3	Standard
⌈>	**Ge**	**72**		ug/L			30494	30816	1	KED
|	**Ni**	**60**	**24.684**	ug/L	0.484	1	28	36037	2	KED
|	**Ni**	**62**	**24.520**	ug/L	0.523	2	3	5646	1	KED
|	**Cu**	**63**	**25.318**	ug/L	0.217	0	26	103704	1	KED
|	**Cu**	**65**	**25.251**	ug/L	0.532	2	10	52519	1	KED
|	**Zn**	**66**	**78.571**	ug/L	1.426	1	19	39990	1	KED
|	**Zn**	**67**	**74.287**	ug/L	2.241	3	3	6164	1	KED
⌊	**As**	**75**	**23.647**	ug/L	0.271	1	2	5868	0	KED
	Y	**89**		ug/L			38927	39003	4	Standard
	Kr	**83**		ug/L			46	53	14	Standard
⌈>	**In-1**	**115**		ug/L			6386	6281	2	KED
|	**Cd**	**111**	**24.475**	ug/L	0.467	1	4	5562	0	KED
⌊	**Cd**	**114**	**24.380**	ug/L	0.860	3	13	14138	1	KED
⌈>	**In**	**115**		ug/L			414575	423587	2	Standard
|	**Ag**	**107**	**24.883**	ug/L	0.677	2	42	343351	4	Standard
|	**Ba**	**135**	**23.986**	ug/L	0.495	2	38	123196	3	Standard
⌊	**Ba**	**137**	**23.662**	ug/L	0.444	1	52	216790	3	Standard
⌈>	**Tb**	**159**		ug/L			165965	168602	1	Standard
⌊	**Pb**	**208**	**24.317**	ug/L	0.313	1	210	1980323	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0271-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:00:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	142251	4	Standard
>	Sc	45		ug/L			460122	446369	1	Standard
	Cr	52	1.076	ug/L	0.027	2	8551	21317	1	Standard
	Cr	53	0.715	ug/L	0.034	4	93	1087	3	Standard
	Mn	55	5.426	ug/L	0.020	0	219	95958	1	Standard
>	Ge	72		ug/L			30494	28103	0	KED
	Ni	60	0.941	ug/L	0.024	2	28	1278	2	KED
	Ni	62	0.875	ug/L	0.099	11	3	187	11	KED
	Cu	63	0.069	ug/L	0.007	9	26	280	9	KED
	Cu	65	0.063	ug/L	0.007	11	10	128	10	KED
	Zn	66	0.679	ug/L	0.039	5	19	333	5	KED
	Zn	67	1.086	ug/L	0.037	3	3	85	3	KED
	As	75	0.096	ug/L	0.026	26	2	24	23	KED
	Y	89		ug/L			38927	39499	0	Standard
	Kr	83		ug/L			46	41	20	Standard
>	In-1	115		ug/L			6386	5644	1	KED
	Cd	111	-0.006	ug/L	0.010	172	4	2	78	KED
	Cd	114	-0.012	ug/L	0.008	67	13	5	79	KED
>	In	115		ug/L			414575	389922	0	Standard
	Ag	107	0.003	ug/L	0.001	22	42	83	12	Standard
	Ba	135	5.108	ug/L	0.029	0	38	24174	1	Standard
	Ba	137	5.077	ug/L	0.055	1	52	42850	1	Standard
>	Tb	159		ug/L			165965	163179	1	Standard
	Pb	208	0.011	ug/L	0.001	10	210	1069	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0239-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:05:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	40361	4	Standard
>	Sc	45		ug/L			460122	468394	2	Standard
	Cr	52	100.505	ug/L	1.370	1	8551	1285499	0	Standard
	Cr	53	102.580	ug/L	0.852	0	93	150438	1	Standard
	Mn	55	1.875	ug/L	0.033	1	219	34923	0	Standard
>	Ge	72		ug/L			30494	28568	2	KED
	Ni	60	1.933	ug/L	0.084	4	28	2638	2	KED
	Ni	62	1.986	ug/L	0.028	1	3	427	1	KED
	Cu	63	15.980	ug/L	0.165	1	26	60693	2	KED
	Cu	65	15.923	ug/L	0.257	1	10	30705	0	KED
	Zn	66	12.253	ug/L	0.340	2	19	5796	1	KED
	Zn	67	11.501	ug/L	0.878	7	3	888	9	KED
	As	75	0.246	ug/L	0.030	12	2	59	9	KED
	Y	89		ug/L			38927	38347	2	Standard
	Kr	83		ug/L			46	35	17	Standard
>	In-1	115		ug/L			6386	5914	2	KED
	Cd	111	0.242	ug/L	0.044	18	4	55	17	KED
	Cd	114	0.250	ug/L	0.010	3	13	148	5	KED
>	In	115		ug/L			414575	390354	0	Standard
	Ag	107	0.013	ug/L	0.003	21	42	200	17	Standard
	Ba	135	1.685	ug/L	0.029	1	38	8004	1	Standard
	Ba	137	1.639	ug/L	0.020	1	52	13878	1	Standard
>	Tb	159		ug/L			165965	163119	1	Standard
	Pb	208	0.270	ug/L	0.002	0	210	21458	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:10:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	31547	4	Standard
⌈>	**Sc**	**45**		ug/L			460122	443747	2	Standard
|	**Cr**	**52**	**0.140**	ug/L	0.050	35	8551	9920	3	Standard
|	**Cr**	**53**	**0.065**	ug/L	0.038	58	93	179	27	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	34	219	256	5	Standard
⌈>	**Ge**	**72**		ug/L			30494	28983	0	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	57	28	36	13	KED
|	**Ni**	**62**	**0.018**	ug/L	0.023	126	3	7	66	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	61	26	39	22	KED
|	**Cu**	**65**	**0.008**	ug/L	0.004	47	10	25	30	KED
|	**Zn**	**66**	**0.104**	ug/L	0.017	16	19	68	12	KED
|	**Zn**	**67**	**0.124**	ug/L	0.038	30	3	12	22	KED
⌊	**As**	**75**	**0.003**	ug/L	0.008	231	2	3	51	KED
	Y	**89**		ug/L			38927	38028	2	Standard
	Kr	**83**		ug/L			46	40	21	Standard
⌈>	**In-1**	**115**		ug/L			6386	5864	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.005	48	4	1	69	KED
⌊	**Cd**	**114**	**-0.013**	ug/L	0.004	30	13	4	44	KED
⌈>	**In**	**115**		ug/L			414575	408589	0	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	68	42	33	16	Standard
|	**Ba**	**135**	**0.006**	ug/L	0.003	56	38	67	24	Standard
⌊	**Ba**	**137**	**0.010**	ug/L	0.002	18	52	135	11	Standard
⌈>	**Tb**	**159**		ug/L			165965	162358	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	3	210	469	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0074-13
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:16:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49095	3	Standard
⌈>	**Sc**	**45**		ug/L			460122	458570	1	Standard
|	**Cr**	**52**	**0.121**	ug/L	0.004	3	8551	10023	0	Standard
|	**Cr**	**53**	**0.117**	ug/L	0.006	5	93	260	3	Standard
⌊	**Mn**	**55**	**62.290**	ug/L	0.696	1	219	1129343	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	29462	1	KED
|	**Ni**	**60**	**0.271**	ug/L	0.028	10	28	405	10	KED
|	**Ni**	**62**	**0.312**	ug/L	0.043	13	3	72	14	KED
|	**Cu**	**63**	**0.012**	ug/L	0.004	34	26	73	23	KED
|	**Cu**	**65**	**0.017**	ug/L	0.007	38	10	43	30	KED
|	**Zn**	**66**	**0.253**	ug/L	0.025	9	19	142	7	KED
|	**Zn**	**67**	**0.330**	ug/L	0.119	36	3	29	32	KED
⌊	**As**	**75**	**0.024**	ug/L	0.006	23	2	8	17	KED
	Y	**89**		ug/L			38927	38051	5	Standard
	Kr	**83**		ug/L			46	41	4	Standard
⌈>	**In-1**	**115**		ug/L			6386	6228	4	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	106	4	3	15	KED
⌊	**Cd**	**114**	**-0.017**	ug/L	0.004	21	13	3	72	KED
⌈>	**In**	**115**		ug/L			414575	414433	0	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	51	42	29	22	Standard
|	**Ba**	**135**	**1.303**	ug/L	0.021	1	38	6583	1	Standard
⌊	**Ba**	**137**	**1.275**	ug/L	0.021	1	52	11471	1	Standard
⌈>	**Tb**	**159**		ug/L			165965	164391	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	210	306	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:21:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	32250	3	Standard
⌈>	**Sc**	**45**		ug/L			460122	448029	3	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.015	14	8551	9535	1	Standard
|	**Cr**	**53**	**0.007**	ug/L	0.002	32	93	99	4	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.000	15	219	269	6	Standard
⌈>	**Ge**	**72**		ug/L			30494	29530	2	KED
|	**Ni**	**60**	**0.005**	ug/L	0.004	76	28	34	14	KED
|	**Ni**	**62**	**0.015**	ug/L	0.026	175	3	6	83	KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	31	26	53	15	KED
|	**Cu**	**65**	**0.009**	ug/L	0.006	67	10	27	45	KED
|	**Zn**	**66**	**0.101**	ug/L	0.022	21	19	68	16	KED
|	**Zn**	**67**	**0.145**	ug/L	0.017	11	3	14	7	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.000	2	2	1	0	KED
	Y	**89**		ug/L			38927	37386	3	Standard
	Kr	**83**		ug/L			46	36	27	Standard
⌈>	**In-1**	**115**		ug/L			6386	6171	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.002	22	4	1	34	KED
⌊	**Cd**	**114**	**-0.019**	ug/L	0.003	17	13	1	107	KED
⌈>	**In**	**115**		ug/L			414575	410481	2	Standard
|	**Ag**	**107**	**-0.002**	ug/L	0.001	39	42	17	53	Standard
|	**Ba**	**135**	**0.009**	ug/L	0.001	12	38	81	8	Standard
⌊	**Ba**	**137**	**0.010**	ug/L	0.002	16	52	140	7	Standard
⌈>	**Tb**	**159**		ug/L			165965	159373	2	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	210	454	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:25:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	28398	4	Standard
⌈>	**Sc**	**45**		ug/L			460122	469913	2	Standard
|	**Cr**	**52**	**48.856**	ug/L	0.643	1	8551	631392	1	Standard
|	**Cr**	**53**	**49.223**	ug/L	1.281	2	93	72464	2	Standard
⌊	**Mn**	**55**	**49.560**	ug/L	1.224	2	219	920566	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	30063	1	KED
|	**Ni**	**60**	**49.867**	ug/L	0.782	1	28	70999	2	KED
|	**Ni**	**62**	**50.197**	ug/L	0.689	1	3	11275	1	KED
|	**Cu**	**63**	**50.159**	ug/L	0.576	1	26	200413	0	KED
|	**Cu**	**65**	**48.899**	ug/L	0.492	1	10	99227	1	KED
|	**Zn**	**66**	**51.739**	ug/L	1.386	2	19	25699	2	KED
|	**Zn**	**67**	**50.185**	ug/L	0.498	0	3	4065	2	KED
⌊	**As**	**75**	**50.172**	ug/L	0.623	1	2	12145	1	KED
	Y	**89**		ug/L			38927	39969	1	Standard
	Kr	**83**		ug/L			46	45	37	Standard
⌈>	**In-1**	**115**		ug/L			6386	6279	1	KED
|	**Cd**	**111**	**49.539**	ug/L	0.842	1	4	11251	0	KED
⌊	**Cd**	**114**	**49.229**	ug/L	0.544	1	13	28533	0	KED
⌈>	**In**	**115**		ug/L			414575	411972	1	Standard
|	**Ag**	**107**	**50.177**	ug/L	0.802	1	42	673041	1	Standard
|	**Ba**	**135**	**49.679**	ug/L	1.413	2	38	248006	1	Standard
⌊	**Ba**	**137**	**49.119**	ug/L	1.140	2	52	437442	1	Standard
⌈>	**Tb**	**159**		ug/L			165965	171214	1	Standard
⌊	**Pb**	**208**	**49.862**	ug/L	0.645	1	210	4122760	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:32:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	27717	4	Standard
⌈>	**Sc**	**45**		ug/L			460122	450724	2	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.014	418	8551	8421	4	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.009	182	93	84	12	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	23	219	200	3	Standard
⌈>	**Ge**	**72**		ug/L			30494	29445	3	KED
|	**Ni**	**60**	**0.006**	ug/L	0.005	79	28	35	15	KED
|	**Ni**	**62**	**0.012**	ug/L	0.036	300	3	6	124	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	144	26	31	23	KED
|	**Cu**	**65**	**0.003**	ug/L	0.005	179	10	15	62	KED
|	**Zn**	**66**	**0.011**	ug/L	0.008	78	19	24	16	KED
|	**Zn**	**67**	**0.002**	ug/L	0.029	1588	3	3	69	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.001	460	2	2	10	KED
	Y	**89**		ug/L			38927	37726	1	Standard
	Kr	**83**		ug/L			46	40	4	Standard
⌈>	**In-1**	**115**		ug/L			6386	6165	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.003	78	4	3	17	KED
⌊	**Cd**	**114**	**-0.017**	ug/L	0.002	11	13	3	35	KED
⌈>	**In**	**115**		ug/L			414575	396753	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	50	42	48	9	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	114	38	46	26	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.001	13	52	86	5	Standard
⌈>	**Tb**	**159**		ug/L			165965	158887	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	54	210	264	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:42:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	61757	0	Standard
	Kr	**83**		ug/L			46	46	14	Standard
>	**Tb**	**159**		ug/L			165965	165213	1	Standard
	Pb	**208**	**0.043**	ug/L	0.001	1	210	3630	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:43:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	58213	2	Standard
	Kr	**83**		ug/L			46	52	9	Standard
>	**Tb**	**159**		ug/L			165965	164898	0	Standard
	Pb	**208**	**0.131**	ug/L	0.002	1	210	10648	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:44:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	58428	1	Standard
	Kr	**83**		ug/L			46	45	11	Standard
>	**Tb**	**159**		ug/L			165965	163874	1	Standard
	Pb	**208**	**0.109**	ug/L	0.003	2	210	8815	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-12
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:46:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	**13**		ug/L			27225	61012	1	Standard
Kr	**83**		ug/L			46	47	28	Standard
Tb	**159**		ug/L			165965	164973	2	Standard
Pb	**208**	**0.029**	ug/L	0.001	3	210	2478	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-18
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:47:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	61398	0	Standard
	Kr	**83**		ug/L			46	51	16	Standard
>	**Tb**	**159**		ug/L			165965	165020	0	Standard
	Pb	**208**	**0.197**	ug/L	0.005	2	210	15939	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-20
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:48:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	50771	1	Standard
	Kr	**83**		ug/L			46	48	13	Standard
>	**Tb**	**159**		ug/L			165965	171143	0	Standard
	Pb	**208**	**0.113**	ug/L	0.002	1	210	9556	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-DUP2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:50:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49235	1	Standard
	Kr	**83**		ug/L			46	48	43	Standard
>	**Tb**	**159**		ug/L			165965	167068	1	Standard
	Pb	**208**	**0.116**	ug/L	0.001	1	210	9571	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MS2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:51:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49614	2	Standard
	Kr	**83**		ug/L			46	50	9	Standard
>	**Tb**	**159**		ug/L			165965	170031	2	Standard
	Pb	**208**	**13.734**	ug/L	0.344	2	210	1127528	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MSD2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:53:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	48805	2	Standard
	Kr	**83**		ug/L			46	50	14	Standard
>	**Tb**	**159**		ug/L			165965	167377	0	Standard
	Pb	**208**	**13.869**	ug/L	0.177	1	210	1121192	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:54:24

TUBE EMPTY

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	27210	4	Standard
	Kr	**83**		ug/L			46	144	17	Standard
>	**Tb**	**159**		ug/L			165965	327175	4	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	9	210	260	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:55:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	34810	2	Standard
	Kr	**83**		ug/L			46	52	17	Standard
⌈>	**Tb**	**159**		ug/L			165965	161330	1	Standard
⌊	**Pb**	**208**	**50.918**	ug/L	1.253	2	210	3966283	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:59:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	34296	0	Standard
	Kr	**83**		ug/L			46	49	26	Standard
⌈>	**Tb**	**159**		ug/L			165965	159481	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	24	210	259	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:02:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44018	1	Standard
	Kr	**83**		ug/L			46	46	26	Standard
>	**Tb**	**159**		ug/L			165965	161506	3	Standard
	Pb	**208**	**0.215**	ug/L	0.005	2	210	16953	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:03:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44977	1	Standard
	Kr	**83**		ug/L			46	49	3	Standard
>	**Tb**	**159**		ug/L			165965	163185	2	Standard
	Pb	**208**	**0.528**	ug/L	0.010	1	210	41772	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-09
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:05:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44276	1	Standard
	Kr	**83**		ug/L			46	57	30	Standard
>	**Tb**	**159**		ug/L			165965	165180	0	Standard
	Pb	**208**	**0.532**	ug/L	0.007	1	210	42672	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0480-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:06:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	122185	1	Standard
	Kr	**83**		ug/L			46	67	9	Standard
>	**Tb**	**159**		ug/L			165965	154453	0	Standard
	Pb	**208**	**0.031**	ug/L	0.001	2	210	2487	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:08:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	38187	0	Standard
	Kr	**83**		ug/L			46	53	19	Standard
>	**Tb**	**159**		ug/L			165965	155231	2	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	290	210	190	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:09:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49595	1	Standard
	Kr	**83**		ug/L			46	44	8	Standard
>	**Tb**	**159**		ug/L			165965	163100	0	Standard
	Pb	**208**	**0.240**	ug/L	0.001	0	210	19113	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:10:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	51006	1	Standard
	Kr	**83**		ug/L			46	44	6	Standard
>	**Tb**	**159**		ug/L			165965	164539	0	Standard
	Pb	**208**	**0.146**	ug/L	0.002	1	210	11808	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:12:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	50541	0	Standard
	Kr	**83**		ug/L			46	42	6	Standard
>	**Tb**	**159**		ug/L			165965	165015	2	Standard
	Pb	**208**	**0.314**	ug/L	0.005	1	210	25260	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-11
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:13:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49047	2	Standard
	Kr	**83**		ug/L			46	53	25	Standard
>	**Tb**	**159**		ug/L			165965	163377	0	Standard
	Pb	**208**	**0.285**	ug/L	0.003	1	210	22689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:15:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	39344	0	Standard
	Kr	**83**		ug/L			46	51	14	Standard
>	**Tb**	**159**		ug/L			165965	155831	1	Standard
	Pb	**208**	**0.000**	ug/L	0.000	3427	210	198	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:16:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	36226	0	Standard
	Kr	**83**		ug/L			46	58	6	Standard
>	**Tb**	**159**		ug/L			165965	164187	0	Standard
	Pb	**208**	**50.229**	ug/L	0.094	0	210	3982976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:20:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	34920	2	Standard
	Kr	**83**		ug/L			46	49	10	Standard
⌈>	**Tb**	**159**		ug/L			165965	158492	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	129	210	228	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-13
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:24:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	51951	0	Standard
	Kr	**83**		ug/L			46	52	12	Standard
⌈>	**Tb**	**159**		ug/L			165965	160838	0	Standard
⌊	**Pb**	**208**	**0.115**	ug/L	0.000	0	210	9164	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-14
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:25:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	53936	0	Standard
	Kr	**83**		ug/L			46	53	22	Standard
>	**Tb**	**159**		ug/L			165965	160287	1	Standard
	Pb	**208**	**0.483**	ug/L	0.007	1	210	37574	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-16
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:26:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	56772	2	Standard
	Kr	**83**		ug/L			46	48	8	Standard
>	**Tb**	**159**		ug/L			165965	163973	0	Standard
	Pb	**208**	**0.145**	ug/L	0.004	2	210	11656	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-15
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:28:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	42521	0	Standard
	Kr	**83**		ug/L			46	53	16	Standard
>	**Tb**	**159**		ug/L			165965	161089	0	Standard
	Pb	**208**	**0.551**	ug/L	0.003	0	210	43096	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:29:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	33768	5	Standard
⌈>	**Sc**	**45**		ug/L			460122	479753	3	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.014	35	8551	9448	2	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.009	149	93	106	16	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	25	219	206	4	Standard
⌈>	**Ge**	**72**		ug/L			30494	30106	2	KED
|	**Ni**	**60**	**0.011**	ug/L	0.003	30	28	43	11	KED
|	**Ni**	**62**	**0.012**	ug/L	0.028	237	3	6	96	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	101	26	33	23	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	118	10	13	28	KED
|	**Zn**	**66**	**0.035**	ug/L	0.003	9	19	36	2	KED
|	**Zn**	**67**	**0.040**	ug/L	0.015	37	3	6	17	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.009	154	2	1	145	KED
	Y	**89**		ug/L			38927	40722	4	Standard
	Kr	**83**		ug/L			46	36	13	Standard
⌈>	**In-1**	**115**		ug/L			6386	7035	3	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.002	39	4	3	17	KED
⌊	**Cd**	**114**	**-0.015**	ug/L	0.005	30	13	5	58	KED
⌈>	**In**	**115**		ug/L			414575	426936	2	Standard
|	**Ag**	**107**	**-0.002**	ug/L	0.001	38	42	20	47	Standard
|	**Ba**	**135**	**0.004**	ug/L	0.002	61	38	58	21	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.002	60	52	85	23	Standard
⌈>	**Tb**	**159**		ug/L			165965	162029	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	24	210	219	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0702-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:34:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	50071	6	Standard
>	Sc	45		ug/L			460122	559108	3	Standard
	Cr	52	2.801	ug/L	0.106	3	8551	52852	2	Standard
	Cr	53	5.604	ug/L	0.159	2	93	9911	0	Standard
	Mn	55	89.383	ug/L	2.391	2	219	1974612	1	Standard
>	Ge	72		ug/L			30494	29308	1	KED
	Ni	60	4.352	ug/L	0.054	1	28	6064	1	KED
	Ni	62	4.366	ug/L	0.070	1	3	959	1	KED
	Cu	63	2.289	ug/L	0.036	1	26	8941	1	KED
	Cu	65	2.249	ug/L	0.100	4	10	4457	3	KED
	Zn	66	3.039	ug/L	0.133	4	19	1489	4	KED
	Zn	67	3.825	ug/L	0.302	7	3	304	7	KED
	As	75	10.055	ug/L	0.105	1	2	2374	0	KED
	Y	89		ug/L			38927	89604	2	Standard
	Kr	83		ug/L			46	51	9	Standard
>	In-1	115		ug/L			6386	6158	1	KED
	Cd	111	0.002	ug/L	0.017	872	4	4	86	KED
	Cd	114	-0.004	ug/L	0.009	233	13	10	49	KED
>	In	115		ug/L			414575	377047	1	Standard
	Ag	107	0.011	ug/L	0.002	21	42	168	14	Standard
	Ba	135	15.590	ug/L	0.479	3	38	71246	1	Standard
	Ba	137	15.628	ug/L	0.167	1	52	127422	0	Standard
>	Tb	159		ug/L			165965	170609	1	Standard
	Pb	208	0.223	ug/L	0.005	2	210	18620	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:40:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	51084	4	Standard
>	Sc	45		ug/L			460122	568350	2	Standard
	Cr	52	2.833	ug/L	0.035	1	8551	54242	2	Standard
	Cr	53	5.610	ug/L	0.098	1	93	10090	2	Standard
	Mn	55	89.613	ug/L	3.327	3	219	2014004	5	Standard
>	Ge	72		ug/L			30494	28802	0	KED
	Ni	60	4.291	ug/L	0.110	2	28	5876	2	KED
	Ni	62	4.641	ug/L	0.202	4	3	1001	3	KED
	Cu	63	2.274	ug/L	0.042	1	26	8728	1	KED
	Cu	65	2.249	ug/L	0.100	4	10	4381	4	KED
	Zn	66	2.824	ug/L	0.077	2	19	1361	2	KED
	Zn	67	3.785	ug/L	0.579	15	3	296	15	KED
	As	75	10.016	ug/L	0.092	0	2	2324	0	KED
	Y	89		ug/L			38927	89267	1	Standard
	Kr	83		ug/L			46	47	8	Standard
>	In-1	115		ug/L			6386	5985	1	KED
	Cd	111	0.003	ug/L	0.009	346	4	4	44	KED
	Cd	114	-0.007	ug/L	0.003	51	13	8	22	KED
>	In	115		ug/L			414575	388034	3	Standard
	Ag	107	0.011	ug/L	0.001	6	42	176	8	Standard
	Ba	135	15.387	ug/L	0.337	2	38	72354	1	Standard
	Ba	137	15.411	ug/L	0.319	2	52	129265	1	Standard
>	Tb	159		ug/L			165965	172113	0	Standard
	Pb	208	0.238	ug/L	0.003	1	210	20000	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:45:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	51186	5	Standard
>	Sc	45		ug/L			460122	570416	2	Standard
	Cr	52	21.874	ug/L	0.296	1	8551	349015	1	Standard
	Cr	53	24.410	ug/L	0.481	1	93	43677	0	Standard
	Mn	55	112.129	ug/L	1.042	0	219	2528412	1	Standard
>	Ge	72		ug/L			30494	29271	0	KED
	Ni	60	27.840	ug/L	0.280	1	28	38602	0	KED
	Ni	62	27.779	ug/L	0.122	0	3	6076	0	KED
	Cu	63	25.033	ug/L	0.213	0	26	97401	0	KED
	Cu	65	25.046	ug/L	0.184	0	10	49488	0	KED
	Zn	66	72.190	ug/L	1.687	2	19	34903	1	KED
	Zn	67	69.774	ug/L	2.572	3	3	5500	3	KED
	As	75	33.963	ug/L	0.148	0	2	8005	0	KED
	Y	89		ug/L			38927	86850	1	Standard
	Kr	83		ug/L			46	47	10	Standard
>	In-1	115		ug/L			6386	5917	3	KED
	Cd	111	22.714	ug/L	1.260	5	4	4858	2	KED
	Cd	114	22.672	ug/L	0.714	3	13	12384	2	KED
>	In	115		ug/L			414575	385596	1	Standard
	Ag	107	21.779	ug/L	0.668	3	42	273430	2	Standard
	Ba	135	41.119	ug/L	0.845	2	38	192158	1	Standard
	Ba	137	40.806	ug/L	0.502	1	52	340176	0	Standard
>	Tb	159		ug/L			165965	173214	0	Standard
	Pb	208	21.567	ug/L	0.124	0	210	1804350	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:50:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	50121	5	Standard
>	Sc	45		ug/L			460122	566649	2	Standard
	Cr	52	21.819	ug/L	0.163	0	8551	345942	3	Standard
	Cr	53	24.581	ug/L	0.115	0	93	43704	2	Standard
	Mn	55	110.088	ug/L	0.947	0	219	2466602	3	Standard
>	Ge	72		ug/L			30494	28743	0	KED
	Ni	60	27.761	ug/L	0.348	1	28	37800	1	KED
	Ni	62	28.514	ug/L	0.618	2	3	6125	1	KED
	Cu	63	25.533	ug/L	0.214	0	26	97557	1	KED
	Cu	65	25.563	ug/L	0.514	2	10	49604	2	KED
	Zn	66	73.567	ug/L	1.366	1	19	34930	1	KED
	Zn	67	71.696	ug/L	1.628	2	3	5550	2	KED
	As	75	34.650	ug/L	0.590	1	2	8020	1	KED
	Y	89		ug/L			38927	87094	1	Standard
	Kr	83		ug/L			46	47	4	Standard
>	In-1	115		ug/L			6386	5969	3	KED
	Cd	111	22.427	ug/L	0.921	4	4	4840	0	KED
	Cd	114	22.421	ug/L	0.824	3	13	12352	1	KED
>	In	115		ug/L			414575	377052	2	Standard
	Ag	107	21.519	ug/L	0.480	2	42	264134	1	Standard
	Ba	135	41.712	ug/L	0.827	1	38	190601	2	Standard
	Ba	137	41.496	ug/L	0.365	0	52	338248	1	Standard
>	Tb	159		ug/L			165965	171228	0	Standard
	Pb	208	21.433	ug/L	0.437	2	210	1772521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:55:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	32104	2	Standard
⌈>	**Sc**	**45**		ug/L			460122	484185	0	Standard
|	**Cr**	**52**	**0.052**	ug/L	0.019	37	8551	9682	2	Standard
|	**Cr**	**53**	**0.125**	ug/L	0.020	16	93	287	10	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	20	219	288	4	Standard
⌈>	**Ge**	**72**		ug/L			30494	31140	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.008	354	28	32	35	KED
|	**Ni**	**62**	**0.008**	ug/L	0.022	275	3	5	88	KED
|	**Cu**	**63**	**0.004**	ug/L	0.000	10	26	44	4	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	32	10	20	15	KED
|	**Zn**	**66**	**0.050**	ug/L	0.004	8	19	45	4	KED
|	**Zn**	**67**	**0.007**	ug/L	0.022	337	3	3	50	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.001	23	2	1	15	KED
	Y	**89**		ug/L			38927	38904	1	Standard
	Kr	**83**		ug/L			46	44	25	Standard
⌈>	**In-1**	**115**		ug/L			6386	6374	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	27	4	2	24	KED
⌊	**Cd**	**114**	**-0.018**	ug/L	0.002	11	13	2	47	KED
⌈>	**In**	**115**		ug/L			414575	414400	0	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	199	42	39	16	Standard
|	**Ba**	**135**	**0.005**	ug/L	0.002	36	38	62	13	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.000	5	52	99	3	Standard
⌈>	**Tb**	**159**		ug/L			165965	170024	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	22	210	321	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:59:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	29882	5	Standard
⌈>	**Sc**	**45**		ug/L			460122	492719	1	Standard
|	**Cr**	**52**	**46.862**	ug/L	0.898	1	8551	635602	3	Standard
|	**Cr**	**53**	**47.446**	ug/L	0.957	2	93	73242	0	Standard
⌊	**Mn**	**55**	**47.412**	ug/L	0.375	0	219	923706	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	31679	0	KED
|	**Ni**	**60**	**49.451**	ug/L	0.657	1	28	74185	0	KED
|	**Ni**	**62**	**50.710**	ug/L	1.000	1	3	12004	2	KED
|	**Cu**	**63**	**50.219**	ug/L	0.881	1	26	211426	0	KED
|	**Cu**	**65**	**49.462**	ug/L	0.399	0	10	105774	1	KED
|	**Zn**	**66**	**51.028**	ug/L	0.143	0	19	26710	1	KED
|	**Zn**	**67**	**51.839**	ug/L	0.935	1	3	4424	2	KED
⌊	**As**	**75**	**49.952**	ug/L	0.538	1	2	12741	0	KED
	Y	**89**		ug/L			38927	39628	2	Standard
	Kr	**83**		ug/L			46	42	9	Standard
⌈>	**In-1**	**115**		ug/L			6386	6648	0	KED
|	**Cd**	**111**	**49.226**	ug/L	1.079	2	4	11839	1	KED
⌊	**Cd**	**114**	**49.147**	ug/L	0.723	1	13	30162	0	KED
⌈>	**In**	**115**		ug/L			414575	414854	2	Standard
|	**Ag**	**107**	**48.728**	ug/L	1.030	2	42	657999	1	Standard
|	**Ba**	**135**	**49.989**	ug/L	0.737	1	38	251298	1	Standard
⌊	**Ba**	**137**	**49.163**	ug/L	1.103	2	52	440803	0	Standard
⌈>	**Tb**	**159**		ug/L			165965	172287	1	Standard
⌊	**Pb**	**208**	**49.027**	ug/L	0.734	1	210	4078768	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:07:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44107	2	Standard
⌈>	**Sc**	**45**		ug/L			460122	467848	1	Standard
|	**Cr**	**52**	**0.056**	ug/L	0.025	44	8551	9400	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.020	92	93	126	21	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.013	149	219	383	61	Standard
⌈>	**Ge**	**72**		ug/L			30494	30626	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.002	19	28	41	4	KED
|	**Ni**	**62**	**0.042**	ug/L	0.017	41	3	13	28	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	87	26	39	26	KED
|	**Cu**	**65**	**0.007**	ug/L	0.002	31	10	24	16	KED
|	**Zn**	**66**	**0.020**	ug/L	0.005	25	19	29	9	KED
|	**Zn**	**67**	**0.023**	ug/L	0.059	256	3	5	94	KED
⌊	**As**	**75**	**0.004**	ug/L	0.005	127	2	3	33	KED
	Y	**89**		ug/L			38927	37362	2	Standard
	Kr	**83**		ug/L			46	31	27	Standard
⌈>	**In-1**	**115**		ug/L			6386	6407	3	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	17	4	1	43	KED
⌊	**Cd**	**114**	**-0.019**	ug/L	0.003	17	13	1	100	KED
⌈>	**In**	**115**		ug/L			414575	406141	1	Standard
|	**Ag**	**107**	**0.010**	ug/L	0.015	155	42	172	116	Standard
|	**Ba**	**135**	**0.014**	ug/L	0.019	129	38	107	83	Standard
⌊	**Ba**	**137**	**0.014**	ug/L	0.017	117	52	173	82	Standard
⌈>	**Tb**	**159**		ug/L			165965	163351	3	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.016	144	210	1026	113	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:14:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				35375	4	Standard
>	**Sc**	**45**		ug/L				473417	1	Standard
	Cr	**52**		ug/L				9091	2	Standard
	Cr	**53**		ug/L				128	3	Standard
	Mn	**55**		ug/L				216	3	Standard
>	**Ge**	**72**		ug/L				31041	1	KED
	Ni	**60**		ug/L				38	41	KED
	Ni	**62**		ug/L				3	50	KED
	Cu	**63**		ug/L				33	3	KED
	Cu	**65**		ug/L				13	78	KED
	Zn	**66**		ug/L				24	7	KED
	Zn	**67**		ug/L				5	141	KED
	As	**75**		ug/L				2	52	KED
	Y	**89**		ug/L				39379	3	Standard
	Kr	**83**		ug/L				33	20	Standard
>	**In-1**	**115**		ug/L				6479	2	KED
	Cd	**111**		ug/L				0	173	KED
	Cd	**114**		ug/L				3	50	KED
>	**In**	**115**		ug/L				411466	2	Standard
	Ag	**107**		ug/L				26	25	Standard
	Ba	**135**		ug/L				57	20	Standard
	Ba	**137**		ug/L				109	19	Standard
>	**Tb**	**159**		ug/L				168748	1	Standard
	Pb	**208**		ug/L				245	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:18:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	31956	3	Standard
⌈>	**Sc**	**45**		ug/L			473417	483579	1	Standard
|	**Cr**	**52**	**48.033**	ug/L	1.112	2	9091	639308	1	Standard
|	**Cr**	**53**	**48.743**	ug/L	0.741	1	128	73885	0	Standard
⌊	**Mn**	**55**	**48.910**	ug/L	0.430	0	216	935147	1	Standard
⌈>	**Ge**	**72**		ug/L			31041	31531	2	KED
|	**Ni**	**60**	**48.774**	ug/L	2.327	4	38	72774	1	KED
|	**Ni**	**62**	**49.943**	ug/L	0.902	1	3	11762	1	KED
|	**Cu**	**63**	**49.777**	ug/L	1.894	3	33	208463	0	KED
|	**Cu**	**65**	**48.767**	ug/L	1.443	2	13	103739	0	KED
|	**Zn**	**66**	**50.712**	ug/L	1.224	2	24	26415	1	KED
|	**Zn**	**67**	**51.263**	ug/L	0.826	1	5	4356	3	KED
⌊	**As**	**75**	**49.678**	ug/L	1.461	2	2	12605	0	KED
	Y	**89**		ug/L			39379	39569	1	Standard
	Kr	**83**		ug/L			33	34	25	Standard
⌈>	**In-1**	**115**		ug/L			6479	6461	1	KED
|	**Cd**	**111**	**49.132**	ug/L	0.667	1	0	11482	2	KED
⌊	**Cd**	**114**	**48.849**	ug/L	0.955	1	3	29126	2	KED
⌈>	**In**	**115**		ug/L			411466	414070	2	Standard
|	**Ag**	**107**	**49.450**	ug/L	1.680	3	26	666438	2	Standard
|	**Ba**	**135**	**49.266**	ug/L	1.389	2	57	247159	0	Standard
⌊	**Ba**	**137**	**49.289**	ug/L	1.165	2	109	441153	0	Standard
⌈>	**Tb**	**159**		ug/L			168748	170066	1	Standard
⌊	**Pb**	**208**	**49.517**	ug/L	0.438	0	245	4066889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:25:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	30742	2	Standard
⌈>	**Sc**	**45**		ug/L			473417	484633	4	Standard
|	**Cr**	**52**	**-0.019**	ug/L	0.032	173	9091	9049	1	Standard
|	**Cr**	**53**	**-0.016**	ug/L	0.017	102	128	106	19	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.014	178	216	363	67	Standard
⌈>	**Ge**	**72**		ug/L			31041	31356	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.011	291	38	33	46	KED
|	**Ni**	**62**	**0.035**	ug/L	0.013	36	3	12	24	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	267	33	36	20	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	192	13	11	44	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.003	44	24	20	9	KED
|	**Zn**	**67**	**-0.008**	ug/L	0.047	590	5	4	89	KED
⌊	**As**	**75**	**0.003**	ug/L	0.004	130	2	3	31	KED
	Y	**89**		ug/L			39379	40092	3	Standard
	Kr	**83**		ug/L			33	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6479	6545	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	149	0	0	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	271	3	3	71	KED
⌈>	**In**	**115**		ug/L			411466	418771	3	Standard
|	**Ag**	**107**	**0.008**	ug/L	0.012	139	26	137	111	Standard
|	**Ba**	**135**	**0.007**	ug/L	0.013	191	57	92	69	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.013	257	109	154	70	Standard
⌈>	**Tb**	**159**		ug/L			168748	167031	2	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.016	161	245	1004	121	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-01
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:33:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	40750	2	Standard
>	**Sc**	**45**		ug/L			473417	593182	1	Standard
	Mn	**55**	**83.233**	ug/L	1.216	1	216	1952262	3	Standard
	Kr	**83**		ug/L			33	43	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:35:51

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	42093	1	Standard
>	**Sc**	**45**		ug/L			473417	615694	3	Standard
	Mn	**55**	**78.026**	ug/L	0.148	0	216	1899382	3	Standard
	Kr	**83**		ug/L			33	39	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-10
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:37:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	43142	3	Standard
>	**Sc**	**45**		ug/L			473417	601761	2	Standard
	Mn	**55**	**232.522**	ug/L	2.348	1	216	5531685	3	Standard
	Kr	**83**		ug/L			33	54	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-11
Sample Dil Factor: 100
DEL
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:38:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	39783	0	Standard
>	**Sc**	**45**		ug/L			473417	599154	0	Standard
	Mn	**55**	**79.755**	ug/L	2.106	2	216	1889365	3	Standard
	Kr	**83**		ug/L			33	48	29	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-12
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:39:56

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	**13**		ug/L			35375	40719	0	Standard
> **Sc**	**45**		ug/L			473417	604640	2	Standard
Mn	**55**	**76.016**	ug/L	1.025	1	216	1817530	3	Standard
Kr	**83**		ug/L			33	45	31	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-06

Sample Dil Factor: 50

DEL

Comments:

Sample Date/Time: Thursday, May 11, 2023 19:41:18

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	40463	2	Standard
>	**Sc**	**45**		ug/L			473417	603703	4	Standard
	Mn	**55**	**56.639**	ug/L	1.334	2	216	1351242	3	Standard
	Kr	**83**		ug/L			33	48	33	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:42:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	40240	2	Standard
>	**Sc**	**45**		ug/L			473417	591422	1	Standard
	Mn	**55**	**0.004**	ug/L	0.001	27	216	365	5	Standard
	Kr	**83**		ug/L			33	42	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:44:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	36689	1	Standard
>	**Sc**	**45**		ug/L			473417	610131	2	Standard
	Mn	**55**	**45.712**	ug/L	0.619	1	216	1103017	3	Standard
	Kr	**83**		ug/L			33	55	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:48:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	35587	0	Standard
⌈>	**Sc**	**45**		ug/L			473417	576301	3	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	46	216	287	2	Standard
	Kr	**83**		ug/L			33	41	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:51:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				30125	1	Standard
>	**Sc**	**45**		ug/L				488451	2	Standard
	Cr	**52**		ug/L				8929	3	Standard
	Cr	**53**		ug/L				95	11	Standard
	Mn	**55**		ug/L				208	10	Standard
>	**Ge**	**72**		ug/L				31094	1	KED
	Ni	**60**		ug/L				36	9	KED
	Ni	**62**		ug/L				5	78	KED
	Cu	**63**		ug/L				24	13	KED
	Cu	**65**		ug/L				18	36	KED
	Zn	**66**		ug/L				23	23	KED
	Zn	**67**		ug/L				4	49	KED
	As	**75**		ug/L				2	68	KED
	Y	**89**		ug/L				40140	3	Standard
	Kr	**83**		ug/L				40	38	Standard
>	**In-1**	**115**		ug/L				6950	2	KED
	Cd	**111**		ug/L				3	56	KED
	Cd	**114**		ug/L				0	180	KED
>	**In**	**115**		ug/L				429431	3	Standard
	Ag	**107**		ug/L				24	13	Standard
	Ba	**135**		ug/L				46	4	Standard
	Ba	**137**		ug/L				85	12	Standard
>	**Tb**	**159**		ug/L				166755	2	Standard
	Pb	**208**		ug/L				213	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:55:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	31068	6	Standard
⌈>	**Sc**	**45**		ug/L			488451	496953	2	Standard
|	**Cr**	**52**	**47.887**	ug/L	0.305	0	8929	654584	1	Standard
|	**Cr**	**53**	**48.282**	ug/L	0.759	1	95	75177	2	Standard
⌊	**Mn**	**55**	**48.329**	ug/L	0.366	0	208	949563	1	Standard
⌈>	**Ge**	**72**		ug/L			31094	31335	1	KED
|	**Ni**	**60**	**49.504**	ug/L	1.097	2	36	73453	0	KED
|	**Ni**	**62**	**50.840**	ug/L	1.958	3	5	11900	2	KED
|	**Cu**	**63**	**49.902**	ug/L	1.103	2	24	207822	2	KED
|	**Cu**	**65**	**49.025**	ug/L	0.755	1	18	103691	0	KED
|	**Zn**	**66**	**51.257**	ug/L	1.113	2	23	26540	2	KED
|	**Zn**	**67**	**51.830**	ug/L	2.221	4	4	4375	3	KED
⌊	**As**	**75**	**50.761**	ug/L	0.849	1	2	12805	0	KED
	Y	**89**		ug/L			40140	41623	2	Standard
	Kr	**83**		ug/L			40	43	15	Standard
⌈>	**In-1**	**115**		ug/L			6950	6586	1	KED
|	**Cd**	**111**	**48.710**	ug/L	0.857	1	3	11605	0	KED
⌊	**Cd**	**114**	**49.769**	ug/L	0.997	2	0	30244	0	KED
⌈>	**In**	**115**		ug/L			429431	422607	0	Standard
|	**Ag**	**107**	**50.288**	ug/L	1.632	3	24	691847	2	Standard
|	**Ba**	**135**	**48.585**	ug/L	0.946	1	46	248842	1	Standard
⌊	**Ba**	**137**	**48.718**	ug/L	0.733	1	85	445176	1	Standard
⌈>	**Tb**	**159**		ug/L			166755	174363	1	Standard
⌊	**Pb**	**208**	**48.985**	ug/L	1.030	2	213	4124375	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:00:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	29186	4	Standard
⌈>	**Sc**	**45**		ug/L			488451	490772	1	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.042	453	8929	9089	4	Standard
|	**Cr**	**53**	**0.023**	ug/L	0.036	157	95	130	41	Standard
⌊	**Mn**	**55**	**0.019**	ug/L	0.031	161	208	581	102	Standard
⌈>	**Ge**	**72**		ug/L			31094	31384	2	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.004	106	36	31	18	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.012	3657	5	5	57	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	24	38	20	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	433	18	19	24	KED
|	**Zn**	**66**	**0.010**	ug/L	0.020	208	23	28	35	KED
|	**Zn**	**67**	**0.022**	ug/L	0.034	155	4	6	45	KED
⌊	**As**	**75**	**0.003**	ug/L	0.003	90	2	3	24	KED
	Y	**89**		ug/L			40140	40666	1	Standard
	Kr	**83**		ug/L			40	40	25	Standard
⌈>	**In-1**	**115**		ug/L			6950	6471	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.002	220	3	3	15	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.004	50	0	5	43	KED
⌈>	**In**	**115**		ug/L			429431	430476	1	Standard
|	**Ag**	**107**	**0.022**	ug/L	0.034	155	24	335	144	Standard
|	**Ba**	**135**	**0.015**	ug/L	0.027	179	46	126	113	Standard
⌊	**Ba**	**137**	**0.014**	ug/L	0.023	164	85	219	101	Standard
⌈>	**Tb**	**159**		ug/L			166755	169298	1	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.027	157	213	1621	137	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0636-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:07:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	37533	4	Standard
⌈>	**Sc**	**45**		ug/L			488451	529062	2	Standard
|	**Cr**	**52**	**0.541**	ug/L	0.003	0	8929	17434	2	Standard
|	**Cr**	**53**	**0.601**	ug/L	0.008	1	95	1098	1	Standard
⌊	**Mn**	**55**	**88.376**	ug/L	0.740	0	208	1848790	3	Standard
⌈>	**Ge**	**72**		ug/L			31094	31864	2	KED
|	**Ni**	**60**	**0.988**	ug/L	0.024	2	36	1526	2	KED
|	**Ni**	**62**	**1.021**	ug/L	0.115	11	5	247	8	KED
|	**Cu**	**63**	**1.647**	ug/L	0.021	1	24	6997	1	KED
|	**Cu**	**65**	**1.686**	ug/L	0.054	3	18	3643	1	KED
|	**Zn**	**66**	**4.041**	ug/L	0.149	3	23	2151	6	KED
|	**Zn**	**67**	**3.780**	ug/L	0.373	9	4	328	7	KED
⌊	**As**	**75**	**0.565**	ug/L	0.012	2	2	147	4	KED
	Y	**89**		ug/L			40140	56560	3	Standard
	Kr	**83**		ug/L			40	39	14	Standard
⌈>	**In-1**	**115**		ug/L			6950	6868	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.015	289	3	4	80	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.004	30	0	8	28	KED
⌈>	**In**	**115**		ug/L			429431	448110	1	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	29	24	85	19	Standard
|	**Ba**	**135**	**2.679**	ug/L	0.043	1	46	14596	2	Standard
⌊	**Ba**	**137**	**2.633**	ug/L	0.026	0	85	25592	1	Standard
⌈>	**Tb**	**159**		ug/L			166755	178597	0	Standard
⌊	**Pb**	**208**	**0.679**	ug/L	0.008	1	213	58760	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-DUP2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:11:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	37041	3	Standard
⌈>	Sc	45		ug/L			488451	517410	0	Standard
|	Cr	52	0.555	ug/L	0.014	2	8929	17251	1	Standard
|	Cr	53	0.620	ug/L	0.016	2	95	1105	2	Standard
⌊	Mn	55	90.495	ug/L	1.649	1	208	1851260	2	Standard
⌈>	Ge	72		ug/L			31094	31715	1	KED
|	Ni	60	0.992	ug/L	0.041	4	36	1525	2	KED
|	Ni	62	1.008	ug/L	0.067	6	5	243	5	KED
|	Cu	63	1.724	ug/L	0.022	1	24	7293	2	KED
|	Cu	65	1.698	ug/L	0.014	0	18	3653	1	KED
|	Zn	66	4.083	ug/L	0.167	4	23	2161	2	KED
|	Zn	67	3.985	ug/L	0.154	3	4	344	3	KED
⌊	As	75	0.571	ug/L	0.021	3	2	147	2	KED
	Y	89		ug/L			40140	56345	3	Standard
	Kr	83		ug/L			40	34	11	Standard
⌈>	In-1	115		ug/L			6950	6841	0	KED
|	Cd	111	-0.004	ug/L	0.006	159	3	2	57	KED
⌊	Cd	114	0.007	ug/L	0.001	21	0	4	19	KED
⌈>	In	115		ug/L			429431	437724	2	Standard
|	Ag	107	0.002	ug/L	0.001	47	24	54	24	Standard
|	Ba	135	2.795	ug/L	0.102	3	46	14868	1	Standard
⌊	Ba	137	2.763	ug/L	0.058	2	85	26229	0	Standard
⌈>	Tb	159		ug/L			166755	175911	0	Standard
⌊	Pb	208	0.692	ug/L	0.006	0	213	59009	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MS2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:16:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	37834	4	Standard
⌈>	Sc	45		ug/L			488451	509796	3	Standard
|	Cr	52	2.928	ug/L	0.050	1	8929	49799	3	Standard
|	Cr	53	3.034	ug/L	0.078	2	95	4936	1	Standard
⌊	Mn	55	95.427	ug/L	2.392	2	208	1922397	2	Standard
⌈>	Ge	72		ug/L			31094	32404	0	KED
|	Ni	60	3.516	ug/L	0.048	1	36	5431	1	KED
|	Ni	62	3.710	ug/L	0.182	4	5	902	3	KED
|	Cu	63	4.318	ug/L	0.048	1	24	18621	0	KED
|	Cu	65	4.255	ug/L	0.153	3	18	9322	2	KED
|	Zn	66	12.225	ug/L	0.290	2	23	6564	1	KED
|	Zn	67	11.985	ug/L	0.075	0	4	1050	1	KED
⌊	As	75	3.013	ug/L	0.134	4	2	788	5	KED
	Y	89		ug/L			40140	57255	3	Standard
	Kr	83		ug/L			40	37	36	Standard
⌈>	In-1	115		ug/L			6950	6696	3	KED
|	Cd	111	2.447	ug/L	0.099	4	3	595	4	KED
⌊	Cd	114	2.438	ug/L	0.131	5	0	1507	7	KED
⌈>	In	115		ug/L			429431	437727	1	Standard
|	Ag	107	2.205	ug/L	0.040	1	24	31452	3	Standard
|	Ba	135	5.278	ug/L	0.058	1	46	28043	1	Standard
⌊	Ba	137	5.274	ug/L	0.063	1	85	49996	1	Standard
⌈>	Tb	159		ug/L			166755	177766	1	Standard
⌊	Pb	208	3.166	ug/L	0.042	1	213	272094	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MSD2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:20:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	36979	2	Standard
⌈>	Sc	45		ug/L			488451	525686	2	Standard
|	Cr	52	2.854	ug/L	0.078	2	8929	50302	2	Standard
|	Cr	53	2.930	ug/L	0.007	0	95	4922	2	Standard
⌊	Mn	55	91.394	ug/L	1.596	1	208	1899162	2	Standard
⌈>	Ge	72		ug/L			31094	31781	0	KED
|	Ni	60	3.555	ug/L	0.073	2	36	5384	1	KED
|	Ni	62	3.613	ug/L	0.131	3	5	862	3	KED
|	Cu	63	4.211	ug/L	0.090	2	24	17809	2	KED
|	Cu	65	4.197	ug/L	0.110	2	18	9021	2	KED
|	Zn	66	12.756	ug/L	0.172	1	23	6717	0	KED
|	Zn	67	12.102	ug/L	0.236	1	4	1040	2	KED
⌊	As	75	3.007	ug/L	0.093	3	2	771	2	KED
	Y	89		ug/L			40140	58514	3	Standard
	Kr	83		ug/L			40	45	23	Standard
⌈>	In-1	115		ug/L			6950	6582	3	KED
|	Cd	111	2.475	ug/L	0.049	1	3	592	2	KED
⌊	Cd	114	2.509	ug/L	0.189	7	0	1521	3	KED
⌈>	In	115		ug/L			429431	439755	2	Standard
|	Ag	107	2.234	ug/L	0.064	2	24	32023	5	Standard
|	Ba	135	5.335	ug/L	0.152	2	46	28465	0	Standard
⌊	Ba	137	5.240	ug/L	0.130	2	85	49891	1	Standard
⌈>	Tb	159		ug/L			166755	179008	1	Standard
⌊	Pb	208	3.173	ug/L	0.034	1	213	274515	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:25:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	32810	3	Standard
⌈>	**Sc**	**45**		ug/L			488451	483754	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.007	59	8929	8990	3	Standard
|	**Cr**	**53**	**0.002**	ug/L	0.003	137	95	97	4	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	24	208	274	5	Standard
⌈>	**Ge**	**72**		ug/L			31094	32249	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.008	290	36	33	38	KED
|	**Ni**	**62**	**0.012**	ug/L	0.017	133	5	8	48	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	58	24	39	20	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	410	18	18	15	KED
|	**Zn**	**66**	**0.043**	ug/L	0.009	20	23	46	9	KED
|	**Zn**	**67**	**0.086**	ug/L	0.054	63	4	12	39	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.002	78	2	1	34	KED
	Y	**89**		ug/L			40140	40596	0	Standard
	Kr	**83**		ug/L			40	33	8	Standard
⌈>	**In-1**	**115**		ug/L			6950	6409	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.002	1237	3	3	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	59	0	3	51	KED
⌈>	**In**	**115**		ug/L			429431	430809	3	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	73	24	20	15	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.002	228	46	50	17	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	53	85	95	2	Standard
⌈>	**Tb**	**159**		ug/L			166755	168692	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	26	213	286	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:30:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	37172	2	Standard
>	Sc	45		ug/L			488451	585054	3	Standard
	Cr	52	19.035	ug/L	0.241	1	8929	312715	2	Standard
	Cr	53	19.184	ug/L	0.461	2	95	35219	0	Standard
	Mn	55	408.963	ug/L	6.469	1	208	9455468	1	Standard
>	Ge	72		ug/L			31094	29441	1	KED
	Ni	60	49.353	ug/L	1.005	2	36	68810	1	KED
	Ni	62	50.923	ug/L	1.247	2	5	11201	1	KED
	Cu	63	159.251	ug/L	4.042	2	24	623033	2	KED
	Cu	65	156.890	ug/L	1.546	0	18	311752	0	KED
	Zn	66	74.362	ug/L	1.528	2	23	36163	1	KED
	Zn	67	68.154	ug/L	1.445	2	4	5407	3	KED
	As	75	2.157	ug/L	0.080	3	2	513	3	KED
	Y	89		ug/L			40140	317948	1	Standard
	Kr	83		ug/L			40	200	9	Standard
>	In-1	115		ug/L			6950	6095	0	KED
	Cd	111	0.136	ug/L	0.011	8	3	33	7	KED
	Cd	114	0.132	ug/L	0.037	28	0	74	28	KED
>	In	115		ug/L			429431	379319	1	Standard
	Ag	107	0.141	ug/L	0.009	6	24	1757	6	Standard
	Ba	135	13.381	ug/L	0.231	1	46	61552	2	Standard
	Ba	137	13.256	ug/L	0.124	0	85	108769	0	Standard
>	Tb	159		ug/L			166755	185408	1	Standard
	Pb	208	11.928	ug/L	0.058	0	213	1068245	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:35:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	38308	4	Standard
>	Sc	45		ug/L			488451	581455	1	Standard
	Cr	52	18.454	ug/L	0.322	1	8929	301660	0	Standard
	Cr	53	18.605	ug/L	0.072	0	95	33968	1	Standard
	Mn	55	351.407	ug/L	4.276	1	208	8077094	1	Standard
>	Ge	72		ug/L			31094	29946	1	KED
	Ni	60	41.402	ug/L	0.644	1	36	58719	0	KED
	Ni	62	42.603	ug/L	1.363	3	5	9532	2	KED
	Cu	63	160.484	ug/L	4.473	2	24	638555	1	KED
	Cu	65	157.043	ug/L	1.660	1	18	317422	1	KED
	Zn	66	72.547	ug/L	1.040	1	23	35889	1	KED
	Zn	67	70.143	ug/L	1.933	2	4	5659	3	KED
	As	75	3.128	ug/L	0.080	2	2	756	1	KED
	Y	89		ug/L			40140	333817	0	Standard
	Kr	83		ug/L			40	213	3	Standard
>	In-1	115		ug/L			6950	6142	2	KED
	Cd	111	0.193	ug/L	0.048	24	3	46	22	KED
	Cd	114	0.180	ug/L	0.019	10	0	102	9	KED
>	In	115		ug/L			429431	386154	1	Standard
	Ag	107	0.157	ug/L	0.005	3	24	2002	4	Standard
	Ba	135	13.196	ug/L	0.309	2	46	61784	1	Standard
	Ba	137	12.810	ug/L	0.121	0	85	107005	0	Standard
>	Tb	159		ug/L			166755	190251	0	Standard
	Pb	208	15.187	ug/L	0.119	0	213	1395652	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:40:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	35682	6	Standard
>	Sc	45		ug/L			488451	602861	3	Standard
	Cr	52	40.501	ug/L	0.519	1	8929	673139	2	Standard
	Cr	53	40.134	ug/L	0.661	1	95	75801	2	Standard
	Mn	55	403.696	ug/L	9.605	2	208	9614903	1	Standard
>	Ge	72		ug/L			31094	29627	2	KED
	Ni	60	71.332	ug/L	2.031	2	36	100046	1	KED
	Ni	62	72.084	ug/L	1.289	1	5	15953	1	KED
	Cu	63	178.612	ug/L	3.276	1	24	703091	0	KED
	Cu	65	175.823	ug/L	4.358	2	18	351477	0	KED
	Zn	66	139.753	ug/L	1.404	1	23	68375	1	KED
	Zn	67	133.587	ug/L	5.323	3	4	10654	2	KED
	As	75	22.806	ug/L	0.374	1	2	5440	2	KED
	Y	89		ug/L			40140	354871	3	Standard
	Kr	83		ug/L			40	207	16	Standard
>	In-1	115		ug/L			6950	6155	1	KED
	Cd	111	24.652	ug/L	0.177	0	3	5491	2	KED
	Cd	114	24.512	ug/L	0.441	1	0	13920	0	KED
>	In	115		ug/L			429431	386831	1	Standard
	Ag	107	24.681	ug/L	0.253	1	24	310888	2	Standard
	Ba	135	34.380	ug/L	0.768	2	46	161198	2	Standard
	Ba	137	33.167	ug/L	0.625	1	85	277407	1	Standard
>	Tb	159		ug/L			166755	193863	2	Standard
	Pb	208	30.586	ug/L	0.566	1	213	2863025	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:44:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30125	36215	3	Standard
> Sc	45		ug/L			488451	614737	1	Standard
Cr	52	38.157	ug/L	0.751	1	8929	647469	1	Standard
Cr	53	38.387	ug/L	0.645	1	95	73963	1	Standard
Mn	55	373.236	ug/L	6.598	1	208	9069303	1	Standard
> Ge	72		ug/L			31094	30940	0	KED
Ni	60	64.989	ug/L	0.830	1	36	95219	1	KED
Ni	62	66.779	ug/L	0.835	1	5	15436	0	KED
Cu STL	63	158.301	ug/L	0.895	0	24	650906	0	KED
Cu	65	158.710	ug/L	3.040	1	18	331427	1	KED
Zn	66	144.837	ug/L	0.207	0	23	74011	0	KED
Zn	67	137.610	ug/L	0.372	0	4	11466	0	KED
As	75	20.547	ug/L	0.227	1	2	5119	0	KED
Y	89		ug/L			40140	374892	2	Standard
Kr	83		ug/L			40	194	15	Standard
> In-1	115		ug/L			6950	6616	2	KED
Cd	111	23.308	ug/L	0.995	4	3	5576	1	KED
Cd	114	23.131	ug/L	0.515	2	0	14117	1	KED
> In	115		ug/L			429431	390014	1	Standard
Ag	107	25.024	ug/L	0.651	2	24	317728	1	Standard
Ba	135	34.183	ug/L	0.292	0	46	161600	1	Standard
Ba	137	33.671	ug/L	0.711	2	85	283919	0	Standard
> Tb	159		ug/L			166755	198813	0	Standard
Pb	208	31.952	ug/L	0.481	1	213	3067852	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:49:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	33486	2	Standard
>	**Sc**	**45**		ug/L			488451	492138	0	Standard
	Cr	**52**	**-0.020**	ug/L	0.018	90	8929	8729	3	Standard
	Cr	**53**	**-0.008**	ug/L	0.003	44	95	84	6	Standard
	Mn	**55**	**0.017**	ug/L	0.004	23	208	536	13	Standard
>	**Ge**	**72**		ug/L			31094	29224	18	KED
	Ni	**60**	**0.004**	ug/L	0.010	275	36	37	15	KED
	Ni	**62**	**0.001**	ug/L	0.024	1900	5	5	114	KED
	Cu	**63**	**0.016**	ug/L	0.004	28	24	81	4	KED
	Cu	**65**	**0.009**	ug/L	0.004	44	18	33	3	KED
	Zn	**66**	**0.058**	ug/L	0.014	23	23	49	7	KED
	Zn	**67**	**0.080**	ug/L	0.103	128	4	9	60	KED
	As	**75**	**0.006**	ug/L	0.005	91	2	3	43	KED
	Y	**89**		ug/L			40140	40341	2	Standard
	Kr	**83**		ug/L			40	39	12	Standard
>	**In-1**	**115**		ug/L			6950	6607	3	KED
	Cd	**111**	**0.053**	ug/L	0.050	94	3	15	75	KED
	Cd	**114**	**0.057**	ug/L	0.050	88	0	34	86	KED
>	**In**	**115**		ug/L			429431	424681	1	Standard
	Ag	**107**	**0.002**	ug/L	0.001	61	24	47	28	Standard
	Ba	**135**	**0.001**	ug/L	0.003	304	46	51	29	Standard
	Ba	**137**	**0.002**	ug/L	0.001	35	85	102	5	Standard
>	**Tb**	**159**		ug/L			166755	172906	0	Standard
	Pb	**208**	**0.002**	ug/L	0.000	18	213	376	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:53:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	30349	2	Standard
⌈>	**Sc**	**45**		ug/L			488451	500151	1	Standard
|	**Cr**	**52**	**47.797**	ug/L	0.682	1	8929	657554	0	Standard
|	**Cr**	**53**	**47.780**	ug/L	0.772	1	95	74890	2	Standard
⌊	**Mn**	**55**	**48.138**	ug/L	0.695	1	208	951850	0	Standard
⌈>	**Ge**	**72**		ug/L			31094	31557	1	KED
|	**Ni**	**60**	**49.111**	ug/L	0.948	1	36	73390	1	KED
|	**Ni**	**62**	**50.092**	ug/L	1.814	3	5	11808	2	KED
|	**Cu**	**63**	**50.292**	ug/L	0.819	1	24	210903	0	KED
|	**Cu**	**65**	**49.462**	ug/L	0.808	1	18	105355	1	KED
|	**Zn**	**66**	**50.887**	ug/L	0.866	1	23	26532	0	KED
|	**Zn**	**67**	**50.159**	ug/L	1.636	3	4	4266	4	KED
⌊	**As**	**75**	**50.279**	ug/L	1.185	2	2	12772	0	KED
	Y	**89**		ug/L			40140	41165	1	Standard
	Kr	**83**		ug/L			40	45	19	Standard
⌈>	**In-1**	**115**		ug/L			6950	6605	2	KED
|	**Cd**	**111**	**48.346**	ug/L	0.954	1	3	11548	0	KED
⌊	**Cd**	**114**	**49.017**	ug/L	1.180	2	0	29865	0	KED
⌈>	**In**	**115**		ug/L			429431	430018	0	Standard
|	**Ag**	**107**	**48.606**	ug/L	0.839	1	24	680582	1	Standard
|	**Ba**	**135**	**48.913**	ug/L	0.978	2	46	254944	2	Standard
⌊	**Ba**	**137**	**48.708**	ug/L	0.267	0	85	452897	0	Standard
⌈>	**Tb**	**159**		ug/L			166755	176847	0	Standard
⌊	**Pb**	**208**	**48.974**	ug/L	0.478	0	213	4182898	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:00:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	29643	3	Standard
⌈>	**Sc**	**45**		ug/L			488451	487286	0	Standard
|	**Cr**	**52**	**0.000**	ug/L	0.006	21725	8929	8908	0	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.005	120	95	89	7	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.000	12	208	253	2	Standard
⌈>	**Ge**	**72**		ug/L			31094	32611	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	214	36	33	27	KED
|	**Ni**	**62**	**0.009**	ug/L	0.020	219	5	7	66	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	51	24	41	19	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	424	18	17	37	KED
|	**Zn**	**66**	**0.020**	ug/L	0.002	9	23	35	3	KED
|	**Zn**	**67**	**0.041**	ug/L	0.013	31	4	8	13	KED
⌊	**As**	**75**	**0.003**	ug/L	0.008	234	2	3	62	KED
	Y	**89**		ug/L			40140	39383	1	Standard
	Kr	**83**		ug/L			40	33	18	Standard
⌈>	**In-1**	**115**		ug/L			6950	6576	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	105	3	2	49	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.008	97	0	5	88	KED
⌈>	**In**	**115**		ug/L			429431	427806	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	35	24	45	14	Standard
|	**Ba**	**135**	**0.000**	ug/L	0.003	825	46	48	25	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.003	817	85	88	26	Standard
⌈>	**Tb**	**159**		ug/L			166755	168082	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	33	213	311	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:06:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	46985	4	Standard
>	Sc	45		ug/L			488451	534721	1	Standard
	Cr	52	27.742	ug/L	0.720	2	8929	412240	3	Standard
	Cr	53	28.038	ug/L	0.287	1	95	47020	1	Standard
	Mn	55	1064.142	ug/L	28.598	2	208	22494749	3	Standard
>	Ge	72		ug/L			31094	32051	1	KED
	Ni	60	15.678	ug/L	0.036	0	36	23824	1	KED
	Ni	62	16.233	ug/L	0.031	0	5	3891	1	KED
	Cu	63	46.517	ug/L	0.453	0	24	198148	0	KED
	Cu	65	45.801	ug/L	0.802	1	18	99088	1	KED
	Zn	66	173.657	ug/L	4.375	2	23	91903	1	KED
	Zn	67	165.252	ug/L	1.668	1	4	14262	0	KED
	As	75	12.925	ug/L	0.220	1	2	3336	0	KED
	Y	89		ug/L			40140	142103	1	Standard
	Kr	83		ug/L			40	71	10	Standard
>	In-1	115		ug/L			6950	6885	2	KED
	Cd	111	0.414	ug/L	0.001	0	3	106	2	KED
	Cd	114	0.366	ug/L	0.022	5	0	233	4	KED
>	In	115		ug/L			429431	393324	2	Standard
	Ag	107	0.162	ug/L	0.006	3	24	2101	6	Standard
	Ba	135	31.697	ug/L	0.823	2	46	151057	0	Standard
	Ba	137	30.637	ug/L	0.149	0	85	260595	2	Standard
>	Tb	159		ug/L			166755	168476	0	Standard
	Pb	208	151.589	ug/L	2.471	1	213	12335180	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:11:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	46502	4	Standard
>	Sc	45		ug/L			488451	543996	2	Standard
	Cr	52	30.867	ug/L	0.240	0	8929	465460	2	Standard
	Cr	53	31.076	ug/L	0.581	1	95	53005	2	Standard
	Mn	55	455.053	ug/L	4.939	1	208	9786918	3	Standard
>	Ge	72		ug/L			31094	30784	1	KED
	Ni	60	15.099	ug/L	0.155	1	36	22037	1	KED
	Ni	62	14.992	ug/L	0.644	4	5	3451	3	KED
	Cu	63	131.128	ug/L	5.499	4	24	536254	2	KED
	Cu	65	131.305	ug/L	2.284	1	18	272796	0	KED
	Zn	66	169.823	ug/L	4.654	2	23	86314	1	KED
	Zn	67	157.006	ug/L	1.585	1	4	13016	1	KED
	As	75	18.607	ug/L	0.104	0	2	4613	1	KED
	Y	89		ug/L			40140	155497	1	Standard
	Kr	83		ug/L			40	89	14	Standard
>	In-1	115		ug/L			6950	6472	1	KED
	Cd	111	12.622	ug/L	0.366	2	3	2957	2	KED
	Cd	114	12.499	ug/L	0.041	0	0	7466	1	KED
>	In	115		ug/L			429431	414369	2	Standard
	Ag	107	0.148	ug/L	0.002	1	24	2024	3	Standard
	Ba	135	21.870	ug/L	0.587	2	46	109854	2	Standard
	Ba	137	21.381	ug/L	0.340	1	85	191573	1	Standard
>	Tb	159		ug/L			166755	179904	3	Standard
	Pb	208	745.655	ug/L	14.614	1	213	64757164	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:15:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	49445	4	Standard
>	Sc	45		ug/L			488451	557144	2	Standard
	Cr	52	21.947	ug/L	0.141	0	8929	341879	2	Standard
	Cr	53	22.190	ug/L	0.381	1	95	38788	2	Standard
	Mn	55	329.777	ug/L	2.960	0	208	7262106	1	Standard
>	Ge	72		ug/L			31094	31410	1	KED
	Ni	60	12.193	ug/L	0.133	1	36	18167	1	KED
	Ni	62	12.756	ug/L	0.087	0	5	2997	0	KED
	Cu	63	87.915	ug/L	0.516	0	24	366988	0	KED
	Cu	65	86.966	ug/L	1.593	1	18	184386	2	KED
	Zn	66	133.428	ug/L	1.490	1	23	69214	0	KED
	Zn	67	126.587	ug/L	0.681	0	4	10708	0	KED
	As	75	6.938	ug/L	0.154	2	2	1756	1	KED
	Y	89		ug/L			40140	162765	0	Standard
	Kr	83		ug/L			40	78	14	Standard
>	In-1	115		ug/L			6950	6408	2	KED
	Cd	111	0.222	ug/L	0.004	1	3	54	1	KED
	Cd	114	0.192	ug/L	0.008	4	0	114	6	KED
>	In	115		ug/L			429431	423474	3	Standard
	Ag	107	0.121	ug/L	0.012	9	24	1683	6	Standard
	Ba	135	23.608	ug/L	0.725	3	46	121113	0	Standard
	Ba	137	23.286	ug/L	0.661	2	85	213135	1	Standard
>	Tb	159		ug/L			166755	190018	1	Standard
	Pb	208	268.236	ug/L	5.726	2	213	24611827	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:20:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	43125	3	Standard
>	Sc	45		ug/L			488451	568425	3	Standard
	Cr	52	11.128	ug/L	0.256	2	8929	181902	1	Standard
	Cr	53	11.274	ug/L	0.144	1	95	20167	3	Standard
	Mn	55	78.112	ug/L	0.641	0	208	1755331	3	Standard
>	Ge	72		ug/L			31094	31370	1	KED
	Ni	60	8.987	ug/L	0.100	1	36	13381	1	KED
	Ni	62	9.507	ug/L	0.203	2	5	2232	1	KED
	Cu	63	15.324	ug/L	0.349	2	24	63896	0	KED
	Cu	65	15.022	ug/L	0.351	2	18	31818	1	KED
	Zn	66	62.987	ug/L	1.489	2	23	32641	1	KED
	Zn	67	62.205	ug/L	0.150	0	4	5258	1	KED
	As	75	4.223	ug/L	0.106	2	2	1068	2	KED
	Y	89		ug/L			40140	164869	4	Standard
	Kr	83		ug/L			40	59	23	Standard
>	In-1	115		ug/L			6950	6674	2	KED
	Cd	111	0.164	ug/L	0.029	17	3	42	13	KED
	Cd	114	0.184	ug/L	0.005	2	0	113	1	KED
>	In	115		ug/L			429431	436073	0	Standard
	Ag	107	0.055	ug/L	0.004	7	24	800	8	Standard
	Ba	135	31.748	ug/L	0.181	0	46	167824	1	Standard
	Ba	137	31.695	ug/L	0.503	1	85	298917	2	Standard
>	Tb	159		ug/L			166755	198717	1	Standard
	Pb	208	11.851	ug/L	0.067	0	213	1137514	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:24:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	52682	5	Standard
>	Sc	45		ug/L			488451	588362	2	Standard
	Cr	52	9.639	ug/L	0.081	0	8929	164582	2	Standard
	Cr	53	9.847	ug/L	0.196	1	95	18240	1	Standard
	Mn	55	236.529	ug/L	1.621	0	208	5500825	2	Standard
>	Ge	72		ug/L			31094	33225	0	KED
	Ni	60	8.532	ug/L	0.131	1	36	13457	1	KED
	Ni	62	8.750	ug/L	0.263	3	5	2176	2	KED
	Cu	63	18.273	ug/L	0.399	2	24	80703	1	KED
	Cu	65	18.279	ug/L	0.790	4	18	41002	3	KED
	Zn	66	78.244	ug/L	1.706	2	23	42943	1	KED
	Zn	67	75.675	ug/L	1.756	2	4	6773	2	KED
	As	75	5.178	ug/L	0.031	0	2	1387	0	KED
	Y	89		ug/L			40140	155868	1	Standard
	Kr	83		ug/L			40	63	14	Standard
>	In-1	115		ug/L			6950	6990	1	KED
	Cd	111	0.159	ug/L	0.055	34	3	43	32	KED
	Cd	114	0.216	ug/L	0.010	4	0	139	5	KED
>	In	115		ug/L			429431	457253	0	Standard
	Ag	107	0.098	ug/L	0.004	3	24	1487	3	Standard
	Ba	135	26.043	ug/L	0.215	0	46	144364	1	Standard
	Ba	137	26.184	ug/L	0.847	3	85	258950	3	Standard
>	Tb	159		ug/L			166755	203335	0	Standard
	Pb	208	44.443	ug/L	0.772	1	213	4364411	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:29:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30125	50602	3	Standard
> Sc	45		ug/L			488451	631146	5	Standard
Cr	52	15.659	ug/L	0.589	3	8929	279291	2	Standard
Cr	53	15.823	ug/L	0.301	1	95	31355	3	Standard
Mn	55	235.921	ug/L	3.276	1	208	5884205	4	Standard
> Ge	72		ug/L			31094	33332	1	KED
Ni	60	19.230	ug/L	0.351	1	36	30377	0	KED
Ni	62	19.008	ug/L	0.180	0	5	4737	1	KED
Cu	63	54.270	ug/L	0.333	0	24	240431	1	KED
Cu	65	54.135	ug/L	0.602	1	18	121818	2	KED
Zn	66	194.999	ug/L	3.341	1	23	107329	1	KED
Zn	67	185.832	ug/L	0.783	0	4	16680	1	KED
As	75	5.114	ug/L	0.095	1	2	1374	1	KED
Y	89		ug/L			40140	233218	3	Standard
Kr	83		ug/L			40	90	12	Standard
> In-1	115		ug/L			6950	6868	1	KED
Cd	111	0.418	ug/L	0.031	7	3	107	5	KED
Cd	114	0.429	ug/L	0.029	6	0	272	6	KED
> In	115		ug/L			429431	446354	3	Standard
Ag	107	0.123	ug/L	0.002	1	24	1805	2	Standard
Ba	135	34.836	ug/L	0.436	1	46	188478	3	Standard
Ba	137	34.431	ug/L	0.869	2	85	332185	2	Standard
> Tb	159		ug/L			166755	209030	2	Standard
Pb	208	24.530	ug/L	0.094	0	213	2476421	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:34:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	33902	4	Standard
⌈>	**Sc**	**45**		ug/L			488451	509317	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.003	34	8929	9169	1	Standard
|	**Cr**	**53**	**-0.014**	ug/L	0.004	29	95	76	10	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.002	25	208	392	11	Standard
⌈>	**Ge**	**72**		ug/L			31094	33105	3	KED
|	**Ni**	**60**	**-0.010**	ug/L	0.004	40	36	23	28	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.000	1	5	1		KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	25	24	58	14	KED
|	**Cu**	**65**	**0.005**	ug/L	0.004	80	18	30	28	KED
|	**Zn**	**66**	**0.032**	ug/L	0.022	68	23	42	29	KED
|	**Zn**	**67**	**0.061**	ug/L	0.054	88	4	10	47	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.002	98	2	1	31	KED
	Y	**89**		ug/L			40140	40283	2	Standard
	Kr	**83**		ug/L			40	36	9	Standard
⌈>	**In-1**	**115**		ug/L			6950	6626	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	66	3	2	21	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.003	40	0	5	35	KED
⌈>	**In**	**115**		ug/L			429431	437233	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	21	24	14	15	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.000	64	46	44	6	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	198	85	91	7	Standard
⌈>	**Tb**	**159**		ug/L			166755	178936	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	213	482	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:40:52

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30125	38182	4	Standard
> Sc	45		ug/L			488451	677388	3	Standard
Cr	52	38.068	ug/L	0.685	1	8929	711624	1	Standard
Cr	53	38.733	ug/L	1.470	3	95	82170	1	Standard
Mn	55	373.479	ug/L	7.490	2	208	9996495	1	Standard
> Ge	72		ug/L			31094	32777	1	KED
Ni	60	66.532	ug/L	2.386	3	36	103242	2	KED
Ni	62	67.162	ug/L	1.345	2	5	16448	2	KED
Cu	63	165.307	ug/L	1.190	0	24	720130	1	KED
Cu	65	163.973	ug/L	2.411	1	18	362734	0	KED
Zn	66	148.455	ug/L	3.061	2	23	80352	0	KED
Zn	67	141.313	ug/L	2.921	2	4	12472	0	KED
As	75	21.021	ug/L	0.453	2	2	5548	0	KED
Y	89		ug/L			40140	388292	2	Standard
Kr	83		ug/L			40	179	8	Standard
> In-1	115		ug/L			6950	6715	2	KED
Cd	111	24.505	ug/L	0.693	2	3	5952	1	KED
Cd	114	24.265	ug/L	0.380	1	0	15034	0	KED
> In	115		ug/L			429431	410418	2	Standard
Ag	107	24.850	ug/L	0.270	1	24	332055	1	Standard
Ba	135	35.070	ug/L	0.499	1	46	174462	2	Standard
Ba	137	33.654	ug/L	0.449	1	85	298697	3	Standard
> Tb	159		ug/L			166755	214273	1	Standard
Pb	208	31.024	ug/L	0.787	2	213	3210544	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:46:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	34214	5	Standard
⌈>	**Sc**	**45**		ug/L			488451	519979	1	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.004	16	8929	9169	2	Standard
|	**Cr**	**53**	**-0.017**	ug/L	0.004	24	95	73	11	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.001	25	208	320	5	Standard
⌈>	**Ge**	**72**		ug/L			31094	33035	3	KED
|	**Ni**	**60**	**0.061**	ug/L	0.059	95	36	132	68	KED
|	**Ni**	**62**	**0.033**	ug/L	0.048	144	5	13	86	KED
|	**Cu**	**63**	**0.179**	ug/L	0.156	87	24	801	85	KED
|	**Cu**	**65**	**0.164**	ug/L	0.157	95	18	382	91	KED
|	**Zn**	**66**	**0.164**	ug/L	0.147	89	23	113	69	KED
|	**Zn**	**67**	**0.135**	ug/L	0.173	128	4	16	93	KED
⌊	**As**	**75**	**0.029**	ug/L	0.026	86	2	10	67	KED
	Y	**89**		ug/L			40140	40195	1	Standard
	Kr	**83**		ug/L			40	44	19	Standard
⌈>	**In-1**	**115**		ug/L			6950	6917	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	291	3	3	25	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	61	0	3	51	KED
⌈>	**In**	**115**		ug/L			429431	432133	1	Standard
|	**Ag**	**107**	**0.000**	ug/L	0.001	905	24	26	37	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.002	129	46	40	21	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	43	85	56	21	Standard
⌈>	**Tb**	**159**		ug/L			166755	179540	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	44	213	278	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:50:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	31361	3	Standard
⌈>	**Sc**	**45**		ug/L			488451	510631	1	Standard
|	**Cr**	**52**	**48.852**	ug/L	1.102	2	8929	685926	1	Standard
|	**Cr**	**53**	**48.864**	ug/L	0.948	1	95	78172	1	Standard
⌊	**Mn**	**55**	**48.790**	ug/L	1.863	3	208	984808	2	Standard
⌈>	**Ge**	**72**		ug/L			31094	33139	0	KED
|	**Ni**	**60**	**49.000**	ug/L	0.527	1	36	76909	1	KED
|	**Ni**	**62**	**49.629**	ug/L	0.936	1	5	12290	2	KED
|	**Cu**	**63**	**49.216**	ug/L	0.050	0	24	216780	0	KED
|	**Cu**	**65**	**48.963**	ug/L	0.852	1	18	109532	1	KED
|	**Zn**	**66**	**51.210**	ug/L	1.079	2	23	28043	1	KED
|	**Zn**	**67**	**50.210**	ug/L	0.199	0	4	4484	0	KED
⌊	**As**	**75**	**49.346**	ug/L	0.471	0	2	13167	1	KED
	Y	**89**		ug/L			40140	40043	0	Standard
	Kr	**83**		ug/L			40	41	15	Standard
⌈>	**In-1**	**115**		ug/L			6950	6706	1	KED
|	**Cd**	**111**	**49.190**	ug/L	1.141	2	3	11934	2	KED
⌊	**Cd**	**114**	**48.845**	ug/L	0.837	1	0	30229	2	KED
⌈>	**In**	**115**		ug/L			429431	427274	0	Standard
|	**Ag**	**107**	**49.191**	ug/L	1.107	2	24	684390	2	Standard
|	**Ba**	**135**	**50.763**	ug/L	0.378	0	46	262894	0	Standard
⌊	**Ba**	**137**	**50.712**	ug/L	1.304	2	85	468482	2	Standard
⌈>	**Tb**	**159**		ug/L			166755	182549	2	Standard
⌊	**Pb**	**208**	**48.451**	ug/L	0.915	1	213	4270718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:58:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	29097	5	Standard
⌈>	**Sc**	**45**		ug/L			488451	490683	2	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.016	57	8929	8604	2	Standard
|	**Cr**	**53**	**-0.020**	ug/L	0.005	26	95	65	10	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	42	208	264	6	Standard
⌈>	**Ge**	**72**		ug/L			31094	31437	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.004	119	36	31	21	KED
|	**Ni**	**62**	**0.002**	ug/L	0.001	26	5	5	0	KED
|	**Cu**	**63**	**0.007**	ug/L	0.001	7	24	54	4	KED
|	**Cu**	**65**	**0.006**	ug/L	0.004	71	18	31	30	KED
|	**Zn**	**66**	**0.027**	ug/L	0.015	56	23	38	22	KED
|	**Zn**	**67**	**0.007**	ug/L	0.012	172	4	5	21	KED
⌊	**As**	**75**	**0.007**	ug/L	0.006	88	2	3	36	KED
	Y	**89**		ug/L			40140	39951	3	Standard
	Kr	**83**		ug/L			40	38	10	Standard
⌈>	**In-1**	**115**		ug/L			6950	6671	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	94	3	2	49	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.004	50	0	4	45	KED
⌈>	**In**	**115**		ug/L			429431	425844	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	42	24	47	20	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	99	46	59	19	Standard
⌊	**Ba**	**137**	**-0.002**	ug/L	0.000	17	85	68	2	Standard
⌈>	**Tb**	**159**		ug/L			166755	170214	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	17	213	433	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:03:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28285	5	Standard
⌈>	**Sc**	**45**		ug/L				489773	1	Standard
|	**Cr**	**52**		ug/L				8505	2	Standard
⌊	**Cr**	**53**		ug/L				60	5	Standard
⌈>	**Ge**	**72**		ug/L				31037	2	KED
|	**Cu**	**63**		ug/L				42	18	KED
|	**Cu**	**65**		ug/L				15	79	KED
|	**Zn**	**66**		ug/L				22	36	KED
|	**Zn**	**67**		ug/L				4	65	KED
⌊	**As**	**75**		ug/L				3	34	KED
	Y	**89**		ug/L				38706	2	Standard
	Kr	**83**		ug/L				31	34	Standard
⌈>	**In-1**	**115**		ug/L				6431	1	KED
|	**Cd**	**111**		ug/L				3	75	KED
⌊	**Cd**	**114**		ug/L				0	208	KED
⌈>	**In**	**115**		ug/L				415168	1	Standard
⌊	**Ag**	**107**		ug/L				37	32	Standard
⌈>	**Tb**	**159**		ug/L				170846	0	Standard
⌊	**Pb**	**208**		ug/L				364	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	29789	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	492820	1	Standard
|	**Cr**	**52**	**47.526**	ug/L	0.881	1	8505	643953	2	Standard
⌊	**Cr**	**53**	**48.003**	ug/L	0.353	0	60	74096	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31517	1	KED
|	**Cu**	**63**	**48.957**	ug/L	0.528	1	42	205076	0	KED
|	**Cu**	**65**	**48.445**	ug/L	0.610	1	15	103059	1	KED
|	**Zn**	**66**	**50.910**	ug/L	0.274	0	22	26515	1	KED
|	**Zn**	**67**	**49.932**	ug/L	2.398	4	4	4240	4	KED
⌊	**As**	**75**	**49.739**	ug/L	0.385	0	3	12622	0	KED
	Y	**89**		ug/L			38706	39760	2	Standard
	Kr	**83**		ug/L			31	36	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6548	0	KED
|	**Cd**	**111**	**48.693**	ug/L	0.226	0	3	11534	0	KED
⌊	**Cd**	**114**	**49.288**	ug/L	0.311	0	0	29781	0	KED
⌈>	**In**	**115**		ug/L			415168	405853	1	Standard
⌊	**Ag**	**107**	**50.361**	ug/L	1.548	3	37	665305	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	174104	1	Standard
⌊	**Pb**	**208**	**49.105**	ug/L	0.386	0	364	4128822	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:15:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28697	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	484962	1	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.008	205	8505	8370	2	Standard
⌊	**Cr**	**53**	**0.007**	ug/L	0.006	90	60	70	14	Standard
⌈>	**Ge**	**72**		ug/L			31037	31012	0	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	78	42	52	14	KED
|	**Cu**	**65**	**0.006**	ug/L	0.005	87	15	27	37	KED
|	**Zn**	**66**	**0.030**	ug/L	0.010	32	22	38	13	KED
|	**Zn**	**67**	**0.023**	ug/L	0.095	417	4	6	124	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	343	3	3	18	KED
	Y	**89**		ug/L			38706	38893	2	Standard
	Kr	**83**		ug/L			31	50	28	Standard
⌈>	**In-1**	**115**		ug/L			6431	6579	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	138	3	2	65	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	190	0	1	99	KED
⌈>	**In**	**115**		ug/L			415168	423463	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	205	37	43	26	Standard
⌈>	**Tb**	**159**		ug/L			170846	170623	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	203	364	394	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:22:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	48851	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	577049	3	Standard
|	**Cr**	**52**	**13.738**	ug/L	0.110	0	8505	225029	3	Standard
⌊	**Cr**	**53**	**13.944**	ug/L	0.189	1	60	25244	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31520	0	KED
|	**Cu**	**63**	**31.485**	ug/L	1.089	3	42	131942	3	KED
|	**Cu**	**65**	**31.317**	ug/L	0.931	2	15	66646	3	KED
|	**Zn**	**66**	**59.634**	ug/L	0.617	1	22	31058	1	KED
|	**Zn**	**67**	**56.517**	ug/L	1.374	2	4	4800	2	KED
⌊	**As**	**75**	**6.809**	ug/L	0.157	2	3	1731	2	KED
	Y	**89**		ug/L			38706	202589	3	Standard
	Kr	**83**		ug/L			31	67	21	Standard
⌈>	**In-1**	**115**		ug/L			6431	6849	3	KED
|	**Cd**	**111**	**0.194**	ug/L	0.034	17	3	51	16	KED
⌊	**Cd**	**114**	**0.228**	ug/L	0.029	12	0	143	9	KED
⌈>	**In**	**115**		ug/L			415168	425958	2	Standard
⌊	**Ag**	**107**	**0.147**	ug/L	0.007	4	37	2083	5	Standard
⌈>	**Tb**	**159**		ug/L			170846	199303	2	Standard
⌊	**Pb**	**208**	**12.702**	ug/L	0.088	0	364	1223123	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:27:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	52612	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	588040	1	Standard
|	**Cr**	**52**	**14.298**	ug/L	0.054	0	8505	238304	2	Standard
⌊	**Cr**	**53**	**14.269**	ug/L	0.142	0	60	26330	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31325	1	KED
|	**Cu**	**63**	**34.136**	ug/L	0.313	0	42	142137	0	KED
|	**Cu**	**65**	**33.400**	ug/L	0.799	2	15	70615	0	KED
|	**Zn**	**66**	**65.895**	ug/L	1.586	2	22	34095	0	KED
|	**Zn**	**67**	**65.267**	ug/L	0.838	1	4	5508	1	KED
⌊	**As**	**75**	**7.587**	ug/L	0.122	1	3	1916	1	KED
	Y	**89**		ug/L			38706	205508	0	Standard
	Kr	**83**		ug/L			31	71	24	Standard
⌈>	**In-1**	**115**		ug/L			6431	6667	2	KED
|	**Cd**	**111**	**0.243**	ug/L	0.027	11	3	61	9	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.042	18	0	138	16	KED
⌈>	**In**	**115**		ug/L			415168	427225	1	Standard
⌊	**Ag**	**107**	**0.148**	ug/L	0.004	2	37	2103	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	203411	2	Standard
⌊	**Pb**	**208**	**13.736**	ug/L	0.326	2	364	1349193	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0008-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:31:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	47376	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	581887	0	Standard
|	**Cr**	**52**	**12.314**	ug/L	0.033	0	8505	204488	0	Standard
⌊	**Cr**	**53**	**12.138**	ug/L	0.153	1	60	22175	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	30368	4	KED
|	**Cu**	**63**	**27.278**	ug/L	0.612	2	42	110055	2	KED
|	**Cu**	**65**	**26.800**	ug/L	0.990	3	15	54888	1	KED
|	**Zn**	**66**	**96.499**	ug/L	2.661	2	22	48366	1	KED
|	**Zn**	**67**	**93.435**	ug/L	1.571	1	4	7639	2	KED
⌊	**As**	**75**	**5.151**	ug/L	0.287	5	3	1260	1	KED
	Y	**89**		ug/L			38706	199023	1	Standard
	Kr	**83**		ug/L			31	67	18	Standard
⌈>	**In-1**	**115**		ug/L			6431	6421	1	KED
|	**Cd**	**111**	**0.175**	ug/L	0.034	19	3	43	19	KED
⌊	**Cd**	**114**	**0.155**	ug/L	0.039	24	0	91	22	KED
⌈>	**In**	**115**		ug/L			415168	421474	3	Standard
⌊	**Ag**	**107**	**0.108**	ug/L	0.006	5	37	1521	2	Standard
⌈>	**Tb**	**159**		ug/L			170846	200348	1	Standard
⌊	**Pb**	**208**	**10.076**	ug/L	0.105	1	364	975298	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0136-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:35:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	53073	3	Standard
⌈>	Sc	45		ug/L			489773	576636	1	Standard
|	Cr	52	14.019	ug/L	0.167	1	8505	229281	1	Standard
⌊	Cr	53	14.292	ug/L	0.280	1	60	25856	1	Standard
⌈>	Ge	72		ug/L			31037	30759	0	KED
|	Cu	63	37.943	ug/L	0.461	1	42	155136	0	KED
|	Cu	65	37.261	ug/L	0.388	1	15	77367	0	KED
|	Zn	66	84.809	ug/L	1.417	1	22	43090	1	KED
|	Zn	67	82.483	ug/L	1.771	2	4	6834	2	KED
⌊	As	75	9.140	ug/L	0.287	3	3	2266	2	KED
	Y	89		ug/L			38706	203759	0	Standard
	Kr	83		ug/L			31	71	15	Standard
⌈>	In-1	115		ug/L			6431	6435	0	KED
|	Cd	111	0.194	ug/L	0.021	10	3	48	10	KED
⌊	Cd	114	0.249	ug/L	0.007	2	0	148	3	KED
⌈>	In	115		ug/L			415168	422509	1	Standard
⌊	Ag	107	0.157	ug/L	0.006	3	37	2198	4	Standard
⌈>	Tb	159		ug/L			170846	198005	0	Standard
⌊	Pb	208	15.362	ug/L	0.160	1	364	1469423	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0136-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:40:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	50849	3	Standard
⌈>	Sc	45		ug/L			489773	582688	1	Standard
|	Cr	52	14.489	ug/L	0.118	0	8505	239127	1	Standard
⌊	Cr	53	14.675	ug/L	0.275	1	60	26833	3	Standard
⌈>	Ge	72		ug/L			31037	31484	1	KED
|	Cu	63	35.162	ug/L	0.415	1	42	147153	0	KED
|	Cu	65	34.804	ug/L	0.505	1	15	73971	1	KED
|	Zn	66	65.580	ug/L	0.825	1	22	34111	0	KED
|	Zn	67	63.513	ug/L	0.902	1	4	5387	1	KED
⌊	As	75	8.323	ug/L	0.120	1	3	2112	0	KED
	Y	89		ug/L			38706	200945	1	Standard
	Kr	83		ug/L			31	82	5	Standard
⌈>	In-1	115		ug/L			6431	6536	1	KED
|	Cd	111	0.233	ug/L	0.021	8	3	58	8	KED
⌊	Cd	114	0.235	ug/L	0.013	5	0	142	4	KED
⌈>	In	115		ug/L			415168	431832	2	Standard
⌊	Ag	107	0.161	ug/L	0.009	5	37	2299	3	Standard
⌈>	Tb	159		ug/L			170846	200028	1	Standard
⌊	Pb	208	14.745	ug/L	0.110	0	364	1424758	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0396-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:44:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	55864	5	Standard
⌈>	Sc	45		ug/L			489773	589497	0	Standard
|	Cr	52	14.311	ug/L	0.130	0	8505	239086	0	Standard
⌊	Cr	53	14.650	ug/L	0.191	1	60	27097	0	Standard
⌈>	Ge	72		ug/L			31037	31122	1	KED
|	Cu	63	38.316	ug/L	0.293	0	42	158513	1	KED
|	Cu	65	38.064	ug/L	0.356	0	15	79961	1	KED
|	Zn	66	71.053	ug/L	1.084	1	22	36536	2	KED
|	Zn	67	67.339	ug/L	2.040	3	4	5646	3	KED
⌊	As	75	7.097	ug/L	0.133	1	3	1781	3	KED
	Y	89		ug/L			38706	215059	2	Standard
	Kr	83		ug/L			31	78	33	Standard
⌈>	In-1	115		ug/L			6431	6493	3	KED
|	Cd	111	0.193	ug/L	0.054	27	3	48	21	KED
⌊	Cd	114	0.220	ug/L	0.020	9	0	132	8	KED
⌈>	In	115		ug/L			415168	424926	1	Standard
⌊	Ag	107	0.157	ug/L	0.006	4	37	2216	3	Standard
⌈>	Tb	159		ug/L			170846	201951	1	Standard
⌊	Pb	208	15.085	ug/L	0.363	2	364	1471359	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0396-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:48:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	55777	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	572796	2	Standard
|	**Cr**	**52**	**14.013**	ug/L	0.199	1	8505	227627	1	Standard
⌊	**Cr**	**53**	**14.110**	ug/L	0.283	2	60	25353	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31260	0	KED
|	**Cu**	**63**	**34.557**	ug/L	0.140	0	42	143608	1	KED
|	**Cu**	**65**	**34.753**	ug/L	0.496	1	15	73336	1	KED
|	**Zn**	**66**	**66.426**	ug/L	0.936	1	22	34305	1	KED
|	**Zn**	**67**	**63.224**	ug/L	1.361	2	4	5325	2	KED
⌊	**As**	**75**	**6.306**	ug/L	0.132	2	3	1589	1	KED
	Y	**89**		ug/L			38706	202469	0	Standard
	Kr	**83**		ug/L			31	66	5	Standard
⌈>	**In-1**	**115**		ug/L			6431	6464	0	KED
|	**Cd**	**111**	**0.194**	ug/L	0.009	4	3	48	5	KED
⌊	**Cd**	**114**	**0.184**	ug/L	0.007	3	0	110	3	KED
⌈>	**In**	**115**		ug/L			415168	425206	0	Standard
⌊	**Ag**	**107**	**0.138**	ug/L	0.002	1	37	1953	0	Standard
⌈>	**Tb**	**159**		ug/L			170846	197182	1	Standard
⌊	**Pb**	**208**	**13.939**	ug/L	0.210	1	364	1327642	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:53:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46448	5	Standard
⌈>	Sc	45		ug/L			489773	549846	2	Standard
|	Cr	52	17.371	ug/L	0.291	1	8505	268634	2	Standard
⌊	Cr	53	17.651	ug/L	0.219	1	60	30439	3	Standard
⌈>	Ge	72		ug/L			31037	31365	0	KED
|	Cu	63	25.021	ug/L	0.154	0	42	104333	0	KED
|	Cu	65	24.851	ug/L	0.217	0	15	52626	1	KED
|	Zn	66	57.690	ug/L	0.363	0	22	29897	0	KED
|	Zn	67	56.329	ug/L	3.259	5	4	4759	4	KED
⌊	As	75	5.835	ug/L	0.052	0	3	1476	1	KED
	Y	89		ug/L			38706	164691	2	Standard
	Kr	83		ug/L			31	52	18	Standard
⌈>	In-1	115		ug/L			6431	6493	1	KED
|	Cd	111	0.078	ug/L	0.024	30	3	21	24	KED
⌊	Cd	114	0.080	ug/L	0.018	22	0	48	20	KED
⌈>	In	115		ug/L			415168	421529	1	Standard
⌊	Ag	107	0.242	ug/L	0.008	3	37	3355	4	Standard
⌈>	Tb	159		ug/L			170846	194334	0	Standard
⌊	Pb	208	11.882	ug/L	0.325	2	364	1115373	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:57:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	43461	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	545974	1	Standard
|	**Cr**	**52**	**17.152**	ug/L	0.276	1	8505	263488	1	Standard
⌊	**Cr**	**53**	**16.985**	ug/L	0.153	0	60	29086	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	31095	0	KED
|	**Cu**	**63**	**43.419**	ug/L	1.078	2	42	179456	2	KED
|	**Cu**	**65**	**43.123**	ug/L	0.628	1	15	90515	0	KED
|	**Zn**	**66**	**109.906**	ug/L	1.583	1	22	56445	0	KED
|	**Zn**	**67**	**104.388**	ug/L	2.835	2	4	8742	2	KED
⌊	**As**	**75**	**4.796**	ug/L	0.203	4	3	1203	3	KED
	Y	**89**		ug/L			38706	160463	1	Standard
	Kr	**83**		ug/L			31	53	15	Standard
⌈>	**In-1**	**115**		ug/L			6431	6538	2	KED
|	**Cd**	**111**	**0.076**	ug/L	0.028	37	3	21	33	KED
⌊	**Cd**	**114**	**0.090**	ug/L	0.014	15	0	54	13	KED
⌈>	**In**	**115**		ug/L			415168	418749	2	Standard
⌊	**Ag**	**107**	**0.052**	ug/L	0.003	6	37	748	3	Standard
⌈>	**Tb**	**159**		ug/L			170846	193022	1	Standard
⌊	**Pb**	**208**	**23.659**	ug/L	0.416	1	364	2205491	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:02:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31345	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	473998	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.017	149	8505	8374	2	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.001	62	60	55	5	Standard
⌈>	**Ge**	**72**		ug/L			31037	31201	1	KED
|	**Cu**	**63**	**0.014**	ug/L	0.023	158	42	101	91	KED
|	**Cu**	**65**	**0.017**	ug/L	0.023	134	15	51	91	KED
|	**Zn**	**66**	**0.030**	ug/L	0.050	168	22	38	66	KED
|	**Zn**	**67**	**0.030**	ug/L	0.048	159	4	6	56	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.003	38	3	1	57	KED
	Y	**89**		ug/L			38706	39592	4	Standard
	Kr	**83**		ug/L			31	40	23	Standard
⌈>	**In-1**	**115**		ug/L			6431	6544	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.003	223	3	3	15	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	7103	0	0	209	KED
⌈>	**In**	**115**		ug/L			415168	422329	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	17	37	15	25	Standard
⌈>	**Tb**	**159**		ug/L			170846	170875	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	17	364	216	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:07:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28899	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	482605	1	Standard
|	**Cr**	**52**	**48.592**	ug/L	0.483	0	8505	644491	1	Standard
⌊	**Cr**	**53**	**48.168**	ug/L	0.910	1	60	72792	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	31124	2	KED
|	**Cu**	**63**	**49.252**	ug/L	0.912	1	42	203714	1	KED
|	**Cu**	**65**	**49.051**	ug/L	1.631	3	15	103007	1	KED
|	**Zn**	**66**	**50.122**	ug/L	1.329	2	22	25769	0	KED
|	**Zn**	**67**	**50.418**	ug/L	2.174	4	4	4226	2	KED
⌊	**As**	**75**	**49.790**	ug/L	1.321	2	3	12473	0	KED
	Y	**89**		ug/L			38706	40740	2	Standard
	Kr	**83**		ug/L			31	43	13	Standard
⌈>	**In-1**	**115**		ug/L			6431	6726	3	KED
|	**Cd**	**111**	**48.091**	ug/L	1.867	3	3	11693	1	KED
⌊	**Cd**	**114**	**48.760**	ug/L	1.508	3	0	30247	0	KED
⌈>	**In**	**115**		ug/L			415168	420228	3	Standard
⌊	**Ag**	**107**	**49.016**	ug/L	1.974	4	37	670195	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	175745	2	Standard
⌊	**Pb**	**208**	**49.189**	ug/L	0.972	1	364	4174139	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:14:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28266	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	475445	3	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.009	207	8505	8197	2	Standard
⌊	**Cr**	**53**	**-0.000**	ug/L	0.005	7964	60	58	11	Standard
⌈>	**Ge**	**72**		ug/L			31037	31118	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	39	42	50	5	KED
|	**Cu**	**65**	**0.007**	ug/L	0.005	67	15	31	33	KED
|	**Zn**	**66**	**0.026**	ug/L	0.007	27	22	36	9	KED
|	**Zn**	**67**	**0.038**	ug/L	0.047	122	4	7	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.005	385	3	3	34	KED
	Y	**89**		ug/L			38706	38769	1	Standard
	Kr	**83**		ug/L			31	29	43	Standard
⌈>	**In-1**	**115**		ug/L			6431	6283	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	917	3	2	88	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.003	54	0	3	49	KED
⌈>	**In**	**115**		ug/L			415168	422915	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	294	37	35	24	Standard
⌈>	**Tb**	**159**		ug/L			170846	169400	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	639	364	356	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:18:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	38997	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	553643	1	Standard
|	**Cr**	**52**	**9.316**	ug/L	0.259	2	8505	149520	2	Standard
⌊	**Cr**	**53**	**9.373**	ug/L	0.208	2	60	16308	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31627	2	KED
|	**Cu**	**63**	**29.984**	ug/L	0.541	1	42	126045	0	KED
|	**Cu**	**65**	**29.430**	ug/L	0.324	1	15	62837	2	KED
|	**Zn**	**66**	**52.353**	ug/L	1.686	3	22	27351	1	KED
|	**Zn**	**67**	**52.332**	ug/L	1.242	2	4	4459	0	KED
⌊	**As**	**75**	**3.039**	ug/L	0.073	2	3	777	3	KED
	Y	**89**		ug/L			38706	164478	3	Standard
	Kr	**83**		ug/L			31	56	15	Standard
⌈>	**In-1**	**115**		ug/L			6431	6291	1	KED
|	**Cd**	**111**	**0.028**	ug/L	0.007	25	3	9	17	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.005	11	0	25	12	KED
⌈>	**In**	**115**		ug/L			415168	427999	3	Standard
⌊	**Ag**	**107**	**0.030**	ug/L	0.002	8	37	455	11	Standard
⌈>	**Tb**	**159**		ug/L			170846	198983	0	Standard
⌊	**Pb**	**208**	**3.822**	ug/L	0.050	1	364	367686	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:23:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	38286	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	519453	1	Standard
|	**Cr**	**52**	**7.712**	ug/L	0.073	0	8505	117692	1	Standard
⌊	**Cr**	**53**	**7.871**	ug/L	0.226	2	60	12861	4	Standard
⌈>	**Ge**	**72**		ug/L			31037	31448	2	KED
|	**Cu**	**63**	**14.996**	ug/L	0.166	1	42	62705	1	KED
|	**Cu**	**65**	**14.792**	ug/L	0.208	1	15	31405	0	KED
|	**Zn**	**66**	**25.340**	ug/L	0.850	3	22	13173	1	KED
|	**Zn**	**67**	**26.232**	ug/L	0.411	1	4	2224	0	KED
⌊	**As**	**75**	**2.215**	ug/L	0.093	4	3	563	1	KED
	Y	**89**		ug/L			38706	152163	1	Standard
	Kr	**83**		ug/L			31	47	22	Standard
⌈>	**In-1**	**115**		ug/L			6431	6420	1	KED
|	**Cd**	**111**	**0.030**	ug/L	0.016	53	3	10	35	KED
⌊	**Cd**	**114**	**0.035**	ug/L	0.004	11	0	21	11	KED
⌈>	**In**	**115**		ug/L			415168	430376	2	Standard
⌊	**Ag**	**107**	**0.025**	ug/L	0.002	8	37	391	7	Standard
⌈>	**Tb**	**159**		ug/L			170846	195224	1	Standard
⌊	**Pb**	**208**	**1.547**	ug/L	0.006	0	364	146221	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:27:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	42020	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	531122	1	Standard
|	**Cr**	**52**	**41.170**	ug/L	0.332	0	8505	602419	2	Standard
⌊	**Cr**	**53**	**40.854**	ug/L	0.232	0	60	67969	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31204	0	KED
|	**Cu**	**63**	**64.749**	ug/L	0.743	1	42	268545	1	KED
|	**Cu**	**65**	**63.857**	ug/L	0.789	1	15	134517	2	KED
|	**Zn**	**66**	**98.107**	ug/L	1.480	1	22	50571	2	KED
|	**Zn**	**67**	**104.940**	ug/L	1.572	1	4	8819	1	KED
⌊	**As**	**75**	**7.411**	ug/L	0.058	0	3	1865	1	KED
	Y	**89**		ug/L			38706	146162	2	Standard
	Kr	**83**		ug/L			31	64	15	Standard
⌈>	**In-1**	**115**		ug/L			6431	6268	1	KED
|	**Cd**	**111**	**0.233**	ug/L	0.047	19	3	55	17	KED
⌊	**Cd**	**114**	**0.227**	ug/L	0.012	5	0	131	5	KED
⌈>	**In**	**115**		ug/L			415168	410437	2	Standard
⌊	**Ag**	**107**	**0.161**	ug/L	0.004	2	37	2188	3	Standard
⌈>	**Tb**	**159**		ug/L			170846	186241	1	Standard
⌊	**Pb**	**208**	**49.354**	ug/L	0.874	1	364	4438659	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:31:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46824	4	Standard
⌈>	Sc	45		ug/L			489773	553481	1	Standard
|	Cr	52	16.703	ug/L	0.354	2	8505	260343	0	Standard
⌊	Cr	53	16.901	ug/L	0.438	2	60	29335	1	Standard
⌈>	Ge	72		ug/L			31037	31314	1	KED
|	Cu	63	117.753	ug/L	1.729	1	42	490034	0	KED
|	Cu	65	115.655	ug/L	2.577	2	15	244431	1	KED
|	Zn	66	370.231	ug/L	7.694	2	22	191412	1	KED
|	Zn	67	351.821	ug/L	4.197	1	4	29662	0	KED
⌊	As	75	11.920	ug/L	0.103	0	3	3008	0	KED
	Y	89		ug/L			38706	209610	2	Standard
	Kr	83		ug/L			31	71	24	Standard
⌈>	In-1	115		ug/L			6431	6464	4	KED
|	Cd	111	0.784	ug/L	0.104	13	3	185	8	KED
⌊	Cd	114	0.780	ug/L	0.055	7	0	466	11	KED
⌈>	In	115		ug/L			415168	414094	1	Standard
⌊	Ag	107	0.213	ug/L	0.008	3	37	2914	5	Standard
⌈>	Tb	159		ug/L			170846	199232	1	Standard
⌊	Pb	208	155.646	ug/L	2.153	1	364	14974835	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	43502	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	536443	1	Standard
|	**Cr**	**52**	**15.990**	ug/L	0.351	2	8505	241957	1	Standard
⌊	**Cr**	**53**	**16.015**	ug/L	0.115	0	60	26951	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31252	0	KED
|	**Cu**	**63**	**23.396**	ug/L	0.365	1	42	97218	2	KED
|	**Cu**	**65**	**23.203**	ug/L	0.190	0	15	48957	0	KED
|	**Zn**	**66**	**55.790**	ug/L	0.407	0	22	28810	0	KED
|	**Zn**	**67**	**53.318**	ug/L	1.275	2	4	4490	1	KED
⌊	**As**	**75**	**5.847**	ug/L	0.035	0	3	1474	0	KED
	Y	**89**		ug/L			38706	147591	2	Standard
	Kr	**83**		ug/L			31	50	12	Standard
⌈>	**In-1**	**115**		ug/L			6431	6546	2	KED
|	**Cd**	**111**	**0.077**	ug/L	0.019	24	3	21	21	KED
⌊	**Cd**	**114**	**0.058**	ug/L	0.020	33	0	36	35	KED
⌈>	**In**	**115**		ug/L			415168	418793	1	Standard
⌊	**Ag**	**107**	**0.049**	ug/L	0.002	5	37	704	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	192806	0	Standard
⌊	**Pb**	**208**	**23.560**	ug/L	0.293	1	364	2194229	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:40:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	40353	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	529737	1	Standard
|	**Cr**	**52**	**14.653**	ug/L	0.363	2	8505	219719	1	Standard
⌊	**Cr**	**53**	**14.593**	ug/L	0.216	1	60	24257	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31322	0	KED
|	**Cu**	**63**	**21.651**	ug/L	0.262	1	42	90163	0	KED
|	**Cu**	**65**	**21.097**	ug/L	0.151	0	15	44614	0	KED
|	**Zn**	**66**	**67.677**	ug/L	0.813	1	22	35021	1	KED
|	**Zn**	**67**	**66.149**	ug/L	2.076	3	4	5582	2	KED
⌊	**As**	**75**	**4.939**	ug/L	0.116	2	3	1248	2	KED
	Y	**89**		ug/L			38706	148354	1	Standard
	Kr	**83**		ug/L			31	45	0	Standard
⌈>	**In-1**	**115**		ug/L			6431	6500	1	KED
|	**Cd**	**111**	**0.116**	ug/L	0.022	19	3	30	16	KED
⌊	**Cd**	**114**	**0.122**	ug/L	0.045	37	0	73	36	KED
⌈>	**In**	**115**		ug/L			415168	418029	0	Standard
⌊	**Ag**	**107**	**0.073**	ug/L	0.002	2	37	1027	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	195302	0	Standard
⌊	**Pb**	**208**	**32.536**	ug/L	0.079	0	364	3069165	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:44:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46655	4	Standard
⌈>	Sc	45		ug/L			489773	577415	1	Standard
|	Cr	52	15.546	ug/L	0.231	1	8505	253510	1	Standard
⌊	Cr	53	15.712	ug/L	0.183	1	60	28460	1	Standard
⌈>	Ge	72		ug/L			31037	30637	0	KED
|	Cu	63	39.182	ug/L	0.791	2	42	159565	1	KED
|	Cu	65	38.956	ug/L	0.839	2	15	80566	1	KED
|	Zn	66	72.613	ug/L	0.513	0	22	36752	0	KED
|	Zn	67	72.912	ug/L	3.167	4	4	6017	4	KED
⌊	As	75	7.143	ug/L	0.074	1	3	1764	1	KED
	Y	89		ug/L			38706	212682	1	Standard
	Kr	83		ug/L			31	72	9	Standard
⌈>	In-1	115		ug/L			6431	6400	2	KED
|	Cd	111	0.210	ug/L	0.016	7	3	51	8	KED
⌊	Cd	114	0.220	ug/L	0.010	4	0	130	7	KED
⌈>	In	115		ug/L			415168	420678	0	Standard
⌊	Ag	107	0.179	ug/L	0.003	1	37	2485	1	Standard
⌈>	Tb	159		ug/L			170846	202518	1	Standard
⌊	Pb	208	17.818	ug/L	0.280	1	364	1742837	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-28
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	51881	3	Standard
⌈>	Sc	45		ug/L			489773	566930	1	Standard
|	Cr	52	14.201	ug/L	0.102	0	8505	228254	1	Standard
⌊	Cr	53	14.083	ug/L	0.278	1	60	25058	2	Standard
⌈>	Ge	72		ug/L			31037	30561	1	KED
|	Cu	63	28.446	ug/L	0.330	1	42	115562	1	KED
|	Cu	65	28.645	ug/L	0.218	0	15	59097	1	KED
|	Zn	66	56.512	ug/L	0.566	1	22	28538	2	KED
|	Zn	67	53.910	ug/L	1.956	3	4	4438	1	KED
⌊	As	75	7.179	ug/L	0.024	0	3	1769	1	KED
	Y	89		ug/L			38706	208995	2	Standard
	Kr	83		ug/L			31	51	20	Standard
⌈>	In-1	115		ug/L			6431	6279	2	KED
|	Cd	111	0.182	ug/L	0.035	19	3	44	19	KED
⌊	Cd	114	0.199	ug/L	0.017	8	0	115	9	KED
⌈>	In	115		ug/L			415168	417569	1	Standard
⌊	Ag	107	0.138	ug/L	0.006	4	37	1912	4	Standard
⌈>	Tb	159		ug/L			170846	201351	0	Standard
⌊	Pb	208	10.669	ug/L	0.139	1	364	1037851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-29
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:53:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	49899	2	Standard
⌈>	Sc	45		ug/L			489773	567089	0	Standard
|	Cr	52	12.901	ug/L	0.140	1	8505	208311	1	Standard
⌊	Cr	53	13.083	ug/L	0.127	0	60	23287	1	Standard
⌈>	Ge	72		ug/L			31037	30821	0	KED
|	Cu	63	28.687	ug/L	0.561	1	42	117542	2	KED
|	Cu	65	28.326	ug/L	0.191	0	15	58942	1	KED
|	Zn	66	52.330	ug/L	0.021	0	22	26652	0	KED
|	Zn	67	50.585	ug/L	1.246	2	4	4201	1	KED
⌊	As	75	6.717	ug/L	0.081	1	3	1669	1	KED
	Y	89		ug/L			38706	187086	0	Standard
	Kr	83		ug/L			31	66	7	Standard
⌈>	In-1	115		ug/L			6431	6311	1	KED
|	Cd	111	0.155	ug/L	0.022	13	3	38	12	KED
⌊	Cd	114	0.143	ug/L	0.032	22	0	83	22	KED
⌈>	In	115		ug/L			415168	420809	2	Standard
⌊	Ag	107	0.143	ug/L	0.009	6	37	1999	6	Standard
⌈>	Tb	159		ug/L			170846	200244	0	Standard
⌊	Pb	208	11.420	ug/L	0.084	0	364	1104767	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:58:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31832	0	Standard
⌈>	**Sc**	**45**		ug/L			489773	467299	0	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.018	499	8505	8160	2	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.006	64	60	44	20	Standard
⌈>	**Ge**	**72**		ug/L			31037	29981	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	215	42	47	28	KED
|	**Cu**	**65**	**0.005**	ug/L	0.001	11	15	25	4	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.003	85	22	20	5	KED
|	**Zn**	**67**	**-0.014**	ug/L	0.036	251	4	3	91	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	67	3	2	35	KED
	Y	**89**		ug/L			38706	38062	2	Standard
	Kr	**83**		ug/L			31	41	19	Standard
⌈>	**In-1**	**115**		ug/L			6431	6328	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	254	3	2	57	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	61	0	2	47	KED
⌈>	**In**	**115**		ug/L			415168	418180	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	12	37	9	34	Standard
⌈>	**Tb**	**159**		ug/L			170846	168893	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	3	364	226	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 00:02:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	29659	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	480703	0	Standard
|	**Cr**	**52**	**48.479**	ug/L	0.498	1	8505	640524	1	Standard
⌊	**Cr**	**53**	**48.514**	ug/L	0.954	1	60	73036	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31103	1	KED
|	**Cu**	**63**	**49.409**	ug/L	1.022	2	42	204227	0	KED
|	**Cu**	**65**	**48.614**	ug/L	0.529	1	15	102058	0	KED
|	**Zn**	**66**	**49.228**	ug/L	0.915	1	22	25297	0	KED
|	**Zn**	**67**	**50.442**	ug/L	1.345	2	4	4227	1	KED
⌊	**As**	**75**	**49.437**	ug/L	0.931	1	3	12379	0	KED
	Y	**89**		ug/L			38706	40704	0	Standard
	Kr	**83**		ug/L			31	31	3	Standard
⌈>	**In-1**	**115**		ug/L			6431	6305	2	KED
|	**Cd**	**111**	**48.641**	ug/L	1.833	3	3	11089	1	KED
⌊	**Cd**	**114**	**49.361**	ug/L	0.357	0	0	28717	1	KED
⌈>	**In**	**115**		ug/L			415168	414363	1	Standard
⌊	**Ag**	**107**	**50.273**	ug/L	1.203	2	37	678201	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	177904	0	Standard
⌊	**Pb**	**208**	**49.193**	ug/L	0.355	0	364	4226831	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 00:09:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27567	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	470683	3	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.013	1520	8505	8184	3	Standard
⌊	**Cr**	**53**	**0.000**	ug/L	0.001	1858	60	58	6	Standard
⌈>	**Ge**	**72**		ug/L			31037	30027	1	KED
|	**Cu**	**63**	**0.001**	ug/L	0.005	399	42	45	40	KED
|	**Cu**	**65**	**0.006**	ug/L	0.003	57	15	27	26	KED
|	**Zn**	**66**	**0.016**	ug/L	0.003	20	22	29	3	KED
|	**Zn**	**67**	**0.057**	ug/L	0.076	132	4	8	68	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	183	3	3	30	KED
	Y	**89**		ug/L			38706	39448	2	Standard
	Kr	**83**		ug/L			31	39	18	Standard
⌈>	**In-1**	**115**		ug/L			6431	6410	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.000	0	3	0		KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.007	103	0	4	91	KED
⌈>	**In**	**115**		ug/L			415168	414592	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	12572	37	37	36	Standard
⌈>	**Tb**	**159**		ug/L			170846	169619	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	58	364	342	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:14:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	41192	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	537924	1	Standard
|	**Cr**	**52**	**17.195**	ug/L	0.038	0	8505	260259	1	Standard
⌊	**Cr**	**53**	**17.114**	ug/L	0.108	0	60	28878	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30751	1	KED
|	**Cu**	**63**	**32.218**	ug/L	0.519	1	42	131679	0	KED
|	**Cu**	**65**	**32.308**	ug/L	0.742	2	15	67054	1	KED
|	**Zn**	**66**	**103.263**	ug/L	1.686	1	22	52440	0	KED
|	**Zn**	**67**	**99.525**	ug/L	3.246	3	4	8240	1	KED
⌊	**As**	**75**	**24.542**	ug/L	0.621	2	3	6077	1	KED
	Y	**89**		ug/L			38706	170292	1	Standard
	Kr	**83**		ug/L			31	60	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6331	1	KED
|	**Cd**	**111**	**0.161**	ug/L	0.013	7	3	40	8	KED
⌊	**Cd**	**114**	**0.152**	ug/L	0.010	6	0	89	5	KED
⌈>	**In**	**115**		ug/L			415168	437202	2	Standard
⌊	**Ag**	**107**	**0.058**	ug/L	0.004	6	37	866	3	Standard
⌈>	**Tb**	**159**		ug/L			170846	199684	1	Standard
⌊	**Pb**	**208**	**42.091**	ug/L	0.667	1	364	4059151	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:19:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46899	1	Standard
⌈>	Sc	45		ug/L			489773	576312	1	Standard
|	Cr	52	13.207	ug/L	0.143	1	8505	216473	1	Standard
⌊	Cr	53	13.305	ug/L	0.255	1	60	24062	1	Standard
⌈>	Ge	72		ug/L			31037	30903	1	KED
|	Cu	63	26.300	ug/L	0.203	0	42	108053	1	KED
|	Cu	65	26.266	ug/L	0.263	0	15	54801	1	KED
|	Zn	66	67.223	ug/L	1.562	2	22	34315	1	KED
|	Zn	67	64.105	ug/L	1.911	2	4	5338	3	KED
⌊	As	75	7.939	ug/L	0.077	0	3	1978	2	KED
	Y	89		ug/L			38706	227750	2	Standard
	Kr	83		ug/L			31	74	23	Standard
⌈>	In-1	115		ug/L			6431	6240	1	KED
|	Cd	111	0.262	ug/L	0.029	11	3	62	11	KED
⌊	Cd	114	0.272	ug/L	0.019	6	0	157	8	KED
⌈>	In	115		ug/L			415168	425917	1	Standard
⌊	Ag	107	0.191	ug/L	0.006	3	37	2691	2	Standard
⌈>	Tb	159		ug/L			170846	202880	0	Standard
⌊	Pb	208	11.807	ug/L	0.091	0	364	1157220	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:23:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	41484	3	Standard
⌈>	Sc	45		ug/L			489773	546627	3	Standard
|	Cr	52	9.010	ug/L	0.019	0	8505	143092	3	Standard
⌊	Cr	53	9.160	ug/L	0.059	0	60	15738	3	Standard
⌈>	Ge	72		ug/L			31037	28599	12	KED
|	Cu	63	14.960	ug/L	1.707	11	42	56374	1	KED
|	Cu	65	14.786	ug/L	1.491	10	15	28324	2	KED
|	Zn	66	34.869	ug/L	3.250	9	22	16363	3	KED
|	Zn	67	33.803	ug/L	2.720	8	4	2591	6	KED
⌊	As	75	2.476	ug/L	0.217	8	3	569	6	KED
	Y	89		ug/L			38706	154862	1	Standard
	Kr	83		ug/L			31	59	6	Standard
⌈>	In-1	115		ug/L			6431	6434	6	KED
|	Cd	111	0.075	ug/L	0.026	34	3	20	23	KED
⌊	Cd	114	0.103	ug/L	0.042	40	0	60	33	KED
⌈>	In	115		ug/L			415168	445756	1	Standard
⌊	Ag	107	0.045	ug/L	0.002	4	37	696	3	Standard
⌈>	Tb	159		ug/L			170846	199553	2	Standard
⌊	Pb	208	5.418	ug/L	0.046	0	364	522497	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:27:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	42224	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	535637	0	Standard
|	**Cr**	**52**	**9.457**	ug/L	0.202	2	8505	146712	2	Standard
⌊	**Cr**	**53**	**9.378**	ug/L	0.119	1	60	15786	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31058	1	KED
|	**Cu**	**63**	**75.439**	ug/L	1.685	2	42	311361	1	KED
|	**Cu**	**65**	**74.439**	ug/L	0.979	1	15	156046	1	KED
|	**Zn**	**66**	**43.994**	ug/L	0.484	1	22	22580	0	KED
|	**Zn**	**67**	**42.128**	ug/L	0.370	0	4	3526	0	KED
⌊	**As**	**75**	**8.261**	ug/L	0.192	2	3	2069	3	KED
	Y	**89**		ug/L			38706	139700	1	Standard
	Kr	**83**		ug/L			31	55	3	Standard
⌈>	**In-1**	**115**		ug/L			6431	6514	2	KED
|	**Cd**	**111**	**0.032**	ug/L	0.007	22	3	10	13	KED
⌊	**Cd**	**114**	**0.043**	ug/L	0.012	28	0	26	28	KED
⌈>	**In**	**115**		ug/L			415168	444508	1	Standard
⌊	**Ag**	**107**	**0.042**	ug/L	0.001	2	37	654	2	Standard
⌈>	**Tb**	**159**		ug/L			170846	195982	1	Standard
⌊	**Pb**	**208**	**28.410**	ug/L	0.566	1	364	2689074	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:34:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	43330	4	Standard
⌈>	Sc	45		ug/L			489773	543847	1	Standard
|	Cr	52	14.647	ug/L	0.188	1	8505	225535	2	Standard
⌊	Cr	53	14.718	ug/L	0.010	0	60	25116	1	Standard
⌈>	Ge	72		ug/L			31037	30556	0	KED
|	Cu	63	14.442	ug/L	0.034	0	42	58689	0	KED
|	Cu	65	14.013	ug/L	0.412	2	15	28913	2	KED
|	Zn	66	41.095	ug/L	0.502	1	22	20756	1	KED
|	Zn	67	40.225	ug/L	0.124	0	4	3313	0	KED
⌊	As	75	2.709	ug/L	0.046	1	3	669	1	KED
	Y	89		ug/L			38706	151607	1	Standard
	Kr	83		ug/L			31	50	19	Standard
⌈>	In-1	115		ug/L			6431	6526	3	KED
|	Cd	111	0.069	ug/L	0.014	20	3	19	15	KED
⌊	Cd	114	0.034	ug/L	0.006	16	0	21	19	KED
⌈>	In	115		ug/L			415168	430357	1	Standard
⌊	Ag	107	0.046	ug/L	0.005	11	37	678	8	Standard
⌈>	Tb	159		ug/L			170846	196157	0	Standard
⌊	Pb	208	8.682	ug/L	0.035	0	364	822876	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:38:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	39815	5	Standard
⌈>	Sc	45		ug/L			489773	532303	1	Standard
|	Cr	52	12.534	ug/L	0.232	1	8505	190251	2	Standard
⌊	Cr	53	12.561	ug/L	0.168	1	60	20988	1	Standard
⌈>	Ge	72		ug/L			31037	30796	1	KED
|	Cu	63	14.010	ug/L	0.306	2	42	57374	1	KED
|	Cu	65	13.817	ug/L	0.060	0	15	28734	0	KED
|	Zn	66	45.726	ug/L	0.267	0	22	23273	1	KED
|	Zn	67	44.094	ug/L	1.961	4	4	3659	3	KED
⌊	As	75	3.287	ug/L	0.027	0	3	818	0	KED
	Y	89		ug/L			38706	134234	3	Standard
	Kr	83		ug/L			31	50	15	Standard
⌈>	In-1	115		ug/L			6431	6444	1	KED
|	Cd	111	0.048	ug/L	0.004	9	3	14	6	KED
⌊	Cd	114	0.053	ug/L	0.005	9	0	32	9	KED
⌈>	In	115		ug/L			415168	439159	1	Standard
⌊	Ag	107	0.041	ug/L	0.002	5	37	619	4	Standard
⌈>	Tb	159		ug/L			170846	196027	0	Standard
⌊	Pb	208	19.957	ug/L	0.049	0	364	1889730	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:43:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	50409	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	544792	1	Standard
|	**Cr**	**52**	**7.985**	ug/L	0.015	0	8505	127459	1	Standard
⌊	**Cr**	**53**	**8.110**	ug/L	0.084	1	60	13892	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30737	1	KED
|	**Cu**	**63**	**15.977**	ug/L	0.152	0	42	65303	0	KED
|	**Cu**	**65**	**16.043**	ug/L	0.241	1	15	33296	0	KED
|	**Zn**	**66**	**16.443**	ug/L	0.313	1	22	8366	0	KED
|	**Zn**	**67**	**16.934**	ug/L	0.147	0	4	1405	1	KED
⌊	**As**	**75**	**3.950**	ug/L	0.069	1	3	980	0	KED
	Y	**89**		ug/L			38706	126181	1	Standard
	Kr	**83**		ug/L			31	52	5	Standard
⌈>	**In-1**	**115**		ug/L			6431	6406	2	KED
|	**Cd**	**111**	**0.022**	ug/L	0.018	80	3	8	48	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.003	15	0	13	15	KED
⌈>	**In**	**115**		ug/L			415168	442957	1	Standard
⌊	**Ag**	**107**	**0.047**	ug/L	0.000	0	37	723	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	195223	1	Standard
⌊	**Pb**	**208**	**4.130**	ug/L	0.011	0	364	389818	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:47:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	37159	5	Standard
⌈>	Sc	45		ug/L			489773	548709	2	Standard
|	Cr	52	15.393	ug/L	0.345	2	8505	238573	0	Standard
⌊	Cr	53	15.508	ug/L	0.188	1	60	26691	1	Standard
⌈>	Ge	72		ug/L			31037	30172	1	KED
|	Cu	63	48.799	ug/L	0.476	0	42	195698	0	KED
|	Cu	65	48.099	ug/L	0.245	0	15	97965	1	KED
|	Zn	66	140.370	ug/L	0.622	0	22	69950	1	KED
|	Zn	67	133.546	ug/L	3.576	2	4	10852	3	KED
⌊	As	75	15.238	ug/L	0.247	1	3	3703	0	KED
	Y	89		ug/L			38706	186543	3	Standard
	Kr	83		ug/L			31	55	5	Standard
⌈>	In-1	115		ug/L			6431	6548	1	KED
|	Cd	111	0.120	ug/L	0.036	30	3	31	27	KED
⌊	Cd	114	0.071	ug/L	0.012	16	0	43	16	KED
⌈>	In	115		ug/L			415168	438647	1	Standard
⌊	Ag	107	0.043	ug/L	0.002	5	37	652	6	Standard
⌈>	Tb	159		ug/L			170846	199150	1	Standard
⌊	Pb	208	28.845	ug/L	0.420	1	364	2774307	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:51:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	43064	3	Standard
⌈>	Sc	45		ug/L			489773	558439	1	Standard
|	Cr	52	44.150	ug/L	0.302	0	8505	678482	0	Standard
⌊	Cr	53	43.988	ug/L	0.585	1	60	76948	2	Standard
⌈>	Ge	72		ug/L			31037	30590	0	KED
|	Cu	63	595.340	ug/L	7.490	1	42	2420198	1	KED
|	Cu	65	551.170	ug/L	3.704	0	15	1137954	0	KED
|	Zn	66	207.307	ug/L	3.398	1	22	104721	1	KED
|	Zn	67	197.681	ug/L	3.122	1	4	16283	1	KED
⌊	As	75	8.626	ug/L	0.068	0	3	2127	1	KED
	Y	89		ug/L			38706	220432	1	Standard
	Kr	83		ug/L			31	66	9	Standard
⌈>	In-1	115		ug/L			6431	6200	1	KED
|	Cd	111	0.300	ug/L	0.036	12	3	70	10	KED
⌊	Cd	114	0.328	ug/L	0.046	14	0	188	15	KED
⌈>	In	115		ug/L			415168	414710	1	Standard
⌊	Ag	107	0.141	ug/L	0.008	5	37	1944	7	Standard
⌈>	Tb	159		ug/L			170846	198068	1	Standard
⌊	Pb	208	104.657	ug/L	2.616	2	364	10008661	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 00:56:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31692	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	462144	1	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.008	38	8505	8304	2	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.003	82	60	52	6	Standard
⌈>	**Ge**	**72**		ug/L			31037	30135	0	KED
|	**Cu**	**63**	**0.053**	ug/L	0.005	9	42	253	7	KED
|	**Cu**	**65**	**0.060**	ug/L	0.004	7	15	137	6	KED
|	**Zn**	**66**	**0.032**	ug/L	0.016	49	22	38	20	KED
|	**Zn**	**67**	**0.025**	ug/L	0.076	300	4	6	96	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	185	3	3	14	KED
	Y	**89**		ug/L			38706	38668	3	Standard
	Kr	**83**		ug/L			31	33	37	Standard
⌈>	**In-1**	**115**		ug/L			6431	6204	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	29	3	1	43	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	38	0	2	32	KED
⌈>	**In**	**115**		ug/L			415168	416951	4	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	21	37	13	34	Standard
⌈>	**Tb**	**159**		ug/L			170846	171074	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	20	364	461	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:00:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28687	6	Standard
⌈>	**Sc**	**45**		ug/L			489773	479894	2	Standard
|	**Cr**	**52**	**48.044**	ug/L	0.832	1	8505	633573	1	Standard
⌊	**Cr**	**53**	**48.145**	ug/L	0.311	0	60	72354	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	30420	1	KED
|	**Cu**	**63**	**50.248**	ug/L	1.371	2	42	203123	1	KED
|	**Cu**	**65**	**49.783**	ug/L	0.973	1	15	102219	1	KED
|	**Zn**	**66**	**50.436**	ug/L	1.595	3	22	25347	2	KED
|	**Zn**	**67**	**52.050**	ug/L	1.297	2	4	4266	0	KED
⌊	**As**	**75**	**49.192**	ug/L	0.767	1	3	12048	0	KED
	Y	**89**		ug/L			38706	39850	1	Standard
	Kr	**83**		ug/L			31	45	7	Standard
⌈>	**In-1**	**115**		ug/L			6431	6340	1	KED
|	**Cd**	**111**	**48.689**	ug/L	0.297	0	3	11168	1	KED
⌊	**Cd**	**114**	**49.469**	ug/L	1.021	2	0	28938	0	KED
⌈>	**In**	**115**		ug/L			415168	415978	1	Standard
⌊	**Ag**	**107**	**48.907**	ug/L	0.542	1	37	662378	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	177816	0	Standard
⌊	**Pb**	**208**	**49.451**	ug/L	0.721	1	364	4246608	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:07:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27566	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	475006	1	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.008	216	8505	8199	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	92	60	46	26	Standard
⌈>	**Ge**	**72**		ug/L			31037	29889	0	KED
|	**Cu**	**63**	**0.014**	ug/L	0.007	50	42	95	28	KED
|	**Cu**	**65**	**0.019**	ug/L	0.004	21	15	53	15	KED
|	**Zn**	**66**	**0.013**	ug/L	0.017	125	22	28	29	KED
|	**Zn**	**67**	**0.010**	ug/L	0.037	360	4	5	57	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	1348	3	3	48	KED
	Y	**89**		ug/L			38706	38925	1	Standard
	Kr	**83**		ug/L			31	48	8	Standard
⌈>	**In-1**	**115**		ug/L			6431	6244	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	161	3	4	49	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	185	0	1	102	KED
⌈>	**In**	**115**		ug/L			415168	430066	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	220	37	32	45	Standard
⌈>	**Tb**	**159**		ug/L			170846	168062	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	17	364	328	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-04RE1
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:12:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30551	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	472324	2	Standard
|	**Cr**	**52**	**1.000**	ug/L	0.022	2	8505	21019	2	Standard
⌊	**Cr**	**53**	**1.004**	ug/L	0.006	0	60	1541	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30398	2	KED
|	**Cu**	**63**	**28.936**	ug/L	0.761	2	42	116874	0	KED
|	**Cu**	**65**	**29.260**	ug/L	0.186	0	15	60048	3	KED
|	**Zn**	**66**	**87.620**	ug/L	1.525	1	22	43982	1	KED
|	**Zn**	**67**	**83.917**	ug/L	1.102	1	4	6870	1	KED
⌊	**As**	**75**	**11.907**	ug/L	0.373	3	3	2915	1	KED
	Y	**89**		ug/L			38706	41079	3	Standard
	Kr	**83**		ug/L			31	46	31	Standard
⌈>	**In-1**	**115**		ug/L			6431	6427	0	KED
|	**Cd**	**111**	**0.057**	ug/L	0.014	23	3	16	18	KED
⌊	**Cd**	**114**	**0.069**	ug/L	0.014	20	0	41	20	KED
⌈>	**In**	**115**		ug/L			415168	427647	2	Standard
⌊	**Ag**	**107**	**0.017**	ug/L	0.002	9	37	274	10	Standard
⌈>	**Tb**	**159**		ug/L			170846	174643	0	Standard
⌊	**Pb**	**208**	**11.481**	ug/L	0.110	0	364	968692	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-DUP3
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:16:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30898	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	488984	1	Standard
|	**Cr**	**52**	**0.958**	ug/L	0.014	1	8505	21205	2	Standard
⌊	**Cr**	**53**	**0.982**	ug/L	0.028	2	60	1564	3	Standard
⌈>	**Ge**	**72**		ug/L			31037	31407	0	KED
|	**Cu**	**63**	**31.207**	ug/L	0.191	0	42	130300	1	KED
|	**Cu**	**65**	**30.125**	ug/L	0.377	1	15	63877	1	KED
|	**Zn**	**66**	**86.830**	ug/L	0.595	0	22	45047	0	KED
|	**Zn**	**67**	**84.346**	ug/L	1.688	2	4	7135	1	KED
⌊	**As**	**75**	**11.642**	ug/L	0.015	0	3	2946	0	KED
	Y	**89**		ug/L			38706	43238	2	Standard
	Kr	**83**		ug/L			31	40	2	Standard
⌈>	**In-1**	**115**		ug/L			6431	6515	3	KED
|	**Cd**	**111**	**0.052**	ug/L	0.019	36	3	15	30	KED
⌊	**Cd**	**114**	**0.078**	ug/L	0.002	2	0	47	1	KED
⌈>	**In**	**115**		ug/L			415168	444475	1	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.002	10	37	276	7	Standard
⌈>	**Tb**	**159**		ug/L			170846	175642	1	Standard
⌊	**Pb**	**208**	**11.306**	ug/L	0.135	1	364	959316	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MS3
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:20:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			28285	30807	4	Standard
⌈>	Sc		45		ug/L			489773	490648	1	Standard
|	Cr		52	1.258	ug/L	0.023	1	8505	25260	2	Standard
⌊	Cr		53	1.264	ug/L	0.044	3	60	2001	3	Standard
⌈>	Ge		72		ug/L			31037	31055	2	KED
|	Cu	STL	63	33.693	ug/L	0.891	2	42	139054	2	KED
|	Cu		65	33.044	ug/L	0.837	2	15	69247	0	KED
|	Zn	STL	66	94.281	ug/L	1.711	1	22	48349	0	KED
|	Zn		67	86.973	ug/L	1.658	1	4	7273	0	KED
⌊	As		75	12.936	ug/L	0.137	1	3	3237	2	KED
	Y		89		ug/L			38706	42287	1	Standard
	Kr		83		ug/L			31	35	18	Standard
⌈>	In-1		115		ug/L			6431	6456	2	KED
|	Cd		111	0.280	ug/L	0.068	24	3	68	24	KED
⌊	Cd		114	0.306	ug/L	0.047	15	0	182	13	KED
⌈>	In		115		ug/L			415168	450507	2	Standard
⌊	Ag		107	0.101	ug/L	0.002	2	37	1523	3	Standard
⌈>	Tb		159		ug/L			170846	179202	1	Standard
⌊	Pb		208	11.787	ug/L	0.139	1	364	1020315	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MSD3
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:25:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			28285	30391	3	Standard
>	Sc		45		ug/L			489773	486050	0	Standard
	Cr		52	1.289	ug/L	0.016	1	8505	25435	0	Standard
	Cr		53	1.272	ug/L	0.034	2	60	1995	2	Standard
>	Ge		72		ug/L			31037	30597	0	KED
	Cu	STL	63	31.232	ug/L	0.304	0	42	127032	0	KED
	Cu		65	30.820	ug/L	0.571	1	15	63657	1	KED
	Zn	STL	66	95.342	ug/L	2.089	2	22	48183	1	KED
	Zn		67	92.251	ug/L	0.612	0	4	7603	0	KED
	As		75	14.360	ug/L	0.327	2	3	3539	1	KED
	Y		89		ug/L			38706	43671	3	Standard
	Kr		83		ug/L			31	26	14	Standard
>	In-1		115		ug/L			6431	6440	1	KED
	Cd		111	0.295	ug/L	0.047	15	3	71	14	KED
	Cd		114	0.338	ug/L	0.041	12	0	201	11	KED
>	In		115		ug/L			415168	449398	1	Standard
	Ag		107	0.102	ug/L	0.001	1	37	1530	2	Standard
>	Tb		159		ug/L			170846	179486	1	Standard
	Pb		208	12.545	ug/L	0.158	1	364	1087663	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-04
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:29:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	30631	5	Standard
⌈>	Sc	45		ug/L			489773	493335	3	Standard
|	Cr	52	9.547	ug/L	0.169	1	8505	136286	1	Standard
⌊	Cr	53	9.509	ug/L	0.285	2	60	14734	2	Standard
⌈>	Ge	72		ug/L			31037	31482	0	KED
|	Cu	63	281.221	ug/L	1.937	0	42	1176615	0	KED
|	Cu	65	277.319	ug/L	2.161	0	15	589274	0	KED
|	Zn	66	852.097	ug/L	9.023	1	22	442931	1	KED
|	Zn	67	803.366	ug/L	16.409	2	4	68094	2	KED
⌊	As	75	115.076	ug/L	0.981	0	3	29167	0	KED
	Y	89		ug/L			38706	61146	0	Standard
	Kr	83		ug/L			31	47	8	Standard
⌈>	In-1	115		ug/L			6431	7352	1	KED
|	Cd	111	0.508	ug/L	0.035	6	3	138	5	KED
⌊	Cd	114	0.493	ug/L	0.037	7	0	334	6	KED
⌈>	In	115		ug/L			415168	503740	1	Standard
⌊	Ag	107	0.156	ug/L	0.005	3	37	2600	2	Standard
⌈>	Tb	159		ug/L			170846	182208	1	Standard
⌊	Pb	208	115.229	ug/L	1.114	0	364	10140173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-DUP2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:34:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30139	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	482233	0	Standard
|	**Cr**	**52**	**9.224**	ug/L	0.039	0	8505	129036	0	Standard
⌊	**Cr**	**53**	**9.294**	ug/L	0.107	1	60	14085	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	31019	0	KED
|	**Cu**	**63**	**296.799**	ug/L	8.170	2	42	1223536	2	KED
|	**Cu**	**65**	**290.840**	ug/L	4.591	1	15	608916	1	KED
|	**Zn**	**66**	**837.327**	ug/L	7.595	0	22	428850	0	KED
|	**Zn**	**67**	**797.723**	ug/L	16.671	2	4	66622	2	KED
⌊	**As**	**75**	**113.575**	ug/L	1.088	0	3	28363	0	KED
	Y	**89**		ug/L			38706	62481	1	Standard
	Kr	**83**		ug/L			31	47	6	Standard
⌈>	**In-1**	**115**		ug/L			6431	7466	2	KED
|	**Cd**	**111**	**0.597**	ug/L	0.075	12	3	164	11	KED
⌊	**Cd**	**114**	**0.556**	ug/L	0.063	11	0	384	12	KED
⌈>	**In**	**115**		ug/L			415168	489865	2	Standard
⌊	**Ag**	**107**	**0.164**	ug/L	0.005	3	37	2658	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	177530	2	Standard
⌊	**Pb**	**208**	**114.260**	ug/L	2.317	2	364	9793943	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MS2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:38:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	29199	3	Standard
>	Sc	45		ug/L			489773	481935	1	Standard
	Cr	52	12.086	ug/L	0.171	1	8505	166389	2	Standard
	Cr	53	12.337	ug/L	0.230	1	60	18663	1	Standard
>	Ge	72		ug/L			31037	30385	2	KED
	Cu	63	324.911	ug/L	8.767	2	42	1311520	1	KED
	Cu	65	320.907	ug/L	4.283	1	15	657992	1	KED
	Zn	66	913.322	ug/L	20.769	2	22	458051	0	KED
	Zn	67	843.494	ug/L	16.438	1	4	68983	0	KED
	As STL	75	126.687	ug/L	2.649	2	3	30981	0	KED
	Y	89		ug/L			38706	60811	5	Standard
	Kr	83		ug/L			31	49	7	Standard
>	In-1	115		ug/L			6431	7279	1	KED
	Cd	111	2.577	ug/L	0.147	5	3	681	4	KED
	Cd	114	2.545	ug/L	0.104	4	0	1709	2	KED
>	In	115		ug/L			415168	491629	0	Standard
	Ag	107	0.914	ug/L	0.033	3	37	14672	3	Standard
>	Tb	159		ug/L			170846	175848	2	Standard
	Pb STL	208	123.651	ug/L	2.529	2	364	10499446	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MSD2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:43:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	29253	2	Standard
>	Sc	45		ug/L			489773	478491	1	Standard
	Cr	52	12.000	ug/L	0.155	1	8505	164058	1	Standard
	Cr	53	12.342	ug/L	0.018	0	60	18540	1	Standard
>	Ge	72		ug/L			31037	29516	1	KED
	Cu	63	298.398	ug/L	6.261	2	42	1170402	1	KED
	Cu	65	299.647	ug/L	9.493	3	15	596840	2	KED
	Zn	66	934.941	ug/L	10.807	1	22	455607	0	KED
	Zn	67	876.581	ug/L	20.255	2	4	69647	1	KED
	As STL	75	139.598	ug/L	2.184	1	3	33169	0	KED
	Y	89		ug/L			38706	61352	0	Standard
	Kr	83		ug/L			31	49	0	Standard
>	In-1	115		ug/L			6431	7369	0	KED
	Cd	111	2.591	ug/L	0.172	6	3	694	6	KED
	Cd	114	2.626	ug/L	0.197	7	0	1786	8	KED
>	In	115		ug/L			415168	485755	2	Standard
	Ag	107	0.915	ug/L	0.014	1	37	14513	1	Standard
>	Tb	159		ug/L			170846	177756	1	Standard
	Pb STL	208	127.749	ug/L	2.128	1	364	10965682	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-PS2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:49:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30713	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	480926	2	Standard
|	**Cr**	**52**	**33.128**	ug/L	0.619	1	8505	440421	1	Standard
⌊	**Cr**	**53**	**33.458**	ug/L	0.662	1	60	50398	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	29561	0	KED
|	**Cu**	**63**	**308.592**	ug/L	4.739	1	42	1212252	0	KED
|	**Cu**	**65**	**304.340**	ug/L	5.202	1	15	607177	0	KED
|	**Zn**	**66**	**946.721**	ug/L	8.030	0	22	462068	0	KED
|	**Zn**	**67**	**878.577**	ug/L	8.175	0	4	69928	1	KED
⌊	**As**	**75**	**140.870**	ug/L	1.866	1	3	33524	0	KED
	Y	**89**		ug/L			38706	65298	1	Standard
	Kr	**83**		ug/L			31	56	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6960	1	KED
|	**Cd**	**111**	**22.267**	ug/L	0.592	2	3	5608	2	KED
⌊	**Cd**	**114**	**22.783**	ug/L	0.148	0	0	14632	0	KED
⌈>	**In**	**115**		ug/L			415168	488552	0	Standard
⌊	**Ag**	**107**	**22.205**	ug/L	0.197	0	37	353249	0	Standard
⌈>	**Tb**	**159**		ug/L			170846	174800	0	Standard
⌊	**Pb**	**208**	**146.960**	ug/L	0.816	0	364	12406204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:54:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	29657	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	453739	1	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.008	251	8505	7919	1	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.002	16	60	39	6	Standard
⌈>	**Ge**	**72**		ug/L			31037	28655	1	KED
|	**Cu**	**63**	**0.053**	ug/L	0.003	5	42	242	5	KED
|	**Cu**	**65**	**0.049**	ug/L	0.002	4	15	109	2	KED
|	**Zn**	**66**	**0.043**	ug/L	0.013	29	22	41	14	KED
|	**Zn**	**67**	**0.013**	ug/L	0.029	227	4	5	43	KED
⌊	**As**	**75**	**0.018**	ug/L	0.009	50	3	7	29	KED
	Y	**89**		ug/L			38706	39024	2	Standard
	Kr	**83**		ug/L			31	44	19	Standard
⌈>	**In-1**	**115**		ug/L			6431	6089	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	222	3	2	43	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.015	166	0	5	151	KED
⌈>	**In**	**115**		ug/L			415168	420505	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	261	37	40	17	Standard
⌈>	**Tb**	**159**		ug/L			170846	168070	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	11	364	556	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:58:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28472	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	474949	1	Standard
|	**Cr**	**52**	**47.965**	ug/L	0.470	0	8505	626152	1	Standard
⌊	**Cr**	**53**	**47.875**	ug/L	0.742	1	60	71220	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	29215	0	KED
|	**Cu**	**63**	**50.335**	ug/L	0.996	1	42	195466	1	KED
|	**Cu**	**65**	**50.159**	ug/L	1.239	2	15	98918	2	KED
|	**Zn**	**66**	**49.688**	ug/L	0.599	1	22	23989	1	KED
|	**Zn**	**67**	**50.926**	ug/L	2.453	4	4	4010	5	KED
⌊	**As**	**75**	**50.121**	ug/L	0.499	0	3	11791	0	KED
	Y	**89**		ug/L			38706	40881	2	Standard
	Kr	**83**		ug/L			31	43	18	Standard
⌈>	**In-1**	**115**		ug/L			6431	6076	4	KED
|	**Cd**	**111**	**49.124**	ug/L	0.705	1	3	10793	3	KED
⌊	**Cd**	**114**	**49.453**	ug/L	1.521	3	0	27702	1	KED
⌈>	**In**	**115**		ug/L			415168	418925	2	Standard
⌊	**Ag**	**107**	**49.536**	ug/L	1.188	2	37	675500	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	174901	0	Standard
⌊	**Pb**	**208**	**50.663**	ug/L	0.504	0	364	4279485	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 02:05:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	26731	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	453624	3	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.017	125	8505	8044	1	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.005	261	60	59	11	Standard
⌈>	**Ge**	**72**		ug/L			31037	29444	1	KED
|	**Cu**	**63**	**0.032**	ug/L	0.005	15	42	165	12	KED
|	**Cu**	**65**	**0.029**	ug/L	0.003	11	15	71	9	KED
|	**Zn**	**66**	**0.025**	ug/L	0.016	65	22	33	23	KED
|	**Zn**	**67**	**-0.021**	ug/L	0.036	168	4	2	114	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	330	3	2	36	KED
	Y	**89**		ug/L			38706	38946	2	Standard
	Kr	**83**		ug/L			31	37	32	Standard
⌈>	**In-1**	**115**		ug/L			6431	6118	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	303	3	2	57	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	39	0	2	34	KED
⌈>	**In**	**115**		ug/L			415168	413830	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	422	37	39	21	Standard
⌈>	**Tb**	**159**		ug/L			170846	164294	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	30	364	455	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-03RE1
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 02:09:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30624	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	487192	2	Standard
|	**Cr**	**52**	**3.273**	ug/L	0.129	3	8505	51694	1	Standard
⌊	**Cr**	**53**	**3.350**	ug/L	0.083	2	60	5165	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	29906	1	KED
|	**Cu**	**63**	**13.945**	ug/L	0.345	2	42	55451	1	KED
|	**Cu**	**65**	**13.640**	ug/L	0.160	1	15	27545	0	KED
|	**Zn**	**66**	**18.522**	ug/L	0.095	0	22	9167	0	KED
|	**Zn**	**67**	**17.125**	ug/L	0.234	1	4	1382	0	KED
⌊	**As**	**75**	**1.939**	ug/L	0.093	4	3	470	5	KED
	Y	**89**		ug/L			38706	51426	1	Standard
	Kr	**83**		ug/L			31	39	7	Standard
⌈>	**In-1**	**115**		ug/L			6431	6213	2	KED
|	**Cd**	**111**	**1.349**	ug/L	0.021	1	3	306	3	KED
⌊	**Cd**	**114**	**1.338**	ug/L	0.052	3	0	767	4	KED
⌈>	**In**	**115**		ug/L			415168	433493	2	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.001	7	37	228	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	176763	1	Standard
⌊	**Pb**	**208**	**78.292**	ug/L	0.952	1	364	6682947	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-07RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:14:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	35262	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	498833	2	Standard
|	**Cr**	**52**	**6.919**	ug/L	0.161	2	8505	102262	1	Standard
⌊	**Cr**	**53**	**7.160**	ug/L	0.284	3	60	11232	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	29425	2	KED
|	**Cu**	**63**	**21.746**	ug/L	0.149	0	42	85074	2	KED
|	**Cu**	**65**	**21.605**	ug/L	0.331	1	15	42917	2	KED
|	**Zn**	**66**	**78.657**	ug/L	1.499	1	22	38225	0	KED
|	**Zn**	**67**	**75.072**	ug/L	3.238	4	4	5947	1	KED
⌊	**As**	**75**	**2.013**	ug/L	0.032	1	3	479	1	KED
	Y	**89**		ug/L			38706	110324	2	Standard
	Kr	**83**		ug/L			31	43	5	Standard
⌈>	**In-1**	**115**		ug/L			6431	6245	0	KED
|	**Cd**	**111**	**0.158**	ug/L	0.056	35	3	38	31	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.003	1	0	122	2	KED
⌈>	**In**	**115**		ug/L			415168	417940	1	Standard
⌊	**Ag**	**107**	**0.054**	ug/L	0.002	3	37	767	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	184577	1	Standard
⌊	**Pb**	**208**	**10.989**	ug/L	0.080	0	364	979909	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-08RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:18:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31596	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	517960	2	Standard
|	**Cr**	**52**	**8.543**	ug/L	0.115	1	8505	129008	2	Standard
⌊	**Cr**	**53**	**8.743**	ug/L	0.132	1	60	14233	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	29166	1	KED
|	**Cu**	**63**	**65.938**	ug/L	0.910	1	42	255577	0	KED
|	**Cu**	**65**	**66.039**	ug/L	2.091	3	15	129965	1	KED
|	**Zn**	**66**	**30.904**	ug/L	1.722	5	22	14892	3	KED
|	**Zn**	**67**	**29.801**	ug/L	1.213	4	4	2343	2	KED
⌊	**As**	**75**	**0.908**	ug/L	0.052	5	3	216	3	KED
	Y	**89**		ug/L			38706	155291	2	Standard
	Kr	**83**		ug/L			31	84	7	Standard
⌈>	**In-1**	**115**		ug/L			6431	5942	1	KED
|	**Cd**	**111**	**0.044**	ug/L	0.019	43	3	12	33	KED
⌊	**Cd**	**114**	**0.065**	ug/L	0.016	24	0	35	23	KED
⌈>	**In**	**115**		ug/L			415168	407971	1	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.006	11	37	695	10	Standard
⌈>	**Tb**	**159**		ug/L			170846	188018	3	Standard
⌊	**Pb**	**208**	**5.214**	ug/L	0.135	2	364	473576	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:22:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	32188	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	514224	0	Standard
|	**Cr**	**52**	**8.460**	ug/L	0.137	1	8505	126940	1	Standard
⌊	**Cr**	**53**	**8.562**	ug/L	0.143	1	60	13842	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	28889	0	KED
|	**Cu**	**63**	**67.265**	ug/L	0.792	1	42	258273	0	KED
|	**Cu**	**65**	**68.236**	ug/L	0.153	0	15	133063	0	KED
|	**Zn**	**66**	**31.600**	ug/L	0.647	2	22	15092	1	KED
|	**Zn**	**67**	**30.536**	ug/L	1.112	3	4	2379	3	KED
⌊	**As**	**75**	**1.361**	ug/L	0.052	3	3	319	3	KED
	Y	**89**		ug/L			38706	163418	3	Standard
	Kr	**83**		ug/L			31	85	25	Standard
⌈>	**In-1**	**115**		ug/L			6431	5786	1	KED
|	**Cd**	**111**	**0.070**	ug/L	0.027	38	3	17	33	KED
⌊	**Cd**	**114**	**0.068**	ug/L	0.017	25	0	36	26	KED
⌈>	**In**	**115**		ug/L			415168	413285	2	Standard
⌊	**Ag**	**107**	**0.063**	ug/L	0.006	9	37	889	6	Standard
⌈>	**Tb**	**159**		ug/L			170846	188901	1	Standard
⌊	**Pb**	**208**	**6.697**	ug/L	0.064	0	364	611329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:27:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31313	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	510684	2	Standard
|	**Cr**	**52**	**18.655**	ug/L	0.323	1	8505	267255	1	Standard
⌊	**Cr**	**53**	**18.746**	ug/L	0.348	1	60	30022	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	28790	1	KED
|	**Cu**	**63**	**76.495**	ug/L	0.327	0	42	292713	1	KED
|	**Cu**	**65**	**76.368**	ug/L	0.858	1	15	148397	0	KED
|	**Zn**	**66**	**60.624**	ug/L	0.247	0	22	28838	1	KED
|	**Zn**	**67**	**56.389**	ug/L	2.283	4	4	4375	4	KED
⌊	**As**	**75**	**9.360**	ug/L	0.068	0	3	2172	0	KED
	Y	**89**		ug/L			38706	166225	3	Standard
	Kr	**83**		ug/L			31	65	24	Standard
⌈>	**In-1**	**115**		ug/L			6431	5934	1	KED
|	**Cd**	**111**	**10.090**	ug/L	0.243	2	3	2168	2	KED
⌊	**Cd**	**114**	**10.347**	ug/L	0.182	1	0	5666	1	KED
⌈>	**In**	**115**		ug/L			415168	407600	1	Standard
⌊	**Ag**	**107**	**9.938**	ug/L	0.212	2	37	131911	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	186852	1	Standard
⌊	**Pb**	**208**	**13.748**	ug/L	0.170	1	364	1240887	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:31:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31044	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	518699	1	Standard
|	**Cr**	**52**	**17.572**	ug/L	0.147	0	8505	256239	1	Standard
⌊	**Cr**	**53**	**17.644**	ug/L	0.164	0	60	28701	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	29185	0	KED
|	**Cu**	**63**	**69.683**	ug/L	0.325	0	42	270307	0	KED
|	**Cu**	**65**	**68.472**	ug/L	1.336	1	15	134892	2	KED
|	**Zn**	**66**	**64.007**	ug/L	1.086	1	22	30862	1	KED
|	**Zn**	**67**	**63.315**	ug/L	1.110	1	4	4978	1	KED
⌊	**As**	**75**	**8.715**	ug/L	0.136	1	3	2050	1	KED
	Y	**89**		ug/L			38706	175850	1	Standard
	Kr	**83**		ug/L			31	71	8	Standard
⌈>	**In-1**	**115**		ug/L			6431	6045	1	KED
|	**Cd**	**111**	**10.400**	ug/L	0.308	2	3	2276	1	KED
⌊	**Cd**	**114**	**10.110**	ug/L	0.094	0	0	5640	2	KED
⌈>	**In**	**115**		ug/L			415168	412014	1	Standard
⌊	**Ag**	**107**	**9.935**	ug/L	0.244	2	37	133316	2	Standard
⌈>	**Tb**	**159**		ug/L			170846	191323	0	Standard
⌊	**Pb**	**208**	**14.236**	ug/L	0.104	0	364	1315763	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 02:36:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30359	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	453998	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.007	104	8505	7970	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.007	105	60	46	21	Standard
⌈>	**Ge**	**72**		ug/L			31037	28893	1	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	12	42	100	8	KED
|	**Cu**	**65**	**0.013**	ug/L	0.004	30	15	40	17	KED
|	**Zn**	**66**	**0.014**	ug/L	0.009	66	22	27	14	KED
|	**Zn**	**67**	**0.037**	ug/L	0.077	206	4	6	83	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.006	96	3	1	100	KED
	Y	**89**		ug/L			38706	38306	2	Standard
	Kr	**83**		ug/L			31	40	33	Standard
⌈>	**In-1**	**115**		ug/L			6431	5811	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	193	3	2	21	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	309	0	1	188	KED
⌈>	**In**	**115**		ug/L			415168	413827	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	151	37	29	43	Standard
⌈>	**Tb**	**159**		ug/L			170846	166016	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	68	364	330	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-02
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 02:40:32

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	45434	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	482968	3	Standard
|	**Cr**	**52**	**2.353**	ug/L	0.019	0	8505	39210	2	Standard
⌊	**Cr**	**53**	**2.336**	ug/L	0.038	1	60	3590	3	Standard
⌈>	**Ge**	**72**		ug/L			31037	29490	1	KED
|	**Cu**	**63**	**7.628**	ug/L	0.205	2	42	29929	1	KED
|	**Cu**	**65**	**7.670**	ug/L	0.201	2	15	15279	2	KED
|	**Zn**	**66**	**15.420**	ug/L	0.323	2	22	7528	0	KED
|	**Zn**	**67**	**15.652**	ug/L	0.735	4	4	1247	5	KED
⌊	**As**	**75**	**2.343**	ug/L	0.048	2	3	559	1	KED
	Y	**89**		ug/L			38706	70245	4	Standard
	Kr	**83**		ug/L			31	35	3	Standard
⌈>	**In-1**	**115**		ug/L			6431	6169	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.011	43	3	8	26	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.007	26	0	16	23	KED
⌈>	**In**	**115**		ug/L			415168	420907	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	37	505	5	Standard
⌈>	**Tb**	**159**		ug/L			170846	177257	1	Standard
⌊	**Pb**	**208**	**2.067**	ug/L	0.021	0	364	177307	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-03

Sample Dil Factor: 200

DEL

Comments:

Sample Date/Time: Friday, May 12, 2023 02:48:17

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	33604	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	487278	2	Standard
|	**Cr**	**52**	**2.160**	ug/L	0.027	1	8505	37006	1	Standard
⌊	**Cr**	**53**	**2.152**	ug/L	0.038	1	60	3341	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30046	1	KED
|	**Cu**	**63**	**8.181**	ug/L	0.073	0	42	32709	1	KED
|	**Cu**	**65**	**8.188**	ug/L	0.175	2	15	16622	3	KED
|	**Zn**	**66**	**14.978**	ug/L	0.559	3	22	7450	2	KED
|	**Zn**	**67**	**15.756**	ug/L	0.427	2	4	1278	2	KED
⌊	**As**	**75**	**1.829**	ug/L	0.095	5	3	445	6	KED
	Y	**89**		ug/L			38706	83285	1	Standard
	Kr	**83**		ug/L			31	36	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6234	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.008	48	3	6	24	KED
⌊	**Cd**	**114**	**0.021**	ug/L	0.012	57	0	12	54	KED
⌈>	**In**	**115**		ug/L			415168	418765	2	Standard
⌊	**Ag**	**107**	**0.023**	ug/L	0.001	3	37	356	0	Standard
⌈>	**Tb**	**159**		ug/L			170846	178718	0	Standard
⌊	**Pb**	**208**	**2.555**	ug/L	0.004	0	364	220947	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 02:56:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30836	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	469752	4	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.010	348	8505	8120	3	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.004	62	60	49	15	Standard
⌈>	**Ge**	**72**		ug/L			31037	29085	0	KED
|	**Cu**	**63**	**0.017**	ug/L	0.003	17	42	104	10	KED
|	**Cu**	**65**	**0.019**	ug/L	0.002	8	15	52	5	KED
|	**Zn**	**66**	**0.014**	ug/L	0.002	14	22	27	3	KED
|	**Zn**	**67**	**-0.021**	ug/L	0.014	68	4	2	43	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.003	42	3	1	57	KED
	Y	**89**		ug/L			38706	40136	2	Standard
	Kr	**83**		ug/L			31	29	24	Standard
⌈>	**In-1**	**115**		ug/L			6431	6211	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.012	1346	3	2	88	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	61	0	2	47	KED
⌈>	**In**	**115**		ug/L			415168	424538	4	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	9	37	17	11	Standard
⌈>	**Tb**	**159**		ug/L			170846	172024	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	19	364	267	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:00:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27412	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	472142	2	Standard
|	**Cr**	**52**	**48.525**	ug/L	0.359	0	8505	629678	2	Standard
⌊	**Cr**	**53**	**48.055**	ug/L	0.480	0	60	71053	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	29986	0	KED
|	**Cu**	**63**	**49.546**	ug/L	0.423	0	42	197473	0	KED
|	**Cu**	**65**	**49.314**	ug/L	0.707	1	15	99822	1	KED
|	**Zn**	**66**	**49.844**	ug/L	0.989	1	22	24698	1	KED
|	**Zn**	**67**	**50.845**	ug/L	1.890	3	4	4108	3	KED
⌊	**As**	**75**	**49.357**	ug/L	0.317	0	3	11917	0	KED
	Y	**89**		ug/L			38706	40632	1	Standard
	Kr	**83**		ug/L			31	43	11	Standard
⌈>	**In-1**	**115**		ug/L			6431	6181	2	KED
|	**Cd**	**111**	**48.743**	ug/L	1.451	2	3	10895	1	KED
⌊	**Cd**	**114**	**49.281**	ug/L	1.152	2	0	28100	0	KED
⌈>	**In**	**115**		ug/L			415168	420245	0	Standard
⌊	**Ag**	**107**	**48.692**	ug/L	0.848	1	37	666249	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	174791	1	Standard
⌊	**Pb**	**208**	**50.739**	ug/L	1.441	2	364	4282243	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:07:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27232	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	460997	2	Standard
|	**Cr**	**52**	**-0.015**	ug/L	0.013	86	8505	7820	2	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.003	56	60	48	8	Standard
⌈>	**Ge**	**72**		ug/L			31037	28836	1	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	138	42	53	37	KED
|	**Cu**	**65**	**0.005**	ug/L	0.005	102	15	23	37	KED
|	**Zn**	**66**	**0.056**	ug/L	0.019	33	22	47	17	KED
|	**Zn**	**67**	**0.004**	ug/L	0.015	360	4	4	24	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	88	3	1	50	KED
	Y	**89**		ug/L			38706	38610	2	Standard
	Kr	**83**		ug/L			31	39	48	Standard
⌈>	**In-1**	**115**		ug/L			6431	6029	4	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.011	312	3	2	107	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	370	0	1	205	KED
⌈>	**In**	**115**		ug/L			415168	414487	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	275	37	38	5	Standard
⌈>	**Tb**	**159**		ug/L			170846	165442	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	87	364	398	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:12:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26244	0	Standard
⌈>	**Sc**	**45**		ug/L				448237	0	Standard
|	**Cr**	**52**		ug/L				8038	0	Standard
⌊	**Cr**	**53**		ug/L				50	7	Standard
⌈>	**Ge**	**72**		ug/L				28647	1	KED
|	**Cu**	**63**		ug/L				51	22	KED
|	**Cu**	**65**		ug/L				25	22	KED
|	**Zn**	**66**		ug/L				36	18	KED
|	**Zn**	**67**		ug/L				6	15	KED
⌊	**As**	**75**		ug/L				2	21	KED
	Y	**89**		ug/L				38752	1	Standard
	Kr	**83**		ug/L				40	21	Standard
⌈>	**In-1**	**115**		ug/L				6124	1	KED
|	**Cd**	**111**		ug/L				4	48	KED
⌊	**Cd**	**114**		ug/L				3	51	KED
⌈>	**In**	**115**		ug/L				412702	0	Standard
⌊	**Ag**	**107**		ug/L				17	19	Standard
⌈>	**Tb**	**159**		ug/L				165777	0	Standard
⌊	**Pb**	**208**		ug/L				350	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:16:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27528	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	465302	1	Standard
|	**Cr**	**52**	**48.195**	ug/L	1.071	2	8038	616725	3	Standard
⌊	**Cr**	**53**	**48.451**	ug/L	1.053	2	50	70619	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	29088	1	KED
|	**Cu**	**63**	**49.523**	ug/L	0.747	1	51	191468	0	KED
|	**Cu**	**65**	**49.587**	ug/L	0.811	1	25	97364	0	KED
|	**Zn**	**66**	**50.764**	ug/L	1.787	3	36	24410	2	KED
|	**Zn**	**67**	**51.486**	ug/L	0.785	1	6	4038	0	KED
⌊	**As**	**75**	**49.815**	ug/L	0.738	1	2	11666	0	KED
	Y	**89**		ug/L			38752	39682	1	Standard
	Kr	**83**		ug/L			40	38	10	Standard
⌈>	**In-1**	**115**		ug/L			6124	5986	1	KED
|	**Cd**	**111**	**50.165**	ug/L	0.768	1	4	10864	0	KED
⌊	**Cd**	**114**	**50.376**	ug/L	0.553	1	3	27830	1	KED
⌈>	**In**	**115**		ug/L			412702	414779	3	Standard
⌊	**Ag**	**107**	**48.657**	ug/L	0.166	0	17	657183	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	173047	1	Standard
⌊	**Pb**	**208**	**51.251**	ug/L	0.610	1	350	4282878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:23:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27346	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	461077	0	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.006	22	8038	7967	1	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.003	107	50	47	11	Standard
⌈>	**Ge**	**72**		ug/L			28647	29348	3	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	94	51	45	18	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	131	25	33	27	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.009	130	36	34	9	KED
|	**Zn**	**67**	**-0.010**	ug/L	0.016	161	6	6	17	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	1211	2	2	44	KED
	Y	**89**		ug/L			38752	38899	0	Standard
	Kr	**83**		ug/L			40	36	32	Standard
⌈>	**In-1**	**115**		ug/L			6124	6057	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	242	4	3	41	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	104	3	1	101	KED
⌈>	**In**	**115**		ug/L			412702	421771	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	50	17	44	31	Standard
⌈>	**Tb**	**159**		ug/L			165777	166182	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	74	350	409	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-05
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 03:28:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	28967	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	473662	1	Standard
|	**Cr**	**52**	**6.951**	ug/L	0.009	0	8038	97812	1	Standard
⌊	**Cr**	**53**	**7.122**	ug/L	0.149	2	50	10613	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	29878	1	KED
|	**Cu**	**63**	**140.074**	ug/L	4.444	3	51	556090	2	KED
|	**Cu**	**65**	**137.686**	ug/L	3.184	2	25	277626	1	KED
|	**Zn**	**66**	**432.085**	ug/L	1.353	0	36	213184	1	KED
|	**Zn**	**67**	**396.702**	ug/L	8.330	2	6	31911	1	KED
⌊	**As**	**75**	**58.904**	ug/L	1.212	2	2	14168	1	KED
	Y	**89**		ug/L			38752	55902	2	Standard
	Kr	**83**		ug/L			40	50	26	Standard
⌈>	**In-1**	**115**		ug/L			6124	6550	1	KED
|	**Cd**	**111**	**0.239**	ug/L	0.038	15	4	60	13	KED
⌊	**Cd**	**114**	**0.272**	ug/L	0.015	5	3	168	6	KED
⌈>	**In**	**115**		ug/L			412702	459125	2	Standard
⌊	**Ag**	**107**	**0.090**	ug/L	0.003	3	17	1366	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	177424	1	Standard
⌊	**Pb**	**208**	**56.336**	ug/L	1.570	2	350	4826184	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-06
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 03:32:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	30367	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	479266	1	Standard
|	**Cr**	**52**	**3.211**	ug/L	0.045	1	8038	50334	0	Standard
⌊	**Cr**	**53**	**3.248**	ug/L	0.092	2	50	4923	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	30135	1	KED
|	**Cu**	**63**	**50.976**	ug/L	0.858	1	51	204186	1	KED
|	**Cu**	**65**	**49.940**	ug/L	0.275	0	25	101598	1	KED
|	**Zn**	**66**	**188.164**	ug/L	2.067	1	36	93651	0	KED
|	**Zn**	**67**	**176.994**	ug/L	2.872	1	6	14365	1	KED
⌊	**As**	**75**	**26.612**	ug/L	0.314	1	2	6457	0	KED
	Y	**89**		ug/L			38752	53142	2	Standard
	Kr	**83**		ug/L			40	43	19	Standard
⌈>	**In-1**	**115**		ug/L			6124	6312	2	KED
|	**Cd**	**111**	**0.085**	ug/L	0.040	46	4	23	38	KED
⌊	**Cd**	**114**	**0.093**	ug/L	0.015	16	3	58	17	KED
⌈>	**In**	**115**		ug/L			412702	435687	2	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.001	3	17	523	2	Standard
⌈>	**Tb**	**159**		ug/L			165777	175550	0	Standard
⌊	**Pb**	**208**	**25.843**	ug/L	0.460	1	350	2191176	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-08

Sample Dil Factor: 200

DEL

Comments:

Sample Date/Time: Friday, May 12, 2023 03:40:38

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	31181	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	478509	1	Standard
|	**Cr**	**52**	**1.220**	ug/L	0.043	3	8038	24407	0	Standard
⌊	**Cr**	**53**	**1.282**	ug/L	0.063	4	50	1973	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	30151	1	KED
|	**Cu**	**63**	**6.754**	ug/L	0.133	1	51	27113	1	KED
|	**Cu**	**65**	**6.604**	ug/L	0.067	1	25	13465	0	KED
|	**Zn**	**66**	**6.390**	ug/L	0.314	4	36	3218	3	KED
|	**Zn**	**67**	**6.099**	ug/L	0.366	5	6	502	5	KED
⌊	**As**	**75**	**0.351**	ug/L	0.020	5	2	87	6	KED
	Y	**89**		ug/L			38752	50471	3	Standard
	Kr	**83**		ug/L			40	45	8	Standard
⌈>	**In-1**	**115**		ug/L			6124	6249	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.007	618	4	4	32	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	79	3	6	34	KED
⌈>	**In**	**115**		ug/L			412702	436235	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	18	17	115	17	Standard
⌈>	**Tb**	**159**		ug/L			165777	178703	0	Standard
⌊	**Pb**	**208**	**2.526**	ug/L	0.011	0	350	218384	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:46:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	30527	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	458442	0	Standard
|	**Cr**	**52**	**-0.015**	ug/L	0.025	167	8038	8039	3	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.005	93	50	43	18	Standard
⌈>	**Ge**	**72**		ug/L			28647	29142	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	98	51	48	8	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.002	84	25	22	13	KED
|	**Zn**	**66**	**-0.020**	ug/L	0.026	134	36	27	43	KED
|	**Zn**	**67**	**-0.058**	ug/L	0.037	63	6	2	114	KED
⌊	**As**	**75**	**0.000**	ug/L	0.004	856	2	2	36	KED
	Y	**89**		ug/L			38752	38600	1	Standard
	Kr	**83**		ug/L			40	36	5	Standard
⌈>	**In-1**	**115**		ug/L			6124	6084	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	392	4	3	25	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.010	432	3	4	111	KED
⌈>	**In**	**115**		ug/L			412702	419892	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	154	17	13	49	Standard
⌈>	**Tb**	**159**		ug/L			165777	169399	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	83	350	293	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:50:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	42650	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	530401	2	Standard
|	**Cr**	**52**	**0.120**	ug/L	0.007	5	8038	11239	1	Standard
⌊	**Cr**	**53**	**0.474**	ug/L	0.007	1	50	846	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	28591	0	KED
|	**Cu**	**63**	**1.290**	ug/L	0.027	2	51	4951	1	KED
|	**Cu**	**65**	**1.301**	ug/L	0.021	1	25	2536	0	KED
|	**Zn**	**66**	**1.290**	ug/L	0.052	4	36	645	4	KED
|	**Zn**	**67**	**1.518**	ug/L	0.137	9	6	123	8	KED
⌊	**As**	**75**	**0.485**	ug/L	0.024	5	2	114	4	KED
	Y	**89**		ug/L			38752	47886	3	Standard
	Kr	**83**		ug/L			40	40	23	Standard
⌈>	**In-1**	**115**		ug/L			6124	5788	1	KED
|	**Cd**	**111**	**0.012**	ug/L	0.007	62	4	6	22	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.004	20	3	12	17	KED
⌈>	**In**	**115**		ug/L			412702	424716	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	132	17	27	48	Standard
⌈>	**Tb**	**159**		ug/L			165777	173082	0	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	7	350	953	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:55:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	36089	1	Standard
⌈>	**Sc**	**45**		ug/L			448237	508981	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.014	208	8038	9222	2	Standard
⌊	**Cr**	**53**	**0.471**	ug/L	0.036	7	50	807	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	27519	2	KED
|	**Cu**	**63**	**0.413**	ug/L	0.017	4	51	1558	1	KED
|	**Cu**	**65**	**0.399**	ug/L	0.054	13	25	765	12	KED
|	**Zn**	**66**	**1.670**	ug/L	0.134	8	36	793	6	KED
|	**Zn**	**67**	**1.816**	ug/L	0.419	23	6	140	20	KED
⌊	**As**	**75**	**0.386**	ug/L	0.025	6	2	87	3	KED
	Y	**89**		ug/L			38752	41667	3	Standard
	Kr	**83**		ug/L			40	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6124	5550	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.010	220	4	2	66	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	38	3	6	17	KED
⌈>	**In**	**115**		ug/L			412702	419007	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	74	17	25	24	Standard
⌈>	**Tb**	**159**		ug/L			165777	168327	2	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	2	350	1228	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:59:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	36160	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	501329	0	Standard
|	**Cr**	**52**	**0.098**	ug/L	0.027	27	8038	10320	3	Standard
⌊	**Cr**	**53**	**0.469**	ug/L	0.026	5	50	792	5	Standard
⌈>	**Ge**	**72**		ug/L			28647	26746	0	KED
|	**Cu**	**63**	**0.693**	ug/L	0.024	3	51	2510	3	KED
|	**Cu**	**65**	**0.676**	ug/L	0.022	3	25	1245	3	KED
|	**Zn**	**66**	**1.511**	ug/L	0.056	3	36	701	2	KED
|	**Zn**	**67**	**1.478**	ug/L	0.150	10	6	113	10	KED
⌊	**As**	**75**	**0.114**	ug/L	0.017	14	2	26	14	KED
	Y	**89**		ug/L			38752	40879	1	Standard
	Kr	**83**		ug/L			40	35	26	Standard
⌈>	**In-1**	**115**		ug/L			6124	5352	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	170	4	4	40	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	126	3	1	112	KED
⌈>	**In**	**115**		ug/L			412702	403498	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	116	17	24	35	Standard
⌈>	**Tb**	**159**		ug/L			165777	165184	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	11	350	784	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:03:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	42590	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	522766	2	Standard
|	**Cr**	**52**	**0.344**	ug/L	0.007	1	8038	14260	2	Standard
⌊	**Cr**	**53**	**0.595**	ug/L	0.019	3	50	1031	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	26398	0	KED
|	**Cu**	**63**	**0.272**	ug/L	0.019	6	51	1002	6	KED
|	**Cu**	**65**	**0.264**	ug/L	0.020	7	25	493	6	KED
|	**Zn**	**66**	**1.455**	ug/L	0.138	9	36	667	8	KED
|	**Zn**	**67**	**1.581**	ug/L	0.242	15	6	118	14	KED
⌊	**As**	**75**	**1.568**	ug/L	0.081	5	2	335	4	KED
	Y	**89**		ug/L			38752	48893	0	Standard
	Kr	**83**		ug/L			40	33	31	Standard
⌈>	**In-1**	**115**		ug/L			6124	5519	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.007	120	4	2	57	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	83	3	6	41	KED
⌈>	**In**	**115**		ug/L			412702	410491	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	299	17	20	48	Standard
⌈>	**Tb**	**159**		ug/L			165777	168884	2	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	3	350	1517	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:08:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	37374	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	543142	1	Standard
|	**Cr**	**52**	**0.110**	ug/L	0.011	10	8038	11359	1	Standard
⌊	**Cr**	**53**	**0.280**	ug/L	0.014	5	50	536	4	Standard
⌈>	**Ge**	**72**		ug/L			28647	26365	1	KED
|	**Cu**	**63**	**0.140**	ug/L	0.007	5	51	536	4	KED
|	**Cu**	**65**	**0.131**	ug/L	0.015	11	25	256	9	KED
|	**Zn**	**66**	**2.253**	ug/L	0.100	4	36	1014	2	KED
|	**Zn**	**67**	**2.603**	ug/L	0.114	4	6	191	3	KED
⌊	**As**	**75**	**1.190**	ug/L	0.034	2	2	255	4	KED
	Y	**89**		ug/L			38752	41959	1	Standard
	Kr	**83**		ug/L			40	33	26	Standard
⌈>	**In-1**	**115**		ug/L			6124	5401	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	117	4	2	33	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	180	3	4	57	KED
⌈>	**In**	**115**		ug/L			412702	406534	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	39	17	22	8	Standard
⌈>	**Tb**	**159**		ug/L			165777	172296	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	14	350	834	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:12:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27561	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	445679	2	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.012	31	8038	8433	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.007	155	50	56	17	Standard
⌈>	**Ge**	**72**		ug/L			28647	28593	1	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	44	51	36	18	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.003	53	25	12	52	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.019	82	36	26	32	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.028	86	6	4	49	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	1538	2	2	87	KED
	Y	**89**		ug/L			38752	38260	2	Standard
	Kr	**83**		ug/L			40	36	13	Standard
⌈>	**In-1**	**115**		ug/L			6124	5663	2	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.005	50	4	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	117	3	1	104	KED
⌈>	**In**	**115**		ug/L			412702	414879	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	41	17	10	28	Standard
⌈>	**Tb**	**159**		ug/L			165777	167727	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	30	350	254	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:17:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	25817	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	458964	2	Standard
|	**Cr**	**52**	**47.339**	ug/L	0.616	1	8038	597481	1	Standard
⌊	**Cr**	**53**	**47.127**	ug/L	1.094	2	50	67723	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	28285	1	KED
|	**Cu**	**63**	**49.769**	ug/L	1.510	3	51	187053	1	KED
|	**Cu**	**65**	**49.726**	ug/L	1.311	2	25	94927	1	KED
|	**Zn**	**66**	**50.171**	ug/L	1.805	3	36	23455	1	KED
|	**Zn**	**67**	**50.152**	ug/L	1.339	2	6	3824	1	KED
⌊	**As**	**75**	**49.459**	ug/L	1.582	3	2	11259	1	KED
	Y	**89**		ug/L			38752	39627	0	Standard
	Kr	**83**		ug/L			40	34	16	Standard
⌈>	**In-1**	**115**		ug/L			6124	5651	4	KED
|	**Cd**	**111**	**51.104**	ug/L	1.817	3	4	10440	2	KED
⌊	**Cd**	**114**	**51.219**	ug/L	2.169	4	3	26683	1	KED
⌈>	**In**	**115**		ug/L			412702	416361	1	Standard
⌊	**Ag**	**107**	**47.224**	ug/L	1.028	2	17	640079	0	Standard
⌈>	**Tb**	**159**		ug/L			165777	173175	2	Standard
⌊	**Pb**	**208**	**52.054**	ug/L	1.042	2	350	4352693	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:24:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	25999	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	447350	1	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.013	225	8038	7953	3	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.004	191	50	53	11	Standard
⌈>	**Ge**	**72**		ug/L			28647	28109	1	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	14	51	31	9	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	88	25	19	22	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.005	22	36	26	8	KED
|	**Zn**	**67**	**0.010**	ug/L	0.090	914	6	7	90	KED
⌊	**As**	**75**	**0.000**	ug/L	0.004	1855	2	2	39	KED
	Y	**89**		ug/L			38752	38816	1	Standard
	Kr	**83**		ug/L			40	33	28	Standard
⌈>	**In-1**	**115**		ug/L			6124	5534	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.007	57	4	1	114	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	36	3	6	17	KED
⌈>	**In**	**115**		ug/L			412702	422383	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	36	17	43	21	Standard
⌈>	**Tb**	**159**		ug/L			165777	167282	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	62	350	417	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:28:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	34980	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	507391	2	Standard
|	**Cr**	**52**	**-0.000**	ug/L	0.011	2810	8038	9093	2	Standard
⌊	**Cr**	**53**	**0.283**	ug/L	0.019	6	50	507	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	26697	1	KED
|	**Cu**	**63**	**0.111**	ug/L	0.003	3	51	440	2	KED
|	**Cu**	**65**	**0.116**	ug/L	0.014	11	25	232	10	KED
|	**Zn**	**66**	**1.554**	ug/L	0.157	10	36	718	8	KED
|	**Zn**	**67**	**2.143**	ug/L	0.179	8	6	160	8	KED
⌊	**As**	**75**	**0.679**	ug/L	0.053	7	2	148	7	KED
	Y	**89**		ug/L			38752	40544	3	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5355	3	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.000	3	4	1		KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.010	458	3	4	111	KED
⌈>	**In**	**115**		ug/L			412702	406592	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	121	17	26	42	Standard
⌈>	**Tb**	**159**		ug/L			165777	167561	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	4	350	1221	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-08
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:32:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	34708	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	521894	3	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.013	37	8038	9842	3	Standard
⌊	**Cr**	**53**	**0.532**	ug/L	0.008	1	50	927	4	Standard
⌈>	**Ge**	**72**		ug/L			28647	25650	1	KED
|	**Cu**	**63**	**0.549**	ug/L	0.013	2	51	1918	2	KED
|	**Cu**	**65**	**0.549**	ug/L	0.010	1	25	972	1	KED
|	**Zn**	**66**	**2.235**	ug/L	0.080	3	36	979	4	KED
|	**Zn**	**67**	**2.713**	ug/L	0.101	3	6	193	4	KED
⌊	**As**	**75**	**0.376**	ug/L	0.019	4	2	80	4	KED
	Y	**89**		ug/L			38752	42727	2	Standard
	Kr	**83**		ug/L			40	34	20	Standard
⌈>	**In-1**	**115**		ug/L			6124	5228	2	KED
|	**Cd**	**111**	**0.018**	ug/L	0.002	12	4	6	7	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.005	23	3	14	20	KED
⌈>	**In**	**115**		ug/L			412702	418045	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	3271	17	17	50	Standard
⌈>	**Tb**	**159**		ug/L			165777	167064	0	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.001	5	350	1348	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:37:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	39008	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	523709	2	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.009	298	8038	9348	1	Standard
⌊	**Cr**	**53**	**0.423**	ug/L	0.025	5	50	751	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	25094	2	KED
|	**Cu**	**63**	**1.206**	ug/L	0.033	2	51	4065	1	KED
|	**Cu**	**65**	**1.210**	ug/L	0.034	2	25	2071	0	KED
|	**Zn**	**66**	**2.156**	ug/L	0.124	5	36	925	5	KED
|	**Zn**	**67**	**2.797**	ug/L	0.633	22	6	194	19	KED
⌊	**As**	**75**	**0.379**	ug/L	0.019	5	2	78	4	KED
	Y	**89**		ug/L			38752	56516	3	Standard
	Kr	**83**		ug/L			40	35	24	Standard
⌈>	**In-1**	**115**		ug/L			6124	5268	2	KED
|	**Cd**	**111**	**0.056**	ug/L	0.012	21	4	14	17	KED
⌊	**Cd**	**114**	**0.050**	ug/L	0.008	16	3	27	16	KED
⌈>	**In**	**115**		ug/L			412702	413918	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	24	17	24	7	Standard
⌈>	**Tb**	**159**		ug/L			165777	165395	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	10	350	1075	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:41:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	37328	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	514346	2	Standard
|	**Cr**	**52**	**0.138**	ug/L	0.014	10	8038	11152	3	Standard
⌊	**Cr**	**53**	**1.128**	ug/L	0.011	1	50	1873	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	25872	0	KED
|	**Cu**	**63**	**0.438**	ug/L	0.009	1	51	1551	1	KED
|	**Cu**	**65**	**0.422**	ug/L	0.030	7	25	759	7	KED
|	**Zn**	**66**	**3.277**	ug/L	0.134	4	36	1433	3	KED
|	**Zn**	**67**	**3.610**	ug/L	0.275	7	6	257	7	KED
⌊	**As**	**75**	**0.154**	ug/L	0.008	5	2	34	4	KED
	Y	**89**		ug/L			38752	45722	0	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5294	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.010	77	4	6	32	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.007	88	3	7	52	KED
⌈>	**In**	**115**		ug/L			412702	418437	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	74	17	13	24	Standard
⌈>	**Tb**	**159**		ug/L			165777	172510	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	6	350	793	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-11
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:46:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	36551	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	478649	2	Standard
|	**Cr**	**52**	**0.539**	ug/L	0.040	7	8038	15579	1	Standard
⌊	**Cr**	**53**	**0.643**	ug/L	0.009	1	50	1016	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	27659	0	KED
|	**Cu**	**63**	**0.716**	ug/L	0.012	1	51	2680	1	KED
|	**Cu**	**65**	**0.697**	ug/L	0.024	3	25	1325	3	KED
|	**Zn**	**66**	**1.435**	ug/L	0.052	3	36	690	3	KED
|	**Zn**	**67**	**1.726**	ug/L	0.266	15	6	135	14	KED
⌊	**As**	**75**	**0.107**	ug/L	0.004	3	2	26	3	KED
	Y	**89**		ug/L			38752	44581	2	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5619	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.006	90	4	2	43	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	104	3	1	115	KED
⌈>	**In**	**115**		ug/L			412702	423122	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	42	17	12	18	Standard
⌈>	**Tb**	**159**		ug/L			165777	172262	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	17	350	942	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-12
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:50:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	37463	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	481580	2	Standard
|	**Cr**	**52**	**0.475**	ug/L	0.016	3	8038	14843	2	Standard
⌊	**Cr**	**53**	**0.571**	ug/L	0.031	5	50	914	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	27543	0	KED
|	**Cu**	**63**	**0.659**	ug/L	0.006	0	51	2462	1	KED
|	**Cu**	**65**	**0.637**	ug/L	0.030	4	25	1208	3	KED
|	**Zn**	**66**	**1.718**	ug/L	0.054	3	36	816	3	KED
|	**Zn**	**67**	**1.809**	ug/L	0.237	13	6	140	13	KED
⌊	**As**	**75**	**0.103**	ug/L	0.014	13	2	25	11	KED
	Y	**89**		ug/L			38752	44952	0	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5573	3	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.005	35	4	0	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.010	228	3	5	91	KED
⌈>	**In**	**115**		ug/L			412702	425006	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	511	17	15	54	Standard
⌈>	**Tb**	**159**		ug/L			165777	174747	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	11	350	860	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-13
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:54:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	50151	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	515471	4	Standard
|	**Cr**	**52**	**1.036**	ug/L	0.051	4	8038	23717	2	Standard
⌊	**Cr**	**53**	**1.163**	ug/L	0.031	2	50	1932	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	26794	2	KED
|	**Cu**	**63**	**4.548**	ug/L	0.126	2	51	16238	1	KED
|	**Cu**	**65**	**4.399**	ug/L	0.140	3	25	7976	1	KED
|	**Zn**	**66**	**1.833**	ug/L	0.087	4	36	845	3	KED
|	**Zn**	**67**	**2.737**	ug/L	0.334	12	6	203	10	KED
⌊	**As**	**75**	**0.367**	ug/L	0.023	6	2	81	4	KED
	Y	**89**		ug/L			38752	55318	0	Standard
	Kr	**83**		ug/L			40	29	7	Standard
⌈>	**In-1**	**115**		ug/L			6124	5465	4	KED
|	**Cd**	**111**	**0.011**	ug/L	0.014	128	4	5	44	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.015	119	3	9	74	KED
⌈>	**In**	**115**		ug/L			412702	417323	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	11	17	34	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	171029	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	4	350	1292	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-14
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:59:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	60913	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	519319	2	Standard
|	**Cr**	**52**	**0.917**	ug/L	0.019	2	8038	22240	3	Standard
⌊	**Cr**	**53**	**1.086**	ug/L	0.010	0	50	1823	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	26673	0	KED
|	**Cu**	**63**	**12.597**	ug/L	0.095	0	51	44697	0	KED
|	**Cu**	**65**	**12.583**	ug/L	0.156	1	25	22674	0	KED
|	**Zn**	**66**	**1.341**	ug/L	0.039	2	36	624	3	KED
|	**Zn**	**67**	**1.414**	ug/L	0.270	19	6	107	17	KED
⌊	**As**	**75**	**54.959**	ug/L	0.366	0	2	11803	1	KED
	Y	**89**		ug/L			38752	51441	2	Standard
	Kr	**83**		ug/L			40	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6124	5208	1	KED
|	**Cd**	**111**	**0.064**	ug/L	0.017	26	4	15	19	KED
⌊	**Cd**	**114**	**0.052**	ug/L	0.025	47	3	28	41	KED
⌈>	**In**	**115**		ug/L			412702	399894	2	Standard
⌊	**Ag**	**107**	**0.021**	ug/L	0.001	6	17	295	7	Standard
⌈>	**Tb**	**159**		ug/L			165777	171823	1	Standard
⌊	**Pb**	**208**	**3.243**	ug/L	0.018	0	350	269471	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-15
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:03:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	35421	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	497187	2	Standard
|	**Cr**	**52**	**1.002**	ug/L	0.021	2	8038	22430	1	Standard
⌊	**Cr**	**53**	**1.130**	ug/L	0.046	4	50	1815	5	Standard
⌈>	**Ge**	**72**		ug/L			28647	27665	0	KED
|	**Cu**	**63**	**0.293**	ug/L	0.005	1	51	1126	2	KED
|	**Cu**	**65**	**0.310**	ug/L	0.011	3	25	603	2	KED
|	**Zn**	**66**	**1.461**	ug/L	0.088	6	36	702	5	KED
|	**Zn**	**67**	**1.589**	ug/L	0.353	22	6	125	20	KED
⌊	**As**	**75**	**0.176**	ug/L	0.005	2	2	41	2	KED
	Y	**89**		ug/L			38752	41465	0	Standard
	Kr	**83**		ug/L			40	33	34	Standard
⌈>	**In-1**	**115**		ug/L			6124	5424	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.008	61	4	0	173	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.006	102	3	6	47	KED
⌈>	**In**	**115**		ug/L			412702	422790	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	186	17	14	41	Standard
⌈>	**Tb**	**159**		ug/L			165777	173661	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	350	790	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	26979	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	446006	2	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.020	146	8038	8160	1	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.008	143	50	57	16	Standard
⌈>	**Ge**	**72**		ug/L			28647	27330	2	KED
|	**Cu**	**63**	**-0.008**	ug/L	0.001	10	51	19	14	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.002	27	25	8	44	KED
|	**Zn**	**66**	**-0.033**	ug/L	0.006	18	36	20	14	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.041	1039	6	6	45	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	169	2	1	62	KED
	Y	**89**		ug/L			38752	39183	1	Standard
	Kr	**83**		ug/L			40	40	37	Standard
⌈>	**In-1**	**115**		ug/L			6124	5504	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.005	44	4	1	86	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	123	3	1	100	KED
⌈>	**In**	**115**		ug/L			412702	427851	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	45	17	10	26	Standard
⌈>	**Tb**	**159**		ug/L			165777	170202	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	15	350	252	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:12:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	24982	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	453215	3	Standard
|	**Cr**	**52**	**46.451**	ug/L	0.802	1	8038	579315	4	Standard
⌊	**Cr**	**53**	**46.660**	ug/L	1.299	2	50	66213	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	27759	1	KED
|	**Cu**	**63**	**50.342**	ug/L	0.608	1	51	185775	2	KED
|	**Cu**	**65**	**49.546**	ug/L	0.295	0	25	92845	0	KED
|	**Zn**	**66**	**51.625**	ug/L	0.166	0	36	23695	1	KED
|	**Zn**	**67**	**50.095**	ug/L	1.491	2	6	3749	2	KED
⌊	**As**	**75**	**49.557**	ug/L	0.556	1	2	11076	1	KED
	Y	**89**		ug/L			38752	39500	1	Standard
	Kr	**83**		ug/L			40	34	16	Standard
⌈>	**In-1**	**115**		ug/L			6124	5581	2	KED
|	**Cd**	**111**	**50.088**	ug/L	2.172	4	4	10108	2	KED
⌊	**Cd**	**114**	**50.711**	ug/L	2.220	4	3	26104	1	KED
⌈>	**In**	**115**		ug/L			412702	408762	1	Standard
⌊	**Ag**	**107**	**47.187**	ug/L	0.917	1	17	628146	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	170367	0	Standard
⌊	**Pb**	**208**	**53.286**	ug/L	0.162	0	350	4384594	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:19:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	24546	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	439611	0	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.003	10	8038	7559	0	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.003	232	50	51	6	Standard
⌈>	**Ge**	**72**		ug/L			28647	27443	2	KED
|	**Cu**	**63**	**0.019**	ug/L	0.029	156	51	119	93	KED
|	**Cu**	**65**	**0.012**	ug/L	0.026	220	25	46	106	KED
|	**Zn**	**66**	**0.036**	ug/L	0.050	137	36	52	46	KED
|	**Zn**	**67**	**-0.023**	ug/L	0.051	227	6	5	78	KED
⌊	**As**	**75**	**0.028**	ug/L	0.028	101	2	8	75	KED
	Y	**89**		ug/L			38752	38324	0	Standard
	Kr	**83**		ug/L			40	34	39	Standard
⌈>	**In-1**	**115**		ug/L			6124	5670	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.005	48	4	1	69	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	225	3	4	49	KED
⌈>	**In**	**115**		ug/L			412702	412049	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	8	17	31	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	164866	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	67	350	402	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:23:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	40373	7	Standard
>	**Sc**	**45**		ug/L			448237	599787	2	Standard
	Cr	**52**	**0.551**	ug/L	0.022	3	8038	19717	3	Standard
	Cr	**53**	**0.814**	ug/L	0.039	4	50	1596	5	Standard
>	**Ge**	**72**		ug/L			28647	24092	0	KED
	Cu	**63**	**0.283**	ug/L	0.020	7	51	950	7	KED
	Cu	**65**	**0.276**	ug/L	0.023	8	25	469	7	KED
	Zn	**66**	**1.464**	ug/L	0.041	2	36	613	1	KED
	Zn	**67**	**2.906**	ug/L	0.225	7	6	194	6	KED
	As	**75**	**12.475**	ug/L	0.185	1	2	2421	0	KED
	Y	**89**		ug/L			38752	68837	1	Standard
	Kr	**83**		ug/L			40	35	8	Standard
>	**In-1**	**115**		ug/L			6124	4859	2	KED
	Cd	**111**	**0.005**	ug/L	0.013	259	4	4	53	KED
	Cd	**114**	**0.007**	ug/L	0.007	88	3	6	45	KED
>	**In**	**115**		ug/L			412702	328354	3	Standard
	Ag	**107**	**0.010**	ug/L	0.002	20	17	118	19	Standard
>	**Tb**	**159**		ug/L			165777	138260	3	Standard
	Pb	**208**	**0.026**	ug/L	0.001	3	350	2038	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:28:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	34260	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	526058	2	Standard
|	**Cr**	**52**	**0.649**	ug/L	0.021	3	8038	18686	2	Standard
⌊	**Cr**	**53**	**0.860**	ug/L	0.041	4	50	1475	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	24934	2	KED
|	**Cu**	**63**	**3.118**	ug/L	0.123	3	51	10370	2	KED
|	**Cu**	**65**	**3.010**	ug/L	0.078	2	25	5085	2	KED
|	**Zn**	**66**	**8.387**	ug/L	0.245	2	36	3483	1	KED
|	**Zn**	**67**	**8.270**	ug/L	0.453	5	6	561	5	KED
⌊	**As**	**75**	**1.589**	ug/L	0.068	4	2	320	2	KED
	Y	**89**		ug/L			38752	57215	1	Standard
	Kr	**83**		ug/L			40	37	25	Standard
⌈>	**In-1**	**115**		ug/L			6124	4993	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.011	258	4	4	48	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.013	140	3	7	80	KED
⌈>	**In**	**115**		ug/L			412702	389749	2	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.001	7	17	161	4	Standard
⌈>	**Tb**	**159**		ug/L			165777	166152	1	Standard
⌊	**Pb**	**208**	**0.068**	ug/L	0.002	2	350	5824	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-05
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 05:32:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	33105	5	Standard
>	**Sc**	**45**		ug/L			448237	607600	1	Standard
	Cr	**52**	**0.733**	ug/L	0.031	4	8038	22967	0	Standard
	Cr	**53**	**0.959**	ug/L	0.018	1	50	1891	0	Standard
>	**Ge**	**72**		ug/L			28647	21788	15	KED
	Cu	**63**	**0.125**	ug/L	0.022	17	51	395	4	KED
	Cu	**65**	**0.137**	ug/L	0.035	25	25	215	6	KED
	Zn	**66**	**1.022**	ug/L	0.258	25	36	386	6	KED
	Zn	**67**	**2.284**	ug/L	0.788	34	6	134	15	KED
	As	**75**	**21.548**	ug/L	2.498	11	2	3736	4	KED
	Y	**89**		ug/L			38752	64840	2	Standard
	Kr	**83**		ug/L			40	35	15	Standard
>	**In-1**	**115**		ug/L			6124	4804	2	KED
	Cd	**111**	**-0.008**	ug/L	0.005	70	4	1	50	KED
	Cd	**114**	**-0.005**	ug/L	0.002	45	3	0	135	KED
>	**In**	**115**		ug/L			412702	373853	1	Standard
	Ag	**107**	**0.005**	ug/L	0.001	14	17	74	11	Standard
>	**Tb**	**159**		ug/L			165777	159311	2	Standard
	Pb	**208**	**0.019**	ug/L	0.001	5	350	1763	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:36:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	38801	5	Standard
> Sc	45		ug/L			448237	625527	2	Standard
Cr	52	0.747	ug/L	0.006	0	8038	23900	2	Standard
Cr	53	1.077	ug/L	0.007	0	50	2178	2	Standard
> Ge	72		ug/L			28647	23769	0	KED
Cu	63	0.058	ug/L	0.006	9	51	226	7	KED
Cu	65	0.058	ug/L	0.007	12	25	113	10	KED
Zn	66	0.539	ug/L	0.030	5	36	241	4	KED
Zn	67	2.082	ug/L	0.155	7	6	139	7	KED
As	75	5.811	ug/L	0.095	1	2	1114	1	KED
Y	89		ug/L			38752	67879	0	Standard
Kr	83		ug/L			40	35	17	Standard
> In-1	115		ug/L			6124	4815	3	KED
Cd	111	0.005	ug/L	0.009	175	4	4	35	KED
Cd	114	-0.002	ug/L	0.005	305	3	2	101	KED
> In	115		ug/L			412702	358808	1	Standard
Ag	107	0.004	ug/L	0.000	10	17	57	8	Standard
> Tb	159		ug/L			165777	152290	1	Standard
Pb	208	0.009	ug/L	0.000	2	350	1012	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:42:41

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	17761	6	Standard
> Sc	45		ug/L			448237	231078	5	Standard
Cr	52	0.723	ug/L	0.026	3	8038	8673	3	Standard
Cr	53	52.191	ug/L	0.345	0	50	37759	4	Standard
> Ge	72		ug/L			28647	8352	0	KED
Cu	63	1.544	ug/L	0.059	3	51	1729	4	KED
Cu	65	1.599	ug/L	0.122	7	25	908	6	KED
Zn	66	8.637	ug/L	0.767	8	36	1201	7	KED
Zn	67	10.530	ug/L	1.169	11	6	238	10	KED
As	75	1.235	ug/L	0.043	3	2	83	4	KED
Y	89		ug/L			38752	19425	4	Standard
Kr	83		ug/L			40	1582	3	Standard
> In-1	115		ug/L			6124	1935	1	KED
Cd	111	0.108	ug/L	0.063	58	4	8	50	KED
Cd	114	0.056	ug/L	0.012	21	3	11	17	KED
> In	115		ug/L			412702	116852	4	Standard
Ag	107	0.011	ug/L	0.000	3	17	48	6	Standard
> Tb	159		ug/L			165777	51852	3	Standard
Pb	208	0.021	ug/L	0.000	1	350	647	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:47:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	30698	5	Standard
> Sc	45		ug/L			448237	363422	3	Standard
Cr	52	0.375	ug/L	0.020	5	8038	10218	3	Standard
Cr	53	22.456	ug/L	0.436	1	50	25575	3	Standard
> Ge	72		ug/L			28647	15417	1	KED
Cu	63	0.551	ug/L	0.018	3	51	1156	3	KED
Cu	65	0.543	ug/L	0.028	5	25	578	4	KED
Zn	66	2.326	ug/L	0.100	4	36	612	5	KED
Zn	67	5.124	ug/L	0.163	3	6	216	4	KED
As	75	1.788	ug/L	0.044	2	2	223	3	KED
Y	89		ug/L			38752	26993	4	Standard
Kr	83		ug/L			40	332	6	Standard
> In-1	115		ug/L			6124	3207	1	KED
Cd	111	0.058	ug/L	0.013	22	4	8	16	KED
Cd	114	0.042	ug/L	0.010	23	3	14	20	KED
> In	115		ug/L			412702	197126	2	Standard
Ag	107	0.003	ug/L	0.002	58	17	24	38	Standard
> Tb	159		ug/L			165777	90869	2	Standard
Pb	208	0.018	ug/L	0.000	1	350	984	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-08
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:51:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	59809	4	Standard
> Sc	45		ug/L			448237	608571	1	Standard
Cr	52	0.829	ug/L	0.027	3	8038	24593	1	Standard
Cr	53	5.633	ug/L	0.074	1	50	10796	2	Standard
> Ge	72		ug/L			28647	31934	0	KED
Cu	63	3.272	ug/L	0.072	2	51	13944	1	KED
Cu	65	3.165	ug/L	0.081	2	25	6849	2	KED
Zn	66	0.823	ug/L	0.007	0	36	474	0	KED
Zn	67	0.803	ug/L	0.073	9	6	76	7	KED
As	75	1.529	ug/L	0.088	5	2	395	5	KED
Y	89		ug/L			38752	57187	1	Standard
Kr	83		ug/L			40	43	11	Standard
> In-1	115		ug/L			6124	6343	2	KED
Cd	111	-0.001	ug/L	0.012	1465	4	4	70	KED
Cd	114	-0.001	ug/L	0.005	539	3	3	98	KED
> In	115		ug/L			412702	392034	3	Standard
Ag	107	0.001	ug/L	0.001	70	17	25	22	Standard
> Tb	159		ug/L			165777	178669	0	Standard
Pb	208	0.014	ug/L	0.000	3	350	1605	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:55:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	58330	4	Standard
>	Sc	45		ug/L			448237	572775	1	Standard
	Cr	52	0.948	ug/L	0.041	4	8038	24998	1	Standard
	Cr	53	4.323	ug/L	0.041	0	50	7812	1	Standard
>	Ge	72		ug/L			28647	30641	1	KED
	Cu	63	3.485	ug/L	0.041	1	51	14244	0	KED
	Cu	65	3.457	ug/L	0.077	2	25	7174	0	KED
	Zn	66	1.100	ug/L	0.065	5	36	595	5	KED
	Zn	67	0.972	ug/L	0.110	11	6	87	9	KED
	As	75	1.541	ug/L	0.122	7	2	382	6	KED
	Y	89		ug/L			38752	53861	2	Standard
	Kr	83		ug/L			40	51	25	Standard
>	In-1	115		ug/L			6124	6056	1	KED
	Cd	111	-0.006	ug/L	0.011	196	4	2	88	KED
	Cd	114	-0.002	ug/L	0.005	286	3	2	110	KED
>	In	115		ug/L			412702	378024	1	Standard
	Ag	107	0.002	ug/L	0.001	49	17	37	28	Standard
>	Tb	159		ug/L			165777	174038	1	Standard
	Pb	208	0.022	ug/L	0.001	4	350	2214	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-12
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:00:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	46185	4	Standard
>	Sc	45		ug/L			448237	544548	1	Standard
	Cr	52	0.246	ug/L	0.027	10	8038	13403	2	Standard
	Cr	53	0.968	ug/L	0.041	4	50	1710	3	Standard
>	Ge	72		ug/L			28647	33646	1	KED
	Cu	63	0.532	ug/L	0.002	0	51	2440	1	KED
	Cu	65	0.517	ug/L	0.033	6	25	1203	7	KED
	Zn	66	0.649	ug/L	0.047	7	36	403	5	KED
	Zn	67	0.792	ug/L	0.115	14	6	80	13	KED
	As	75	0.001	ug/L	0.003	384	2	3	22	KED
	Y	89		ug/L			38752	38286	3	Standard
	Kr	83		ug/L			40	50	30	Standard
>	In-1	115		ug/L			6124	6661	2	KED
	Cd	111	-0.011	ug/L	0.004	38	4	1	50	KED
	Cd	114	0.000	ug/L	0.005	4473	3	4	70	KED
>	In	115		ug/L			412702	424435	1	Standard
	Ag	107	-0.000	ug/L	0.000	66	17	15	12	Standard
>	Tb	159		ug/L			165777	183413	1	Standard
	Pb	208	0.008	ug/L	0.001	7	350	1083	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:04:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	31558	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	504623	2	Standard
|	**Cr**	**52**	**0.042**	ug/L	0.026	61	8038	9628	4	Standard
⌊	**Cr**	**53**	**0.566**	ug/L	0.015	2	50	950	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	32567	3	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.001	11	51	33	6	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.003	43	25	13	51	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.005	47	36	36	10	KED
|	**Zn**	**67**	**-0.040**	ug/L	0.032	79	6	4	65	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.006	8494	2	2	50	KED
	Y	**89**		ug/L			38752	36421	2	Standard
	Kr	**83**		ug/L			40	50	28	Standard
⌈>	**In-1**	**115**		ug/L			6124	6465	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	469	4	4	40	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	39	3	1	94	KED
⌈>	**In**	**115**		ug/L			412702	404097	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	250	17	14	41	Standard
⌈>	**Tb**	**159**		ug/L			165777	173806	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	62	350	307	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:09:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	28089	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	500238	2	Standard
|	**Cr**	**52**	**46.342**	ug/L	1.666	3	8038	637635	2	Standard
⌊	**Cr**	**53**	**46.258**	ug/L	1.384	2	50	72443	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	31798	1	KED
|	**Cu**	**63**	**49.989**	ug/L	0.628	1	51	211286	0	KED
|	**Cu**	**65**	**48.835**	ug/L	0.757	1	25	104828	1	KED
|	**Zn**	**66**	**50.384**	ug/L	0.727	1	36	26491	1	KED
|	**Zn**	**67**	**50.846**	ug/L	1.716	3	6	4360	2	KED
⌊	**As**	**75**	**49.456**	ug/L	0.873	1	2	12661	0	KED
	Y	**89**		ug/L			38752	36596	0	Standard
	Kr	**83**		ug/L			40	48	17	Standard
⌈>	**In-1**	**115**		ug/L			6124	6257	4	KED
|	**Cd**	**111**	**48.679**	ug/L	2.211	4	4	11005	0	KED
⌊	**Cd**	**114**	**50.875**	ug/L	1.485	2	3	29353	1	KED
⌈>	**In**	**115**		ug/L			412702	394200	1	Standard
⌊	**Ag**	**107**	**48.362**	ug/L	1.578	3	17	620685	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	177982	1	Standard
⌊	**Pb**	**208**	**50.250**	ug/L	0.383	0	350	4319833	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:16:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	26594	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	488958	3	Standard
|	**Cr**	**52**	**-0.022**	ug/L	0.004	18	8038	8484	4	Standard
⌊	**Cr**	**53**	**0.321**	ug/L	0.023	7	50	546	9	Standard
⌈>	**Ge**	**72**		ug/L			28647	31070	2	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.004	62	51	27	64	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.004	59	25	12	67	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.001	5	36	31	3	KED
|	**Zn**	**67**	**0.024**	ug/L	0.024	103	6	9	20	KED
⌊	**As**	**75**	**0.007**	ug/L	0.003	34	2	4	11	KED
	Y	**89**		ug/L			38752	37149	2	Standard
	Kr	**83**		ug/L			40	43	15	Standard
⌈>	**In-1**	**115**		ug/L			6124	6245	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	207	4	3	41	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	412	3	4	50	KED
⌈>	**In**	**115**		ug/L			412702	405028	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	23	17	45	15	Standard
⌈>	**Tb**	**159**		ug/L			165777	173523	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	350	428	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:20:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	42525	2	Standard
>	**Sc**	**45**		ug/L			448237	694230	1	Standard
	Cr	**52**	**0.236**	ug/L	0.020	8	8038	16904	2	Standard
	Cr	**53**	**0.703**	ug/L	0.020	2	50	1605	2	Standard
>	**Ge**	**72**		ug/L			28647	28128	1	KED
	Cu	**63**	**0.138**	ug/L	0.007	4	51	566	5	KED
	Cu	**65**	**0.147**	ug/L	0.014	9	25	304	8	KED
	Zn	**66**	**1.017**	ug/L	0.040	3	36	508	4	KED
	Zn	**67**	**1.370**	ug/L	0.197	14	6	110	11	KED
	As	**75**	**2.219**	ug/L	0.058	2	2	504	2	KED
	Y	**89**		ug/L			38752	47039	3	Standard
	Kr	**83**		ug/L			40	53	30	Standard
>	**In-1**	**115**		ug/L			6124	5687	4	KED
	Cd	**111**	**0.017**	ug/L	0.012	70	4	7	32	KED
	Cd	**114**	**0.015**	ug/L	0.010	62	3	11	43	KED
>	**In**	**115**		ug/L			412702	371523	1	Standard
	Ag	**107**	**0.004**	ug/L	0.002	47	17	64	35	Standard
>	**Tb**	**159**		ug/L			165777	163663	1	Standard
	Pb	**208**	**0.071**	ug/L	0.003	3	350	5976	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:24:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	49735	5	Standard
>	**Sc**	**45**		ug/L			448237	570785	3	Standard
	Cr	**52**	**0.511**	ug/L	0.020	3	8038	18141	1	Standard
	Cr	**53**	**0.873**	ug/L	0.037	4	50	1624	5	Standard
>	**Ge**	**72**		ug/L			28647	29362	0	KED
	Cu	**63**	**5.258**	ug/L	0.024	0	51	20569	0	KED
	Cu	**65**	**5.291**	ug/L	0.056	1	25	10511	1	KED
	Zn	**66**	**11.958**	ug/L	0.123	1	36	5834	1	KED
	Zn	**67**	**11.733**	ug/L	0.504	4	6	934	4	KED
	As	**75**	**1.838**	ug/L	0.059	3	2	437	3	KED
	Y	**89**		ug/L			38752	48599	3	Standard
	Kr	**83**		ug/L			40	41	23	Standard
>	**In-1**	**115**		ug/L			6124	5717	3	KED
	Cd	**111**	**0.126**	ug/L	0.016	12	4	29	10	KED
	Cd	**114**	**0.101**	ug/L	0.030	29	3	56	26	KED
>	**In**	**115**		ug/L			412702	403369	0	Standard
	Ag	**107**	**0.016**	ug/L	0.003	21	17	224	20	Standard
>	**Tb**	**159**		ug/L			165777	178062	0	Standard
	Pb	**208**	**0.305**	ug/L	0.006	1	350	26620	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:29:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	41883	1	Standard
>	**Sc**	**45**		ug/L			448237	685666	2	Standard
	Cr	**52**	**0.283**	ug/L	0.016	5	8038	17558	2	Standard
	Cr	**53**	**0.708**	ug/L	0.006	0	50	1596	2	Standard
>	**Ge**	**72**		ug/L			28647	26983	1	KED
	Cu	**63**	**0.137**	ug/L	0.006	4	51	539	5	KED
	Cu	**65**	**0.142**	ug/L	0.007	4	25	282	5	KED
	Zn	**66**	**1.440**	ug/L	0.092	6	36	676	6	KED
	Zn	**67**	**2.462**	ug/L	0.159	6	6	185	5	KED
	As	**75**	**1.745**	ug/L	0.086	4	2	381	5	KED
	Y	**89**		ug/L			38752	46722	1	Standard
	Kr	**83**		ug/L			40	34	22	Standard
>	**In-1**	**115**		ug/L			6124	5415	3	KED
	Cd	**111**	**-0.004**	ug/L	0.010	231	4	2	66	KED
	Cd	**114**	**0.008**	ug/L	0.004	45	3	7	28	KED
>	**In**	**115**		ug/L			412702	366298	3	Standard
	Ag	**107**	**0.002**	ug/L	0.000	23	17	34	15	Standard
>	**Tb**	**159**		ug/L			165777	159318	1	Standard
	Pb	**208**	**0.019**	ug/L	0.001	5	350	1767	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:33:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	47810	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	543763	2	Standard
|	**Cr**	**52**	**0.830**	ug/L	0.029	3	8038	21986	1	Standard
⌊	**Cr**	**53**	**1.101**	ug/L	0.010	0	50	1935	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	26460	0	KED
|	**Cu**	**63**	**2.170**	ug/L	0.030	1	51	7677	1	KED
|	**Cu**	**65**	**2.101**	ug/L	0.035	1	25	3775	1	KED
|	**Zn**	**66**	**2.952**	ug/L	0.169	5	36	1323	5	KED
|	**Zn**	**67**	**3.421**	ug/L	0.336	9	6	250	9	KED
⌊	**As**	**75**	**3.319**	ug/L	0.074	2	2	709	1	KED
	Y	**89**		ug/L			38752	45453	1	Standard
	Kr	**83**		ug/L			40	45	17	Standard
⌈>	**In-1**	**115**		ug/L			6124	5459	3	KED
|	**Cd**	**111**	**0.041**	ug/L	0.006	15	4	11	9	KED
⌊	**Cd**	**114**	**0.061**	ug/L	0.023	37	3	34	30	KED
⌈>	**In**	**115**		ug/L			412702	373404	1	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.002	16	17	153	14	Standard
⌈>	**Tb**	**159**		ug/L			165777	163816	0	Standard
⌊	**Pb**	**208**	**0.135**	ug/L	0.004	3	350	11014	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:37:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27742	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	457309	2	Standard
|	**Cr**	**52**	**-0.042**	ug/L	0.020	48	8038	7672	2	Standard
⌊	**Cr**	**53**	**0.192**	ug/L	0.011	5	50	326	6	Standard
⌈>	**Ge**	**72**		ug/L			28647	28109	0	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.001	15	51	24	16	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	60	25	20	14	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.011	24	36	15	33	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.014	29	6	3	34	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	227	2	2	48	KED
	Y	**89**		ug/L			38752	36044	2	Standard
	Kr	**83**		ug/L			40	33	13	Standard
⌈>	**In-1**	**115**		ug/L			6124	5782	2	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	31	4	0	100	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	92	3	2	46	KED
⌈>	**In**	**115**		ug/L			412702	400011	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	79	17	8	68	Standard
⌈>	**Tb**	**159**		ug/L			165777	168328	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	1	350	154	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-02
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 06:42:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	17383	7	Standard
> Sc	45		ug/L			448237	262738	5	Standard
Cr	52	1.775	ug/L	0.041	2	8038	17357	4	Standard
Cr	53	28.313	ug/L	0.623	2	50	23306	5	Standard
> Ge	72		ug/L			28647	9849	3	KED
Cu	63	1.282	ug/L	0.041	3	51	1695	4	KED
Cu	65	1.311	ug/L	0.020	1	25	880	3	KED
Zn	66	1.433	ug/L	0.203	14	36	245	10	KED
Zn	67	2.135	ug/L	0.094	4	6	59	6	KED
As	75	0.799	ug/L	0.049	6	2	64	9	KED
Y	89		ug/L			38752	21862	3	Standard
Kr	83		ug/L			40	427	11	Standard
> In-1	115		ug/L			6124	2264	3	KED
Cd	111	0.047	ug/L	0.012	24	4	5	20	KED
Cd	114	0.032	ug/L	0.011	33	3	7	26	KED
> In	115		ug/L			412702	153829	2	Standard
Ag	107	0.009	ug/L	0.001	7	17	50	5	Standard
> Tb	159		ug/L			165777	69804	1	Standard
Pb	208	0.022	ug/L	0.002	7	350	878	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-DUP1
Sample Dil Factor:
Comments:
DEL
Sample Date/Time: Friday, May 12, 2023 06:46:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	19225	8	Standard
> Sc	45		ug/L			448237	275105	4	Standard
Cr	52	1.762	ug/L	0.046	2	8038	18085	5	Standard
Cr	53	26.406	ug/L	0.418	1	50	22755	3	Standard
> Ge	72		ug/L			28647	10607	1	KED
Cu	63	1.177	ug/L	0.025	2	51	1678	2	KED
Cu	65	1.181	ug/L	0.074	6	25	855	7	KED
Zn	66	1.257	ug/L	0.109	8	36	233	7	KED
Zn	67	2.666	ug/L	0.397	14	6	78	14	KED
As	75	0.734	ug/L	0.064	8	2	63	9	KED
Y	89		ug/L			38752	21868	3	Standard
Kr	83		ug/L			40	403	11	Standard
> In-1	115		ug/L			6124	2247	3	KED
Cd	111	0.021	ug/L	0.029	137	4	3	69	KED
Cd	114	0.031	ug/L	0.036	115	3	8	98	KED
> In	115		ug/L			412702	153606	3	Standard
Ag	107	0.008	ug/L	0.002	22	17	47	17	Standard
> Tb	159		ug/L			165777	70087	1	Standard
Pb	208	0.022	ug/L	0.001	4	350	903	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:50:57

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	19786	7	Standard
> Sc	45		ug/L			448237	271230	3	Standard
Cr	52	22.694	ug/L	0.111	0	8038	171840	3	Standard
Cr	53	48.152	ug/L	0.772	1	50	40887	1	Standard
> Ge	72		ug/L			28647	10203	0	KED
Cu	63	23.880	ug/L	0.347	1	51	32394	0	KED
Cu	65	23.525	ug/L	0.285	1	25	16209	1	KED
Zn	66	54.684	ug/L	1.607	2	36	9223	2	KED
Zn	67	52.527	ug/L	1.653	3	6	1445	2	KED
As	75	22.030	ug/L	0.207	0	2	1810	0	KED
Y	89		ug/L			38752	21673	2	Standard
Kr	83		ug/L			40	396	7	Standard
> In-1	115		ug/L			6124	2158	4	KED
Cd	111	18.081	ug/L	0.659	3	4	1411	0	KED
Cd	114	18.159	ug/L	1.307	7	3	3610	2	KED
> In	115		ug/L			412702	146661	2	Standard
Ag	107	19.086	ug/L	0.043	0	17	91147	2	Standard
> Tb	159		ug/L			165777	68582	0	Standard
Pb	208	18.976	ug/L	0.354	1	350	628618	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:55:42

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	18283	7	Standard
> Sc	45		ug/L			448237	267654	4	Standard
Cr	52	22.434	ug/L	0.131	0	8038	167669	3	Standard
Cr	53	47.760	ug/L	1.118	2	50	40059	6	Standard
> Ge	72		ug/L			28647	9434	10	KED
Cu	63	25.810	ug/L	2.584	10	51	32147	1	KED
Cu	65	25.541	ug/L	2.840	11	25	16143	1	KED
Zn	66	58.973	ug/L	6.566	11	36	9126	2	KED
Zn	67	59.017	ug/L	7.534	12	6	1487	2	KED
As	75	24.201	ug/L	2.608	10	2	1824	0	KED
Y	89		ug/L			38752	21695	2	Standard
Kr	83		ug/L			40	455	15	Standard
> In-1	115		ug/L			6124	2156	4	KED
Cd	111	17.767	ug/L	1.089	6	4	1384	3	KED
Cd	114	18.136	ug/L	1.419	7	3	3601	3	KED
> In	115		ug/L			412702	143050	1	Standard
Ag	107	19.186	ug/L	0.138	0	17	89372	2	Standard
> Tb	159		ug/L			165777	67422	1	Standard
Pb	208	19.372	ug/L	0.410	2	350	630859	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:00:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	31830	1	Standard
>	Sc	45		ug/L			448237	567342	1	Standard
	Cr	52	0.053	ug/L	0.016	29	8038	10997	3	Standard
	Cr	53	0.841	ug/L	0.029	3	50	1557	4	Standard
>	Ge	72		ug/L			28647	36154	0	KED
	Cu	63	-0.003	ug/L	0.001	21	51	51	6	KED
	Cu	65	-0.005	ug/L	0.001	13	25	19	10	KED
	Zn	66	-0.003	ug/L	0.012	356	36	44	16	KED
	Zn	67	-0.013	ug/L	0.051	408	6	7	66	KED
	As	75	0.000	ug/L	0.009	1846	2	3	75	KED
	Y	89		ug/L			38752	37108	4	Standard
	Kr	83		ug/L			40	24	7	Standard
>	In-1	115		ug/L			6124	6953	2	KED
	Cd	111	-0.001	ug/L	0.009	836	4	4	53	KED
	Cd	114	0.000	ug/L	0.002	3619	3	4	26	KED
>	In	115		ug/L			412702	402007	1	Standard
	Ag	107	0.001	ug/L	0.000	28	17	25	11	Standard
>	Tb	159		ug/L			165777	180143	0	Standard
	Pb	208	0.004	ug/L	0.001	16	350	743	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:04:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	25754	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	474757	2	Standard
|	**Cr**	**52**	**43.291**	ug/L	1.489	3	8038	565734	1	Standard
⌊	**Cr**	**53**	**42.910**	ug/L	1.575	3	50	63770	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	30689	1	KED
|	**Cu**	**63**	**49.123**	ug/L	1.272	2	51	200344	1	KED
|	**Cu**	**65**	**49.656**	ug/L	1.766	3	25	102847	2	KED
|	**Zn**	**66**	**50.650**	ug/L	1.285	2	36	25703	2	KED
|	**Zn**	**67**	**49.862**	ug/L	0.427	0	6	4127	2	KED
⌊	**As**	**75**	**50.245**	ug/L	1.001	1	2	12413	0	KED
	Y	**89**		ug/L			38752	35167	1	Standard
	Kr	**83**		ug/L			40	36	24	Standard
⌈>	**In-1**	**115**		ug/L			6124	5715	1	KED
|	**Cd**	**111**	**51.094**	ug/L	0.347	0	4	10567	2	KED
⌊	**Cd**	**114**	**52.390**	ug/L	0.384	0	3	27634	1	KED
⌈>	**In**	**115**		ug/L			412702	369882	1	Standard
⌊	**Ag**	**107**	**49.464**	ug/L	1.593	3	17	595465	1	Standard
⌈>	**Tb**	**159**		ug/L			165777	164981	1	Standard
⌊	**Pb**	**208**	**51.634**	ug/L	0.630	1	350	4113891	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:11:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	23764	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	443773	0	Standard
|	**Cr**	**52**	**-0.062**	ug/L	0.026	41	8038	7214	3	Standard
⌊	**Cr**	**53**	**0.364**	ug/L	0.031	8	50	554	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	28900	2	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	71	51	36	32	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.001	16	25	13	15	KED
|	**Zn**	**66**	**-0.024**	ug/L	0.036	153	36	26	67	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.016	184	6	6	17	KED
⌊	**As**	**75**	**0.009**	ug/L	0.003	36	2	4	15	KED
	Y	**89**		ug/L			38752	34249	3	Standard
	Kr	**83**		ug/L			40	29	24	Standard
⌈>	**In-1**	**115**		ug/L			6124	5750	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.009	511	4	3	56	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.007	1391	3	3	102	KED
⌈>	**In**	**115**		ug/L			412702	368942	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	58	17	40	37	Standard
⌈>	**Tb**	**159**		ug/L			165777	159010	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	89	350	368	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:15:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23953	4	Standard
⌈>	**Sc**	**45**		ug/L				443281	1	Standard
|	**Cr**	**52**		ug/L				7163	2	Standard
⌊	**Cr**	**53**		ug/L				487	7	Standard
⌈>	**Ge**	**72**		ug/L				28284	0	KED
|	**Cu**	**63**		ug/L				33	17	KED
|	**Cu**	**65**		ug/L				11	60	KED
|	**Zn**	**66**		ug/L				33	8	KED
|	**Zn**	**67**		ug/L				6	62	KED
⌊	**As**	**75**		ug/L				2	0	KED
	Y	**89**		ug/L				34497	2	Standard
	Kr	**83**		ug/L				33	8	Standard
⌈>	**In-1**	**115**		ug/L				5536	3	KED
|	**Cd**	**111**		ug/L				4	107	KED
⌊	**Cd**	**114**		ug/L				6	129	KED
⌈>	**In**	**115**		ug/L				370942	2	Standard
⌊	**Ag**	**107**		ug/L				18	51	Standard
⌈>	**Tb**	**159**		ug/L				161944	3	Standard
⌊	**Pb**	**208**		ug/L				380	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:20:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23823	6	Standard
⌈>	**Sc**	**45**		ug/L			443281	457972	4	Standard
|	**Cr**	**52**	**43.059**	ug/L	0.364	0	7163	542248	3	Standard
⌊	**Cr**	**53**	**42.527**	ug/L	0.121	0	487	61452	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	28052	2	KED
|	**Cu**	**63**	**49.368**	ug/L	1.094	2	33	184033	2	KED
|	**Cu**	**65**	**47.907**	ug/L	1.398	2	11	90672	0	KED
|	**Zn**	**66**	**49.389**	ug/L	0.984	1	33	22904	2	KED
|	**Zn**	**67**	**49.684**	ug/L	1.707	3	6	3756	1	KED
⌊	**As**	**75**	**49.256**	ug/L	1.063	2	2	11121	0	KED
	Y	**89**		ug/L			34497	36275	2	Standard
	Kr	**83**		ug/L			33	35	34	Standard
⌈>	**In-1**	**115**		ug/L			5536	5491	2	KED
|	**Cd**	**111**	**49.085**	ug/L	1.079	2	4	9749	1	KED
⌊	**Cd**	**114**	**50.502**	ug/L	0.827	1	6	25592	1	KED
⌈>	**In**	**115**		ug/L			370942	367831	2	Standard
⌊	**Ag**	**107**	**49.011**	ug/L	1.052	2	18	586941	2	Standard
⌈>	**Tb**	**159**		ug/L			161944	163763	1	Standard
⌊	**Pb**	**208**	**51.969**	ug/L	0.843	1	380	4110823	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:27:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23985	3	Standard
⌈>	**Sc**	**45**		ug/L			443281	435790	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.004	87	7163	6989	2	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.015	31	487	416	5	Standard
⌈>	**Ge**	**72**		ug/L			28284	28183	2	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	135	33	37	17	KED
|	**Cu**	**65**	**0.001**	ug/L	0.005	440	11	13	65	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.007	128	33	31	12	KED
|	**Zn**	**67**	**0.066**	ug/L	0.087	133	6	11	60	KED
⌊	**As**	**75**	**0.006**	ug/L	0.008	120	2	3	45	KED
	Y	**89**		ug/L			34497	34563	2	Standard
	Kr	**83**		ug/L			33	38	18	Standard
⌈>	**In-1**	**115**		ug/L			5536	5562	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	121	4	3	45	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	105	KED
⌈>	**In**	**115**		ug/L			370942	361618	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	57	18	34	28	Standard
⌈>	**Tb**	**159**		ug/L			161944	156559	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	322	380	358	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 07:31:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32368	2	Standard
⌈>	**Sc**	**45**		ug/L			443281	546623	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.012	3	7163	14164	2	Standard
⌊	**Cr**	**53**	**0.388**	ug/L	0.008	2	487	1265	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26609	2	KED
|	**Cu**	**63**	**0.390**	ug/L	0.026	6	33	1410	7	KED
|	**Cu**	**65**	**0.375**	ug/L	0.008	2	11	683	1	KED
|	**Zn**	**66**	**4.759**	ug/L	0.218	4	33	2121	2	KED
|	**Zn**	**67**	**5.219**	ug/L	0.327	6	6	379	5	KED
⌊	**As**	**75**	**0.789**	ug/L	0.033	4	2	171	4	KED
	Y	**89**		ug/L			34497	42005	1	Standard
	Kr	**83**		ug/L			33	32	21	Standard
⌈>	**In-1**	**115**		ug/L			5536	5208	2	KED
|	**Cd**	**111**	**0.033**	ug/L	0.036	106	4	10	63	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.052	126	6	26	94	KED
⌈>	**In**	**115**		ug/L			370942	353505	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	15	18	74	12	Standard
⌈>	**Tb**	**159**		ug/L			161944	154792	1	Standard
⌊	**Pb**	**208**	**0.225**	ug/L	0.004	1	380	17208	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 07:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	34681	2	Standard
⌈>	**Sc**	**45**		ug/L			443281	547793	2	Standard
|	**Cr**	**52**	**0.346**	ug/L	0.018	5	7163	13991	1	Standard
⌊	**Cr**	**53**	**0.376**	ug/L	0.020	5	487	1246	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	26586	0	KED
|	**Cu**	**63**	**0.085**	ug/L	0.008	9	33	332	7	KED
|	**Cu**	**65**	**0.093**	ug/L	0.008	8	11	177	7	KED
|	**Zn**	**66**	**0.616**	ug/L	0.002	0	33	302	0	KED
|	**Zn**	**67**	**0.972**	ug/L	0.185	19	6	75	17	KED
⌊	**As**	**75**	**40.903**	ug/L	0.639	1	2	8755	0	KED
	Y	**89**		ug/L			34497	56833	3	Standard
	Kr	**83**		ug/L			33	43	31	Standard
⌈>	**In-1**	**115**		ug/L			5536	5061	1	KED
|	**Cd**	**111**	**0.023**	ug/L	0.047	204	4	8	103	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.038	236	6	13	128	KED
⌈>	**In**	**115**		ug/L			370942	354300	2	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.003	61	18	81	49	Standard
⌈>	**Tb**	**159**		ug/L			161944	154731	1	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.004	22	380	1782	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:40:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23953	38975	5	Standard
> Sc	45		ug/L			443281	600053	3	Standard
Cr	52	0.158	ug/L	0.011	7	7163	12262	2	Standard
Cr	53	0.223	ug/L	0.010	4	487	1079	3	Standard
> Ge	72		ug/L			28284	25951	1	KED
Cu	63	0.081	ug/L	0.011	13	33	309	12	KED
Cu	65	0.076	ug/L	0.015	19	11	143	19	KED
Zn	66	0.845	ug/L	0.080	9	33	393	9	KED
Zn	67	1.434	ug/L	0.338	23	6	106	22	KED
As	75	1.392	ug/L	0.082	5	2	293	6	KED
Y	89		ug/L			34497	41556	1	Standard
Kr	83		ug/L			33	31	27	Standard
> In-1	115		ug/L			5536	5022	3	KED
Cd	111	-0.005	ug/L	0.006	137	4	3	34	KED
Cd	114	-0.007	ug/L	0.006	80	6	2	94	KED
> In	115		ug/L			370942	343665	0	Standard
Ag	107	0.001	ug/L	0.000	58	18	22	14	Standard
> Tb	159		ug/L			161944	152798	1	Standard
Pb	208	0.005	ug/L	0.000	4	380	755	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:45:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32947	4	Standard
⌈>	**Sc**	**45**		ug/L			443281	523130	1	Standard
|	**Cr**	**52**	**3.049**	ug/L	0.019	0	7163	51723	0	Standard
⌊	**Cr**	**53**	**2.997**	ug/L	0.101	3	487	5480	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26198	1	KED
|	**Cu**	**63**	**0.207**	ug/L	0.013	6	33	751	6	KED
|	**Cu**	**65**	**0.197**	ug/L	0.016	8	11	359	6	KED
|	**Zn**	**66**	**0.798**	ug/L	0.056	6	33	376	6	KED
|	**Zn**	**67**	**1.112**	ug/L	0.183	16	6	84	16	KED
⌊	**As**	**75**	**1.668**	ug/L	0.095	5	2	353	6	KED
	Y	**89**		ug/L			34497	35978	1	Standard
	Kr	**83**		ug/L			33	37	20	Standard
⌈>	**In-1**	**115**		ug/L			5536	5284	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.009	119	4	2	57	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	37	6	1	126	KED
⌈>	**In**	**115**		ug/L			370942	365163	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	264	18	20	28	Standard
⌈>	**Tb**	**159**		ug/L			161944	158726	1	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.001	7	380	1262	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:49:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	34191	0	Standard
⌈>	**Sc**	**45**		ug/L			443281	516002	2	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.011	179	7163	8248	1	Standard
⌊	**Cr**	**53**	**0.032**	ug/L	0.005	15	487	619	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25749	0	KED
|	**Cu**	**63**	**0.378**	ug/L	0.009	2	33	1324	2	KED
|	**Cu**	**65**	**0.373**	ug/L	0.016	4	11	659	4	KED
|	**Zn**	**66**	**1.026**	ug/L	0.143	13	33	467	13	KED
|	**Zn**	**67**	**1.694**	ug/L	0.044	2	6	123	2	KED
⌊	**As**	**75**	**1.550**	ug/L	0.094	6	2	323	5	KED
	Y	**89**		ug/L			34497	36548	0	Standard
	Kr	**83**		ug/L			33	38	5	Standard
⌈>	**In-1**	**115**		ug/L			5536	4911	2	KED
|	**Cd**	**111**	**0.028**	ug/L	0.014	50	4	8	26	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.005	42	6	10	17	KED
⌈>	**In**	**115**		ug/L			370942	370348	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	579	18	19	39	Standard
⌈>	**Tb**	**159**		ug/L			161944	160625	1	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	9	380	2387	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:53:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23953	35272	2	Standard
> Sc	45		ug/L			443281	555008	1	Standard
Cr	52	1.088	ug/L	0.016	1	7163	25353	2	Standard
Cr	53	1.102	ug/L	0.017	1	487	2524	0	Standard
> Ge	72		ug/L			28284	26216	2	KED
Cu	63	0.672	ug/L	0.029	4	33	2370	3	KED
Cu	65	0.645	ug/L	0.018	2	11	1151	2	KED
Zn	66	1.342	ug/L	0.058	4	33	612	4	KED
Zn	67	2.072	ug/L	0.217	10	6	152	12	KED
As	75	1.109	ug/L	0.036	3	2	236	1	KED
Y	89		ug/L			34497	35884	0	Standard
Kr	83		ug/L			33	29	39	Standard
> In-1	115		ug/L			5536	5217	0	KED
Cd	111	0.001	ug/L	0.015	1144	4	4	65	KED
Cd	114	-0.005	ug/L	0.006	113	6	4	72	KED
> In	115		ug/L			370942	366141	1	Standard
Ag	107	0.008	ug/L	0.001	9	18	116	8	Standard
> Tb	159		ug/L			161944	158946	1	Standard
Pb	208	0.018	ug/L	0.001	3	380	1760	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:58:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	36798	3	Standard
⌈>	**Sc**	**45**		ug/L			443281	544050	2	Standard
|	**Cr**	**52**	**-0.054**	ug/L	0.011	20	7163	7999	2	Standard
⌊	**Cr**	**53**	**-0.025**	ug/L	0.011	43	487	556	6	Standard
⌈>	**Ge**	**72**		ug/L			28284	26708	0	KED
|	**Cu**	**63**	**0.838**	ug/L	0.016	1	33	3003	0	KED
|	**Cu**	**65**	**0.846**	ug/L	0.014	1	11	1535	1	KED
|	**Zn**	**66**	**0.633**	ug/L	0.066	10	33	311	10	KED
|	**Zn**	**67**	**1.047**	ug/L	0.035	3	6	81	2	KED
⌊	**As**	**75**	**1.910**	ug/L	0.048	2	2	412	1	KED
	Y	**89**		ug/L			34497	36725	2	Standard
	Kr	**83**		ug/L			33	29	3	Standard
⌈>	**In-1**	**115**		ug/L			5536	5148	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	341	4	3	25	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	117	6	4	46	KED
⌈>	**In**	**115**		ug/L			370942	365824	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	338	18	22	71	Standard
⌈>	**Tb**	**159**		ug/L			161944	160908	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	14	380	956	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:02:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	33011	2	Standard
⌈>	**Sc**	**45**		ug/L			443281	509288	2	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.002	69	7163	8181	2	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.020	105	487	530	8	Standard
⌈>	**Ge**	**72**		ug/L			28284	26402	2	KED
|	**Cu**	**63**	**0.237**	ug/L	0.027	11	33	859	8	KED
|	**Cu**	**65**	**0.242**	ug/L	0.021	8	11	441	10	KED
|	**Zn**	**66**	**1.050**	ug/L	0.024	2	33	488	0	KED
|	**Zn**	**67**	**1.334**	ug/L	0.162	12	6	100	14	KED
⌊	**As**	**75**	**4.736**	ug/L	0.192	4	2	1007	1	KED
	Y	**89**		ug/L			34497	35818	2	Standard
	Kr	**83**		ug/L			33	32	10	Standard
⌈>	**In-1**	**115**		ug/L			5536	5114	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	162	4	3	31	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.000	1	6	3	1	KED
⌈>	**In**	**115**		ug/L			370942	371382	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	185	18	14	52	Standard
⌈>	**Tb**	**159**		ug/L			161944	160844	0	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.000	0	380	2106	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:06:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	33260	5	Standard
⌈>	**Sc**	**45**		ug/L			443281	520994	3	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.021	4047	7163	8419	0	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.018	446	487	566	7	Standard
⌈>	**Ge**	**72**		ug/L			28284	25960	2	KED
|	**Cu**	**63**	**0.316**	ug/L	0.022	7	33	1118	5	KED
|	**Cu**	**65**	**0.311**	ug/L	0.013	4	11	554	4	KED
|	**Zn**	**66**	**0.932**	ug/L	0.103	11	33	430	10	KED
|	**Zn**	**67**	**1.015**	ug/L	0.185	18	6	76	17	KED
⌊	**As**	**75**	**12.863**	ug/L	0.161	1	2	2690	1	KED
	Y	**89**		ug/L			34497	35627	1	Standard
	Kr	**83**		ug/L			33	32	15	Standard
⌈>	**In-1**	**115**		ug/L			5536	5174	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	78	4	2	33	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.012	3000	6	6	86	KED
⌈>	**In**	**115**		ug/L			370942	378984	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	67	18	36	33	Standard
⌈>	**Tb**	**159**		ug/L			161944	157933	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	1	380	960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLS
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:11:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24312	3	Standard
⌈>	**Sc**	**45**		ug/L			443281	423709	1	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.018	103	7163	6650	4	Standard
⌊	**Cr**	**53**	**-0.157**	ug/L	0.017	11	487	257	9	Standard
⌈>	**Ge**	**72**		ug/L			28284	26243	0	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.004	200	33	24	55	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	43	11	15	12	KED
|	**Zn**	**66**	**-0.031**	ug/L	0.003	8	33	17	6	KED
|	**Zn**	**67**	**-0.030**	ug/L	0.071	236	6	3	132	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	271	2	2	20	KED
	Y	**89**		ug/L			34497	34766	2	Standard
	Kr	**83**		ug/L			33	34	8	Standard
⌈>	**In-1**	**115**		ug/L			5536	5110	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.010	146	4	2	66	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.006	72	6	2	125	KED
⌈>	**In**	**115**		ug/L			370942	363346	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	31	18	7	43	Standard
⌈>	**Tb**	**159**		ug/L			161944	156921	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	5	380	127	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:15:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23131	6	Standard
⌈>	**Sc**	**45**		ug/L			443281	429452	4	Standard
|	**Cr**	**52**	**43.137**	ug/L	1.283	2	7163	509091	2	Standard
⌊	**Cr**	**53**	**42.532**	ug/L	1.016	2	487	57617	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	26845	1	KED
|	**Cu**	**63**	**48.586**	ug/L	1.204	2	33	173318	0	KED
|	**Cu**	**65**	**47.759**	ug/L	1.161	2	11	86522	1	KED
|	**Zn**	**66**	**48.700**	ug/L	0.829	1	33	21613	1	KED
|	**Zn**	**67**	**49.974**	ug/L	1.175	2	6	3617	2	KED
⌊	**As**	**75**	**48.187**	ug/L	0.497	1	2	10414	0	KED
	Y	**89**		ug/L			34497	35680	2	Standard
	Kr	**83**		ug/L			33	40	7	Standard
⌈>	**In-1**	**115**		ug/L			5536	5483	1	KED
|	**Cd**	**111**	**47.087**	ug/L	0.889	1	4	9340	0	KED
⌊	**Cd**	**114**	**47.831**	ug/L	1.184	2	6	24201	0	KED
⌈>	**In**	**115**		ug/L			370942	373329	1	Standard
⌊	**Ag**	**107**	**48.273**	ug/L	0.181	0	18	586801	1	Standard
⌈>	**Tb**	**159**		ug/L			161944	157225	4	Standard
⌊	**Pb**	**208**	**55.524**	ug/L	1.115	2	380	4214059	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:22:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23153	6	Standard
⌈>	**Sc**	**45**		ug/L			443281	426749	1	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.016	49	7163	6515	2	Standard
⌊	**Cr**	**53**	**-0.183**	ug/L	0.014	7	487	225	9	Standard
⌈>	**Ge**	**72**		ug/L			28284	27054	1	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	206	33	33	13	KED
|	**Cu**	**65**	**0.001**	ug/L	0.001	59	11	12	8	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.016	53	33	19	36	KED
|	**Zn**	**67**	**-0.014**	ug/L	0.031	226	6	5	43	KED
⌊	**As**	**75**	**0.011**	ug/L	0.006	51	2	4	26	KED
	Y	**89**		ug/L			34497	35176	3	Standard
	Kr	**83**		ug/L			33	33	28	Standard
⌈>	**In-1**	**115**		ug/L			5536	5166	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.006	81	4	2	33	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.006	72	6	2	122	KED
⌈>	**In**	**115**		ug/L			370942	374701	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	150	18	24	35	Standard
⌈>	**Tb**	**159**		ug/L			161944	156776	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	60	380	318	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:27:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	30709	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26538	1	KED
⌊	**As**	**75**	**12.441**	ug/L	0.226	1	2	2660	2	KED
	Y	**89**		ug/L			34497	36716	2	Standard
	Kr	**83**		ug/L			33	37	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-08
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 08:30:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32393	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	25720	1	KED
⌊	**As**	**75**	**1.257**	ug/L	0.241	19	2	262	17	KED
	Y	**89**		ug/L			34497	35640	3	Standard
	Kr	**83**		ug/L			33	45	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:34:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	38746	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25415	1	KED
⌊	**As**	**75**	**1.516**	ug/L	0.073	4	2	312	4	KED
	Y	**89**		ug/L			34497	36620	0	Standard
	Kr	**83**		ug/L			33	33	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:37:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	57220	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	25650	1	KED
⌊	**As**	**75**	**3.368**	ug/L	0.033	0	2	697	0	KED
	Y	**89**		ug/L			34497	44371	2	Standard
	Kr	**83**		ug/L			33	36	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-11
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:41:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	39588	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	26578	1	KED
⌊	**As**	**75**	**1.334**	ug/L	0.072	5	2	287	5	KED
	Y	**89**		ug/L			34497	37588	2	Standard
	Kr	**83**		ug/L			33	37	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:46:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25866	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25532	1	KED
⌊	**As**	**75**	**2.267**	ug/L	0.082	3	2	468	4	KED
	Y	**89**		ug/L			34497	41271	3	Standard
	Kr	**83**		ug/L			33	34	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-DUP1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:50:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25448	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	25336	0	KED
⌊	**As**	**75**	**2.271**	ug/L	0.019	0	2	465	1	KED
	Y	**89**		ug/L			34497	40019	5	Standard
	Kr	**83**		ug/L			33	24	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-MS1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:53:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25656	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25138	0	KED
⌊	**As**	**75**	**7.526**	ug/L	0.068	0	2	1525	0	KED
	Y	**89**		ug/L			34497	40825	2	Standard
	Kr	**83**		ug/L			33	40	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-MSD1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:57:14

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25165	4	Standard
>	**Ge**	**72**		ug/L			28284	22831	11	KED
	As	**75**	**8.315**	ug/L	0.579	6	2	1523	6	KED
	Y	**89**		ug/L			34497	41090	2	Standard
	Kr	**83**		ug/L			33	44	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLT
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:00:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21044	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	25195	1	KED
⌊	**As**	**75**	**0.005**	ug/L	0.005	97	2	3	31	KED
	Y	**89**		ug/L			34497	36387	4	Standard
	Kr	**83**		ug/L			33	32	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:04:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	19365	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	25866	2	KED
⌊	**As**	**75**	**48.718**	ug/L	1.079	2	2	10142	0	KED
	Y	**89**		ug/L			34497	35732	3	Standard
	Kr	**83**		ug/L			33	40	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:10:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	19521	6	Standard
⌈>	**Ge**	**72**		ug/L			28284	26236	1	KED
⌊	**As**	**75**	**0.004**	ug/L	0.007	188	2	3	50	KED
	Y	**89**		ug/L			34497	36358	4	Standard
	Kr	**83**		ug/L			33	42	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:13:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32027	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26007	1	KED
⌊	**As**	**75**	**0.890**	ug/L	0.049	5	2	188	4	KED
	Y	**89**		ug/L			34497	40247	1	Standard
	Kr	**83**		ug/L			33	39	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:17:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	30397	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25458	1	KED
⌊	**As**	**75**	**0.855**	ug/L	0.006	0	2	177	2	KED
	Y	**89**		ug/L			34497	38663	1	Standard
	Kr	**83**		ug/L			33	40	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:20:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31369	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25256	1	KED
⌊	**As**	**75**	**0.674**	ug/L	0.013	1	2	139	3	KED
	Y	**89**		ug/L			34497	37846	4	Standard
	Kr	**83**		ug/L			33	38	31	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:24:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31068	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25354	1	KED
⌊	**As**	**75**	**0.819**	ug/L	0.024	2	2	169	3	KED
	Y	**89**		ug/L			34497	38519	3	Standard
	Kr	**83**		ug/L			33	41	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:27:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	28545	3	Standard
>	**Ge**	**72**		ug/L			28284	25863	0	KED
	As	**75**	**1.364**	ug/L	0.085	6	2	286	5	KED
	Y	**89**		ug/L			34497	41558	3	Standard
	Kr	**83**		ug/L			33	36	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-11
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:31:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	30064	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	25241	1	KED
⌊	**As**	**75**	**0.975**	ug/L	0.091	9	2	200	8	KED
	Y	**89**		ug/L			34497	41326	4	Standard
	Kr	**83**		ug/L			33	38	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-13
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:34:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	34038	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25584	0	KED
⌊	**As**	**75**	**0.431**	ug/L	0.040	9	2	90	8	KED
	Y	**89**		ug/L			34497	37964	2	Standard
	Kr	**83**		ug/L			33	34	29	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-15
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:38:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31176	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25211	1	KED
⌊	**As**	**75**	**0.971**	ug/L	0.064	6	2	199	5	KED
	Y	**89**		ug/L			34497	38058	1	Standard
	Kr	**83**		ug/L			33	44	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:41:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	29462	1	Standard
[>	**Ge**	**72**		ug/L			28284	26481	1	KED
[	**As**	**75**	**-0.001**	ug/L	0.002	158	2	1	25	KED
	Y	**89**		ug/L			34497	37168	0	Standard
	Kr	**83**		ug/L			33	33	43	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLU
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:45:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21654	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25096	1	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	97	2	3	39	KED
	Y	**89**		ug/L			34497	35617	3	Standard
	Kr	**83**		ug/L			33	26	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:48:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20136	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	25943	0	KED
⌊	**As**	**75**	**48.782**	ug/L	0.808	1	2	10190	1	KED
	Y	**89**		ug/L			34497	35774	1	Standard
	Kr	**83**		ug/L			33	40	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:55:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20341	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	26117	1	KED
⌊	**As**	**75**	**0.002**	ug/L	0.009	576	2	2	75	KED
	Y	**89**		ug/L			34497	36037	3	Standard
	Kr	**83**		ug/L			33	38	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 09:58:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25634	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25170	1	KED
⌊	**As**	**75**	**1.899**	ug/L	0.067	3	2	386	1	KED
	Y	**89**		ug/L			34497	47569	1	Standard
	Kr	**83**		ug/L			33	41	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:01:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23088	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25083	0	KED
⌊	**As**	**75**	**2.690**	ug/L	0.083	3	2	545	3	KED
	Y	**89**		ug/L			34497	39491	2	Standard
	Kr	**83**		ug/L			33	38	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:05:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24086	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25297	0	KED
⌊	**As**	**75**	**2.679**	ug/L	0.061	2	2	547	2	KED
	Y	**89**		ug/L			34497	39866	2	Standard
	Kr	**83**		ug/L			33	38	43	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:09:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	28092	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24265	2	KED
⌊	**As**	**75**	**3.647**	ug/L	0.045	1	2	714	2	KED
	Y	**89**		ug/L			34497	36517	3	Standard
	Kr	**83**		ug/L			33	48	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-08
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:12:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24129	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24842	1	KED
⌊	**As**	**75**	**1.946**	ug/L	0.065	3	2	391	2	KED
	Y	**89**		ug/L			34497	39994	1	Standard
	Kr	**83**		ug/L			33	40	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 10:16:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	27316	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25745	2	KED
⌊	**As**	**75**	**0.925**	ug/L	0.064	6	2	193	4	KED
	Y	**89**		ug/L			34497	51126	1	Standard
	Kr	**83**		ug/L			33	34	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 10:19:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	26836	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24007	0	KED
⌊	**As**	**75**	**3.754**	ug/L	0.071	1	2	727	2	KED
	Y	**89**		ug/L			34497	40963	1	Standard
	Kr	**83**		ug/L			33	40	28	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:23:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	29306	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25776	3	KED
⌊	**As**	**75**	**0.007**	ug/L	0.005	71	2	3	27	KED
	Y	**89**		ug/L			34497	36300	2	Standard
	Kr	**83**		ug/L			33	45	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:26:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31168	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	23049	3	KED
⌊	**As**	**75**	**12.233**	ug/L	0.459	3	2	2270	1	KED
	Y	**89**		ug/L			34497	42422	0	Standard
	Kr	**83**		ug/L			33	52	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLV
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:30:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	22595	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25718	0	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.001	291	2	2	13	KED
	Y	**89**		ug/L			34497	35195	5	Standard
	Kr	**83**		ug/L			33	40	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVS
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:33:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20551	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24988	0	KED
⌊	**As**	**75**	**50.067**	ug/L	1.149	2	2	10073	2	KED
	Y	**89**		ug/L			34497	35581	2	Standard
	Kr	**83**		ug/L			33	49	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBS
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:39:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20489	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25090	0	KED
⌊	**As**	**75**	**0.002**	ug/L	0.006	279	2	2	47	KED
	Y	**89**		ug/L			34497	35714	2	Standard
	Kr	**83**		ug/L			33	38	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:43:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25632	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	26454	1	KED
⌊	**As**	**75**	**0.006**	ug/L	0.010	169	2	3	61	KED
	Y	**89**		ug/L			34497	41214	3	Standard
	Kr	**83**		ug/L			33	38	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:46:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24859	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	26414	1	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	9977	2	2	49	KED
	Y	**89**		ug/L			34497	38257	2	Standard
	Kr	**83**		ug/L			33	41	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:50:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25074	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	25856	5	KED
⌊	**As**	**75**	**0.004**	ug/L	0.009	256	2	3	71	KED
	Y	**89**		ug/L			34497	40670	1	Standard
	Kr	**83**		ug/L			33	42	28	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:53:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21544	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	24979	2	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.001	29	2	1	21	KED
	Y	**89**		ug/L			34497	33632	2	Standard
	Kr	**83**		ug/L			33	40	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:57:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21498	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	24196	2	KED
⌊	**As**	**75**	**0.000**	ug/L	0.004	2080	2	2	35	KED
	Y	**89**		ug/L			34497	33753	1	Standard
	Kr	**83**		ug/L			33	36	26	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 11:00:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21398	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25308	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.010	2112	2	2	89	KED
	Y	**89**		ug/L			34497	34273	1	Standard
	Kr	**83**		ug/L			33	34	14	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Sequence: SLE0163

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0163-ICV1	Arsenic-75a	50.000	47.6	95.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLE0163-CCV1	Arsenic-75a	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0163-CCV2	Arsenic-75a	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0163-CCV3	Arsenic-75a	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.5	105	ug/L	PA 6020B UCT-KE
SLE0163-CCV4	Arsenic-75a	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Control Limt: +/- 10.00%
Sequence: SLE0163

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0163-CCV4	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLE0163-CCV5	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLE0163-CCV6	Arsenic-75a	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLE0163-CCV7	Arsenic-75a	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.6	103	ug/L	PA 6020B UCT-KE
SLE0163-CCV8	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.6	105	ug/L	PA 6020B UCT-KE
SLE0163-CCV9	Arsenic-75a	50.000	49.0	97.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Control Limt: +/- 10.00%
Sequence: SLE0163

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0163-CCV9	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
SLE0163-CCVA	Arsenic-75a	50.000	48.6	97.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLE0163-CCVB	Arsenic-75a	50.000	49.0	98.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLE0163-CCVC	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.7	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.2	104	ug/L	PA 6020B UCT-KE
SLE0163-CCVD	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.5	105	ug/L	PA 6020B UCT-KE
SLE0163-CCVE	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.8	106	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Control Limt: +/- 10.00%
Sequence: SLE0163

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0163-CCVE	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0163-CCVF	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.7	105	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-ICV1	Arsenic-75a	50.000	48.2	96.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0204-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLE0204-CCV2	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0204-CCV3	Arsenic-75a	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.4	96.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLE0204-CCV4	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCV4	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLE0204-CCV5	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLE0204-CCV6	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SLE0204-CCV7	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLE0204-CCV8	Arsenic-75a	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.2	96.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
SLE0204-CCV9	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.3	101	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCV9	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLE0204-CCVA	Arsenic-75a	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.6	97.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.4	96.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVB	Arsenic-75a	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.5	97.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.7	97.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
SLE0204-CCVC	Arsenic-75a	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVD	Arsenic-75a	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVE	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCVE	Copper-65	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0204-CCVF	Arsenic-75a	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVG	Arsenic-75a	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
SLE0204-CCVH	Arsenic-75a	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
SLE0204-CCVI	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVJ	Arsenic-75a	50.000	49.2	98.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCVJ	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-ICV1	Arsenic-75a	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLE0209-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0209-CCV2	Arsenic-75a	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.9	95.9	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
SLE0209-CCV3	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.4	96.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
SLE0209-CCV4	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCV4	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0209-CCV7	Arsenic-75a	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.1	98.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0209-CCV8	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.1	98.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.8	97.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0209-CCVA	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.0	98.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0209-CCVB	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.3	96.7	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.0	98.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0209-CCVC	Arsenic-75a	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.8	97.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.0	97.9	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVC	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0209-CCVD	Arsenic-75a	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.0	97.9	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.4	96.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.9	99.9	ug/L	PA 6020B UCT-KE
SLE0209-CCVE	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.1	96.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLE0209-CCVF	Arsenic-75a	50.000	49.4	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.6	97.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.2	98.5	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLE0209-CCVG	Arsenic-75a	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLE0209-CCVH	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVH	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE
SLE0209-CCVI	Arsenic-75a	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.7	97.5	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLE0209-CCVJ	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLE0209-CCVK	Arsenic-75a	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0209-CCVL	Arsenic-75a	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLE0209-CCVM	Arsenic-75a	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVM	Copper-63	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.8	97.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLE0209-CCVN	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
SLE0209-CCVO	Arsenic-75a	50.000	49.3	98.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.4	98.7	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	47.9	95.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
SLE0209-CCVP	Arsenic-75a	50.000	48.2	96.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	47.1	94.2	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	47.8	95.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	47.8	95.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
SLE0209-CCVQ	Arsenic-75a	50.000	48.7	97.4	ug/L	PA 6020B UCT-KE
SLE0209-CCVR	Arsenic-75a	50.000	48.8	97.6	ug/L	PA 6020B UCT-KE
SLE0209-CCVS	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/09/23 15:55

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-IBL1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0163-IBL1	Cadmium-111	0.0170	0.03	0.100	ug/L	
SLE0163-IBL1	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0163-IBL1	Copper-63	-0.00900	0.173	0.500	ug/L	
SLE0163-IBL1	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0163-IBL1	Zinc-66	0.0270	2.92	6.00	ug/L	
SLE0163-IBL1	Zinc-67	0.00	0.94	6.00	ug/L	
SLE0163-ICB1	Arsenic-75a	-0.0110	0.0373	0.200	ug/L	
SLE0163-ICB1	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLE0163-ICB1	Cadmium-114	-0.00700	0.04	0.100	ug/L	
SLE0163-ICB1	Copper-63	-0.0100	0.173	0.500	ug/L	
SLE0163-ICB1	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0163-ICB1	Zinc-66	0.0220	2.92	6.00	ug/L	
SLE0163-ICB1	Zinc-67	0.0130	0.94	6.00	ug/L	
SLE0163-CCB1	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0163-CCB1	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0163-CCB1	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0163-CCB1	Copper-63	-0.00700	0.173	0.500	ug/L	
SLE0163-CCB1	Copper-65	-0.00500	0.35	0.500	ug/L	
SLE0163-CCB1	Zinc-66	0.0270	2.92	6.00	ug/L	
SLE0163-CCB1	Zinc-67	0.0130	0.94	6.00	ug/L	
SLE0163-IBL2	Arsenic-75a	0.0880	0.0373	0.200	ug/L	
SLE0163-IBL2	Cadmium-111	0.0100	0.03	0.100	ug/L	
SLE0163-IBL2	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0163-IBL2	Copper-63	0.0890	0.173	0.500	ug/L	
SLE0163-IBL2	Copper-65	0.0860	0.35	0.500	ug/L	
SLE0163-IBL2	Zinc-66	0.158	2.92	6.00	ug/L	
SLE0163-IBL2	Zinc-67	0.222	0.94	6.00	ug/L	
SLE0163-IBL3	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0163-IBL3	Cadmium-111	0.0230	0.03	0.100	ug/L	
SLE0163-IBL3	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0163-IBL3	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0163-IBL3	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0163-IBL3	Zinc-66	0.0840	2.92	6.00	ug/L	
SLE0163-IBL3	Zinc-67	0.132	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/09/23 17:36

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-CCB2	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0163-CCB2	Cadmium-111	0.0160	0.03	0.100	ug/L	
SLE0163-CCB2	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0163-CCB2	Copper-63	-0.00700	0.173	0.500	ug/L	
SLE0163-CCB2	Copper-65	0.00	0.35	0.500	ug/L	
SLE0163-CCB2	Zinc-66	0.0130	2.92	6.00	ug/L	
SLE0163-CCB2	Zinc-67	0.0420	0.94	6.00	ug/L	
SLE0163-IBL4	Arsenic-75a	-0.0100	0.0373	0.200	ug/L	
SLE0163-IBL4	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0163-IBL4	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLE0163-IBL4	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0163-IBL4	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0163-IBL4	Zinc-66	0.145	2.92	6.00	ug/L	
SLE0163-IBL4	Zinc-67	0.239	0.94	6.00	ug/L	
SLE0163-IBL5	Arsenic-75a	-0.0120	0.0373	0.200	ug/L	
SLE0163-IBL5	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0163-IBL5	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLE0163-IBL5	Copper-63	-0.00600	0.173	0.500	ug/L	
SLE0163-IBL5	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0163-IBL5	Zinc-66	0.158	2.92	6.00	ug/L	
SLE0163-IBL5	Zinc-67	0.0930	0.94	6.00	ug/L	
SLE0163-CCB3	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0163-CCB3	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLE0163-CCB3	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0163-CCB3	Copper-63	-0.00900	0.173	0.500	ug/L	
SLE0163-CCB3	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0163-CCB3	Zinc-66	0.0350	2.92	6.00	ug/L	
SLE0163-CCB3	Zinc-67	0.0680	0.94	6.00	ug/L	
SLE0163-CCB4	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0163-CCB4	Cadmium-111	0.0330	0.03	0.100	ug/L	
SLE0163-CCB4	Cadmium-114	0.0340	0.04	0.100	ug/L	
SLE0163-CCB4	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0163-CCB4	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0163-CCB4	Zinc-66	-0.0040	2.92	6.00	ug/L	
SLE0163-CCB4	Zinc-67	0.0320	0.94	6.00	ug/L	
SLE0163-IBL6	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/09/23 19:57

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-IBL6	Cadmium-111	0.00800	0.03	0.100	ug/L	
SLE0163-IBL6	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-IBL6	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0163-IBL6	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0163-IBL6	Zinc-66	0.131	2.92	6.00	ug/L	
SLE0163-IBL6	Zinc-67	0.117	0.94	6.00	ug/L	
SLE0163-CCB5	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0163-CCB5	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLE0163-CCB5	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-CCB5	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0163-CCB5	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0163-CCB5	Zinc-66	0.0010	2.92	6.00	ug/L	
SLE0163-CCB5	Zinc-67	0.0200	0.94	6.00	ug/L	
SLE0163-IBL7	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0163-IBL7	Cadmium-111	0.0130	0.03	0.100	ug/L	
SLE0163-IBL7	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-IBL7	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0163-IBL7	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0163-IBL7	Zinc-66	0.166	2.92	6.00	ug/L	
SLE0163-IBL7	Zinc-67	0.0850	0.94	6.00	ug/L	
SLE0163-CCB6	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0163-CCB6	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0163-CCB6	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0163-CCB6	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0163-CCB6	Copper-65	0.00	0.35	0.500	ug/L	
SLE0163-CCB6	Zinc-66	-0.0050	2.92	6.00	ug/L	
SLE0163-CCB6	Zinc-67	0.0060	0.94	6.00	ug/L	
SLE0163-CCB7	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0163-CCB7	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0163-CCB7	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0163-CCB7	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0163-CCB7	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0163-CCB7	Zinc-66	0.0270	2.92	6.00	ug/L	
SLE0163-CCB7	Zinc-67	0.0320	0.94	6.00	ug/L	
SLE0163-IBL8	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0163-IBL8	Cadmium-111	0.0120	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/09/23 22:22

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-IBL8	Cadmium-114	0.0130	0.04	0.100	ug/L	
SLE0163-IBL8	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0163-IBL8	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0163-IBL8	Zinc-66	0.0260	2.92	6.00	ug/L	
SLE0163-IBL8	Zinc-67	0.0020	0.94	6.00	ug/L	
SLE0163-CCB8	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0163-CCB8	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0163-CCB8	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0163-CCB8	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0163-CCB8	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0163-CCB8	Zinc-66	0.0580	2.92	6.00	ug/L	
SLE0163-CCB8	Zinc-67	0.0410	0.94	6.00	ug/L	
SLE0163-IBL9	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0163-IBL9	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0163-IBL9	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0163-IBL9	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0163-IBL9	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0163-IBL9	Zinc-66	0.0090	2.92	6.00	ug/L	
SLE0163-IBL9	Zinc-67	0.0150	0.94	6.00	ug/L	
SLE0163-CCB9	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0163-CCB9	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0163-CCB9	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0163-CCB9	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0163-CCB9	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0163-CCB9	Zinc-66	0.0440	2.92	6.00	ug/L	
SLE0163-CCB9	Zinc-67	0.0200	0.94	6.00	ug/L	
SLE0163-IBLA	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0163-IBLA	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0163-IBLA	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0163-IBLA	Copper-63	0.0240	0.173	0.500	ug/L	
SLE0163-IBLA	Copper-65	0.0220	0.35	0.500	ug/L	
SLE0163-IBLA	Zinc-66	0.0900	2.92	6.00	ug/L	
SLE0163-IBLA	Zinc-67	0.0190	0.94	6.00	ug/L	
SLE0163-CCBA	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0163-CCBA	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLE0163-CCBA	Cadmium-114	-0.00100	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/10/23 00:23

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-CCBA	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0163-CCBA	Copper-65	0.0130	0.35	0.500	ug/L	
SLE0163-CCBA	Zinc-66	0.0470	2.92	6.00	ug/L	
SLE0163-CCBA	Zinc-67	0.0180	0.94	6.00	ug/L	
SLE0163-IBLB	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0163-IBLB	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLE0163-IBLB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0163-IBLB	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0163-IBLB	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0163-IBLB	Zinc-66	0.0170	2.92	6.00	ug/L	
SLE0163-IBLB	Zinc-67	0.0080	0.94	6.00	ug/L	
SLE0163-CCBB	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0163-CCBB	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0163-CCBB	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-CCBB	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0163-CCBB	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0163-CCBB	Zinc-66	0.0550	2.92	6.00	ug/L	
SLE0163-CCBB	Zinc-67	0.0610	0.94	6.00	ug/L	
SLE0163-IBLC	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0163-IBLC	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0163-IBLC	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0163-IBLC	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0163-IBLC	Copper-65	0.0160	0.35	0.500	ug/L	
SLE0163-IBLC	Zinc-66	0.0150	2.92	6.00	ug/L	
SLE0163-IBLC	Zinc-67	0.0290	0.94	6.00	ug/L	
SLE0163-IBLD	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0163-IBLD	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0163-IBLD	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-IBLD	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0163-IBLD	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0163-IBLD	Zinc-66	0.0070	2.92	6.00	ug/L	
SLE0163-IBLD	Zinc-67	0.0240	0.94	6.00	ug/L	
SLE0163-CCBC	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0163-CCBC	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0163-CCBC	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-CCBC	Copper-63	0.00500	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/10/23 02:12

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-CCBC	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0163-CCBC	Zinc-66	0.0380	2.92	6.00	ug/L	
SLE0163-CCBC	Zinc-67	0.0550	0.94	6.00	ug/L	
SLE0163-IBLE	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0163-IBLE	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0163-IBLE	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0163-IBLE	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0163-IBLE	Copper-65	0.0150	0.35	0.500	ug/L	
SLE0163-IBLE	Zinc-66	0.0460	2.92	6.00	ug/L	
SLE0163-IBLE	Zinc-67	0.0590	0.94	6.00	ug/L	
SLE0163-IBLF	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0163-IBLF	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0163-IBLF	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-IBLF	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0163-IBLF	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0163-IBLF	Zinc-66	0.0130	2.92	6.00	ug/L	
SLE0163-IBLF	Zinc-67	0.0600	0.94	6.00	ug/L	
SLE0163-CCBD	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0163-CCBD	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0163-CCBD	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0163-CCBD	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0163-CCBD	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0163-CCBD	Zinc-66	0.0530	2.92	6.00	ug/L	
SLE0163-CCBD	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0163-IBLG	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0163-IBLG	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0163-IBLG	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0163-IBLG	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0163-IBLG	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0163-IBLG	Zinc-66	-0.0070	2.92	6.00	ug/L	
SLE0163-IBLG	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0163-IBLH	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0163-IBLH	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0163-IBLH	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0163-IBLH	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0163-IBLH	Copper-65	0.00500	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00034
Date Analyzed: 05/10/23 03:55

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0163-IBLH	Zinc-66	-0.0110	2.92	6.00	ug/L	
SLE0163-IBLH	Zinc-67	-0.0240	0.94	6.00	ug/L	
SLE0163-CCBE	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0163-CCBE	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0163-CCBE	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0163-CCBE	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0163-CCBE	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0163-CCBE	Zinc-66	0.0450	2.92	6.00	ug/L	
SLE0163-CCBE	Zinc-67	0.0450	0.94	6.00	ug/L	
SLE0163-IBLI	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0163-IBLI	Cadmium-111	0.0100	0.03	0.100	ug/L	
SLE0163-IBLI	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0163-IBLI	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0163-IBLI	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0163-IBLI	Zinc-66	0.0010	2.92	6.00	ug/L	
SLE0163-IBLI	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLE0163-CCBF	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0163-CCBF	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0163-CCBF	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0163-CCBF	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0163-CCBF	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0163-CCBF	Zinc-66	0.0570	2.92	6.00	ug/L	
SLE0163-CCBF	Zinc-67	0.0730	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 16:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBL1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0204-IBL1	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0204-IBL1	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL1	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0204-IBL1	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0204-IBL1	Zinc-66	0.0070	2.92	6.00	ug/L	
SLE0204-IBL1	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLE0204-ICB1	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0204-ICB1	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-ICB1	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLE0204-ICB1	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0204-ICB1	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0204-ICB1	Zinc-66	0.0200	2.92	6.00	ug/L	
SLE0204-ICB1	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0204-CCB1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0204-CCB1	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0204-CCB1	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-CCB1	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0204-CCB1	Copper-65	-0.00500	0.35	0.500	ug/L	
SLE0204-CCB1	Zinc-66	0.0050	2.92	6.00	ug/L	
SLE0204-CCB1	Zinc-67	0.0230	0.94	6.00	ug/L	
SLE0204-IBL2	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SLE0204-IBL2	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0204-IBL2	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-IBL2	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0204-IBL2	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0204-IBL2	Zinc-66	0.0190	2.92	6.00	ug/L	
SLE0204-IBL2	Zinc-67	0.0310	0.94	6.00	ug/L	
SLE0204-CCB2	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLE0204-CCB2	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0204-CCB2	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-CCB2	Copper-63	0.00	0.173	0.500	ug/L	
SLE0204-CCB2	Copper-65	0.00	0.35	0.500	ug/L	
SLE0204-CCB2	Zinc-66	0.0090	2.92	6.00	ug/L	
SLE0204-CCB2	Zinc-67	-0.0040	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 17:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB3	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0204-CCB3	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0204-CCB3	Cadmium-114	0.0270	0.04	0.100	ug/L	
SLE0204-CCB3	Copper-63	0.00	0.173	0.500	ug/L	
SLE0204-CCB3	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-CCB3	Zinc-66	0.0010	2.92	6.00	ug/L	
SLE0204-CCB3	Zinc-67	-0.0230	0.94	6.00	ug/L	
SLE0204-IBL3	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0204-IBL3	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-IBL3	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL3	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0204-IBL3	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0204-IBL3	Zinc-66	0.0820	2.92	6.00	ug/L	
SLE0204-IBL3	Zinc-67	0.0490	0.94	6.00	ug/L	
SLE0204-CCB4	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0204-CCB4	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0204-CCB4	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0204-CCB4	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0204-CCB4	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0204-CCB4	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLE0204-CCB4	Zinc-67	0.0040	0.94	6.00	ug/L	
SLE0204-IBL4	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0204-IBL4	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0204-IBL4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL4	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0204-IBL4	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0204-IBL4	Zinc-66	0.0700	2.92	6.00	ug/L	
SLE0204-IBL4	Zinc-67	0.0350	0.94	6.00	ug/L	
SLE0204-IBL5	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0204-IBL5	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0204-IBL5	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0204-IBL5	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0204-IBL5	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-IBL5	Zinc-66	0.0530	2.92	6.00	ug/L	
SLE0204-IBL5	Zinc-67	0.0420	0.94	6.00	ug/L	
SLE0204-CCB5	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 19:56

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB5	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0204-CCB5	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB5	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-CCB5	Copper-65	0.00	0.35	0.500	ug/L	
SLE0204-CCB5	Zinc-66	-0.0150	2.92	6.00	ug/L	
SLE0204-CCB5	Zinc-67	0.0150	0.94	6.00	ug/L	
SLE0204-CCB6	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLE0204-CCB6	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0204-CCB6	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB6	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-CCB6	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-CCB6	Zinc-66	-0.0240	2.92	6.00	ug/L	
SLE0204-CCB6	Zinc-67	-0.0910	0.94	6.00	ug/L	
SLE0204-IBL6	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0204-IBL6	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-IBL6	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0204-IBL6	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0204-IBL6	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0204-IBL6	Zinc-66	0.0170	2.92	6.00	ug/L	
SLE0204-IBL6	Zinc-67	-0.0430	0.94	6.00	ug/L	
SLE0204-CCB7	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLE0204-CCB7	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SLE0204-CCB7	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCB7	Copper-63	0.0230	0.173	0.500	ug/L	
SLE0204-CCB7	Copper-65	0.0230	0.35	0.500	ug/L	
SLE0204-CCB7	Zinc-66	-0.0280	2.92	6.00	ug/L	
SLE0204-CCB7	Zinc-67	-0.0330	0.94	6.00	ug/L	
SLE0204-IBL7	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0204-IBL7	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0204-IBL7	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0204-IBL7	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-IBL7	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0204-IBL7	Zinc-66	-0.0450	2.92	6.00	ug/L	
SLE0204-IBL7	Zinc-67	-0.0920	0.94	6.00	ug/L	
SLE0204-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0204-CCB8	Cadmium-111	-0.00900	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 22:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB8	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB8	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-CCB8	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0204-CCB8	Zinc-66	-0.0360	2.92	6.00	ug/L	
SLE0204-CCB8	Zinc-67	-0.0810	0.94	6.00	ug/L	
SLE0204-IBL8	Arsenic-75a	0.0750	0.0373	0.200	ug/L	
SLE0204-IBL8	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0204-IBL8	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-IBL8	Copper-63	0.0820	0.173	0.500	ug/L	
SLE0204-IBL8	Copper-65	0.0820	0.35	0.500	ug/L	
SLE0204-IBL8	Zinc-66	0.206	2.92	6.00	ug/L	
SLE0204-IBL8	Zinc-67	0.0940	0.94	6.00	ug/L	
SLE0204-CCB9	Arsenic-75a	0.0230	0.0373	0.200	ug/L	
SLE0204-CCB9	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-CCB9	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB9	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0204-CCB9	Copper-65	0.0180	0.35	0.500	ug/L	
SLE0204-CCB9	Zinc-66	0.0010	2.92	6.00	ug/L	
SLE0204-CCB9	Zinc-67	-0.0630	0.94	6.00	ug/L	
SLE0204-IBL9	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0204-IBL9	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0204-IBL9	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL9	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0204-IBL9	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0204-IBL9	Zinc-66	-0.0300	2.92	6.00	ug/L	
SLE0204-IBL9	Zinc-67	-0.0670	0.94	6.00	ug/L	
SLE0204-CCBA	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0204-CCBA	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0204-CCBA	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0204-CCBA	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0204-CCBA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0204-CCBA	Zinc-66	-0.0580	2.92	6.00	ug/L	
SLE0204-CCBA	Zinc-67	-0.135	0.94	6.00	ug/L	
SLE0204-IBLA	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0204-IBLA	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0204-IBLA	Cadmium-114	0.00	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 01:08

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBLA	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0204-IBLA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0204-IBLA	Zinc-66	-0.0280	2.92	6.00	ug/L	
SLE0204-IBLA	Zinc-67	-0.109	0.94	6.00	ug/L	
SLE0204-CCBB	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0204-CCBB	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLE0204-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-CCBB	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0204-CCBB	Copper-65	0.0110	0.35	0.500	ug/L	
SLE0204-CCBB	Zinc-66	-0.0550	2.92	6.00	ug/L	
SLE0204-CCBB	Zinc-67	-0.111	0.94	6.00	ug/L	
SLE0204-CCBC	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0204-CCBC	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-CCBC	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCBC	Copper-63	-0.0170	0.173	0.500	ug/L	
SLE0204-CCBC	Copper-65	-0.0240	0.35	0.500	ug/L	
SLE0204-CCBC	Zinc-66	-0.0230	2.92	6.00	ug/L	
SLE0204-CCBC	Zinc-67	-0.0620	0.94	6.00	ug/L	
SLE0204-IBLB	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLB	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-IBLB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-IBLB	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0204-IBLB	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0204-IBLB	Zinc-66	-0.0130	2.92	6.00	ug/L	
SLE0204-IBLB	Zinc-67	-0.0850	0.94	6.00	ug/L	
SLE0204-CCBD	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLE0204-CCBD	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-CCBD	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-CCBD	Copper-63	0.0110	0.173	0.500	ug/L	
SLE0204-CCBD	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0204-CCBD	Zinc-66	-0.0380	2.92	6.00	ug/L	
SLE0204-CCBD	Zinc-67	-0.0870	0.94	6.00	ug/L	
SLE0204-IBLC	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLC	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-IBLC	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-IBLC	Copper-63	-0.0300	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 02:57

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBLC	Copper-65	-0.0360	0.35	0.500	ug/L	
SLE0204-IBLC	Zinc-66	-0.0170	2.92	6.00	ug/L	
SLE0204-IBLC	Zinc-67	-0.107	0.94	6.00	ug/L	
SLE0204-IBLD	Arsenic-75a	-0.00900	0.0373	0.200	ug/L	
SLE0204-IBLD	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0204-IBLD	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0204-IBLD	Copper-63	-0.0310	0.173	0.500	ug/L	
SLE0204-IBLD	Copper-65	-0.0330	0.35	0.500	ug/L	
SLE0204-IBLD	Zinc-66	-0.0130	2.92	6.00	ug/L	
SLE0204-IBLD	Zinc-67	-0.0600	0.94	6.00	ug/L	
SLE0204-CCBE	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0204-CCBE	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0204-CCBE	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0204-CCBE	Copper-63	-0.0350	0.173	0.500	ug/L	
SLE0204-CCBE	Copper-65	-0.0400	0.35	0.500	ug/L	
SLE0204-CCBE	Zinc-66	-0.0710	2.92	6.00	ug/L	
SLE0204-CCBE	Zinc-67	-0.155	0.94	6.00	ug/L	
SLE0204-IBLE	Arsenic-75a	-0.00800	0.0373	0.200	ug/L	
SLE0204-IBLE	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0204-IBLE	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0204-IBLE	Copper-63	-0.0340	0.173	0.500	ug/L	
SLE0204-IBLE	Copper-65	-0.0360	0.35	0.500	ug/L	
SLE0204-IBLE	Zinc-66	-0.0450	2.92	6.00	ug/L	
SLE0204-IBLE	Zinc-67	-0.0590	0.94	6.00	ug/L	
SLE0204-IBLF	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-IBLF	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-IBLF	Copper-63	-0.0350	0.173	0.500	ug/L	
SLE0204-IBLF	Copper-65	-0.0410	0.35	0.500	ug/L	
SLE0204-IBLF	Zinc-66	-0.0640	2.92	6.00	ug/L	
SLE0204-IBLF	Zinc-67	-0.122	0.94	6.00	ug/L	
SLE0204-CCBF	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0204-CCBF	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-CCBF	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCBF	Copper-63	-0.0370	0.173	0.500	ug/L	
SLE0204-CCBF	Copper-65	-0.0380	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 04:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCBF	Zinc-66	-0.0700	2.92	6.00	ug/L	
SLE0204-CCBF	Zinc-67	-0.130	0.94	6.00	ug/L	
SLE0204-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0204-CCBG	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-CCBG	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCBG	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-CCBG	Copper-65	-0.00400	0.35	0.500	ug/L	
SLE0204-CCBG	Zinc-66	-0.0680	2.92	6.00	ug/L	
SLE0204-CCBG	Zinc-67	-0.0590	0.94	6.00	ug/L	
SLE0204-IBLG	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLG	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0204-IBLG	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-IBLG	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0204-IBLG	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0204-IBLG	Zinc-66	-0.0550	2.92	6.00	ug/L	
SLE0204-IBLG	Zinc-67	-0.0180	0.94	6.00	ug/L	
SLE0204-CCBH	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0204-CCBH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-CCBH	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCBH	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0204-CCBH	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0204-CCBH	Zinc-66	-0.0510	2.92	6.00	ug/L	
SLE0204-CCBH	Zinc-67	-0.0820	0.94	6.00	ug/L	
SLE0204-IBLH	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0204-IBLH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-IBLH	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-IBLH	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-IBLH	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-IBLH	Zinc-66	-0.0600	2.92	6.00	ug/L	
SLE0204-IBLH	Zinc-67	-0.0820	0.94	6.00	ug/L	
SLE0204-CCBI	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0204-CCBI	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0204-CCBI	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCBI	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-CCBI	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0204-CCBI	Zinc-66	-0.0640	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 06:42

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCBI	Zinc-67	-0.0510	0.94	6.00	ug/L	
SLE0204-IBLI	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0204-IBLI	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0204-IBLI	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-IBLI	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-IBLI	Copper-65	-0.00500	0.35	0.500	ug/L	
SLE0204-IBLI	Zinc-66	-0.0540	2.92	6.00	ug/L	
SLE0204-IBLI	Zinc-67	-0.0640	0.94	6.00	ug/L	
SLE0204-IBLJ	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLJ	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLE0204-IBLJ	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-IBLJ	Copper-63	-0.00600	0.173	0.500	ug/L	
SLE0204-IBLJ	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0204-IBLJ	Zinc-66	-0.0490	2.92	6.00	ug/L	
SLE0204-IBLJ	Zinc-67	-0.0310	0.94	6.00	ug/L	
SLE0204-CCBJ	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0204-CCBJ	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0204-CCBJ	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCBJ	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0204-CCBJ	Copper-65	0.0120	0.35	0.500	ug/L	
SLE0204-CCBJ	Zinc-66	-0.0420	2.92	6.00	ug/L	
SLE0204-CCBJ	Zinc-67	-0.0330	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 14:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBL1	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SLE0209-IBL1	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLE0209-IBL1	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-IBL1	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0209-IBL1	Copper-65	-0.00400	0.35	0.500	ug/L	
SLE0209-IBL1	Zinc-66	-0.0160	2.92	6.00	ug/L	
SLE0209-IBL1	Zinc-67	-0.0340	0.94	6.00	ug/L	
SLE0209-ICB1	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0209-ICB1	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0209-ICB1	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0209-ICB1	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0209-ICB1	Copper-65	-0.00800	0.35	0.500	ug/L	
SLE0209-ICB1	Zinc-66	0.00	2.92	6.00	ug/L	
SLE0209-ICB1	Zinc-67	-0.0510	0.94	6.00	ug/L	
SLE0209-CCB1	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLE0209-CCB1	Cadmium-111	-0.0130	0.03	0.100	ug/L	
SLE0209-CCB1	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLE0209-CCB1	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0209-CCB1	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0209-CCB1	Zinc-66	0.0110	2.92	6.00	ug/L	
SLE0209-CCB1	Zinc-67	0.0050	0.94	6.00	ug/L	
SLE0209-IBL2	Arsenic-75a	0.0350	0.0373	0.200	ug/L	
SLE0209-IBL2	Cadmium-111	0.344	0.03	0.100	ug/L	
SLE0209-IBL2	Cadmium-114	0.415	0.04	0.100	ug/L	
SLE0209-IBL2	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0209-IBL2	Copper-65	0.00800	0.35	0.500	ug/L	
SLE0209-IBL2	Zinc-66	0.0670	2.92	6.00	ug/L	
SLE0209-IBL2	Zinc-67	0.0300	0.94	6.00	ug/L	
SLE0209-IBL3	Arsenic-75a	0.0170	0.0373	0.200	ug/L	
SLE0209-IBL3	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0209-IBL3	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0209-IBL3	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0209-IBL3	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0209-IBL3	Zinc-66	0.0610	2.92	6.00	ug/L	
SLE0209-IBL3	Zinc-67	0.110	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 16:09

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCB2	Arsenic-75a	0.0160	0.0373	0.200	ug/L	
SLE0209-CCB2	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0209-CCB2	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0209-CCB2	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0209-CCB2	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0209-CCB2	Zinc-66	0.0470	2.92	6.00	ug/L	
SLE0209-CCB2	Zinc-67	0.0570	0.94	6.00	ug/L	
SLE0209-CCB3	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0209-CCB3	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLE0209-CCB3	Cadmium-114	-0.0180	0.04	0.100	ug/L	
SLE0209-CCB3	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0209-CCB3	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0209-CCB3	Zinc-66	-0.0050	2.92	6.00	ug/L	
SLE0209-CCB3	Zinc-67	0.0070	0.94	6.00	ug/L	
SLE0209-IBL4	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0209-IBL4	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0209-IBL4	Cadmium-114	-0.0130	0.04	0.100	ug/L	
SLE0209-IBL4	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0209-IBL4	Copper-65	0.00800	0.35	0.500	ug/L	
SLE0209-IBL4	Zinc-66	0.104	2.92	6.00	ug/L	
SLE0209-IBL4	Zinc-67	0.124	0.94	6.00	ug/L	
SLE0209-IBL5	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0209-IBL5	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLE0209-IBL5	Cadmium-114	-0.0190	0.04	0.100	ug/L	
SLE0209-IBL5	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0209-IBL5	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0209-IBL5	Zinc-66	0.101	2.92	6.00	ug/L	
SLE0209-IBL5	Zinc-67	0.145	0.94	6.00	ug/L	
SLE0209-CCB4	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-CCB4	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0209-CCB4	Cadmium-114	-0.0170	0.04	0.100	ug/L	
SLE0209-CCB4	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0209-CCB4	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0209-CCB4	Zinc-66	0.0110	2.92	6.00	ug/L	
SLE0209-CCB4	Zinc-67	0.0020	0.94	6.00	ug/L	
SLE0209-IBL9	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 18:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBL9	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0209-IBL9	Cadmium-114	-0.0150	0.04	0.100	ug/L	
SLE0209-IBL9	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0209-IBL9	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0209-IBL9	Zinc-66	0.0350	2.92	6.00	ug/L	
SLE0209-IBL9	Zinc-67	0.0400	0.94	6.00	ug/L	
SLE0209-IBLA	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0209-IBLA	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0209-IBLA	Cadmium-114	-0.0180	0.04	0.100	ug/L	
SLE0209-IBLA	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0209-IBLA	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0209-IBLA	Zinc-66	0.0500	2.92	6.00	ug/L	
SLE0209-IBLA	Zinc-67	0.0070	0.94	6.00	ug/L	
SLE0209-CCB7	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0209-CCB7	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0209-CCB7	Cadmium-114	-0.0190	0.04	0.100	ug/L	
SLE0209-CCB7	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0209-CCB7	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0209-CCB7	Zinc-66	0.0200	2.92	6.00	ug/L	
SLE0209-CCB7	Zinc-67	0.0230	0.94	6.00	ug/L	
SLE0209-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0209-CCB8	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0209-CCB8	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0209-CCB8	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0209-CCB8	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0209-CCB8	Zinc-66	-0.0080	2.92	6.00	ug/L	
SLE0209-CCB8	Zinc-67	-0.0080	0.94	6.00	ug/L	
SLE0209-CCBA	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0209-CCBA	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0209-CCBA	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0209-CCBA	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0209-CCBA	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0209-CCBA	Zinc-66	0.0100	2.92	6.00	ug/L	
SLE0209-CCBA	Zinc-67	0.0220	0.94	6.00	ug/L	
SLE0209-IBLC	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0209-IBLC	Cadmium-111	0.00	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 20:25

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLC	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLE0209-IBLC	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0209-IBLC	Copper-65	0.00	0.35	0.500	ug/L	
SLE0209-IBLC	Zinc-66	0.0430	2.92	6.00	ug/L	
SLE0209-IBLC	Zinc-67	0.0860	0.94	6.00	ug/L	
SLE0209-IBLD	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0209-IBLD	Cadmium-111	0.0530	0.03	0.100	ug/L	
SLE0209-IBLD	Cadmium-114	0.0570	0.04	0.100	ug/L	
SLE0209-IBLD	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0209-IBLD	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0209-IBLD	Zinc-66	0.0580	2.92	6.00	ug/L	
SLE0209-IBLD	Zinc-67	0.0800	0.94	6.00	ug/L	
SLE0209-CCBB	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0209-CCBB	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0209-CCBB	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0209-CCBB	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0209-CCBB	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0209-CCBB	Zinc-66	0.0200	2.92	6.00	ug/L	
SLE0209-CCBB	Zinc-67	0.0410	0.94	6.00	ug/L	
SLE0209-IBLE	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0209-IBLE	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0209-IBLE	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0209-IBLE	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0209-IBLE	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0209-IBLE	Zinc-66	0.0320	2.92	6.00	ug/L	
SLE0209-IBLE	Zinc-67	0.0610	0.94	6.00	ug/L	
SLE0209-IBLF	Arsenic-75a	0.0290	0.0373	0.200	ug/L	
SLE0209-IBLF	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0209-IBLF	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLE0209-IBLF	Copper-63	0.179	0.173	0.500	ug/L	
SLE0209-IBLF	Copper-65	0.164	0.35	0.500	ug/L	
SLE0209-IBLF	Zinc-66	0.164	2.92	6.00	ug/L	
SLE0209-IBLF	Zinc-67	0.135	0.94	6.00	ug/L	
SLE0209-CCBC	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0209-CCBC	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0209-CCBC	Cadmium-114	0.00700	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 21:58

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBC	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0209-CCBC	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0209-CCBC	Zinc-66	0.0270	2.92	6.00	ug/L	
SLE0209-CCBC	Zinc-67	0.0070	0.94	6.00	ug/L	
SLE0209-CCBD	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0209-CCBD	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0209-CCBD	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-CCBD	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0209-CCBD	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0209-CCBD	Zinc-66	0.0300	2.92	6.00	ug/L	
SLE0209-CCBD	Zinc-67	0.0230	0.94	6.00	ug/L	
SLE0209-IBLG	Arsenic-75a	-0.00800	0.0373	0.200	ug/L	
SLE0209-IBLG	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0209-IBLG	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0209-IBLG	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0209-IBLG	Copper-65	0.0170	0.35	0.500	ug/L	
SLE0209-IBLG	Zinc-66	0.0300	2.92	6.00	ug/L	
SLE0209-IBLG	Zinc-67	0.0300	0.94	6.00	ug/L	
SLE0209-CCBE	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0209-CCBE	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0209-CCBE	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLE0209-CCBE	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0209-CCBE	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0209-CCBE	Zinc-66	0.0260	2.92	6.00	ug/L	
SLE0209-CCBE	Zinc-67	0.0380	0.94	6.00	ug/L	
SLE0209-IBLH	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0209-IBLH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0209-IBLH	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0209-IBLH	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0209-IBLH	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0209-IBLH	Zinc-66	-0.0040	2.92	6.00	ug/L	
SLE0209-IBLH	Zinc-67	-0.0140	0.94	6.00	ug/L	
SLE0209-CCBF	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0209-CCBF	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0209-CCBF	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLE0209-CCBF	Copper-63	0.00100	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 00:09

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBF	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0209-CCBF	Zinc-66	0.0160	2.92	6.00	ug/L	
SLE0209-CCBF	Zinc-67	0.0570	0.94	6.00	ug/L	
SLE0209-IBLI	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0209-IBLI	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0209-IBLI	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0209-IBLI	Copper-63	0.0530	0.173	0.500	ug/L	
SLE0209-IBLI	Copper-65	0.0600	0.35	0.500	ug/L	
SLE0209-IBLI	Zinc-66	0.0320	2.92	6.00	ug/L	
SLE0209-IBLI	Zinc-67	0.0250	0.94	6.00	ug/L	
SLE0209-CCBG	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-CCBG	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLE0209-CCBG	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-CCBG	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0209-CCBG	Copper-65	0.0190	0.35	0.500	ug/L	
SLE0209-CCBG	Zinc-66	0.0130	2.92	6.00	ug/L	
SLE0209-CCBG	Zinc-67	0.0100	0.94	6.00	ug/L	
SLE0209-IBLJ	Arsenic-75a	0.0180	0.0373	0.200	ug/L	
SLE0209-IBLJ	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0209-IBLJ	Cadmium-114	0.00900	0.04	0.100	ug/L	
SLE0209-IBLJ	Copper-63	0.0530	0.173	0.500	ug/L	
SLE0209-IBLJ	Copper-65	0.0490	0.35	0.500	ug/L	
SLE0209-IBLJ	Zinc-66	0.0430	2.92	6.00	ug/L	
SLE0209-IBLJ	Zinc-67	0.0130	0.94	6.00	ug/L	
SLE0209-CCBH	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0209-CCBH	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0209-CCBH	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0209-CCBH	Copper-63	0.0320	0.173	0.500	ug/L	
SLE0209-CCBH	Copper-65	0.0290	0.35	0.500	ug/L	
SLE0209-CCBH	Zinc-66	0.0250	2.92	6.00	ug/L	
SLE0209-CCBH	Zinc-67	-0.0210	0.94	6.00	ug/L	
SLE0209-IBLK	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0209-IBLK	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0209-IBLK	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-IBLK	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0209-IBLK	Copper-65	0.0130	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 02:36

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLK	Zinc-66	0.0140	2.92	6.00	ug/L	
SLE0209-IBLK	Zinc-67	0.0370	0.94	6.00	ug/L	
SLE0209-IBLL	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0209-IBLL	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0209-IBLL	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0209-IBLL	Copper-63	0.0170	0.173	0.500	ug/L	
SLE0209-IBLL	Copper-65	0.0190	0.35	0.500	ug/L	
SLE0209-IBLL	Zinc-66	0.0140	2.92	6.00	ug/L	
SLE0209-IBLL	Zinc-67	-0.0210	0.94	6.00	ug/L	
SLE0209-CCBI	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0209-CCBI	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0209-CCBI	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-CCBI	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0209-CCBI	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0209-CCBI	Zinc-66	0.0560	2.92	6.00	ug/L	
SLE0209-CCBI	Zinc-67	0.0040	0.94	6.00	ug/L	
SLE0209-CCBJ	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-CCBJ	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0209-CCBJ	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0209-CCBJ	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0209-CCBJ	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0209-CCBJ	Zinc-66	-0.0070	2.92	6.00	ug/L	
SLE0209-CCBJ	Zinc-67	-0.0100	0.94	6.00	ug/L	
SLE0209-IBLM	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-IBLM	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0209-IBLM	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0209-IBLM	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0209-IBLM	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0209-IBLM	Zinc-66	-0.0200	2.92	6.00	ug/L	
SLE0209-IBLM	Zinc-67	-0.0580	0.94	6.00	ug/L	
SLE0209-IBLN	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0209-IBLN	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SLE0209-IBLN	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0209-IBLN	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0209-IBLN	Copper-65	-0.00700	0.35	0.500	ug/L	
SLE0209-IBLN	Zinc-66	-0.0230	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 04:12

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLN	Zinc-67	-0.0330	0.94	6.00	ug/L	
SLE0209-CCBK	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-CCBK	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0209-CCBK	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLE0209-CCBK	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0209-CCBK	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0209-CCBK	Zinc-66	-0.0220	2.92	6.00	ug/L	
SLE0209-CCBK	Zinc-67	0.0100	0.94	6.00	ug/L	
SLE0209-IBLO	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0209-IBLO	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0209-IBLO	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0209-IBLO	Copper-63	-0.00800	0.173	0.500	ug/L	
SLE0209-IBLO	Copper-65	-0.00800	0.35	0.500	ug/L	
SLE0209-IBLO	Zinc-66	-0.0330	2.92	6.00	ug/L	
SLE0209-IBLO	Zinc-67	-0.0040	0.94	6.00	ug/L	
SLE0209-CCBL	Arsenic-75a	0.0280	0.0373	0.200	ug/L	
SLE0209-CCBL	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLE0209-CCBL	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0209-CCBL	Copper-63	0.0190	0.173	0.500	ug/L	
SLE0209-CCBL	Copper-65	0.0120	0.35	0.500	ug/L	
SLE0209-CCBL	Zinc-66	0.0360	2.92	6.00	ug/L	
SLE0209-CCBL	Zinc-67	-0.0230	0.94	6.00	ug/L	
SLE0209-IBLP	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-IBLP	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLE0209-IBLP	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0209-IBLP	Copper-63	-0.00600	0.173	0.500	ug/L	
SLE0209-IBLP	Copper-65	-0.00700	0.35	0.500	ug/L	
SLE0209-IBLP	Zinc-66	-0.0110	2.92	6.00	ug/L	
SLE0209-IBLP	Zinc-67	-0.0400	0.94	6.00	ug/L	
SLE0209-CCBM	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0209-CCBM	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0209-CCBM	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-CCBM	Copper-63	-0.00700	0.173	0.500	ug/L	
SLE0209-CCBM	Copper-65	-0.00700	0.35	0.500	ug/L	
SLE0209-CCBM	Zinc-66	-0.0170	2.92	6.00	ug/L	
SLE0209-CCBM	Zinc-67	0.0240	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 06:37

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLQ	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0209-IBLQ	Cadmium-111	-0.0140	0.03	0.100	ug/L	
SLE0209-IBLQ	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0209-IBLQ	Copper-63	-0.00700	0.173	0.500	ug/L	
SLE0209-IBLQ	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0209-IBLQ	Zinc-66	-0.0450	2.92	6.00	ug/L	
SLE0209-IBLQ	Zinc-67	-0.0490	0.94	6.00	ug/L	
SLE0209-IBLR	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-IBLR	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0209-IBLR	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0209-IBLR	Copper-63	-0.00300	0.173	0.500	ug/L	
SLE0209-IBLR	Copper-65	-0.00500	0.35	0.500	ug/L	
SLE0209-IBLR	Zinc-66	-0.0030	2.92	6.00	ug/L	
SLE0209-IBLR	Zinc-67	-0.0130	0.94	6.00	ug/L	
SLE0209-CCBN	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SLE0209-CCBN	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0209-CCBN	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0209-CCBN	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0209-CCBN	Copper-65	-0.00600	0.35	0.500	ug/L	
SLE0209-CCBN	Zinc-66	-0.0240	2.92	6.00	ug/L	
SLE0209-CCBN	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLE0209-CCBO	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0209-CCBO	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0209-CCBO	Cadmium-114	-0.0100	0.04	0.100	ug/L	
SLE0209-CCBO	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0209-CCBO	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0209-CCBO	Zinc-66	-0.0050	2.92	6.00	ug/L	
SLE0209-CCBO	Zinc-67	0.0660	0.94	6.00	ug/L	
SLE0209-IBLS	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0209-IBLS	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLE0209-IBLS	Cadmium-114	-0.00900	0.04	0.100	ug/L	
SLE0209-IBLS	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0209-IBLS	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0209-IBLS	Zinc-66	-0.0310	2.92	6.00	ug/L	
SLE0209-IBLS	Zinc-67	-0.0300	0.94	6.00	ug/L	
SLE0209-CCBP	Arsenic-75a	0.0110	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 08:22

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBP	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLE0209-CCBP	Cadmium-114	-0.00800	0.04	0.100	ug/L	
SLE0209-CCBP	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0209-CCBP	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0209-CCBP	Zinc-66	-0.0290	2.92	6.00	ug/L	
SLE0209-CCBP	Zinc-67	-0.0140	0.94	6.00	ug/L	
SLE0209-IBLT	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0209-CCBQ	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0209-IBLU	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0209-CCBR	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0209-IBLV	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0209-CCBS	Arsenic-75a	0.00200	0.0373	0.200	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0163	Instrument:	ICPMS1
		Calibration:	GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0163-CAL1	XDT_m1230509a-001	NA	05/09/23 15:21
CAL 1 - LOW CHECK	SLE0163-CAL2	XDT_m1230509a-002	NA	05/09/23 15:26
CAL 2	SLE0163-CAL3	XDT_m1230509a-003	NA	05/09/23 15:30
CAL 3	SLE0163-CAL4	XDT_m1230509a-004	NA	05/09/23 15:36
CAL 4	SLE0163-CAL5	XDT_m1230509a-005	NA	05/09/23 15:41
CAL 5	SLE0163-CAL6	XDT_m1230509a-006	NA	05/09/23 15:48
RINSE	SLE0163-IBL1	XDT_m1230509a-007	NA	05/09/23 15:55
Initial Cal Check	SLE0163-ICV1	XDT_m1230509a-009	NA	05/09/23 16:02
Initial Cal Blank	SLE0163-ICB1	XDT_m1230509a-011	NA	05/09/23 16:14
Calibration Check	SLE0163-CCV1	XDT_m1230509a-012	NA	05/09/23 16:20
Calibration Blank	SLE0163-CCB1	XDT_m1230509a-014	NA	05/09/23 16:32
Instrument RL Check	SLE0163-CRL1	XDT_m1230509a-015	NA	05/09/23 16:39
Interference Check B	SLE0163-IFB1	XDT_m1230509a-017	NA	05/09/23 16:49
Interference Check A	SLE0163-IFA1	XDT_m1230509a-018	NA	05/09/23 16:54
LR300	SLE0163-HCV2	XDT_m1230509a-020	NA	05/09/23 17:04
LR200	SLE0163-HCV1	XDT_m1230509a-021	NA	05/09/23 17:11
Instrument Blank	SLE0163-IBL2	XDT_m1230509a-022	NA	05/09/23 17:16
Instrument Blank	SLE0163-IBL3	XDT_m1230509a-023	NA	05/09/23 17:23
Calibration Check	SLE0163-CCV2	XDT_m1230509a-024	NA	05/09/23 17:29
Calibration Blank	SLE0163-CCB2	XDT_m1230509a-025	NA	05/09/23 17:36
ZZZZZ	BLE0256-BLK1	XDT_m1230509a-026	Water	05/09/23 17:44
ZZZZZ	BLE0256-BS1	XDT_m1230509a-027	Water	05/09/23 17:49
Instrument Blank	SLE0163-IBL4	XDT_m1230509a-033	NA	05/09/23 18:24
Instrument Blank	SLE0163-IBL5	XDT_m1230509a-035	NA	05/09/23 18:35
Calibration Check	SLE0163-CCV3	XDT_m1230509a-036	NA	05/09/23 18:40
Calibration Blank	SLE0163-CCB3	XDT_m1230509a-037	NA	05/09/23 18:47
Calibration Check	SLE0163-CCV4	XDT_m1230509a-039	NA	05/09/23 18:59
Calibration Blank	SLE0163-CCB4	XDT_m1230509a-040	NA	05/09/23 19:06
ZZZZZ	BLE0134-BLK2	XDT_m1230509a-044	Water	05/09/23 19:29

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0134-BS2	XDT_m1230509a-045	Water	05/09/23 19:33
Instrument Blank	SLE0163-IBL6	XDT_m1230509a-050	NA	05/09/23 19:57
Calibration Check	SLE0163-CCV5	XDT_m1230509a-051	NA	05/09/23 20:01
Calibration Blank	SLE0163-CCB5	XDT_m1230509a-052	NA	05/09/23 20:09
Instrument Blank	SLE0163-IBL7	XDT_m1230509a-062	NA	05/09/23 21:00
Calibration Check	SLE0163-CCV6	XDT_m1230509a-063	NA	05/09/23 21:05
Calibration Blank	SLE0163-CCB6	XDT_m1230509a-064	NA	05/09/23 21:12
Calibration Check	SLE0163-CCV7	XDT_m1230509a-067	NA	05/09/23 21:32
Calibration Blank	SLE0163-CCB7	XDT_m1230509a-068	NA	05/09/23 21:39
Blank	BLD0687-BLK1	XDT_m1230509a-069	Solid	05/09/23 21:43
LCS	BLD0687-BS1	XDT_m1230509a-070	Solid	05/09/23 21:48
Instrument Blank	SLE0163-IBL8	XDT_m1230509a-078	NA	05/09/23 22:22
Calibration Check	SLE0163-CCV8	XDT_m1230509a-079	NA	05/09/23 22:26
Calibration Blank	SLE0163-CCB8	XDT_m1230509a-080	NA	05/09/23 22:33
ZZZZZ	BLE0125-BLK1	XDT_m1230509a-081	Solid	05/09/23 22:38
ZZZZZ	BLE0125-BS1	XDT_m1230509a-082	Solid	05/09/23 22:42
Instrument Blank	SLE0163-IBL9	XDT_m1230509a-090	NA	05/09/23 23:17
Calibration Check	SLE0163-CCV9	XDT_m1230509a-091	NA	05/09/23 23:21
Calibration Blank	SLE0163-CCB9	XDT_m1230509a-092	NA	05/09/23 23:28
ZZZZZ	23D0393-09	XDT_m1230509a-093	Solid	05/09/23 23:32
ZZZZZ	23D0393-13	XDT_m1230509a-094	Solid	05/09/23 23:37
ZZZZZ	23D0393-14	XDT_m1230509a-095	Solid	05/09/23 23:41
ZZZZZ	23D0393-20	XDT_m1230509a-096	Solid	05/09/23 23:45
ZZZZZ	23D0393-07	XDT_m1230509a-097	Solid	05/09/23 23:50
ZZZZZ	BLE0125-DUP1	XDT_m1230509a-098	Solid	05/09/23 23:54
ZZZZZ	BLE0125-MS1	XDT_m1230509a-099	Solid	05/09/23 23:58
ZZZZZ	BLE0125-MSD1	XDT_m1230509a-100	Solid	05/10/23 00:03
Instrument Blank	SLE0163-IBLA	XDT_m1230509a-102	NA	05/10/23 00:11
Calibration Check	SLE0163-CCVA	XDT_m1230509a-103	NA	05/10/23 00:15

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0163

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0163-CCBA	XDT_m1230509a-104	NA	05/10/23 00:23
ZZZZZ	23D0393-21	XDT_m1230509a-105	Solid	05/10/23 00:27
ZZZZZ	23D0393-23	XDT_m1230509a-106	Solid	05/10/23 00:31
ZZZZZ	23D0394-03	XDT_m1230509a-107	Solid	05/10/23 00:36
ZZZZZ	23D0394-05	XDT_m1230509a-108	Solid	05/10/23 00:40
ZZZZZ	23D0394-01	XDT_m1230509a-109	Solid	05/10/23 00:44
ZZZZZ	23D0394-01	XDT_m1230509a-109	Solid	05/10/23 00:44
ZZZZZ	23D0394-01	XDT_m1230509a-109	Solid	05/10/23 00:44
Instrument Blank	SLE0163-IBLB	XDT_m1230509a-114	NA	05/10/23 01:06
Calibration Check	SLE0163-CCVB	XDT_m1230509a-115	NA	05/10/23 01:10
Calibration Blank	SLE0163-CCBB	XDT_m1230509a-116	NA	05/10/23 01:17
ZZZZZ	23D0394-09	XDT_m1230509a-118	Solid	05/10/23 01:26
ZZZZZ	23D0394-10	XDT_m1230509a-119	Solid	05/10/23 01:30
Instrument Blank	SLE0163-IBLC	XDT_m1230509a-122	NA	05/10/23 01:43
Instrument Blank	SLE0163-IBLD	XDT_m1230509a-126	NA	05/10/23 02:01
Calibration Check	SLE0163-CCVC	XDT_m1230509a-127	NA	05/10/23 02:05
Calibration Blank	SLE0163-CCBC	XDT_m1230509a-128	NA	05/10/23 02:12
Instrument Blank	SLE0163-IBLE	XDT_m1230509a-133	NA	05/10/23 02:36
Instrument Blank	SLE0163-IBLF	XDT_m1230509a-138	NA	05/10/23 02:59
Calibration Check	SLE0163-CCVD	XDT_m1230509a-139	NA	05/10/23 03:04
Calibration Blank	SLE0163-CCBD	XDT_m1230509a-140	NA	05/10/23 03:11
ZZZZZ	23D0537-05	XDT_m1230509a-141	Water	05/10/23 03:15
ZZZZZ	BLE0120-DUP2	XDT_m1230509a-142	Water	05/10/23 03:19
ZZZZZ	BLE0120-MS2	XDT_m1230509a-143	Water	05/10/23 03:24
ZZZZZ	BLE0120-MSD2	XDT_m1230509a-144	Water	05/10/23 03:30
Instrument Blank	SLE0163-IBLG	XDT_m1230509a-145	NA	05/10/23 03:34
Instrument Blank	SLE0163-IBLH	XDT_m1230509a-150	NA	05/10/23 03:55
Calibration Check	SLE0163-CCVE	XDT_m1230509a-151	NA	05/10/23 04:00
Calibration Blank	SLE0163-CCBE	XDT_m1230509a-152	NA	05/10/23 04:07

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0163
Instrument: ICPMS1
Calibration: GE00034

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0477-05	XDT_m1230509a-156	Water	05/10/23 04:24
ZZZZZ	23D0477-05	XDT_m1230509a-156	Water	05/10/23 04:24
ZZZZZ	23D0477-05	XDT_m1230509a-156	Water	05/10/23 04:24
ZZZZZ	23D0477-17	XDT_m1230509a-157	Water	05/10/23 04:28
ZZZZZ	23D0477-17	XDT_m1230509a-157	Water	05/10/23 04:28
ZZZZZ	23D0477-17	XDT_m1230509a-157	Water	05/10/23 04:28
ZZZZZ	23D0477-19	XDT_m1230509a-158	Water	05/10/23 04:32
ZZZZZ	23D0477-19	XDT_m1230509a-158	Water	05/10/23 04:32
ZZZZZ	23D0477-19	XDT_m1230509a-158	Water	05/10/23 04:32
ZZZZZ	BLE0077-DUP1	XDT_m1230509a-159	Water	05/10/23 04:37
ZZZZZ	BLE0077-MSD1	XDT_m1230509a-161	Water	05/10/23 04:47
Instrument Blank	SLE0163-IBLI	XDT_m1230509a-162	NA	05/10/23 04:51
Calibration Check	SLE0163-CCVF	XDT_m1230509a-163	NA	05/10/23 04:56
Calibration Blank	SLE0163-CCBF	XDT_m1230509a-164	NA	05/10/23 05:03

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0204-CAL1	XDT_m1230510A-008	NA	05/10/23 15:47
CAL 1 - LOW CHECK	SLE0204-CAL2	XDT_m1230510A-009	NA	05/10/23 15:51
CAL 2	SLE0204-CAL3	XDT_m1230510A-010	NA	05/10/23 15:56
CAL 3	SLE0204-CAL4	XDT_m1230510A-011	NA	05/10/23 16:01
CAL 4	SLE0204-CAL5	XDT_m1230510A-012	NA	05/10/23 16:05
CAL 5	SLE0204-CAL6	XDT_m1230510A-013	NA	05/10/23 16:12
RINSE	SLE0204-IBL1	XDT_m1230510A-014	NA	05/10/23 16:19
Initial Cal Check	SLE0204-ICV1	XDT_m1230510A-016	NA	05/10/23 16:25
Initial Cal Blank	SLE0204-ICB1	XDT_m1230510A-017	NA	05/10/23 16:32
Calibration Check	SLE0204-CCV1	XDT_m1230510A-018	NA	05/10/23 16:37
Calibration Blank	SLE0204-CCB1	XDT_m1230510A-019	NA	05/10/23 16:44
Instrument RL Check	SLE0204-CRL1	XDT_m1230510A-020	NA	05/10/23 16:49
Interference Check A	SLE0204-IFA1	XDT_m1230510A-021	NA	05/10/23 16:56
Interference Check B	SLE0204-IFB1	XDT_m1230510A-022	NA	05/10/23 17:00
LR200	SLE0204-HCV1	XDT_m1230510A-023	NA	05/10/23 17:06
LR300	SLE0204-HCV2	XDT_m1230510A-024	NA	05/10/23 17:11
Instrument Blank	SLE0204-IBL2	XDT_m1230510A-025	NA	05/10/23 17:18
Calibration Check	SLE0204-CCV2	XDT_m1230510A-026	NA	05/10/23 17:24
Calibration Blank	SLE0204-CCB2	XDT_m1230510A-027	NA	05/10/23 17:32
Calibration Check	SLE0204-CCV3	XDT_m1230510A-029	NA	05/10/23 17:41
Calibration Blank	SLE0204-CCB3	XDT_m1230510A-030	NA	05/10/23 17:49
Blank	BLD0687-BLK2	XDT_m1230510A-031	Solid	05/10/23 17:54
LCS	BLD0687-BS2	XDT_m1230510A-033	Solid	05/10/23 18:05
ZZZZZ	BLE0298-BLK1	XDT_m1230510A-034	Water	05/10/23 18:11
ZZZZZ	BLE0298-BS1	XDT_m1230510A-035	Water	05/10/23 18:15
ZZZZZ	BLE0077-MS2	XDT_m1230510A-036	Water	05/10/23 18:21
Instrument Blank	SLE0204-IBL3	XDT_m1230510A-040	NA	05/10/23 18:41
Calibration Check	SLE0204-CCV4	XDT_m1230510A-041	NA	05/10/23 18:45
Calibration Blank	SLE0204-CCB4	XDT_m1230510A-042	NA	05/10/23 18:53

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0143-BLK1	XDT_m1230510A-045	Solid	05/10/23 19:07
ZZZZZ	BLE0143-BS1	XDT_m1230510A-047	Solid	05/10/23 19:19
Instrument Blank	SLE0204-IBL4	XDT_m1230510A-050	NA	05/10/23 19:33
Instrument Blank	SLE0204-IBL5	XDT_m1230510A-052	NA	05/10/23 19:44
Calibration Check	SLE0204-CCV5	XDT_m1230510A-053	NA	05/10/23 19:48
Calibration Blank	SLE0204-CCB5	XDT_m1230510A-054	NA	05/10/23 19:56
Calibration Check	SLE0204-CCV6	XDT_m1230510A-057	NA	05/10/23 20:30
Calibration Blank	SLE0204-CCB6	XDT_m1230510A-058	NA	05/10/23 20:37
ZZZZZ	BLD0578-BLK1	XDT_m1230510A-059	Solid	05/10/23 20:44
ZZZZZ	BLD0578-BS1	XDT_m1230510A-060	Solid	05/10/23 20:48
ZZZZZ	BLE0072-BLK1	XDT_m1230510A-061	Solid	05/10/23 20:53
ZZZZZ	BLE0072-BS1	XDT_m1230510A-062	Solid	05/10/23 20:57
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
Instrument Blank	SLE0204-IBL6	XDT_m1230510A-068	NA	05/10/23 21:25
Calibration Check	SLE0204-CCV7	XDT_m1230510A-069	NA	05/10/23 21:29
Calibration Blank	SLE0204-CCB7	XDT_m1230510A-070	NA	05/10/23 21:37
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	BLD0578-DUP1	XDT_m1230510A-076	Solid	05/10/23 22:03
ZZZZZ	BLD0578-MS1	XDT_m1230510A-077	Solid	05/10/23 22:08
ZZZZZ	BLD0578-MSD1	XDT_m1230510A-078	Solid	05/10/23 22:12
Instrument Blank	SLE0204-IBL7	XDT_m1230510A-080	NA	05/10/23 22:21
Calibration Check	SLE0204-CCV8	XDT_m1230510A-081	NA	05/10/23 22:25
Calibration Blank	SLE0204-CCB8	XDT_m1230510A-082	NA	05/10/23 22:32
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0204-IBL8	XDT_m1230510A-092	NA	05/10/23 23:16
Calibration Check	SLE0204-CCV9	XDT_m1230510A-093	NA	05/10/23 23:21
Calibration Blank	SLE0204-CCB9	XDT_m1230510A-094	NA	05/10/23 23:28
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
ZZZZZ	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
ZZZZZ	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
ZZZZZ	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
ZZZZZ	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
Instrument Blank	SLE0204-IBL9	XDT_m1230510A-104	NA	05/11/23 00:12
Calibration Check	SLE0204-CCVA	XDT_m1230510A-105	NA	05/11/23 00:16
Calibration Blank	SLE0204-CCBA	XDT_m1230510A-106	NA	05/11/23 00:24
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-02	XDT_m1230510A-115	Solid	05/11/23 01:03
Instrument Blank	SLE0204-IBLA	XDT_m1230510A-116	NA	05/11/23 01:08
Calibration Check	SLE0204-CCVB	XDT_m1230510A-117	NA	05/11/23 01:12
Calibration Blank	SLE0204-CCBB	XDT_m1230510A-118	NA	05/11/23 01:19
Calibration Check	SLE0204-CCVC	XDT_m1230510A-120	NA	05/11/23 01:28
Calibration Blank	SLE0204-CCBC	XDT_m1230510A-121	NA	05/11/23 01:35
ZZZZZ	23D0037-04	XDT_m1230510A-122	Solid	05/11/23 01:40
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
Instrument Blank	SLE0204-IBLB	XDT_m1230510A-131	NA	05/11/23 02:21
Calibration Check	SLE0204-CCVD	XDT_m1230510A-132	NA	05/11/23 02:26
Calibration Blank	SLE0204-CCBD	XDT_m1230510A-133	NA	05/11/23 02:33
Instrument Blank	SLE0204-IBLC	XDT_m1230510A-138	NA	05/11/23 02:57
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
Instrument Blank	SLE0204-IBLD	XDT_m1230510A-143	NA	05/11/23 03:20
Calibration Check	SLE0204-CCVE	XDT_m1230510A-144	NA	05/11/23 03:24
Calibration Blank	SLE0204-CCBE	XDT_m1230510A-145	NA	05/11/23 03:31
ZZZZZ	23D0477-11	XDT_m1230510A-146	Water	05/11/23 03:36
ZZZZZ	23D0477-11	XDT_m1230510A-146	Water	05/11/23 03:36
ZZZZZ	23D0477-11	XDT_m1230510A-146	Water	05/11/23 03:36
ZZZZZ	23D0477-13	XDT_m1230510A-147	Water	05/11/23 03:40
ZZZZZ	23D0477-13	XDT_m1230510A-147	Water	05/11/23 03:40
ZZZZZ	23D0477-13	XDT_m1230510A-147	Water	05/11/23 03:40
ZZZZZ	23D0477-02	XDT_m1230510A-148	Water	05/11/23 03:45
ZZZZZ	23D0477-02	XDT_m1230510A-148	Water	05/11/23 03:45
ZZZZZ	23D0477-02	XDT_m1230510A-148	Water	05/11/23 03:45
Instrument Blank	SLE0204-IBLE	XDT_m1230510A-150	NA	05/11/23 03:57
Instrument Blank	SLE0204-IBLF	XDT_m1230510A-155	NA	05/11/23 04:21
Calibration Check	SLE0204-CCVF	XDT_m1230510A-156	NA	05/11/23 04:26
Calibration Blank	SLE0204-CCBF	XDT_m1230510A-157	NA	05/11/23 04:33
Calibration Check	SLE0204-CCVG	XDT_m1230510A-159	NA	05/11/23 04:42

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0204-CCBG	XDT_m1230510A-160	NA	05/11/23 04:49
ZZZZZ	23D0477-04	XDT_m1230510A-161	Water	05/11/23 04:53
ZZZZZ	23D0477-04	XDT_m1230510A-161	Water	05/11/23 04:53
ZZZZZ	23D0477-04	XDT_m1230510A-161	Water	05/11/23 04:53
ZZZZZ	23D0477-06	XDT_m1230510A-162	Water	05/11/23 04:58
ZZZZZ	23D0477-06	XDT_m1230510A-162	Water	05/11/23 04:58
ZZZZZ	23D0477-06	XDT_m1230510A-162	Water	05/11/23 04:58
ZZZZZ	23D0477-08	XDT_m1230510A-163	Water	05/11/23 05:02
ZZZZZ	23D0477-08	XDT_m1230510A-163	Water	05/11/23 05:02
ZZZZZ	23D0477-08	XDT_m1230510A-163	Water	05/11/23 05:02
ZZZZZ	23D0477-10	XDT_m1230510A-164	Water	05/11/23 05:07
ZZZZZ	23D0477-10	XDT_m1230510A-164	Water	05/11/23 05:07
ZZZZZ	23D0477-10	XDT_m1230510A-164	Water	05/11/23 05:07
ZZZZZ	23D0477-12	XDT_m1230510A-165	Water	05/11/23 05:11
ZZZZZ	23D0477-12	XDT_m1230510A-165	Water	05/11/23 05:11
ZZZZZ	23D0477-12	XDT_m1230510A-165	Water	05/11/23 05:11
ZZZZZ	23D0477-20	XDT_m1230510A-166	Water	05/11/23 05:16
ZZZZZ	23D0477-20	XDT_m1230510A-166	Water	05/11/23 05:16
ZZZZZ	23D0477-20	XDT_m1230510A-166	Water	05/11/23 05:16
Instrument Blank	SLE0204-IBLG	XDT_m1230510A-170	NA	05/11/23 05:33
Calibration Check	SLE0204-CCVH	XDT_m1230510A-171	NA	05/11/23 05:38
Calibration Blank	SLE0204-CCBH	XDT_m1230510A-172	NA	05/11/23 05:45
ZZZZZ	23D0477-14	XDT_m1230510A-173	Water	05/11/23 05:50
ZZZZZ	23D0477-14	XDT_m1230510A-173	Water	05/11/23 05:50
ZZZZZ	23D0477-14	XDT_m1230510A-173	Water	05/11/23 05:50
ZZZZZ	23D0477-16	XDT_m1230510A-174	Water	05/11/23 05:54
ZZZZZ	23D0477-16	XDT_m1230510A-174	Water	05/11/23 05:54
ZZZZZ	23D0477-16	XDT_m1230510A-174	Water	05/11/23 05:54
ZZZZZ	23D0477-18	XDT_m1230510A-175	Water	05/11/23 05:58

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204
SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0477-18	XDT_m1230510A-175	Water	05/11/23 05:58
ZZZZZ	23D0477-18	XDT_m1230510A-175	Water	05/11/23 05:58
ZZZZZ	23D0477-01	XDT_m1230510A-176	Water	05/11/23 06:03
ZZZZZ	23D0477-01	XDT_m1230510A-176	Water	05/11/23 06:03
ZZZZZ	23D0477-01	XDT_m1230510A-176	Water	05/11/23 06:03
ZZZZZ	23D0477-03	XDT_m1230510A-177	Water	05/11/23 06:07
ZZZZZ	23D0477-03	XDT_m1230510A-177	Water	05/11/23 06:07
ZZZZZ	23D0477-03	XDT_m1230510A-177	Water	05/11/23 06:07
ZZZZZ	23D0477-07	XDT_m1230510A-178	Water	05/11/23 06:12
ZZZZZ	23D0477-07	XDT_m1230510A-178	Water	05/11/23 06:12
ZZZZZ	23D0477-07	XDT_m1230510A-178	Water	05/11/23 06:12
ZZZZZ	23D0477-09	XDT_m1230510A-179	Water	05/11/23 06:16
ZZZZZ	23D0477-09	XDT_m1230510A-179	Water	05/11/23 06:16
ZZZZZ	23D0477-09	XDT_m1230510A-179	Water	05/11/23 06:16
ZZZZZ	23D0477-15	XDT_m1230510A-180	Water	05/11/23 06:20
ZZZZZ	23D0477-15	XDT_m1230510A-180	Water	05/11/23 06:20
ZZZZZ	23D0477-15	XDT_m1230510A-180	Water	05/11/23 06:20
ZZZZZ	23D0487-02	XDT_m1230510A-181	Water	05/11/23 06:26
Instrument Blank	SLE0204-IBLH	XDT_m1230510A-182	NA	05/11/23 06:31
Calibration Check	SLE0204-CCVI	XDT_m1230510A-183	NA	05/11/23 06:35
Calibration Blank	SLE0204-CCBI	XDT_m1230510A-184	NA	05/11/23 06:42
ZZZZZ	23D0487-06	XDT_m1230510A-185	Water	05/11/23 06:47
ZZZZZ	23D0487-05	XDT_m1230510A-186	Water	05/11/23 06:51
ZZZZZ	23D0487-04	XDT_m1230510A-187	Water	05/11/23 06:55
ZZZZZ	23D0487-03	XDT_m1230510A-188	Water	05/11/23 07:00
Instrument Blank	SLE0204-IBLI	XDT_m1230510A-189	NA	05/11/23 07:05
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	BLE0298-DUP1	XDT_m1230510A-191	Water	05/11/23 07:14
ZZZZZ	BLE0298-MS1	XDT_m1230510A-192	Water	05/11/23 07:19
ZZZZZ	BLE0298-MSD1	XDT_m1230510A-193	Water	05/11/23 07:25
Instrument Blank	SLE0204-IBLJ	XDT_m1230510A-194	NA	05/11/23 07:29
Calibration Check	SLE0204-CCVJ	XDT_m1230510A-195	NA	05/11/23 07:34
Calibration Blank	SLE0204-CCBJ	XDT_m1230510A-196	NA	05/11/23 07:41

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0209	Instrument:	ICPMS1
		Calibration:	GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0209-CAL1	XDT_m1230511-006	NA	05/11/23 13:56
CAL 1 - LOW CHECK	SLE0209-CAL2	XDT_m1230511-007	NA	05/11/23 14:00
CAL 2	SLE0209-CAL3	XDT_m1230511-008	NA	05/11/23 14:05
CAL 3	SLE0209-CAL4	XDT_m1230511-009	NA	05/11/23 14:10
CAL 4	SLE0209-CAL5	XDT_m1230511-010	NA	05/11/23 14:15
CAL 5	SLE0209-CAL6	XDT_m1230511-011	NA	05/11/23 14:21
RINSE	SLE0209-IBL1	XDT_m1230511-012	NA	05/11/23 14:29
Initial Cal Check	SLE0209-ICV1	XDT_m1230511-014	NA	05/11/23 14:34
Initial Cal Blank	SLE0209-ICB1	XDT_m1230511-015	NA	05/11/23 14:42
Calibration Check	SLE0209-CCV1	XDT_m1230511-019	NA	05/11/23 15:06
Calibration Blank	SLE0209-CCB1	XDT_m1230511-020	NA	05/11/23 15:13
Instrument RL Check	SLE0209-CRL1	XDT_m1230511-021	NA	05/11/23 15:18
Interference Check A	SLE0209-IFA1	XDT_m1230511-022	NA	05/11/23 15:23
Interference Check B	SLE0209-IFB1	XDT_m1230511-023	NA	05/11/23 15:28
LR200	SLE0209-HCV1	XDT_m1230511-024	NA	05/11/23 15:32
LR300	SLE0209-HCV2	XDT_m1230511-025	NA	05/11/23 15:37
Instrument Blank	SLE0209-IBL2	XDT_m1230511-026	NA	05/11/23 15:50
Instrument Blank	SLE0209-IBL3	XDT_m1230511-027	NA	05/11/23 15:56
Calibration Check	SLE0209-CCV2	XDT_m1230511-028	NA	05/11/23 16:02
Calibration Blank	SLE0209-CCB2	XDT_m1230511-029	NA	05/11/23 16:09
Calibration Check	SLE0209-CCV3	XDT_m1230511-031	NA	05/11/23 16:19
Calibration Blank	SLE0209-CCB3	XDT_m1230511-032	NA	05/11/23 16:27
ZZZZZ	BLE0342-BLK1	XDT_m1230511-034	Water	05/11/23 16:42
ZZZZZ	BLE0342-BS1	XDT_m1230511-035	Water	05/11/23 16:46
Instrument Blank	SLE0209-IBL4	XDT_m1230511-040	NA	05/11/23 17:10
Instrument Blank	SLE0209-IBL5	XDT_m1230511-042	NA	05/11/23 17:21
Calibration Check	SLE0209-CCV4	XDT_m1230511-043	NA	05/11/23 17:25
Calibration Blank	SLE0209-CCB4	XDT_m1230511-044	NA	05/11/23 17:32
Instrument Blank	SLE0209-IBL9	XDT_m1230511-073	NA	05/11/23 18:29

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	BLE0342-DUP1	XDT_m1230511-075	Water	05/11/23 18:40
ZZZZZ	BLE0342-MS1	XDT_m1230511-076	Water	05/11/23 18:45
ZZZZZ	BLE0342-MSD1	XDT_m1230511-077	Water	05/11/23 18:50
Instrument Blank	SLE0209-IBLA	XDT_m1230511-078	NA	05/11/23 18:55
Calibration Check	SLE0209-CCV7	XDT_m1230511-079	NA	05/11/23 18:59
Calibration Blank	SLE0209-CCB7	XDT_m1230511-080	NA	05/11/23 19:07
Calibration Check	SLE0209-CCV8	XDT_m1230511-082	NA	05/11/23 19:18
Calibration Blank	SLE0209-CCB8	XDT_m1230511-083	NA	05/11/23 19:25
Calibration Check	SLE0209-CCVA	XDT_m1230511-094	NA	05/11/23 19:55
Calibration Blank	SLE0209-CCBA	XDT_m1230511-095	NA	05/11/23 20:00
Instrument Blank	SLE0209-IBLC	XDT_m1230511-100	NA	05/11/23 20:25
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	BLE0143-DUP1	XDT_m1230511-102	Solid	05/11/23 20:35
ZZZZZ	BLE0143-MS1	XDT_m1230511-103	Solid	05/11/23 20:40
ZZZZZ	BLE0143-MSD1	XDT_m1230511-104	Solid	05/11/23 20:44
Instrument Blank	SLE0209-IBLD	XDT_m1230511-105	NA	05/11/23 20:49
Calibration Check	SLE0209-CCVB	XDT_m1230511-106	NA	05/11/23 20:53
Calibration Blank	SLE0209-CCBB	XDT_m1230511-107	NA	05/11/23 21:00
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
Instrument Blank	SLE0209-IBLE	XDT_m1230511-114	NA	05/11/23 21:34
Instrument Blank	SLE0209-IBLF	XDT_m1230511-116	NA	05/11/23 21:46
Calibration Check	SLE0209-CCVC	XDT_m1230511-117	NA	05/11/23 21:50
Calibration Blank	SLE0209-CCBC	XDT_m1230511-118	NA	05/11/23 21:58
Calibration Check	SLE0209-CCVD	XDT_m1230511-120	NA	05/11/23 22:08
Calibration Blank	SLE0209-CCBD	XDT_m1230511-121	NA	05/11/23 22:15
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209
SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SS1804	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
LDW23-SS1803	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
Instrument Blank	SLE0209-IBLG	XDT_m1230511-131	NA	05/11/23 23:02
Calibration Check	SLE0209-CCVE	XDT_m1230511-132	NA	05/11/23 23:07
Calibration Blank	SLE0209-CCBE	XDT_m1230511-133	NA	05/11/23 23:14
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209
SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0209-IBLH	XDT_m1230511-143	NA	05/11/23 23:58
Calibration Check	SLE0209-CCVF	XDT_m1230511-144	NA	05/12/23 00:02
Calibration Blank	SLE0209-CCBF	XDT_m1230511-145	NA	05/12/23 00:09
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
Instrument Blank	SLE0209-IBLI	XDT_m1230511-155	NA	05/12/23 00:56
Calibration Check	SLE0209-CCVG	XDT_m1230511-156	NA	05/12/23 01:00
Calibration Blank	SLE0209-CCBG	XDT_m1230511-157	NA	05/12/23 01:07
ZZZZZ	23D0393-04RE1	XDT_m1230511-158	Solid	05/12/23 01:12
ZZZZZ	23D0393-04RE1	XDT_m1230511-158	Solid	05/12/23 01:12
ZZZZZ	BLE0072-DUP3	XDT_m1230511-159	Solid	05/12/23 01:16
ZZZZZ	BLE0072-MS3	XDT_m1230511-160	Solid	05/12/23 01:20
ZZZZZ	BLE0072-MSD3	XDT_m1230511-161	Solid	05/12/23 01:25
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	BLE0072-DUP2	XDT_m1230511-163	Solid	05/12/23 01:34
ZZZZZ	BLE0072-MS2	XDT_m1230511-164	Solid	05/12/23 01:38
ZZZZZ	BLE0072-MSD2	XDT_m1230511-165	Solid	05/12/23 01:43
Instrument Blank	SLE0209-IBLJ	XDT_m1230511-167	NA	05/12/23 01:54
Calibration Check	SLE0209-CCVH	XDT_m1230511-168	NA	05/12/23 01:58
Calibration Blank	SLE0209-CCBH	XDT_m1230511-169	NA	05/12/23 02:05
Instrument Blank	SLE0209-IBLK	XDT_m1230511-176	NA	05/12/23 02:36
Instrument Blank	SLE0209-IBLL	XDT_m1230511-179	NA	05/12/23 02:56
Calibration Check	SLE0209-CCVI	XDT_m1230511-180	NA	05/12/23 03:00
Calibration Blank	SLE0209-CCBI	XDT_m1230511-181	NA	05/12/23 03:07
Calibration Check	SLE0209-CCVJ	XDT_m1230511-183	NA	05/12/23 03:16

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209
SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0209-CCBJ	XDT_m1230511-184	NA	05/12/23 03:23
ZZZZZ	23D0393-05	XDT_m1230511-185	Solid	05/12/23 03:28
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
Instrument Blank	SLE0209-IBLM	XDT_m1230511-188	NA	05/12/23 03:46
ZZZZZ	23D0412-02	XDT_m1230511-189	Water	05/12/23 03:50
ZZZZZ	23D0412-03	XDT_m1230511-190	Water	05/12/23 03:55
ZZZZZ	23D0412-04	XDT_m1230511-191	Water	05/12/23 03:59
ZZZZZ	23D0412-05	XDT_m1230511-192	Water	05/12/23 04:03
ZZZZZ	23D0412-06	XDT_m1230511-193	Water	05/12/23 04:08
Instrument Blank	SLE0209-IBLN	XDT_m1230511-194	NA	05/12/23 04:12
Calibration Check	SLE0209-CCVK	XDT_m1230511-195	NA	05/12/23 04:17
Calibration Blank	SLE0209-CCBK	XDT_m1230511-196	NA	05/12/23 04:24
ZZZZZ	23D0412-07	XDT_m1230511-197	Water	05/12/23 04:28
ZZZZZ	23D0412-08	XDT_m1230511-198	Water	05/12/23 04:32
ZZZZZ	23D0412-09	XDT_m1230511-199	Water	05/12/23 04:37
ZZZZZ	23D0412-10	XDT_m1230511-200	Water	05/12/23 04:41
ZZZZZ	23D0412-11	XDT_m1230511-201	Water	05/12/23 04:46
ZZZZZ	23D0412-12	XDT_m1230511-202	Water	05/12/23 04:50
ZZZZZ	23D0412-13	XDT_m1230511-203	Water	05/12/23 04:54
ZZZZZ	23D0412-14	XDT_m1230511-204	Water	05/12/23 04:59
ZZZZZ	23D0412-15	XDT_m1230511-205	Water	05/12/23 05:03
Instrument Blank	SLE0209-IBLO	XDT_m1230511-206	NA	05/12/23 05:08
Calibration Check	SLE0209-CCVL	XDT_m1230511-207	NA	05/12/23 05:12
Calibration Blank	SLE0209-CCBL	XDT_m1230511-208	NA	05/12/23 05:19
ZZZZZ	23D0442-03	XDT_m1230511-209	Water	05/12/23 05:23
ZZZZZ	23D0442-04	XDT_m1230511-210	Water	05/12/23 05:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0442-06	XDT_m1230511-212	Water	05/12/23 05:36
ZZZZZ	23D0598-08	XDT_m1230511-215	Water	05/12/23 05:51
ZZZZZ	23D0598-08	XDT_m1230511-215	Water	05/12/23 05:51
ZZZZZ	23D0598-08	XDT_m1230511-215	Water	05/12/23 05:51
ZZZZZ	23D0598-08	XDT_m1230511-215	Water	05/12/23 05:51
ZZZZZ	23D0598-10	XDT_m1230511-216	Water	05/12/23 05:55
ZZZZZ	23D0598-10	XDT_m1230511-216	Water	05/12/23 05:55
ZZZZZ	23D0598-10	XDT_m1230511-216	Water	05/12/23 05:55
ZZZZZ	23D0598-10	XDT_m1230511-216	Water	05/12/23 05:55
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00
Instrument Blank	SLE0209-IBLP	XDT_m1230511-218	NA	05/12/23 06:04
Calibration Check	SLE0209-CCVM	XDT_m1230511-219	NA	05/12/23 06:09
Calibration Blank	SLE0209-CCBM	XDT_m1230511-220	NA	05/12/23 06:16
ZZZZZ	23D0514-02	XDT_m1230511-221	Water	05/12/23 06:20
ZZZZZ	23D0514-03	XDT_m1230511-222	Water	05/12/23 06:24
ZZZZZ	23D0514-04	XDT_m1230511-223	Water	05/12/23 06:29
ZZZZZ	23D0514-06	XDT_m1230511-224	Water	05/12/23 06:33
Instrument Blank	SLE0209-IBLQ	XDT_m1230511-225	NA	05/12/23 06:37
Instrument Blank	SLE0209-IBLR	XDT_m1230511-230	NA	05/12/23 07:00
Calibration Check	SLE0209-CCVN	XDT_m1230511-231	NA	05/12/23 07:04
Calibration Blank	SLE0209-CCBN	XDT_m1230511-232	NA	05/12/23 07:11
Calibration Check	SLE0209-CCVO	XDT_m1230511-234	NA	05/12/23 07:20
Calibration Blank	SLE0209-CCBO	XDT_m1230511-235	NA	05/12/23 07:27
ZZZZZ	23D0537-02	XDT_m1230511-236	Water	05/12/23 07:31
ZZZZZ	23D0537-03	XDT_m1230511-237	Water	05/12/23 07:36
ZZZZZ	23D0537-04	XDT_m1230511-238	Water	05/12/23 07:40

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209
SDG: 23D0136
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0209-IBLS	XDT_m1230511-245	NA	05/12/23 08:11
Calibration Check	SLE0209-CCVP	XDT_m1230511-246	NA	05/12/23 08:15
Calibration Blank	SLE0209-CCBP	XDT_m1230511-247	NA	05/12/23 08:22
ZZZZZ	23D0578-02	XDT_m1230511-253	Water	05/12/23 08:46
ZZZZZ	BLE0134-DUP1	XDT_m1230511-254	Water	05/12/23 08:50
ZZZZZ	BLE0134-MS1	XDT_m1230511-255	Water	05/12/23 08:53
Instrument Blank	SLE0209-IBLT	XDT_m1230511-257	NA	05/12/23 09:00
Calibration Check	SLE0209-CCVQ	XDT_m1230511-258	NA	05/12/23 09:04
Calibration Blank	SLE0209-CCBQ	XDT_m1230511-259	NA	05/12/23 09:10
ZZZZZ	23D0587-03	XDT_m1230511-268	Water	05/12/23 09:41
Instrument Blank	SLE0209-IBLU	XDT_m1230511-269	NA	05/12/23 09:45
Calibration Check	SLE0209-CCVR	XDT_m1230511-270	NA	05/12/23 09:48
Calibration Blank	SLE0209-CCBR	XDT_m1230511-271	NA	05/12/23 09:55
ZZZZZ	23D0587-02	XDT_m1230511-272	Water	05/12/23 09:58
ZZZZZ	23D0587-04	XDT_m1230511-273	Water	05/12/23 10:01
ZZZZZ	23D0587-05	XDT_m1230511-274	Water	05/12/23 10:05
ZZZZZ	23D0578-07	XDT_m1230511-275	Water	05/12/23 10:09
ZZZZZ	23D0578-08	XDT_m1230511-276	Water	05/12/23 10:12
ZZZZZ	23D0578-04	XDT_m1230511-277	Water	05/12/23 10:16
ZZZZZ	23D0578-06	XDT_m1230511-278	Water	05/12/23 10:19
ZZZZZ	23D0578-03	XDT_m1230511-279	Water	05/12/23 10:23
ZZZZZ	23D0578-05	XDT_m1230511-280	Water	05/12/23 10:26
Instrument Blank	SLE0209-IBLV	XDT_m1230511-281	NA	05/12/23 10:30
Calibration Check	SLE0209-CCVS	XDT_m1230511-282	NA	05/12/23 10:33
Calibration Blank	SLE0209-CCBS	XDT_m1230511-283	NA	05/12/23 10:39

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Sequence: SLE0163
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0163-IFA1	Arsenic-75a	0	0.0210		ug/L
	Cadmium-111	0	0.0830		ug/L
	Cadmium-114	0	0.0720		ug/L
	Copper-63	0	0.0350		ug/L
	Copper-65	0	0.0420		ug/L
	Zinc-66	0	0.3180		ug/L
	Zinc-67	0	0.1970		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Sequence: SLE0163
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0163-IFB1	Arsenic-75a	20.000	18.983	94.9	ug/L
	Cadmium-111	20.000	19.887	99.4	ug/L
	Cadmium-114	20.000	19.859	99.3	ug/L
	Copper-63	20.000	20.310	102	ug/L
	Copper-65	20.000	20.188	101	ug/L
	Zinc-66	20.000	19.206	96.0	ug/L
	Zinc-67	20.000	17.986	89.9	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFA1	Arsenic-75a	0	0.0260		ug/L
	Cadmium-111	0	0.0430		ug/L
	Cadmium-114	0	0.0270		ug/L
	Copper-63	0	0.0390		ug/L
	Copper-65	0	0.0330		ug/L
	Zinc-66	0	0.3120		ug/L
	Zinc-67	0	0.2690		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFB1	Arsenic-75a	20.000	19.651	98.3	ug/L
	Cadmium-111	20.000	18.519	92.6	ug/L
	Cadmium-114	20.000	18.365	91.8	ug/L
	Copper-63	20.000	20.580	103	ug/L
	Copper-65	20.000	20.103	101	ug/L
	Zinc-66	20.000	19.662	98.3	ug/L
	Zinc-67	20.000	17.951	89.8	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Standard ID: L005318

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0209-IFA1	Arsenic-75a	0	0.0210		ug/L
	Cadmium-111	0	0.0470		ug/L
	Cadmium-114	0	0.0440		ug/L
	Copper-63	0	0.0450		ug/L
	Copper-65	0	0.0540		ug/L
	Zinc-66	0	0.2310		ug/L
	Zinc-67	0	0.1630		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Standard ID: L005318

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0209-IFB1	Arsenic-75a	20.000	19.554	97.8	ug/L
	Cadmium-111	20.000	18.852	94.3	ug/L
	Cadmium-114	20.000	18.980	94.9	ug/L
	Copper-63	20.000	20.032	100	ug/L
	Copper-65	20.000	20.081	100	ug/L
	Zinc-66	20.000	19.222	96.1	ug/L
	Zinc-67	20.000	18.232	91.2	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00034
Sequence: SLE0163
Lab Sample ID: SLE0163-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.206	103	ug/L	50 - 150
Cadmium-111	0.10000	0.0970	97.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0950	95.0	ug/L	50 - 150
Copper-63	0.50000	0.703	141	ug/L	50 - 150
Copper-65	0.50000	0.709	142	ug/L	50 - 150
Zinc-66	6.0000	6.20	103	ug/L	50 - 150
Zinc-67	6.0000	5.78	96.3	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Lab Sample ID: SLE0204-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.213	107	ug/L	50 - 150
Cadmium-111	0.10000	0.113	113	ug/L	50 - 150
Cadmium-114	0.10000	0.0970	97.0	ug/L	50 - 150
Copper-63	0.50000	0.708	142	ug/L	50 - 150
Copper-65	0.50000	0.727	145	ug/L	50 - 150
Zinc-66	6.0000	6.25	104	ug/L	50 - 150
Zinc-67	6.0000	6.11	102	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Lab Sample ID: SLE0209-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.199	99.5	ug/L	50 - 150
Cadmium-111	0.10000	0.0830	83.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0850	85.0	ug/L	50 - 150
Copper-63	0.50000	0.700	140	ug/L	50 - 150
Copper-65	0.50000	0.654	131	ug/L	50 - 150
Zinc-66	6.0000	6.52	109	ug/L	50 - 150
Zinc-67	6.0000	5.95	99.2	ug/L	50 - 150

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00034
Laboratory ID: SLE0163-HCV1
Sequence: SLE0163
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	196	-2.2	10.00
Cadmium-111	200.00	198	-0.9	10.00
Cadmium-114	200.00	200	0.008	10.00
Copper-63	200.00	197	-1.3	10.00
Copper-65	200.00	197	-1.6	10.00
Zinc-66	200.00	194	-2.9	10.00
Zinc-67	200.00	193	-3.5	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00034
Laboratory ID: SLE0163-HCV2
Sequence: SLE0163
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	294	-1.9	10.00
Cadmium-111	300.00	296	-1.3	10.00
Cadmium-114	300.00	298	-0.7	10.00
Copper-63	300.00	298	-0.6	10.00
Copper-65	300.00	292	-2.6	10.00
Zinc-66	300.00	287	-4.2	10.00
Zinc-67	300.00	281	-6.4	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV1
Sequence: SLE0204
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	194	-3.1	10.00
Cadmium-111	200.00	220	9.8	10.00
Cadmium-114	200.00	220	10.0	10.00
Copper-63	200.00	188	-6.2	10.00
Copper-65	200.00	186	-7.1	10.00
Zinc-66	200.00	189	-5.4	10.00
Zinc-67	200.00	187	-6.7	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV2
Sequence: SLE0204
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	305	1.7	10.00
Cadmium-111	300.00	293	-2.4	10.00
Cadmium-114	300.00	294	-1.9	10.00
Copper-63	300.00	287	-4.3	10.00
Copper-65	300.00	287	-4.2	10.00
Zinc-66	300.00	285	-4.9	10.00
Zinc-67	300.00	288	-4.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Laboratory ID: SLE0209-HCV1
Sequence: SLE0209
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	197	-1.5	10.00
Cadmium-111	200.00	193	-3.7	10.00
Cadmium-114	200.00	194	-3.1	10.00
Copper-63	200.00	191	-4.4	10.00
Copper-65	200.00	190	-4.9	10.00
Zinc-66	200.00	193	-3.5	10.00
Zinc-67	200.00	189	-5.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Laboratory ID: SLE0209-HCV2
Sequence: SLE0209
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	296	-1.2	10.00
Cadmium-111	300.00	285	-5.1	10.00
Cadmium-114	300.00	287	-4.2	10.00
Copper-63	300.00	283	-5.5	10.00
Copper-65	300.00	282	-5.8	10.00
Zinc-66	300.00	281	-6.4	10.00
Zinc-67	300.00	275	-8.3	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/28/23 15:38	23	180	05/11/23 22:35	36	180	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/28/23 15:38	22	180	05/11/23 22:40	36	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Arsenic-75a	0.04	0.20	mg/kg
Cadmium-111	0.03	0.10	mg/kg
Cadmium-114	0.04	0.10	mg/kg
Copper-63	0.17	0.50	mg/kg
Copper-65	0.35	0.50	mg/kg
Zinc-66	2.9	6.0	mg/kg
Zinc-67	0.9	6.0	mg/kg

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inorganicventures.com

CERTIFICATE OF ANALYSIS

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fax: 540.585.3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 Cu(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4, HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn		0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	<	0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310				
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300				
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444				
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310				
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610				
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310				
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310				
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129				
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000				
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310				
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310				
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600				
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910				
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310				
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

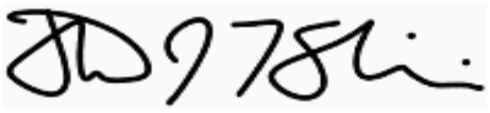
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

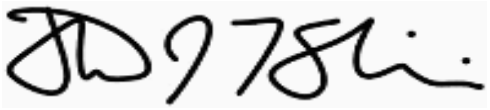
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

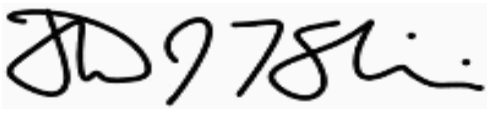
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

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k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

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4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10018 ± 50 µg/mL**
ICP Assay NIST SRM 3104a Lot Number: 140909

Assay Method #2 **10023 ± 31 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #3 **10023 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10051 ± 52 µg/mL** ICP Assay NIST SRM 3151 Lot Number: 160729
Assay Method #2	**10051 ± 19 µg/mL** Volhard NIST SRM 999c Lot Number: 999c
Assay Method #3	**10049 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn		0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	<	0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110				
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900				
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100				
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110				
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110				
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110				
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000				
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110				
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110				
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410				
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<					
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000				
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

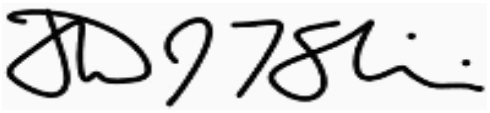
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

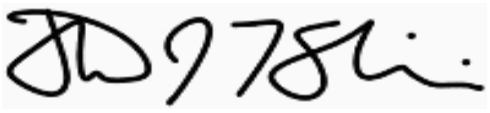
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**9987 ± 24 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**10004 ± 84 µg/mL** ICP Assay NIST SRM 3141a Lot Number: 140813
Assay Method #3	**10007 ± 45 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

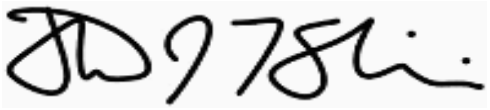
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

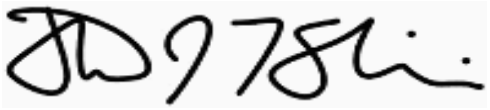
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

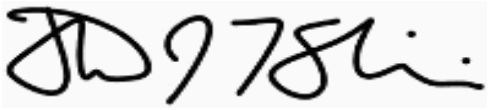
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

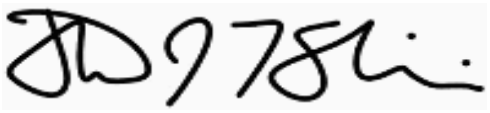
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

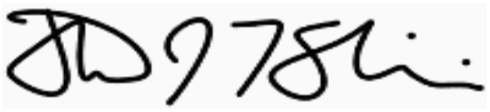
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

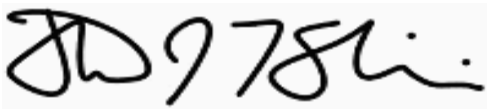
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-01 C	SDG:	23D0136
Sampled:	04/05/23 11:45	Prepared:	06/19/23 13:26	File ID:	CubeData_06232023@1311-021
% Solids:	47.25	Preparation:	No Prep Wet Chem	Analyzed:	06/21/23 02:24
Batch:	BLF0522	Sequence:	SLF0283	Initial/Final:	0.5304 g Wet / 0.5304 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.87	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1804

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-02 C	SDG:	23D0136
Sampled:	04/05/23 12:15	Prepared:	06/19/23 13:26	File ID:	CubeData_06232023@1311-037
% Solids:	49.80	Preparation:	No Prep Wet Chem	Analyzed:	06/21/23 10:27
Batch:	BLF0522	Sequence:	SLF0283	Initial/Final:	0.0702 g Wet / 0.0702 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.22	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-03 B	SDG:	23D0136
Sampled:	04/05/23 16:05	Prepared:	06/19/23 13:26	File ID:	CubeData_06232023@1311-038
% Solids:	48.35	Preparation:	No Prep Wet Chem	Analyzed:	06/21/23 10:57
Batch:	BLF0522	Sequence:	SLF0283	Initial/Final:	0.1926 g Wet / 0.1926 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.64	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1803

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23D0136-04 C	SDG:	23D0136
Sampled:	04/05/23 16:30	Prepared:	06/19/23 13:26	File ID:	CubeData_06232023@1311-041
% Solids:	49.32	Preparation:	No Prep Wet Chem	Analyzed:	06/21/23 12:28
Batch:	BLF0522	Sequence:	SLF0283	Initial/Final:	0.1057 g Wet / 0.1057 g
Instrument:	TOC Cube			Calibration:	GE00052

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.30	1	0.02	0.02	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 23D0136

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

Batch: BLF0522 Batch Matrix: Solid Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01	eData_06232023@1311-	06/19/23 13:26	
LDW23-SC1804	23D0136-02	eData_06232023@1311-	06/19/23 13:26	
LDW23-SS1803	23D0136-03	eData_06232023@1311-	06/19/23 13:26	
LDW23-SC1803	23D0136-04	eData_06232023@1311-	06/19/23 13:26	
Blank	BLF0522-BLK1	eData_06232023@1311-	06/19/23 13:26	
LCS	BLF0522-BS1	eData_06232023@1311-	06/19/23 13:26	
LDW23-SS1804	BLF0522-DUP1	eData_06232023@1311-	06/19/23 13:26	
MRL Check	BLF0522-MRL1	eData_06232023@1311-	06/19/23 13:26	
LDW23-SS1804	BLF0522-MS1	eData_06232023@1311-	06/19/23 13:26	
Reference	BLF0522-SRM2	eData_06262023@1011-	06/19/23 13:26	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLF0522
Laboratory ID: BLF0522-BLK1
Prepared: 06/19/23 13:26
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 06/20/23 20:23
Sequence: SLF0283
Calibration: GE00052
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	06/20/23 22:23
Batch:	BLF0522	Laboratory ID:	BLF0522-BS1
Preparation:	No Prep Wet Chem	Sequence Name:	LCS
Initial/Final:	0.0237 g / 0.0237 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	45.6		103	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLF0522-DUP1
Batch: BLF0522
Lab Source ID: 23D0136-01
Preparation: No Prep Wet Chem
Initial/Final: 0.5257 g / 0.5257 g
Source Sample Name: LDW23-SS1804
% Solids: 47.25

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	2.87	3.10	7.51	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1804

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	06/21/23 03:24
Batch:	BLF0522	Laboratory ID:	BLF0522-MS1
Preparation:	No Prep Wet Chem	Sequence Name:	Matrix Spike
Initial/Final:	0.5525 g / 0.5525 g	Source Sample:	LDW23-SS1804

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.31	2.87		4.46		121	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

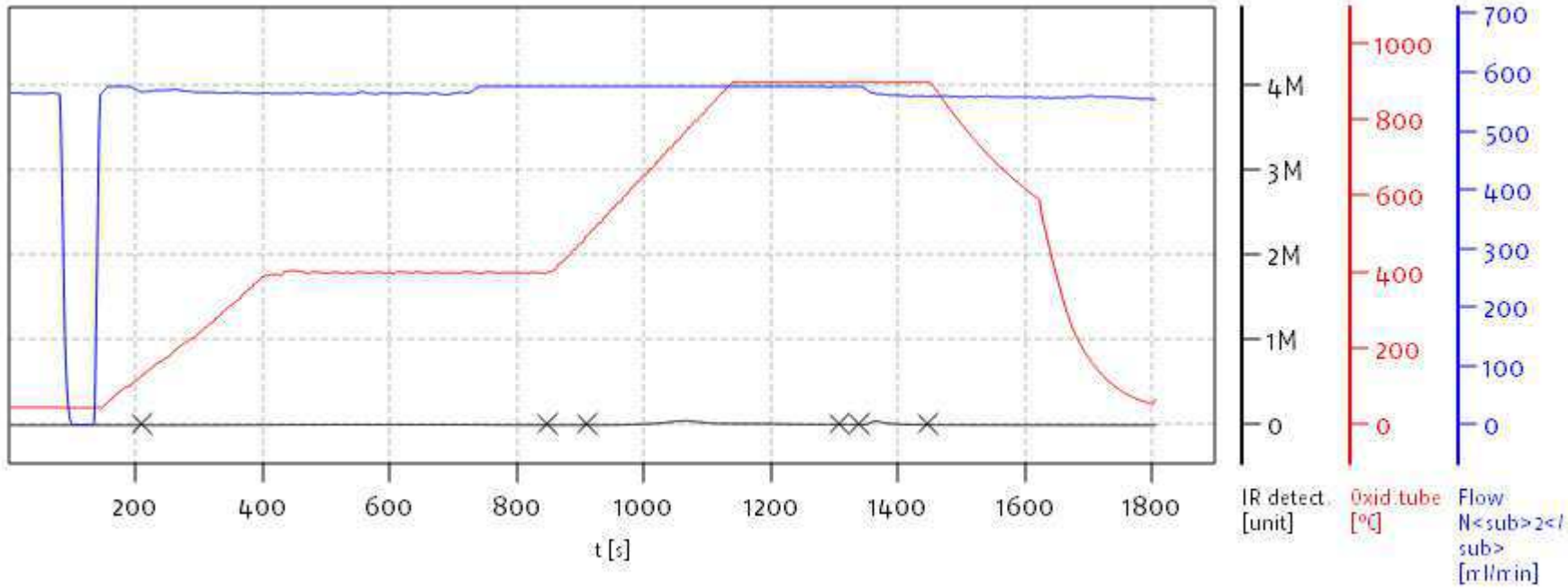
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0270	Instrument:	TOC Cube
		Calibration:	GE00052

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SLE0270-CAL1	CubeData_05182023@1024b-101	NA	05/17/23 12:46
Cal Standard	SLE0270-CAL2	CubeData_05182023@1024b-102	NA	05/17/23 13:16
Cal Standard	SLE0270-CAL3	CubeData_05182023@1024b-103	NA	05/17/23 13:46
Cal Standard	SLE0270-CAL4	CubeData_05182023@1024b-104	NA	05/17/23 14:16
Cal Standard	SLE0270-CAL5	CubeData_05182023@1024b-105	NA	05/17/23 14:47
Cal Standard	SLE0270-CAL6	CubeData_05182023@1024b-106	NA	05/17/23 15:17
Cal Standard	SLE0270-CAL7	CubeData_05182023@1024b-107	NA	05/17/23 15:47
Cal Standard	SLE0270-CAL8	CubeData_05182023@1024b-108	NA	05/17/23 16:17
Cal Standard	SLE0270-CAL9	CubeData_05182023@1024b-109	NA	05/17/23 16:47
Cal Standard	SLE0270-CALA	CubeData_05182023@1024b-110	NA	05/17/23 17:17
Cal Standard	SLE0270-CALB	CubeData_05182023@1024b-111	NA	05/17/23 17:47
Cal Standard	SLE0270-CALC	CubeData_05182023@1024b-112	NA	05/17/23 18:18
Cal Standard	SLE0270-CALD	CubeData_05182023@1024b-113	NA	05/17/23 18:48
Cal Standard	SLE0270-CALE	CubeData_05182023@1024b-114	NA	05/17/23 19:18
Cal Standard	SLE0270-CALF	CubeData_05182023@1024b-115	NA	05/17/23 19:48
Cal Standard	SLE0270-CALG	CubeData_05182023@1024b-116	NA	05/17/23 20:18
Cal Standard	SLE0270-CALH	CubeData_05182023@1024b-117	NA	05/17/23 20:48
Cal Standard	SLE0270-CALI	CubeData_05182023@1024b-118	NA	05/17/23 21:19
Cal Standard	SLE0270-CALJ	CubeData_05182023@1024b-119	NA	05/17/23 21:49
Cal Standard	SLE0270-CALK	CubeData_05182023@1024b-120	NA	05/17/23 22:19
Initial Cal Check	SLE0270-ICV1	CubeData_05182023@1024b-128	NA	05/18/23 02:21
Initial Cal Blank	SLE0270-ICB1	CubeData_05182023@1024b-127	NA	05/18/23 02:51
Calibration Check	SLE0270-CCV1	CubeData_05182023@1024b-126	NA	05/18/23 04:21
Calibration Blank	SLE0270-CCB1	CubeData_05182023@1024b-125	NA	05/18/23 04:52
Cal Standard	SLE0270-CALL	CubeData_05182023@1024b-121	NA	05/18/23 09:47
Cal Standard	SLE0270-CALM	CubeData_05182023@1024b-122	NA	05/18/23 09:48
Cal Standard	SLE0270-CALN	CubeData_05182023@1024b-123	NA	05/18/23 09:49
Cal Standard	SLE0270-CALO	CubeData_05182023@1024b-124	NA	05/18/23 09:49

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	5/ 17/2023 11:46 AM	bl	0.000	83 718	0.000	0.000	65 731	251 400	0.000	0.000	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

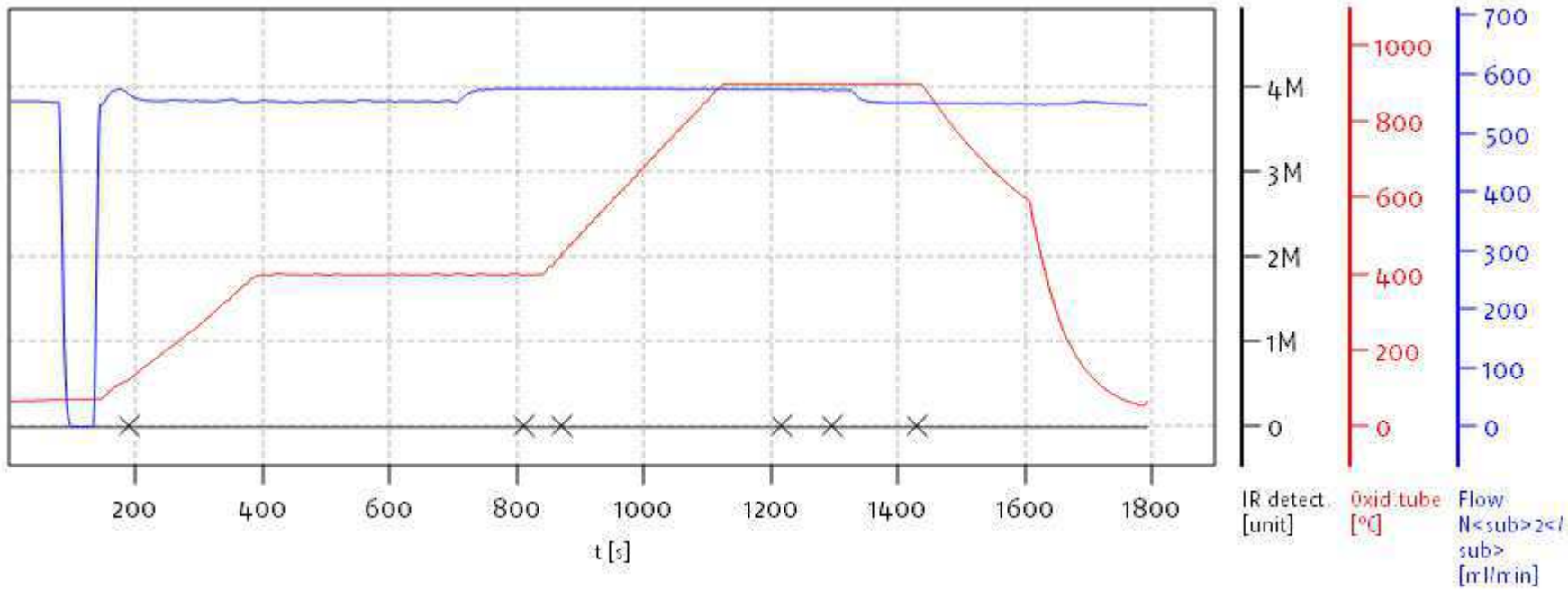
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		CARBON	5/ 17/2023 12:16 PM	bl	0.000	3 043	0.000	0.000	273	1	0.000	0.000	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

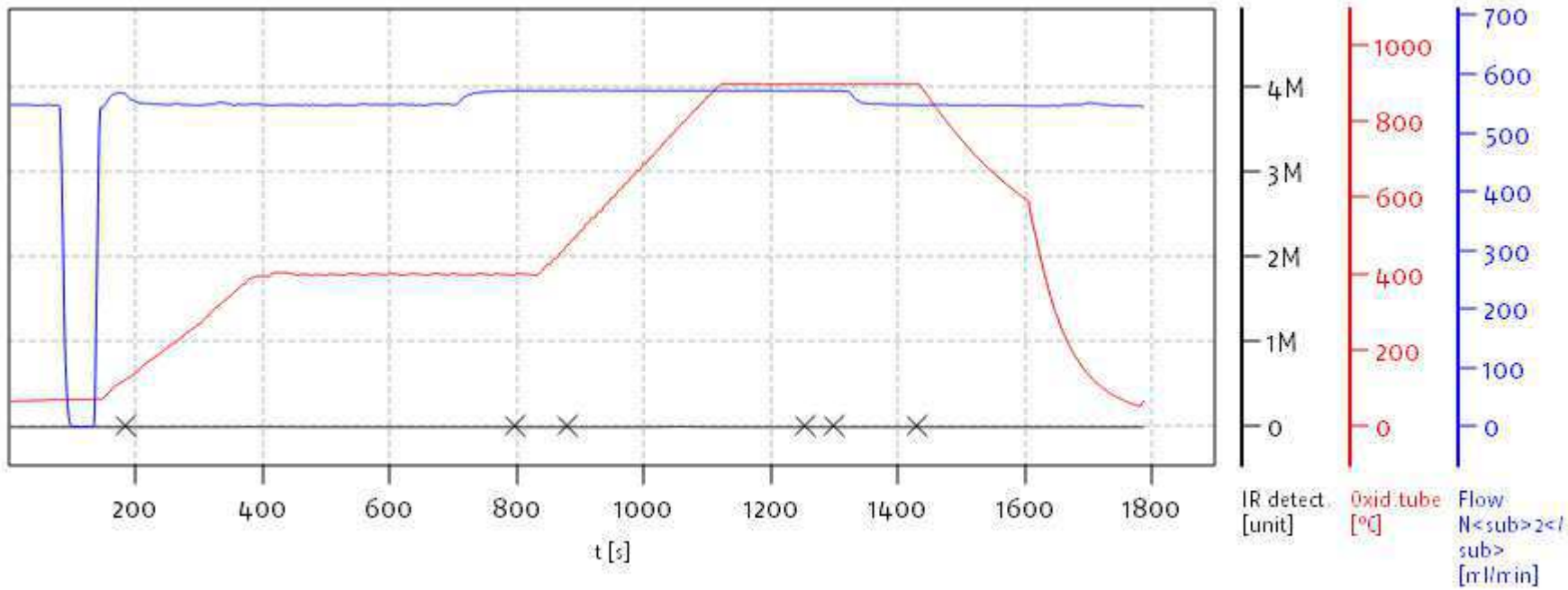
elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	SLE0270-CAL1	200.00	0.0025	CARBON	5/17/2023 12:46 PM	bl,C2u	0.014	12 167	0.024	0.002	431	10 396	0.012	0.010	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

elementar
EXCELLENCE IN ELEMENTS

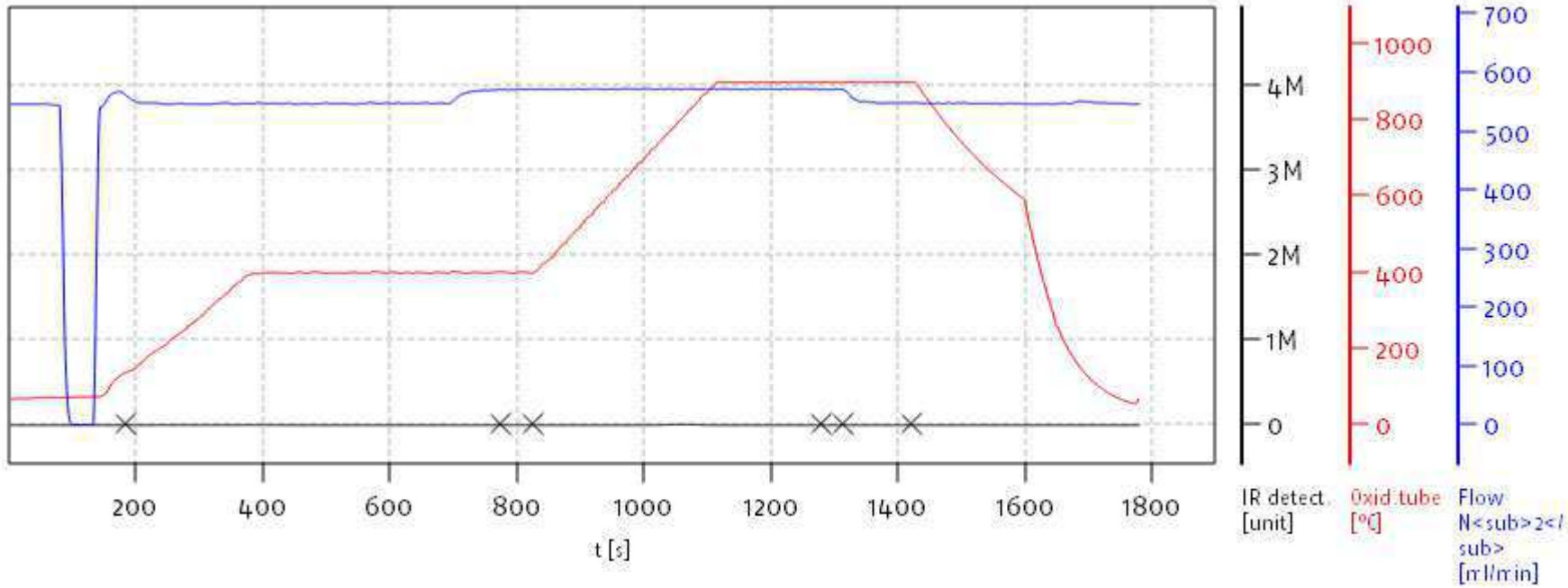
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLE0270-CAL2	200.00	0.0050	CARBON	5/17/2023 1:16 PM	bl,C2u	0.013	10 893	0.029	0.002	141	18 320	0.011	0.017	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

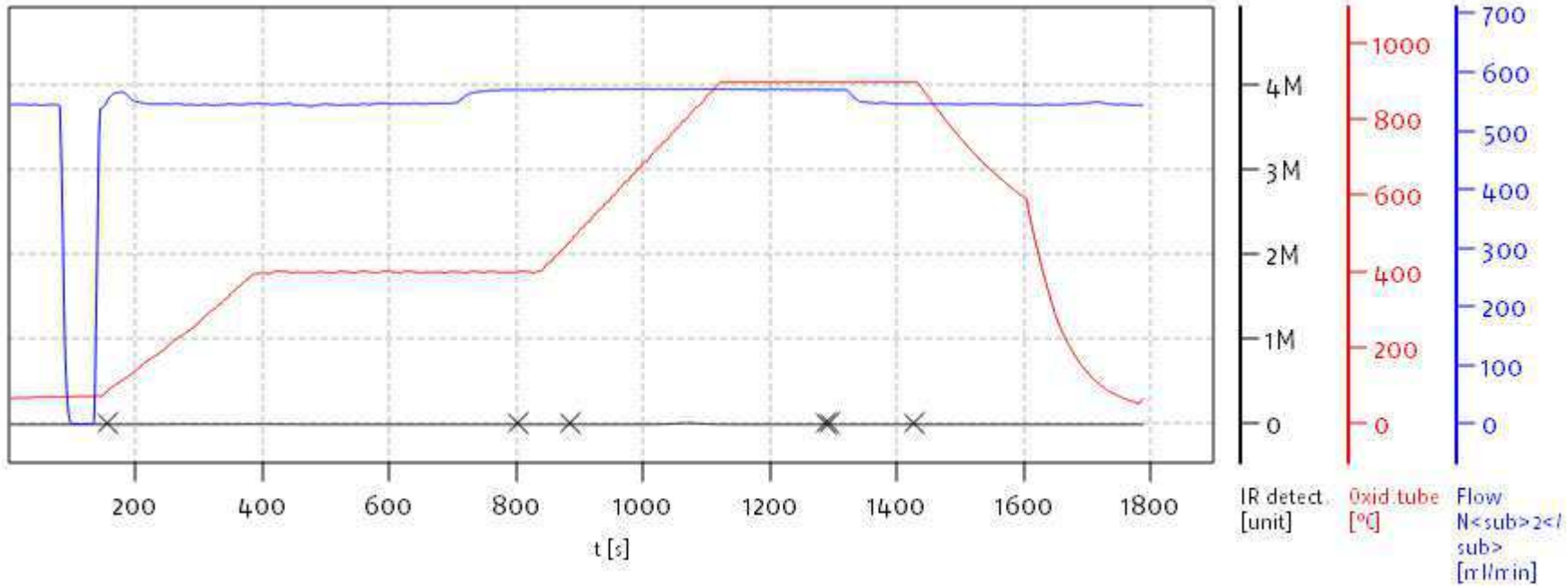
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLE0270-CAL3	200.00	0.0070	CARBON	5/17/2023 1:46 PM	bl,C2u	0.018	16 667	0.043	0.002	387	29 873	0.015	0.026	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

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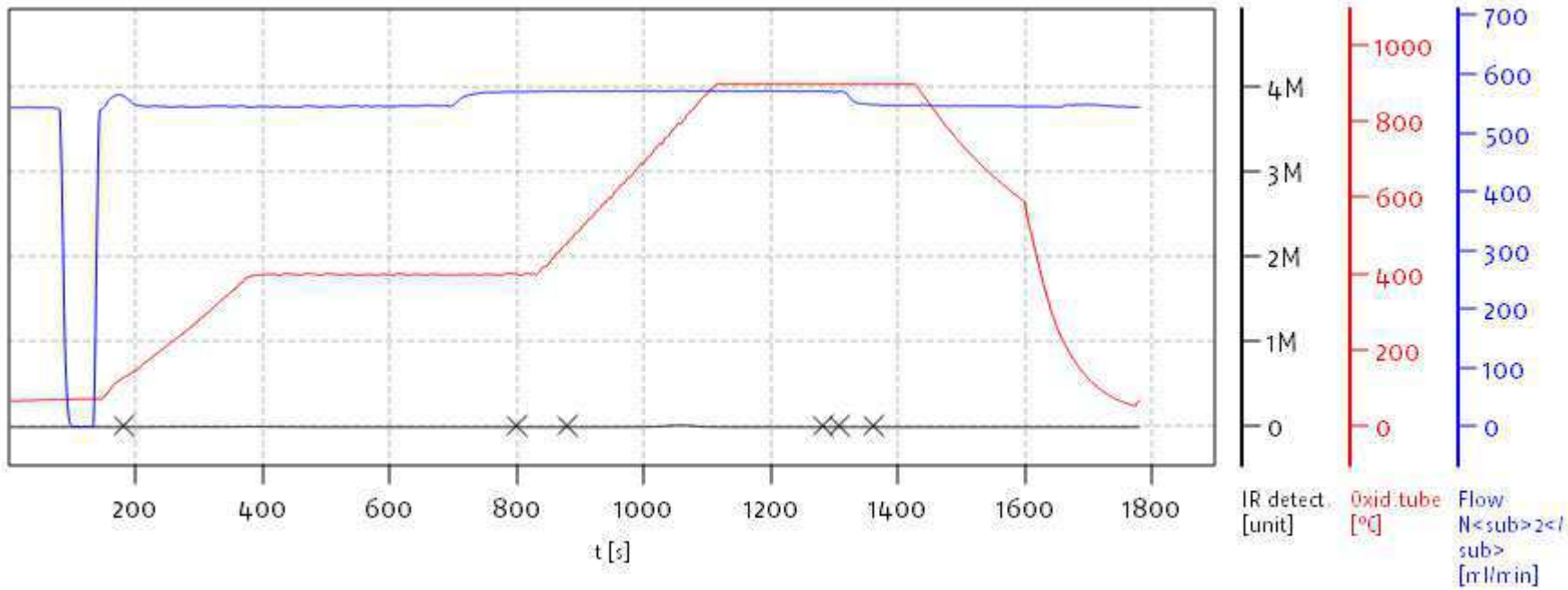
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	SLE0270-CAL4	200.00	0.0100	CARBON	5/17/2023 2:16 PM	bl,C2u	0.024	24 980	0.062	0.002	130	45 873	0.022	0.038	1.0000	1.0000



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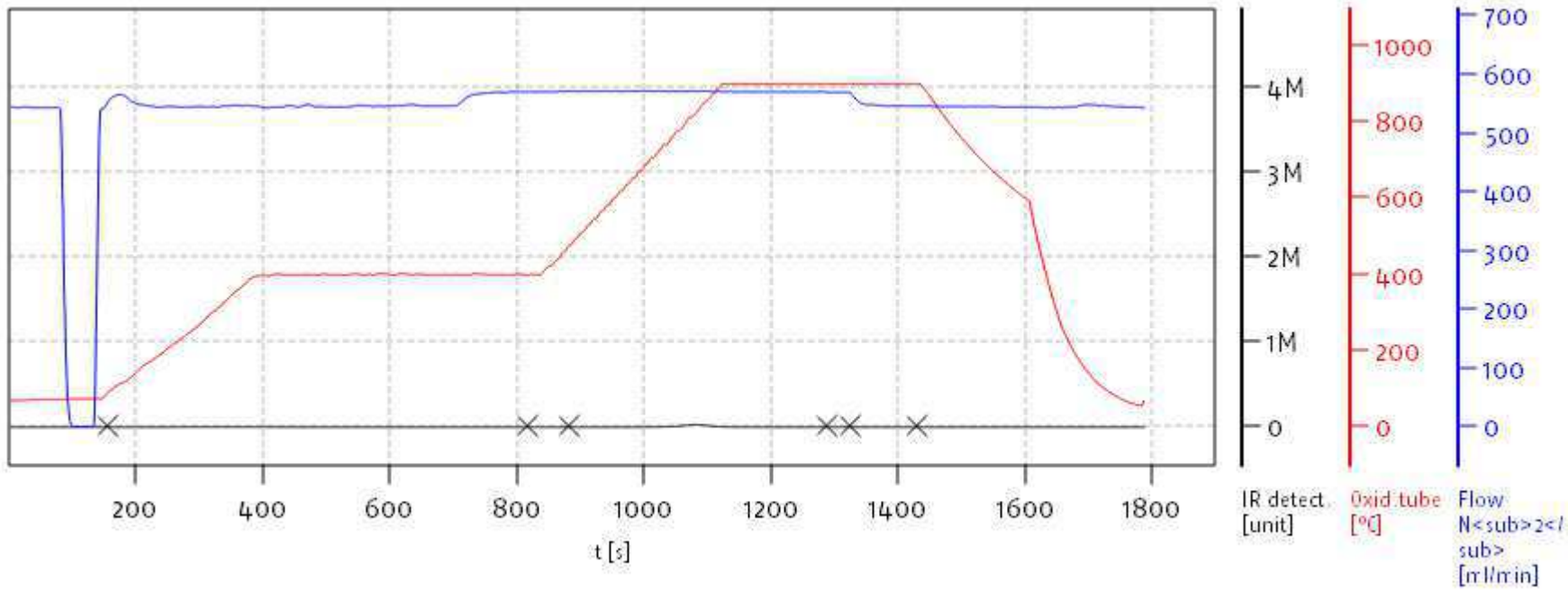
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	SLE0270-CAL5	200.00	0.0150	CARBON	5/17/2023 2:47 PM	bl,C2u	0.014	12 413	0.065	0.002	539	61 573	0.012	0.051	1.0000	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
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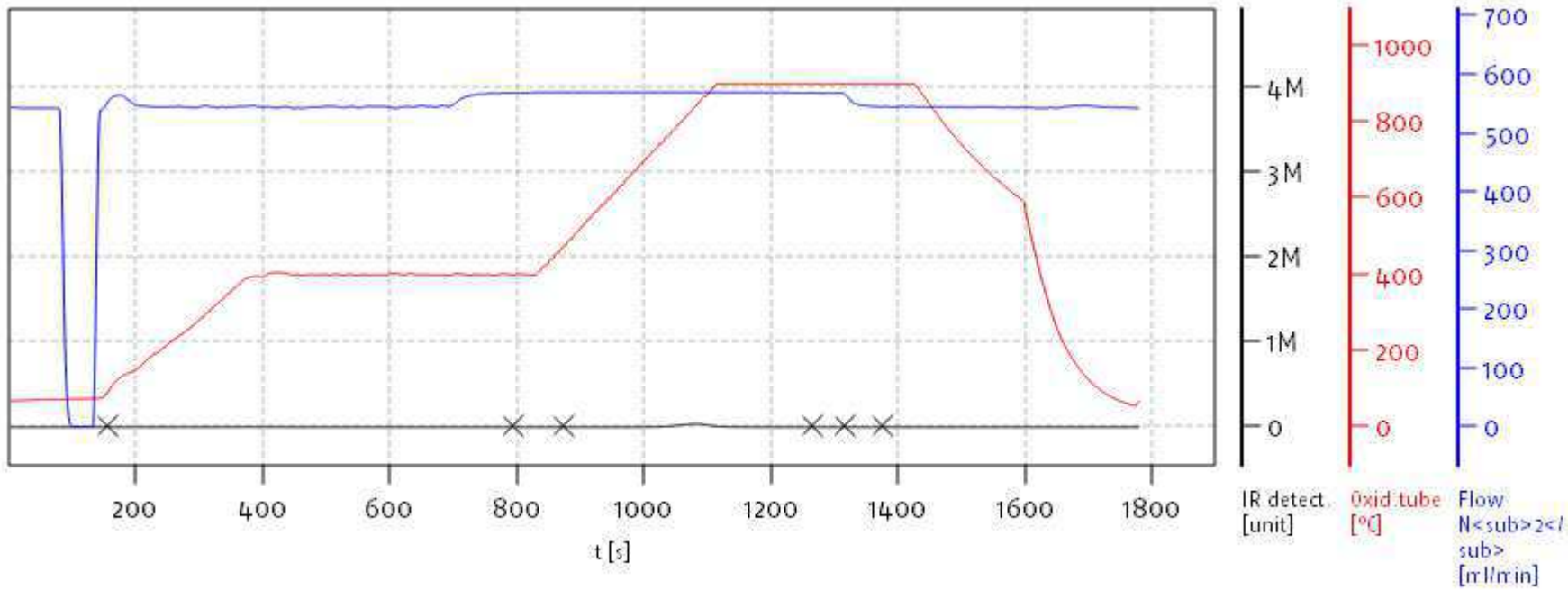
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	SLE0270-CAL6	200.00	0.0200	CARBON	5/17/2023 3:17 PM	bl,C1u,C2u	0.011	7 999	0.079	0.002	170	84 086	0.008	0.068	1.0000	1.0000



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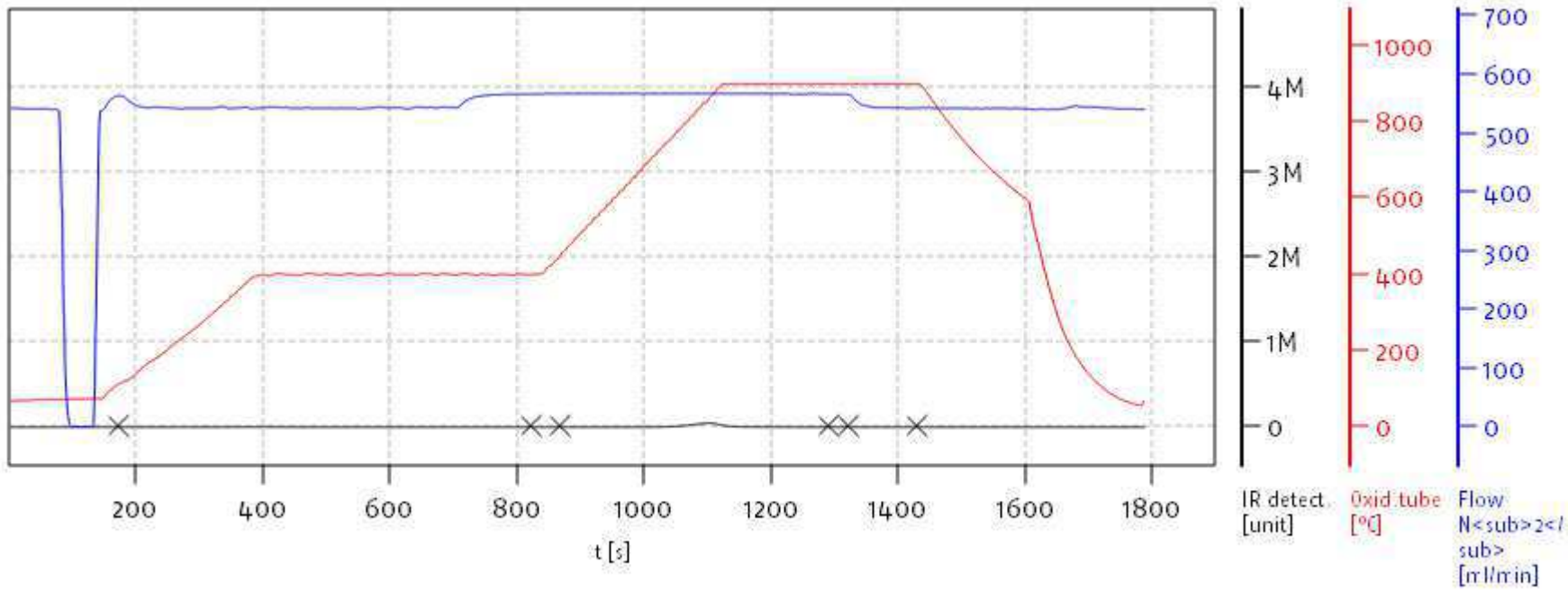
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	SLE0270-CAL7	200.00	0.0250	CARBON	5/17/2023 3:47 PM	bl,C1u,C2u	0.011	7 612	0.097	0.003	1 386	105 588	0.008	0.085	1.0000	1.0000



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Balance: BAL3
Analyst: CDE

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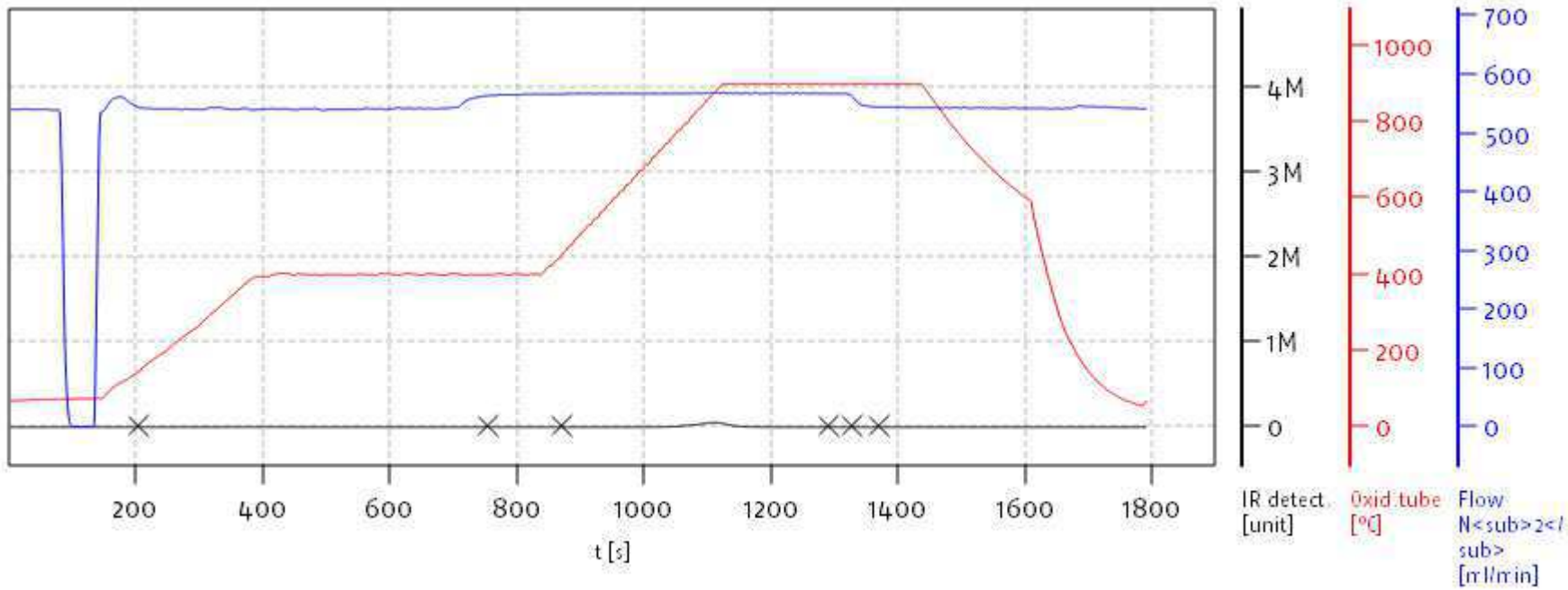
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	SLE0270-CAL8	200.00	0.0300	CARBON	5/17/2023 4:17 PM	bl,C1u,C2u	0.008	5 428	0.109	0.002	61	124 731	0.006	0.100	1.0000	1.0000



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Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

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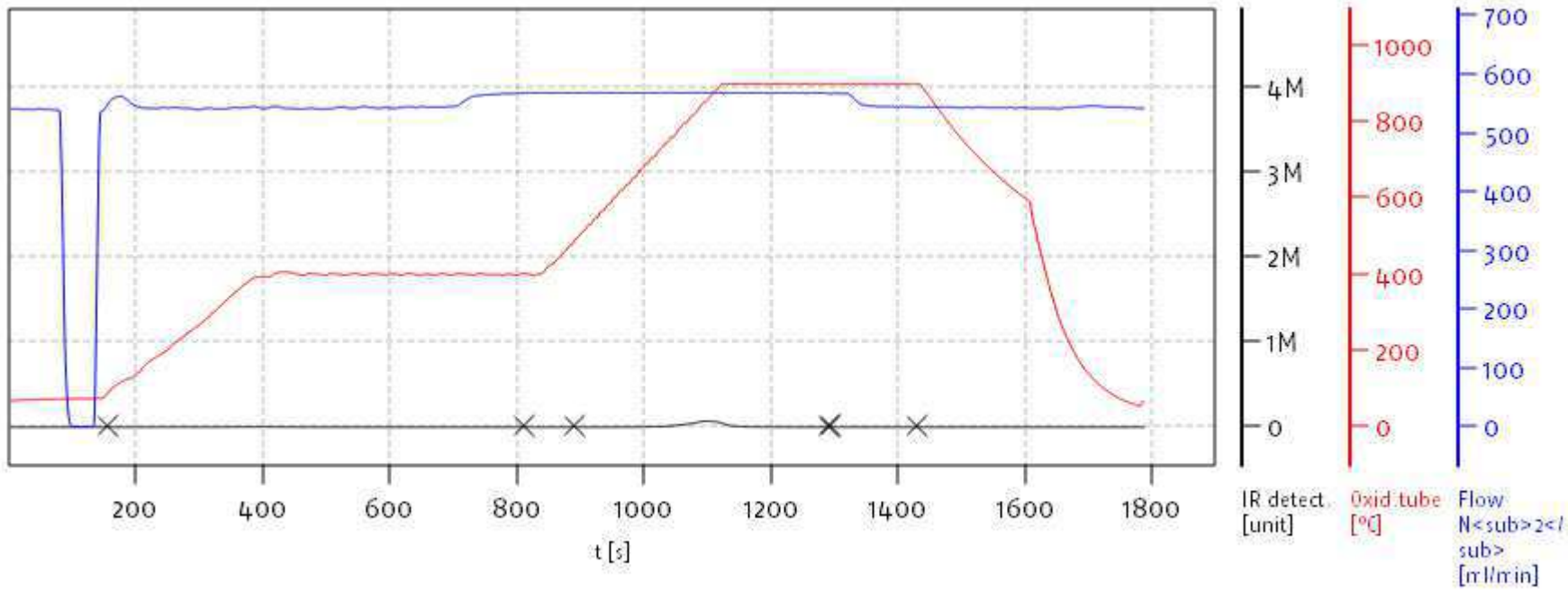
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	SLE0270-CAL9	200.00	0.0400	CARBON	5/17/2023 4:47 PM	bl,C2u	0.019	17 233	0.167	0.003	1 274	185 567	0.016	0.148	1.0000	1.0000



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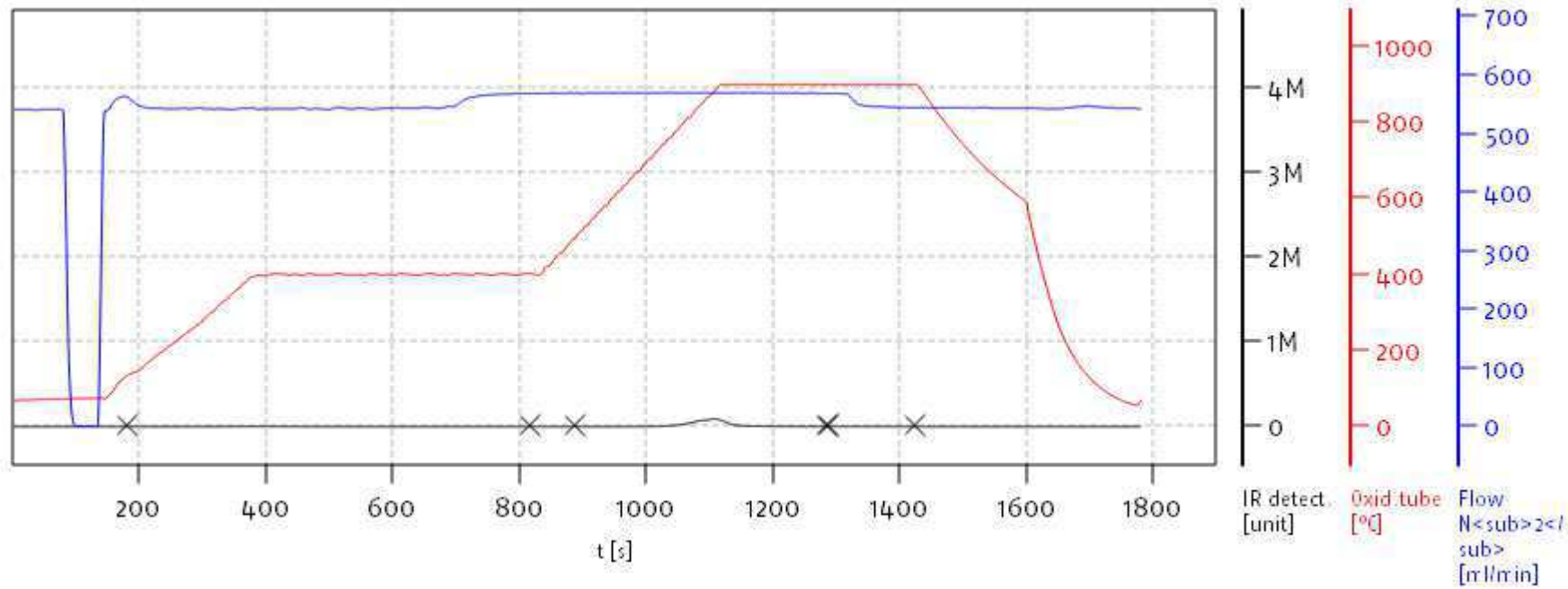
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	SLE0270-CALA	200.00	0.0500	CARBON	5/17/2023 5:17 PM	bl,C2u	0.018	11 766	0.202	0.007	6 123	230 855	0.011	0.184	1.0000	1.0000



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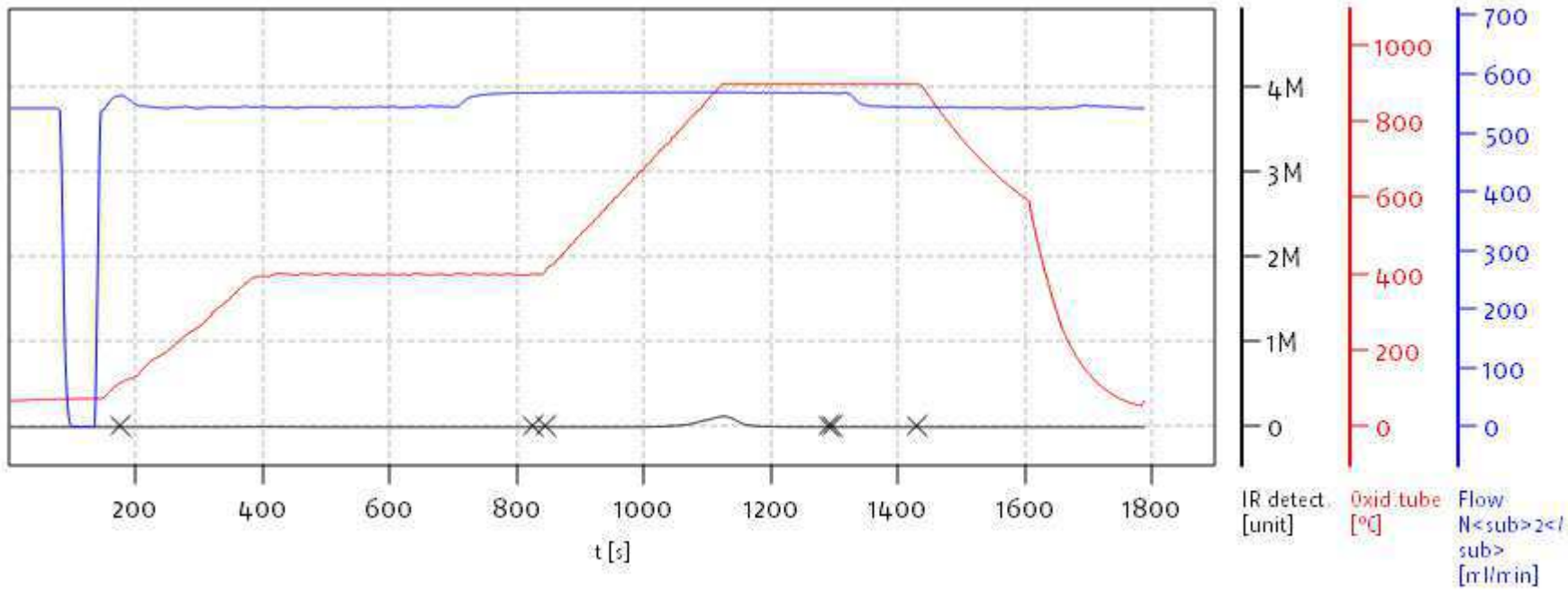
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	SLE0270-CALB	200.00	0.0040	CARBON	5/17/2023 5:47 PM	bl,C2u	0.022	18 635	0.291	0.005	3 969	339 170	0.017	0.269	1.0000	1.0000



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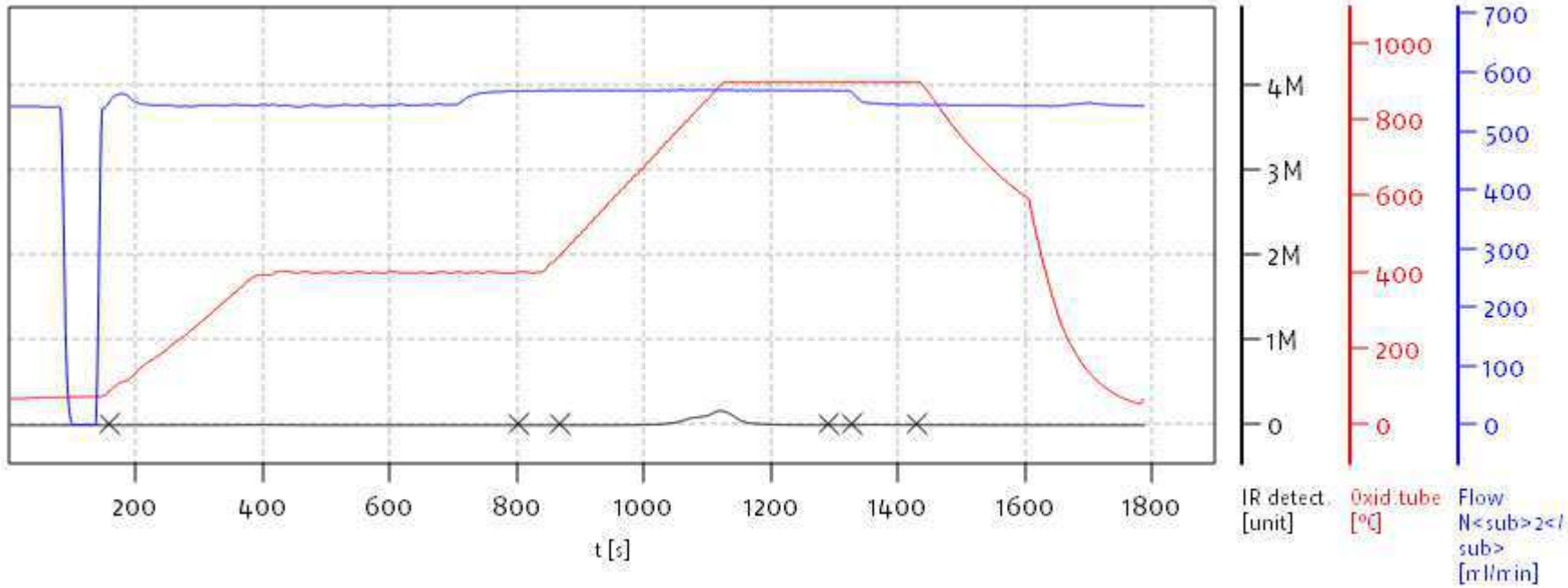
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	SLE0270-CALC	200.00	0.0050	CARBON	5/17/2023 6:18 PM	bl	0.026	14 893	0.405	0.012	12 639	478 044	0.014	0.379	1.0000	1.0000



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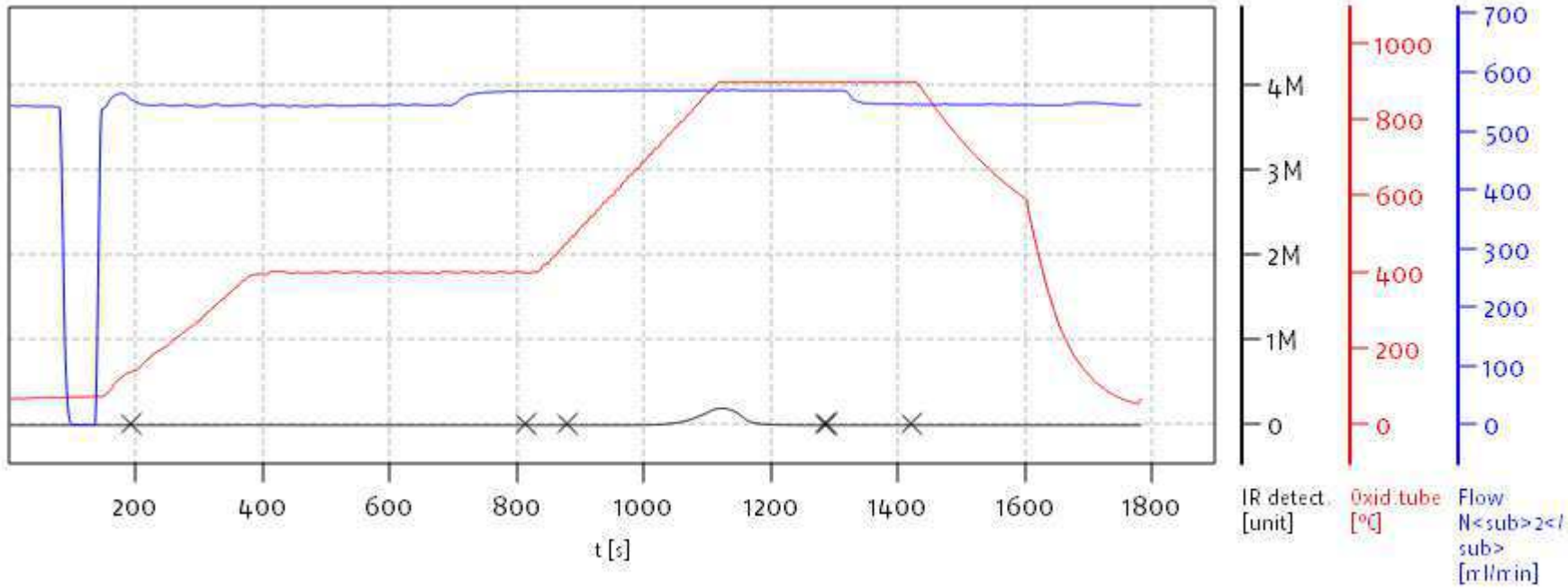
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	SLE0270-CALD	200.00	0.0070	CARBON	5/17/2023 6:48 PM	bl,C1u,C2u	0.010	6 787	0.465	0.002	420	574 876	0.007	0.455	1.0000	1.0000



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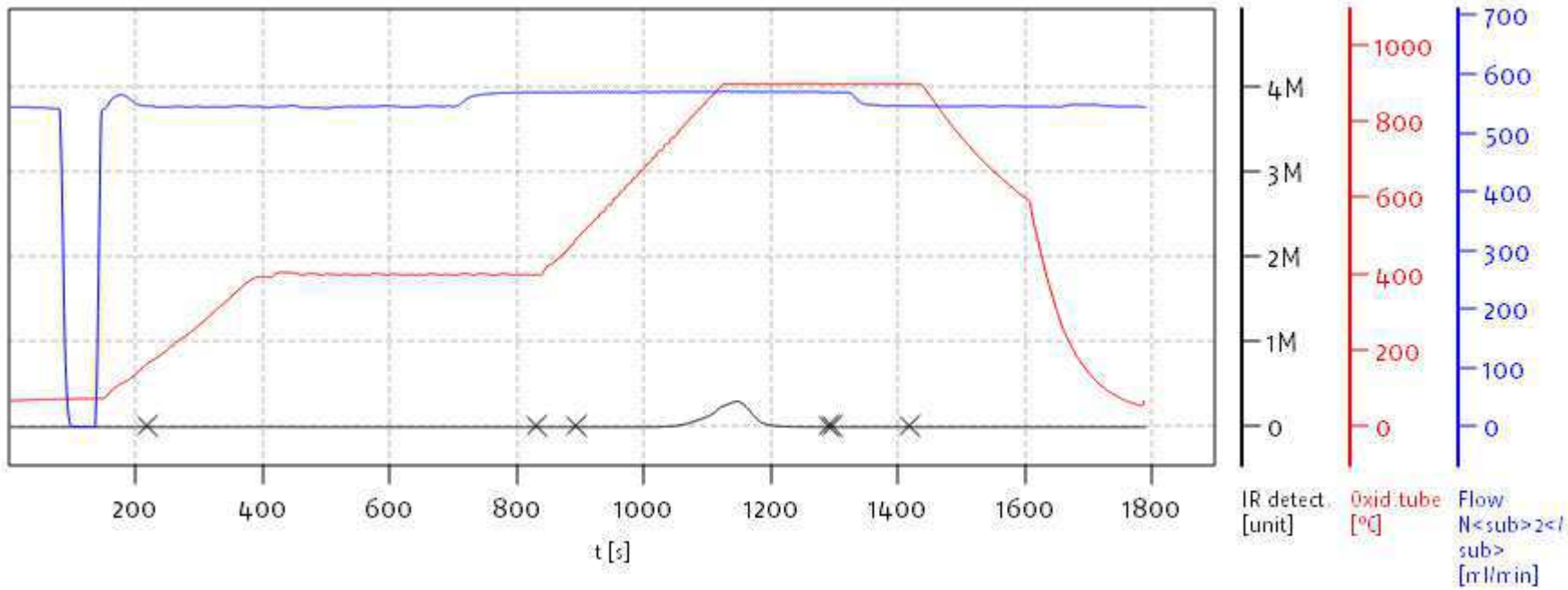
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLE0270-CALE	200.00	0.0100	CARBON	5/17/2023 7:18 PM	bl,C1u,C2u	0.008	4 408	0.667	0.003	771	832 670	0.006	0.658	1.0000	1.0000



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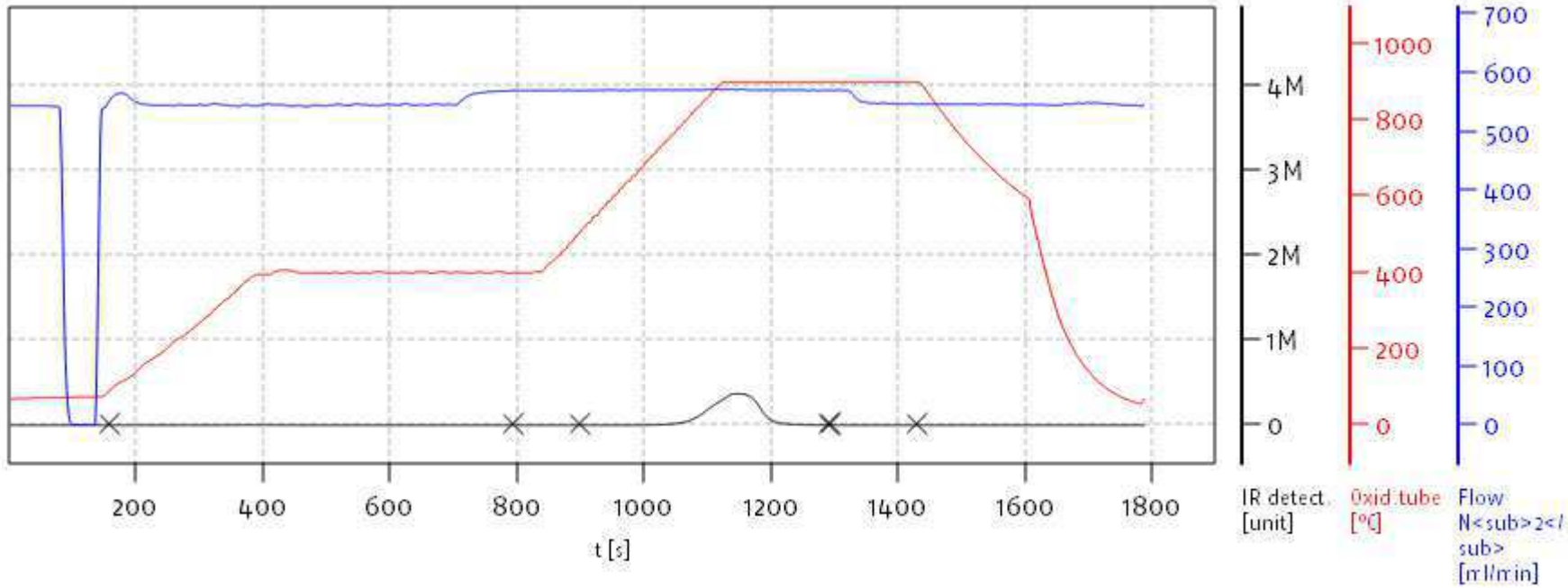
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLE0270-CALF	200.00	0.0150	CARBON	5/17/2023 7:48 PM	bl,C1u,C2u	0.012	8 494	0.984	0.003	1 464	1 230 304	0.009	0.972	1.0000	1.0000



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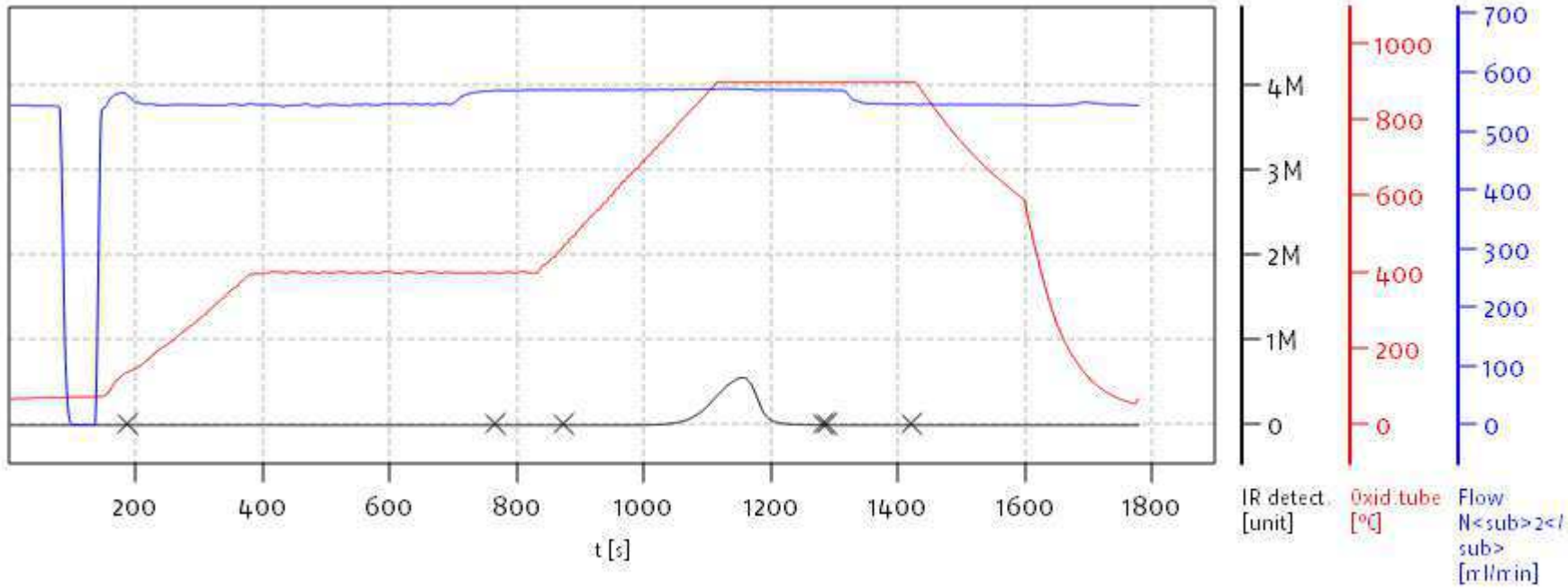
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	SLE0270-CALG	200.00	0.0200	CARBON	5/17/2023 8:18 PM	bl,C1u,C2u	0.010	5 359	1.331	0.004	1 864	1 673 425	0.006	1.321	1.0000	1.0000



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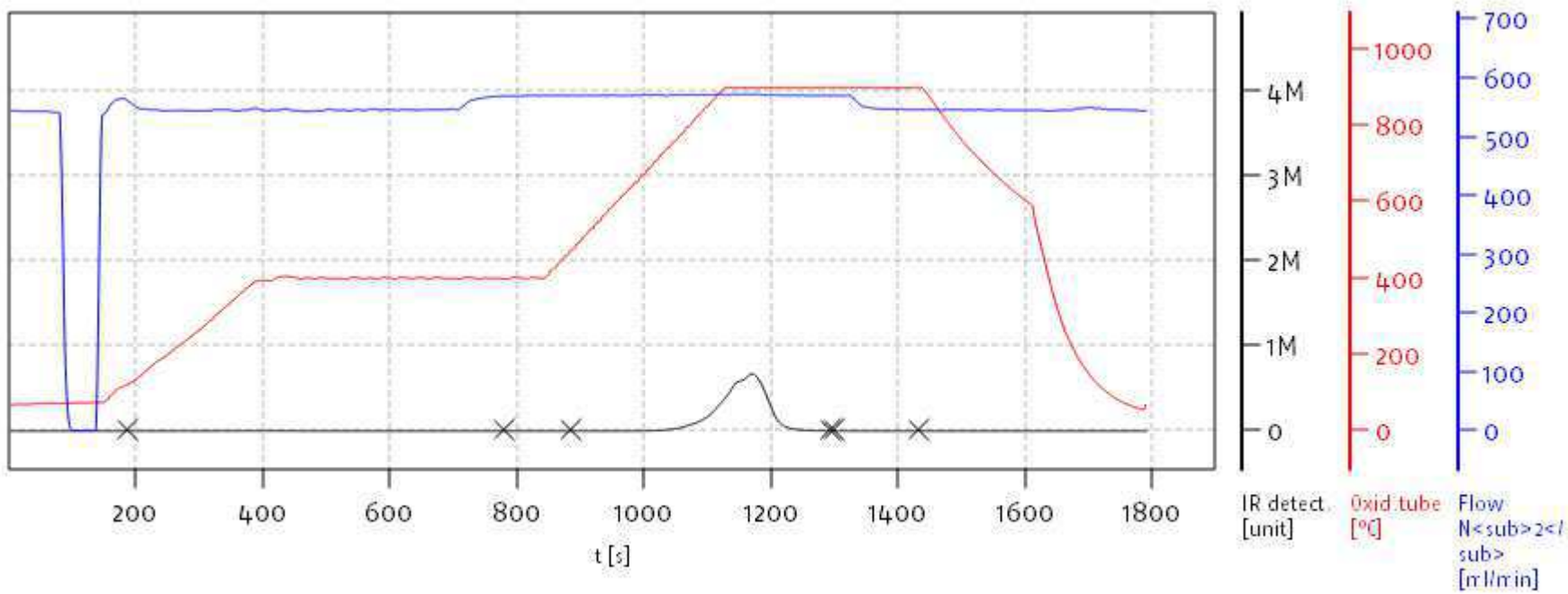
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	SLE0270-CALH	200.00	0.0250	CARBON	5/17/2023 8:48 PM	bl,C2u	0.015	11 407	1.659	0.004	2 280	2 083 004	0.011	1.644	1.0000	1.0000



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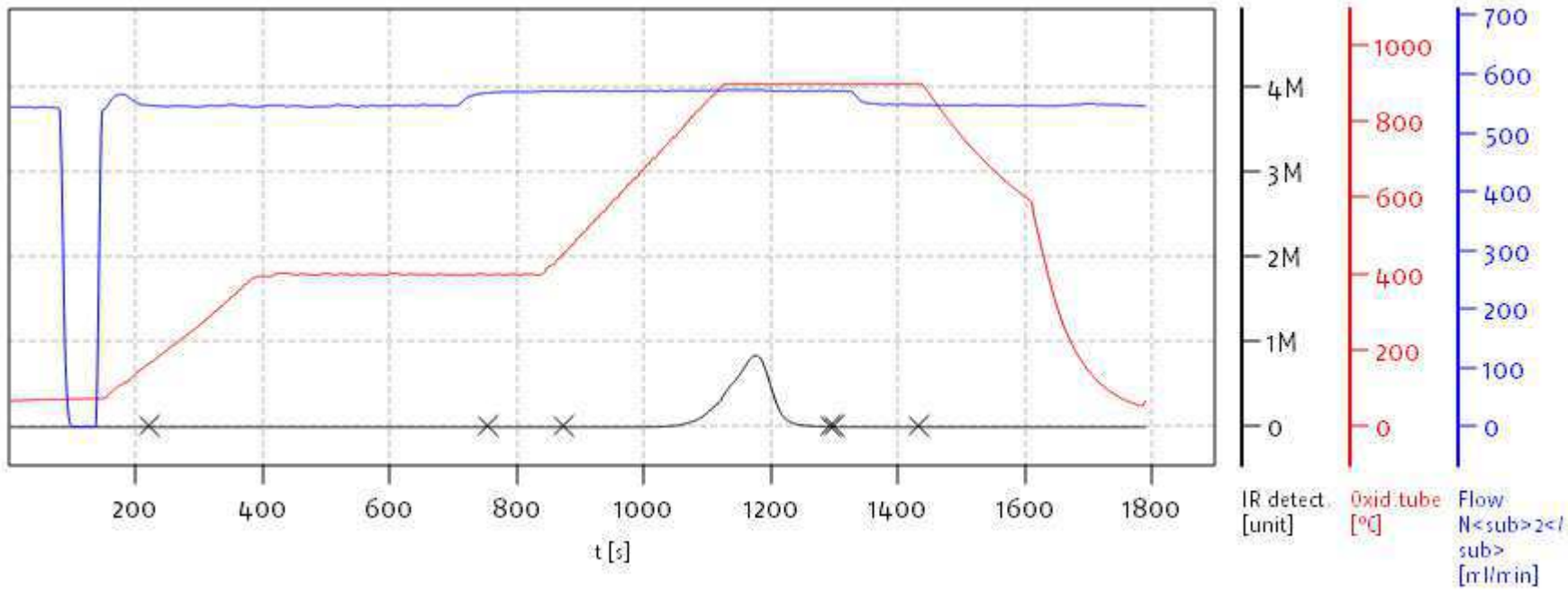
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	SLE0270-CALI	200.00	0.0300	CARBON	5/17/2023 9:19 PM	bl,C1u,C2u	0.009	2 781	1.981	0.005	3 895	2 498 427	0.004	1.971	1.0000	1.0000



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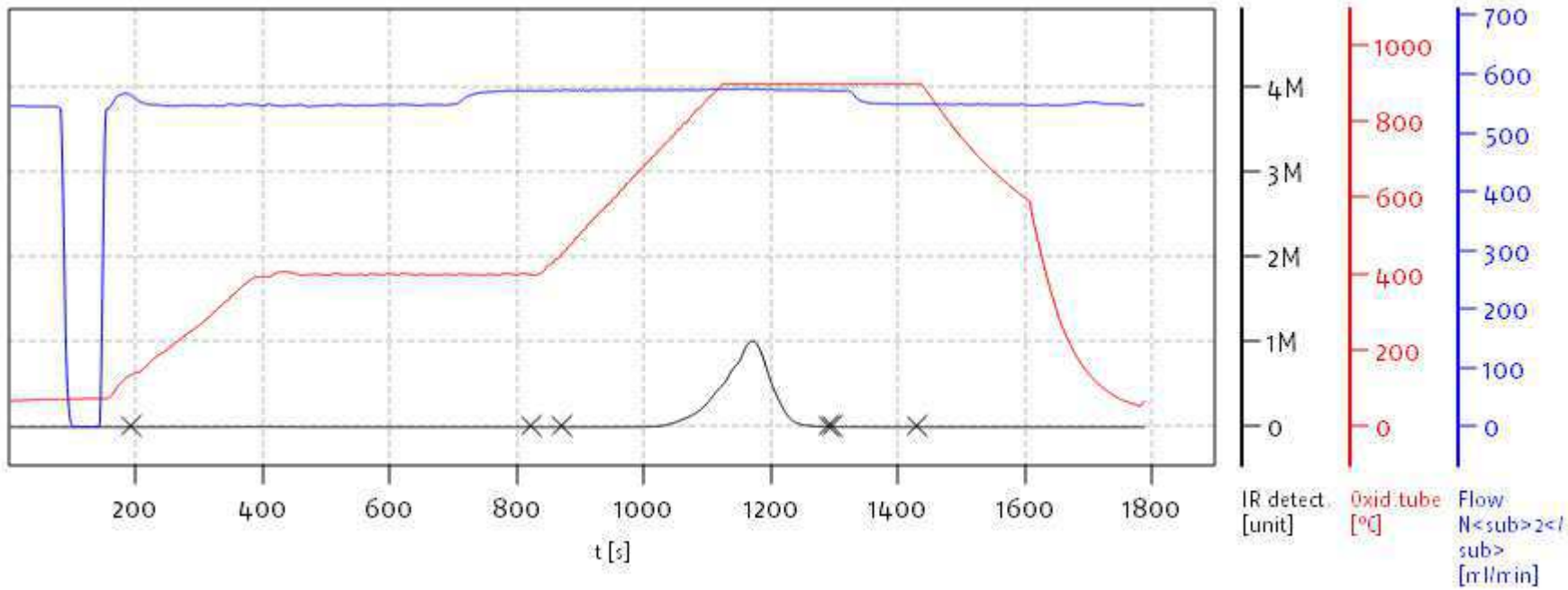
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	SLE0270-CALJ	200.00	0.0400	CARBON	5/17/2023 9:49 PM	bl,C2u	0.018	13 295	2.629	0.006	4 807	3 309 588	0.013	2.611	1.0000	1.0000



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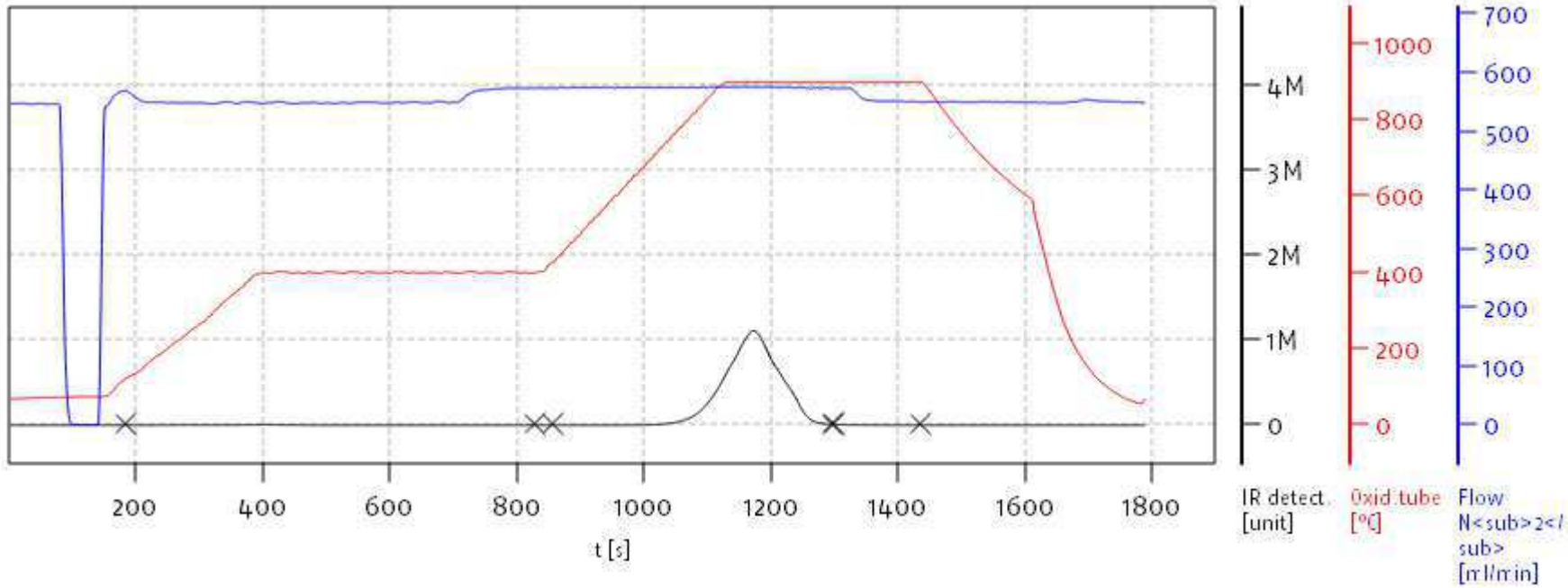
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	SLE0270-CALK	200.00	0.0500	CARBON	5/17/2023 10:19 PM	bl	0.031	25 022	3.285	0.009	9 148	4 126 050	0.022	3.254	1.0000	1.0000



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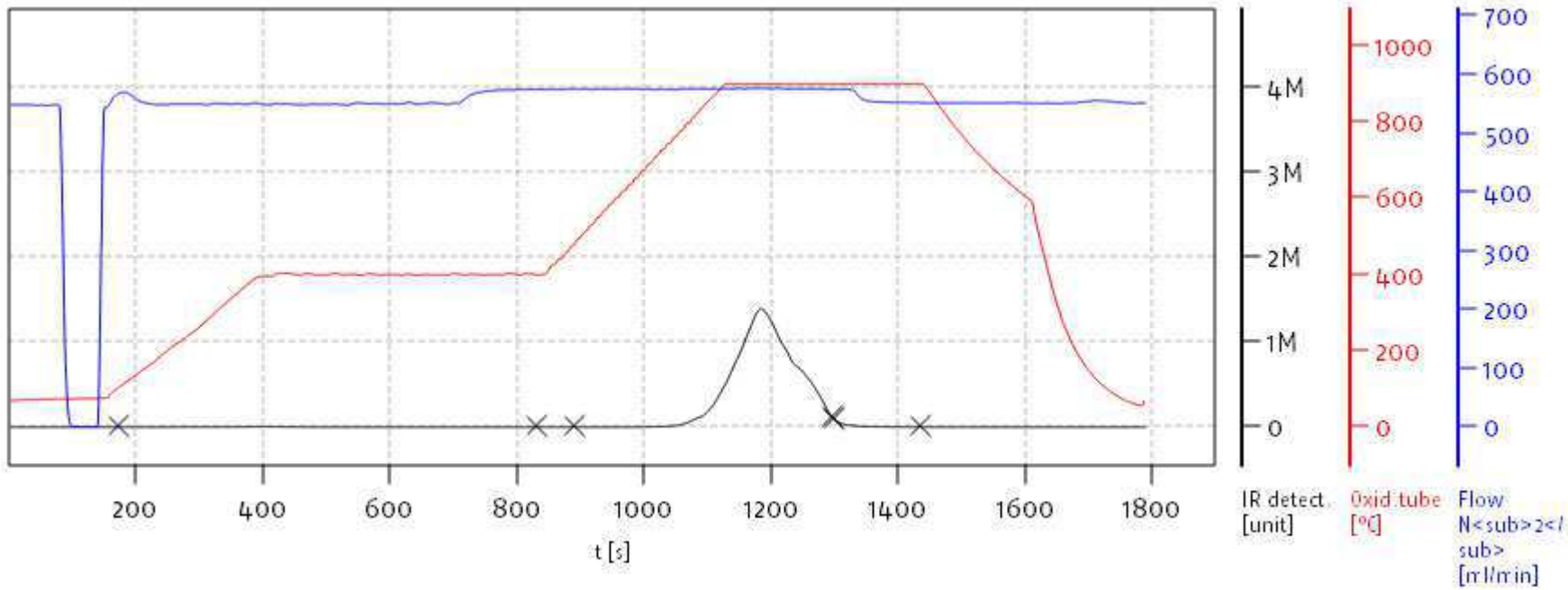
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/17/2023 10:49 PM	bl	0.069	21 598	4.597	0.050	60 794	5 741 652	0.019	4.528	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

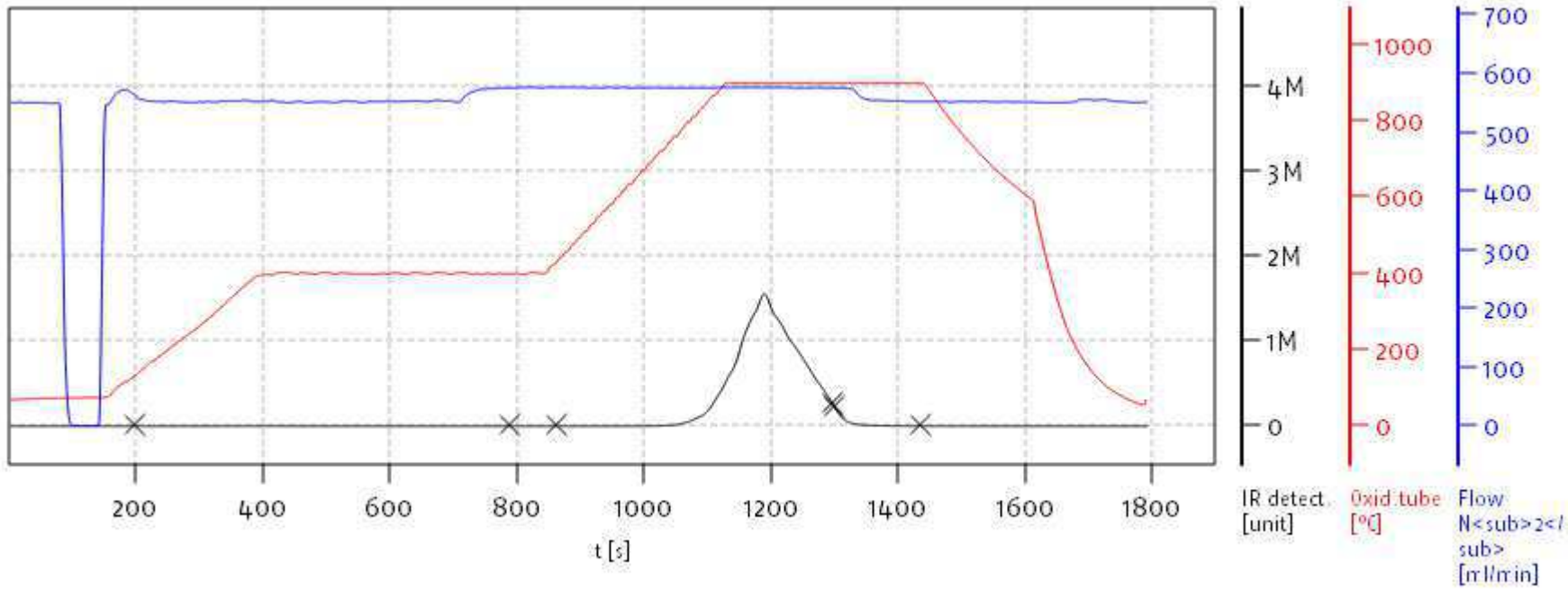
elementar
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/17/2023 11:19 PM	bl,C1u	0.112	5 408	5.212	0.106	131 494	6 467 914	0.006	5.100	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

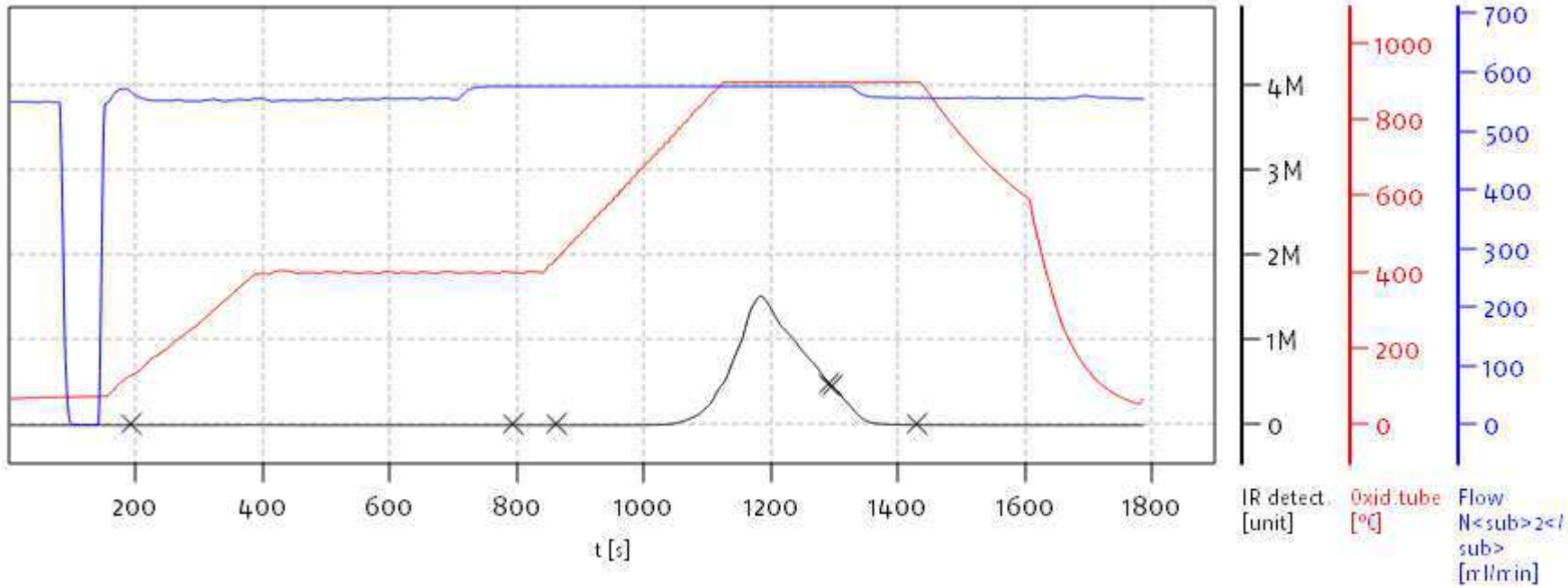
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/17/2023 11:50 PM	bl	0.408	8 745	5.832	0.399	503 842	6 879 212	0.009	5.424	1.0000	1.0000



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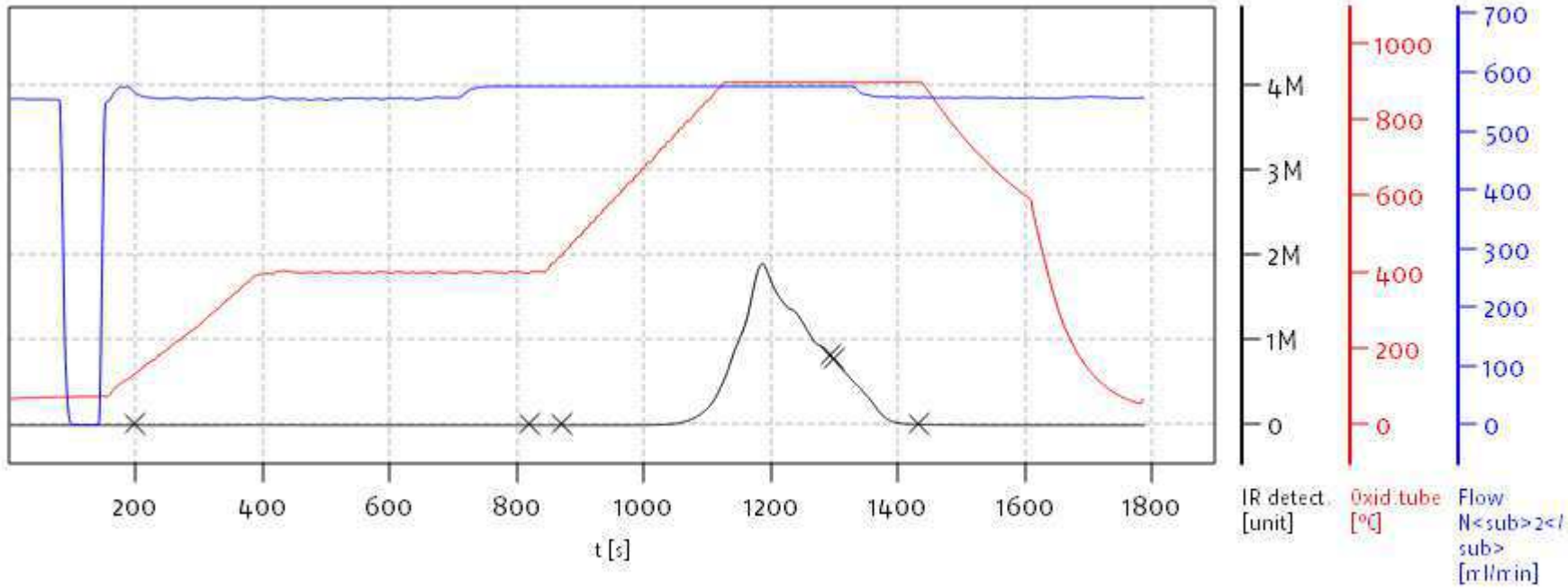
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 12:20 AM	bl,C1u	1.074	6 993	7.759	1.066	1 350 231	8 478 912	0.008	6.685	1.0000	1.0000



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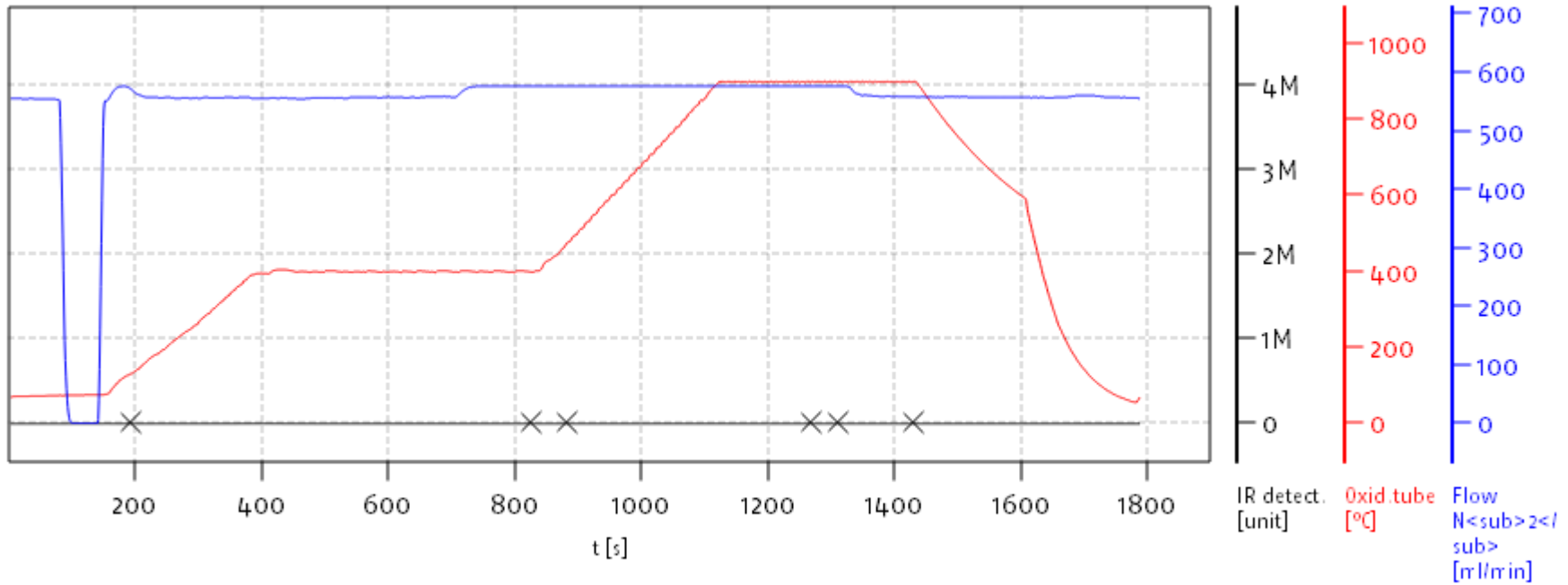
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		CARBON	5/ 18/2023 12:50 AM	bl	0.000	5 379	0.000	0.000	0	959	0.000	0.000	1.0000	1.0000



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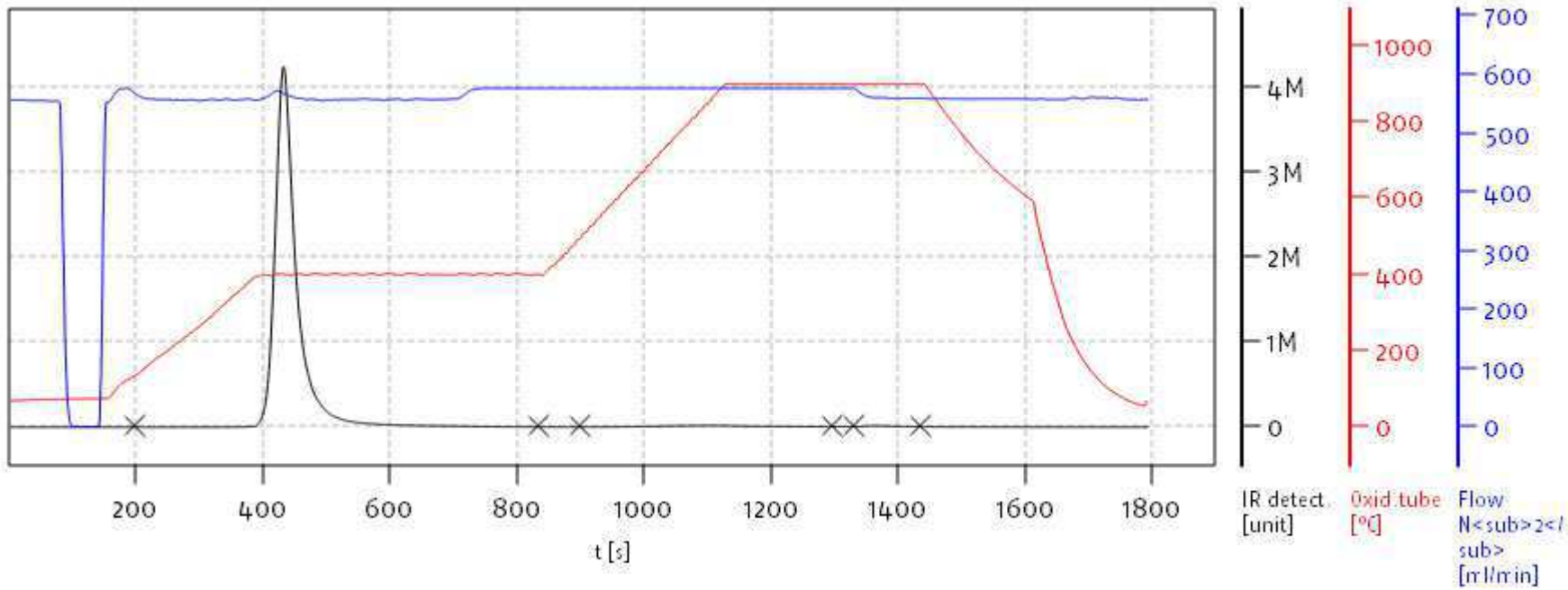
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	Dfactor	21.70		CARBON	5/18/2023 1:20 AM	bl	44.736	6 218 209	45.755	0.291	37 376	137 647	44.446	1.019	0.9835	1.0000



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Balance: BAL3
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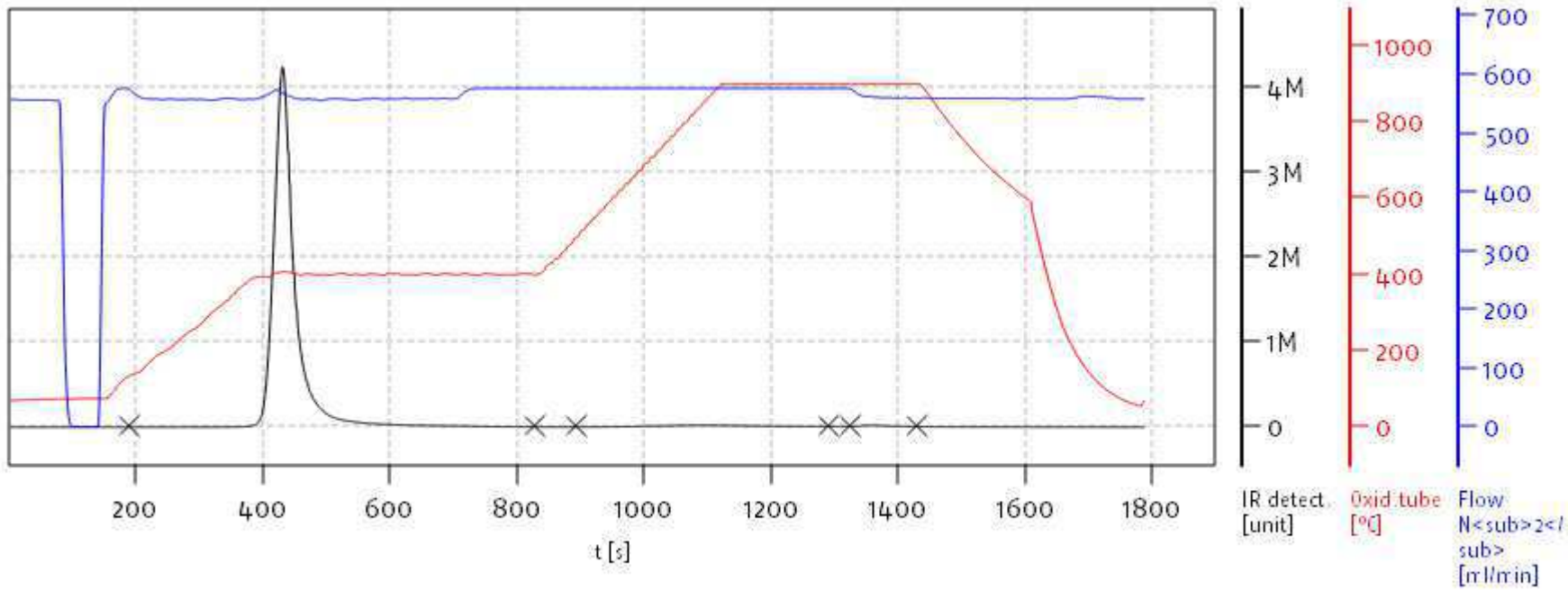
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	Dfactor	21.20		CARBON	5/18/2023 1:50 AM	bl	44.824	6 030 884	46.116	0.378	48 254	171 095	44.446	1.292	0.9907	1.0000



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Date: Thu May 18 09:43:39 2023

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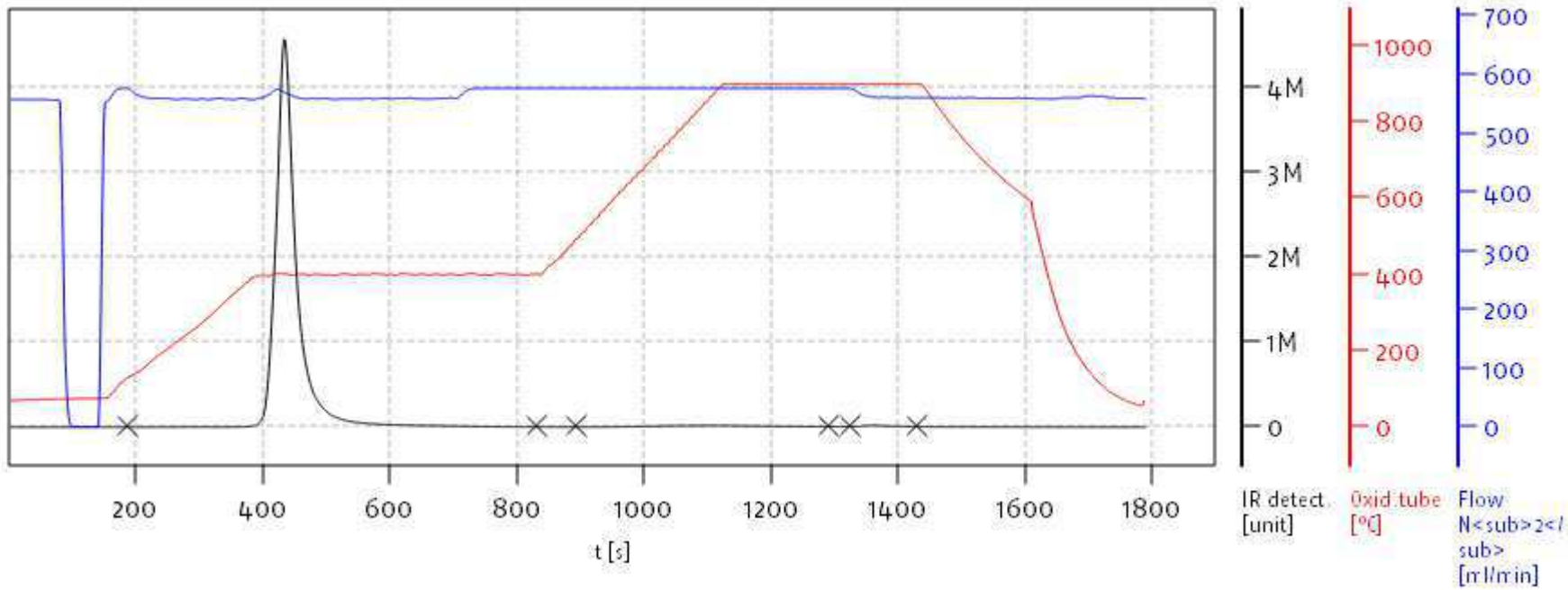
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	SLE0270-ICV1	22.30		CARBON	5/18/2023 2:21 AM	bl	44.949	6 392 325	46.022	0.327	43 597	149 127	44.622	1.073	0.9871	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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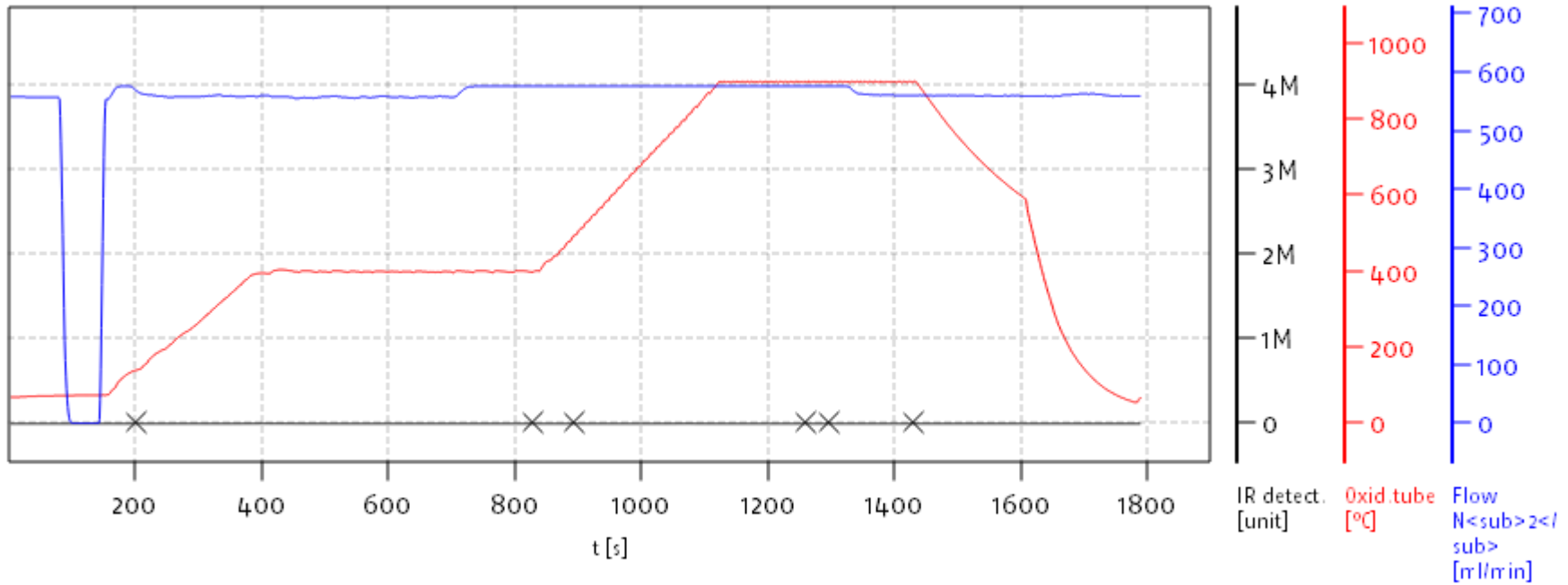
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	SLE0270-ICB1	530.50		CARBON	5/18/2023 2:51 AM	bl,C1u,C3u,C2u	0.003	6 198	0.005	0.001	198	1 900	0.003	0.001	0.9871	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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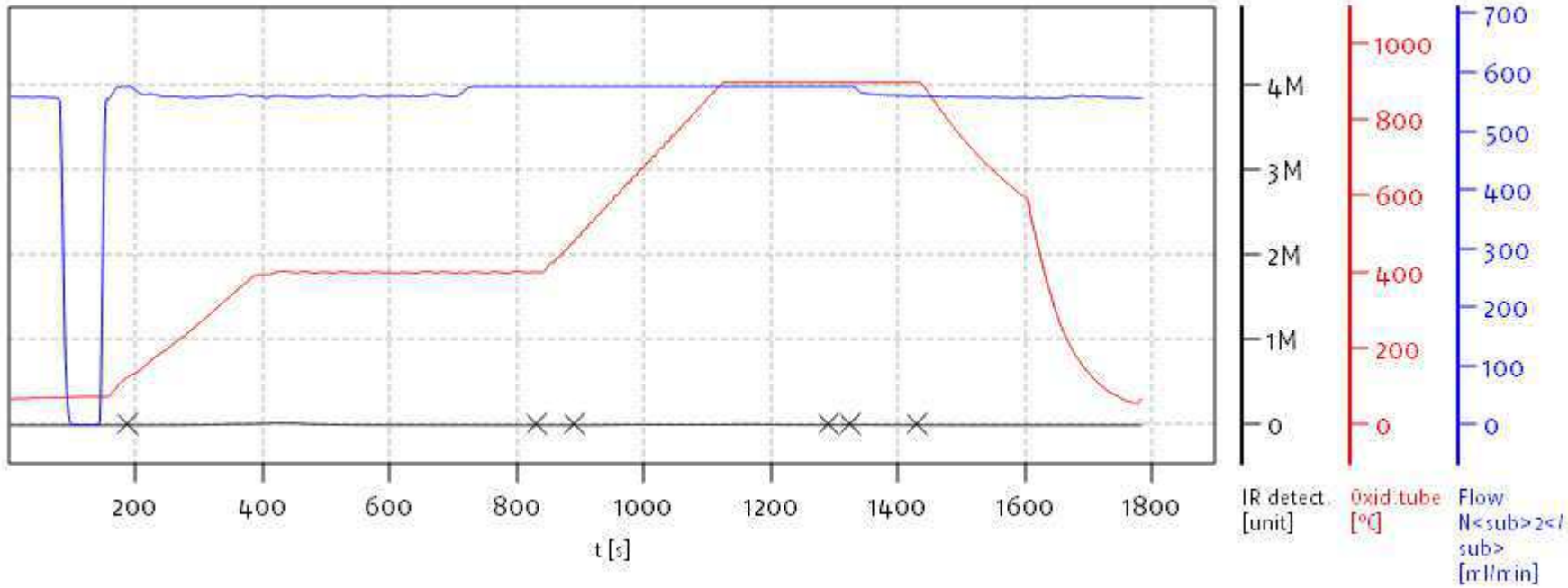
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23D0491-10	42.50		CARBON	5/18/2023 3:21 AM	bl	0.560	138 129	0.841	0.044	9 353	73 148	0.515	0.281	0.9871	1.0000



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Serial No: 0300.181017
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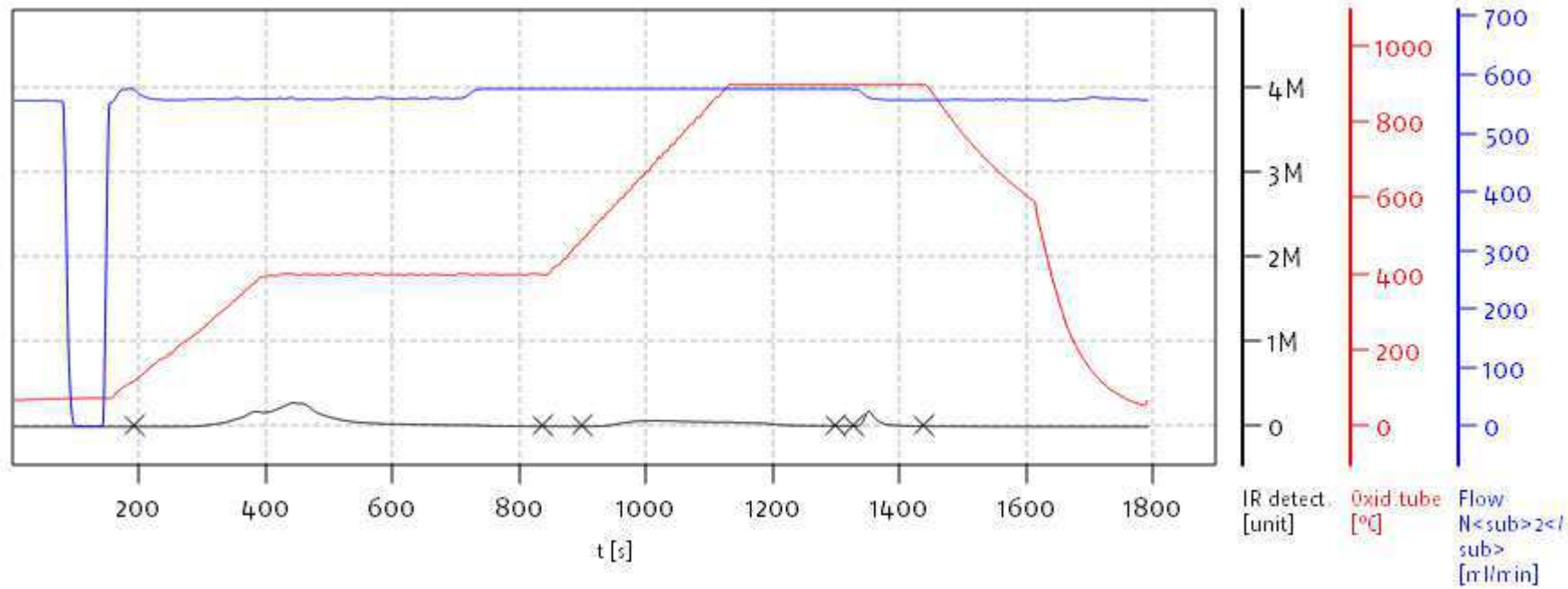
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23D0491-10RE1	505.50		CARBON	5/18/2023 3:51 AM	bl	0.513	1 489 627	0.692	0.054	169 645	569 728	0.459	0.178	0.9871	1.0000



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Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

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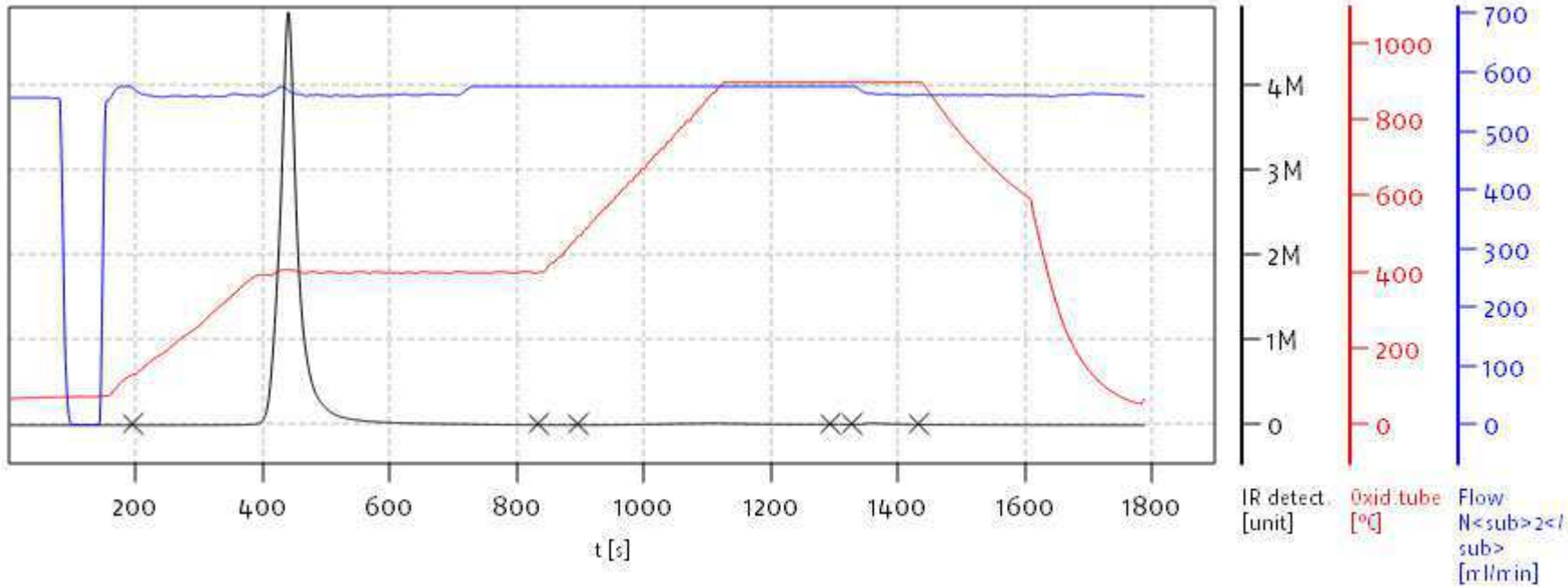
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	SLE0270-CCV1	22.20		CARBON	5/18/2023 4:21 AM	bl	44.616	6 309 271	45.769	0.375	50 146	159 806	44.241	1.153	0.9871	1.0000



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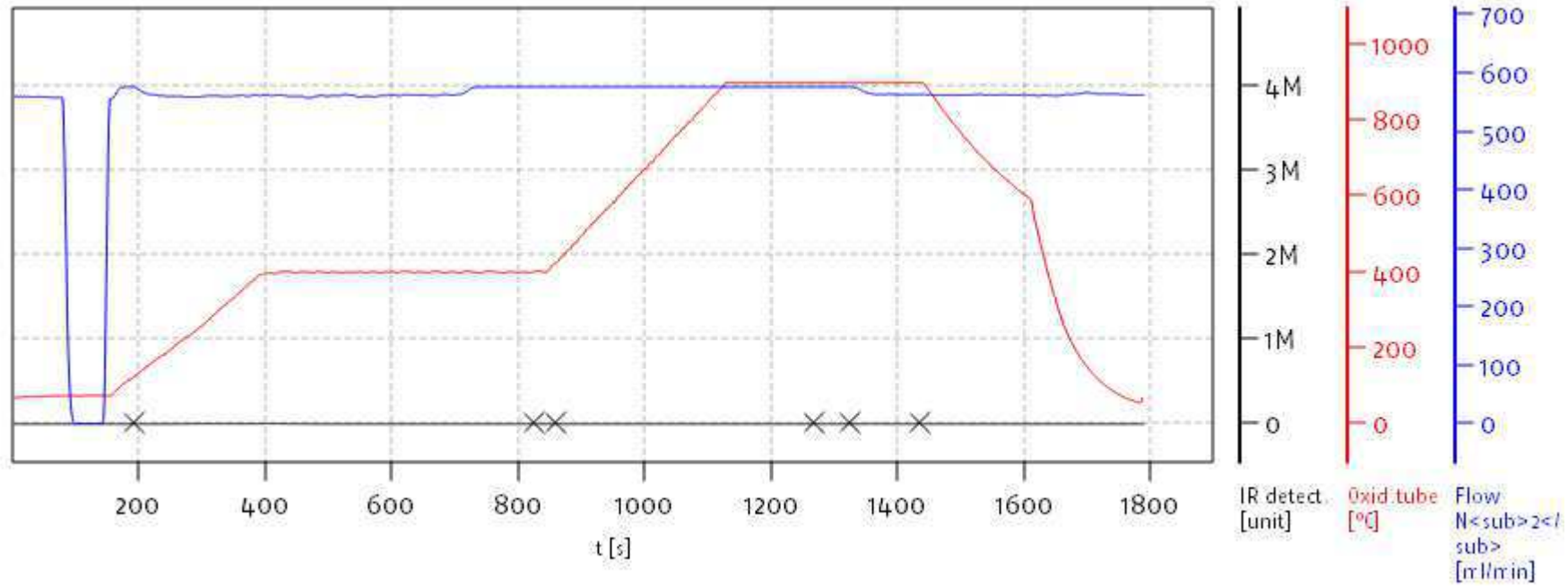
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	SLE0270-CCB1	523.30		CARBON	5/18/2023 4:52 AM	bl,C3u,C2u	0.009	22 128	0.010	0.001	2 335	2 184	0.007	0.001	0.9871	1.0000



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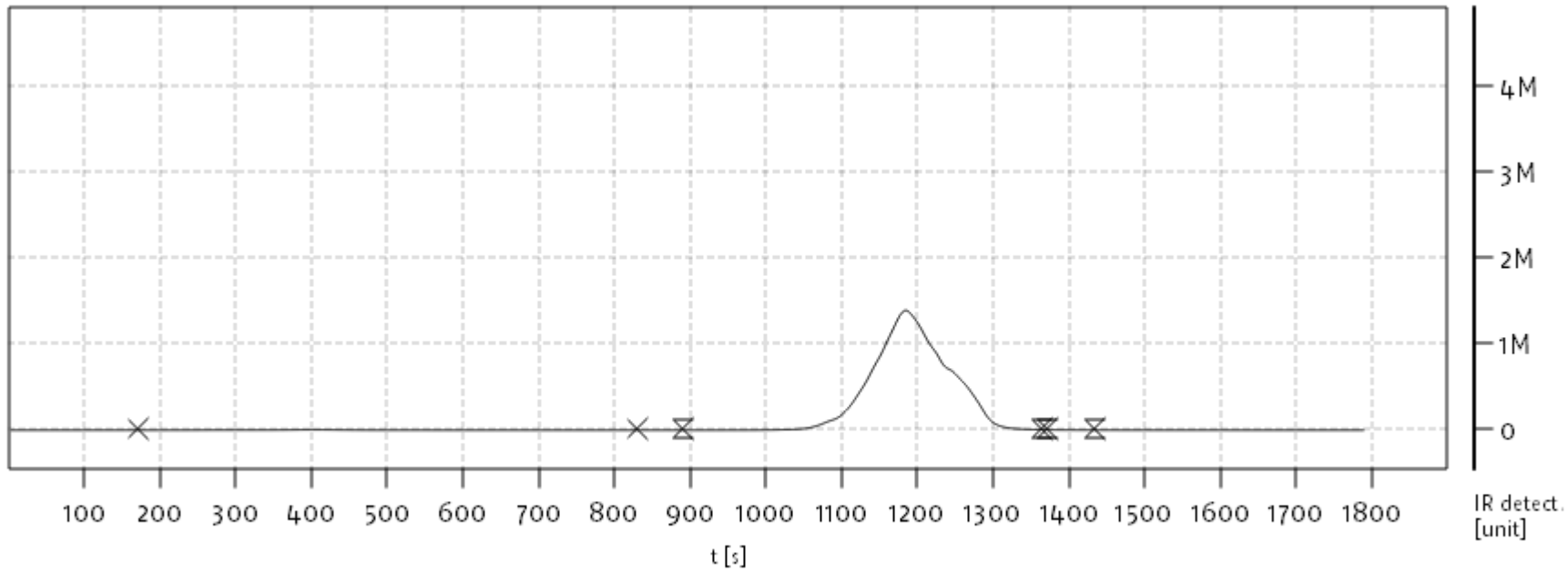
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/18/2023 9:47 AM	bl	0.019	21 598	4.386	0.000	**0**	**5 538 028**	0.019	4.367	1.0000	1.0000



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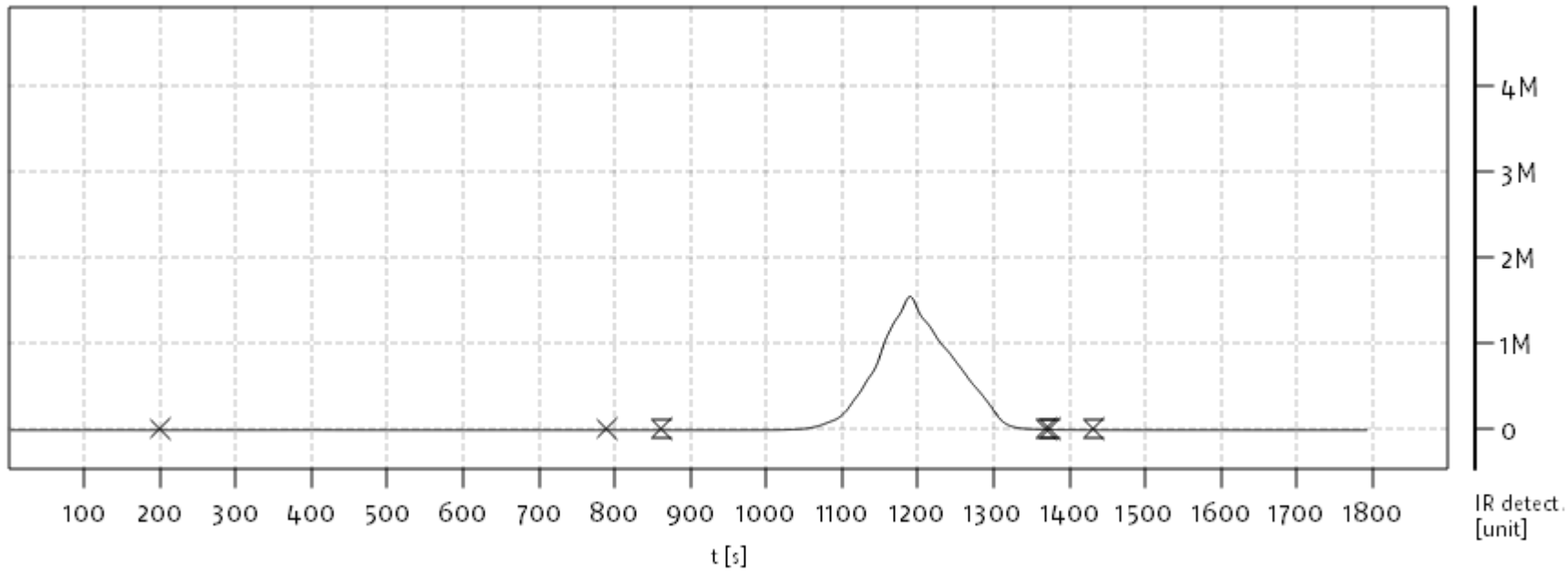
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/18/2023 9:48 AM	bl,C1u	0.006	5 408	4.784	0.000	**0**	**6 058 878**	0.006	4.778	1.0000	1.0000



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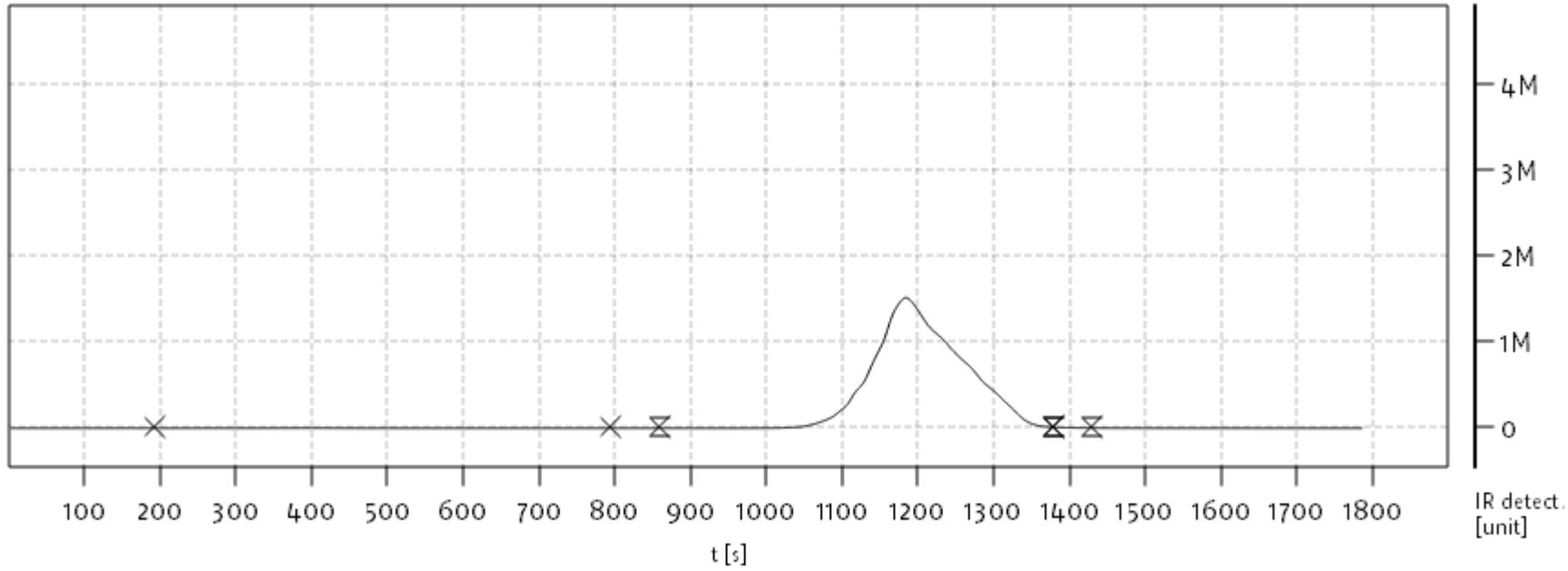
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/18/2023 9:49 AM	bl	0.009	8 745	5.379	0.000	**0**	**6 810 985**	0.009	5.370	1.0000	1.0000



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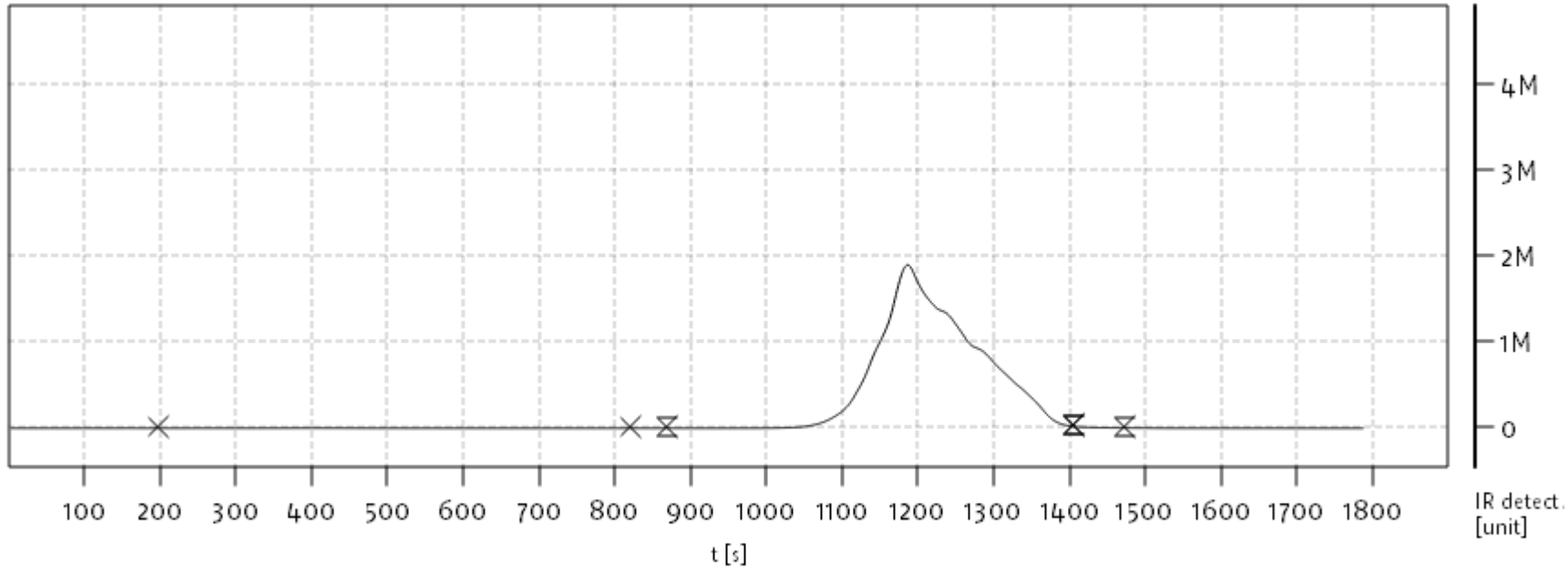
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 9:49 AM	bl,C1u,C3o	0.008	6 993	7.291	0.000	0	9 238 066	0.008	7.283	1.0000	1.0000



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Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

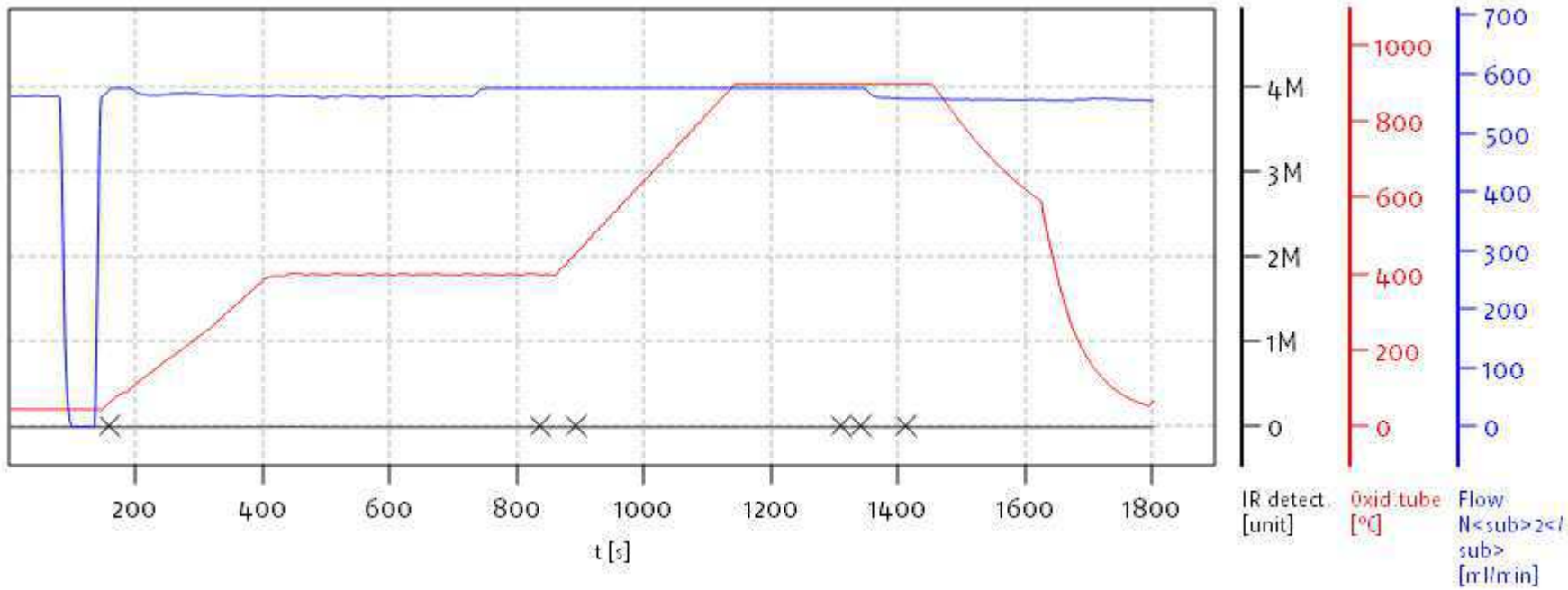
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLF0283	Instrument:	TOC Cube
		Calibration:	GE00052

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLF0283-ICV1	CubeData_06232023@1311-003	NA	06/20/23 17:22
Initial Cal Blank	SLF0283-ICB1	CubeData_06232023@1311-004	NA	06/20/23 17:53
MRL Check	BLF0522-MRL1	CubeData_06232023@1311-005	Solid	06/20/23 18:23
Blank	BLF0522-BLK1	CubeData_06232023@1311-009	Solid	06/20/23 20:23
LCS	BLF0522-BS1	CubeData_06232023@1311-013	Solid	06/20/23 22:23
Calibration Check	SLF0283-CCV1	CubeData_06232023@1311-015	NA	06/20/23 23:23
Calibration Blank	SLF0283-CCB1	CubeData_06232023@1311-016	NA	06/20/23 23:53
LDW23-SS1804	23D0136-01	CubeData_06232023@1311-021	Solid	06/21/23 02:24
LDW23-SS1804	BLF0522-DUP1	CubeData_06232023@1311-022	Solid	06/21/23 02:54
LDW23-SS1804	BLF0522-MS1	CubeData_06232023@1311-023	Solid	06/21/23 03:24
Calibration Check	SLF0283-CCV2	CubeData_06232023@1311-027	NA	06/21/23 05:25
Calibration Blank	SLF0283-CCB2	CubeData_06232023@1311-028	NA	06/21/23 05:55
LDW23-SC1804	23D0136-02	CubeData_06232023@1311-037	Solid	06/21/23 10:27
LDW23-SS1803	23D0136-03	CubeData_06232023@1311-038	Solid	06/21/23 10:57
Calibration Check	SLF0283-CCV3	CubeData_06232023@1311-039	NA	06/21/23 11:27
Calibration Blank	SLF0283-CCB3	CubeData_06232023@1311-040	NA	06/21/23 11:57
LDW23-SC1803	23D0136-04	CubeData_06232023@1311-041	Solid	06/21/23 12:28
Calibration Check	SLF0283-CCV4	CubeData_06232023@1311-050	NA	06/21/23 17:30
Calibration Blank	SLF0283-CCB4	CubeData_06232023@1311-051	NA	06/21/23 18:00
Calibration Check	SLF0283-CCV5	CubeData_06232023@1311-062	NA	06/21/23 23:32
Calibration Blank	SLF0283-CCB5	CubeData_06232023@1311-063	NA	06/22/23 00:02

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	6/ 20/2023 3:52 PM	bl	0.000	20 374	0.000	0.000	1 054	9 234	0.000	0.000	1.0000	1.0000



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Date: Fri Jun 23 12:52:31 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

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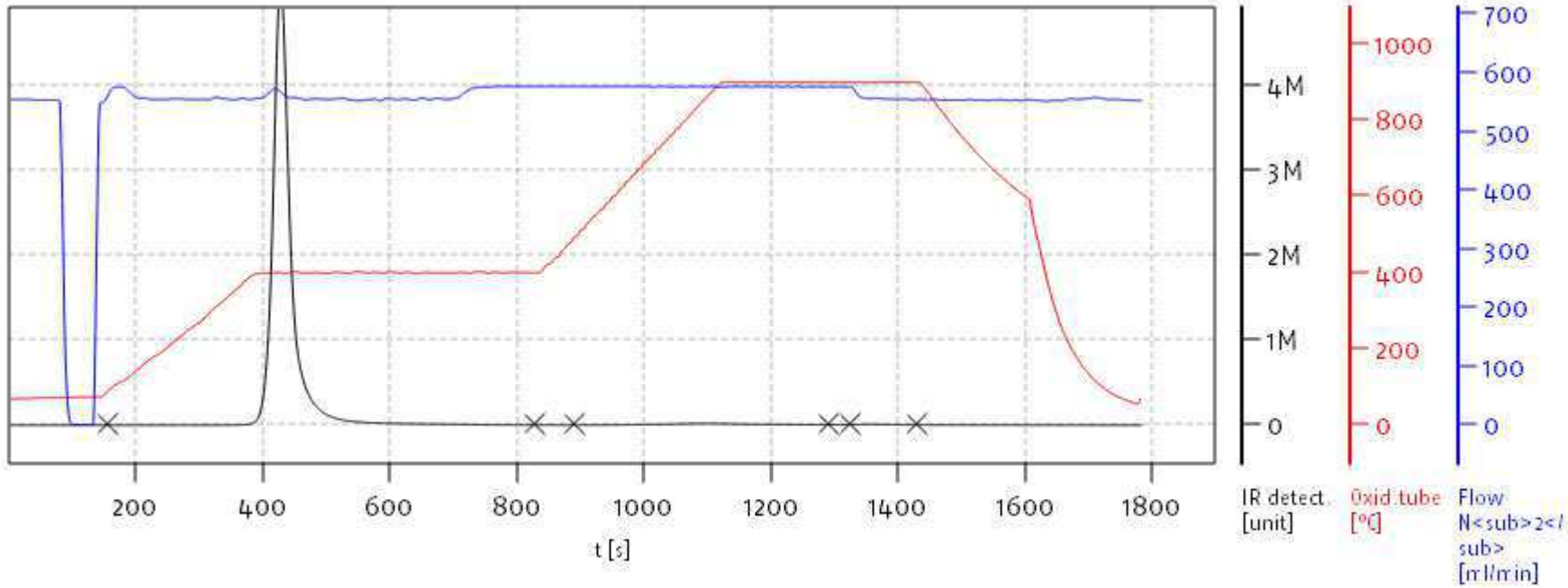
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	22.10		CARBON	6/20/2023 4:22 PM	bl	44.446	6 377 258	45.203	0.000	26 354	134 395	44.446	0.757	0.9755	1.0000



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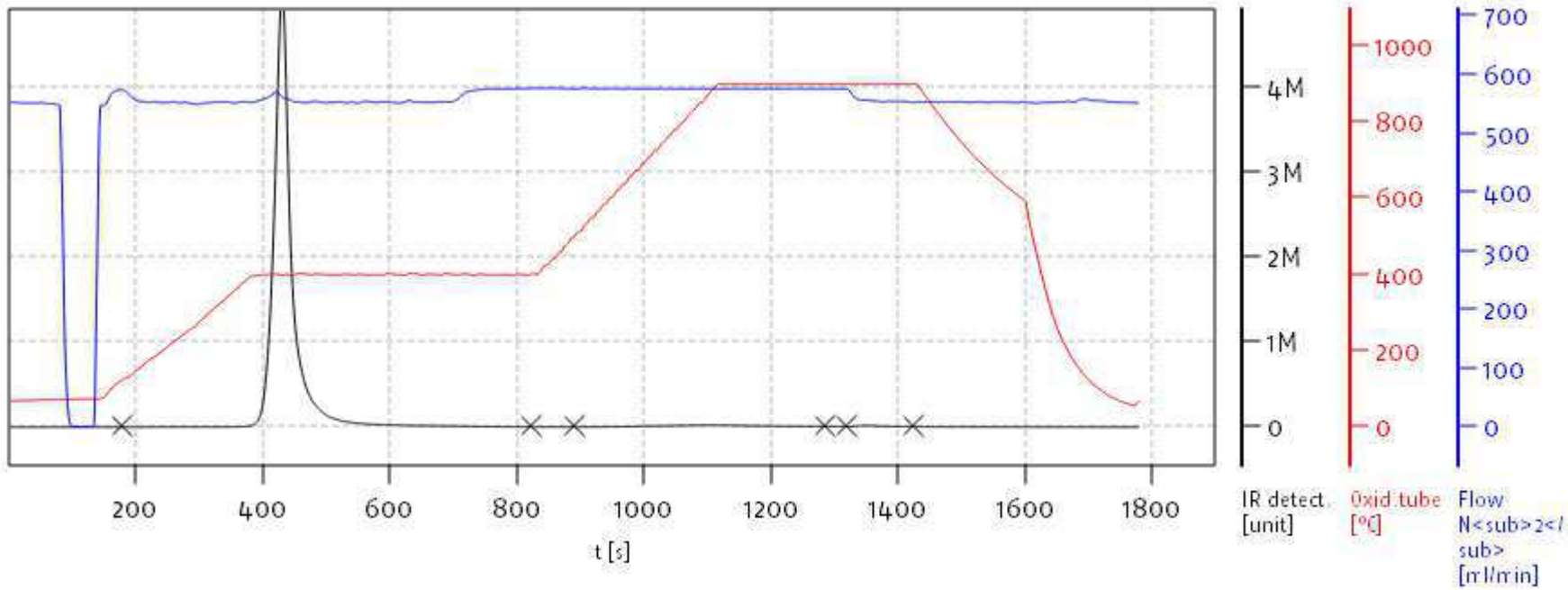
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	21.70		CARBON	6/20/2023 4:52 PM	bl	44.531	6 189 415	45.626	0.085	40 486	178 748	44.446	1.096	0.9870	1.0000



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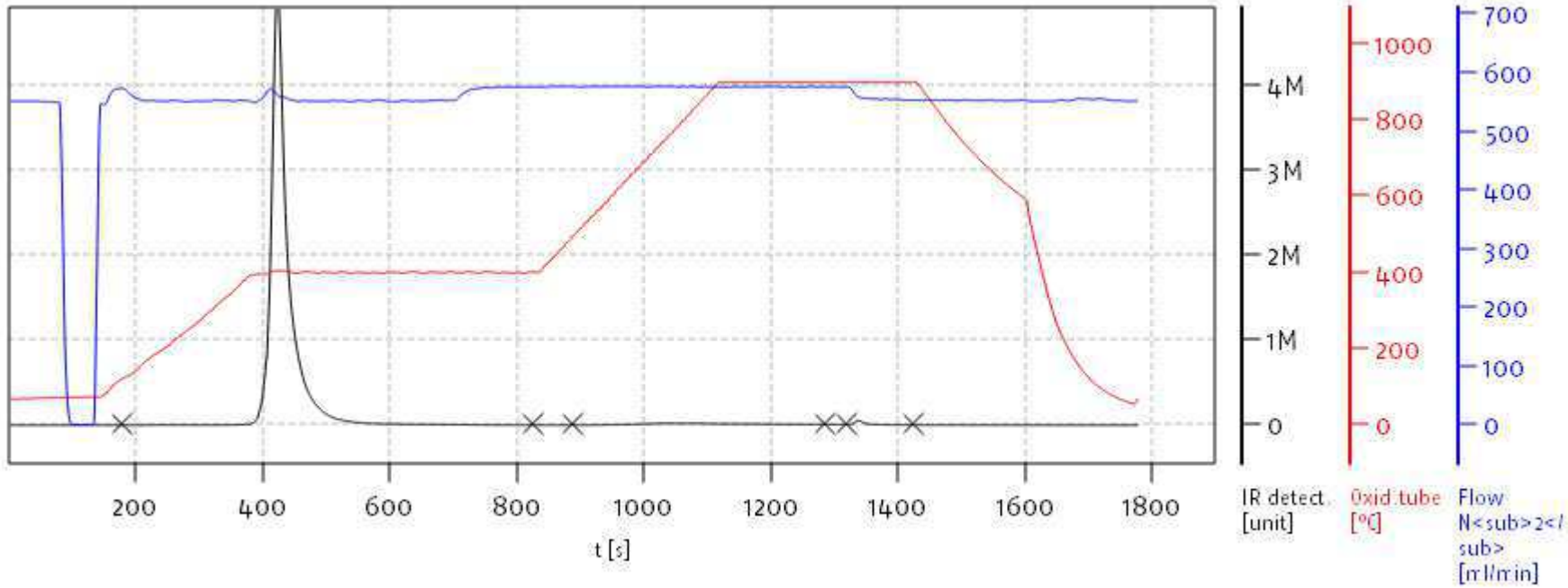
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLF0283-ICV1	20.60		CARBON	6/20/2023 5:22 PM	bl	44.324	5 876 929	45.471	0.140	47 003	177 907	44.184	1.148	0.9813	1.0000



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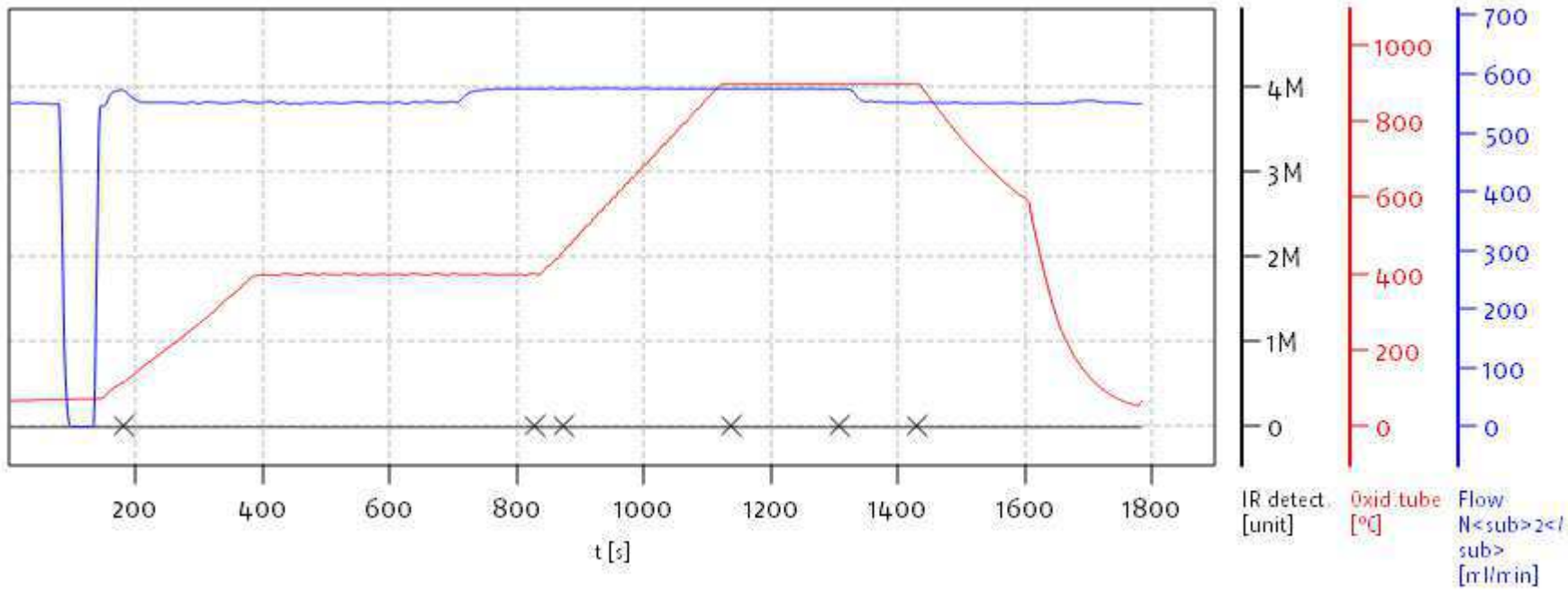
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLF0283-ICB1	546.00		CARBON	6/20/2023 5:53 PM	bl,C1u,C3u,C2u	0.000	10 019	0.000	0.000	485	830	0.000	0.000	0.9813	1.0000



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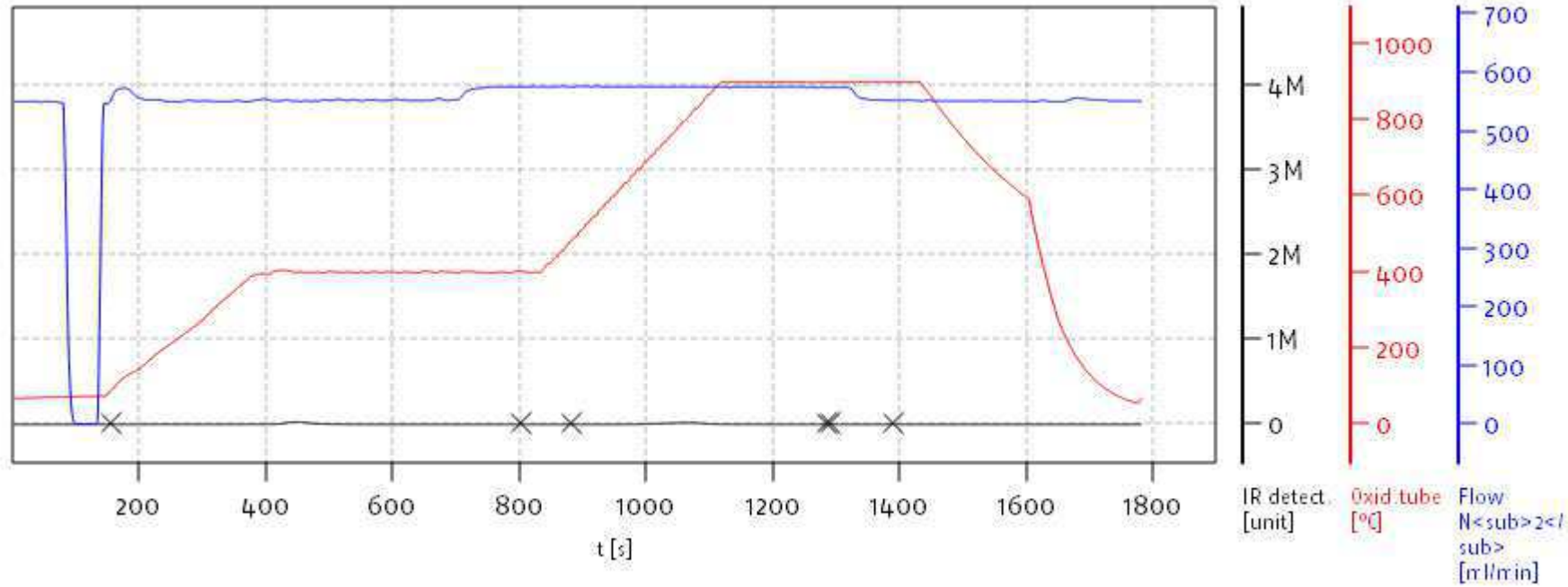
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	BLF0522-MRL1	518.00		CARBON	6/20/2023 6:23 PM	bl,C2u	0.011	66 529	0.022	0.000	1 286	63 200	0.011	0.011	0.9813	1.0000



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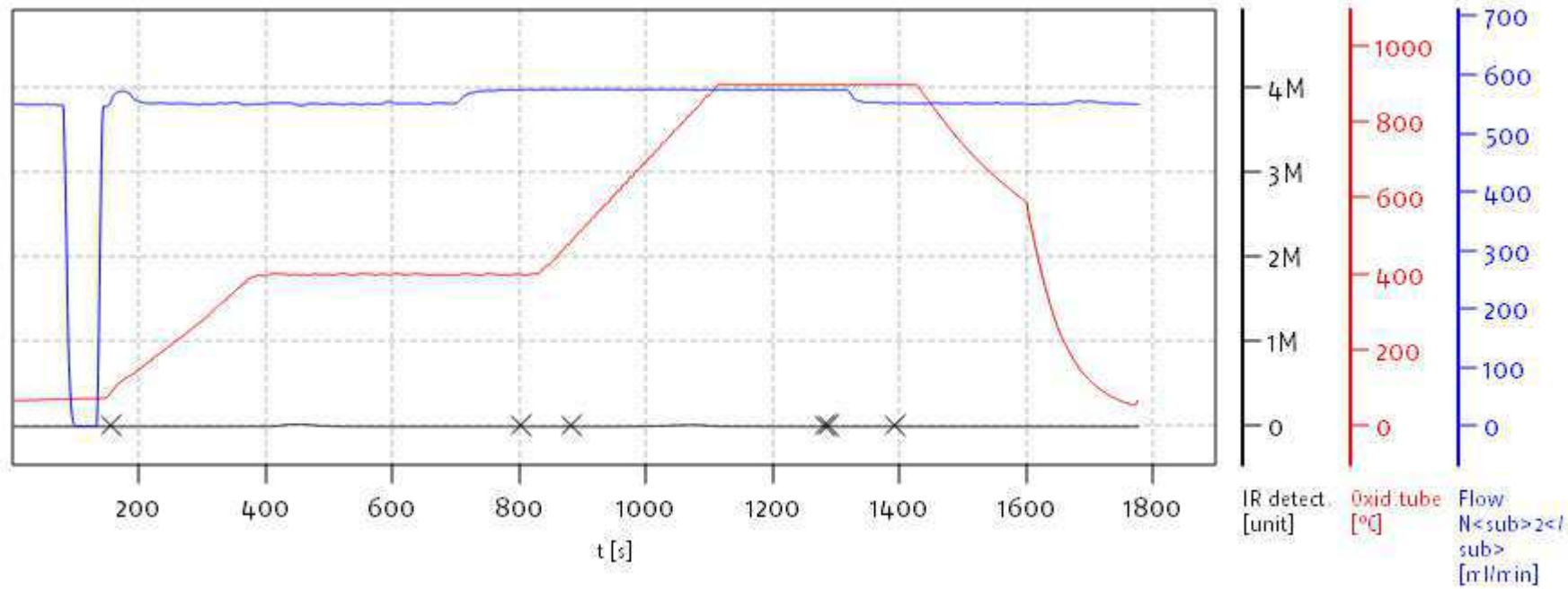
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BLF0523-MRL1	521.40		CARBON	6/20/2023 6:53 PM	bl,C2u	0.012	67 940	0.021	0.000	1 217	59 838	0.012	0.009	0.9813	1.0000



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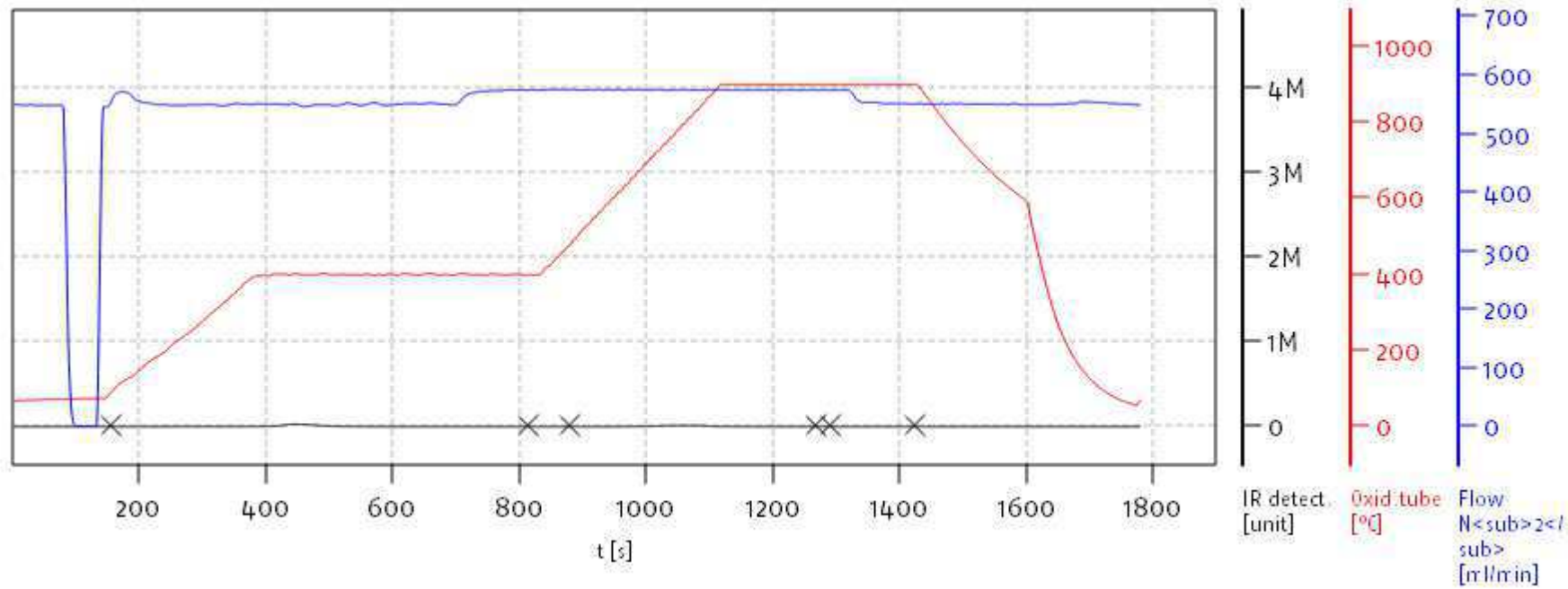
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BLF0524-MRL1	513.20		CARBON	6/20/2023 7:23 PM	bl,C2u	0.015	78 452	0.020	0.000	446	44 765	0.015	0.005	0.9813	1.0000



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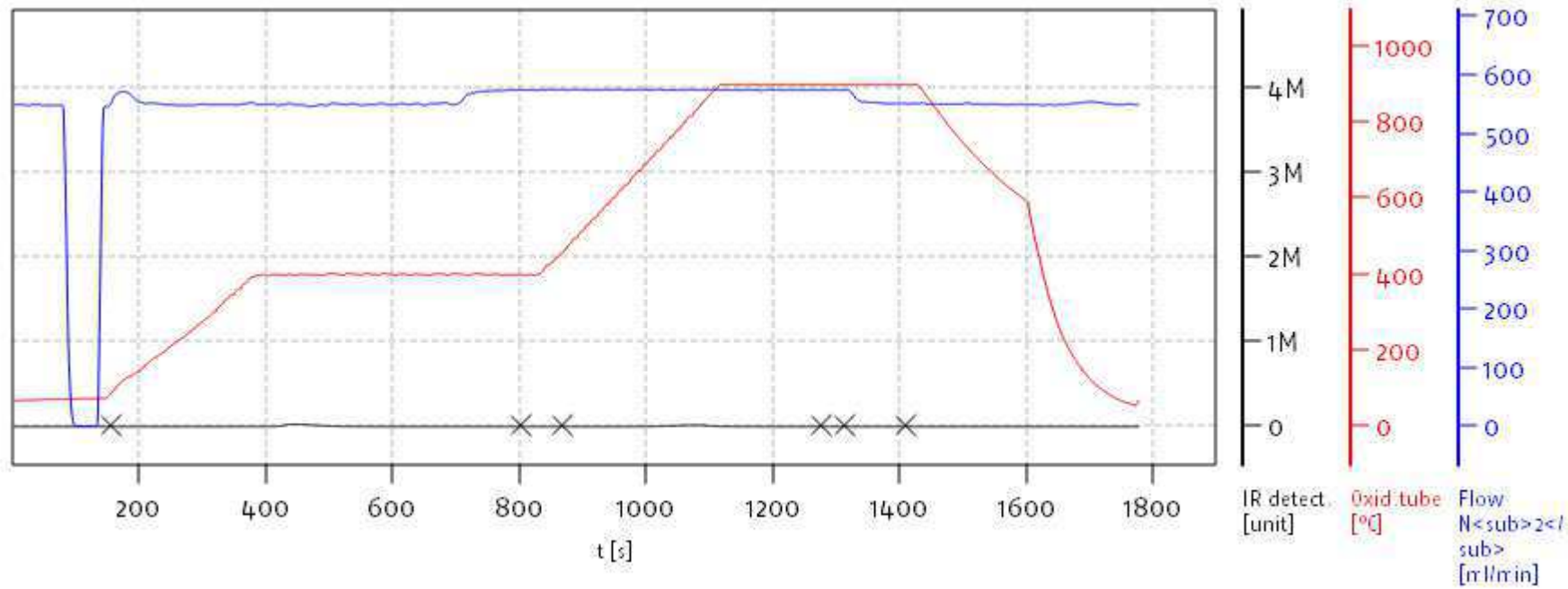
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	BLF0525-MRL1	513.80		CARBON	6/20/2023 7:53 PM	bl,C2u	0.013	70 332	0.019	0.000	908	48 640	0.013	0.006	0.9813	1.0000



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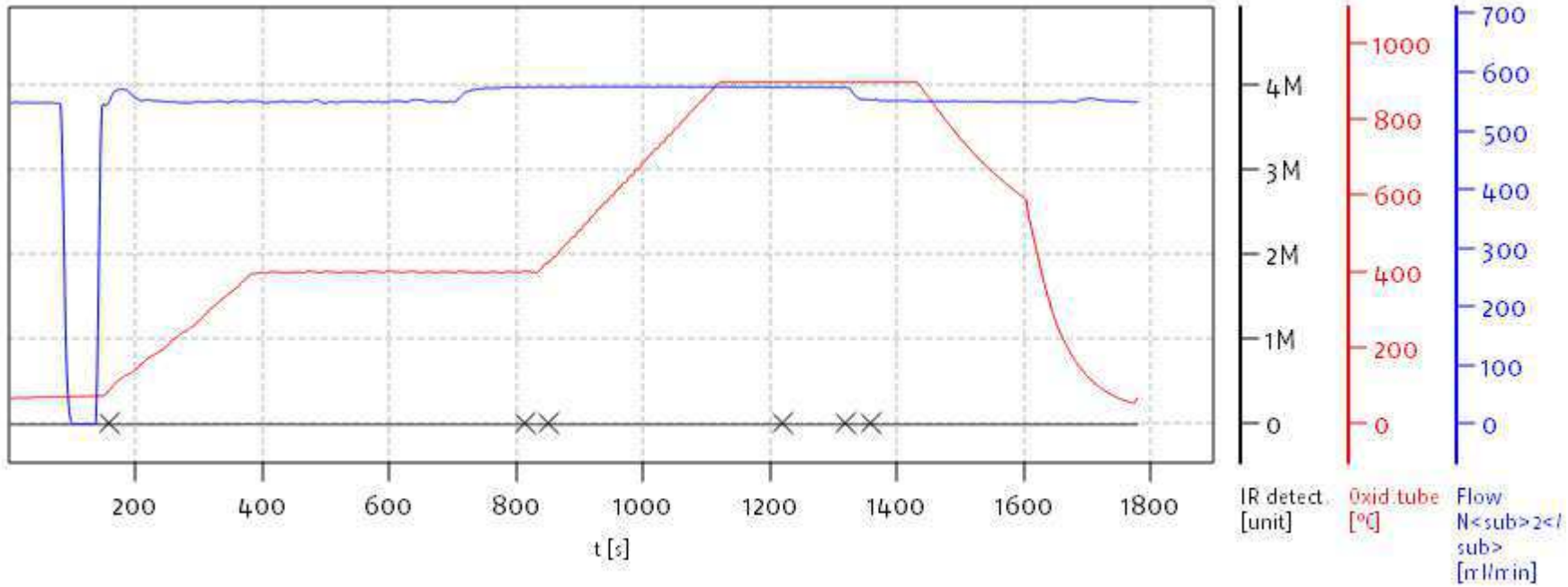
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	BLF0522-BLK1	513.70		CARBON	6/20/2023 8:23 PM	bl,C1u,C3u,C2u	0.000	9 002	0.000	0.000	112	1 308	0.000	0.000	0.9813	1.0000



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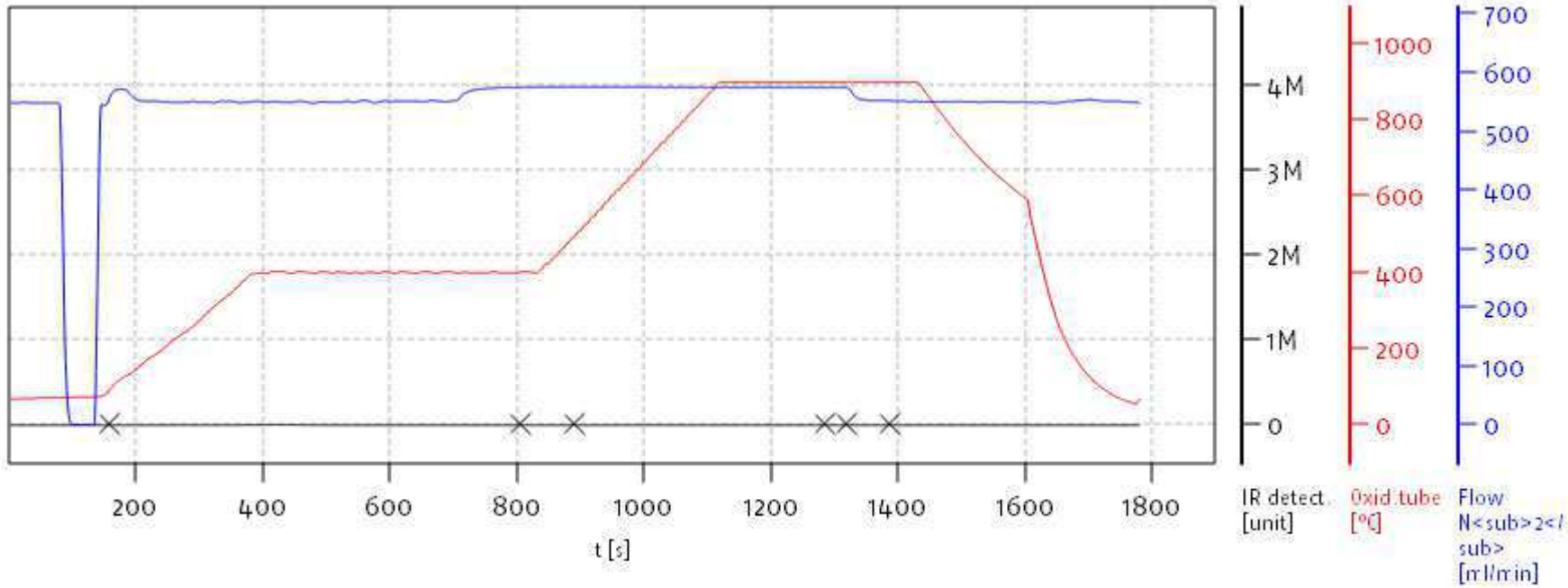
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	BLF0523-BLK1	530.80		CARBON	6/20/2023 8:53 PM	bl,C1u,C3u,C2u	0.000	20 782	0.000	0.000	298	7 483	0.000	0.000	0.9813	1.0000



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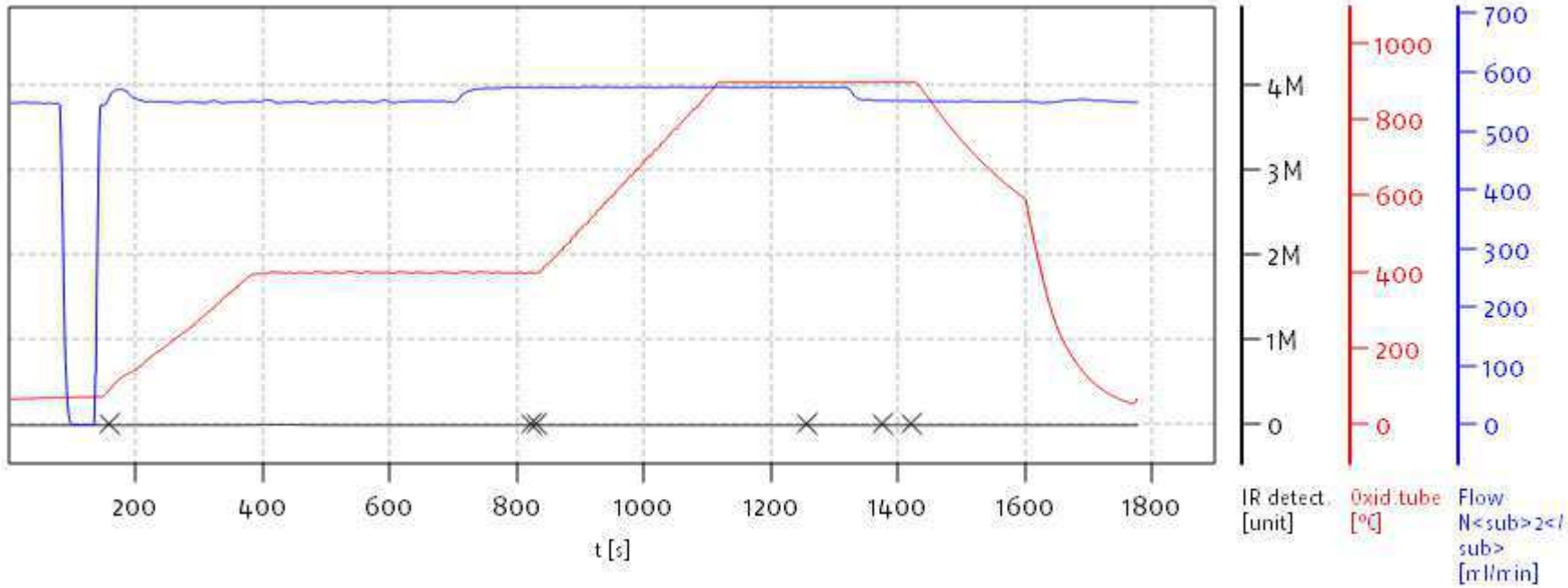
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	BLF0524-BLK1	533.00		CARBON	6/20/2023 9:23 PM	bl,C3u,C2u	0.000	23 475	0.000	0.000	133	1 801	0.000	0.000	0.9813	1.0000



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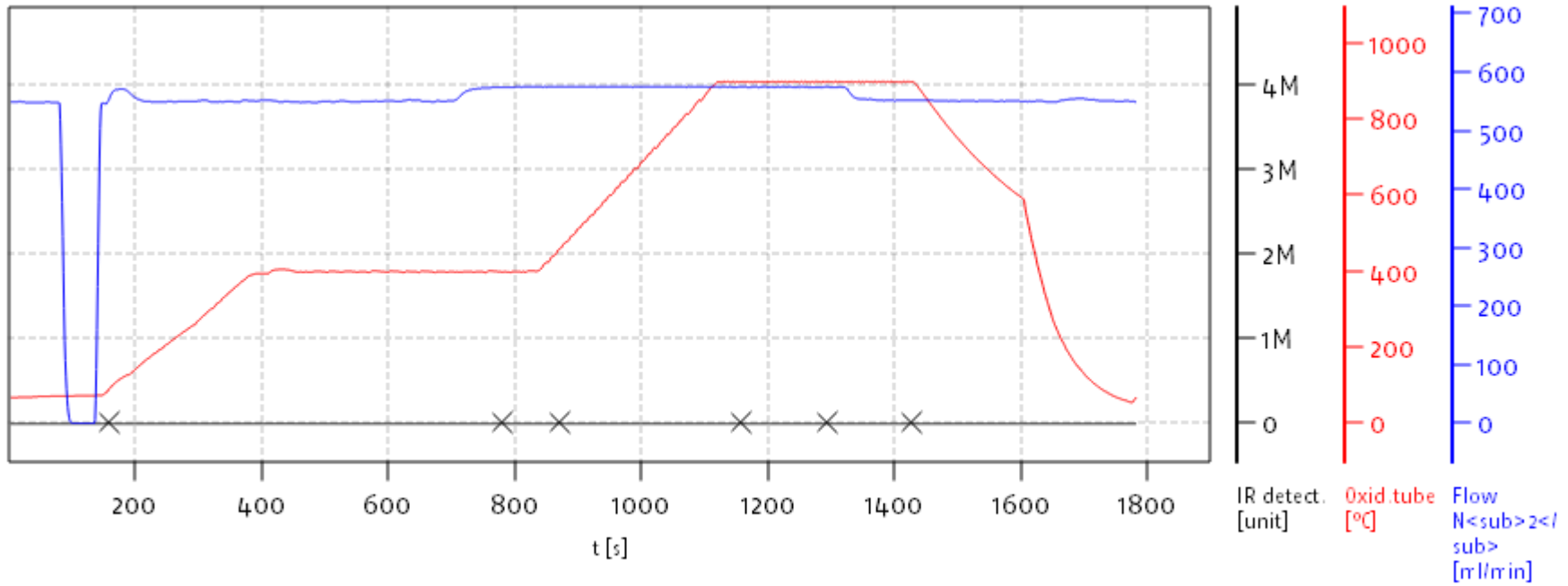
Document: 062023 CDE from: 6/23/2023 12:51 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	BLF0525-BLK1	524.80		CARBON	6/20/2023 9:53 PM	bl,C1u,C3u,C2u	0.000	5 083	0.000	0.000	250	705	0.000	0.000	0.9813	1.0000



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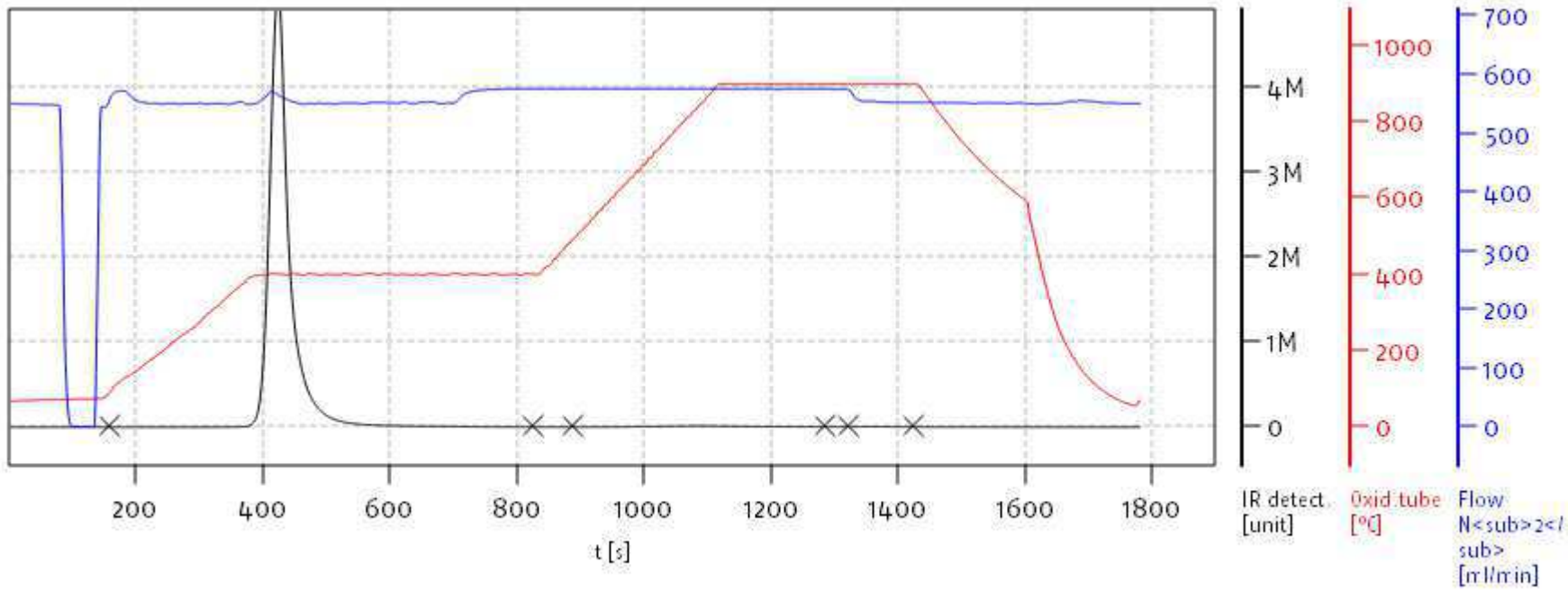
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	BLF0522-BS1	23.70		CARBON	6/20/2023 10:23 PM	bl,C2u	45.647	6 979 738	46.112	0.000	16 870	98 325	45.647	0.465	0.9813	1.0000



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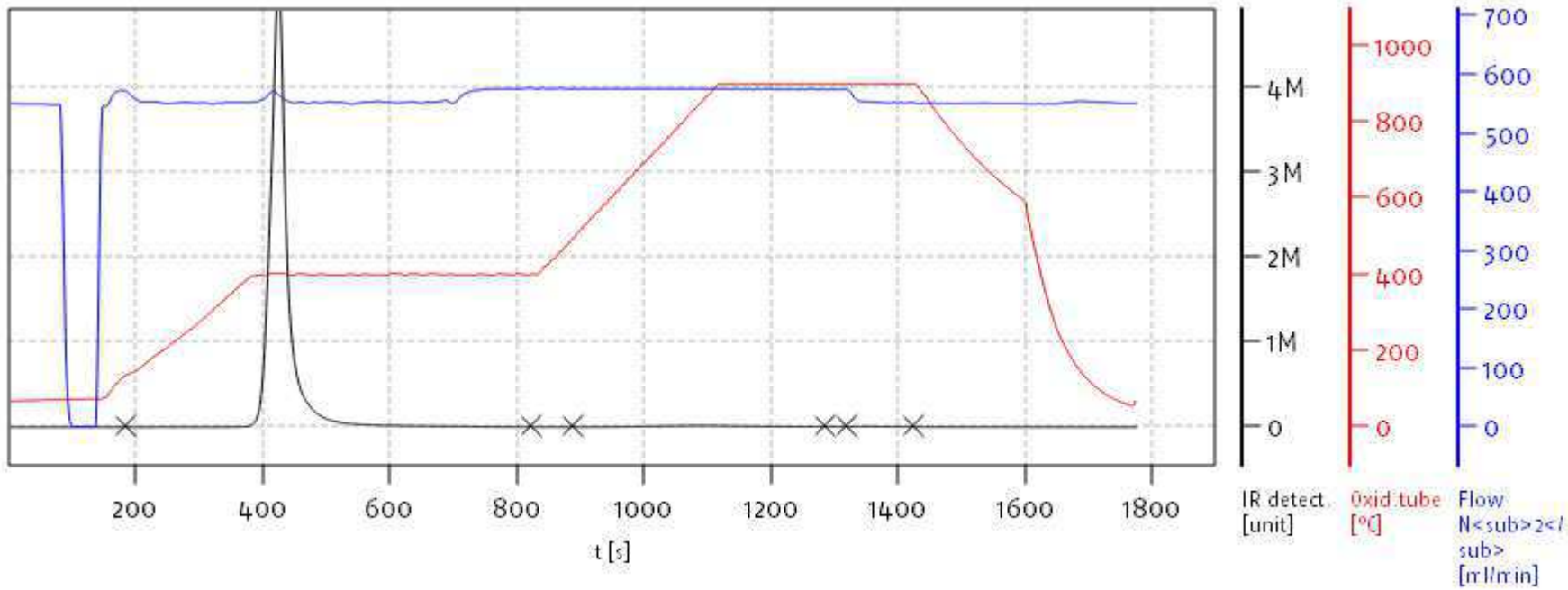
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	BLF0523-BS1	20.80		CARBON	6/20/2023 10:53 PM	bl	44.863	6 024 470	45.618	0.000	21 879	127 846	44.863	0.755	0.9813	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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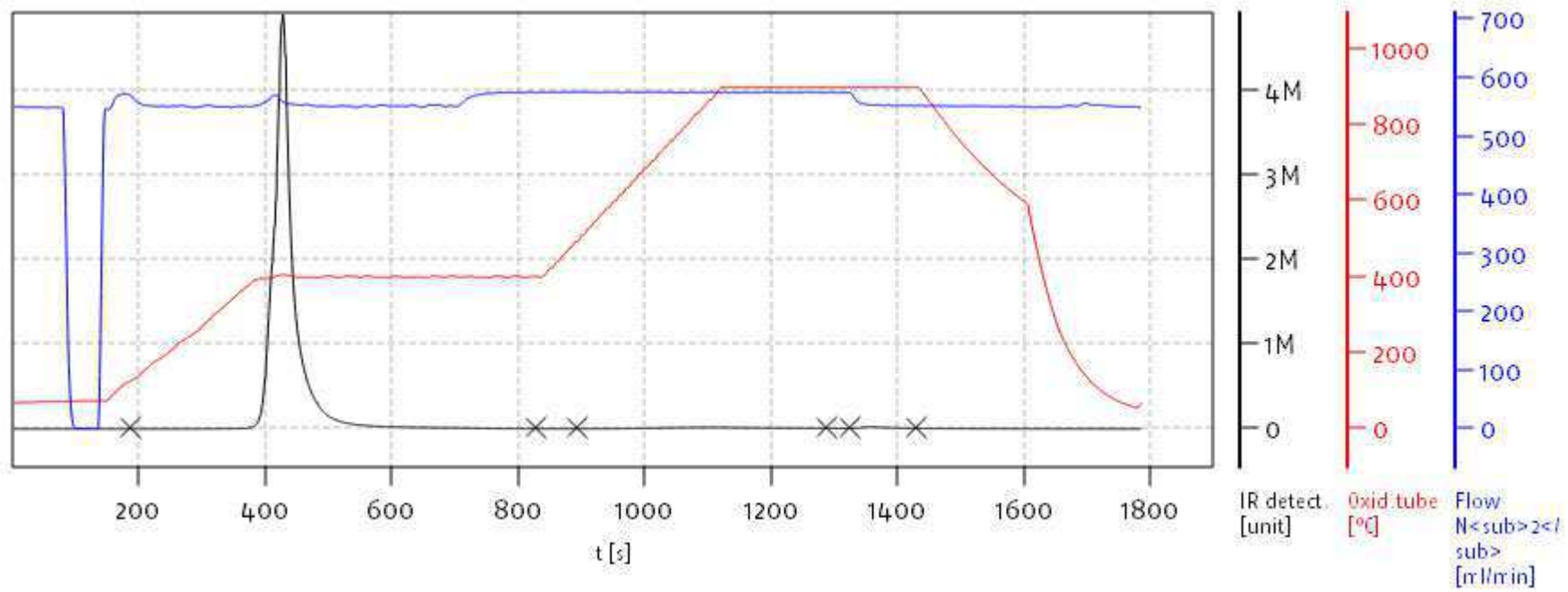
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLF0283-CCV1	22.80		CARBON	6/20/2023 11:23 PM	bl	43.777	6 419 804	44.589	0.151	50 523	145 593	43.627	0.812	0.9813	1.0000



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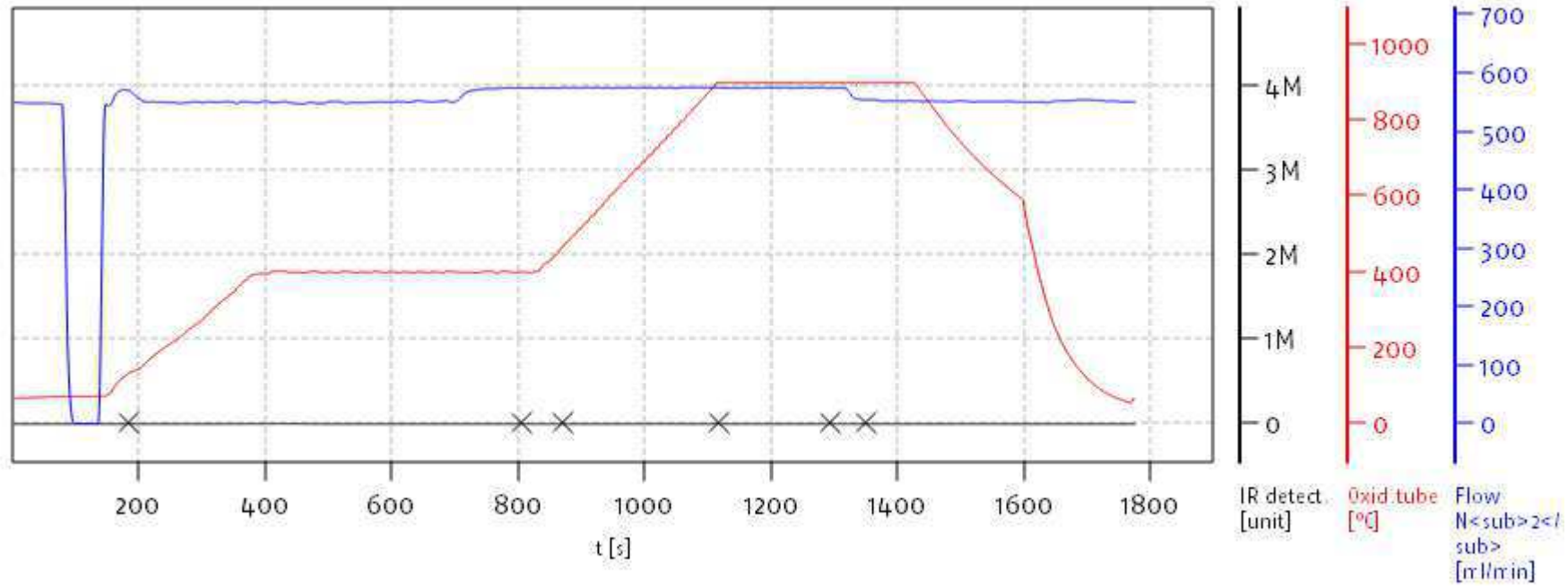
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLF0283-CCB1	530.30		CARBON	6/20/2023 11:53 PM	bl,C1u,C3u,C2u	0.000	12 023	0.000	0.000	449	2 939	0.000	0.000	0.9813	1.0000



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elementar
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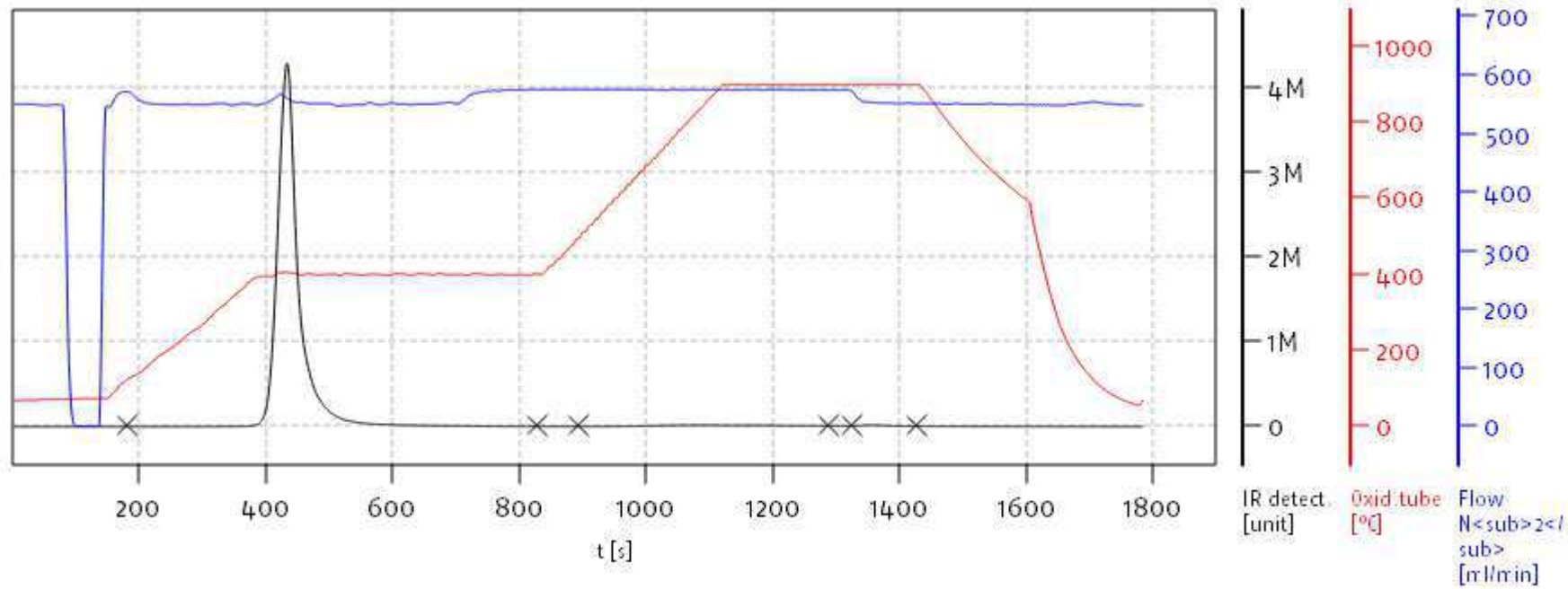
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	BLF0524-BS1	21.50		CARBON	6/21/2023 12:23 AM	bl	44.595	6 178 704	45.529	0.076	39 183	155 509	44.519	0.934	0.9813	1.0000



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Analytical Resources, LLC
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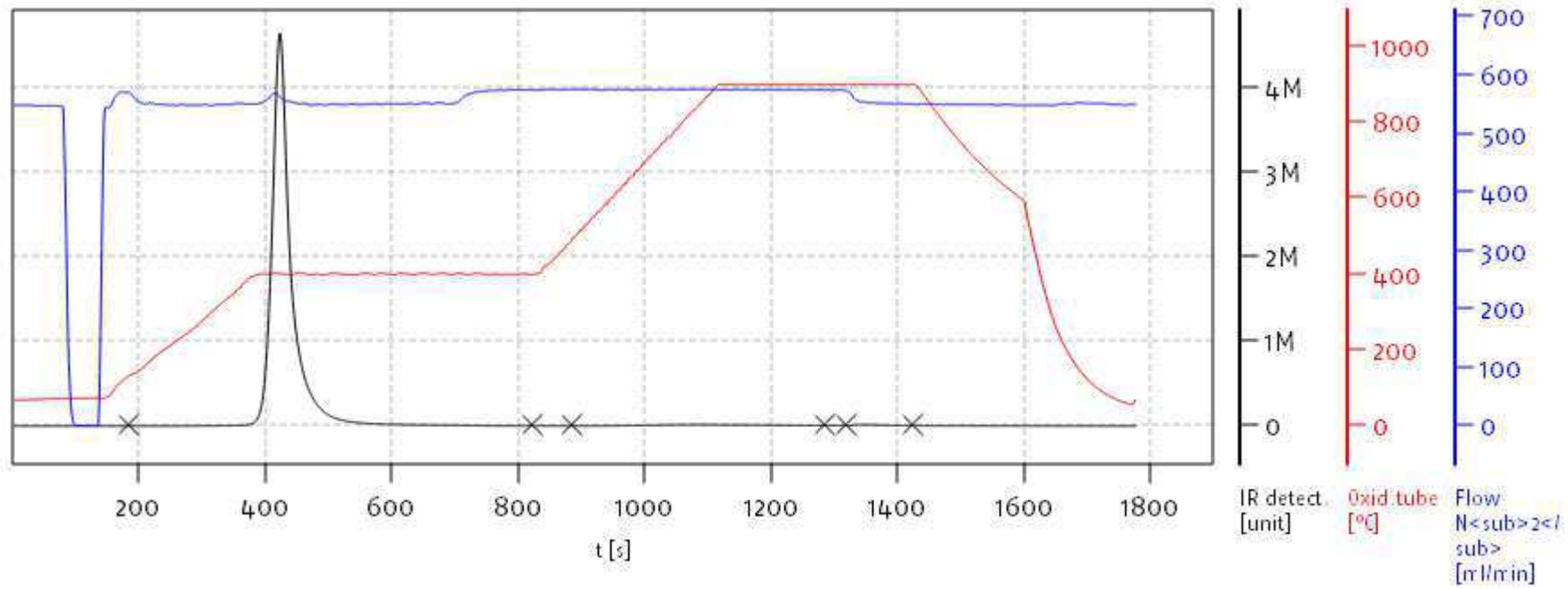
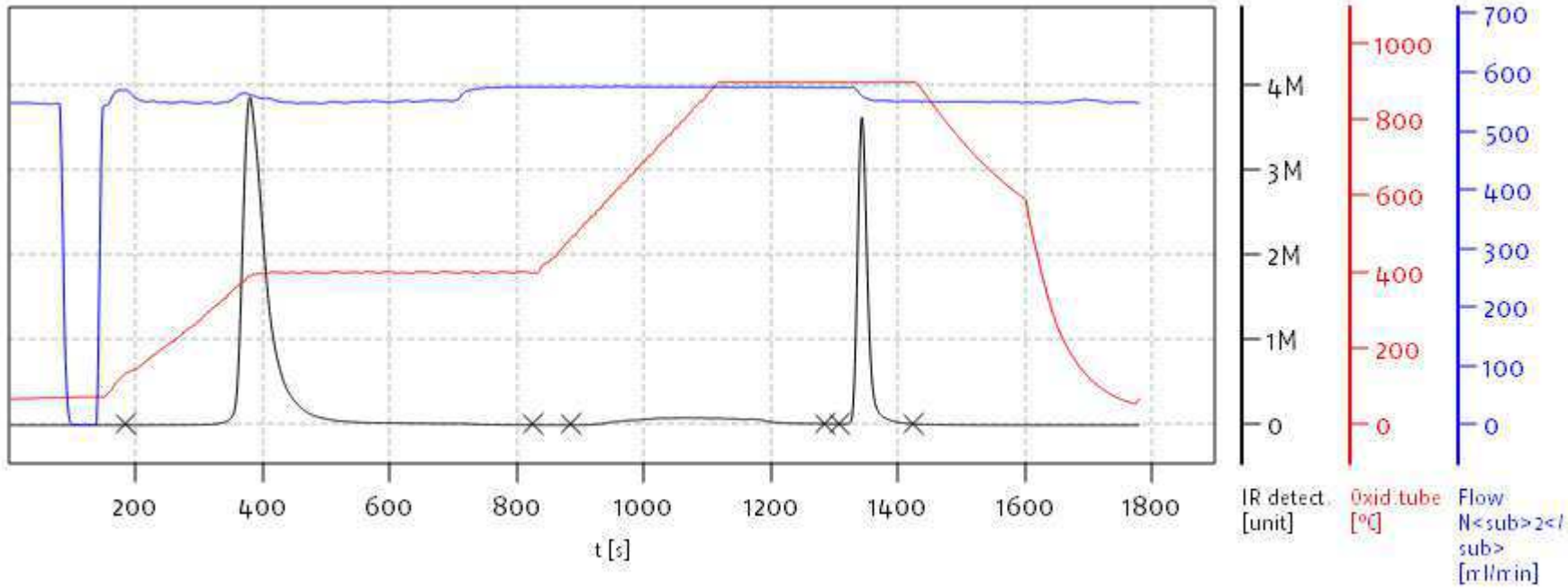
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	BLF0525-BS1	21.20		CARBON	6/21/2023 12:53 AM	bl	44.691	6 109 807	45.432	0.048	35 217	127 999	44.643	0.742	0.9813	1.0000



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	BLF0522-SRM1	316.50		CARBON	6/21/2023 1:23 AM	bl	4.451	6 549 920	4.820	1.244	2 510 959	766 574	3.207	0.370	0.9813	1.0000



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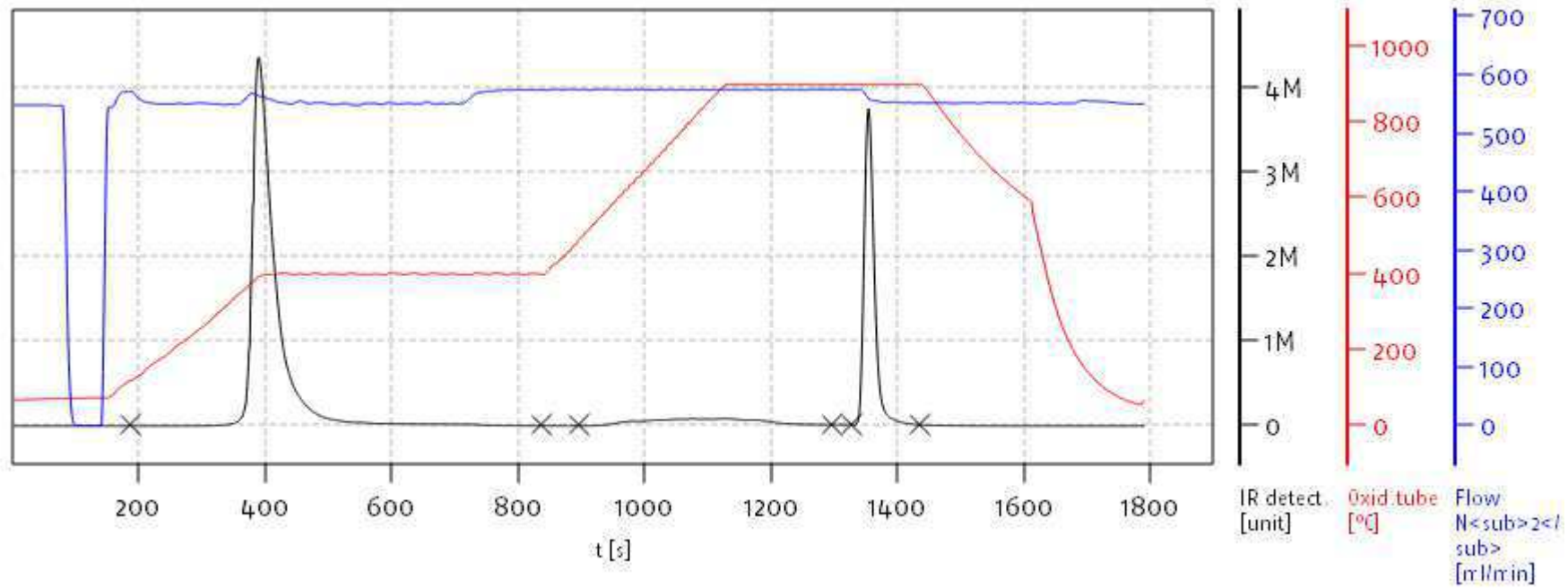
Date: Fri Jun 23 12:52:31 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	BLF0523-SRM1	330.20		CARBON	6/21/2023 1:53 AM	bl	4.412	6 703 460	4.757	1.266	2 664 731	745 759	3.146	0.344	0.9813	1.0000



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Date: Fri Jun 23 12:52:31 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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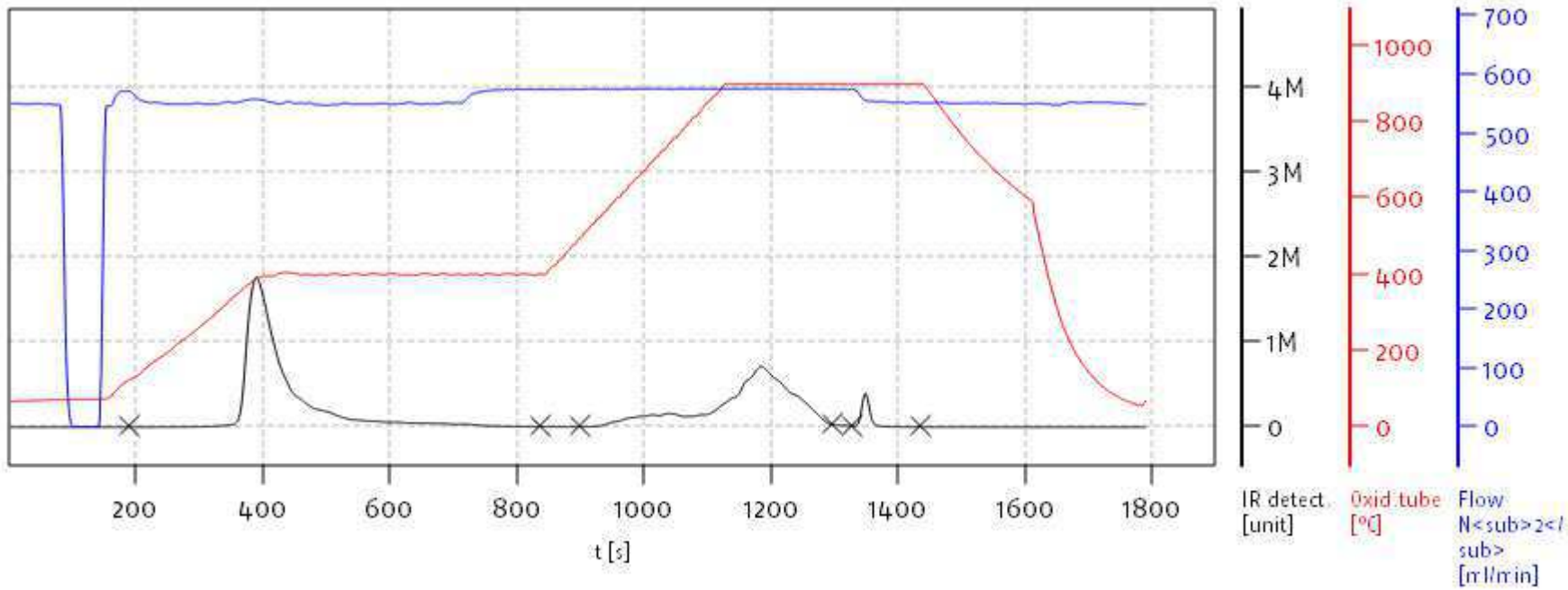
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	23D0136-01	530.40		CARBON	6/21/2023 2:24 AM	bl	1.358	4 456 740	2.400	0.059	226 779	3 510 415	1.299	1.041	0.9813	1.0000



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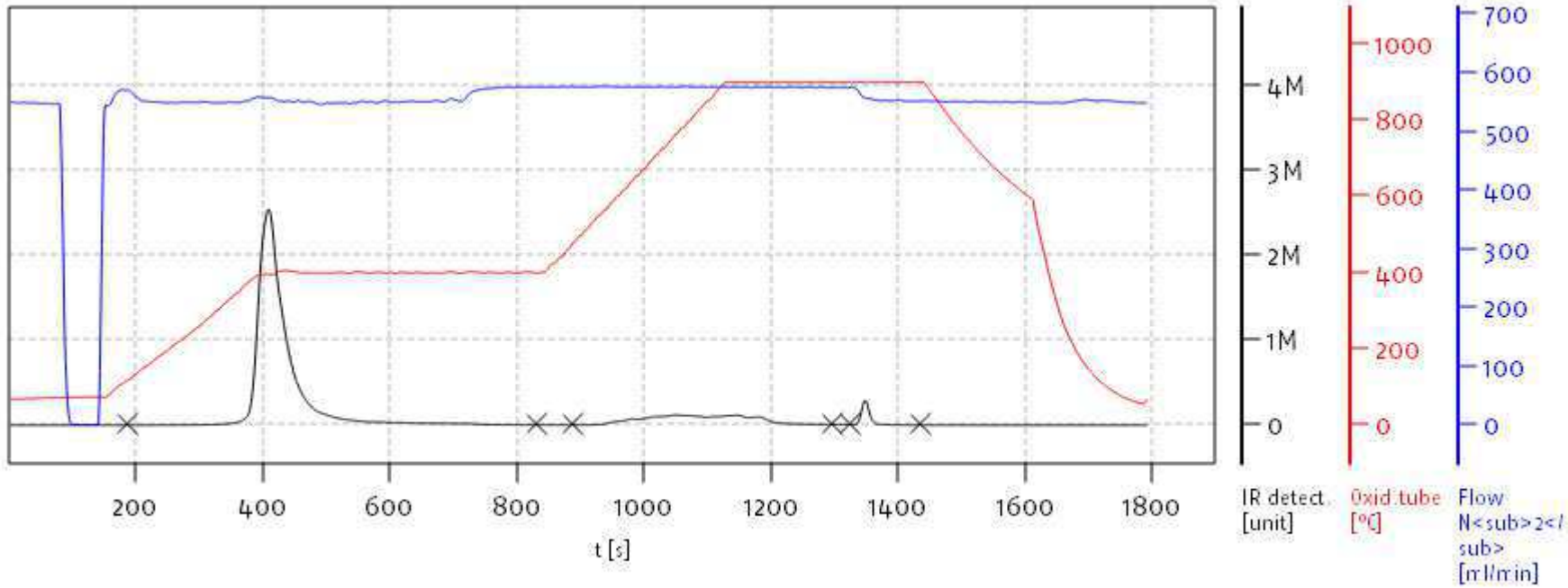
Date: Fri Jun 23 12:52:31 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

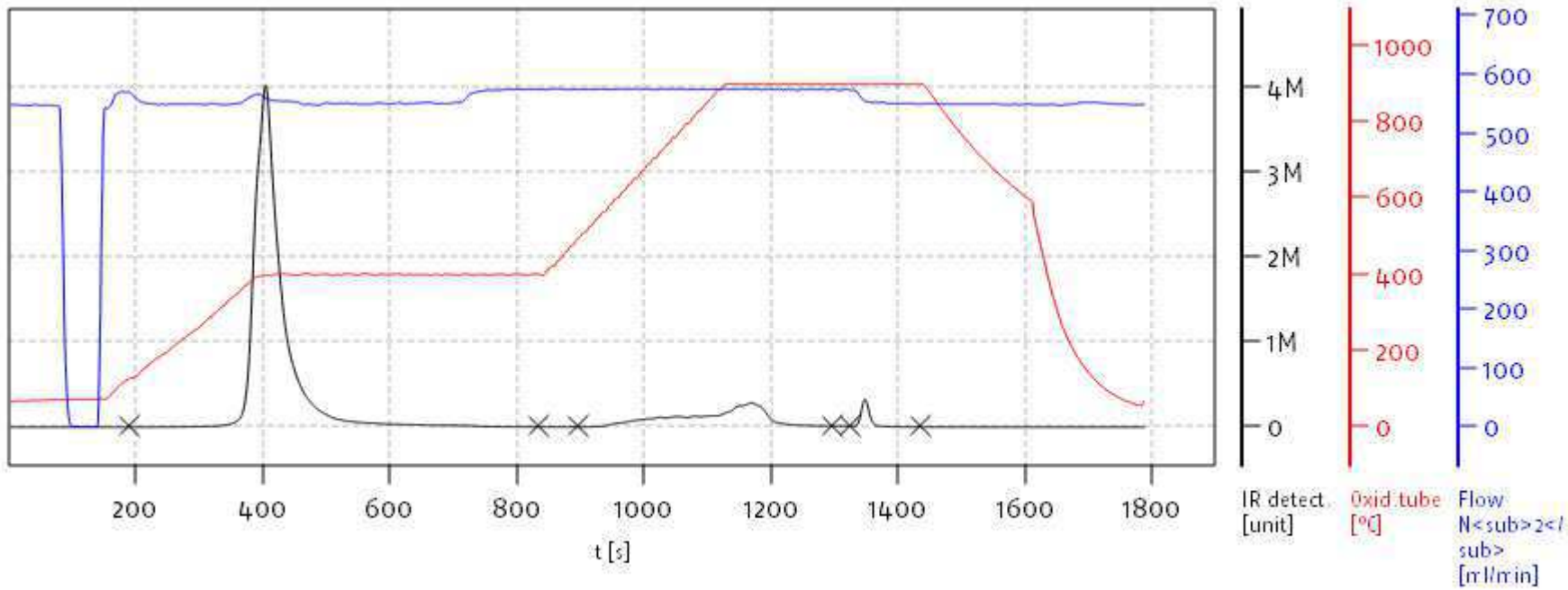
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	BLF0522-DUP1	525.70		CARBON	6/21/2023 2:54 AM	bl	1.464	4 830 708	1.740	0.042	169 638	944 450	1.422	0.276	0.9813	1.0000



Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	BLF0522-MS1	552.50	0.0077	CARBON	6/21/2023 3:24 AM	bl	2.108	7 347 329	2.510	0.047	191 725	1 426 598	2.062	0.401	0.9813	1.0000



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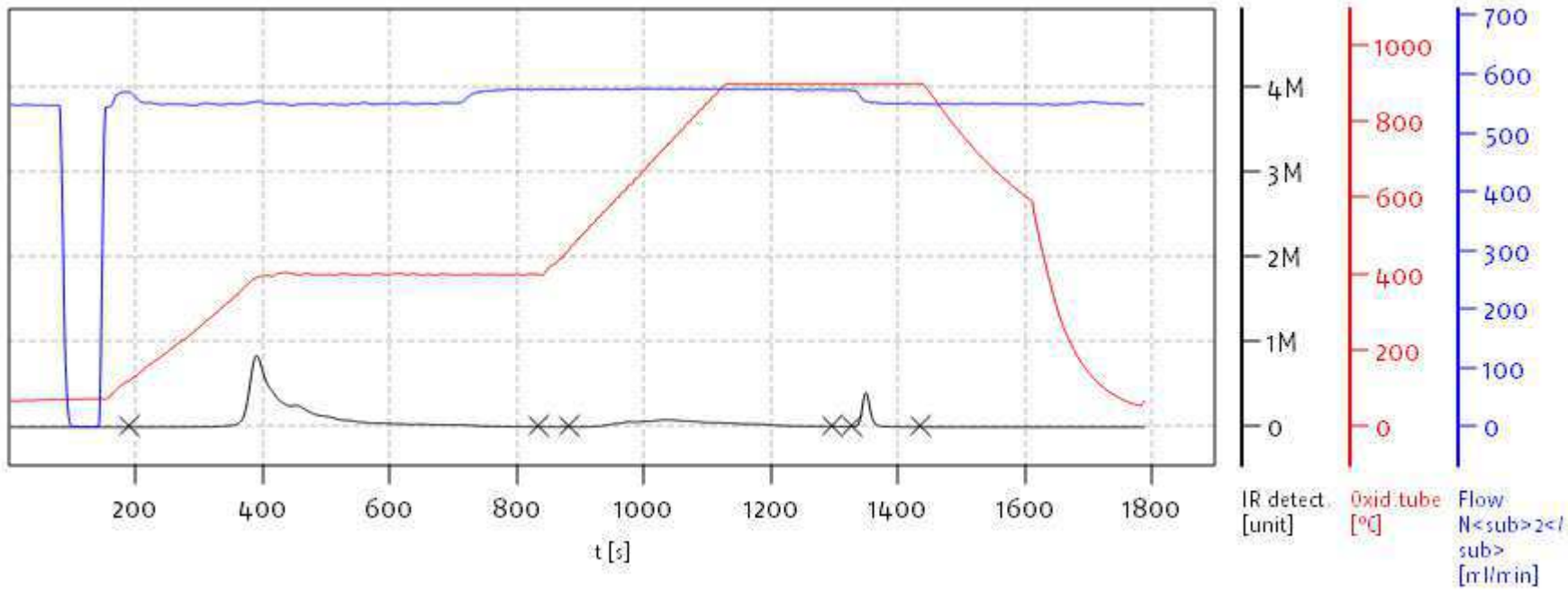
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	23E0219-01	337.00		CARBON	6/21/2023 3:54 AM	bl	1.087	2 177 571	1.354	0.095	230 152	596 074	0.992	0.267	0.9813	1.0000



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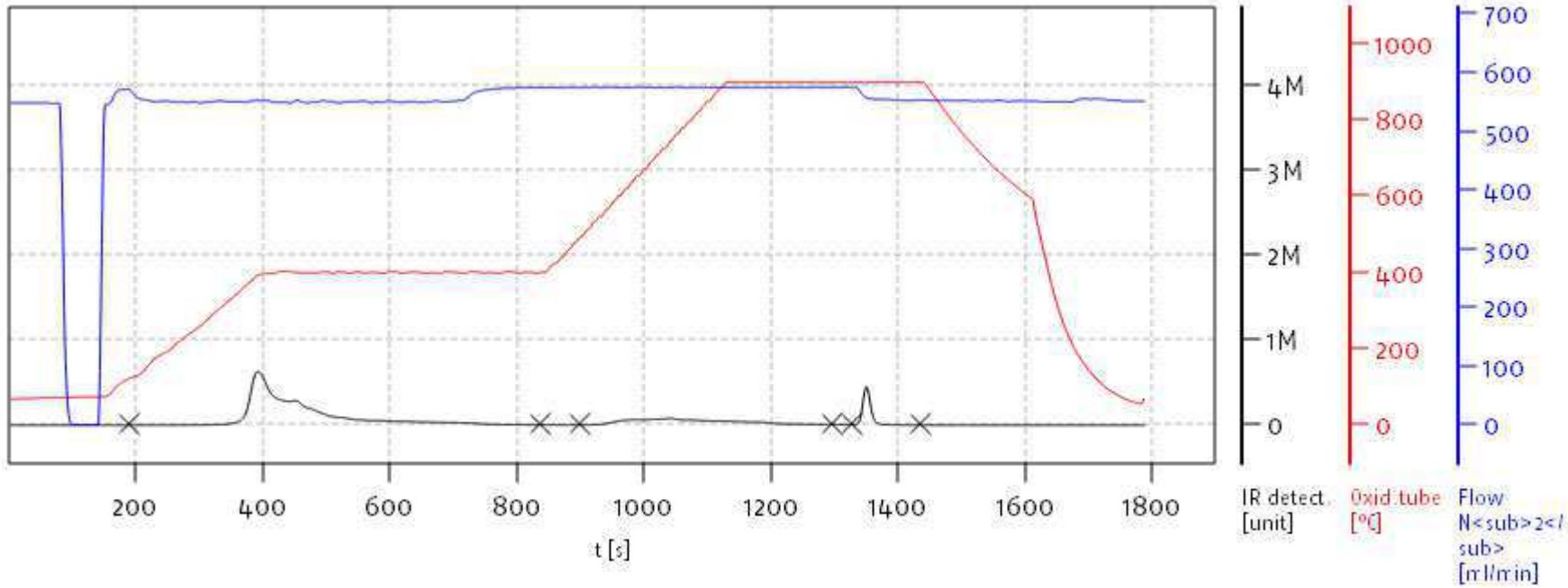
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	BLF0523-DUP1	325.50		CARBON	6/21/2023 4:24 AM	bl	1.066	2 031 179	1.330	0.109	251 846	569 739	0.957	0.264	0.9813	1.0000



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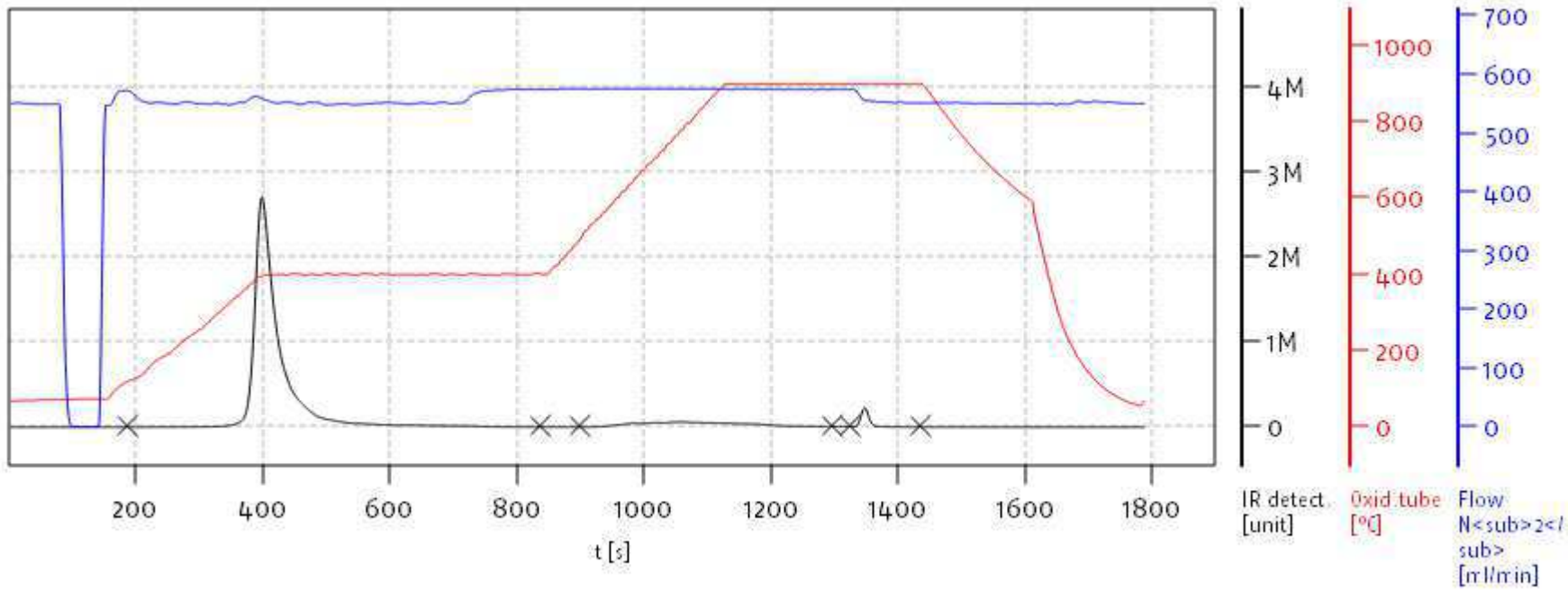
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	BLF0523-MS1	292.10	0.0073	CARBON	6/21/2023 4:55 AM	bl	2.381	4 396 032	2.621	0.055	129 278	469 036	2.327	0.239	0.9813	1.0000



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Balance: BAL3
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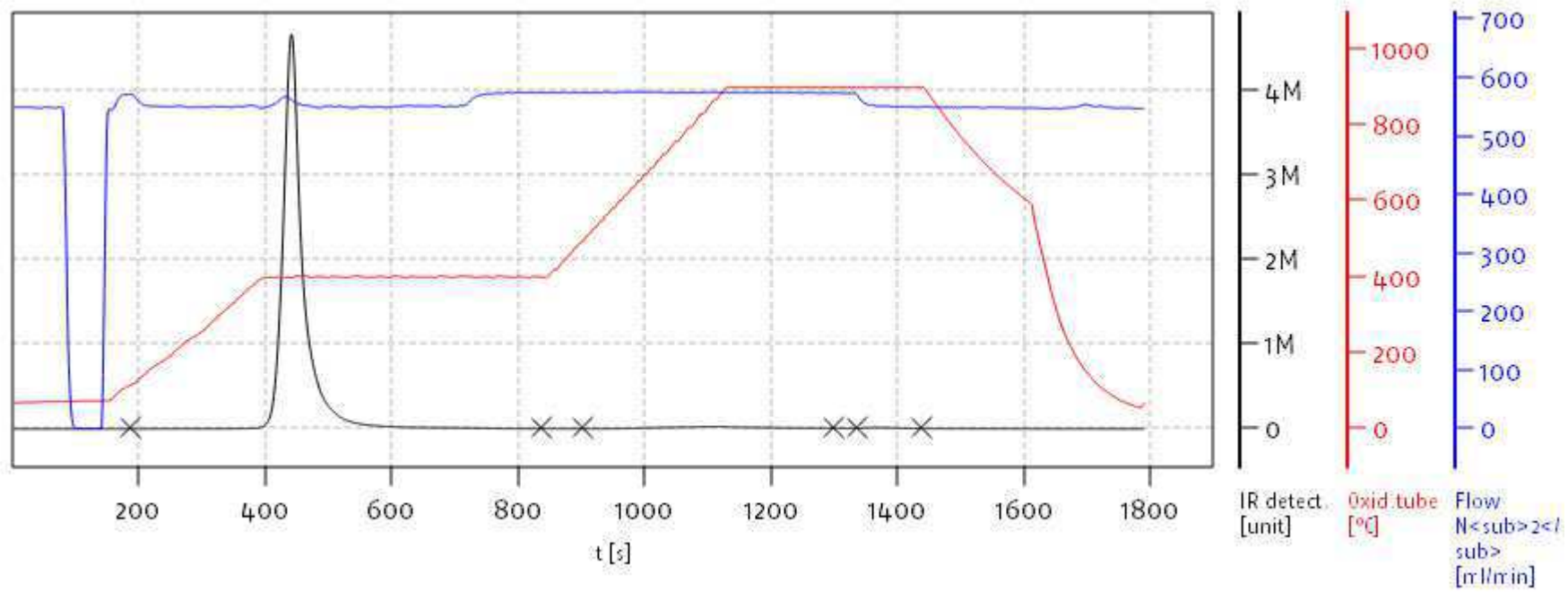
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SLF0283-CCV2	22.40		CARBON	6/21/2023 5:25 AM	bl	44.449	6 418 594	45.634	0.052	36 213	196 187	44.397	1.185	0.9813	1.0000



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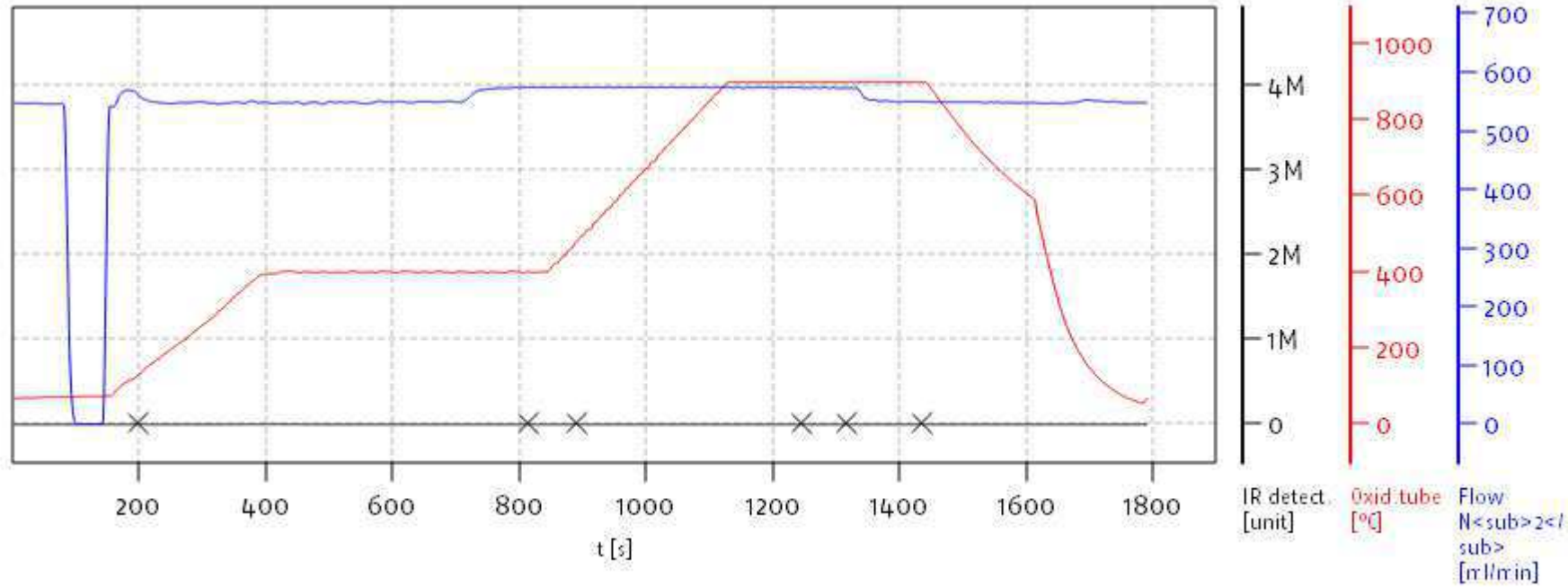
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SLF0283-CCB2	529.80		CARBON	6/21/2023 5:55 AM	bl,C1u,C3u,C2u	0.000	5 891	0.000	0.000	186	998	0.000	0.000	0.9813	1.0000



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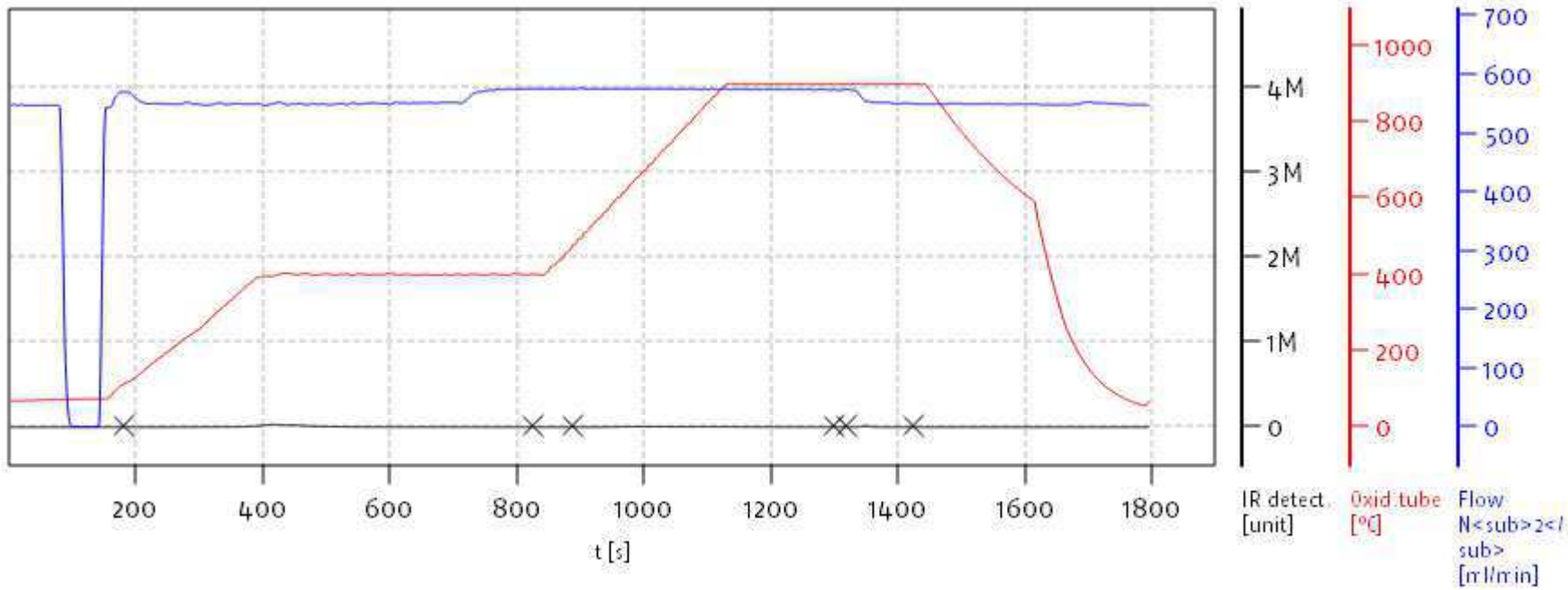
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	23D0663-01	72.20		CARBON	6/21/2023 6:25 AM	bl,C2u	0.187	115 731	0.224	0.000	8 585	45 764	0.187	0.037	0.9813	1.0000



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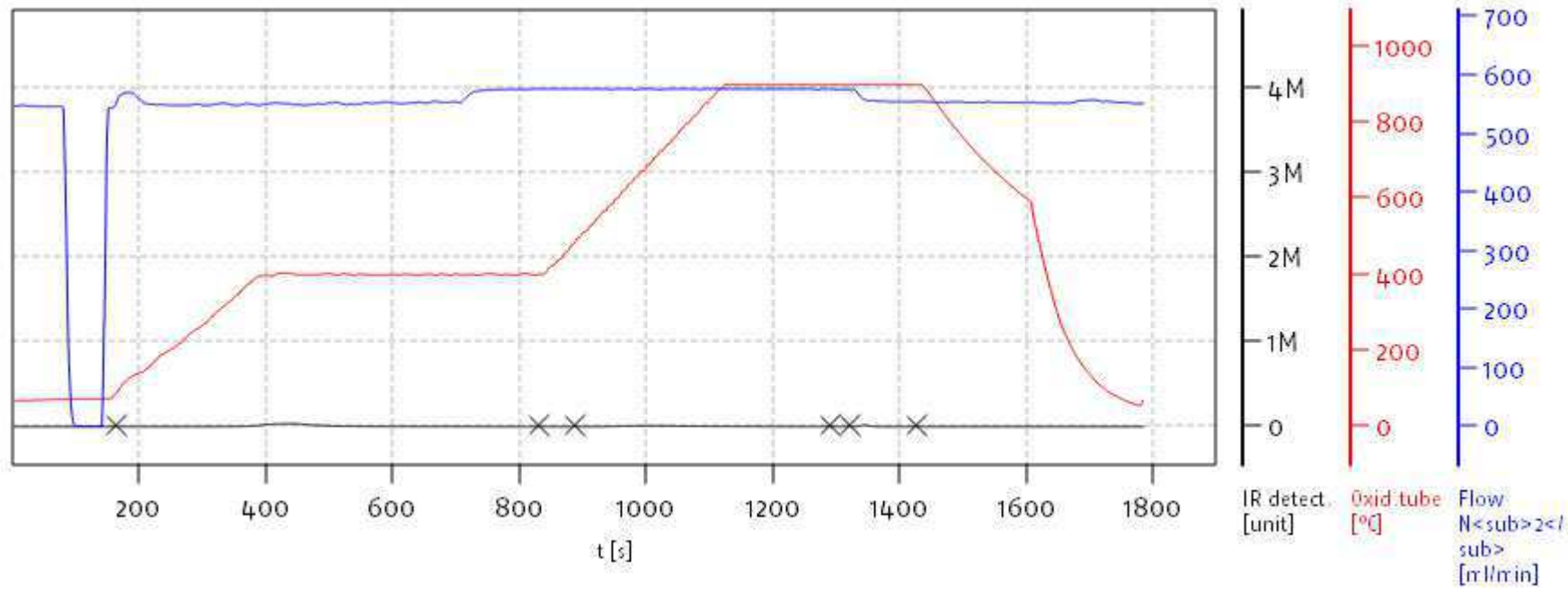
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	BLF0524-DUP1	101.20		CARBON	6/21/2023 6:55 AM	bl,C2u	0.171	139 983	0.216	0.000	10 845	57 713	0.171	0.045	0.9813	1.0000



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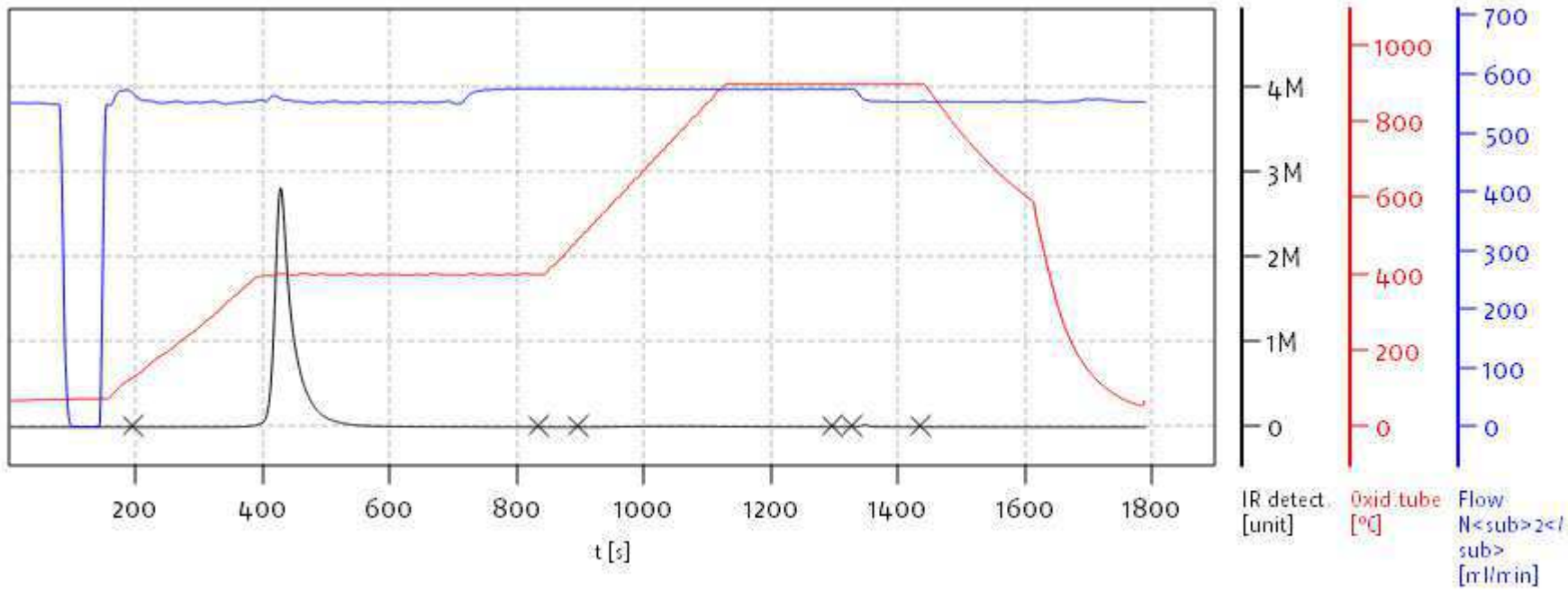
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	BLF0524-MS1	66.20	0.0119	CARBON	6/21/2023 7:26 AM	bl,C2u	8.259	3 541 830	8.376	0.000	19 490	77 747	8.259	0.117	0.9813	1.0000



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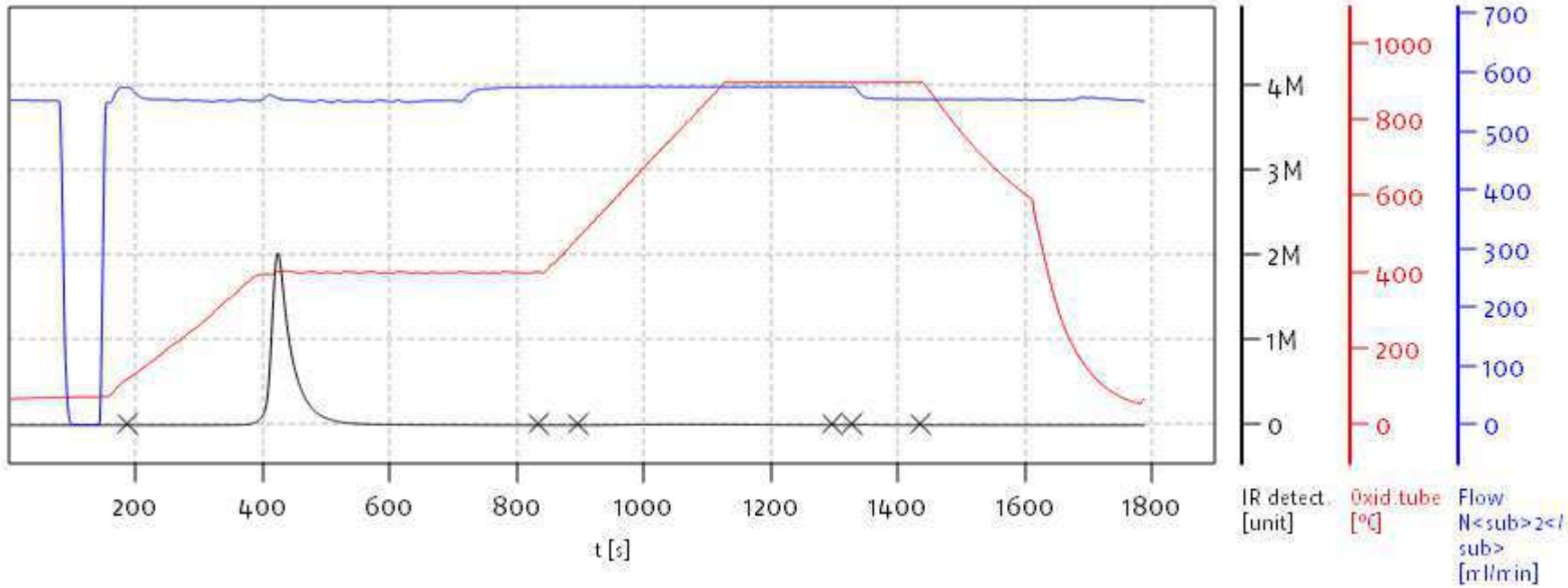
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	BLF0524-MSD1	67.30	0.0093	CARBON	6/21/2023 7:56 AM	bl,C2u	6.390	2 792 146	6.491	0.000	8 196	71 741	6.390	0.101	0.9813	1.0000



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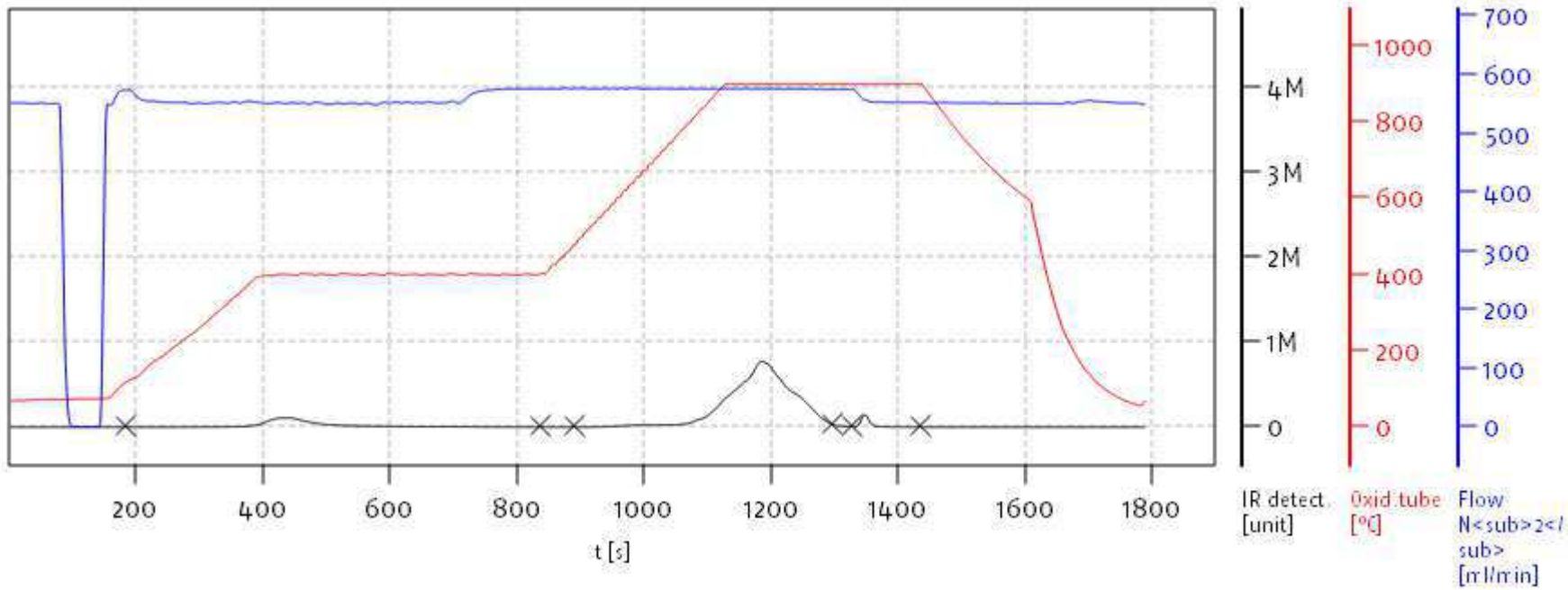
Document: 062023 CDE from: 6/23/2023 12:51 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	23D0682-04	125.20		CARBON	6/21/2023 8:26 AM	bl	0.559	417 678	4.590	0.075	88 218	3 211 030	0.483	4.031	0.9813	1.0000



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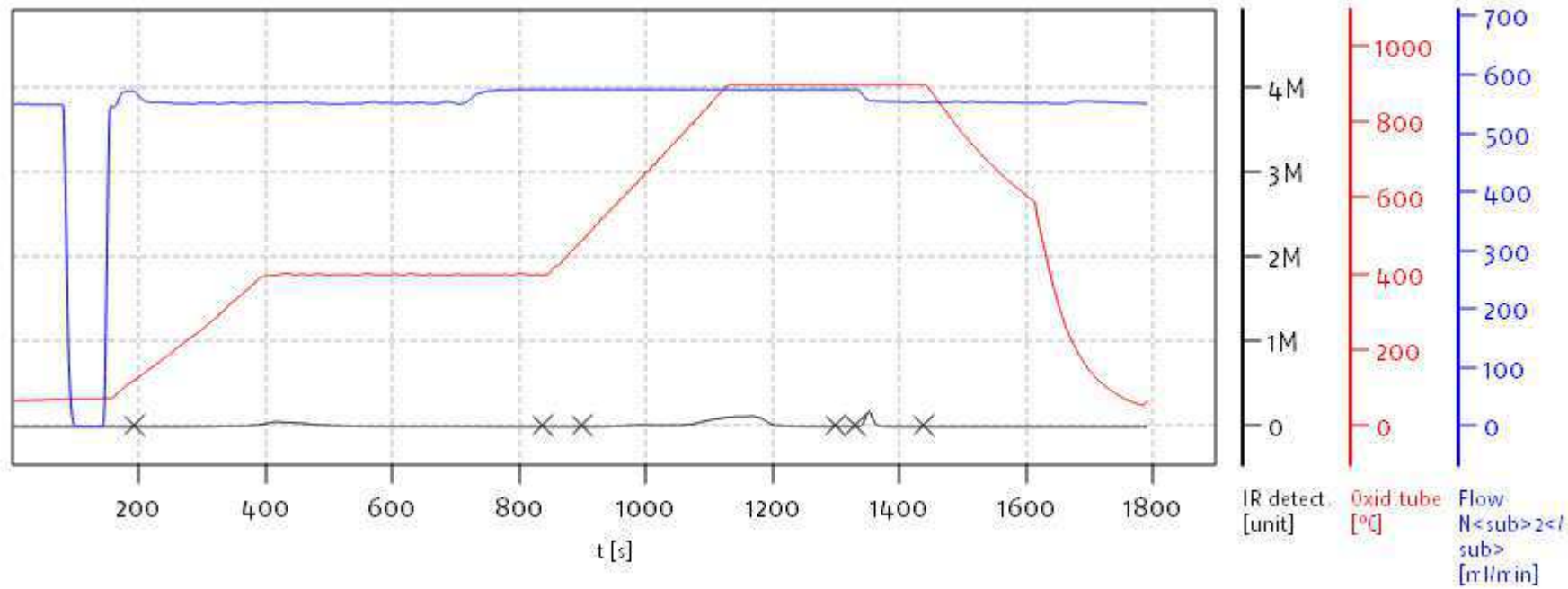
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	BLF0525-DUP1	62.20		CARBON	6/21/2023 8:56 AM	bl	0.646	218 619	1.896	0.171	95 878	519 196	0.475	1.250	0.9813	1.0000



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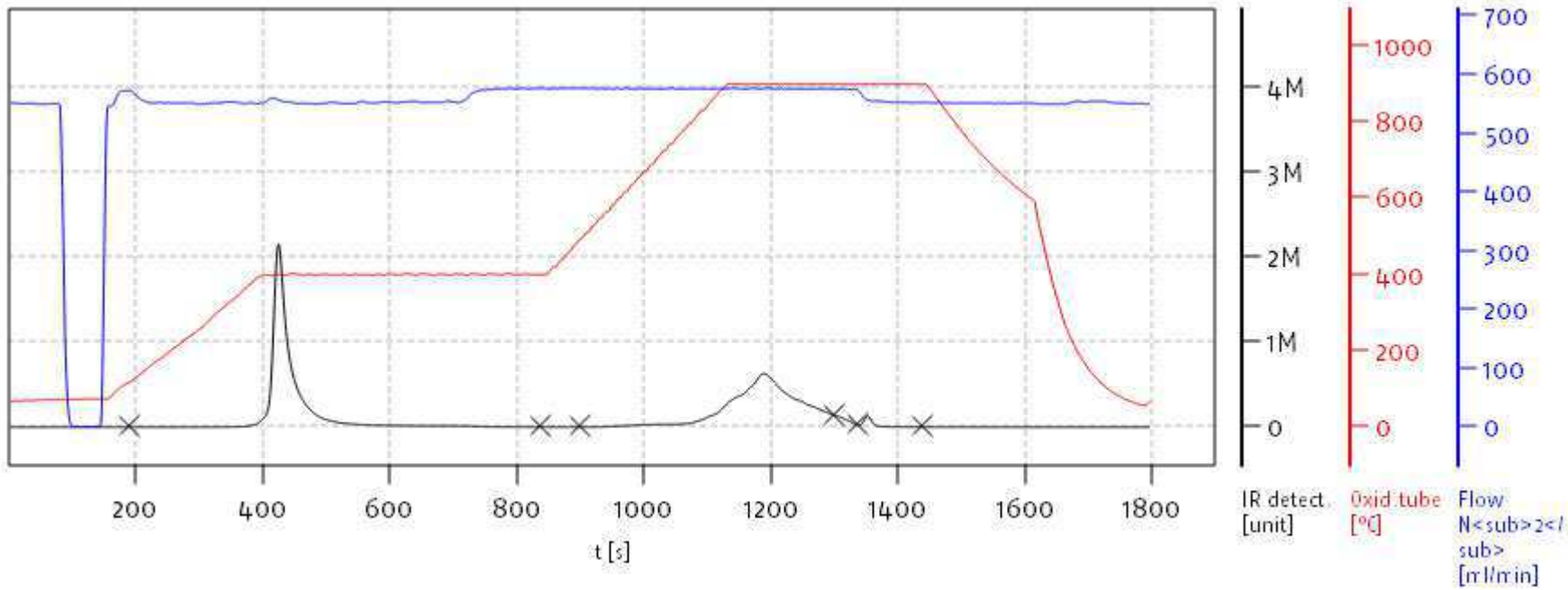
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	BLF0525-MS1	117.30	0.0079	CARBON	6/21/2023 9:27 AM	bl	3.519	2 627 841	7.242	0.070	80 950	2 782 299	3.448	3.723	0.9813	1.0000



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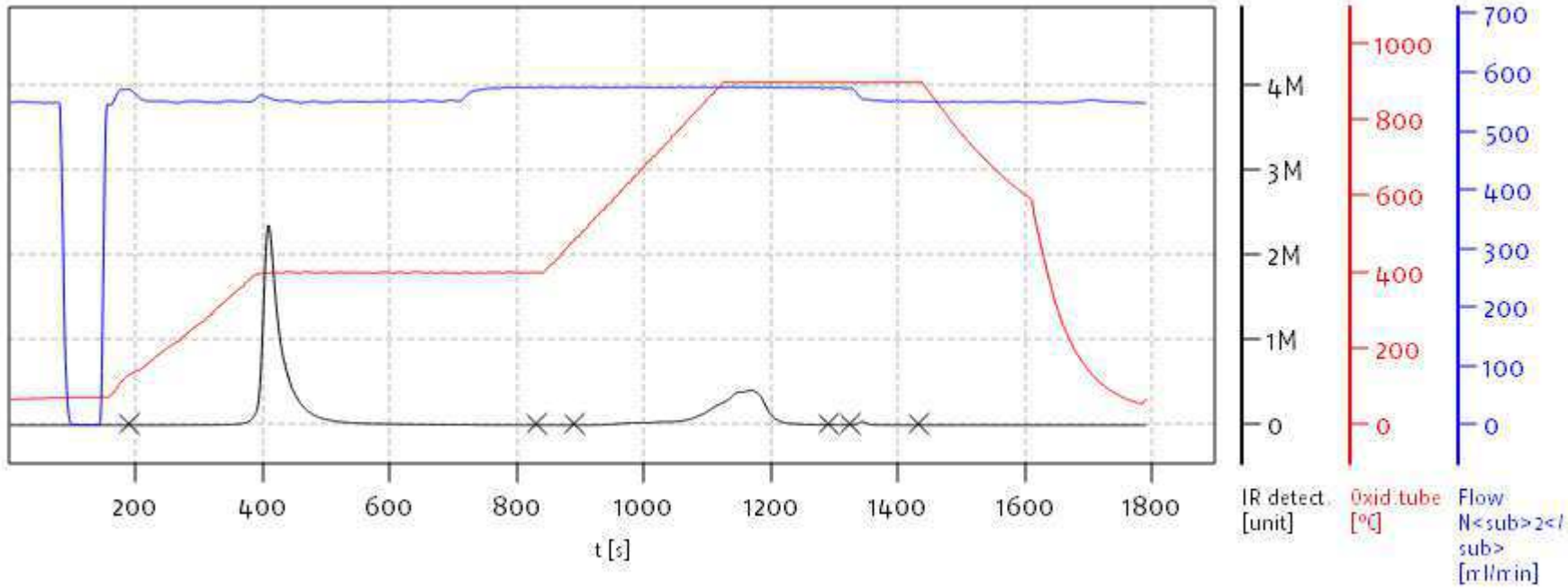
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	BLF0525-MSD1	128.10	0.0088	CARBON	6/21/2023 9:57 AM	bl	3.698	3 072 182	5.520	0.000	25 319	1 500 381	3.698	1.822	0.9813	1.0000



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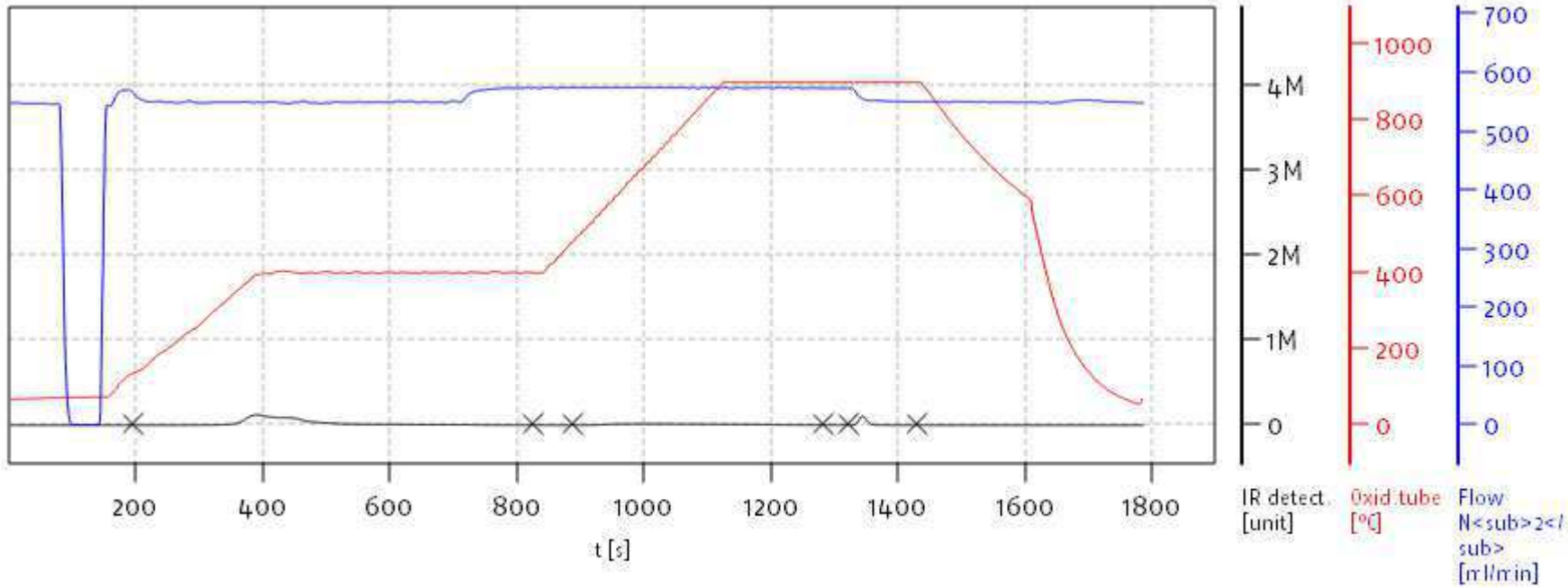
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	23D0136-02	70.20		CARBON	6/21/2023 10:27 AM	bl	1.106	497 205	1.327	0.068	58 777	126 835	1.038	0.221	0.9813	1.0000



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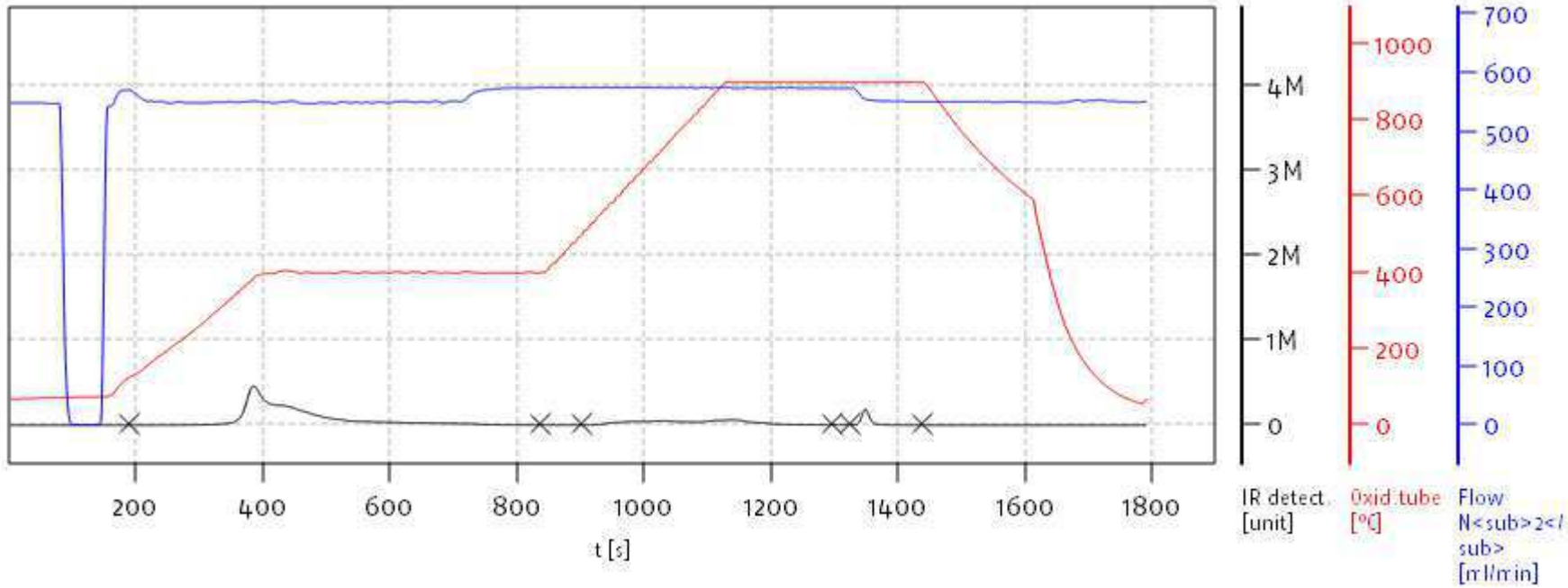
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	23D0136-03	192.60		CARBON	6/21/2023 10:57 AM	bl	1.277	1 529 359	1.617	0.065	107 423	441 679	1.213	0.340	0.9813	1.0000



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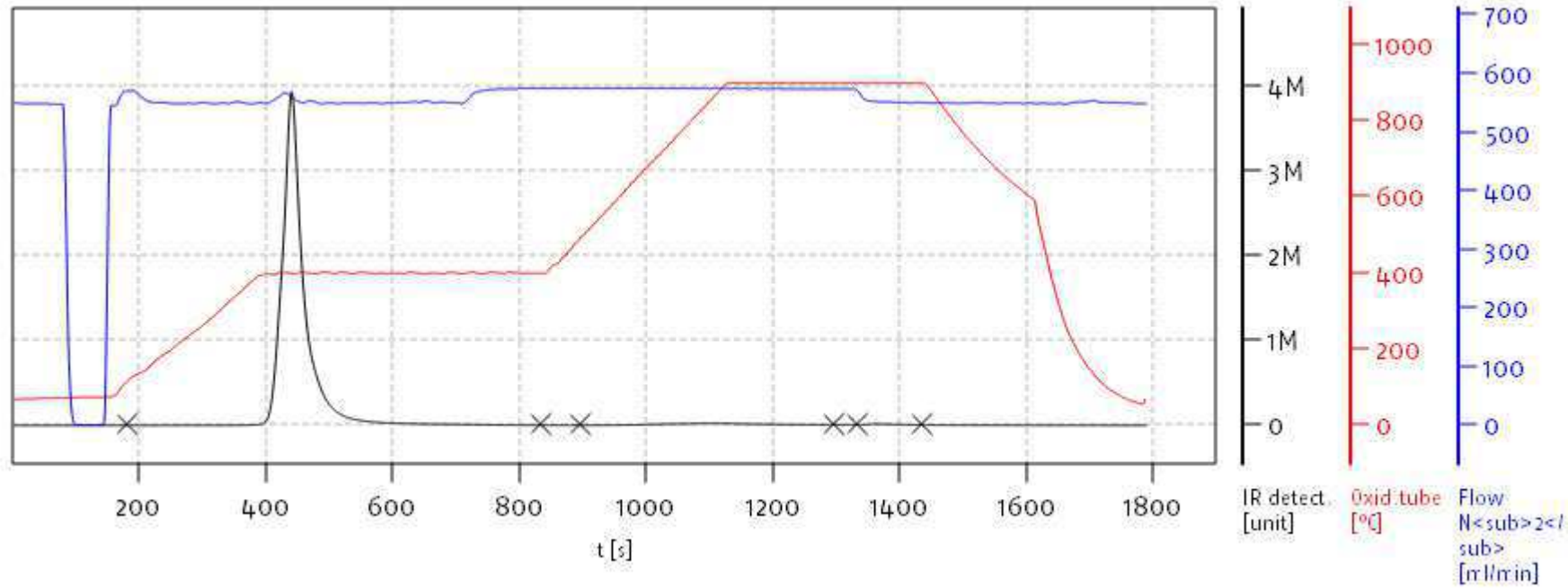
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SLF0283-CCV3	20.90		CARBON	6/21/2023 11:27 AM	bl	43.183	5 815 577	44.371	0.091	40 793	185 387	43.093	1.188	0.9813	1.0000



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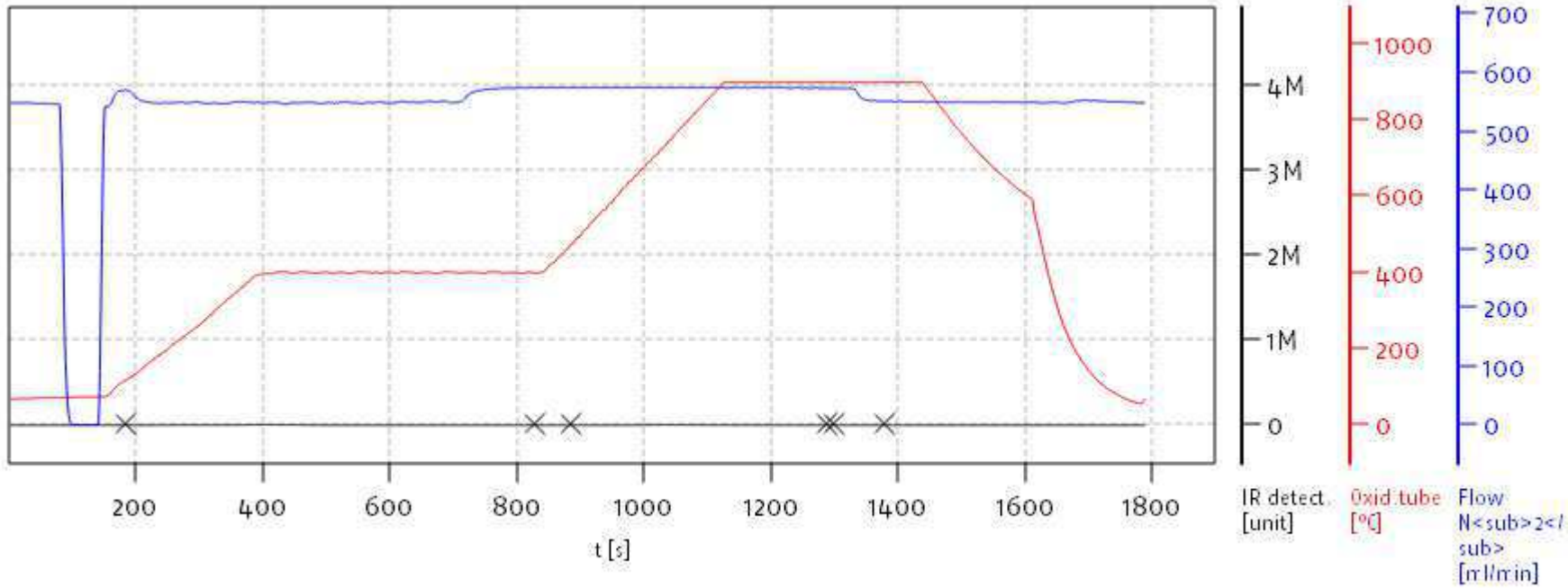
Date: Fri Jun 23 12:52:31 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SLF0283-CCB3	505.10		CARBON	6/21/2023 11:57 AM	bl,C3u,C2u	0.000	25 184	0.000	0.000	601	18 437	0.000	0.000	0.9813	1.0000



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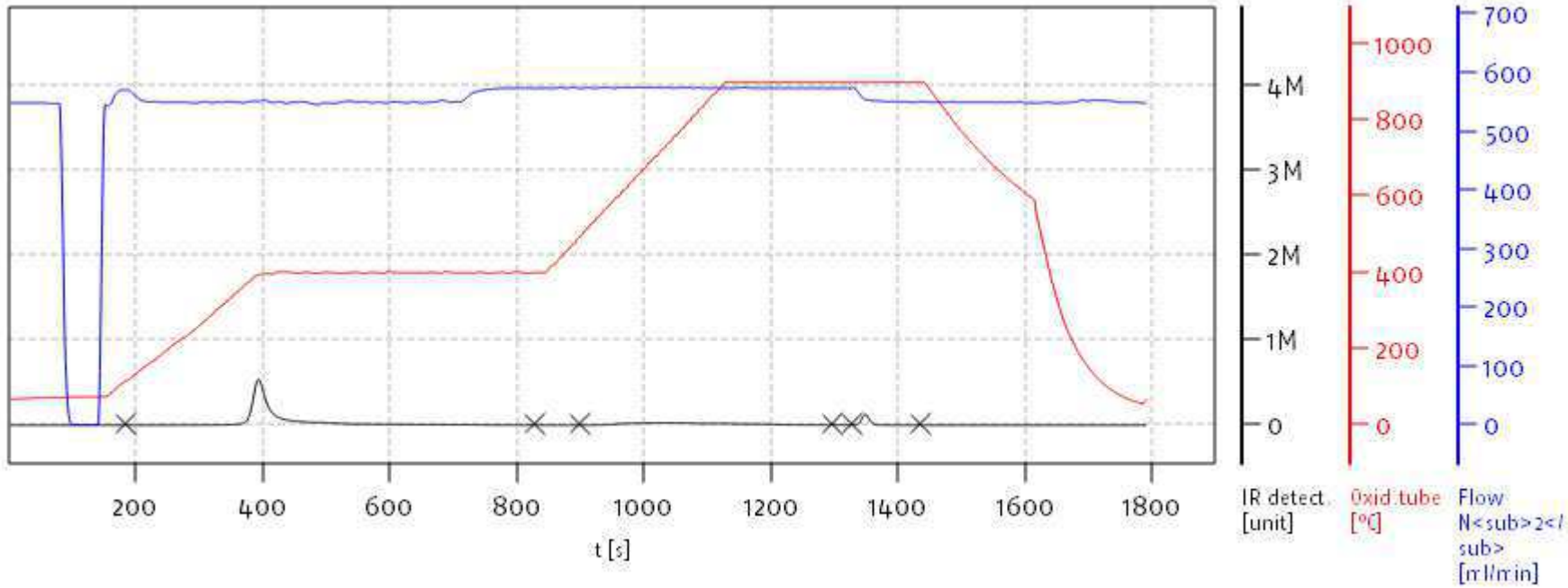
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	23D0136-04	105.70		CARBON	6/21/2023 12:28 PM	bl	1.136	760 171	1.404	0.060	68 615	207 197	1.077	0.268	0.9813	1.0000



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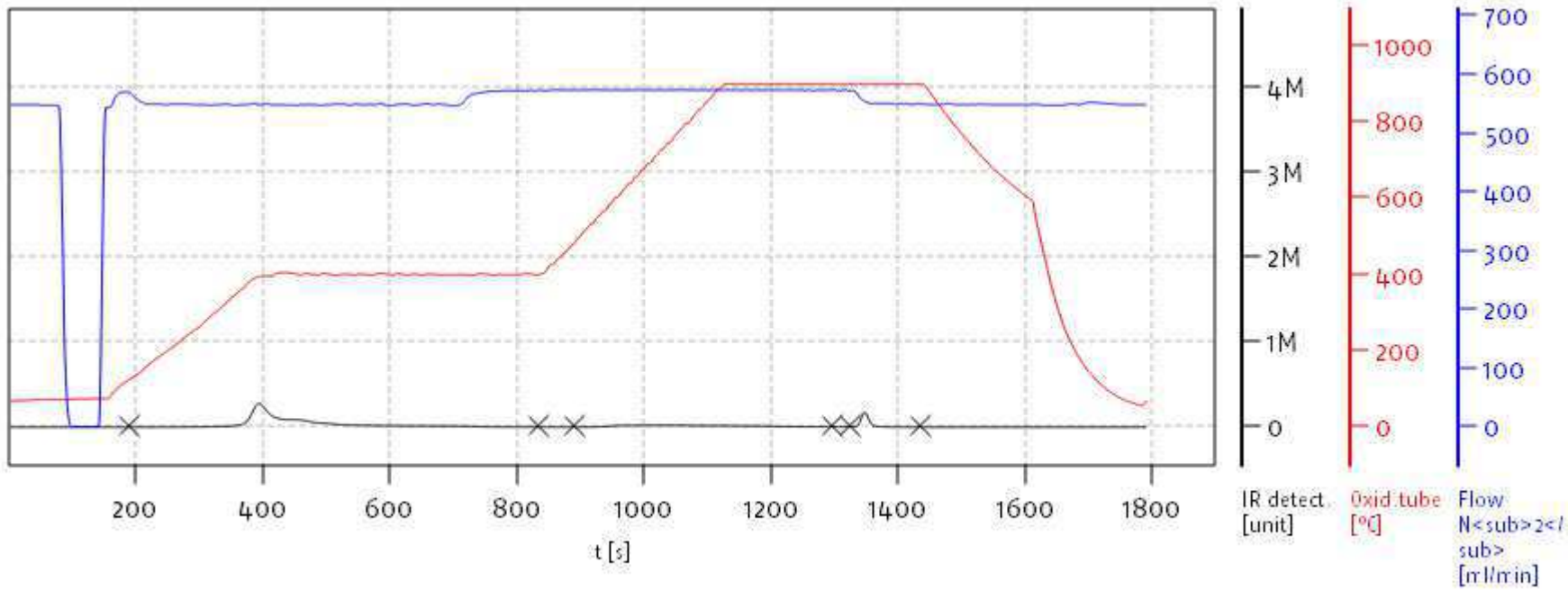
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	23D0577-01	103.10		CARBON	6/21/2023 12:58 PM	bl	1.197	750 787	1.448	0.107	98 551	191 710	1.090	0.251	0.9813	1.0000



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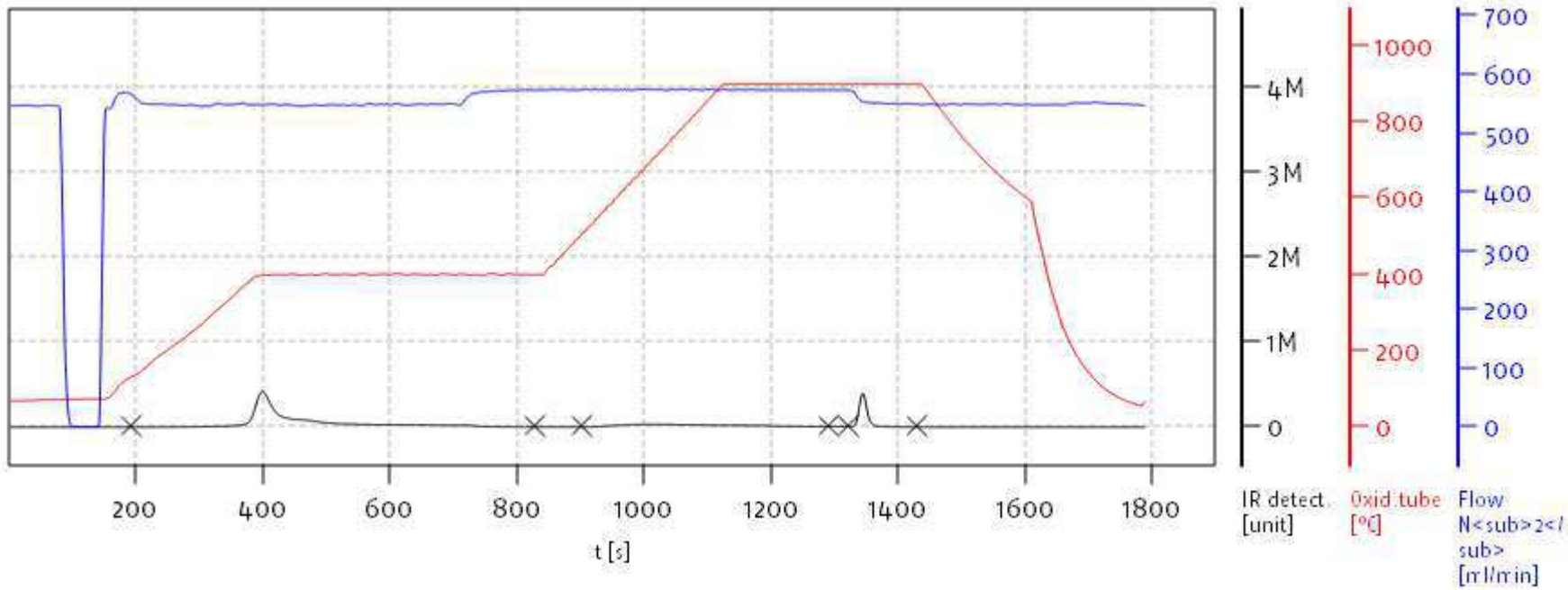
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	23D0577-02	144.20		CARBON	6/21/2023 1:28 PM	bl	1.280	1 016 932	1.547	0.214	223 320	271 194	1.066	0.267	0.9813	1.0000



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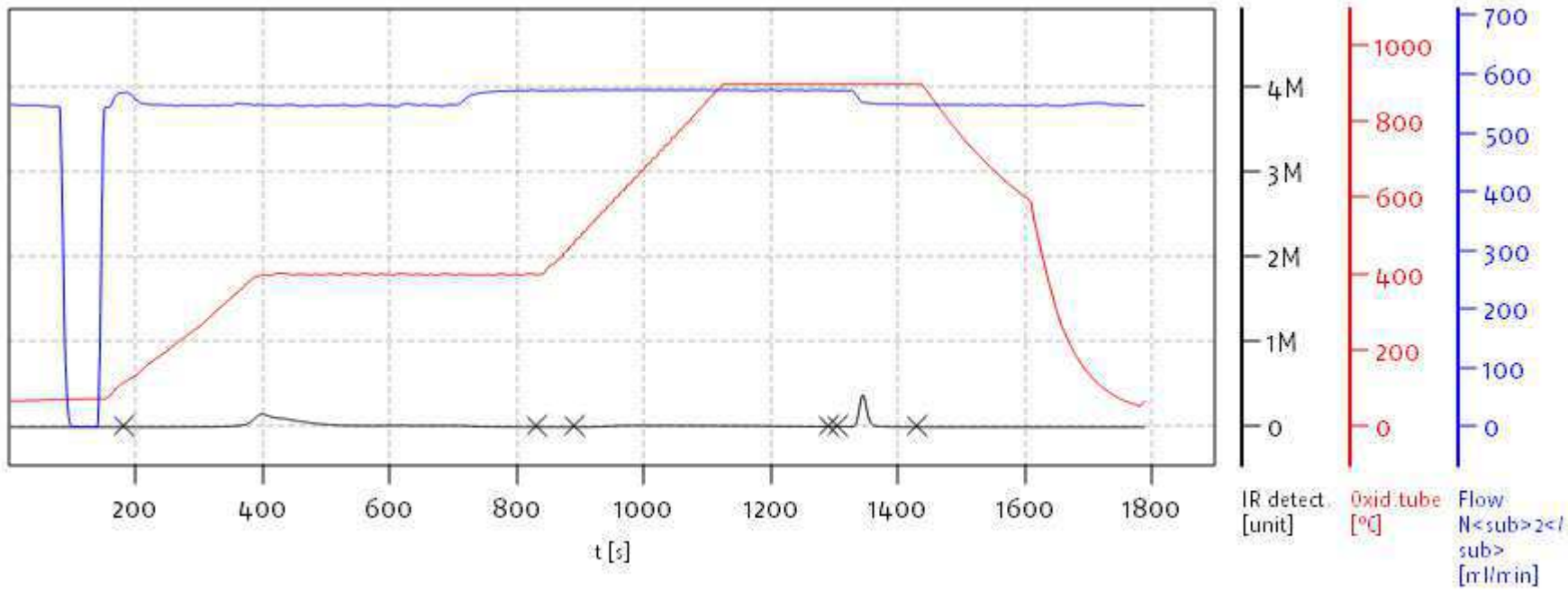
elementar
EXCELLENCE IN ELEMENTS

Document: 062023 CDE from: 6/23/2023 12:51 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	23D0577-03	84.10		CARBON	6/21/2023 1:58 PM	bl	1.384	590 828	1.678	0.344	211 280	184 734	1.040	0.294	0.9813	1.0000



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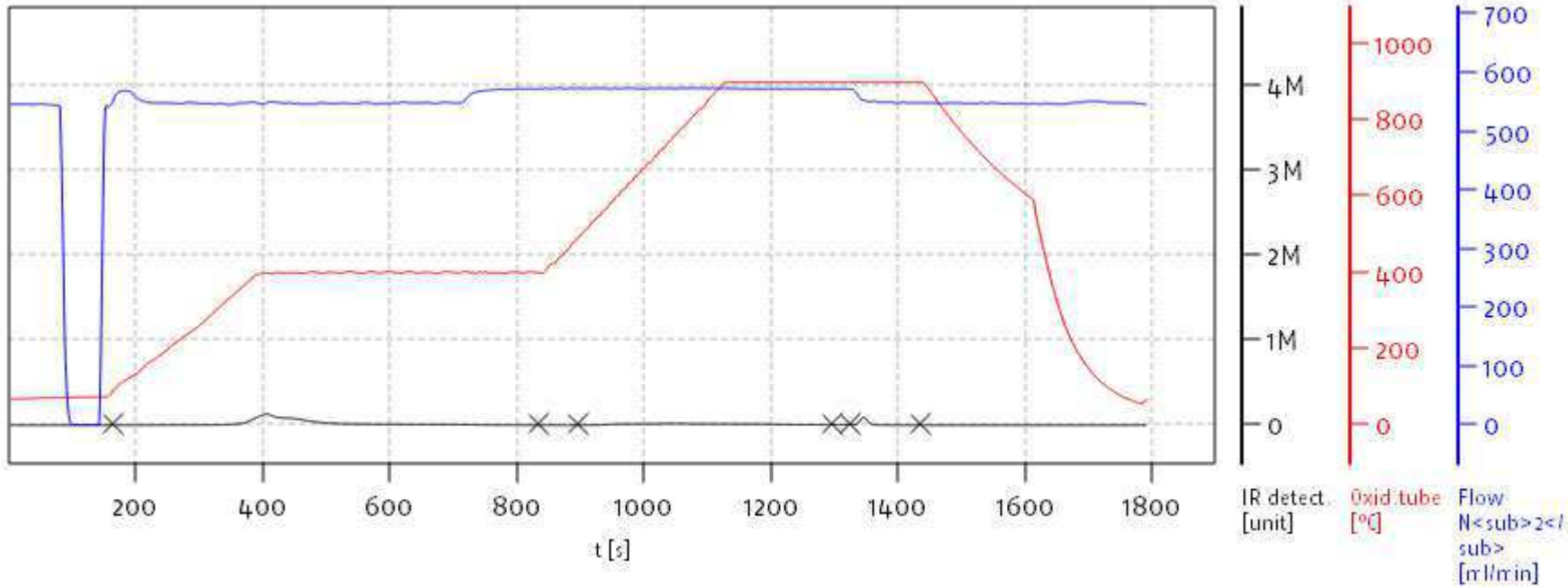
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	23D0577-04	76.40		CARBON	6/21/2023 2:29 PM	bl	0.971	479 886	1.255	0.052	53 830	165 879	0.919	0.284	0.9813	1.0000



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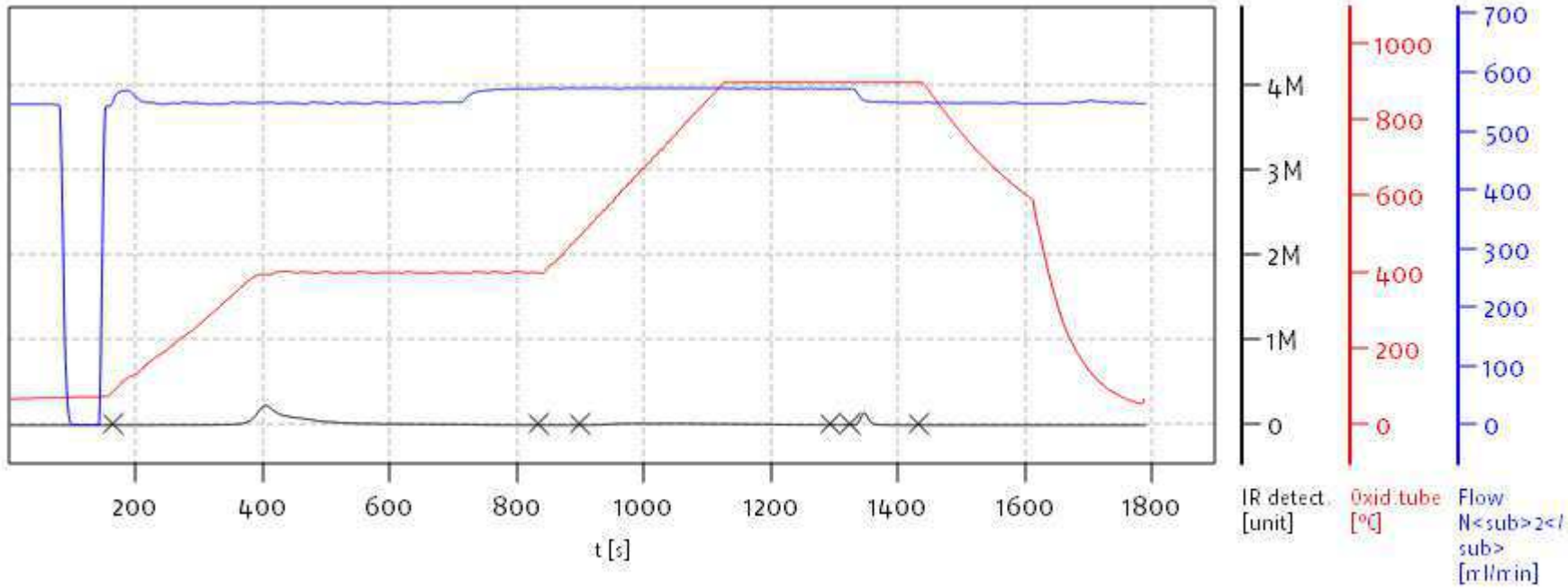
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	23D0577-05	132.50		CARBON	6/21/2023 2:59 PM	bl	0.833	684 325	0.996	0.063	81 722	164 548	0.770	0.162	0.9813	1.0000



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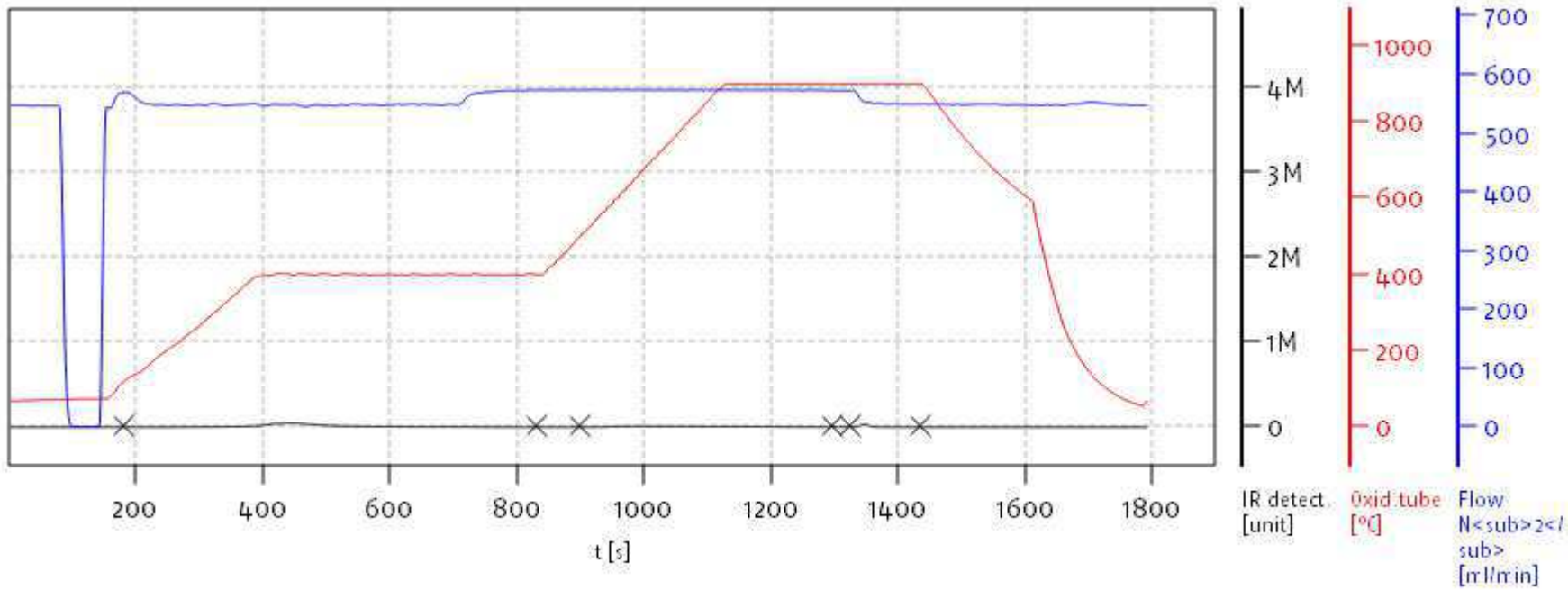
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	23D0577-06	533.50		CARBON	6/21/2023 3:29 PM	bl,C2u	0.056	221 462	0.072	0.000	20 655	83 667	0.056	0.016	0.9813	1.0000



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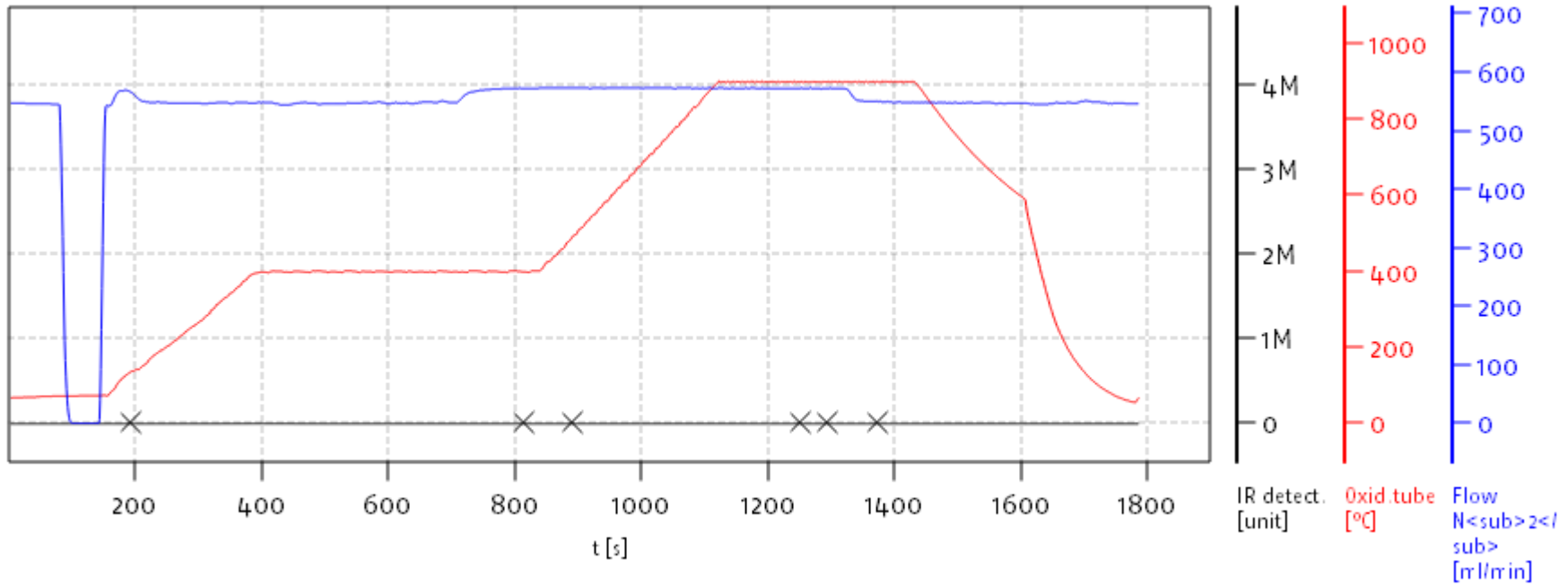
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	6/ 21/2023 3:59 PM	bl	0.000	7 977	0.000	0.000	172	1 587	0.000	0.000	0.9813	1.0000



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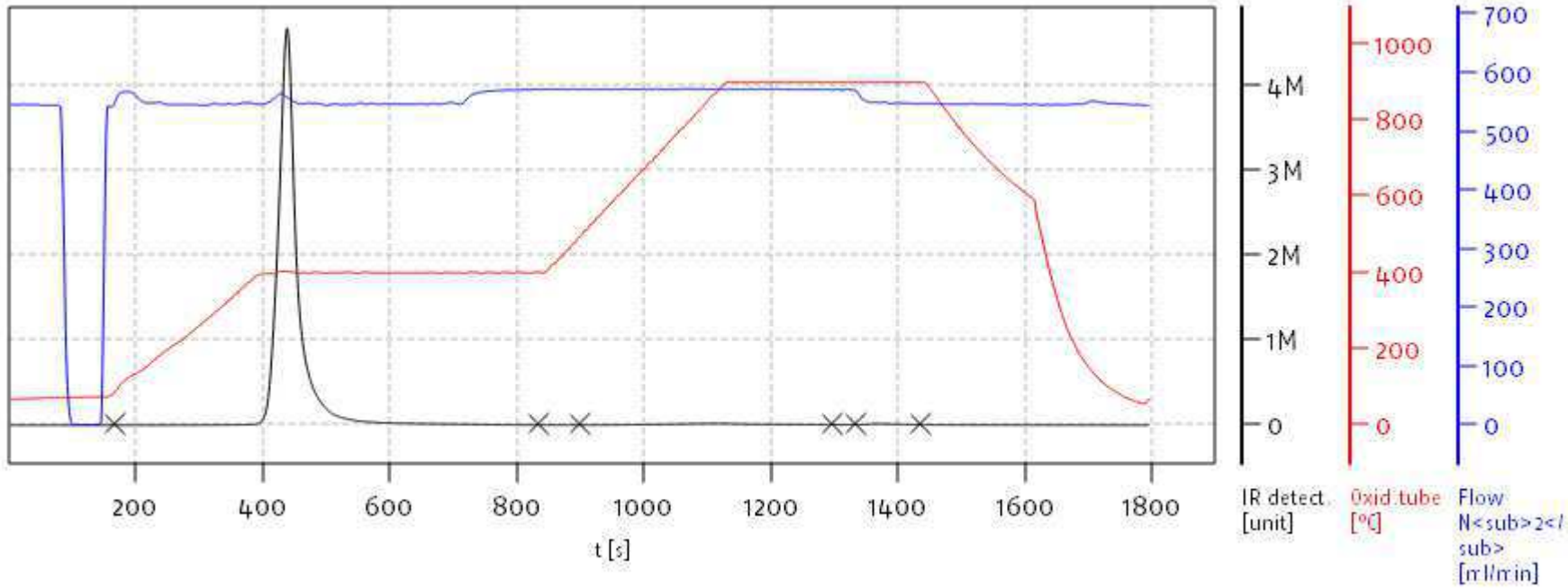
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	21.50		CARBON	6/21/2023 4:29 PM	bl	44.516	6 127 346	45.329	0.071	38 435	139 033	44.446	0.813	0.9879	1.0000



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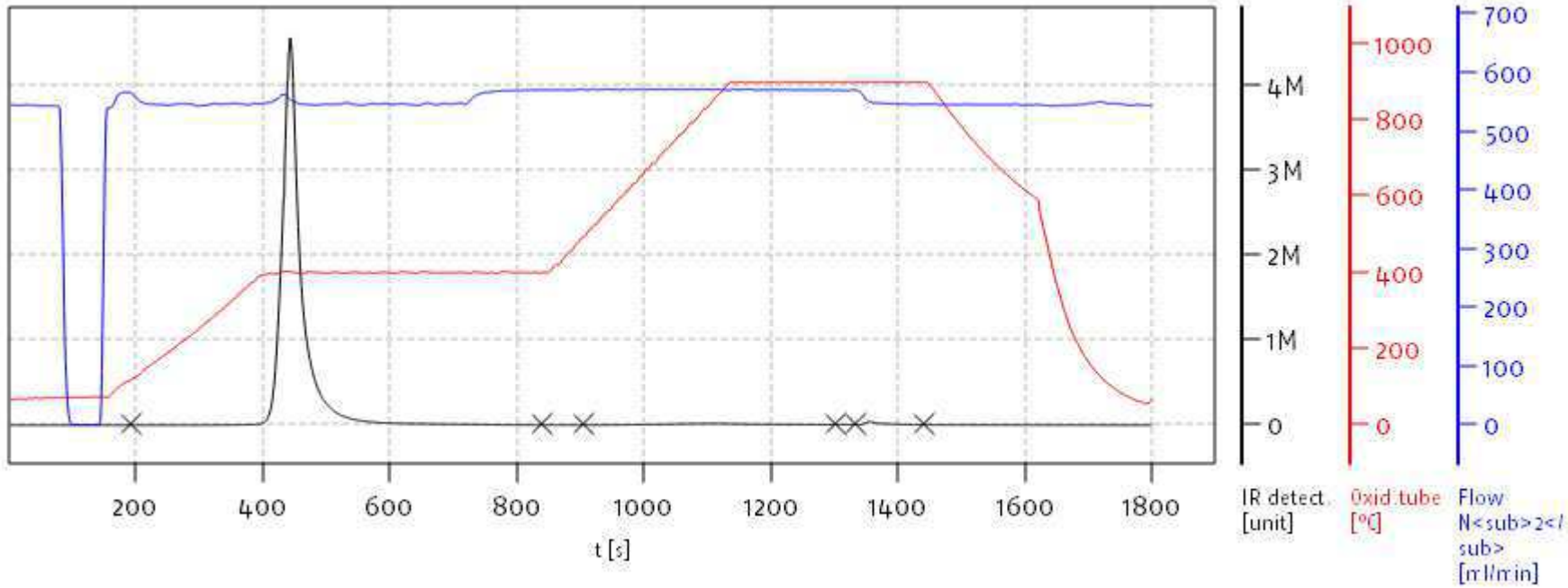
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	20.80		CARBON	6/21/2023 5:00 PM	bl	44.651	5 858 369	45.505	0.206	55 824	140 858	44.446	0.854	0.9998	1.0000



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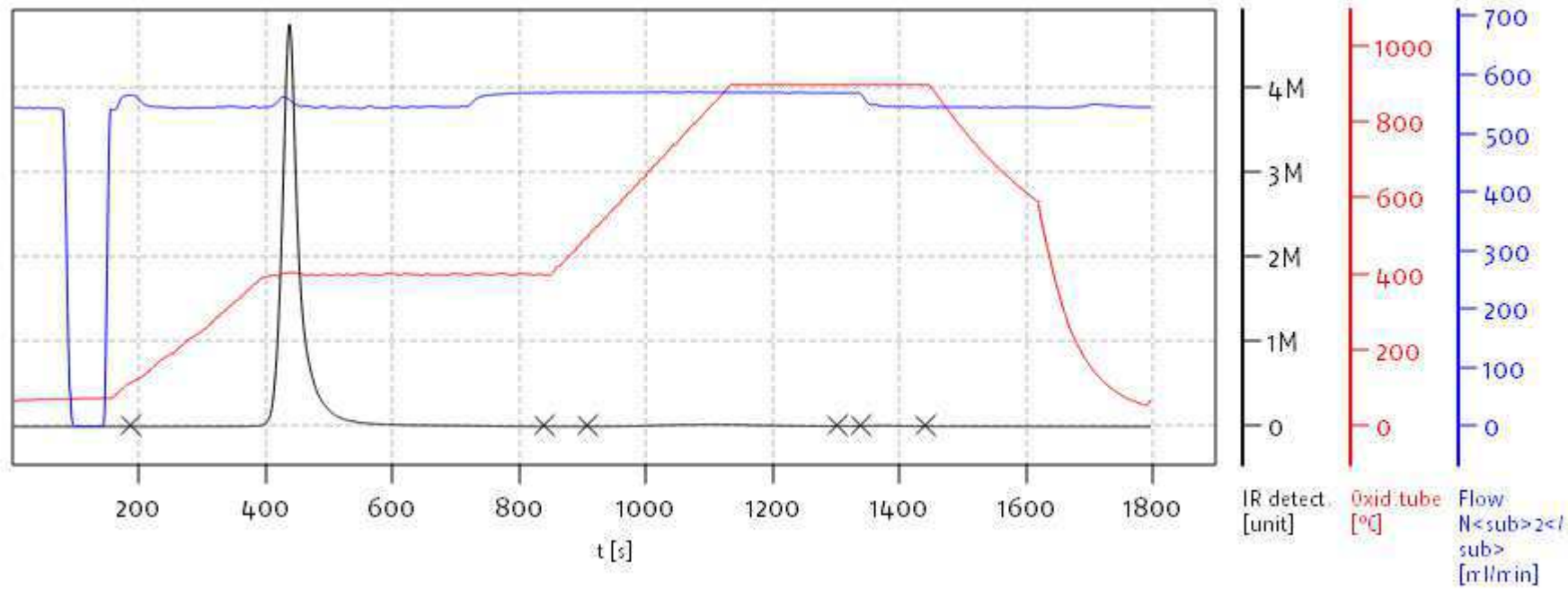
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SLF0283-CCV4	20.40		CARBON	6/21/2023 5:30 PM	bl	45.080	5 862 689	46.280	0.000	26 555	183 169	45.080	1.200	0.9939	1.0000



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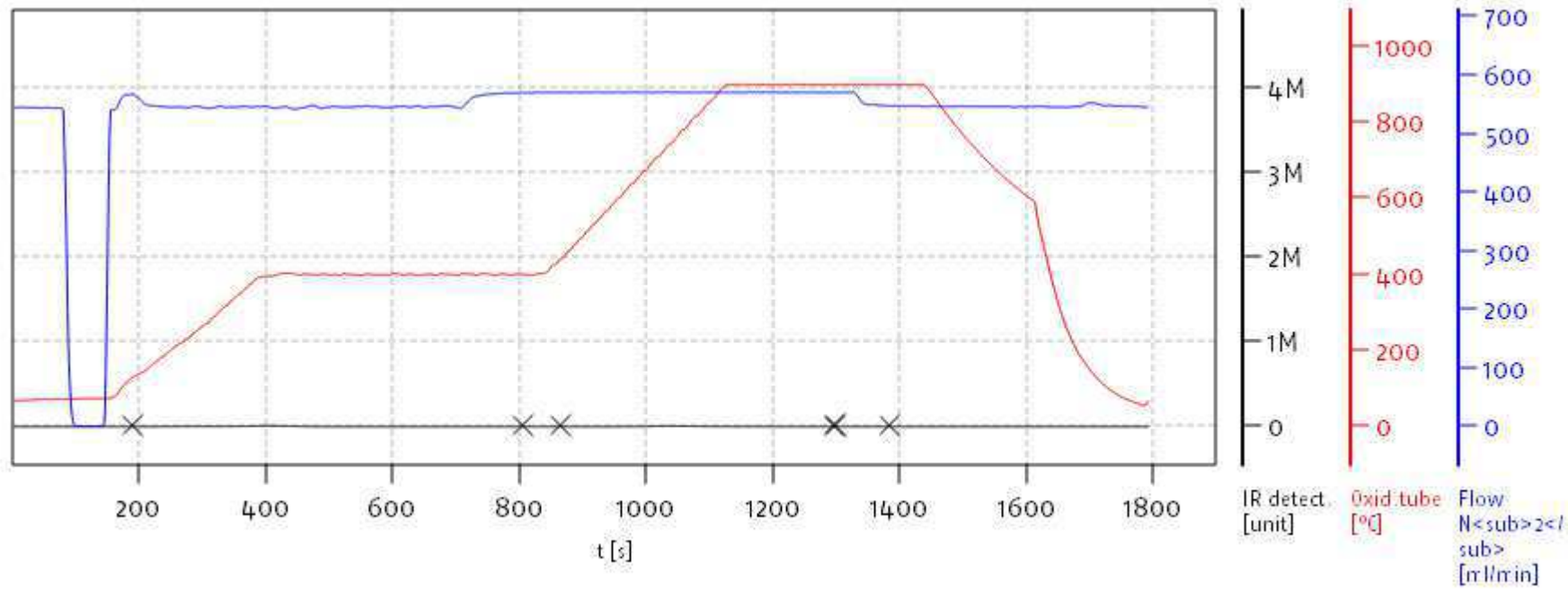
Document: 062023 CDE from: 6/23/2023 12:51 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SLF0283-CCB4	527.10		CARBON	6/21/2023 6:00 PM	bl,C2u	0.003	38 859	0.003	0.000	887	29 853	0.003	0.000	0.9939	1.0000



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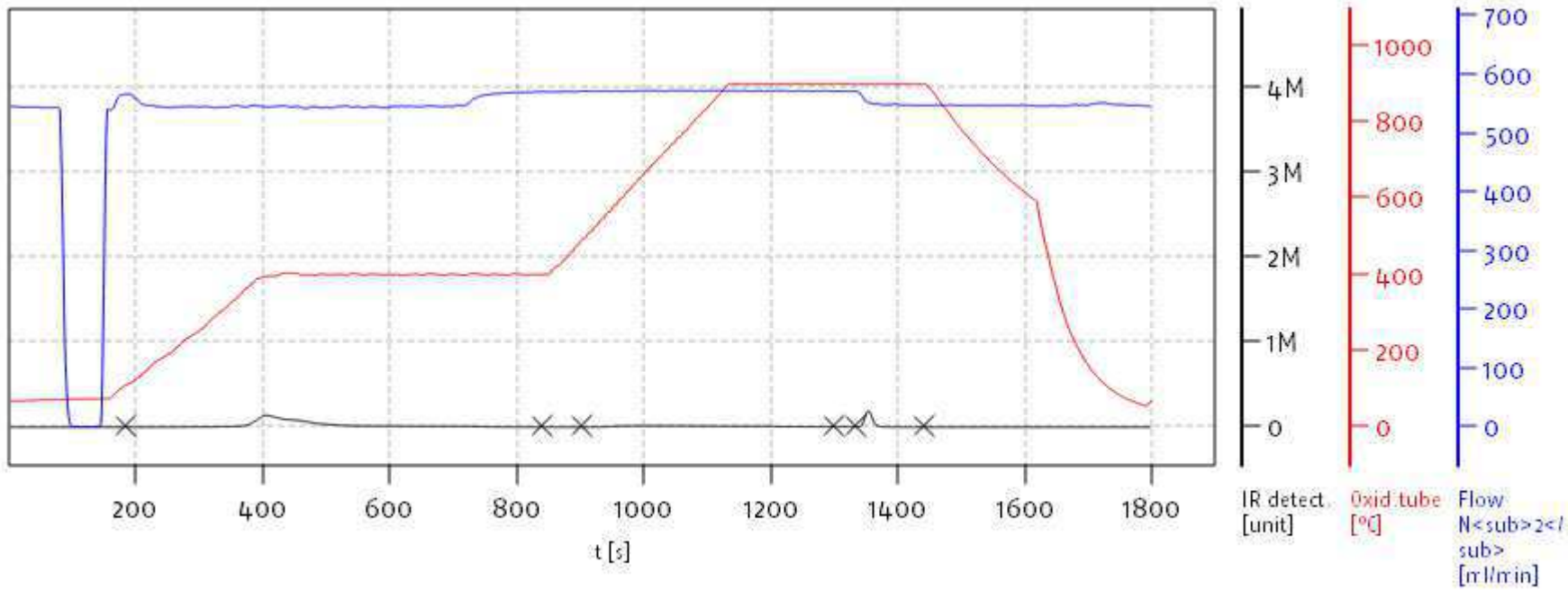
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	23D0577-07	90.00		CARBON	6/21/2023 6:31 PM	bl	1.004	527 758	1.207	0.131	102 976	143 830	0.874	0.203	0.9939	1.0000



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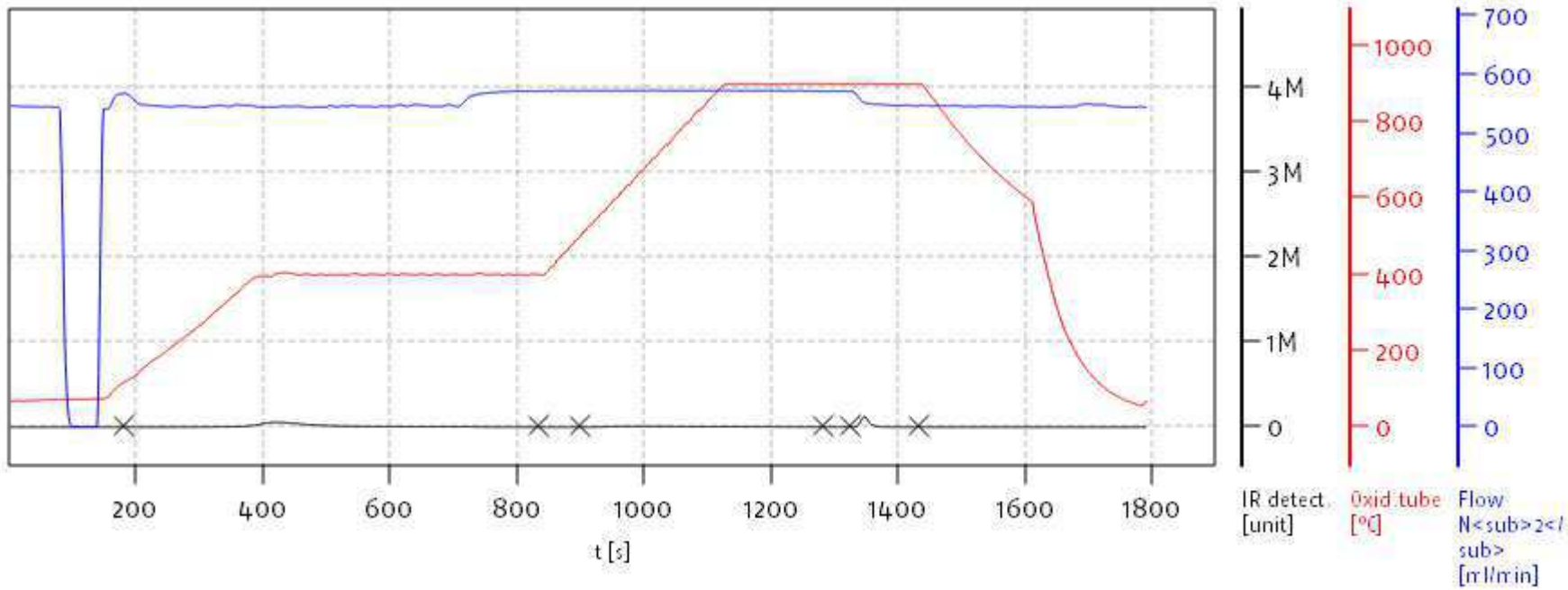
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	23D0577-08	96.00		CARBON	6/21/2023 7:01 PM	bl	0.445	255 123	0.523	0.074	73 613	75 590	0.372	0.077	0.9939	1.0000



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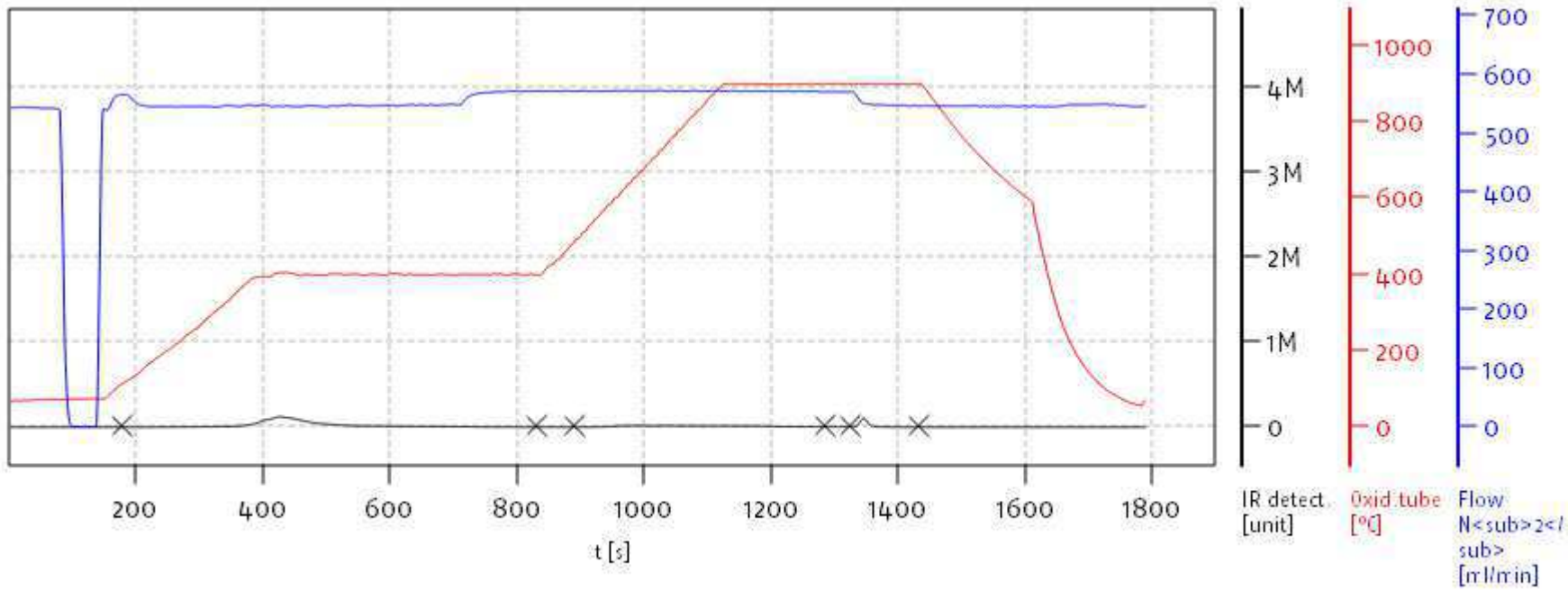
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	23D0577-09	174.00		CARBON	6/21/2023 7:31 PM	bl	0.452	496 207	0.568	0.029	60 539	156 241	0.423	0.116	0.9939	1.0000



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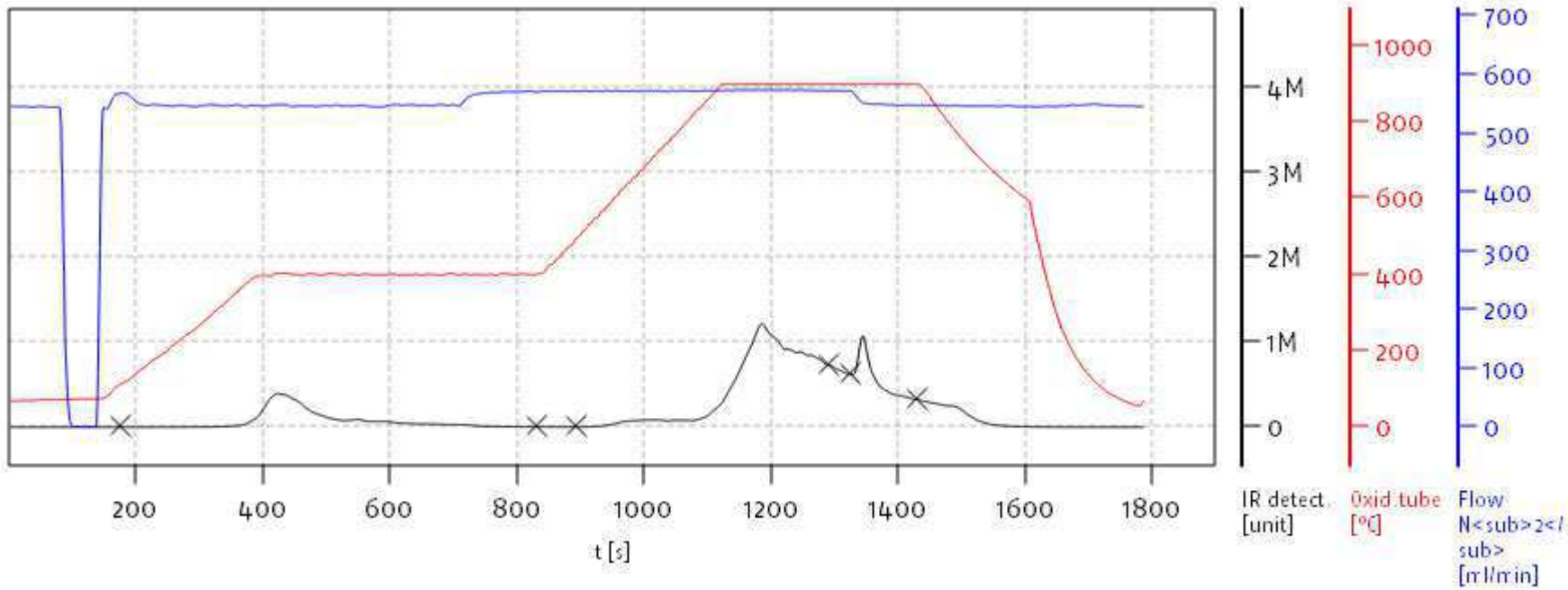
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	23E0009-01	724.60		CARBON	6/21/2023 8:01 PM	bl	0.807	1 672 381	2.120	0.449	2 080 811	6 030 228	0.358	1.314	0.9939	1.0000



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Balance: BAL3
Analyst: CDE

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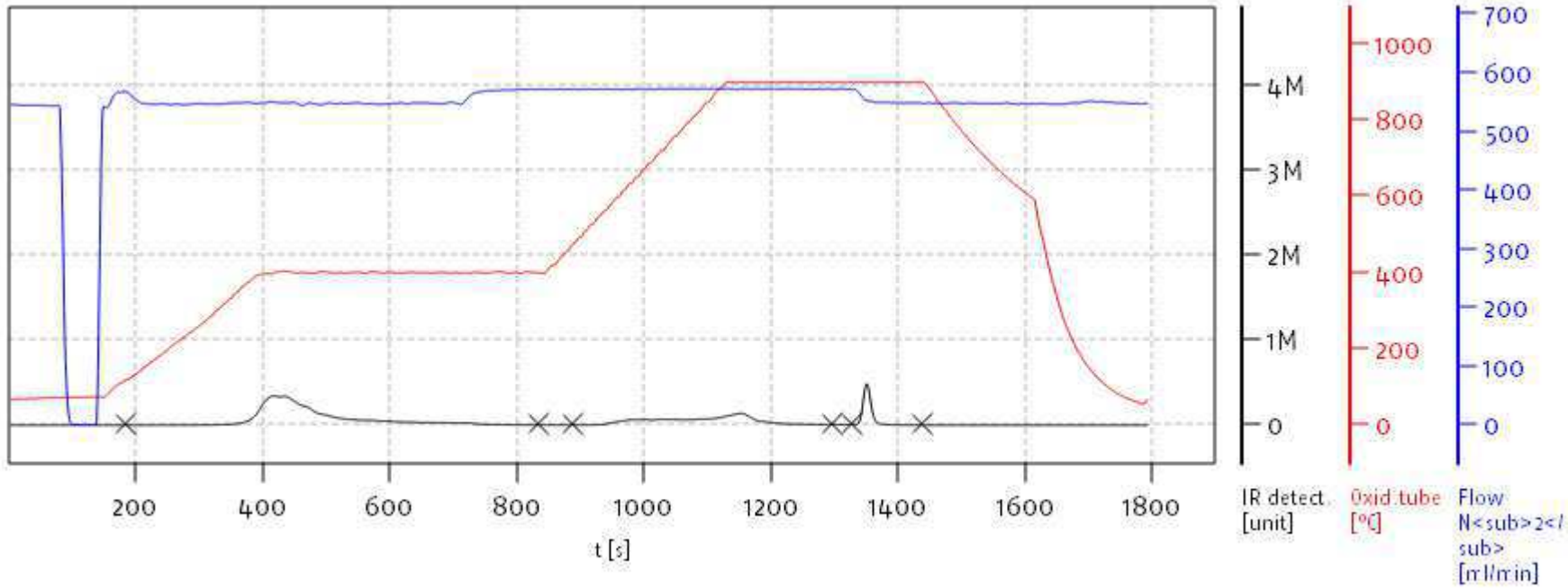
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	23E0009-02	543.80		CARBON	6/21/2023 8:32 PM	bl	0.509	1 537 580	0.717	0.071	273 542	742 518	0.437	0.208	0.9939	1.0000



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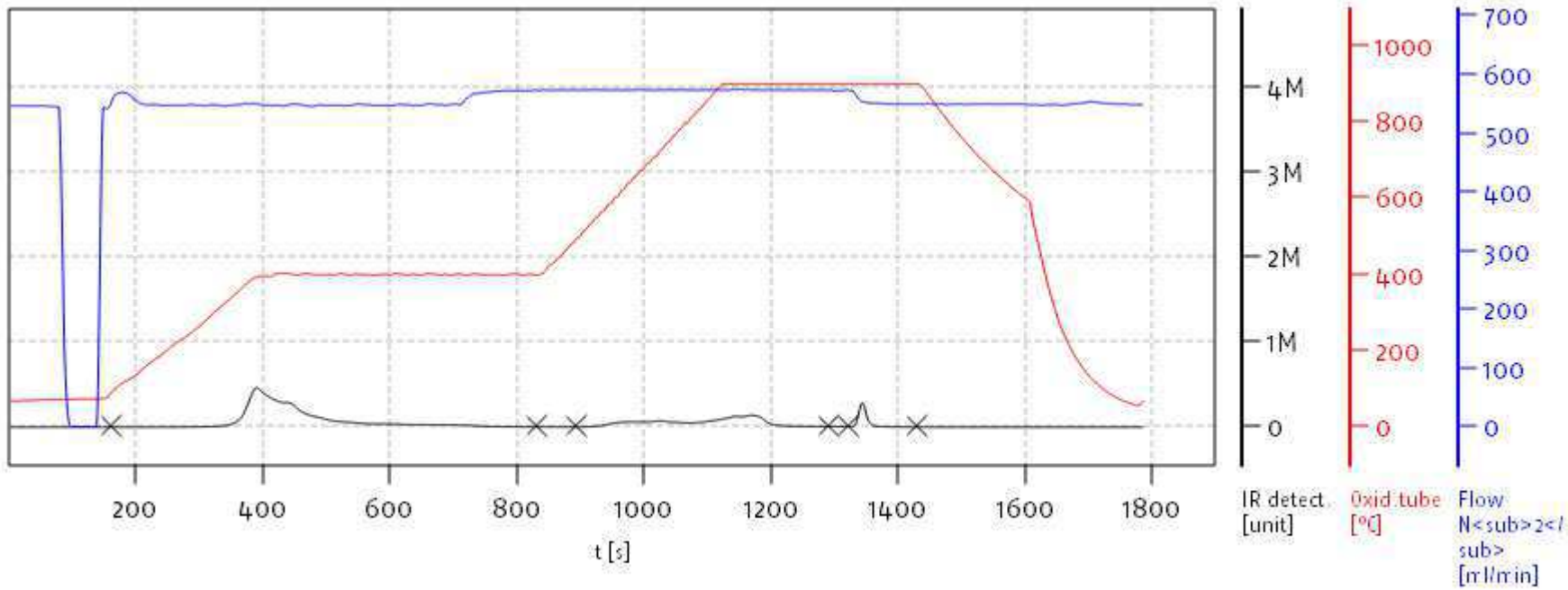
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	23E0009-03	268.60		CARBON	6/21/2023 9:02 PM	bl	1.071	1 720 560	1.524	0.079	162 007	795 012	0.993	0.452	0.9939	1.0000



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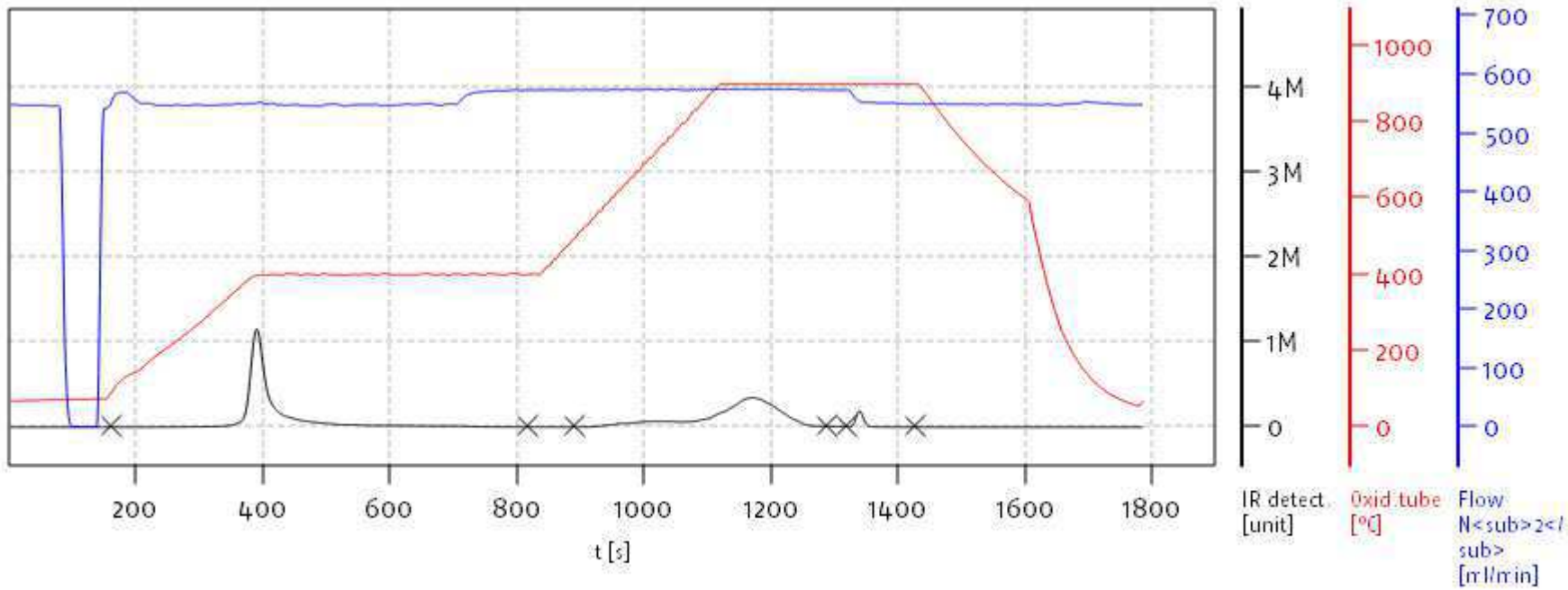
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	23E0009-04	239.30		CARBON	6/21/2023 9:32 PM	bl	1.110	1 638 318	2.153	0.050	103 685	1 602 256	1.060	1.043	0.9939	1.0000



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Date: Fri Jun 23 12:52:31 2023

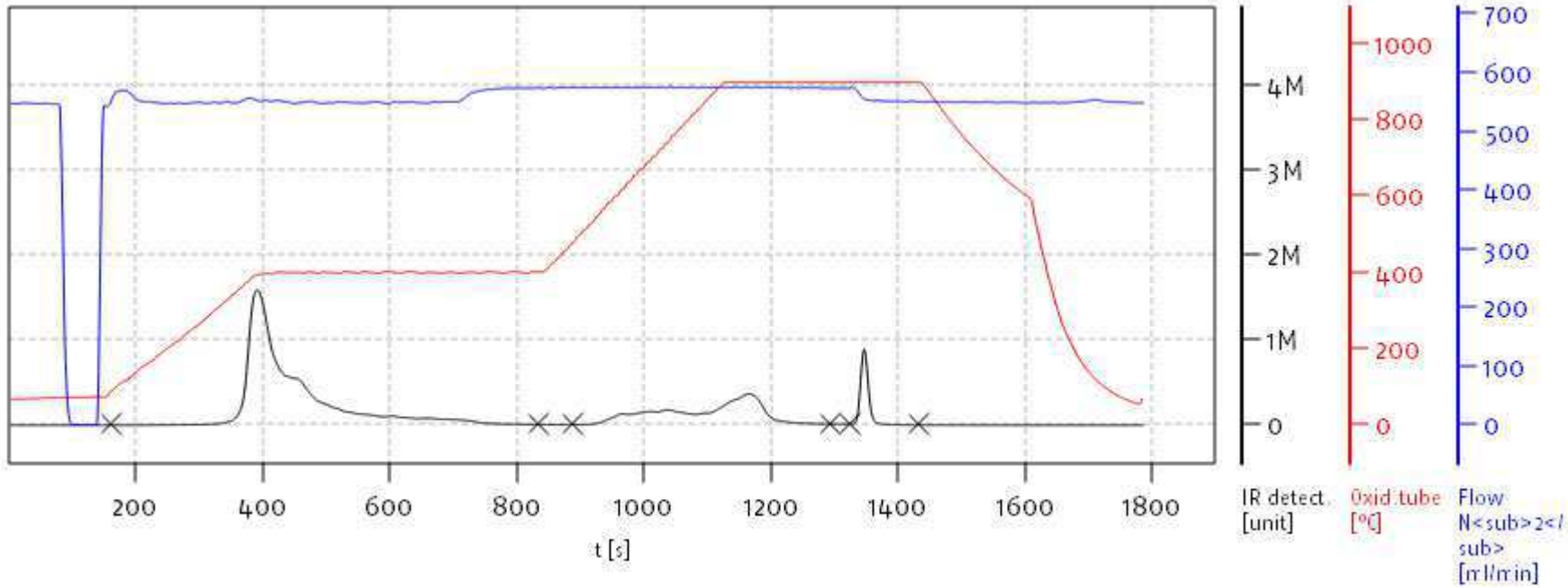
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 062023 CDE from: 6/23/2023 12:51 PM

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	23E0009-05	666.30		CARBON	6/21/2023 10:02 PM	bl	1.222	4 726 835	1.675	0.110	492 606	1 930 945	1.111	0.453	0.9939	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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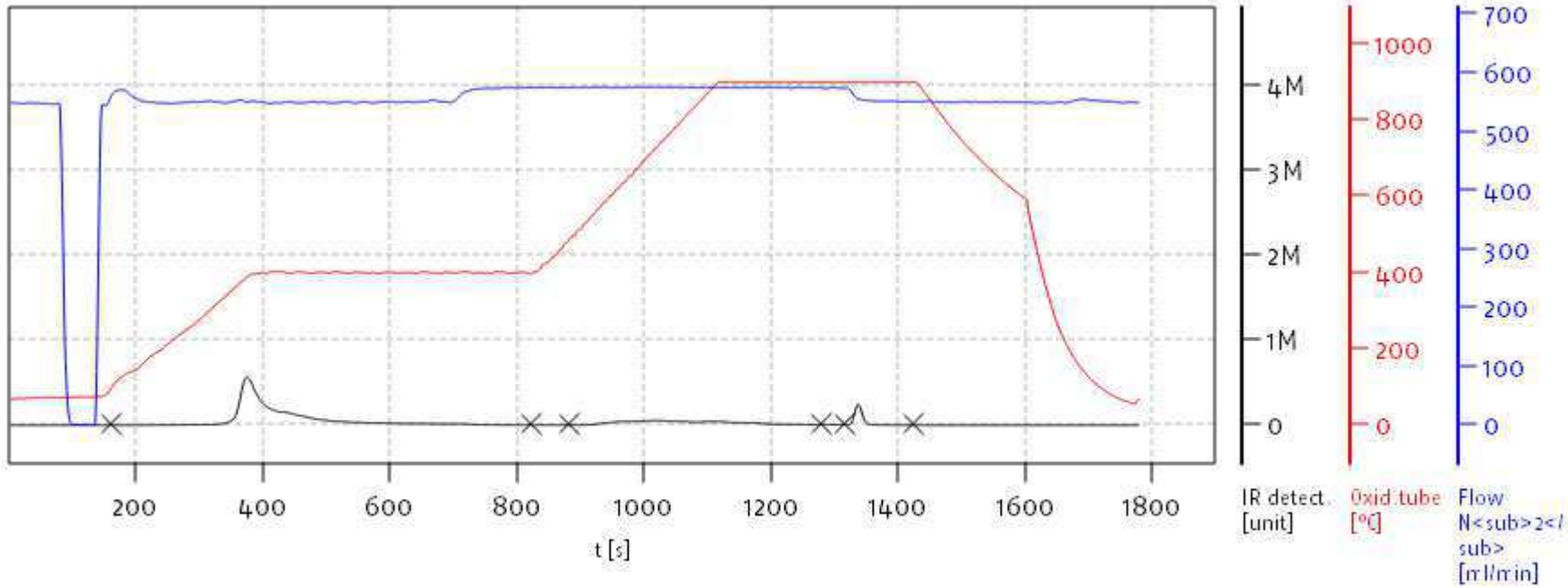
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	23E0009-06	189.60		CARBON	6/21/2023 10:32 PM	bl	1.228	1 397 473	1.554	0.090	136 053	418 898	1.138	0.326	0.9939	1.0000



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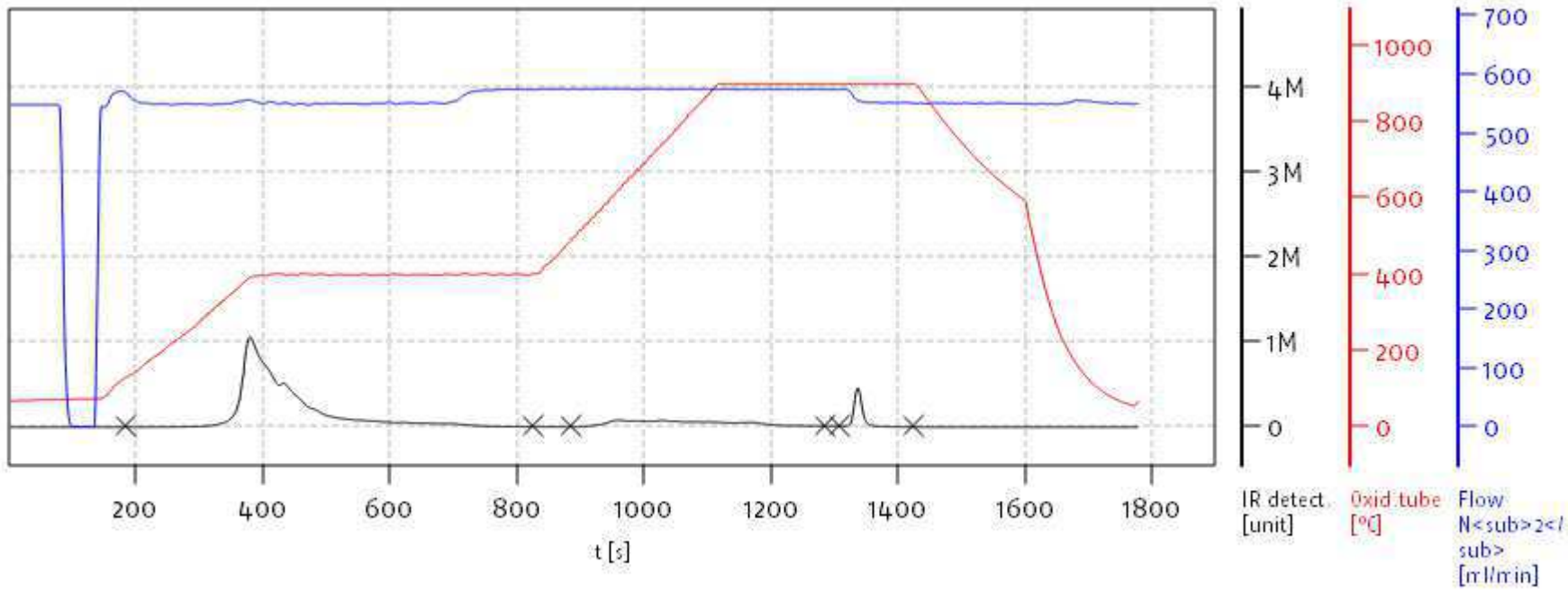
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	23E0009-07	571.30		CARBON	6/21/2023 11:02 PM	bl	0.988	3 366 739	1.169	0.067	268 476	681 751	0.921	0.181	0.9939	1.0000



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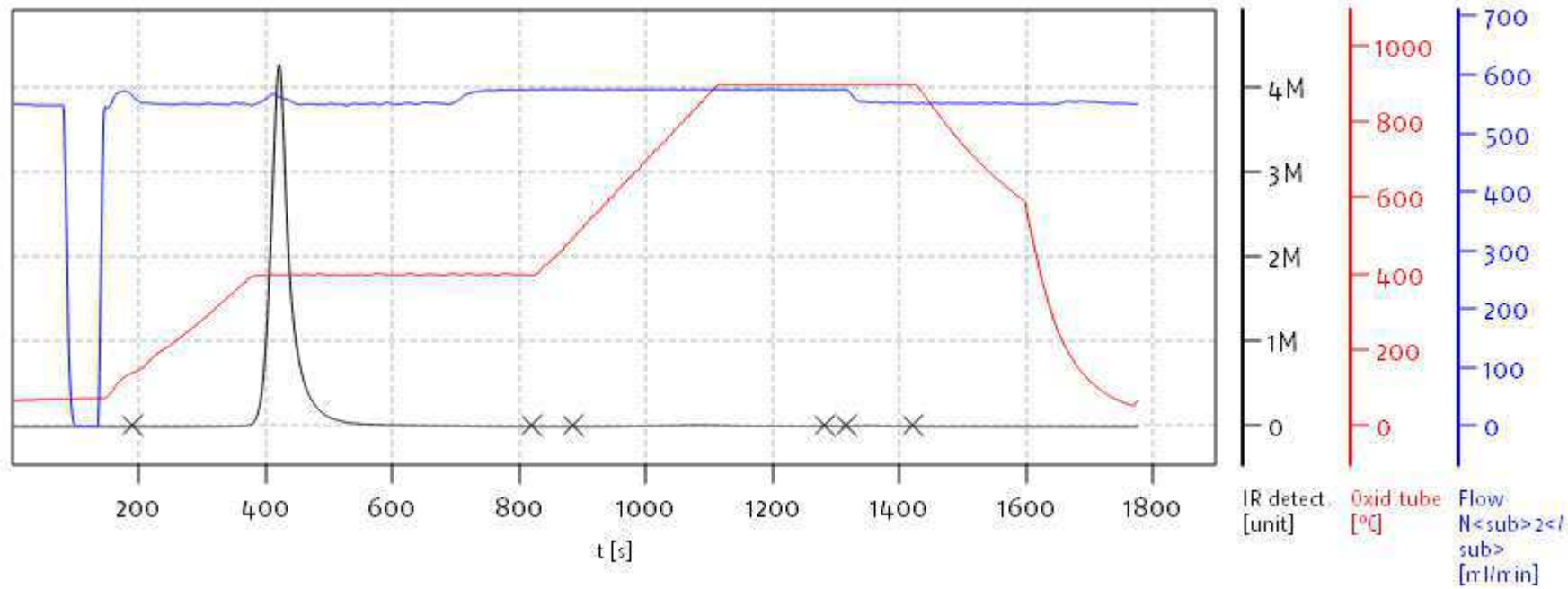
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SLF0283-CCV5	20.30		CARBON	6/21/2023 11:32 PM	bl	45.138	5 841 523	45.717	0.000	23 570	102 950	45.138	0.579	0.9939	1.0000



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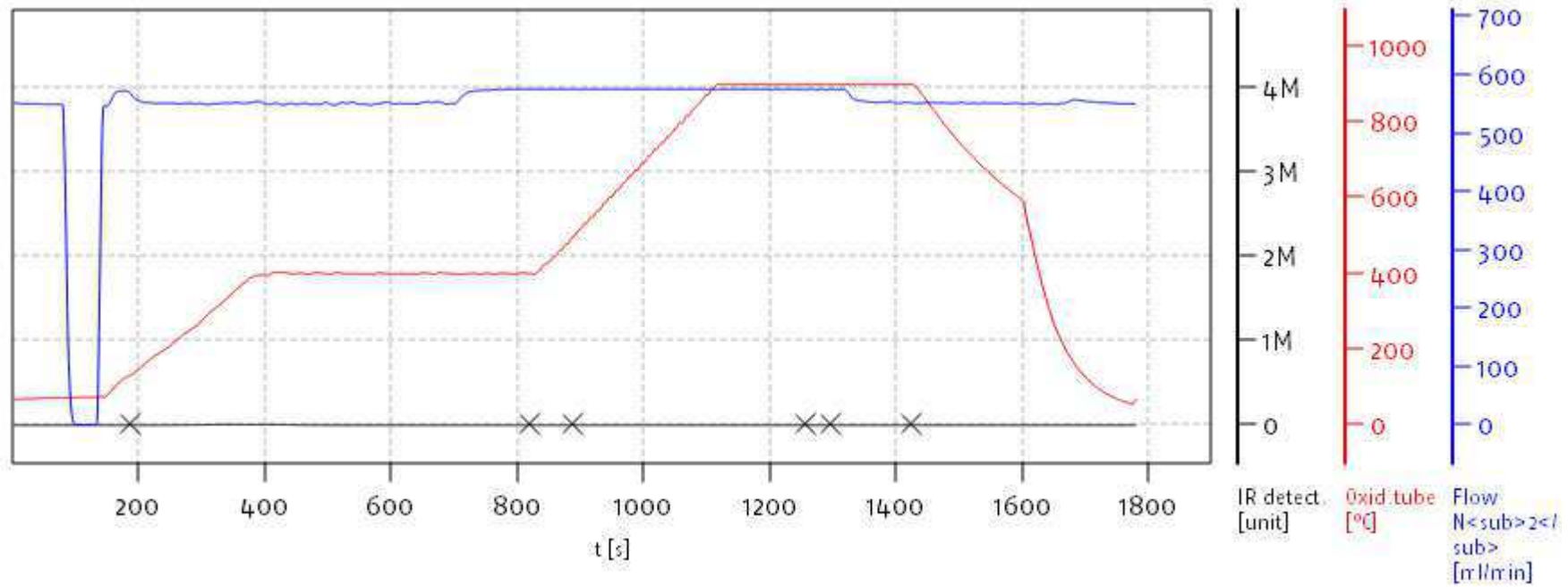
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SLF0283-CCB5	508.90		CARBON	6/22/2023 12:02 AM	bl,C3u,C2u	0.005	46 322	0.005	0.000	370	3 044	0.005	0.000	0.9939	1.0000



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Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

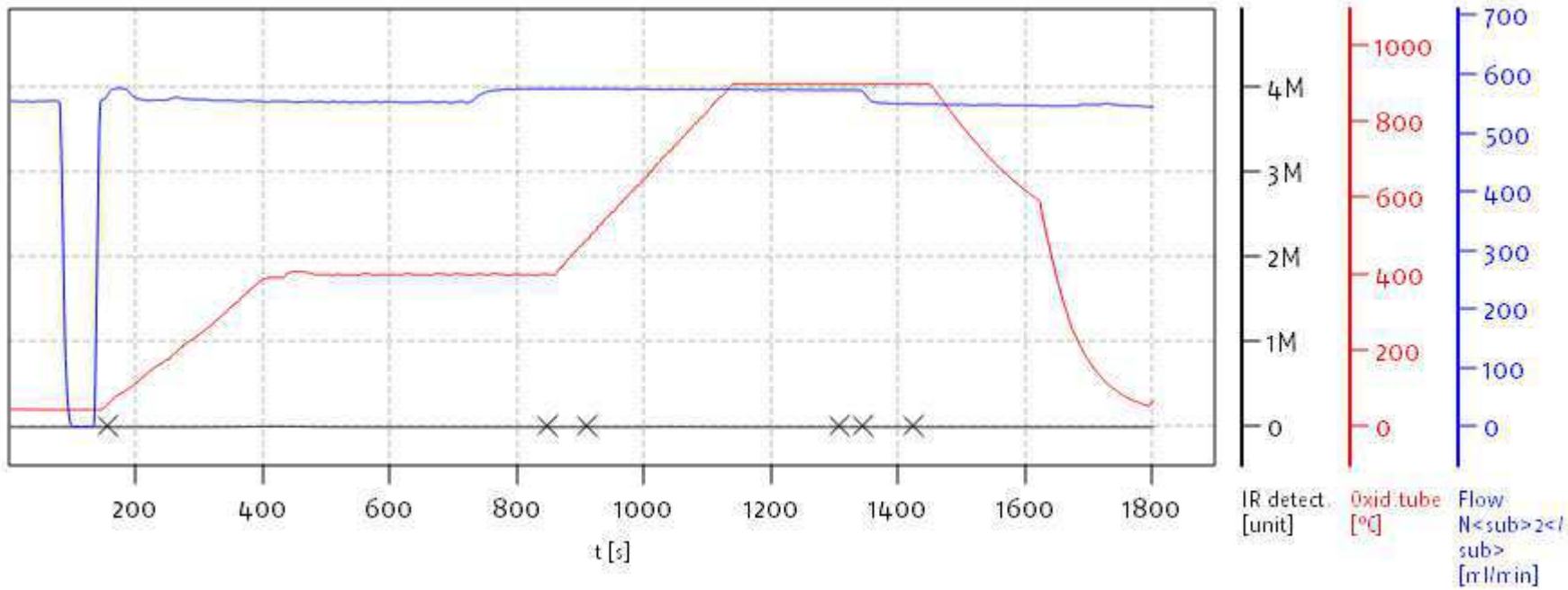
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLF0370	Instrument:	TOC Cube
		Calibration:	GE00052

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLF0370-ICV1	CubeData_06262023@1011-003	NA	06/24/23 15:01
Initial Cal Blank	SLF0370-ICB1	CubeData_06262023@1011-004	NA	06/24/23 15:31
Reference	BLF0522-SRM2	CubeData_06262023@1011-008	Solid	06/24/23 17:32
Calibration Check	SLF0370-CCV1	CubeData_06262023@1011-015	NA	06/24/23 21:02
Calibration Blank	SLF0370-CCB1	CubeData_06262023@1011-016	NA	06/24/23 21:32
Calibration Check	SLF0370-CCV2	CubeData_06262023@1011-027	NA	06/25/23 03:04
Calibration Blank	SLF0370-CCB2	CubeData_06262023@1011-028	NA	06/25/23 03:35
Calibration Check	SLF0370-CCV3	CubeData_06262023@1011-039	NA	06/25/23 09:07
Calibration Blank	SLF0370-CCB3	CubeData_06262023@1011-040	NA	06/25/23 09:37
Calibration Check	SLF0370-CCV4	CubeData_06262023@1011-050	NA	06/25/23 15:10
Calibration Blank	SLF0370-CCB4	CubeData_06262023@1011-051	NA	06/25/23 15:40
Calibration Check	SLF0370-CCV5	CubeData_06262023@1011-062	NA	06/25/23 21:12
Calibration Blank	SLF0370-CCB5	CubeData_06262023@1011-063	NA	06/25/23 21:43
Calibration Check	SLF0370-CCV6	CubeData_06262023@1011-074	NA	06/26/23 03:15
Calibration Blank	SLF0370-CCB6	CubeData_06262023@1011-075	NA	06/26/23 03:45
Calibration Check	SLF0370-CCV7	CubeData_06262023@1011-079	NA	06/26/23 05:46
Calibration Blank	SLF0370-CCB7	CubeData_06262023@1011-080	NA	06/26/23 06:16

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	6/ 24/2023 1:31 PM	bl	0.000	40 265	0.000	0.000	981	12 884	0.000	0.000	1.0000	1.0000



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Date: Mon Jun 26 10:08:08 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

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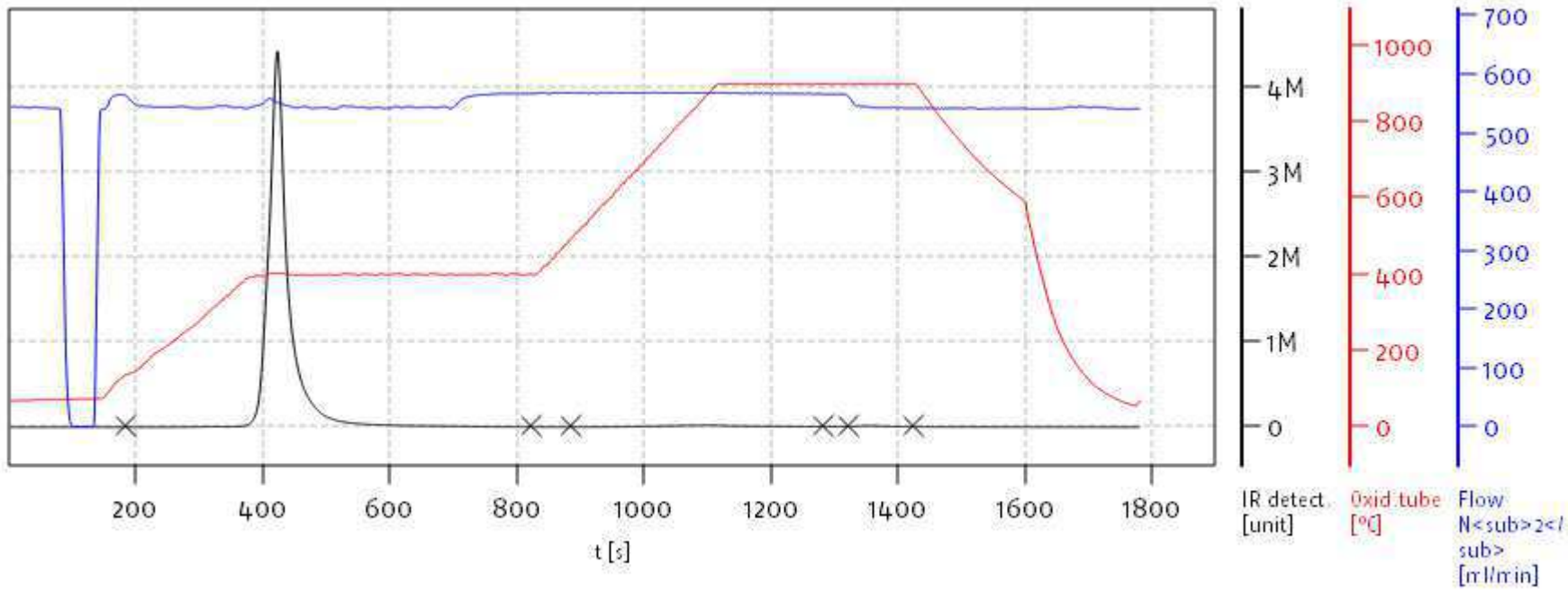
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	20.30		CARBON	6/24/2023 2:01 PM	bl	44.491	5 881 680	45.372	0.045	34 642	141 680	44.446	0.881	0.9719	1.0000



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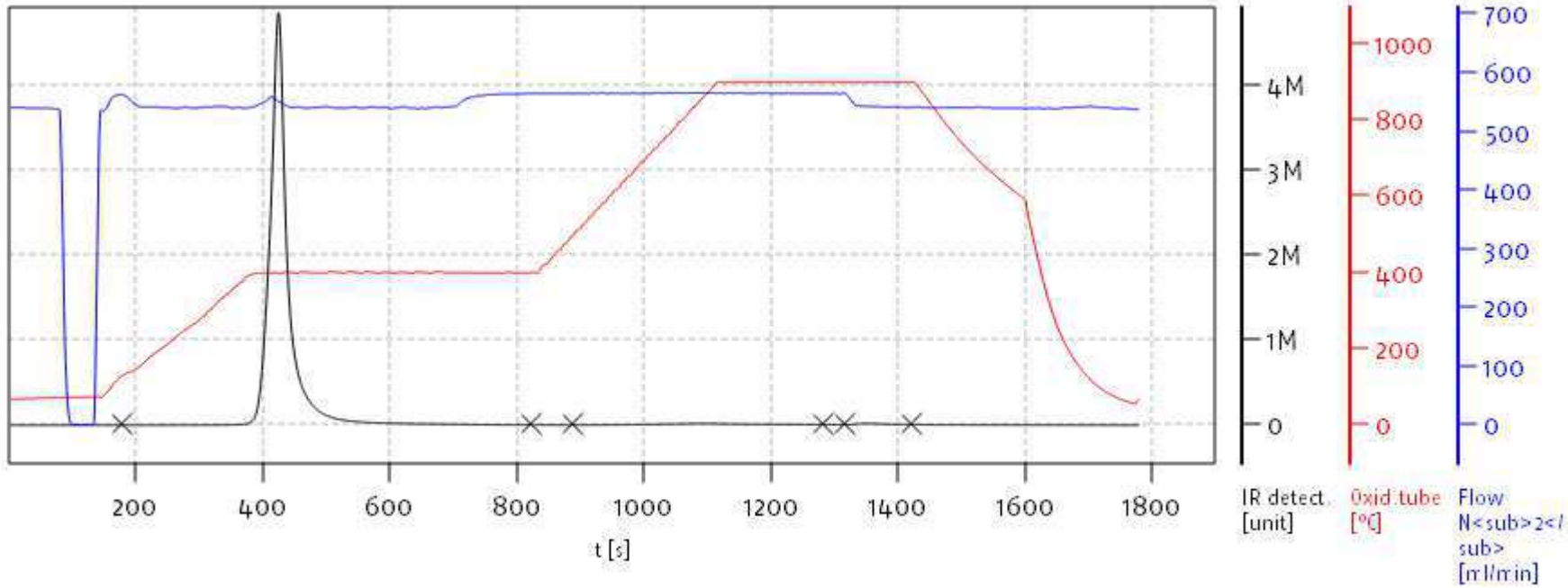
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	21.30		CARBON	6/24/2023 2:31 PM	bl	44.566	5 922 210	45.384	0.120	44 968	138 724	44.446	0.818	1.0128	1.0000



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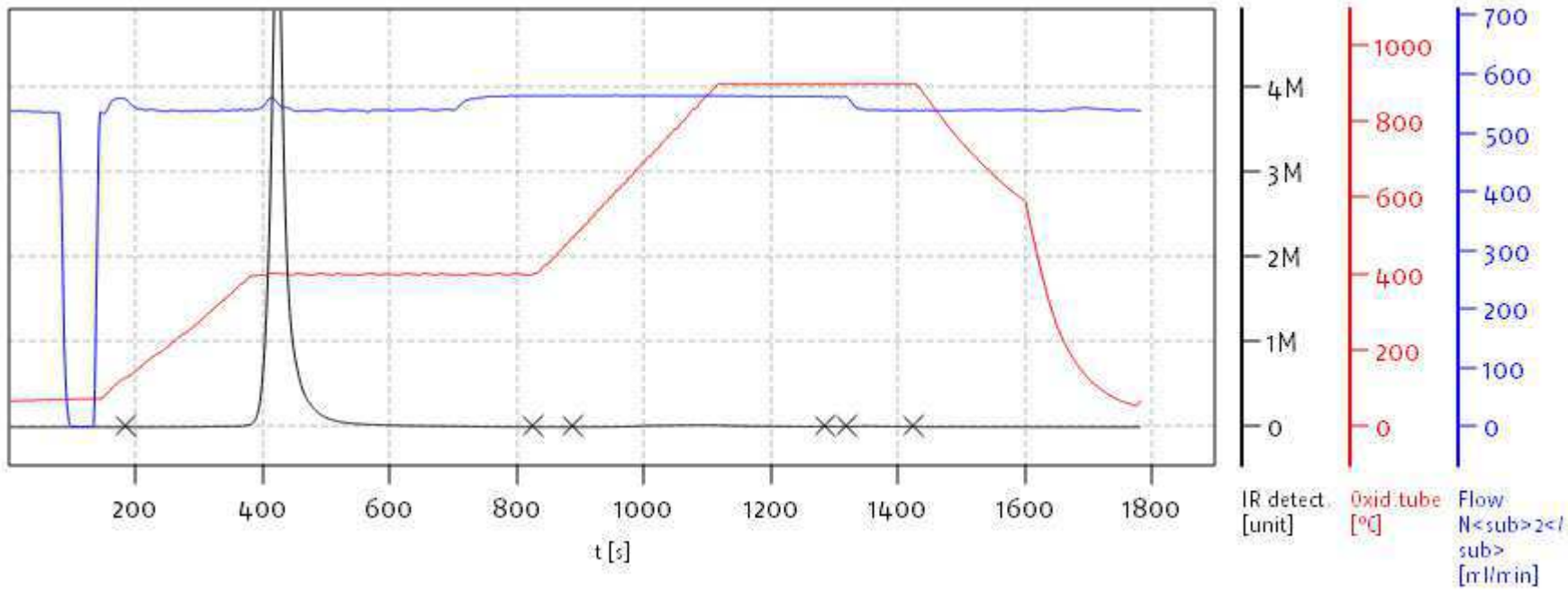
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLF0370-ICV1	22.10		CARBON	6/24/2023 3:01 PM	bl	46.641	6 577 696	47.635	0.000	25 743	167 363	46.641	0.994	0.9923	1.0000



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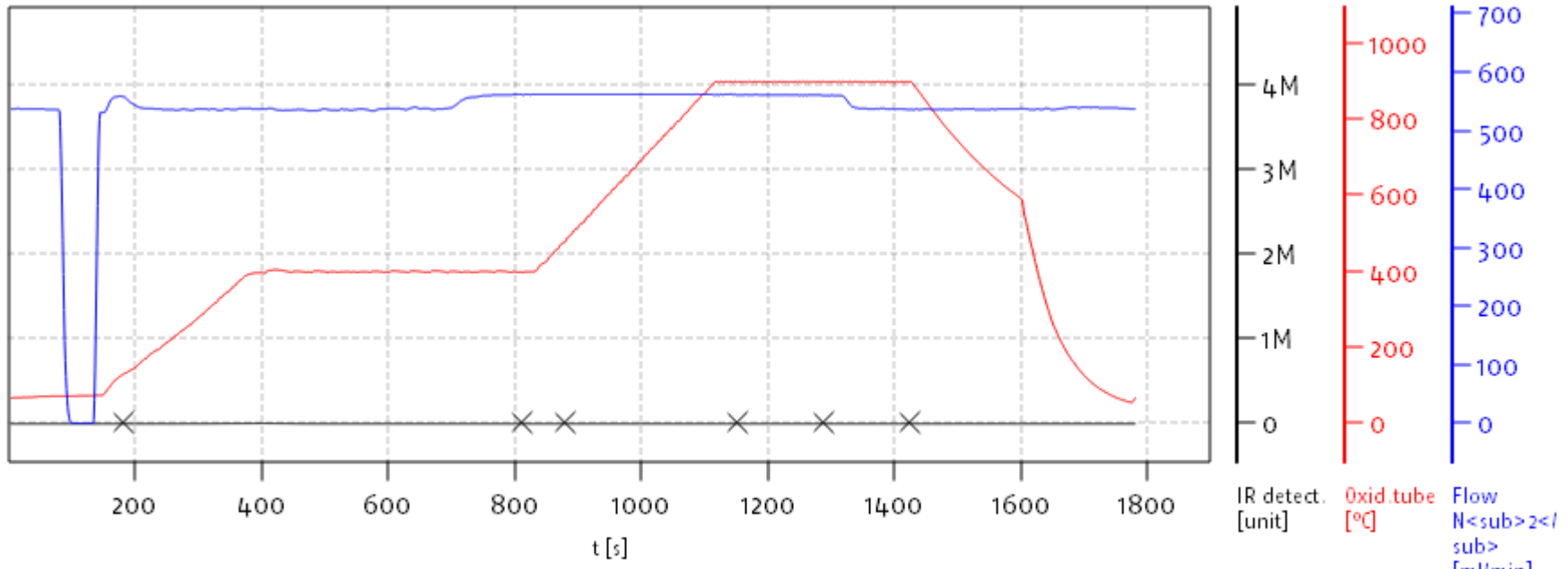
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLF0370-ICB1	514.50		CARBON	6/24/2023 3:31 PM	bl,C1u,C3u,C2u	0.000	20 579	0.000	0.000	633	353	0.000	0.000	0.9923	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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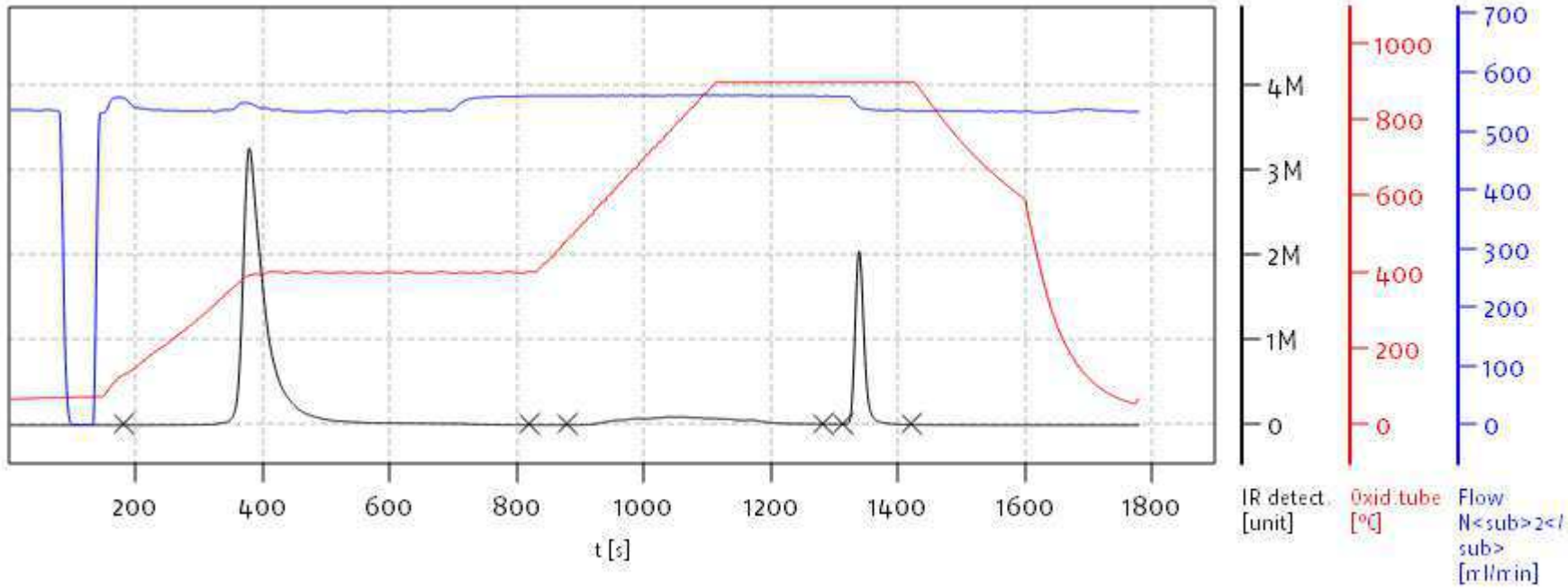
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	BLF0414-SRM2	314.40	314.4	CARBON	6/24/2023 4:01 PM	bl	3.191	5 130 338	3.570	0.637	1 292 170	780 507	2.554	0.379	0.9923	1.0000



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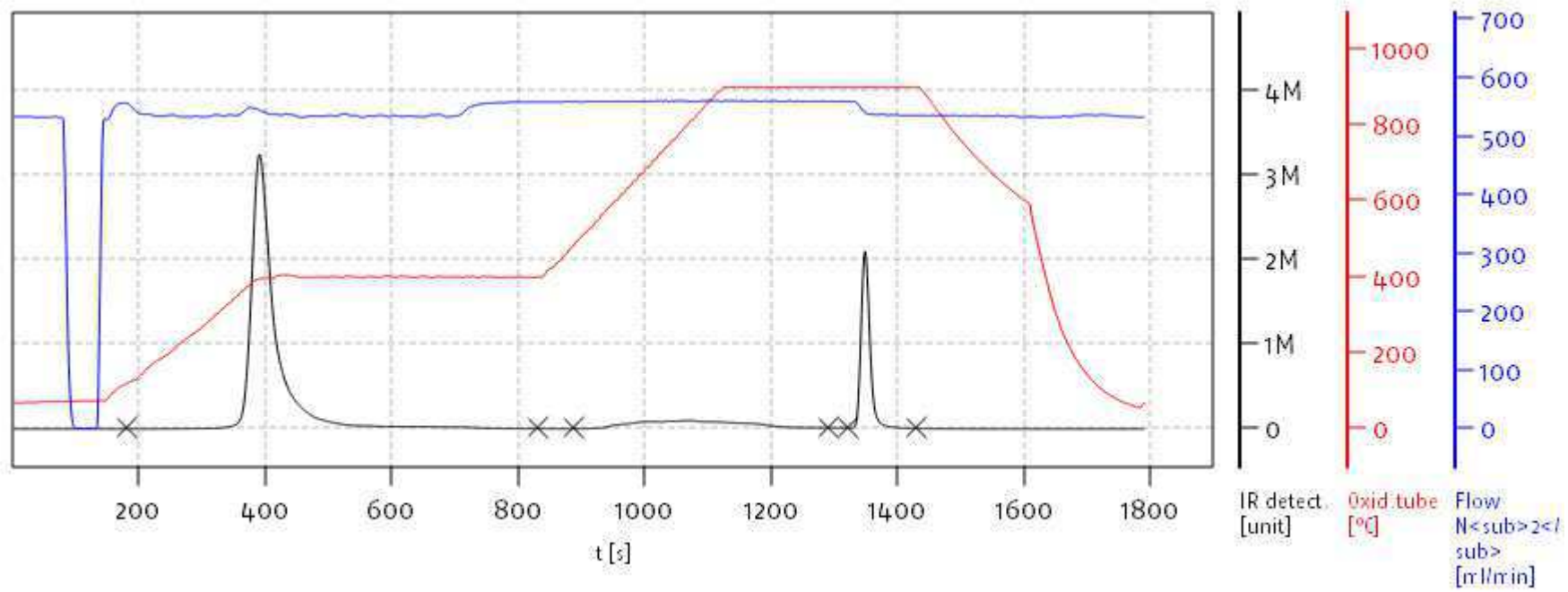
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BLF0415-SRM2	322.90	322.9	CARBON	6/24/2023 4:32 PM	bl	3.153	5 216 918	3.531	0.624	1 299 955	798 724	2.529	0.378	0.9923	1.0000



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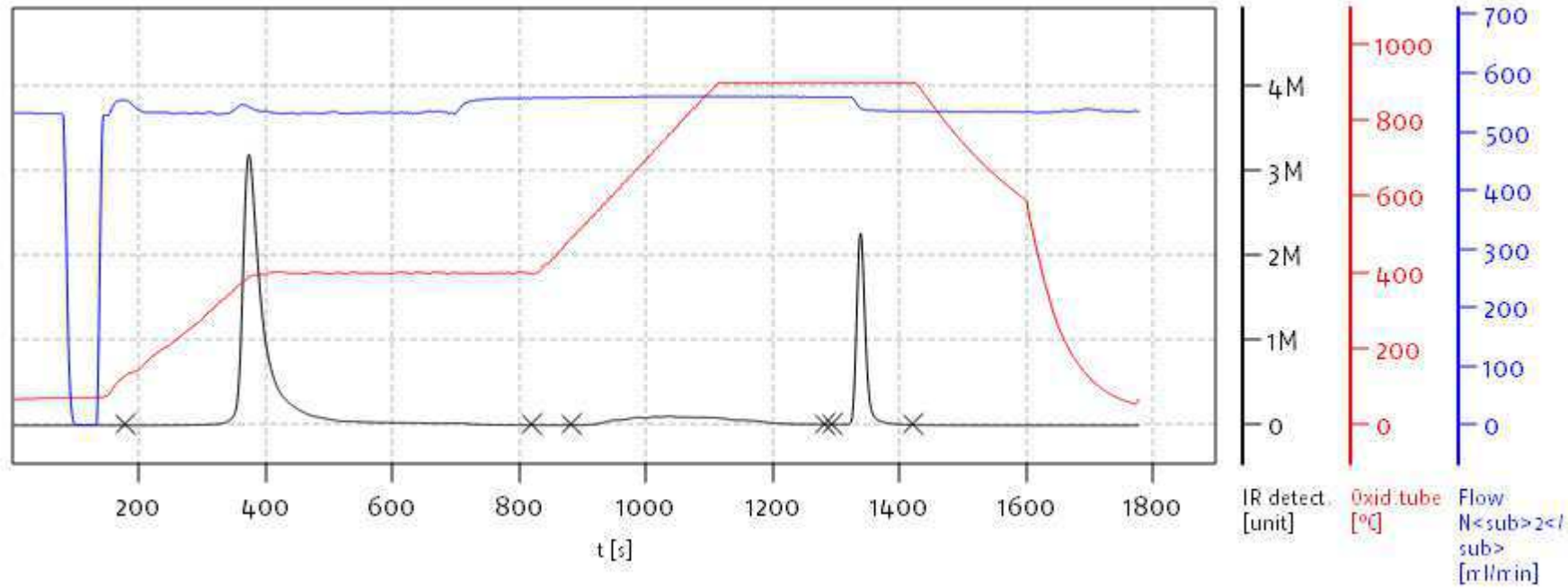
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BLF0416-SRM2	308.90	308.9	CARBON	6/24/2023 5:02 PM	bl	3.106	4 740 310	3.530	0.705	1 401 922	855 412	2.401	0.424	0.9923	1.0000



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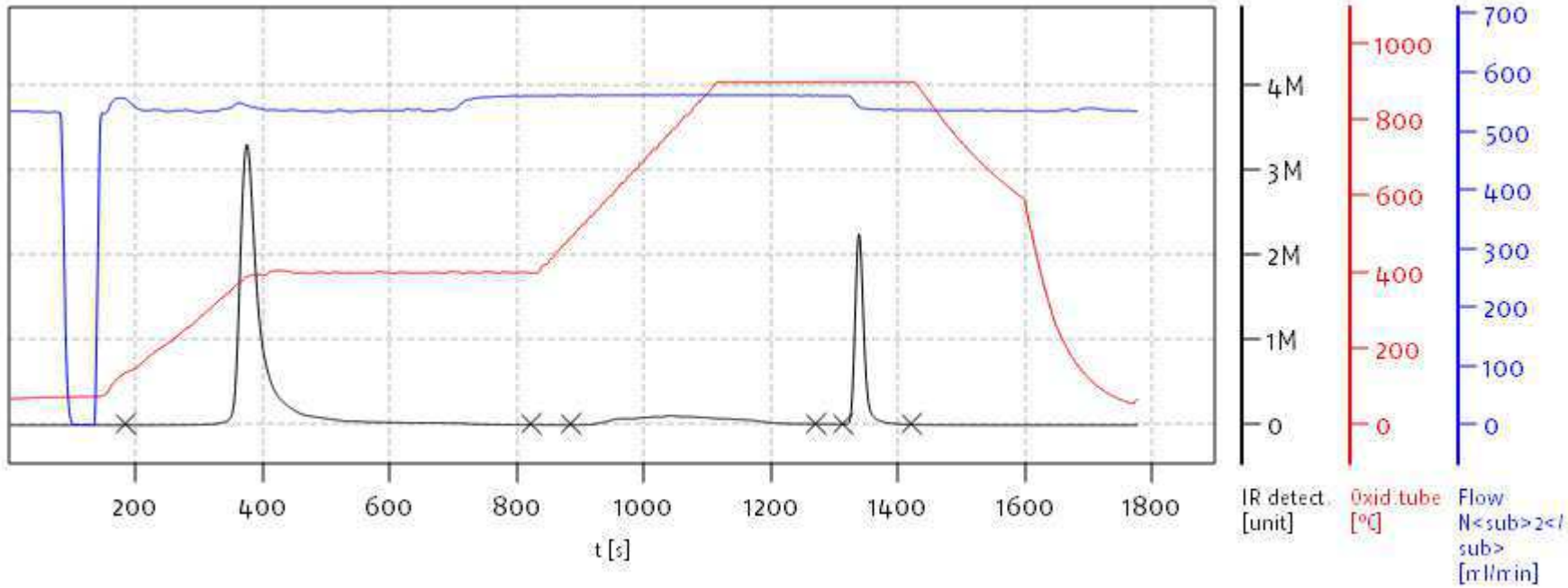
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	BLF0522-SRM2	307.70	307.7	CARBON	6/24/2023 5:32 PM	bl	3.116	4 744 635	3.534	0.703	1 393 585	840 283	2.412	0.418	0.9923	1.0000



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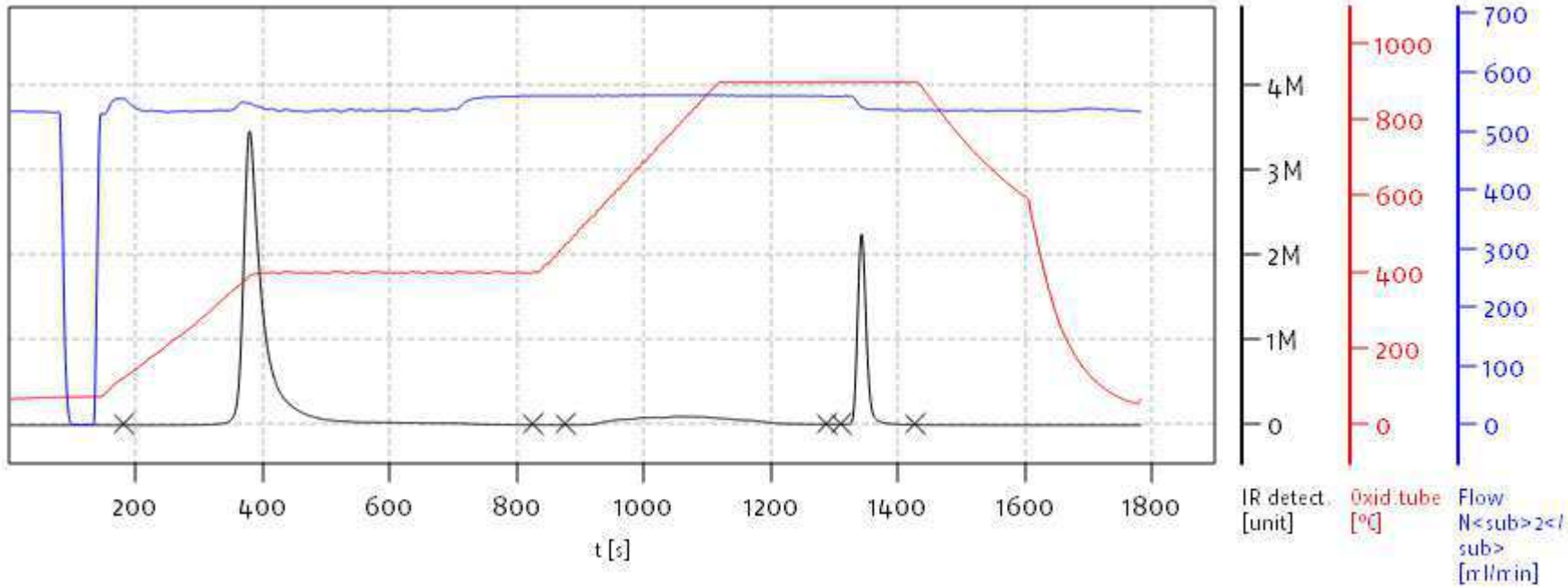
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	BLF0523-SRM2	315.60	315.6	CARBON	6/24/2023 6:02 PM	bl	3.062	4 823 523	3.457	0.671	1 364 122	814 759	2.391	0.395	0.9923	1.0000



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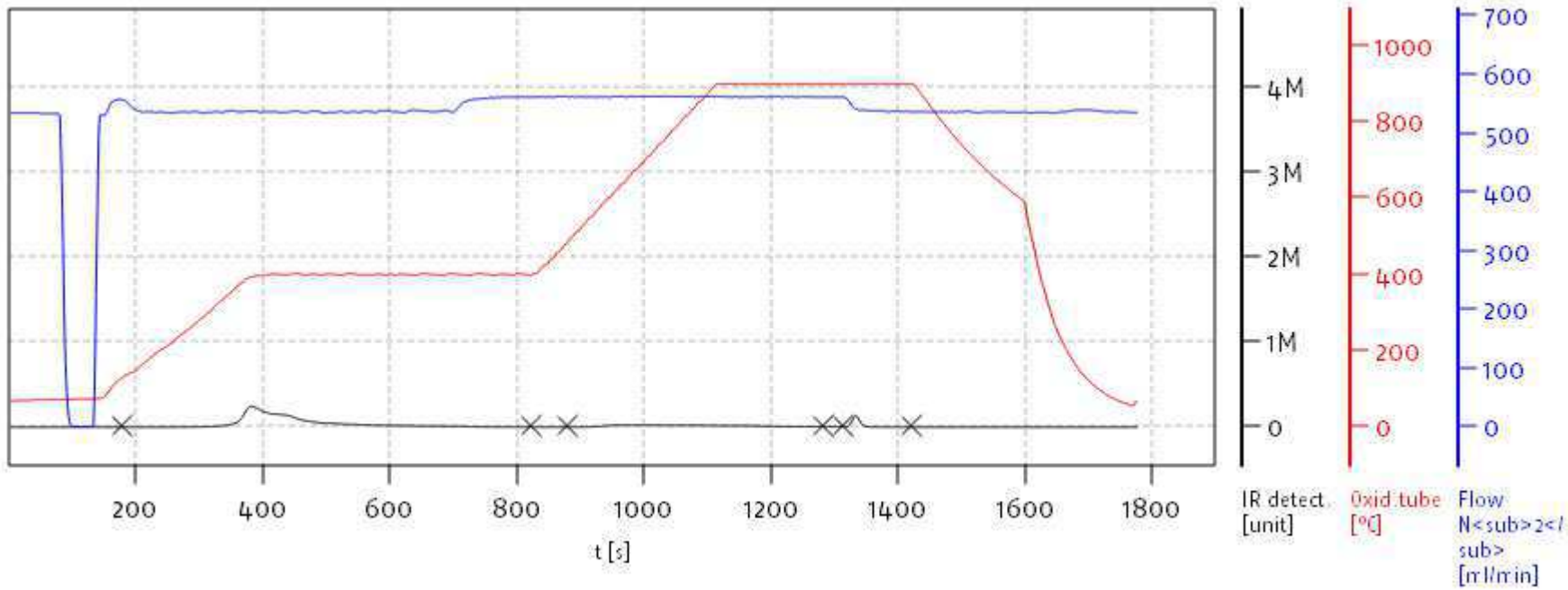
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	23E0009-08	156.00		CARBON	6/24/2023 6:32 PM	bl	0.935	910 734	1.126	0.045	73 180	216 697	0.890	0.191	0.9923	1.0000



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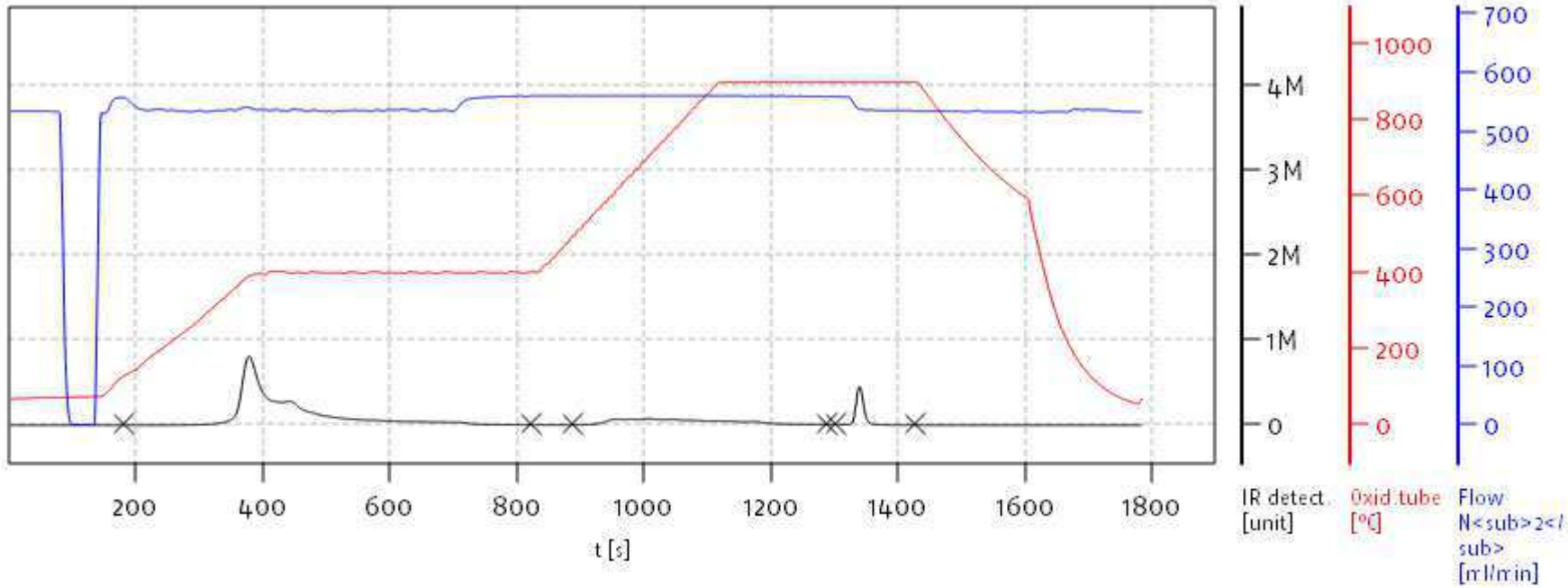
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	23E0219-02	334.20		CARBON	6/24/2023 7:02 PM	bl	1.148	2 245 098	1.417	0.104	248 686	595 064	1.044	0.269	0.9923	1.0000



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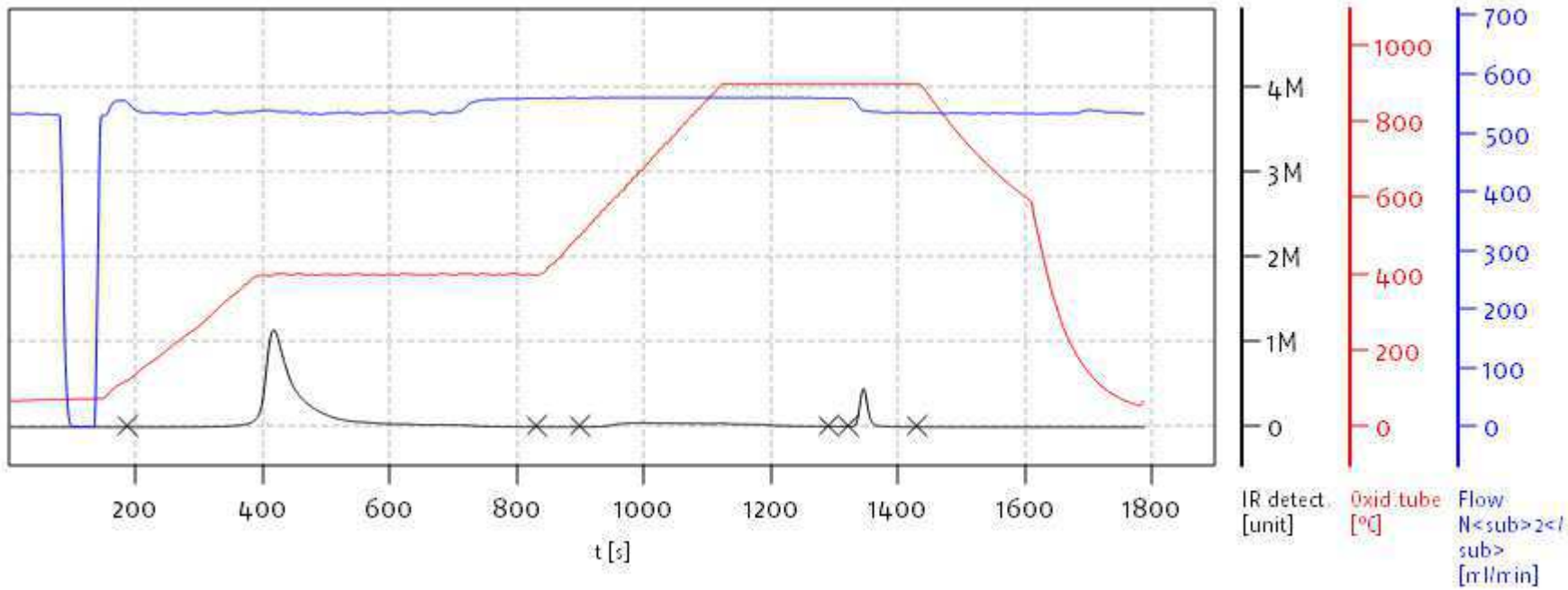
EXCELLENCE IN ELEMENTS

Document: 062423 CDE from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	23E0219-03	593.60		CARBON	6/24/2023 7:32 PM	bl	0.732	2 557 434	0.838	0.061	258 950	427 092	0.670	0.106	0.9923	1.0000



Name:

Access: soliTOC superuser

Date: Mon Jun 26 10:08:08 2023

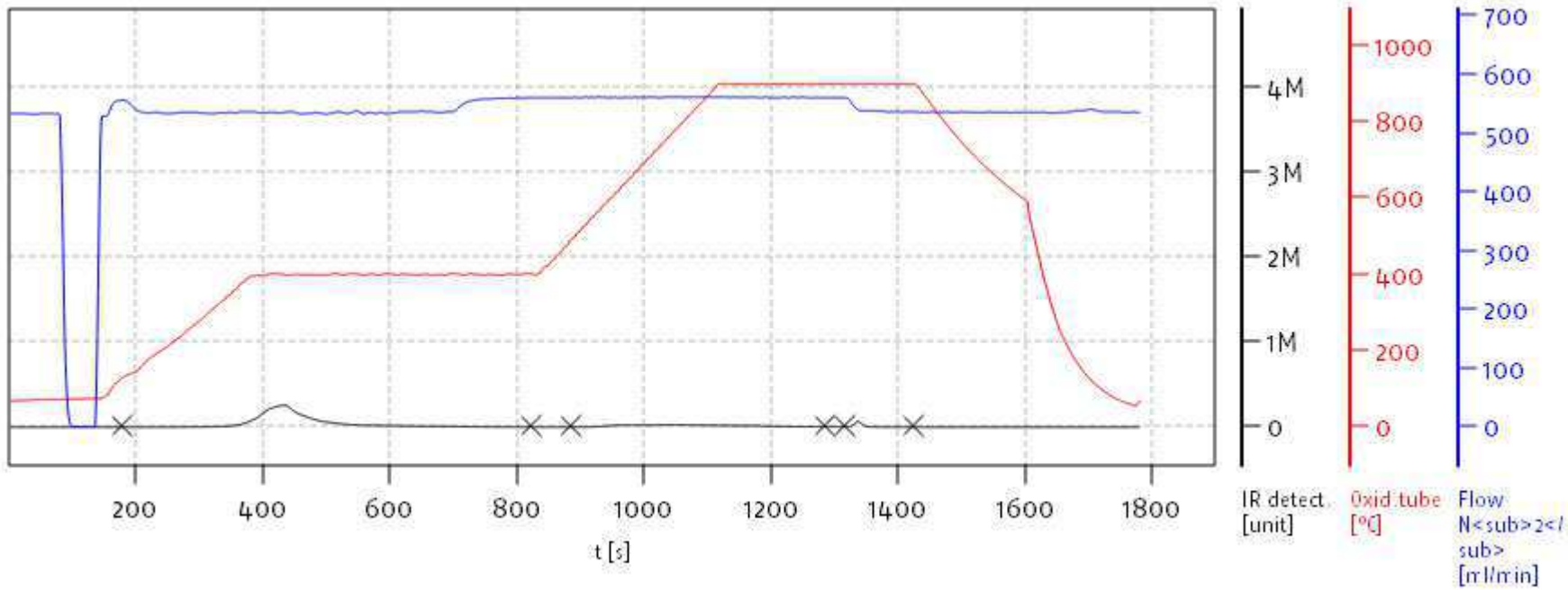
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	23E0219-04	531.80		CARBON	6/24/2023 8:02 PM	bl	0.272	936 876	0.332	0.003	39 745	229 018	0.269	0.060	0.9923	1.0000



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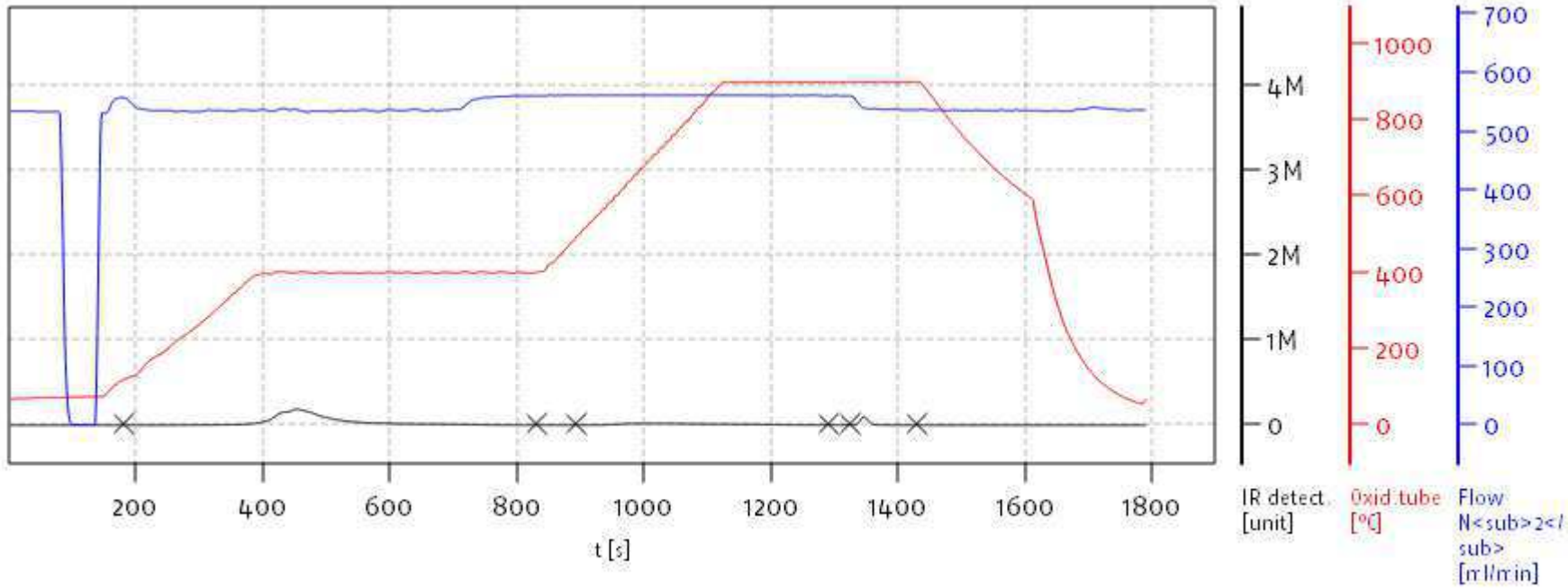
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	23E0219-05	641.90		CARBON	6/24/2023 8:32 PM	bl	0.186	757 604	0.216	0.007	58 418	151 633	0.179	0.030	0.9923	1.0000



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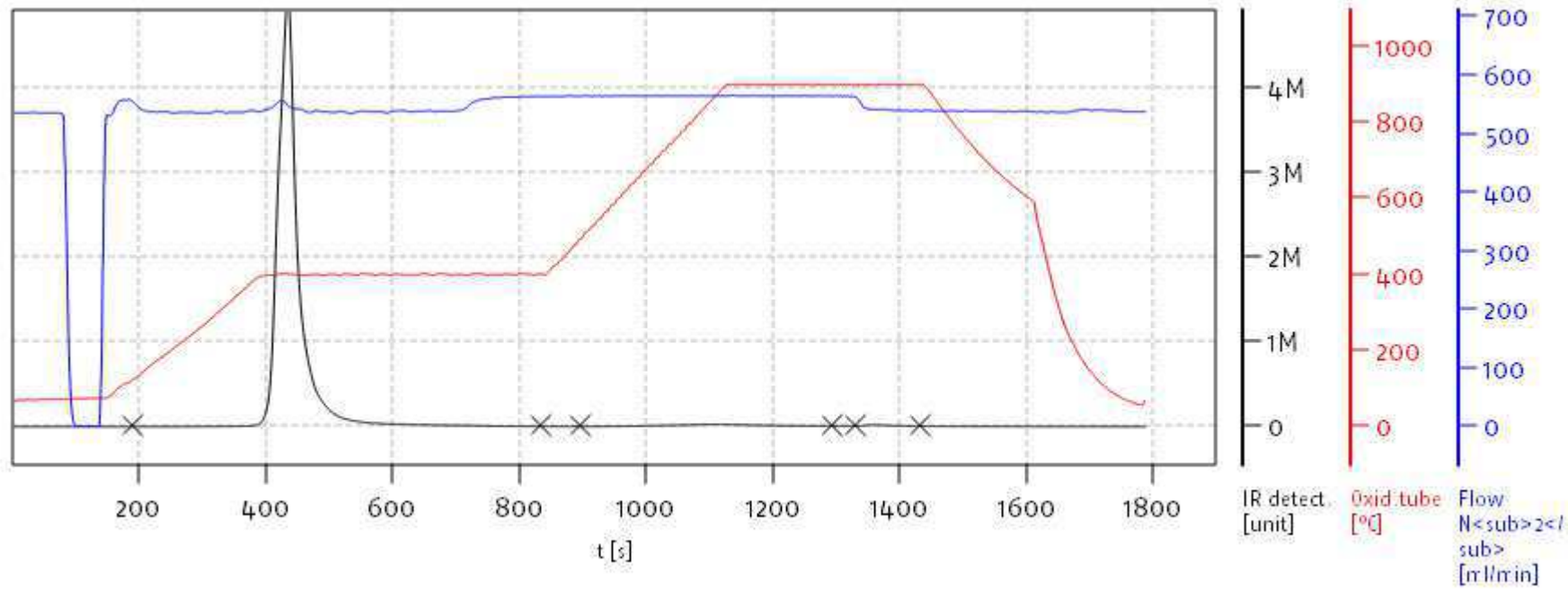
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLF0370-CCV1	24.50		CARBON	6/24/2023 9:02 PM	bl	45.230	7 053 157	46.290	0.104	44 903	192 585	45.127	1.060	0.9923	1.0000



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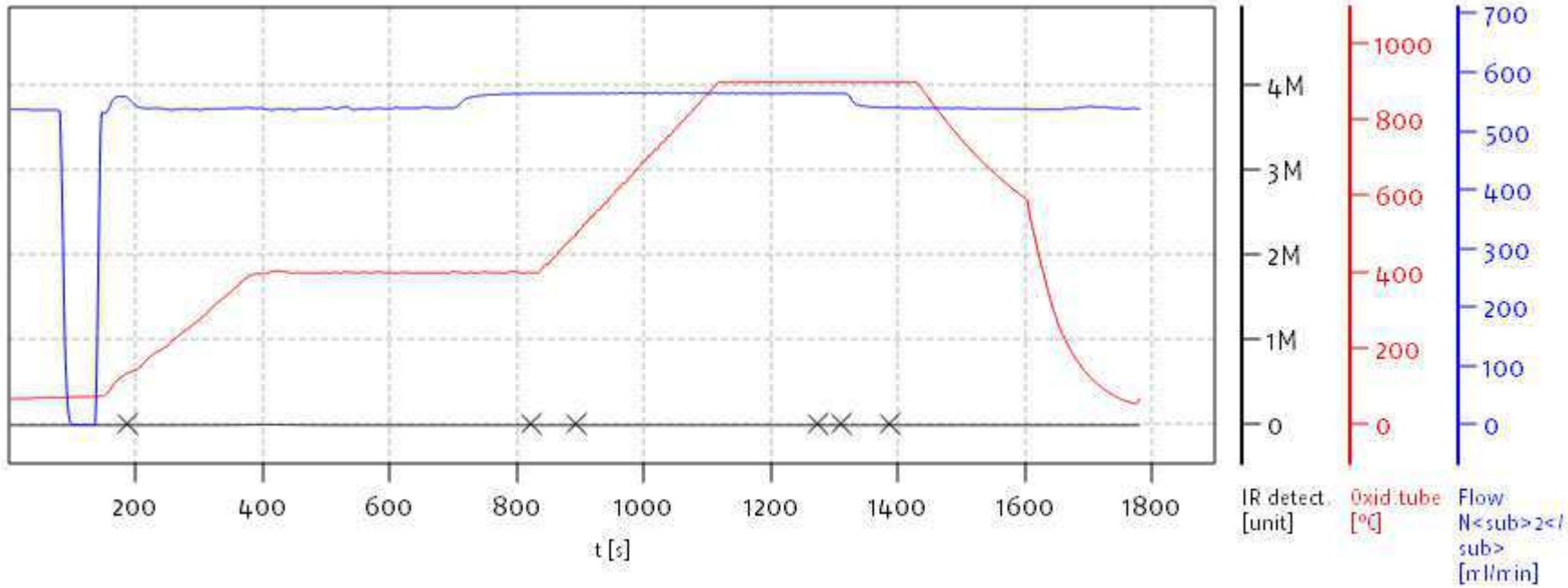
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLF0370-CCB1	518.70		CARBON	6/24/2023 9:32 PM	bl,C3u,C2u	0.000	22 269	0.000	0.000	666	6 550	0.000	0.000	0.9923	1.0000



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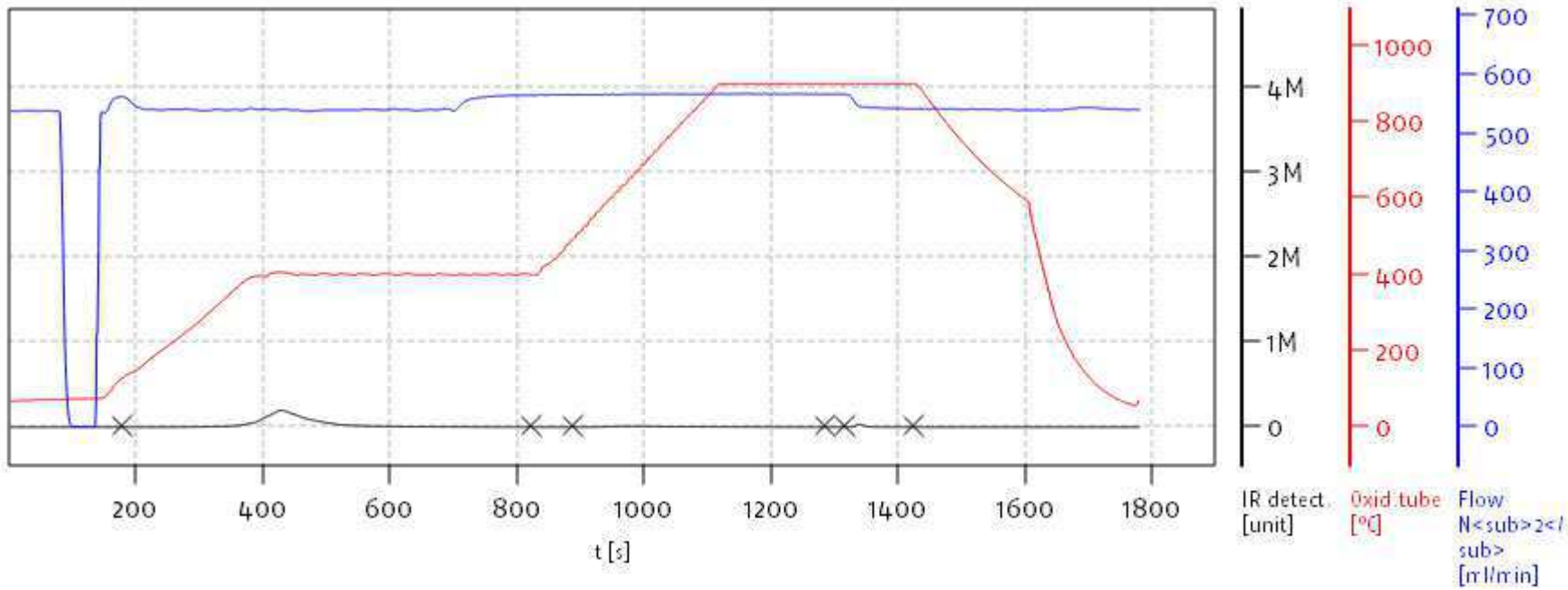
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	23E0219-06	581.90		CARBON	6/24/2023 10:03 PM	bl,C2u	0.176	677 783	0.184	0.000	19 963	61 066	0.176	0.009	0.9923	1.0000



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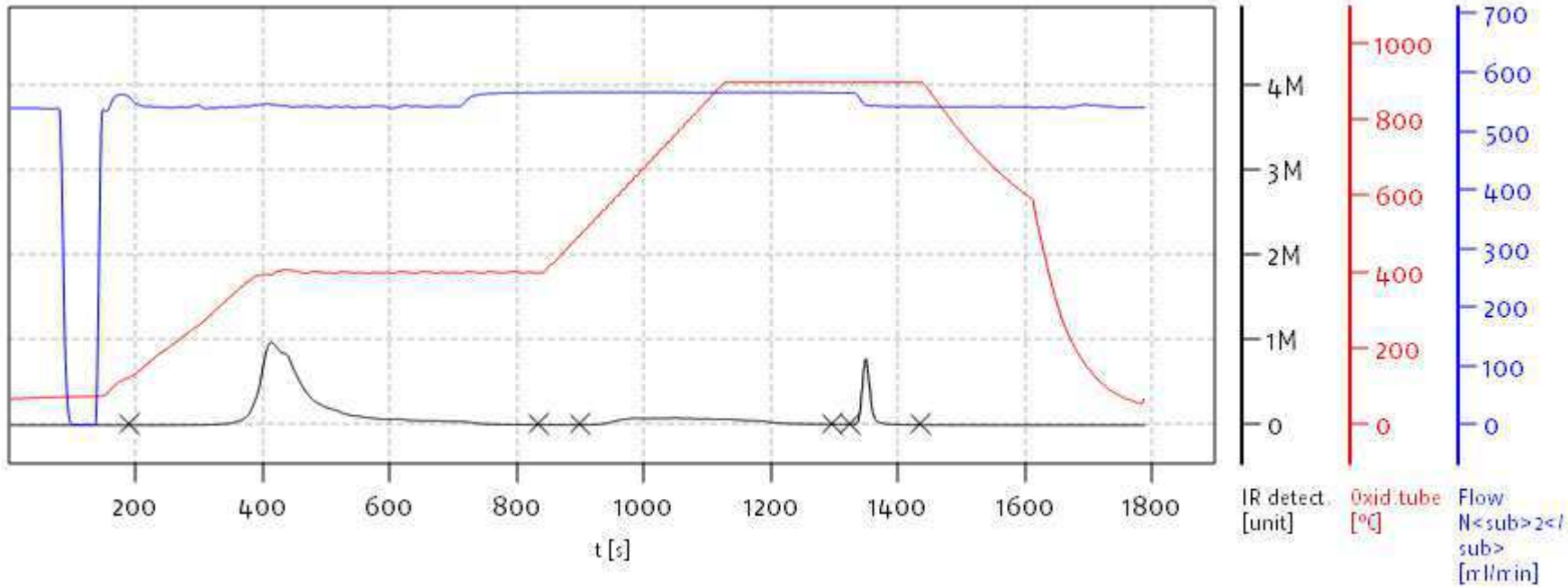
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	23E0219-07	603.70		CARBON	6/24/2023 10:33 PM	bl	0.977	3 366 681	1.163	0.107	436 874	735 009	0.870	0.186	0.9923	1.0000



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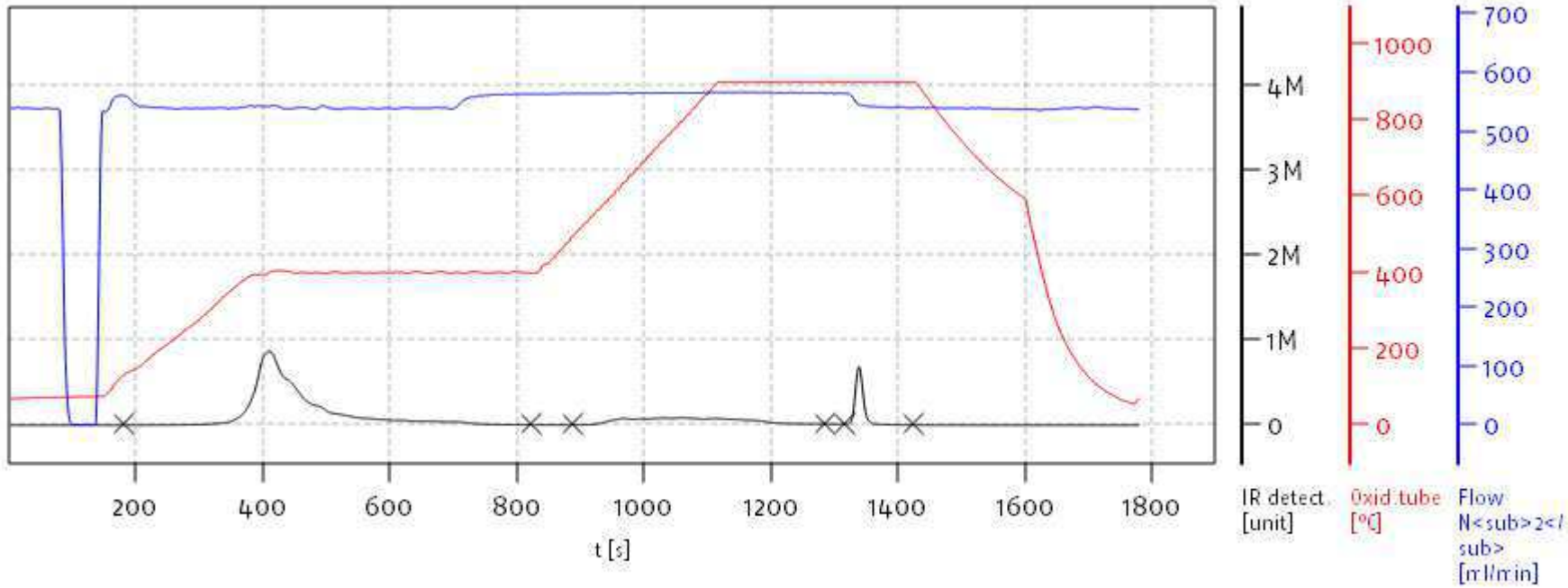
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	23E0219-08	611.20		CARBON	6/24/2023 11:03 PM	bl	0.851	2 973 726	1.042	0.093	386 875	764 868	0.758	0.191	0.9923	1.0000



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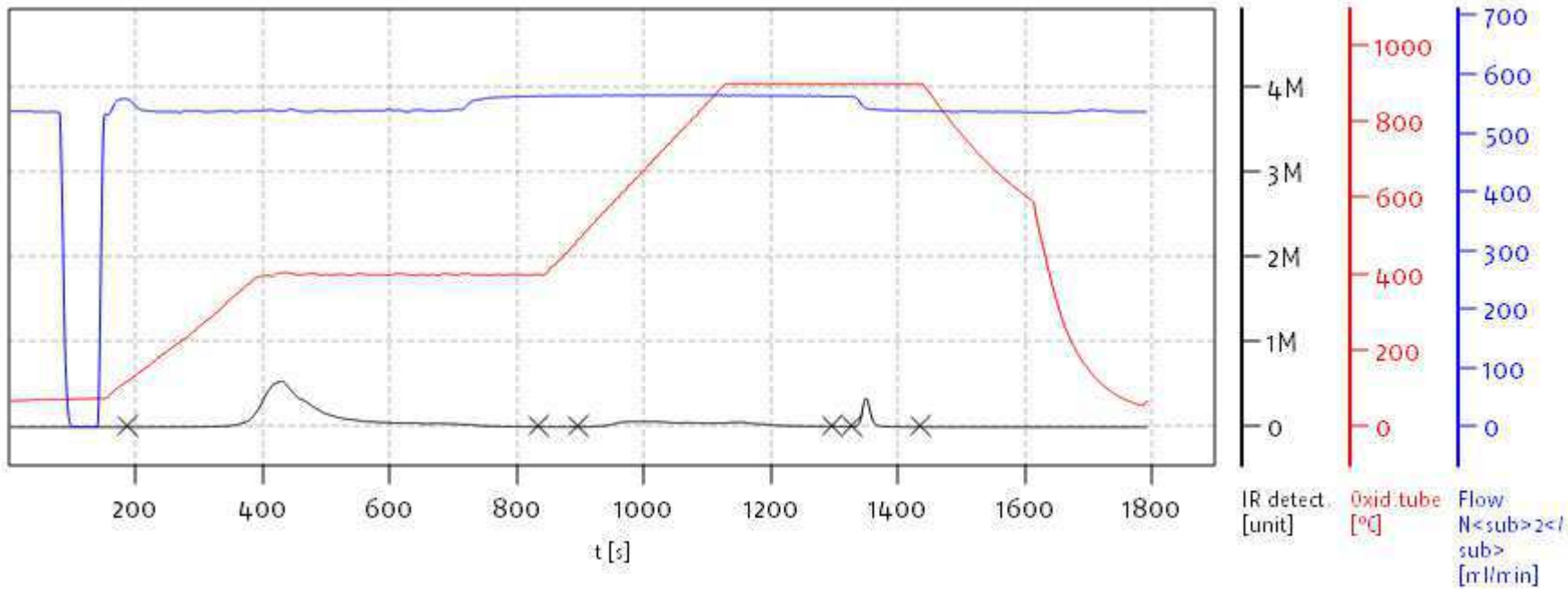
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	23E0219-09	569.00		CARBON	6/24/2023 11:33 PM	bl	0.629	2 132 241	0.773	0.047	197 254	546 867	0.582	0.144	0.9923	1.0000



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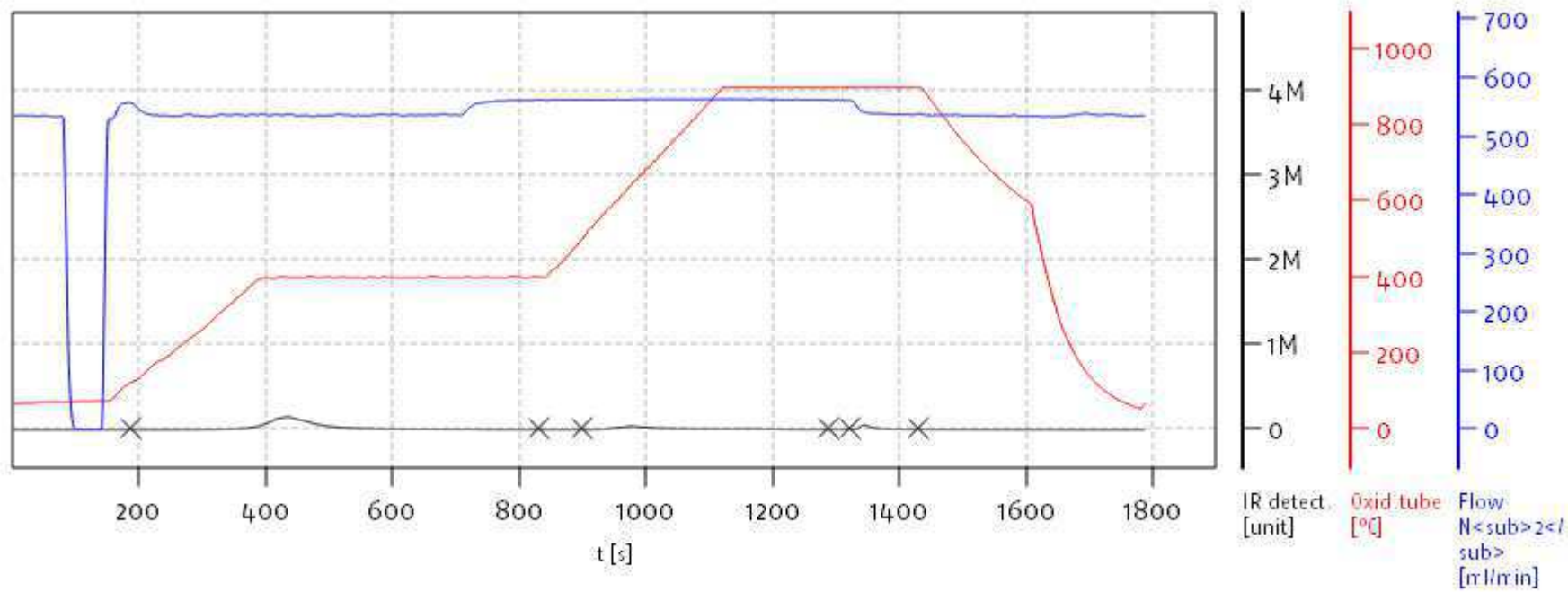
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	23E0219-10	570.50		CARBON	6/25/2023 12:03 AM	bl	0.146	531 744	0.181	0.007	53 428	157 912	0.139	0.036	0.9923	1.0000



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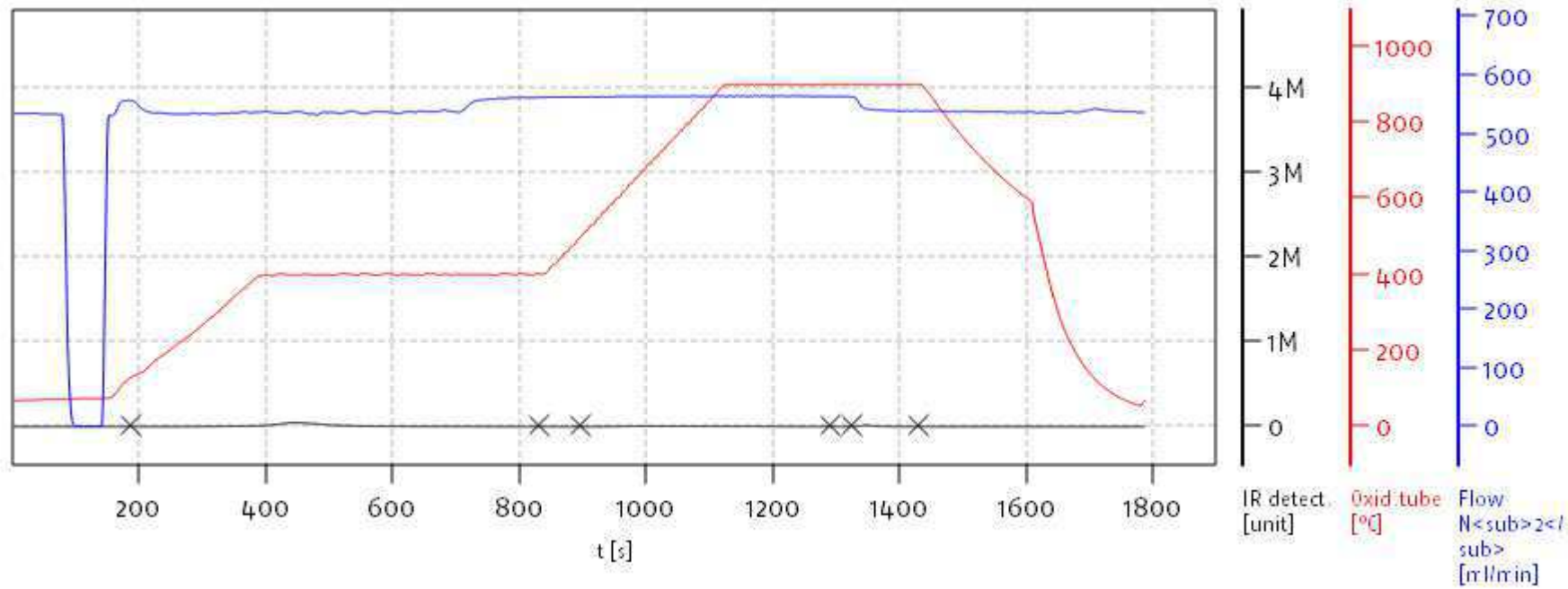
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	23E0219-11	544.70		CARBON	6/25/2023 12:33 AM	bl,C2u	0.049	197 375	0.054	0.000	15 626	48 784	0.049	0.006	0.9923	1.0000



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Soli TOC Cube, Carbon
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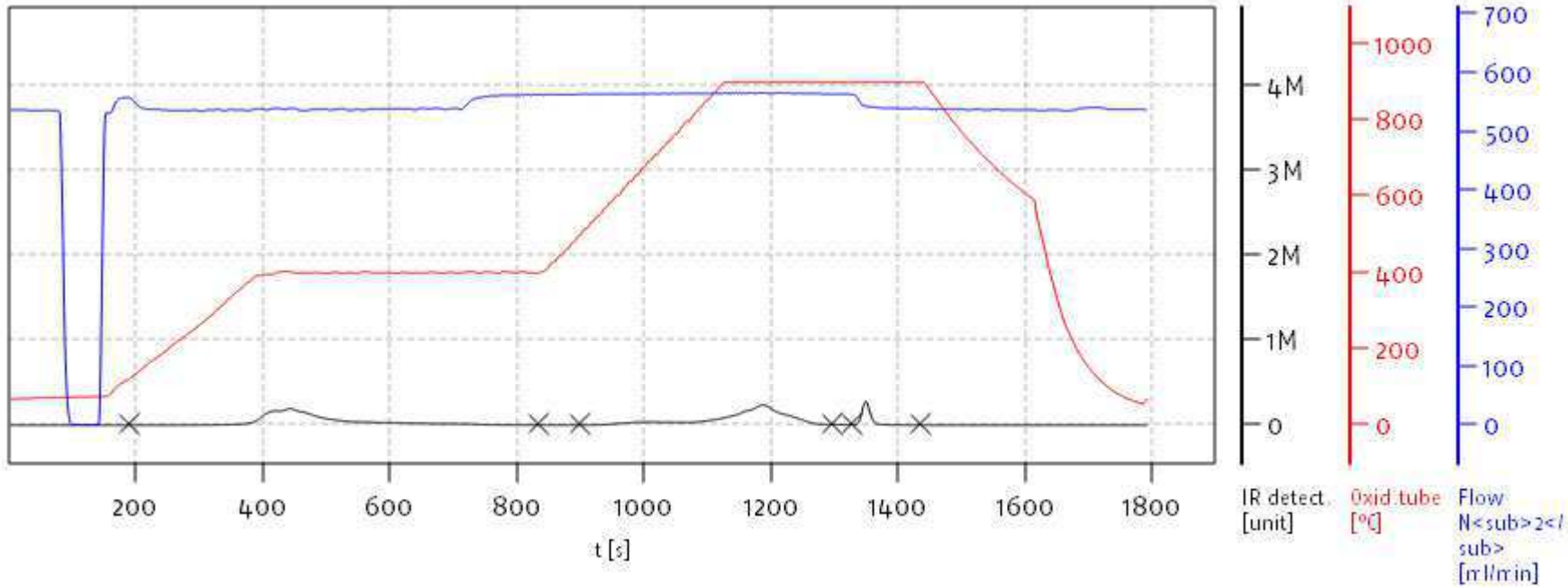
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	23E0219-12	572.90		CARBON	6/25/2023 1:04 AM	bl	0.273	885 667	0.537	0.037	163 573	984 114	0.235	0.264	0.9923	1.0000



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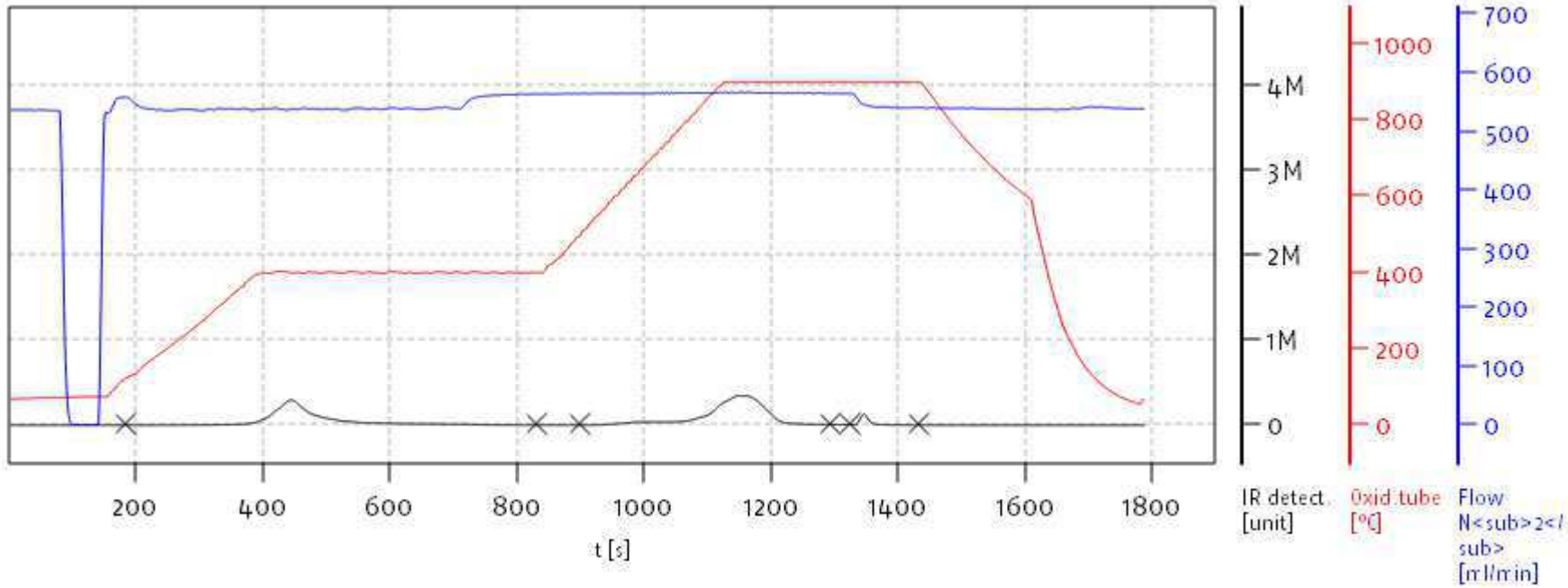
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	23E0219-13	530.70		CARBON	6/25/2023 1:34 AM	bl	0.284	932 086	0.675	0.016	82 892	1 335 404	0.268	0.390	0.9923	1.0000



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Balance: BAL3
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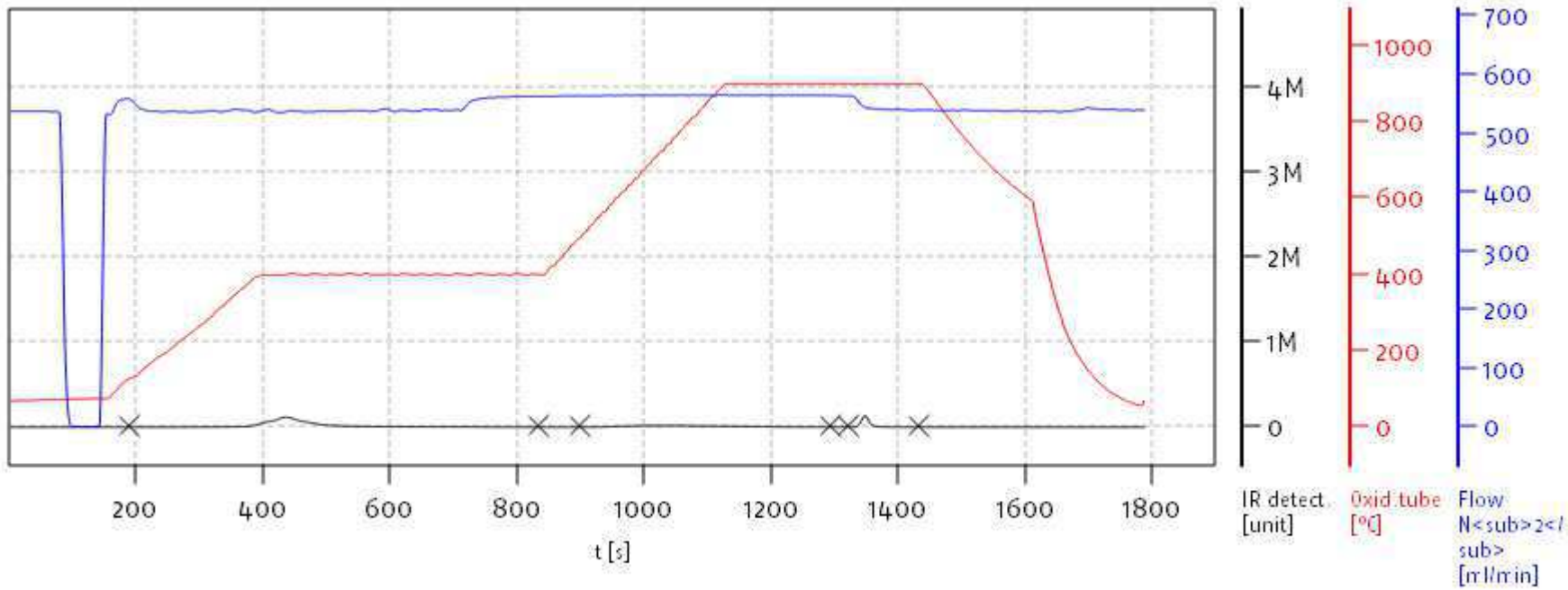
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	23E0241-01	184.60		CARBON	6/25/2023 2:04 AM	bl	0.326	365 238	0.407	0.039	74 515	122 542	0.287	0.080	0.9923	1.0000



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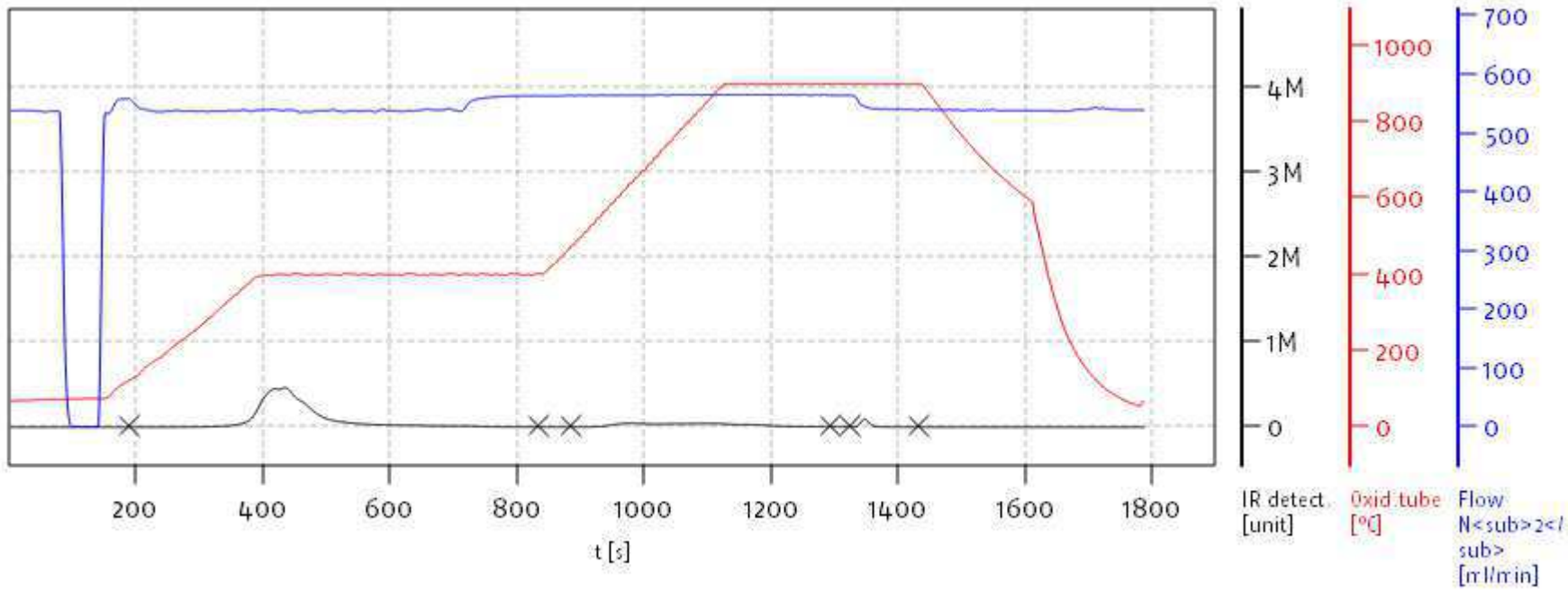
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	23E0295-01	544.80		CARBON	6/25/2023 2:34 AM	bl	0.490	1 696 247	0.593	0.008	57 702	383 620	0.482	0.103	0.9923	1.0000



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Balance: BAL3
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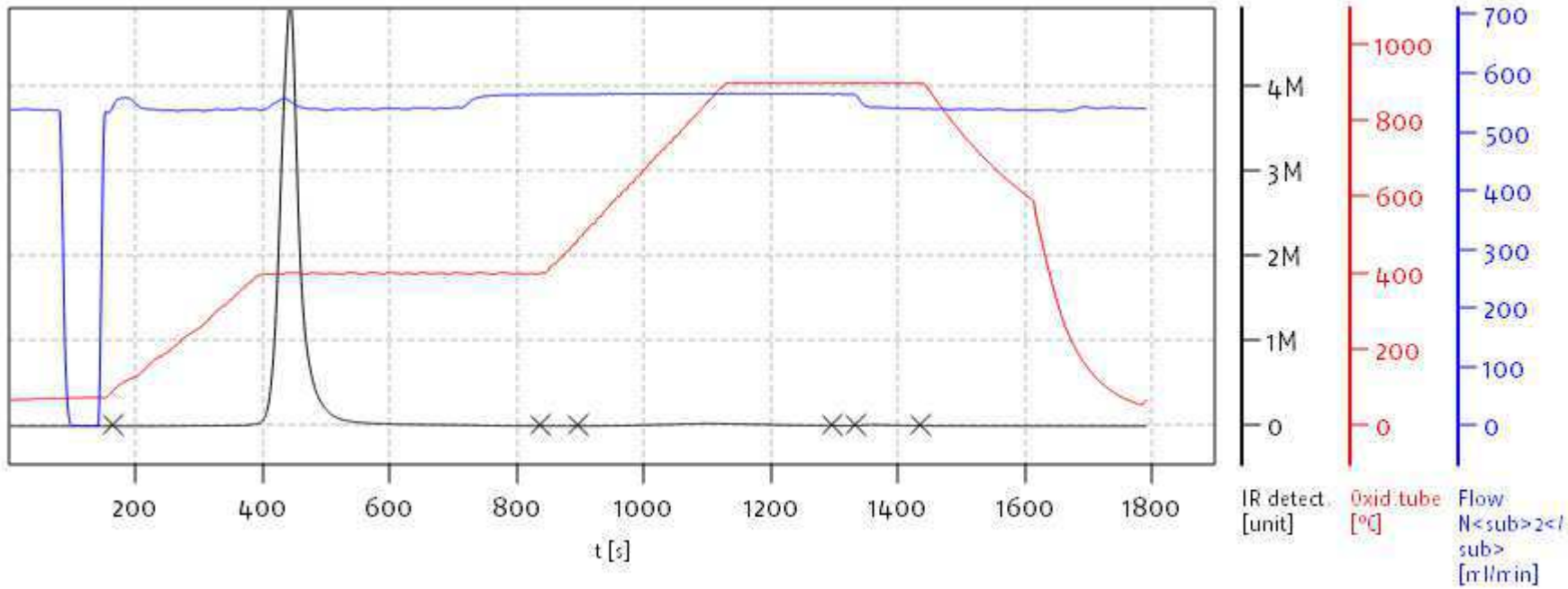
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SLF0370-CCV2	24.60		CARBON	6/25/2023 3:04 AM	bl	43.618	6 840 180	44.909	0.038	34 684	229 149	43.580	1.291	0.9923	1.0000



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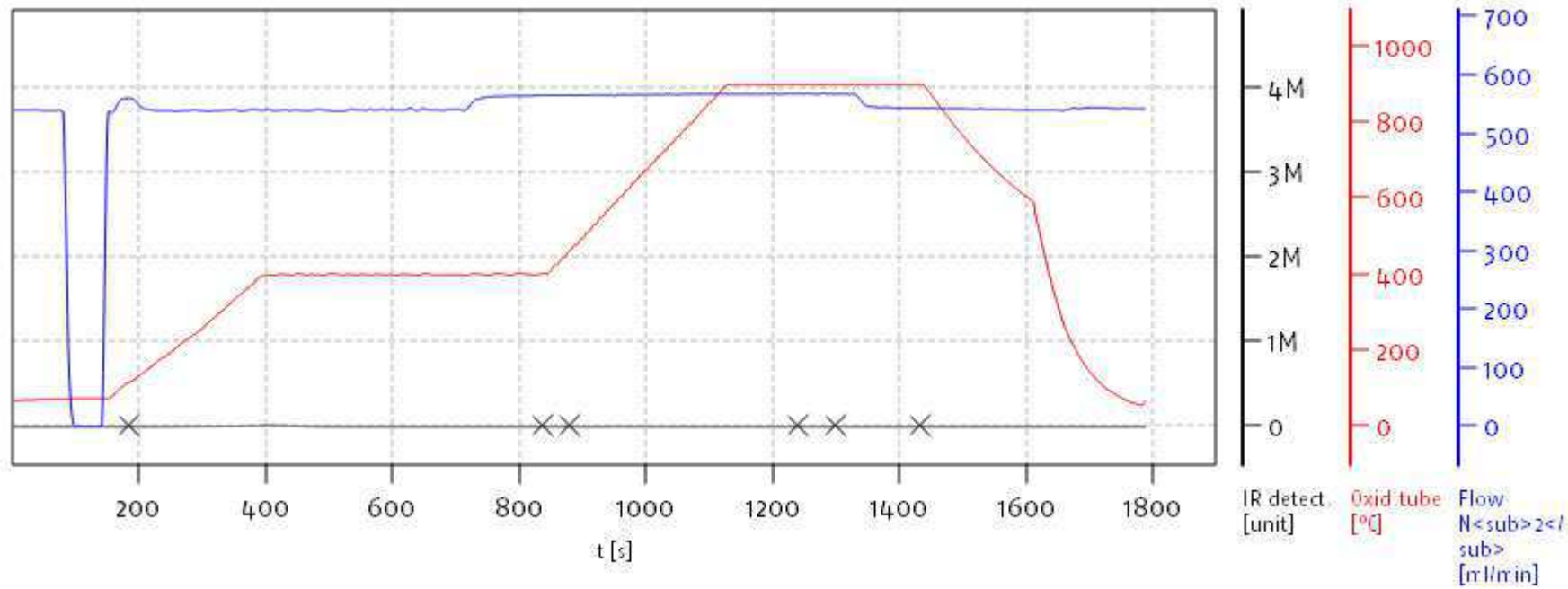
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SLF0370-CCB2	553.80		CARBON	6/25/2023 3:35 AM	bl,C3u,C2u	0.007	53 823	0.007	0.000	160	3 260	0.007	0.000	0.9923	1.0000



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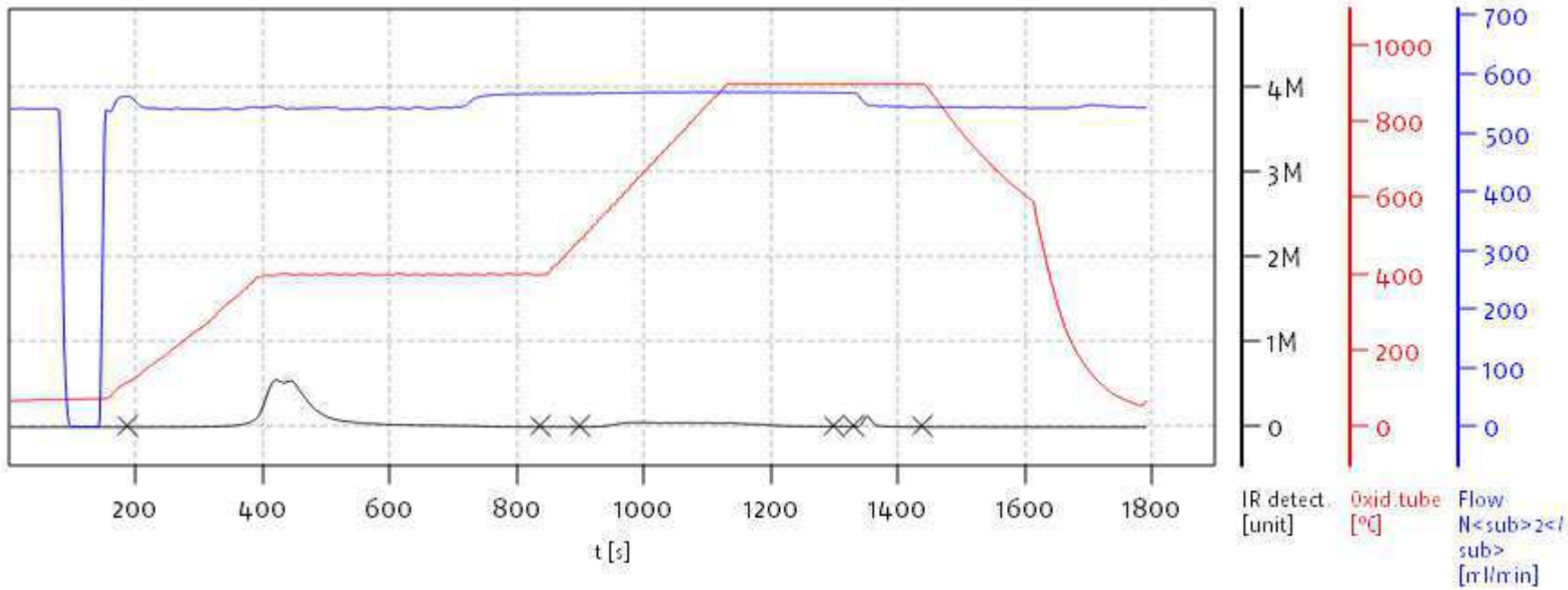
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	23E0295-02	501.90		CARBON	6/25/2023 4:05 AM	bl	0.619	1 942 554	0.760	0.019	87 632	476 516	0.600	0.141	0.9923	1.0000



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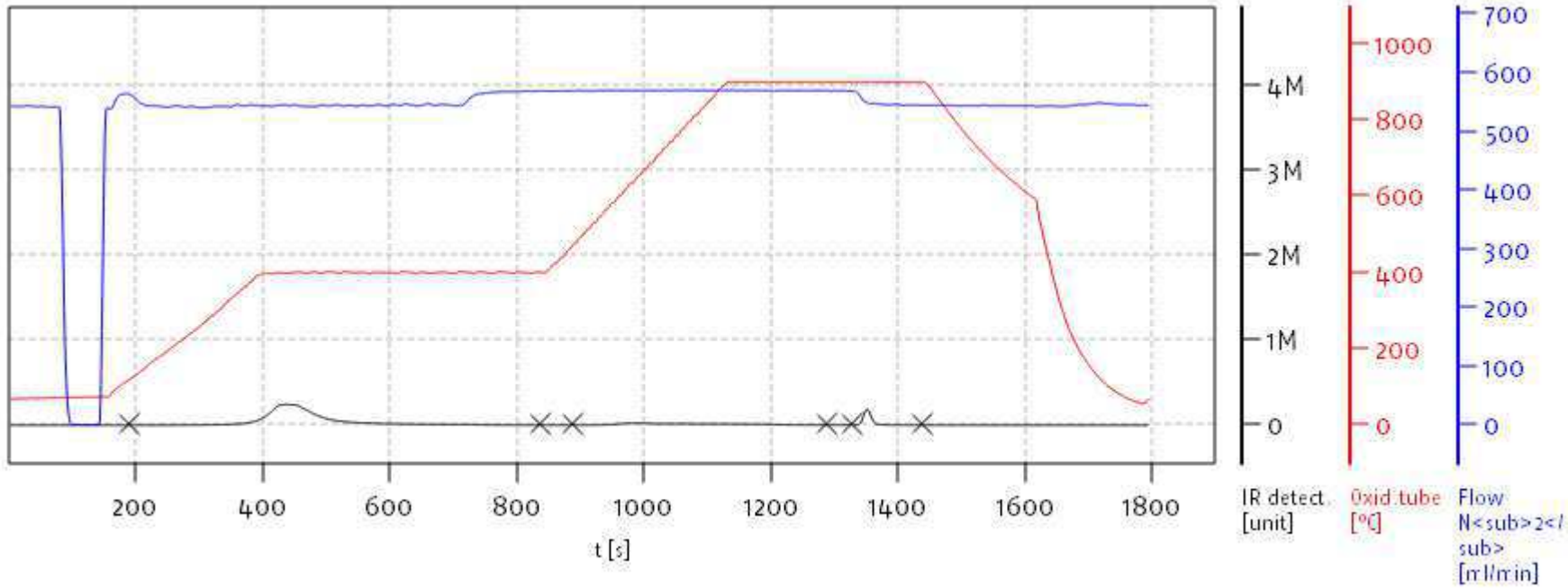
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	23E0295-03	558.60		CARBON	6/25/2023 4:35 AM	bl	0.276	930 179	0.314	0.022	105 058	163 426	0.254	0.038	0.9923	1.0000



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Balance: BAL3
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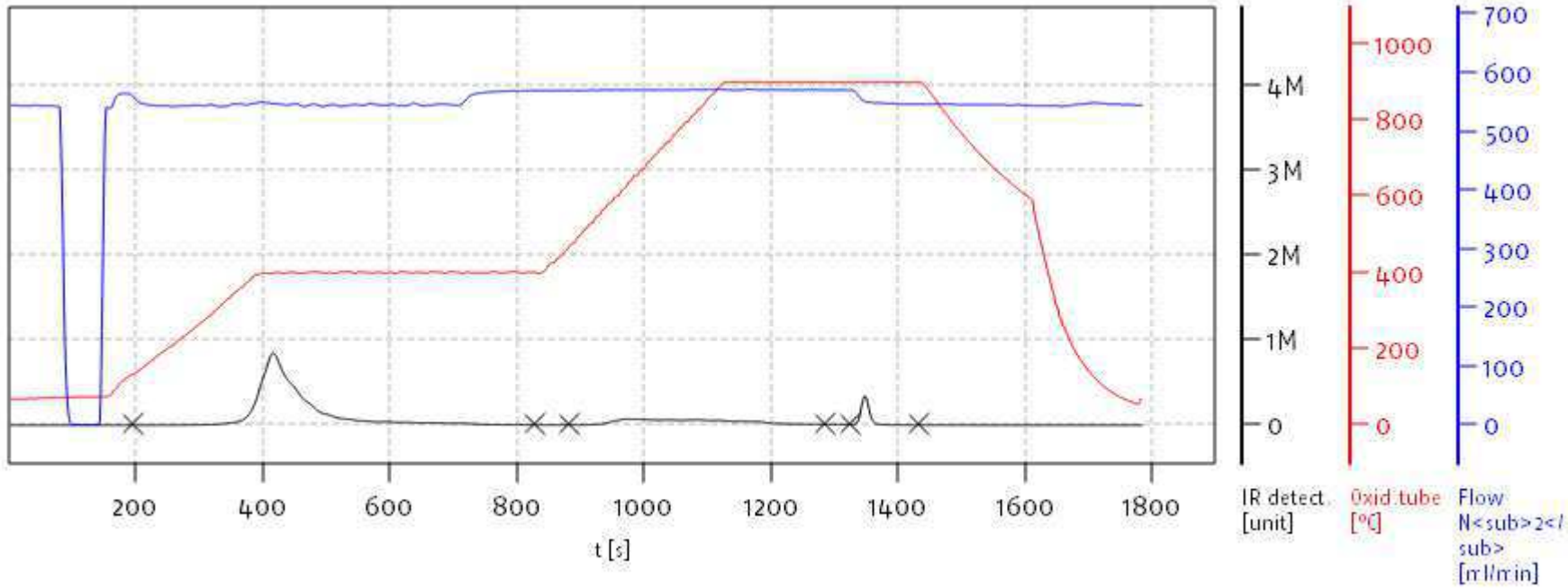
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23E0295-04	544.00		CARBON	6/25/2023 5:05 AM	bl	0.746	2 433 971	0.909	0.050	199 908	590 380	0.696	0.164	0.9923	1.0000



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elementar
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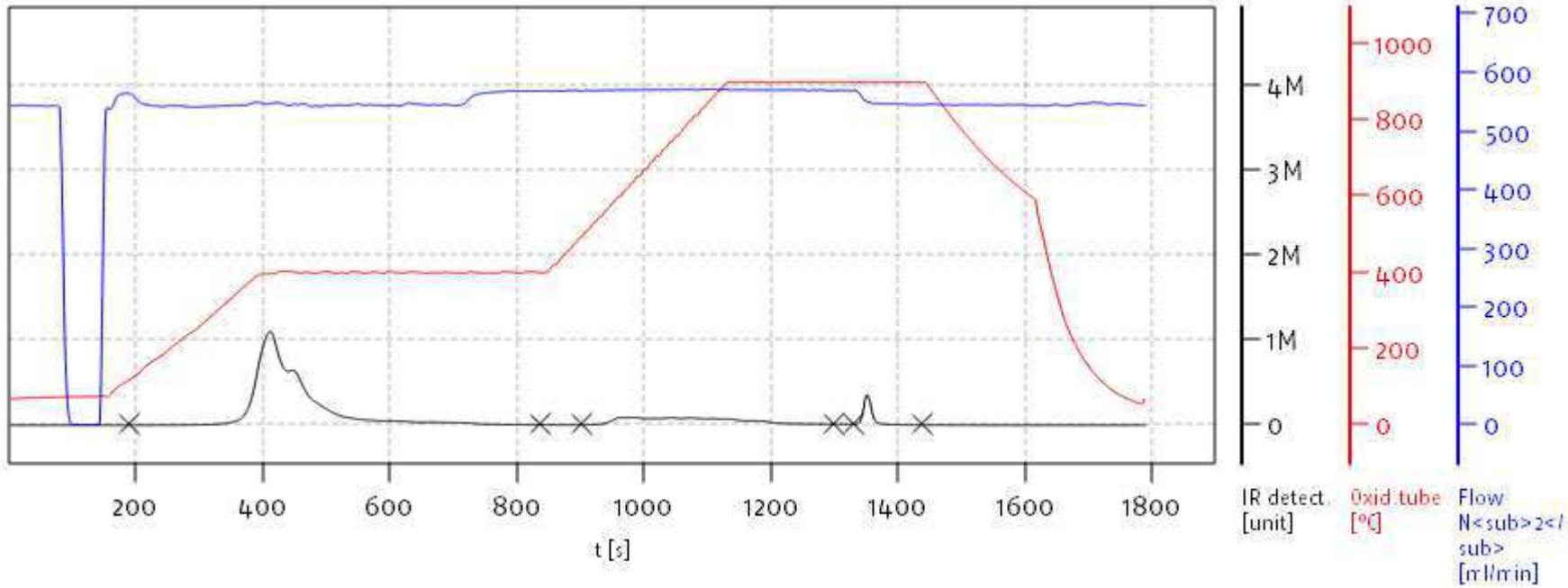
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23E0295-05	621.40		CARBON	6/25/2023 5:35 AM	bl	0.891	3 357 821	1.081	0.048	215 432	772 947	0.843	0.190	0.9923	1.0000



Name:

Access: soliTOC superuser

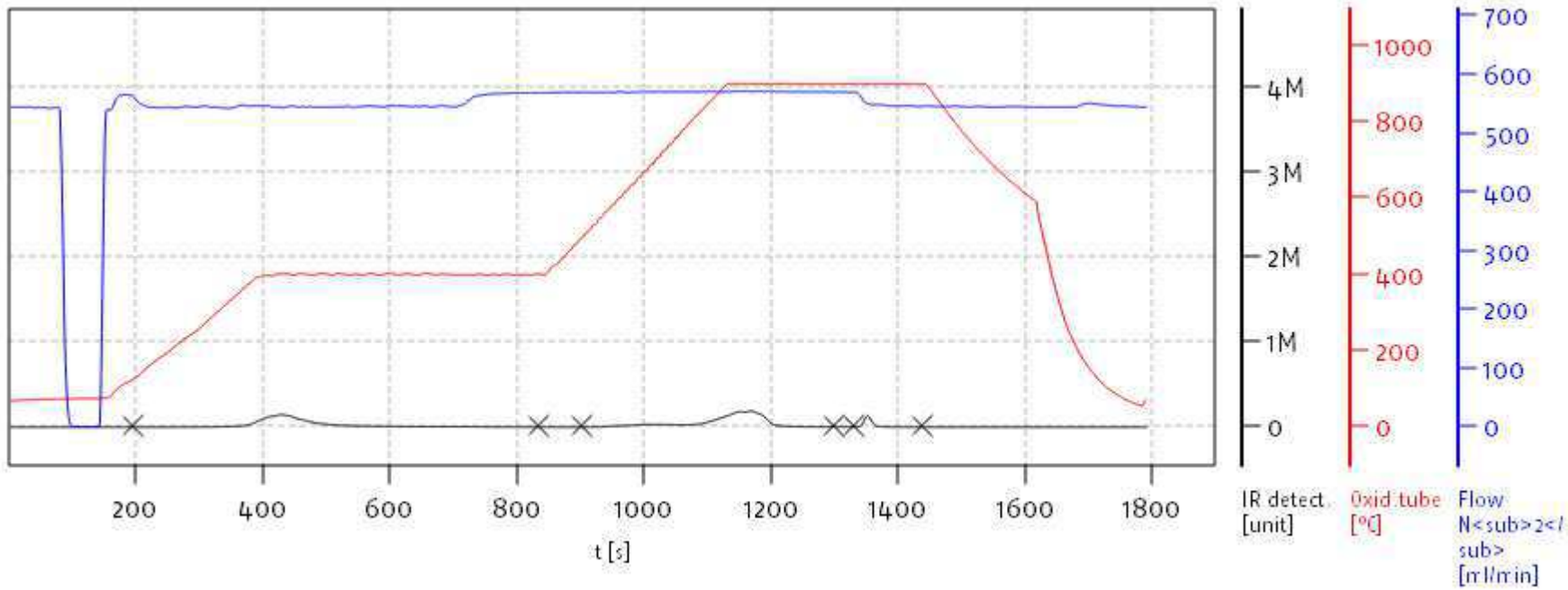
Date: Mon Jun 26 10:08:08 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	23D0663-02	166.70		CARBON	6/25/2023 6:06 AM	bl	0.522	535 698	1.160	0.044	74 812	698 717	0.479	0.637	0.9923	1.0000



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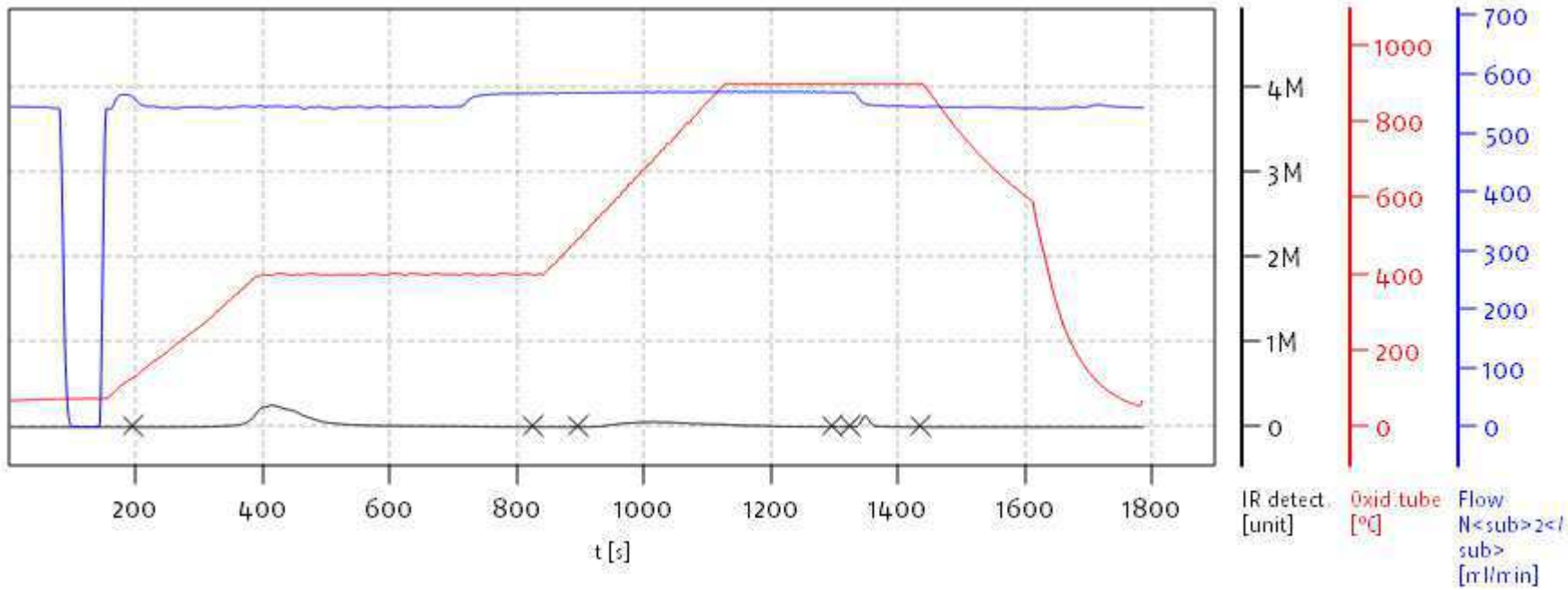
Document: 062423 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	23D0663-03	288.60		CARBON	6/25/2023 6:36 AM	bl	0.552	986 831	0.752	0.030	82 593	392 927	0.522	0.200	0.9923	1.0000



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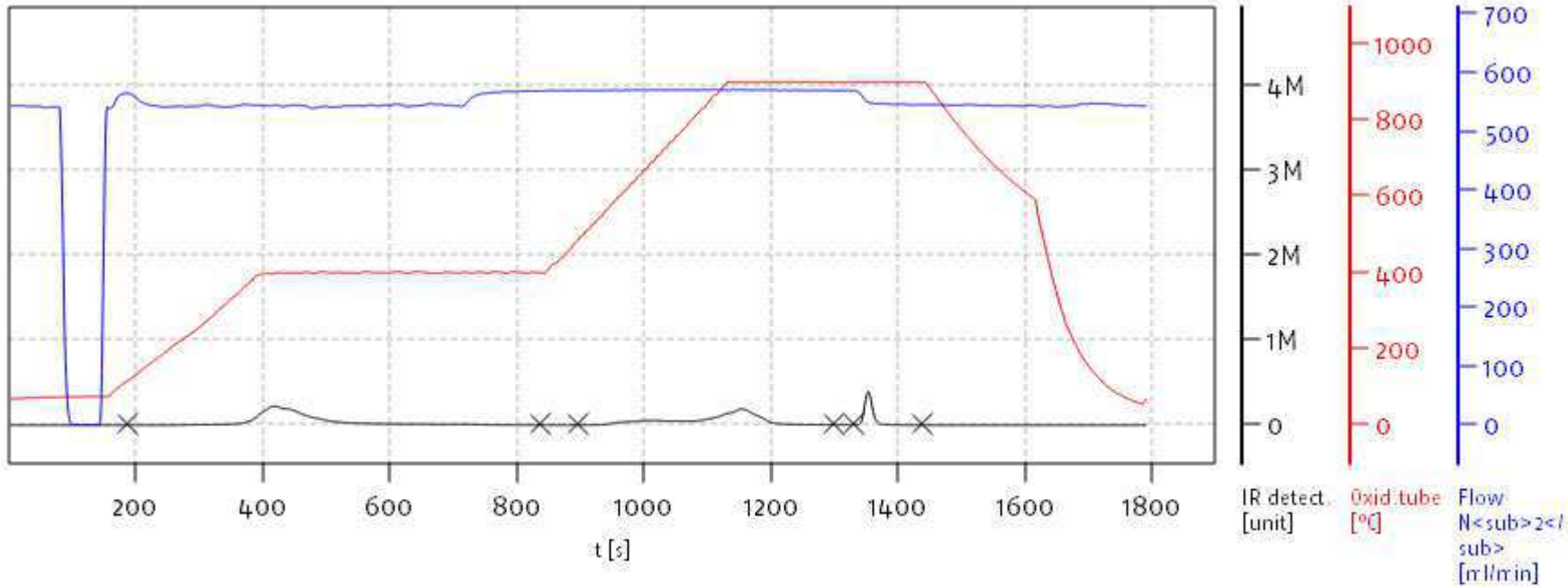
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	23D0663-04	187.00		CARBON	6/25/2023 7:06 AM	bl	0.851	851 489	1.481	0.159	216 333	771 091	0.692	0.630	0.9923	1.0000



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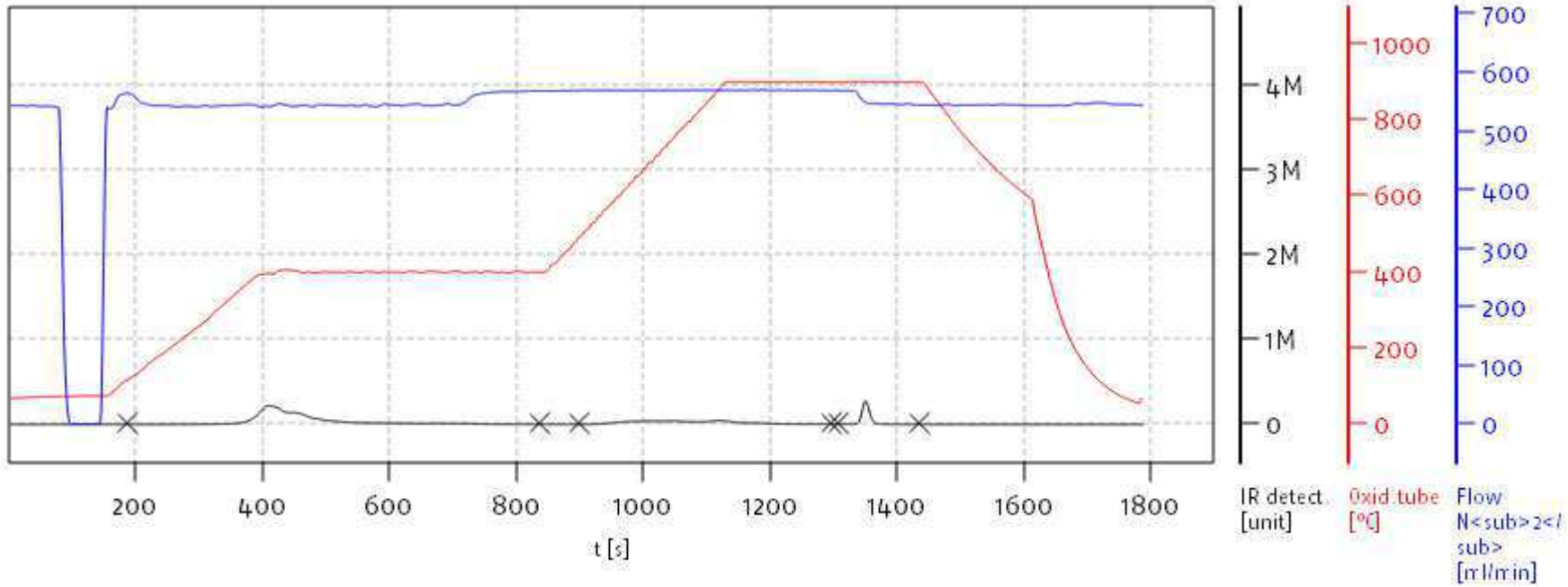
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	23D0663-05	180.70		CARBON	6/25/2023 7:36 AM	bl	0.762	782 972	1.019	0.105	148 861	321 508	0.657	0.257	0.9923	1.0000



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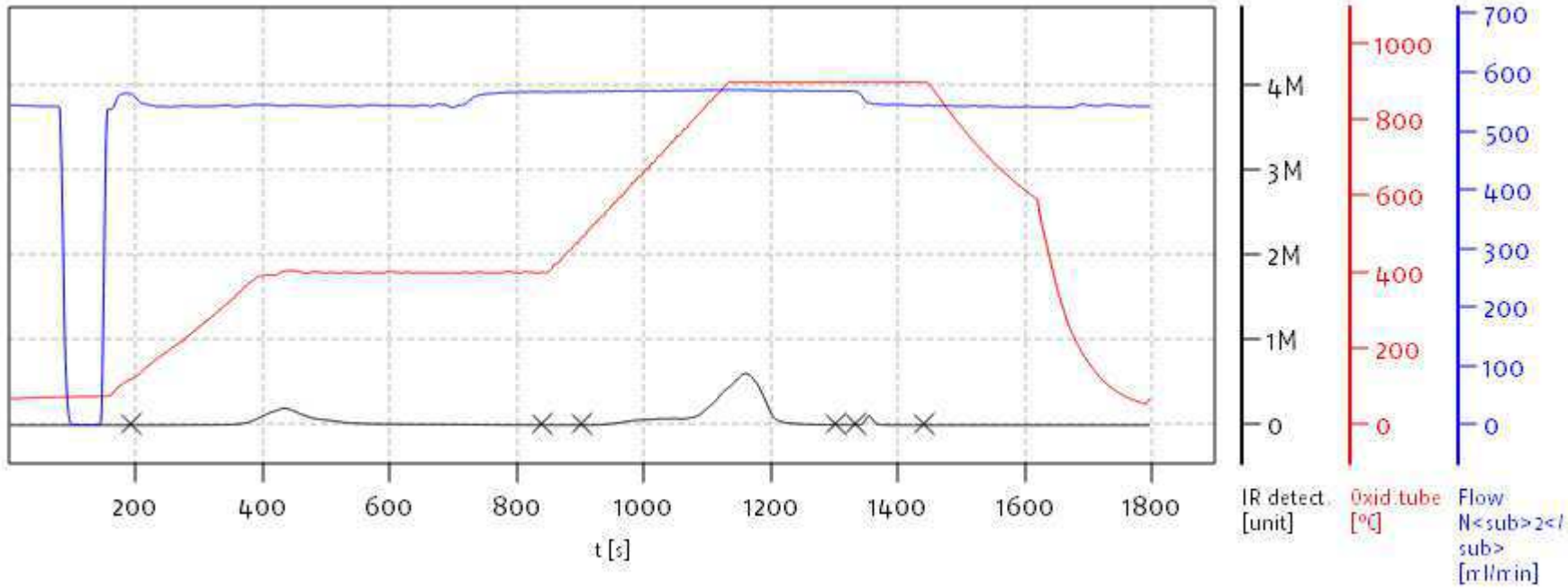
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	23D0663-06	293.60		CARBON	6/25/2023 8:06 AM	bl	0.401	744 323	1.518	0.017	61 250	2 096 536	0.384	1.117	0.9923	1.0000



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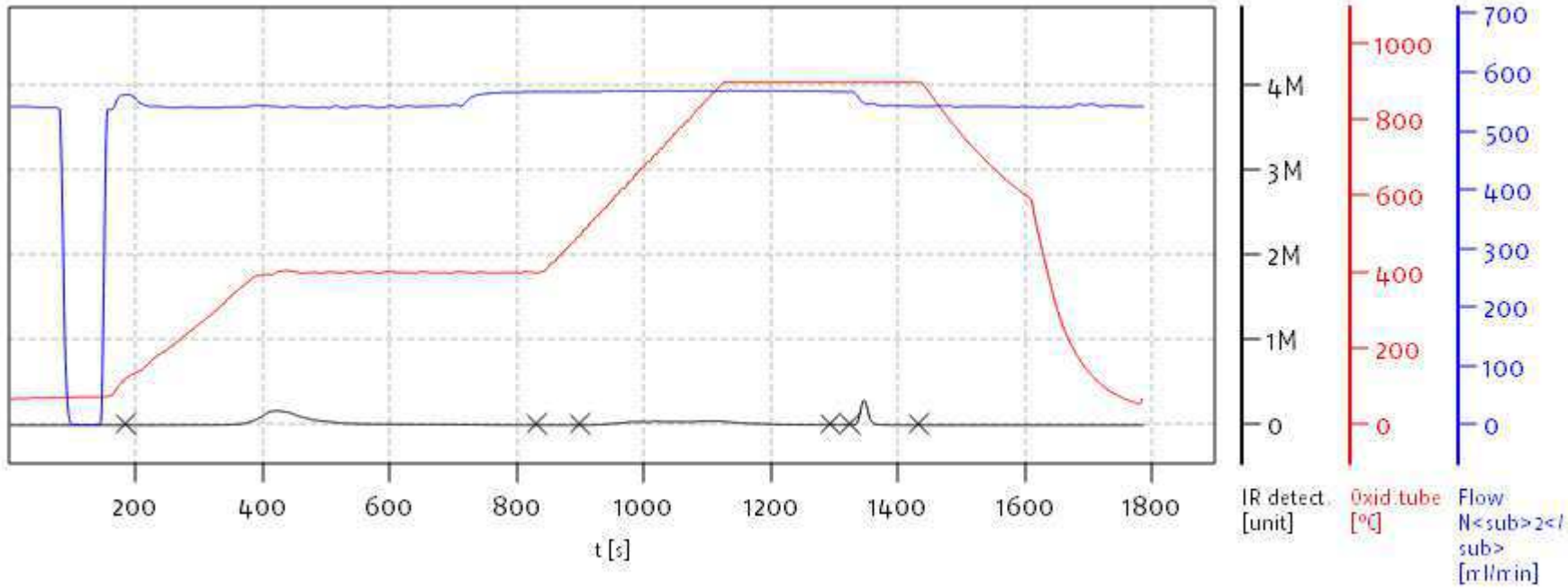
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	23D0663-07	239.10		CARBON	6/25/2023 8:37 AM	bl	0.482	628 939	0.697	0.087	159 830	353 824	0.395	0.216	0.9923	1.0000



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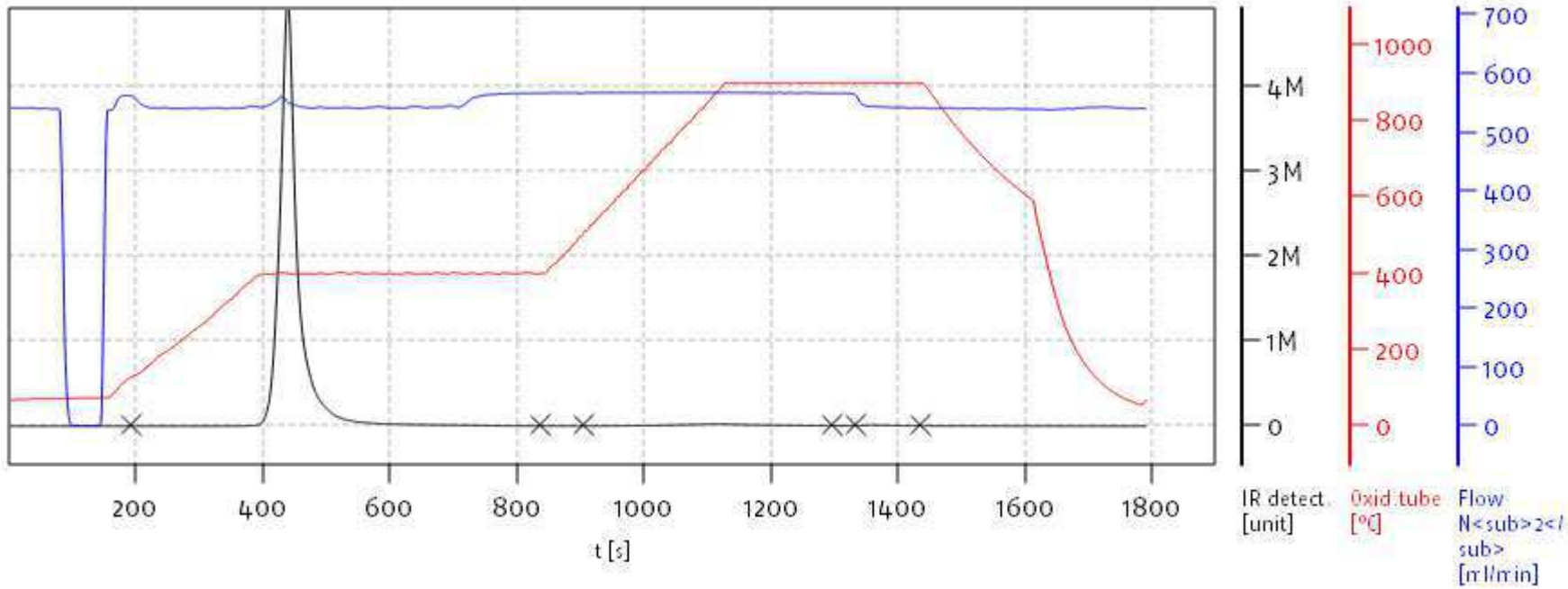
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SLF0370-CCV3	21.50		CARBON	6/25/2023 9:07 AM	bl	44.874	6 158 553	45.796	0.000	27 263	153 878	44.874	0.922	0.9923	1.0000



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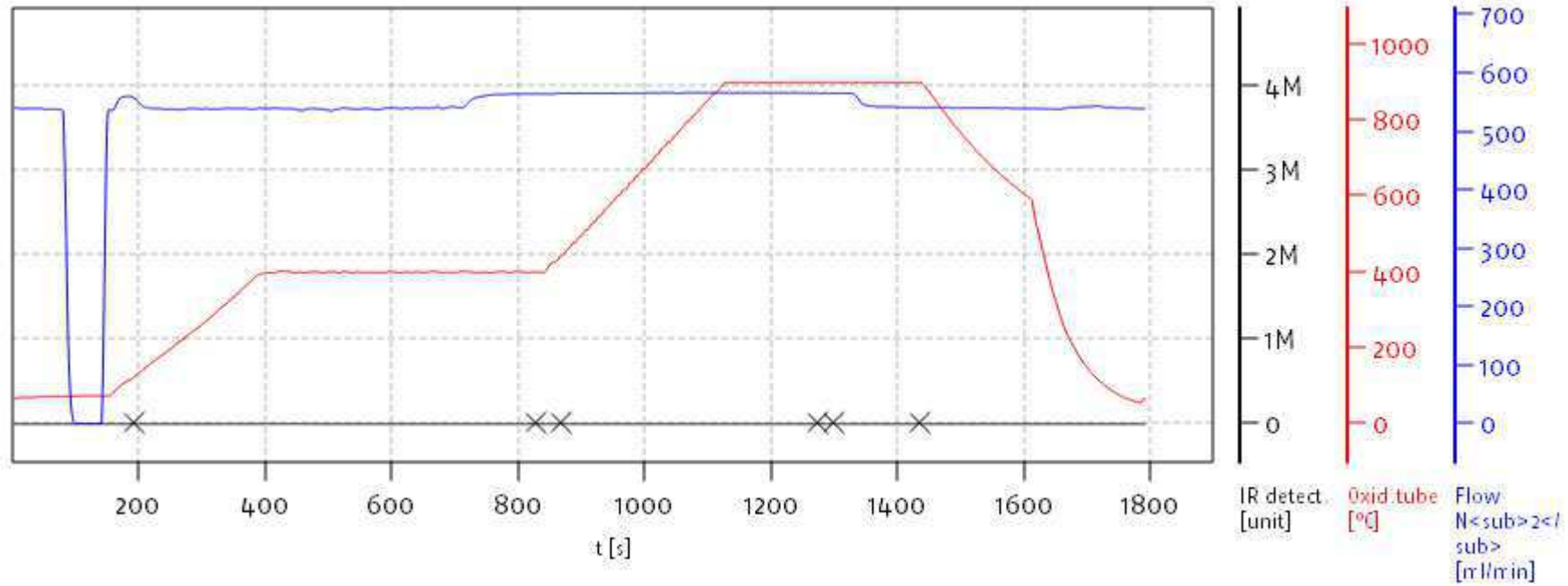
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SLF0370-CCB3	539.90		CARBON	6/25/2023 9:37 AM	bl,C1u,C3u,C2u	0.000	4 780	0.000	0.000	214	137	0.000	0.000	0.9923	1.0000



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Balance: BAL3
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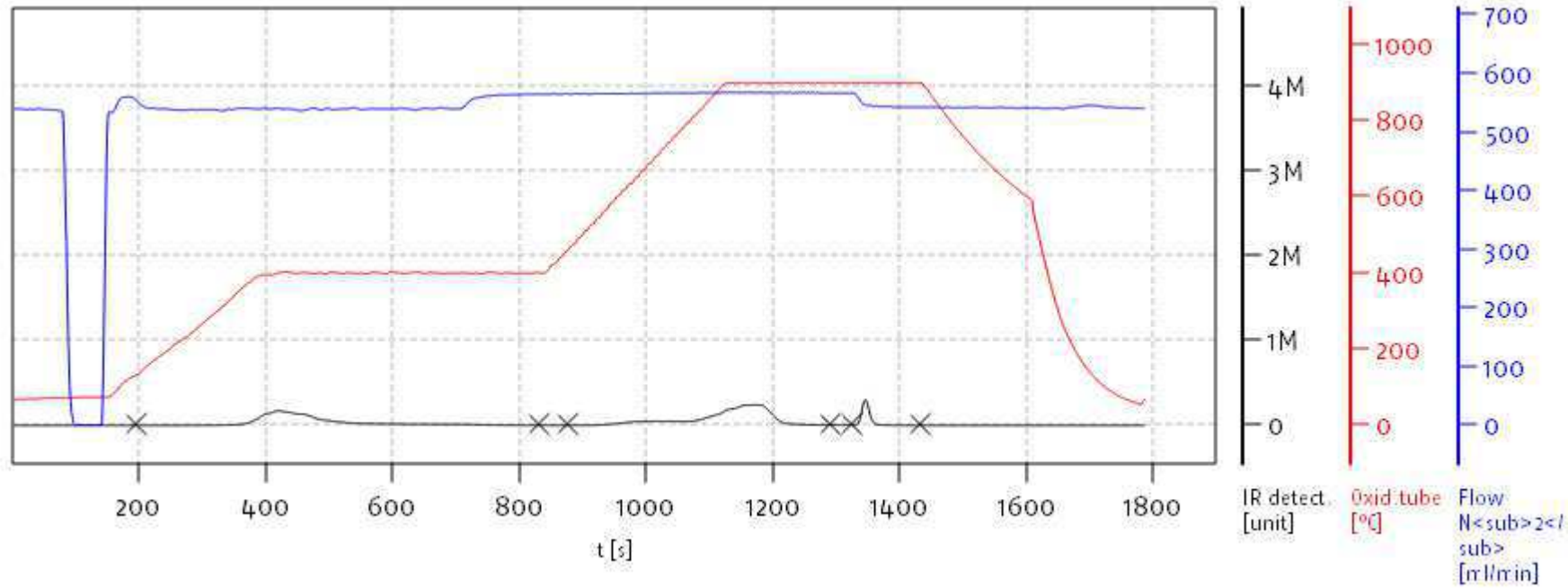
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	23D0665-01	236.90		CARBON	6/25/2023 10:07 AM	bl	0.572	753 980	1.279	0.090	163 284	1 084 446	0.482	0.707	0.9923	1.0000



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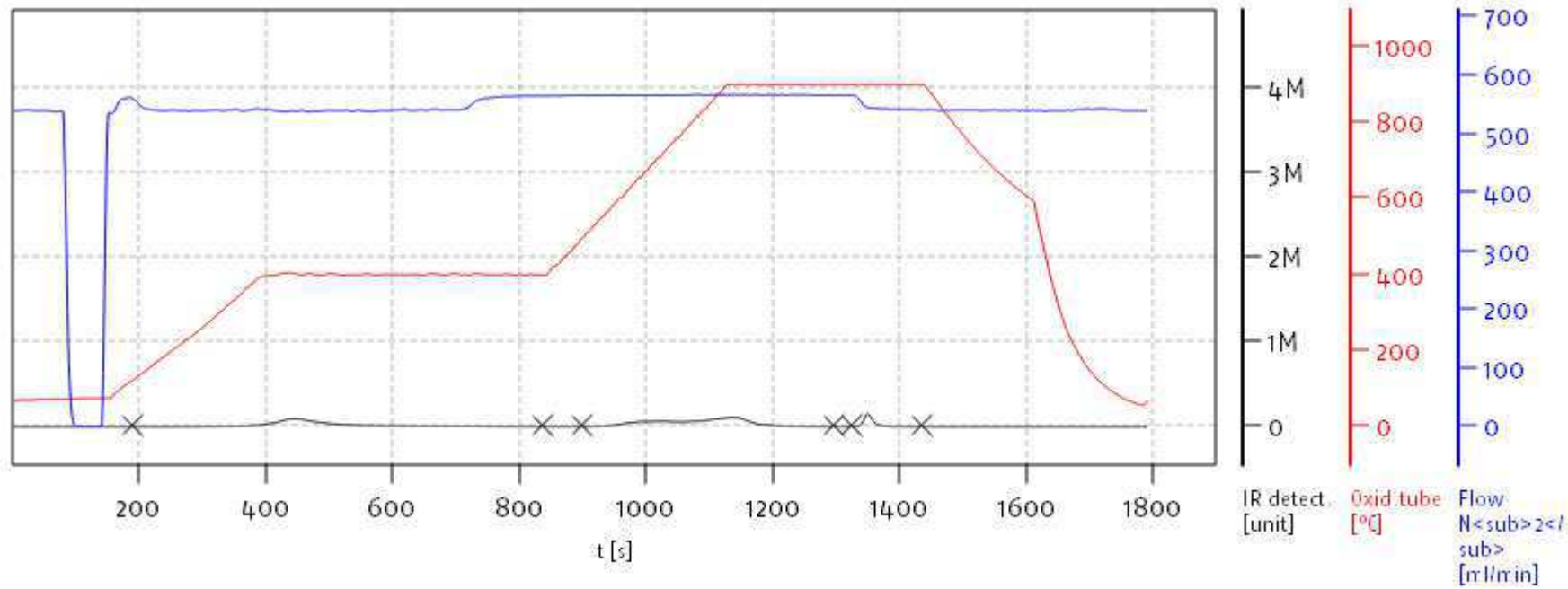
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	23D0665-02	317.60		CARBON	6/25/2023 10:37 AM	bl	0.210	383 442	0.498	0.034	96 536	606 379	0.176	0.288	0.9923	1.0000



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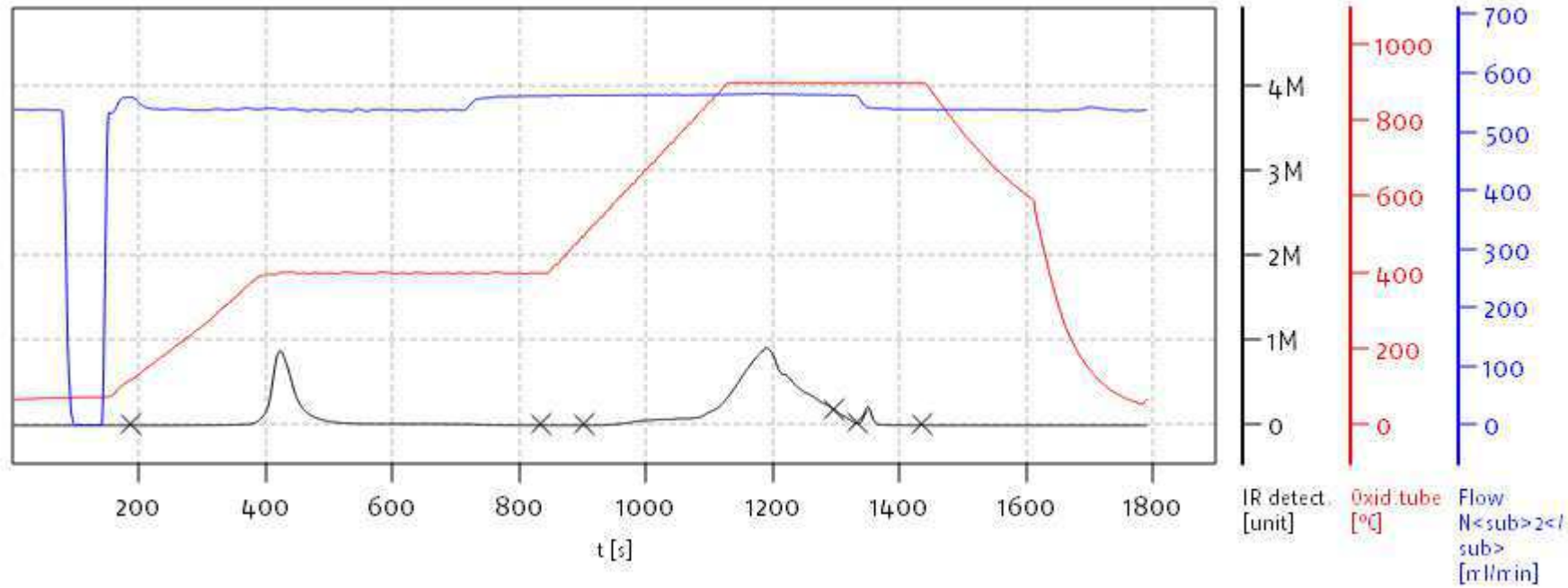
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	23D0665-03	218.70		CARBON	6/25/2023 11:08 AM	bl	1.190	1 583 751	4.089	0.071	127 011	4 026 216	1.119	2.899	0.9923	1.0000



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Balance: BAL3
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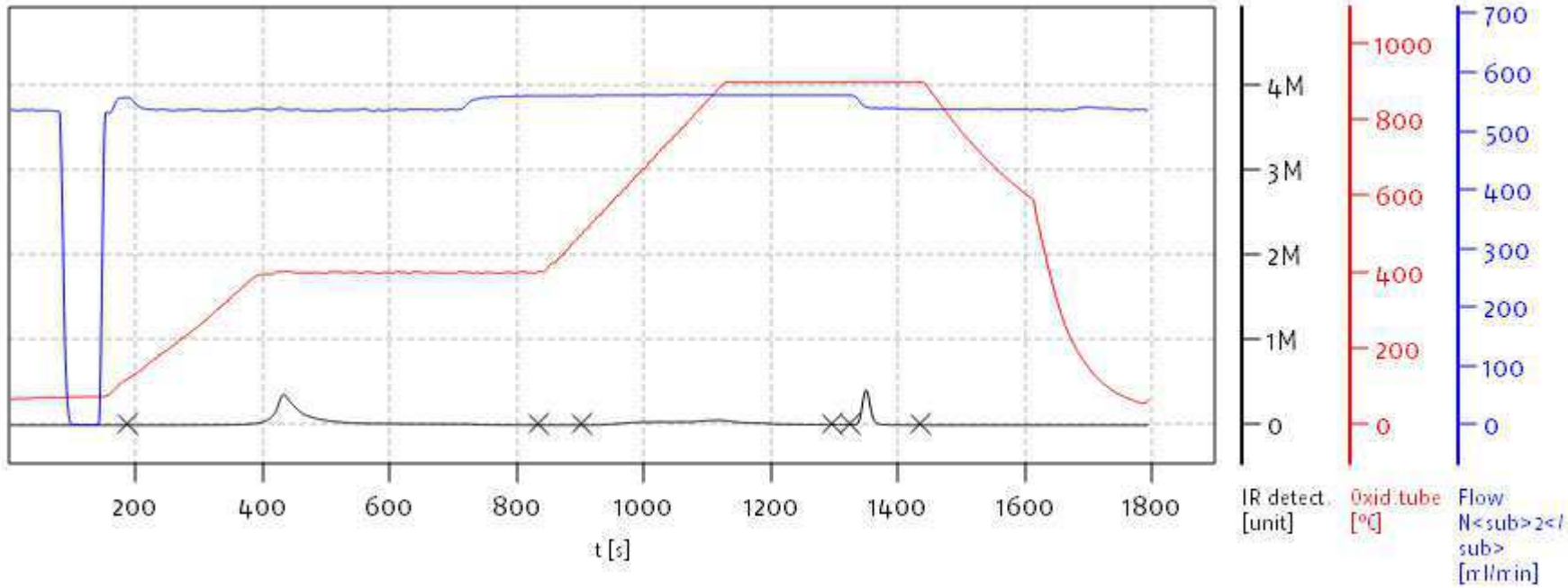
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	23D0665-04	223.80		CARBON	6/25/2023 11:38 AM	bl	0.688	799 969	0.932	0.146	234 591	372 885	0.542	0.244	0.9923	1.0000



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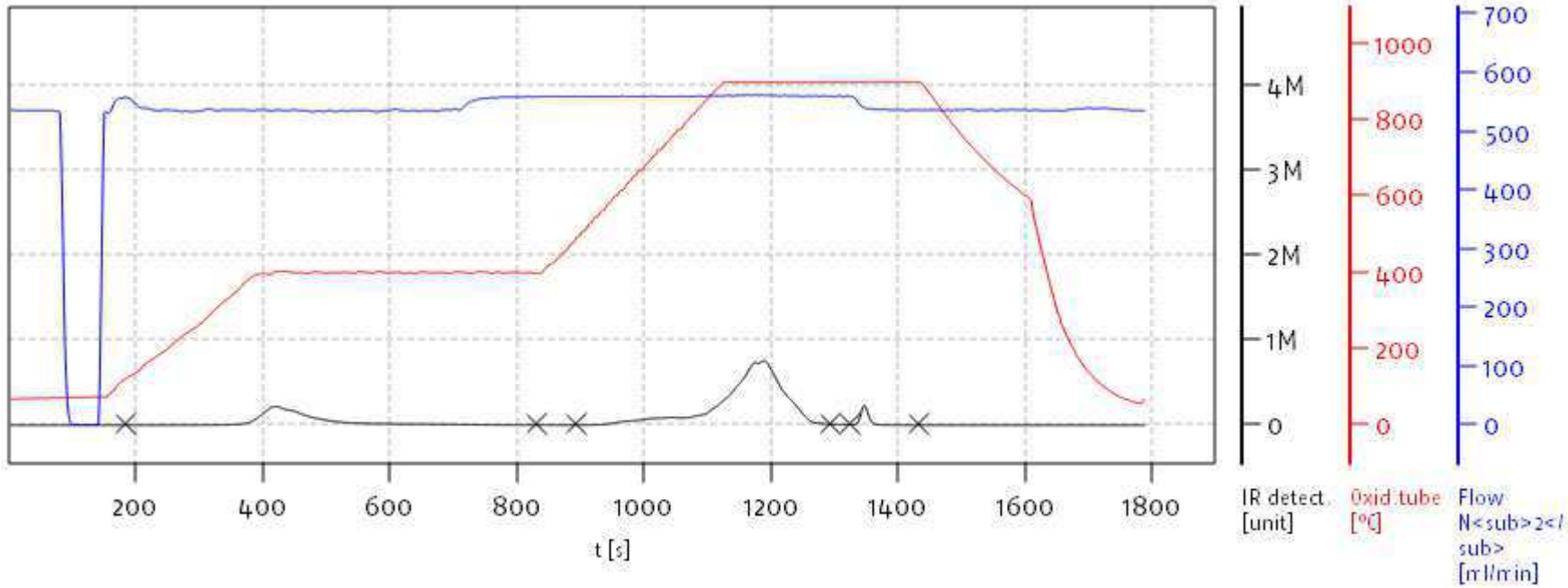
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	23D0665-06	244.40		CARBON	6/25/2023 12:08 PM	bl	0.560	798 479	2.506	0.064	127 596	3 027 687	0.496	1.946	0.9923	1.0000



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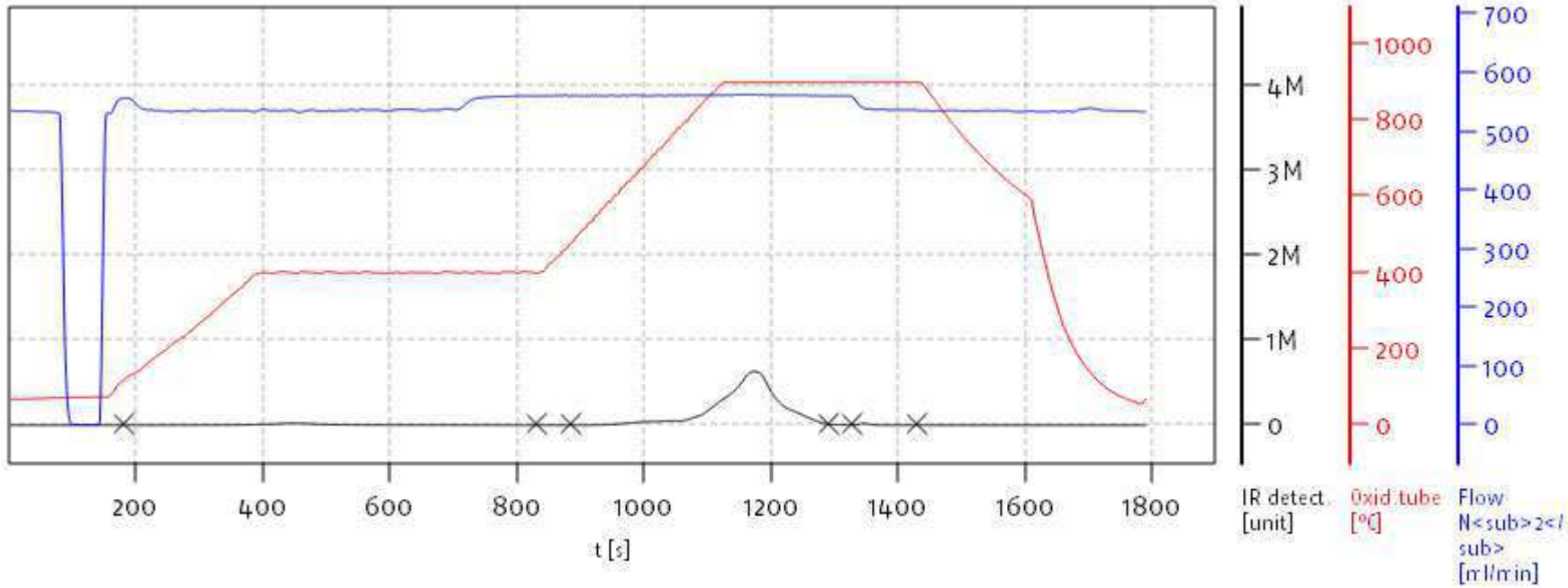
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	23D0665-07	210.30		CARBON	6/25/2023 12:38 PM	bl,C2u	0.053	100 316	1.865	0.000	14 658	2 430 925	0.053	1.812	0.9923	1.0000



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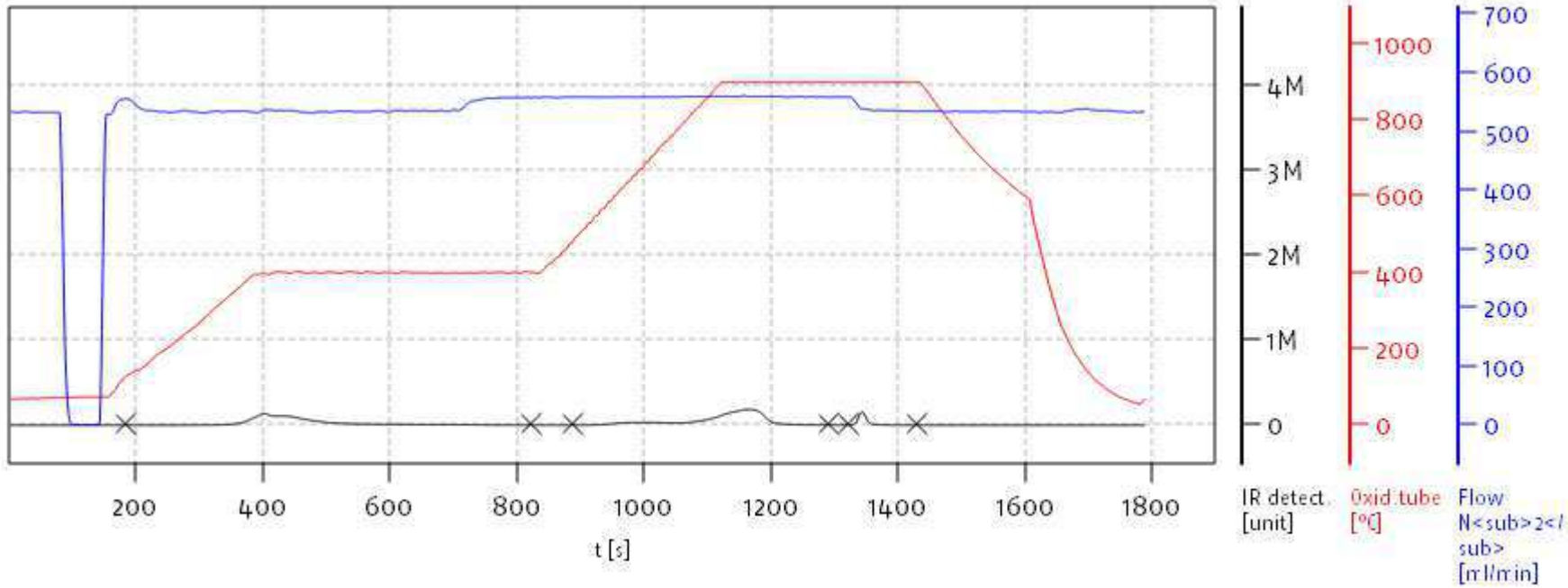
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	23D0665-08	190.00		CARBON	6/25/2023 1:09 PM	bl	0.473	539 531	1.052	0.050	88 304	723 297	0.423	0.580	0.9923	1.0000



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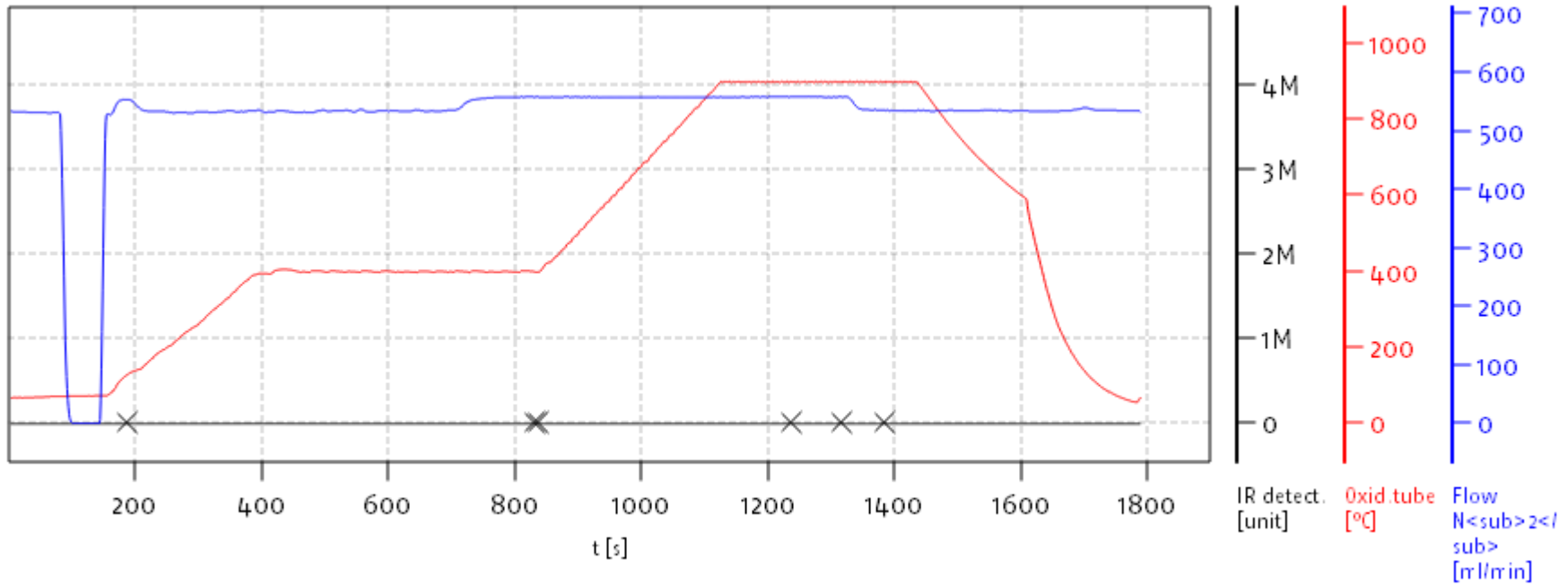
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	6/ 25/2023 1:39 PM	bl	0.000	6 031	0.000	0.000	126	1 018	0.000	0.000	0.9923	1.0000



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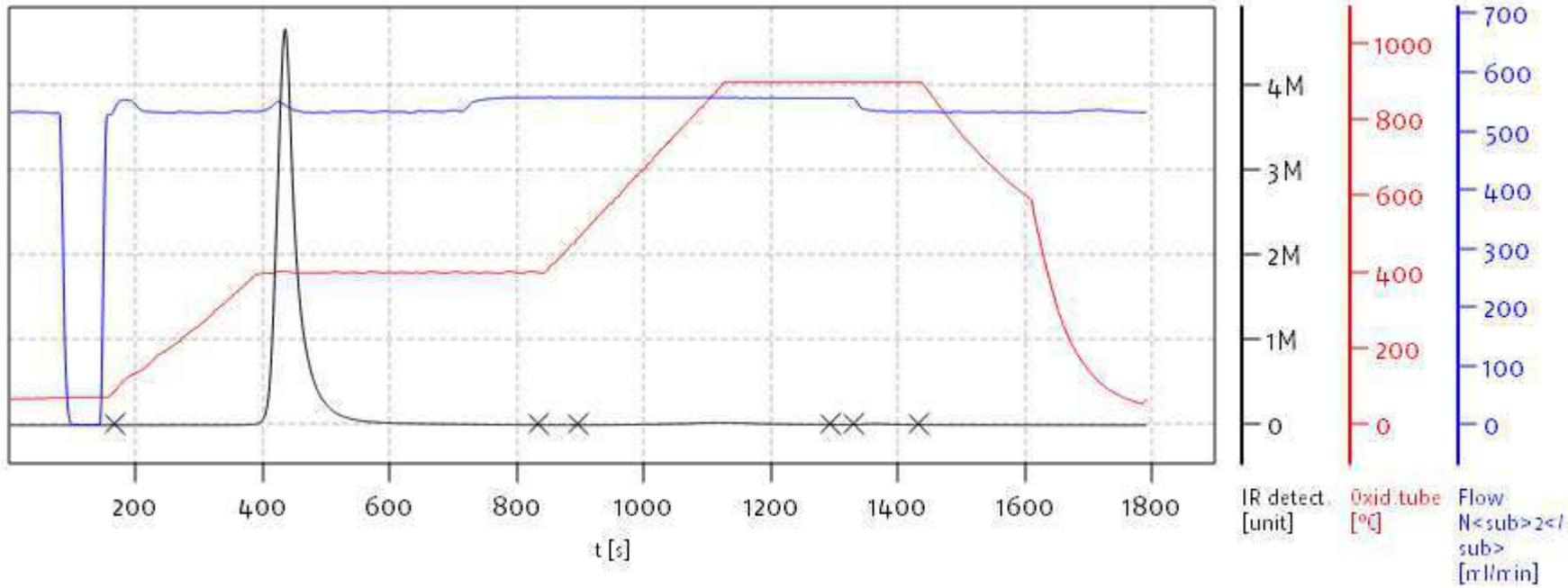
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	22.90		CARBON	6/25/2023 2:09 PM	bl	44.483	6 565 386	45.662	0.038	34 332	199 074	44.446	1.179	0.9817	1.0000



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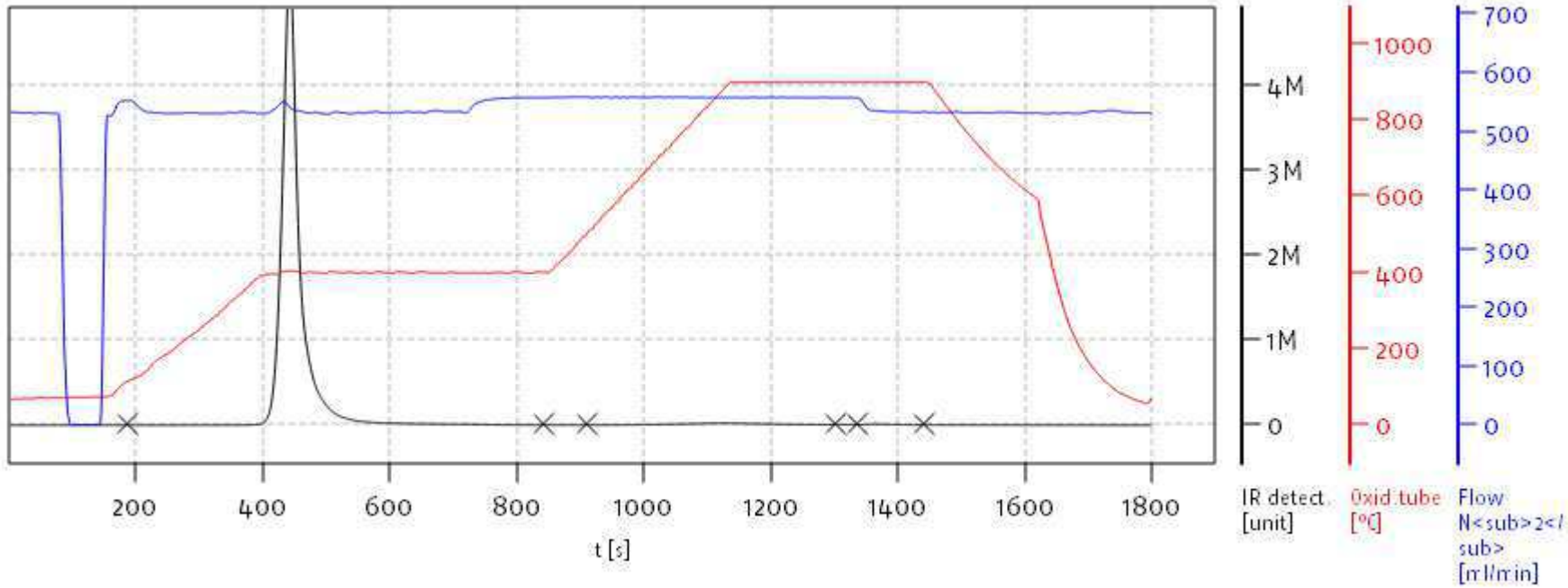
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	22.00		CARBON	6/25/2023 2:39 PM	bl	44.446	6 391 852	45.367	0.000	27 714	156 662	44.446	0.921	0.9688	1.0000



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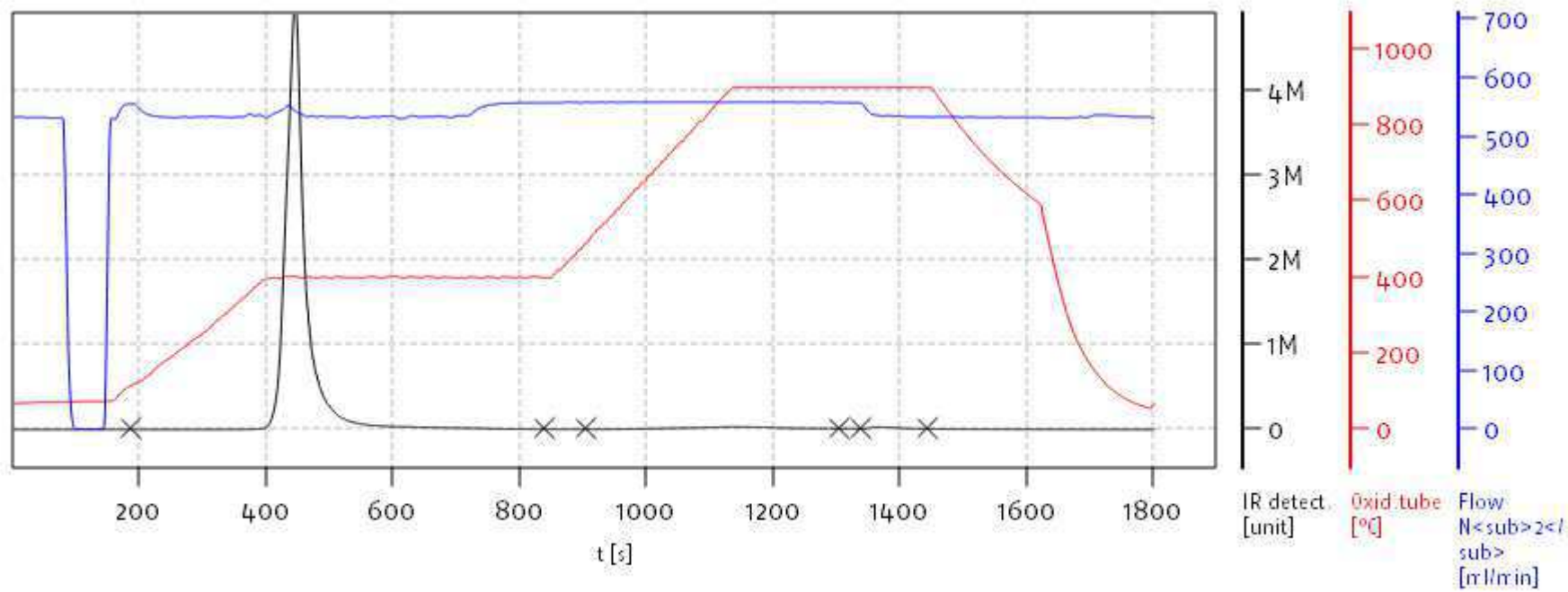
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SLF0370-CCV4	23.70		CARBON	6/25/2023 3:10 PM	bl	43.660	6 677 133	45.104	0.267	68 687	244 609	43.393	1.444	0.9753	1.0000



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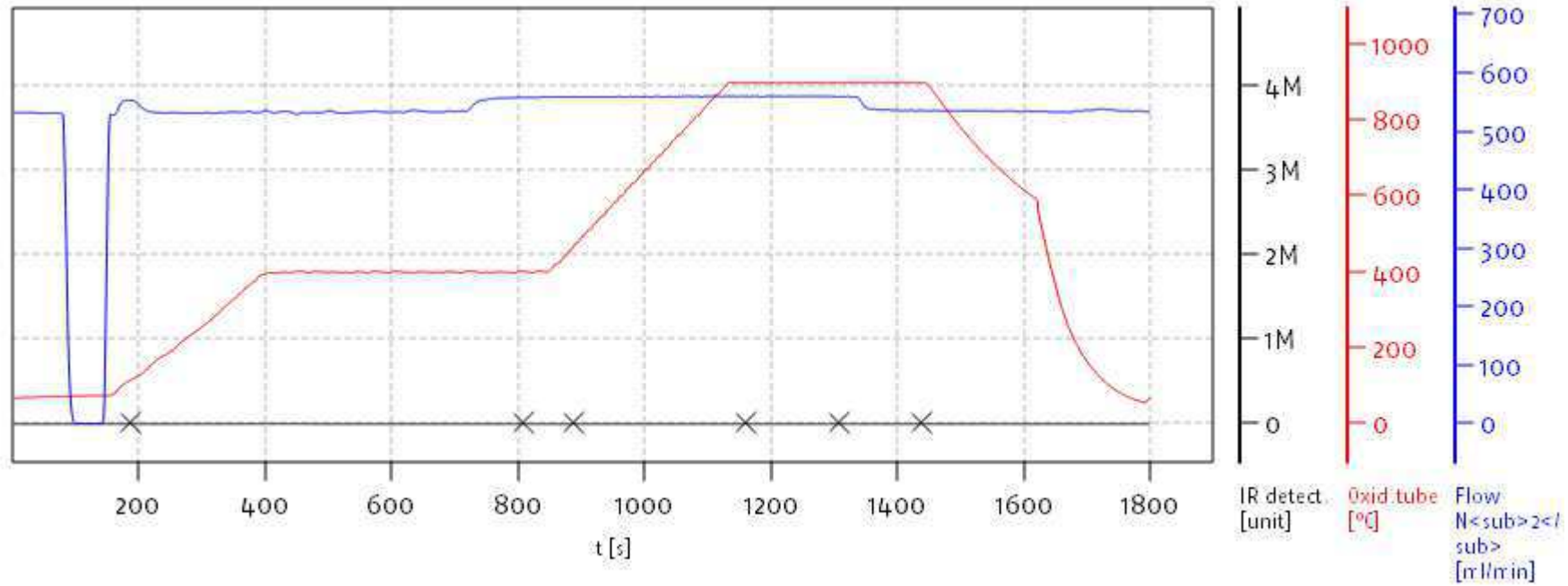
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 062423 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SLF0370-CCB4	524.80		CARBON	6/25/2023 3:40 PM	bl,C1u,C3u,C2u	0.000	10 185	0.000	0.000	237	3	0.000	0.000	0.9753	1.0000



Name:

Access: soliTOC superuser

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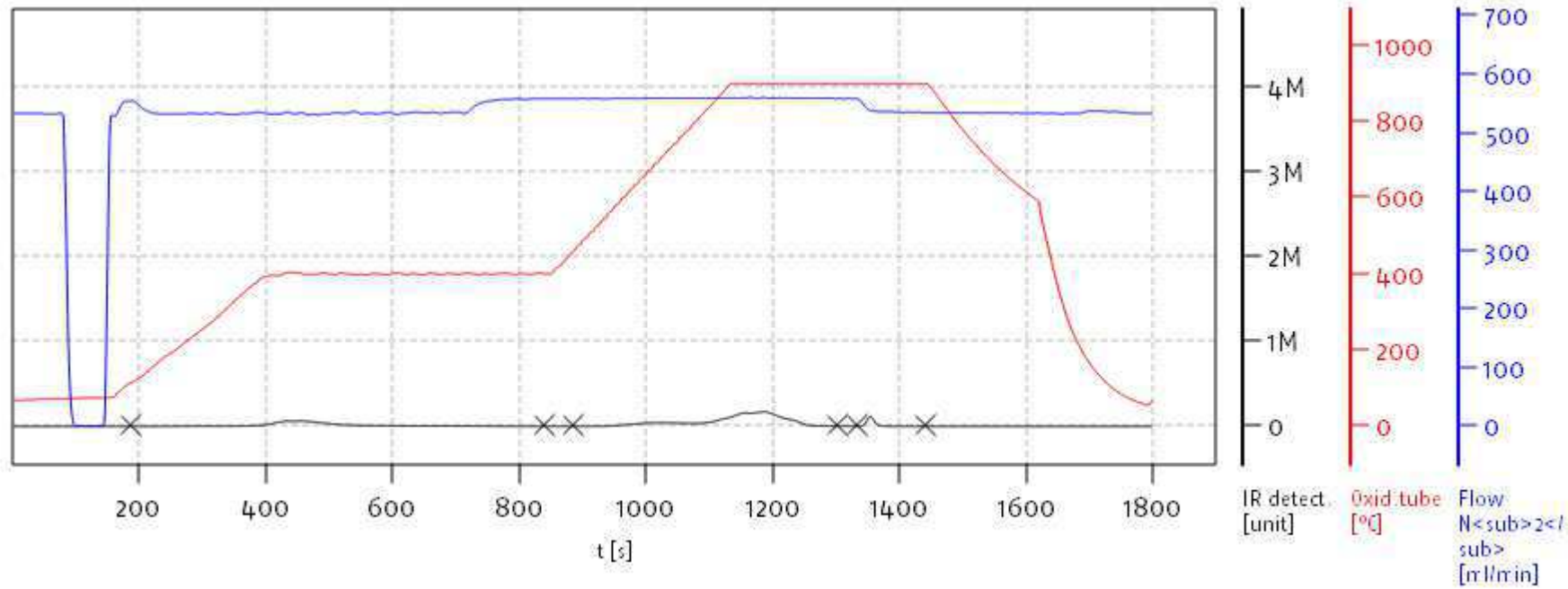
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	23D0665-09	249.80		CARBON	6/25/2023 4:10 PM	bl	0.195	304 854	0.716	0.024	66 166	850 182	0.171	0.522	0.9753	1.0000



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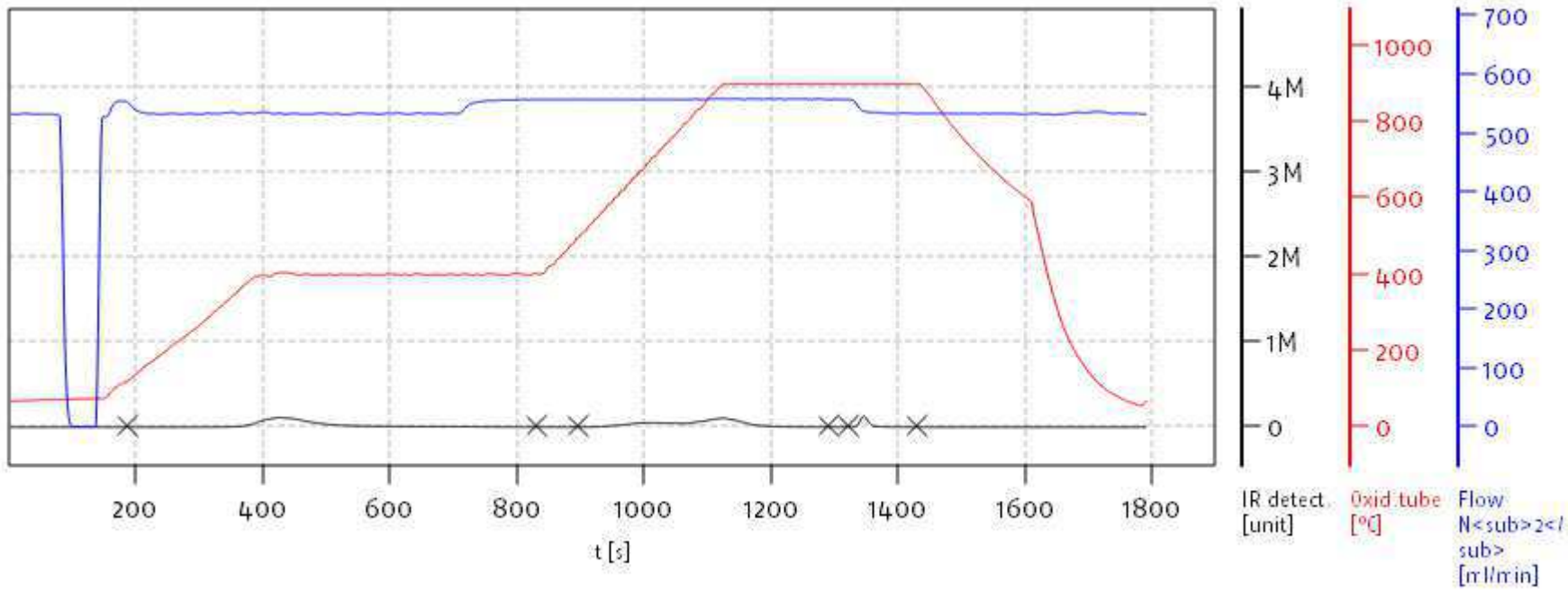
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	23D0665-13	250.80		CARBON	6/25/2023 4:41 PM	bl	0.302	470 114	0.605	0.030	76 649	507 535	0.272	0.303	0.9753	1.0000



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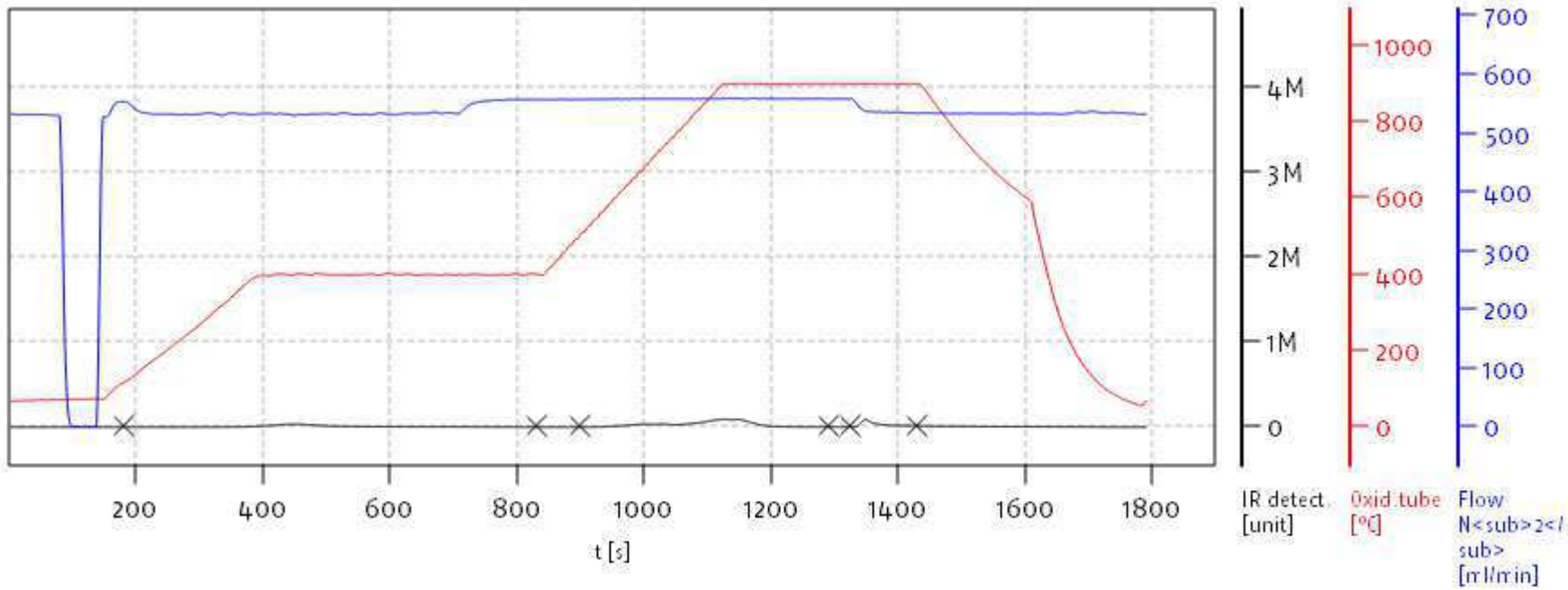
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	23D0665-14	207.70		CARBON	6/25/2023 5:11 PM	bl	0.169	163 601	0.485	0.069	119 245	442 332	0.100	0.316	0.9753	1.0000



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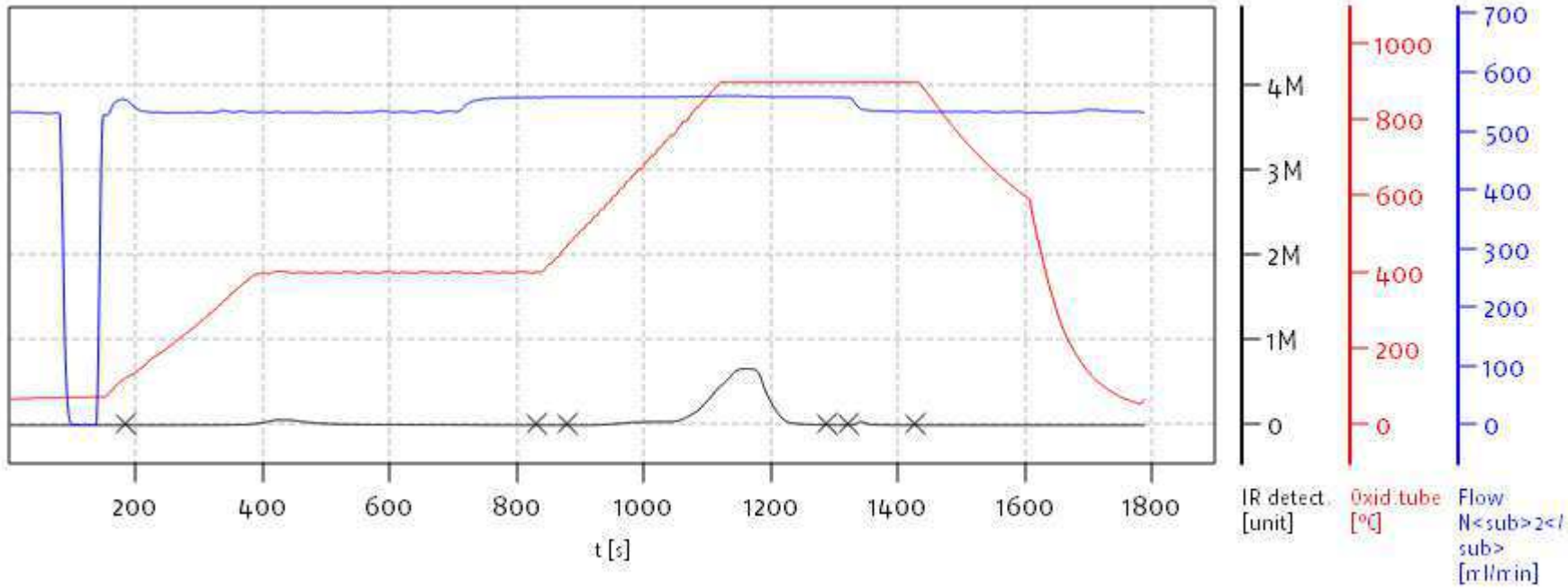
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	23D0682-01	182.70		CARBON	6/25/2023 5:41 PM	bl	0.183	245 059	2.356	0.000	27 744	2 531 460	0.183	2.173	0.9753	1.0000



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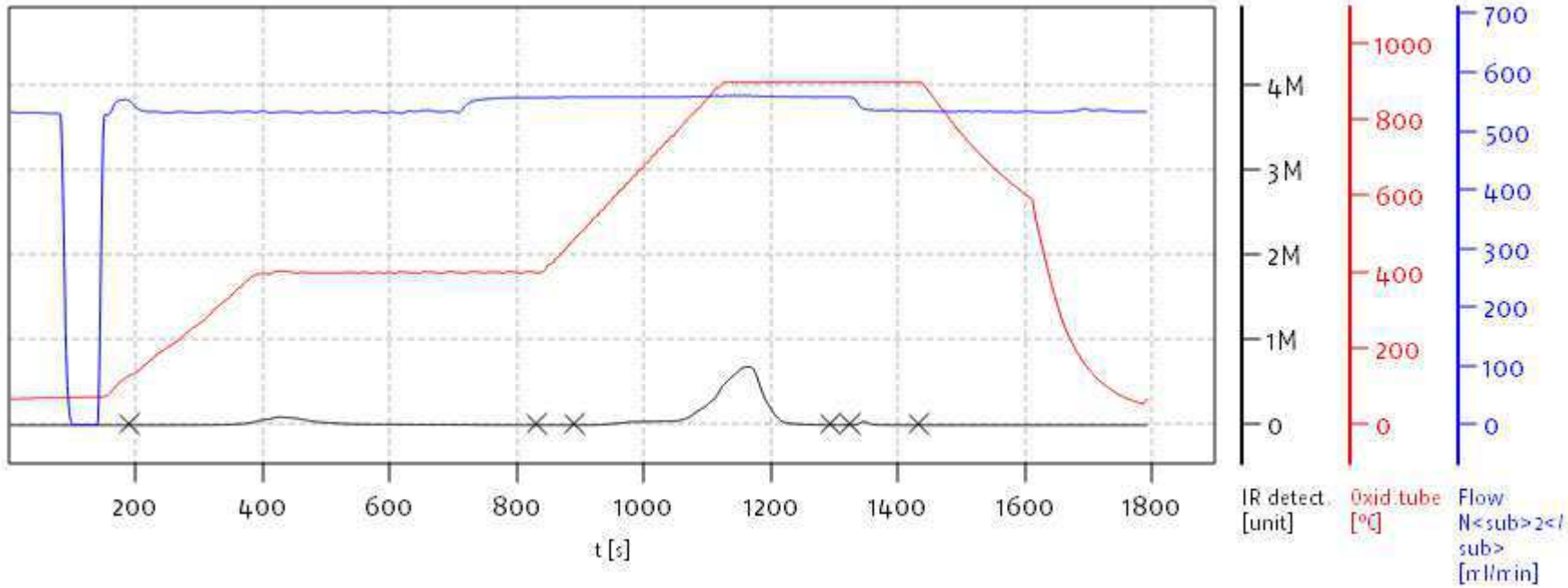
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	23D0682-02	378.60		CARBON	6/25/2023 6:11 PM	bl	0.152	401 266	1.115	0.000	28 281	2 327 725	0.152	0.963	0.9753	1.0000



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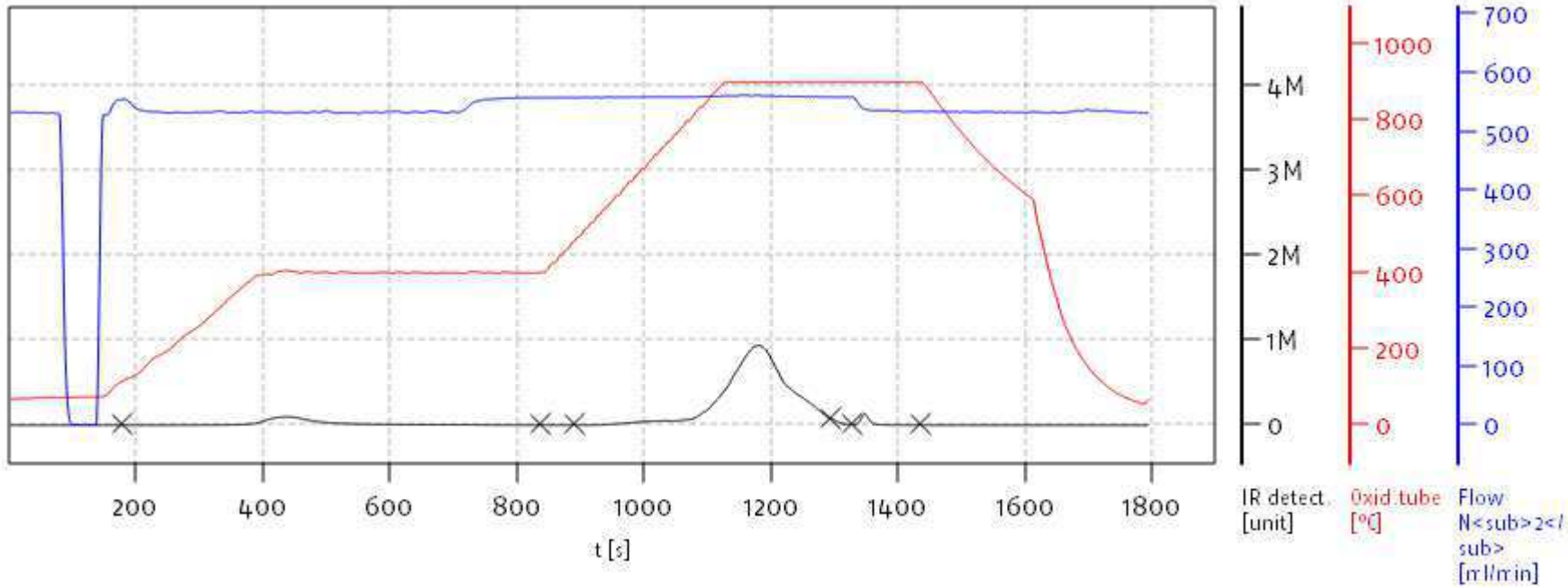
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	23D0682-03	309.00		CARBON	6/25/2023 6:42 PM	bl	0.210	396 564	2.229	0.026	79 812	3 962 312	0.184	2.019	0.9753	1.0000



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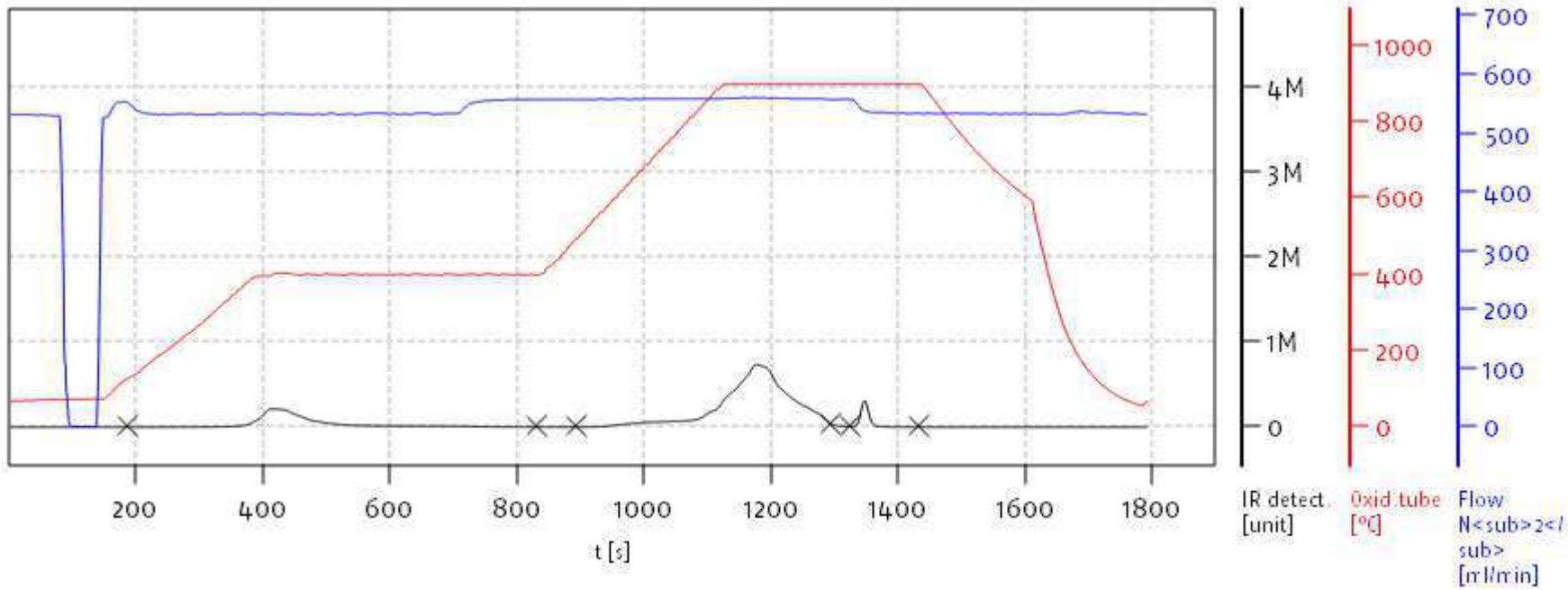
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	23D0682-05	222.50		CARBON	6/25/2023 7:12 PM	bl	0.626	777 269	2.893	0.105	176 513	3 209 970	0.520	2.268	0.9753	1.0000



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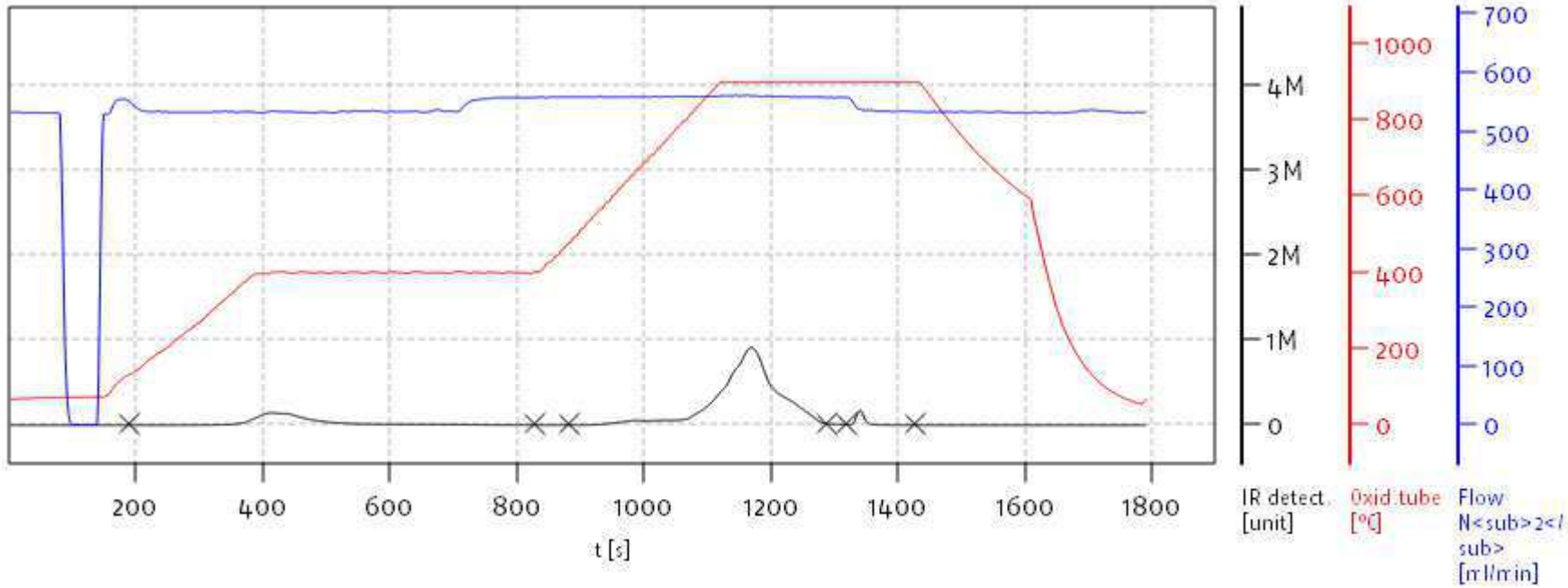
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	23D0682-06	279.50		CARBON	6/25/2023 7:42 PM	bl	0.363	611 320	2.273	0.041	101 077	3 393 674	0.322	1.909	0.9753	1.0000



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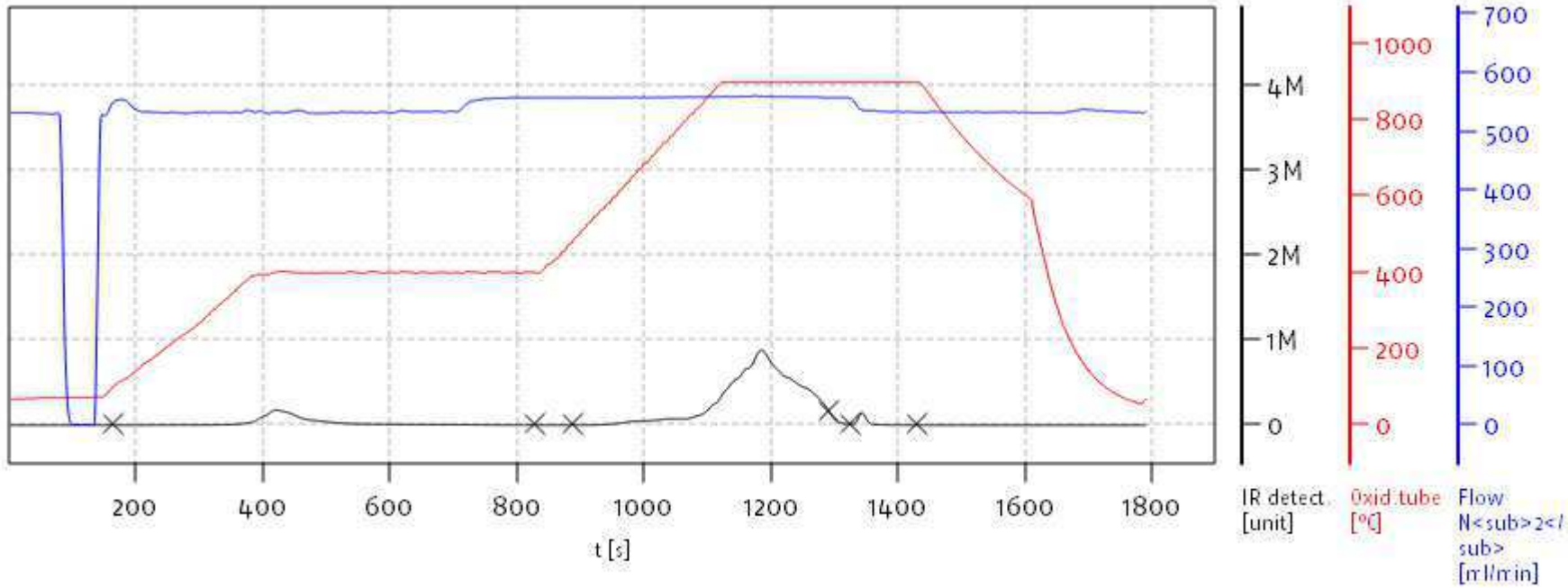
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	23D0682-07	206.90		CARBON	6/25/2023 8:12 PM	bl	0.470	596 441	3.581	0.046	88 622	4 086 899	0.424	3.111	0.9753	1.0000



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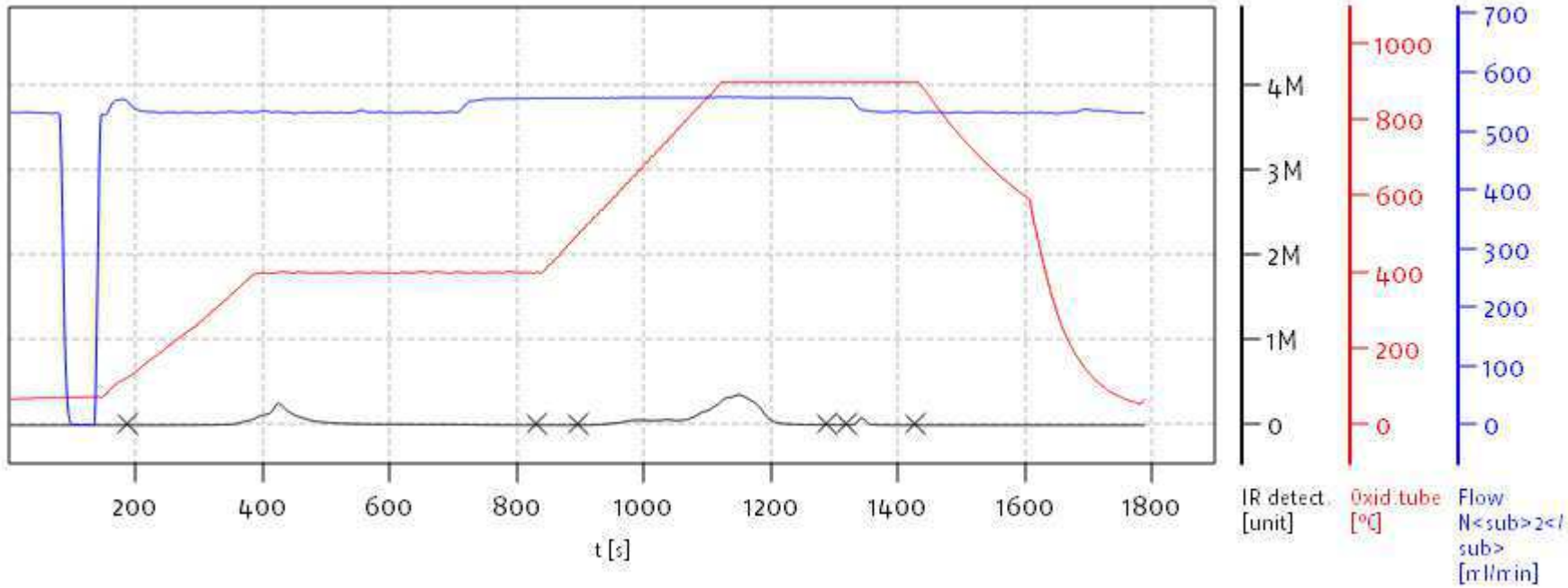
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	23D0682-08	257.30		CARBON	6/25/2023 8:42 PM	bl	0.400	673 232	1.249	0.013	49 654	1 405 602	0.387	0.849	0.9753	1.0000



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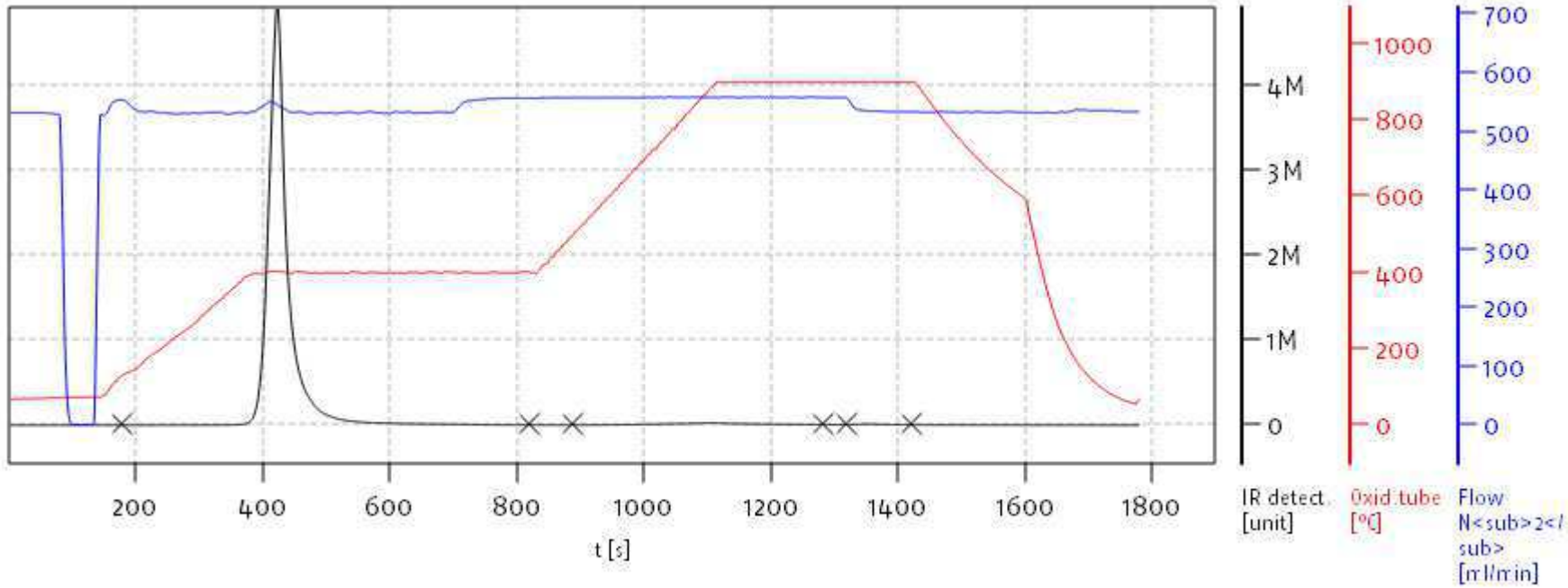
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SLF0370-CCV5	22.00		CARBON	6/25/2023 9:12 PM	bl	45.058	6 435 720	46.071	0.009	30 104	169 344	45.049	1.013	0.9753	1.0000



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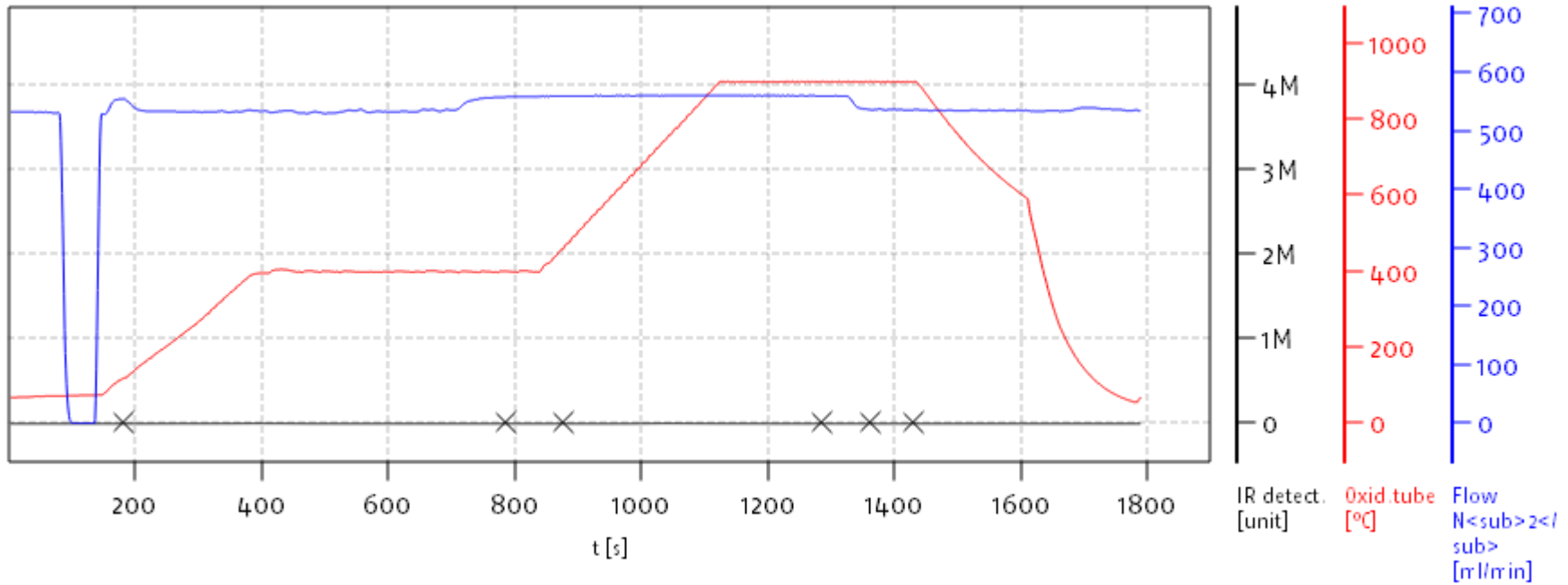
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SLF0370-CCB5	505.10		CARBON	6/25/2023 9:43 PM	bl,C1u,C3u,C2u	0.000	15 455	0.000	0.000	211	14 502	0.000	0.000	0.9753	1.0000



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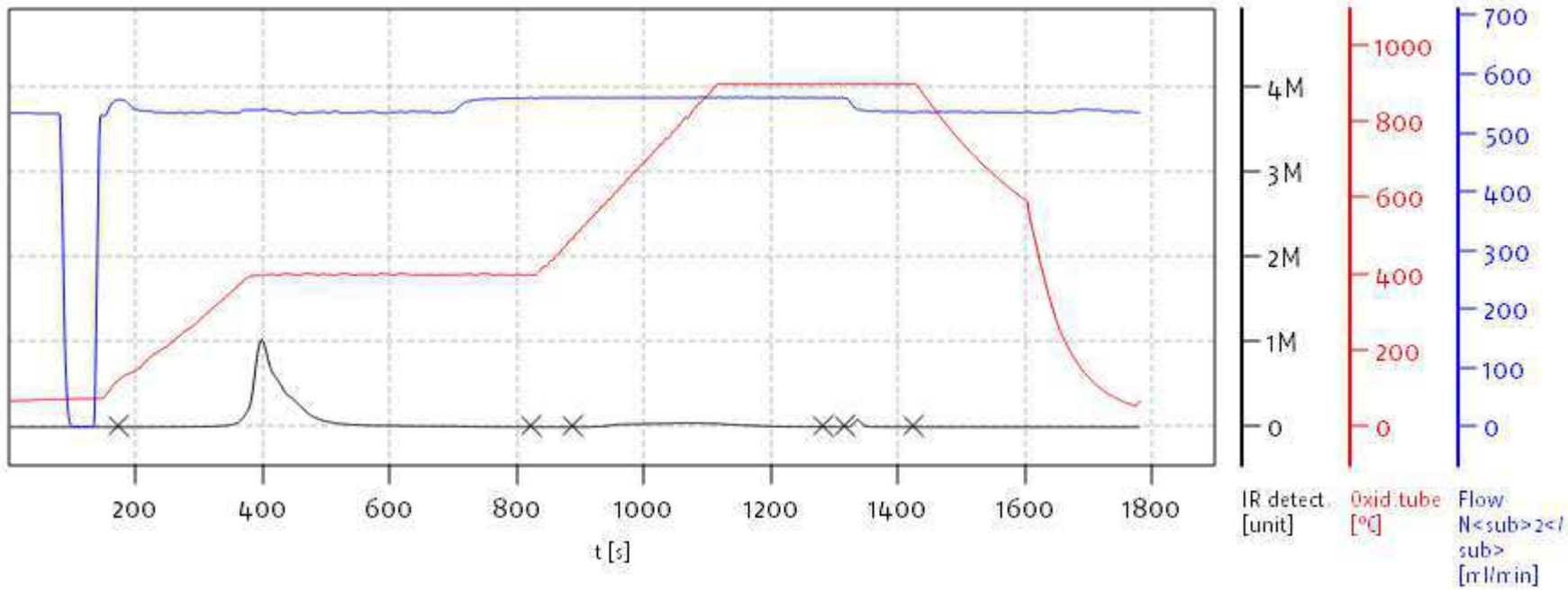
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	23E0295-06	304.70		CARBON	6/25/2023 10:13 PM	bl	1.131	2 234 868	1.300	0.011	50 287	353 383	1.120	0.169	0.9753	1.0000



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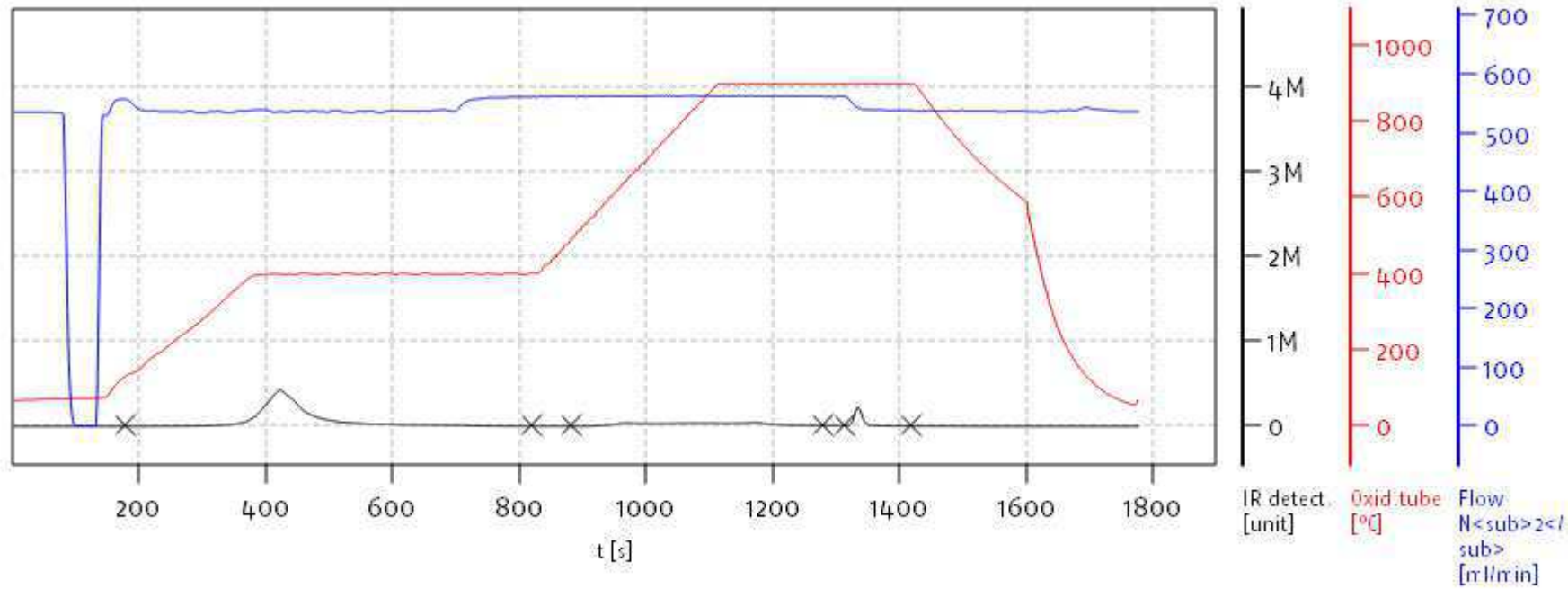
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	23E0295-07	395.20		CARBON	6/25/2023 10:43 PM	bl	0.572	1 372 902	0.718	0.046	142 302	393 824	0.526	0.146	0.9753	1.0000



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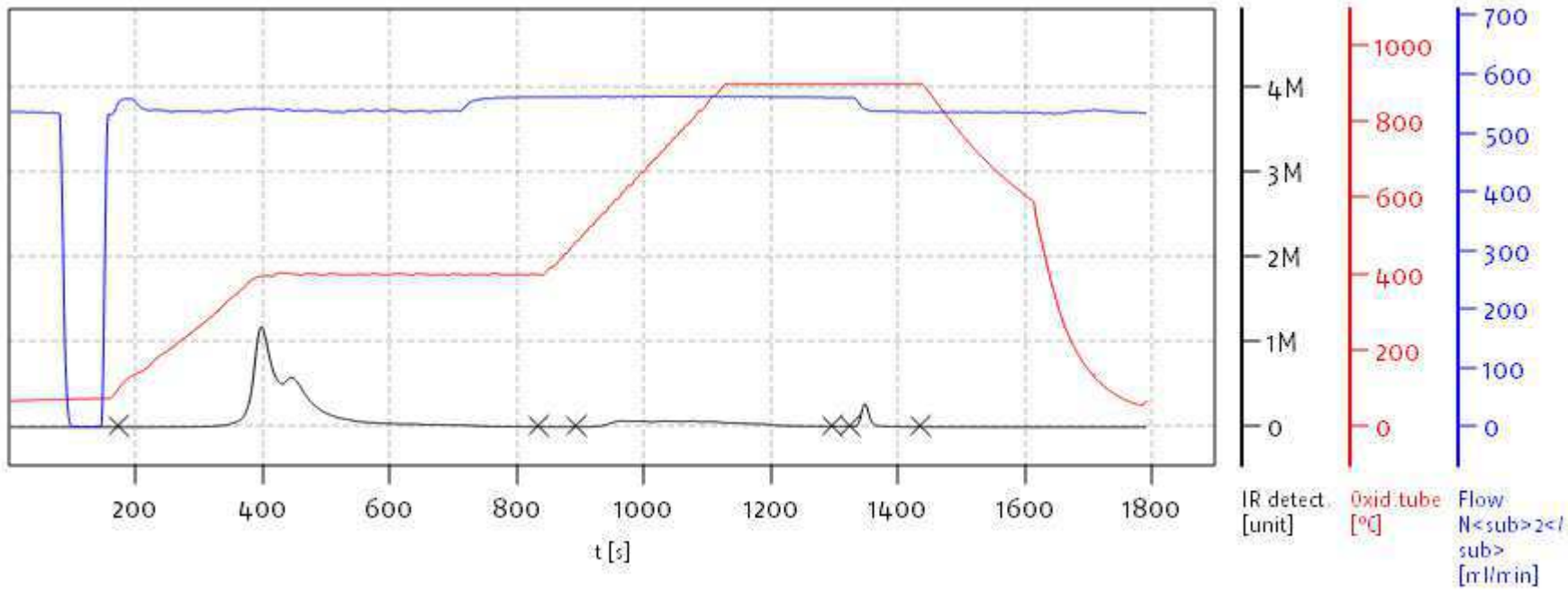
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	23E0295-08	529.60		CARBON	6/25/2023 11:13 PM	bl	0.953	3 153 944	1.131	0.040	163 133	624 024	0.913	0.178	0.9753	1.0000



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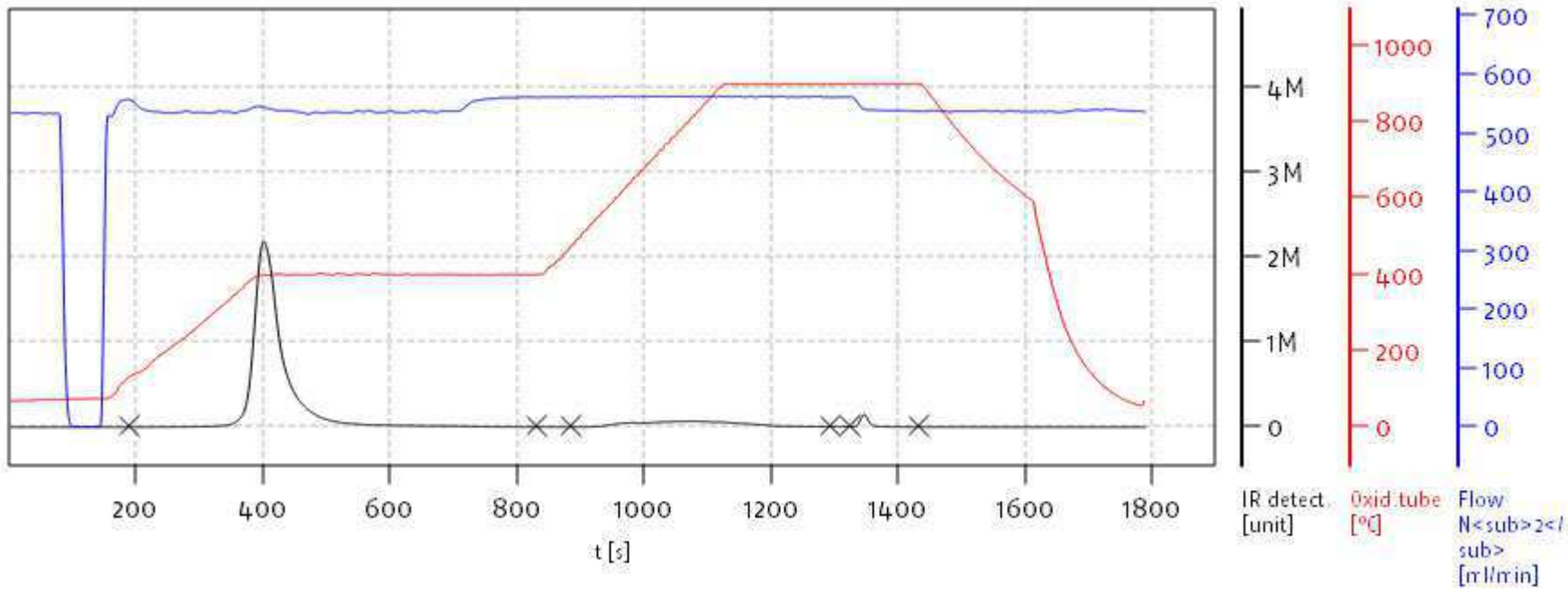
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	23E0295-10	515.30		CARBON	6/25/2023 11:43 PM	bl	1.280	4 228 600	1.434	0.019	91 326	528 439	1.261	0.154	0.9753	1.0000



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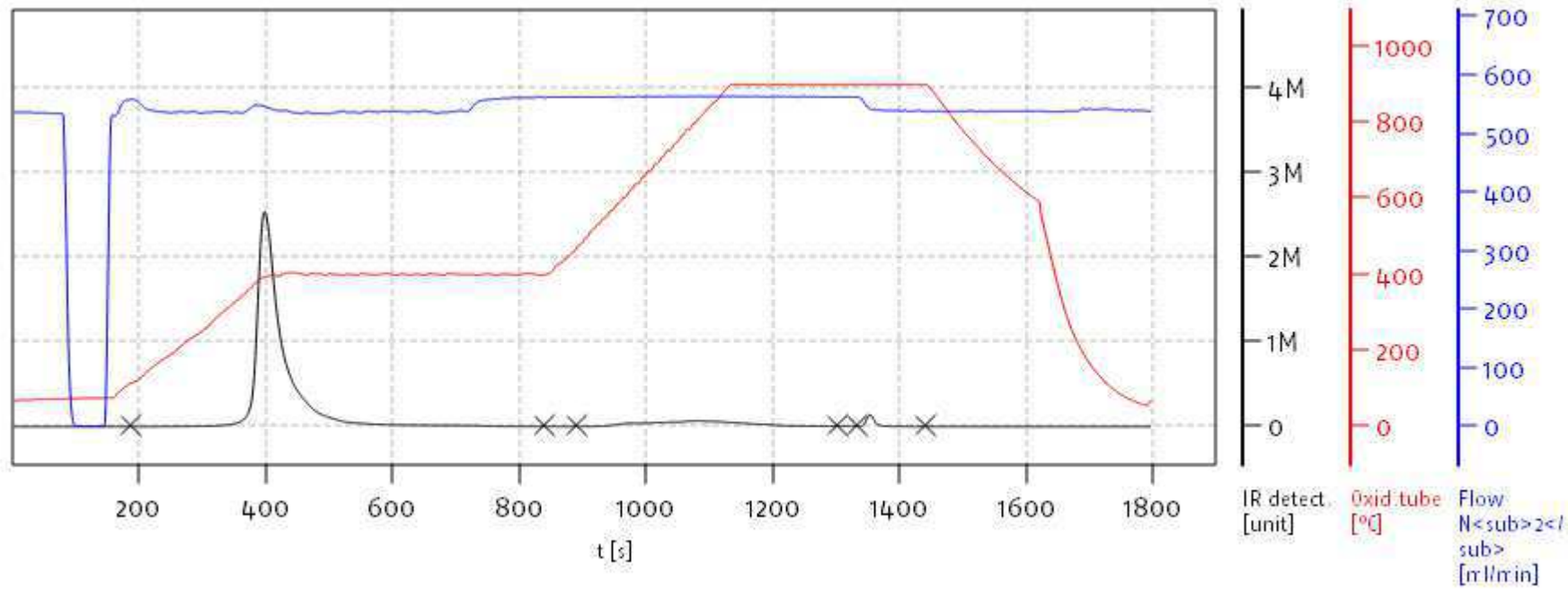
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	23E0295-11	503.60		CARBON	6/26/2023 12:14 AM	bl	1.355	4 384 475	1.496	0.017	82 082	476 902	1.338	0.141	0.9753	1.0000



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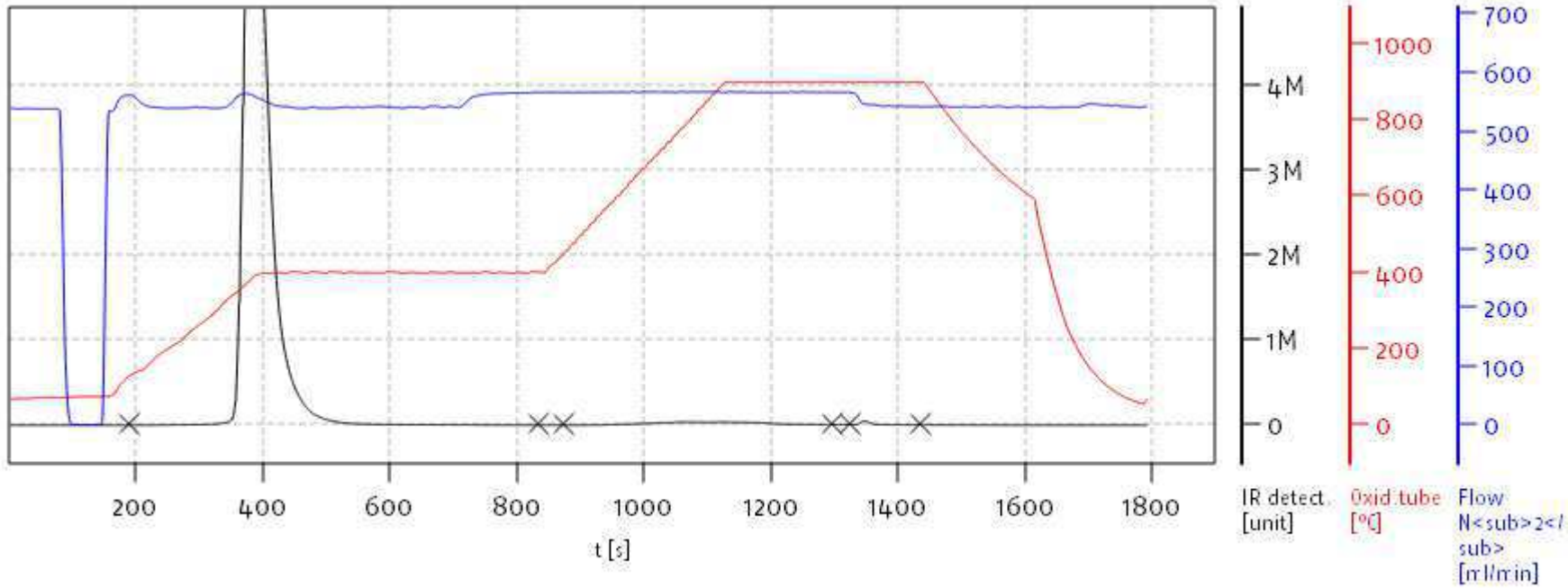
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	23E0295-12	529.50		CARBON	6/26/2023 12:44 AM	bl,C1o	3.452	11 825 340	3.533	0.005	46 962	299 550	3.446	0.081	0.9753	1.0000



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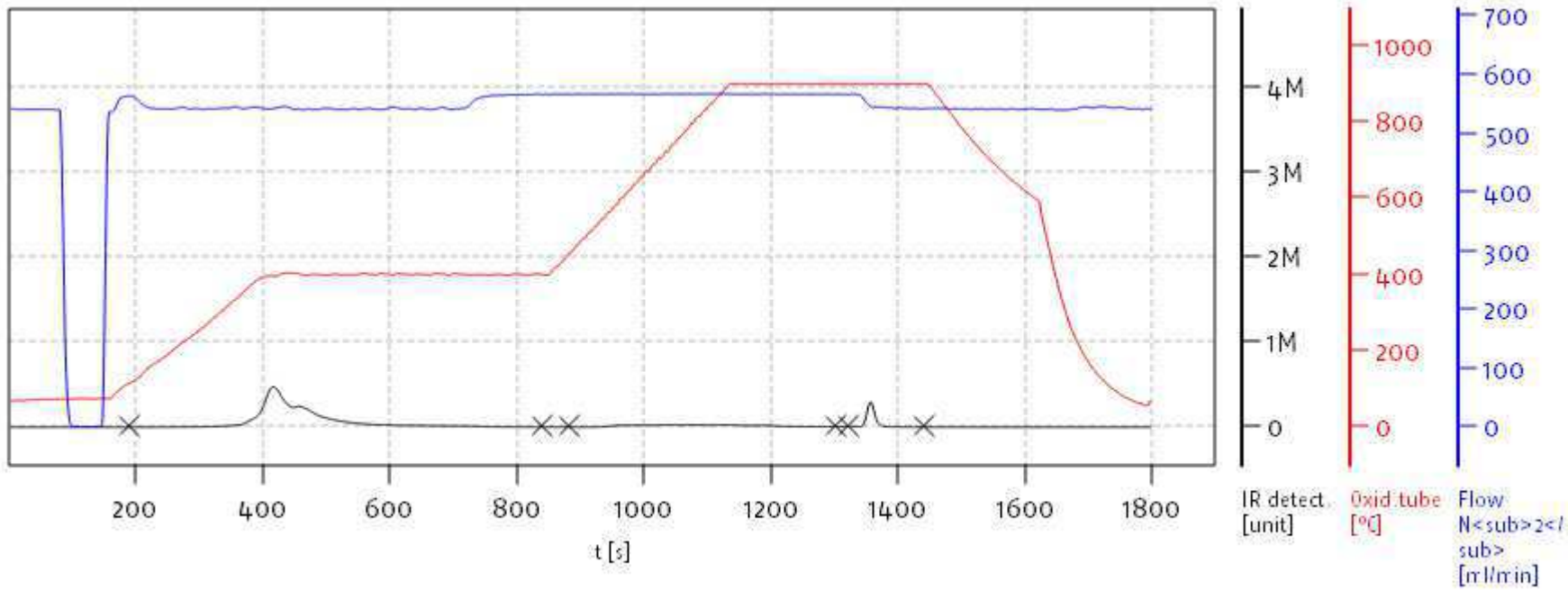
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	23E0295-13	183.80		CARBON	6/26/2023 1:14 AM	bl	1.316	1 448 155	1.505	0.121	169 447	247 641	1.195	0.189	0.9753	1.0000



Name:

Access: soliTOC superuser

Date: Mon Jun 26 10:08:08 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

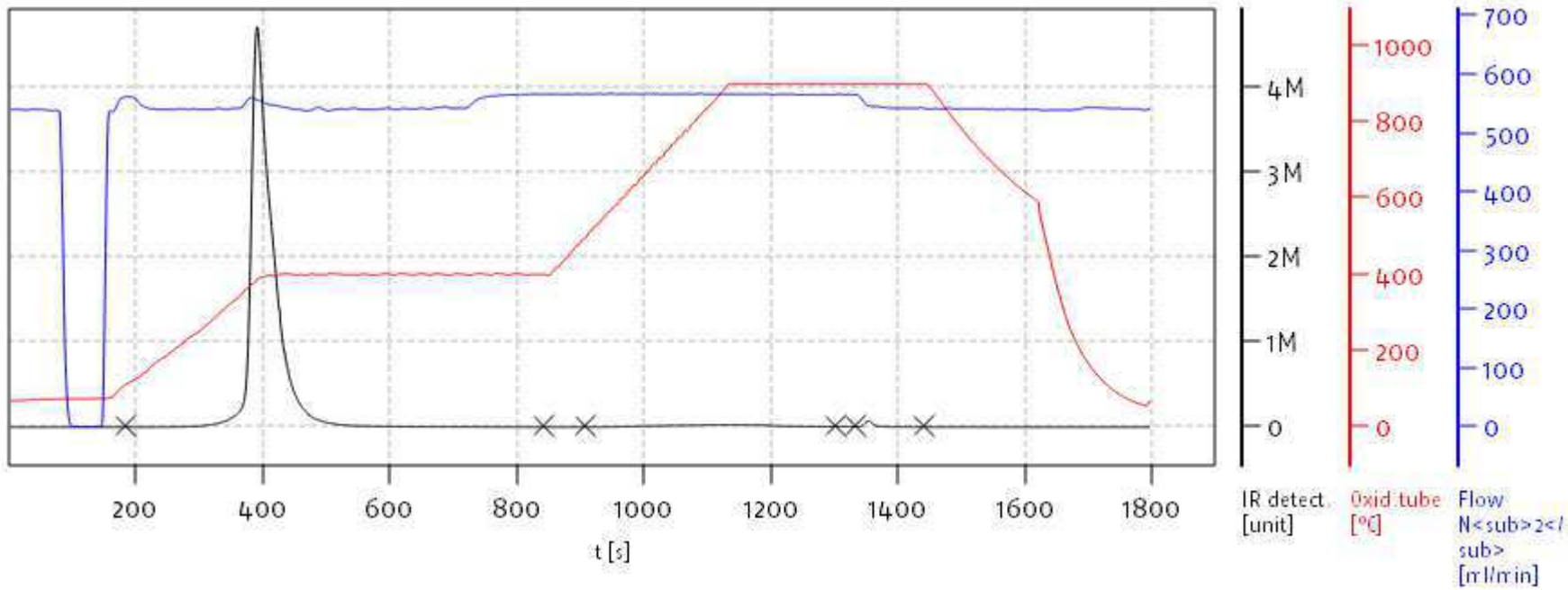
elementar
EXCELLENCE IN ELEMENTS

Document: 062423 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	23E0295-14	210.70		CARBON	6/26/2023 1:44 AM	bl	5.105	6 959 561	5.238	0.016	50 635	205 908	5.088	0.133	0.9753	1.0000



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Access: soliTOC superuser

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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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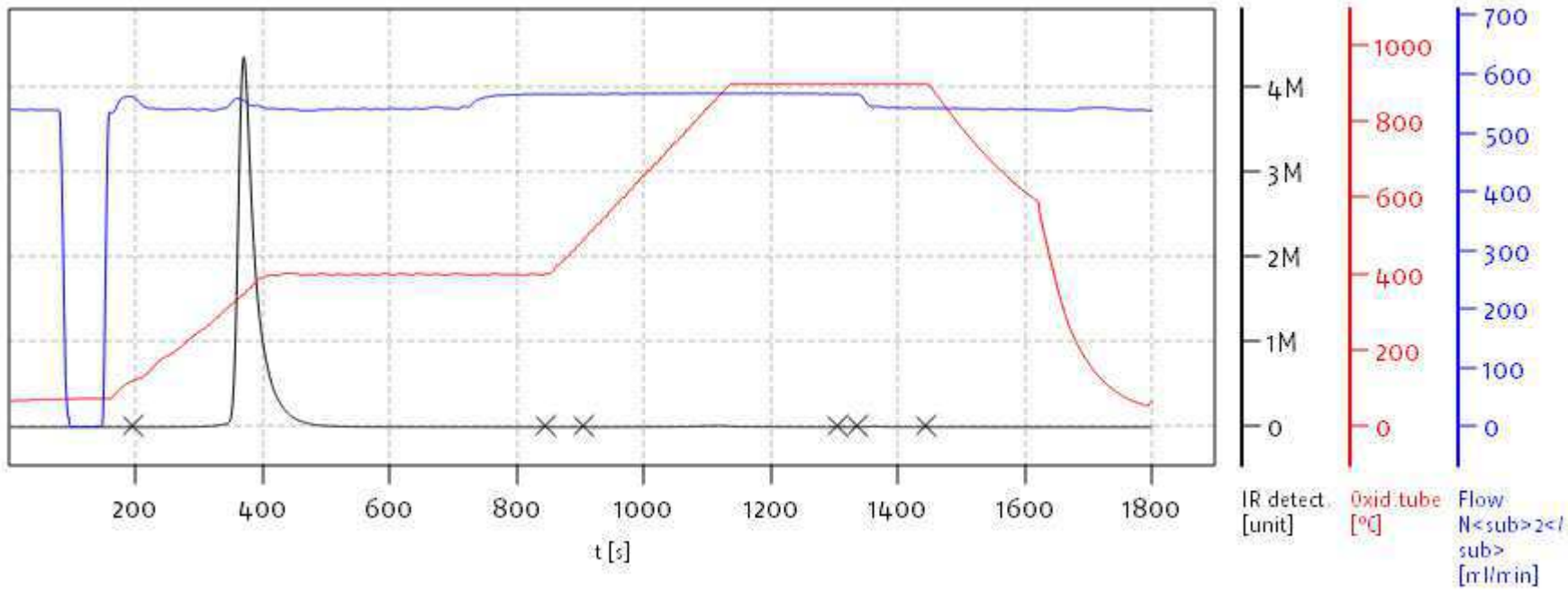
elementar
EXCELLENCE IN ELEMENTS

Document: 062423 CDE from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	23E0253-01	147.40		CARBON	6/26/2023 2:15 AM	bl,C2u	5.502	5 272 022	5.529	0.000	11 112	53 885	5.502	0.027	0.9753	1.0000



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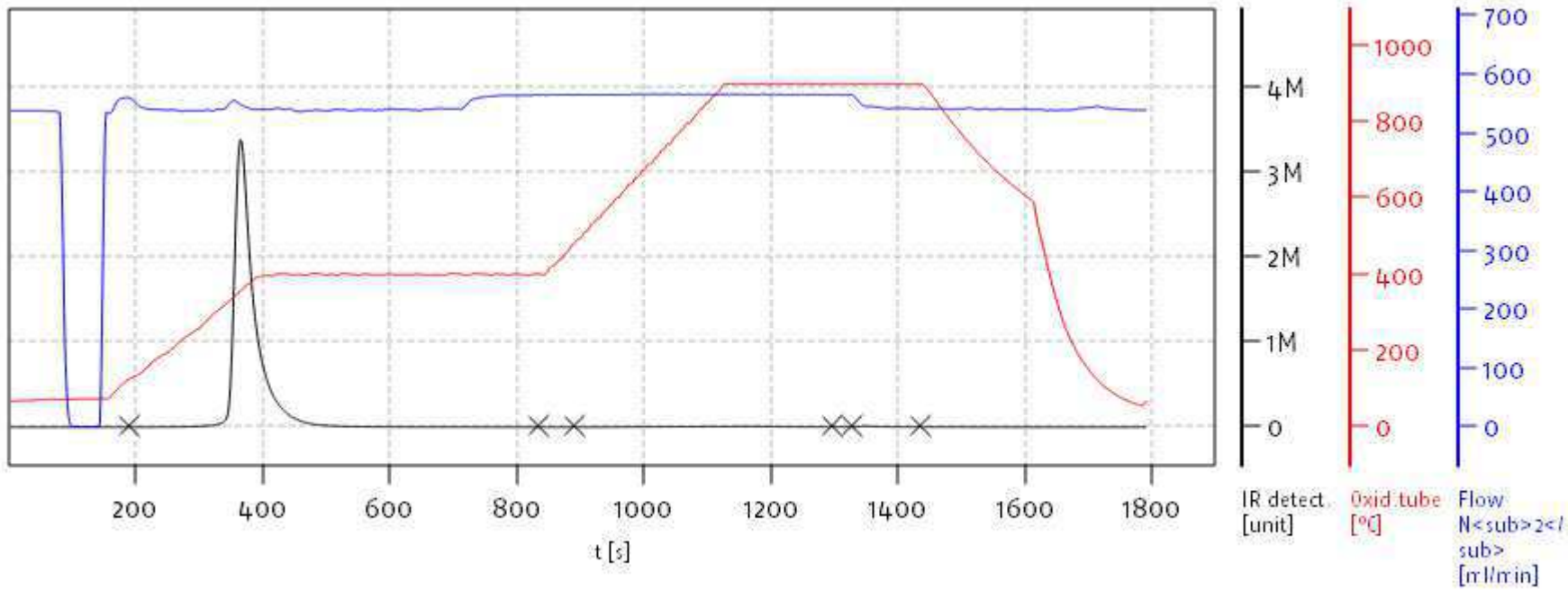
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	23E0253-02	153.30		CARBON	6/26/2023 2:45 AM	bl,C2u	4.607	4 594 303	4.649	0.000	19 045	69 581	4.607	0.042	0.9753	1.0000



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Serial No: 0300.181017
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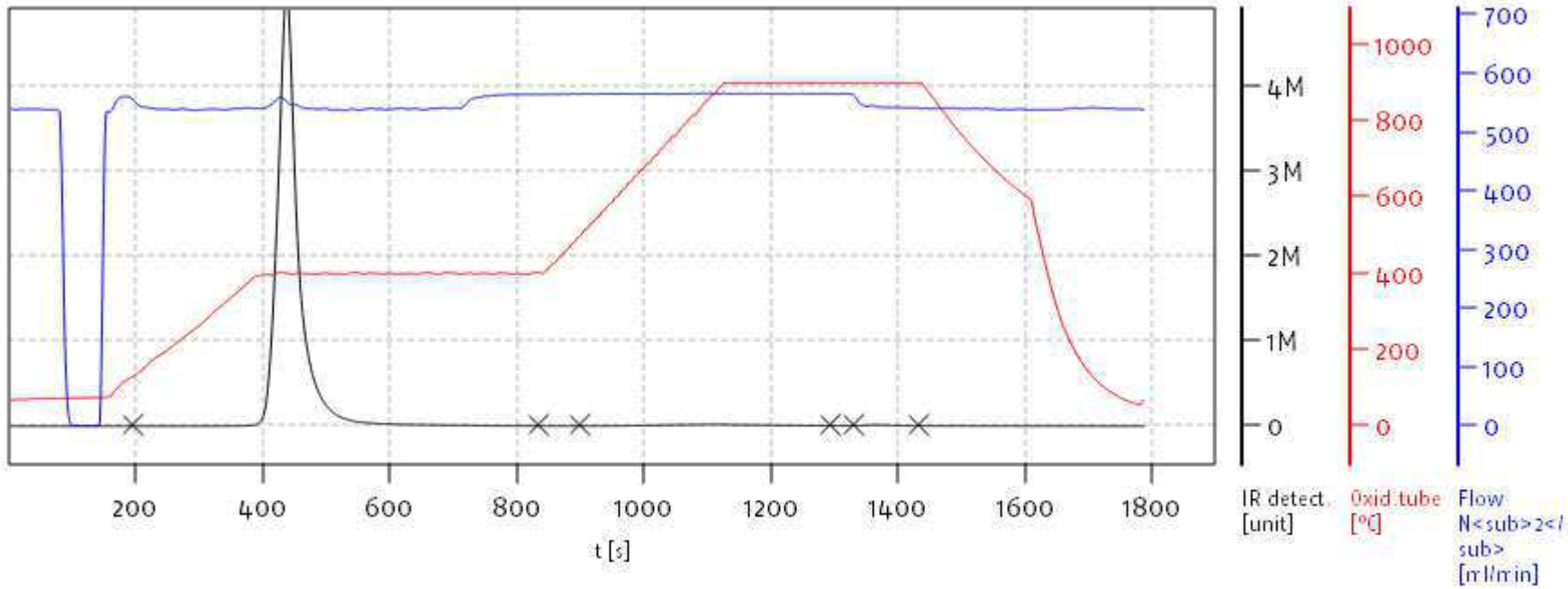
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SLF0370-CCV6	24.70		CARBON	6/26/2023 3:15 AM	bl	45.373	7 270 734	46.133	0.019	31 845	147 116	45.354	0.759	0.9753	1.0000



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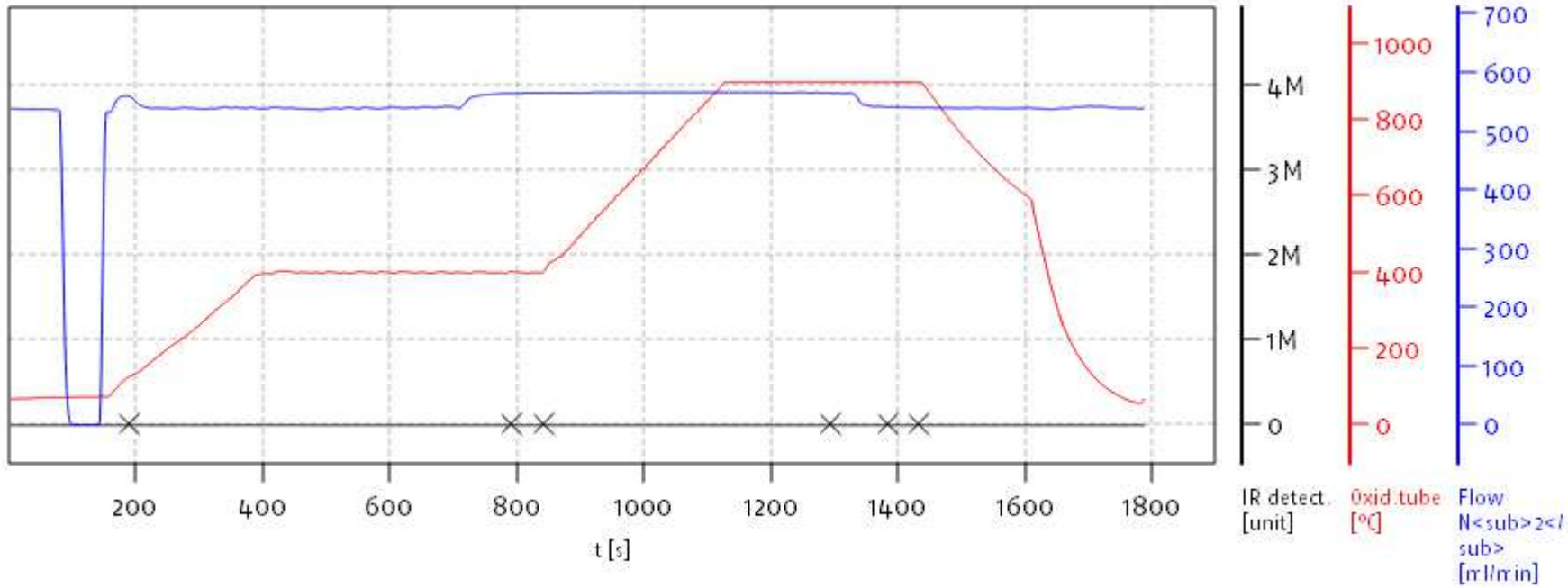
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SLF0370-CCB6	536.20		CARBON	6/26/2023 3:45 AM	bl,C1u,C3u,C2u	0.000	7 603	0.000	0.000	231	2 195	0.000	0.000	0.9753	1.0000



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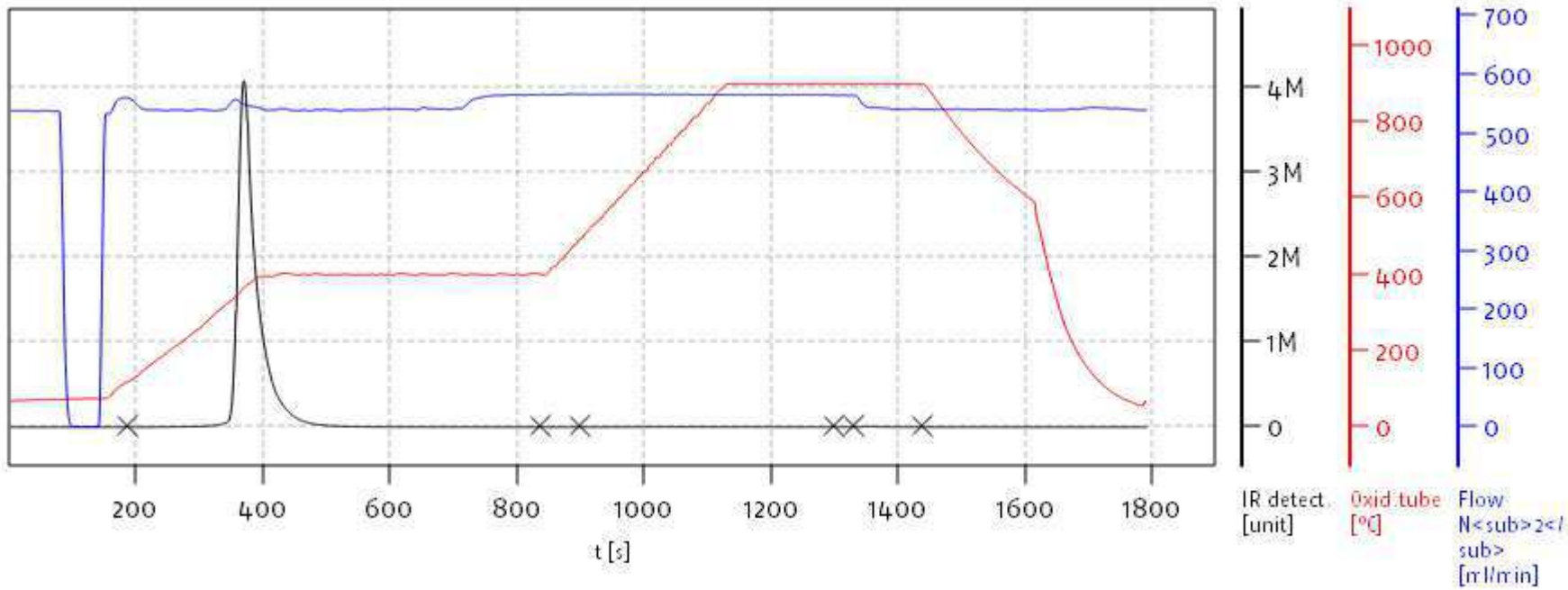
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	23E0253-03	108.50		CARBON	6/26/2023 4:16 AM	bl,C2u	7.484	5 278 340	7.484	0.000	10 153	25 913	7.484	0.000	0.9753	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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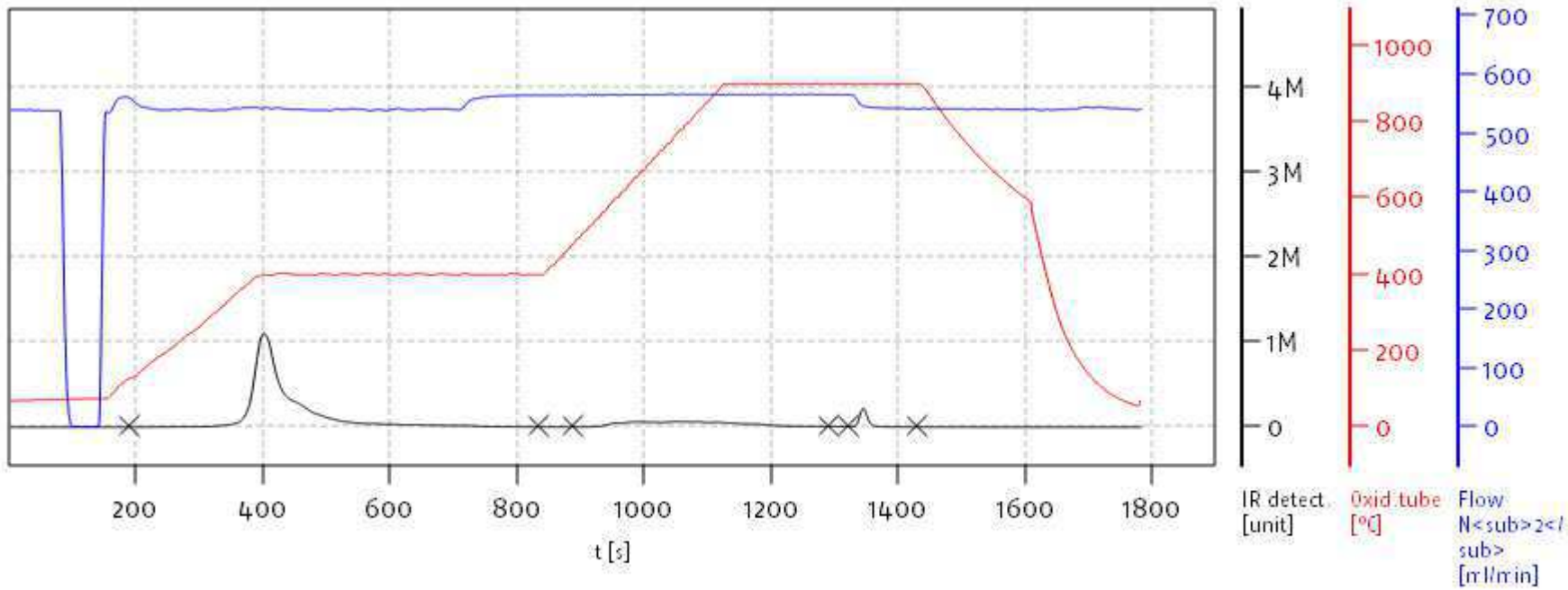
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	23E0295-09	439.30		CARBON	6/26/2023 4:46 AM	bl	0.938	2 593 163	1.125	0.035	127 094	546 147	0.903	0.187	0.9753	1.0000



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Date: Mon Jun 26 10:08:08 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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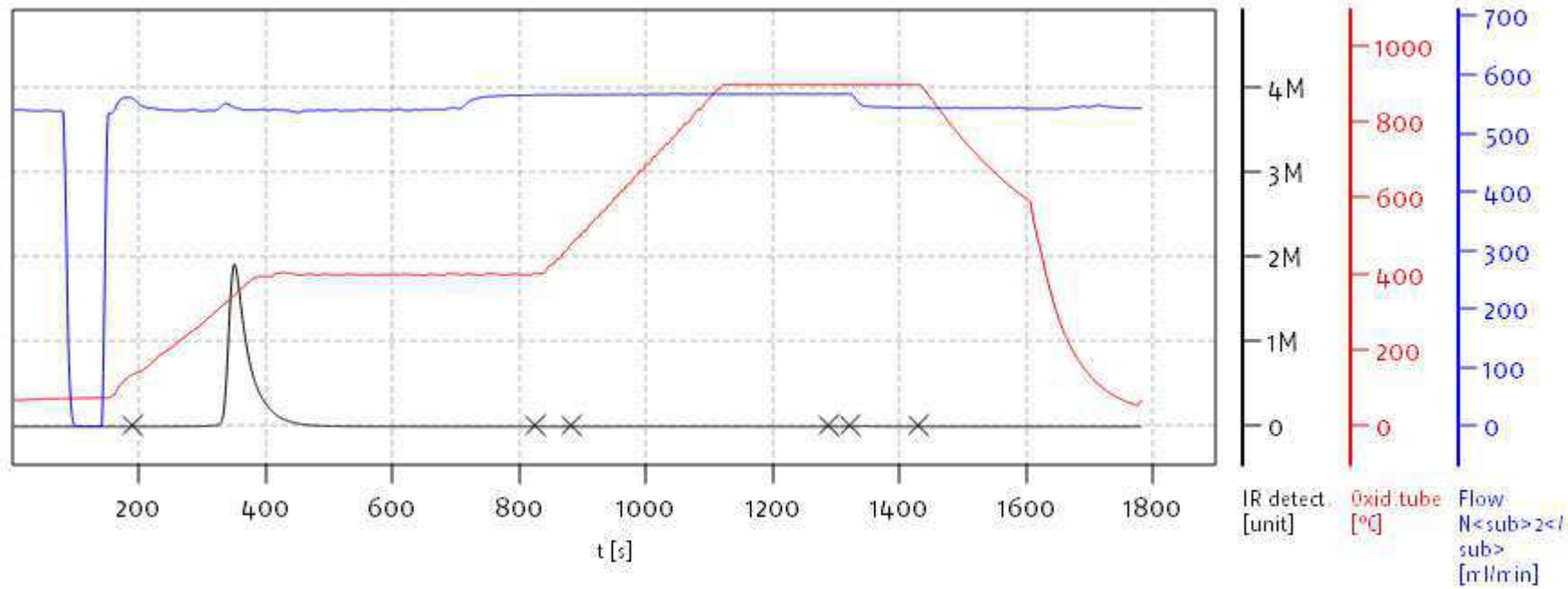
EXCELLENCE IN ELEMENTS

Document: 062423 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	23F0027-03RE1	52.30		CARBON	6/26/2023 5:16 AM	bl,C3u,C2u	7.837	2 678 346	7.837	0.000	5 326	11 035	7.837	0.000	0.9753	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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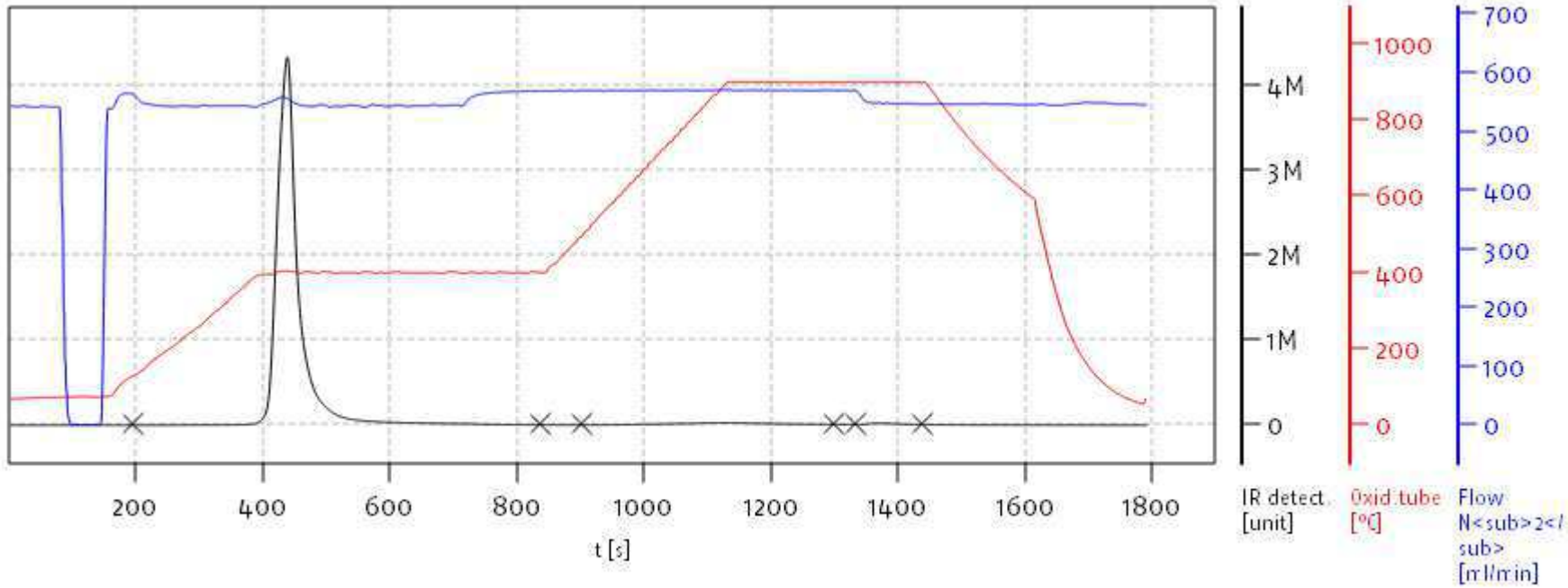
Document: 062423 CDE from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	SLF0370-CCV7	21.90		CARBON	6/26/2023 5:46 AM	bl	44.293	6 274 575	45.635	0.176	53 210	214 124	44.117	1.342	0.9753	1.0000



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Date: Mon Jun 26 10:08:08 2023

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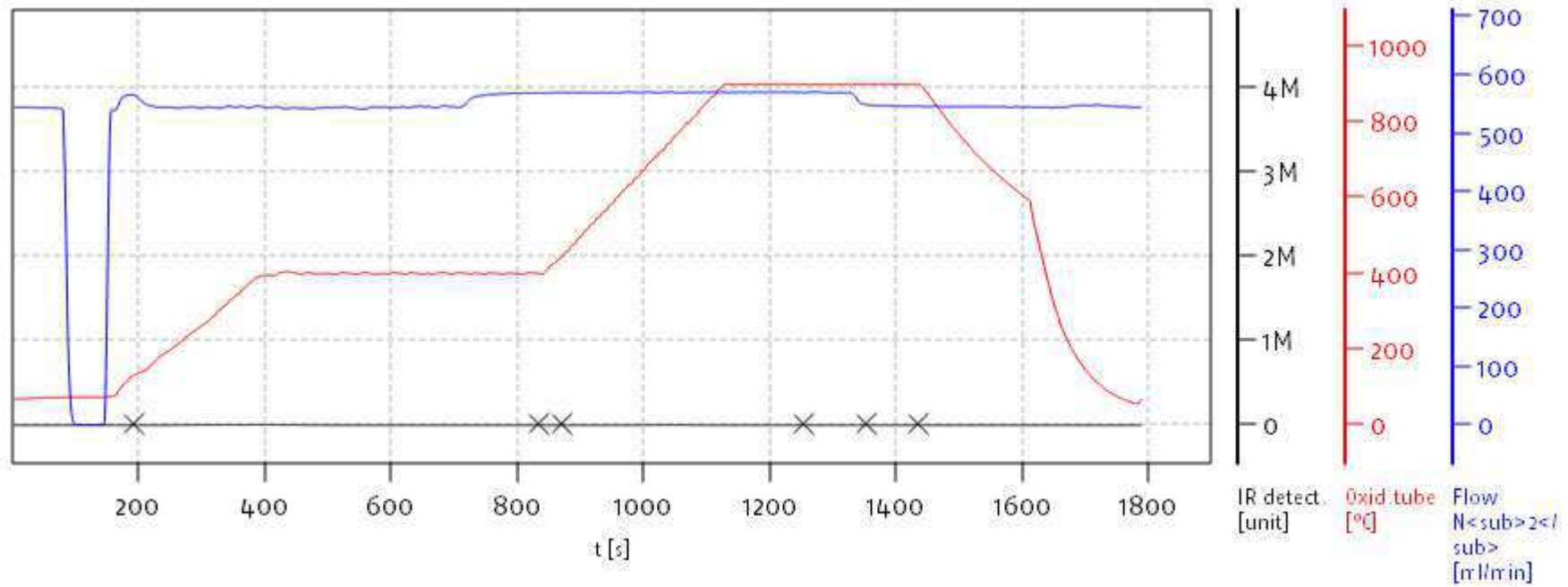
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	SLF0370-CCB7	542.80		CARBON	6/26/2023 6:16 AM	bl,C3u,C2u	0.000	28 886	0.000	0.000	54	8 350	0.000	0.000	0.9753	1.0000



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Date: Mon Jun 26 10:08:08 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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elementar
EXCELLENCE IN ELEMENTS

Document: 062423 CDE from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00052	Instrument:	TOC Cube
Calibration Date:	05/17/2023 10:07		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782
Total Carbon	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782
Total Inorganic Carbon	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782
% Soot	0.0081413	2824365	0.015378	1908831	0.02171	2161539	0.030153	2354094	0.04523	1647690	0.060306	1529782

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00052
Instrument: TOC Cube
Calibration Date: 05/17/2023 10:07

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209
Total Carbon	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209
Total Inorganic Carbon	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209
% Soot	0.075081	1526165	0.092268	1411324	0.12031	1696235	0.15107	1646548	0.24	1507392	0.306	1652209

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00052
Instrument: TOC Cube
Calibration Date: 05/17/2023 10:07

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100
Total Carbon	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100
Total Inorganic Carbon	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100
% Soot	0.426	1366392	0.606	1382589	0.894	1387318	1.206	1393572	1.506	1392225	1.806	1387100

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00052	Instrument:	TOC Cube
Calibration Date:	05/17/2023 10:07		

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654
Total Carbon	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654
Total Inorganic Carbon	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654
% Soot	2.406	1383080	2.988	1392309	4.206	1321832	4.788	1266559	5.394	1264318	7.152	1292654

INITIAL CALIBRATION DATA

EPA 9060A m

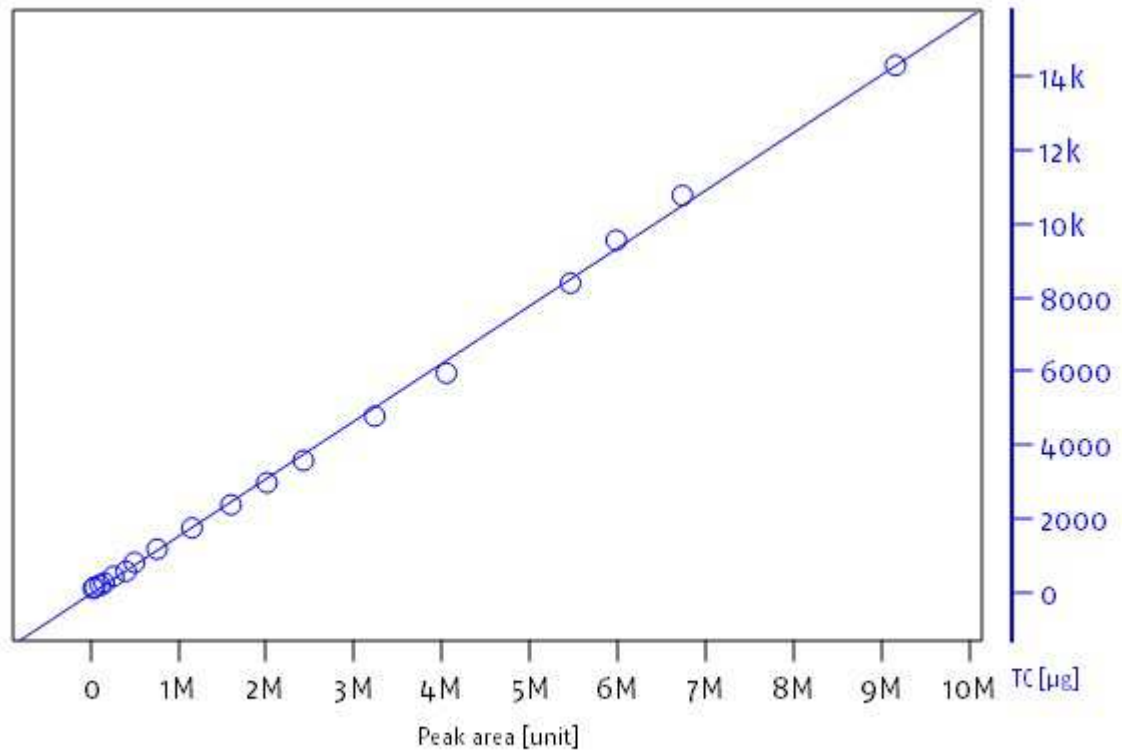
Laboratory:	Analytical Resources, LLC	SDG:	23D0136
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00052	Instrument:	TOC Cube
Calibration Date:	05/17/2023 10:07		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1587338	23.9	0.9987			
Total Carbon	1587338	23.9	0.9987			
Total Inorganic Carbon	1587338	23.9	0.9987			
% Soot	1587338	23.9	0.9987			

Calibration parameters TC, Whole range

a	+9.122373e-03
b	+1.560792e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998690
r_old	0.998690
Proc.-SD	155.562438 µg

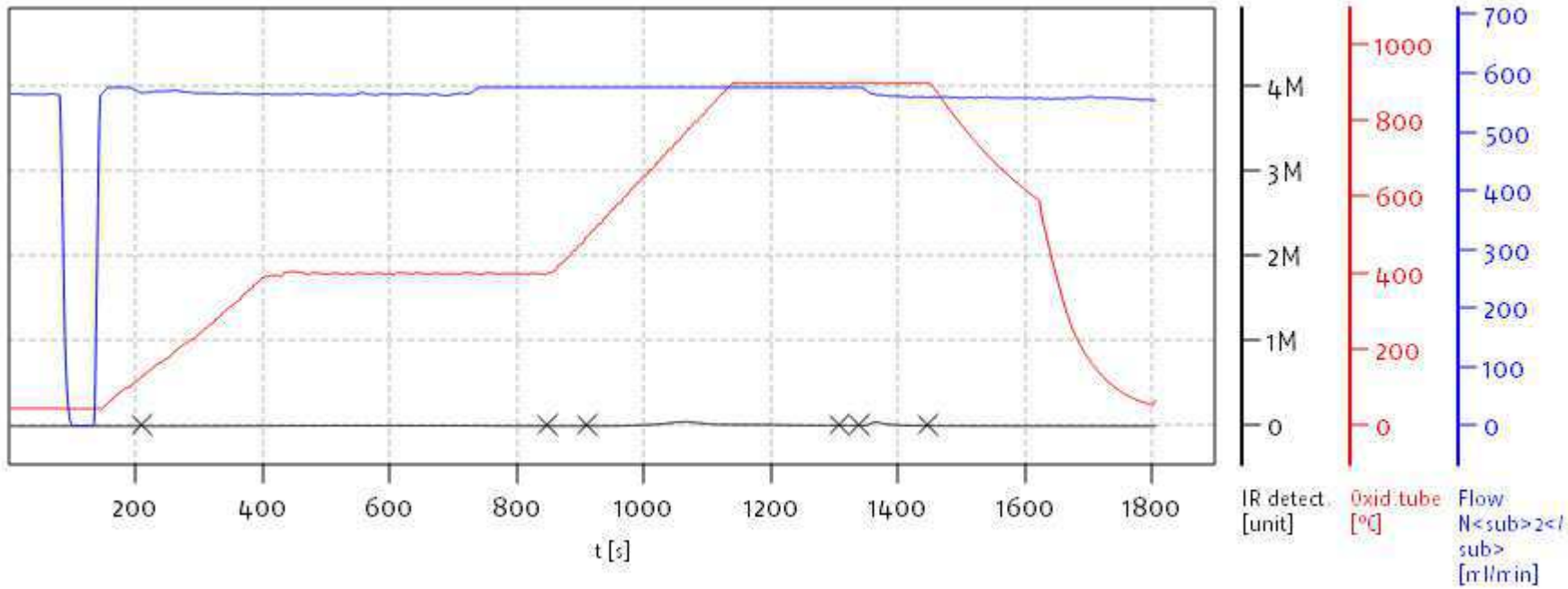
Calibration graph TC, Whole range



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	5/ 17/2023 11:46 AM	bl	0.000	83 718	0.000	0.000	65 731	251 400	0.000	0.000	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

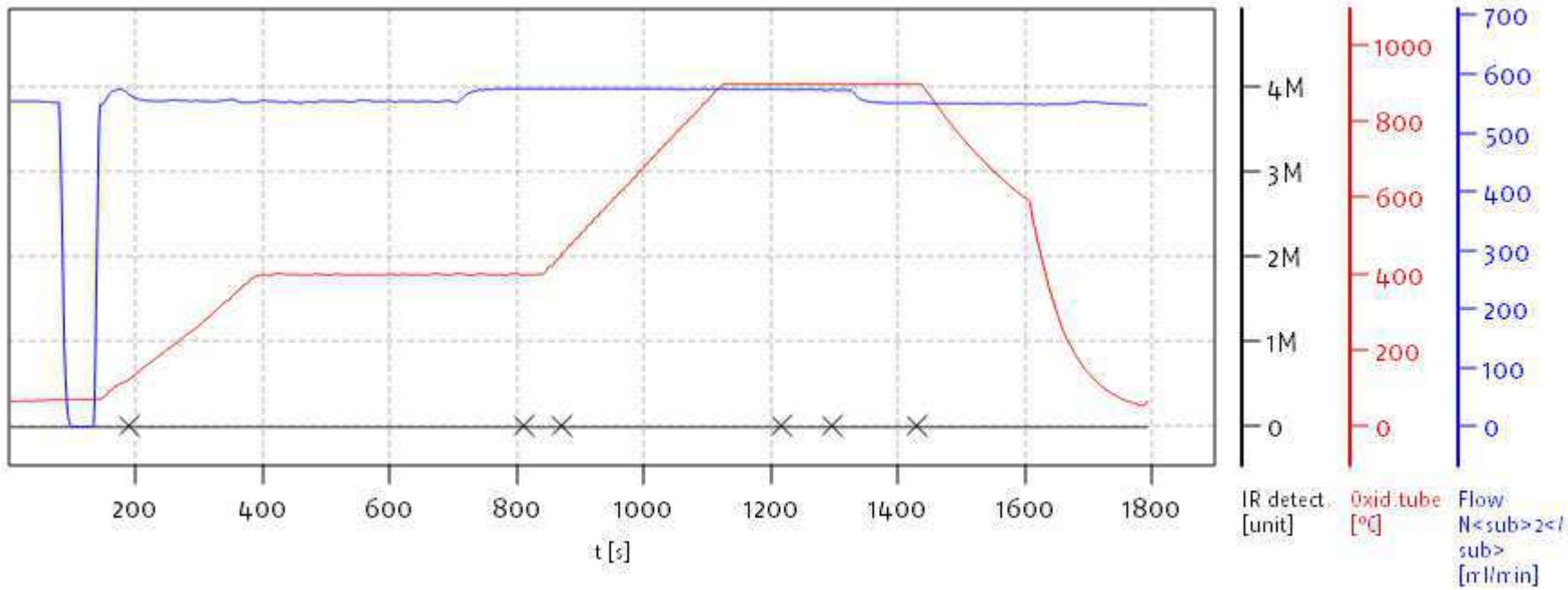
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		CARBON	5/ 17/2023 12:16 PM	bl	0.000	3 043	0.000	0.000	273	1	0.000	0.000	1.0000	1.0000



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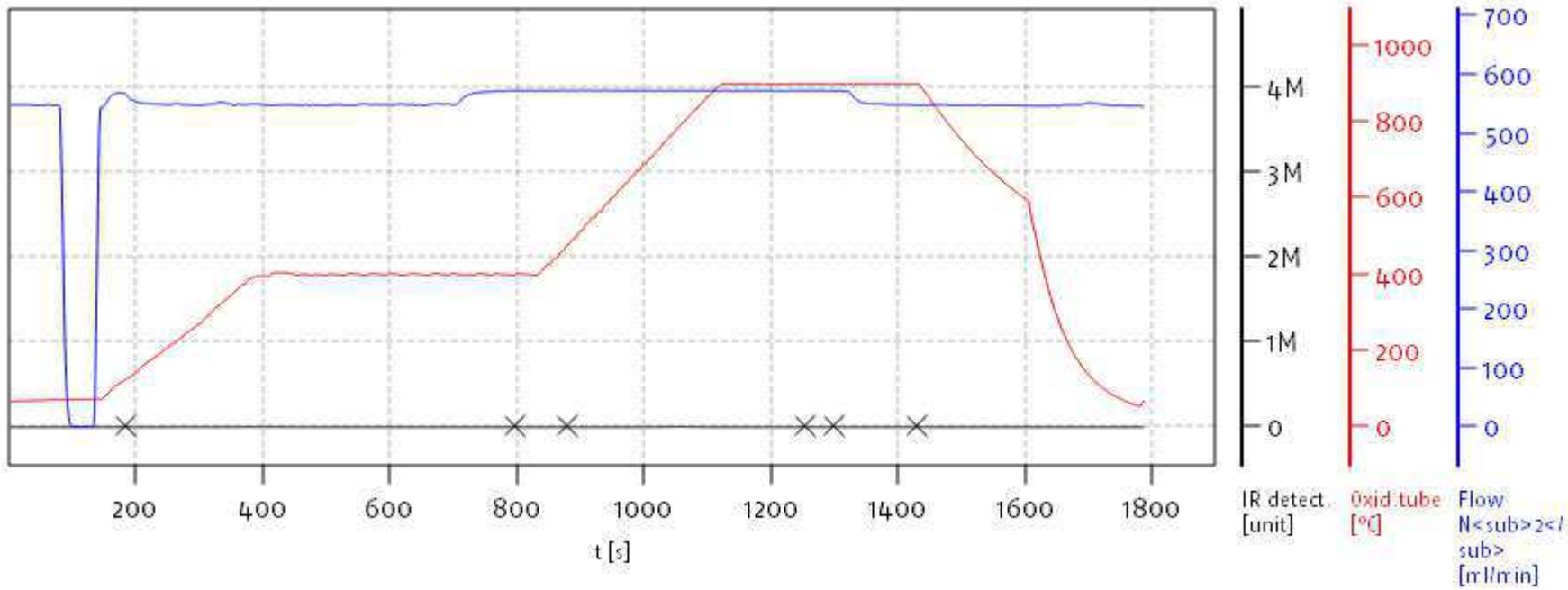
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	SLE0270-CAL1	200.00	0.0025	CARBON	5/17/2023 12:46 PM	bl,C2u	0.014	12 167	0.024	0.002	431	10 396	0.012	0.010	1.0000	1.0000



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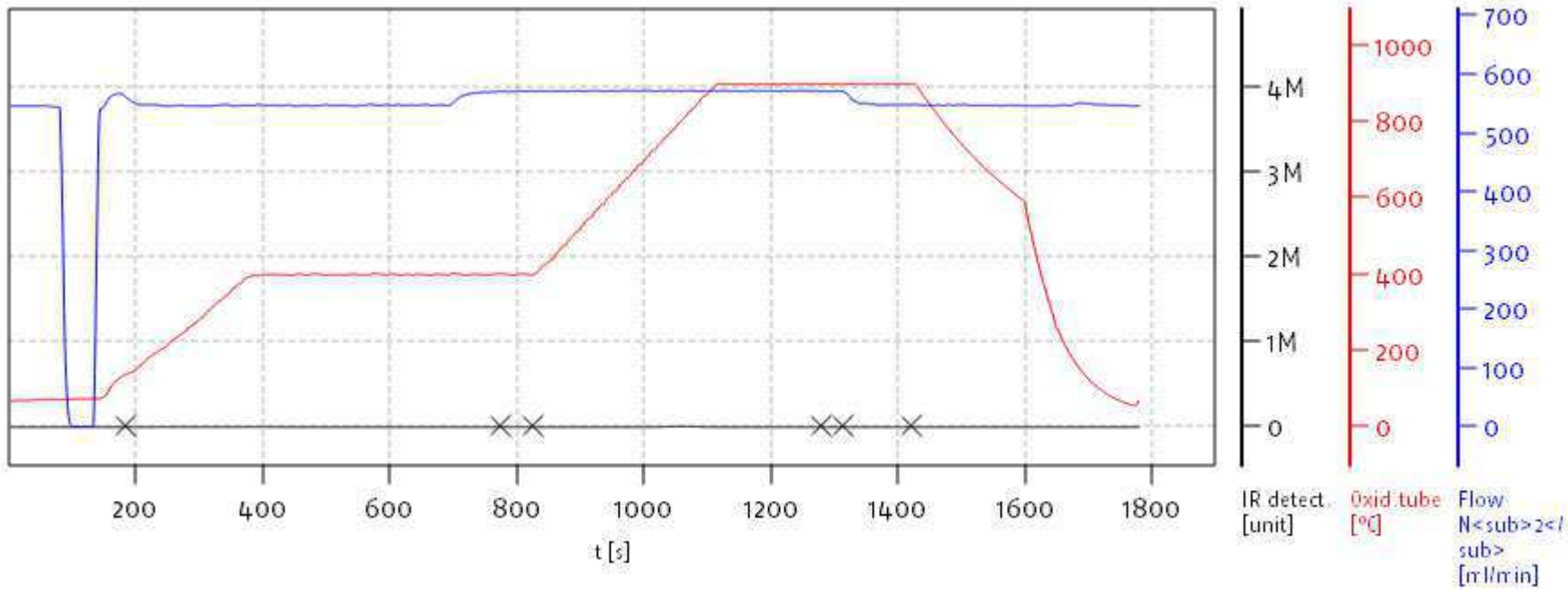
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLE0270-CAL2	200.00	0.0050	CARBON	5/17/2023 1:16 PM	bl,C2u	0.013	10 893	0.029	0.002	141	18 320	0.011	0.017	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

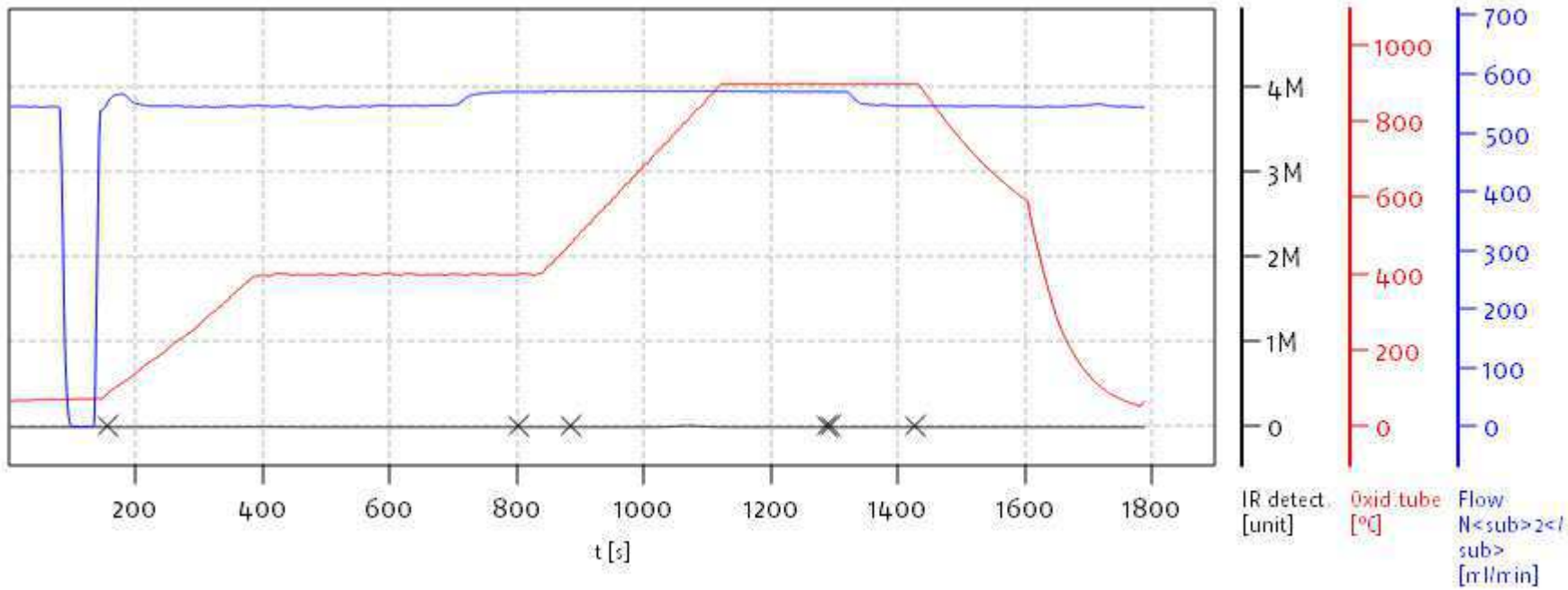
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLE0270-CAL3	200.00	0.0070	CARBON	5/17/2023 1:46 PM	bl,C2u	0.018	16 667	0.043	0.002	387	29 873	0.015	0.026	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

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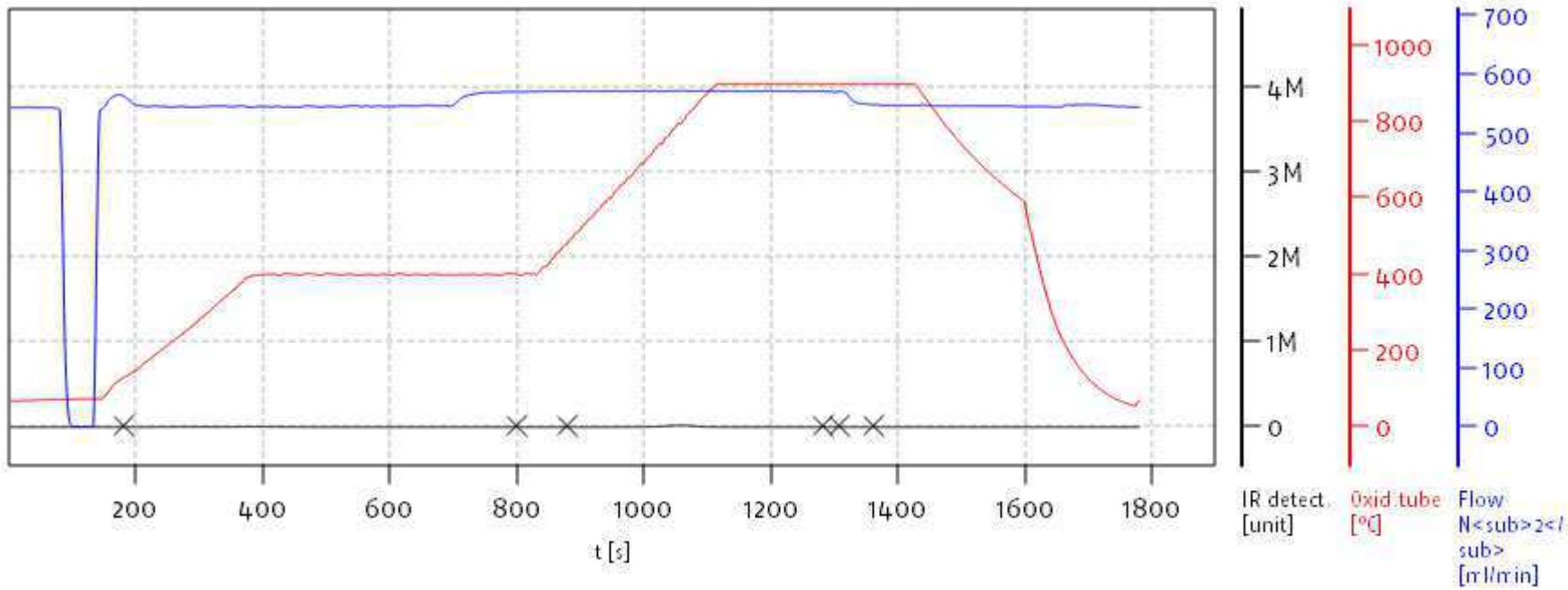
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	SLE0270-CAL4	200.00	0.0100	CARBON	5/17/2023 2:16 PM	bl,C2u	0.024	24 980	0.062	0.002	130	45 873	0.022	0.038	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

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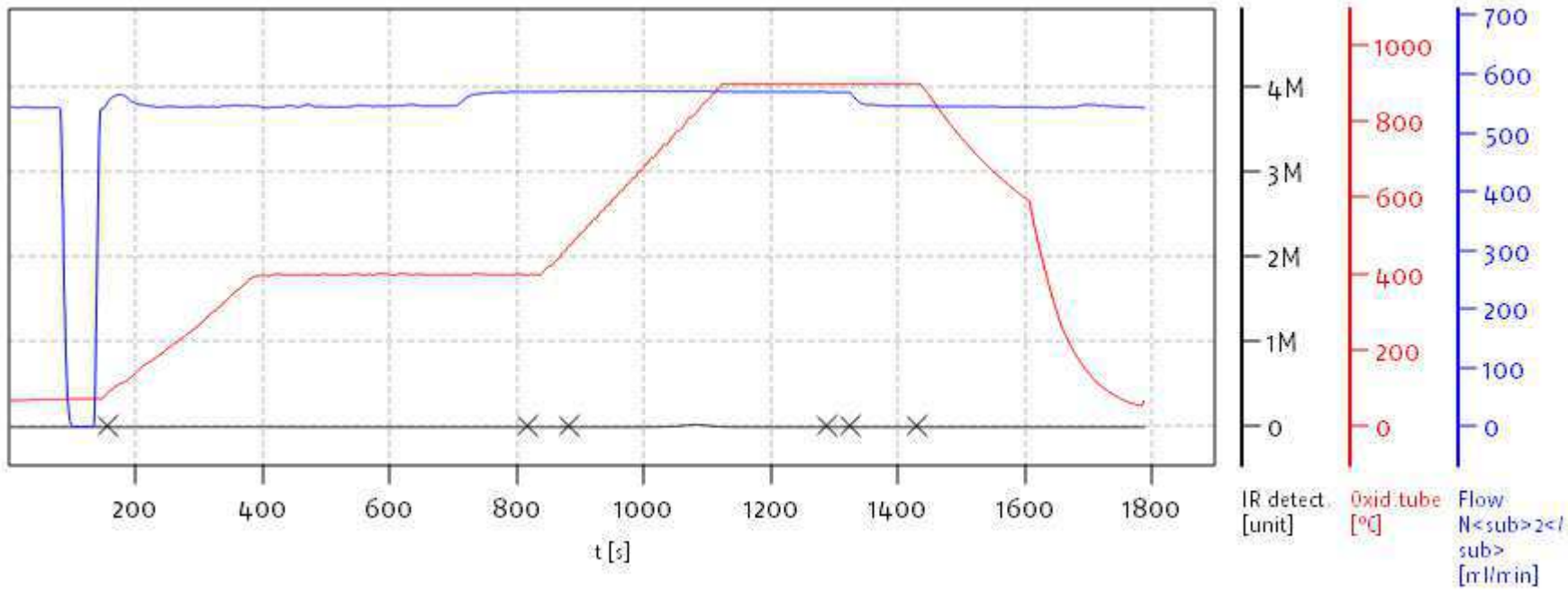
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	SLE0270-CAL5	200.00	0.0150	CARBON	5/17/2023 2:47 PM	bl,C2u	0.014	12 413	0.065	0.002	539	61 573	0.012	0.051	1.0000	1.0000



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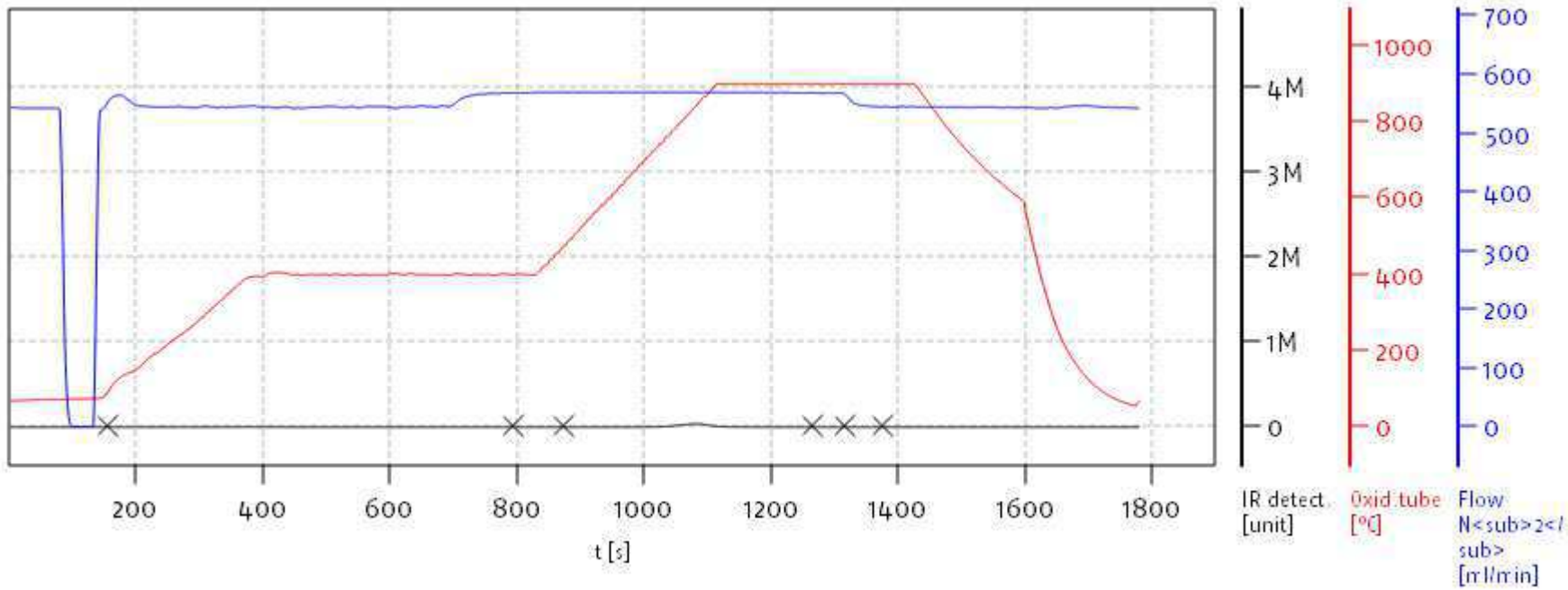
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	SLE0270-CAL6	200.00	0.0200	CARBON	5/17/2023 3:17 PM	bl,C1u,C2u	0.011	7 999	0.079	0.002	170	84 086	0.008	0.068	1.0000	1.0000



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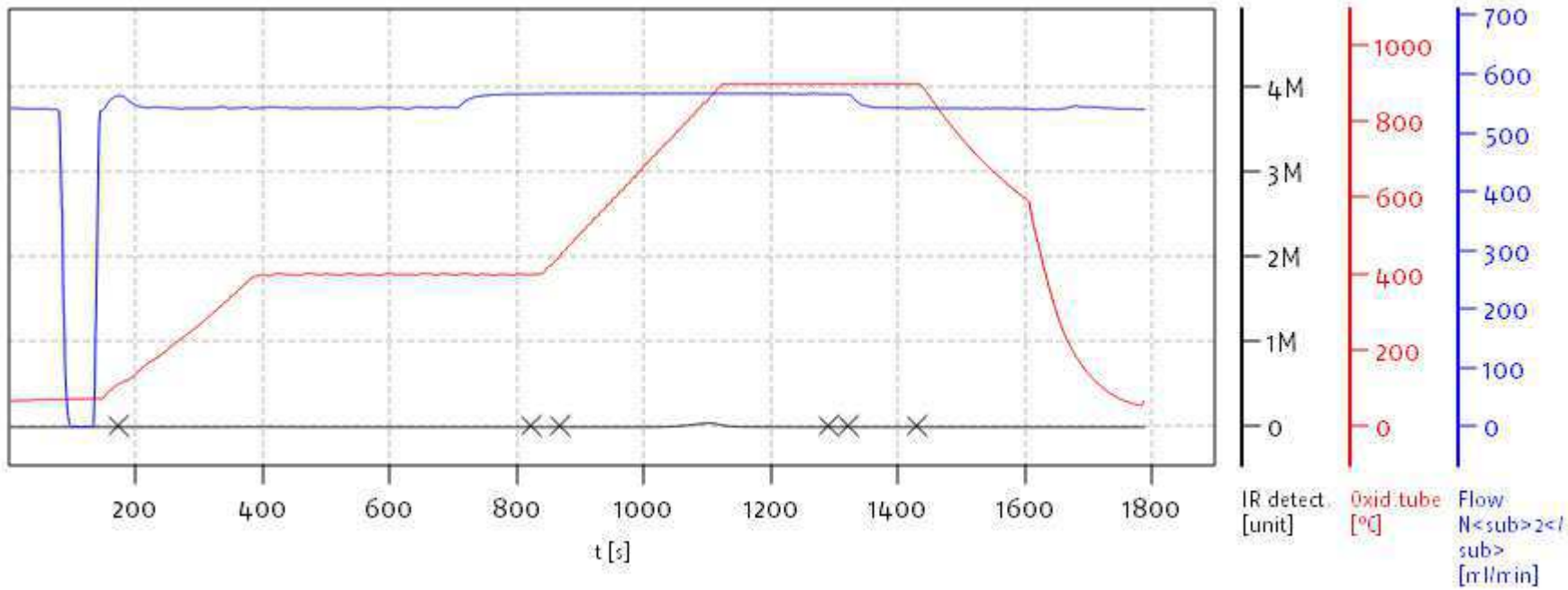
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	SLE0270-CAL7	200.00	0.0250	CARBON	5/17/2023 3:47 PM	bl,C1u,C2u	0.011	7 612	0.097	0.003	1 386	105 588	0.008	0.085	1.0000	1.0000



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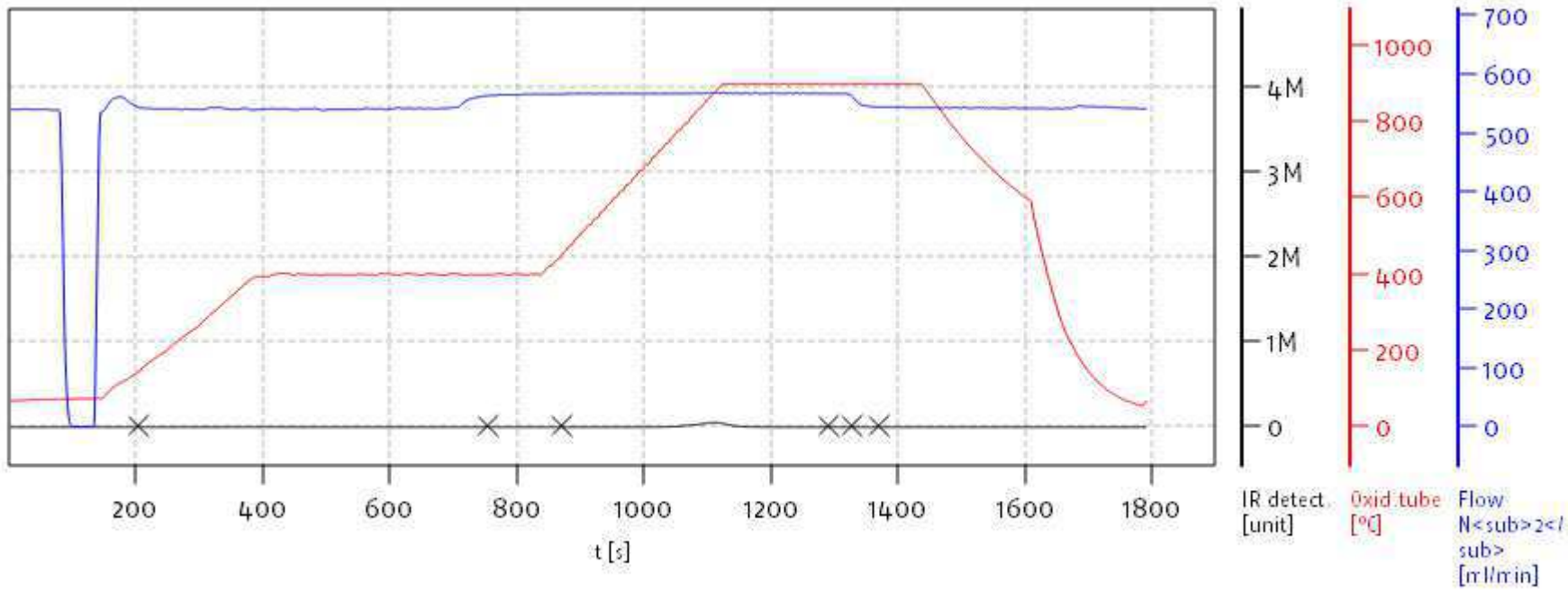
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	SLE0270-CAL8	200.00	0.0300	CARBON	5/17/2023 4:17 PM	bl,C1u,C2u	0.008	5 428	0.109	0.002	61	124 731	0.006	0.100	1.0000	1.0000



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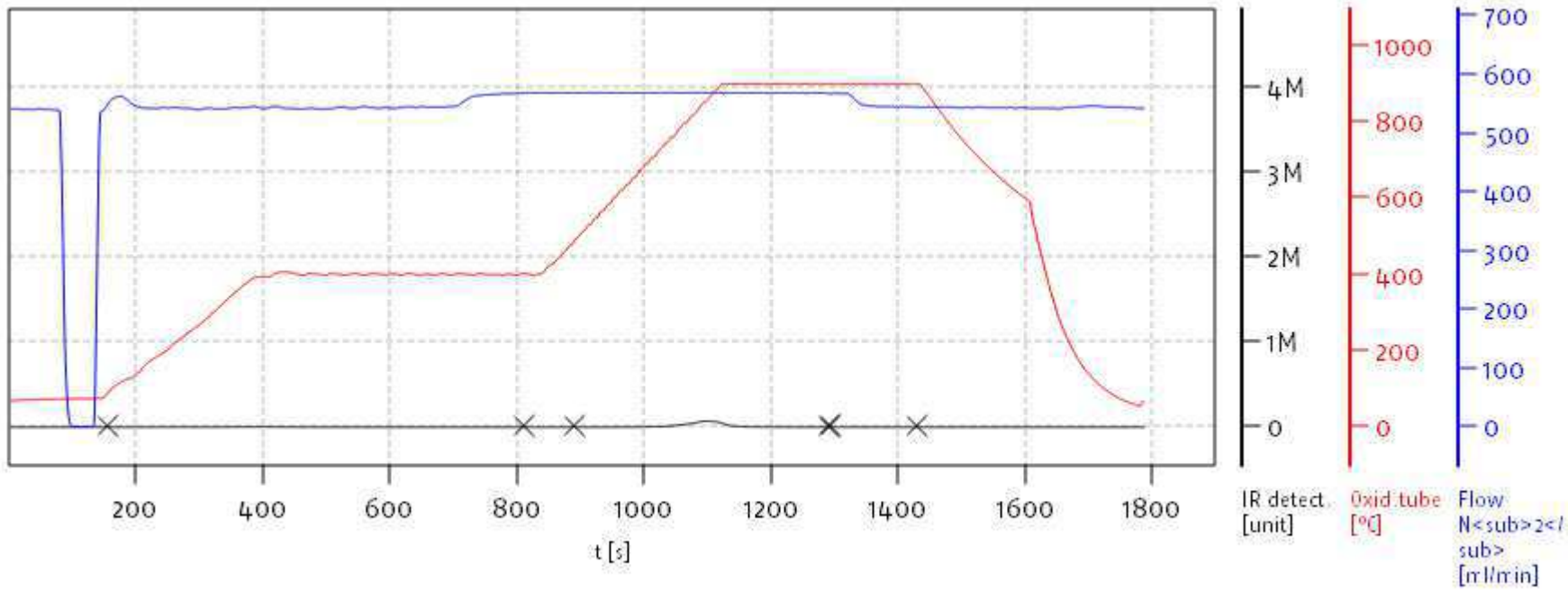
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	SLE0270-CAL9	200.00	0.0400	CARBON	5/17/2023 4:47 PM	bl,C2u	0.019	17 233	0.167	0.003	1 274	185 567	0.016	0.148	1.0000	1.0000



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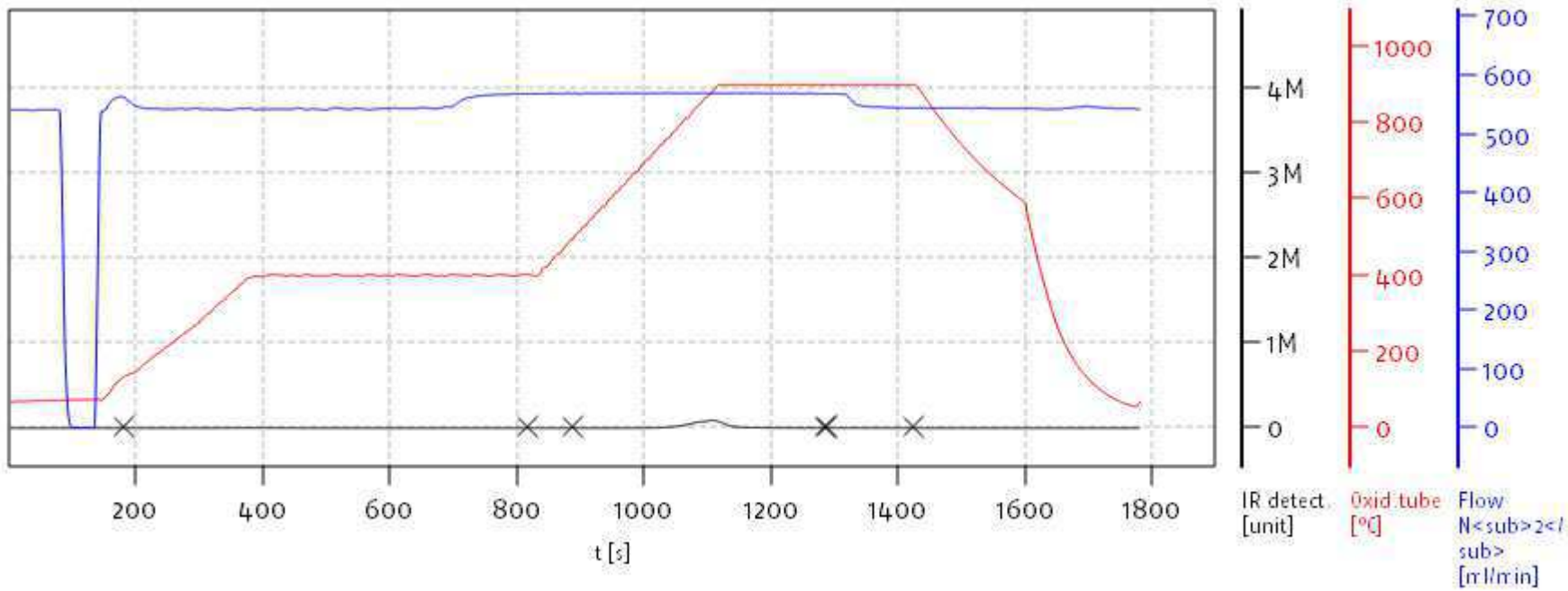
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	SLE0270-CALA	200.00	0.0500	CARBON	5/17/2023 5:17 PM	bl,C2u	0.018	11 766	0.202	0.007	6 123	230 855	0.011	0.184	1.0000	1.0000



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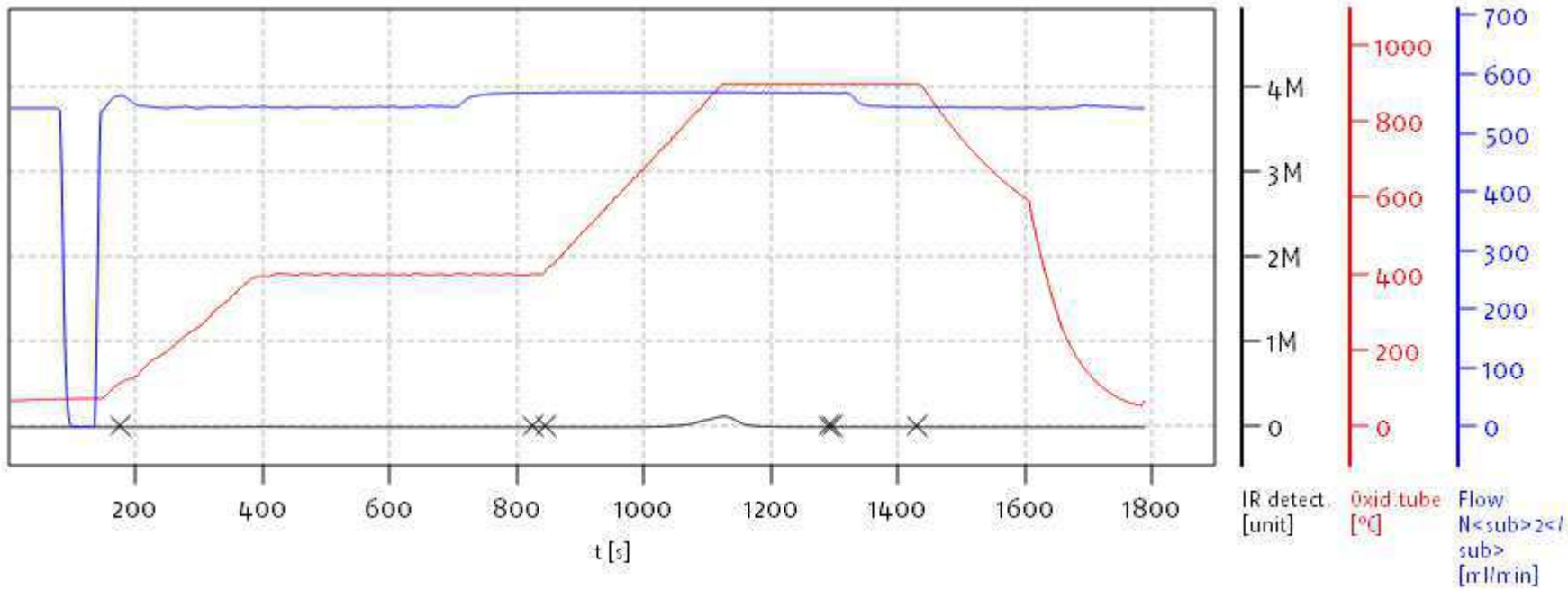
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	SLE0270-CALB	200.00	0.0040	CARBON	5/17/2023 5:47 PM	bl,C2u	0.022	18 635	0.291	0.005	3 969	339 170	0.017	0.269	1.0000	1.0000



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Soli TOC Cube, Carbon
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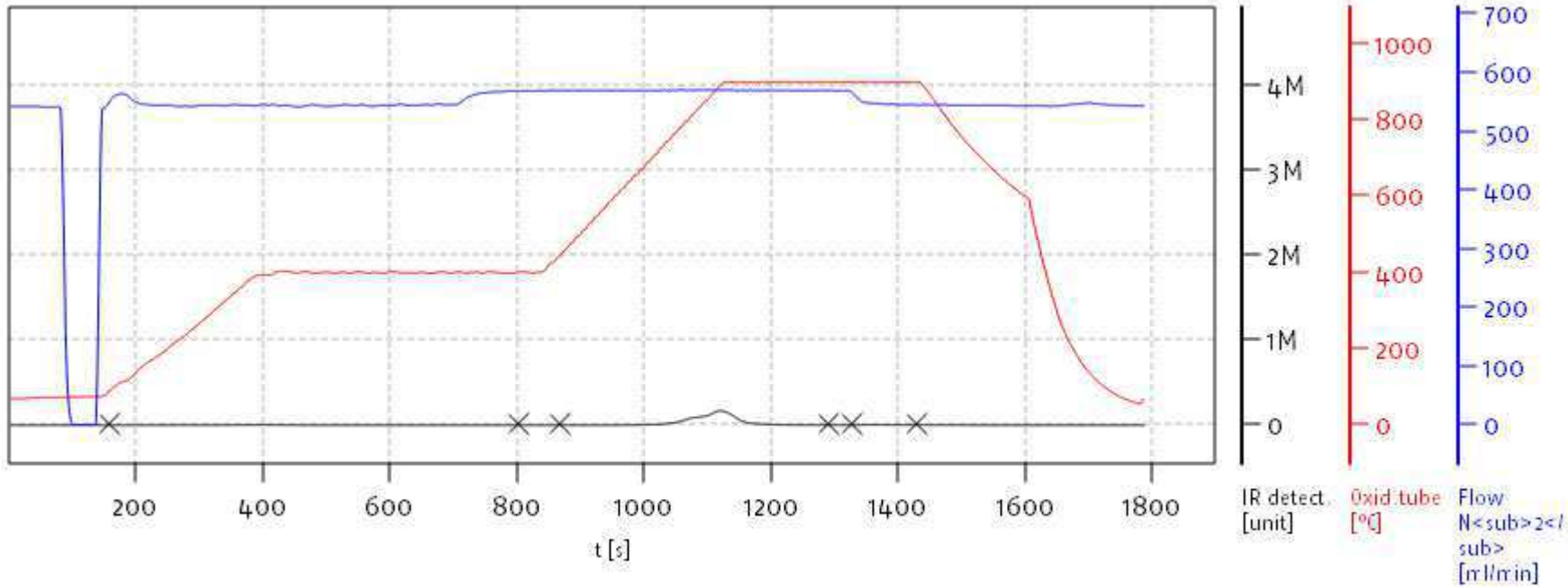
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	SLE0270-CALC	200.00	0.0050	CARBON	5/17/2023 6:18 PM	bl	0.026	14 893	0.405	0.012	12 639	478 044	0.014	0.379	1.0000	1.0000



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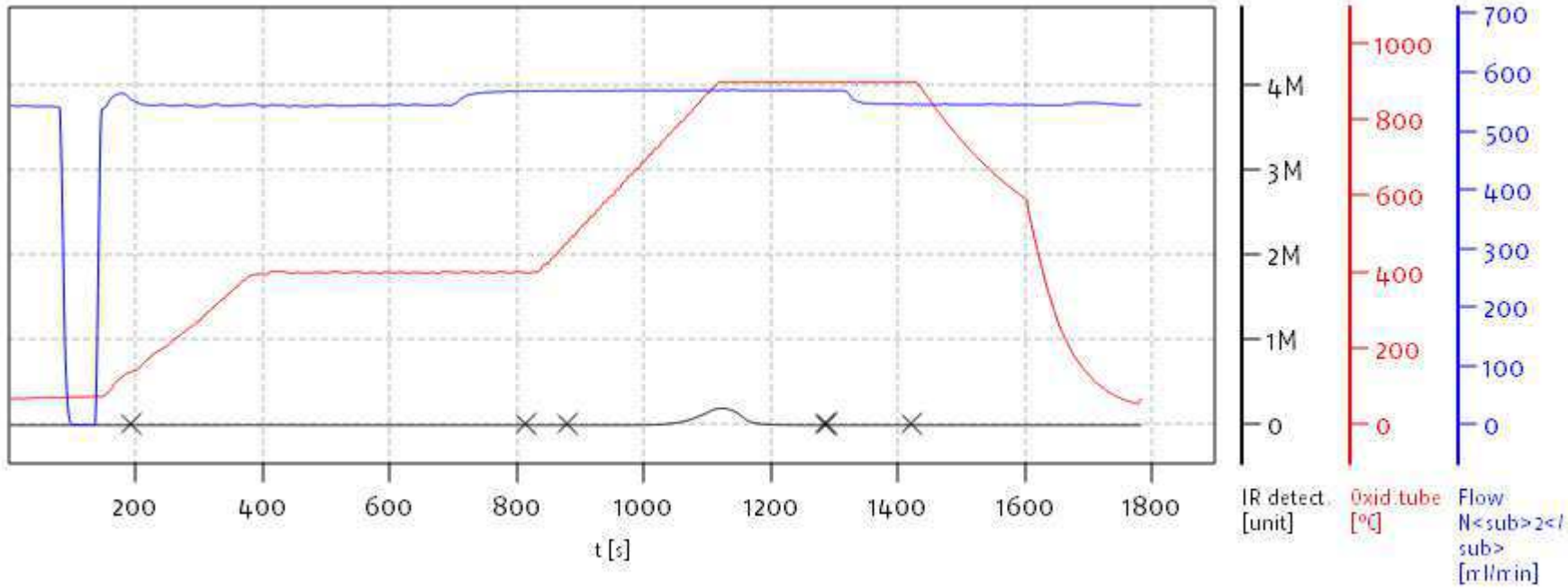
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	SLE0270-CALD	200.00	0.0070	CARBON	5/17/2023 6:48 PM	bl,C1u,C2u	0.010	6 787	0.465	0.002	420	574 876	0.007	0.455	1.0000	1.0000



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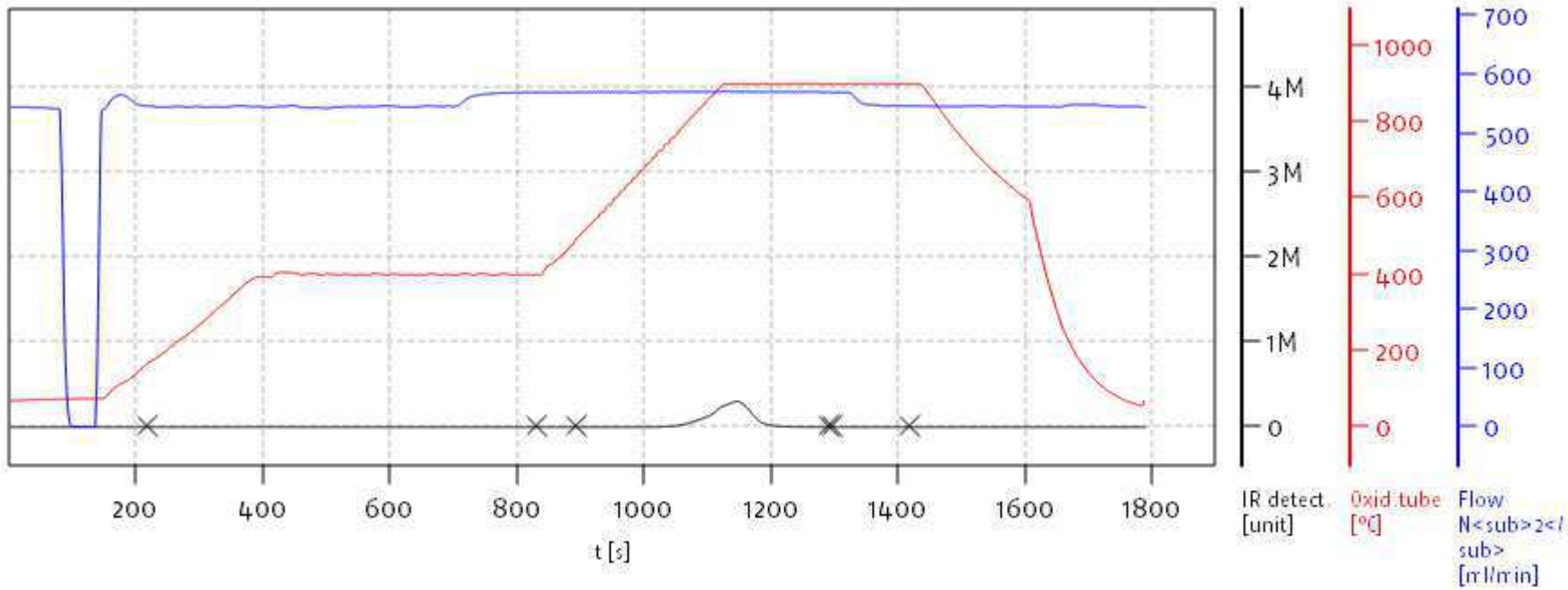
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLE0270-CALE	200.00	0.0100	CARBON	5/17/2023 7:18 PM	bl,C1u,C2u	0.008	4 408	0.667	0.003	771	832 670	0.006	0.658	1.0000	1.0000



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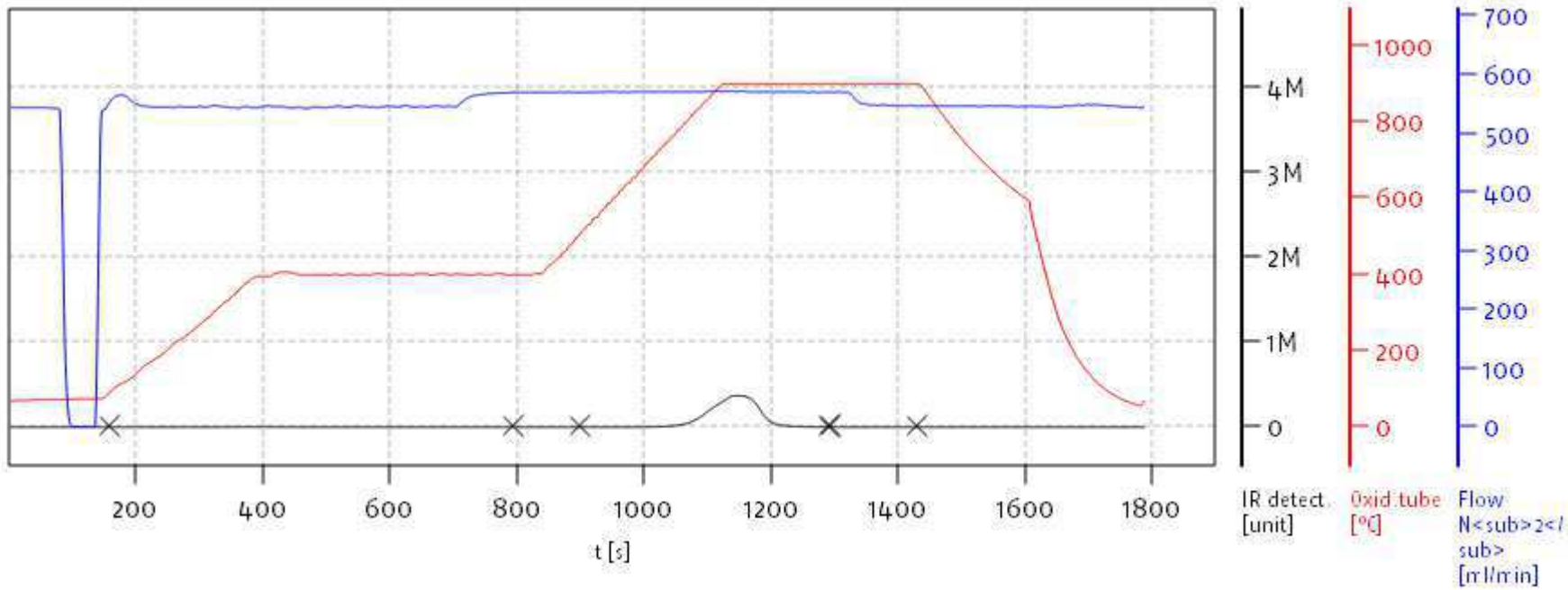
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLE0270-CALF	200.00	0.0150	CARBON	5/17/2023 7:48 PM	bl,C1u,C2u	0.012	8 494	0.984	0.003	1 464	1 230 304	0.009	0.972	1.0000	1.0000



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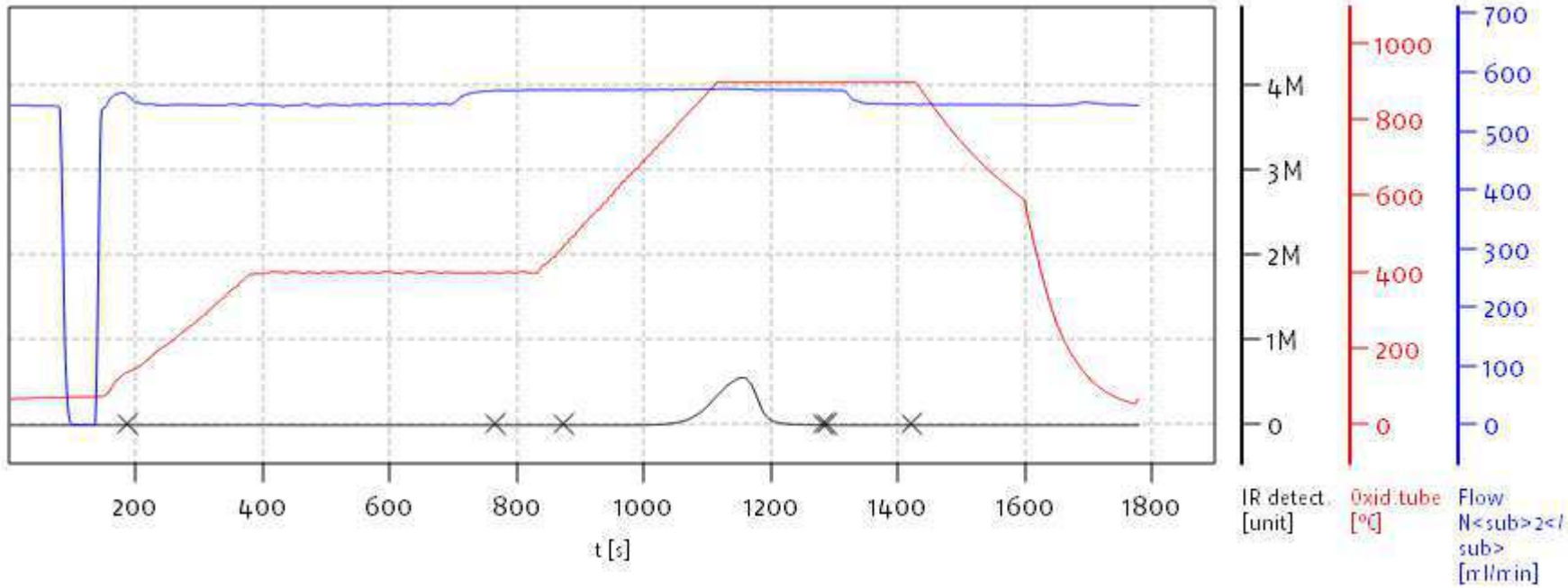
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	SLE0270-CALG	200.00	0.0200	CARBON	5/17/2023 8:18 PM	bl,C1u,C2u	0.010	5 359	1.331	0.004	1 864	1 673 425	0.006	1.321	1.0000	1.0000



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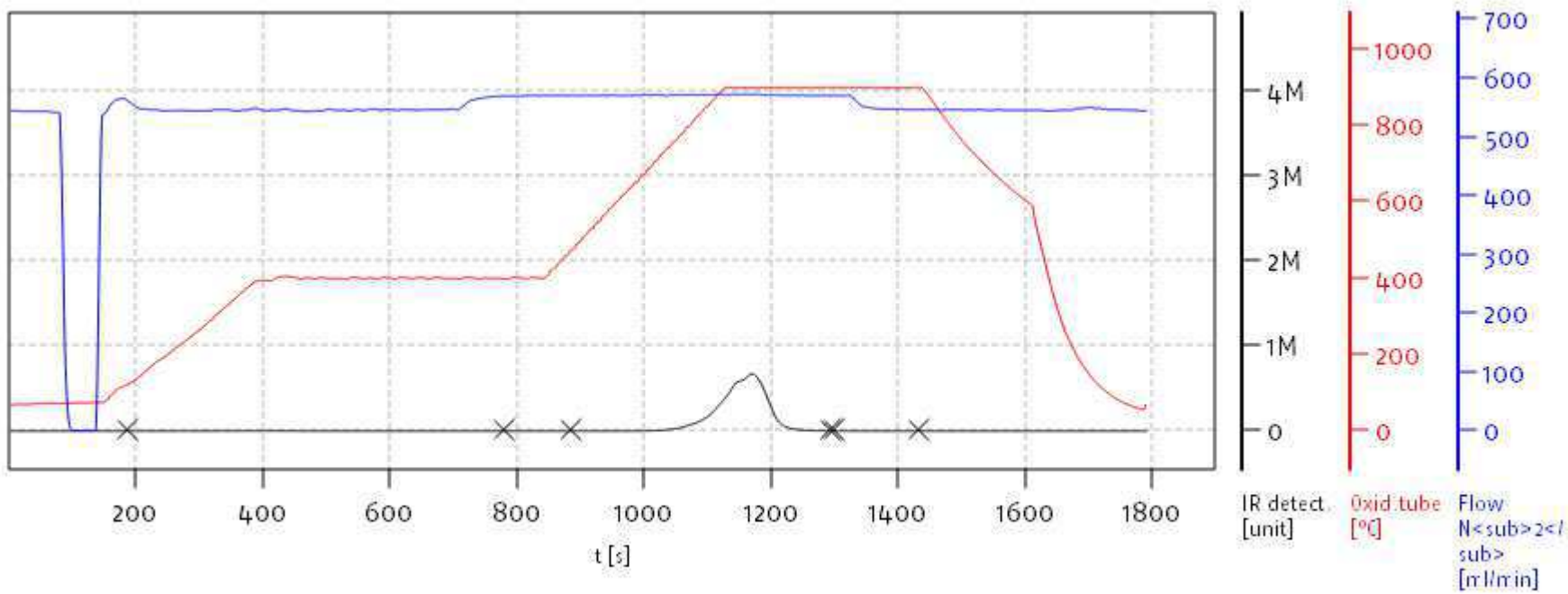
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	SLE0270-CALH	200.00	0.0250	CARBON	5/17/2023 8:48 PM	bl,C2u	0.015	11 407	1.659	0.004	2 280	2 083 004	0.011	1.644	1.0000	1.0000



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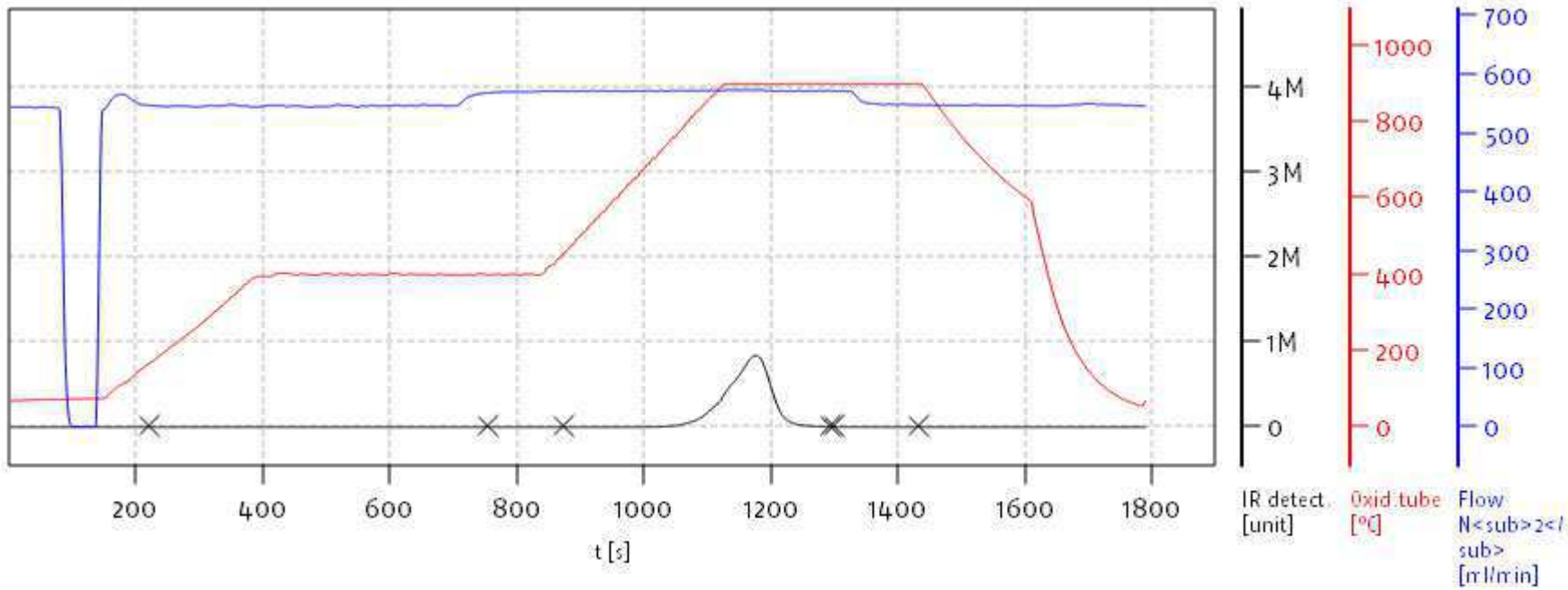
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	SLE0270-CALI	200.00	0.0300	CARBON	5/17/2023 9:19 PM	bl,C1u,C2u	0.009	2 781	1.981	0.005	3 895	2 498 427	0.004	1.971	1.0000	1.0000



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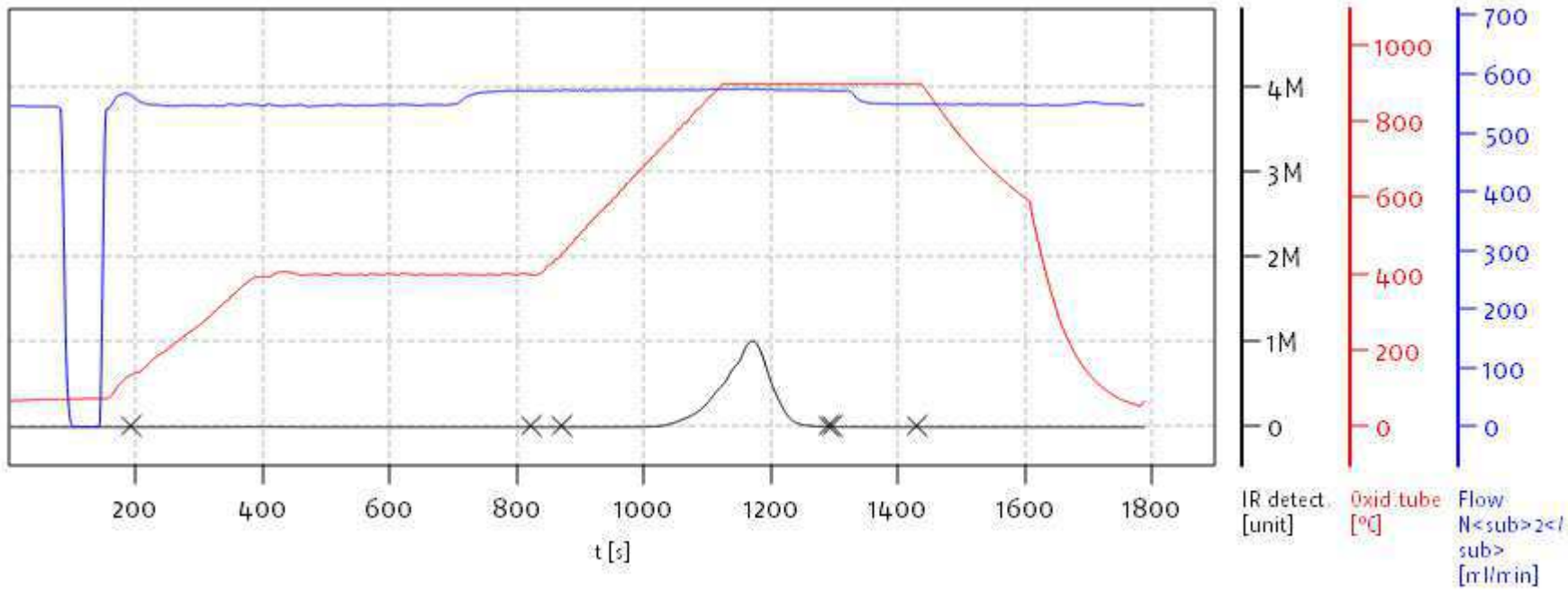
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	SLE0270-CALJ	200.00	0.0400	CARBON	5/17/2023 9:49 PM	bl,C2u	0.018	13 295	2.629	0.006	4 807	3 309 588	0.013	2.611	1.0000	1.0000



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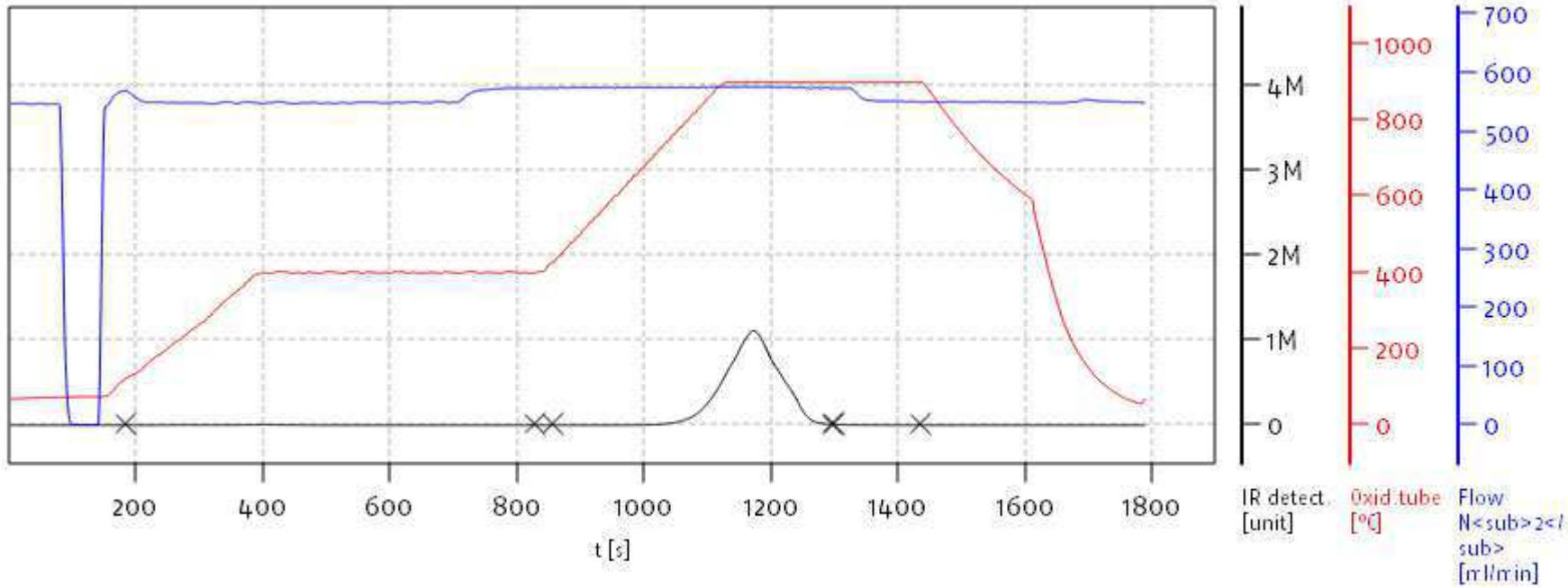
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	SLE0270-CALK	200.00	0.0500	CARBON	5/17/2023 10:19 PM	bl	0.031	25 022	3.285	0.009	9 148	4 126 050	0.022	3.254	1.0000	1.0000



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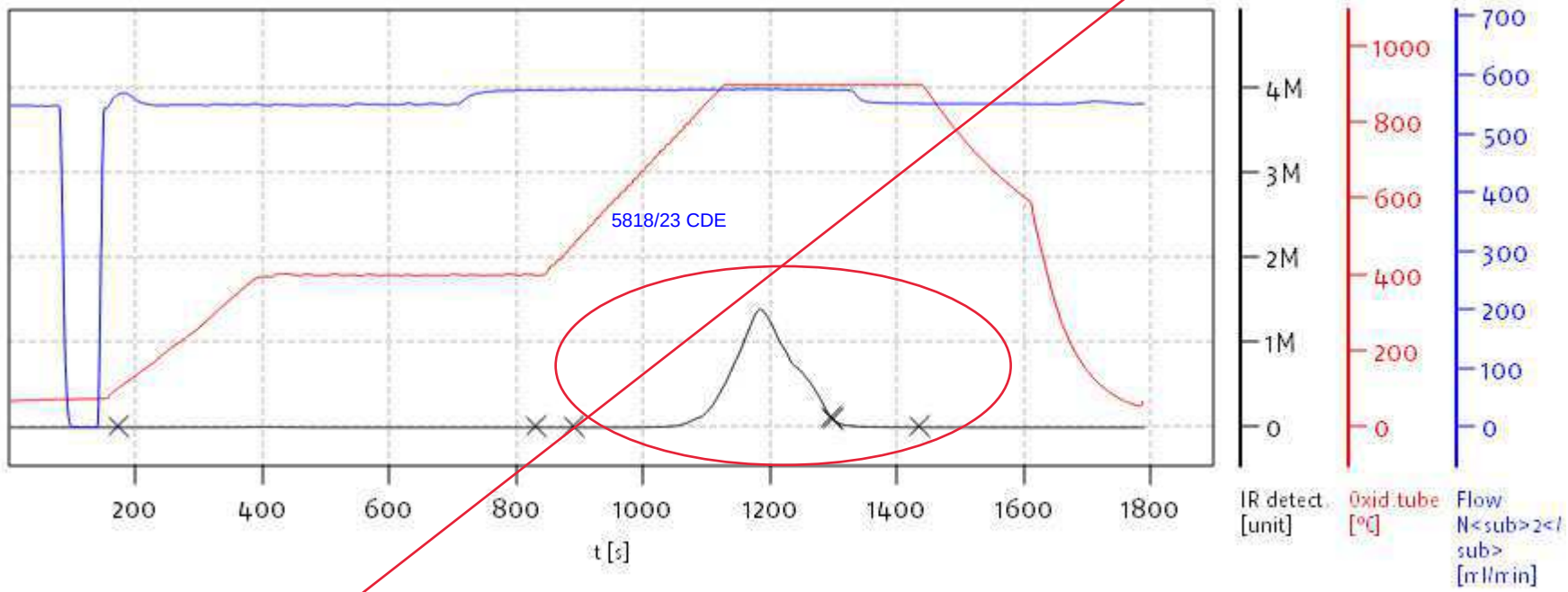
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/17/2023 10:49 PM	bl	0.069	21 598	4.597	0.050	60 794	5 741 652	0.019	4.528	1.0000	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

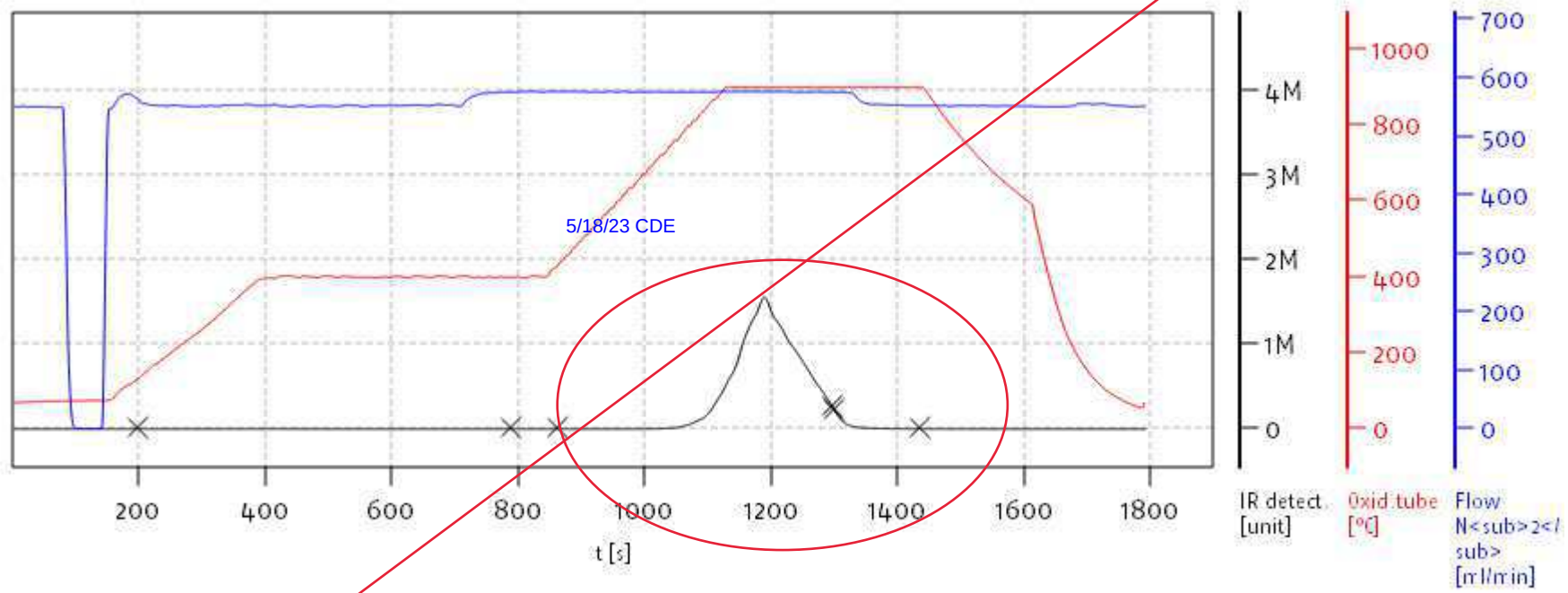
elementar
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/17/2023 11:19 PM	bl,C1u	0.112	5 408	5.212	0.106	131 494	6 467 914	0.006	5.100	1.0000	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

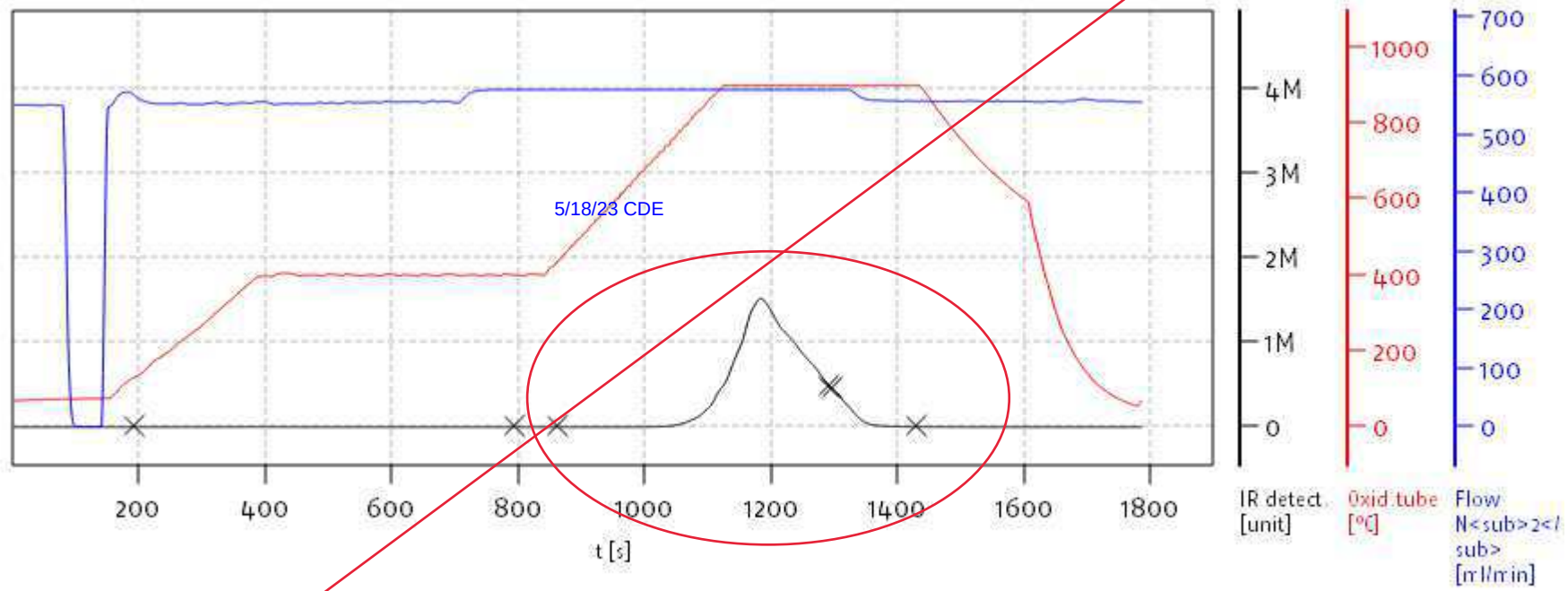
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/17/2023 11:50 PM	bl	0.408	8 745	5.832	0.399	503 842	6 879 212	0.009	5.424	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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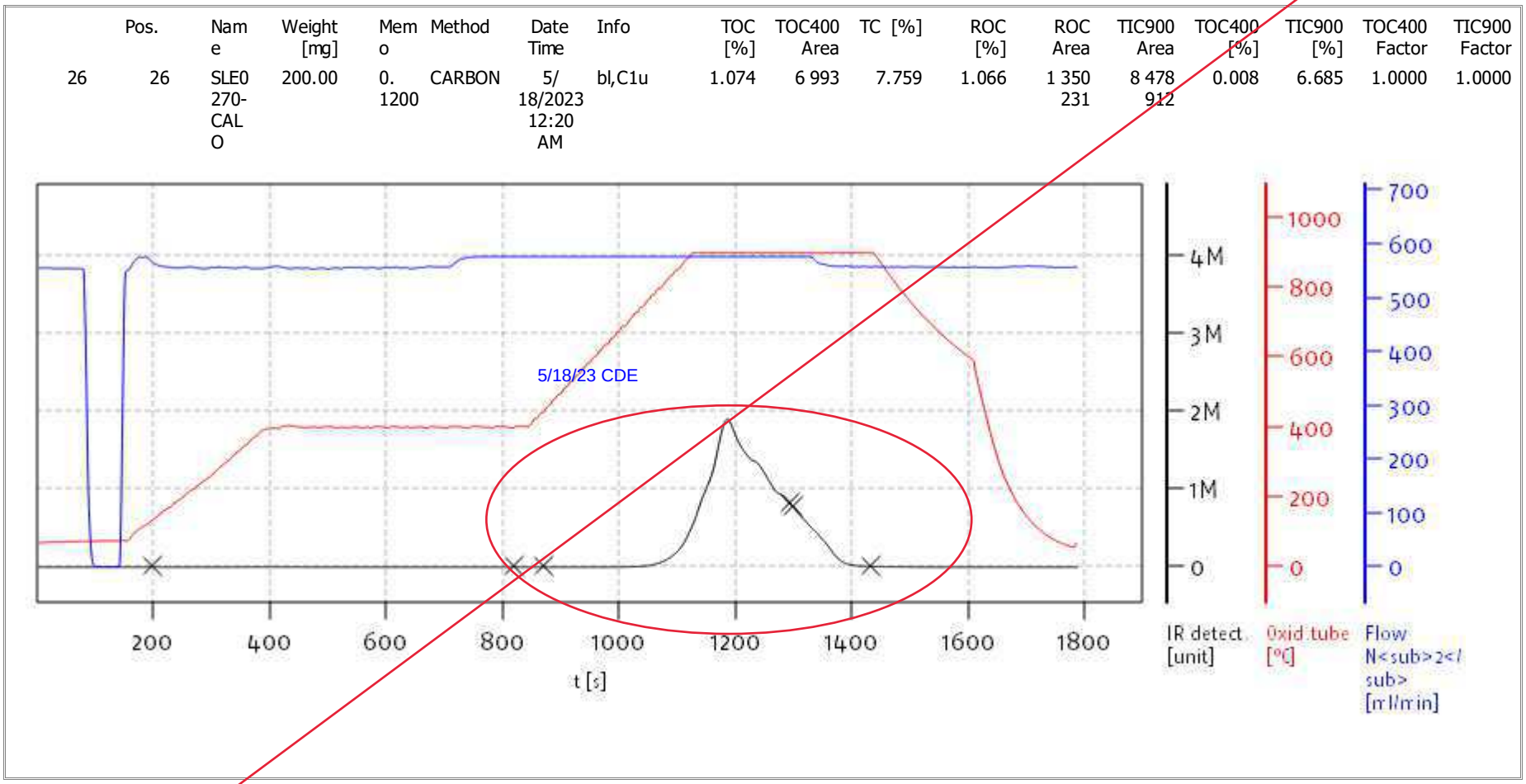
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 12:20 AM	bl,C1u	1.074	6 993	7.759	1.066	1 350 231	8 478 912	0.008	6.685	1.0000	1.0000



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Date: Thu May 18 09:43:39 2023

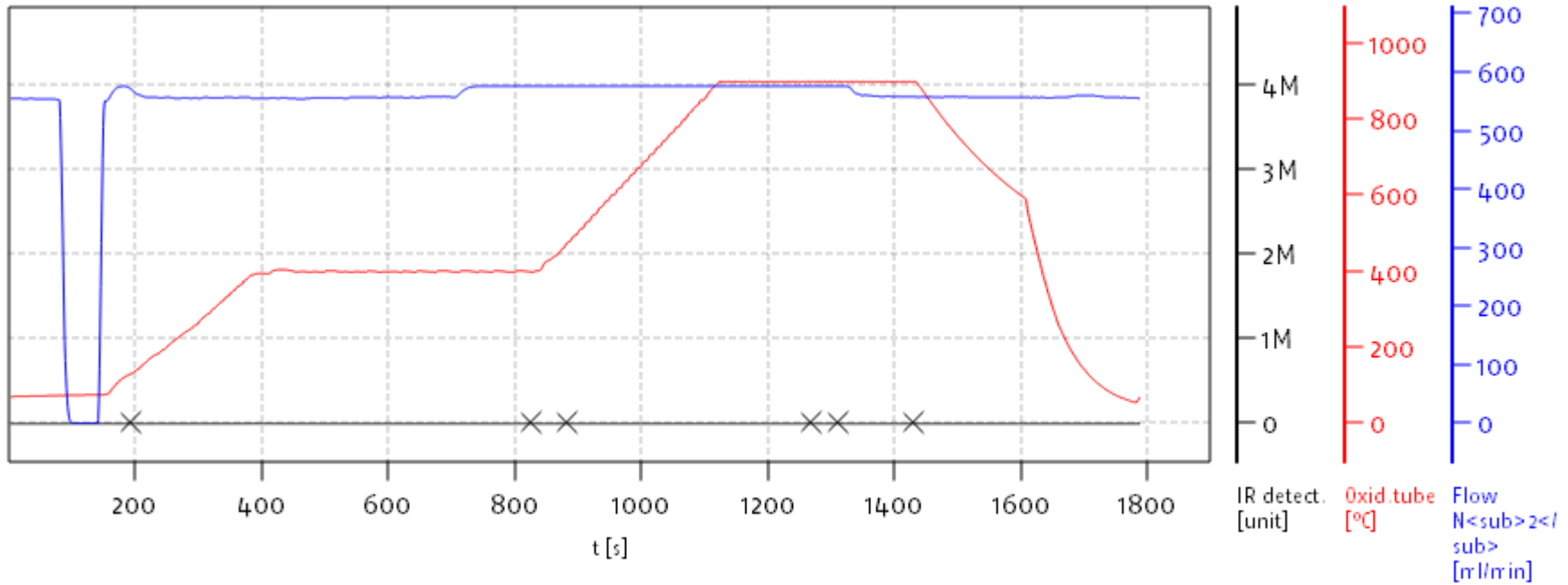
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		CARBON	5/ 18/2023 12:50 AM	bl	0.000	5 379	0.000	0.000	0	959	0.000	0.000	1.0000	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

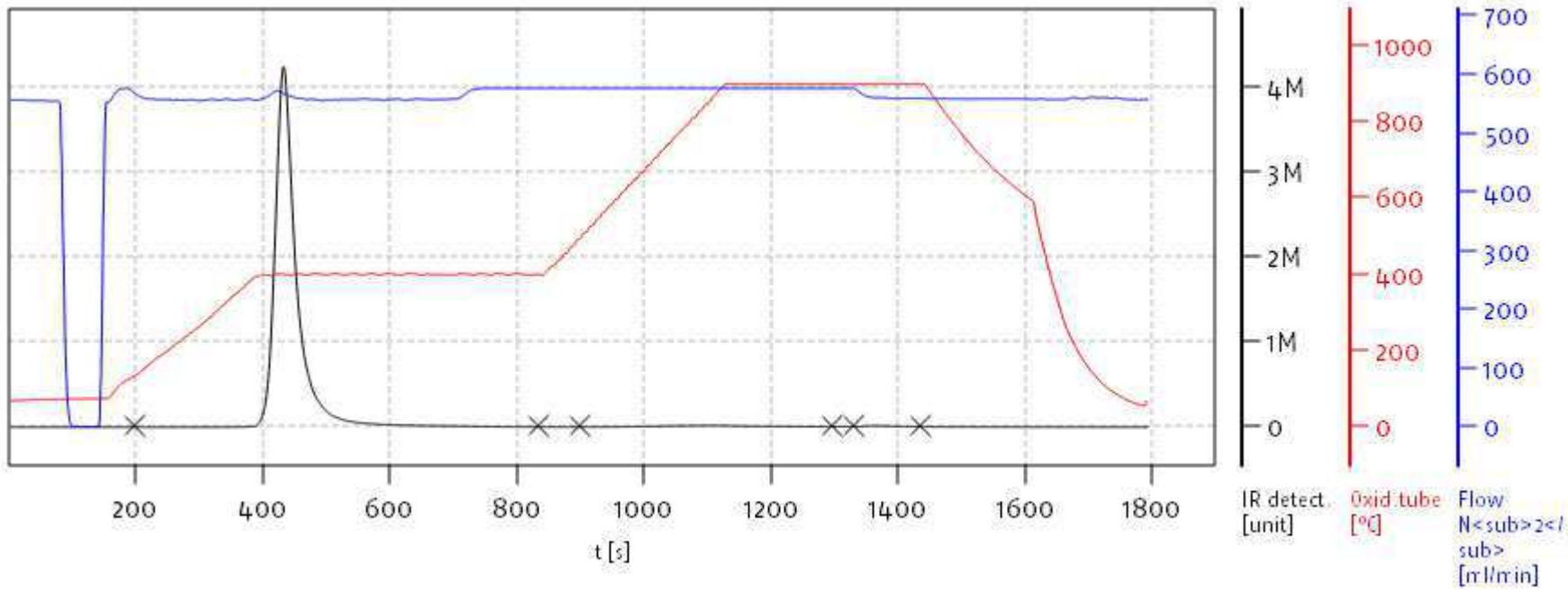
elementar
EXCELLENCE IN ELEMENTS

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	Dfactor	21.70		CARBON	5/18/2023 1:20 AM	bl	44.736	6 218 209	45.755	0.291	37 376	137 647	44.446	1.019	0.9835	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

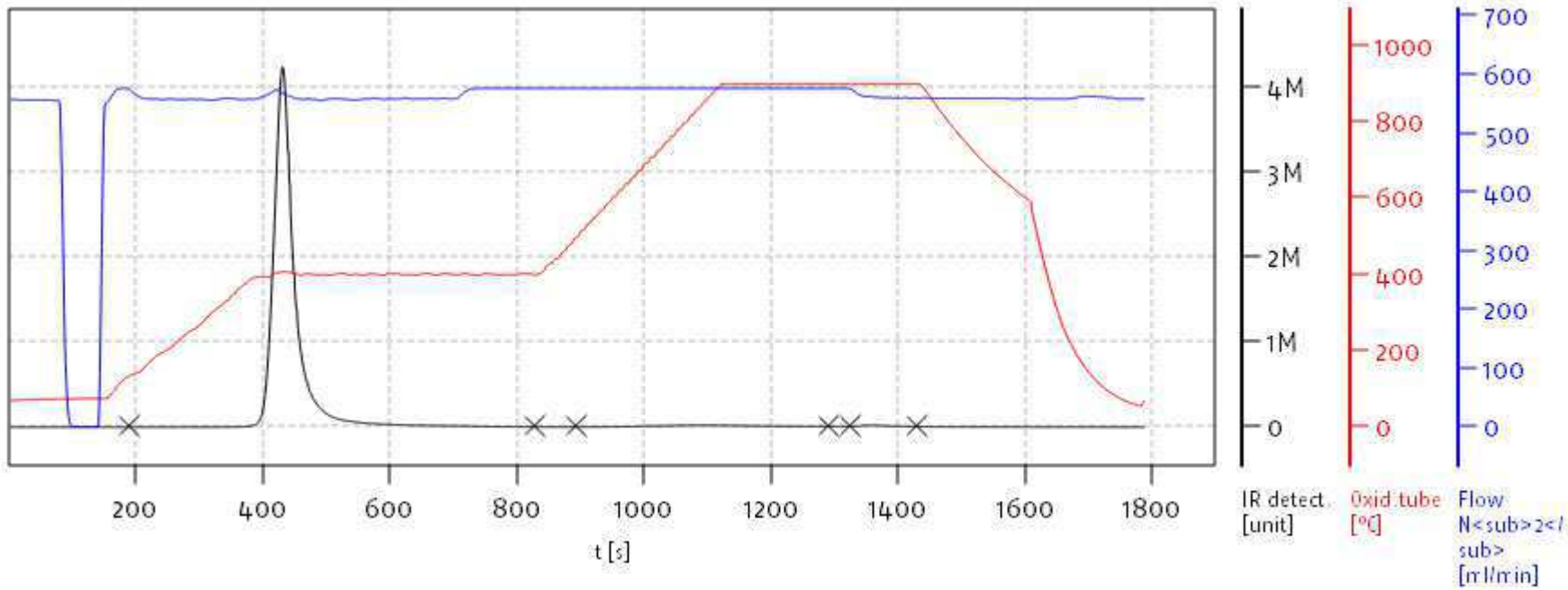
elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	Dfactor	21.20		CARBON	5/18/2023 1:50 AM	bl	44.824	6 030 884	46.116	0.378	48 254	171 095	44.446	1.292	0.9907	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

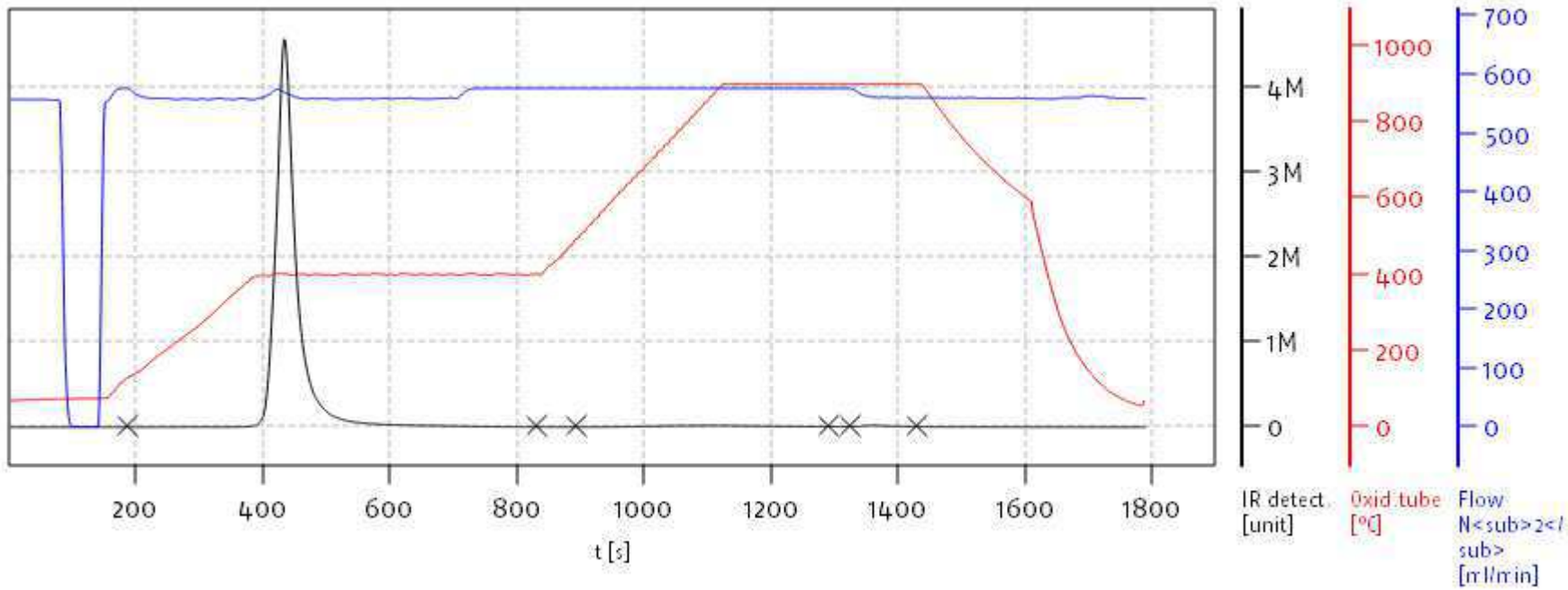
elementar
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	SLE0270-ICV1	22.30		CARBON	5/18/2023 2:21 AM	bl	44.949	6 392 325	46.022	0.327	43 597	149 127	44.622	1.073	0.9871	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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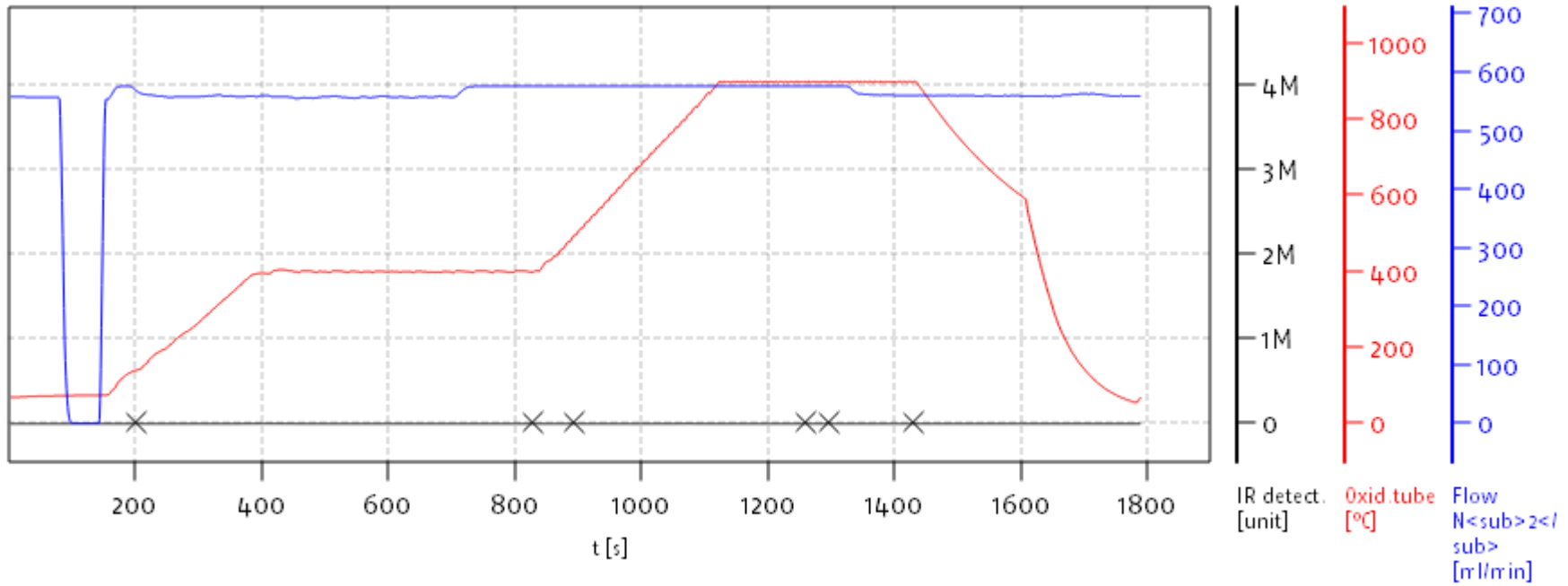
EXCELLENCE IN ELEMENTS

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	SLE0270-ICB1	530.50		CARBON	5/18/2023 2:51 AM	bl,C1u,C3u,C2u	0.003	6 198	0.005	0.001	198	1 900	0.003	0.001	0.9871	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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elementar
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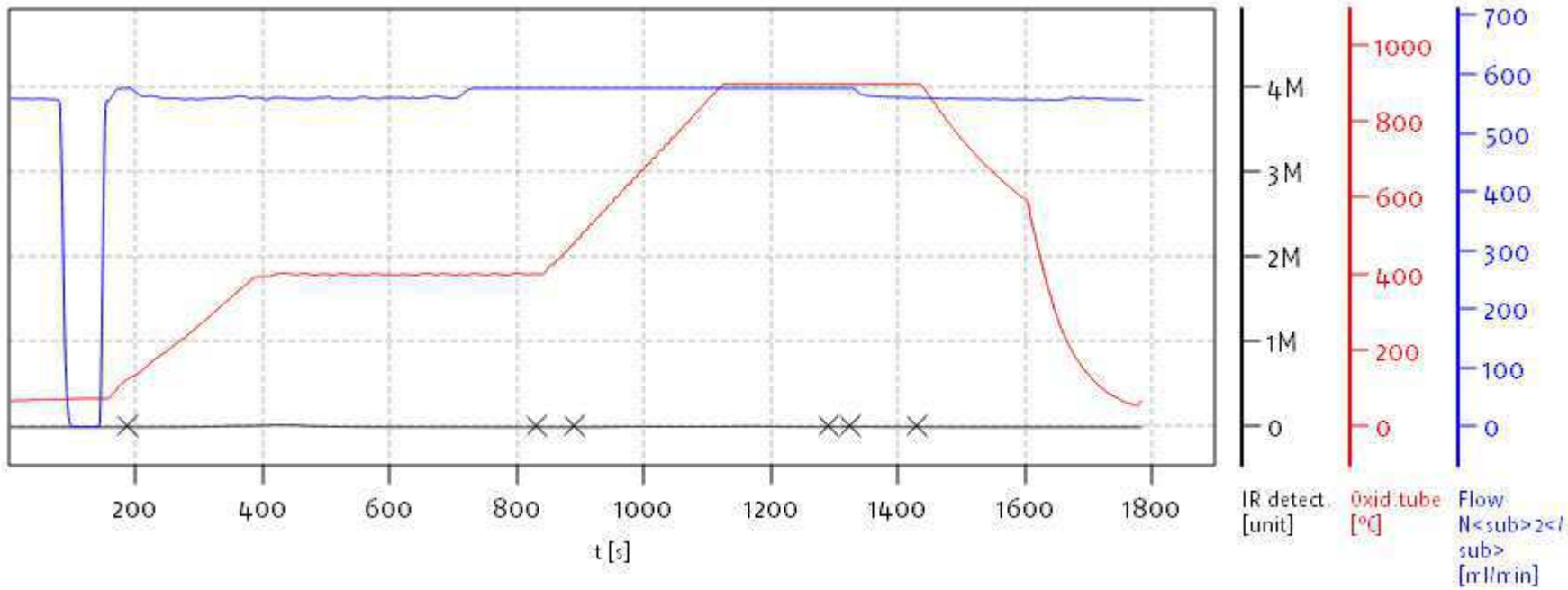
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23D0491-10	42.50		CARBON	5/18/2023 3:21 AM	bl	0.560	138 129	0.841	0.044	9 353	73 148	0.515	0.281	0.9871	1.0000



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Access: soliTOC superuser

Date: Thu May 18 09:43:39 2023

elementar
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soliTOC V2.0.2 (31015f9) 2018-11-19
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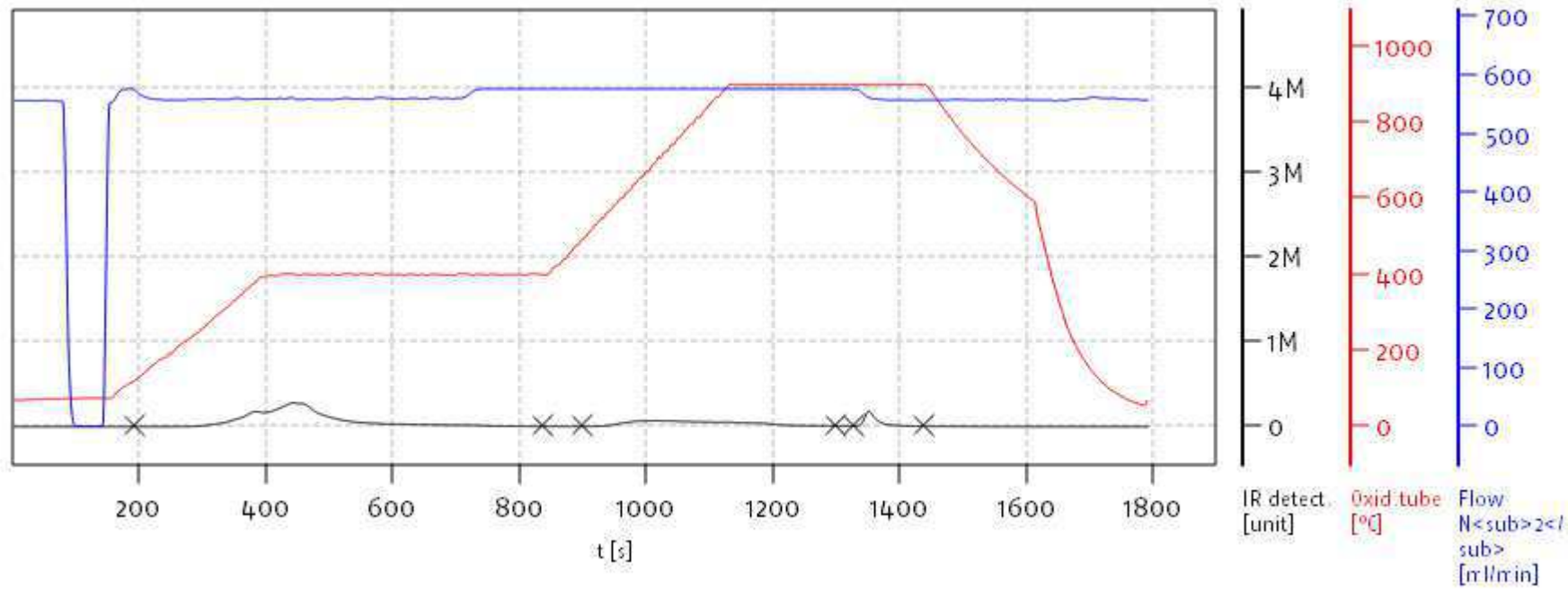
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23D0491-10RE1	505.50		CARBON	5/18/2023 3:51 AM	bl	0.513	1 489 627	0.692	0.054	169 645	569 728	0.459	0.178	0.9871	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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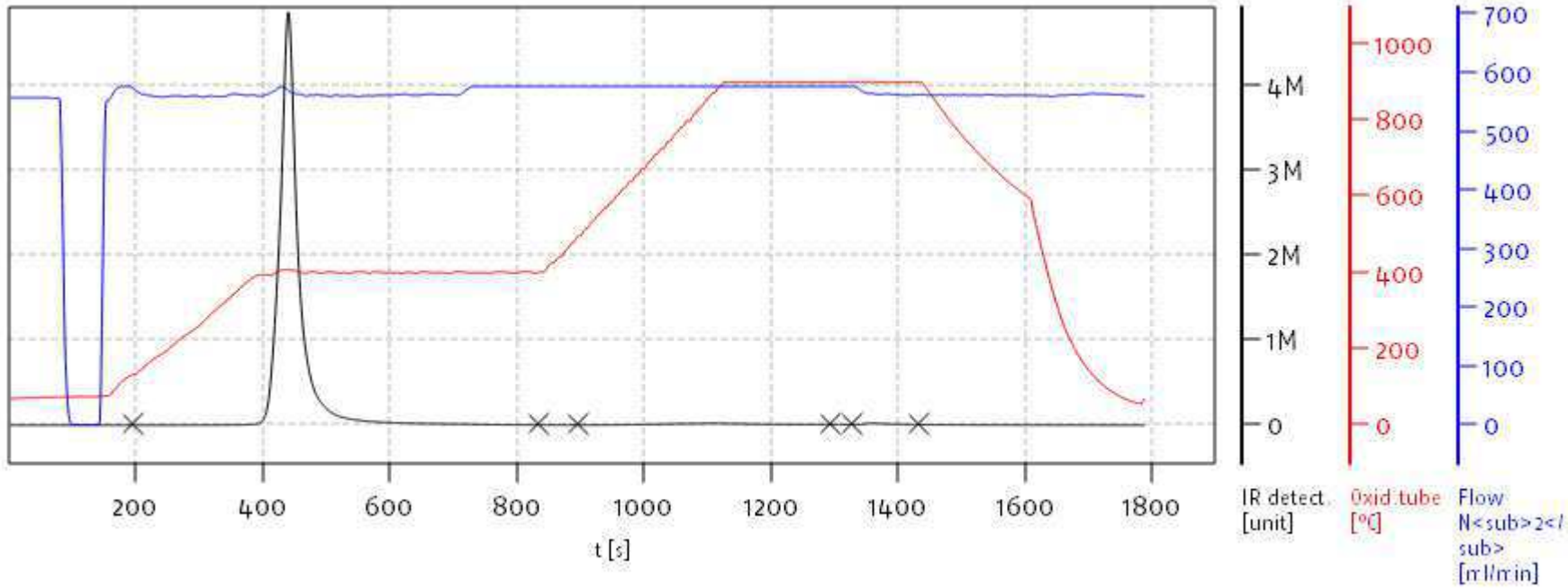
Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	SLE0270-CCV1	22.20		CARBON	5/18/2023 4:21 AM	bl	44.616	6 309 271	45.769	0.375	50 146	159 806	44.241	1.153	0.9871	1.0000



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Date: Thu May 18 09:43:39 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
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EXCELLENCE IN ELEMENTS

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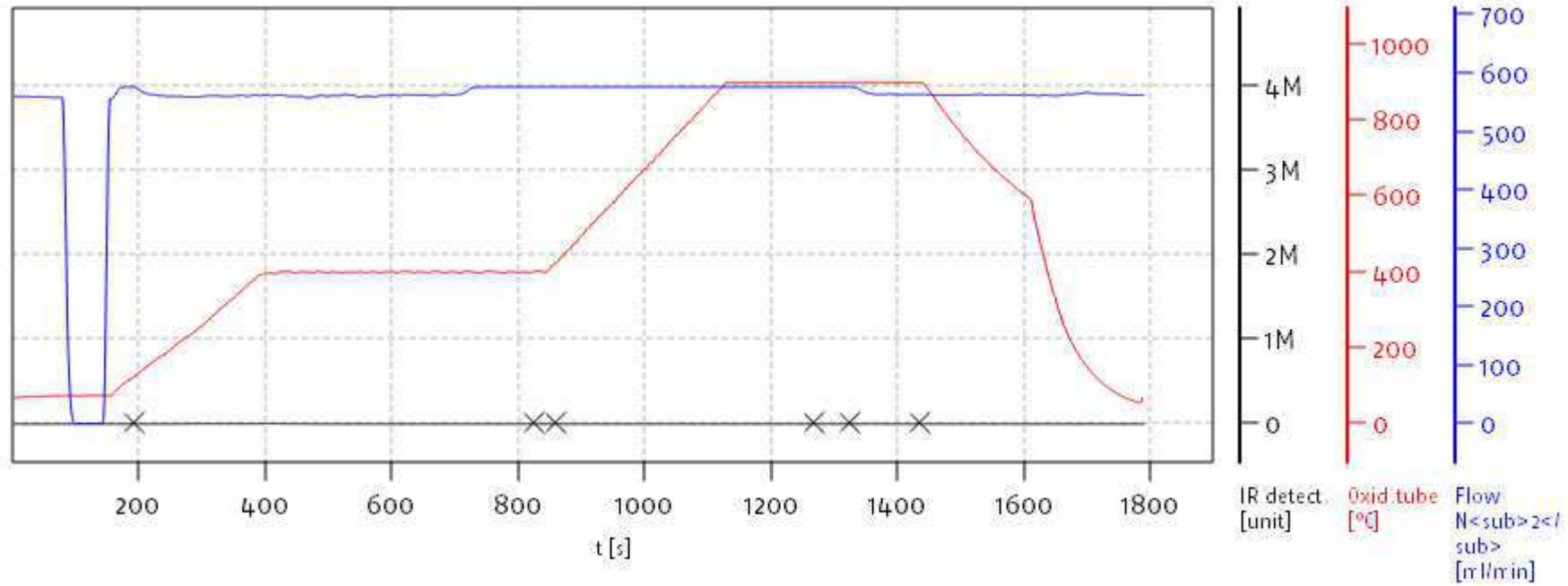
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	SLE0270-CCB1	523.30		CARBON	5/18/2023 4:52 AM	bl,C3u,C2u	0.009	22 128	0.010	0.001	2 335	2 184	0.007	0.001	0.9871	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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Soli TOC Cube, Carbon
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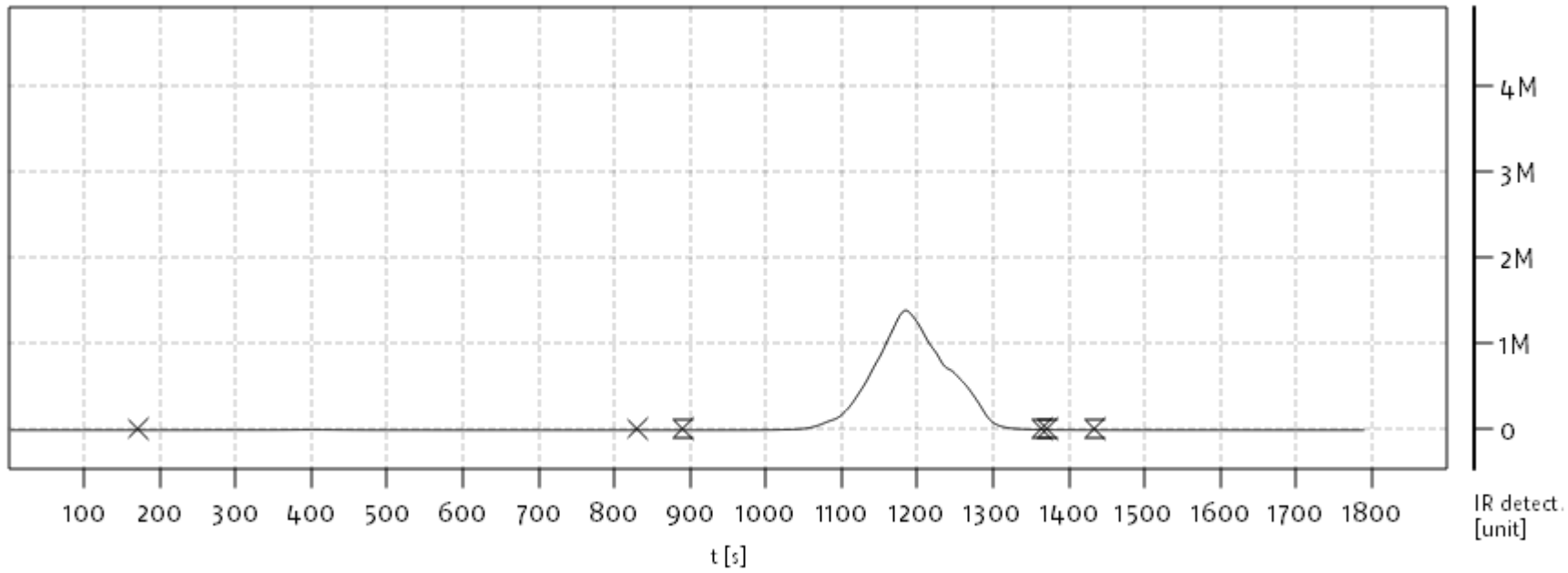
Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	SLE0270-CALL	200.00	0.0700	CARBON	5/18/2023 9:47 AM	bl	0.019	21 598	4.386	0.000	**0**	**5 538 028**	0.019	4.367	1.0000	1.0000



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Date: Thu May 18 09:50:12 2023

elementar
EXCELLENCE IN ELEMENTS

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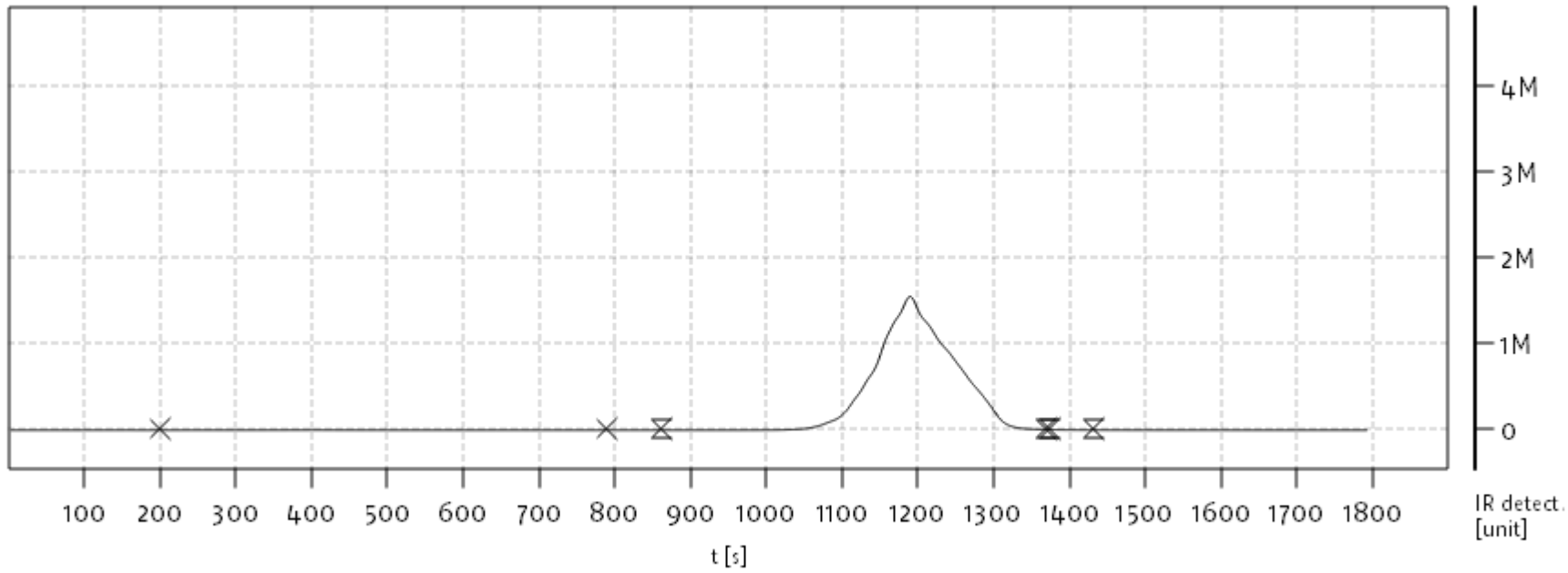
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	SLE0270-CALM	200.00	0.0800	CARBON	5/18/2023 9:48 AM	bl,C1u	0.006	5 408	4.784	0.000	**0**	**6 058 878**	0.006	4.778	1.0000	1.0000



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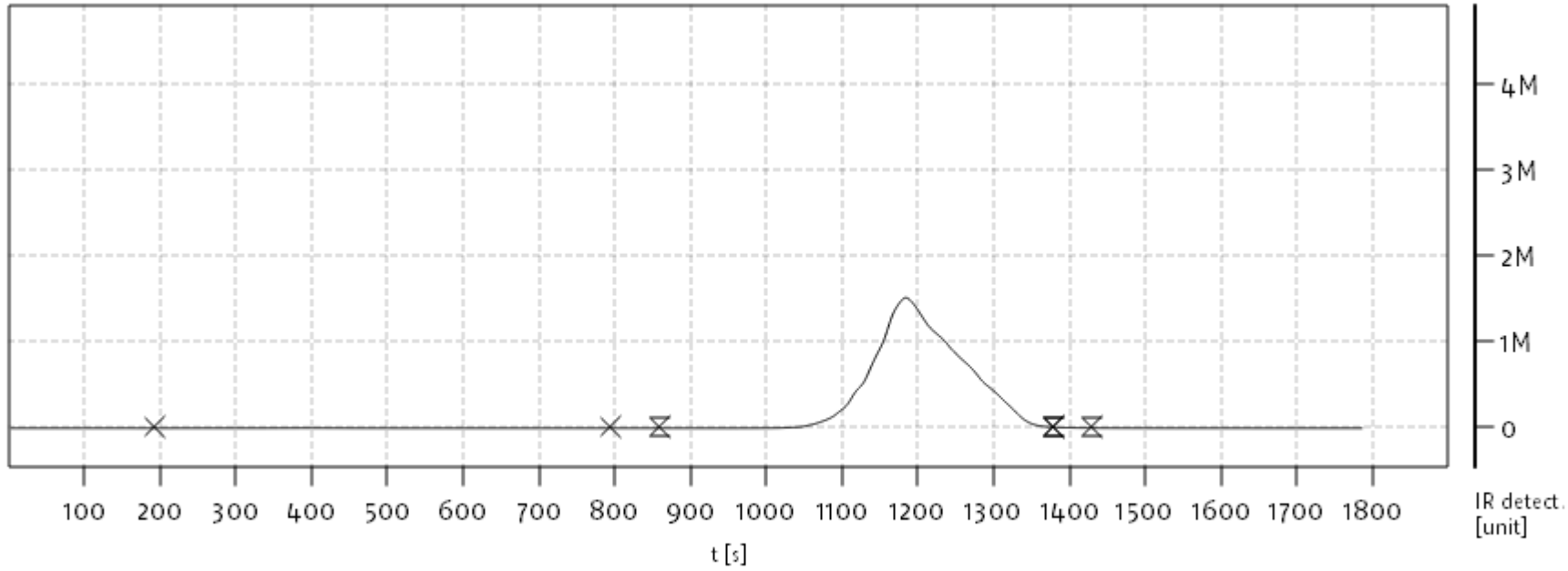
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	SLE0270-CALN	200.00	0.0900	CARBON	5/18/2023 9:49 AM	bl	0.009	8 745	5.379	0.000	**0**	**6 810 985**	0.009	5.370	1.0000	1.0000



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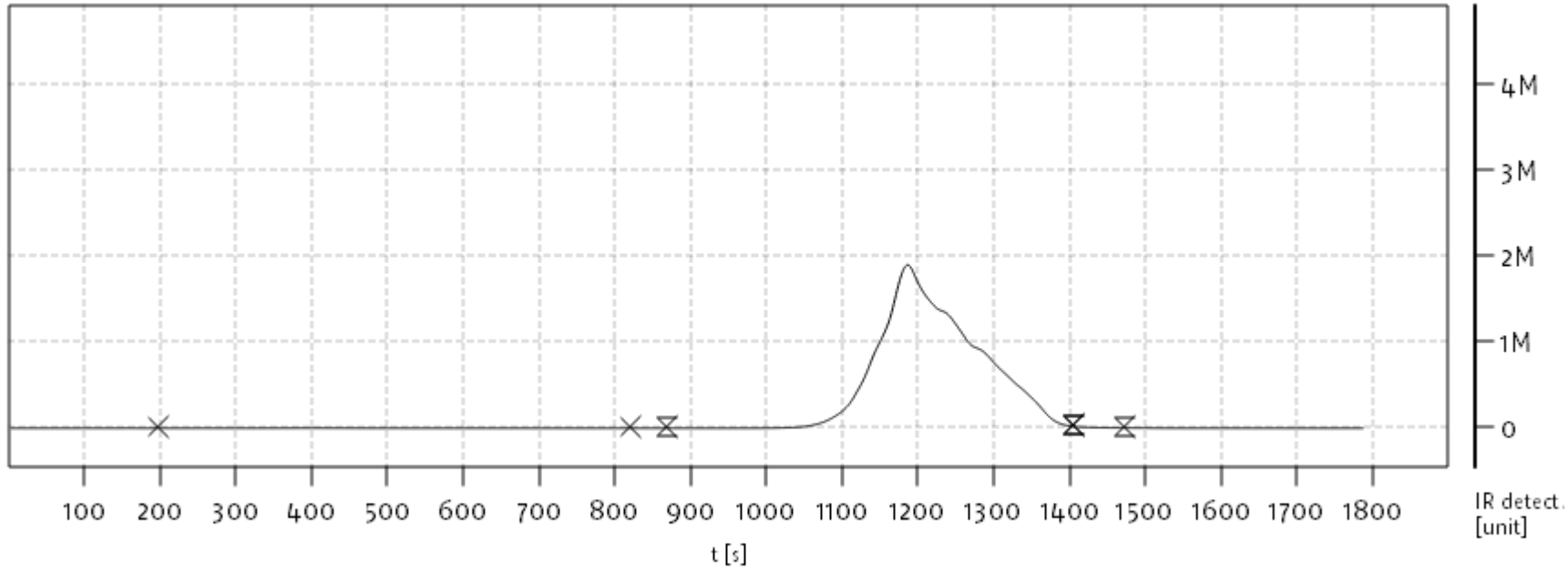
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

Analytical Resources, LLC
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	SLE0270-CALO	200.00	0.1200	CARBON	5/18/2023 9:49 AM	bl,C1u,C3o	0.008	6 993	7.291	0.000	0	9 238 066	0.008	7.283	1.0000	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 051723CDE GE00052 Calibration from: --.--.-- (modified)

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Sequence: SLE0270
Date Analyzed: 05/18/23 02:51

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0270-ICB1	Total Organic Carbon	0.003	0.02	0.02	%	
SLE0270-CCB1	Total Organic Carbon	0.009	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SLF0283

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00052
Date Analyzed: 06/20/23 17:53

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLF0283-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0283-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0283-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0283-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0283-CCB4	Total Organic Carbon	0.003	0.02	0.02	%	
SLF0283-CCB5	Total Organic Carbon	0.005	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SLF0370

SDG: 23D0136
Project: AOC5 MR Phase 1
Calibration: GE00052
Date Analyzed: 06/24/23 15:31

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLF0370-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0370-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0370-CCB2	Total Organic Carbon	0.007	0.02	0.02	%	
SLF0370-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0370-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0370-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0370-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SLF0370-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Control Limt: +/- 10.00%
Sequence: SLE0270

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0270-ICV1	Total Organic Carbon	44.446	45.4	102	%	EPA 9060A m
	Total Carbon	44.446	45.4	102	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	45.4		%	EPA 9060A m
	% Soot	0.0000	45.4		%	EPA 9060A m
SLE0270-CCV1	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
	Total Carbon	44.446	45.2	102	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	45.2		%	EPA 9060A m
	% Soot	0.0000	45.2		%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Control Limt: +/- 10.00%
Sequence: SLF0283

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLF0283-ICV1	Total Organic Carbon	44.446	44.3	99.7	%	EPA 9060A m
SLF0283-CCV1	Total Organic Carbon	44.446	43.8	98.5	%	EPA 9060A m
SLF0283-CCV2	Total Organic Carbon	44.446	44.4	100	%	EPA 9060A m
SLF0283-CCV3	Total Organic Carbon	44.446	43.2	97.2	%	EPA 9060A m
SLF0283-CCV4	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m
SLF0283-CCV5	Total Organic Carbon	44.446	45.1	102	%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: GE00052
Control Limt: +/- 10.00%
Sequence: SLF0370

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLF0370-ICV1	Total Organic Carbon	44.446	46.6	105	%	EPA 9060A m
SLF0370-CCV1	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
SLF0370-CCV2	Total Organic Carbon	44.446	43.6	98.1	%	EPA 9060A m
SLF0370-CCV3	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SLF0370-CCV4	Total Organic Carbon	44.446	43.7	98.2	%	EPA 9060A m
SLF0370-CCV5	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m
SLF0370-CCV6	Total Organic Carbon	44.446	45.4	102	%	EPA 9060A m
SLF0370-CCV7	Total Organic Carbon	44.446	44.3	99.7	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLF0522-SRM2
Batch: BLF0522
Initial/Final: 0.3077 g / 0.3077 g
Preparation: No Prep Wet Chem
Analyzed: 06/24/2023 17:32
Standard ID: L005590
Expires: 04/14/2032
Standard Lot#: 1941 B
Description: 1941B- Organics in Marine Sediment

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	3.12	0.02	0.02		104	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	06/19/23 13:26	75	180	06/21/23 02:24			
LDW23-SC1804 23D0136-02	04/05/23 12:15	04/06/23 10:30	06/19/23 13:26	75	180	06/21/23 10:27			
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	06/19/23 13:26	74	180	06/21/23 10:57			
LDW23-SC1803 23D0136-04	04/05/23 16:30	04/06/23 10:30	06/19/23 13:26	74	180	06/21/23 12:28			
Duplicate BLF0522-DUP1	04/05/23 11:45	04/06/23 10:30	06/19/23 13:26	75	180	06/21/23 02:54			
Matrix Spike BLF0522-MS1	04/05/23 11:45	04/06/23 10:30	06/19/23 13:26	75	180	06/21/23 03:24			

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Standard Record

Standard ID: B000871

Printed: 5/25/2023 9:17:22AM

Description:	Calcium Carbonate 99.9% for Calibration	Expires:	31-Oct-2030
Standard Type:	Reagent	Prepared:	28-Jun-2013
Solvent:	NA/I2605	Prepared By:	Susan Dunnihoo
Final Volume (mls):	500	Department:	Conventionals
Vials:	1	Last Edit:	08-Jul-2019 12:16 by CDE
Vendor:	Mallinckrodt	Lot #:	4072 KDHD
Vendor Catalog #:	4072-03		

Comments

Analyte	CAS Number	Concentration	Units
Total Organic Carbon		120000	ppm
Total Inorganic Carbon		120000	ppm
Total Carbon		120000	ppm
Calcium carbonate	471-34-1	1000000	ppm
% Soot		120000	ppm

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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National Institute of Standards and Technology
U.S. Department of Commerce

Date of Issue:
25 April 2022

Standard Reference Material® 1941b

Organics in Marine Sediment

CERTIFICATE OF ANALYSIS

Purpose: This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Non-certified values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified and non-certified values are provided in SRM 1941b were naturally present in the sediment before processing.

Description: A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Non-Certified Values: Non-certified values are provided in the Appendix A.

Additional Information: Additional information is provided in Appendices B-D.

Period of Validity: The certified values delivered by **SRM 1941b** are valid within the measurement uncertainty specified until **14 April 2032**. The certified values are nullified if the material is stored or used improperly, damaged, contaminated, or otherwise modified.

Maintenance of Certified Values: NIST will monitor this SRM over the period of its validity. If substantive technical changes occur that affect the certification, NIST will issue an amended certificate through the NIST SRM website (https://www.nist.gov/srm) and notify registered users. SRM users can register online from a link available on the NIST SRM website or fill out the user registration form that is supplied with the SRM. Registration will facilitate notification. Before making use of any of the values delivered by this material, users should verify they have the most recent version of this documentation, available through the NIST SRM website (https://www.nist.gov/srm).

Carlos A. Gonzalez, Chief
Chemical Sciences Division
Certificate Revision History on Page 5

Steven J. Choquette, Director
Office of Reference Materials

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [2] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [3]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [6] with a pooled, within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [7] and later revised by Schulte and Malisch [8] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [2] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [6] with a pooled, within method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [3]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [2] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [6] with a pooled, within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [3]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Safety: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

REFERENCES

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Certificate Revision History: 25 April 2022 (Change of period of validity; updated format; editorial changes); 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 01 December 2011 (Extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Certain commercial equipment, instruments, or materials may be identified in this Certificate of Analysis to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards and Technology, nor does it imply that the materials or equipment identified are necessarily the best available for the purpose.

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the Office of Reference Materials 100 Bureau Drive, Stop 2300, Gaithersburg, MD 20899-2300; telephone (301) 975-2200; e-mail srminfo@nist.gov; or the Internet at https://www.nist.gov/srm.

* * * * * * End of Certificate of Analysis* * * * * *

APPENDIX A

Non-Certified Values: Non-certified mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table A1 through Table A4. Non-certified values for alkylated PAH groups are provided in Table A5 and for selected hopanes and steranes in Table A6. A non-certified value for total organic carbon is provided in Table A7. Non-certified values are values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Additional Non-Certified Mass Fraction Values: Non-certified mass fraction values are provided in Table A8 for carbon, hydrogen, and nitrogen.

Table A1. Non-certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] 1999 Interlaboratory Comparison Study [2] with 14 to 26 laboratories submitting data for each PAH.
[f] Non-certified values are weighted means of the results from two to four analytical methods [3]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] Non-certified values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table A2. Non-certified Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Non-certified values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [9].

Table A3. Non-certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [7] and later revised by Schulte and Malisch [8] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the non-certified values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [6] with a pooled within-method variance following the ISO/JCGM Guide [4,5]. For PCB 77, the non-certified value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table A4. Non-certified Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] The non-certified values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [6] with a pooled, within-method variance following the ISO/JCGM Guide [4,5]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[f] 1999 Interlaboratory Comparison Study [2] with 10 laboratories submitting data for 4,4'-DDT.

Table A5. Non-certified Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)
C2-decalins	18 ± 5
C4-decalins	41 ± 4
C2-naphthalenes	187 ± 53
C3-naphthalenes	158 ± 42
C1-benzothiophenes	25 ± 14
C2-benzothiophenes	20 ± 11
C3-benzothiophenes	22 ± 13
C4-benzothiophenes	18 ± 5
C1-fluorenes	57 ± 18
C2-fluorenes	122 ± 43
C3-fluorenes	128 ± 31
C1-phenanthrenes/anthracenes	313 ± 99
C2-phenanthrenes/anthracenes	247 ± 62
C3-phenanthrenes/anthracenes	165 ± 46
C4-phenanthrenes/anthracenes	87 ± 36
C1-dibenzothiophenes	54 ± 13
C2-dibenzothiophenes	91 ± 18
C3-dibenzothiophenes	84 ± 15
C4-dibenzothiophenes	57 ± 13
C1-fluoranthenes/pyrenes	252 ± 48
C2-fluoranthenes/pyrenes	205 ± 38
C3-fluoranthenes/pyrenes	102 ± 22
C4-fluoranthenes/pyrenes	121 ± 59
C1-benzanthraces/chrysenes/triphenylenes	208 ± 43
C2-benzanthraces/chrysenes/triphenylenes	120 ± 24
C3-benzanthraces/chrysenes/triphenylenes	73 ± 31
C4-benzanthraces/chrysenes/triphenylenes	41 ± 11

[a] The non-certified mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.

[b] Data from the interlaboratory study [10].

Table A6. Non-certified Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The non-certified mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[b] Data from the interlaboratory study [10].

Table A7. Non-certified Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] The non-certified value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [1]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [11]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table A8. Additional Non-Certified Mass Fraction Values for SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

Maintenance of Non-Certified Values: NIST will monitor this material to the end of its period of validity. If substantive technical changes occur that affect the non-certified values during this period, NIST will update this Appendix and notify registered users. SRM users can register online from a link available on the NIST SRM website or fill out the user registration form that is supplied with the SRM. Registration will facilitate notification. Before making use of any of the values delivered by this material, users should verify they have the most recent version of this documentation, available through the NIST SRM website (https://www.nist.gov/srm).

* * * * * * * * * * End of Appendix A * * * * * * * * * * *

APPENDIX B

Coordination of the technical measurements leading to the certification of this material was under the leadership of S.A. Wise of the NIST Chemical Sciences Division and M.M. Schantz, formerly of NIST

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, D.L. Poster, and L.L. Yu of the NIST Chemical Sciences Division and B.J. Porter, M.M. Schantz, P. Schubert, and S. Tutschku, formerly of NIST.

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix C) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix D) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz, formerly of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a −10 °C shelf temperature and a −50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [11]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added

to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [12–15]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [13,14].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [2]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [9].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture, clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [11].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing:

(1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [7,8]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The non-certified value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [16]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [10]. Results from 33 laboratories that participated in this exercise were used in the determination of the non-certified values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

* * * * * * * * * * * * End of Appendix B * * * * * * * * * * * * *

APPENDIX C

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc (Cambridge, MA, USA)
Axys Analytical Services (Sidney, BC, Canada)
B & B Laboratories (College Station, TX, USA)
Battelle Ocean Sciences (Duxbury, MA, USA)
Bedford Institute of Oceanography (Dartmouth, NS, Canada)
California Department of Fish and Game (Rancho Cordova, CA, USA)
Central Contra Costa Sanitary District (Martinez, CA, USA)
Chesapeake Biological Laboratory (Solomons, MD, USA)
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas (Madrid, Spain)
City of Los Angeles Environmental Monitoring Division (Playa del Rey, CA, USA)
City of San Jose Environmental Services Department (San Jose, CA, USA)
Columbia Analytical Services (Kelso, WA, USA)
East Bay Municipal Utility District (Oakland, CA, USA)
Florida Department of Environmental Protection (Tallahassee, FL, USA)
Manchester Environmental Laboratory (Port Orchard, WA, USA)
Murray State University (Murray, KY, USA)
Massachusetts Water Resources Authority Central Lab (Winthrop, MA, USA)
National Research Council of Canada (Ottawa, Ontario, Canada)
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory (Juneau, AK, USA)
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research (Charleston, SC, USA)
NOAA, NMFS, Sandy Hook Marine Laboratory (Highlands, NJ, USA)
NOAA, NMFS, Northwest Fisheries Science Center (Seattle, WA, USA)
Orange County Sanitation District (Fountain Valley, CA, USA)
Philip Analytical Services (Burlington, Ontario, Canada)
Serv de Hidrografia Naval (Buenos Aires, Argentina)
Skidaway Institute of Technology (Savannah, GA, USA)
Southwest Laboratory of Oklahoma (Broken Arrow, OK, USA)
Severn Trent Knoxville Laboratory (Knoxville, TN, USA)
Texas A&M University, Geochemical and Environmental Research Group (College Station, TX, USA)
Texas Parks and Wildlife Department (San Marcos, TX, USA)
University of California at Los Angeles, Institute of Geophysics and Planetary Physics (Los Angeles, CA, USA)
University of Connecticut, Environmental Research Institute (Storrs, CT, USA)
University of Rhode Island, Graduate School of Oceanography (Narragansett, RI, USA)
US Department of Agriculture, Environmental Chemistry Laboratory (Beltsville, MD, USA)
US Environmental Protection Agency, Atlantic Ecology Division (Narragansett, RI, USA)
US Geological Survey, National Water Quality Laboratory (Denver, CO, USA)
Woods Hole Group Environmental Lab (Raynham, MA, USA)
Wright State University (Dayton, OH, USA)

* * * * * * * * * * * End of Appendix C * * * * * * * * * * * *

APPENDIX D

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

* * * * * * * * * * * * End of Appendix D * * * * * * * * * * * *

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PURCHASE INFORMATION		
SRM/RM Number:	1941b	
Date Shipped:	May 18, 2023	
NIST Division:	646	
NIST Sales Order Number: Example (0800000)	O-0000049409	
Customer Purchase Order Number:		
Lot Number:	None	
Serial Number:	Not Serialized	
Purchased directly from NIST?	Yes ☐	No ☐
CUSTOMER INFORMATION		
User First Name:		
User Surname:		
Organization/Company:		
Address:		
Address (continued):		
City, State/Province:	City:	State/Province:
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	Ease with getting in touch with SRM Sales and Customer Service						
	Response time with your request for a quote or order						
	Overall experience with order placement (via online, email, phone, or fax)						
Order Fulfillment	Once the order for available items was placed, timeliness of delivery						
	Carrier treatment of shipment						
	Packaging of SRM(s)						
Product	SRM Certificate or Report of Investigation information						
	Material Safety Data sheet or SRM Exemption Letter information						
	Overall SRM Quality						
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What is the intended use of this SRM to your work?

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NIST

Date of Issue:
21 April 2022

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified and non-certified values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
E-mail: SRMMSDS@nist.gov
Website: https://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm
Thermal Stability Properties:	
Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: _X_ Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur _X_ Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: _X_ Inhalation _X_ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes X No

Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 21 April 2022

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at https://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1000TABLEZ1 (accessed Apr 2022).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at https://www.cdc.gov/niosh/npg/npgd0480.html (accessed Apr 2022).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NIOSH	National Institute for Occupational Safety and Health	TWA	Time Weighted Average
NIST	National Institute of Standards and Technology	UEL	Upper Explosive Limit
		WHMIS	Workplace Hazardous Materials Information System

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Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; e-mail srmmsds@nist.gov; or via the Internet at https://www.nist.gov/srm.

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TREASURY APPROVED 1974

U.S. DEPARTMENT OF COMMERCE
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

STANDARD REFERENCE MATERIAL PACKING SLIP

Email: srminfo@nist.gov

100 BUREAU DRIVE STOP 2300 GAITHERSBURG, MD 20899 PHONE: (301) 975-2200

S.O. #	Order Date	Shipped Date	Order Type	PO Number	Payment Terms	Bill To Account	Ship To Account
0-0000049409	05/18/2023	05/18/2023	Order		PREPAY	172887	172888

Bill To Address:

Analytical Resources, LLC
4611 134th Place S.
#100
Tukwila, WA 98168-3240

Ship To Address:

Analytical Resources, LLC
4611 134th Place S.
#100
Tukwila, WA 98168-3240

Ship via	FedEx Priority Over Night	**Account #**		**VAT #**	
Sales Rep	srmauto	**Email**	bob.congleton@arilabs.com	**Customs / EORI #**	
Destination Contact	Bob Congleton	**Phone #**	206-695-6200	**Import License #**	

*** Please inspect your shipment upon receipt ***

Order Discrepancies: Order discrepancies must be reported within 30 days after receipt of shipment.
Return Requests: Return requests must be made within 30 days after receipt of shipment.
NIST SRMs/RMs are generally not returnable; however, return requests are considered on a case-by-case basis. Returns WILL NOT BE ACCEPTED without prior authorization. To report an order discrepancy or to request a return, please contact NIST Sales and Customer Service at srminfo@nist.gov or 301-975-2200.

SRM / RM #	Description	Order Qty	UOM	Shipped Qty
1941b	Organics in Marine Sediment Shipping Charges Please be sure to include shipping charges that are found on the last page of your quote/proforma with your payment.	1	Each	1

Rec'd
5/19/23

BC

Reprint Date: 05/18/2023

Packed by	perlson
Total # of Pieces	1

PREPARATION BATCH SUMMARY

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0086 Batch Matrix: Solid
Preparation: No Prep-Organics

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1804	23D0136-01		04/10/23 14:41	

PREPARATION BATCH SUMMARY

ASTM D2216

Laboratory:	Analytical Resources, LLC			SDG:	23D0136
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Batch:	BLD0527	Batch Matrix:	Solid	Preparation:	No Prep-Organics

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1803	23D0136-03		04/19/23 14:13	

HOLDING TIME SUMMARY

Analysis: ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1804 23D0136-01	04/05/23 11:45	04/06/23 10:30	04/10/23 14:41	5	28	04/11/23 07:14	6	28	
LDW23-SS1803 23D0136-03	04/05/23 16:05	04/06/23 10:30	04/19/23 14:13	13	28	04/19/23 14:29	14	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 23D0136
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids		0.01	%

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BLD0208
Date:	4/7/2023 14:17
Analyst:	CR
Drying Oven:	15
Analytical Balance:	B139298002

Batch drying time		
Record times as mm/dd/yy hh:mm		
Date/time in oven:	4/12/2023 8:35	
Date/time out:	4/13/2023 6:40	
Elapsed hrs:	22.1	

Oven Temp, C	TS (%) calculated as:
107	Final dry wt (g) = (Dry Wt - Tare Wt)
105	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	107
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23D0136-01	0.7900	11.3500	6.0000	5.21	**49.34%**	No
23D0136-02	0.7900	11.3100	6.0100	5.22	**49.62%**	No
23D0136-03	0.8400	11.5600	5.5900	4.75	**44.31%**	No
23D0136-04	0.7900	12.5800	6.5700	5.78	**49.02%**	No

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BLD0208
Date:	4/7/2023 14:17
Analyst:	CR
Drying Oven:	D15
Analytical Balance:	B13929 8002

Batch drying time

Record times as mm/dd/yy hh:mm			Oven Temp, C
Date/time in oven:	4/12/23	8:35	107
Date/time out:	4/13/23	6:40	105
Elapsed hrs:	0.0		

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	107
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23D0136-01 A	0.79	11.35	6.00			No
23D0136-02 |	0.79	11.31	6.01			No
23D0136-03 |	0.84	11.56	5.59			No
23D0136-04 A	0.79	12.58	6.57			No

T/S + Screens
2 copies